

Test Report AIR-AP1542D-B-K9 AIR-AP1542I-B-K9

Cisco Aironet 802.11ac Dual Band Access Points

FCC ID: LDK102109P

5250-5350 MHz

Against the following Specifications:

CFR47 Part 15.407



Cisco Systems

170 West Tasman Drive San Jose, CA 95134

Author: Jose Aguirre Approved By: Jim Nicholson

Aguin

Tested By: Jose Aguirre Title: Technical Leader, Engineering

Revision: 2

This report replaces any previously entered test report under EDCS – **11569238.** This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.

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Section 1: Overview

The samples were assessed against the tests detailed in section 3 under the requirements of the following specifications:

Specifications:	
CFR47 Part 15.407	

Measurements were made in accordance with

- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- KDB 662911 D01 Multiple Transmitter Output v02r01



Section 2: Assessment Information

2.1 General

This report contains an assessment of an apparatus against Electromagnetic Compatibility Standards based upon tests carried out on the samples submitted. The testing was performed by and for the use of Cisco systems Inc:

With regard to this assessment, the following points should be noted:

- a) The results contained in this report relate only to the items tested and were obtained in the period between the date of the initial assessment and the date of issue of the report. Manufactured products will not necessarily give identical results due to production and measurement tolerances.
- b) The apparatus was set up and exercised using the configuration and modes of operation defined in this report only.
- c) Where relevant, the apparatus was only assessed using the susceptibility criteria defined in this report and the Test Assessment Plan (TAP).
- d) All testing was performed under the following environmental conditions:

Temperature 15°C to 35°C (54°F to 95°F)

Atmospheric Pressure 860mbar to 1060mbar (25.4" to 31.3")

Humidity 10% to 75*%

e) All AC testing was performed at one or more of the following supply voltages:

110V 60 Hz (+/-20%)

Units of Measurement

The units of measurements defined in the appendices are reported in specific terms, which are test dependent. Where radiated measurements are concerned these are defined at a particular distance. Basic voltage measurements are defined in units of [dBuV]

As an example, the basic calculation for all measurements is as follows:

Emission level [dBuV] = Indicated voltage level [dBuV] + Cable Loss [dB] + Other correction factors [dB] The combinations of correction factors are dependent upon the exact test configurations [see test equipment lists for further details] and may include:-

Antenna Factors, Pre Amplifier Gain, LISN Loss, Pulse Limiter Loss and Filter Insertion Loss Note: to convert the results from dBuV/m to uV/m use the following formula:-

Level in uV/m = Common Antilogarithm [(X dBuV/m)/20] = Y uV/m



Measurement Uncertainty Values

voltage and power measurements	± 2 dB
conducted EIRP measurements	± 1.4 dB
radiated measurements	± 3.2 dB
frequency measurements	± 2.4 10-7
temperature measurements	± 0.54°
humidity measurements	± 2.3%
DC and low frequency measurements	± 2.5%

Where relevant measurement uncertainty levels have been estimated for tests performed on the apparatus. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Radiated emissions (expanded uncertainty, confidence interval 95%)

30 MHz - 300 MHz	+/- 3.8 dB
300 MHz - 1000 MHz	+/- 4.3 dB
1 GHz - 10 GHz	+/- 4.0 dB
10 GHz - 18GHz	+/- 8.2 dB
18GHz - 26.5GHz	+/- 4.1 dB
26.5GHz - 40GHz	+/- 3.9 dB

Conducted emissions (expanded uncertainty, confidence interval 95%)

A product is considered to comply with a requirement if the nominal measured value is below the limit line. The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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2.2 Date of testing

21-Jan-17 - 06-Feb-17

2.3 Report Issue Date

14-Feb-17

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2.4 Testing facilities

This assessment was performed by:

Testing Laboratory

Cisco Systems, Inc., 125 West Tasman Drive San Jose, CA 95134, USA

Registration Numbers for Industry Canada

Cisco System Site	Address	Site Identifier
Building P, 10m Chamber	125 West Tasman Dr	Company #: 2461N-2
	San Jose, CA 95134	
Building P, 5m Chamber	125 West Tasman Dr	Company #: 2461N-1
	San Jose, CA 95134	
Building I, 5m Chamber	285 W. Tasman Drive	Company #: 2461M-1
	San Jose, California 95134	

Test Engineers

Jose Aguirre

2.5 Equipment Assessed (EUT)

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2.6 EUT Description

The Cisco Aironet 802.11ac Radio supports the following modes of operation. The modes are further defined in the radio Theory of Operation. The modes included in this report represent the worst case data for all modes.

- 802.11a Non HT20, One Antenna, 6 to 54 Mbps, 1ss 802.11a Non HT20, Two Antennas, 6 to 54 Mbps, 1ss
- 802.11a Non HT20 Beam Forming, Two Antennas, 6 to 54 Mbps, 1ss
- 802.11n/ac HT/VHT20, One Antenna, M0 to M7, 1ss
- 802.11n/ac HT/VHT20, Two Antennas, M0 to M7, 1ss
- 802.11n/ac HT/VHT20, Two Antennas, M8 to M15, 2ss
- 802.11n/ac HT/VHT20 Beam Forming, Two Antennas, M0 to M7, 1ss
- 802.11n/ac HT/VHT20 Beam Forming, Two Antennas, M8 to M15, 2ss
- 802.11n/ac HT/VHT20 STBC, Two Antennas, M0 to M7, 2ss
- 802.11a Non HT40, One Antenna, 6 to 54 Mbps, 1ss
- 802.11a Non HT40, Two Antennas, 6 to 54 Mbps, 1ss
- 802.11n/ac HT/VHT40, One Antenna, M0 to M7, 1ss
- 802.11n/ac HT/VHT40, Two Antennas, M0 to M7, 1ss
- 802.11n/ac HT/VHT40, Two Antennas, M8 to M15, 2ss
- 802.11n/ac HT/VHT40 Beam Forming, Two Antennas, M0 to M7, 1ss
- 802.11n/ac HT/VHT40 Beam Forming, Two Antennas, M8 to M15, 2ss
- 802.11n/ac HT/VHT40 STBC, Two Antennas, M0 to M7, 2ss
- 802.11a Non HT80, One Antenna, 6 to 54 Mbps, 1ss
- 802.11a Non HT80, Two Antennas, 6 to 54 Mbps, 1ss
- 802.11ac VHT80, One Antenna, M0 to M9 1ss
- 802.11ac VHT80, Two Antennas, M0 to M9 1ss
- 802.11ac VHT80, Two Antennas, M0 to M9 2ss
- 802.11ac VHT80 Beam Forming, Two Antennas, M0 to M9 1ss
- 802.11ac VHT80 Beam Forming, Two Antennas, M0 to M9 2ss
- 802.11ac VHT80 STBC, Two Antennas, M0 to M9 2ss

The following antennas are supported by this product series.

The data included in this report represent the worst case data for all antennas.

Frequency	Part Number	Antenna Type	Antenna Gain (dBi)	>30 degree 5 GHz Antenna Gain (dBi)
	Internal	BT/BLE	3 / NA	NA
2.4/5 GHz	Internal	Sector (I)	5/5	0
	Internal	Directional (D)	8/9	1



Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

Basic Standard	Technical Requirements / Details	Result
FCC 15.407	99% & 26 dB Bandwidth: The 99% 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. There is no limit for 99% OBW. The 26 dB emission is the 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 26 dB relative to the maximum level measured in the fundamental emission.	Pass
FCC 15.407	Output Power: 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. 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.	Pass
FCC 15.407	Power Spectral Density: 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.	Pass
FCC 15.407	Conducted Spurious Emissions / Band-Edge: For transmitters operating in the 5.25-5.35 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27dBm/MHz.	Pass
FCC 15.407 FCC 15.209 FCC 15.205	Restricted band: Unwanted emissions must comply with the general field strength set forth in FCC 15.209.	Pass



Radiated Emissions (General requirements)

Basic Standard	Technical Requirements / Details	Result
FCC 15.407 FCC 15.209 FCC 15.205	TX Spurious Emissions: Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the filed strength limits table in this section.	Pass
FCC 15.207	AC conducted Emissions: Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries.	Pass

^{*} MPE calculation is recorded in a separate report



Section 4: Sample Details

Note: Each sample was evaluated to ensure that its condition was suitable to be used as a test sample prior to the commencement of testing.

4.1 Sample Details

Sample No.	Equipment Details	Manufacturer	Hardware Rev.	Firmware Rev.	Software Rev.	Serial Number
S01	AIR-AP1542D-B-K9	Cisco Systems	P2	28bb3ae8 d7576e23 8bd6a752 bdc8dc74	8.4.1.10	FOC20387WJ5
S02*	AIR-PWRINJ6	Cisco Systems	V01	NA	NA	C15456663000 0247

^(*) S02 are support equipment Power supplies for EUT S01

4.2 System Details

System #	Description	Samples
1	AIR-AP1542D-B-K9	S01
2	AIR-PWRINJ6	S02

4.3 Mode of Operation Details

Mode#	Description	Comments
1	Continuous Transmitting	Continuous Transmitting ≥98% duty cycle

All measurements were made in accordance with

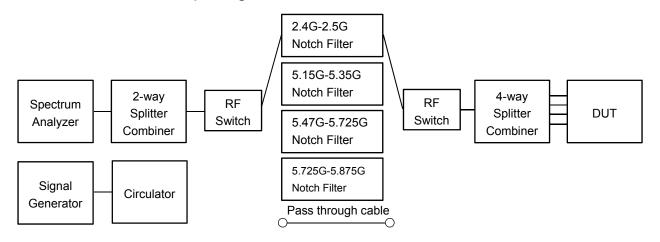
- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- KDB 662911 D01 Multiple Transmitter Output v02r01

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Appendix A: Emission Test Results

Conducted Test Setup Diagram



Target Maximum Channel Power

The following table details the maximum supported Total Channel Power for all operating modes.

Antenna Gain: 5 (0) dBi

	Maximum Channel Power (dBm)						
		Frequen	cy (MHz)				
Operating Mode	5260	5300	5320				
Non HT20, 6 to 54 Mbps	22	21	20				
Non HT20 Beam Forming, 6 to 54 Mbps	18	19	20				
HT/VHT20, M0 to M15	22	22	22				
HT/VHT20 Beam Forming, M0 to M15	21	21	22				
HT/VHT20 STBC, M0 to M7	21	21	22				
	5270	5310					
Non HT40, 6 to 54 Mbps	22	18					
HT/VHT40, M0 to M15	24	20					
HT/VHT40 Beam Forming, M0 to M15	24	20					
HT/VHT40 STBC, M0 to M7	24	20					
	5290						
Non HT80, 6 to 54 Mbps	18						
VHT80, M0 to M9, M0 to M9 1-1ss	19						
VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss	19						
VHT80 STBC, M0 to M9 1ss	19						

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Antenna Gain: 9 (1) dBi

	ı	Maximum Channel Power						
		(dBm)						
		Frequer	icy (MHz)					
Operating Mode	5260	5300	5320					
Non HT20, 6 to 54 Mbps	19	18	18					
Non HT20 Beam Forming, 6 to 54 Mbps	15	15	15					
HT/VHT20, M0 to M15	19	18	19					
HT/VHT20 Beam Forming, M0 to M15	19	18	19					
HT/VHT20 STBC, M0 to M7	19	18	19					
	5270	5310						
Non HT40, 6 to 54 Mbps	20	15						
HT/VHT40, M0 to M15	21	18						
HT/VHT40 Beam Forming, M0 to M15	21	18						
HT/VHT40 STBC, M0 to M7	21	18						
	5290							
Non HT80, 6 to 54 Mbps	15							
VHT80, M0 to M9, M0 to M9 1-1ss	15							
VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss	15							
VHT80 STBC, M0 to M9 1ss	15							

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A.1 99% and 26dB Bandwidth

FCC 15.407 The 99% 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. There is no limit for 99% OBW.

The 26 dB emission is the 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 26 dB relative to the maximum level measured in the fundamental emission.

Test Procedure

Ref. ANSI C63.10: 2013 Section 6.9.3

99% BW and EBW (-26dB)

Test Procedure

- 1. Set the radio in the continuous transmitting mode.
- 2. Allow the trace to stabilize.
- 3. Setting the x-dB bandwidth mode to -26dB and OBW power function to 99% within the measurement set up function.
- 4. Select the automatic OBW measurement function of an instrument to perform bandwidth measurement.
- 5. Capture graphs and record pertinent measurement data.

Ref. ANSI C63.10: 2013 Section 6.9.3

99% BW and EBW (-26dB)

Test parameters

Span = $1.5 \times 10^{-5} \times 1$

RBW = approx. 1% to 5% of the OBW

VBW ≥ 3 x RBW

Detector = Peak or where practical sample shall be used

Trace = Max. Hold

System Number	Description	Samples	System under test	Support equipment
_	EUT	S01	V	
1	Support	S02		\checkmark

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

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Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)		
5000	Non HT20, 6 to 54 Mbps	6	25.6	18.250		
5260	HT/VHT20, M0 to M15	m0	25.6	19.405		
F270	Non HT40, 6 to 54 Mbps	6	66.8	37.798		
5270	HT/VHT40, M0 to M15	m0	45.8	37.326		
5290	Non HT80, 6 to 54 Mbps	6	84.8	76.221		
5290	VHT80, M0 to M9, M0 to M9 1-1ss	m0x1	89.0	76.594		
5300	Non HT20, 6 to 54 Mbps	6	24.8	18.284		
5300	HT/VHT20, M0 to M15	m0	25.7	19.356		
5310	Non HT40, 6 to 54 Mbps	6	44.8	37.177		
5310	HT/VHT40, M0 to M15	m0	45.4	37.114		
5320	Non HT20, 6 to 54 Mbps	6	24.5	18.273		
5520	HT/VHT20, M0 to M15	m0	25.6	19.354		



26dB / 99% Bandwidth, 5260 MHz, Non HT20, 6 to 54 Mbps





A.2 Maximum Conducted Output Power/ Power Spectral Density

15.407 (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.

15.407 (5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Referencing "644545 D03 Guidance for IEEE 802.11ac v01", covering signals that cross the boundary between two adjacent UNII bands, the FCC describes a procedure to measure EBW, power, and PSD in each UNII band. For the case of a 160MHz signal equally distributed between UNII-1 and UNII-2a, we apply the following alternate procedure. Rather than measure:

- The half of the signal in UNII-1, measured against the 30dBm power / 17dBm/MHz PSD limits
- The half of the signal in UNII-2a, measured against the 24dBm power / 11dBm/MHz PSD limits

If a 160MHz signal (equally distributed between the two bands) produces a total power of 27dBm across the entire 160 MHz EBW, the total power in each band would be half of the total, or 24dBm (which meets both the UNII-1 and UNII-2a limits), and would have a PSD no greater than 11dBm/MHz in either sub-band.

Given these facts, we have measured the complete 160 MHz EBW (across both sub-bands) against 27dBm power and 11dBm/MHz PSD limits, rather than individual sub-band measurements against the individual sub-band limits."

Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013

Output Power

Test Procedure

- 1. Set the radio in the continuous transmitting mode at full power
- 2. Compute power by integrating the spectrum across the EBW (or alternatively entire 99% OBW) of the signal using the instrument's band power measurement function. The integration shall be performed using the spectrum analyzer band-power measurement function with band limits set equal to the EBW or the OBW band edges.
- 3. Capture graphs and record pertinent measurement data.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013 section 12.3.2.2 Method SA-1

Output Power

Test parameters

Span = >1.5 times the OBW

RBW = 1MHz

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = sample

Trace = Trace Average 100

The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. (See ANSI C63.10 section 14.3.2.2)

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System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	\mathbf{V}	
Į.	Support	S02		✓

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment



Maximum Output Power Antenna Gain: 5 (0) dBi

Non HT20, 6 to 54 Mbps
Non HT20, 6 to 54 Mbps
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20, M0 to M7 Non HT40, M0 to M7 Non HT40, 6 to 54 Mbps Non HT40, M0 to M7 Non HT80, M0 to M9 to M7 Non HT80, M0 to M9 lss
Non HT20 Beam Forming, 6 to 54 Mbps 2 8 14.6 15.0 17.8 21.6 3.8 HT/VHT20, M0 to M7
HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40, M9 to M9 to M4 Non HT80, 6 to 54 Mbps HT/VHT80, M0 to M9
HT/VHT20, M8 to M15
HT/VHT20, M8 to M15
HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 2 5 17.9 18.0 21.0 23.9 2.9 Non HT40, 6 to 54 Mbps
HT/VHT20 STBC, M0 to M7
Non HT40, 6 to 54 Mbps Non HT40, 6 to 54 Mbps 1 5 21.3 21.3 24.0 2.7
Non HT40, 6 to 54 Mbps 2 5 18.6 19.1 21.9 24.0 2.1 HT/VHT40, M0 to M7 1 5 21.6 21.6 24.0 2.4 HT/VHT40, M0 to M7 2 5 19.6 20.1 22.9 24.0 1.1 HT/VHT40, M8 to M15 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 Beam Forming, M0 to M7 2 8 18.6 19.1 21.9 22.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 15.0 15.4 18.2 24.0 5.8 VHT80, M0 to M9 1ss 1 5 16.3 16.3 24.0 7.7 VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.0 15.4 18.2 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4 HT/VHT40, M0 to M9 1ss 2 5 15.0 15.4 18.2 24.0 5.4 HT/VHT40, M0 to M9 to M
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HT/VHT40, M0 to M7
HT/VHT40 Beam Forming, M0 to M7
HT/VHT40 Beam Forming, M0 to M7
HT/VHT40 Beam Forming, M8 to M15 2 5 20.6 21.1 23.9 24.0 0.1 HT/VHT40 STBC, M0 to M7 2 5 20.6 21.1 23.9 24.0 0.1 Non HT80, 6 to 54 Mbps 1 5 15.9 15.9 24.0 8.1 Non HT80, 6 to 54 Mbps 2 5 15.0 15.4 18.2 24.0 5.8 VHT80, M0 to M9 1ss 1 5 16.3 16.3 24.0 7.7 State of the promise of t
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Non HT80, 6 to 54 Mbps 1 5 15.9 15.9 24.0 8.1 Non HT80, 6 to 54 Mbps 2 5 15.0 15.4 18.2 24.0 5.8 VHT80, M0 to M9 1ss 1 5 16.3 16.3 24.0 7.7 VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
Non HT80, 6 to 54 Mbps 2 5 15.0 15.4 18.2 24.0 5.8 VHT80, M0 to M9 1ss 1 5 16.3 16.3 24.0 7.7 VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
Non HT80, 6 to 54 Mbps 2 5 15.0 15.4 18.2 24.0 5.8 VHT80, M0 to M9 1ss 1 5 16.3 16.3 24.0 7.7 VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
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St. VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
OR VHT80, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
N VIJT90 M0 to M0 200
4) VH160, M0 to M9 288
VHT80 Beam Forming, M0 to M9 1ss 2 8 12.5 12.8 15.7 22.0 6.3
VHT80 Beam Forming, M0 to M9 2ss 2 5 15.3 15.9 18.6 24.0 5.4
VHT80 STBC, M0 to M9 1ss 2 5 15.3 15.9 18.6 24.0 5.4
Non HT20, 6 to 54 Mbps 1 5 20.9 20.9 23.7 2.8
Non HT20, 6 to 54 Mbps 2 5 16.0 16.7 19.4 23.6 4.2
Strict Non HT20 Beam Forming, 6 to 54 Mbps 2 8 16.0 16.7 19.4 21.6 2.2 HT/VHT20, M0 to M7 1 5 21.7 21.7 24.0 2.3
い HT/VHT20, M0 to M7
HT/VHT20, M0 to M7

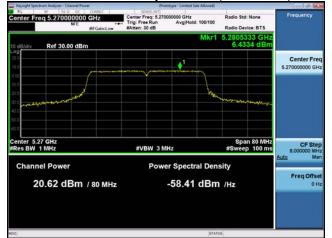
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	HT/VHT20 Beam Forming, M0 to M7	2	8	15.9	16.6	19.3	21.9	2.6
	HT/VHT20 Beam Forming, M8 to M15	2	5	18.0	18.6	21.3	23.9	2.6
	HT/VHT20 STBC, M0 to M7	2	5	18.0	18.6	21.3	23.9	2.6
	Non HT40, 6 to 54 Mbps	1	5	16.2		16.2	24.0	7.8
	Non HT40, 6 to 54 Mbps	2	5	14.5	14.8	17.7	24.0	6.3
	HT/VHT40, M0 to M7	1	5	18.2		18.2	24.0	5.8
10	HT/VHT40, M0 to M7	2	5	16.2	16.8	19.5	24.0	4.5
53.	HT/VHT40, M8 to M15	2	5	16.2	16.8	19.5	24.0	4.5
	HT/VHT40 Beam Forming, M0 to M7	2	8	14.4	14.7	17.5	22.0	4.5
	HT/VHT40 Beam Forming, M8 to M15	2	5	16.2	16.8	19.5	24.0	4.5
	HT/VHT40 STBC, M0 to M7	2	5	16.2	16.8	19.5	24.0	4.5
	Non HT20, 6 to 54 Mbps	1	5	19.5		19.5	23.6	4.1
	Non HT20, 6 to 54 Mbps	2	5	16.4	16.8	19.6	23.6	4.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	16.4	16.8	19.6	21.6	2.0
0	HT/VHT20, M0 to M7	1	5	19.6		19.6	23.9	4.3
5320	HT/VHT20, M0 to M7	2	5	16.5	16.8	19.7	23.9	4.2
4)	HT/VHT20, M8 to M15	2	5	17.5	17.7	20.6	23.9	3.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	16.5	16.8	19.7	21.9	2.2
	HT/VHT20 Beam Forming, M8 to M15	2	5	17.5	17.7	20.6	23.9	3.3
	HT/VHT20 STBC, M0 to M7	2	5	17.5	17.7	20.6	23.9	3.3



Maximum Transmit Output Power, 5270 MHz, HT/VHT40, M8 to M15





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

	Antenna Gain: 9 (1) dBi							
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Total Tx Channel Power (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	9	18.7		18.7	20.6	1.9
	Non HT20, 6 to 54 Mbps	2	9	11.6	12.0	14.8	20.6	5.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	11.6	12.0	14.8	17.6	2.8
	HT/VHT20, M0 to M7	1	9	18.7		18.7	20.9	2.2
5260	HT/VHT20, M0 to M7	2	9	12.6	12.9	15.8	20.9	5.1
22	HT/VHT20, M8 to M15	2	9	15.6	16.0	18.8	20.9	2.1
	HT/VHT20 Beam Forming, M0 to M7	2	12	12.6	12.9	15.8	17.9	2.1
	HT/VHT20 Beam Forming, M8 to M15	2	9	15.6	16.0	18.8	20.9	2.1
	HT/VHT20 STBC, M0 to M7	2	9	15.6	16.0	18.8	20.9	2.1
	Non HT40, 6 to 54 Mbps	1	9	20.4		20.4	21.0	0.6
5270	Non HT40, 6 to 54 Mbps	2	9	14.6	15.2	17.9	21.0	3.1
	HT/VHT40, M0 to M7	1	9	20.6		20.6	21.0	0.4
	HT/VHT40, M0 to M7	2	9	15.5	16.1	18.8	21.0	2.2
	HT/VHT40, M8 to M15	2	9	17.6	18.1	20.9	21.0	0.1
	HT/VHT40 Beam Forming, M0 to M7	2	12	14.6	15.1	17.9	18.0	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	9	17.6	18.1	20.9	21.0	0.1
	HT/VHT40 STBC, M0 to M7	2	9	17.6	18.1	20.9	21.0	0.1
	Non HT80, 6 to 54 Mbps	1	9	14.0		14.0	21.0	7.0
	Non HT80, 6 to 54 Mbps	2	9	11.1	11.6	14.4	21.0	6.6
	VHT80, M0 to M9 1ss	1	9	12.5		12.5	21.0	8.5
5290	VHT80, M0 to M9 1ss	2	9	10.5	10.9	13.7	21.0	7.3
2,	VHT80, M0 to M9 2ss	2	9	10.5	10.9	13.7	21.0	7.3
	VHT80 Beam Forming, M0 to M9 1ss	2	12	8.4	8.9	11.7	18.0	6.3
	VHT80 Beam Forming, M0 to M9 2ss	2	9	10.5	10.9	13.7	21.0	7.3
	VHT80 STBC, M0 to M9 1ss	2	9	10.5	10.9	13.7	21.0	7.3
	Non HT20, 6 to 54 Mbps	1	9	18.0		18.0	20.6	2.6
	Non HT20, 6 to 54 Mbps	2	9	12.1	12.6	15.4	20.6	5.2
5300	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	12.1	12.6	15.4	17.6	2.2
2	HT/VHT20, M0 to M7	1	9	18.0	16 =	18.0	20.9	2.9
	HT/VHT20, M0 to M7	2	9	12.1	12.7	15.4	20.9	5.5
	HT/VHT20, M8 to M15	2	9	15.1	15.6	18.4	20.9	2.5

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	HT/VHT20 Beam Forming, M0 to M7	2	12	12.1	12.7	15.4	17.9	2.5
	HT/VHT20 Beam Forming, M8 to M15	2	9	15.1	15.6	18.4	20.9	2.5
	HT/VHT20 STBC, M0 to M7	2	9	15.1	15.6	18.4	20.9	2.5
	Non HT40, 6 to 54 Mbps	1	9	13.4		13.4	21.0	7.6
	Non HT40, 6 to 54 Mbps	2	9	10.4	10.8	13.6	21.0	7.4
	HT/VHT40, M0 to M7	1	9	15.4		15.4	21.0	5.6
10	HT/VHT40, M0 to M7	2	9	12.4	12.7	15.6	21.0	5.4
53.	HT/VHT40, M8 to M15	2	9	12.4	12.7	15.6	21.0	5.4
	HT/VHT40 Beam Forming, M0 to M7	2	12	9.3	9.7	12.5	18.0	5.5
	HT/VHT40 Beam Forming, M8 to M15	2	9	12.4	12.7	15.6	21.0	5.4
	HT/VHT40 STBC, M0 to M7	2	9	12.4	12.7	15.6	21.0	5.4
	Non HT20, 6 to 54 Mbps	1	9	17.5		17.5	20.6	3.1
	Non HT20, 6 to 54 Mbps	2	9	12.5	12.7	15.6	20.6	5.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	11.5	11.7	14.6	17.6	3.0
0	HT/VHT20, M0 to M7	1	9	17.5		17.5	20.9	3.4
5320	HT/VHT20, M0 to M7	2	9	12.6	12.7	15.7	20.9	5.2
4)	HT/VHT20, M8 to M15	2	9	14.6	14.8	17.7	20.9	3.2
	HT/VHT20 Beam Forming, M0 to M7	2	12	11.6	11.7	14.7	17.9	3.2
	HT/VHT20 Beam Forming, M8 to M15	2	9	14.6	14.8	17.7	20.9	3.2
	HT/VHT20 STBC, M0 to M7	2	9	14.6	14.8	17.7	20.9	3.2



Maximum Transmit Output Power, 5270 MHz, HT/VHT40, M8 to M15





Antenna A Antenna B



Power Spectral Density
Antenna Gain: 5 (0) dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	10.6		10.6	11.0	0.4
	Non HT20, 6 to 54 Mbps	2	8	3.8	4.3	7.1	9.0	1.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	3.8	4.3	7.1	9.0	1.9
0	HT/VHT20, M0 to M7	1	5	10.2		10.2	11.0	0.8
5260	HT/VHT20, M0 to M7	2	8	5.7	6.2	9.0	9.0	0.0
4,	HT/VHT20, M8 to M15	2	5	6.7	7.1	9.9	11.0	1.1
	HT/VHT20 Beam Forming, M0 to M7	2	8	5.7	6.2	9.0	9.0	0.0
	HT/VHT20 Beam Forming, M8 to M15	2	5	6.7	7.1	9.9	11.0	1.1
	HT/VHT20 STBC, M0 to M7	2	5	6.7	7.1	9.9	11.0	1.1
	N. LITAO OL SANII		-	7.5		7.5	44.0	0.5
	Non HT40, 6 to 54 Mbps	1	5	7.5		7.5	11.0	3.5
	Non HT40, 6 to 54 Mbps	2	8	5.1	5.7	8.4	9.0	0.6
_	HT/VHT40, M0 to M7	1	5	7.5		7.5	11.0	3.5
5270	HT/VHT40, M0 to M7	2	8	5.3	6.2	8.8	9.0	0.2
2	HT/VHT40, M8 to M15	2	5	6.4	7.0	9.7	11.0	1.3
	HT/VHT40 Beam Forming, M0 to M7	2	8	4.5	5.1	7.8	9.0	1.2
	HT/VHT40 Beam Forming, M8 to M15	2	5	6.4	7.0	9.7	11.0	1.3
	HT/VHT40 STBC, M0 to M7	2	5	6.4	7.0	9.7	11.0	1.3
	Non HT80, 6 to 54 Mbps	1	5	-0.3		-0.3	11.0	11.3
	Non HT80, 6 to 54 Mbps	2	8	-1.0	-0.3	2.4	9.0	6.6
	VHT80, M0 to M9 1ss	1	5	-0.4		-0.4	11.0	11.4
5290	VHT80, M0 to M9 1ss	2	8	-1.2	-0.4	2.2	9.0	6.8
5,	VHT80, M0 to M9 2ss	2	5	-1.2	-0.4	2.2	11.0	8.8
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-4.4	-3.3	-0.8	9.0	9.8
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-1.2	-0.4	2.2	11.0	8.8
	VHT80 STBC, M0 to M9 1ss	2	5	-1.2	-0.4	2.2	11.0	8.8

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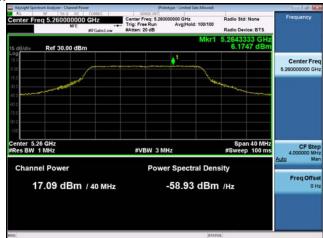


Non HT20, 6 to 54 Mbps	_								
Non HT20 Beam Forming, 6 to 54 Mbps		Non HT20, 6 to 54 Mbps	1	5	10.1		10.1	11.0	0.9
HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, HR/T20, H		Non HT20, 6 to 54 Mbps	2	8	5.3	5.9	8.6	9.0	0.4
HT/VHT20, M0 to M7		Non HT20 Beam Forming, 6 to 54 Mbps	2	8	5.3	5.9	8.6	9.0	0.4
HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, 6 to 54 Mbps HT/VHT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT20, 6 to 54 Mbps HT/VHT20, 6 to 54 Mbps HT/VHT20, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20 Beam Forming, M1 to M15 HT/HT/HT20 Beam Forming, M1 to M15 HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/H	0	HT/VHT20, M0 to M7	1	5	10.7		10.7	11.0	0.3
HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, 6 to 54 Mbps HT/VHT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT20, 6 to 54 Mbps HT/VHT20, 6 to 54 Mbps HT/VHT20, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20 Beam Forming, M1 to M15 HT/HT/HT20 Beam Forming, M1 to M15 HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/HT/H	300	HT/VHT20, M0 to M7	2	8	4.9	6.0	8.5	9.0	0.5
HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 2 5 6.9 7.7 10.3 11.0 0.7 HT/VHT20 STBC, M0 to M7 2 5 6.9 7.7 10.3 11.0 0.7 HT/VHT20 STBC, M0 to M7 2 5 6.9 7.7 10.3 11.0 0.7 HT/VHT40, 6 to 54 Mbps 1 5 2.8 2.8 11.0 8.2 Non HT40, 6 to 54 Mbps 2 8 1.0 1.4 4.2 9.0 4.8 HT/VHT40, M0 to M7 1 5 4.2 4.2 11.0 6.8 HT/VHT40, M8 to M15 2 8 3.2 3.9 6.6 9.0 2.4 HT/VHT40, M8 to M15 2 5 3.2 3.9 6.6 11.0 4.4 HT/VHT40 Beam Forming, M0 to M7 2 8 1.3 1.9 4.6 9.0 4.4 HT/VHT40 Beam Forming, M8 to M15 2 5 3.2 3.9 6.6 11.0 4.4 HT/VHT40 STBC, M0 to M7 2 5 3.2 3.9 6.6 11.0 4.4 HT/VHT40 STBC, M0 to M7 2 8 6.0 5.9 9.0 9.0 0.0 Non HT20, 6 to 54 Mbps 1 5 9.5 9.5 11.0 1.5 Non HT20, 6 to 54 Mbps 2 8 6.0 5.9 9.0 9.0 0.0 HT/VHT20, M0 to M7 1 5 9.3 9.3 11.0 1.7 HT/VHT20, M0 to M7 1 5 9.3 9.3 11.0 1.7 HT/VHT20, M8 to M15 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0	Ω	HT/VHT20, M8 to M15	2	5	6.9	7.7	10.3	11.0	0.7
Non HT40, 6 to 54 Mbps		HT/VHT20 Beam Forming, M0 to M7	2	8	4.9	6.0	8.5	9.0	0.5
Non HT40, 6 to 54 Mbps		HT/VHT20 Beam Forming, M8 to M15	2	5	6.9	7.7	10.3	11.0	0.7
Non HT40, 6 to 54 Mbps		HT/VHT20 STBC, M0 to M7	2	5	6.9	7.7	10.3	11.0	0.7
Non HT40, 6 to 54 Mbps									
HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15		Non HT40, 6 to 54 Mbps	1	5	2.8		2.8	11.0	8.2
HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 Non HT20, 6 to 54 Mbps Non HT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15		Non HT40, 6 to 54 Mbps	2	8	1.0	1.4	4.2	9.0	4.8
HT/VHT40 Beam Forming, M0 to M7		HT/VHT40, M0 to M7	1	5	4.2		4.2	11.0	6.8
HT/VHT40 Beam Forming, M0 to M7	10	HT/VHT40, M0 to M7	2	8	3.2	3.9	6.6	9.0	2.4
HT/VHT40 Beam Forming, M8 to M15	53	HT/VHT40, M8 to M15	2	5	3.2	3.9	6.6	11.0	4.4
HT/VHT40 STBC, M0 to M7		HT/VHT40 Beam Forming, M0 to M7	2	8	1.3	1.9	4.6	9.0	4.4
Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 Non HT20, 6 to 54 Mbps 2 8 6.0 5.9 9.0 9.0 0.0 9.0 0.0 9.0 0.0 1 5 9.3 9.3 11.0 1.7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2		HT/VHT40 Beam Forming, M8 to M15	2	5	3.2	3.9	6.6	11.0	4.4
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 Non HT20, 6 to 54 Mbps 2 8 6.0 5.9 9.0 9.0 0.0 9.0 0.0 1 5 9.3 9.3 11.0 1.7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2		HT/VHT40 STBC, M0 to M7	2	5	3.2	3.9	6.6	11.0	4.4
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 Non HT20, 6 to 54 Mbps 2 8 6.0 5.9 9.0 9.0 0.0 9.0 0.0 1 5 9.3 9.3 11.0 1.7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2									
Non HT20 Beam Forming, 6 to 54 Mbps 2 8 6.0 5.9 9.0 9.0 0.0 HT/VHT20, M0 to M7 1 5 9.3 9.3 11.0 1.7 HT/VHT20, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2		Non HT20, 6 to 54 Mbps	1	5	9.5		9.5	11.0	1.5
HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15		Non HT20, 6 to 54 Mbps	2	8	6.0	5.9	9.0	9.0	0.0
HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 2 8 6.1 5.8 9.0 9.0 0.0 2 8 6.1 5.8 9.0 9.0 0.0 3 9.0 0.0 4 1.0 0.2 4 1.0 0.2		Non HT20 Beam Forming, 6 to 54 Mbps	2	8	6.0	5.9	9.0	9.0	0.0
HT/VHT20, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2	0	HT/VHT20, M0 to M7	1	5	9.3		9.3	11.0	1.7
HT/VHT20, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2 HT/VHT20 Beam Forming, M0 to M7 2 8 6.1 5.8 9.0 9.0 0.0 HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2	32(HT/VHT20, M0 to M7	2	8	6.1	5.8	9.0	9.0	0.0
HT/VHT20 Beam Forming, M8 to M15 2 5 7.7 7.9 10.8 11.0 0.2	T)	HT/VHT20, M8 to M15	2	5	7.7	7.9	10.8	11.0	0.2
		HT/VHT20 Beam Forming, M0 to M7	2	8	6.1	5.8	9.0	9.0	0.0
		HT/VHT20 Beam Forming, M8 to M15	2	5	7.7	7.9	10.8	11.0	0.2
H1/VH120 S1BC, M0 to M7		HT/VHT20 STBC, M0 to M7	2	5	7.7	7.9	10.8	11.0	0.2



Power Spectral Density, 5260 MHz, HT/VHT20, M0 to M7





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

	Antenna Gain: 9 (1) dbi							
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	9	7.9		7.9	8.0	0.1
	Non HT20, 6 to 54 Mbps	2	12	8.0	1.3	4.1	5.0	0.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	0.8	1.3	4.1	5.0	0.9
	HT/VHT20, M0 to M7	1	9	7.7		7.7	8.0	0.3
5260	HT/VHT20, M0 to M7	2	12	1.7	1.8	4.8	5.0	0.2
5	HT/VHT20, M8 to M15	2	9	4.6	5.1	7.9	8.0	0.1
	HT/VHT20 Beam Forming, M0 to M7	2	12	1.7	1.8	4.8	5.0	0.2
	HT/VHT20 Beam Forming, M8 to M15	2	9	4.6	5.1	7.9	8.0	0.1
	HT/VHT20 STBC, M0 to M7	2	9	4.6	5.1	7.9	8.0	0.1
	Non HT40, 6 to 54 Mbps	1	9	7.0		7.0	8.0	1.0
	Non HT40, 6 to 54 Mbps	2	12	1.0	1.6	4.3	5.0	0.7
	HT/VHT40, M0 to M7	1	9	6.4		6.4	8.0	1.6
5270	HT/VHT40, M0 to M7	2	12	1.3	2.0	4.7	5.0	0.3
52	HT/VHT40, M8 to M15	2	9	3.6	3.9	6.8	8.0	1.2
	HT/VHT40 Beam Forming, M0 to M7	2	12	0.5	1.4	4.0	5.0	1.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	3.6	3.9	6.8	8.0	1.2
	HT/VHT40 STBC, M0 to M7	2	9	3.6	3.9	6.8	8.0	1.2
	Non HT80, 6 to 54 Mbps	1	9	-1.0		-1.0	8.0	9.0
	Non HT80, 6 to 54 Mbps	2	12	-4.8	-4.3	-1.5	5.0	6.5
	VHT80, M0 to M9 1ss	1	9	-1.2		-1.2	8.0	9.2
5290	VHT80, M0 to M9 1ss	2	12	-5.4	-4.1	-1.7	5.0	6.7
52	VHT80, M0 to M9 2ss	2	9	-5.4	-4.1	-1.7	8.0	9.7
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-7.1	-6.0	-3.5	5.0	8.5
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-5.4	-4.1	-1.7	8.0	9.7
	VHT80 STBC, M0 to M9 1ss	2	9	-5.4	-4.1	-1.7	8.0	9.7
								_
	Non HT20, 6 to 54 Mbps	1	9	7.3	4.5	7.3	8.0	0.7
	Non HT20, 6 to 54 Mbps	2	12	1.5	1.9	4.7	5.0	0.3
5300	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	1.5	1.9	4.7	5.0	0.3
5	HT/VHT20, M0 to M7	1	9	6.9	4.0	6.9	8.0	1.1
	HT/VHT20, M0 to M7	2	12	1.1	1.9	4.5	5.0	0.5
	HT/VHT20, M8 to M15	2	9	4.2	4.9	7.6	8.0	0.4

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	HT/VHT20 Beam Forming, M0 to M7	2	12	1.1	1.9	4.5	5.0	0.5
	HT/VHT20 Beam Forming, M8 to M15	2	9	4.2	4.9	7.6	8.0	0.4
	HT/VHT20 STBC, M0 to M7	2	9	4.2	4.9	7.6	8.0	0.4
	Non HT40, 6 to 54 Mbps	1	9	1.8		1.8	8.0	6.2
	Non HT40, 6 to 54 Mbps	2	12	-2.2	-1.5	1.2	5.0	3.8
	HT/VHT40, M0 to M7	1	9	3.2		3.2	8.0	4.8
5310	HT/VHT40, M0 to M7	2	12	0.3	0.8	3.6	5.0	1.4
53	HT/VHT40, M8 to M15	2	9	0.3	0.8	3.6	8.0	4.4
	HT/VHT40 Beam Forming, M0 to M7	2	12	-2.5	-2.0	0.8	5.0	4.2
	HT/VHT40 Beam Forming, M8 to M15	2	9	0.3	8.0	3.6	8.0	4.4
	HT/VHT40 STBC, M0 to M7	2	9	0.3	0.8	3.6	8.0	4.4
	Non HT20, 6 to 54 Mbps	1	9	7.9		7.9	8.0	0.1
	Non HT20, 6 to 54 Mbps	2	12	1.7	1.9	4.8	5.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	0.9	0.7	3.8	5.0	1.2
	HT/VHT20, M0 to M7	1	9	7.7		7.7	8.0	0.3
5320	HT/VHT20, M0 to M7	2	12	1.8	1.7	4.8	5.0	0.2
Ŋ	HT/VHT20, M8 to M15	2	9	4.7	5.1	7.9	8.0	0.1
	HT/VHT20 Beam Forming, M0 to M7	2	12	0.6	0.7	3.7	5.0	1.3
	HT/VHT20 Beam Forming, M8 to M15	2	9	4.7	5.1	7.9	8.0	0.1
	HT/VHT20 STBC, M0 to M7	2	9	4.7	5.1	7.9	8.0	0.1



Power Spectral Density, 5260 MHz, Non HT20, 6 to 54 Mbps



Antenna A



A.3 Conducted Spurious Emissions

15.407 (b) *Undesirable emission limits.* Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.

Use formula below to substitute conducted measurements in place of radiated measurements

 $E[dB\mu V/m] = E[RP[dBm] - 20 \log(d[meters]) + 104.77$, where E = field strength and d = 3 meter

- 1) Average Plot, Limit= -41.25 dBm eirp
- 2) Peak plot, Limit = -21.25 dBm eirp

Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013

Conducted Spurious Emissions

Test Procedure

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Place the radio in continuous transmit mode. Use the procedures in KDB 789033 D02 General UNII Test Procedures New Rules v01r03 to substitute conducted measurements in place of radiated measurements.
- 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).
- 4. Record the marker waveform peak to spur difference. Also measure any emissions in the restricted bands.
- 5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded.
- 6. Capture graphs and record pertinent measurement data.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013 section 12.7.7.3 (average) & 12.7.6 (peak)

Conducted Spurious Emissions

Test parameters

Span = 30MHz to 18GHz / 18GHz to 40GHz

RBW = 1 MHz

VBW ≥ 3 x RBW for Peak, 1kHz for Average

Sweep = Auto couple Detector = Peak

Trace = Max Hold.

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	\searrow	
ļ	Support	S02		\checkmark

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

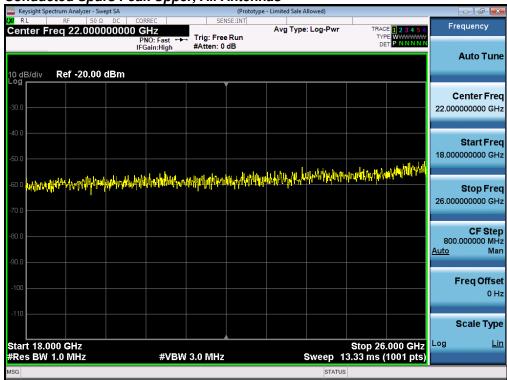
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Conducted Spurs Average Upper, All Antennas







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Antenna Gain: 5 (0) dBi

	Antenna Gain: 5 (0) dBi	_						
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	-63.8		-58.8	-41.25	17.6
•	Non HT20, 6 to 54 Mbps	2	5	-65.2	-59.5	-53.5	-41.25	12.2
•	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-65.2	-59.5	-50.5	-41.25	9.2
	HT/VHT20, M0 to M7	1	5	-64.0		-59.0	-41.25	17.8
5260	HT/VHT20, M0 to M7	2	5	-66.0	-58.8	-53.0	-41.25	11.8
5	HT/VHT20, M8 to M15	2	5	-64.0	-58.3	-52.3	-41.25	11.0
	HT/VHT20 Beam Forming, M0 to M7	2	8	-66.0	-58.8	-50.0	-41.25	8.8
	HT/VHT20 Beam Forming, M8 to M15	2	5	-64.0	-58.3	-52.3	-41.25	11.0
	HT/VHT20 STBC, M0 to M7	2	5	-64.0	-58.3	-52.3	-41.25	11.0
	Non HT40, 6 to 54 Mbps	1	5	-65.0		-60.0	-41.25	18.8
	Non HT40, 6 to 54 Mbps	2	5	-64.7	-64.2	-56.4	-41.25	15.2
	HT/VHT40, M0 to M7	1	5	-65.3		-60.3	-41.25	19.1
5270	HT/VHT40, M0 to M7	2	5	-65.7	-65.6	-57.6	-41.25	16.4
52	HT/VHT40, M8 to M15	2	5	-65.5	-64.8	-57.1	-41.25	15.9
	HT/VHT40 Beam Forming, M0 to M7	2	8	-64.8	-64.8	-53.8	-41.25	12.5
	HT/VHT40 Beam Forming, M8 to M15	2	5	-65.5	-64.8	-57.1	-41.25	15.9
	HT/VHT40 STBC, M0 to M7	2	5	-65.5	-64.8	-57.1	-41.25	15.9
	Non HT80, 6 to 54 Mbps	1	5	-66.7		-61.7	-41.25	20.5
	Non HT80, 6 to 54 Mbps	2	5	-65.5	-62.8	-55.9	-41.25	14.7
	VHT80, M0 to M9 1ss	1	5	-67.6		-62.6	-41.25	21.4
5290	VHT80, M0 to M9 1ss	2	5	-66.9	-62.4	-56.1	-41.25	14.8
52	VHT80, M0 to M9 2ss	2	5	-66.9	-62.4	-56.1	-41.25	14.8
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-66.8	-62.5	-53.1	-41.25	11.9
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-66.9	-62.4	-56.1	-41.25	14.8
	VHT80 STBC, M0 to M9 1ss	2	5	-66.9	-62.4	-56.1	-41.25	14.8
<u> </u>			,					
,	Non HT20, 6 to 54 Mbps	1	5	-65.7		-60.7	-41.25	19.5
,	Non HT20, 6 to 54 Mbps	2	5	-66.8	-59.2	-53.5	-41.25	12.3
5300	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-66.8	-59.2	-50.5	-41.25	9.3
5	HT/VHT20, M0 to M7	1	5	-64.8		-59.8	-41.25	18.6
,	HT/VHT20, M0 to M7	2	5	-66.8	-59.0	-53.3	-41.25	12.1
	HT/VHT20, M8 to M15	2	5	-66.6	-58.0	-52.4	-41.25	11.2

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	HT/VHT20 Beam Forming, M0 to M7	2	8	-66.8	-59.0	-50.3	-41.25	9.1
	HT/VHT20 Beam Forming, M8 to M15	2	5	-66.6	-58.0	-52.4	-41.25	11.2
	HT/VHT20 STBC, M0 to M7	2	5	-66.6	-58.0	-52.4	-41.25	11.2
	Non HT40, 6 to 54 Mbps	1	5	-66.8		-61.8	-41.25	20.6
	Non HT40, 6 to 54 Mbps	2	5	-67.7	-63.8	-57.3	-41.25	16.1
	HT/VHT40, M0 to M7	1	5	-66.0		-61.0	-41.25	19.8
5310	HT/VHT40, M0 to M7	2	5	-66.8	-63.3	-56.7	-41.25	15.4
53	HT/VHT40, M8 to M15	2	5	-66.8	-63.3	-56.7	-41.25	15.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	-67.5	-64.9	-55.0	-41.25	13.7
	HT/VHT40 Beam Forming, M8 to M15	2	5	-66.8	-63.3	-56.7	-41.25	15.4
,	HT/VHT40 STBC, M0 to M7	2	5	-66.8	-63.3	-56.7	-41.25	15.4
	Non HT20, 6 to 54 Mbps	1	5	-65.1		-60.1	-41.25	18.9
	Non HT20, 6 to 54 Mbps	2	5	-66.2	-63.4	-56.6	-41.25	15.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-66.2	-63.4	-53.6	-41.25	12.3
	HT/VHT20, M0 to M7	1	5	-65.5		-60.5	-41.25	19.3
5320	HT/VHT20, M0 to M7	2	5	-66.9	-63.9	-57.1	-41.25	15.9
ιΩ	HT/VHT20, M8 to M15	2	5	-68.1	-64.8	-58.1	-41.25	16.9
	HT/VHT20 Beam Forming, M0 to M7	2	8	-66.9	-63.9	-54.1	-41.25	12.9
	HT/VHT20 Beam Forming, M8 to M15	2	5	-68.1	-64.8	-58.1	-41.25	16.9
	HT/VHT20 STBC, M0 to M7	2	5	-68.1	-64.8	-58.1	-41.25	16.9



Conducted Spurs Average, 5260 MHz, HT/VHT20 Beam Forming, M0 to M7





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

	Antenna Gain: 9 (1) dBi		1					
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	9	-63.1		-54.1	-41.25	12.9
'	Non HT20, 6 to 54 Mbps	2	9	-65.3	-59.9	-49.8	-41.25	8.5
,	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-65.3	-59.9	-46.8	-41.25	5.5
	HT/VHT20, M0 to M7	1	9	-63.6		-54.6	-41.25	13.4
5260	HT/VHT20, M0 to M7	2	9	-65.2	-59.7	-49.6	-41.25	8.4
ß	HT/VHT20, M8 to M15	2	9	-66.2	-59.8	-49.9	-41.25	8.7
	HT/VHT20 Beam Forming, M0 to M7	2	12	-65.2	-59.7	-46.6	-41.25	5.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	-66.2	-59.8	-49.9	-41.25	8.7
	HT/VHT20 STBC, M0 to M7	2	9	-66.2	-59.8	-49.9	-41.25	8.7
	Non HT40, 6 to 54 Mbps	1	9	-65.5		-56.5	-41.25	15.3
	Non HT40, 6 to 54 Mbps	2	9	-65.7	-59.1	-49.2	-41.25	8.0
	HT/VHT40, M0 to M7	1	9	-65.5		-56.5	-41.25	15.3
5270	HT/VHT40, M0 to M7	2	9	-66.4	-59.7	-49.9	-41.25	8.6
52	HT/VHT40, M8 to M15	2	9	-65.0	-65.2	-53.1	-41.25	11.8
	HT/VHT40 Beam Forming, M0 to M7	2	12	-67.1	-59.3	-46.6	-41.25	5.4
	HT/VHT40 Beam Forming, M8 to M15	2	9	-65.0	-65.2	-53.1	-41.25	11.8
	HT/VHT40 STBC, M0 to M7	2	9	-65.0	-65.2	-53.1	-41.25	11.8
	Non HT80, 6 to 54 Mbps	1	9	-65.5		-56.5	-41.25	15.3
,	Non HT80, 6 to 54 Mbps	2	9	-68.2	-63.6	-53.3	-41.25	12.1
,	VHT80, M0 to M9 1ss	1	9	-66.9		-57.9	-41.25	16.7
5290	VHT80, M0 to M9 1ss	2	9	-67.4	-62.6	-52.4	-41.25	11.1
52	VHT80, M0 to M9 2ss	2	9	-67.4	-62.6	-52.4	-41.25	11.1
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-68.3	-64.2	-50.8	-41.25	9.5
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-67.4	-62.6	-52.4	-41.25	11.1
	VHT80 STBC, M0 to M9 1ss	2	9	-67.4	-62.6	-52.4	-41.25	11.1
			1					
,	Non HT20, 6 to 54 Mbps	1	9	-66.8		-57.8	-41.25	16.6
	Non HT20, 6 to 54 Mbps	2	9	-67.2	-59.1	-49.5	-41.25	8.2
5300	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-67.2	-59.1	-46.5	-41.25	5.2
5	HT/VHT20, M0 to M7	1	9	-66.6		-57.6	-41.25	16.4
	HT/VHT20, M0 to M7	2	9	-67.2	-59.4	-49.7	-41.25	8.5
	HT/VHT20, M8 to M15	2	9	-66.9	-59.0	-49.3	-41.25	8.1

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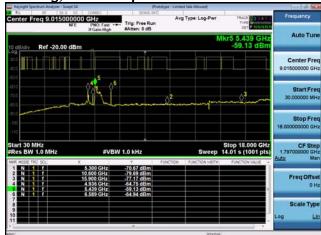


	HT/VHT20 Beam Forming, M0 to M7	2	12	-67.2	-59.4	-46.7	-41.25	5.5	
	HT/VHT20 Beam Forming, M8 to M15	2	9	-66.9	-59.0	-49.3	-41.25	8.1	
	HT/VHT20 STBC, M0 to M7	2	9	-66.9	-59.0	-49.3	-41.25	8.1	
	Non HT40, 6 to 54 Mbps	1	9	-66.7		-57.7	-41.25	16.5	
	Non HT40, 6 to 54 Mbps	2	9	-66.7	-64.8	-53.6	-41.25	12.4	
	HT/VHT40, M0 to M7	1	9	-66.8		-57.8	-41.25	16.6	
10	HT/VHT40, M0 to M7	2	9	-68.1	-64.5	-53.9	-41.25	12.7	
53	HT/VHT40, M8 to M15	2	9	-68.1	-64.5	-53.9	-41.25	12.7	
	HT/VHT40 Beam Forming, M0 to M7	2	12	-67.9	-65.7	-51.7	-41.25	10.4	
	HT/VHT40 Beam Forming, M8 to M15	2	9	-68.1	-64.5	-53.9	-41.25	12.7	
	HT/VHT40 STBC, M0 to M7	2	9	-68.1	-64.5	-53.9	-41.25	12.7	
	Non HT20, 6 to 54 Mbps	1	9	-67.6		-58.6	-41.25	17.4	
	Non HT20, 6 to 54 Mbps	2	9	-67.1	-63.0	-52.6	-41.25	11.3	
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-68.7	-64.1	-50.8	-41.25	9.6	
0	HT/VHT20, M0 to M7	1	9	-68.1		-59.1	-41.25	17.9	
5320	HT/VHT20, M0 to M7	2	9	-66.9	-62.7	-52.3	-41.25	11.1	
4)	HT/VHT20, M8 to M15	2	9	-67.0	-63.0	-52.5	-41.25	11.3	
	HT/VHT20 Beam Forming, M0 to M7	2	12	-68.1	-64.4	-50.9	-41.25	9.6	
	HT/VHT20 Beam Forming, M8 to M15	2	9	-67.0	-63.0	-52.5	-41.25	11.3	
	HT/VHT20 STBC, M0 to M7	2	9	-67.0	-63.0	-52.5	-41.25	11.3	



Conducted Spurs Average, 5300 MHz, Non HT20 Beam Forming, 6 to 54 Mbps





Antenna A Antenna B



Antenna Gain: 5 (0) dBi

Non-HT20, 6 to 54 Mbps		Antenna Gain: 5 (0) dBi							
Non HT20, 6 to 54 Mbps	Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
Non HT20 Beam Forming, 6 to 54 Mbps		Non HT20, 6 to 54 Mbps	1	5	-50.9		-45.9	-21.25	24.7
HT/VHT20, M0 to M7	,	Non HT20, 6 to 54 Mbps	2	5	-51.9	-53.2	-44.5	-21.25	23.2
HT/VHT20, M0 to M7		Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-51.9	-53.2	-41.5	-21.25	20.2
HT/VHT20 Beam Forming, M0 to M7 PAGE 15.		HT/VHT20, M0 to M7	1	5	-51.6		-46.6	-21.25	25.4
HT/VHT20 Beam Forming, M0 to M7 PAGE 15.	260	HT/VHT20, M0 to M7	2	5	-52.0	-50.5	-43.2	-21.25	21.9
HT/VHT20 Beam Forming, M8 to M15	5	HT/VHT20, M8 to M15	2	5	-50.4	-51.1	-42.7	-21.25	21.5
Non HT40, 6 to 54 Mbps		HT/VHT20 Beam Forming, M0 to M7	2	8	-52.0	-50.5	-40.2	-21.25	18.9
Non HT40, 6 to 54 Mbps		HT/VHT20 Beam Forming, M8 to M15	2	5	-50.4	-51.1	-42.7	-21.25	21.5
Non HT40, 6 to 54 Mbps	, and a	HT/VHT20 STBC, M0 to M7	2	5	-50.4	-51.1	-42.7	-21.25	21.5
Non HT40, 6 to 54 Mbps									
HT/VHT40, M0 to M7		Non HT40, 6 to 54 Mbps	1	5	-48.5		-43.5	-21.25	22.3
HT/VHT40, M0 to M7		Non HT40, 6 to 54 Mbps	2	5	-50.6	-49.7	-42.1	-21.25	20.9
HT/VHT40 Beam Forming, M0 to M7	· ·	HT/VHT40, M0 to M7	1	5	-49.9		-44.9	-21.25	23.7
HT/VHT40 Beam Forming, M0 to M7	20	HT/VHT40, M0 to M7	2	5	-47.4	-48.6	-39.9	-21.25	18.7
HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 2 5 -46.9 -48.7 -39.7 -21.25 18.4 HT/VHT40 STBC, M0 to M7 2 5 -46.9 -48.7 -39.7 -21.25 18.4 Non HT80, 6 to 54 Mbps Non HT80, 6 to 54 Mbps VHT80, M0 to M9 1ss VHT80, M0 to M9 1ss VHT80, M0 to M9 1ss VHT80, M0 to M9 2ss VHT80, M0 to M9 2ss VHT80, Beam Forming, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 Beam Forming, M0 to M9 2ss VHT80 Beam Forming, M0 to M9 2ss VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 NON HT20, 6 to 54 Mbps 1 5 -49.8 -44.8 -21.25 20.2 NON HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 NON HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 22.4	52	HT/VHT40, M8 to M15	2	5	-46.9	-48.7	-39.7	-21.25	18.4
HT/VHT40 STBC, M0 to M7		HT/VHT40 Beam Forming, M0 to M7	2	8	-49.6	-50.1	-38.8	-21.25	17.6
Non HT80, 6 to 54 Mbps		HT/VHT40 Beam Forming, M8 to M15	2	5	-46.9	-48.7	-39.7	-21.25	18.4
Non HT80, 6 to 54 Mbps 2 5 -49.3 -59.0 -43.9 -21.25 22.6 VHT80, M0 to M9 1ss 1 5 -50.1 -45.1 -21.25 23.9 VHT80, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 Beam Forming, M0 to M9 1ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.9 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 23.6 Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 24.7 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 22.4 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4	· ·	HT/VHT40 STBC, M0 to M7	2	5	-46.9	-48.7	-39.7	-21.25	18.4
Non HT80, 6 to 54 Mbps 2 5 -49.3 -59.0 -43.9 -21.25 22.6 VHT80, M0 to M9 1ss 1 5 -50.1 -45.1 -21.25 23.9 VHT80, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 Beam Forming, M0 to M9 1ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.9 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 23.6 Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 24.7 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 22.4 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4									
VHT80, M0 to M9 1ss VHT80, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80, M0 to M9 2ss VHT80, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 Beam Forming, M0 to M9 1ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4		Non HT80, 6 to 54 Mbps	1	5	-48.9		-43.9	-21.25	22.7
VHT80, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 Beam Forming, M0 to M9 1ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 Non HT20, 6 to 54 Mbps 1 5 -49.8 -44.8 -21.25 23.6 Non HT20 Beam Forming, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4		Non HT80, 6 to 54 Mbps	2	5	-49.3	-59.0	-43.9	-21.25	22.6
VHT80 Mol to M9 2ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.2		VHT80, M0 to M9 1ss	1	5	-50.1		-45.1	-21.25	23.9
VHT80 Mol to M9 2ss 2 8 -50.6 -60.0 -42.1 -21.25 20.9 VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.1 -51.2 -42.6 -21.2	06	VHT80, M0 to M9 1ss	2	5	-50.3	-48.7	-41.4	-21.25	20.2
VHT80 Beam Forming, M0 to M9 2ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 Non HT20, 6 to 54 Mbps 1 5 -49.8 -44.8 -21.25 23.6 Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4	52	VHT80, M0 to M9 2ss	2	5	-50.3	-48.7	-41.4	-21.25	20.2
VHT80 STBC, M0 to M9 1ss 2 5 -50.3 -48.7 -41.4 -21.25 20.2 86 Non HT20, 6 to 54 Mbps 1 5 -49.8 -44.8 -21.25 23.6 Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4		VHT80 Beam Forming, M0 to M9 1ss	2	8	-50.6	-60.0	-42.1	-21.25	20.9
Non HT20, 6 to 54 Mbps		VHT80 Beam Forming, M0 to M9 2ss	2	5	-50.3	-48.7	-41.4	-21.25	20.2
Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4	, in the second	VHT80 STBC, M0 to M9 1ss	2	5	-50.3	-48.7	-41.4	-21.25	20.2
Non HT20, 6 to 54 Mbps 2 5 -50.1 -51.2 -42.6 -21.25 21.4 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4									
Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -50.1 -51.2 -39.6 -21.25 18.4 HT/VHT20, M0 to M7 1 5 -50.9 -45.9 -21.25 24.7 HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4		Non HT20, 6 to 54 Mbps	1	5	-49.8		-44.8	-21.25	23.6
HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4		Non HT20, 6 to 54 Mbps	2	5	-50.1	-51.2	-42.6	-21.25	21.4
HT/VHT20, M0 to M7 2 5 -51.1 -52.2 -43.6 -21.25 22.4	8	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-50.1	-51.2	-39.6	-21.25	18.4
	53	HT/VHT20, M0 to M7	1	5	-50.9		-45.9	-21.25	24.7
HT/VHT20, M8 to M15 2 5 -50.7 -49.7 -42.2 -21.25 20.9		HT/VHT20, M0 to M7	2	5	-51.1	-52.2	-43.6	-21.25	22.4
		HT/VHT20, M8 to M15	2	5	-50.7	-49.7	-42.2	-21.25	20.9

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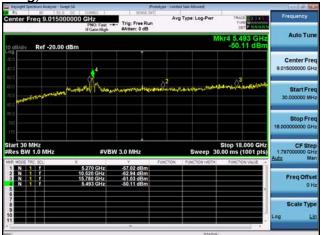


HT/VHT20 Beam Forming, M0 to M7	2	8	-51.1	-52.2	-40.6	-21.25	19.4	
HT/VHT20 Beam Forming, M8 to M15	2	5	-50.7	-49.7	-42.2	-21.25	20.9	
HT/VHT20 STBC, M0 to M7	2	5	-50.7	-49.7	-42.2	-21.25	20.9	
Non HT40, 6 to 54 Mbps	1	5	-50.7		-45.7	-21.25	24.5	
Non HT40, 6 to 54 Mbps	2	5	-50.8	-52.8	-43.7	-21.25	22.4	
HT/VHT40, M0 to M7	1	5	-50.3		-45.3	-21.25	24.1	
HT/VHT40, M0 to M7	2	5	-49.0	-47.9	-40.4	-21.25	19.2	
HT/VHT40, M8 to M15	2	5	-49.0	-47.9	-40.4	-21.25	19.2	
HT/VHT40 Beam Forming, M0 to M7	2	8	-51.0	-60.2	-42.5	-21.25	21.3	
HT/VHT40 Beam Forming, M8 to M15	2	5	-49.0	-47.9	-40.4	-21.25	19.2	
HT/VHT40 STBC, M0 to M7	2	5	-49.0	-47.9	-40.4	-21.25	19.2	
Non HT20, 6 to 54 Mbps	1	5	-58.2		-53.2	-21.25	32.0	
Non HT20, 6 to 54 Mbps	2	5	-61.9	-61.3	-53.6	-21.25	32.3	
Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-61.9	-61.3	-50.6	-21.25	29.3	
HT/VHT20, M0 to M7	1	5	-58.1		-53.1	-21.25	31.9	
HT/VHT20, M0 to M7	2	5	-59.9	-60.2	-52.0	-21.25	30.8	
HT/VHT20, M8 to M15	2	5	-59.1	-60.4	-51.7	-21.25	30.4	
HT/VHT20 Beam Forming, M0 to M7	2	8	-59.9	-60.2	-49.0	-21.25	27.8	
HT/VHT20 Beam Forming, M8 to M15	2	5	-59.1	-60.4	-51.7	-21.25	30.4	
HT/VHT20 STBC, M0 to M7	2	5	-59.1	-60.4	-51.7	-21.25	30.4	
	HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 Non HT40, 6 to 54 Mbps Non HT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps Non HT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15	HT/VHT20 Beam Forming, M8 to M15 2 HT/VHT20 STBC, M0 to M7 2 Non HT40, 6 to 54 Mbps 1 Non HT40, M0 to M7 1 HT/VHT40, M0 to M7 2 HT/VHT40, M8 to M15 2 HT/VHT40 Beam Forming, M0 to M7 2 HT/VHT40 Beam Forming, M8 to M15 2 HT/VHT40 STBC, M0 to M7 2 Non HT20, 6 to 54 Mbps 1 Non HT20 Beam Forming, 6 to 54 Mbps 2 Non HT20, M0 to M7 1 HT/VHT20, M0 to M7 2 HT/VHT20, M8 to M15 2 HT/VHT20 Beam Forming, M0 to M7 2 HT/VHT20 Beam Forming, M8 to M15 2 HT/VHT20 Beam Forming, M8 to M15 2	HT/VHT20 Beam Forming, M8 to M15 2 5 HT/VHT20 STBC, M0 to M7 2 5 Non HT40, 6 to 54 Mbps 1 5 Non HT40, M0 to M7 1 5 HT/VHT40, M0 to M7 2 5 HT/VHT40, M8 to M15 2 5 HT/VHT40 Beam Forming, M0 to M7 2 8 HT/VHT40 Beam Forming, M8 to M15 2 5 HT/VHT40 STBC, M0 to M7 2 5 Non HT20, 6 to 54 Mbps 1 5 Non HT20 Beam Forming, 6 to 54 Mbps 2 5 Non HT20, M0 to M7 1 5 HT/VHT20, M0 to M7 2 5 HT/VHT20, M8 to M15 2 5 HT/VHT20 Beam Forming, M0 to M7 2 8 HT/VHT20 Beam Forming, M8 to M15 2 5 HT/VHT20 Beam Forming, M8 to M15 2 5	HT/VHT20 Beam Forming, M8 to M15 2 5 -50.7 HT/VHT20 STBC, M0 to M7 2 5 -50.7 Non HT40, 6 to 54 Mbps 1 5 -50.7 Non HT40, 6 to 54 Mbps 2 5 -50.8 HT/VHT40, M0 to M7 1 5 -50.3 HT/VHT40, M0 to M7 2 5 -49.0 HT/VHT40, M8 to M15 2 5 -49.0 HT/VHT40 Beam Forming, M0 to M7 2 8 -51.0 HT/VHT40 STBC, M0 to M7 2 5 -49.0 Non HT20, 6 to 54 Mbps 1 5 -58.2 Non HT20, 6 to 54 Mbps 2 5 -61.9 Non HT20, M0 to M7 1 5 -58.1 HT/VHT20, M0 to M7 1 5 -58.1 HT/VHT20, M0 to M7 2 5 -59.9 HT/VHT20, M8 to M15 2 5 -59.1 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.9 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1	HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 2 5 -50.7 -49.7 Non HT40, 6 to 54 Mbps 1 5 -50.7 Non HT40, 6 to 54 Mbps 2 5 -50.8 -52.8 HT/VHT40, M0 to M7 1 5 -50.3 HT/VHT40, M0 to M7 2 5 -49.0 -47.9 HT/VHT40 Beam Forming, M0 to M7 2 5 -49.0 -47.9 HT/VHT40 Beam Forming, M8 to M15 2 5 -49.0 -47.9 HT/VHT40 STBC, M0 to M7 2 5 -49.0 -47.9 Non HT20, 6 to 54 Mbps 1 5 -58.2 Non HT20, 6 to 54 Mbps 1 5 -58.2 Non HT20, 6 to 54 Mbps 2 5 -61.9 -61.3 Non HT20, M0 to M7 1 5 -58.1 HT/VHT20, M0 to M7 2 5 -59.1 -60.2 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1 -60.2 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1 -60.2 HT/VHT20 Beam Forming, M0 to M7 2 5 -59.1 -60.4 HT/VHT20 Beam Forming, M0 to M7 2 8 -59.9 -60.2 HT/VHT20 Beam Forming, M8 to M15 2 5 -59.1 -60.4	HT/VHT20 Beam Forming, M8 to M15	HT/VHT20 Beam Forming, M8 to M15	



Conducted Spurs Peak, 5270 MHz, HT/VHT40 Beam Forming, M0 to M7





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

_	Antenna Gain: 9 (1) dBi							
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	9	-50.7		-41.7	-21.25	20.5
	Non HT20, 6 to 54 Mbps	2	9	-53.0	-51.5	-40.2	-21.25	18.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-53.0	-51.5	-37.2	-21.25	15.9
	HT/VHT20, M0 to M7	1	9	-51.4		-42.4	-21.25	21.2
5260	HT/VHT20, M0 to M7	2	9	-51.5	-52.3	-39.9	-21.25	18.6
ĽΩ	HT/VHT20, M8 to M15	2	9	-52.9	-50.6	-39.6	-21.25	18.3
	HT/VHT20 Beam Forming, M0 to M7	2	12	-51.5	-52.3	-36.9	-21.25	15.6
	HT/VHT20 Beam Forming, M8 to M15	2	9	-52.9	-50.6	-39.6	-21.25	18.3
	HT/VHT20 STBC, M0 to M7	2	9	-52.9	-50.6	-39.6	-21.25	18.3
	Non HT40, 6 to 54 Mbps	1	9	-50.6		-41.6	-21.25	20.4
	Non HT40, 6 to 54 Mbps	2	9	-48.3	-52.4	-37.9	-21.25	16.6
	HT/VHT40, M0 to M7	1	9	-46.9		-37.9	-21.25	16.7
5270	HT/VHT40, M0 to M7	2	9	-50.8	-51.0	-38.9	-21.25	17.6
52	HT/VHT40, M8 to M15	2	9	-49.9	-49.1	-37.5	-21.25	16.2
	HT/VHT40 Beam Forming, M0 to M7	2	12	-50.3	-52.1	-36.1	-21.25	14.8
	HT/VHT40 Beam Forming, M8 to M15	2	9	-49.9	-49.1	-37.5	-21.25	16.2
	HT/VHT40 STBC, M0 to M7	2	9	-49.9	-49.1	-37.5	-21.25	16.2
	Non HT80, 6 to 54 Mbps	1	9	-49.3		-40.3	-21.25	19.1
	Non HT80, 6 to 54 Mbps	2	9	-53.6	-49.8	-39.3	-21.25	18.0
	VHT80, M0 to M9 1ss	1	9	-50.3		-41.3	-21.25	20.1
290	VHT80, M0 to M9 1ss	2	9	-52.0	-49.6	-38.6	-21.25	17.4
52	VHT80, M0 to M9 2ss	2	9	-52.0	-49.6	-38.6	-21.25	17.4
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-51.6	-52.0	-36.8	-21.25	15.5
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-52.0	-49.6	-38.6	-21.25	17.4
	VHT80 STBC, M0 to M9 1ss	2	9	-52.0	-49.6	-38.6	-21.25	17.4
	Non HT20, 6 to 54 Mbps	1	9	-50.1		-41.1	-21.25	19.9
	Non HT20, 6 to 54 Mbps	2	9	-49.9	-51.7	-38.7	-21.25	17.4
5300	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-49.9	-51.7	-35.7	-21.25	14.4
53	HT/VHT20, M0 to M7	1	9	-50.7		-41.7	-21.25	20.5
	HT/VHT20, M0 to M7	2	9	-51.5	-48.5	-37.7	-21.25	16.5
	HT/VHT20, M8 to M15	2	9	-51.3	-51.5	-39.4	-21.25	18.1

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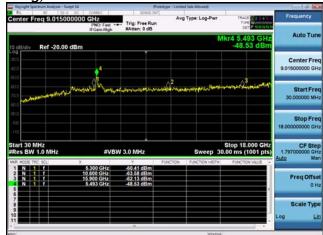


	HT/VHT20 Beam Forming, M0 to M7	2	12	-51.5	-48.5	-34.7	-21.25	13.5	
	HT/VHT20 Beam Forming, M8 to M15	2	9	-51.3	-51.5	-39.4	-21.25	18.1	
	HT/VHT20 STBC, M0 to M7	2	9	-51.3	-51.5	-39.4	-21.25	18.1	
	Non HT40, 6 to 54 Mbps	1	9	-50.1		-41.1	-21.25	19.9	
	Non HT40, 6 to 54 Mbps	2	9	-53.5	-53.2	-41.3	-21.25	20.1	
	HT/VHT40, M0 to M7	1	9	-49.0		-40.0	-21.25	18.8	
5310	HT/VHT40, M0 to M7	2	9	-50.8	-50.3	-38.5	-21.25	17.3	
53	HT/VHT40, M8 to M15	2	9	-50.8	-50.3	-38.5	-21.25	17.3	
	HT/VHT40 Beam Forming, M0 to M7	2	12	-53.0	-61.6	-40.4	-21.25	19.2	
	HT/VHT40 Beam Forming, M8 to M15	2	9	-50.8	-50.3	-38.5	-21.25	17.3	
	HT/VHT40 STBC, M0 to M7	2	9	-50.8	-50.3	-38.5	-21.25	17.3	
	Non HT20, 6 to 54 Mbps	1	9	-60.2		-51.2	-21.25	30.0	
	Non HT20, 6 to 54 Mbps	2	9	-50.4	-50.4	-38.4	-21.25	17.1	
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-60.7	-61.5	-46.1	-21.25	24.8	
0	HT/VHT20, M0 to M7	1	9	-59.1		-50.1	-21.25	28.9	
5320	HT/VHT20, M0 to M7	2	9	-50.4	-58.7	-40.8	-21.25	19.6	
4,	HT/VHT20, M8 to M15	2	9	-49.9	-61.6	-40.6	-21.25	19.4	
	HT/VHT20 Beam Forming, M0 to M7	2	12	-59.6	-61.5	-45.4	-21.25	24.2	
	HT/VHT20 Beam Forming, M8 to M15	2	9	-49.9	-61.6	-40.6	-21.25	19.4	
	HT/VHT20 STBC, M0 to M7	2	9	-49.9	-61.6	-40.6	-21.25	19.4	



Conducted Spurs Peak, 5300 MHz, HT/VHT20 Beam Forming, M0 to M7





Antenna A Antenna B



A.4 Conducted Bandedge

15.205 / **15.209** - Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

Use formula below to substitute conducted measurements in place of radiated measurements

 $E[dB\mu V/m] = E[RP[dBm] - 20 \log(d[meters]) + 104.77$, where E = field strength and d = 3 meter

- 1) Average Plot, Limit= -41.25 dBm eirp
- 2) Peak plot, Limit = -21.25 dBm eirp

Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013

Conducted Bandedge

Test Procedure

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Place the radio in continuous transmit mode. Use the procedures in ANSI C63.10: 2013 to substitute conducted measurements in place of radiated measurements.
- 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).
- 4. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.
- 5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded.
- 6. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands
- 7. Capture graphs and record pertinent measurement data.

Ref. ANSI C63.10: 2013 section 12.7.6 (peak) & 12.7.7.3 (average, Method VB-A (Alternative))

Conducted Bandedge
Test parameters restricted Band
RBW = 1 MHz
VBW ≥ 3 x RBW for Peak, 100Hz for Average
Sweep = Auto couple
Detector = Peak
Trace = Max Hold.

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	\checkmark	
'	Support	S02		\triangleright

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

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Antenna Gain: 5 (0) dBi

	Antenna Gam. 5 (0) dbi		1			ī	1	
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT80, 6 to 54 Mbps	1	5	-49.0		-44.0	-41.25	2.8
	Non HT80, 6 to 54 Mbps	2	5	-49.7	-49.4	-41.5	-41.25	0.3
	VHT80, M0 to M9 1ss	1	5	-47.9		-42.9	-41.25	1.7
5290	VHT80, M0 to M9 1ss	2	5	-48.9	-51.4	-42.0	-41.25	0.7
52	VHT80, M0 to M9 2ss	2	5	-48.9	-51.4	-42.0	-41.25	0.7
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-52.3	-53.0	-41.6	-41.25	0.4
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-48.9	-51.4	-42.0	-41.25	0.7
	VHT80 STBC, M0 to M9 1ss	2	5	-48.9	-51.4	-42.0	-41.25	0.7
	Non HT40, 6 to 54 Mbps	1	5	-47.5		-42.5	-41.25	1.3
	Non HT40, 6 to 54 Mbps	2	5	-49.8	-49.9	-41.8	-41.25	0.6
	HT/VHT40, M0 to M7	1	5	-48.2		-43.2	-41.25	2.0
5310	HT/VHT40, M0 to M7	2	5	-49.9	-50.8	-42.3	-41.25	1.1
53	HT/VHT40, M8 to M15	2	5	-49.9	-50.8	-42.3	-41.25	1.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	-52.6	-52.6	-41.6	-41.25	0.3
	HT/VHT40 Beam Forming, M8 to M15	2	5	-49.9	-50.8	-42.3	-41.25	1.1
	HT/VHT40 STBC, M0 to M7	2	5	-49.9	-50.8	-42.3	-41.25	1.1
	Non HT20, 6 to 54 Mbps	1	5	-48.1		-43.1	-41.25	1.9
	Non HT20, 6 to 54 Mbps	2	5	-53.1	-52.5	-44.8	-41.25	3.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-53.1	-52.5	-41.8	-41.25	0.5
0	HT/VHT20, M0 to M7	1	5	-48.2		-43.2	-41.25	2.0
5320	HT/VHT20, M0 to M7	2	5	-52.8	-52.3	-44.5	-41.25	3.3
4)	HT/VHT20, M8 to M15	2	5	-52.1	-51.5	-43.8	-41.25	2.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	-52.8	-52.3	-41.5	-41.25	0.3
	HT/VHT20 Beam Forming, M8 to M15	2	5	-52.1	-51.5	-43.8	-41.25	2.5
	HT/VHT20 STBC, M0 to M7	2	5	-52.1	-51.5	-43.8	-41.25	2.5



Conducted Bandedge Average, 5290 MHz, Non HT80, 6 to 54 Mbps





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

Frequency (MHz)	Antenna dam. 5 (1) abi	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
Ē.	Mode				μJ			
	Non HT80, 6 to 54 Mbps	1	9	-50.4		-41.4	-41.25	0.2
,	Non HT80, 6 to 54 Mbps	2	9	-54.1	-53.2	-41.6	-41.25	0.4
	VHT80, M0 to M9 1ss	1	9	-51.3		-42.3	-41.25	1.1
5290	VHT80, M0 to M9 1ss	2	9	-54.7	-53.4	-42.0	-41.25	0.7
57	VHT80, M0 to M9 2ss	2	9	-54.7	-53.4	-42.0	-41.25	0.7
,	VHT80 Beam Forming, M0 to M9 1ss	2	12	-57.1	-55.7	-41.3	-41.25	0.1
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-54.7	-53.4	-42.0	-41.25	0.7
	VHT80 STBC, M0 to M9 1ss	2	9	-54.7	-53.4	-42.0	-41.25	0.7
	Non HT40, 6 to 54 Mbps	1	9	-50.8		-41.8	-41.25	0.6
	Non HT40, 6 to 54 Mbps	2	9	-54.5	-55.5	-43.0	-41.25	1.7
	HT/VHT40, M0 to M7	1	9	-50.6		-41.6	-41.25	0.4
5310	HT/VHT40, M0 to M7	2	9	-54.7	-53.0	-41.8	-41.25	0.5
53	HT/VHT40, M8 to M15	2	9	-54.7	-53.0	-41.8	-41.25	0.5
	HT/VHT40 Beam Forming, M0 to M7	2	12	-57.4	-56.5	-41.9	-41.25	0.7
•	HT/VHT40 Beam Forming, M8 to M15	2	9	-54.7	-53.0	-41.8	-41.25	0.5
'	HT/VHT40 STBC, M0 to M7	2	9	-54.7	-53.0	-41.8	-41.25	0.5
	Non HT20, 6 to 54 Mbps	1	9	-52.3		-43.3	-41.25	2.1
'	Non HT20, 6 to 54 Mbps	2	9	-57.5	-55.2	-44.2	-41.25	2.9
'	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-57.6	-55.8	-41.6	-41.25	0.3
	HT/VHT20, M0 to M7	1	9	-52.1		-43.1	-41.25	1.9
5320	HT/VHT20, M0 to M7	2	9	-53.2	-55.0	-42.0	-41.25	0.7
5	HT/VHT20, M8 to M15	2	9	-53.3	-53.7	-41.5	-41.25	0.2
	HT/VHT20 Beam Forming, M0 to M7	2	12	-57.7	-55.4	-41.4	-41.25	0.1
	HT/VHT20 Beam Forming, M8 to M15	2	9	-53.3	-53.7	-41.5	-41.25	0.2
	HT/VHT20 STBC, M0 to M7	2	9	-53.3	-53.7	-41.5	-41.25	0.2



Conducted Bandedge Average, 5290 MHz, VHT80 Beam Forming, M0 to M9 1ss





Antenna A Antenna B



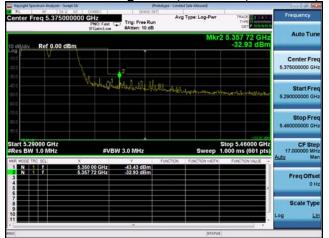
Antenna Gain: 5 (0) dBi

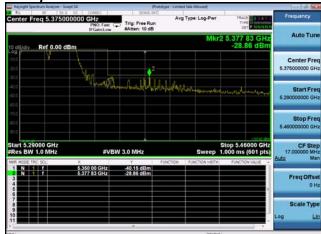
	Antenna Gam. 5 (0) GBI				-			
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT80, 6 to 54 Mbps	1	5	-29.1		-24.1	-21.25	2.9
	Non HT80, 6 to 54 Mbps	2	5	-32.9	-28.9	-22.4	-21.25	1.2
	VHT80, M0 to M9 1ss	1	5	-29.1		-24.1	-21.25	2.9
5290	VHT80, M0 to M9 1ss	2	5	-39.4	-33.6	-27.6	-21.25	6.3
52	VHT80, M0 to M9 2ss	2	5	-39.4	-33.6	-27.6	-21.25	6.3
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-43.4	-40.7	-30.8	-21.25	9.6
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-39.4	-33.6	-27.6	-21.25	6.3
	VHT80 STBC, M0 to M9 1ss	2	5	-39.4	-33.6	-27.6	-21.25	6.3
	Non HT40, 6 to 54 Mbps	1	5	-31.4		-26.4	-21.25	5.2
	Non HT40, 6 to 54 Mbps	2	5	-35.1	-30.7	-24.4	-21.25	3.1
	HT/VHT40, M0 to M7	1	5	-30.0		-25.0	-21.25	3.8
5310	HT/VHT40, M0 to M7	2	5	-36.4	-30.0	-24.1	-21.25	2.9
53	HT/VHT40, M8 to M15	2	5	-36.4	-30.0	-24.1	-21.25	2.9
	HT/VHT40 Beam Forming, M0 to M7	2	8	-42.5	-41.3	-30.8	-21.25	9.6
	HT/VHT40 Beam Forming, M8 to M15	2	5	-36.4	-30.0	-24.1	-21.25	2.9
	HT/VHT40 STBC, M0 to M7	2	5	-36.4	-30.0	-24.1	-21.25	2.9
	Non HT20, 6 to 54 Mbps	1	5	-33.0		-28.0	-21.25	6.8
	Non HT20, 6 to 54 Mbps	2	5	-44.5	-42.7	-35.5	-21.25	14.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-44.5	-42.7	-32.5	-21.25	11.2
0	HT/VHT20, M0 to M7	1	5	-29.2		-24.2	-21.25	3.0
5320	HT/VHT20, M0 to M7	2	5	-40.9	-41.3	-33.1	-21.25	11.8
Ψ,	HT/VHT20, M8 to M15	2	5	-36.0	-32.7	-26.0	-21.25	4.8
	HT/VHT20 Beam Forming, M0 to M7	2	8	-40.9	-41.3	-30.1	-21.25	8.8
	HT/VHT20 Beam Forming, M8 to M15	2	5	-36.0	-32.7	-26.0	-21.25	4.8
	HT/VHT20 STBC, M0 to M7	2	5	-36.0	-32.7	-26.0	-21.25	4.8

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Conducted Bandedge Peak, 5290 MHz, Non HT80, 6 to 54 Mbps





Antenna A Antenna B



Antenna Gain: 9 (1) dBi

Frequency (MHz)	Antenna dam. 5 (1) abi	S	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Вт)	(dB)		
Frequ	Mode	Tx Paths	Correl Anten	Tx 1 B Level	Tx 2 B Level	Total Tx Baı Level (dBm)	Limit (dBm)	Margin (dB)		
	Non HT80, 6 to 54 Mbps	1	9	-32.9		-23.9	-21.25	2.7		
	Non HT80, 6 to 54 Mbps	2	9	-43.3	-43.0	-31.1	-21.25	9.9		
	VHT80, M0 to M9 1ss	1	9	-39.4		-30.4	-21.25	9.2		
5290	VHT80, M0 to M9 1ss	2	9	-41.8	-41.7	-29.7	-21.25	8.5		
52	VHT80, M0 to M9 2ss	2	9	-41.8	-41.7	-29.7	-21.25	8.5		
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-47.7	-46.9	-32.3	-21.25	11.0		
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-41.8	-41.7	-29.7	-21.25	8.5		
	VHT80 STBC, M0 to M9 1ss	2	9	-41.8	-41.7	-29.7	-21.25	8.5		
	Non HT40, 6 to 54 Mbps	1	9	-30.9		-21.9	-21.25	0.7		
	Non HT40, 6 to 54 Mbps	2	9	-42.7	-41.0	-29.8	-21.25	8.5		
	HT/VHT40, M0 to M7	1	9	-36.4		-27.4	-21.25	6.2		
5310	HT/VHT40, M0 to M7	2	9	-45.2	-42.6	-31.7	-21.25	10.4		
53	HT/VHT40, M8 to M15	2	9	-45.2	-42.6	-31.7	-21.25	10.4		
	HT/VHT40 Beam Forming, M0 to M7	2	12	-47.9	-44.8	-31.1	-21.25	9.8		
	HT/VHT40 Beam Forming, M8 to M15	2	9	-45.2	-42.6	-31.7	-21.25	10.4		
	HT/VHT40 STBC, M0 to M7	2	9	-45.2	-42.6	-31.7	-21.25	10.4		
	Non HT20, 6 to 54 Mbps	1	9	-43.3		-34.3	-21.25	13.1		
	Non HT20, 6 to 54 Mbps	2	9	-46.0	-45.7	-33.8	-21.25	12.6		
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-48.7	-47.3	-32.9	-21.25	11.7		
	HT/VHT20, M0 to M7	1	9	-36.0		-27.0	-21.25	5.8		
5320	HT/VHT20, M0 to M7	2	9	-45.3	-44.6	-32.9	-21.25	11.7		
5	HT/VHT20, M8 to M15	2	9	-46.0	-42.9	-32.2	-21.25	10.9		
	HT/VHT20 Beam Forming, M0 to M7	2	12	-47.6	-48.4	-33.0	-21.25	11.7		
	HT/VHT20 Beam Forming, M8 to M15	2	9	-46.0	-42.9	-32.2	-21.25	10.9		
	HT/VHT20 STBC, M0 to M7	2	9	-46.0	-42.9	-32.2	-21.25	10.9		



Conducted Bandedge Peak, 5310 MHz, Non HT40, 6 to 54 Mbps



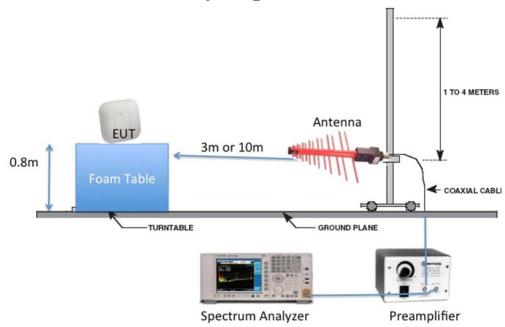
Antenna A



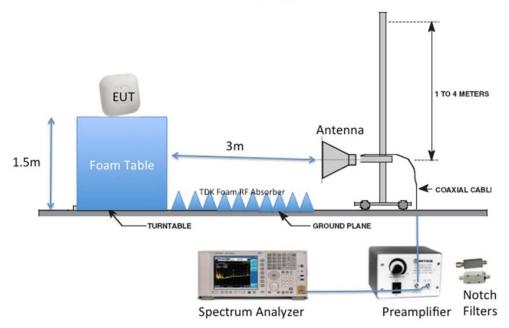
Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 125 West Tasman Drive, San Jose, CA 95134, USA

Radiated Emission Setup Diagram-Below 1G



Radiated Emission Setup Diagram-Above 1G





B.1 Radiated Spurious Emissions

15.407 (b) *Undesirable emission limits.* Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the $\overline{5}$.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

15.205 / 15.209

- (7) The provisions of 15.205 apply to intentional radiators operating under this section.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

Ref. ANSI C63.10: 2013 section 12.7.6 (peak) & 12.7.7.3 (average)

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 1GHz – 18 GHz/18GHz-26G/26GHz-40GHz

Reference Level: 80 dBuV
Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 1MHz

Video Bandwidth: 3 MHz for peak, 1 KHz for average

Detector: Peak

Terminate the access Point RF ports with 50 ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

Save 2 plots: 1) Average plot (Vertical and Horizontal), Limit= 54dBuV/m @3m

2) Peak plot (Vertical and Horizontal), Limit = 74dBuV/m @3m

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands.

This report represents the worst case data for all supported operating modes and antennas. There are no measurable emissions above 18 GHz.

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	\searrow	
	Support	S02		\mathbf{V}

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

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B.1.A Transmitter Radiated Spurious Emissions-Average Worst Case

Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)	Margin dBuV/m)
5260	Non HT/VHT20, 6 to 54 Mbps	6	47.5	54.0	6.5
5270	HT/VHT40, M0 to M15	m0	46.9	54.0	7.1
5280	Non HT/VHT20, 6 to 54 Mbps	m0x1	46.9	54.0	7.1
5290	HT/VHT80, M0 to M15	6	43.9	54.0	10.1
5310	HT/VHT40, M0 to M15	m0	46.2	54.0	7.8
5320	Non HT/VHT20, 6 to 54 Mbps	6	47.4	54.0	6.6

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B.1.A.1 Radiated Transmitter Spurs, 5260 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)



B.1.A.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M15 Average (1-18GHz)





B.1.A.3 Radiated Transmitter Spurs, 5280 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)



B.1.A.4 Radiated Transmitter Spurs, 5290 MHz, HT/VHT80, M0 to M15, Average (1-18GHz)





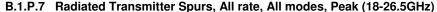
B.1.A.5 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M15, Average (1-18GHz)

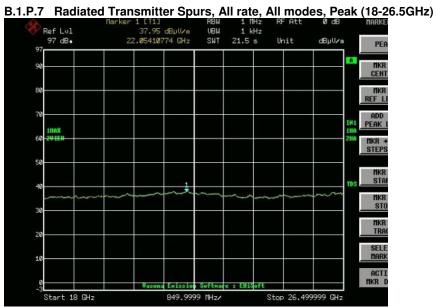


B.1.A.6 Radiated Transmitter Spurs, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps, Average (1-18GHz)

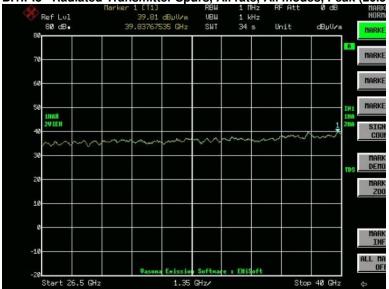








B.1.P.8 Radiated Transmitter Spurs, All rate, All modes, Peak (26.5-40GHz)



No emissions seen above 18GHz. The plots above are representative of all modes tested.



B.1.P Transmitter Radiated Spurious Emissions-Peak worst case

			Spurious Emission		
Frequency (MHz)	Mode	Data Rate (Mbps)	Level (dBuV/m)	Limit (dBuV/m)	Margin dBuV/m)
5260	Non HT/VHT20, 6 to 54 Mbps	6	58.7	74.0	15.3
5270	HT/VHT40, M0 to M15	m0	55.6	74.0	18.4
5280	Non HT/VHT20, 6 to 54 Mbps	6	57.1	74.0	16.9
5290	HT/VHT80, M0 to M15	m0x1	51.8	74.0	22.2
5310	HT/VHT40, M0 to M15	m0	54.7	74.0	19.3
5320	Non HT/VHT20, 6 to 54 Mbps	6	55.3	74.0	18.7



B.1.P.1 Radiated Transmitter Spurs, 5260 MHz, Non HT/VHT20, 6 to 54 Mbps, (1-18GHz)

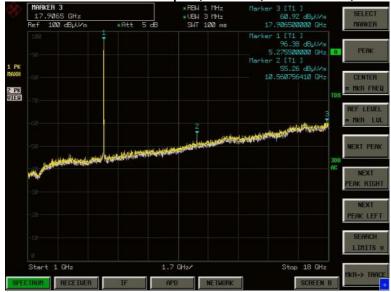


B.1.P.2 Radiated Transmitter Spurs, 5270 MHz, HT/VHT40, M0 to M15, Peak (1-18GHz)





B.1.P.4 Radiated Transmitter Spurs, 5280 MHz, Non HT/VHT20, 6 to 54 Mbps, Peak (1-18GHz)

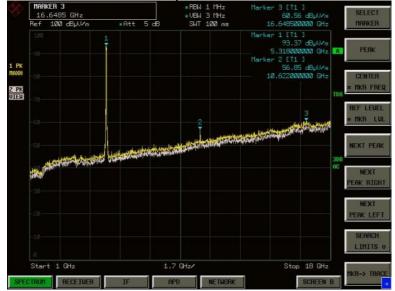


B.1.P.3 Radiated Transmitter Spurs, 5290 MHz, VHT80, M0 to M9, M0 to M9 1.1, Peak (1-18GHz)





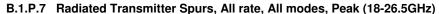
B.1.P.5 Radiated Transmitter Spurs, 5310 MHz, HT/VHT40, M0 to M15, Peak (1-18GHz)

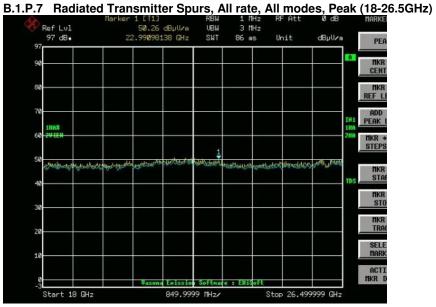


B.1.P.6 Radiated Transmitter Spurs, 5320 MHz, Non HT/VHT20, 6 to 54 Mbps, Peak (1-18GHz)

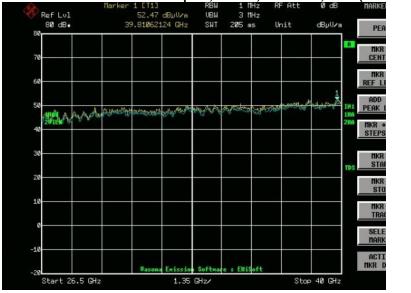








B.1.P.8 Radiated Transmitter Spurs, All rate, All modes, Peak (26.5-40GHz)



No emissions seen above 18GHz. The plots above are representative of all modes tested.



B.2 Radiated Emissions 30MHz to 1GHz

FCC 15.205 / 15.209

- (7) The provisions of 15.205 apply to intentional radiators operating under this section.
- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

Ref. ANSI C63.10: 2013 section 6.5

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 30MHz – 1GHz
Reference Level: 80 dBuV
Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 100kHz
Video Bandwidth: 300kHz

Detector: Peak for Pre-scan, Quasi-Peak

Compliance shall be determined using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak

detection.

Terminate the access Point RF ports with 50 ohm loads.

Maximize Turntable (find worst case table angle), Maximize Antenna (find worst case height)

This report represents the worst case data for all supported operating modes and antennas.

System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	\searrow	
1	Support	S02		\checkmark

Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

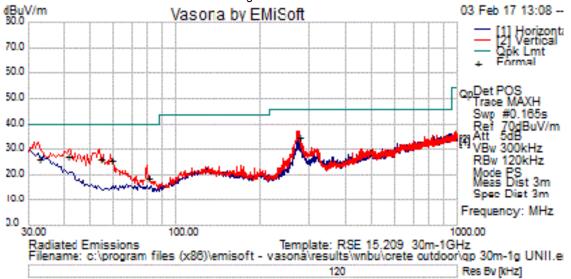
See Appendix C for list of test equipment

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Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results

i cot i teot	1113										
Frequency	Raw	Cable	AF dB	Level	Measurement	Pol	Hgt cm	Azt	Limit	Margin	Pass
MHz	dBuV	Loss		dBuV/m	Type			Deg	dBuV/m	dB	/Fail
32.635	6.3	0.4	19.4	26.2	Quasi Max	V	104	360	40	-13.8	Pass
274.02	19.6	1.5	13.4	34.5	Quasi Max	V	101	327	46	-11.5	Pass
41.223	13.8	0.5	13.1	27.4	Quasi Max	V	103	22	40	-12.6	Pass
53.853	18.6	0.7	7.2	26.4	Quasi Max	V	102	258	40	-13.6	Pass
58.698	17.7	0.7	7.3	25.7	Quasi Max	V	107	135	40	-14.3	Pass
79.843	10.3	0.8	7.7	18.9	Quasi Max	V	127	160	40	-21.1	Pass



B.3 AC Conducted Emissions

FCC 15.207 (a) & RSS-Gen 8.8 / **LP0002:2.3** Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries.

Measurement Procedure

Accordance with ANSI C63.10:2013 section 6.2

Using Vasona, configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer). Place the radio in continuous transmit mode.

Span: 150 KHz – 30 MHz

Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 9 KHz
Video Bandwidth: 30 KHz

Detector: Quasi-Peak / Average

System Number	Description	Samples	System under test	Support equipment
4	EUT	S01	\searrow	
1	Support	S02		\checkmark

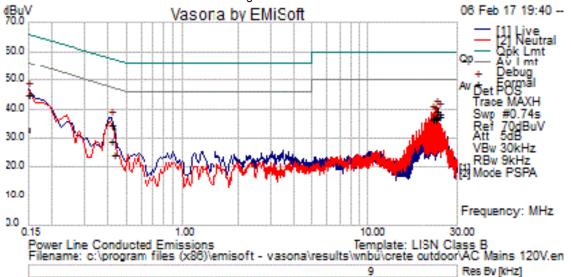
Tested By :	Date of testing:
Jose Aguirre	21-Jan-17 - 06-Feb-17
Test Result : PASS	

See separate EMC test report for test data.



Graphical Test Results

Note that the data displayed on the plots detailed in this appendix were measured using a 'Peak Detector'. Please refer to the results table for the detectors used during formal measurements



Test Results

Test Resu									D / D 11
Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement	Line	Limit dBuV	Margin dB	Pass /Fail
					Type				D.
0.429	12.9	20	0	32.9	Quasi Peak	Live	57.3	-24.3	Pass
23.287	19	20.4	0.3	39.7	Quasi Peak	Live	60	-20.3	Pass
0.15	23.8	21.1	0.1	44.9	Quasi Peak	Live	66	-21.1	Pass
24.015	17.7	20.4	0.3	38.4	Quasi Peak	Live	60	-21.6	Pass
22.802	16.8	20.4	0.3	37.6	Quasi Peak	Live	60	-22.4	Pass
22.074	16.6	20.4	0.3	37.4	Quasi Peak	Live	60	-22.6	Pass
23.285	19	20.4	0.3	39.8	Quasi Peak	Neutral	60	-20.2	Pass
0.15	23.8	21	0.1	45	Quasi Peak	Neutral	66	-21	Pass
22.802	16.7	20.4	0.3	37.4	Quasi Peak	Neutral	60	-22.6	Pass
22.073	16.6	20.4	0.3	37.4	Quasi Peak	Neutral	60	-22.6	Pass
24.014	17.7	20.4	0.3	38.5	Quasi Peak	Neutral	60	-21.5	Pass
0.416	14.9	20	0	34.9	Quasi Peak	Neutral	57.5	-22.6	Pass
0.429	4.2	20	0	24.2	Average	Live	47.3	-23.1	Pass
23.287	18.7	20.4	0.3	39.4	Average	Live	50	-10.6	Pass
0.15	11.8	21.1	0.1	32.9	Average	Live	56	-23.1	Pass
24.015	17.1	20.4	0.3	37.8	Average	Live	50	-12.2	Pass
22.802	16.4	20.4	0.3	37.1	Average	Live	50	-12.9	Pass
22.074	16	20.4	0.3	36.7	Average	Live	50	-13.3	Pass
23.285	18.6	20.4	0.3	39.4	Average	Neutral	50	-10.6	Pass
0.15	11.9	21	0.1	33	Average	Neutral	56	-23	Pass
22.802	16.1	20.4	0.3	36.8	Average	Neutral	50	-13.2	Pass
22.073	15.9	20.4	0.3	36.7	Average	Neutral	50	-13.3	Pass
24.014	17.1	20.4	0.3	37.8	Average	Neutral	50	-12.2	Pass
0.416	8.8	20	0	28.9	Average	Neutral	47.5	-18.7	Pass



Photographs of setup



This is a dual band 2.4GHz / 5GHz device. All ports in this test set up photo are connected as all testing is automated. Section 2.6 of this test report given an overview of the different Tx antenna combinations used by this device.















Appendix C: List of Test Equipment Used to perform the test

	Test Equipment used for Radiated Emissions							
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item			
CIS041929	iBTHP-5-DB9 Newport	5 inch Temp/RH/Press Sensor w/20ft cable	22-Dec-16	22-Dec-17	B.1, B.2, B.3			
CIS001937	NSA 5m Chamber Cisco	NSA 5m Chamber	12-Feb-16	12-Feb-17	B.3			
CIS049535	Above 1GHz Site Cal Cisco	Above 1GHz CISPR Site Validation	13-Feb-16	13-Feb-17	B.1, B.2			
CIS028072	1840 Cisco	18-40GHz EMI Test Head	22-Feb-16	22-Feb-17	B.1, B.2			
CIS045588	JB1 Sunol Sciences	Combination Antenna, 30MHz-2GHz	9-Mar-16	9-Mar-17	B.3			
CIS042000	E4440A Agilent	Spectrum Analyzer	6-Jul-16	6-Jul-17	B.1, B.2			
CIS037581	3117 ETS-Lindgren	Horn Antenna	7-Oct-16	7-Oct-17	B.1, B.2			
CIS045098	TH0118 Cisco	Mast Mount Preamplifier Array, 1-18GHz	31-Oct-16	31-Oct-17	B.1, B.2			
CIS033602	CSY-NMNM-80-273001 Midwest Microwave	RF Coaxial Cable, to 18GHz	8-Nov-16	8-Nov-17	B.1, B.2, B.3			
CIS030443	UFB311A-0-1560-520520 Micro-Coax	RF Coaxial Cable, to 18GHz	8-Nov-16	8-Nov-17	B.1, B.2, B.3			
CIS008024	SF106A Huber + Suhner	3 meter Sucoflex cable	8-Nov-16	8-Nov-17	B.1, B.2, B.3			
CIS024201	FSEK30 Rohde & Schwarz	Spectrum Analyzer 20Hz - 40GHz	23-Nov-16	23-Nov-17	B.1, B.2			
CIS037235	50CB-015 JFW	GPIB Control Box	Cal not Required	Cal not Required	B.1, B.2			
CIS035244	926-8ME Klein Tools	8 Meter Tape Measure	Cal not Required	Cal not Required	B.1, B.2, B.3			
CIS043124	Above 1GHz Site Cal Cisco	Above 1GHz Cispr Site Verification	14-Jan-16	14-Jan-17	B.1, B.2			
CIS047300	N9038A Agilent Technologies	MXE EMI Receiver 20Hz to 26.5 Ghz	28-Jan-16	28-Jan-17	B.1, B.2, B.3			
CIS030559	UFB311A-1-0950-504504 Micro-Coax	RF Coaxial Cable, to 18GHz, 95 in	15-Feb-16	15-Feb-17	B.1, B.2, B.3			
CIS020975	UFB311A-0-1344-520520 Micro-Coax	RF Coaxial Cable, to 18GHz, 134.4 in	17-Feb-16	17-Feb-17	B.1, B.2, B.3			
CIS019630	ESI 40(ESIB 40) Rohde & Schwarz	EMI Test Receiver, 20Hz - 40GHz	22-Feb-16	22-Feb-17	B.1, B.2			
CIS008447	NSA 10m Chamber Cisco	NSA 10m Chamber	14-Oct-16	14-Oct-17	B.3			
CIS036710	1840 Cisco	18-40GHz EMI Test Head/Verification Fixture	17-Nov-16	17-Nov-17	B.1, B.2			
CIS030652	JB1 Sunol Sciences	Combination Antenna, 30MHz-2GHz	16-Dec-16	16-Dec-17	B.3			

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	Test Equipment used for AC Mains Conducted Emissions								
Equip No	Model	Description	Last Cal	Next Cal	Test Item				
	Manufacturer								
CIS051642	Sucoflex 106PA	RF N Type Cable 8.5m	11-Feb-16	11-Feb-17	B.4				
	Huber+Suhner								
CIS030559	UFB311A-1-0950-504504	RF Coaxial Cable, to 18GHz, 95 in	15-Feb-16	15-Feb-17	B.4				
	Micro-Coax								
CIS020975	UFB311A-0-1344-520520	RF Coaxial Cable, to 18GHz, 134.4 in	17-Feb-16	17-Feb-17	B.4				
	Micro-Coax								
CIS046717	5-T-MB	5W 50 Ohm BNC Termination 4GHz	9-Mar-16	9-Mar-17	B.4				
	Bird								
CIS008510	FCC-450B-2.4-N	Instrumentation Limiter	16-May-16	16-May-17	B.4				
	Fischer Custom Communications								
CIS023796	FCC-LISN-PA-520R	POWER ADAPTOR, POLARIZED 120VAC	27-Jul-16	27-Jul-17	B.4				
	Fischer Custom Communications								
CIS023794	FCC-LISN-50/250-50-2-02	LISN	27-Jul-16	27-Jul-17	B.4				
	Fischer Custom Communications								
CIS019206	H785-150K-50-21378	High Pas Filter,Fo=150kHz	13-Sep-16	13-Sep-17	B.4				
	TTE								
CIS005687	73 III	Digital Multimeter	3-Nov-16	3-Nov-17	B.4				
	Fluke								
CIS041929	iBTHP-5-DB9	5 inch Temp/RH/Press Sensor w/20ft cable	22-Dec-16	22-Dec-17	B.4				
	Newport								
CIS054645	33-428	Tape measure 8 meter	Cal Not	Cal Not	B.4				
	Stanley		Required	Required					

Test Equipment used for RF Conducted Tests							
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item		
CIS049445	BRC50704-02 Micro-Tronics	Notch Filter, SB:5.470-5.725GHz, to 12GHz	12-Apr-16	12-Apr-17	A1 thru A6		
CIS035038	BRC50703-02 Micro-Tronics	Notch Filter, SB:5.150-5.350GHz, to 11GHz	6-Jul-16	6-Jul-17	A1 thru A6		
CIS055561	F120-S1S1-48 MegaPhase	SMA Cable 48"	15-Jul-16	15-Jul-17	A1 thru A6		
CIS054635	F120-S1S1-48 Megaphase	SMA cable 48"	15-Jul-16	15-Jul-17	A1 thru A6		
CIS055588	BWS30-W2 Aeroflex	SMA 30dB Attenuator	21-Jul-16	21-Jul-17	A1 thru A6		
CIS055578	BWS20-W2 Aeroflex	SMA 20dB Attenuator	21-Jul-16	21-Jul-17	A1 thru A6		
CIS054656	BRC50705-02 Micro-Tronics	Band Reject Filter	19-Sep-16	19-Sep-17	A1 thru A6		
CIS054653	BRM50702-02 Micro-Tronics	Notch Filter, SB:2.400-2.500GHz, to 18GHz	19-Sep-16	19-Sep-17	A1 thru A6		
CIS055858	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		
CIS055856	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		
CIS055849	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		
CIS055848	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		
CIS055847	SMSM-A2PH-012 Dynawave	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		
CIS055846	SMSM-A2PH-012	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6		

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	Dynawave				
CIS055845	SMSM-A2PH-012	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6
	Dynawave				
CIS055844	SMSM-A2PH-012	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6
	Dynawave				
CIS055843	SMSM-A2PH-012	12" SMA Cable	29-Sep-16	29-Sep-17	A1 thru A6
	Dynawave				
CIS055842	SMSM-A2PH-012	12" SMA cable	29-Sep-16	29-Sep-17	A1 thru A6
	Dynawave				
CIS055874	SMSM-A2PH-024	24" SMA Cable	7-Oct-16	7-Oct-17	A1 thru A6
	Dynawave				
CIS055872	SMSM-A2PH-024	24" SMA Cable	7-Oct-16	7-Oct-17	A1 thru A6
	Dynawave				
CIS055868	SMSM-A2PH-024	24" SMA Cable	7-Oct-16	7-Oct-17	A1 thru A6
	Dynawave				
CIS055867	SMSM-A2PH-024	24" SMA Cable	7-Oct-16	7-Oct-17	A1 thru A6
	Dynawave				
CIS055885	SMSM-A2PH-018	18" SMA Cable	10-Oct-16	10-Oct-17	A1 thru A6
	Dynawave				
CIS055170	RFLT4WDC40GK	4 Way Power Divider 40GHz	29-Nov-16	29-Nov-17	A1 thru A6
	RF Lambda				
CIS050721	N9030A	PXA Signal Analyzer	30-Mar-16	30-Mar-17	A1 thru A6
	Keysight				
CIS054303	N5182B	MXG X-Series RF Vector Signal Generator	6-Apr-16	6-Apr-17	A1 thru A6
	Keysight				
CIS055099	SMART2200RM2U	Power Supply	Cal Not	Cal Not	A1 thru A6
	Tripp-Lite		Required	Required	
CIS055094	PXI-1042	Chassis	Cal Not	Cal Not	A1 thru A6
	National Instruments		Required	Required	



Appendix E: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

Abbreviation	Description	Abbreviation	Description
EMC	Electro Magnetic Compatibility	°F	Degrees Fahrenheit
EMI	Electro Magnetic Interference	°C	Degrees Celsius
EUT	Equipment Under Test	Temp	Temperature
ITE	Information Technology Equipment	S/N	Serial Number
TAP	Test Assessment Schedule	Qty	Quantity
ESD	Electro Static Discharge	emf	Electromotive force
EFT	Electric Fast Transient	RMS	Root mean square
EDCS	Engineering Document Control System	Qp	Quasi Peak
Config	Configuration	Av	Average
CIS#	Cisco Number (unique identification number for Cisco test equipment)	Pk	Peak
Cal	Calibration	kHz	Kilohertz (1x10 ³)
EN	European Norm	MHz	MegaHertz (1x10 ⁶)
IEC	International Electro technical Commission	GHz	Gigahertz (1x10 ⁹)
CISPR	International Special Committee on Radio Interference	Н	Horizontal
CDN	Coupling/Decoupling Network	V	Vertical
LISN	Line Impedance Stabilization Network	dB	decibel
PE	Protective Earth	V	Volt
GND	Ground	kV	Kilovolt (1x10 ³)
L1	Line 1	μV	Microvolt (1x10 ⁻⁶)
L2	Line2	A	Amp
L3	Line 3	μΑ	Micro Amp (1x10 ⁻⁶)
DC	Direct Current	mS	Milli Second (1x10 ⁻³)
RAW	Uncorrected measurement value, as indicated by the measuring device	μS	Micro Second (1x10 ⁻⁶)
RF	Radio Frequency	μS	Micro Second (1x10 ⁻⁶)
SLCE	Signal Line Conducted Emissions	m	Meter
Meas dist	Measurement distance	Spec dist	Specification distance
N/A or NA	Not Applicable	SL	Signal Line (or Telecom Line)
Р	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

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End