

TEST REPORT

Product Name : Smart Terminal
Model Number : NG-TC3
FCC ID : 2AJ9T-10308

Prepared for : ZKTECO CO., LTD.
Address : No.32, Pingshan Industrial Avenue, Tangxia Town,
Dongguan City, Guangdong Province, China 523728

Prepared by : EMTEK (SHENZHEN) CO., LTD.
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Report Number : ENS2505300373W00505R
Date(s) of Tests : June 1, 2025 to July 29, 2025
Date of issue : August 1, 2025

1 TEST RESULT CERTIFICATION

Applicant : ZKTECO CO., LTD.
 Address : No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City, Guangdong Province, China 523728
 Manufacturer : ZKTECO CO., LTD.
 Address : No.32, Pingshan Industrial Avenue, Tangxia Town, Dongguan City, Guangdong Province, China 523728
 EUT : Smart Terminal
 Model Name : NG-TC3
 Trademark : 

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J	PASS
FCC 47 CFR Part 15, Subpart E	

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 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the above table standards requirement.

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

Date of Test : _____ June 1, 2025 to July 29, 2025

Prepared by : _____ 
 Una Yu/Editor

Reviewer : _____ 
 Joe Xia /Supervisor

Approve & Authorized Signer : _____ 
 Lisa Wang/Manager

Modified History

Version	Report No.	Revision Date	Summary
V1.0	ENS2505300373W00505R	/	Original Report



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2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product	Smart Terminal
Model Number	NG-TC3
Sample number	2#
Wifi Type	UNII-1: 5150MHz-5250MHz Band UNII-2A: 5250MHz-5350MHz Band UNII-2C: 5470MHz-5725MHz Band UNII-3: 5725MHz-5850MHz Band
WLAN Supported	IEEE 802.11a IEEE 802.11n(20MHz channel bandwidth) IEEE 802.11n(40MHz channel bandwidth) IEEE 802.11ac(20MHz channel bandwidth) IEEE 802.11ac(40MHz channel bandwidth) IEEE 802.11ac(80MHz channel bandwidth)
Modulation	OFDM/OFDMA
Frequency Range:	5150MHz-5250MHz Band: 5180-5240MHz for 802.11a 5180-5240MHz for 802.11n(20) 5190-5230MHz for 802.11n(40) 5180-5240MHz for 802.11ac(20) 5190-5230MHz for 802.11ac(40) 5210MHz for 802.11ac(80)
	5250MHz-5350MHz Band: 5260-5320MHz for 802.11a 5260-5320MHz for 802.11n(20) 5270-5310MHz for 802.11n(40) 5260-5320MHz for 802.11ac(20) 5270-5310MHz for 802.11ac(40) 5290MHz for 802.11ac(80)
	5470MHz-5725MHz Band: 5500-5700MHz for 802.11a 5500-5700MHz for 802.11n(20) 5510-5670MHz for 802.11n(40) 5500-5700MHz for 802.11ac(20) 5510-5670MHz for 802.11ac(40) 5530-5610MHz for 802.11ac(80)
	5725MHz-5850MHz Band: 5745-5825MHz for 802.11a 5745-5825MHz for 802.11n(20) 5755-5795MHz for 802.11n(40) 5745-5825MHz for 802.11ac(20)

	5755-5795MHz for 802.11ac(40) 5775MHz for 802.11ac(80)	
TPC Function	<input type="checkbox"/> Applicable	<input checked="" type="checkbox"/> Not Applicable
Antenna Type	FPC Antenna	
Antenna Gain	Ant1:3.82 dBi Ant2:4.22 dBi Note: The antenna information provided by the manufacturer will have a certain impact on the test results.	
Power Supply	DC 5V from adapter	
Adapter	MODEL: ADS-10LA-06 05010EPCU ADS-10LA-06 05010EPC INPUT: AC100-240V~50Hz/60Hz,0.3A max OUTPUT: DC5.0V,2.0A	
Temperature Range	0°C ~ +45°C	

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

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.407 (a)	99% , 6dB and 26dB Bandwidth	PASS	
15.407 (e)			
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (a)	Peak Power Spectral Density	PASS	
15.407 (b)	Radiated Spurious Emission	PASS	
15.407 (b)(6)			
15.207	Power Line Conducted Emission	PASS	
15.407(a)			
15.203	Antenna Application	PASS	
NOTE1: N/A (Not Applicable)			
Remark: The test method refers to KDB 789033 and FCC 47 CFR Part 2, Subpart J			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2AJ9T-10308 filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules.

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 15, Subpart E

4.2 MEASUREMENT EQUIPMENT USED

4.2.1 Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.
EMI Test Receiver	Rohde & Schwarz	ESCI	101045	2025/5/9
AMN	Schwarzbeck	NNLK 8129	8129203	2025/5/9
Pulse Limiter	Schwarzbeck	VTSD 9561 F-B	00955	2025/5/9
High Voltage Probe	SCHWARZBECK	TK9422	9422-130	2025/5/9
AMN	Rohde & Schwarz	ESH3-Z5	100191	2025/5/9

4.2.2 Radiated Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.
EMI Test Receiver	Rohde & Schwarz	ESU 26	100154	2025/5/9
Pre-Amplifier	HP	8447F	2944A07999	2025/5/9
Bilog Antenna	Schwarzbeck	VULB9163	141	2024/6/15
Loop Antenna	Schwarzbeck	FMZB1519	1519-012	2025/5/13
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1177	2025/5/17
Horn Antenna	Schwarzbeck	BBHA9170	9170-399	2025/5/13
Cable	Schwarzbeck	AK9513	ACRX1	2025/5/9
Cable	Rosenberger	N/A	FP2RX2	2025/5/9
Cable	Schwarzbeck	AK9513	CRPX1	2025/5/9
Cable	Schwarzbeck	AK9513	CRRX2	2025/5/9

4.2.3 Radio Frequency Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.
Signal Analyzer	Agilent	N9010A	MY53470879	2025/5/10
Vector Signal Generator	Agilent	N5182B	MY53050878	2025/5/10
Analog Signal Generator	Agilent	N5171B	MY53050553	2025/5/10
RF Control Unit(Power Meter)	Tonscend	JS0806-2	\	2025/5/10
Temperature&Humidity Chamber	ESPEC	EL-02KA	12107166	2025/5/10

Remark: Each piece of equipment is scheduled for calibration once a year.

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.

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 5150-5250MHz

Frequency and Channels list for 802.11a/n(20)/ac(20):

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

Frequency and Channels list for 802.11n (40)/ac(40):

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

Frequency and Channel list for 802.11ac(80):

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

Test Frequency and Channels for 802.11a/n(20)/ac(20):

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

Test Frequency and channels for 802.11n (40)/ac(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	-	-	46	5230

Test Frequency and channels for 802.11ac(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	-	-	-	-

WIFI 5G with 5250-5350MHz

Frequency and Channels list for 802.11a/n(20)/ac(20):

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

Frequency and Channels list for 802.11n (40)/ac(40):

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

Frequency and Channels list for 802.11ac(80):

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

Test Frequency and Channels for 802.11a/n(20)/ac(20):

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

Test Frequency and channels for 802.11n (40)/ac(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
54	5270	-	-	62	5310

Test Frequency and channels for 802.11ac(80):

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

WIFI 5G with 5470-5725MHz

Frequency and Channels list for 802.11a/n(20)/ac(20):

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 Channels list for 802.11n(40)/ac(40):

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

Frequency and Channels list for 802.11ac(80):

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

Test Frequency and Channels for 802.11a/n(20)/ac(20):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	116	5580	140	5700

Test Frequency and channels for 802.11n (40)/ac(40):

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

Test Frequency and channels for 802.11ac(80):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
106	5530	122	5610	-	-

Wifi 5G with 5725MHz-5850MHz

Frequency and Channels list for 802.11a/n(20)/802.11ac(20):

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

Frequency and Channels list for 802.11n(40)/ac(40):

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

Frequency and Channels list for 802.11ac(80):

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

Test Frequency and Channels for 802.11a/n(20)/ac(20):

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

Test Frequency and channels for 802.11n(40)/ac(40):

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	-	-	159	5795

Test Frequency and channels for 802.11ac(80):

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 Building 69, Majialong Industry Zone District, Nanshan District, Shenzhen, China. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

5.2 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:

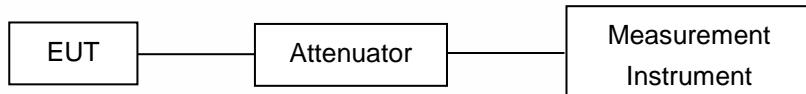
Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0 \text{dB}$
Conducted Emissions Test	$\pm 2.0 \text{dB}$
Radiated Emission Test	$\pm 2.0 \text{dB}$
Power Density	$\pm 2.0 \text{dB}$
Occupied Bandwidth Test	$\pm 1.0 \text{dB}$
Band Edge Test	$\pm 3 \text{dB}$
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 port(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 C63.10-2013 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.

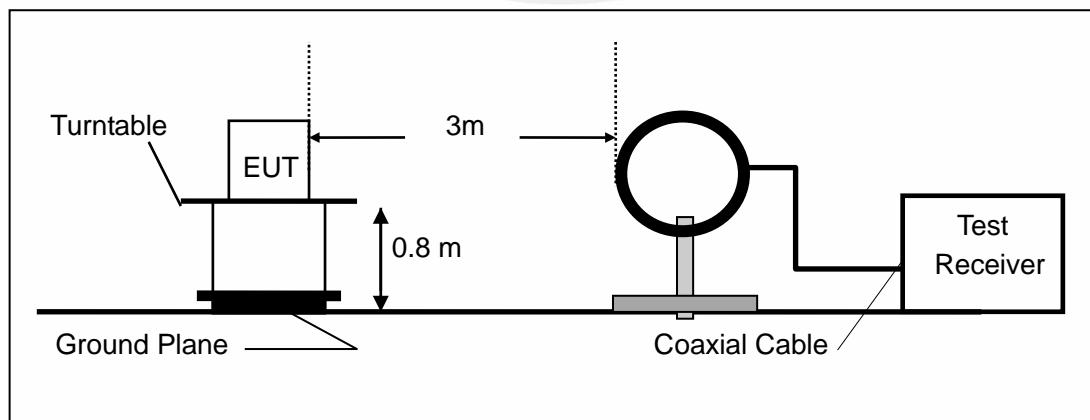
Above 30MHz:

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).

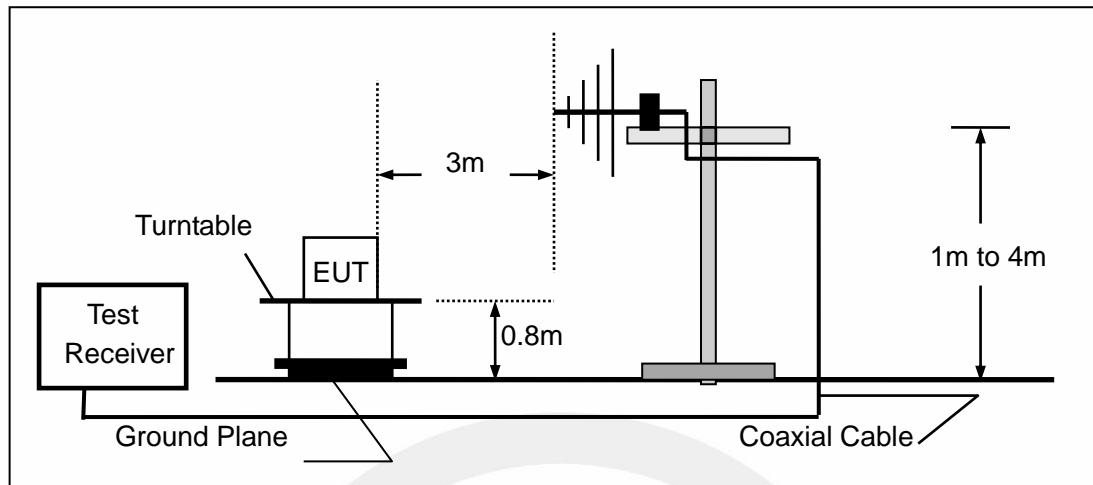
Above 1GHz:

(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).

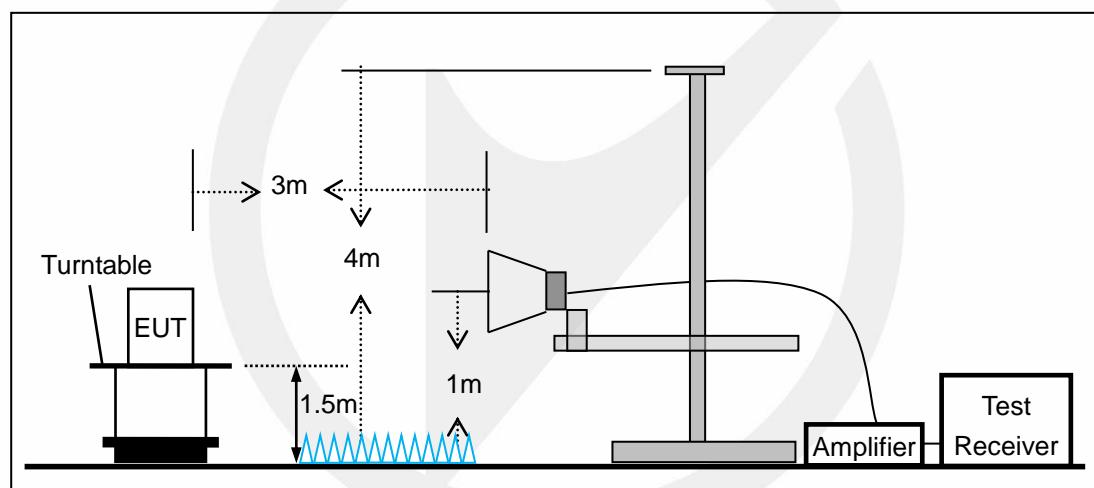
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



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

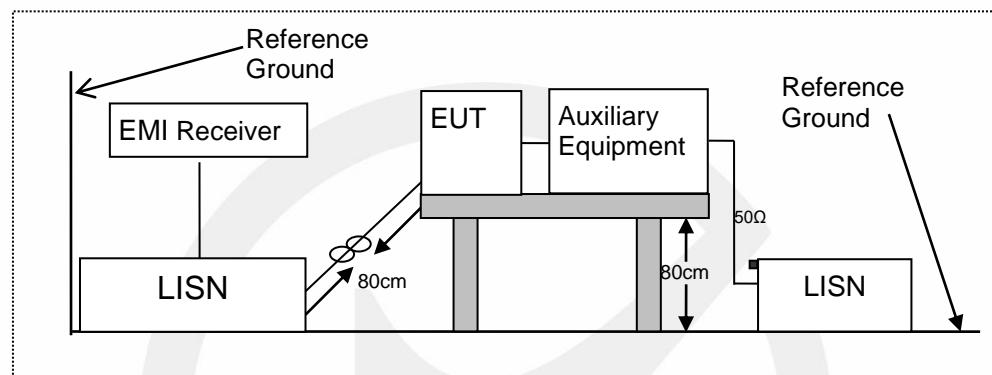


7.3 CONDUCTED EMISSION TEST SETUP

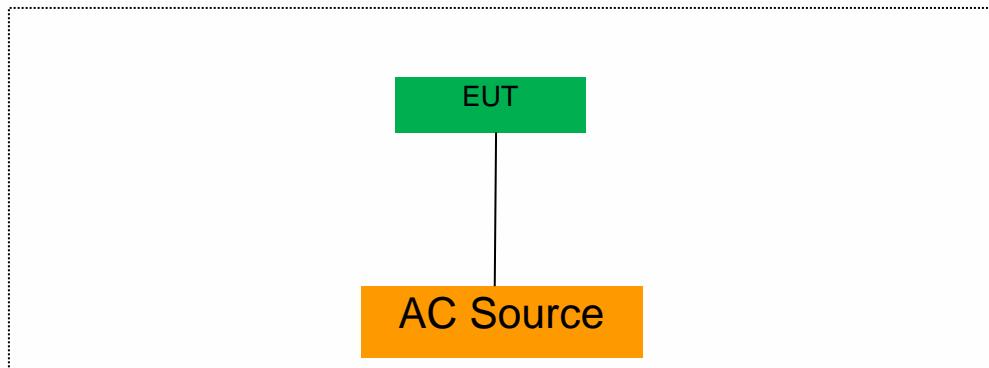
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All 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 C63.10-2013 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 BANDWIDTH MEASUREMENT

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 FCC Part 15.407(e) for UNII Band III
According to 789033 D02 Section II(C)
According to 789033 D02 Section II(D)

8.1.2 Conformance Limit

(1) For the band 5.15-5.25 GHz.
(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, 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. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density 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.

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

8.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.1.4 Test Procedure

According to 789033 D02 v02r01 section C&D, the following is the measurement procedure.

1. Emission Bandwidth (EBW)

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz

Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.

g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described above.

D. 99 Percent Occupied Bandwidth

The 99-percent occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5 % of the total mean power of the given emission. Measurement of the 99-percent occupied bandwidth is required only as a condition for using the optional band-edge measurement techniques described in section II.G.3.d). Measurements of 99-percent occupied bandwidth may also optionally be used in lieu of the EBW to 789033 D02 v01r02 General UNII Test Procedures New Rules v01 define the minimum frequency range over which the spectrum is integrated when measuring maximum conducted output power as described in section II.E. However, the EBW must be measured to determine bandwidth dependent limits on maximum conducted output power in accordance with 15.407(a).

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW $\geq 3 \cdot$ RBW
5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

8.1.5 Test Results

Emission Bandwidth

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	26.720	5166.800	5193.520	---	---
11A	Ant2	5180	24.600	5169.400	5194.000	---	---
11A	Ant1	5200	21.160	5190.360	5211.520	---	---
11A	Ant2	5200	31.080	5186.400	5217.480	---	---
11A	Ant1	5240	25.800	5227.960	5253.760	---	---
11A	Ant2	5240	35.040	5223.400	5258.440	---	---
11A	Ant1	5260	27.560	5247.400	5274.960	---	---
11A	Ant2	5260	33.040	5245.720	5278.760	---	---
11A	Ant1	5280	23.200	5269.640	5292.840	---	---
11A	Ant2	5280	32.120	5265.760	5297.880	---	---
11A	Ant1	5320	23.600	5309.880	5333.480	---	---
11A	Ant2	5320	36.880	5301.720	5338.600	---	---
11A	Ant1	5500	18.400	5490.880	5509.280	---	---
11A	Ant2	5500	18.600	5490.720	5509.320	---	---
11A	Ant1	5580	18.520	5570.840	5589.360	---	---
11A	Ant2	5580	18.480	5570.720	5589.200	---	---
11A	Ant1	5700	18.560	5690.640	5709.200	---	---
11A	Ant2	5700	19.880	5690.800	5710.680	---	---
11A	Ant1	5745	18.320	5735.760	5754.080	---	---
11A	Ant2	5745	24.160	5733.840	5758.000	---	---
11A	Ant1	5785	18.600	5775.720	5794.320	---	---
11A	Ant2	5785	20.320	5775.560	5795.880	---	---
11A	Ant1	5825	18.640	5815.640	5834.280	---	---
11A	Ant2	5825	18.880	5815.520	5834.400	---	---
11N20MIMO	Ant1	5180	19.360	5170.360	5189.720	---	---
11N20MIMO	Ant2	5180	19.320	5170.360	5189.680	---	---
11N20MIMO	Ant1	5200	19.240	5190.360	5209.600	---	---
11N20MIMO	Ant2	5200	19.360	5190.240	5209.600	---	---
11N20MIMO	Ant1	5240	19.520	5230.240	5249.760	---	---
11N20MIMO	Ant2	5240	19.520	5230.200	5249.720	---	---
11N20MIMO	Ant1	5260	19.320	5250.320	5269.640	---	---
11N20MIMO	Ant2	5260	19.440	5250.320	5269.760	---	---
11N20MIMO	Ant1	5280	19.320	5270.320	5289.640	---	---
11N20MIMO	Ant2	5280	19.440	5270.240	5289.680	---	---
11N20MIMO	Ant1	5320	19.440	5310.240	5329.680	---	---
11N20MIMO	Ant2	5320	19.400	5310.280	5329.680	---	---
11N20MIMO	Ant1	5500	19.400	5490.280	5509.680	---	---
11N20MIMO	Ant2	5500	19.440	5490.280	5509.720	---	---
11N20MIMO	Ant1	5580	19.360	5570.280	5589.640	---	---
11N20MIMO	Ant2	5580	19.600	5570.200	5589.800	---	---
11N20MIMO	Ant1	5700	19.400	5690.280	5709.680	---	---
11N20MIMO	Ant2	5700	19.480	5690.280	5709.760	---	---
11N20MIMO	Ant1	5745	19.640	5735.200	5754.840	---	---
11N20MIMO	Ant2	5745	19.240	5735.360	5754.600	---	---
11N20MIMO	Ant1	5785	19.320	5775.240	5794.560	---	---
11N20MIMO	Ant2	5785	19.400	5775.280	5794.680	---	---
11N20MIMO	Ant1	5825	19.600	5815.240	5834.840	---	---
11N20MIMO	Ant2	5825	19.280	5815.360	5834.640	---	---
11N40MIMO	Ant1	5190	40.320	5170.080	5210.400	---	---
11N40MIMO	Ant2	5190	40.880	5169.760	5210.640	---	---
11N40MIMO	Ant1	5230	40.640	5209.920	5250.560	---	---
11N40MIMO	Ant2	5230	40.320	5210.160	5250.480	---	---
11N40MIMO	Ant1	5270	40.400	5249.760	5290.160	---	---
11N40MIMO	Ant2	5270	40.400	5250.160	5290.560	---	---
11N40MIMO	Ant1	5310	40.400	5289.920	5330.320	---	---

11N40MIMO	Ant2	5310	40.480	5289.920	5330.400	---	---
11N40MIMO	Ant1	5510	40.640	5489.680	5530.320	---	---
11N40MIMO	Ant2	5510	40.400	5489.680	5530.080	---	---
11N40MIMO	Ant1	5550	40.560	5529.840	5570.400	---	---
11N40MIMO	Ant2	5550	40.800	5529.600	5570.400	---	---
11N40MIMO	Ant1	5670	40.560	5649.440	5690.000	---	---
11N40MIMO	Ant2	5670	40.720	5649.840	5690.560	---	---
11N40MIMO	Ant1	5755	40.160	5734.760	5774.920	---	---
11N40MIMO	Ant2	5755	40.480	5734.520	5775.000	---	---
11N40MIMO	Ant1	5795	41.040	5774.440	5815.480	---	---
11N40MIMO	Ant2	5795	40.400	5774.920	5815.320	---	---
11AC20MIMO	Ant1	5180	19.360	5170.280	5189.640	---	---
11AC20MIMO	Ant2	5180	19.560	5170.240	5189.800	---	---
11AC20MIMO	Ant1	5200	19.360	5190.360	5209.720	---	---
11AC20MIMO	Ant2	5200	19.440	5190.360	5209.800	---	---
11AC20MIMO	Ant1	5240	19.560	5230.240	5249.800	---	---
11AC20MIMO	Ant2	5240	19.400	5230.280	5249.680	---	---
11AC20MIMO	Ant1	5260	19.600	5250.240	5269.840	---	---
11AC20MIMO	Ant2	5260	19.280	5250.400	5269.680	---	---
11AC20MIMO	Ant1	5280	19.280	5270.360	5289.640	---	---
11AC20MIMO	Ant2	5280	19.440	5270.320	5289.760	---	---
11AC20MIMO	Ant1	5320	19.400	5310.320	5329.720	---	---
11AC20MIMO	Ant2	5320	19.480	5310.240	5329.720	---	---
11AC20MIMO	Ant1	5500	19.280	5490.360	5509.640	---	---
11AC20MIMO	Ant2	5500	19.320	5490.280	5509.600	---	---
11AC20MIMO	Ant1	5580	19.280	5570.360	5589.640	---	---
11AC20MIMO	Ant2	5580	19.440	5570.360	5589.800	---	---
11AC20MIMO	Ant1	5700	19.440	5690.240	5709.680	---	---
11AC20MIMO	Ant2	5700	19.480	5690.240	5709.720	---	---
11AC20MIMO	Ant1	5745	19.240	5735.360	5754.600	---	---
11AC20MIMO	Ant2	5745	19.440	5735.240	5754.680	---	---
11AC20MIMO	Ant1	5785	19.360	5775.280	5794.640	---	---
11AC20MIMO	Ant2	5785	19.360	5775.320	5794.680	---	---
11AC20MIMO	Ant1	5825	19.320	5815.240	5834.560	---	---
11AC20MIMO	Ant2	5825	19.280	5815.320	5834.600	---	---
11AC40MIMO	Ant1	5190	40.560	5169.760	5210.320	---	---
11AC40MIMO	Ant2	5190	40.160	5169.840	5210.000	---	---
11AC40MIMO	Ant1	5230	40.240	5210.160	5250.400	---	---
11AC40MIMO	Ant2	5230	40.320	5209.840	5250.160	---	---
11AC40MIMO	Ant1	5270	40.640	5249.680	5290.320	---	---
11AC40MIMO	Ant2	5270	40.320	5250.000	5290.320	---	---
11AC40MIMO	Ant1	5310	40.720	5289.520	5330.240	---	---
11AC40MIMO	Ant2	5310	40.480	5289.840	5330.320	---	---
11AC40MIMO	Ant1	5510	40.960	5489.360	5530.320	---	---
11AC40MIMO	Ant2	5510	40.720	5489.600	5530.320	---	---
11AC40MIMO	Ant1	5550	40.400	5529.760	5570.160	---	---
11AC40MIMO	Ant2	5550	40.160	5530.000	5570.160	---	---
11AC40MIMO	Ant1	5670	40.400	5650.000	5690.400	---	---
11AC40MIMO	Ant2	5670	40.400	5649.760	5690.160	---	---
11AC40MIMO	Ant1	5755	40.400	5734.600	5775.000	---	---
11AC40MIMO	Ant2	5755	40.080	5735.000	5775.080	---	---
11AC40MIMO	Ant1	5795	40.240	5774.840	5815.080	---	---
11AC40MIMO	Ant2	5795	40.960	5774.520	5815.480	---	---
11AC80MIMO	Ant1	5210	80.640	5170.160	5250.800	---	---
11AC80MIMO	Ant2	5210	80.000	5170.000	5250.000	---	---
11AC80MIMO	Ant1	5290	80.320	5249.840	5330.160	---	---
11AC80MIMO	Ant2	5290	80.960	5249.680	5330.640	---	---
11AC80MIMO	Ant1	5530	80.640	5489.520	5570.160	---	---
11AC80MIMO	Ant2	5530	80.320	5489.840	5570.160	---	---
11AC80MIMO	Ant1	5610	80.320	5570.000	5650.320	---	---
11AC80MIMO	Ant2	5610	80.480	5569.840	5650.320	---	---

11AC80MIMO	Ant1	5775	80.480	5735.000	5815.480	---	---
11AC80MIMO	Ant2	5775	80.320	5735.000	5815.320	---	---



Occupied channel bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.781	5171.6552	5188.4362	---	---
11A	Ant2	5180	16.784	5171.6406	5188.4246	---	---
11A	Ant1	5200	16.747	5191.6602	5208.4072	---	---
11A	Ant2	5200	17.022	5191.5626	5208.5846	---	---
11A	Ant1	5240	16.727	5231.6720	5248.3990	---	---
11A	Ant2	5240	18.807	5231.4524	5250.2594	---	---
11A	Ant1	5260	17.085	5251.5536	5268.6386	---	---
11A	Ant2	5260	17.865	5251.5133	5269.3783	---	---
11A	Ant1	5280	16.724	5271.6620	5288.3860	---	---
11A	Ant2	5280	19.806	5271.2054	5291.0114	---	---
11A	Ant1	5320	16.648	5311.6630	5328.3110	---	---
11A	Ant2	5320	19.621	5311.2135	5330.8345	---	---
11A	Ant1	5500	16.578	5491.7362	5508.3142	---	---
11A	Ant2	5500	16.503	5491.7365	5508.2395	---	---
11A	Ant1	5580	16.551	5571.7479	5588.2989	---	---
11A	Ant2	5580	16.546	5571.7163	5588.2623	---	---
11A	Ant1	5700	16.527	5691.7395	5708.2665	---	---
11A	Ant2	5700	16.662	5691.6632	5708.3252	---	---
11A	Ant1	5745	16.524	5736.7218	5753.2458	---	---
11A	Ant2	5745	16.686	5736.6646	5753.3506	---	---
11A	Ant1	5785	16.509	5776.7297	5793.2387	---	---
11A	Ant2	5785	16.603	5776.6933	5793.2963	---	---
11A	Ant1	5825	16.515	5816.7264	5833.2414	---	---
11A	Ant2	5825	16.611	5816.6494	5833.2604	---	---
11N20MIMO	Ant1	5180	17.669	5171.1676	5188.8366	---	---
11N20MIMO	Ant2	5180	17.727	5171.1421	5188.8691	---	---
11N20MIMO	Ant1	5200	17.645	5191.1690	5208.8140	---	---
11N20MIMO	Ant2	5200	17.717	5191.1395	5208.8565	---	---
11N20MIMO	Ant1	5240	17.653	5231.1719	5248.8249	---	---
11N20MIMO	Ant2	5240	17.665	5231.1593	5248.8243	---	---
11N20MIMO	Ant1	5260	17.663	5251.1656	5268.8286	---	---
11N20MIMO	Ant2	5260	17.688	5251.1599	5268.8479	---	---
11N20MIMO	Ant1	5280	17.677	5271.1574	5288.8344	---	---
11N20MIMO	Ant2	5280	17.713	5271.1505	5288.8635	---	---
11N20MIMO	Ant1	5320	17.660	5311.1486	5328.8086	---	---
11N20MIMO	Ant2	5320	17.680	5311.1435	5328.8235	---	---
11N20MIMO	Ant1	5500	17.670	5491.1502	5508.8202	---	---
11N20MIMO	Ant2	5500	17.690	5491.1382	5508.8282	---	---
11N20MIMO	Ant1	5580	17.662	5571.1688	5588.8308	---	---
11N20MIMO	Ant2	5580	17.670	5571.1606	5588.8306	---	---
11N20MIMO	Ant1	5700	17.681	5691.1516	5708.8326	---	---
11N20MIMO	Ant2	5700	17.650	5691.1668	5708.8168	---	---
11N20MIMO	Ant1	5745	17.674	5736.1460	5753.8200	---	---
11N20MIMO	Ant2	5745	17.659	5736.1565	5753.8155	---	---
11N20MIMO	Ant1	5785	17.669	5776.1323	5793.8013	---	---
11N20MIMO	Ant2	5785	17.639	5776.1501	5793.7891	---	---
11N20MIMO	Ant1	5825	17.709	5816.1289	5833.8379	---	---
11N20MIMO	Ant2	5825	17.673	5816.1351	5833.8081	---	---
11N40MIMO	Ant1	5190	36.625	5171.7805	5208.4055	---	---
11N40MIMO	Ant2	5190	36.864	5171.6151	5208.4791	---	---
11N40MIMO	Ant1	5230	36.526	5211.8862	5248.4122	---	---
11N40MIMO	Ant2	5230	36.755	5211.7768	5248.5318	---	---
11N40MIMO	Ant1	5270	36.452	5251.8490	5288.3010	---	---
11N40MIMO	Ant2	5270	36.646	5251.7462	5288.3922	---	---
11N40MIMO	Ant1	5310	36.405	5291.8193	5328.2243	---	---
11N40MIMO	Ant2	5310	36.634	5291.7297	5328.3637	---	---
11N40MIMO	Ant1	5510	36.502	5491.7332	5528.2352	---	---

11N40MIMO	Ant2	5510	36.626	5491.6439	5528.2699	---	---
11N40MIMO	Ant1	5550	36.587	5531.7263	5568.3133	---	---
11N40MIMO	Ant2	5550	36.665	5531.6614	5568.3264	---	---
11N40MIMO	Ant1	5670	36.574	5651.7303	5688.3043	---	---
11N40MIMO	Ant2	5670	36.525	5651.7664	5688.2914	---	---
11N40MIMO	Ant1	5755	36.510	5736.6342	5773.1442	---	---
11N40MIMO	Ant2	5755	36.450	5736.6994	5773.1494	---	---
11N40MIMO	Ant1	5795	36.608	5776.6369	5813.2449	---	---
11N40MIMO	Ant2	5795	36.454	5776.7318	5813.1858	---	---
11AC20MIMO	Ant1	5180	17.672	5171.1623	5188.8343	---	---
11AC20MIMO	Ant2	5180	17.719	5171.1354	5188.8544	---	---
11AC20MIMO	Ant1	5200	17.694	5191.1486	5208.8426	---	---
11AC20MIMO	Ant2	5200	17.752	5191.1141	5208.8661	---	---
11AC20MIMO	Ant1	5240	17.690	5231.1488	5248.8388	---	---
11AC20MIMO	Ant2	5240	17.729	5231.1447	5248.8737	---	---
11AC20MIMO	Ant1	5260	17.725	5251.1627	5268.8877	---	---
11AC20MIMO	Ant2	5260	17.695	5251.1607	5268.8557	---	---
11AC20MIMO	Ant1	5280	17.672	5271.1560	5288.8280	---	---
11AC20MIMO	Ant2	5280	17.679	5271.1570	5288.8360	---	---
11AC20MIMO	Ant1	5320	17.654	5311.1608	5328.8148	---	---
11AC20MIMO	Ant2	5320	17.661	5311.1672	5328.8282	---	---
11AC20MIMO	Ant1	5500	17.682	5491.1502	5508.8322	---	---
11AC20MIMO	Ant2	5500	17.691	5491.1398	5508.8308	---	---
11AC20MIMO	Ant1	5580	17.652	5571.1765	5588.8285	---	---
11AC20MIMO	Ant2	5580	17.657	5571.1734	5588.8304	---	---
11AC20MIMO	Ant1	5700	17.680	5691.1452	5708.8252	---	---
11AC20MIMO	Ant2	5700	17.658	5691.1620	5708.8200	---	---
11AC20MIMO	Ant1	5745	17.655	5736.1457	5753.8007	---	---
11AC20MIMO	Ant2	5745	17.645	5736.1548	5753.7998	---	---
11AC20MIMO	Ant1	5785	17.666	5776.1379	5793.8039	---	---
11AC20MIMO	Ant2	5785	17.664	5776.1375	5793.8015	---	---
11AC20MIMO	Ant1	5825	17.696	5816.1255	5833.8215	---	---
11AC20MIMO	Ant2	5825	17.681	5816.1280	5833.8090	---	---
11AC40MIMO	Ant1	5190	36.456	5171.7937	5208.2497	---	---
11AC40MIMO	Ant2	5190	36.759	5171.6465	5208.4055	---	---
11AC40MIMO	Ant1	5230	36.456	5211.9169	5248.3729	---	---
11AC40MIMO	Ant2	5230	36.536	5211.8468	5248.3828	---	---
11AC40MIMO	Ant1	5270	36.445	5251.8111	5288.2561	---	---
11AC40MIMO	Ant2	5270	36.568	5251.7598	5288.3278	---	---
11AC40MIMO	Ant1	5310	36.474	5291.7542	5328.2282	---	---
11AC40MIMO	Ant2	5310	36.508	5291.7983	5328.3063	---	---
11AC40MIMO	Ant1	5510	36.547	5491.7807	5528.3277	---	---
11AC40MIMO	Ant2	5510	36.648	5491.6719	5528.3199	---	---
11AC40MIMO	Ant1	5550	36.672	5531.7169	5568.3889	---	---
11AC40MIMO	Ant2	5550	36.733	5531.6719	5568.4049	---	---
11AC40MIMO	Ant1	5670	36.608	5651.7339	5688.3419	---	---
11AC40MIMO	Ant2	5670	36.502	5651.7897	5688.2917	---	---
11AC40MIMO	Ant1	5755	36.464	5736.6925	5773.1565	---	---
11AC40MIMO	Ant2	5755	36.382	5736.7597	5773.1417	---	---
11AC40MIMO	Ant1	5795	36.583	5776.6223	5813.2053	---	---
11AC40MIMO	Ant2	5795	36.492	5776.6357	5813.1277	---	---
11AC80MIMO	Ant1	5210	74.909	5172.8137	5247.7227	---	---
11AC80MIMO	Ant2	5210	75.665	5172.3843	5248.0493	---	---
11AC80MIMO	Ant1	5290	74.864	5252.6371	5327.5011	---	---
11AC80MIMO	Ant2	5290	75.653	5252.3165	5327.9695	---	---
11AC80MIMO	Ant1	5530	75.403	5492.3822	5567.7852	---	---
11AC80MIMO	Ant2	5530	75.440	5492.3472	5567.7872	---	---
11AC80MIMO	Ant1	5610	75.140	5572.3887	5647.5287	---	---
11AC80MIMO	Ant2	5610	75.327	5572.3419	5647.6689	---	---
11AC80MIMO	Ant1	5775	75.286	5737.3783	5812.6643	---	---
11AC80MIMO	Ant2	5775	75.019	5737.5338	5812.5528	---	---

Min emission bandwidth

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
11A	Ant2	5745	16.280	5736.840	5753.120	0.5	PASS
11A	Ant1	5785	16.280	5776.840	5793.120	0.5	PASS
11A	Ant2	5785	16.280	5776.840	5793.120	0.5	PASS
11A	Ant1	5825	16.320	5816.800	5833.120	0.5	PASS
11A	Ant2	5825	16.280	5816.840	5833.120	0.5	PASS
11N20MIMO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11N20MIMO	Ant2	5745	17.160	5736.240	5753.400	0.5	PASS
11N20MIMO	Ant1	5785	17.240	5776.200	5793.440	0.5	PASS
11N20MIMO	Ant2	5785	17.560	5776.200	5793.760	0.5	PASS
11N20MIMO	Ant1	5825	16.880	5816.480	5833.360	0.5	PASS
11N20MIMO	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS
11N40MIMO	Ant1	5755	34.960	5737.480	5772.440	0.5	PASS
11N40MIMO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
11N40MIMO	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
11N40MIMO	Ant2	5795	33.760	5777.560	5811.320	0.5	PASS
11AC20MIMO	Ant1	5745	17.200	5736.240	5753.440	0.5	PASS
11AC20MIMO	Ant2	5745	17.560	5736.200	5753.760	0.5	PASS
11AC20MIMO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11AC20MIMO	Ant2	5785	17.200	5776.200	5793.400	0.5	PASS
11AC20MIMO	Ant1	5825	17.560	5816.200	5833.760	0.5	PASS
11AC20MIMO	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS
11AC40MIMO	Ant1	5755	34.960	5737.480	5772.440	0.5	PASS
11AC40MIMO	Ant2	5755	34.960	5737.560	5772.520	0.5	PASS
11AC40MIMO	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
11AC40MIMO	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
11AC80MIMO	Ant1	5610	72.640	5573.680	5646.320	0.5	PASS
11AC80MIMO	Ant2	5610	73.760	5573.680	5647.440	0.5	PASS
11AC80MIMO	Ant1	5775	73.760	5738.680	5812.440	0.5	PASS
11AC80MIMO	Ant2	5775	75.040	5737.400	5812.440	0.5	PASS

Emission Bandwidth

