

Test Report

AIR-AP1562I-x-K9 AIR-AP1562D-x-K9

(x=A,B,D,N,T,Z)

Cisco Aironet 802.11ac Dual Band Outdoor Access Points

FCC ID: LDK102104 IC: 2461B-102104

2400-2483.5 MHz

Against the following Specifications:

CFR47 Part 15.247 RSS-247 RSS-Gen AS/NZS 4268 LP0002 G.S.R 45 (E)



Cisco Systems

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San Jose, CA 95134

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Tested By:

Approved By: Jim Nicholson

Title: Technical Leader, Engineering

Revision: 4

This report replaces any previously entered test report under EDCS – **11345023.** 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 under the requirements of the following specifications:

Emission

CFR47 Part 15.247

RSS247 Issue 1: May 2015 RSS-Gen Issue 4: Nov 2014

Measurements were made in accordance with

- ANSI C63.10:2013
- FCC KDB 662911 D01 v02r01
- KDB 558074 D01 Meas Guidance v03r05



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*%

*[Where applicable] For ESD testing the humidity limits used were 30% to 60% and for EFT/B tests the humidity limits used were 25% 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

25-April-16 - 08-Aug-16

2.3 Report Issue Date

15-August-2016

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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)

AIR-AP1562I-A-K9

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2.6 EUT Description

The Cisco Aironet 802.11ac Dual Band Access Points support 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. Data is recorded at the lowest supported data rate for each mode. This report covers operation on channel 1-11.

```
802.11n/ac - Legacy CCK, One Antenna, 1 to 11 Mbps
802.11n/ac - Legacy CCK, Two Antennas, 1 to 11 Mbps
802.11n/ac - Legacy CCK, Three Antennas, 1 to 11 Mbps
802.11n/ac - Non HT20, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT20, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20, Three Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20 Beam Forming, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT20 Beam Forming, Three Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT20, One Antenna, M0 to M7
802.11n/ac - HT/VHT20, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20, Two Antennas, M8 to M15
802.11n/ac - HT/VHT20, Three Antennas, M0 to M7
802.11n/ac - HT/VHT20, Three Antennas, M8 to M15
802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M8 to M15
802.11n/ac - HT/VHT20 Beam Forming, Three Antennas, M0 to M7
802.11n/ac - HT/VHT20 Beam Forming, Three Antennas, M8 to M15
802.11n/ac - HT/VHT20 STBC, Two Antennas, M0 to M7
802.11n/ac - HT/VHT20 STBC, Three Antennas, M0 to M7
802.11n/ac - Non HT40 Duplicate, One Antenna, 6 to 54 Mbps
802.11n/ac - Non HT40 Duplicate, Two Antennas, 6 to 54 Mbps
802.11n/ac - Non HT40 Duplicate, Three Antennas, 6 to 54 Mbps
802.11n/ac - HT/VHT40, One Antenna, M0 to M7
802.11n/ac - HT/VHT40, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40, Two Antennas, M8 to M15
802.11n/ac - HT/VHT40, Three Antennas, M0 to M7
802.11n/ac - HT/VHT40, Three Antennas, M8 to M15
802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M8 to M15
802.11n/ac - HT/VHT40 Beam Forming, Three Antennas, M0 to M7
802.11n/ac - HT/VHT40 Beam Forming, Three Antennas, M8 to M15
802.11n/ac - HT/VHT40 STBC, Two Antennas, M0 to M7
802.11n/ac - HT/VHT40 STBC, Three Antennas, M0 to M7
```

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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 (dB	Bi)
2.4	GHz	Internal (*)	Omni	7	
	0 11.	Internal (**)	Directional (Cross Polarized)	9	

(*) Internal antenna for AIR-AP1562I-x-K9 (**) Internal antenna for AIR-AP1562D-x-K9



Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

Basic Standard	Technical Requirements / Details	Result
FCC 15.247 RSS-247 LP0002:3.10.1(6.2.1)	6dB Bandwidth: Systems using digital modulation techniques may operate in the 2400-2483.5MHz band. The minimum 6dB bandwidth shall be at least 500 kHz.	Pass
FCC 15.247 RSS-247	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	Pass
	frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.	
FCC 15.247 RSS-247 LP0002:3.10.1(2.3)	Output Power: 15.247 The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400-2483.5 MHz band shall not exceed 1 Watt (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. RSS-247 For DTSs employing digital modulation techniques operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1W. Except as provided in Section 5.4(5), the e.i.r.p. shall not exceed 4 W.	Pass
FCC 15.247 RSS-247 LP0002:3.10.1(6.2.2)	Power Spectral Density: For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	Pass
FCC 15.247 RSS-247 LP0002:3.10.1(5)/2.8	Conducted Spurious Emissions / Band-Edge: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required	Pass
FCC 15.247 RSS-247 FCC 15.205 RSS-Gen	Restricted band: Unwanted emissions falling within the restricted bands, as defined in FCC 15.205 (a) and RSS-Gen 8.10 must also comply with the radiated emission limits specified in FCC 15.209 (a) and RSS-Gen 8.9.	Pass



Radiated Emissions (General requirements)

Basic Standard	Technical Requirements / Details	Result
FCC 15.209 RSS-Gen LP0002:3.10.1(5)/2.8	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. Unwanted emissions falling within the restricted bands, as defined in FCC 15.205 (a) and RSS-Gen 8.10 must also comply with the radiated emission limits specified in FCC 15.209 (a) and RSS-Gen 8.9.	Pass
RSS-Gen LP0002:3.10.1(5)2.8	RX Spurious Emissions: RSS-Gen 8.9 Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 4 and Table 5 below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission. RSS-Gen 8.10 Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.	Pass
FCC 15.207 RSS-Gen LP0002:2.3	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-AP1562I-A-K9	Cisco Systems	P2	9.1.8.1	9.0.5.5-W8964	RFDP2BML009
S02*	AIR-PWRADPT-RGD1	Meanwell	A0	NA	NA	EB3F71752

^(*) S02 is support equipment Power supply for EUT S01

4.2 System Details

System #	Description	Samples
1	AIR-AP1562I-A-K9	S01
2	AIR-PWRADPT-RGD1	S02

4.3 Mode of Operation Details

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

Measurements were made in accordance with

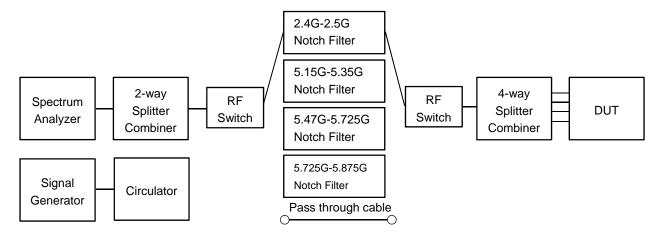
- ANSI C63.10:2013
- FCC KDB 662911 D01 v02r01
- KDB 558074 D01 Meas Guidance v03r05

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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: 7 dBi

	Maximum Channel Power (dBm EIRP)		
	Fre	quency (M	Hz)
Operating Mode	2412	2437	2462
Legacy CCK, 1 to 11 Mbps	35	36	34
Non HT20, 6 to 54 Mbps	31	36	25
Non HT20 Beam Forming, 6 to 54 Mbps	30 36 24		24
HT/VHT20, M0 to M15	30 36 25		25
HT/VHT20 Beam Forming, M0 to M15	30 36 26		
HT/VHT20 STBC, M0 to M7	30 36 25		25
	2437 2442 2452		2452
Non HT40, 6 to 54 Mbps	35	25	36
HT/VHT40, M0 to M15	36 26 36		
HT/VHT40 Beam Forming, M0 to M15	36 27 36		36
HT/VHT40 STBC, M0 to M7	35 26 36		



Antenna Gain: 9 dBi

		Maximum Channel Power (dBm EIRP)			
	Fre	Frequency (MHz)			
Operating Mode	2412	2412 2437 2462			
Legacy CCK, 1 to 11 Mbps	36	36	34		
Non HT20, 6 to 54 Mbps	29	35	26		
Non HT20 Beam Forming, 6 to 54 Mbps	29	36 25			
HT/VHT20, M0 to M15	30	35	26		
HT/VHT20 Beam Forming, M0 to M15	30	36 25			
HT/VHT20 STBC, M0 to M7	30	35 25			
	2437	2437 2442 2452			
Non HT40, 6 to 54 Mbps	36	24	36		
HT/VHT40, M0 to M15	36	36 27 36			
HT/VHT40 Beam Forming, M0 to M15	36	36 27 36			
HT/VHT40 STBC, M0 to M7	36	27	36		



A.1 6dB Bandwidth

15.247 / RSS-247 / LP0002:3.10.1(6.2.1) Systems using digital modulation techniques may operate in the 2400-2483.5MHz band. The minimum 6dB bandwidth shall be at least 500 kHz.

Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10: 2013

6 BW

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 -6dB 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. KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10: 2013 section 11.8.2 Option 2

6 BW

Test parameters

X dB BW = 6dB (using the OBW function of the spectrum analyzer)

Span = Large enough to capture the entire EBW

RBW = 100 KHz

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = Peak or where practical sample shall be used

Trace = Max. Hold

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

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment

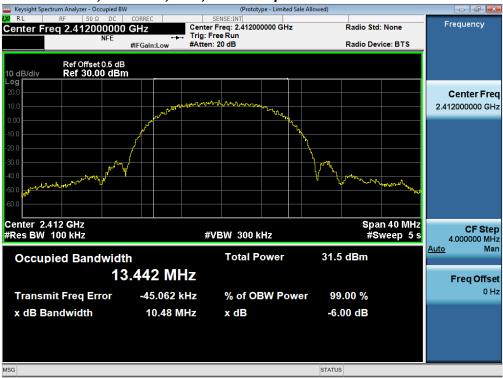
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Frequency (MHz)	Mode	Data Rate (Mbps)	6dB BW (MHz)	Limit (kHz)	Margin (MHz)		
	CCK, 1 to 11 Mbps	11	10.5	>500	10.0		
2412	Non HT20, 6 to 54 Mbps	6	16.4	>500	15.9		
	HT/VHT20, M0 to M15	m0	17.6	>500	17.1		
0.400	Non HT40, 6 to 54 Mbps	6	35.7	>500	35.2		
2422	HT/VHT40, M0 to M15	m0	35.5	>500	35.0		
	Non HT40, 6 to 54 Mbps	6	35.5	>500	35.0		
	HT/VHT40, M0 to M15	m0	35.4	>500	34.9		
2437	CCK, 1 to 11 Mbps	11	9.6	>500	9.1		
	Non HT20, 6 to 54 Mbps	6	16.4	>500	15.9		
	HT/VHT20, M0 to M15	m0	17.4	>500	16.9		
0.450	Non HT40, 6 to 54 Mbps	6	35.8	>500	35.3		
2452	HT/VHT40, M0 to M15	m0	35.7	>500	35.2		
	CCK, 1 to 11 Mbps	11	10.1	>500	9.6		
2462	Non HT20, 6 to 54 Mbps	6	16.4	>500	15.9		
	HT/VHT20, M0 to M15	m0	17.4	>500	16.9		



6dB Bandwidth, 2412 MHz, CCK, 1 to 11 Mbps



6dB Bandwidth, 2412 MHz, Non HT20, 6 to 54 Mbps



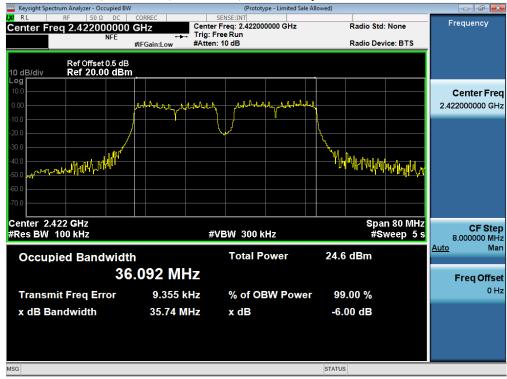
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6dB Bandwidth, 2412 MHz, HT/VHT20, M0 to M15



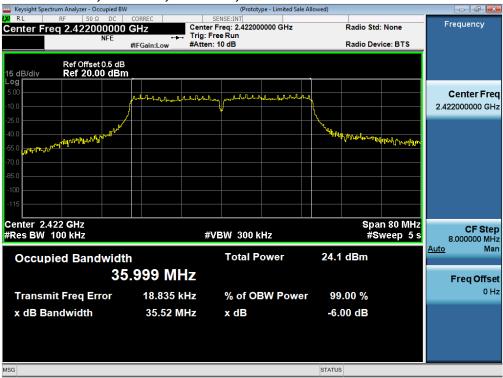
6dB Bandwidth, 2422 MHz, Non HT40, 6 to 54 Mbps



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6dB Bandwidth, 2422 MHz, HT/VHT40, M0 to M15



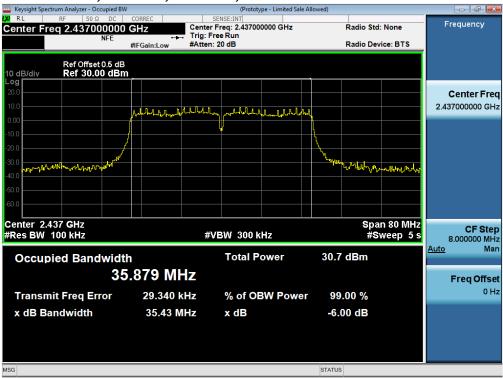
6dB Bandwidth, 2437 MHz, Non HT40, 6 to 54 Mbps



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6dB Bandwidth, 2437 MHz, HT/VHT40, M0 to M15



6dB Bandwidth, 2437 MHz, CCK, 1 to 11 Mbps



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6dB Bandwidth, 2437 MHz, Non HT20, 6 to 54 Mbps



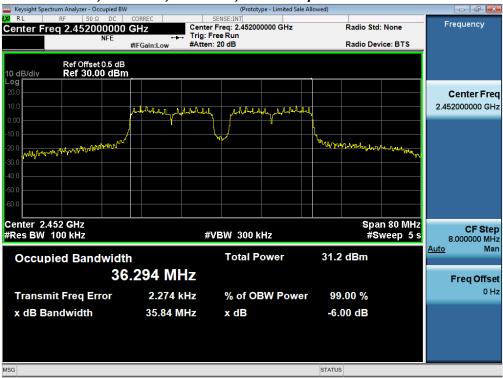
6dB Bandwidth, 2437 MHz, HT/VHT20, M0 to M15



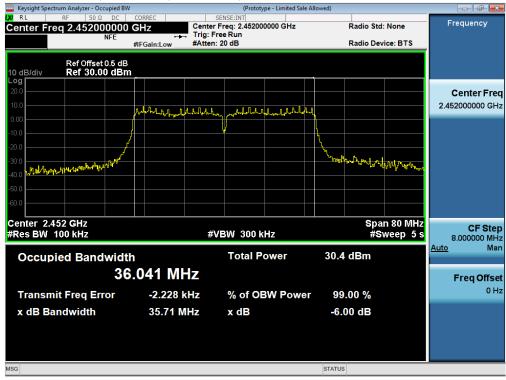
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6dB Bandwidth, 2452 MHz, Non HT40, 6 to 54 Mbps



6dB Bandwidth, 2452 MHz, HT/VHT40, M0 to M15



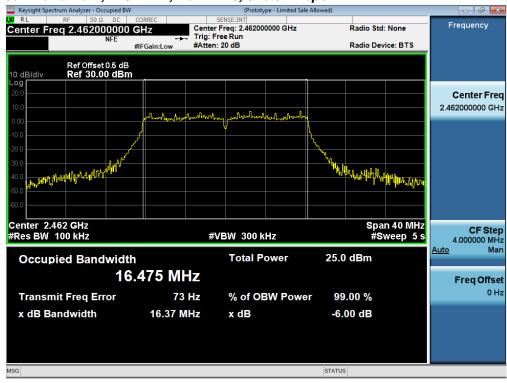
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6dB Bandwidth, 2462 MHz, CCK, 1 to 11 Mbps



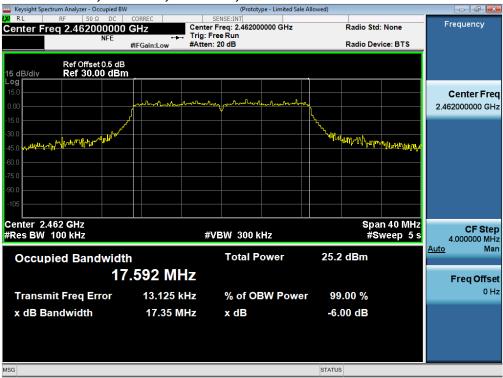
6dB Bandwidth, 2462 MHz, Non HT20, 6 to 54 Mbps



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6dB Bandwidth, 2462 MHz, HT/VHT20, M0 to M15





A.2 99% and 26dB 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.

Test Procedure

Ref. ANSI C63.10: 2013

26 BW & 99% BW

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 & OBW 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

26 BW & 99% BW

Test parameters

X dB BW = -26dB (using the OBW function of the spectrum analyzer)

OBW = 99%

Span = 1.5 to 5 times the OBW

 $\overrightarrow{RBW} = 1\%$ to 5% of the OBW

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = Peak or where practical sample shall be used

Trace = Max. Hold

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

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment

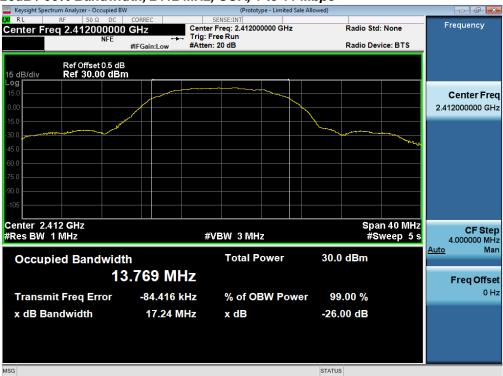
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Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
	CCK, 1 to 11 Mbps	11	17.2	13.770
2412	Non HT20, 6 to 54 Mbps	6	22.4	18.014
	HT/VHT20, M0 to M15	m0	22.7	18.355
2422	Non HT40, 6 to 54 Mbps	6	44.2	36.853
2422	HT/VHT40, M0 to M15	m0	44.2	36.638
	Non HT40, 6 to 54 Mbps	6	75.8	37.887
	HT/VHT40, M0 to M15	m0	43.6	36.530
2437	CCK, 1 to 11 Mbps	11	17.1	13.633
	Non HT20, 6 to 54 Mbps	6	22.2	17.955
	HT/VHT20, M0 to M15	m0	22.6	18.221
2452	Non HT40, 6 to 54 Mbps	6	74.3	38.956
2452	HT/VHT40, M0 to M15	m0	44.5	36.763
	CCK, 1 to 11 Mbps	11	17.1	13.652
2462	Non HT20, 6 to 54 Mbps	6	22.1	17.922
	HT/VHT20, M0 to M15	m0	22.7	18.236



26dB / 99% Bandwidth, 2412 MHz, CCK, 1 to 11 Mbps



26dB / 99% Bandwidth, 2412 MHz, Non HT20, 6 to 54 Mbps



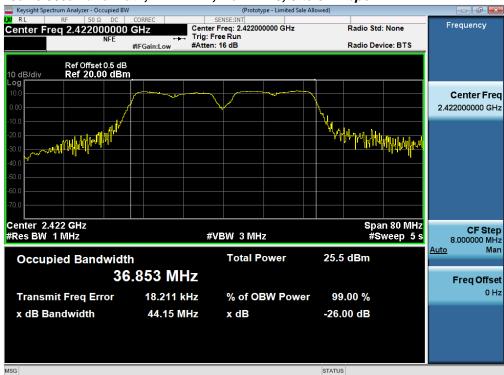
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26dB / 99% Bandwidth, 2412 MHz, HT/VHT20, M0 to M15



26dB / 99% Bandwidth, 2422 MHz, Non HT40, 6 to 54 Mbps



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26dB / 99% Bandwidth, 2422 MHz, HT/VHT40, M0 to M15



26dB / 99% Bandwidth, 2437 MHz, Non HT40, 6 to 54 Mbps



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26dB / 99% Bandwidth, 2437 MHz, HT/VHT40, M0 to M15



26dB / 99% Bandwidth, 2437 MHz, CCK, 1 to 11 Mbps



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26dB / 99% Bandwidth, 2437 MHz, Non HT20, 6 to 54 Mbps



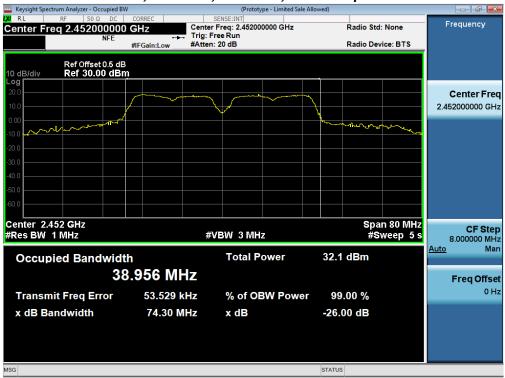
26dB / 99% Bandwidth, 2437 MHz, HT/VHT20, M0 to M15



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26dB / 99% Bandwidth, 2452 MHz, Non HT40, 6 to 54 Mbps



26dB / 99% Bandwidth, 2452 MHz, HT/VHT40, M0 to M15



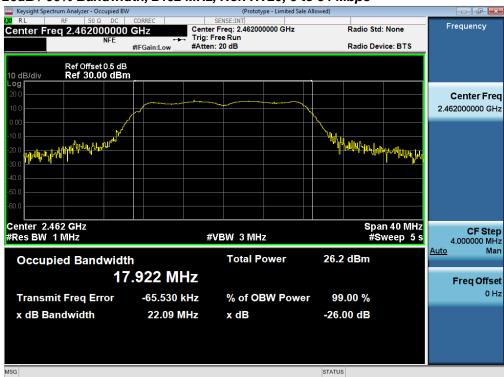
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26dB / 99% Bandwidth, 2462 MHz, CCK, 1 to 11 Mbps



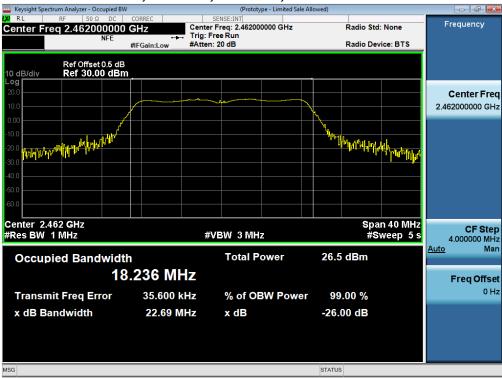
26dB / 99% Bandwidth, 2462 MHz, Non HT20, 6 to 54 Mbps



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26dB / 99% Bandwidth, 2462 MHz, HT/VHT20, M0 to M15





A.3 Maximum Conducted Output Power

15.247 / RSS-247 section 5.4 / LP0002:3.10.1(2.3) The maximum conducted output power of the intentional radiator for systems using digital modulation in the 2400-2483.5 MHz band shall not exceed 1 Watt (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

As an alternative to a peak power measurement, compliance can be based on a measurement of the maximum conducted output power. The maximum conducted output power is the total transmit power delivered to all antennas and antenna elements, averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or transmitting at a reduced power level. If multiple modes of operation are implemented, the maximum conducted output power is the highest total transmit power occurring in any mode.

The maximum supported antenna gain is 6dBi. The peak correlated gain for each mode is listed in the table below. See the Theory of Operation for details on the correlated gain for each mode.

Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10: 2013

Maximum Conducted 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. 558074 D01 DTS Meas Guidance v03r05 section 9.2 Method AVGSA-1 ANSI C63.10: 2013 section 11.9.2 Method AVGSA-1

Maximum Conducted Output power

Test parameters

Span = >1.5 times the OBW

RBW = 1MHz

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = Sample, (RMS or where practical sample shall be used)

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 for Guidance)

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

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment

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Antenna Gain: 7 dBi

Antenna Gain: 7 dBi										
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Tx 3 Max Power (dBm)	Total Tx Channel Power (dBm)	Total Tx Channel Power (dBm) EIRP	Limit (dBm) EIRP	Margin (dB)
	CCK, 1 to 11 Mbps	1	7	23.8			23.8	30.8	36	5.2
	CCK, 1 to 11 Mbps	2	7	23.8	22.9		26.4	33.4	36	2.6
	CCK, 1 to 11 Mbps	3	7	23.8	22.9	22.5	27.9	34.9	36	1.1
	Non HT20, 6 to 54 Mbps	1	7	21.7			21.7	28.7	36	7.3
	Non HT20, 6 to 54 Mbps	2	7	19.7	19.2		22.5	29.5	36	6.5
	Non HT20, 6 to 54 Mbps	3	7	19.7	19.2	18.4	23.9	30.9	36	5.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	17.6	17.2		20.4	30.4	36	5.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	13	12.2	11.6	17.1	29.1	36	6.9
CI	HT/VHT20, M0 to M7	1	7	21			21	28	36	8
2412	HT/VHT20, M0 to M7	2	7	19.9	19.4		22.7	29.7	36	6.3
.,	HT/VHT20, M8 to M15	2	7	19.9	19.4		22.7	29.7	36	6.3
	HT/VHT20, M0 to M7	3	7	17.8	17.4	16.8	22.1	29.1	36	6.9
	HT/VHT20, M8 to M15	3	7	17.8	17.4	16.8	22.1	29.1	36	6.9
	HT/VHT20 Beam Forming, M0 to M7	2	10	16.2	15.3		18.8	28.8	36	7.2
	HT/VHT20 Beam Forming, M8 to M15	2	7	19.9	19.4		22.7	29.7	36	6.3
	HT/VHT20 Beam Forming, M0 to M7	3	12	14.2	13.4	12.6	18.2	30.2	36	5.8
	HT/VHT20 Beam Forming, M8 to M15	3	9	16.2	15.3	14.6	20.2	29.2	36	6.8
	HT/VHT20 STBC, M0 to M7	2	7	19.9	19.4		22.7	29.7	36	6.3
	HT/VHT20 STBC, M0 to M7	3	7	17.8	17.4	16.8	22.1	29.1	36	6.9
	Non HT40, 6 to 54 Mbps	1	7	17.6			17.6	24.6	36	11.4
	Non HT40, 6 to 54 Mbps	2	7	14	14.1		17.1	24.1	36	11.9
2422	Non HT40, 6 to 54 Mbps	3	7	12	12.1	10.9	16.5	23.5	36	12.5
	HT/VHT40, M0 to M7	1	7	16.8			16.8	23.8	36	12.2
	HT/VHT40, M0 to M7	2	7	14.8	14.9		17.9	24.9	36	11.1
	HT/VHT40, M8 to M15	2	7	14.8	14.9		17.9	24.9	36	11.1
	HT/VHT40, M0 to M7	3	7	14.8	14.9	13.8	19.3	26.3	36	9.7
	HT/VHT40, M8 to M15	3	7	14.8	14.9	13.8	19.3	26.3	36	9.7
	HT/VHT40 Beam Forming, M0 to M7	2	10	13.8	13.9		16.9	26.9	36	9.1

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HT/VHT40 Beam Forming, M8 to M15	2	7	14.8	14.9		17.9	24.9	36	11.1
HT/VHT40 Beam Forming, M0 to M7	3	12	8.8	8.9	7.9	13.3	25.3	36	10.7
HT/VHT40 Beam Forming, M8 to M15	3	9	11.9	12.1	10.9	16.4	25.4	36	10.6
HT/VHT40 STBC, M0 to M7	2	7	14.8	14.9		17.9	24.9	36	11.1
HT/VHT40 STBC, M0 to M7	3	7	14.8	14.9	13.8	19.3	26.3	36	9.7

2437	Non HT40, 6 to 54 Mbps	1	7	24.4			24.4	31.4	36	4.6
2	Non HT40, 6 to 54 Mbps	2	7	24.4	25		27.7	34.7	36	1.3
	Non HT40, 6 to 54 Mbps	3	7	23.3	24.1	22.9	28.2	35.2	36	0.8
	HT/VHT40, M0 to M7	1	7	23.6			23.6	30.6	36	5.4
	HT/VHT40, M0 to M7	2	7	23.6	24.3		27	34	36	2
	HT/VHT40, M8 to M15	2	7	23.6	24.3		27	34	36	2
	HT/VHT40, M0 to M7	3	7	23.6	24.3	23.2	28.5	35.5	36	0.5
	HT/VHT40, M8 to M15	3	7	23.6	24.3	23.2	28.5	35.5	36	0.5
	HT/VHT40 Beam Forming, M0 to M7	2	10	22.4	23.1		25.8	35.8	36	0.2
	HT/VHT40 Beam Forming, M8 to M15	2	7	23.6	24.3		27	34	36	2
	HT/VHT40 Beam Forming, M0 to M7	3	12	18.3	19.4	18.5	23.5	35.5	36	0.5
	HT/VHT40 Beam Forming, M8 to M15	3	9	21.5	22.1	21.1	26.4	35.4	36	0.6
	HT/VHT40 STBC, M0 to M7	2	7	23.6	24.3		27	34	36	2
_	HT/VHT40 STBC, M0 to M7	3	7	23.6	24.3	23.2	28.5	35.5	36	0.5
2437										
	CCK, 1 to 11 Mbps	1	7	23.6			23.6	30.6	36	5.4
	CCK, 1 to 11 Mbps	2	7	23.6	24.4		27	34	36	2
	CCK, 1 to 11 Mbps	3	7	23.6	24.4	23.1	28.5	35.5	36	0.5
	Non HT20, 6 to 54 Mbps	1	7	23.7			23.7	30.7	36	5.3
	Non HT20, 6 to 54 Mbps	2	7	23.7	24.5		27.1	34.1	36	1.9
	Non HT20, 6 to 54 Mbps	3	7	23.7	24.5	23.2	28.6	35.6	36	0.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	22.5	23.2		25.9	35.9	36	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	18.5	19.6	18.4	23.6	35.6	36	0.4
	HT/VHT20, M0 to M7	1	7	23.9			23.9	30.9	36	5.1
	HT/VHT20, M0 to M7	2	7	23.9	24.6		27.3	34.3	36	1.7
	HT/VHT20, M8 to M15	2	7	23.9	24.6		27.3	34.3	36	1.7
	HT/VHT20, M0 to M7	3	7	23.9	24.6	23.3	28.7	35.7	36	0.3
	HT/VHT20, M8 to M15	2	7	23.9	24.6	23.3	27.3	34.3	3	6

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F N	HT/VHT20 Beam Forming, M0 to M7	2								0.3
Λ	ITA/IITOO Daara Faran'aa Mo ta		10	21.6	22.3		25	35	36	1
۱ I ۱	HT/VHT20 Beam Forming, M8 to M15	2	7	23.9	24.6		27.3	34.3	36	1.7
<u> </u>	HT/VHT20 Beam Forming, M0 to M7	3	12	18.6	19.7	18.5	23.7	35.7	36	0.3
	HT/VHT20 Beam Forming, M8 to M15	3	9	21.6	22.3	21.2	26.5	35.5	36	0.5
F	HT/VHT20 STBC, M0 to M7	2	7	23.9	24.6		27.3	34.3	36	1.7
F	HT/VHT20 STBC, M0 to M7	3	7	23.9	24.6	23.3	28.7	35.7	36	0.3
١	Non HT40, 6 to 54 Mbps	1	7	24.1			24.1	31.1	36	4.9
١	Non HT40, 6 to 54 Mbps	2	7	24.1	25.4		27.8	34.8	36	1.2
N	Non HT40, 6 to 54 Mbps	3	7	23.1	24.4	23.5	28.5	35.5	36	0.5
F	HT/VHT40, M0 to M7	1	7	23.1			23.1	30.1	36	5.9
F	HT/VHT40, M0 to M7	2	7	23.1	24.6		26.9	33.9	36	2.1
H	HT/VHT40, M8 to M15	2	7	23.1	24.6		26.9	33.9	36	2.1
) H	HT/VHT40, M0 to M7	3	7	23.1	24.6	23.6	28.6	35.6	36	0.4
2452	HT/VHT40, M8 to M15	3	7	23.1	24.6	23.6	28.6	35.6	36	0.4
	HT/VHT40 Beam Forming, M0 to M7	2	10	21.9	23.4		25.7	35.7	36	0.3
	HT/VHT40 Beam Forming, M8 to M15	2	7	23.1	24.6		26.9	33.9	36	2.1
F	HT/VHT40 Beam Forming, M0 to M7	3	12	18.3	19.8	18.9	23.8	35.8	36	0.2
	HT/VHT40 Beam Forming, M8 to M15	3	9	20.9	22.4	21.5	26.4	35.4	36	0.6
F	HT/VHT40 STBC, M0 to M7	2	7	23.1	24.6		26.9	33.9	36	2.1
F	HT/VHT40 STBC, M0 to M7	3	7	23.1	24.6	23.6	28.6	35.6	36	0.4
C	CCK, 1 to 11 Mbps	1	7	22.9			22.9	29.9	36	6.1
C	CCK, 1 to 11 Mbps	2	7	22.9	23.8		26.4	33.4	36	2.6
C	CCK, 1 to 11 Mbps	3	7	21.8	22.8	22.4	27.1	34.1	36	1.9
١	Non HT20, 6 to 54 Mbps	1	7	18.3			18.3	25.3	36	10.7
١	Non HT20, 6 to 54 Mbps	2	7	14.1	15.1		17.6	24.6	36	11.4
62	Non HT20, 6 to 54 Mbps	3	7	12.1	13.1	12.9	17.5	24.5	36	11.5
Λ	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	10.2	11.2		13.7	23.7	36	12.3
Λ	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	6	7.2	6.9	11.5	23.5	36	12.5
F	HT/VHT20, M0 to M7	1	7	18.4			18.4	25.4	36	10.6
F	HT/VHT20, M0 to M7	2	7	12.3	13.3		15.8	22.8	36	13.2
H	HT/VHT20, M8 to M15	2	7	12.3	13.3		15.8	22.8	36	13.2

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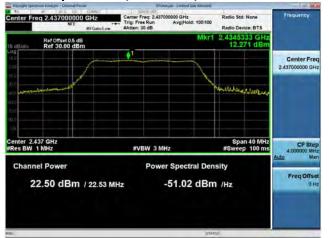


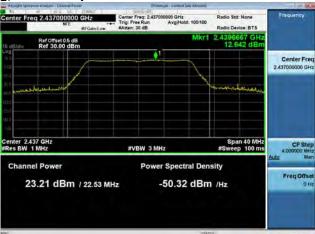
HT/VHT20, M0 to M7	3	7	12.3	13.3	13	17.7	24.7	36	11.3
HT/VHT20, M8 to M15	3	7	12.3	13.3	13	17.7	24.7	36	11.3
HT/VHT20 Beam Forming, M0 to M7	2	10	12.3	13.3		15.8	25.8	36	10.2
HT/VHT20 Beam Forming, M8 to M15	2	7	12.3	13.3		15.8	22.8	36	13.2
HT/VHT20 Beam Forming, M0 to M7	3	12	6.2	7.4	7	11.7	23.7	36	12.3
HT/VHT20 Beam Forming, M8 to M15	3	9	10.3	11.4	10.9	15.7	24.7	36	11.3
HT/VHT20 STBC, M0 to M7	2	7	12.3	13.3		15.8	22.8	36	13.2
HT/VHT20 STBC, M0 to M7	3	7	12.3	13.3	13	17.7	24.7	36	11.3

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Peak Output Power, 2437 MHz, Non HT20 Beam Forming, 6 to 54 Mbps





Antenna A Antenna B



Antenna Gain: 9 dBi

Antenna Gain: 9 dBi											
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Tx 3 Max Power (dBm)	Total Tx Channel Power (dBm)	Total Tx Channel Power (dBm) EIRP	Limit (dBm) EIRP	Margin (dB)	
	CCK, 1 to 11 Mbps	1	9	23.8			23.8	32.8	36	3.2	
	CCK, 1 to 11 Mbps	2	9	23.8	22.9		26.4	35.4	36	0.6	
	CCK, 1 to 11 Mbps	3	9	22.7	21.9	21.4	26.8	35.8	36	0.2	
	Non HT20, 6 to 54 Mbps	1	9	19.7			19.7	28.7	36	7.3	
	Non HT20, 6 to 54 Mbps	2	9	17.6	17.2		20.4	29.4	36	6.6	
	Non HT20, 6 to 54 Mbps	3	9	14	13.3	12.5	18.1	27.1	36	8.9	
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	17.6	17.2		20.4	29.4	36	6.6	
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	13	12.2	11.6	17.1	29.1	36	6.9	
01	HT/VHT20, M0 to M7	1	9	19.9			19.9	28.9	36	7.1	
2412	HT/VHT20, M0 to M7	2	9	17.8	17.4		20.6	29.6	36	6.4	
	HT/VHT20, M8 to M15	2	9	17.8	17.4		20.6	29.6	36	6.4	
	HT/VHT20, M0 to M7	3	9	16.2	15.3	14.6	20.2	29.2	36	6.8	
	HT/VHT20, M8 to M15	3	9	16.2	15.3	14.6	20.2	29.2	36	6.8	
	HT/VHT20 Beam Forming, M0 to M7	2	9	17.8	17.4		20.6	29.6	36	6.4	
	HT/VHT20 Beam Forming, M8 to M15	2	9	17.8	17.4		20.6	29.6	36	6.4	
	HT/VHT20 Beam Forming, M0 to M7	3	12	14.2	13.4	12.6	18.2	30.2	36	5.8	
	HT/VHT20 Beam Forming, M8 to M15	3	9	16.2	15.3	14.6	20.2	29.2	36	6.8	
	HT/VHT20 STBC, M0 to M7	2	9	17.8	17.4		20.6	29.6	36	6.4	
	HT/VHT20 STBC, M0 to M7	3	9	16.2	15.3	14.6	20.2	29.2	36	6.8	
	Non HT40, 6 to 54 Mbps	1	9	14.9			14.9	23.9	36	12.1	
	Non HT40, 6 to 54 Mbps	2	9	12	12.1		15.1	24.1	36	11.9	
	Non HT40, 6 to 54 Mbps	3	9	11	11.1	10	15.5	24.5	36	11.5	
2422	HT/VHT40, M0 to M7	1	9	14.8			14.8	23.8	36	12.2	
24	HT/VHT40, M0 to M7	2	9	14.8	14.9		17.9	26.9	36	9.1	
	HT/VHT40, M8 to M15	2	9	14.8	14.9		17.9	26.9	36	9.1	
	HT/VHT40, M0 to M7	3	9	11.9	12.1	10.9	16.4	25.4	36	10.6	
	HT/VHT40, M8 to M15	3	9	11.9	12.1	10.9	16.4	25.4	36	10.6	

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HT/VHT40 Beam Forming, M0 to M7	2	9	14.8	14.9		17.9	26.9	36	9.1
HT/VHT40 Beam Forming, M8 to M15	2	9	14.8	14.9		17.9	26.9	36	9.1
HT/VHT40 Beam Forming, M0 to M7	3	12	8.8	8.9	7.9	13.3	25.3	36	10.7
HT/VHT40 Beam Forming, M8 to M15	3	9	11.9	12.1	10.9	16.4	25.4	36	10.6
HT/VHT40 STBC, M0 to M7	2	9	14.8	14.9		17.9	26.9	36	9.1
HT/VHT40 STBC, M0 to M7	3	9	11.9	12.1	10.9	16.4	25.4	36	10.6

2437	Non HT40, 6 to 54 Mbps	1	9	24.4			24.4	33.4	36	2.6
2	Non HT40, 6 to 54 Mbps	2	9	23.3	24.1		26.7	35.7	36	0.3
	Non HT40, 6 to 54 Mbps	3	9	21.5	22	21.2	26.4	35.4	36	0.6
	HT/VHT40, M0 to M7	1	9	23.6			23.6	32.6	36	3.4
	HT/VHT40, M0 to M7	2	9	23.6	24.3		27	36	36	0
	HT/VHT40, M8 to M15	2	9	23.6	24.3		27	36	36	0
	HT/VHT40, M0 to M7	3	9	21.5	22.1	21.1	26.4	35.4	36	0.6
	HT/VHT40, M8 to M15	3	9	21.5	22.1	21.1	26.4	35.4	36	0.6
	HT/VHT40 Beam Forming, M0 to M7	2	9	23.6	24.3		27	36	36	0
	HT/VHT40 Beam Forming, M8 to M15	2	9	23.6	24.3		27	36	36	0
	HT/VHT40 Beam Forming, M0 to M7	3	12	18.3	19.4	18.5	23.5	35.5	36	0.5
	HT/VHT40 Beam Forming, M8 to M15	3	9	21.5	22.1	21.1	26.4	35.4	36	0.6
	HT/VHT40 STBC, M0 to M7	2	9	23.6	24.3		27	36	36	0
	HT/VHT40 STBC, M0 to M7	3	9	21.5	22.1	21.1	26.4	35.4	36	0.6
2437										
24	CCK, 1 to 11 Mbps	1	9	23.6			23.6	32.6	36	3.4
	CCK, 1 to 11 Mbps	2	9	22.5	23.4		26	35	36	1
	CCK, 1 to 11 Mbps	3	9	21.5	22.4	21.3	26.5	35.5	36	0.5
	Non HT20, 6 to 54 Mbps	1	9	23.7			23.7	32.7	36	3.3
	Non HT20, 6 to 54 Mbps	2	9	22.5	23.2		25.9	34.9	36	1.1
	Non HT20, 6 to 54 Mbps	3	9	21.5	22.2	21.1	26.4	35.4	36	0.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	22.5	23.2		25.9	34.9	36	1.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	18.5	19.6	18.4	23.6	35.6	36	0.4
	HT/VHT20, M0 to M7	1	9	23.9			23.9	32.9	36	3.1
	HT/VHT20, M0 to M7	2	9	22.6	23.4		26	35	36	1
	HT/VHT20, M8 to M15	2	9	22.6	23.4		26	35	36	1

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	HT/VHT20, M0 to M7	3	9	21.6	22.3	21.2	26.5	35.5	36	0.5
	HT/VHT20, M8 to M15	3	9	21.6	22.3	21.2	26.5	35.5	36	0.5
	HT/VHT20 Beam Forming, M0 to M7	2	9	22.6	23.4		26	35	36	1
	HT/VHT20 Beam Forming, M8 to M15	2	9	22.6	23.4		26	35	36	1
	HT/VHT20 Beam Forming, M0 to M7	3	12	18.6	19.7	18.5	23.7	35.7	36	0.3
	HT/VHT20 Beam Forming, M8 to M15	3	9	21.6	22.3	21.2	26.5	35.5	36	0.5
	HT/VHT20 STBC, M0 to M7	2	9	22.6	23.4		26	35	36	1
	HT/VHT20 STBC, M0 to M7	3	9	21.6	22.3	21.2	26.5	35.5	36	0.5
	Non HT40, 6 to 54 Mbps	1	9	24.1			24.1	33.1	36	2.9
	Non HT40, 6 to 54 Mbps	2	9	23.1	24.4		26.8	35.8	36	0.2
	Non HT40, 6 to 54 Mbps	3	9	21.2	22.6	21.7	26.6	35.6	36	0.4
	HT/VHT40, M0 to M7	1	9	23.1			23.1	32.1	36	3.9
	HT/VHT40, M0 to M7	2	9	23.1	24.6		26.9	35.9	36	0.1
	HT/VHT40, M8 to M15	2	9	23.1	24.6		26.9	35.9	36	0.1
0.1	HT/VHT40, M0 to M7	3	9	20.9	22.4	21.5	26.4	35.4	36	0.6
2452	HT/VHT40, M8 to M15	3	9	20.9	22.4	21.5	26.4	35.4	36	0.6
(1	HT/VHT40 Beam Forming, M0 to M7	2	9	23.1	24.6		26.9	35.9	36	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	9	23.1	24.6		26.9	35.9	36	0.1
	HT/VHT40 Beam Forming, M0 to M7	3	12	18.3	19.8	18.9	23.8	35.8	36	0.2
	HT/VHT40 Beam Forming, M8 to M15	3	9	20.9	22.4	21.5	26.4	35.4	36	0.6
	HT/VHT40 STBC, M0 to M7	2	9	23.1	24.6		26.9	35.9	36	0.1
	HT/VHT40 STBC, M0 to M7	3	9	20.9	22.4	21.5	26.4	35.4	36	0.6
	CCK, 1 to 11 Mbps	1	9	22.9			22.9	31.9	36	4.1
	CCK, 1 to 11 Mbps	2	9	21.8	22.8		25.3	34.3	36	1.7
	CCK, 1 to 11 Mbps	3	9	20	21	20.7	25.4	34.4	36	1.6
	Non HT20, 6 to 54 Mbps	1	9	17.2			17.2	26.2	36	9.8
O.	Non HT20, 6 to 54 Mbps	2	9	12.1	13.1		15.6	24.6	36	11.4
2462	Non HT20, 6 to 54 Mbps	3	9	9.2	10.1	9.9	14.5	23.5	36	12.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	12.1	13.1		15.6	24.6	36	11.4
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	6	7.2	6.9	11.5	23.5	36	12.5
	HT/VHT20, M0 to M7	1	9	17.3			17.3	26.3	36	9.7
	HT/VHT20, M0 to M7	2	9	12.3	13.3		15.8	24.8	36	11.2

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HT/VHT20, M8 to M15	2	9	12.3	13.3		15.8	24.8	36	11.2
HT/VHT20, M0 to M7	3	9	10.3	11.4	10.9	15.7	24.7	36	11.3
HT/VHT20, M8 to M15	3	9	10.3	11.4	10.9	15.7	24.7	36	11.3
HT/VHT20 Beam Forming, M0 to M7	2	9	12.3	13.3		15.8	24.8	36	11.2
HT/VHT20 Beam Forming, M8 to M15	2	9	12.3	13.3		15.8	24.8	36	11.2
HT/VHT20 Beam Forming, M0 to M7	3	12	6.2	7.4	7	11.7	23.7	36	12.3
HT/VHT20 Beam Forming, M8 to M15	3	9	10.3	11.4	10.9	15.7	24.7	36	11.3
HT/VHT20 STBC, M0 to M7	2	9	12.3	13.3		15.8	24.8	36	11.2
HT/VHT20 STBC, M0 to M7	3	9	10.3	11.4	10.9	15.7	24.7	36	11.3



Peak Output Power, 2437 MHz, HT/VHT40, M0 to M7





Antenna A Antenna B



A.4 Power Spectral Density

15.247 / RSS-247 / LP0002:3.10.1(6.2.2) For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10: 2013

Power Spectral Density

Test Procedure

- 1. Set the radio in the continuous transmitting mode at full power
- 2. Configure Spectrum analyzer as per test parameters below and Peak search marker
- 3. Capture graphs and record pertinent measurement data.

Ref. 558074 D01 DTS Meas Guidance v03r05 section 10.2 Peak PSD ANSI C63.10: 2013 section 11.10.2 Peak PSD

Power Spectral Density

Test parameters

Span = >1.5 times the OBW

 $RBW = 3 kHz \le RBW \le 100 kHz$.

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = RMS or where practical sample shall be used

Trace = Trace Average 100

The "Measure and add 10 log(N) dB technique", where N is the number of outputs, is used for measuring in-band Power Spectral Density. With this technique, spectrum measurements are performed at each output of the device, and the quantity 10 log(4) (or 6dB) is added to the worst case spectrum value before comparing to the emission limit. (See ANSI C63.10 section 14.3.2.3)

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

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

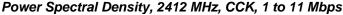
See Appendix C for list of test equipment

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Frequency (MHz)	Mode	Data Rate (Mbps)	PSD / Antenna (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
	CCK, 1 to 11 Mbps	11	0.1	0.1	8.0	7.9
2412	Non HT20, 6 to 54 Mbps	6	-6.3	-6.3	8.0	14.3
	HT/VHT20, M0 to M15	m0	-5.8	-5.8	8.0	13.8
2422	Non HT40, 6 to 54 Mbps	6	-12.4	-12.4	8.0	20.4
2422	HT/VHT40, M0 to M15	m0	-12.2	-12.2	8.0	20.2
	Non HT40, 6 to 54 Mbps	6	-6.8	-6.8	8.0	14.8
	HT/VHT40, M0 to M15	m0	-5.8	-5.8	8.0	13.8
2437	CCK, 1 to 11 Mbps	11	0.1	0.1	8.0	7.9
	Non HT20, 6 to 54 Mbps	6	-4.3	-4.3	8.0	12.3
	HT/VHT20, M0 to M15	m0	-3.8	-3.8	8.0	11.8
2452	Non HT40, 6 to 54 Mbps	6	-5.4	-5.4	8.0	13.4
2452	HT/VHT40, M0 to M15	m0	-6.1	-6.1	8.0	14.1
	CCK, 1 to 11 Mbps	11	-0.7	-0.7	8.0	8.7
2462	Non HT20, 6 to 54 Mbps	6	-8.3	-8.3	8.0	16.3
	HT/VHT20, M0 to M15	m0	-9.0	-9.0	8.0	17.0





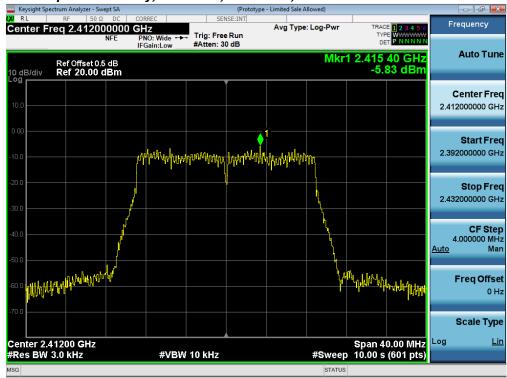


Power Spectral Density, 2412 MHz, Non HT20, 6 to 54 Mbps









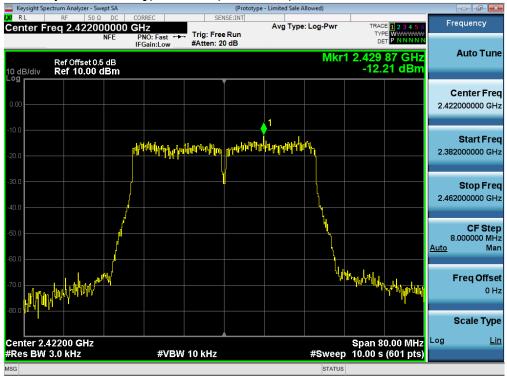
Power Spectral Density, 2422 MHz, Non HT40, 6 to 54 Mbps



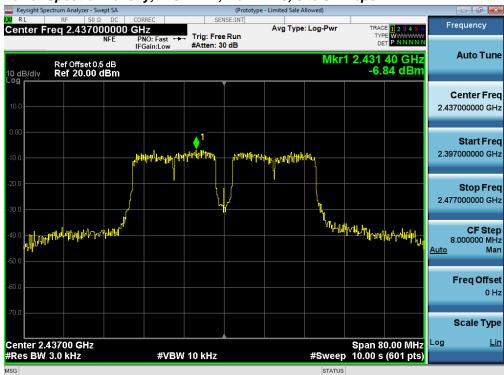
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Power Spectral Density, 2422 MHz, HT/VHT40, M0 to M15



Power Spectral Density, 2437 MHz, Non HT40, 6 to 54 Mbps



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Power Spectral Density, 2437 MHz, HT/VHT40, M0 to M15



Power Spectral Density, 2437 MHz, CCK, 1 to 11 Mbps

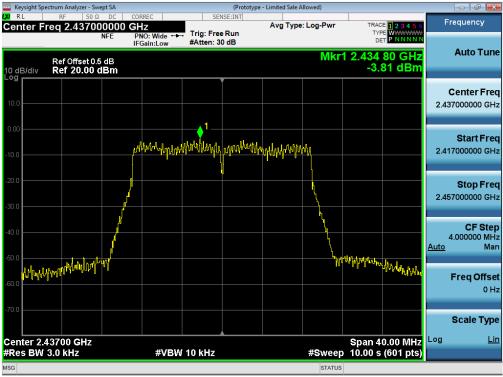




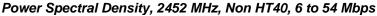
Power Spectral Density, 2437 MHz, Non HT20, 6 to 54 Mbps



Power Spectral Density, 2437 MHz, HT/VHT20, M0 to M15

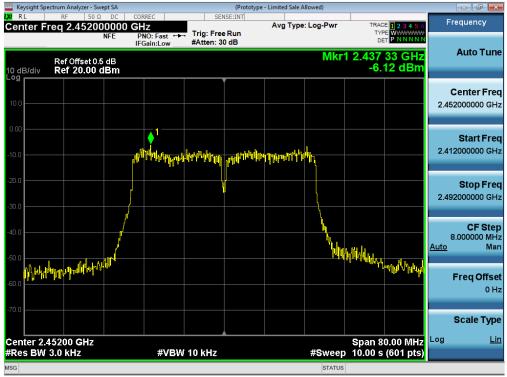






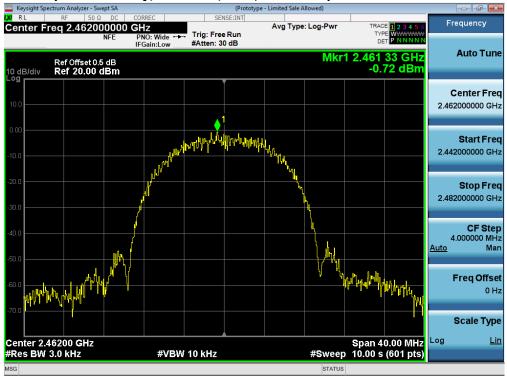


Power Spectral Density, 2452 MHz, HT/VHT40, M0 to M15

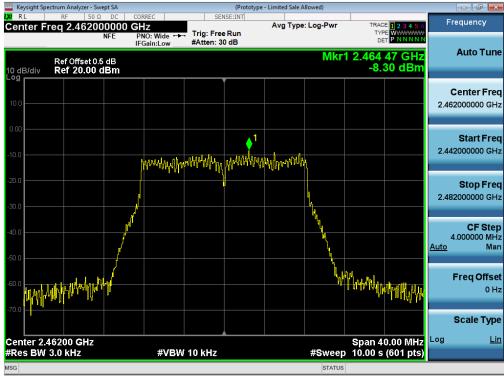






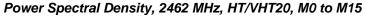


Power Spectral Density, 2462 MHz, Non HT20, 6 to 54 Mbps



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A.5 Conducted Spurious Emissions

15.205 / 15.209 / LP0002 - 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)).

RSS-Gen 8.9: Except when the requirements applicable to a given device state otherwise, emissions from licence-exempt transmitters shall comply with the field strength limits shown in Table 4 and Table 5 below. Additionally, the level of any transmitter emission shall not exceed the level of the transmitter's fundamental emission.

RSS-Gen 8.10 (b) Unwanted emissions that fall into restricted bands of Table 6 shall comply with the limits specified in RSS-Gen; and (c) Unwanted emissions that do not fall within the restricted frequency bands of Table 6 shall comply either with the limits specified in the applicable RSS or with those specified in this RSS-Gen.

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

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

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

Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r05 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
- 3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).
- 4. Use the peak marker function to determine the maximum spurs amplitude level.
- 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. (see ANSI C63.10 2013 section 14.3.2.2)
- 6. Capture graphs and record pertinent measurement data.

Ref. 558074 D01 DTS Meas Guidance v03r05 section 11.1b, 11.2-3, 12.2.4 & 12.2.5.3 ANSI C63.10: 2013 section 11.10.3 & 11.12.2.4 & 11.12.2.5.3

Conducted Spurious Emissions

Test parameters

Span = 30 MHz-26 GHz

RBW = 100 kHz.

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = Peak

Trace = Max Hold

KDB: 558074 D01 DTS Meas Guidance v03r05 section 12.2.2 © add the max antenna gain + ground reflection factor (4.7 dB for frequencies between 30 MHz and 1000 MHz, and 0 dB for frequencies > 1000 MHz).

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System Number	Description	Samples	System under test	Support equipment
	EUT	S01	✓	
1	Support	S02		✓

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment



Conducted Spurs Average Upper, All Antennas



Conducted Spurs Peak Upper, All Antennas





Conducted Spurious Emission results below represent the worst case for all antenna gain

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Tx 3 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	CCK, 1 to 11 Mbps	1	9	-73.6			-64.6	-41.25	23.4
	CCK, 1 to 11 Mbps	2	9	-73.6	-73.2		-61.4	-41.25	20.1
	CCK, 1 to 11 Mbps	3	9	-71.3	-73.6	-77.4	-59.7	-41.25	18.4
	Non HT20, 6 to 54 Mbps	1	9	-73.5			-64.5	-41.25	23.3
	Non HT20, 6 to 54 Mbps	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	Non HT20, 6 to 54 Mbps	3	9	-73.7	-73.7	-73.5	-59.9	-41.25	18.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-73.3	-73.3	-73.2	-56.5	-41.25	15.2
2	HT/VHT20, M0 to M7	1	9	-73.5			-64.5	-41.25	23.3
2412	HT/VHT20, M0 to M7	2	9	-73.5	-73.7		-61.6	-41.25	20.3
(1	HT/VHT20, M8 to M15	2	9	-73.5	-73.7		-61.6	-41.25	20.3
	HT/VHT20, M0 to M7	3	9	-73.8	-71.2	-73.4	-58.9	-41.25	17.6
	HT/VHT20, M8 to M15	3	9	-73.8	-71.2	-73.4	-58.9	-41.25	17.6
	HT/VHT20 Beam Forming, M0 to M7	2	9	-73.5	-73.7		-61.6	-41.25	20.3
	HT/VHT20 Beam Forming, M8 to M15	2	9	-73.5	-73.7		-61.6	-41.25	20.3
	HT/VHT20 Beam Forming, M0 to M7	3	12	-73.6	-73.7	-73.5	-56.8	-41.25	15.6
	HT/VHT20 Beam Forming, M8 to M15	3	9	-73.8	-71.2	-73.4	-58.9	-41.25	17.6
	HT/VHT20 STBC, M0 to M7	2	9	-73.5	-73.7		-61.6	-41.25	20.3
	HT/VHT20 STBC, M0 to M7	3	9	-73.8	-71.2	-73.4	-58.9	-41.25	17.6
	Non HT40, 6 to 54 Mbps	1	9	-73.7			-64.7	-41.25	23.5
	Non HT40, 6 to 54 Mbps	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	Non HT40, 6 to 54 Mbps	3	9	-73.9	-73.5	-73.8	-60.0	-41.25	18.7
	HT/VHT40, M0 to M7	1	9	-73.8			-64.8	-41.25	23.6
	HT/VHT40, M0 to M7	2	9	-73.8	-73.5		-61.6	-41.25	20.4
	HT/VHT40, M8 to M15	2	9	-73.8	-73.5		-61.6	-41.25	20.4
22	HT/VHT40, M0 to M7	3	9	-78.2	-73.5	-73.4	-60.8	-41.25	19.5
2422	HT/VHT40, M8 to M15	3	9	-78.2	-73.5	-73.4	-60.8	-41.25	19.5
	HT/VHT40 Beam Forming, M0 to M7	2	9	-73.8	-73.5		-61.6	-41.25	20.4
	HT/VHT40 Beam Forming, M8 to M15	2	9	-73.8	-73.5		-61.6	-41.25	20.4
	HT/VHT40 Beam Forming, M0 to M7	3	12	-73.4	-72.8	-73.0	-56.3	-41.25	15.0
	HT/VHT40 Beam Forming, M8 to M15	3	9	-78.2	-73.5	-73.4	-60.8	-41.25	19.5
	HT/VHT40 STBC, M0 to M7	2	9	-73.8	-73.5		-61.6	-41.25	20.4
	HT/VHT40 STBC, M0 to M7	3	9	-78.2	-73.5	-73.4	-60.8	-41.25	19.5

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	Non HT40, 6 to 54 Mbps	1	9	-71.5			-62.5	-41.25	21.3
	Non HT40, 6 to 54 Mbps	2	9	-73.2	-73.4		-61.3	-41.25	20.0
	Non HT40, 6 to 54 Mbps	3	9	-73.6	-73.0	-71.6	-58.9	-41.25	17.6
	HT/VHT40, M0 to M7	1	9	-73.8			-64.8	-41.25	23.6
	HT/VHT40, M0 to M7	2	9	-73.8	-73.4		-61.6	-41.25	20.3
	HT/VHT40, M8 to M15	2	9	-73.8	-73.4		-61.6	-41.25	20.3
	HT/VHT40, M0 to M7	3	9	-73.6	-73.5	-76.3	-60.5	-41.25	19.3
	HT/VHT40, M8 to M15	3	9	-73.6	-73.5	-76.3	-60.5	-41.25	19.3
	HT/VHT40 Beam Forming, M0 to M7	2	9	-73.8	-73.4		-61.6	-41.25	20.3
	HT/VHT40 Beam Forming, M8 to M15	2	9	-73.8	-73.4		-61.6	-41.25	20.3
	HT/VHT40 Beam Forming, M0 to M7	3	12	-71.7	-71.4	-71.5	-54.8	-41.25	13.5
	HT/VHT40 Beam Forming, M8 to M15	3	9	-73.6	-73.5	-76.3	-60.5	-41.25	19.3
	HT/VHT40 STBC, M0 to M7	2	9	-73.8	-73.4		-61.6	-41.25	20.3
	HT/VHT40 STBC, M0 to M7	3	9	-73.6	-73.5	-76.3	-60.5	-41.25	19.3
	CCK, 1 to 11 Mbps	1	9	-73.6			-64.6	-41.25	23.4
	CCK, 1 to 11 Mbps	2	9	-73.8	-73.1		-61.4	-41.25	20.2
2437	CCK, 1 to 11 Mbps	3	9	-76.2	-73.6	-71.6	-59.6	-41.25	18.4
7	Non HT20, 6 to 54 Mbps	1	9	-73.0			-64.0	-41.25	22.8
	Non HT20, 6 to 54 Mbps	2	9	-73.6	-73.1		-61.3	-41.25	20.1
	Non HT20, 6 to 54 Mbps	3	9	-76.4	-76.3	-73.7	-61.5	-41.25	20.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-73.6	-73.1		-61.3	-41.25	20.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-73.5	-73.5	-73.3	-56.7	-41.25	15.4
	HT/VHT20, M0 to M7	1	9	-73.4			-64.4	-41.25	23.2
	HT/VHT20, M0 to M7	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	HT/VHT20, M8 to M15	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	HT/VHT20, M0 to M7	3	9	-73.2	-73.5	-73.4	-59.6	-41.25	18.3
	HT/VHT20, M8 to M15	3	9	-73.2	-73.5	-73.4	-59.6	-41.25	18.3
	HT/VHT20 Beam Forming, M0 to M7	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	HT/VHT20 Beam Forming, M8 to M15	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	HT/VHT20 Beam Forming, M0 to M7	3	12	-73.6	-71.4	-73.5	-55.9	-41.25	14.7
	HT/VHT20 Beam Forming, M8 to M15	3	9	-73.2	-73.5	-73.4	-59.6	-41.25	18.3
	HT/VHT20 STBC, M0 to M7	2	9	-73.2	-73.5		-61.3	-41.25	20.1
	HT/VHT20 STBC, M0 to M7	3	9	-73.2	-73.5	-73.4	-59.6	-41.25	18.3
	Non HT40, 6 to 54 Mbps	1	9	-68.2			-59.2	-41.25	18.0
	Non HT40, 6 to 54 Mbps	2	9	-69.7	-71.5		-58.5	-41.25	17.2
O	Non HT40, 6 to 54 Mbps	3	9	-71.0	-73.5	-72.7	-58.5	-41.25	17.3
2452	HT/VHT40, M0 to M7	1	9	-70.0			-61.0	-41.25	19.8
()	HT/VHT40, M0 to M7	2	9	-70.0	-73.1		-59.3	-41.25	18.0
	HT/VHT40, M8 to M15	2	9	-70.0	-73.1		-59.3	-41.25	18.0
	HT/VHT40, M0 to M7	3	9	-71.0	-73.7	-73.1	-58.7	-41.25	17.4

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	HT/VHT40, M8 to M15	3	9	-71.0	-73.7	-73.1	-58.7	-41.25	17.4
	HT/VHT40 Beam Forming, M0 to M7	2	9	-70.0	-73.1		-59.3	-41.25	18.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	-70.0	-73.1		-59.3	-41.25	18.0
	HT/VHT40 Beam Forming, M0 to M7	3	12	-73.9	-71.5	-73.5	-56.1	-41.25	14.8
	HT/VHT40 Beam Forming, M8 to M15	3	9	-71.0	-73.7	-73.1	-58.7	-41.25	17.4
	HT/VHT40 STBC, M0 to M7	2	9	-70.0	-73.1		-59.3	-41.25	18.0
	HT/VHT40 STBC, M0 to M7	3	9	-71.0	-73.7	-73.1	-58.7	-41.25	17.4
	CCK, 1 to 11 Mbps	1	9	-73.6			-64.6	-41.25	23.4
	CCK, 1 to 11 Mbps	2	9	-73.8	-76.2		-62.8	-41.25	21.6
	CCK, 1 to 11 Mbps	3	9	-73.9	-73.8	-73.0	-59.8	-41.25	18.5
	Non HT20, 6 to 54 Mbps	1	9	-73.3			-64.3	-41.25	23.1
	Non HT20, 6 to 54 Mbps	2	9	-73.6	-71.7		-60.5	-41.25	19.3
	Non HT20, 6 to 54 Mbps	3	9	-73.3	-73.7	-73.3	-59.7	-41.25	18.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-73.6	-71.7		-60.5	-41.25	19.3
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-73.3	-71.7	-73.2	-55.9	-41.25	14.6
	HT/VHT20, M0 to M7	1	9	-77.4			-68.4	-41.25	27.2
2462	HT/VHT20, M0 to M7	2	9	-73.5	-73.4		-61.4	-41.25	20.2
0	HT/VHT20, M8 to M15	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	HT/VHT20, M0 to M7	3	9	-73.5	-77.7	-73.8	-60.9	-41.25	19.6
	HT/VHT20, M8 to M15	3	9	-73.5	-77.7	-73.8	-60.9	-41.25	19.6
	HT/VHT20 Beam Forming, M0 to M7	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	HT/VHT20 Beam Forming, M8 to M15	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	HT/VHT20 Beam Forming, M0 to M7	3	12	-73.6	-73.5	-73.4	-56.7	-41.25	15.5
	HT/VHT20 Beam Forming, M8 to M15	3	9	-73.5	-77.7	-73.8	-60.9	-41.25	19.6
	HT/VHT20 STBC, M0 to M7	2	9	-73.5	-73.4		-61.4	-41.25	20.2
	HT/VHT20 STBC, M0 to M7	3	9	-73.5	-77.7	-73.8	-60.9	-41.25	19.6



Conducted Spurs Average, 2437 MHz, HT/VHT40 Beam Forming, M0 to M7





Antenna A

Antenna B



Antenna C



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Tx 3 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	CCK, 1 to 11 Mbps	1	9	-60.6			-51.6	-21.25	30.4
	CCK, 1 to 11 Mbps	2	9	-60.6	-59.7		-48.1	-21.25	26.9
	CCK, 1 to 11 Mbps	3	9	-53.8	-53.8	-61.4	-41.4	-21.25	20.2
	Non HT20, 6 to 54 Mbps	1	9	-61.7			-52.7	-21.25	31.5
	Non HT20, 6 to 54 Mbps	2	9	-60.4	-52.9		-43.2	-21.25	21.9
	Non HT20, 6 to 54 Mbps	3	9	-60.9	-61.5	-60.9	-47.3	-21.25	26.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-60.4	-52.9		-43.2	-21.25	21.9
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-53.6	-60.1	-61.4	-40.2	-21.25	18.9
2	HT/VHT20, M0 to M7	1	9	-59.7			-50.7	-21.25	29.5
2412	HT/VHT20, M0 to M7	2	9	-61.2	-53.7		-44.0	-21.25	22.7
(4	HT/VHT20, M8 to M15	2	9	-61.2	-53.7		-44.0	-21.25	22.7
	HT/VHT20, M0 to M7	3	9	-60.6	-53.3	-61.3	-43.0	-21.25	21.8
	HT/VHT20, M8 to M15	3	9	-60.6	-53.3	-61.3	-43.0	-21.25	21.8
	HT/VHT20 Beam Forming, M0 to M7	2	9	-61.2	-53.7		-44.0	-21.25	22.7
	HT/VHT20 Beam Forming, M8 to M15	2	9	-61.2	-53.7		-44.0	-21.25	22.7
	HT/VHT20 Beam Forming, M0 to M7	3	12	-61.1	-61.5	-62.9	-45.0	-21.25	23.7
	HT/VHT20 Beam Forming, M8 to M15	3	9	-60.6	-53.3	-61.3	-43.0	-21.25	21.8
	HT/VHT20 STBC, M0 to M7	2	9	-61.2	-53.7		-44.0	-21.25	22.7
	HT/VHT20 STBC, M0 to M7	3	9	-60.6	-53.3	-61.3	-43.0	-21.25	21.8
	Non HT40, 6 to 54 Mbps	1	9	-62.2			-53.2	-21.25	32.0
	Non HT40, 6 to 54 Mbps	2	9	-61.3	-61.8		-49.5	-21.25	28.3
	Non HT40, 6 to 54 Mbps	3	9	-53.5	-53.6	-53.1	-39.6	-21.25	18.4
	HT/VHT40, M0 to M7	1	9	-54.0			-45.0	-21.25	23.8
	HT/VHT40, M0 to M7	2	9	-54.0	-61.3		-44.3	-21.25	23.0
	HT/VHT40, M8 to M15	2	9	-54.0	-61.3		-44.3	-21.25	23.0
2422	HT/VHT40, M0 to M7	3	9	-60.5	-61.4	-62.1	-47.5	-21.25	26.3
24	HT/VHT40, M8 to M15	3	9	-60.5	-61.4	-62.1	-47.5	-21.25	26.3
	HT/VHT40 Beam Forming, M0 to M7	2	9	-54.0	-61.3		-44.3	-21.25	23.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	-54.0	-61.3		-44.3	-21.25	23.0
	HT/VHT40 Beam Forming, M0 to M7	3	12	-53.7	-61.1	-63.1	-40.6	-21.25	19.3
	HT/VHT40 Beam Forming, M8 to M15	3	9	-60.5	-61.4	-62.1	-47.5	-21.25	26.3
	HT/VHT40 STBC, M0 to M7	2	9	-54.0	-61.3		-44.3	-21.25	23.0
	HT/VHT40 STBC, M0 to M7	3	9	-60.5	-61.4	-62.1	-47.5	-21.25	26.3

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Non HT40, 6 to 54 Mbps										
Non HT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 SEB, M0 to M7 HT/VHT40, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20 Beam Forming,			1							
HT/VHT40, M0 to M7		Non HT40, 6 to 54 Mbps	2						-21.25	
HT/VHT40, M0 to M7 HT/VHT40, M0 to M15 HT/VHT40, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 SEBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 M0 to M7 HT/VHT40 M0 to M7 HT/VHT40 M0 to M7 HT/VHT4		Non HT40, 6 to 54 Mbps	3		-60.2	-59.8	-62.0	-46.8	-21.25	25.5
### HT/WHT40, M8 to M15		HT/VHT40, M0 to M7	1	9	-59.3			-50.3		29.1
HT/VHT40, M0 to M7 HT/VHT40, M0 to M15 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.1 HT/VHT40 Beam Forming, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 3 12 -62.3 -53.5 -62.6 -40.5 -21.25 19.3 HT/VHT40 Beam Forming, M8 to M15 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.6 HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 2 9 -63.9 -62.7 -62.4 -48.4 -21.25 27.1 CCK, 1 to 11 Mbps 1 9 -62.1 -53.1 -21.25 31.9 CCK, 1 to 11 Mbps 2 9 -63.9 -62.8 -51.3 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.0 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.0 -62.0 -48.2 -21.25 22.0 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.1 -50.7 -21.25 29.5 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.1 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -40.0 -40.0 -21.25 28.8 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 1 9 -60.0 -50.1 -40.0 -41.2		HT/VHT40, M0 to M7	2	9	-59.3	-63.4		-48.9	-21.25	27.6
HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 PARTITION BEAM FORMING, M0 to M7 PARTITION, M0 to M		HT/VHT40, M8 to M15	2	9	-59.3	-63.4		-48.9	-21.25	27.6
HT/VHT40 Beam Forming, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 3 12 -62.3 -53.5 -62.6 -40.5 -21.25 19.3 HT/VHT40 Beam Forming, M8 to M15 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.6 HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.1 CCK, 1 to 11 Mbps 1 9 -62.1 -53.1 -21.25 31.9 CCK, 1 to 11 Mbps 2 9 -63.9 -62.8 -51.3 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 32.0 Non HT20, 6 to 54 Mbps 3 9 -61.5 -62.2 -63.1 -50.7 -21.25 28.8 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 26.8 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 26.8 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 28.8 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20, 8 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20, 8 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20, 8 to 54 Mbps 3 12 -53.3 -62.6 -62.1 -49.0 -21.25 29.5 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.5 HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 SBEC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 SBEC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 SBEC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 SBEC, M0 to M7 3 9 -63.5 -61.0 -50.1 -21.25 28.8 Non HT40, 6 to 54 Mbps 3 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7		HT/VHT40, M0 to M7	3	9	-61.5	-62.7	-62.4	-48.4	-21.25	27.1
HT/VHT40 Beam Forming, M8 to M15 PART		HT/VHT40, M8 to M15	3	9	-61.5	-62.7	-62.4	-48.4	-21.25	27.1
HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.1 HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.1 CCK, 1 to 11 Mbps 1 9 -62.1 -53.1 -21.25 31.9 CCK, 1 to 11 Mbps 2 9 -63.9 -62.8 -51.3 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 27.0 Non HT20, 6 to 54 Mbps 1 9 -62.2 -53.2 -21.25 32.0 Non HT20, 6 to 54 Mbps 2 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.0 -21.25 29.8 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.8 HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -62.6 -62.1 -49.0 -21.25 27.8 HT/VHT20 SBC, M0 to M7 3 9 -62.6 -62.1 -49.0 -21.25 27.8 HT/VHT20 SBC, M0 to M7 3 9 -63.5 -61.0 -60.7 -47.4 -21.25 26.2 HT/VHT20 SBC, M0 to M7 3 9 -63.5 -61.0 -60.7 -47.4 -21.25 26.2 HT/VHT20 SBC, M0 to M7 3 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT20 SBC, M0 to M7 3 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 4 9 -62.6 -62.1 -49.0 -21.25 27.4 HT/VHT40, M0 to M7 4 9 -62.6 -62.4 -49.1 -21.25 27.4 HT/VHT40, M0 to M7 5 9 -63.5 -61.0 -50.5 -50.1 -21.25 28.		HT/VHT40 Beam Forming, M0 to M7	2	9	-59.3	-63.4		-48.9	-21.25	27.6
HT/VHT40 Beam Forming, M8 to M15		HT/VHT40 Beam Forming, M8 to M15	2	9	-59.3	-63.4		-48.9	-21.25	27.6
HT/VHT40 STBC, M0 to M7 2 9 -59.3 -63.4 -48.9 -21.25 27.6 HT/VHT40 STBC, M0 to M7 3 9 -61.5 -62.7 -62.4 -48.4 -21.25 27.1 CCK, 1 to 11 Mbps 1 9 -62.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 32.0 Non HT20, 6 to 54 Mbps 1 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 19 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 29.5 HT/VHT20, M0 to M7 1 1 9 -60.0 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 2 1 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 3 9 -63.5 -61.0 -49.5 -21.25 23.3 Non HT40, 6 to 54 Mbps 3 9 -63.5 -61.0 -50.1 -21.25 28.8 Non HT40, M0 to M7 1 9 -63.6 -62.4 -49.1 -21.25 28.8 Non HT40, M0 to M7 3 9 -63.6 -62.6 -62.4 -49.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.6 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M0 to M7 3 9 -63.5 -61.0 -50.1 -21.25 28.8		HT/VHT40 Beam Forming, M0 to M7	3	12	-62.3	-53.5	-62.6	-40.5	-21.25	19.3
HT/VHT40 STBC, M0 to M7 CCK, 1 to 11 Mbps 1 9 -62.153.1 -21.25 31.9 CCK, 1 to 11 Mbps 2 9 -63.9 -62.8 -51.3 -21.25 30.1 CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 30.1 Non HT20, 6 to 54 Mbps 1 9 -62.253.2 -21.25 32.0 Non HT20, 6 to 54 Mbps 2 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 19 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 29.8 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.8 HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20, M10 to M7 1 9 -62.6 -62.1 -49.0 -21.25 27.8 HT/VHT20, M10 to M7 1 9 -63.5 -61.0 -53.6 -21.25 33.3 Non HT40, 6 to 54 Mbps 3 9 -63.5 -61.0 -50.1 -21.25 28.8 Non HT40, M10 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M10 to M7 3 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M10 to M7 3 9 -63.5 -61.0 -50.4 -49.1 -21.25 27.9		HT/VHT40 Beam Forming, M8 to M15	3	9	-61.5	-62.7	-62.4	-48.4	-21.25	27.1
CCK, 1 to 11 Mbps CCK, 1 to 11		HT/VHT40 STBC, M0 to M7	2	9	-59.3	-63.4		-48.9	-21.25	27.6
CCK, 1 to 11 Mbps CCK, 1 to 11 Ps. 63.9		HT/VHT40 STBC, M0 to M7	3	9	-61.5	-62.7	-62.4	-48.4	-21.25	27.1
CCK, 1 to 11 Mbps 3 9 -61.2 -63.0 -62.0 -48.2 -21.25 27.0 Non HT20, 6 to 54 Mbps 1 9 -62.2 -53.2 -21.25 32.0 Non HT20, 6 to 54 Mbps 2 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 26.8 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 19.1 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.8 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -63.1 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -63.5 -61.0 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 4 9 -63.5 -53.6 -21.25 33.4 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -49.0 -21.25 27.8 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 9 -63.5 -61.0 -50.1 -21.25 27.9 HT/VHT40, M0 to M7 4 17/HT40, M8 to M15 4 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15		CCK, 1 to 11 Mbps	1	9	-62.1			-53.1	-21.25	31.9
Non HT20, 6 to 54 Mbps	_	CCK, 1 to 11 Mbps	2	9	-63.9	-62.8		-51.3	-21.25	30.1
Non HT20, 6 to 54 Mbps	43	CCK, 1 to 11 Mbps	3	9	-61.2	-63.0	-62.0	-48.2	-21.25	27.0
Non HT20, 6 to 54 Mbps 3 9 -61.5 -63.2 -61.0 -48.0 -21.25 26.8 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -62.4 -63.1 -50.7 -21.25 29.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 19.1 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.8 HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -62.1 -49.0 -21.25 27.8 Non HT40, 6 to 54 Mbps 3 9 -63.5 -61.0 -49.5 -21.25 28.3 Non HT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4	2	Non HT20, 6 to 54 Mbps	1	9	-62.2			-53.2	-21.25	32.0
Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -62.4 -63.1 -50.7 -21.25 29.5		Non HT20, 6 to 54 Mbps	2	9	-62.4	-63.1		-50.7	-21.25	29.5
Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -53.3 -62.2 -63.2 -40.4 -21.25 19.1 HT/VHT20, M0 to M7 1 9 -60.0 -51.0 -21.25 29.8 HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -62.1 -49.0 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.0 -49.5 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		Non HT20, 6 to 54 Mbps	3	9	-61.5	-63.2	-61.0	-48.0	-21.25	26.8
HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -60.7 -47.4 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.0 -49.5 -21.25 28.3 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-62.4	-63.1		-50.7	-21.25	29.5
HT/VHT20, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 3 9 -62.6 -60.1 -49.0 -21.25 27.8 Non HT40, 6 to 54 Mbps 1 9 -62.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.0 -49.5 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-53.3	-62.2	-63.2	-40.4	-21.25	19.1
HT/VHT20, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 18.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 NON HT40, 6 to 54 Mbps 1 9 -62.6 -62.1 -49.0 -21.25 28.3 NON HT40, 6 to 54 Mbps 1 9 -62.6 -62.2 -61.0 -49.5 -21.25 28.3 NON HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.0 -50.1 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20, M0 to M7	1	9	-60.0			-51.0	-21.25	29.8
HT/VHT20, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 18.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -62.1 -49.0 -21.25 27.8 Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20, M0 to M7	2	9	-60.2	-62.1		-49.0	-21.25	27.8
HT/VHT20, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 Beam Forming, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M8 to M15 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.2 -53.4 -60.2 -40.0 -21.25 18.8 HT/VHT20 Beam Forming, M8 to M15 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20, M8 to M15	2	9	-60.2	-62.1		-49.0	-21.25	27.8
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, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT40, M0 to M15		HT/VHT20, M0 to M7	3	9	-61.3	-61.6	-60.7	-47.4	-21.25	26.2
HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, 6 to 54 Mbps 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, M0 to M7 HT/VHT40, M0 to M15 HT/VHT40, M0 to M15		HT/VHT20, M8 to M15	3	9	-61.3	-61.6	-60.7	-47.4	-21.25	26.2
HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, G to 54 Mbps HT/VHT40, G 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, M0 to M7 HT/VHT40, M0 to M15		HT/VHT20 Beam Forming, M0 to M7	2	9	-60.2	-62.1		-49.0	-21.25	27.8
HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Which is a second		HT/VHT20 Beam Forming, M8 to M15	2	9	-60.2	-62.1		-49.0	-21.25	27.8
HT/VHT20 STBC, M0 to M7 2 9 -60.2 -62.1 -49.0 -21.25 27.8 HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -53.6 -21.25 32.4 Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20 Beam Forming, M0 to M7	3	12	-61.2	-53.4	-60.2	-40.0	-21.25	18.8
HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -53.6 -21.25 32.4 Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20 Beam Forming, M8 to M15	3	9	-61.3	-61.6	-60.7	-47.4	-21.25	26.2
HT/VHT20 STBC, M0 to M7 3 9 -61.3 -61.6 -60.7 -47.4 -21.25 26.2 Non HT40, 6 to 54 Mbps 1 9 -62.6 -53.6 -21.25 32.4 Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		HT/VHT20 STBC, M0 to M7	2	9	-60.2	-62.1		-49.0	-21.25	27.8
Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9			3	9	-61.3	-61.6	-60.7	-47.4	-21.25	26.2
Non HT40, 6 to 54 Mbps 2 9 -62.2 -61.0 -49.5 -21.25 28.3 Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -61.0 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		·								
Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		Non HT40, 6 to 54 Mbps	1	9	-62.6			-53.6	-21.25	32.4
Non HT40, 6 to 54 Mbps 3 9 -63.1 -62.3 -61.9 -48.6 -21.25 27.4 HT/VHT40, M0 to M7 1 9 -63.5 -54.5 -21.25 33.3 HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9			2			-61.0				
HT/VHT40, M0 to M7 1 9 -63.5			_				-61.9			
HT/VHT40, M0 to M7 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9		·	H							
HT/VHT40, M8 to M15 2 9 -63.5 -61.0 -50.1 -21.25 28.8 HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9	452		2			-61.0				
HT/VHT40, M0 to M7 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9 HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9	2		_							
HT/VHT40, M8 to M15 3 9 -63.9 -62.6 -62.4 -49.1 -21.25 27.9			-				-62.4			
			_							
		HT/VHT40 Beam Forming, M0 to M7	2	9	-63.5	-61.0		-50.1	-21.25	28.8

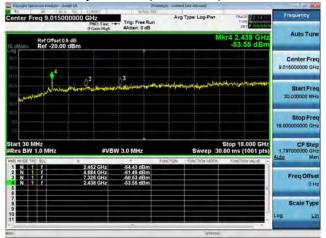
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	HT/VHT40 Beam Forming, M8 to M15	2	9	-63.5	-61.0		-50.1	-21.25	28.8
	HT/VHT40 Beam Forming, M0 to M7	3	12	-53.5	-51.9	-61.1	-37.3	-21.25	16.1
	HT/VHT40 Beam Forming, M8 to M15	3	9	-63.9	-62.6	-62.4	-49.1	-21.25	27.9
	HT/VHT40 STBC, M0 to M7	2	9	-63.5	-61.0		-50.1	-21.25	28.8
	HT/VHT40 STBC, M0 to M7	3	9	-63.9	-62.6	-62.4	-49.1	-21.25	27.9
	,								
	CCK, 1 to 11 Mbps	1	9	-61.4			-52.4	-21.25	31.2
	CCK, 1 to 11 Mbps	2	9	-63.2	-62.6		-50.9	-21.25	29.6
	CCK, 1 to 11 Mbps	3	9	-63.1	-62.3	-62.9	-49.0	-21.25	27.7
	Non HT20, 6 to 54 Mbps	1	9	-62.5			-53.5	-21.25	32.3
	Non HT20, 6 to 54 Mbps	2	9	-53.6	-62.7		-44.1	-21.25	22.8
	Non HT20, 6 to 54 Mbps	3	9	-60.8	-53.9	-53.6	-41.3	-21.25	20.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-53.6	-62.7		-44.1	-21.25	22.8
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-53.6	-62.1	-61.5	-40.4	-21.25	19.2
8	HT/VHT20, M0 to M7	1	9	-62.3			-53.3	-21.25	32.1
2462	HT/VHT20, M0 to M7	2	9	-62.6	-62.4		-50.5	-21.25	29.2
(1	HT/VHT20, M8 to M15	2	9	-62.6	-62.4		-50.5	-21.25	29.2
	HT/VHT20, M0 to M7	3	9	-53.9	-61.2	-62.7	-43.7	-21.25	22.5
	HT/VHT20, M8 to M15	3	9	-53.9	-61.2	-62.7	-43.7	-21.25	22.5
	HT/VHT20 Beam Forming, M0 to M7	2	9	-62.6	-62.4		-50.5	-21.25	29.2
	HT/VHT20 Beam Forming, M8 to M15	2	9	-62.6	-62.4		-50.5	-21.25	29.2
	HT/VHT20 Beam Forming, M0 to M7	3	12	-53.6	-60.1	-54.0	-38.3	-21.25	17.1
	HT/VHT20 Beam Forming, M8 to M15	3	9	-53.9	-61.2	-62.7	-43.7	-21.25	22.5
	HT/VHT20 STBC, M0 to M7	2	9	-62.6	-62.4		-50.5	-21.25	29.2
	HT/VHT20 STBC, M0 to M7	3	9	-53.9	-61.2	-62.7	-43.7	-21.25	22.5



Conducted Spurs Peak, 2452 MHz, HT/VHT40 Beam Forming, M0 to M7





Antenna A

Antenna B



Antenna C



A.6 Conducted Bandedge

15.205 / 15.247 / RSS-Gen / RSS-247 / LP0002:3.10.1(5) & 2.8 In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), and RSS-Gen 8.10 must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)) and RSS-Gen 8.9.

Test Procedure

Ref. KDB 558074 D01 DTS Meas Guidance v03r05 ANSI C63.10: 2013

Conducted Band edge

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 558074 D01 DTS Meas Guidance v03r05 to substitute conducted measurements in place of radiated measurements.
- 3. Configure Spectrum analyzer as per test parameters below 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.

Conducted Bandedge	Conducted Bandedge
Test parameters non-restricted Band	Test parameters restricted Band
KDB 558074 D01 v03r05 section 11.1b, 11.2-3, also see	KDB 558074 D01 v03r05 section 12.2.4 & 12.2.5.3 also
ANSI C63.10: 2013 section 11.10.3	see ANSI C63.10: 2013 section 11.12.4 & 11.12.5.3
RBW = 100 kHz	RBW = 1 MHz
VBW ≥ 3 x RBW	VBW ≥ 3 x RBW for Peak, 100Hz for Average
Sweep = Auto couple	Sweep = Auto couple
Detector = Peak	Detector = Peak
Trace = Max Hold.	Trace = Max Hold.



System Number	Description	Samples	System under test	Support equipment
_	EUT	S01	S	
1	Support	S02		S

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment



Conducted Bandedge (Restricted Band) Antenna Gain: 7 dBi

	Antenna Gain: 7 dBi								
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	CCK, 1 to 11 Mbps	1	7	-55.2			-48.2	-41.25	7.0
	CCK, 1 to 11 Mbps	2	7	-55.2	-55.1		-45.1	-41.25	3.9
	CCK, 1 to 11 Mbps	3	7	-55.2	-55.1	-57.1	-43.9	-41.25	2.7
	Non HT20, 6 to 54 Mbps	1	7	-49.8			-42.8	-41.25	1.6
	Non HT20, 6 to 54 Mbps	2	7	-52.7	-53.7		-43.2	-41.25	1.9
	Non HT20, 6 to 54 Mbps	3	7	-52.7	-53.7	-55.4	-42.0	-41.25	0.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	-55.1	-56.0		-42.5	-41.25	1.3
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-61.5	-63.2	-65.9	-46.4	-41.25	5.2
OI.	HT/VHT20, M0 to M7	1	7	-49.9			-42.9	-41.25	1.7
2412	HT/VHT20, M0 to M7	2	7	-51.8	-51.4		-41.6	-41.25	0.3
2	HT/VHT20, M8 to M15	2	7	-51.8	-51.4		-41.6	-41.25	0.3
	HT/VHT20, M0 to M7	3	7	-54.9	-54.3	-57.1	-43.5	-41.25	2.3
	HT/VHT20, M8 to M15	3	7	-54.9	-54.3	-57.1	-43.5	-41.25	2.3
	HT/VHT20 Beam Forming, M0 to M7	2	10	-60.0	-57.1		-45.3	-41.25	4.1
	HT/VHT20 Beam Forming, M8 to M15	2	7	-51.8	-51.4		-41.6	-41.25	0.3
	HT/VHT20 Beam Forming, M0 to M7	3	12	-61.1	-60.7	-62.3	-44.5	-41.25	3.3
	HT/VHT20 Beam Forming, M8 to M15	3	9	-60.0	-57.1	-60.8	-45.2	-41.25	4.0
	HT/VHT20 STBC, M0 to M7	2	7	-51.8	-51.4		-41.6	-41.25	0.3
	HT/VHT20 STBC, M0 to M7	3	7	-54.9	-54.3	-57.1	-43.5	-41.25	2.3
	Non HT40, 6 to 54 Mbps	1	7	-49.9			-42.9	-41.25	1.7
	Non HT40, 6 to 54 Mbps	2	7	-60.9	-56.5		-48.2	-41.25	6.9
	Non HT40, 6 to 54 Mbps	3	7	-61.7	-60.8	-61.2	-49.4	-41.25	8.2
	HT/VHT40, M0 to M7	1	7	-59.7			-52.7	-41.25	11.5
	HT/VHT40, M0 to M7	2	7	-61.7	-58.0		-49.5	-41.25	8.2
	HT/VHT40, M8 to M15	2	7	-61.7	-58.0		-49.5	-41.25	8.2
2422	HT/VHT40, M0 to M7	3	7	-61.7	-58.0	-59.3	-47.6	-41.25	6.4
24	HT/VHT40, M8 to M15	3	7	-61.7	-58.0	-59.3	-47.6	-41.25	6.4
	HT/VHT40 Beam Forming, M0 to M7	2	10	-61.8	-60.7		-48.2	-41.25	7.0
	HT/VHT40 Beam Forming, M8 to M15	2	7	-61.7	-58.0		-49.5	-41.25	8.2
	HT/VHT40 Beam Forming, M0 to M7	3	12	-66.8	-64.6	-66.9	-49.2	-41.25	7.9
	HT/VHT40 Beam Forming, M8 to M15	3	9	-65.5	-62.5	-64.5	-50.2	-41.25	9.0
	HT/VHT40 STBC, M0 to M7	2	7	-61.7	-58.0		-49.5	-41.25	8.2
	HT/VHT40 STBC, M0 to M7	3	7	-61.7	-58.0	-59.3	-47.6	-41.25	6.4

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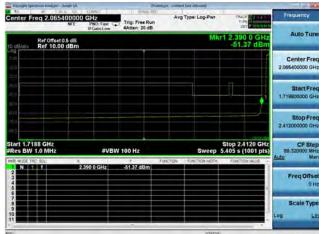


		_							
2462	CCK, 1 to 11 Mbps	1	7	-53.4			-46.4	-41.25	5.2
	CCK, 1 to 11 Mbps	2	7	-53.4	-50.3		-41.6	-41.25	0.3
	CCK, 1 to 11 Mbps	3	7	-54.7	-53.5	-51.6	-41.3	-41.25	0.1
	Non HT20, 6 to 54 Mbps	1	7	-51.0			-44.0	-41.25	2.8
	Non HT20, 6 to 54 Mbps	2	7	-56.9	-56.9		-46.9	-41.25	5.6
	Non HT20, 6 to 54 Mbps	3	7	-61.3	-60.9	-58.2	-48.1	-41.25	6.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	-62.6	-62.4		-49.5	-41.25	8.2
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-67.3	-67.1	-67.6	-50.6	-41.25	9.3
	HT/VHT20, M0 to M7	1	7	-49.5			-42.5	-41.25	1.3
	HT/VHT20, M0 to M7	2	7	-60.0	-59.8		-49.9	-41.25	8.6
	HT/VHT20, M8 to M15	2	7	-60.0	-59.8		-49.9	-41.25	8.6
	HT/VHT20, M0 to M7	3	7	-60.0	-59.8	-55.8	-46.3	-41.25	5.0
	HT/VHT20, M8 to M15	3	7	-60.0	-59.8	-55.8	-46.3	-41.25	5.0
	HT/VHT20 Beam Forming, M0 to M7	2	10	-60.0	-59.8		-46.9	-41.25	5.6
	HT/VHT20 Beam Forming, M8 to M15	2	7	-60.0	-59.8		-49.9	-41.25	8.6
	HT/VHT20 Beam Forming, M0 to M7	3	12	-66.9	-66.5	-67.1	-50.1	-41.25	8.8
	HT/VHT20 Beam Forming, M8 to M15	3	9	-62.4	-62.0	-59.9	-47.5	-41.25	6.3
	HT/VHT20 STBC, M0 to M7	2	7	-60.0	-59.8		-49.9	-41.25	8.6
	HT/VHT20 STBC, M0 to M7	3	7	-60.0	-59.8	-55.8	-46.3	-41.25	5.0



Conducted Bandedge Average, 2412 MHz, HT/VHT20, M0 to M7





Antenna A Antenna B



Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps



Antenna A Antenna B



Antenna C

Center Freq 2.864500000 GHz

Ref Offset 0.5 dB Ref 10.00 dBm



Antenna Gain: 9 dBi

CCK, 1 to 11 Mbps		Antenna Gain: 9 dbi								1
CCK, 1 to 11 Mbps CCK, 1 to 14 L25 CCR, 1 to 11 Mbps CCK, 1 to 11 Mbps CCK, 1 to 14 L25 CCR, 1 to 11 Mbps CCK, 1 to 11 Mbps CCK, 1 to 14 L25 CCR, 1 to 11 Mbps CCK, 1 to 14 L25 CCR, 1 to 11 Mbps CCK, 1 to 11 Mbps CCK, 1 to 11 Mbps CCCR, 1 to 14 L25 CCR, 1 to 11 Mbps CCCR, 1 to 14 L25 CCR, 1 to 14 L25 CCR, 1 to 11 Mbps CCCR, 1 to 14 L25 CCR, 1 to 11 Mbps CCCR, 1 to 14 L25 CCR, 1	Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
CCK, 1 to 11 Mbps 3 9 -55.8 -56.0 -58.1 -42.7 -41.25 1.5 Non HT20, 6 to 54 Mbps 1 9 -55.7 - 43.7 -41.25 2.5 Non HT20, 6 to 54 Mbps 3 9 -55.1 -56.0 -43.5 -41.25 2.3 Non HT20, 6 to 54 Mbps 3 9 -61.2 -62.4 -62.8 -48.3 -41.25 7.1 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -55.1 -56.0 -43.5 -41.25 2.3 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -61.5 -63.2 -65.9 -46.4 -41.25 5.2 HT/HT20, M0 to M7 1 9 -51.8 - 42.8 -41.25 1.6 HT/HT20, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/HT20, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/HT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/HT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/HT20 Beam Forming, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 HT/HT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/HT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/HT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/HT20 STBC, M0 to M7 3 19 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/HT20 STBC, M0 to M7 3 19 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 Non HT40, 6 to 54 Mbps 1 9 -59.5 -50.5 -41.25 9.0 Non HT40, 6 to 54 Mbps 3 1 9 -61.7 -58.0 -47.5 -41.25 9.0 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 9.0 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 9.0 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 9.0 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40, M0 to M7 1 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40, Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/HT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2		CCK, 1 to 11 Mbps	1	9	-55.2			-46.2	-41.25	5.0
Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps 2 9 -55.1 -56.0 -43.5 -41.25 2.3 Non HT20, 6 to 54 Mbps 3 9 -61.2 -62.4 -62.8 -48.3 -41.25 7.1 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -61.5 -63.2 -65.9 -46.4 -41.25 5.2 HT/VHT20, M0 to M7 1 9 -51.8 -42.6 -41.25 1.3 HT/VHT20, M0 to M7 1 9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 3.3 HT/VHT20 STBC, M0 to M7 3 9 -54.9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, Beam Forming, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 3 9 -66.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 9 -66.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 9 -66.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 9 -66.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -66.6 -66.9 -49.2 -41.25 7.9		CCK, 1 to 11 Mbps	2	9	-55.2	-55.1		-43.1	-41.25	1.9
Non HT20, 6 to 54 Mbps		CCK, 1 to 11 Mbps	3	9	-55.8	-56.0	-58.1	-42.7	-41.25	1.5
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20, M0 to M7 Non HT40, M0 to M7 No		Non HT20, 6 to 54 Mbps	1	9	-52.7			-43.7	-41.25	2.5
Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 1 9 -51.8 -42.8 -42.8 -41.25 1.6 HT/VHT20, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 9 -59.5 -50.0 -57.1 -60.8 -45.2 -41.25 4.0 Non HT40, 6 to 54 Mbps 1 9 -59.5 -50.5 -41.25 9.3 Non HT40, 6 to 54 Mbps 3 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.7 -60.8 -49.2 -41.25 6.2 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		Non HT20, 6 to 54 Mbps	2	9	-55.1	-56.0		-43.5	-41.25	2.3
Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -61.5 -63.2 -65.9 -46.4 -41.25 5.2 HT/VHT20, M0 to M7 1 9 -51.8 -42.8 -41.25 1.6 HT/VHT20, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 1.3 HT/VHT20 STBC, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 Non HT40, 6 to 54 Mbps 1 9 -59.5 -50.5 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2		Non HT20, 6 to 54 Mbps	3	9	-61.2	-62.4	-62.8	-48.3	-41.25	7.1
HT/VHT20, M0 to M7 1 9 -51.8 -42.8 -41.25 1.6 HT/VHT20, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 3.3 HT/VHT20 Beam Forming, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 3.3 HT/VHT20 STBC, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT40, 6 to 54 Mbps 1 9 -59.5 -50.5 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.7 -60.8 -49.2 -41.25 7.4 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/V		Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-55.1	-56.0		-43.5	-41.25	2.3
HT/VHT20, M0 to M7		Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-61.5	-63.2	-65.9	-46.4	-41.25	5.2
HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 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, M10 to M7 HT/VHT20, M10 to M7 HT/VHT20, M10 to M7 HT/VHT20, M10 to M7 HT/VHT40, M0 to M7 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 Beam Forming, M9 to M7 HT/HT40	01	HT/VHT20, M0 to M7	1	9	-51.8			-42.8	-41.25	1.6
HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 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, M10 to M7 HT/VHT20, M10 to M7 HT/VHT20, M10 to M7 HT/VHT20, M10 to M7 HT/VHT40, M0 to M7 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 Beam Forming, M9 to M7 HT/HT40	412	HT/VHT20, M0 to M7	2	9	-54.9	-54.3		-42.6	-41.25	1.3
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, M0 to M7 HT/VHT20, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/WHT40 Beam Formi	2	HT/VHT20, M8 to M15	2	9	-54.9	-54.3		-42.6	-41.25	1.3
HT/VHT20 Beam Forming, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M8 to M15 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 Beam Forming, M0 to M7 3 12 -61.1 -60.7 -62.3 -44.5 -41.25 3.3 HT/VHT20 Beam Forming, M8 to M15 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 HT/VHT20 STBC, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 2 9 -54.9 -54.3 -42.6 -41.25 1.3 HT/VHT20 STBC, M0 to M7 3 9 -60.0 -57.1 -60.8 -45.2 -41.25 4.0 Non HT40, 6 to 54 Mbps 1 9 -59.5 -50.5 -41.25 9.3 Non HT40, 6 to 54 Mbps 2 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.8 -61.9 -63.9 -48.7 -41.25 7.4 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2		HT/VHT20, M0 to M7	3	9	-60.0	-57.1	-60.8	-45.2	-41.25	4.0
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20, M8 to M15	3	9	-60.0	-57.1	-60.8	-45.2	-41.25	4.0
HT/VHT20 Beam Forming, M8 to M15		HT/VHT20 Beam Forming, M0 to M7	2	9	-54.9	-54.3		-42.6	-41.25	1.3
HT/VHT20 Beam Forming, M8 to M15			2	9	-54.9	-54.3		-42.6	-41.25	1.3
HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 Box 1		HT/VHT20 Beam Forming, M0 to M7	3	12	-61.1	-60.7	-62.3	-44.5	-41.25	3.3
Non HT40, 6 to 54 Mbps		HT/VHT20 Beam Forming, M8 to M15	3	9	-60.0	-57.1	-60.8	-45.2	-41.25	4.0
Non HT40, 6 to 54 Mbps 1 9 -59.5		HT/VHT20 STBC, M0 to M7	2	9	-54.9	-54.3		-42.6	-41.25	1.3
Non HT40, 6 to 54 Mbps 2 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.8 -61.9 -63.9 -48.7 -41.25 7.4 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9			3	9		-57.1	-60.8	-45.2	-41.25	4.0
Non HT40, 6 to 54 Mbps 2 9 -61.7 -60.8 -49.2 -41.25 8.0 Non HT40, 6 to 54 Mbps 3 9 -61.8 -61.9 -63.9 -48.7 -41.25 7.4 HT/VHT40, M0 to M7 1 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9				•						
Non HT40, 6 to 54 Mbps 3 9 -61.8 -61.9 -63.9 -48.7 -41.25 7.4 HT/VHT40, M0 to M7 1 9 -61.7 -52.7 -41.25 11.5 HT/VHT40, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		Non HT40, 6 to 54 Mbps	1	9	-59.5			-50.5	-41.25	9.3
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		Non HT40, 6 to 54 Mbps	2	9	-61.7	-60.8		-49.2	-41.25	8.0
HT/VHT40, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		Non HT40, 6 to 54 Mbps	3	9	-61.8	-61.9	-63.9	-48.7	-41.25	7.4
HT/VHT40, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		HT/VHT40, M0 to M7	1	9	-61.7			-52.7	-41.25	11.5
HT/VHT40, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40, M8 to M15 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0 HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		HT/VHT40, M0 to M7	2	9	-61.7	-58.0		-47.5	-41.25	6.2
HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		HT/VHT40, M8 to M15	2	9	-61.7	-58.0		-47.5	-41.25	6.2
HT/VHT40 Beam Forming, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9	22	HT/VHT40, M0 to M7	3	9	-65.5	-62.5	-64.5	-50.2	-41.25	9.0
HT/VHT40 Beam Forming, M8 to M15 2 9 -61.7 -58.0 -47.5 -41.25 6.2 HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9	24.	HT/VHT40, M8 to M15	3	9	-65.5	-62.5	-64.5	-50.2	-41.25	9.0
HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		HT/VHT40 Beam Forming, M0 to M7	2	9	-61.7	-58.0		-47.5	-41.25	6.2
HT/VHT40 Beam Forming, M0 to M7 3 12 -66.8 -64.6 -66.9 -49.2 -41.25 7.9		HT/VHT40 Beam Forming, M8 to M15	2	9	-61.7	-58.0		-47.5	-41.25	6.2
			3	12	-66.8	-64.6	-66.9	-49.2	-41.25	7.9
0 0 000 000 000 000		HT/VHT40 Beam Forming, M8 to M15	3	9	-65.5	-62.5	-64.5	-50.2	-41.25	9.0
HT/VHT40 STBC, M0 to M7 2 9 -61.7 -58.0 -47.5 -41.25 6.2									_	
HT/VHT40 STBC, M0 to M7 3 9 -65.5 -62.5 -64.5 -50.2 -41.25 9.0		HT/VHT40 STBC, M0 to M7	2	9	-61.7	-58.0		-47.5	-41.25	6.2

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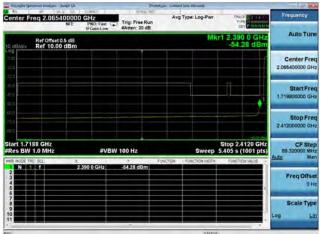


	CCK, 1 to 11 Mbps	1	9	-53.4			-44.4	-41.25	3.2
	CCK, 1 to 11 Mbps	2	9	-54.7	-53.5		-42.0	-41.25	8.0
	CCK, 1 to 11 Mbps	3	9	-56.6	-56.2	-55.3	-42.2	-41.25	1.0
	Non HT20, 6 to 54 Mbps	1	9	-53.1			-44.1	-41.25	2.9
	Non HT20, 6 to 54 Mbps	2	9	-61.3	-60.9		-49.1	-41.25	7.8
	Non HT20, 6 to 54 Mbps	3	9	-63.4	-63.3	-62.4	-49.2	-41.25	8.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-61.3	-60.9		-49.1	-41.25	7.8
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-67.3	-67.1	-67.6	-50.6	-41.25	9.3
2	HT/VHT20, M0 to M7	1	9	-51.5			-42.5	-41.25	1.3
2462	HT/VHT20, M0 to M7	2	9	-60.0	-59.8		-47.9	-41.25	6.6
2	HT/VHT20, M8 to M15	2	9	-60.0	-59.8		-47.9	-41.25	6.6
	HT/VHT20, M0 to M7	3	9	-62.4	-62.0	-59.9	-47.5	-41.25	6.3
	HT/VHT20, M8 to M15	3	9	-62.4	-62.0	-59.9	-47.5	-41.25	6.3
	HT/VHT20 Beam Forming, M0 to M7	2	9	-60.0	-59.8		-47.9	-41.25	6.6
	HT/VHT20 Beam Forming, M8 to M15	2	9	-60.0	-59.8		-47.9	-41.25	6.6
	HT/VHT20 Beam Forming, M0 to M7	3	12	-66.9	-66.5	-67.1	-50.1	-41.25	8.8
	HT/VHT20 Beam Forming, M8 to M15	3	9	-62.4	-62.0	-59.9	-47.5	-41.25	6.3
	HT/VHT20 STBC, M0 to M7	2	9	-60.0	-59.8		-47.9	-41.25	6.6
	HT/VHT20 STBC, M0 to M7	3	9	-62.4	-62.0	-59.9	-47.5	-41.25	6.3



Conducted Bandedge Average, 2412 MHz, HT/VHT20, M0 to M7



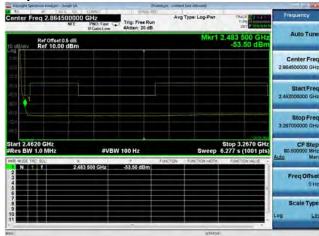


Antenna A Antenna B



Conducted Bandedge Average, 2462 MHz, CCK, 1 to 11 Mbps





Antenna A Antenna B



Antenna Gain: 7 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	CCK, 1 to 11 Mbps	1	7	-37.0			-30.0	-21.25	8.8
	CCK, 1 to 11 Mbps	2	7	-37.0	-39.6		-28.1	-21.25	6.8
	CCK, 1 to 11 Mbps	3	7	-37.0	-39.6	-39.7	-26.8	-21.25	5.6
	Non HT20, 6 to 54 Mbps	1	7	-32.1			-25.1	-21.25	3.9
	Non HT20, 6 to 54 Mbps	2	7	-33.9	-35.4		-24.6	-21.25	3.3
	Non HT20, 6 to 54 Mbps	3	7	-33.9	-35.4	-33.4	-22.4	-21.25	1.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	-36.1	-33.2		-21.4	-21.25	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-38.0	-42.9	-41.7	-23.6	-21.25	2.3
~	HT/VHT20, M0 to M7	1	7	-29.7			-22.7	-21.25	1.5
2412	HT/VHT20, M0 to M7	2	7	-34.4	-36.5		-25.3	-21.25	4.1
2	HT/VHT20, M8 to M15	2	7	-34.4	-36.5		-25.3	-21.25	4.1
	HT/VHT20, M0 to M7	3	7	-32.5	-35.3	-35.4	-22.4	-21.25	1.2
	HT/VHT20, M8 to M15	3	7	-32.5	-35.3	-35.4	-22.4	-21.25	1.2
	HT/VHT20 Beam Forming, M0 to M7	2	10	-35.0	-34.3		-21.6	-21.25	0.4
	HT/VHT20 Beam Forming, M8 to M15	2	7	-34.4	-36.5		-25.3	-21.25	4.1
	HT/VHT20 Beam Forming, M0 to M7	3	12	-37.8	-36.4	-41.2	-21.3	-21.25	0.0
	HT/VHT20 Beam Forming, M8 to M15	3	9	-35.0	-34.3	-37.8	-21.7	-21.25	0.4
	HT/VHT20 STBC, M0 to M7	2	7	-34.4	-36.5		-25.3	-21.25	4.1
	HT/VHT20 STBC, M0 to M7	3	7	-32.5	-35.3	-35.4	-22.4	-21.25	1.2
	Non HT40, 6 to 54 Mbps	1	7	-29.1			-22.1	-21.25	0.9
	Non HT40, 6 to 54 Mbps	2	7	-36.0	-29.9		-21.9	-21.25	0.7
	Non HT40, 6 to 54 Mbps	3	7	-35.0	-32.7	-34.2	-22.1	-21.25	0.8
	HT/VHT40, M0 to M7	1	7	-28.7			-21.7	-21.25	0.5
	HT/VHT40, M0 to M7	2	7	-33.6	-33.5		-23.5	-21.25	2.3
	HT/VHT40, M8 to M15	2	7	-33.6	-33.5		-23.5	-21.25	2.3
22	HT/VHT40, M0 to M7	3	7	-33.6	-33.5	-32.9	-21.6	-21.25	0.3
2422	HT/VHT40, M8 to M15	3	7	-33.6	-33.5	-32.9	-21.6	-21.25	0.3
	HT/VHT40 Beam Forming, M0 to M7	2	10	-36.2	-34.3		-22.1	-21.25	0.9
	HT/VHT40 Beam Forming, M8 to M15	2	7	-33.6	-33.5		-23.5	-21.25	2.3
	HT/VHT40 Beam Forming, M0 to M7	3	12	-36.8	-37.6	-46.6	-21.9	-21.25	0.7
	HT/VHT40 Beam Forming, M8 to M15	3	9	-36.0	-33.5	-38.0	-21.7	-21.25	0.4
	HT/VHT40 STBC, M0 to M7	2	7	-33.6	-33.5		-23.5	-21.25	2.3
	HT/VHT40 STBC, M0 to M7	3	7	-33.6	-33.5	-32.9	-21.6	-21.25	0.3

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	CCK, 1 to 11 Mbps	1	7	-37.7			-30.7	-21.25	9.5
	CCK, 1 to 11 Mbps	2	7	-37.7	-39.6		-28.5	-21.25	7.3
	CCK, 1 to 11 Mbps	3	7	-43.4	-42.6	-40.8	-30.4	-21.25	9.1
	Non HT20, 6 to 54 Mbps	1	7	-28.9			-21.9	-21.25	0.7
	Non HT20, 6 to 54 Mbps	2	7	-31.2	-32.0		-21.6	-21.25	0.3
	Non HT20, 6 to 54 Mbps	3	7	-31.8	-35.7	-33.0	-21.4	-21.25	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	10	-35.0	-36.4		-22.6	-21.25	1.4
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-40.7	-39.5	-38.6	-22.7	-21.25	1.5
2	HT/VHT20, M0 to M7	1	7	-32.7			-25.7	-21.25	4.5
2462	HT/VHT20, M0 to M7	2	7	-36.5	-33.4		-24.7	-21.25	3.4
7	HT/VHT20, M8 to M15	2	7	-36.5	-33.4		-24.7	-21.25	3.4
	HT/VHT20, M0 to M7	3	7	-36.5	-33.4	-31.4	-21.5	-21.25	0.3
	HT/VHT20, M8 to M15	3	7	-36.5	-33.4	-31.4	-21.5	-21.25	0.3
	HT/VHT20 Beam Forming, M0 to M7	2	10	-36.5	-33.4		-21.7	-21.25	0.4
	HT/VHT20 Beam Forming, M8 to M15	2	7	-36.5	-33.4		-24.7	-21.25	3.4
	HT/VHT20 Beam Forming, M0 to M7	3	12	-39.7	-38.1	-37.6	-21.6	-21.25	0.4
	HT/VHT20 Beam Forming, M8 to M15	3	9	-34.1	-37.5	-37.9	-22.4	-21.25	1.1
	HT/VHT20 STBC, M0 to M7	2	7	-36.5	-33.4		-24.7	-21.25	3.4
	HT/VHT20 STBC, M0 to M7	3	7	-36.5	-33.4	-31.4	-21.5	-21.25	0.3



Conducted Bandedge Peak, 2412 MHz, HT/VHT20 Beam Forming, M0 to M7





Antenna A

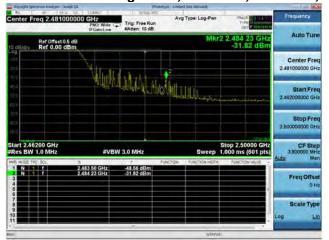
Antenna B



Antenna C



Conducted Bandedge Peak, 2462 MHz, Non HT20, 6 to 54 Mbps





Antenna A

Antenna B



Antenna C



Antenna Gain: 9 dBi

CCK, 1 to 11 Mbps 2 9 -37.0 -39.6 -26.1 -2 CCK, 1 to 11 Mbps 3 9 -39.3 -39.6 -40.9 -26.1 -2 Non HT20, 6 to 54 Mbps 1 9 -33.9 -24.9 -2 Non HT20, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -24.9 -41.7 -23.6 -2 HT/VHT20, M0 to M7 1 9 -34.4 -25.4 -2 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2 HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 6.8 -21.25 4.8 -21.25 4.9 -21.25 1.2 -21.25 1.7 -21.25 1.2 -21.25 2.3
CCK, 1 to 11 Mbps 2 9 -37.0 -39.6 -26.1 -2 CCK, 1 to 11 Mbps 3 9 -39.3 -39.6 -40.9 -26.1 -2 Non HT20, 6 to 54 Mbps 1 9 -33.9 -24.9 -2 Non HT20, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -24.9 -41.7 -23.6 -2 HT/VHT20, M0 to M7 1 9 -34.4 -25.4 -2 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2 HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 4.8 -21.25 4.9 -21.25 3.7 -21.25 1.2 -21.25 1.7 -21.25 1.2 -21.25 2.3
CCK, 1 to 11 Mbps 3 9 -39.3 -39.6 -40.9 -26.1 -2 Non HT20, 6 to 54 Mbps 1 9 -33.9 -24.9 -2 Non HT20, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -38.0 -42.9 -41.7 -23.6 -2 HT/VHT20, M0 to M7 1 9 -34.4 -25.4 -2 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2 HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 4.9 -21.25 3.7 -21.25 1.2 -21.25 1.7 -21.25 1.2 -21.25 2.3
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps Non HT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 Non HT20, M0 to M7 N	-21.25 3.7 -21.25 1.2 -21.25 1.7 -21.25 1.2 -21.25 2.3
Non HT20, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20, 6 to 54 Mbps 3 9 -38.8 -33.6 -41.7 -23.0 -2 Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -38.0 -42.9 -41.7 -23.6 -2 HT/VHT20, M0 to M7 1 9 -34.4 -25.4 -2 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2	-21.25 1.2 -21.25 1.7 -21.25 1.2 -21.25 2.3
Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps This is a second of the se	-21.25 1.7 -21.25 1.2 -21.25 2.3
Non HT20 Beam Forming, 6 to 54 Mbps 2 9 -36.1 -33.2 -22.4 -2 Non HT20 Beam Forming, 6 to 54 Mbps 3 12 -38.0 -42.9 -41.7 -23.6 -2 HT/VHT20, M0 to M7 1 9 -34.4 -25.4 -2 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2 HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 1.2 -21.25 2.3
Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 2 9 -32.5 -35.3 -21.7 -2 HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 2.3
No. or or other content or	
No. or or other content or	
HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 4.2
HT/VHT20, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 0.4
HTA//HT00 MO +- M7	-21.25 0.4
HT/VHT20, M0 to M7 3 9 -35.0 -34.3 -37.8 -21.7 -2	-21.25 0.4
HT/VHT20, M8 to M15 3 9 -35.0 -34.3 -37.8 -21.7 -2	-21.25 0.4
HT/VHT20 Beam Forming, M0 to M7 2 9 -32.5 -35.3 -21.7 -2	-21.25 0.4
HT/VHT20 Beam Forming, M8 to M15 2 9 -32.5 -35.3 -21.7 -2	-21.25 0.4
HT/VHT20 Beam Forming, M0 to M7 3 12 -37.8 -36.4 -41.2 -21.3 -2	-21.25 0.0
HT/VHT20 Beam Forming, M8 to M15 3 9 -35.0 -34.3 -37.8 -21.7 -2	-21.25 0.4
HT/VHT20 STBC, M0 to M7 2 9 -32.5 -35.3 -21.7 -2	-21.25 0.4
HT/VHT20 STBC, M0 to M7 3 9 -35.0 -34.3 -37.8 -21.7 -2	-21.25 0.4
Non HT40, 6 to 54 Mbps 1 9 -33.8 -24.8 -2	-21.25 3.6
Non HT40, 6 to 54 Mbps 2 9 -35.0 -32.7 -21.7 -2	-21.25 0.4
Non HT40, 6 to 54 Mbps 3 9 -34.0 -34.6 -40.9 -21.8 -2	-21.25 0.6
HT/VHT40, M0 to M7 1 9 -33.6 -24.6 -2	-21.25 3.4
HT/VHT40, M0 to M7 2 9 -33.6 -33.5 -21.5 -2	-21.25 0.3
HT/VHT40, M8 to M15 2 9 -33.6 -33.5 -21.5 -2	-21.25 0.3
\[\begin{align*} \text{MT/VHT40, M0 to M7} \text{3} \[\text{9} \] -36.0 -33.5 -38.0 -21.7 -2 -	-21.25 0.4
HT/VHT40, M0 to M7 3 9 -36.0 -33.5 -38.0 -21.7 -22.7 HT/VHT40, M8 to M15 3 9 -36.0 -33.5 -38.0 -21.7 -22.7	-21.25 0.4
HT/VHT40 Beam Forming, M0 to M7 2 9 -33.6 -33.5 -21.5 -2	-21.25 0.3
HT/VHT40 Beam Forming, M8 to M15 2 9 -33.6 -33.5 -21.5 -2	-21.25 0.3
HT/VHT40 Beam Forming, M0 to M7 3 12 -36.8 -37.6 -46.6 -21.9 -2	-21.25 0.7
	-21.25 0.4
3, 21, 11, 2	-21.25 0.3

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							_		
	CCK, 1 to 11 Mbps	1	9	-37.7			-28.7	-21.25	7.5
	CCK, 1 to 11 Mbps	2	9	-43.4	-42.6		-31.0	-21.25	9.7
	CCK, 1 to 11 Mbps	3	9	-46.5	-45.7	-43.9	-31.5	-21.25	10.2
	Non HT20, 6 to 54 Mbps	1	9	-30.6			-21.6	-21.25	0.4
	Non HT20, 6 to 54 Mbps	2	9	-31.8	-35.7		-21.3	-21.25	0.1
	Non HT20, 6 to 54 Mbps	3	9	-35.1	-38.2	-37.5	-23.0	-21.25	1.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	9	-31.8	-35.7		-21.3	-21.25	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	12	-40.7	-39.5	-38.6	-22.7	-21.25	1.5
2	HT/VHT20, M0 to M7	1	9	-30.6			-21.6	-21.25	0.4
2462	HT/VHT20, M0 to M7	2	9	-36.5	-33.4		-22.7	-21.25	1.4
7	HT/VHT20, M8 to M15	2	9	-36.5	-33.4		-22.7	-21.25	1.4
	HT/VHT20, M0 to M7	3	9	-34.1	-37.5	-37.9	-22.4	-21.25	1.1
	HT/VHT20, M8 to M15	3	9	-34.1	-37.5	-37.9	-22.4	-21.25	1.1
	HT/VHT20 Beam Forming, M0 to M7	2	9	-36.5	-33.4		-22.7	-21.25	1.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	-36.5	-33.4		-22.7	-21.25	1.4
	HT/VHT20 Beam Forming, M0 to M7	3	12	-39.7	-38.1	-37.6	-21.6	-21.25	0.4
	HT/VHT20 Beam Forming, M8 to M15	3	9	-34.1	-37.5	-37.9	-22.4	-21.25	1.1
	HT/VHT20 STBC, M0 to M7	2	9	-36.5	-33.4		-22.7	-21.25	1.4
	HT/VHT20 STBC, M0 to M7	3	9	-34.1	-37.5	-37.9	-22.4	-21.25	1.1



Conducted Bandedge Peak, 2412 MHz, HT/VHT20 Beam Forming, M0 to M7





Antenna A

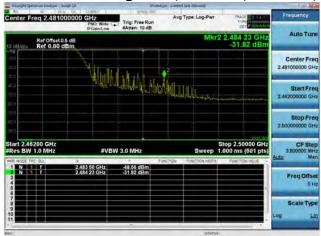
Antenna B



Antenna C



Conducted Bandedge Peak, 2462 MHz, Non HT20, 6 to 54 Mbps





Antenna A Antenna B



Conducted Bandedge (Non-Restricted Band)

Frequency (MHz)	Mode	Data Rate (Mbps)	Conducted Bandedge Delta (dB)	Limit (dBc)	Margin (dB)
	CCK, 1 to 11 Mbps	11	54.5	>30	24.5
2412	Non HT20, 6 to 54 Mbps	6	40.6	>30	10.6
	HT/VHT20, M0 to M15	m0	39.4	>30	9.4
2422	Non HT40, 6 to 54 Mbps	6	42.5	>30	12.5
2422	HT/VHT40, M0 to M15	m0	43.5	>30	13.5

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Conducted Bandedge Delta, 2412 MHz, CCK, 1 to 11 Mbps



Conducted Bandedge Delta, 2412 MHz, Non HT20, 6 to 54 Mbps



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Conducted Bandedge Delta, 2412 MHz, HT/VHT20, M0 to M15



Conducted Bandedge Delta, 2422 MHz, Non HT40, 6 to 54 Mbps



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Conducted Bandedge Delta, 2422 MHz, HT/VHT40, M0 to M15







Title: Physical Test Arrangement Photograph

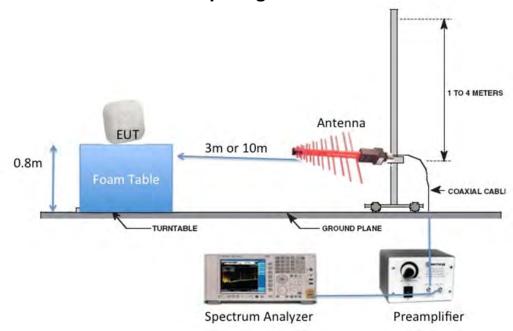
This is a dual band 2.4GHz / 5GHz device. All ports in this test set up photo are connected as all testing is automated. Section 2.6 of this test report given an overview of the different Tx antenna combinations used by this device.



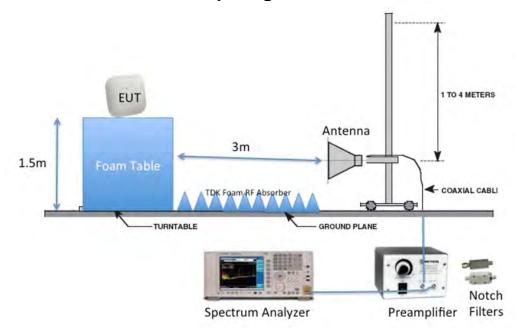
Appendix B: Emission Test Results

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

15.205 / RSS-Gen / LP0002:3.10.1(5)/2.8 Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) and RSS-Gen 8.10, must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)) and RSS-Gen 8.9.

Ref. ANSI C63.10: 2013 section 4.1.4.2.2, 4.1.4.2.3, 6.6.4 & 11.12.2

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: 1GHz – 26 GHz
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, Limit= 54dBuV/m @3m

2) Peak plot, 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
0	EUT	S03	\searrow	
2	Support	S04		\checkmark

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
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

			Spurious Emission		
Frequency		Data Rate	Level	Limit	Margin
(MHz)	Mode	(Mbps)	(dBuV/m)	(dBuV/m)	(MHz)
2412	Non HT20, 6 to 54 Mbps	1	50.4	54.0	3.6
2412	Non HT20, 6 to 54 Mbps	6	50.1	54.0	3.9
2412	HT/VHT20, M0 to M23	m0	49.9	54.0	4.1
2422	Non HT40, 6 to 54 Mbps	6	50.4	54.0	3.6
2422	HT/VHT40, M0 to M23	m0	50.4	54.0	3.6
2437	Non HT20, 6 to 54 Mbps	1	50.4	54.0	3.6
2437	Non HT20, 6 to 54 Mbps	6	50.2	54.0	3.8
2437	HT/VHT20, M0 to M23	m0	50.0	54.0	4.0
2442	Non HT40, 6 to 54 Mbps	6	50.4	54.0	3.6
2442	HT/VHT40, M0 to M23	m0	50.3	54.0	3.7
2452	Non HT40, 6 to 54 Mbps	6	50.1	54.0	3.9
2452	HT/VHT40, M0 to M23	m0	50.3	54.0	3.7
2462	Non HT20, 6 to 54 Mbps	1	50.5	54.0	3.5
2462	Non HT20, 6 to 54 Mbps	6	50.1	54.0	3.9
2462	HT/VHT20, M0 to M23	m0	50.6	54.0	3.4

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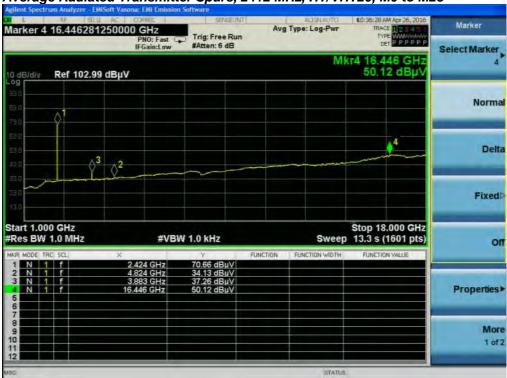
Average Radiated Transmitter Spurs, 2412 MHz, Non HT20, 6 to 54 Mbps



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Average Radiated Transmitter Spurs, 2422 MHz, Non HT40, 6 to 54 Mbps



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Average Radiated Transmitter Spurs, 2437 MHz, CCK, 1 to 11 Mbps



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Average Radiated Transmitter Spurs, 2437 MHz, HT/VHT20, M0 to M23



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Average Radiated Transmitter Spurs, 2442 MHz, HT/VHT40, M0 to M23



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Average Radiated Transmitter Spurs, 2452 MHz, HT/VHT40, M0 to M23



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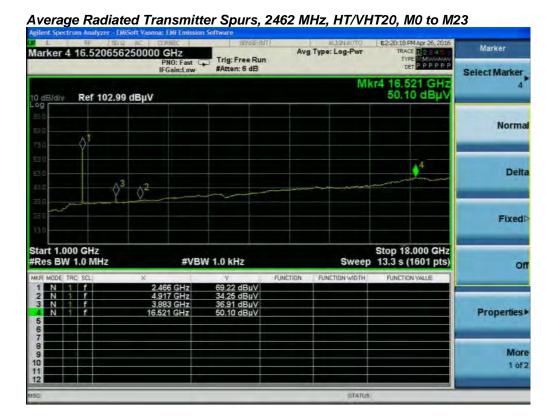


Average Radiated Transmitter Spurs, 2462 MHz, Non HT20, 6 to 54 Mbps

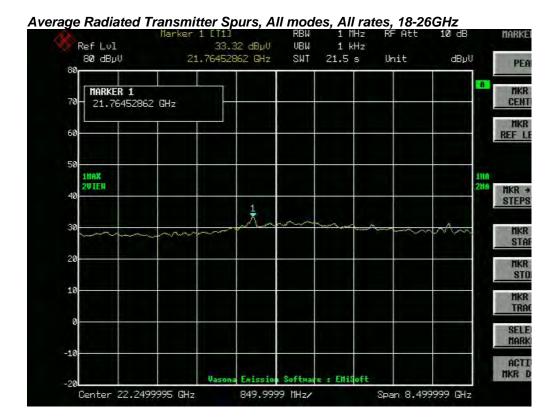


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B.1.P Transmitter Radiated Spurious Emissions-Peak Worst Case

			Spurious Emission		
Frequency	<u>.</u> .	Data Rate	Level	Limit	Margin
(MHz)	Mode	(Mbps)	(dBuV/m)	(dBuV/m)	(MHz)
2412	Non HT20, 6 to 54 Mbps	1	62.2	74.0	11.8
2412	Non HT20, 6 to 54 Mbps	6	63.3	74.0	10.7
2412	HT/VHT20, M0 to M23	m0	63.3	74.0	10.7
2422	Non HT40, 6 to 54 Mbps	6	62.5	74.0	11.5
2422	HT/VHT40, M0 to M23	m0	62.3	74.0	11.7
2437	Non HT20, 6 to 54 Mbps	1	63.1	74.0	10.9
2437	Non HT20, 6 to 54 Mbps	6	61.6	74.0	12.4
2437	HT/VHT20, M0 to M23	m0	62.6	74.0	11.4
2442	Non HT40, 6 to 54 Mbps	6	63.3	74.0	10.7
2442	HT/VHT40, M0 to M23	m0	62.3	74.0	11.7
2452	Non HT40, 6 to 54 Mbps	6	62.8	74.0	11.2
2452	HT/VHT40, M0 to M23	m0	63.2	74.0	10.8
2462	Non HT20, 6 to 54 Mbps	1	63.0	74.0	11.0
2462	Non HT20, 6 to 54 Mbps	6	62.1	74.0	11.9
2462	HT/VHT20, M0 to M23	m0	62.3	74.0	11.7

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Peak Radiated Transmitter Spurs, 2412 MHz, Non HT20, 6 to 54 Mbps



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Peak Radiated Transmitter Spurs, 2422 MHz, Non HT40, 6 to 54 Mbps



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Peak Radiated Transmitter Spurs, 2437 MHz, CCK, 1 to 11 Mbps



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Peak Radiated Transmitter Spurs, 2437 MHz, HT/VHT20, M0 to M23



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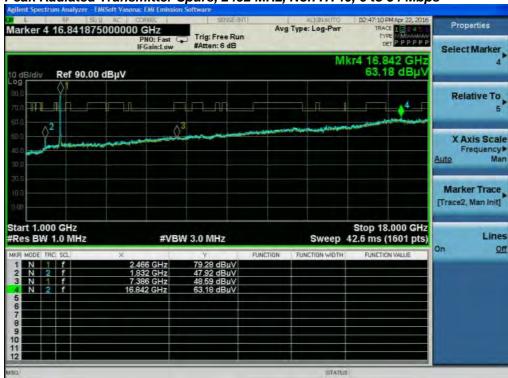
Peak Radiated Transmitter Spurs, 2442 MHz, HT/VHT40, M0 to M23



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Peak Radiated Transmitter Spurs, 2452 MHz, HT/VHT40, M0 to M23



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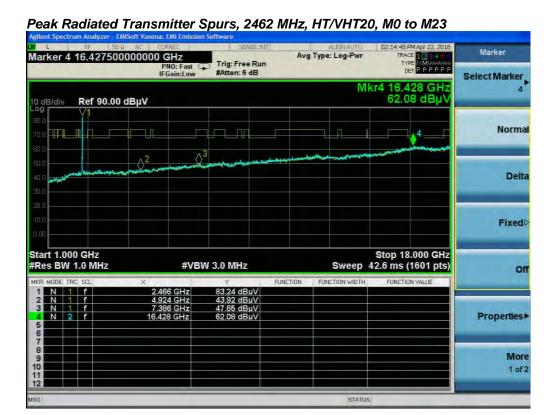


Peak Radiated Transmitter Spurs, 2462 MHz, Non HT20, 6 to 54 Mbps

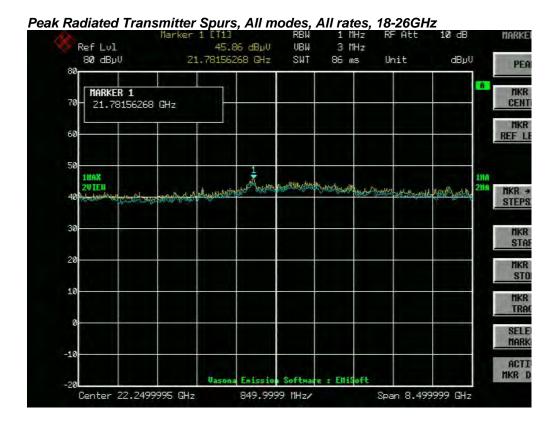


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B.2 Receiver Spurious Emissions

RSS-Gen Receivers are required to comply with the limits of spurious emissions as set out in this section. Receiver emission measurements are to be performed as per the normative test method referenced in Section 3.

Radiated emissions which fall in the restricted bands, as defined in RSS-Gen section 8.10, must also comply with the radiated emission limits specified in RSS-Gen section 8.9.

For emissions at frequencies below 1 GHz, measurements shall be performed using a CISPR quasi-peak detector and the related measurement bandwidth. At frequencies above 1 GHz, measurements shall be performed using a linear average detector with a minimum resolution bandwidth of 1 MHz.

Ref. RSS-Gen section 8.9 & 8.10

ANSI C63.10: 2013 section 4.1.4.2.2, 4.1.4.2.3, 6.6.4 & 11.12.2

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: 1GHz – 18 GHz
Reference Level: 80 dBuV
Attenuation: 10 dB
Sweep Time: Coupled
Resolution Bandwidth: 1MHz

Video Bandwidth: 3MHz for Peak, 1 kHz for average

Detector: Peak

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals.

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

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

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

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
0	EUT	S03	\checkmark	
2	Support	S04		✓

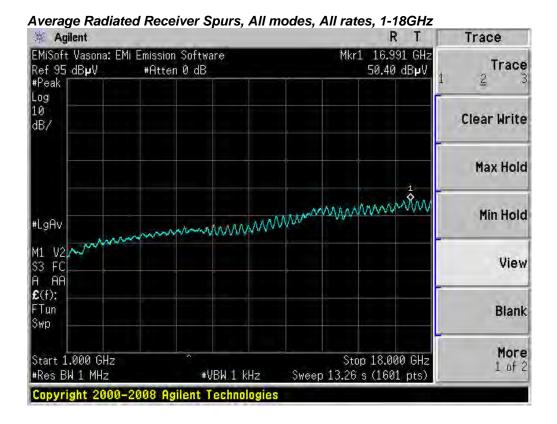
Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment

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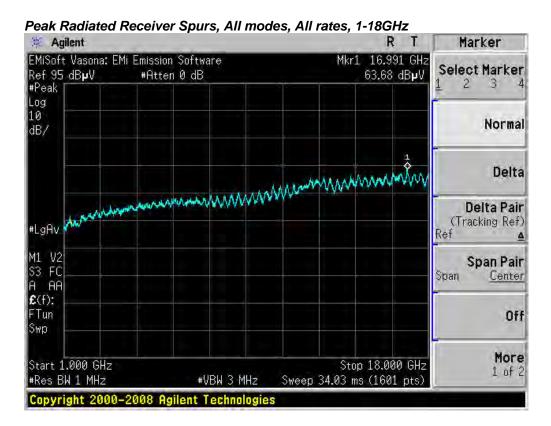


B.2.A Receiver Radiated Spurious Emissions (Average Measurements)





B.2.A Receiver Radiated Spurious Emissions (Peak Measurements)





B.3 Radiated Emissions 30MHz to 1GHz

15.205 / 15.209 / RSS-Gen / LP0002:3.10.1(5)/2.8 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)) and RSS-Gen section 8.9.

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.

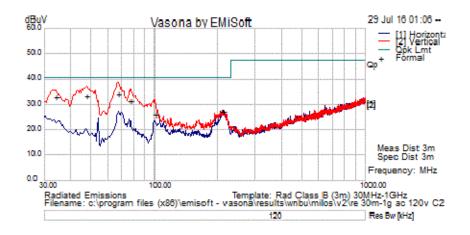
System Number	Description	Samples	System under test	Support equipment
0	EUT	S03	S	
2	Support	S04		✓

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See Appendix C for list of test equipment

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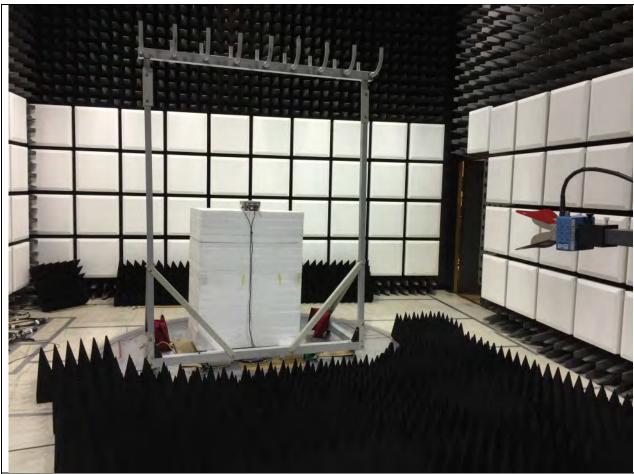




Test Results Table

Frequency (MHz)	Raw (dBuV)	Cable Loss		Level (dBuV/m)	Measurement Type	Pol		Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass/ Fail	Comments
34.24375	14.29	0.69	17.95	32.93	Quasi Max	Τ	105	12	40.50	-7.57	Pass	
47.58125	24.03	0.80	8.83	33.66	Quasi Max	Τ	113	36	40.50	-6.84	Pass	
212.48125	14.97	1.77	10.50	27.24	Quasi Max	٧	117	182	40.50	-13.26	Pass	
100.325	14.43	1.20	10.39	26.02	Quasi Max	Н	233	244	40.50	-14.48	Pass	
66.98125	25.03	1.00	8.26	34.29	Quasi Max	Н	113	292	40.50	-6.21	Pass	
76.68125	22.45	1.06	8.19	31.70	Quasi Max	Н	128	344	40.50	-8.80	Pass	





Title: Radiated Emissions Configuration Photograph



B.4 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

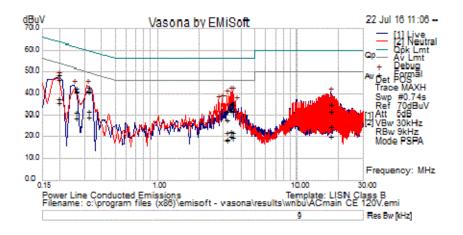
Detector: Quasi-Peak / Average

System Number	Description	Samples	System under test	Support equipment
0	EUT	S03	S	
2	Support	S04		\checkmark

Tested By :	Date of testing:
Jose Aguirre	25-April-16 - 08-Aug-16
Test Result : PASS	

See separate EMC test report for test data.





Test Results Table

Frequency (MHz)	Raw (dBuV)		Factors (dB)	Level (dBuV/m)	Measurement Type	Line	Limit (dBuV/m)	Margin (dB)	Pass/ Fail	Comments
.318	22.63	20.28	0.04	42.96	Quasi Peak	Live	59.76	-16.80	Pass	
3.446	14.92	19.99	0.05	34.95	Quasi Peak	Live	56.00	-21.05	Pass	
3.135	11.83	19.98	0.06	31.86	Quasi Peak	Live	56.00	-24.14	Pass	
.195	27.83	20.78	0.05	48.66	Quasi Peak	Live	63.82	-15.16	Pass	
17.358	14.25	20.33	0.19	34.77	Quasi Peak	Live	60.00	-25.23	Pass	
3.350	15.24	19.98	0.05	35.27	Quasi Peak	Live	56.00	-20.73	Pass	
.261	21.84	20.48	0.04	42.36	Quasi Peak	Live	61.40	-19.04	Pass	
3.446	11.71	19.99	0.05	31.75	Quasi Peak	Neutral	56.00	-24.25	Pass	
.195	25.78	20.78	0.05	46.61	Quasi Peak	Neutral	63.82	-17.21	Pass	
3.350	11.97	19.98	0.05	32.01	Quasi Peak	Neutral	56.00	-23.99	Pass	
3.135	8.12	19.98	0.06	28.16	Quasi Peak	Neutral	56.00	-27.84	Pass	
.261	20.21	20.48	0.04	40.73	Quasi Peak	Neutral	61.40	-20.67	Pass	
17.358	4.23	20.33	0.19	24.75	Quasi Peak	Neutral	60.00	-35.25	Pass	
.318	20.63	20.28	0.04	40.95	Quasi Peak	Neutral	59.76	-18.81	Pass	
.318	11.54	20.28	0.04	31.87	Average	Live	49.76	-17.89	Pass	
3.446	1.77	19.99	0.05	21.81	Average	Live	46.00	-24.19	Pass	
3.135	1.82	19.98	0.06	21.86	Average	Live	46.00	-24.14	Pass	
.195	17.05	20.78	0.05	37.87	Average	Live	53.82	-15.95	Pass	
17.358	11.08	20.33	0.19	31.59	Average	Live	50.00	-18.41	Pass	
3.350	2.45	19.98	0.05	22.49	Average	Live	46.00	-23.51	Pass	
.261	10.69	20.48	0.04	31.21	Average	Live	51.40	-20.19	Pass	
3.446	-0.15	19.99	0.05	19.89	Average	Neutral	46.00	-26.11	Pass	
.195	14.85	20.78	0.05	35.68	Average	Neutral	53.82	-18.14	Pass	
3.350	0.12	19.98	0.05	20.16	Average	Neutral	46.00	-25.84	Pass	
3.135	-1.39	19.98	0.06	18.64	Average	Neutral	46.00	-27.36	Pass	
.261	8.30	20.48	0.04	28.82	Average	Neutral	51.40	-22.58	Pass	

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Frequency (MHz)	Raw (dBuV)		Factors (dB)	Level (dBuV/m)	Measurement Type	_	Limit (dBuV/m)	Margin (dB)	Pass/ Fail	Comments
17.358	-0.50	20.33	0.19	20.02	Average	Neutral	50.00	-29.98	Pass	
.318	9.08	20.28	0.04	29.41	Average	Neutral	49.76	-20.35	Pass	

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Title: Conducted Emissions Configuration Photograph



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

	Tes	st Equipment used for Radiated Emission	าร		
Equip#	Manufacturer/ Model	Description	Last Cal	Next Cal	Test Item
CIS051796	TTA1800-30-HG	SMA 18 GHz Pre-Amplifier	29-Sep-15	29-Sep-16	B.1, B.2
	Miteq				
CIS035285	3117	Double Ridged Waveguide Horn	30-Sep-15	30-Sep-16	B.1, B.2
	ETS-Lindgren	Antenna			
CIS008447	NSA 10m Chamber	NSA 10m Chamber	14-Oct-15	14-Oct-16	B.3
	Cisco				
CIS045096	TH0118	Mast Mount Preamplifier Array,	4-Nov-15	4-Nov-16	B.1, B.2
	Cisco	1-18GHz			
CIS030652	JB1	Combination Antenna,	4-Dec-15	4-Dec-16	B.3
	Sunol Sciences	30MHz-2GHz			
CIS041929	iBTHP-5-DB9	5 inch Temp/RH/Press Sensor w/20ft	22-Dec-15	22-Dec-16	B.1, B.2, B.3
	Newport	cable			
CIS043124	Above 1GHz Site Cal	Above 1GHz Cispr Site Verification	14-Jan-16	14-Jan-17	B.1, B.2
	Cisco				
CIS047300	N9038A	MXE EMI Receiver	28-Jan-16	28-Jan-17	B.1, B.2, B.3
	Agilent Technologies	20Hz to 26.5 Ghz			
CIS051642	Sucoflex 106PA	RF N Type Cable 8.5m	11-Feb-16	11-Feb-17	B.1, B.2, B.3
	Huber+Suhner				
CIS030559	UFB311A-1-0950-504504	RF Coaxial Cable, to 18GHz, 95 in	15-Feb-16	15-Feb-17	B.1, B.2, B.3
	Micro-Coax				
CIS020975	UFB311A-0-1344-520520	RF Coaxial Cable, to 18GHz, 134.4 in	17-Feb-16	17-Feb-17	B.1, B.2, B.3
	Micro-Coax				
CIS051708	UFB293C-2-0840-300504	RF Coaxial SMA-N Type Cable	28-Jun-16	28-Jun-17	B.1, B.2, B.3
	Micro-Coax				
CIS044940	ESU40	EMI Test Receiver,	2-Nov-15	2-Nov-16	B.1, B.2
	Rohde & Schwarz	20Hz-40GHz			
CIS034075	RSG 2000	Reference Spectrum Generator,	Cal Not Req	uired	
	Schaffner	1-18GHz			
CIS041979	1840	18-40GHz EMI Test Head/	02-Sep-16	02-Sep-17	B.1, B.2
	Cisco	Verification Fixture			
CIS044940	ESU40	EMI Test Receiver,	2-Nov-15	2-Nov-16	B.1, B.2,
	Rohde & Schwarz	20Hz-40GHz			
CIS030652	JB1	Combination Antenna,	4-Dec-15	4-Dec-16	B.3
	Sunol Sciences	30MHz-2GHz			
CIS003003	83731B	Synthesized Signal Generator	29-Jan-16	29-Jan-17	B.1, B.2
	HP	-			
CIS037236	50CB-015	GPIB Control Box			B.1, B.2
	JFW				

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	Test Equipment used for AC Mains Conducted Emissions								
Equip#	Manufacturer/ Model	Description	Last Cal	Next Cal	Test Item				
8510	Fischer Custom Communications FCC-450B-2.4-N	Instrumentation Limiter	5/16/16	5/16/17	B.4				
23802	Fischer Custom Communications FCC-801-M2-50A	CDN, 2-LINE 50A	1/12/16	1/12/17	B.4				
45995	Fischer Custom Communications F-090527-1009-2	Lisn Adapter	6/17/16	6/17/17	B.4				
49468	Coleman RG223	BNC 25 ft Cable	3/9/16	3/9/17	B.4				
31918	Midwest Microwave TRM-2048-MC-BNC-10	50 Ohm, 5W Terminator, Type BNC	11/9/15	11/9/16	B.4				
49531	TTE H785-150K-50-21378	High Pass Filter	5/3/16	5/3/17	B.4				
45994	Fischer Custom Communications F-090527-1009-1	Line Impedance Stabilization Network	6/17/16	6/17/17	B.4				
18963	York CNE V	Comparison Noise Emitter, 30 - 1000MHz	Cal Not Required	Cal Not Required	B.4				
45050	Rohde & Schwarz ESCI	EMI Test Receiver	11/3/15	11/3/16	B.4				
51721	Teseq CDN ST08A	Coupling Decoupling Network	6/7/16	6/7/17	B.4				
54231	Newport iBTHP-5-DB9	5 inch Temp/RH/Press Sensor w/20ft cable	2/10/16	2/10/17	B.4				

	Tes	t Equipment used for RF Conducted	Tests		
Equip#	Manufacturer/ Model	Description	Last Cal	Next Cal	Test Item
CIS054666	RA08-S1S1-18	SMA 18" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054667	RA08-S1S1-18	SMA 18" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054668	RA08-S1S1-18	SMA 18" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054669	RA08-S1S1-18	SMA 18" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054686	NI PXI-2796	Plug-in switch module	6-Oct-15	6-Oct-16	A1 thru A7
	National Instruments				
CIS055166	RFLT4WDC40GK	4 Way Power Divider 40GHz	23-Nov-15	23-Nov-16	A1 thru A7
	RF Lambda				
CIS054662	RFLT4WDC40GK	SMA 36" cable	24-Sep-15	24-Sep-16	A1 thru A7
	RF Lambda				
CIS054656	BRC50705-02	Band Reject Filter	24-Sep-15	24-Sep-16	A1 thru A7
	Micro-Tronics				
CIS054655	BRC50704-02	Notch Filter,	24-Sep-15	24-Sep-16	A1 thru A7
	Micro-Tronics	SB:5.470-5.725GHz, to 12GHz			

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CIS054654	BRC50703-02	Notch Filter,	24-Sep-15	24-Sep-16	A1 thru A7
	Micro-Tronics	SB:5.150-5.350GHz, to 11GHz			
CIS054653	BRM50702-02	Notch Filter,	24-Sep-15	24-Sep-16	A1 thru A7
	Micro-Tronics	SB:2.400-2.500GHz, to 18GHz			
CIS054678	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054677	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054676	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054675	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054674	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054673	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054672	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054671	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054670	RA08-S1S1-12	SMA 12" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054664	GC12-8181-16	SMA 16" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054663	F120-S1S1-48	SMA 48" Cable	25-Sep-15	25-Sep-16	A1 thru A7
	MegaPhase				
CIS054686	NI PXI-2796	Plug-in switch module	6-Oct-15	6-Oct-16	A1 thru A7
	National Instruments				
CIS042005	BWS30W2+	SMA 30dB Attenuator	16-Oct-15	16-Oct-16	A1 thru A7
	Mini-Circuits				
CIS041995	BW-S6W2	6dB Attenuator	16-Oct-15	16-Oct-16	A1 thru A7
	Mini-Circuits				
CIS054695	D3C2060	Circulator	20-Oct-15	20-Oct-16	A1 thru A7
	Ditom				
CIS055146	RA08-S1S1-12	12" SMA Cable	17-Nov-15	17-Nov-16	A1 thru A7
	Megaphase				
CIS050721	N9030A	PXA Signal Analyzer	30-Mar-16	30-Mar-17	A1 thru A7
	Keysight				
CIS054303	N5182B	MXG X-Series RF Vector Signal	6-Apr-16	6-Apr-17	A1 thru A7
	Keysight	Generator			
CIS055358 CIS055099	ZFSC-2-10G	Splitter	11-Apr-16	11-Apr-17	A1 thru A7
	Mini-Circuits		·	•	
	SMART2200RM2U Tripp-Lite	Power Supply	Cal Not Required		A1 thru A7
CIS055094	PXI-1042	Chassis	Cal Not Required		A1 thru A7
	National Instruments	Chaolo	<u> </u>		

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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	Α	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

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