

TEST REPORT

Product Name : MachineMotion Pendant V4
Model Number : CE-TP-024-0001
Contains FCC ID : 2BEA6TPC121
Contains IC : 31870-TPC121

Prepared for : Vantron Technology, Inc.
Address : 48434 Milmont Drive Fremont, California 94538-7324, United States

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2510090185W00104R
Date(s) of Tests : October 9, 2025 to October 31, 2025
Date of issue : October 31, 2025

1 TEST RESULT CERTIFICATION

Applicant : Vantron Technology, Inc.

Address : 48434 Milmont Drive Fremont, California 94538-7324, United States

Manufacturer : Vantron Technology, Inc.

Address : 48434 Milmont Drive Fremont, California 94538-7324, United States

EUT : MachineMotion Pendant V4

Model Name : CE-TP-024-0001

Trademark : Vantron

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart E	PASS
IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021) IC RSS-247 Issue 4 July 24, 2025	PASS

The above equipment was tested by EMTEK (SHENZHEN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.407, IC RSS-247 Issue 4 and IC RSS-GEN, Issue 5.

The test results of this report relate only to the tested sample identified in this report.

Date of Test : October 9, 2025 to October 31, 2025

Prepared by : 
Una Yu/Editor

Reviewer : 
Joe Xia/Supervisor

Approve & Authorized Signer : 
Lisa Wang/Manager

Modified History

Version	Report No.	Revision Date	Summary
Ver.1.0	ENS2510090185W00104R	/	Original Report
Note: This change is to request approval for mobile category specific host product, Antenna Type is FPC antenna, According to the requirements for antenna Change in KDB178919 D01 Permissive Change Policy v06, the antenna types are different and the gain value is greater than the original, Conducted Output Power, Out of Band Emission, Radiated Emission tests were performed to verify RF compliance, and the results of other test items remained unchanged based on the module report.			



TABLE OF CONTENTS

1 TEST RESULT CERTIFICATION	2
2 EUT TECHNICAL DESCRIPTION	5
3 SUMMARY OF TEST RESULT	7
4 TEST METHODOLOGY	8
4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS	8
4.2 MEASUREMENT EQUIPMENT USED	8
4.3 DESCRIPTION OF TEST MODES	9
5 FACILITIES AND ACCREDITATIONS	13
5.1 FACILITIES	13
5.2 EQUIPMENT	13
5.3 LABORATORY ACCREDITATIONS AND LISTINGS	13
6 TEST SYSTEM UNCERTAINTY	14
7 SETUP OF EQUIPMENT UNDER TEST	15
7.1 RADIO FREQUENCY TEST SETUP	15
7.2 RADIO FREQUENCY TEST SETUP	15
7.3 CONDUCTED EMISSION TEST SETUP	18
7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	19
7.5 SUPPORT EQUIPMENT	19
8 TEST REQUIREMENTS	20
8.1 MAXIMUM CONDUCTED OUTPUT POWER	20
8.2 UNDESIRABLE RADIATED SPURIOUS EMISSION	84

2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product:	MachineMotion Pendant V4
Model Number:	CE-TP-024-0001
Sample Number:	2#
Wifi Type:	Wifi 5G with 5150MHz-5250MHz Band Wifi 5G with 5250MHz-5350MHz Band Wifi 5G with 5470MHz-5725MHz Band Wifi 5G with 5725MHz-5850MHz Band
WLAN Supported:	802.11a/n/ac
Data Rate :	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: MCS0-MCS15 802.11ac: MCS0-MCS9
Modulation:	OFDM with BPSK/QPSK/16QAM/64QAM for 802.11a/n OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11ac
Frequency Range:	UNII-1: 5150MHz-5250MHz Band 5180-5240MHz for 802.11a/n(HT20)/ac(VHT20) 5190-5230MHz for 802.11n(HT40)/ac(VHT40) 5210MHz for 802.11ac(VHT80)
	UNII-2A: 5250MHz-5350MHz Band 5260-5320MHz for 802.11a/n(HT20)/ac(VHT20) 5270-5310MHz for 802.11n(HT40)/ac(VHT40) 5290MHz for 802.11ac(VHT80)
	UNII-2C: 5470MHz-5725MHz Band 5500-5700MHz for 802.11a/n(HT20)/ac(VHT20) 5510-5670MHz for 802.11n(HT40)/ac(VHT40) 5530MHz for 802.11ac(VHT80)
	UNII-3 with 5725MHz-5850MHz Band 5745-5825MHz for 802.11a/n(HT20)/ac(VHT20) 5755-5795MHz for 802.11n(HT40)/ac(VHT40) 5775MHz for 802.11ac(VHT80);
Antenna Type:	FPC Antenna
Antenna Gain:	Ant1: 4.3 dBi Ant2: 5.7 dBi (Note: The antenna information is provided by the customers, which will have a certain impact on the test results.)
Power Supply:	DC 24V(from adapter),
FVIN:	V0.03
Temperature Range:	0-40℃

Note: For more details, please refer to the User's manual of the EUT.



3 SUMMARY OF TEST RESULT

FCC Part Clause	IC Part Clause	Test Parameter	Verdict	Remark
15.407 (a)	RSS-247 clause 7.3.2.2 RSS-247 clause 7.3.3.2 RSS-247 clause 7.3.4.3	Maximum Conducted Output Power	PASS	
15.407 (b) 15.209 15.205	RSS-247 clause 7.3.1.3 RSS-247 clause 7.3.2.3 RSS-247 clause 7.3.3.3 RSS-247 clause 7.3.4.4 RSS-Gen 8.9 RSS-Gen 8.10 RSS-Gen 6.13	Radiated Spurious Emission	PASS	
NOTE1:N/A (Not Applicable) NOTE2:According to FCC OET KDB 789033, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.				

RELATED SUBMITTAL(S)/GRANT(S):

This submittal(s) (test report) is intended for **Contains FCC ID:2BEA6TPC121** filing to comply with Section 15.407 of the FCC Part 15, Subpart C Rules.

This submittal(s) (test report) is intended for **Contains IC:31870-TPC121** filing to comply with Section A8 of the IC.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021)

IC RSS-247 Issue 4 July 24, 2025

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

FCC KDB 789033 D2 General UNII Test Procedures New Rules v02r01

4.2 MEASUREMENT EQUIPMENT USED

For Spurious Emissions Test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2025/5/9	1Year
Pre-Amplifier	Lunar EM	LNA30M3G-25	J10100000070	2025/5/9	1Year
Bilog Antenna	Schwarzbeck	VULB9163	661	2025/5/18	2 Year
Horn antenna	Schwarzbeck	BBHA9120D	9120D-1177	2025/5/17	2 Year
Pre-Amplifier	SKET	LNPA_0118G-45	SK2019051801	2025/5/9	1Year
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13	2 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	100967	2025/5/9	1Year
Horn antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13	2 Year
Coaxial Cable	TIMES	NmNm-7-C15702	N/A	2025/5/9	1Year
Coaxial Cable	TIMES	HF290-NMSM-6.5M	N/A	2025/5/9	1Year
Coaxial Cable	TIMES	LMR-240 N-N	N/A	2025/5/9	1Year

For other test items:

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Signal Analyzer	Agilent	N9010A	MY53470879	2025/5/10	1Year
Vector Signal Generator	Agilent	N5182B	MY53050878	2025/5/10	1Year
Analog Signal Generator	Agilent	N5171B	MY53050553	2025/5/10	1Year
RF Control Unit(Power Meter)	Tonscend	JS0806-2	\	2025/5/10	1Year
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10	1Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 54 Mbps; 802.11n(HT20): MCS0; 802.11ac(VHT20): MCS0; 802.11n(HT40): MCS0; 802.11ac(VHT40): MCS0; 802.11ac(VHT80): MCS0;) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

☒ Wifi 5G with U-NII - 1

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220		
40	5200	48	5240		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	48	5240

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	N/A	N/A	46	5230

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	N/A	N/A	N/A	N/A

☒ Wifi 5G with U-NII -2A

Frequency and Channel list 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300		
56	5280	64	5320		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270				
62	5310				

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	56	5280	64	5320

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	N/A	N/A	62	5310

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
58	5290				

☒ Wifi 5G with U-NII -2C

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510	118	5590	134	5670
110	5550	126	5630		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610		

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	120	5600	140	5700

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
102	5510			134	5670

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530				

☒ Wifi 5G with U-NII -3

Frequency and Channel list for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805		

Frequency and Channel list for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795		

Frequency and Channel list for 802.11ac (VHT80):

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

Test Frequency and Channel for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785	165	5825

Test Frequency and channel for 802.11n (HT40), 802.11ac (VHT40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	N/A	N/A	159	5795

Test Frequency and channel for 802.11ac (VHT80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775				

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (Shenzhen) Co., Ltd.

Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : **Accredited by CNAS**
The Certificate Registration Number is L2291.
The Laboratory has been assessed and proved to be in compliance with CNAS-CL01 (identical to ISO/IEC 17025:2017)

Accredited by FCC
Designation Number: CN1204
Test Firm Registration Number: 882943

Accredited by A2LA
The Certificate Number is 4321.01.

Accredited by Industry Canada
The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (SHENZHEN) CO., LTD.
Site Location : Building 69, Majialong Industry Zone,
Nanshan District, Shenzhen, Guangdong, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

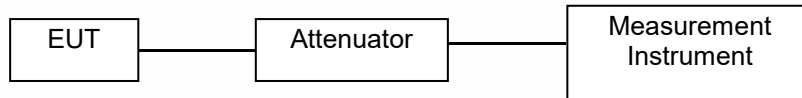
Test Parameter	Measurement Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^{\circ}\text{C}$
Humidity	$\pm 3\%$

Measurement Uncertainty for a level of Confidence of 95%

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP

The WLAN component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Measurements shall be taken, using the following steps, at a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment (see RSS-Gen for applicable versions of ANSI and CISPR standards).

(1) Line the ground plane with absorbers between the transmitter and the receive antenna to minimize reflections. The absorbers used should have a minimum-rated attenuation of 20 dB through the measurement frequency range of interest. The absorbers shall be positioned to replicate the layout used when compliance with the applicable acceptability criterion was achieved, as set forth in the aforementioned standards on site validation.

(2) Set the height of the receive antenna to 1.5 m. The receive antenna must be one that was designed and fabricated to operate over the entire frequency range of interest, for example, an appropriate standard gain horn.

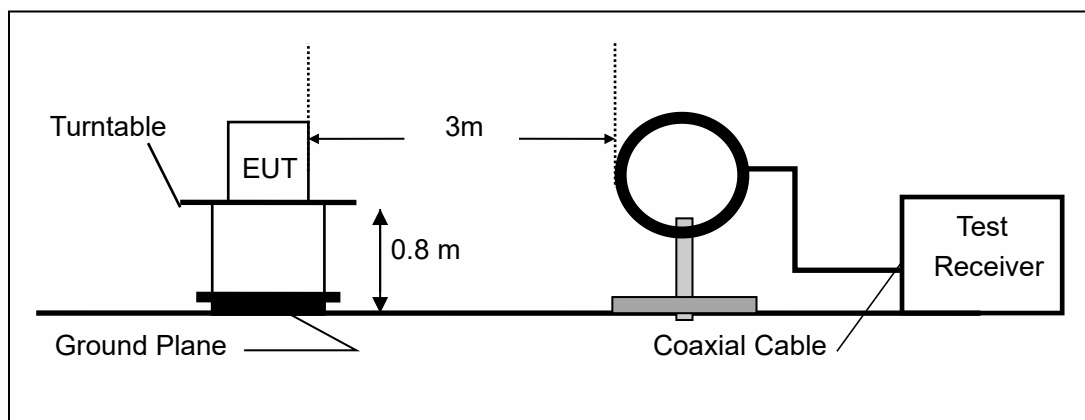
(3) The distance between the receive antenna and the radiating source shall be sufficient in order to ensure far-field conditions.

(4) Mount the transmitter at a height of 1.5 m.

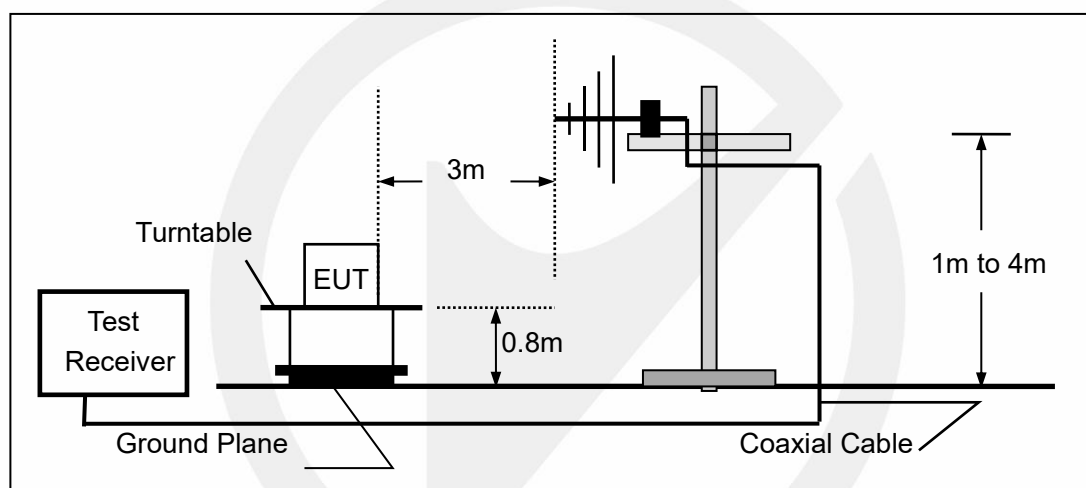
(5) Configure the device under test (DUT) to produce the maximum power spectral density as measured while assessing compliance with Section 6.2.2 (i.e. channel frequency, modulation type and data rate). If the DUT is equipped with a detachable antenna and the antenna is intended for remote installation (i.e. tower-mounted), the DUT may be substituted with a suitable signal generator. The level and frequency settings on the generator shall be set so as to reproduce the maximum power spectral density, measured within a 1 MHz bandwidth, obtained while assessing compliance to Section 6.2.2.

- (6) Position the transmitter or the radiating antenna so that elevation pattern measurements can be taken.
- (7) Find the 0° reference point in the horizontal plane.
- (8) Care should be taken when positioning the receive antenna to avoid cross-polarization. Antennas of known mounting polarization should be assessed with the receive antenna oriented in the same polarity. If the polarization of the transmit antenna is unknown or the transmit antenna can be mounted in either polarization, e.i.r.p. measurements should be performed to find which mounting polarity provides the highest e.i.r.p. value. Testing shall be carried out with the receive antenna and the DUT mounted in each polarity.
- (9) The emission shall be centred on the display of the spectrum analyzer with the following settings:
- If the power spectral density of the DUT was assessed with a peak detector and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a peak detector with a resolution bandwidth and video bandwidth of 1 MHz.
 - If the power spectral density of the DUT was assessed using a sample detector with power averaging and the antenna cannot be detached from the DUT, the spectrum analyzer shall be set to a sample detector, configured to produce 100 power averages and set with a resolution bandwidth, as well as a video bandwidth of 1 MHz.
 - If the antenna can be detached from the DUT, a continuous wave (CW) signal equal to that of the power spectral density measurement may be used, the spectrum analyzer shall be set to peak detector with a resolution bandwidth and video bandwidth of 1 MHz.
- (10) Rotate the turntable 360° recording the field strength at each step. Throughout the main beam of the antenna, the step size shall be kept to a maximum of 1°.
- Once outside the main beam of the antenna, the maximum step size shall be as follows, when compared to the requirements of Section 6.2.2:
- Between 0° and 8°, maximum step size of 2°;
 - Between 8° and 40°, maximum step size of 4°;
 - Between 40° and 45°, maximum step size of 1°;
 - Between 45° and 90°, maximum step size of 5°.
- Once the mask reaches 90°, the mask will be inverted and the step size will follow in the same manner as above.
- For the purpose of this procedure, the main beam of the antenna is defined as the 3 dB beamwidth.
- (11) Convert the measured field strength values in terms of e.i.r.p. density (dBW/1 MHz) using the following equation:
- $$\text{e.i.r.p. density (dBW/MHz)} = 10 \log((E \cdot r)^2 / 30)$$
- E = field strength in V/m
r = measurement distance in metres
- (12) Plot the results against the emission mask with reference to the horizontal plane.
- (13) Using the plot, the 0° can be rotated to determine the worst-case installation tilt angle.
- (14) Testing shall be performed using the highest gain antenna for every antenna type, if applicable.
- (15) Antenna type(s), antenna model number(s), and worst-case tilt angle(s) necessary to remain compliant with the elevation mask requirement set forth in Section 6.2.2(3) of RSS-247 shall be clearly indicated in the user manual.
- The following figure is an example of a polar elevation mask measured using the Method 1 reference to dBμV/m at 3 m.

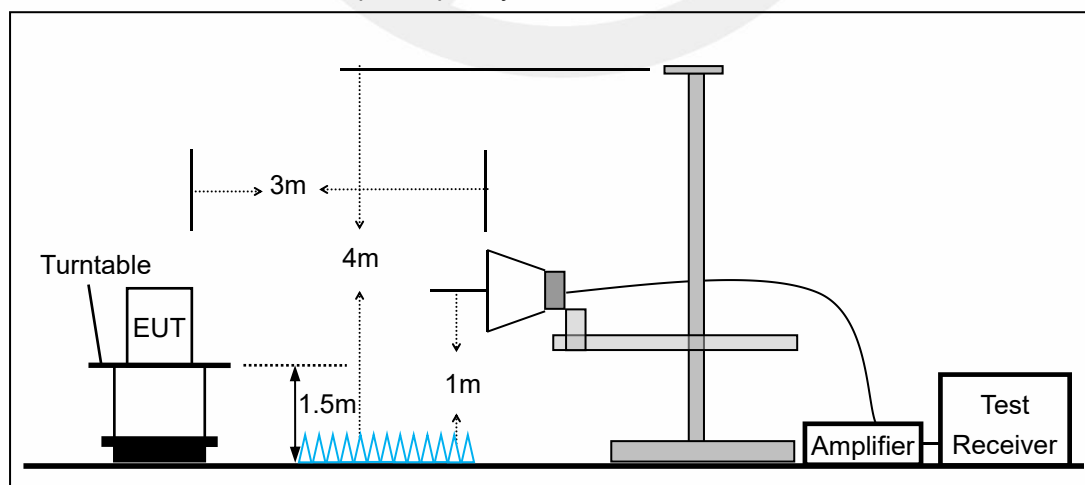
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

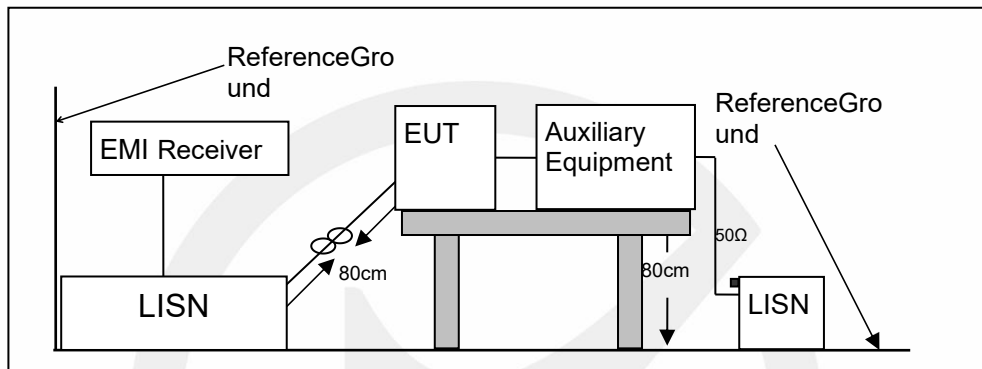


7.3 CONDUCTED EMISSION TEST SETUP

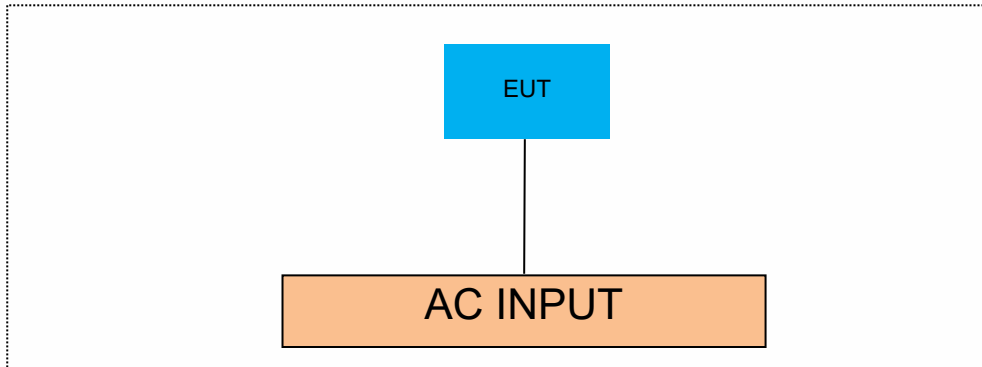
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

- 1.All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2.Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 TEST REQUIREMENTS

8.1 MAXIMUM CONDUCTED OUTPUT POWER

8.1.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS-247

8.1.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the

U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.1.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.1.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	Verdict
11A	Ant1	5180	12.37	73.12	1.36	13.73	≤23.98	4.30	18.03	PASS
11A	Ant2	5180	12.10	72.73	1.38	13.48	≤23.98	5.70	19.18	PASS
11A	Ant1	5200	12.89	72.73	1.38	14.27	≤23.98	4.30	18.57	PASS
11A	Ant2	5200	12.55	73.12	1.36	13.91	≤23.98	5.70	19.61	PASS
11A	Ant1	5240	13.77	73.12	1.36	15.13	≤23.98	4.30	19.43	PASS
11A	Ant2	5240	13.19	72.73	1.38	14.57	≤23.98	5.70	20.27	PASS
11A	Ant1	5260	13.38	72.73	1.38	14.76	≤23.75	4.30	19.06	PASS
11A	Ant2	5260	12.12	72.73	1.38	13.50	≤23.68	5.70	19.20	PASS
11A	Ant1	5280	13.49	72.73	1.38	14.87	≤23.74	4.30	19.17	PASS
11A	Ant2	5280	12.20	72.73	1.38	13.58	≤23.75	5.70	19.28	PASS
11A	Ant1	5320	13.23	72.73	1.38	14.61	≤23.75	4.30	18.91	PASS
11A	Ant2	5320	12.01	73.12	1.36	13.37	≤23.75	5.70	19.07	PASS
11A	Ant1	5500	14.66	72.73	1.38	16.04	≤23.98	4.30	20.34	PASS
11A	Ant2	5500	14.05	72.73	1.38	15.43	≤23.88	5.70	21.13	PASS
11A	Ant1	5580	15.31	72.73	1.38	16.69	≤23.98	4.30	20.99	PASS
11A	Ant2	5580	14.35	72.73	1.38	15.73	≤23.73	5.70	21.43	PASS
11A	Ant1	5700	13.71	72.73	1.38	15.09	≤23.65	4.30	19.39	PASS
11A	Ant2	5700	12.76	72.73	1.38	14.14	≤23.76	5.70	19.84	PASS
11A	Ant1	5745	14.12	72.73	1.38	15.50	≤30.00	4.30	19.80	PASS
11A	Ant2	5745	12.30	72.73	1.38	13.68	≤30.00	5.70	19.38	PASS
11A	Ant1	5785	14.74	72.73	1.38	16.12	≤30.00	4.30	20.42	PASS
11A	Ant2	5785	12.93	73.12	1.36	14.29	≤30.00	5.70	19.99	PASS
11A	Ant1	5825	15.28	73.12	1.36	16.64	≤30.00	4.30	20.94	PASS
11A	Ant2	5825	13.51	72.73	1.38	14.89	≤30.00	5.70	20.59	PASS
11N20MIMO	Ant1	5180	7.35	71.35	1.47	8.82	≤23.98	4.30	13.12	PASS
11N20MIMO	Ant2	5180	6.73	71.75	1.44	8.17	≤23.98	5.70	13.87	PASS
11N20MIMO	total	5180	---	---	---	11.52	≤23.98	5.70	17.22	PASS
11N20MIMO	Ant1	5200	7.60	71.35	1.47	9.07	≤23.98	4.30	13.37	PASS
11N20MIMO	Ant2	5200	6.96	71.35	1.47	8.43	≤23.98	5.70	14.13	PASS
11N20MIMO	total	5200	---	---	---	11.77	≤23.98	5.70	17.47	PASS
11N20MIMO	Ant1	5240	8.40	71.35	1.47	9.87	≤23.98	4.30	14.17	PASS
11N20MIMO	Ant2	5240	7.53	71.35	1.47	9.00	≤23.98	5.70	14.70	PASS
11N20MIMO	total	5240	---	---	---	12.47	≤23.98	5.70	18.17	PASS
11N20MIMO	Ant1	5260	7.87	71.35	1.47	9.34	≤23.97	4.30	13.64	PASS
11N20MIMO	Ant2	5260	6.63	71.35	1.47	8.10	≤23.97	5.70	13.80	PASS
11N20MIMO	total	5260	---	---	---	11.77	≤23.98	5.70	17.47	PASS
11N20MIMO	Ant1	5280	7.94	71.35	1.47	9.41	≤23.98	4.30	13.71	PASS
11N20MIMO	Ant2	5280	6.69	71.35	1.47	8.16	≤23.96	5.70	13.86	PASS
11N20MIMO	total	5280	---	---	---	11.84	≤23.98	5.70	17.54	PASS
11N20MIMO	Ant1	5320	7.65	71.35	1.47	9.12	≤23.97	4.30	13.42	PASS
11N20MIMO	Ant2	5320	6.51	71.35	1.47	7.98	≤23.97	5.70	13.68	PASS
11N20MIMO	total	5320	---	---	---	11.60	≤23.98	5.70	17.30	PASS
11N20MIMO	Ant1	5500	9.36	71.75	1.44	10.80	≤23.98	4.30	15.10	PASS
11N20MIMO	Ant2	5500	8.39	71.35	1.47	9.86	≤23.98	5.70	15.56	PASS
11N20MIMO	total	5500	---	---	---	13.37	≤23.98	5.70	19.07	PASS
11N20MIMO	Ant1	5580	10.08	71.35	1.47	11.55	≤23.98	4.30	15.85	PASS
11N20MIMO	Ant2	5580	8.69	71.35	1.47	10.16	≤23.98	5.70	15.86	PASS
11N20MIMO	total	5580	---	---	---	13.92	≤23.98	5.70	19.62	PASS
11N20MIMO	Ant1	5700	7.96	71.75	1.44	9.40	≤23.98	4.30	13.70	PASS
11N20MIMO	Ant2	5700	7.21	71.35	1.47	8.68	≤23.98	5.70	14.38	PASS
11N20MIMO	total	5700	---	---	---	12.07	≤23.98	5.70	17.77	PASS
11N20MIMO	Ant1	5745	8.67	71.75	1.44	10.11	≤30.00	4.30	14.41	PASS
11N20MIMO	Ant2	5745	6.59	71.75	1.44	8.03	≤30.00	5.70	13.73	PASS
11N20MIMO	total	5745	---	---	---	12.20	≤30.00	5.70	17.90	PASS
11N20MIMO	Ant1	5785	9.27	71.35	1.47	10.74	≤30.00	4.30	15.04	PASS
11N20MIMO	Ant2	5785	7.24	71.75	1.44	8.68	≤30.00	5.70	14.38	PASS
11N20MIMO	total	5785	---	---	---	12.84	≤30.00	5.70	18.54	PASS
11N20MIMO	Ant1	5825	9.74	71.35	1.47	11.21	≤30.00	4.30	15.51	PASS

11N20MIMO	Ant2	5825	7.82	71.75	1.44	9.26	≤30.00	5.70	14.96	PASS
11N20MIMO	total	5825	---	---	---	13.35	≤30.00	5.70	19.05	PASS
11N40MIMO	Ant1	5190	6.12	55.75	2.54	8.66	≤23.98	4.30	12.96	PASS
11N40MIMO	Ant2	5190	5.59	55.75	2.54	8.13	≤23.98	5.70	13.83	PASS
11N40MIMO	total	5190	---	---	---	11.41	≤23.98	5.70	17.11	PASS
11N40MIMO	Ant1	5230	7.22	55.26	2.58	9.80	≤23.98	4.30	14.10	PASS
11N40MIMO	Ant2	5230	6.35	55.26	2.58	8.93	≤23.98	5.70	14.63	PASS
11N40MIMO	total	5230	---	---	---	12.40	≤23.98	5.70	18.10	PASS
11N40MIMO	Ant1	5270	6.96	55.26	2.58	9.54	≤23.98	4.30	13.84	PASS
11N40MIMO	Ant2	5270	5.70	55.26	2.58	8.28	≤23.98	5.70	13.98	PASS
11N40MIMO	total	5270	---	---	---	11.97	≤23.98	5.70	17.67	PASS
11N40MIMO	Ant1	5310	6.64	55.26	2.58	9.22	≤23.98	4.30	13.52	PASS
11N40MIMO	Ant2	5310	5.48	55.26	2.58	8.06	≤23.98	5.70	13.76	PASS
11N40MIMO	total	5310	---	---	---	11.69	≤23.98	5.70	17.39	PASS
11N40MIMO	Ant1	5510	8.60	55.26	2.58	11.18	≤23.98	4.30	15.48	PASS
11N40MIMO	Ant2	5510	7.56	55.75	2.54	10.10	≤23.98	5.70	15.80	PASS
11N40MIMO	total	5510	---	---	---	13.68	≤23.98	5.70	19.38	PASS
11N40MIMO	Ant1	5550	9.04	55.26	2.58	11.62	≤23.98	4.30	15.92	PASS
11N40MIMO	Ant2	5550	7.75	55.26	2.58	10.33	≤23.98	5.70	16.03	PASS
11N40MIMO	total	5550	---	---	---	14.03	≤23.98	5.70	19.73	PASS
11N40MIMO	Ant1	5670	7.38	55.75	2.54	9.92	≤23.98	4.30	14.22	PASS
11N40MIMO	Ant2	5670	6.53	55.75	2.54	9.07	≤23.98	5.70	14.77	PASS
11N40MIMO	total	5670	---	---	---	12.53	≤23.98	5.70	18.23	PASS
11N40MIMO	Ant1	5755	7.77	55.26	2.58	10.35	≤30.00	4.30	14.65	PASS
11N40MIMO	Ant2	5755	5.70	55.75	2.54	8.24	≤30.00	5.70	13.94	PASS
11N40MIMO	total	5755	---	---	---	12.43	≤30.00	5.70	18.13	PASS
11N40MIMO	Ant1	5795	8.31	55.26	2.58	10.89	≤30.00	4.30	15.19	PASS
11N40MIMO	Ant2	5795	6.33	55.75	2.54	8.87	≤30.00	5.70	14.57	PASS
11N40MIMO	total	5795	---	---	---	13.01	≤30.00	5.70	18.71	PASS
11AC20MIMO	Ant1	5180	6.90	71.35	1.47	8.37	≤23.98	4.30	12.67	PASS
11AC20MIMO	Ant2	5180	6.35	71.91	1.43	7.78	≤23.98	5.70	13.48	PASS
11AC20MIMO	total	5180	---	---	---	11.10	≤23.98	5.70	16.80	PASS
11AC20MIMO	Ant1	5200	7.17	71.35	1.47	8.64	≤23.98	4.30	12.94	PASS
11AC20MIMO	Ant2	5200	6.57	71.35	1.47	8.04	≤23.98	5.70	13.74	PASS
11AC20MIMO	total	5200	---	---	---	11.36	≤23.98	5.70	17.06	PASS
11AC20MIMO	Ant1	5240	7.94	71.91	1.43	9.37	≤23.98	4.30	13.67	PASS
11AC20MIMO	Ant2	5240	7.08	71.91	1.43	8.51	≤23.98	5.70	14.21	PASS
11AC20MIMO	total	5240	---	---	---	11.97	≤23.98	5.70	17.67	PASS
11AC20MIMO	Ant1	5260	7.38	71.91	1.43	8.81	≤23.98	4.30	13.11	PASS
11AC20MIMO	Ant2	5260	6.13	71.91	1.43	7.56	≤23.96	5.70	13.26	PASS
11AC20MIMO	total	5260	---	---	---	11.24	≤23.98	5.70	16.94	PASS
11AC20MIMO	Ant1	5280	7.46	71.35	1.47	8.93	≤23.98	4.30	13.23	PASS
11AC20MIMO	Ant2	5280	6.20	71.91	1.43	7.63	≤23.97	5.70	13.33	PASS
11AC20MIMO	total	5280	---	---	---	11.34	≤23.98	5.70	17.04	PASS
11AC20MIMO	Ant1	5320	7.15	71.35	1.47	8.62	≤23.97	4.30	12.92	PASS
11AC20MIMO	Ant2	5320	6.00	71.75	1.44	7.44	≤23.98	5.70	13.14	PASS
11AC20MIMO	total	5320	---	---	---	11.08	≤23.98	5.70	16.78	PASS
11AC20MIMO	Ant1	5500	8.82	71.91	1.43	10.25	≤23.98	4.30	14.55	PASS
11AC20MIMO	Ant2	5500	7.87	71.91	1.43	9.30	≤23.96	5.70	15.00	PASS
11AC20MIMO	total	5500	---	---	---	12.81	≤23.98	5.70	18.51	PASS
11AC20MIMO	Ant1	5580	9.55	71.35	1.47	11.02	≤23.98	4.30	15.32	PASS
11AC20MIMO	Ant2	5580	8.19	71.75	1.44	9.63	≤23.95	5.70	15.33	PASS
11AC20MIMO	total	5580	---	---	---	13.39	≤23.98	5.70	19.09	PASS
11AC20MIMO	Ant1	5700	7.47	71.35	1.47	8.94	≤23.97	4.30	13.24	PASS
11AC20MIMO	Ant2	5700	6.73	71.35	1.47	8.20	≤23.96	5.70	13.90	PASS
11AC20MIMO	total	5700	---	---	---	11.60	≤23.98	5.70	17.30	PASS
11AC20MIMO	Ant1	5745	8.14	71.91	1.43	9.57	≤30.00	4.30	13.87	PASS
11AC20MIMO	Ant2	5745	6.11	71.91	1.43	7.54	≤30.00	5.70	13.24	PASS
11AC20MIMO	total	5745	---	---	---	11.68	≤30.00	5.70	17.38	PASS
11AC20MIMO	Ant1	5785	8.81	71.91	1.43	10.24	≤30.00	4.30	14.54	PASS
11AC20MIMO	Ant2	5785	6.80	71.35	1.47	8.27	≤30.00	5.70	13.97	PASS

11AC20MIMO	total	5785	---	---	---	12.38	≤30.00	5.70	18.08	PASS
11AC20MIMO	Ant1	5825	9.27	71.35	1.47	10.74	≤30.00	4.30	15.04	PASS
11AC20MIMO	Ant2	5825	7.35	71.91	1.43	8.78	≤30.00	5.70	14.48	PASS
11AC20MIMO	total	5825	---	---	---	12.88	≤30.00	5.70	18.58	PASS
11AC40MIMO	Ant1	5190	5.67	55.26	2.58	8.25	≤23.98	4.30	12.55	PASS
11AC40MIMO	Ant2	5190	5.16	55.26	2.58	7.74	≤23.98	5.70	13.44	PASS
11AC40MIMO	total	5190	---	---	---	11.01	≤23.98	5.70	16.71	PASS
11AC40MIMO	Ant1	5230	6.72	55.26	2.58	9.30	≤23.98	4.30	13.60	PASS
11AC40MIMO	Ant2	5230	5.90	55.26	2.58	8.48	≤23.98	5.70	14.18	PASS
11AC40MIMO	total	5230	---	---	---	11.92	≤23.98	5.70	17.62	PASS
11AC40MIMO	Ant1	5270	6.49	55.26	2.58	9.07	≤23.98	4.30	13.37	PASS
11AC40MIMO	Ant2	5270	5.24	55.26	2.58	7.82	≤23.98	5.70	13.52	PASS
11AC40MIMO	total	5270	---	---	---	11.50	≤23.98	5.70	17.20	PASS
11AC40MIMO	Ant1	5310	6.19	56.14	2.51	8.70	≤23.98	4.30	13.00	PASS
11AC40MIMO	Ant2	5310	5.01	55.26	2.58	7.59	≤23.98	5.70	13.29	PASS
11AC40MIMO	total	5310	---	---	---	11.19	≤23.98	5.70	16.89	PASS
11AC40MIMO	Ant1	5510	8.10	55.26	2.58	10.68	≤23.98	4.30	14.98	PASS
11AC40MIMO	Ant2	5510	7.11	55.26	2.58	9.69	≤23.98	5.70	15.39	PASS
11AC40MIMO	total	5510	---	---	---	13.22	≤23.98	5.70	18.92	PASS
11AC40MIMO	Ant1	5550	8.56	55.26	2.58	11.14	≤23.98	4.30	15.44	PASS
11AC40MIMO	Ant2	5550	7.33	55.26	2.58	9.91	≤23.98	5.70	15.61	PASS
11AC40MIMO	total	5550	---	---	---	13.58	≤23.98	5.70	19.28	PASS
11AC40MIMO	Ant1	5670	6.90	55.26	2.58	9.48	≤23.98	4.30	13.78	PASS
11AC40MIMO	Ant2	5670	6.13	55.26	2.58	8.71	≤23.98	5.70	14.41	PASS
11AC40MIMO	total	5670	---	---	---	12.12	≤23.98	5.70	17.82	PASS
11AC40MIMO	Ant1	5755	7.33	56.14	2.51	9.84	≤30.00	4.30	14.14	PASS
11AC40MIMO	Ant2	5755	5.31	55.26	2.58	7.89	≤30.00	5.70	13.59	PASS
11AC40MIMO	total	5755	---	---	---	11.98	≤30.00	5.70	17.68	PASS
11AC40MIMO	Ant1	5795	7.84	55.26	2.58	10.42	≤30.00	4.30	14.72	PASS
11AC40MIMO	Ant2	5795	5.90	55.26	2.58	8.48	≤30.00	5.70	14.18	PASS
11AC40MIMO	total	5795	---	---	---	12.57	≤30.00	5.70	18.27	PASS
11AC80MIMO	Ant1	5210	4.88	37.80	4.23	9.11	≤23.98	4.30	13.41	PASS
11AC80MIMO	Ant2	5210	4.21	37.80	4.23	8.44	≤23.98	5.70	14.14	PASS
11AC80MIMO	total	5210	---	---	---	11.80	≤23.98	5.70	17.50	PASS
11AC80MIMO	Ant1	5290	5.13	37.80	4.23	9.36	≤23.98	4.30	13.66	PASS
11AC80MIMO	Ant2	5290	3.77	37.80	4.23	8.00	≤23.98	5.70	13.70	PASS
11AC80MIMO	total	5290	---	---	---	11.74	≤23.98	5.70	17.44	PASS
11AC80MIMO	Ant1	5530	7.34	37.80	4.23	11.57	≤23.98	4.30	15.87	PASS
11AC80MIMO	Ant2	5530	6.13	37.80	4.23	10.36	≤23.98	5.70	16.06	PASS
11AC80MIMO	total	5530	---	---	---	14.02	≤23.98	5.70	19.72	PASS
11AC80MIMO	Ant1	5610	6.55	37.80	4.23	10.78	≤23.98	4.30	15.08	PASS
11AC80MIMO	Ant2	5610	5.62	37.80	4.23	9.85	≤23.98	5.70	15.55	PASS
11AC80MIMO	total	5610	---	---	---	13.35	≤23.98	5.70	19.05	PASS
11AC80MIMO	Ant1	5775	6.58	37.80	4.23	10.81	≤30.00	4.30	15.11	PASS
11AC80MIMO	Ant2	5775	4.45	37.80	4.23	8.68	≤30.00	5.70	14.38	PASS
11AC80MIMO	total	5775	---	---	---	12.88	≤30.00	5.70	18.58	PASS

Note: The Duty Cycle Factor is compensated in the graph.

