# Test Report

# AIR-AP4800-B-K9

Cisco Aironet 802.11ac Dual Band Access Points

FCC ID: LDKBRB4K1779

# 5470-5725 MHz

Against the following Specifications:

CFR47 Part 15.407



**Cisco Systems** 170 West Tasman Drive San Jose, CA 95134

Jose L'Aguin	Aure
Author: Jose Aguirre	Approved By: Gerard Thorpe
Tested By: Jose Aguirre	Title: Mgr, Engineering
	Revision: 2

This report replaces any previously entered test report under EDCS – **12774390**. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.

Page No: 1 of 86

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SECTION 1: OVERVIEW	3
SECTION2: ASSESSMENT INFORMATION	4
2.1 General	
2.2 DATE OF TESTING	6
2.3 Report Issue Date	6
2.4 TESTING FACILITIES	
2.5 Equipment Assessed (EUT)	
2.6 EUT DESCRIPTION	7
SECTION 3: RESULT SUMMARY	
3.1 Results Summary Table	
SECTION 4: SAMPLE DETAILS	
4.1 Sample Details	
4.2 System Details	9
4.3 MODE OF OPERATION DETAILS	9
APPENDIX A: EMISSION TEST RESULTS	
CONDUCTED TEST SETUP DIAGRAM	
TARGET MAXIMUM CHANNEL POWER	
A.1 99% and 26dB Bandwidth	
A.2 MAXIMUM CONDUCTED OUTPUT POWER/ POWER SPECTRAL DENSITY	
A.3 CONDUCTED SPURIOUS EMISSIONS	
A.4 CONDUCTED BANDEDGE	
A.5 DUTY CYCLE	
APPENDIX B: EMISSION TEST RESULTS	
RADIATED EMISSION SETUP DIAGRAM-BELOW 1G	
B.1 RADIATED SPURIOUS EMISSIONS	
B.2 RADIATED EMISSIONS 30MHz TO 1GHz	
B.3 AC CONDUCTED EMISSIONS	
APPENDIX C: LIST OF TEST EQUIPMENT USED TO PERFORM THE TEST	
APPENDIX E: ABBREVIATION KEY AND DEFINITIONS	

Page No: 2 of 86

### Section 1: Overview

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

**Specifications:** 

CFR47 Part 15.407

Measurements were made in accordance with

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

Page No: 3 of 86

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### Section2: 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:

- 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*%

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

Page No: 4 of 86

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%)

30 N	MHz – 40GHz	+/- 0.38 dB

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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Page No: 5 of 86



2.2 Date of testing

1-Nov-17 - 19-Mar-18

### 2.3 Report Issue Date

22-Mar-18

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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-AP4800-B-K9

Page No: 6 of 86

#### 2.6 EUT Description

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

802.11n/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, Four 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 - Non HT20 Beam Forming, Four 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, Three Antennas, M16 to M23 802.11n/ac - HT/VHT20. Four Antennas. M0 to M7 802.11n/ac - HT/VHT20. Four Antennas. M8 to M15 802.11n/ac - HT/VHT20, Four Antennas, M16 to M23 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 Beam Forming, Three Antennas, M16 to M23 802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M0 to M7 802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M8 to M15 802.11n/ac - HT/VHT20 Beam Forming, Four Antennas, M16 to M23 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 - HT/VHT20 STBC, Four 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 - Non HT40 Duplicate, Four 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, Three Antennas, M16 to M23 802.11n/ac - HT/VHT40, Four Antennas, M0 to M7 802.11n/ac - HT/VHT40, Four Antennas, M8 to M15 802.11n/ac - HT/VHT40, Four Antennas, M16 to M23 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 Beam Forming, Three Antennas, M16 to M23 802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M0 to M7 802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M8 to M15 802.11n/ac - HT/VHT40 Beam Forming, Four Antennas, M16 to M23

Page No: 7 of 86

802.11n/ac - HT/VHT40 STBC, Two Antennas, M0 to M7 802.11n/ac - HT/VHT40 STBC, Three Antennas, M0 to M7 802.11n/ac - HT/VHT40 STBC, Four Antennas, M0 to M7 802.11n/ac - Non HT80 Duplicate, One Antenna, 6 to 54 Mbps 802.11n/ac - Non HT80 Duplicate, Two Antennas, 6 to 54 Mbps 802.11n/ac - Non HT80 Duplicate, Three Antennas, 6 to 54 Mbps 802.11n/ac - Non HT80 Duplicate, Four Antennas, 6 to 54 Mbps 802.11ac - VHT80, One Antenna, M0.1 to M9.1 802.11ac - VHT80, Two Antennas, M0.1 to M9.1 802.11ac - VHT80, Two Antennas, M0.2 to M9.2 802.11ac - VHT80, Three Antennas, M0.1 to M9.1 802.11ac - VHT80, Three Antennas, M0.2 to M9.2 802.11ac - VHT80, Three Antennas, M0.3 to M9.3 802.11ac - VHT80, Four Antennas, M0.1 to M9.1 802.11ac - VHT80, Four Antennas, M0.2 to M9.2 802.11ac - VHT80, Four Antennas, M0.3 to M9.3 802.11ac - VHT80 Beam Forming, Two Antennas, M0.1 to M9.1 802.11ac - VHT80 Beam Forming, Two Antennas, M0.2 to M9.2 802.11ac - VHT80 Beam Forming, Three Antennas, M0.1 to M9.1 802.11ac - VHT80 Beam Forming, Three Antennas, M0.2 to M9.2 802.11ac - VHT80 Beam Forming, Three Antennas, M0.3 to M9.3 802.11ac - VHT80 Beam Forming, Four Antennas, M0.1 to M9.1 802.11ac - VHT80 Beam Forming, Four Antennas, M0.2 to M9.2 802.11ac - VHT80 Beam Forming, Four Antennas, M0.3 to M9.3 802.11ac - VHT80 STBC, Two Antennas, M0.1 to M9.1 802.11ac - VHT80 STBC, Three Antennas, M0.1 to M9.1 802.11ac - VHT80 STBC, Four Antennas, M0.1 to M9.1 802.11n/ac - Non HT160. One Antenna. 6 to 54 Mbps 802.11n/ac - Non HT160, Two Antennas, 6 to 54 Mbps 802.11n/ac - Non HT160, Three Antennas, 6 to 54 Mbps 802.11n/ac - Non HT160, Four Antennas, 6 to 54 Mbps 802.11ac - VHT160, One Antenna, M0.1 to M9.1 802.11ac - VHT160, Two Antennas, M0.1 to M9.1 802.11ac - VHT160, Two Antennas, M0.2 to M9.2 802.11ac - VHT160, Three Antennas, M0.1 to M9.1 802.11ac - VHT160, Three Antennas, M0.2 to M9.2 802.11ac - VHT160, Three Antennas, M0.3 to M9.3 802.11ac - VHT160, Four Antennas, M0.1 to M9.1 802.11ac - VHT160, Four Antennas, M0.2 to M9.2 802.11ac - VHT160, Four Antennas, M0.3 to M9.3 802.11ac - VHT160 Beam Forming, Two Antennas, M0.1 to M9.1 802.11ac - VHT160 Beam Forming, Two Antennas, M0.2 to M9.2 802.11ac - VHT160 Beam Forming, Three Antennas, M0.1 to M9.1 802.11ac - VHT160 Beam Forming, Three Antennas, M0.2 to M9.2 802.11ac - VHT160 Beam Forming, Three Antennas, M0.3 to M9.3 802.11ac - VHT160 Beam Forming, Four Antennas, M0.1 to M9.1 802.11ac - VHT160 Beam Forming, Four Antennas, M0.2 to M9.2 802.11ac - VHT160 Beam Forming, Four Antennas, M0.3 to M9.3 802.11ac - VHT160 STBC, Two Antennas, M0.1 to M9.1

802.11ac - VHT160 STBC, Three Antennas, M0.1 to M9.1 802.11ac - VHT160 STBC, Four Antennas, M0.1 to M9.1

Page No: 8 of 86



The following antennas are supported by this product series. The data included in this report represent the worst case data for all antennas.

Radio	Frequency	HOST PID   Part Number - Please align Host(s) with antenna(s)	ANTENNA PID   Part Number	Antenna Type	Antenna Gain (includes antenna cable loss)
2.4 GHz BLE	2.4 GHz	TX/RX: Internal	BLE Single port, single band omni		2.5 dBi
WIFI: 5 GHz XOR	5 GHz	Micro-Cell: Intnernal	NA	Quad port, single band directional	5 dBi
WIFI: 2.4GHz XOR & 5 GHz Only	2.4 & 5 GHz	Macro-Cell: Internal	NA	Qual port, dual band Omni	2.5 dBi/3.5 dBi
WIFI: RX Only 2.4GHz XOR & 5 GHz XOR	2.4 & 5 GHz	Location Antenna Array	NA	Qual port   Circular Array + Omni Elements	RX Only

Page No: 9 of 86

### Section 3: Result Summary

### 3.1 Results Summary Table

#### **Conducted emissions**

Basic Standard	Technical Requirements / Details	Result
FCC 15.407	<ul> <li>99% &amp; 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.</li> <li>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.</li> </ul>	Pass
FCC 15.407	Output Power: 15.407 (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	Pass
FCC 15.407	<b>Power Spectral Density:</b> <b>15.407</b> The maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	Pass
FCC 15.407	<b>Conducted Spurious Emissions / Band-Edge:</b> <b>15.407</b> (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.	Pass
FCC 15.407 FCC 15.209 FCC 15.205	Restricted band: Unwanted emissions falling within the restricted bands, as defined in FCC 15.205 (a) must also comply with the radiated emission limits specified in FCC 15.209 (a).	Pass

### Radiated Emissions (General requirements)

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

\* MPE calculation is recorded in a separate report

Page No: 10 of 86

### 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-AP4800-B-K9	Cisco Systems	P2	9.1.8.1	build-Inx-064	FOC21291N04
S02*	AIR-PWR50 341-100460-001	Delta	A0	NA	NA	DAB2016S1GQ

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

### 4.2 System Details

System #	Description	Samples
1	AIR-AP4800-B-K9	S01
2	AIR-PWR50 341-100460-001	S02

### 4.3 Mode of Operation Details

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

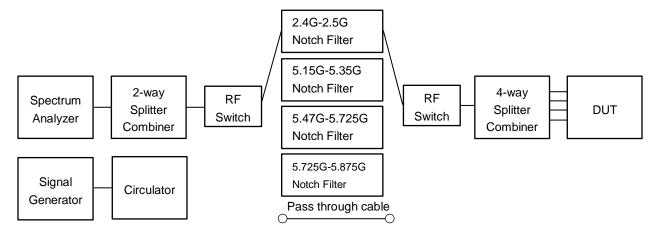
All measurements were made in accordance with

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

Page No: 11 of 86

## **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

		Maximum Channel Power (dBm) Frequency (MHz)			
	Fr	Frequency (MHz)			
Operating Mode			,		
Non HT160, 6 to 54 Mbps	11				
VHT160, M0 to M9, M0 to M9 1-2ss	17				
VHT160 Beam Forming, M0 to M9, M0 to M9 1-2ss	16				
VHT160 STBC, M0 to M9 1ss	17				
	5500	5560	5720		
Non HT20, 6 to 54 Mbps	17	17	19		
Non HT20 Beam Forming, 6 to 54 Mbps	15	17	19		
HT/VHT20, M0 to M23	18	19	21		
HT/VHT20 Beam Forming, M0 to M23	18	19	21		
HT/VHT20 STBC, M0 to M7	18	19	20		
	5510	5550	5710		
Non HT40, 6 to 54 Mbps	13	17	18		
HT/VHT40, M0 to M23	15	19	19		
HT/VHT40 Beam Forming, M0 to M23	15	18	19		
HT/VHT40 STBC, M0 to M7	15	19	19		
	5530	5610	5690		
Non HT80, 6 to 54 Mbps	13	15	15		
VHT80, M0 to M9, M0 to M9 1-2ss	16	20	19		
VHT80 Beam Forming, M0 to M9, M0 to M9 1-2ss	16	19	19		
VHT80 STBC, M0 to M9 1ss	16	20	19		

Page No: 12 of 86

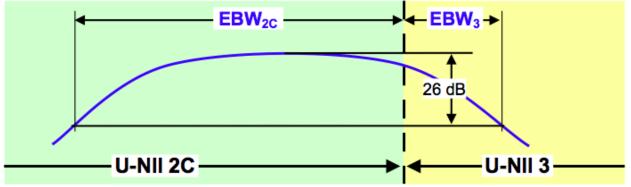
# A.1 99% and 26dB Bandwidth

**FCC 15.407** The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW.

The 26 dB emission is the width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

### KDB 644545 D03 v01 section D1b

**Band-crossing emissions:** For an emission that crosses the boundary between two adjacent U-NII bands, the boundary frequency between the bands serves as one edge for defining the portion of the EBW that falls within a particular U-NII band. However, the -26 dB points are measured relative to the highest point on the contiguous segment—regardless of which band contains that highest point (Figure4).



### Figure 4. Emission Bandwidth (EBW) within a Band for Band-Crossing Signals

### **Test Procedure**

Ref. ANSI C63.10: 2013 Section 6.9.3 KDB 644545 D03 v01

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

### KDB 662911

99% BW and EBW (-26dB) Test Procedure

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

Ref. ANSI C63.10: 2013 Section 6.9.3

99% BW and EBW (-26dB)
Test parameters
X dB BW = -26dB (using the OBW function of the spectrum analyzer)
OBW = 99% (using the OBW function of the spectrum analyzer)
Span = 1.5 x to 5.0 times OBW
RBW = approx. 1% to 5% of the OBW
VBW ≥ 3 x RBW
Detector = Peak or where practical sample shall be used
Trace = Max. Hold

Page No: 13 of 86

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

Tested By :	Date of testing:
Jose Aguirre	1-Nov-17 - 19-Mar-18

## Test Result : PASS

See Appendix C for list of test equipment

Page No: 14 of 86

Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5500	Non HT20, 6 to 54 Mbps	6	21.2	17.864
5500	HT/VHT20, M0 to M23	m0	22.3	18.508
5510	Non HT40, 6 to 54 Mbps	6	43.7	37.085
5510	HT/VHT40, M0 to M23	m0	42.9	36.722
5530	Non HT80, 6 to 54 Mbps	6	83.1	76.427
5550	VHT80, M0 to M9, M0 to M9 1-2ss	m0x1	83.1	76.321
5550	Non HT40, 6 to 54 Mbps	6	46.0	37.124
5550	HT/VHT40, M0 to M23	m0	42.3	36.653
5560	Non HT20, 6 to 54 Mbps	6	22.4	17.853
5500	HT/VHT20, M0 to M23	m0	22.3	18.479
5570	Non HT160, 6 to 54 Mbps	6	164.7	155.422
5570	VHT160, M0 to M9, M0 to M9 1-2ss	m0x1	165.2	155.315
5610	Non HT80, 6 to 54 Mbps	6	83.7	76.286
5010	VHT80, M0 to M9, M0 to M9 1-2ss	m0x1	83.6	76.442
5690	Non HT80, 6 to 54 Mbps	6	82.0	76.407
5690	VHT80, M0 to M9, M0 to M9 1-2ss	m0x1	82.5	76.509
5710	Non HT40, 6 to 54 Mbps	6	43.7	37.101
5710	HT/VHT40, M0 to M23	m0	42.0	36.691
5720	Non HT20, 6 to 54 Mbps	6	21.6	17.872
5720	HT/VHT20, M0 to M23	m0	21.7	18.527

Page No: 15 of 86

RL

I0 dB/div

Center 5.5 GHz #Res BW 1 MHz

**Occupied Bandwidth** 

**Transmit Freq Error** 

x dB Bandwidth

MSG

17.927 MHz

-72.917 kHz

25.04 MHz



21.6 dBm

99.00 %

-26.00 dB

STATUS

Freq Offset 0 Hz

**Total Power** 

x dB

% of OBW Power

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### 26dB / 99% Bandwidth, 5500 MHz, Non HT20, 6 to 54 Mbps

Page No: 16 of 86

# A.2 Maximum Conducted Output Power/ Power Spectral Density

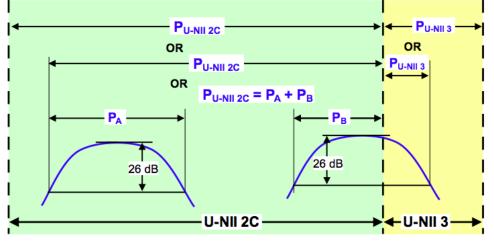
**15.407** (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall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

**15.407** a (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### KDB 644545 D03 (section F.2.b.ii)

When measuring the portion of the maximum conducted output power within a single U-NII band, the power shall be integrated across only the portion of the EBW that falls within that band. That is, if an EBW extends across the boundary between two adjacent bands, the boundary frequency between the bands serves as one edge of the frequency range to be integrated. Integration across an entire U-NII band without regard to 26 dB points is also acceptable for determining conducted output power within that band.



**Conducted output power within a U-NII band:** Integrate over the band, or integrate over a span including the 26 dB EBWs of transmission segments within the band, or integrate over 26 dB EBW of each transmission segment in the band and sum.

Figure 5. Conducted Output Power Measurement Examples

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. (ANSI C63.10: 2013, section 14.3.2.2)

### **Test Procedure**

Page No: 17 of 86

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10: 2013 KDB 644545 D03 v01

### Output Power

# Test Procedure

1. Set the radio in the continuous transmitting mode at full power

 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.
 Capture graphs and record pertinent measurement data.

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01 ANSI C63.10: 2013 section 12.3.2.2 Method SA-1

Output Power
Test parameters
Span = >1.5 times the OBW
RBW = 1MHz
VBW ≥ 3 x RBW
Sweep = Auto couple
Detector = sample
Trace = Trace Average 100

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

Power Spectral Density (UNII 2C band) Test parameters ANSI C63.10: 2013 , sec12.3.2.2 Method SA-1 Span = >1.5 times the OBW RBW = 1MHz VBW ≥ 3 x RBW Sweep = Auto couple Detector = Sample Trace = Trace Average 100 Marker = Peak Search

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. (ANSI C63.10 2013 section 14.3.2.3)

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

Tested By :	Date of testing:
Jose Aguirre	1-Nov-17 - 19-Mar-18

Test Result : PASS

See Appendix C for list of test equipment

Page No: 18 of 86

### Maximum Output Power

Frequency (MHz)	Mode	Tx Paths	ပိဖိ	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Tx 3 Max Power (dBm)	Tx 4 Max Power (dBm)	Total Tx Channel Power (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	16.5				16.5	24.0	7.5
	Non HT20, 6 to 54 Mbps	2	5	15.0	13.1			17.2	24.0	6.8
	Non HT20, 6 to 54 Mbps	3	5	12.6	11.8	12.0		16.9	24.0	7.1
	Non HT20, 6 to 54 Mbps	4	5	10.7	9.9	9.9	9.9	16.1	24.0	7.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	12.6	11.8			15.2	22.0	6.8
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	8.8	8.1	7.9		13.1	20.0	6.9
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	6.6	5.9	5.8	5.9	12.1	19.0	6.9
	HT/VHT20, M0 to M7	1	5	15.4				15.4	24.0	8.6
	HT/VHT20, M0 to M7	2	5	15.1	13.3			17.3	24.0	6.7
	HT/VHT20, M8 to M15	2	5	15.1	13.3			17.3	24.0	6.7
	HT/VHT20, M0 to M7	3	5	12.7	11.9	12.1		17.0	24.0	7.0
	HT/VHT20, M8 to M15	3	5	13.9	13.0	13.0		18.1	24.0	5.9
0	HT/VHT20, M16 to M23	3	5	13.9	13.0	13.0		18.1	24.0	5.9
5500	HT/VHT20, M0 to M7	4	5	10.9	10.1	10.2	10.1	16.4	24.0	7.6
4,	HT/VHT20, M8 to M15	4	5	12.7	11.9	12.1	11.9	18.2	24.0	5.8
	HT/VHT20, M16 to M23	4	5	12.7	11.9	12.1	11.9	18.2	24.0	5.8
	HT/VHT20 Beam Forming, M0 to M7	2	8	11.7	11.0			14.4	22.0	7.6
	HT/VHT20 Beam Forming, M8 to M15	2	5	15.1	13.3			17.3	24.0	6.7
	HT/VHT20 Beam Forming, M0 to M7	3	10	9.0	8.2	8.1		13.2	20.0	6.8
	HT/VHT20 Beam Forming, M8 to M15	3	7	11.7	11.0	11.0		16.0	23.0	7.0
	HT/VHT20 Beam Forming, M16 to M23	3	5	13.9	13.0	13.0		18.1	24.0	5.9
	HT/VHT20 Beam Forming, M0 to M7	4	11	6.9	6.2	6.1	6.2	12.4	19.0	6.6
	HT/VHT20 Beam Forming, M8 to M15	4	8	9.0	8.2	8.1	8.3	14.4	22.0	7.6
	HT/VHT20 Beam Forming, M16 to M23	4	6	11.7	11.0	11.0	11.0	17.2	24.0	6.8
	HT/VHT20 STBC, M0 to M7	2	5	15.1	13.3			17.3	24.0	6.7
	HT/VHT20 STBC, M0 to M7	3	5	13.9	13.0	13.0		18.1	24.0	5.9
	HT/VHT20 STBC, M0 to M7	4	5	12.7	11.9	12.1	11.9	18.2	24.0	5.8
	Non HT40, 6 to 54 Mbps	1	5	11.1				11.1	23.9	12.8
	Non HT40, 6 to 54 Mbps	2	5	9.2	8.5			11.9	23.9	12.0
	Non HT40, 6 to 54 Mbps	3	5	9.2	8.5	8.3		13.5	23.9	10.4
5510	Non HT40, 6 to 54 Mbps	4	5	7.0	6.5	6.5	6.7	12.7	23.9	11.2
55	HT/VHT40, M0 to M7	1	5	13.6				13.6	23.9	10.3
	HT/VHT40, M0 to M7	2	5	11.7	11.0			14.4	23.9	9.5
	HT/VHT40, M8 to M15	2	5	11.7	11.0			14.4	23.9	9.5
	HT/VHT40, M0 to M7	3	5	10.7	10.1	10.1		15.1	23.9	8.8

Page No: 19 of 86

	HT/VHT40, M8 to M15	3	5	10.7	10.1	10.1		15.1	23.9	8.8
	HT/VHT40, M16 to M23	3	5	10.7	10.1	10.1		15.1	23.9	8.8
	HT/VHT40, M0 to M7	4	5	9.7	9.2	9.2	9.4	15.4	23.9	8.5
	HT/VHT40, M8 to M15	4	5	9.7	9.2	9.2	9.4	15.4	23.9	8.5
	HT/VHT40, M16 to M23	4	5	9.7	9.2	9.2	9.4	15.4	23.9	8.5
	HT/VHT40 Beam Forming, M0 to M7	2	8	9.7	9.2			12.5	21.9	9.4
	HT/VHT40 Beam Forming, M8 to M15	2	5	11.7	11.0			14.4	23.9	9.5
	HT/VHT40 Beam Forming, M0 to M7	3	10	6.6	6.0	6.1		11.0	19.9	8.9
	HT/VHT40 Beam Forming, M8 to M15	3	7	8.9	8.2	8.1		13.2	22.9	9.7
	HT/VHT40 Beam Forming, M16 to M23	3	5	10.7	10.1	10.1		15.1	23.9	8.8
	HT/VHT40 Beam Forming, M0 to M7	4	11	3.6	3.1	3.1	3.3	9.3	18.9	9.6
	HT/VHT40 Beam Forming, M8 to M15	4	8	6.6	6.0	6.1	6.3	12.3	21.9	9.6
	HT/VHT40 Beam Forming, M16 to M23	4	6	8.9	8.2	8.1	8.4	14.4	23.9	9.5
	HT/VHT40 STBC, M0 to M7	2	5	11.7	11.0			14.4	23.9	9.5
	HT/VHT40 STBC, M0 to M7	3	5	10.7	10.1	10.1		15.1	23.9	8.8
	HT/VHT40 STBC, M0 to M7	4	5	9.7	9.2	9.2	9.4	15.4	23.9	8.5
	Non HT80, 6 to 54 Mbps	1	5	10.5				10.5	23.8	13.3
	Non HT80, 6 to 54 Mbps	2	5	8.9	7.3			11.2	23.8	12.6
	Non HT80, 6 to 54 Mbps	3	5	7.9	6.4	6.5		11.8	23.8	12.0
	Non HT80, 6 to 54 Mbps	4	5	7.9	6.4	6.5	6.6	12.9	23.8	10.9
	VHT80, M0 to M9 1ss	1	5	13.3				13.3	23.8	10.5
	VHT80, M0 to M9 1ss	2	5	12.1	11.9			15.0	23.8	8.8
	VHT80, M0 to M9 2ss	2	5	12.1	11.9			15.0	23.8	8.8
	VHT80, M0 to M9 1ss	3	5	11.2	10.9	11.1		15.8	23.8	8.0
	VHT80, M0 to M9 2ss	3	5	11.2	10.9	11.1		15.8	23.8	8.0
	VHT80, M0 to M9 3ss	3	5	11.2	10.9	11.1		15.8	23.8	8.0
	VHT80, M0 to M9 1ss	4	5	10.3	10.0	10.2	10.2	16.2	23.8	7.6
8	VHT80, M0 to M9 2ss	4	5	10.3	10.0	10.2	10.2	16.2	23.8	7.6
5530	VHT80, M0 to M9 3ss	4	5	10.3	10.0	10.2	10.2	16.2	23.8	7.6
	VHT80 Beam Forming, M0 to M9 1ss	2	8	10.3	10.0			13.2	21.8	8.6
	VHT80 Beam Forming, M0 to M9 2ss	2	5	12.1	11.9			15.0	23.8	8.8
	VHT80 Beam Forming, M0 to M9 1ss	3	10	7.5	7.2	7.5		12.2	19.8	7.6
	VHT80 Beam Forming, M0 to M9 2ss	3	7	10.3	10.0	10.2		14.9	22.8	7.9
	VHT80 Beam Forming, M0 to M9 3ss	3	5	11.2	10.9	11.1		15.8	23.8	8.0
	VHT80 Beam Forming, M0 to M9 1ss	4	11	6.5	6.2	6.5	6.4	12.4	18.8	6.4
	VHT80 Beam Forming, M0 to M9 2ss	4	8	8.4	8.2	8.4	8.3	14.3	21.8	7.5
	VHT80 Beam Forming, M0 to M9 3ss	4	6	9.3	9.1	9.3	9.3	15.3	23.8	8.5
	VHT80 STBC, M0 to M9 1ss	2	5	12.1	11.9			15.0	23.8	8.8
	VHT80 STBC, M0 to M9 1ss	3	5	11.2	10.9	11.1		15.8	23.8	8.0
	VHT80 STBC, M0 to M9 1ss	4	5	10.3	10.0	10.2	10.2	16.2	23.8	7.6

Page No: 20 of 86

	Non HT40, 6 to 54 Mbps	1	5	16.9				16.9	23.9	7.0
	Non HT40, 6 to 54 Mbps	2	5	12.6	11.3			15.0	23.9	8.9
	Non HT40, 6 to 54 Mbps	3	5	11.7	10.3	11.5		16.0	23.9	7.9
	Non HT40, 6 to 54 Mbps	4	5	11.7	10.3	11.5	11.5	17.3	23.9	6.6
	HT/VHT40, M0 to M7	1	5	16.5				16.5	23.9	7.4
	HT/VHT40, M0 to M7	2	5	15.0	14.0			17.5	23.9	6.4
	HT/VHT40, M8 to M15	2	5	15.0	14.0			17.5	23.9	6.4
	HT/VHT40, M0 to M7	3	5	13.7	12.7	13.9		18.2	23.9	5.7
	HT/VHT40, M8 to M15	3	5	13.7	12.7	13.9		18.2	23.9	5.7
	HT/VHT40, M16 to M23	3	5	13.7	12.7	13.9		18.2	23.9	5.7
	HT/VHT40, M0 to M7	4	5	12.7	12.7	12.9	12.8	18.8	23.9	5.1
5550	HT/VHT40, M8 to M15	4	5	12.7	12.7	12.9	12.8	18.8	23.9	5.1
55	HT/VHT40, M16 to M23	4	5	12.7	12.7	12.9	12.8	18.8	23.9	5.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	13.7	12.7			16.2	21.9	5.7
	HT/VHT40 Beam Forming, M8 to M15	2	5	15.0	14.0			17.5	23.9	6.4
	HT/VHT40 Beam Forming, M0 to M7	3	10	7.0	6.6	6.6		11.5	19.9	8.4
	HT/VHT40 Beam Forming, M8 to M15	3	7	11.8	11.7	11.9		16.6	22.9	6.3
	HT/VHT40 Beam Forming, M16 to M23	3	5	13.7	12.7	13.9		18.2	23.9	5.7
	HT/VHT40 Beam Forming, M0 to M7	4	11	7.0	6.6	6.6	6.9	12.8	18.9	6.1
	HT/VHT40 Beam Forming, M8 to M15	4	8	9.0	8.8	8.8	9.0	14.9	21.9	7.0
	HT/VHT40 Beam Forming, M16 to M23	4	6	11.8	11.7	11.9	11.8	17.8	23.9	6.1
	HT/VHT40 STBC, M0 to M7	2	5	15.0	14.0			17.5	23.9	6.4
	HT/VHT40 STBC, M0 to M7	3	5	13.7	12.7	13.9		18.2	23.9	5.7
	HT/VHT40 STBC, M0 to M7	4	5	12.7	12.7	12.9	12.8	18.8	23.9	5.1
	Non HT20, 6 to 54 Mbps	1	5	16.4				16.4	24.0	7.6
	Non HT20, 6 to 54 Mbps	2	5	15.0	13.6			17.4	24.0	6.6
	Non HT20, 6 to 54 Mbps	3	5	12.6	12.4	12.6		17.3	24.0	6.7
	Non HT20, 6 to 54 Mbps	4	5	9.7	9.4	9.6	9.4	15.5	24.0	8.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	13.8	13.5			16.7	22.0	5.3
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	8.0	7.3	7.5		12.4	20.0	7.6
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	6.7	6.4	6.4	6.3	12.5	19.0	6.5
	HT/VHT20, M0 to M7	1	5	16.5				16.5	24.0	7.5
60	HT/VHT20, M0 to M7	2	5	15.1	13.9			17.6	24.0	6.4
55	HT/VHT20, M8 to M15	2	5	15.1	13.9			17.6	24.0	6.4
	HT/VHT20, M0 to M7	3	5	12.8	12.6	12.8		17.5	24.0	6.5
	HT/VHT20, M8 to M15	3	5	14.0	13.7	14.0		18.7	24.0	5.3
	HT/VHT20, M16 to M23	3	5	14.0	13.7	14.0		18.7	24.0	5.3
	HT/VHT20, M0 to M7	4	5	10.9	10.6	10.8	10.5	16.7	24.0	7.3
5560	HT/VHT20, M8 to M15	4	5	12.8	12.6	12.8	12.4	18.7	24.0	5.3
	HT/VHT20, M16 to M23	4	5	12.8	12.6	12.8	12.4	18.7	24.0	5.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	14.0	13.7			16.9	22.0	5.1
	HT/VHT20 Beam Forming, M8 to M15	2	5	15.1	13.9			17.6	24.0	6.4

Page No: 21 of 86

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	HT/VHT20 Beam Forming, M0 to M7	3	10	8.1	7.5	7.6		12.5	20.0	7.5
	HT/VHT20 Beam Forming, M8 to M15	3	7	11.9	11.6	11.8		16.5	23.0	6.5
	HT/VHT20 Beam Forming, M16 to M23	3	5	14.0	13.7	14.0		18.7	24.0	5.3
	HT/VHT20 Beam Forming, M0 to M7	4	11	6.8	6.4	6.6	6.5	12.6	19.0	6.4
	HT/VHT20 Beam Forming, M8 to M15	4	8	9.0	8.7	8.8	8.6	14.8	22.0	7.2
	HT/VHT20 Beam Forming, M16 to M23	4	6	11.9	11.6	11.8	11.4	17.7	24.0	6.3
	HT/VHT20 STBC, M0 to M7	2	5	15.1	13.9			17.6	24.0	6.4
	HT/VHT20 STBC, M0 to M7	3	5	14.0	13.7	14.0		18.7	24.0	5.3
	HT/VHT20 STBC, M0 to M7	4	5	12.8	12.6	12.8	12.4	18.7	24.0	5.3
	Non HT160, 6 to 54 Mbps	1	5	9.9				9.9	23.8	13.9
	Non HT160, 6 to 54 Mbps	2	5	7.9	7.6			10.8	23.8	13.0
	Non HT160, 6 to 54 Mbps	3	5	5.3	3.8	3.8		9.1	23.8	14.7
	Non HT160, 6 to 54 Mbps	4	5	4.3	4.0	4.0	4.3	10.2	23.8	13.6
	VHT160, M0 to M9 1ss	1	5	12.4				12.4	23.8	11.4
	VHT160, M0 to M9 1ss	2	5	12.4	12.1			15.3	23.8	8.5
	VHT160, M0 to M9 2ss	2	5	12.4	12.1			15.3	23.8	8.5
	VHT160, M0 to M9 1ss	3	5	11.5	11.2	11.2		16.1	23.8	7.7
	VHT160, M0 to M9 2ss	3	5	11.5	11.2	11.2		16.1	23.8	7.7
	VHT160, M0 to M9 3ss	3	5	11.5	11.2	11.2		16.1	23.8	7.7
	VHT160, M0 to M9 1ss	4	5	11.5	11.2	11.2	11.3	17.3	23.8	6.5
20	VHT160, M0 to M9 2ss	4	5	11.5	11.2	11.2	11.3	17.3	23.8	6.5
5570	VHT160, M0 to M9 3ss	4	5	11.5	11.2	11.2	11.3	17.3	23.8	6.5
	VHT160 Beam Forming, M0 to M9 1ss	2	8	11.5	11.2			14.4	21.8	7.4
	VHT160 Beam Forming, M0 to M9 2ss	2	5	12.4	12.1			15.3	23.8	8.5
	VHT160 Beam Forming, M0 to M9 1ss	3	10	8.6	8.4	8.4		13.2	19.8	6.6
	VHT160 Beam Forming, M0 to M9 2ss	3	7	10.5	10.3	10.2		15.1	22.8	7.7
	VHT160 Beam Forming, M0 to M9 3ss	3	5	11.5	11.2	11.2		16.1	23.8	7.7
	VHT160 Beam Forming, M0 to M9 1ss	4	11	6.8	6.4	6.4	6.7	12.6	18.8	6.2
	VHT160 Beam Forming, M0 to M9 2ss	4	8	8.6	8.4	8.4	8.7	14.5	21.8	7.3
	VHT160 Beam Forming, M0 to M9 3ss	4	6	10.5	10.3	10.2	10.5	16.4	23.8	7.4
	VHT160 STBC, M0 to M9 1ss	2	5	12.4	12.1			15.3	23.8	8.5
	VHT160 STBC, M0 to M9 1ss	3	5	11.5	11.2	11.2		16.1	23.8	7.7
	VHT160 STBC, M0 to M9 1ss	4	5	11.5	11.2	11.2	11.3	17.3	23.8	6.5
	Non HT80, 6 to 54 Mbps	1	5	13.7				13.7	23.8	10.1
	Non HT80, 6 to 54 Mbps	2	5	12.4	12.0			15.2	23.8	8.6
	Non HT80, 6 to 54 Mbps	3	5	9.6	8.1	8.5		13.6	23.8	10.2
10	Non HT80, 6 to 54 Mbps	4	5	8.6	7.2	7.7	7.3	13.8	23.8	10.0
5610	VHT80, M0 to M9 1ss	1	5	17.1				17.1	23.8	6.7
	VHT80, M0 to M9 1ss	2	5	15.5	13.8			17.7	23.8	6.1
	VHT80, M0 to M9 2ss	2	5	15.5	13.8			17.7	23.8	6.1
	VHT80, M0 to M9 1ss	3	5	14.1	13.7	14.1		18.7	23.8	5.1

Page No: 22 of 86

VHT80, M0 to M9 2ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80, M0 to M9 2ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, M0 to M9 2ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, Mo to M9 2ss         2         8         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         3         5         14.1         13.7         14.1         18.7         23.8         6.0           VHT80 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.0         15.1         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         4         6         11.9         11.6         12.0											
VHT80, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, M0 to M9 2ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, M0 to M9 2ss         2         8         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         9.0         15.1         21.8         6.7           VHT80 Beam Forming, M0 to M9 2ss         4         6         11.9         11.6         12.0         11.7         7.2.8         6.1           VHT80 StBC, M0 to M9 1ss         2         5         15.5		VHT80, M0 to M9 2ss	3	5	14.1	13.7	14.1		18.7	23.8	5.1
VHT80, M0 to M9 2ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80, M0 to M9 3ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         14.1         13.7         14.1         13.8         19.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         11.6         6.22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         4         8         9.8         9.0         3.90         15.1         21.8         6.7           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         17.8         23.8         5.1           VHT80 StrBC, M0 to M9 1ss         5         15.3		VHT80, M0 to M9 3ss	3	5	14.1	13.7	14.1		18.7	23.8	5.1
VHT80, M0 to M9 3ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         14.1         13.7         16.9         21.8         4.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         18.8         5.8           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         7.8         2.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         2.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         15.3         2.8         5.1           VH		VHT80, M0 to M9 1ss	4	5	14.1	13.7	14.1	13.8	19.9	23.8	3.9
VH780 Beam Forming, M0 to M9 1ss         2         8         14.1         13.7         16.9         21.8         4.9           VH780 Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VH780 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VH780 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VH780 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         0.0         15.1         21.8         6.7           VH780 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         0.0         15.1         21.8         6.1           VH780 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         5.1           VH780 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.7         14.1         18.7         23.8         5.3           VH780 STBC, M0 to M9 1ss         1         5         15.3         15.2         <		VHT80, M0 to M9 2ss	4	5	14.1	13.7	14.1	13.8	19.9	23.8	3.9
VHT80 Beam Forming, M0 to M9 2ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 1ss         3         10         8.3         8.0         8.3         13.0         19.8         6.8           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         6.1           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         17.8         23.8         6.0           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         7.8.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         2         5         14.1         13.7         14.1         18.7         23.8         8.4           Non HT80, 6 to 54 Mbps         1         5         15.3         23.8         8.9		VHT80, M0 to M9 3ss	4	5	14.1	13.7	14.1	13.8	19.9	23.8	3.9
VHT80 Beam Forming, M0 to M9 1ss         3         10         8.3         8.0         8.3         13.0         19.8         6.8           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 Beam Forming, M0 to M9 1ss         4         11         7.2         6.9         13.0         18.8         5.8           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         17.8         23.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         1         5         15.3         15.3         23.8         8.5           Non HT80, 6 to 54 Mbps         1         5         15.3         23.8         8.6           VHT80, M0 to M9 1ss         1		VHT80 Beam Forming, M0 to M9 1ss	2		14.1	13.7			16.9	21.8	4.9
VHT80 Beam Forming, M0 to M9 2ss         3         7         11.9         11.6         12.0         16.6         22.8         6.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 Beam Forming, M0 to M9 1ss         4         11         7.2         6.9         13.0         18.8         5.8           VHT80 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         0.1         15.1         21.8         6.7           VHT80 Beam Forming, M0 to M9 2ss         4         6         11.9         11.6         12.0         11.7         7.8         23.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         11.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         13.8         19.9         23.8         5.1           VHT80 STBC, M0 to M9 1ss         1         5         15.3         23.8         8.4           Non HT80, 6 to 54 Mbps         1         5         15.2         12.3         15.4         23.8         6.3		VHT80 Beam Forming, M0 to M9 2ss	2	5	15.5	13.8			17.7	23.8	6.1
VH780 Beam Forming, M0 to M9 3ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VH780 Beam Forming, M0 to M9 1ss         4         11         7.2         6.9         13.0         18.8         5.8           VH780 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.0         15.1         21.8         6.7           VH780 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         7.8         23.8         6.0           VH780 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VH780 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         18.7         23.8         3.5           Non H780, 6 to 54 Mbps         1         5         15.3          15.4         23.8         8.6           Non H780, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.4         0.23.8         8.6           VH780, M0 to M9 1ss         1         5         16.9          16.9         23.8         6.3           VH780, M0		VHT80 Beam Forming, M0 to M9 1ss	3	10	8.3	8.0	8.3		13.0	19.8	6.8
VH780 Beam Forming, M0 to M9 1ss         4         11         7.2         6.7         7.2         6.9         13.0         18.8         5.8           VH780 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         9.0         15.1         21.8         6.7           VH780 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         7.7.2         3.8         6.1           VH780 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         7.2.3         6.1           VH780 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VH780 STBC, M0 to M9 1ss         1         5         15.3         15.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         1         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         1         5         16.9         9.1         14.0         23.8         8.6           VH780, M0 to M9 1ss         1         5         16.6         15.4         18.5         23.8         6.3		VHT80 Beam Forming, M0 to M9 2ss	3	7	11.9	11.6	12.0		16.6	22.8	6.2
VHT80 Beam Forming, M0 to M9 2ss         4         8         9.2         8.9         9.3         9.0         15.1         21.8         6.7           VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         17.8         23.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         15.3         15.3         15.3         23.8         8.5           Non HT80, 6 to 54 Mbps         1         5         15.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         8.8           Non HT80, 6 to 54 Mbps         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.3           VHT80, M0 to M9 1ss         3         5         14.1		VHT80 Beam Forming, M0 to M9 3ss	3	5	14.1	13.7	14.1		18.7	23.8	5.1
VHT80 Beam Forming, M0 to M9 3ss         4         6         11.9         11.6         12.0         11.7         17.8         23.8         6.0           VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         18.7         23.8         8.5           Non HT80, 6 to 54 Mbps         1         5         15.3         2         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.1         4.0         23.8         8.4           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss		VHT80 Beam Forming, M0 to M9 1ss	4	11	7.2	6.7	7.2	6.9	13.0	18.8	5.8
VHT80 STBC, M0 to M9 1ss         2         5         15.5         13.8         17.7         23.8         6.1           VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.8         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.8         18.7         23.8         3.9           Non HT80, 6 to 54 Mbps         1         5         15.3         15.3         23.8         8.4           Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         14.0         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         9.0         9.1         18.5         23.8         5.3           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         3 </td <td></td> <td>VHT80 Beam Forming, M0 to M9 2ss</td> <td>4</td> <td>8</td> <td>9.2</td> <td>8.9</td> <td>9.3</td> <td>9.0</td> <td>15.1</td> <td>21.8</td> <td>6.7</td>		VHT80 Beam Forming, M0 to M9 2ss	4	8	9.2	8.9	9.3	9.0	15.1	21.8	6.7
VHT80 STBC, M0 to M9 1ss         3         5         14.1         13.7         14.1         18.7         23.8         5.1           VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           Non HT80, 6 to 54 Mbps         1         5         15.3          15.3         23.8         8.5           Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss		VHT80 Beam Forming, M0 to M9 3ss	4	6	11.9	11.6	12.0	11.7	17.8	23.8	6.0
VHT80 STBC, M0 to M9 1ss         4         5         14.1         13.7         14.1         13.8         19.9         23.8         3.9           VHT80 STBC, M0 to M9 1ss         1         5         15.3         2         15.3         23.8         8.5           Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4		VHT80 STBC, M0 to M9 1ss	2	5	15.5	13.8			17.7	23.8	6.1
Non HT80, 6 to 54 Mbps         1         5         15.3         15.3         23.8         8.5           Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.1         0.0         23.8         6.9           VHT80, M0 to M9 1ss         1         5         16.6.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 2ss         4         5         12.9         12.7<		VHT80 STBC, M0 to M9 1ss	3	5	14.1	13.7	14.1		18.7	23.8	5.1
Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9		VHT80 STBC, M0 to M9 1ss	4	5	14.1	13.7	14.1	13.8	19.9	23.8	3.9
Non HT80, 6 to 54 Mbps         2         5         12.5         12.3         15.4         23.8         8.4           Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9											
Non HT80, 6 to 54 Mbps         3         5         9.5         9.0         9.1         14.0         23.8         9.8           Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.0         23.8         5.8           VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.9         18.0         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         2         8         12.9		Non HT80, 6 to 54 Mbps	1		15.3				15.3	23.8	8.5
Non HT80, 6 to 54 Mbps         4         5         9.5         9.0         9.1         9.3         15.2         23.8         8.6           VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         2         8		Non HT80, 6 to 54 Mbps	2	5	12.5	12.3			15.4	23.8	8.4
VHT80, M0 to M9 1ss         1         5         16.9         16.9         23.8         6.9           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         15.8         21.8         6.0           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.6         15.4 <t< td=""><td></td><td>Non HT80, 6 to 54 Mbps</td><td>3</td><td>5</td><td>9.5</td><td>9.0</td><td>9.1</td><td></td><td>14.0</td><td>23.8</td><td>9.8</td></t<>		Non HT80, 6 to 54 Mbps	3	5	9.5	9.0	9.1		14.0	23.8	9.8
VHT80, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 1ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         12.9         12.7         15.8         21.8         6.0           VHT80 Beam Forming, M0 to M9 2ss         3		Non HT80, 6 to 54 Mbps	4	5	9.5	9.0	9.1	9.3	15.2	23.8	8.6
VHT80, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         2         8         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80 Beam Forming, M0 to M9		VHT80, M0 to M9 1ss	1	5	16.9				16.9	23.8	6.9
VHT80, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 1ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         2         8         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         12.9         12.7         15.8         21.8         6.0           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3		VHT80, M0 to M9 1ss	2	5	15.6	15.4			18.5	23.8	5.3
VHT80, M0 to M9 2ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 1ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 2ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         12.9         12.7         12.9         18.9         23.8         5.3           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.1         10.8         11.0 <td< td=""><td></td><td>VHT80, M0 to M9 2ss</td><td>2</td><td>5</td><td>15.6</td><td>15.4</td><td></td><td></td><td>18.5</td><td>23.8</td><td>5.3</td></td<>		VHT80, M0 to M9 2ss	2	5	15.6	15.4			18.5	23.8	5.3
VHT80, M0 to M9 3ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8           VHT80, M0 to M9 1ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 1ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 2ss         4         5         12.9         12.7         12.9         12.9         18.9         23.8         4.9           VHT80, M0 to M9 3ss         4         5         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         12.9         12.7         12.9         18.9         23.8         4.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         12.9         12.7         15.8         21.8         6.0           VHT80 Beam Forming, M0 to M9 2ss         2         5         15.6         15.4         18.5         23.8         5.3           VHT80 Beam Forming, M0 to M9 2ss         3         7         11.1         10.8         11.0         15.7 <td></td> <td>VHT80, M0 to M9 1ss</td> <td>3</td> <td>5</td> <td>14.1</td> <td>12.6</td> <td>12.8</td> <td></td> <td>18.0</td> <td>23.8</td> <td>5.8</td>		VHT80, M0 to M9 1ss	3	5	14.1	12.6	12.8		18.0	23.8	5.8
VHT80, M0 to M9 1ss4512.912.712.912.918.923.84.9VHT80, M0 to M9 2ss4512.912.712.912.918.923.84.9VHT80, M0 to M9 3ss4512.912.712.912.918.923.84.9VHT80, M0 to M9 3ss4512.912.712.912.918.923.84.9VHT80 Beam Forming, M0 to M9 1ss2812.912.715.821.86.0VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 1ss3108.28.18.313.019.86.8VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 2ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3		VHT80, M0 to M9 2ss	3	5	14.1	12.6	12.8		18.0	23.8	5.8
VHT80, M0 to M9 2ss4512.912.712.912.918.923.84.9VHT80, M0 to M9 3ss4512.912.712.912.918.923.84.9VHT80 Beam Forming, M0 to M9 1ss2812.912.712.912.918.923.84.9VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 2ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 3ss44116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80, M0 to M9 3ss	3	5	14.1	12.6	12.8		18.0	23.8	5.8
WHT80, M0 to M9 3ss4512.912.712.912.918.923.84.9VHT80 Beam Forming, M0 to M9 1ss2812.912.715.821.86.0VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 1ss3108.28.18.313.019.86.8VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 2ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80, M0 to M9 1ss	4	5	12.9	12.7	12.9	12.9	18.9	23.8	4.9
VHT80 Beam Forming, M0 to M9 1ss2812.912.715.821.86.0VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 1ss3108.28.18.313.019.86.8VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 2ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8	06	VHT80, M0 to M9 2ss	4	5	12.9	12.7	12.9	12.9	18.9	23.8	4.9
VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 1ss3108.28.18.313.019.86.8VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8	56	VHT80, M0 to M9 3ss	4	5	12.9	12.7	12.9	12.9	18.9	23.8	4.9
VHT80 Beam Forming, M0 to M9 2ss2515.615.418.523.85.3VHT80 Beam Forming, M0 to M9 1ss3108.28.18.313.019.86.8VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80 Beam Forming, M0 to M9 1ss	2	8	12.9	12.7			15.8	21.8	6.0
VHT80 Beam Forming, M0 to M9 2ss3711.110.811.015.722.87.1VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 Beam Forming, M0 to M9 3ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss2514.112.612.818.023.85.8VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8			2	5	15.6	15.4			18.5	23.8	5.3
VHT80 Beam Forming, M0 to M9 3ss3514.112.612.818.023.85.8VHT80 Beam Forming, M0 to M9 1ss4116.35.96.26.212.218.86.6VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80 Beam Forming, M0 to M9 1ss	3	10	8.2	8.1	8.3		13.0	19.8	6.8
VHT80 Beam Forming, M0 to M9 1ss       4       11       6.3       5.9       6.2       6.2       12.2       18.8       6.6         VHT80 Beam Forming, M0 to M9 2ss       4       8       9.2       9.0       9.2       9.3       15.2       21.8       6.6         VHT80 Beam Forming, M0 to M9 3ss       4       6       11.1       10.8       11.0       11.1       17.0       23.8       6.8         VHT80 STBC, M0 to M9 1ss       2       5       15.6       15.4       18.5       23.8       5.3         VHT80 STBC, M0 to M9 1ss       3       5       14.1       12.6       12.8       18.0       23.8       5.8		VHT80 Beam Forming, M0 to M9 2ss	3	7	11.1	10.8	11.0		15.7	22.8	7.1
VHT80 Beam Forming, M0 to M9 2ss489.29.09.29.315.221.86.6VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80 Beam Forming, M0 to M9 3ss	3	5	14.1	12.6	12.8		18.0	23.8	5.8
VHT80 Beam Forming, M0 to M9 3ss4611.110.811.011.117.023.86.8VHT80 STBC, M0 to M9 1ss2515.615.418.523.85.3VHT80 STBC, M0 to M9 1ss3514.112.612.818.023.85.8		VHT80 Beam Forming, M0 to M9 1ss	4	11	6.3	5.9	6.2	6.2	12.2	18.8	6.6
VHT80 STBC, M0 to M9 1ss       2       5       15.6       15.4       18.5       23.8       5.3         VHT80 STBC, M0 to M9 1ss       3       5       14.1       12.6       12.8       18.0       23.8       5.8		VHT80 Beam Forming, M0 to M9 2ss	4	8	9.2	9.0	9.2	9.3	15.2	21.8	6.6
VHT80 STBC, M0 to M9 1ss         3         5         14.1         12.6         12.8         18.0         23.8         5.8		VHT80 Beam Forming, M0 to M9 3ss	4	6	11.1	10.8	11.0	11.1	17.0	23.8	6.8
		VHT80 STBC, M0 to M9 1ss	2	5	15.6	15.4			18.5	23.8	5.3
VHT80 STBC, M0 to M9 1ss 4 5 12.9 12.7 12.9 12.9 18.9 23.8 4.9		VHT80 STBC, M0 to M9 1ss	3	5	14.1	12.6	12.8		18.0	23.8	5.8
		VHT80 STBC, M0 to M9 1ss	4	5	12.9	12.7	12.9	12.9	18.9	23.8	4.9

Page No: 23 of 86

	Non HT40, 6 to 54 Mbps	1	5	16.3				16.3	23.9	7.6
	Non HT40, 6 to 54 Mbps	2	5	14.1	14.5			17.3	23.9	6.6
	Non HT40, 6 to 54 Mbps	3	5	13.2	12.4	12.7		17.6	23.9	6.3
	Non HT40, 6 to 54 Mbps	4	5	11.5	10.2	10.4	11.3	16.9	23.9	7.0
	HT/VHT40, M0 to M7	1	5	16.8				16.8	23.9	7.1
	HT/VHT40, M0 to M7	2	5	15.6	15.8			18.7	23.9	5.2
	HT/VHT40, M8 to M15	2	5	15.6	15.8			18.7	23.9	5.2
	HT/VHT40, M0 to M7	3	5	14.2	13.7	14.1		18.8	23.9	5.1
	HT/VHT40, M8 to M15	3	5	14.2	13.7	14.1		18.8	23.9	5.1
	HT/VHT40, M16 to M23	3	5	14.2	13.7	14.1		18.8	23.9	5.1
	HT/VHT40, M0 to M7	4	5	12.1	12.7	12.8	12.1	18.5	23.9	5.4
10	HT/VHT40, M8 to M15	4	5	12.1	12.7	12.8	12.1	18.5	23.9	5.4
57	HT/VHT40, M16 to M23	4	5	12.1	12.7	12.8	12.1	18.5	23.9	5.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	13.0	12.6			15.8	21.9	6.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	15.6	15.8			18.7	23.9	5.2
	HT/VHT40 Beam Forming, M0 to M7	3	10	7.3	6.6	6.9		11.7	19.9	8.2
	HT/VHT40 Beam Forming, M8 to M15	3	7	10.3	10.4	10.6		15.2	22.9	7.7
	HT/VHT40 Beam Forming, M16 to M23	3	5	14.2	13.7	14.1		18.8	23.9	5.1
	HT/VHT40 Beam Forming, M0 to M7	4	11	6.4	5.6	6.0	6.3	12.1	18.9	6.8
	HT/VHT40 Beam Forming, M8 to M15	4	8	9.2	9.2	9.4	9.3	15.3	21.9	6.6
	HT/VHT40 Beam Forming, M16 to M23	4	6	10.3	10.4	10.6	10.3	16.4	23.9	7.5
	HT/VHT40 STBC, M0 to M7	2	5	15.6	15.8			18.7	23.9	5.2
	HT/VHT40 STBC, M0 to M7	3	5	14.2	13.7	14.1		18.8	23.9	5.1
	HT/VHT40 STBC, M0 to M7	4	5	12.1	12.7	12.8	12.1	18.5	23.9	5.4
	Non HT20, 6 to 54 Mbps	1	5	16.7				16.7	24.0	7.3
	Non HT20, 6 to 54 Mbps	2	5	15.8	16.1			19.0	24.0	5.0
	Non HT20, 6 to 54 Mbps	3	5	12.3	12.7	13.0		17.4	24.0	6.6
	Non HT20, 6 to 54 Mbps	4	5	10.4	10.4	10.7	9.6	16.3	24.0	7.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	15.8	16.1			19.0	22.0	3.0
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	12.3	12.7	13.0		17.4	20.0	2.6
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	10.4	10.4	10.7	9.6	16.3	19.0	2.7
	HT/VHT20, M0 to M7	1	5	17.3				17.3	24.0	6.7
20	HT/VHT20, M0 to M7	2	5	16.0	16.3			19.2	24.0	4.8
57	HT/VHT20, M8 to M15	2	5	17.3	17.3			20.3	24.0	3.7
	HT/VHT20, M0 to M7	3	5	12.4	12.9	13.2		17.6	24.0	6.4
	HT/VHT20, M8 to M15	3	5	15.8	15.3	15.4		20.3	24.0	3.7
	HT/VHT20, M16 to M23	3	5	16.0	16.3	16.4		21.0	24.0	3.0
	HT/VHT20, M0 to M7	4	5	10.6	10.6	10.8	9.9	16.5	24.0	7.5
	HT/VHT20, M8 to M15	4	5	13.3	12.8	13.1	12.7	19.0	24.0	5.0
	HT/VHT20, M16 to M23	4	5	15.8	15.3	15.4	14.1	21.2	24.0	2.8
	HT/VHT20 Beam Forming, M0 to M7	2	8	16.0	16.3			19.2	22.0	2.8
	HT/VHT20 Beam Forming, M8 to M15	2	5	17.3	17.3			20.3	24.0	3.7
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Page No: 24 of 86

HT/VHT20 Beam Forming, M0 to M7	3	10	12.4	12.9	13.2		17.6	20.0	2.4
HT/VHT20 Beam Forming, M8 to M15	3	7	15.8	15.3	15.4		20.3	23.0	2.7
HT/VHT20 Beam Forming, M16 to M23	3	5	16.0	16.3	16.4		21.0	24.0	3.0
HT/VHT20 Beam Forming, M0 to M7	4	11	10.6	10.6	10.8	9.9	16.5	19.0	2.5
HT/VHT20 Beam Forming, M8 to M15	4	8	13.3	12.8	13.1	12.7	19.0	22.0	3.0
HT/VHT20 Beam Forming, M16 to M23	4	6	15.8	15.3	15.4	14.1	21.2	24.0	2.8
HT/VHT20 STBC, M0 to M7	2	5	17.3	17.3			20.3	24.0	3.7
HT/VHT20 STBC, M0 to M7	3	5	15.8	15.3	15.4		20.3	24.0	3.7
HT/VHT20 STBC, M0 to M7	4	5	13.3	12.8	13.1	12.7	19.0	24.0	5.0

Page No: 25 of 86

### Maximum Transmit Output Power, 5720 MHz, HT/VHT20 Beam Forming, M0 to M7





Antenna B

Antenna A



Antenna C

Page No: 26 of 86

Power Spectral Density

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Tx 3 PSD (dBm/MHz)	Tx 4 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	5.8				5.8	11.0	5.2
	Non HT20, 6 to 54 Mbps	2	8	4.6	2.6			6.7	9.0	2.3
	Non HT20, 6 to 54 Mbps	3	10	2.2	1.2	1.5		6.4	7.0	0.6
	Non HT20, 6 to 54 Mbps	4	11	0.4	-0.5	-0.7	-0.6	5.7	6.0	0.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	2.2	1.2			4.7	9.0	4.3
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-1.6	-2.5	-2.8		2.5	7.0	4.5
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-4.0	-4.7	-4.8	-4.9	1.4	6.0	4.6
	HT/VHT20, M0 to M7	1	5	4.7				4.7	11.0	6.3
	HT/VHT20, M0 to M7	2	8	4.2	2.4			6.4	9.0	2.6
	HT/VHT20, M8 to M15	2	5	4.2	2.4			6.4	11.0	4.6
	HT/VHT20, M0 to M7	3	10	1.8	1.3	1.4		6.3	7.0	0.7
	HT/VHT20, M8 to M15	3	7	3.3	2.3	2.2		7.4	10.0	2.6
	HT/VHT20, M16 to M23	3	5	3.3	2.3	2.2		7.4	11.0	3.6
5500	HT/VHT20, M0 to M7	4	11	-0.1	-0.7	-0.5	-0.9	5.5	6.0	0.5
5	HT/VHT20, M8 to M15	4	8	1.8	1.3	1.4	1.1	7.4	9.0	1.6
	HT/VHT20, M16 to M23	4	6	1.8	1.3	1.4	1.1	7.4	11.0	3.6
	HT/VHT20 Beam Forming, M0 to M7	2	8	0.9	0.2			3.6	9.0	5.4
	HT/VHT20 Beam Forming, M8 to M15	2	5	4.2	2.4			6.4	11.0	4.6
	HT/VHT20 Beam Forming, M0 to M7	3	10	-1.9	-2.5	-2.9		2.4	7.0	4.6
	HT/VHT20 Beam Forming, M8 to M15	3	7	0.9	0.2	0.3		5.2	10.0	4.8
	HT/VHT20 Beam Forming, M16 to M23	3	5	3.3	2.3	2.2		7.4	11.0	3.6
	HT/VHT20 Beam Forming, M0 to M7	4	11	-3.7	-4.5	-4.5	-4.9	1.6	6.0	4.4
	HT/VHT20 Beam Forming, M8 to M15	4	8	-1.9	-2.5	-2.9	-2.5	3.6	9.0	5.4
	HT/VHT20 Beam Forming, M16 to M23	4	6	0.9	0.2	0.3	0.1	6.4	11.0	4.6
	HT/VHT20 STBC, M0 to M7	2	5	4.2	2.4			6.4	11.0	4.6
	HT/VHT20 STBC, M0 to M7	3	7	3.3	2.3	2.2		7.4	10.0	2.6
	HT/VHT20 STBC, M0 to M7	4	8	1.8	1.3	1.4	1.1	7.4	9.0	1.6
	Non HT40, 6 to 54 Mbps	1	5	-2.5				-2.5	10.9	13.4
	Non HT40, 6 to 54 Mbps	2	8	-4.2	-4.9			-1.5	8.9	10.4
	Non HT40, 6 to 54 Mbps	3	10	-4.2	-4.9	-5.2		0.0	6.9	6.9
5510	Non HT40, 6 to 54 Mbps	4	11	-6.3	-6.7	-6.6	-6.7	-0.6	5.9	6.5
5	HT/VHT40, M0 to M7	1	5	-0.1				-0.1	10.9	11.0
	HT/VHT40, M0 to M7	2	8	-2.0	-2.3			0.9	8.9	8.0
	HT/VHT40, M8 to M15	2	5	-2.0	-2.3			0.9	10.9	10.0

Page No: 27 of 86

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	HT/VHT40, M0 to M7	3	10	-3.3	-3.8	-3.7		1.2	6.9	5.7
	HT/VHT40, M8 to M15	3	7	-3.3	-3.8	-3.7		1.2	9.9	8.7
	HT/VHT40, M16 to M23	3	5	-3.3	-3.8	-3.7		1.2	10.9	9.7
	HT/VHT40, M0 to M7	4	11	-3.7	-4.6	-4.6	-4.1	1.8	5.9	4.1
	HT/VHT40, M8 to M15	4	8	-3.7	-4.6	-4.6	-4.1	1.8	8.9	7.1
	HT/VHT40, M16 to M23	4	6	-3.7	-4.6	-4.6	-4.1	1.8	10.9	9.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	-3.7	-4.6			-1.1	8.9	10.0
	HT/VHT40 Beam Forming, M8 to M15	2	5	-2.0	-2.3			0.9	10.9	10.0
	HT/VHT40 Beam Forming, M0 to M7	3	10	-7.3	-7.6	-7.7		-2.8	6.9	9.7
	HT/VHT40 Beam Forming, M8 to M15	3	7	-4.9	-5.5	-5.6		-0.6	9.9	10.5
	HT/VHT40 Beam Forming, M16 to M23	3	5	-3.3	-3.8	-3.7		1.2	10.9	9.7
	HT/VHT40 Beam Forming, M0 to M7	4	11	-10.3	-10.7	-10.7	-10.4	-4.5	5.9	10.4
	HT/VHT40 Beam Forming, M8 to M15	4	8	-7.3	-7.6	-7.7	-7.3	-1.5	8.9	10.4
	HT/VHT40 Beam Forming, M16 to M23	4	6	-4.9	-5.5	-5.6	-5.3	0.7	10.9	10.2
	HT/VHT40 STBC, M0 to M7	2	5	-2.0	-2.3			0.9	10.9	10.0
	HT/VHT40 STBC, M0 to M7	3	7	-3.3	-3.8	-3.7		1.2	9.9	8.7
	HT/VHT40 STBC, M0 to M7	4	8	-3.7	-4.6	-4.6	-4.1	1.8	8.9	7.1
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	Non HT80, 6 to 54 Mbps	1	5	-6.4				-6.4	10.8	17.2
	Non HT80, 6 to 54 Mbps	2	8	-8.0	-9.4			-5.6	8.8	14.4
	Non HT80, 6 to 54 Mbps	3	10	-9.0	-10.4	-10.4		-5.1	6.8	11.9
	Non HT80, 6 to 54 Mbps	4	11	-9.0	-10.4	-10.4	-10.3	-4.0	5.8	9.8
	VHT80, M0 to M9 1ss	1	5	-3.8				-3.8	10.8	14.6
	VHT80, M0 to M9 1ss	2	8	-4.9	-5.4			-2.1	8.8	10.9
	VHT80, M0 to M9 2ss	2	5	-4.9	-5.4			-2.1	10.8	12.9
	VHT80, M0 to M9 1ss	3	10	-5.8	-6.1	-6.1		-1.2	6.8	8.0
	VHT80, M0 to M9 2ss	3	7	-5.8	-6.1	-6.1		-1.2	9.8	11.0
	VHT80, M0 to M9 3ss	3	5	-5.8	-6.1	-6.1		-1.2	10.8	12.0
	VHT80, M0 to M9 1ss	4	11	-6.9	-7.2	-7.1	-7.0	-1.0	5.8	6.8
30	VHT80, M0 to M9 2ss	4	8	-6.9	-7.2	-7.1	-7.0	-1.0	8.8	9.8
5530	VHT80, M0 to M9 3ss	4	6	-6.9	-7.2	-7.1	-7.0	-1.0	10.8	11.8
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-6.9	-7.2			-4.0	8.8	12.8
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-4.9	-5.4			-2.1	10.8	12.9
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-9.8	-9.4	-9.6		-4.8	6.8	11.6
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-6.9	-7.2	-7.1		-2.3	9.8	12.1
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-5.8	-6.1	-6.1		-1.2	10.8	12.0
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-10.8	-10.9	-10.5	-10.7	-4.7	5.8	10.5
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-8.9	-9.0	-9.0	-8.5	-2.8	8.8	11.6
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-7.9	-7.8	-7.9	-7.9	-1.9	10.8	12.7
	VHT80 STBC, M0 to M9 1ss	2	5	-4.9	-5.4			-2.1	10.8	12.9
	VHT80 STBC, M0 to M9 1ss	3	5	-5.8	-6.1	-6.1		-1.2	10.8	12.0
	VHT80 STBC, M0 to M9 1ss	4	5	-6.9	-7.2	-7.1	-7.0	-1.0	10.8	11.8

Page No: 28 of 86

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	Non HT40, 6 to 54 Mbps	1	5	3.2				3.2	10.9	7.7
	Non HT40, 6 to 54 Mbps	2	8	-0.8	-2.2			1.6	8.9	7.3
	Non HT40, 6 to 54 Mbps	3	10	-1.8	-3.0	-1.8		2.6	6.9	4.3
	Non HT40, 6 to 54 Mbps	4	11	-1.8	-3.0	-1.8	-2.1	3.9	5.9	2.0
	HT/VHT40, M0 to M7	1	5	2.7				2.7	10.9	8.2
	HT/VHT40, M0 to M7	2	8	1.3	0.3			3.8	8.9	5.1
	HT/VHT40, M8 to M15	2	5	1.3	0.3			3.8	10.9	7.1
	HT/VHT40, M0 to M7	3	10	0.2	-0.8	0.3		4.7	6.9	2.2
	HT/VHT40, M8 to M15	3	7	0.2	-0.8	0.3		4.7	9.9	5.2
	HT/VHT40, M16 to M23	3	5	0.2	-0.8	0.3		4.7	10.9	6.2
	HT/VHT40, M0 to M7	4	11	-0.8	-0.4	-0.9	-1.0	5.3	5.9	0.6
5550	HT/VHT40, M8 to M15	4	8	-0.8	-0.4	-0.9	-1.0	5.3	8.9	3.6
55	HT/VHT40, M16 to M23	4	6	-0.8	-0.4	-0.9	-1.0	5.3	10.9	5.6
	HT/VHT40 Beam Forming, M0 to M7	2	8	0.2	-0.8			2.7	8.9	6.2
	HT/VHT40 Beam Forming, M8 to M15	2	5	1.3	0.3			3.8	10.9	7.1
	HT/VHT40 Beam Forming, M0 to M7	3	10	-6.4	-7.1	-6.8		-2.0	6.9	8.9
	HT/VHT40 Beam Forming, M8 to M15	3	7	-2.1	-2.0	-1.4		2.9	9.9	7.0
	HT/VHT40 Beam Forming, M16 to M23	3	5	0.2	-0.8	0.3		4.7	10.9	6.2
	HT/VHT40 Beam Forming, M0 to M7	4	11	-6.4	-7.1	-6.8	-6.8	-0.7	5.9	6.6
	HT/VHT40 Beam Forming, M8 to M15	4	8	-4.7	-4.9	-4.9	-4.5	1.3	8.9	7.6
	HT/VHT40 Beam Forming, M16 to M23	4	6	-2.1	-2.0	-1.4	-1.9	4.2	10.9	6.7
	HT/VHT40 STBC, M0 to M7	2	5	1.3	0.3			3.8	10.9	7.1
	HT/VHT40 STBC, M0 to M7	3	7	0.2	-0.8	0.3		4.7	9.9	5.2
	HT/VHT40 STBC, M0 to M7	4	8	-0.8	-0.4	-0.9	-1.0	5.3	8.9	3.6
	Non HT20, 6 to 54 Mbps	1	5	6.1				6.1	11.0	4.9
	Non HT20, 6 to 54 Mbps	2	8	4.3	3.2			6.8	9.0	2.2
	Non HT20, 6 to 54 Mbps	3	10	1.9	2.1	2.1		6.8	7.0	0.2
	Non HT20, 6 to 54 Mbps	4	11	-1.0	-1.3	-0.9	-1.2	4.9	6.0	1.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	3.0	3.1			6.1	9.0	2.9
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-2.6	-3.3	-3.0		1.8	7.0	5.2
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-3.8	-4.2	-4.1	-4.1	2.0	6.0	4.0
$\sim$	HT/VHT20, M0 to M7	1	5	5.8				5.8	11.0	5.2
5560	HT/VHT20, M0 to M7	2	8	4.1	3.0			6.6	9.0	2.4
5	HT/VHT20, M8 to M15	2	5	4.1	3.0			6.6	11.0	4.4
	HT/VHT20, M0 to M7	3	10	1.9	2.1	1.9		6.7	7.0	0.3
	HT/VHT20, M8 to M15	3	7	3.2	2.9	3.4		7.9	10.0	2.1
	HT/VHT20, M16 to M23	3	5	3.2	2.9	3.4		7.9	11.0	3.1
	HT/VHT20, M0 to M7	4	11	0.1	-0.3	0.1	0.0	6.0	6.0	0.0
	HT/VHT20, M8 to M15	4	8	1.9	2.1	1.9	1.6	7.9	9.0	1.1
	HT/VHT20, M16 to M23	4	6	1.9	2.1	1.9	1.6	7.9	11.0	3.1
	HT/VHT20 Beam Forming, M0 to M7	2	8	3.2	2.9			6.1	9.0	2.9

Page No: 29 of 86

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	HT/VHT20 Beam Forming, M8 to M15	2	5	4.1	3.0			6.6	11.0	4.4
	HT/VHT20 Beam Forming, M0 to M7	3	10	-2.8	-3.4	-3.3		1.6	7.0	5.4
	HT/VHT20 Beam Forming, M8 to M15	3	7	1.4	0.8	1.0		5.8	10.0	4.2
	HT/VHT20 Beam Forming, M16 to M23	3	5	3.2	2.9	3.4		7.9	11.0	3.1
	HT/VHT20 Beam Forming, M0 to M7	4	11	-3.6	-4.5	-4.2	-4.3	1.9	6.0	4.1
	HT/VHT20 Beam Forming, M8 to M15	4	8	-1.7	-2.0	-2.1	-2.4	4.0	9.0	5.0
	HT/VHT20 Beam Forming, M16 to M23	4	6	1.4	0.8	1.0	0.5	7.0	11.0	4.0
	HT/VHT20 STBC, M0 to M7	2	5	4.1	3.0			6.6	11.0	4.4
	HT/VHT20 STBC, M0 to M7	3	7	3.2	2.9	3.4		7.9	10.0	2.1
	HT/VHT20 STBC, M0 to M7	4	8	1.9	2.1	1.9	1.6	7.9	9.0	1.1
	Non HT160, 6 to 54 Mbps	1	5	-9.9				-9.9	10.8	20.7
	Non HT160, 6 to 54 Mbps	2	8	-11.8	-11.6			-8.7	8.8	17.5
	Non HT160, 6 to 54 Mbps	3	10	-14.5	-16.2	-15.8		-10.7	6.8	17.5
	Non HT160, 6 to 54 Mbps	4	11	-15.5	-15.6	-15.9	-15.4	-9.6	5.8	15.4
	VHT160, M0 to M9 1ss	1	5	-7.4				-7.4	10.8	18.2
	VHT160, M0 to M9 1ss	2	8	-7.4	-8.0			-4.7	8.8	13.5
	VHT160, M0 to M9 2ss	2	5	-7.4	-8.0			-4.7	10.8	15.5
	VHT160, M0 to M9 1ss	3	10	-8.7	-8.8	-9.0		-4.1	6.8	10.9
	VHT160, M0 to M9 2ss	3	7	-8.7	-8.8	-9.0		-4.1	9.8	13.9
	VHT160, M0 to M9 3ss	3	5	-8.7	-8.8	-9.0		-4.1	10.8	14.9
	VHT160, M0 to M9 1ss	4	11	-8.7	-8.8	-9.0	-8.9	-2.8	5.8	8.6
20	VHT160, M0 to M9 2ss	4	8	-8.7	-8.8	-9.0	-8.9	-2.8	8.8	11.6
5570	VHT160, M0 to M9 3ss	4	6	-8.7	-8.8	-9.0	-8.9	-2.8	10.8	13.6
	VHT160 Beam Forming, M0 to M9 1ss	2	8	-8.7	-8.8			-5.7	8.8	14.5
	VHT160 Beam Forming, M0 to M9 2ss	2	5	-7.4	-8.0			-4.7	10.8	15.5
	VHT160 Beam Forming, M0 to M9 1ss	3	10	-11.7	-11.8	-11.8		-7.0	6.8	13.8
	VHT160 Beam Forming, M0 to M9 2ss	3	7	-9.7	-10.0	-9.9		-5.1	9.8	14.9
	VHT160 Beam Forming, M0 to M9 3ss	3	5	-8.7	-8.8	-9.0		-4.1	10.8	14.9
	VHT160 Beam Forming, M0 to M9 1ss	4	11	-13.3	-13.6	-13.7	-13.5	-7.5	5.8	13.3
	VHT160 Beam Forming, M0 to M9 2ss	4	8	-11.7	-11.8	-11.8	-11.4	-5.7	8.8	14.5
	VHT160 Beam Forming, M0 to M9 3ss	4	6	-9.7	-10.0	-9.9	-9.4	-3.7	10.8	14.5
	VHT160 STBC, M0 to M9 1ss	2	5	-7.4	-8.0			-4.7	10.8	15.5
	VHT160 STBC, M0 to M9 1ss	3	5	-8.7	-8.8	-9.0		-4.1	10.8	14.9
	VHT160 STBC, M0 to M9 1ss	4	5	-8.7	-8.8	-9.0	-8.9	-2.8	10.8	13.6
	Non HT80, 6 to 54 Mbps	1	5	-3.1				-3.1	10.8	13.9
	Non HT80, 6 to 54 Mbps	2	8	-4.4	-4.7			-1.5	8.8	10.3
	Non HT80, 6 to 54 Mbps	3	10	-7.2	-8.7	-8.5		-3.3	6.8	10.1
5610	Non HT80, 6 to 54 Mbps	4	11	-8.3	-9.9	-9.1	-9.5	-3.1	5.8	8.9
5	VHT80, M0 to M9 1ss	1	5	-0.5				-0.5	10.8	11.3
	VHT80, M0 to M9 1ss	2	8	-2.0	-3.5			0.3	8.8	8.5
	VHT80, M0 to M9 2ss	2	5	-2.0	-3.5			0.3	10.8	10.5

Page No: 30 of 86

	VHT80, M0 to M9 1ss	3	10	-3.3	-3.6	-3.0		1.5	6.8	5.3
	VHT80, M0 to M9 2ss	3	7	-3.3	-3.6	-3.0		1.5	9.8	8.3
	VHT80, M0 to M9 3ss	3	5	-3.3	-3.6	-3.0		1.5	10.8	9.3
	VHT80, M0 to M9 1ss	4	11	-3.3	-3.6	-3.0	-3.6	2.7	5.8	3.1
	VHT80, M0 to M9 2ss	4	8	-3.3	-3.6	-3.0	-3.6	2.7	8.8	6.1
	VHT80, M0 to M9 3ss	4	6	-3.3	-3.6	-3.0	-3.6	2.7	10.8	8.1
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-3.3	-3.6			-0.4	8.8	9.2
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-2.0	-3.5			0.3	10.8	10.5
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-9.1	-9.3	-8.9		-4.3	6.8	11.1
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-5.7	-5.6	-5.1		-0.7	9.8	10.5
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-3.3	-3.6	-3.0		1.5	10.8	9.3
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-10.3	-10.4	-9.8	-10.6	-4.2	5.8	10.0
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-8.2	-8.6	-7.9	-8.4	-2.2	8.8	11.0
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-5.7	-5.6	-5.1	-5.6	0.5	10.8	10.3
	VHT80 STBC, M0 to M9 1ss	2	5	-2.0	-3.5			0.3	10.8	10.5
	VHT80 STBC, M0 to M9 1ss	3	5	-3.3	-3.6	-3.0		1.5	10.8	9.3
	VHT80 STBC, M0 to M9 1ss	4	5	-3.3	-3.6	-3.0	-3.6	2.7	10.8	8.1
	Non HT80, 6 to 54 Mbps	1	5	-1.2				-1.2	10.8	12.0
	Non HT80, 6 to 54 Mbps	2	8	-4.2	-4.2			-1.2	8.8	10.0
	Non HT80, 6 to 54 Mbps	3	10	-7.5	-7.9	-6.8		-2.6	6.8	9.4
	Non HT80, 6 to 54 Mbps	4	11	-7.5	-7.9	-6.8	-7.7	-1.4	5.8	7.2
	VHT80, M0 to M9 1ss	1	5	0.2				0.2	10.8	10.6
	VHT80, M0 to M9 1ss	2	8	-1.7	-1.8			1.3	8.8	7.5
	VHT80, M0 to M9 2ss	2	5	-1.7	-1.8			1.3	10.8	9.5
	VHT80, M0 to M9 1ss	3	10	-3.2	-4.7	-4.5		0.7	6.8	6.1
	VHT80, M0 to M9 2ss	3	7	-3.2	-4.7	-4.5		0.7	9.8	9.1
	VHT80, M0 to M9 3ss	3	5	-3.2	-4.7	-4.5		0.7	10.8	10.1
	VHT80, M0 to M9 1ss	4	11	-4.2	-4.8	-4.0	-4.5	1.7	5.8	4.1
690	VHT80, M0 to M9 2ss	4	8	-4.2	-4.8	-4.0	-4.5	1.7	8.8	7.1
56	VHT80, M0 to M9 3ss	4	6	-4.2	-4.8	-4.0	-4.5	1.7	10.8	9.1
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-4.2	-4.8			-1.5	8.8	10.3
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-1.7	-1.8			1.3	10.8	9.5
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-8.8	-9.1	-9.0		-4.2	6.8	11.0
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-6.2	-6.6	-6.4		-1.6	9.8	11.4
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-3.2	-4.7	-4.5		0.7	10.8	10.1
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-10.8	-11.5	-11.4	-11.2	-5.2	5.8	11.0
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-7.9	-8.3	-7.9	-8.2	-2.1	8.8	10.9
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-6.2	-6.6	-6.4	-6.5	-0.4	10.8	11.2
	VHT80 STBC, M0 to M9 1ss	2	5	-1.7	-1.8			1.3	10.8	9.5
	VHT80 STBC, M0 to M9 1ss	3	5	-3.2	-4.7	-4.5		0.7	10.8	10.1
	VHT80 STBC, M0 to M9 1ss	4	5	-4.2	-4.8	-4.0	-4.5	1.7	10.8	9.1
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Page No: 31 of 86

cisco

		4	F	2.4				2.4	10.0	7.0
	Non HT40, 6 to 54 Mbps	1	5	3.1	1.0			3.1	10.9	7.8
	Non HT40, 6 to 54 Mbps	2	8	0.9	1.0	0.0		4.0	8.9	4.9
	Non HT40, 6 to 54 Mbps	3	10	0.1	-1.2	-0.9	2.0	4.1	6.9	2.8
	Non HT40, 6 to 54 Mbps	4	11	-1.8	-3.0	-3.1	-2.0	3.6	5.9	2.3
	HT/VHT40, M0 to M7	1	5	3.3	2.0			3.3	10.9	7.6
	HT/VHT40, M0 to M7	2	8	1.7	2.0			4.9	8.9	4.0
	HT/VHT40, M8 to M15	2	5	1.7	2.0	0.0		4.9	10.9	6.0
	HT/VHT40, M0 to M7	3	10	0.3	0.0	0.2		4.9	6.9	2.0
	HT/VHT40, M8 to M15	3	7	0.3	0.0	0.2		4.9	9.9	5.0
	HT/VHT40, M16 to M23	3	5	0.3	0.0	0.2	4.5	4.9	10.9	6.0
~	HT/VHT40, M0 to M7	4	11	-1.8	-1.3	-0.8	-1.5	4.7	5.9	1.2
5710	HT/VHT40, M8 to M15	4	8	-1.8	-1.3	-0.8	-1.5	4.7	8.9	4.2
5	HT/VHT40, M16 to M23	4	6	-1.8	-1.3	-0.8	-1.5	4.7	10.9	6.2
	HT/VHT40 Beam Forming, M0 to M7	2	8	-0.6	-1.0			2.2	8.9	6.7
	HT/VHT40 Beam Forming, M8 to M15	2	5	1.7	2.0			4.9	10.9	6.0
	HT/VHT40 Beam Forming, M0 to M7	3	10	-6.4	-6.8	-6.8		-1.9	6.9	8.8
	HT/VHT40 Beam Forming, M8 to M15	3	7	-3.5	-3.4	-3.2		1.4	9.9	8.5
	HT/VHT40 Beam Forming, M16 to M23	3	5	0.3	0.0	0.2		4.9	10.9	6.0
	HT/VHT40 Beam Forming, M0 to M7	4	11	-7.5	-8.3	-7.8	-7.5	-1.7	5.9	7.6
	HT/VHT40 Beam Forming, M8 to M15	4	8	-4.5	-4.5	-4.5	-4.5	1.5	8.9	7.4
	HT/VHT40 Beam Forming, M16 to M23	4	6	-3.5	-3.4	-3.2	-3.5	2.6	10.9	8.3
	HT/VHT40 STBC, M0 to M7	2	5	1.7	2.0			4.9	10.9	6.0
	HT/VHT40 STBC, M0 to M7	3	7	0.3	0.0	0.2		4.9	9.9	5.0
	HT/VHT40 STBC, M0 to M7	4	8	-1.8	-1.3	-0.8	-1.5	4.7	8.9	4.2
			_					_		-
	Non HT20, 6 to 54 Mbps	1	5	6.2				6.2	11.0	4.8
	Non HT20, 6 to 54 Mbps	2	8	5.2	5.6			8.4	9.0	0.6
	Non HT20, 6 to 54 Mbps	3	10	1.6	2.1	2.6		6.9	7.0	0.1
	Non HT20, 6 to 54 Mbps	4	11	-0.1	-0.1	0.0	-0.9	5.8	6.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	5.2	5.6			8.4	9.0	0.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	1.6	2.1	2.6		6.9	7.0	0.1
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-0.1	-0.1	0.0	-0.9	5.8	6.0	0.2
0	HT/VHT20, M0 to M7	1	5	6.4				6.4	11.0	4.6
5720	HT/VHT20, M0 to M7	2	8	5.1	5.6			8.4	9.0	0.6
~/	HT/VHT20, M8 to M15	2	5	6.4	6.6			9.5	11.0	1.5
	HT/VHT20, M0 to M7	3	10	1.6	2.2	2.7		7.0	7.0	0.0
	HT/VHT20, M8 to M15	3	7	4.9	4.6	4.4		9.4	10.0	0.6
	HT/VHT20, M16 to M23	3	5	5.1	5.6	5.7		10.2	11.0	0.8
	HT/VHT20, M0 to M7	4	11	0.0	-0.3	0.0	-0.9	5.7	6.0	0.3
	HT/VHT20, M8 to M15	4	8	2.5	2.0	2.5	1.8	8.2	9.0	0.8
	HT/VHT20, M16 to M23	4	6	4.9	4.6	4.4	3.6	10.4	11.0	0.6
	HT/VHT20 Beam Forming, M0 to M7	2	8	5.1	5.6			8.4	9.0	0.6

Page No: 32 of 86

cisco

HT/VHT20 Beam Forming, M8 to M15	2	5	6.4	6.6			9.5	11.0	1.5
HT/VHT20 Beam Forming, M0 to M7	3	10	1.6	2.2	2.7		7.0	7.0	0.0
HT/VHT20 Beam Forming, M8 to M15	3	7	4.9	4.6	4.4		9.4	10.0	0.6
HT/VHT20 Beam Forming, M16 to M23	3	5	5.1	5.6	5.7		10.2	11.0	0.8
HT/VHT20 Beam Forming, M0 to M7	4	11	0.0	-0.3	0.0	-0.9	5.7	6.0	0.3
HT/VHT20 Beam Forming, M8 to M15	4	8	2.5	2.0	2.5	1.8	8.2	9.0	0.8
HT/VHT20 Beam Forming, M16 to M23	4	6	4.9	4.6	4.4	3.6	10.4	11.0	0.6
HT/VHT20 STBC, M0 to M7	2	5	6.4	6.6			9.5	11.0	1.5
HT/VHT20 STBC, M0 to M7	3	7	4.9	4.6	4.4		9.4	10.0	0.6
HT/VHT20 STBC, M0 to M7	4	8	2.5	2.0	2.5	1.8	8.2	9.0	0.8

Page No: 33 of 86

### Power Spectral Density, 5560 MHz, HT/VHT20, M0 to M7







Antenna C



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Antenna D

Page No: 34 of 86

# A.3 Conducted Spurious Emissions

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

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

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

### **Test Procedure**

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10: 2013

#### Conducted Spurious Emissions

Test Procedure

1. Connect the antenna port(s) to the spectrum analyzer input.

2. Place the radio in continuous transmit mode. Use the procedures in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 to substitute conducted measurements in place of radiated measurements.

3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

4. Record the marker waveform peak to spur difference. Also measure any emissions in the restricted bands.

5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the

measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded.

6. Capture graphs and record pertinent measurement data.

### Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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

Conducted Spurious Emissions
Test parameters
Span = 30MHz to 18GHz / 18GHz to 40GHz
RBW = 1 MHz
$VBW \ge 3 \times RBW$
Sweep = Auto couple
Detector = Peak Average
Trace = Max Hold.

System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	$\mathbf{\nabla}$	
	Support	S02		$\checkmark$

Tested By :	Date of testing:		
Jose Aguirre	1-Nov-17 - 19-Mar-18		
Test Result : PASS			

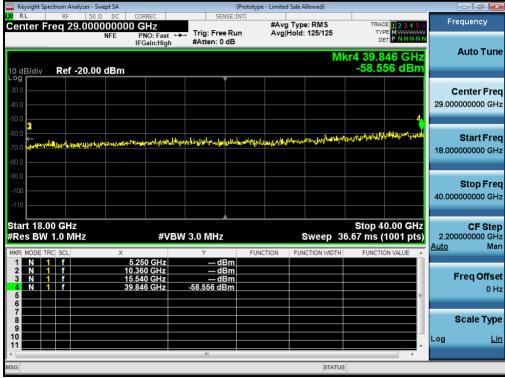
See Appendix C for list of test equipment

Page No: 35 of 86

Keysight Spectrum Analyzer - Sw	vept SA	(Pr	ototype - Limited	d Sale Allowed)		
enter Freq 29.000	000000 GHz	SENSE:INT	#Avg	Type: RMS Hold: 125/125	TRACE 1 2 3 4 5 6 TYPE A WWWWW	Frequency
10 dB/div <b>Ref -20.00</b>	NFE PNO: Fast ↔ IFGain:High	#Atten: 0 dB			r4 38.900 GHz -78.908 dBm	Auto Tune
-og 30.0 40.0 50.0						Center Fred 29.000000000 GH2
70.0 60.0 70.0 60.0					4-	Start Free 18.000000000 GH:
90.0						Stop Free 40.000000000 GH:
Start 18.00 GHz Res BW 1.0 MHz	#VBV	¥ 3.0 MHz*	FUNCTION	Sweep 36	Stop 40.00 GHz .67 ms (1001 pts)	<b>CF Step</b> 2.200000000 GH: <u>Auto</u> Mar
1 N 1 f 2 N 1 f 3 N 1 f 4 N 1 f 5 6	5.250 GHz 10.360 GHz 15.540 GHz 38.900 GHz	dBm dBm dBm -78.908 dBm			=	Freq Offse 0 Hz
7 8 9 10						Scale Type
11 SG				STATUS	+	

### Conducted Spurs Average, All Antennas

### Conducted Spurs Peak Upper, All Antennas



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

Page No: 36 of 86

1										
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Tx 3 Spur Power (dBm)	Tx 4 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	-48.9				-43.9	-41.25	2.7
	Non HT20, 6 to 54 Mbps	2	5	-52.0	-50.6			-43.2	-41.25	2.0
	Non HT20, 6 to 54 Mbps	3	5	-53.0	-51.7	-54.2		-43.1	-41.25	1.8
	Non HT20, 6 to 54 Mbps	4	5	-54.0	-52.5	-54.7	-56.0	-43.1	-41.25	1.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-53.0	-51.7			-41.3	-41.25	0.0
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-57.9	-56.8	-55.3		-41.8	-41.25	0.5
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-58.9	-57.5	-59.8	-61.4	-42.2	-41.25	0.9
	HT/VHT20, M0 to M7	1	5	-49.3				-44.3	-41.25	3.1
	HT/VHT20, M0 to M7	2	5	-51.8	-48.2			-41.6	-41.25	0.4
	HT/VHT20, M8 to M15	2	5	-51.8	-48.2			-41.6	-41.25	0.4
	HT/VHT20, M0 to M7	3	5	-53.0	-51.5	-53.9		-42.9	-41.25	1.7
	HT/VHT20, M8 to M15	3	5	-52.4	-51.0	-50.7		-41.5	-41.25	0.3
	HT/VHT20, M16 to M23	3	5	-52.4	-51.0	-50.7		-41.5	-41.25	0.3
5500	HT/VHT20, M0 to M7	4	5	-53.9	-52.4	-54.6	-56.1	-43.0	-41.25	1.8
5	HT/VHT20, M8 to M15	4	5	-53.0	-51.5	-53.9	-55.2	-42.2	-41.25	0.9
	HT/VHT20, M16 to M23	4	5	-53.0	-51.5	-53.9	-55.2	-42.2	-41.25	0.9
	HT/VHT20 Beam Forming, M0 to M7	2	8	-53.4	-51.9			-41.6	-41.25	0.3
	HT/VHT20 Beam Forming, M8 to M15	2	5	-51.8	-48.2			-41.6	-41.25	0.4
	HT/VHT20 Beam Forming, M0 to M7	3	10	-57.8	-56.4	-55.3		-41.6	-41.25	0.4
	HT/VHT20 Beam Forming, M8 to M15	3	7	-53.4	-51.9	-54.2		-41.3	-41.25	0.0
	HT/VHT20 Beam Forming, M16 to M23	3	5	-52.4	-51.0	-50.7		-41.5	-41.25	0.3
	HT/VHT20 Beam Forming, M0 to M7	4	11	-58.9	-57.3	-59.6	-61.2	-42.0	-41.25	0.8
	HT/VHT20 Beam Forming, M8 to M15	4	8	-57.8	-56.4	-55.3	-60.3	-43.1	-41.25	1.8
	HT/VHT20 Beam Forming, M16 to M23	4	6	-53.4	-51.9	-54.2	-55.5	-41.5	-41.25	0.3
	HT/VHT20 STBC, M0 to M7	2	5	-51.8	-48.2			-41.6	-41.25	0.4
	HT/VHT20 STBC, M0 to M7	3	5	-52.4	-51.0	-50.7		-41.5	-41.25	0.3
	HT/VHT20 STBC, M0 to M7	4	5	-53.0	-51.5	-53.9	-55.2	-42.2	-41.25	0.9
	Non HT40, 6 to 54 Mbps	1	5	-53.7				-48.7	-41.35	7.4
	Non HT40, 6 to 54 Mbps	2	5	-54.2	-52.7			-45.4	-41.35	4.0
	Non HT40, 6 to 54 Mbps	3	5	-54.2	-52.7	-55.0		-44.1	-41.35	2.7
5510	Non HT40, 6 to 54 Mbps	4	5	-59.0	-57.4	-55.3	-60.9	-46.6	-41.35	5.3
2 2	HT/VHT40, M0 to M7	1	5	-52.9				-47.9	-41.35	6.6
	HT/VHT40, M0 to M7	2	5	-53.7	-52.1			-44.8	-41.35	3.5
	HT/VHT40, M8 to M15	2	5	-53.7	-52.1			-44.8	-41.35	3.5

Page No: 37 of 86

	HT/VHT40, M0 to M7	3	5	-53.9	-52.5	-54.3		-43.7	-41.35	2.4
	HT/VHT40, M8 to M15	3	5	-53.9	-52.5	-54.3		-43.7	-41.35	2.4
	HT/VHT40, M16 to M23	3	5	-53.9	-52.5	-54.3		-43.7	-41.35	2.4
	HT/VHT40, M0 to M7	4	5	-54.3	-52.8	-54.8	-56.0	-43.3	-41.35	2.0
	HT/VHT40, M8 to M15	4	5	-54.3	-52.8	-54.8	-56.0	-43.3	-41.35	2.0
	HT/VHT40, M16 to M23	4	5	-54.3	-52.8	-54.8	-56.0	-43.3	-41.35	2.0
	HT/VHT40 Beam Forming, M0 to M7	2	8	-54.3	-52.8			-42.5	-41.35	1.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	-53.7	-52.1			-44.8	-41.35	3.5
	HT/VHT40 Beam Forming, M0 to M7	3	10	-59.1	-57.6	-59.7		-43.9	-41.35	2.6
	HT/VHT40 Beam Forming, M8 to M15	3	7	-58.2	-56.8	-55.0		-44.7	-41.35	3.3
	HT/VHT40 Beam Forming, M16 to M23	3	5	-53.9	-52.5	-54.3		-43.7	-41.35	2.4
	HT/VHT40 Beam Forming, M0 to M7	4	11	-60.0	-58.5	-60.7	-61.9	-43.1	-41.35	1.7
	HT/VHT40 Beam Forming, M8 to M15	4	8	-59.1	-57.6	-59.7	-61.2	-45.2	-41.35	3.8
	HT/VHT40 Beam Forming, M16 to M23	4	6	-58.2	-56.8	-55.0	-56.0	-44.3	-41.35	3.0
	HT/VHT40 STBC, M0 to M7	2	5	-53.7	-52.1			-44.8	-41.35	3.5
	HT/VHT40 STBC, M0 to M7	3	5	-53.9	-52.5	-54.3		-43.7	-41.35	2.4
	HT/VHT40 STBC, M0 to M7	4	5	-54.3	-52.8	-54.8	-56.0	-43.3	-41.35	2.0
	Non HT80, 6 to 54 Mbps	1	5	-49.9				-44.9	-41.45	3.5
	Non HT80, 6 to 54 Mbps	2	5	-54.5	-48.8			-42.8	-41.45	1.3
	Non HT80, 6 to 54 Mbps	3	5	-54.7	-53.2	-51.1		-43.0	-41.45	1.5
	Non HT80, 6 to 54 Mbps	4	5	-54.7	-53.2	-51.1	-56.2	-42.4	-41.45	0.9
	VHT80, M0 to M9 1ss	1	5	-53.3				-48.3	-41.45	6.8
	VHT80, M0 to M9 1ss	2	5	-53.7	-51.9			-44.7	-41.45	3.2
	VHT80, M0 to M9 2ss	2	5	-53.7	-51.9			-44.7	-41.45	3.2
	VHT80, M0 to M9 1ss	3	5	-54.0	-52.2	-54.1		-43.6	-41.45	2.1
	VHT80, M0 to M9 2ss	3	5	-54.0	-52.2	-54.1		-43.6	-41.45	2.1
	VHT80, M0 to M9 3ss	3	5	-54.0	-52.2	-54.1		-43.6	-41.45	2.1
	VHT80, M0 to M9 1ss	4	5	-54.2	-52.6	-54.4	-55.7	-43.1	-41.45	1.6
530	VHT80, M0 to M9 2ss	4	5	-54.2	-52.6	-54.4	-55.7	-43.1	-41.45	1.6
55	VHT80, M0 to M9 3ss	4	5	-54.2	-52.6	-54.4	-55.7	-43.1	-41.45	1.6
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-54.2	-52.6			-42.3	-41.45	0.9
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-53.7	-51.9			-44.7	-41.45	3.2
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-59.3	-57.3	-55.2		-42.2	-41.45	0.7
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-54.2	-52.6	-54.4		-41.9	-41.45	0.4
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-54.0	-52.2	-54.1		-43.6	-41.45	2.1
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-59.6	-57.8	-59.7	-61.2	-42.4	-41.45	0.9
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-58.7	-56.9	-55.0	-60.6	-43.3	-41.45	1.8
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-58.2	-52.9	-54.8	-55.9	-43.0	-41.45	1.6
	VHT80 STBC, M0 to M9 1ss	2	5	-53.7	-51.9			-44.7	-41.45	3.2
	VHT80 STBC, M0 to M9 1ss	3	5	-54.0	-52.2	-54.1		-43.6	-41.45	2.1
	VHT80 STBC, M0 to M9 1ss	4	5	-54.2	-52.6	-54.4	-55.7	-43.1	-41.45	1.6

Page No: 38 of 86

cisco

	Non HT40, 6 to 54 Mbps	1	5	-46.9				-41.9	-41.35	0.5
	Non HT40, 6 to 54 Mbps	2	5	-53.7	-48.6			-42.4	-41.35	1.1
	Non HT40, 6 to 54 Mbps	3	5	-54.0	-52.4	-50.8		-42.4	-41.35	1.1
	Non HT40, 6 to 54 Mbps	4	5	-54.0	-52.4	-50.8	-53.3	-41.4	-41.35	0.1
	HT/VHT40, M0 to M7	1	5	-49.4				-44.4	-41.35	3.1
	HT/VHT40, M0 to M7	2	5	-52.7	-48.3			-42.0	-41.35	0.6
	HT/VHT40, M8 to M15	2	5	-52.7	-48.3			-42.0	-41.35	0.6
	HT/VHT40, M0 to M7	3	5	-53.4	-51.6	-50.3		-41.8	-41.35	0.5
	HT/VHT40, M8 to M15	3	5	-53.4	-51.6	-50.3		-41.8	-41.35	0.5
	HT/VHT40, M16 to M23	3	5	-53.4	-51.6	-50.3		-41.8	-41.35	0.5
	HT/VHT40, M0 to M7	4	5	-53.8	-52.1	-50.6	-54.3	-41.4	-41.35	0.1
5550	HT/VHT40, M8 to M15	4	5	-53.8	-52.1	-50.6	-54.3	-41.4	-41.35	0.1
55	HT/VHT40, M16 to M23	4	5	-53.8	-52.1	-50.6	-54.3	-41.4	-41.35	0.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	-53.4	-51.6			-41.4	-41.35	0.0
	HT/VHT40 Beam Forming, M8 to M15	2	5	-52.7	-48.3			-42.0	-41.35	0.6
	HT/VHT40 Beam Forming, M0 to M7	3	10	-59.6	-57.9	-59.6		-44.2	-41.35	2.8
	HT/VHT40 Beam Forming, M8 to M15	3	7	-54.2	-52.4	-53.2		-41.4	-41.35	0.1
	HT/VHT40 Beam Forming, M16 to M23	3	5	-53.4	-51.6	-50.3		-41.8	-41.35	0.5
	HT/VHT40 Beam Forming, M0 to M7	4	11	-59.6	-57.9	-59.6	-61.2	-42.4	-41.35	1.0
	HT/VHT40 Beam Forming, M8 to M15	4	8	-58.6	-53.3	-55.1	-56.4	-41.4	-41.35	0.1
	HT/VHT40 Beam Forming, M16 to M23	4	6	-54.2	-52.4	-53.2	-55.6	-41.7	-41.35	0.3
	HT/VHT40 STBC, M0 to M7	2	5	-52.7	-48.3			-42.0	-41.35	0.6
	HT/VHT40 STBC, M0 to M7	3	5	-53.4	-51.6	-50.3		-41.8	-41.35	0.5
	HT/VHT40 STBC, M0 to M7	4	5	-53.8	-52.1	-50.6	-54.3	-41.4	-41.35	0.1
	Non HT20, 6 to 54 Mbps	1	5	-49.7				-44.7	-41.25	3.5
	Non HT20, 6 to 54 Mbps	2	5	-52.6	-48.7			-42.2	-41.25	1.0
	Non HT20, 6 to 54 Mbps	3	5	-53.9	-52.3	-51.1		-42.5	-41.25	1.3
	Non HT20, 6 to 54 Mbps	4	5	-55.1	-53.5	-55.2	-56.6	-43.9	-41.25	2.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-53.3	-51.8			-41.5	-41.25	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-59.4		-55.9			-41.25	1.4
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-59.7	-58.2	-59.6	-61.4	-42.6	-41.25	1.3
	HT/VHT20, M0 to M7	1	5	-49.7				-44.7	-41.25	3.5
5560	HT/VHT20, M0 to M7	2	5	-52.5	-48.6			-42.1	-41.25	0.9
5	HT/VHT20, M8 to M15	2	5	-52.5	-48.6			-42.1	-41.25	0.9
	HT/VHT20, M0 to M7	3	5	-53.8	-52.1	-51.2		-42.5	-41.25	1.2
	HT/VHT20, M8 to M15	3	5	-53.3	-51.6	-50.8		-42.0	-41.25	0.8
	HT/VHT20, M16 to M23	3	5	-53.3	-51.6	-50.8		-42.0	-41.25	0.8
	HT/VHT20, M0 to M7	4	5	-54.7	-53.0	-54.6	-56.3	-43.5	-41.25	2.2
	HT/VHT20, M8 to M15	4	5	-53.8	-52.1	-51.2	-52.6	-41.3	-41.25	0.1
	HT/VHT20, M16 to M23	4	5	-53.8	-52.1	-51.2	-52.6	-41.3	-41.25	0.1
	HT/VHT20 Beam Forming, M0 to M7	2	8	-53.3	-51.6	5		-41.4	-41.25	0.1
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Page No: 39 of 86

cisco

	HT/VHT20 Beam Forming, M8 to M15	2	5	-52.5	-48.6			-42.1	-41.25	0.9
	HT/VHT20 Beam Forming, M0 to M7	3	10	-59.3	-57.6	-55.9		-42.6	-41.25	1.4
	HT/VHT20 Beam Forming, M8 to M15	3	7	-54.2	-52.6	-52.8		-41.4	-41.25	0.1
	HT/VHT20 Beam Forming, M16 to M23	3	5	-53.3	-51.6	-50.8		-42.0	-41.25	0.8
	HT/VHT20 Beam Forming, M0 to M7	4	11	-59.8	-58.0	-59.5	-61.4	-42.5	-41.25	1.2
	HT/VHT20 Beam Forming, M8 to M15	4	8	-58.7	-53.7	-55.5	-60.5	-42.3	-41.25	1.1
	HT/VHT20 Beam Forming, M16 to M23	4	6	-54.2	-52.6	-52.8	-54.8	-41.5	-41.25	0.2
	HT/VHT20 STBC, M0 to M7	2	5	-52.5	-48.6			-42.1	-41.25	0.9
	HT/VHT20 STBC, M0 to M7	3	5	-53.3	-51.6	-50.8		-42.0	-41.25	0.8
	HT/VHT20 STBC, M0 to M7	4	5	-53.8	-52.1	-51.2	-52.6	-41.3	-41.25	0.1
	Non HT160, 6 to 54 Mbps	1	5	-50.1				-45.1	-41.45	3.6
	Non HT160, 6 to 54 Mbps	2	5	-50.5	-48.7			-41.5	-41.45	0.0
	Non HT160, 6 to 54 Mbps	3	5	-55.3	-53.6	-51.4		-43.4	-41.45	1.9
	Non HT160, 6 to 54 Mbps	4	5	-55.5	-53.7	-51.5	-57.0	-42.9	-41.45	1.5
	VHT160, M0 to M9 1ss	1	5	-52.6				-47.6	-41.45	6.2
	VHT160, M0 to M9 1ss	2	5	-52.6	-51.6			-44.1	-41.45	2.6
	VHT160, M0 to M9 2ss	2	5	-52.6	-51.6			-44.1	-41.45	2.6
	VHT160, M0 to M9 1ss	3	5	-53.8	-52.0	-52.9		-43.1	-41.45	1.6
	VHT160, M0 to M9 2ss	3	5	-53.8	-52.0	-52.9		-43.1	-41.45	1.6
	VHT160, M0 to M9 3ss	3	5	-53.8	-52.0	-52.9		-43.1	-41.45	1.6
	VHT160, M0 to M9 1ss	4	5	-53.8	-52.0	-52.9	-55.3	-42.3	-41.45	0.9
5570	VHT160, M0 to M9 2ss	4	5	-53.8	-52.0	-52.9	-55.3	-42.3	-41.45	0.9
55	VHT160, M0 to M9 3ss	4	5	-53.8	-52.0	-52.9	-55.3	-42.3	-41.45	0.9
	VHT160 Beam Forming, M0 to M9 1ss	2	8	-53.8	-52.0			-41.8	-41.45	0.3
	VHT160 Beam Forming, M0 to M9 2ss	2	5	-52.6	-51.6			-44.1	-41.45	2.6
	VHT160 Beam Forming, M0 to M9 1ss	3	10	-58.7	-57.0	-55.0		-41.9	-41.45	0.4
	VHT160 Beam Forming, M0 to M9 2ss	3	7	-54.4	-52.6	-53.9		-41.8	-41.45	0.3
	VHT160 Beam Forming, M0 to M9 3ss	3	5	-53.8	-52.0	-52.9		-43.1	-41.45	1.6
	VHT160 Beam Forming, M0 to M9 1ss	4	11	-59.7	-58.2	-59.5	-61.3	-42.5	-41.45	1.1
	VHT160 Beam Forming, M0 to M9 2ss	4	8	-58.7	-57.0	-55.0	-60.4	-43.3	-41.45	1.8
	VHT160 Beam Forming, M0 to M9 3ss	4	6	-54.4	-52.6	-53.9	-55.8	-42.0	-41.45	0.6
	VHT160 STBC, M0 to M9 1ss	2	5	-52.6	-51.6			-44.1	-41.45	2.6
	VHT160 STBC, M0 to M9 1ss	3	5	-53.8	-52.0	-52.9		-43.1	-41.45	1.6
	VHT160 STBC, M0 to M9 1ss	4	5	-53.8	-52.0	-52.9	-55.3	-42.3	-41.45	0.9
	Non HT80, 6 to 54 Mbps	1	5	-50.5				-45.5	-41.45	4.1
	Non HT80, 6 to 54 Mbps	2	5	-50.9	-49.4			-42.1	-41.45	0.6
0	Non HT80, 6 to 54 Mbps	3	5	-51.6	-50.2	-52.1		-41.5	-41.45	0.0
5610	Non HT80, 6 to 54 Mbps	4	5	-55.6	-50.3	-52.3	-57.3	-42.0	-41.45	0.6
ŝ	VHT80, M0 to M9 1ss	1	5	-49.9				-44.9	-41.45	3.5
	VHT80, M0 to M9 1ss	2	5	-52.6	-49.0			-42.4	-41.45	1.0
	VHT80, M0 to M9 2ss	2	5	-52.6	-49.0			-42.4	-41.45	1.0

Page No: 40 of 86

	VHT80, M0 to M9 1ss	3	5	-53.4	-51.9	-50.7		-42.1	-41.45	0.6
	VHT80, M0 to M9 2ss	3	5	-53.4	-51.9	-50.7		-42.1	-41.45	0.6
	VHT80, M0 to M9 3ss	3	5	-53.4	-51.9	-50.7		-42.1	-41.45	0.6
	VHT80, M0 to M9 1ss	4	5	-53.4	-51.9	-50.7	-55.2	-41.5	-41.45	0.0
	VHT80, M0 to M9 2ss	4	5	-53.4	-51.9	-50.7	-55.2	-41.5	-41.45	0.0
	VHT80, M0 to M9 3ss	4	5	-53.4	-51.9	-50.7	-55.2	-41.5	-41.45	0.0
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-53.4	-51.9			-41.6	-41.45	0.1
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-52.6	-49.0			-42.4	-41.45	1.0
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-59.1	-57.5	-55.9		-42.5	-41.45	1.1
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-54.3	-52.8	-53.5		-41.7	-41.45	0.3
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-53.4	-51.9	-50.7		-42.1	-41.45	0.6
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-59.7	-58.2	-59.3	-61.8	-42.5	-41.45	1.1
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-58.3	-54.1	-55.5	-60.5	-42.4	-41.45	1.0
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-54.3	-52.8	-53.5	-56.2	-42.0	-41.45	0.6
	VHT80 STBC, M0 to M9 1ss	2	5	-52.6	-49.0			-42.4	-41.45	1.0
	VHT80 STBC, M0 to M9 1ss	3	5	-53.4	-51.9	-50.7		-42.1	-41.45	0.6
	VHT80 STBC, M0 to M9 1ss	4	5	-53.4	-51.9	-50.7	-55.2	-41.5	-41.45	0.0
	Non HT80, 6 to 54 Mbps	1	5	-46.7				-41.7	-41.45	0.3
	Non HT80, 6 to 54 Mbps	2	5	-52.0	-50.6			-43.2	-41.45	1.8
	Non HT80, 6 to 54 Mbps	3	5	-52.8	-51.5	-52.6		-42.5	-41.45	1.0
	Non HT80, 6 to 54 Mbps	4	5	-52.8	-51.5	-52.6	-53.2	-41.5	-41.45	0.0
	VHT80, M0 to M9 1ss	1	5	-50.0				-45.0	-41.45	3.6
	VHT80, M0 to M9 1ss	2	5	-50.6	-49.2			-41.8	-41.45	0.4
	VHT80, M0 to M9 2ss	2	5	-50.6	-49.2			-41.8	-41.45	0.4
	VHT80, M0 to M9 1ss	3	5	-52.6	-51.2	-50.6		-41.6	-41.45	0.2
	VHT80, M0 to M9 2ss	3	5	-52.6	-51.2	-50.6		-41.6	-41.45	0.2
	VHT80, M0 to M9 3ss	3	5	-52.6	-51.2	-50.6		-41.6	-41.45	0.2
	VHT80, M0 to M9 1ss	4	5	-53.2	-52.1	-51.3	-55.8	-41.8	-41.45	0.3
5690	VHT80, M0 to M9 2ss	4	5	-53.2	-52.1	-51.3	-55.8	-41.8	-41.45	0.3
56	VHT80, M0 to M9 3ss	4	5	-53.2	-52.1	-51.3	-55.8	-41.8	-41.45	0.3
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-53.2	-52.1			-41.6	-41.45	0.2
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-50.6	-49.2			-41.8	-41.45	0.4
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-58.3	-57.1	-55.6		-42.1	-41.45	0.6
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-54.6	-53.4	-53.2		-41.9	-41.45	0.5
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-52.6	-51.2	-50.6		-41.6	-41.45	0.2
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-59.8	-58.3	-58.8	-62.5	-42.6	-41.45	1.1
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-57.7	-54.4	-55.1	-60.5	-42.3	-41.45	0.9
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-54.6	-53.4	-53.2	-56.6	-42.2	-41.45	0.8
	VHT80 STBC, M0 to M9 1ss	2	5	-50.6	-49.2			-41.8	-41.45	0.4
	VHT80 STBC, M0 to M9 1ss	3	5	-52.6	-51.2	-50.6		-41.6	-41.45	0.2
	VHT80 STBC, M0 to M9 1ss	4	5	-53.2	-52.1	-51.3	-55.8	-41.8	-41.45	0.3

Page No: 41 of 86

	Non HT40, 6 to 54 Mbps	1	5	-46.5				-41.5	-41.35	0.1
	Non HT40, 6 to 54 Mbps	2	5	-51.5	-50.2			-42.8	-41.35	1.4
	Non HT40, 6 to 54 Mbps	3	5	-53.3	-51.0	-51.1		-41.9	-41.35	0.6
	Non HT40, 6 to 54 Mbps	4	5	-54.4	-52.9	-52.3	-54.4	-42.4	-41.35	1.0
	HT/VHT40, M0 to M7	1	5	-48.0				-43.0	-41.35	1.7
	HT/VHT40, M0 to M7	2	5	-50.5	-49.1			-41.7	-41.35	0.4
	HT/VHT40, M8 to M15	2	5	-50.5	-49.1			-41.7	-41.35	0.4
	HT/VHT40, M0 to M7	3	5	-52.6	-51.2	-50.2		-41.5	-41.35	0.1
	HT/VHT40, M8 to M15	3	5	-52.6	-51.2	-50.2		-41.5	-41.35	0.1
	HT/VHT40, M16 to M23	3	5	-52.6	-51.2	-50.2		-41.5	-41.35	0.1
	HT/VHT40, M0 to M7	4	5	-53.9	-52.5	-51.8	-55.0	-42.1	-41.35	0.8
5710	HT/VHT40, M8 to M15	4	5	-53.9	-52.5	-51.8	-55.0	-42.1	-41.35	0.8
57	HT/VHT40, M16 to M23	4	5	-53.9	-52.5	-51.8	-55.0	-42.1	-41.35	0.8
	HT/VHT40 Beam Forming, M0 to M7	2	8	-53.3	-51.8			-41.5	-41.35	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	-50.5	-49.1			-41.7	-41.35	0.4
	HT/VHT40 Beam Forming, M0 to M7	3	10	-59.1	-57.6	-56.0		-42.6	-41.35	1.3
	HT/VHT40 Beam Forming, M8 to M15	3	7	-55.3	-53.7	-53.6		-42.4	-41.35	1.0
	HT/VHT40 Beam Forming, M16 to M23	3	5	-52.6	-51.2	-50.2		-41.5	-41.35	0.1
	HT/VHT40 Beam Forming, M0 to M7	4	11	-59.8	-58.3	-58.4	-62.5	-42.4	-41.35	1.1
	HT/VHT40 Beam Forming, M8 to M15	4	8	-57.6	-54.3	-54.5	-60.4	-42.0	-41.35	0.7
	HT/VHT40 Beam Forming, M16 to M23	4	6	-55.3	-53.7	-53.6	-57.1	-42.7	-41.35	1.3
	HT/VHT40 STBC, M0 to M7	2	5	-50.5	-49.1			-41.7	-41.35	0.4
	HT/VHT40 STBC, M0 to M7	3	5	-52.6	-51.2	-50.2		-41.5	-41.35	0.1
	HT/VHT40 STBC, M0 to M7	4	5	-53.9	-52.5	-51.8	-55.0	-42.1	-41.35	0.8
	Non HT20, 6 to 54 Mbps	1	5	-51.7				-46.7	-41.25	5.5
	Non HT20, 6 to 54 Mbps	2	5	-54.1	-52.7			-45.3	-41.25	4.1
	Non HT20, 6 to 54 Mbps	3	5	-62.3	-61.4	-60.7		-51.6	-41.25	10.4
	Non HT20, 6 to 54 Mbps	4	5	-64.3	-62.9	-62.6	-64.8	-52.5	-41.25	11.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-54.1	-52.7			-42.3	-41.25	1.1
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-62.3	-61.4	-60.7		-46.6	-41.25	5.4
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-64.3	-62.9	-62.6	-64.8	-46.5	-41.25	5.3
	HT/VHT20, M0 to M7	1	5	-50.6				-45.6	-41.25	4.4
5720	HT/VHT20, M0 to M7	2	5	-53.8	-52.3			-45.0	-41.25	3.7
ц)	HT/VHT20, M8 to M15	2	5	-50.6	-49.8			-42.2	-41.25	0.9
	HT/VHT20, M0 to M7	3	5	-62.1	-61.2	-60.5		-51.4	-41.25	10.2
	HT/VHT20, M8 to M15	3	5	-54.3	-55.4	-56.2		-45.5	-41.25	4.2
	HT/VHT20, M16 to M23	3	5	-53.8	-52.3	-54.0		-43.5	-41.25	2.3
	HT/VHT20, M0 to M7	4	5	-64.2	-62.8	-62.3	-64.7	-52.4	-41.25	11.1
	HT/VHT20, M8 to M15	4	5	-60.2	-60.1	-59.8	-60.9	-49.2	-41.25	8.0
	HT/VHT20, M16 to M23	4	5	-54.3	-55.4	-56.2	-57.8	-44.7	-41.25	3.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	-53.8	-52.3			-42.0	-41.25	0.7

Page No: 42 of 86

HT/VHT20 Beam Forming, M8 to M15	2	5	-50.6	-49.8			-42.2	-41.25	0.9
HT/VHT20 Beam Forming, M0 to M7	3	10	-62.1	-61.2	-60.5		-46.4	-41.25	5.2
HT/VHT20 Beam Forming, M8 to M15	3	7	-54.3	-55.4	-56.2		-43.5	-41.25	2.2
HT/VHT20 Beam Forming, M16 to M23	3	5	-53.8	-52.3	-54.0		-43.5	-41.25	2.3
HT/VHT20 Beam Forming, M0 to M7	4	11	-64.2	-62.8	-62.3	-64.7	-46.4	-41.25	5.1
HT/VHT20 Beam Forming, M8 to M15	4	8	-60.2	-60.1	-59.8	-60.9	-46.2	-41.25	5.0
HT/VHT20 Beam Forming, M16 to M23	4	6	-54.3	-55.4	-56.2	-57.8	-43.7	-41.25	2.5
HT/VHT20 STBC, M0 to M7	2	5	-50.6	-49.8			-42.2	-41.25	0.9
HT/VHT20 STBC, M0 to M7	3	5	-54.3	-55.4	-56.2		-45.5	-41.25	4.2
HT/VHT20 STBC, M0 to M7	4	5	-60.2	-60.1	-59.8	-60.9	-49.2	-41.25	8.0

Page No: 43 of 86

### Conducted Spurs Average, 5500 MHz, Non HT20 Beam Forming, 6 to 54 Mbps





Antenna B

Page No: 44 of 86

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Antenna A

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Tx 3 Spur Power (dBm)	Tx 4 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	-37.9				-32.9	-21.25	11.7
	Non HT20, 6 to 54 Mbps	2	5	-40.1	-38.0			-30.9	-21.25	9.7
	Non HT20, 6 to 54 Mbps	3	5	-41.7	-42.0	-41.3		-31.9	-21.25	10.6
	Non HT20, 6 to 54 Mbps	4	5	-42.3	-41.5	-42.1	-43.1	-31.2	-21.25	9.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-41.7	-42.0			-30.8	-21.25	9.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-46.0	-42.5	-47.2		-30.0	-21.25	8.7
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-47.4	-47.4	-47.6	-48.8	-30.7	-21.25	9.5
	HT/VHT20, M0 to M7	1	5	-36.8				-31.8	-21.25	10.6
	HT/VHT20, M0 to M7	2	5	-39.9	-38.8			-31.3	-21.25	10.1
	HT/VHT20, M8 to M15	2	5	-39.9	-38.8			-31.3	-21.25	10.1
	HT/VHT20, M0 to M7	3	5	-41.3	-41.5	-41.8		-31.8	-21.25	10.5
	HT/VHT20, M8 to M15	3	5	-40.7	-41.7	-41.9		-31.6	-21.25	10.4
	HT/VHT20, M16 to M23	3	5	-40.7	-41.7	-41.9		-31.6	-21.25	10.4
5500	HT/VHT20, M0 to M7	4	5	-41.0	-41.6	-42.2	-42.9	-30.8	-21.25	9.6
2 2	HT/VHT20, M8 to M15	4	5	-41.3	-41.5	-41.8	-40.3	-30.2	-21.25	8.9
	HT/VHT20, M16 to M23	4	5	-41.3	-41.5	-41.8	-40.3	-30.2	-21.25	8.9
	HT/VHT20 Beam Forming, M0 to M7	2	8	-41.7	-40.7			-30.2	-21.25	8.9
	HT/VHT20 Beam Forming, M8 to M15	2	5	-39.9	-38.8			-31.3	-21.25	10.1
	HT/VHT20 Beam Forming, M0 to M7	3	10	-46.4	-43.3	-46.7		-30.4	-21.25	9.2
	HT/VHT20 Beam Forming, M8 to M15	3	7	-41.7	-40.7	-41.9		-29.6	-21.25	8.4
	HT/VHT20 Beam Forming, M16 to M23	3	5	-40.7	-41.7	-41.9		-31.6	-21.25	10.4
	HT/VHT20 Beam Forming, M0 to M7	4	11	-47.5	-47.4	-47.3	-48.4	-30.6	-21.25	9.4
	HT/VHT20 Beam Forming, M8 to M15	4	8	-46.4	-43.3	-46.7	-44.3	-30.9	-21.25	9.7
	HT/VHT20 Beam Forming, M16 to M23	4	6	-41.7		-41.9	-41.7		-21.25	8.2
	HT/VHT20 STBC, M0 to M7	2	5	-39.9	-38.8			-31.3	-21.25	10.1
	HT/VHT20 STBC, M0 to M7	3	5	-40.7	-41.7	-41.9		-31.6	-21.25	10.4
	HT/VHT20 STBC, M0 to M7	4	5	-41.3	-41.5	-41.8	-40.3	-30.2	-21.25	8.9
	· · · · ·									
	Non HT40, 6 to 54 Mbps	1	5	-41.5				-36.5	-21.35	15.2
	Non HT40, 6 to 54 Mbps	2	5	-41.8	-42.4			-34.1	-21.35	12.7
	Non HT40, 6 to 54 Mbps	3	5	-41.8	-42.4	-42.3		-32.4	-21.35	11.0
10	· · · · · · · · · · · · · · · · · · ·	4	5	-46.7	-43.0	-42.9	-44.8	-33.1	-21.35	11.7
5510	HT/VHT40, M0 to M7	1	5	-40.9				-35.9	-21.35	14.6
	HT/VHT40, M0 to M7	2	5	-41.6	-42.1			-33.8	-21.35	12.5
	HT/VHT40, M8 to M15	2	5	-41.6	-42.1			-33.8	-21.35	12.5
	HT/VHT40, M0 to M7	3	5	-42.1	-41.6	-41.8		-32.1	-21.35	10.7
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Page No: 45 of 86

HT/VHT40, M8 to M15         3         5         -42.1         41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40, M16 to M23         3         5         -42.1         41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40, M0 to M7         4         5         -46.2         -42.9         -41.5         +3.4         -32.2         -21.35         10.8           HT/VHT40, M15 to M23         4         5         -46.2         -42.9         -41.5         +3.4         -32.2         -21.35         10.8           HT/VHT40, M15 to M23         4         5         -46.2         -42.9         -33.2         -21.35         10.8           HT/VHT40 Beam Forming, M0 to M7         2         8         -46.2         -42.9         -33.2         -21.35         10.7           HT/VHT40 Beam Forming, M0 to M7         3         10         -47.0         47.8         48.6         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -49.6         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         <											
HT/VHT40, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.8           HT/VHT40, M6 to M15         4         5         -46.2         42.9         -41.5         -43.4         -32.2         -21.35         10.8           HT/VHT40 Beam Forming, M0 to M7         2         8         -46.2         -42.9         -33.2         -21.35         11.9           HT/VHT40 Beam Forming, M0 to M7         3         10         -47.0         -47.8         -46.8         -32.2         -21.35         11.1           HT/VHT40 Beam Forming, M0 to M7         3         10         -47.0         -47.8         -46.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M0 to M7         4         11         -51.7         -48.6         -49.6         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M6 to M23         4         6         -47.1         -42.1         -46.8         -49.6         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M6 to M23         4         6         -47.1         -42.1         -41.6         -48.6         -49.6         -22.4         -21.35         10.7		HT/VHT40, M8 to M15	3	5	-42.1	-41.6	-41.8		-32.1	-21.35	10.7
HT/VHT40, M8 to M15         4         5         46.2         42.9         41.5         43.4         32.2         -21.35         10.8           HT/VHT40, M16 to M23         4         5         -46.2         42.9         -41.5         43.4         32.2         -21.35         10.8           HT/VHT40 Beam Forming, M0 to M7         2         8         -46.2         42.9         -33.8         -21.35         11.5           HT/VHT40 Beam Forming, M0 to M7         3         10         -47.0         47.8         -46.8         -32.4         -32.0         21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         12.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.6         -44.5         -43.2         -21.35         12.1		HT/VHT40, M16 to M23	3	5	-42.1	-41.6	-41.8		-32.1	-21.35	10.7
HT/VHT40, M16 to M23         4         5         462         -42.9         -41.5         -43.4         -32.2         -21.35         11.9           HT/VHT40 Beam Forming, M0 to M7         2         8         -46.2         -42.9         -33.8         -21.35         11.9           HT/VHT40 Beam Forming, M0 to M7         3         10         -47.0         -47.8         -46.8         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         47.1         -42.2         -43.8         -32.1         21.35         12.1           HT/VHT40 SEG, M0 to M7         2         5         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -38.6		HT/VHT40, M0 to M7	4	5	-46.2	-42.9	-41.5	-43.4	-32.2	-21.35	10.8
HT/HT40 Beam Forming, M0 to M7         2         8         -46.2         -42.9         -33.2         -21.35         11.9           HT/HT40 Beam Forming, M8 to M15         2         5         41.6         -42.1         -33.8         -21.35         12.5           HT/VHT40 Beam Forming, M8 to M15         3         10         47.0         -47.8         -46.8         -32.4         -21.35         10.7           HT/VHT40 Beam Forming, M8 to M15         3         7         -47.1         -43.8         -42.4         -32.0         -21.35         10.7           HT/VHT40 Beam Forming, M8 to M15         4         8         -70.4         -7.8         -6.6         44.6         -48.5         -33.5         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         10.7           HT/VHT40 SEBC, M0 to M7         2         5         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5 <td></td> <td>HT/VHT40, M8 to M15</td> <td>4</td> <td>5</td> <td>-46.2</td> <td>-42.9</td> <td>-41.5</td> <td>-43.4</td> <td>-32.2</td> <td>-21.35</td> <td>10.8</td>		HT/VHT40, M8 to M15	4	5	-46.2	-42.9	-41.5	-43.4	-32.2	-21.35	10.8
HT/VHT40 Beam Forming, M8 to M15         2         5         41.6         42.1         33.8         21.35         12.5           HT/VHT40 Beam Forming, M8 to M15         3         7         47.1         -43.2         42.4         -32.0         21.35         10.1           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         11.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.6         -48.6         -48.6         -32.0         -21.35         12.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.8         -43.2         -32.0         -21.35         10.7           HT/VHT40 SEBC, M0 to M7         3         5         -42.1         -41.8         -32.0         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -42.7         -38.6         -37.7         -32.4         -21.45         10.7           Non HT80, 6 to 54 Mbps         1         5         -38.4         -42.5<		HT/VHT40, M16 to M23	4	5	-46.2	-42.9	-41.5	-43.4	-32.2	-21.35	10.8
HT/HT40 Beam Forming, M0 to M7         3         10         -47.0         -47.8         -46.8         -32.4         -21.35         11.1           HT/HT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.0         -21.35         10.7           HT/HT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/HT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         12.1           HT/HT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         10.7           HT/HT40 STBC, M0 to M7         2         5         -46.2         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/HT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.3         -21.45         10.7           HT/HT40 STBC, M0 to M7         4         5         -36.2         -21.45         14.0         -33.4         -21.45         10.9           No		HT/VHT40 Beam Forming, M0 to M7	2	8	-46.2	-42.9			-33.2	-21.35	11.9
HT/HT40 Beam Forming, M8 to M15         3         7         47.1         43.2         42.4         -32.0         -21.35         10.7           HT/HT40 Beam Forming, M16 to M23         3         5         42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/HT40 Beam Forming, M16 to M23         4         11         -51.7         -48.6         -48.6         -38.6         -32.4         -21.35         10.7           HT/HT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         10.7           HT/HT40 STBC, M0 to M7         2         5         -41.6         -42.1         -41.8         -32.1         21.35         10.7           HT/HT40 STBC, M0 to M7         3         5         -42.1         41.6         -41.8         -32.1         21.35         10.7           HT/HT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         21.35         10.8           Non HT80, 6 to 54 Mbps         1         5         -48.2         -38.9         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         1         5		HT/VHT40 Beam Forming, M8 to M15	2	5	-41.6	-42.1			-33.8	-21.35	12.5
HT/HT40 Beam Forming, M16 to M23         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 Beam Forming, M0 to M7         4         11         -51.7         -48.6         -48.6         -32.4         -21.35         11.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -47.8         -46.8         -48.5         -33.5         -21.35         10.7           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -42.2         -42.4         -48.8         -32.0         -21.35         10.7           HT/VHT40 STBC, M0 to M7         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -42.1         -41.6         -41.8         -32.4         -21.45         12.0           Non HT80, 6 to 54 Mbps         1         5         -38.9         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         3         5         <		HT/VHT40 Beam Forming, M0 to M7	3	10	-47.0	-47.8	-46.8		-32.4	-21.35	11.1
HT/H140 Beam Forming, M0 to M7         4         11         -51.7         -48.6         -48.6         -48.6         -21.35         11.1           HT/VHT40 Beam Forming, M8 to M15         4         8         -47.0         -47.8         -46.8         -48.5         -33.5         -21.35         12.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         10.7           HT/VHT40 STBC, M0 to M7         2         5         -41.6         -42.1         -43.4         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         3         5         -42.1         -41.6         -41.8         -32.1         -21.45         10.9           Non HT80, 6 to 54 Mbps         1         5         -38.4         -         -33.4         -21.45         10.9           Non HT80, 6 to 54 Mbps         1         5         -42.7         -38.6         -37.7         -40.4         28.4         -21.45         10.9           Non HT80, 6 to 54 Mbps         1         5         -41.2         -         -33.8         -21.45         14.8           VHT80, M0 to M9 1ss         1         5         -41.2 <td< td=""><td></td><td>HT/VHT40 Beam Forming, M8 to M15</td><td>3</td><td>7</td><td>-47.1</td><td>-43.2</td><td>-42.4</td><td></td><td>-32.0</td><td>-21.35</td><td>10.7</td></td<>		HT/VHT40 Beam Forming, M8 to M15	3	7	-47.1	-43.2	-42.4		-32.0	-21.35	10.7
HT/VHT40 Beam Forming, M8 to M15         4         8         -47.0         -47.8         -46.8         -48.5         -33.5         -21.35         12.1           HT/VHT40 Beam Forming, M16 to M23         4         6         -47.1         -43.2         -42.4         -44.9         -32.0         -21.35         10.7           HT/VHT40 STBC, M0 to M7         2         5         -41.6         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         42.9         -41.5         -43.4         -32.2         -21.35         10.8           Non HT80, 6 to 54 Mbps         1         5         -38.4         -         -33.4         -21.45         10.9           Non HT80, 6 to 54 Mbps         1         5         -42.7         -38.6         -37.7         -29.4         -21.45         10.8           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         10.9           Non HT80, 6 to 54 Mbps		HT/VHT40 Beam Forming, M16 to M23	3	5	-42.1	-41.6	-41.8		-32.1	-21.35	10.7
HT/WHT40 Beam Forming, M16 to M23       4       6       -47.1       -43.2       -42.4       -44.9       -32.0       -21.35       10.7         HT/WHT40 STBC, M0 to M7       2       5       -41.6       -42.1       -33.8       -21.35       12.5         HT/WHT40 STBC, M0 to M7       3       5       -42.1       -41.6       -41.8       -32.1       -21.35       10.7         HT/WHT40 STBC, M0 to M7       4       5       -46.2       -42.9       -41.5       -43.4       -32.2       -21.35       10.8         Non HT80, 6 to 54 Mbps       1       5       -38.4       -33.4       -21.45       12.0         Non HT80, 6 to 54 Mbps       2       5       -42.7       -38.6       -37.7       -29.4       -21.45       8.0         Non HT80, 6 to 54 Mbps       1       5       -41.2       -33.8       -37.7       -29.4       -21.45       8.0         Non HT80, 6 to 54 Mbps       1       5       -41.2       -33.8       -21.45       12.4         VHT80, M0 to M9 1ss       1       5       -41.2       -33.8       -21.45       12.4         VHT80, M0 to M9 2ss       2       5       -41.8       -41.9       -33.8       -21.45       11.5		HT/VHT40 Beam Forming, M0 to M7	4	11	-51.7	-48.6	-48.6	-49.6	-32.4	-21.35	11.1
HT/VHT40 STBC, M0 to M7         2         5         41.6         42.1         33.8         -21.35         12.5           HT/VHT40 STBC, M0 to M7         3         5         -42.1         -41.6         -41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.8           Non HT80, 6 to 54 Mbps         1         5         -38.4         -         -33.8         -21.45         12.0           Non HT80, 6 to 54 Mbps         2         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         12.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         12.0           VHT80, M0 to M9 1ss         1         5         -41.2         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45<		HT/VHT40 Beam Forming, M8 to M15	4	8	-47.0	-47.8	-46.8	-48.5	-33.5	-21.35	12.1
HT/VHT40 STBC, M0 to M7         3         5         42.1         41.6         41.8         -32.1         -21.35         10.7           HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.8           Non HT80, 6 to 54 Mbps         1         5         -38.4         -         -33.4         -21.45         10.9           Non HT80, 6 to 54 Mbps         2         5         -42.5         -38.9         -         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         3         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         1         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         10.9           VH780, M0 to M9 1ss         2         5         -41.8         -41.9         -         -33.8         -21.45         12.4           VH780, M0 to M9 1ss         2         5         -41.8         -41.9         -         -33.8         -21.45         11.5           VH780, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7		HT/VHT40 Beam Forming, M16 to M23	4	6	-47.1	-43.2	-42.4	-44.9	-32.0	-21.35	10.7
HT/VHT40 STBC, M0 to M7         4         5         -46.2         -42.9         -41.5         -43.4         -32.2         -21.35         10.8           Non HT80, 6 to 54 Mbps         1         5         -38.4         -         -33.4         -21.45         10.9           Non HT80, 6 to 54 Mbps         2         5         -42.5         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         7.0           VH780, M0 to M9 1ss         1         5         -41.2		HT/VHT40 STBC, M0 to M7	2	5	-41.6	-42.1			-33.8	-21.35	12.5
Non HT80, 6 to 54 Mbps         1         5         -38.4         -33.4         -21.45         12.0           Non HT80, 6 to 54 Mbps         2         5         -42.5         -38.9         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         3         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         1.48           VH780, M0 to M9 1ss         1         5         -41.8         -41.9         -33.8         -21.45         12.4           VH780, M0 to M9 1ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VH780, M0 to M9 1ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VH780, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VH780, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9		HT/VHT40 STBC, M0 to M7	3	5	-42.1	-41.6	-41.8		-32.1	-21.35	10.7
Non HT80, 6 to 54 Mbps         2         5         -42.5         -38.9         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         3         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         7.0           VHT80, M0 to M9 1ss         1         5         -41.2		HT/VHT40 STBC, M0 to M7	4	5	-46.2	-42.9	-41.5	-43.4	-32.2	-21.35	10.8
Non HT80, 6 to 54 Mbps         2         5         -42.5         -38.9         -32.3         -21.45         10.9           Non HT80, 6 to 54 Mbps         3         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         7.0           VHT80, M0 to M9 1ss         1         5         -41.2											
Non HT80, 6 to 54 Mbps         3         5         -42.7         -38.6         -37.7         -29.4         -21.45         8.0           Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         7.0           VHT80, M0 to M9 1ss         1         5         -41.2		Non HT80, 6 to 54 Mbps	1	5	-38.4				-33.4	-21.45	12.0
Non HT80, 6 to 54 Mbps         4         5         -42.7         -38.6         -37.7         -40.4         -28.4         -21.45         7.0           VHT80, M0 to M9 1ss         1         5         -41.2         -36.2         -21.45         14.8           VHT80, M0 to M9 1ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9		Non HT80, 6 to 54 Mbps	2	5	-42.5	-38.9			-32.3	-21.45	10.9
VHT80, M0 to M9 1ss         1         5         -41.2         -36.2         -21.45         14.8           VHT80, M0 to M9 1ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 1ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         11.5           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss		Non HT80, 6 to 54 Mbps	3	5	-42.7	-38.6	-37.7		-29.4	-21.45	8.0
VHT80, M0 to M9 1ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         10.9           VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2		Non HT80, 6 to 54 Mbps	4	5	-42.7	-38.6	-37.7	-40.4	-28.4	-21.45	7.0
VHT80, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         12.4           VHT80, M0 to M9 1ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.7         -32.9         -21.45         10.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -45.7         -42.7		VHT80, M0 to M9 1ss	1	5	-41.2				-36.2	-21.45	14.8
VHT80, M0 to M9 1ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         2         8         -45.7         -42.7         -32.9         -21.45         10.9           VHT80 Beam Forming, M0 to M9 1ss         3         10         -46.6 <td></td> <td>VHT80, M0 to M9 1ss</td> <td>2</td> <td>5</td> <td>-41.8</td> <td>-41.9</td> <td></td> <td></td> <td>-33.8</td> <td>-21.45</td> <td>12.4</td>		VHT80, M0 to M9 1ss	2	5	-41.8	-41.9			-33.8	-21.45	12.4
VHT80, M0 to M9 2ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         10.7           VHT80 Beam Forming, M0 to M9 2ss         3         7 </td <td></td> <td>VHT80, M0 to M9 2ss</td> <td>2</td> <td>5</td> <td>-41.8</td> <td>-41.9</td> <td></td> <td></td> <td>-33.8</td> <td>-21.45</td> <td>12.4</td>		VHT80, M0 to M9 2ss	2	5	-41.8	-41.9			-33.8	-21.45	12.4
VHT80, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         11.5           VHT80 Beam Forming, M0 to M9 1ss         2         8         -45.7         -42.7         -22.7         -42.4         -31.6         -21.45         10.7           VHT80 Beam Forming, M0 to M9 2ss         3         7         -45.7         -42.7         -42.4         -31.6         -21.45         10.1		VHT80, M0 to M9 1ss	3	5	-42.6	-42.8	-42.7		-32.9	-21.45	11.5
VHT80, M0 to M9 1ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 2ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         4         5         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80, M0 to M9 3ss         2         8         -45.7         -42.7         -42.4         -43.2         -32.3         -21.45         10.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -45.7         -42.7         -42.4         -43.2         -32.8         -21.45         10.1           VH780 Beam Forming, M0 to M9 2ss         2         5         -41.8         -41.9         -33.8         -21.45         10.1           VH780 Beam Forming, M0 to M9 3ss         3         5         -42.6         -42.8         -42.7         -32.9         -21.45         11.5           VH780 Beam Fo		VHT80, M0 to M9 2ss	3	5	-42.6	-42.8	-42.7		-32.9	-21.45	11.5
WHT80, M0 to M9 2ss45-45.7-42.7-42.4-43.2-32.3-21.4510.9VHT80, M0 to M9 3ss45-45.7-42.7-42.4-43.2-32.3-21.4510.9VHT80 Beam Forming, M0 to M9 1ss28-45.7-42.7-42.4-43.2-32.9-21.4511.5VHT80 Beam Forming, M0 to M9 2ss25-41.8-41.9-33.8-21.4512.4VHT80 Beam Forming, M0 to M9 2ss310-46.6-46.6-47.5-32.1-21.4510.7VHT80 Beam Forming, M0 to M9 2ss37-45.7-42.7-42.4-31.6-21.4510.1VHT80 Beam Forming, M0 to M9 2ss35-42.6-42.8-42.7-32.9-21.4510.1VHT80 Beam Forming, M0 to M9 2ss35-42.6-42.8-42.7-32.9-21.4511.5VHT80 Beam Forming, M0 to M9 3ss411-47.3-47.1-47.5-48.5-30.5-21.459.1VHT80 Beam Forming, M0 to M9 2ss48-46.0-43.7-43.5-44.2-30.2-21.458.8VHT80 Beam Forming, M0 to M9 3ss46-46.1-43.2-41.9-44.5-31.6-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.9-43.5-44.2-30.2-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.9-33.8-21.4512.4		VHT80, M0 to M9 3ss	3	5	-42.6	-42.8	-42.7		-32.9	-21.45	11.5
VHT80, M0 to M9 3ss       4       5       -45.7       -42.7       -42.4       -43.2       -32.3       -21.45       10.9         VHT80 Beam Forming, M0 to M9 1ss       2       8       -45.7       -42.7       -42.4       -43.2       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 2ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 Beam Forming, M0 to M9 2ss       2       5       -41.8       -41.9       -33.8       -21.45       10.7         VHT80 Beam Forming, M0 to M9 2ss       3       10       -46.6       -46.6       -47.5       -32.1       -21.45       10.7         VHT80 Beam Forming, M0 to M9 2ss       3       7       -45.7       -42.7       -42.4       -31.6       -21.45       10.1         VHT80 Beam Forming, M0 to M9 2ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       10.1         VHT80 Beam Forming, M0 to M9 3ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 2ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21		VHT80, M0 to M9 1ss	4	5	-45.7	-42.7	-42.4	-43.2	-32.3	-21.45	10.9
VHT80 Beam Forming, M0 to M9 1ss       2       8       -45.7       -42.7       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 2ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 Beam Forming, M0 to M9 1ss       3       10       -46.6       -46.6       -47.5       -32.1       -21.45       10.7         VHT80 Beam Forming, M0 to M9 1ss       3       10       -46.6       -42.7       -42.4       -31.6       -21.45       10.7         VHT80 Beam Forming, M0 to M9 2ss       3       7       -45.7       -42.7       -42.4       -31.6       -21.45       10.1         VHT80 Beam Forming, M0 to M9 2ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 3ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 3ss       4       8       -46.0       -43.7       -43.5       -44.2       -31.6       -21.45 <td>30</td> <td>VHT80, M0 to M9 2ss</td> <td>4</td> <td>5</td> <td>-45.7</td> <td>-42.7</td> <td>-42.4</td> <td>-43.2</td> <td>-32.3</td> <td>-21.45</td> <td>10.9</td>	30	VHT80, M0 to M9 2ss	4	5	-45.7	-42.7	-42.4	-43.2	-32.3	-21.45	10.9
VHT80 Beam Forming, M0 to M9 2ss25-41.8-41.9-33.8-21.4512.4VHT80 Beam Forming, M0 to M9 1ss310-46.6-46.6-47.5-32.1-21.4510.7VHT80 Beam Forming, M0 to M9 2ss37-45.7-42.7-42.4-31.6-21.4510.1VHT80 Beam Forming, M0 to M9 3ss35-42.6-42.8-42.7-32.9-21.4511.5VHT80 Beam Forming, M0 to M9 3ss411-47.3-47.1-47.5-48.5-30.5-21.459.1VHT80 Beam Forming, M0 to M9 1ss48-46.0-43.7-43.5-44.2-30.2-21.459.1VHT80 Beam Forming, M0 to M9 2ss46-46.1-43.2-41.9-44.5-31.6-21.4510.2VHT80 Beam Forming, M0 to M9 2ss46-46.1-43.2-41.9-44.5-31.6-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.9-43.5-44.2-30.2-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.9-33.8-21.4512.4VHT80 STBC, M0 to M9 1ss35-42.6-42.8-42.7-32.9-21.4512.4VHT80 STBC, M0 to M9 1ss35-42.6-42.8-42.7-32.9-21.4511.5	55	VHT80, M0 to M9 3ss	4	5	-45.7	-42.7	-42.4	-43.2	-32.3	-21.45	10.9
VHT80 Beam Forming, M0 to M9 1ss       3       10       -46.6       -46.6       -47.5       -32.1       -21.45       10.7         VHT80 Beam Forming, M0 to M9 2ss       3       7       -45.7       -42.7       -42.4       -31.6       -21.45       10.1         VHT80 Beam Forming, M0 to M9 3ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       10.1         VHT80 Beam Forming, M0 to M9 3ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.2       -21.45       9.1         VHT80 Beam Forming, M0 to M9 2ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21.45       10.2         VHT80 Beam Forming, M0 to M9 3ss       4       6       -46.1       -43.2       -41.9       -44.5       -31.6       -21.45       10.2         VHT80 STBC, M0 to M9 1ss       2       5       -41.8       -41.9 <t< td=""><td></td><td>VHT80 Beam Forming, M0 to M9 1ss</td><td>2</td><td>8</td><td>-45.7</td><td>-42.7</td><td></td><td></td><td>-32.9</td><td>-21.45</td><td>11.5</td></t<>		VHT80 Beam Forming, M0 to M9 1ss	2	8	-45.7	-42.7			-32.9	-21.45	11.5
VHT80 Beam Forming, M0 to M9 2ss       3       7       -45.7       -42.7       -42.4       -31.6       -21.45       10.1         VHT80 Beam Forming, M0 to M9 3ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 1ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21.45       8.8         VHT80 Beam Forming, M0 to M9 2ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21.45       8.8         VHT80 Beam Forming, M0 to M9 3ss       4       6       -46.1       -43.2       -41.9       -44.5       -31.6       -21.45       10.2         VHT80 STBC, M0 to M9 1ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 STBC, M0 to M9 1ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5		VHT80 Beam Forming, M0 to M9 2ss	2	5	-41.8	-41.9			-33.8	-21.45	12.4
VHT80 Beam Forming, M0 to M9 3ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.3       -47.1       -47.5       -48.5       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 2ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21.45       8.8         VHT80 Beam Forming, M0 to M9 2ss       4       6       -46.1       -43.7       -43.5       -44.2       -30.2       -21.45       8.8         VHT80 Beam Forming, M0 to M9 3ss       4       6       -46.1       -43.2       -41.9       -44.5       -31.6       -21.45       10.2         VHT80 STBC, M0 to M9 1ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 STBC, M0 to M9 1ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5		VHT80 Beam Forming, M0 to M9 1ss	3	10	-46.6	-46.6	-47.5		-32.1	-21.45	10.7
VHT80 Beam Forming, M0 to M9 1ss411-47.3-47.1-47.5-48.5-30.5-21.459.1VHT80 Beam Forming, M0 to M9 2ss48-46.0-43.7-43.5-44.2-30.2-21.458.8VHT80 Beam Forming, M0 to M9 3ss46-46.1-43.2-41.9-44.5-31.6-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.9-33.8-21.4512.4VHT80 STBC, M0 to M9 1ss35-42.6-42.8-42.7-32.9-21.4511.5		VHT80 Beam Forming, M0 to M9 2ss	3	7	-45.7	-42.7	-42.4		-31.6	-21.45	10.1
VHT80 Beam Forming, M0 to M9 2ss       4       8       -46.0       -43.7       -43.5       -44.2       -30.2       -21.45       8.8         VHT80 Beam Forming, M0 to M9 3ss       4       6       -46.1       -43.2       -41.9       -44.5       -31.6       -21.45       10.2         VHT80 STBC, M0 to M9 1ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 STBC, M0 to M9 1ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5		VHT80 Beam Forming, M0 to M9 3ss	3	5	-42.6	-42.8	-42.7		-32.9	-21.45	11.5
VHT80 Beam Forming, M0 to M9 3ss46-46.1-43.2-41.9-44.5-31.6-21.4510.2VHT80 STBC, M0 to M9 1ss25-41.8-41.933.8-21.4512.4VHT80 STBC, M0 to M9 1ss35-42.6-42.8-42.732.9-21.4511.5		VHT80 Beam Forming, M0 to M9 1ss	4	11	-47.3	-47.1	-47.5	-48.5	-30.5	-21.45	9.1
VHT80 STBC, M0 to M9 1ss       2       5       -41.8       -41.9       -33.8       -21.45       12.4         VHT80 STBC, M0 to M9 1ss       3       5       -42.6       -42.8       -42.7       -32.9       -21.45       11.5		VHT80 Beam Forming, M0 to M9 2ss	4	8	-46.0	-43.7	-43.5	-44.2	-30.2	-21.45	8.8
VHT80 STBC, M0 to M9 1ss         3         5         -42.6         -42.7         -32.9         -21.45         11.5		VHT80 Beam Forming, M0 to M9 3ss	4	6	-46.1	-43.2	-41.9	-44.5	-31.6	-21.45	10.2
		VHT80 STBC, M0 to M9 1ss	2	5	-41.8	-41.9			-33.8	-21.45	12.4
VHT80 STBC, M0 to M9 1ss 4 5 -45.7 -42.7 -42.4 -43.2 -32.3 -21.45 10.9		VHT80 STBC, M0 to M9 1ss	3	5	-42.6	-42.8	-42.7		-32.9	-21.45	11.5
		VHT80 STBC, M0 to M9 1ss	4	5	-45.7	-42.7	-42.4	-43.2	-32.3	-21.45	10.9

Page No: 46 of 86

	Non HT40, 6 to 54 Mbps	1	5	-33.5				-28.5	-21.35	7.2
	Non HT40, 6 to 54 Mbps	2	5	-41.6	-38.9			-32.0	-21.35	10.7
	Non HT40, 6 to 54 Mbps	3	5	-41.3	-39.2	-42.2		-30.9	-21.35	9.6
	Non HT40, 6 to 54 Mbps	4	5	-41.3	-39.2	-42.2	-39.8	-29.4	-21.35	8.1
	HT/VHT40, M0 to M7	1	5	-37.7				-32.7	-21.35	11.4
	HT/VHT40, M0 to M7	2	5	-39.7	-38.5			-31.0	-21.35	9.7
	HT/VHT40, M8 to M15	2	5	-39.7	-38.5			-31.0	-21.35	9.7
	HT/VHT40, M0 to M7	3	5	-41.7	-39.6	-40.5		-30.7	-21.35	9.4
	HT/VHT40, M8 to M15	3	5	-41.7	-39.6	-40.5		-30.7	-21.35	9.4
	HT/VHT40, M16 to M23	3	5	-41.7	-39.6	-40.5		-30.7	-21.35	9.4
	HT/VHT40, M0 to M7	4	5	-42.1	-41.5	-41.4	-40.7	-30.4	-21.35	9.0
5550	HT/VHT40, M8 to M15	4	5	-42.1	-41.5	-41.4	-40.7	-30.4	-21.35	9.0
55	HT/VHT40, M16 to M23	4	5	-42.1	-41.5	-41.4	-40.7	-30.4	-21.35	9.0
	HT/VHT40 Beam Forming, M0 to M7	2	8	-41.7	-39.6			-29.5	-21.35	8.2
	HT/VHT40 Beam Forming, M8 to M15	2	5	-39.7	-38.5			-31.0	-21.35	9.7
	HT/VHT40 Beam Forming, M0 to M7	3	10	-47.2	-47.2	-47.3		-32.5	-21.35	11.1
	HT/VHT40 Beam Forming, M8 to M15	3	7	-42.9	-41.4	-42.6		-30.5	-21.35	9.1
	HT/VHT40 Beam Forming, M16 to M23	3	5	-41.7	-39.6	-40.5		-30.7	-21.35	9.4
	HT/VHT40 Beam Forming, M0 to M7	4	11	-47.2	-47.2	-47.3	-49.3	-30.6	-21.35	9.3
	HT/VHT40 Beam Forming, M8 to M15	4	8	-46.0	-43.5	-43.4	-45.1	-30.3	-21.35	9.0
	HT/VHT40 Beam Forming, M16 to M23	4	6	-42.9	-41.4	-42.6	-41.1	-29.9	-21.35	8.6
	HT/VHT40 STBC, M0 to M7	2	5	-39.7	-38.5			-31.0	-21.35	9.7
	HT/VHT40 STBC, M0 to M7	3	5	-41.7	-39.6	-40.5		-30.7	-21.35	9.4
	HT/VHT40 STBC, M0 to M7	4	5	-42.1	-41.5	-41.4	-40.7	-30.4	-21.35	9.0
	Non HT20, 6 to 54 Mbps	1	5	-34.4				-29.4	-21.25	8.2
	Non HT20, 6 to 54 Mbps	2	5	-37.1	-38.4			-29.7	-21.25	8.4
	Non HT20, 6 to 54 Mbps	3	5	-39.8	-40.9	-42.1		-31.1	-21.25	9.8
	Non HT20, 6 to 54 Mbps	4	5	-45.1	-42.3	-42.8	-41.8	-31.8	-21.25	10.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-39.9	-39.7			-28.8	-21.25	7.5
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-46.9	-47.5	-46.8		-32.3	-21.25	11.0
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-46.1	-47.0	-47.0	-43.9	-28.8	-21.25	7.5
	HT/VHT20, M0 to M7	1	5	-35.2				-30.2	-21.25	9.0
60	HT/VHT20, M0 to M7	2	5	-33.9	-37.9			-27.4	-21.25	6.2
5560	HT/VHT20, M8 to M15	2	5	-33.9	-37.9			-27.4	-21.25	6.2
	HT/VHT20, M0 to M7	3	5	-39.5	-42.0	-41.4		-31.1	-21.25	9.8
	HT/VHT20, M8 to M15	3	5	-39.1	-40.2	-38.9		-29.6	-21.25	8.3
	HT/VHT20, M16 to M23	3	5	-39.1	-40.2	-38.9		-29.6	-21.25	8.3
	HT/VHT20, M0 to M7	4	5	-42.6	-41.8	-42.8	-39.6	-30.5	-21.25	9.2
	HT/VHT20, M8 to M15	4	5	-39.5	-42.0	-41.4	-35.2	-27.6	-21.25	6.3
	HT/VHT20, M16 to M23	4	5	-39.5	-42.0	-41.4	-35.2	-27.6	-21.25	6.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	-39.1	-40.2			-28.6	-21.25	7.4
	HT/VHT20 Beam Forming, M8 to M15	2	5	-33.9	-37.9			-27.4	-21.25	6.2

Page No: 47 of 86

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	HT/VHT20 Beam Forming, M0 to M7	3	10	-45.9	-47.2	-46.7		-31.8	-21.25	10.5
	HT/VHT20 Beam Forming, M8 to M15	3	7	-42.5	-41.6	-40.8		-29.8	-21.25	8.6
	HT/VHT20 Beam Forming, M16 to M23	3	5	-39.1	-40.2	-38.9		-29.6	-21.25	8.3
	HT/VHT20 Beam Forming, M0 to M7	4	11	-47.0	-47.4	-47.4	-48.1	-30.4	-21.25	9.2
	HT/VHT20 Beam Forming, M8 to M15	4	8	-46.2	-43.6	-42.7	-42.7	-29.6	-21.25	8.3
	HT/VHT20 Beam Forming, M16 to M23	4	6	-42.5	-41.6	-40.8	-37.7	-28.2	-21.25	7.0
	HT/VHT20 STBC, M0 to M7	2	5	-33.9	-37.9			-27.4	-21.25	6.2
	HT/VHT20 STBC, M0 to M7	3	5	-39.1	-40.2	-38.9		-29.6	-21.25	8.3
	HT/VHT20 STBC, M0 to M7	4	5	-39.5	-42.0	-41.4	-35.2	-27.6	-21.25	6.3
	Non HT160, 6 to 54 Mbps	1	5	-38.6				-33.6	-21.45	12.2
	Non HT160, 6 to 54 Mbps	2	5	-38.7	-39.0			-30.8	-21.45	9.4
	Non HT160, 6 to 54 Mbps	3	5	-43.0	-38.7	-38.9		-30.0	-21.45	8.6
	Non HT160, 6 to 54 Mbps	4	5	-43.3	-45.0	-43.9	-45.5	-33.3	-21.45	11.9
	VHT160, M0 to M9 1ss	1	5	-37.1				-32.1	-21.45	10.7
	VHT160, M0 to M9 1ss	2	5	-37.1	-34.8			-27.8	-21.45	6.3
	VHT160, M0 to M9 2ss	2	5	-37.1	-34.8			-27.8	-21.45	6.3
	VHT160, M0 to M9 1ss	3	5	-36.5	-38.4	-37.3		-27.6	-21.45	6.1
	VHT160, M0 to M9 2ss	3	5	-36.5	-38.4	-37.3		-27.6	-21.45	6.1
	VHT160, M0 to M9 3ss	3	5	-36.5	-38.4	-37.3		-27.6	-21.45	6.1
	VHT160, M0 to M9 1ss	4	5	-36.5	-38.4	-37.3	-38.8	-26.6	-21.45	5.2
5570	VHT160, M0 to M9 2ss	4	5	-36.5	-38.4	-37.3	-38.8	-26.6	-21.45	5.2
55	VHT160, M0 to M9 3ss	4	5	-36.5	-38.4	-37.3	-38.8	-26.6	-21.45	5.2
	VHT160 Beam Forming, M0 to M9 1ss	2	8	-36.5	-38.4			-26.3	-21.45	4.9
	VHT160 Beam Forming, M0 to M9 2ss	2	5	-37.1	-34.8			-27.8	-21.45	6.3
	VHT160 Beam Forming, M0 to M9 1ss	3	10	-46.4	-43.9	-43.3		-29.6	-21.45	8.1
	VHT160 Beam Forming, M0 to M9 2ss	3	7	-41.8	-41.3	-40.2		-29.3	-21.45	7.8
	VHT160 Beam Forming, M0 to M9 3ss	3	5	-36.5	-38.4	-37.3		-27.6	-21.45	6.1
	VHT160 Beam Forming, M0 to M9 1ss	4	11	-47.5	-47.2	-46.4	-47.8	-30.2	-21.45	8.7
	VHT160 Beam Forming, M0 to M9 2ss	4	8	-46.4	-43.9	-43.3	-45.3	-30.5	-21.45	9.1
	VHT160 Beam Forming, M0 to M9 3ss	4	6	-41.8	-41.3	-40.2	-43.6	-29.5	-21.45	8.1
	VHT160 STBC, M0 to M9 1ss	2	5	-37.1	-34.8			-27.8	-21.45	6.3
	VHT160 STBC, M0 to M9 1ss	3	5	-36.5	-38.4	-37.3		-27.6	-21.45	6.1
	VHT160 STBC, M0 to M9 1ss	4	5	-36.5	-38.4	-37.3	-38.8	-26.6	-21.45	5.2
	Non HT80, 6 to 54 Mbps	1	5	-39.0				-34.0	-21.45	12.6
	Non HT80, 6 to 54 Mbps	2	5	-39.2	-39.9			-31.5	-21.45	10.1
	Non HT80, 6 to 54 Mbps	3	5	-43.4	-41.1	-40.0		-31.5	-21.45	10.1
10	Non HT80, 6 to 54 Mbps	4	5	-44.0	-40.7	-40.3	-41.6	-30.4	-21.45	9.0
5610	VHT80, M0 to M9 1ss	1	5	-37.9				-32.9	-21.45	11.5
	VHT80, M0 to M9 1ss	2	5	-40.7	-39.1			-31.8	-21.45	10.4
	VHT80, M0 to M9 2ss	2	5	-40.7	-39.1			-31.8	-21.45	10.4
	VHT80, M0 to M9 1ss	3	5	-40.5	-41.1	-41.6		-31.3	-21.45	9.8

Page No: 48 of 86

VHT80, M0 to M9 2ss         3         5         -40.5         41.1         41.6         -31.3         -21.45         9.8           VHT80, M0 to M9 2ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80, M0 to M9 2ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80, M0 to M9 2ss         2         8         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80 Beam Forming, M0 to M9 1ss         2         8         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.3           VHT80 Beam Forming, M0 to M9 2ss         3         10         -47.0         43.3         -66.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         -40.5         41.1         -41.6         -31.3         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.0         -42.4         -43.0         -21.45         9.3           VHT80 Beam Forming, M0 to M9 1ss         2											
VHT80, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80, M0 to M9 2ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80, M0 to M9 2ss         2         8         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80 Beam Forming, M0 to M9 2ss         2         5         -40.7         -33.1         -31.8         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         7         -42.8         -42.0         -42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         6         -42.8         -42.0         -42.4         -43.3         -21.45         9.3           VHT80 STBC, M0 to		VHT80, M0 to M9 2ss	3	5	-40.5	-41.1	-41.6		-31.3	-21.45	9.8
VHT80, M0 to M9 2ss         4         5         40.5         41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80, M0 to M9 3ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80 Beam Forming, M0 to M9 1ss         2         8         -40.5         -41.1         -41.6         -31.8         -21.45         8.3           VHT80 Beam Forming, M0 to M9 2ss         2         5         -40.7         -33.1         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         7         -42.8         -42.0         -42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -43.0         -30.6         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -44.3         -30.6         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         3		VHT80, M0 to M9 3ss	3	5	-40.5	-41.1	-41.6		-31.3	-21.45	9.8
VHT80, M0 to M9 3ss         4         5         40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80 Beam Forming, M0 to M9 1ss         2         8         -40.5         -41.1         -29.8         -21.45         8.3           VHT80 Beam Forming, M0 to M9 2ss         2         5         -40.7         -33.1         -21.45         10.4           VHT80 Beam Forming, M0 to M9 2ss         3         10         -47.0         -43.3         -46.4         -30.5         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         5         -40.6         -47.5         -49.2         -30.6         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -40.0         -43.7         -45.3         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 2ss         4         6         -42.0         -42.4         -43.3         -30.6         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.8         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         1         5         -34.7         -41.1         -41.6		VHT80, M0 to M9 1ss	4	5	-40.5	-41.1	-41.6	-41.9	-30.2	-21.45	8.8
VHT80 Beam Forming, M0 to M9 1ss         2         8         -40.5         -41.1         -29.8         -21.45         8.3           VHT80 Beam Forming, M0 to M9 2ss         2         5         -40.7         -31.8         -21.45         10.4           VHT80 Beam Forming, M0 to M9 2ss         3         10         47.0         -43.3         46.4         -30.6         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         7         -42.8         +42.0         -42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         4         11         -47.9         -46.9         -47.5         -49.2         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -44.3         -30.8         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.3         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         1         5         -34.7         -29.7         -21.45         8.8           VHT80 STBC, M0 to M9 1ss         1         5         -34.7         -35.0         -28.7         -21.45         8.8 </td <td></td> <td>VHT80, M0 to M9 2ss</td> <td>4</td> <td>5</td> <td>-40.5</td> <td>-41.1</td> <td>-41.6</td> <td>-41.9</td> <td>-30.2</td> <td>-21.45</td> <td>8.8</td>		VHT80, M0 to M9 2ss	4	5	-40.5	-41.1	-41.6	-41.9	-30.2	-21.45	8.8
VHT80 Beam Forming, M0 to M9 2ss         2         5         40.7         -39.1         -31.8         -21.45         10.4           VHT80 Beam Forming, M0 to M9 1ss         3         10         47.0         -43.3         -46.4         -30.6         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         7         42.8         -42.0         42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 2ss         4         11         47.9         -46.9         47.5         -49.2         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         42.0         -42.4         -44.3         -30.8         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         8.8           VHT80 STBC, M0 to M9 1ss         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7		VHT80, M0 to M9 3ss	4	5	-40.5	-41.1	-41.6	-41.9	-30.2	-21.45	8.8
VHT80 Beam Forming, M0 to M9 1ss         3         10         -47.0         -43.3         -46.4         -30.5         -21.45         9.0           VHT80 Beam Forming, M0 to M9 2ss         3         7         -42.8         -42.0         -42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VHT80 Beam Forming, M0 to M9 1ss         4         11         -47.9         -46.9         -47.5         -49.2         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -44.3         -30.6         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.5         -41.1         -41.6         -31.3         -21.45         0.8           VHT80 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.3           Non HT80, 6 to 54 Mbps         1         5		VHT80 Beam Forming, M0 to M9 1ss	2	8	-40.5	-41.1			-29.8	-21.45	8.3
VHT80 Beam Forming, M0 to M9 2ss         3         7         42.8         42.0         42.4         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.1         -44.0         -43.1         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -41.1         -41.6         -41.3         -31.8         -21.45         8.8           VHT80 STBC, M0 to M9 1ss         1         5         -43.7         -41.1         -41.6         -41.4         -31.3         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -37.8         -38.4         -30.1         -21.45         8.8 <t< td=""><td></td><td>VHT80 Beam Forming, M0 to M9 2ss</td><td>2</td><td>5</td><td>-40.7</td><td>-39.1</td><td></td><td></td><td>-31.8</td><td>-21.45</td><td>10.4</td></t<>		VHT80 Beam Forming, M0 to M9 2ss	2	5	-40.7	-39.1			-31.8	-21.45	10.4
VHT80 Beam Forming, M0 to M9 3ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VHT80 Beam Forming, M0 to M9 1ss         4         11         -47.9         -46.9         -47.5         -49.2         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.3           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -31.8         -21.45         10.4           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.8         -21.45         8.8           VHT80 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -         -29.7         -21.45         8.3           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -30.1         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5		VHT80 Beam Forming, M0 to M9 1ss	3	10	-47.0	-43.3	-46.4		-30.5	-21.45	9.0
VHT80 Beam Forming, M0 to M9 1ss         4         11         -47.9         -46.9         -47.5         -49.2         -30.8         -21.45         9.3           VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 1ss         2         5         -40.7         -33.1         -31.8         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -36.5         -21.45         8.8         10.1           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           V		VHT80 Beam Forming, M0 to M9 2ss	3	7	-42.8	-42.0	-42.4		-30.6	-21.45	9.2
VHT80 Beam Forming, M0 to M9 2ss         4         8         -46.1         -44.0         -43.7         -45.3         -30.6         -21.45         9.2           VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -44.3         -30.8         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.8         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         3         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           VHT80 STBC, M0 to M9 1ss         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -41.2         -41.6         -40.4         -30.2         -21.45         8.8           VH780, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.6           VHT80, M0 to M9 2ss		VHT80 Beam Forming, M0 to M9 3ss	3	5	-40.5	-41.1	-41.6		-31.3	-21.45	9.8
VHT80 Beam Forming, M0 to M9 3ss         4         6         -42.8         -42.0         -42.4         -44.3         -30.8         -21.45         9.3           VHT80 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.8         -21.45         10.4           VHT80 STBC, M0 to M9 1ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VHT80 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7		VHT80 Beam Forming, M0 to M9 1ss	4	11	-47.9	-46.9	-47.5	-49.2	-30.8	-21.45	9.3
VH780 STBC, M0 to M9 1ss         2         5         -40.7         -39.1         -31.8         -21.45         10.4           VH780 STBC, M0 to M9 1ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VH780 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -30.1         -21.45         8.8           VH780, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.6           VH780, M0 to M9 1ss         2         5         -37.8         -38.4         -30.0         -21.45         8.6           VH780, M0 to M9 2ss         3 <t< td=""><td></td><td>VHT80 Beam Forming, M0 to M9 2ss</td><td>4</td><td>8</td><td>-46.1</td><td>-44.0</td><td>-43.7</td><td>-45.3</td><td>-30.6</td><td>-21.45</td><td>9.2</td></t<>		VHT80 Beam Forming, M0 to M9 2ss	4	8	-46.1	-44.0	-43.7	-45.3	-30.6	-21.45	9.2
VH780 STBC, M0 to M9 1ss         3         5         -40.5         -41.1         -41.6         -31.3         -21.45         9.8           VH780 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -39.7         -35.0         -28.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         8.8           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         1         5         -36.5         -         -31.5         -21.45         8.8           VH780, M0 to M9 1ss         1         5         -36.5         -         -30.1         -21.45         8.6           VH780, M0 to M9 2ss         2         5         -37.8         -38.4         -         -30.1         -21.45         8.6           VH780, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VH7		VHT80 Beam Forming, M0 to M9 3ss	4	6	-42.8	-42.0	-42.4	-44.3	-30.8	-21.45	9.3
VH780 STBC, M0 to M9 1ss         4         5         -40.5         -41.1         -41.6         -41.9         -30.2         -21.45         8.8           Non HT80, 6 to 54 Mbps         1         5         -34.7         -         -29.7         -21.45         8.3           Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         7.3           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VH780, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.6           VH780, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VH780, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VH780, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6		VHT80 STBC, M0 to M9 1ss	2	5	-40.7	-39.1			-31.8	-21.45	10.4
Non HT80, 6 to 54 Mbps         1         5         -34.7         -29.7         -21.45         8.3           Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         7.3           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.6           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         4         5		VHT80 STBC, M0 to M9 1ss	3	5	-40.5	-41.1	-41.6		-31.3	-21.45	9.8
Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         7.3           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.8           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT8		VHT80 STBC, M0 to M9 1ss	4	5	-40.5	-41.1	-41.6	-41.9	-30.2	-21.45	8.8
Non HT80, 6 to 54 Mbps         2         5         -39.7         -35.0         -28.7         -21.45         7.3           Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.6           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         +3.6         -30.5         -21.45         9.0           VHT80											
Non HT80, 6 to 54 Mbps         3         5         -41.2         -41.6         -40.4         -31.3         -21.45         9.8           Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.8           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 1ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9		Non HT80, 6 to 54 Mbps	1	5	-34.7				-29.7	-21.45	8.3
Non HT80, 6 to 54 Mbps         4         5         -41.2         -41.6         -40.4         -42.0         -30.2         -21.45         8.8           VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         8.8           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0		Non HT80, 6 to 54 Mbps	2	5	-39.7	-35.0			-28.7	-21.45	7.3
VHT80, M0 to M9 1ss         1         5         -36.5         -31.5         -21.45         10.1           VHT80, M0 to M9 1ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to		Non HT80, 6 to 54 Mbps	3	5	-41.2	-41.6	-40.4		-31.3	-21.45	9.8
VHT80, M0 to M9 1ss       2       5       -37.8       -38.4       -30.1       -21.45       8.6         VHT80, M0 to M9 2ss       2       5       -37.8       -38.4       -30.1       -21.45       8.6         VHT80, M0 to M9 1ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6         VHT80, M0 to M9 1ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6         VHT80, M0 to M9 2ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6         VHT80, M0 to M9 3ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6         VHT80, M0 to M9 3ss       4       5       -41.3       -41.5       -40.2       -43.6       -30.5       -21.45       9.0         VHT80, M0 to M9 2ss       4       5       -41.3       -41.5       -40.2       -43.6       -30.5       -21.45       9.0         VHT80, M0 to M9 3ss       4       5       -41.3       -41.5       -40.2       -43.6       -30.5       -21.45       9.0         VHT80, M0 to M9 3ss       2       5       -37.8 <td></td> <td>Non HT80, 6 to 54 Mbps</td> <td>4</td> <td>5</td> <td>-41.2</td> <td>-41.6</td> <td>-40.4</td> <td>-42.0</td> <td>-30.2</td> <td>-21.45</td> <td>8.8</td>		Non HT80, 6 to 54 Mbps	4	5	-41.2	-41.6	-40.4	-42.0	-30.2	-21.45	8.8
VHT80, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 1ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, Beam Forming, M0 to M9 1ss         2         8         -41.3         -41.5		VHT80, M0 to M9 1ss	1	5	-36.5				-31.5	-21.45	10.1
VHT80, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         8.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -41.3         -41.5         -30.4         -21.45         8.9           VHT80 Beam Forming, M0 to M9 1ss         3         10         -46.		VHT80, M0 to M9 1ss	2	5	-37.8	-38.4			-30.1	-21.45	8.6
VHT80, M0 to M9 2ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         2         8         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         8.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         -37.8         -38.4         -30.1         -21.45         8.6           VHT80 Beam Forming, M0 to M9 2ss         3         7		VHT80, M0 to M9 2ss	2	5	-37.8	-38.4			-30.1	-21.45	8.6
VHT80, M0 to M9 3ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6           VHT80, M0 to M9 1ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80 Beam Forming, M0 to M9 1ss         2         8         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         8.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -41.3         -41.5         -30.4         -21.45         8.0           VHT80 Beam Forming, M0 to M9 2ss         3         10         -46.1         -43.9         -43.2         -29.5         -21.45         8.6           VHT80 Beam Forming, M0 to M9 3ss		VHT80, M0 to M9 1ss	3	5	-40.4	-39.7	-39.3		-30.0	-21.45	8.6
VHT80, M0 to M9 1ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 2ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         4         5         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         9.0           VHT80, M0 to M9 3ss         2         8         -41.3         -41.5         -40.2         -43.6         -30.5         -21.45         8.9           VHT80 Beam Forming, M0 to M9 1ss         2         8         -41.3         -41.5         -40.2         -43.6         -30.1         -21.45         8.9           VHT80 Beam Forming, M0 to M9 2ss         2         5         -37.8         -38.4         -30.3         -21.45         8.9           VHT80 Beam Forming, M0 to M9 2ss         3         7         -42.2         -42.3         -41.8         -30.0         -21.45         8.6           VHT80 Beam Forming, M		VHT80, M0 to M9 2ss	3	5	-40.4	-39.7	-39.3		-30.0	-21.45	8.6
VHT80, M0 to M9 2ss45-41.3-41.5-40.2-43.6-30.5-21.459.0VHT80, M0 to M9 3ss45-41.3-41.5-40.2-43.6-30.5-21.459.0VHT80 Beam Forming, M0 to M9 1ss28-41.3-41.5-40.2-43.6-30.4-21.458.9VHT80 Beam Forming, M0 to M9 2ss25-37.8-38.4-30.1-21.458.6VHT80 Beam Forming, M0 to M9 2ss310-46.1-43.9-43.2-29.5-21.458.0VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.9VHT80 Beam Forming, M0 to M9 2ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 2ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 3ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 2ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 STBC, M0 to M9 1ss<		VHT80, M0 to M9 3ss	3	5	-40.4	-39.7	-39.3		-30.0	-21.45	8.6
VHT80, M0 to M9 3ss45-41.3-41.5-40.2-43.6-30.5-21.459.0VHT80 Beam Forming, M0 to M9 1ss28-41.3-41.5-30.4-21.458.9VHT80 Beam Forming, M0 to M9 2ss25-37.8-38.4-30.1-21.458.6VHT80 Beam Forming, M0 to M9 1ss310-46.1-43.9-43.2-29.5-21.458.0VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.9VHT80 Beam Forming, M0 to M9 2ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 3ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 3ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 3ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4 <td></td> <td>VHT80, M0 to M9 1ss</td> <td>4</td> <td>5</td> <td>-41.3</td> <td>-41.5</td> <td>-40.2</td> <td>-43.6</td> <td>-30.5</td> <td>-21.45</td> <td>9.0</td>		VHT80, M0 to M9 1ss	4	5	-41.3	-41.5	-40.2	-43.6	-30.5	-21.45	9.0
VHT80 Beam Forming, M0 to M9 1ss28-41.3-41.5-30.4-21.458.9VHT80 Beam Forming, M0 to M9 2ss25-37.8-38.4-30.1-21.458.6VHT80 Beam Forming, M0 to M9 1ss310-46.1-43.9-43.2-29.5-21.458.0VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.0VHT80 Beam Forming, M0 to M9 2ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 3ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 3ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 1ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6	6	VHT80, M0 to M9 2ss	4	5	-41.3	-41.5	-40.2	-43.6	-30.5	-21.45	9.0
VHT80 Beam Forming, M0 to M9 2ss25-37.8-38.430.1-21.458.6VHT80 Beam Forming, M0 to M9 1ss310-46.1-43.9-43.2-29.5-21.458.0VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.9VHT80 Beam Forming, M0 to M9 3ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 1ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 2ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 2ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.430.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.330.0-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.330.0-21.458.6	56	VHT80, M0 to M9 3ss	4	5	-41.3	-41.5	-40.2	-43.6	-30.5	-21.45	9.0
VHT80 Beam Forming, M0 to M9 1ss310-46.1-43.9-43.2-29.5-21.458.0VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.9VHT80 Beam Forming, M0 to M9 3ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 1ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 1ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 2ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6		VHT80 Beam Forming, M0 to M9 1ss	2	8	-41.3	-41.5			-30.4	-21.45	8.9
VHT80 Beam Forming, M0 to M9 2ss37-42.2-42.3-41.8-30.3-21.458.9VHT80 Beam Forming, M0 to M9 3ss35-40.4-39.7-39.3-30.0-21.458.6VHT80 Beam Forming, M0 to M9 1ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 2ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 2ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6		VHT80 Beam Forming, M0 to M9 2ss	2	5	-37.8	-38.4			-30.1	-21.45	8.6
VHT80 Beam Forming, M0 to M9 3ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6         VHT80 Beam Forming, M0 to M9 1ss       4       11       -47.5       -47.5       -47.0       -49.3       -30.7       -21.45       9.3         VHT80 Beam Forming, M0 to M9 1ss       4       8       -45.7       -47.5       -47.0       -49.3       -30.7       -21.45       9.3         VHT80 Beam Forming, M0 to M9 2ss       4       8       -45.7       -43.7       -43.4       -46.0       -30.5       -21.45       9.1         VHT80 Beam Forming, M0 to M9 3ss       4       6       -42.2       -42.3       -41.8       -44.2       -30.5       -21.45       9.1         VHT80 STBC, M0 to M9 1ss       2       5       -37.8       -38.4       -30.1       -21.45       8.6         VHT80 STBC, M0 to M9 1ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6		VHT80 Beam Forming, M0 to M9 1ss	3	10	-46.1	-43.9	-43.2		-29.5	-21.45	8.0
VHT80 Beam Forming, M0 to M9 1ss411-47.5-47.5-47.0-49.3-30.7-21.459.3VHT80 Beam Forming, M0 to M9 2ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.4-30.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.3-30.0-21.458.6		VHT80 Beam Forming, M0 to M9 2ss	3	7	-42.2	-42.3	-41.8		-30.3	-21.45	8.9
VHT80 Beam Forming, M0 to M9 2ss48-45.7-43.7-43.4-46.0-30.5-21.459.1VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.430.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.330.0-21.458.6		VHT80 Beam Forming, M0 to M9 3ss	3	5	-40.4	-39.7	-39.3		-30.0	-21.45	8.6
VHT80 Beam Forming, M0 to M9 3ss46-42.2-42.3-41.8-44.2-30.5-21.459.1VHT80 STBC, M0 to M9 1ss25-37.8-38.430.1-21.458.6VHT80 STBC, M0 to M9 1ss35-40.4-39.7-39.330.0-21.458.6		VHT80 Beam Forming, M0 to M9 1ss	4	11	-47.5	-47.5	-47.0	-49.3	-30.7	-21.45	9.3
VHT80 STBC, M0 to M9 1ss       2       5       -37.8       -38.4       -30.1       -21.45       8.6         VHT80 STBC, M0 to M9 1ss       3       5       -40.4       -39.7       -39.3       -30.0       -21.45       8.6		VHT80 Beam Forming, M0 to M9 2ss	4	8	-45.7	-43.7	-43.4	-46.0	-30.5	-21.45	9.1
VHT80 STBC, M0 to M9 1ss         3         5         -40.4         -39.7         -39.3         -30.0         -21.45         8.6		VHT80 Beam Forming, M0 to M9 3ss	4	6	-42.2	-42.3	-41.8	-44.2	-30.5	-21.45	9.1
		VHT80 STBC, M0 to M9 1ss	2	5	-37.8	-38.4			-30.1	-21.45	8.6
VHT80 STBC, M0 to M9 1ss 4 5 -41.3 -41.5 -40.2 -43.6 -30.5 -21.45 9.0		VHT80 STBC, M0 to M9 1ss	3	5	-40.4	-39.7	-39.3		-30.0	-21.45	8.6
		VHT80 STBC, M0 to M9 1ss	4	5	-41.3	-41.5	-40.2	-43.6	-30.5	-21.45	9.0

Page No: 49 of 86

	Non HT40, 6 to 54 Mbps	1	5	-34.9				-29.9	-21.35	8.6
	Non HT40, 6 to 54 Mbps	2	5	-39.2	-39.4			-31.3	-21.35	9.9
	Non HT40, 6 to 54 Mbps	3	5	-40.4	-39.4	-39.0		-29.8	-21.35	8.4
	Non HT40, 6 to 54 Mbps	4	5	-40.8	-41.5	-39.7	-42.3	-29.9	-21.35	8.6
	HT/VHT40, M0 to M7	1	5	-34.1				-29.1	-21.35	7.8
	HT/VHT40, M0 to M7	2	5	-38.7	-38.2			-30.4	-21.35	9.1
	HT/VHT40, M8 to M15	2	5	-38.7	-38.2			-30.4	-21.35	9.1
	HT/VHT40, M0 to M7	3	5	-40.8	-39.0	-38.8		-29.7	-21.35	8.3
	HT/VHT40, M8 to M15	3	5	-40.8	-39.0	-38.8		-29.7	-21.35	8.3
	HT/VHT40, M16 to M23	3	5	-40.8	-39.0	-38.8		-29.7	-21.35	8.3
	HT/VHT40, M0 to M7	4	5	-42.2	-41.3	-40.5	-43.9	-30.8	-21.35	9.4
10	HT/VHT40, M8 to M15	4	5	-42.2	-41.3	-40.5	-43.9	-30.8	-21.35	9.4
57	HT/VHT40, M16 to M23	4	5	-42.2	-41.3	-40.5	-43.9	-30.8	-21.35	9.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	-41.7	-39.5			-29.5	-21.35	8.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	-38.7	-38.2			-30.4	-21.35	9.1
	HT/VHT40 Beam Forming, M0 to M7	3	10	-46.6	-47.3	-45.8		-31.8	-21.35	10.4
	HT/VHT40 Beam Forming, M8 to M15	3	7	-43.5	-41.4	-41.6		-30.3	-21.35	8.9
	HT/VHT40 Beam Forming, M16 to M23	3	5	-40.8	-39.0	-38.8		-29.7	-21.35	8.3
	HT/VHT40 Beam Forming, M0 to M7	4	11	-47.6	-46.1	-46.0	-49.3	-30.0	-21.35	8.7
	HT/VHT40 Beam Forming, M8 to M15	4	8	-45.2	-43.5	-42.1	-45.1	-29.8	-21.35	8.4
	HT/VHT40 Beam Forming, M16 to M23	4	6	-43.5	-41.4	-41.6	-45.4	-30.7	-21.35	9.3
	HT/VHT40 STBC, M0 to M7	2	5	-38.7	-38.2			-30.4	-21.35	9.1
	HT/VHT40 STBC, M0 to M7	3	5	-40.8	-39.0	-38.8		-29.7	-21.35	8.3
	HT/VHT40 STBC, M0 to M7	4	5	-42.2	-41.3	-40.5	-43.9	-30.8	-21.35	9.4
	Non HT20, 6 to 54 Mbps	1	5	-38.7				-33.7	-21.25	12.5
	Non HT20, 6 to 54 Mbps	2	5	-38.9	-39.5			-31.2	-21.25	9.9
	Non HT20, 6 to 54 Mbps	3	5	-49.6	-45.1	-44.3		-36.0	-21.25	14.8
	Non HT20, 6 to 54 Mbps	4	5	-52.0	-51.3	-51.0	-53.8	-40.9	-21.25	19.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-38.9	-39.5			-28.2	-21.25	6.9
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-49.6	-45.1	-44.3		-31.0	-21.25	9.8
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-52.0	-51.3	-51.0	-53.8	-34.9	-21.25	13.6
	HT/VHT20, M0 to M7	1	5	-37.6				-32.6	-21.25	11.4
20	HT/VHT20, M0 to M7	2	5	-41.4	-38.9			-32.0	-21.25	10.7
5720	HT/VHT20, M8 to M15	2	5	-37.6	-35.8			-28.6	-21.25	7.3
	HT/VHT20, M0 to M7	3	5	-47.5	-46.6	-47.1		-37.3	-21.25	16.0
	HT/VHT20, M8 to M15	3	5	-38.7	-38.4	-44.2		-30.0	-21.25	8.7
	HT/VHT20, M16 to M23	3	5	-41.4	-38.9	-40.3		-30.3	-21.25	9.1
	HT/VHT20, M0 to M7	4	5	-52.5	-51.6	-51.3	-53.6	-41.1	-21.25	19.9
	HT/VHT20, M8 to M15	4	5	-45.6	-46.4	-47.7	-48.8	-35.9	-21.25	14.7
	HT/VHT20, M16 to M23	4	5	-38.7	-38.4	-44.2	-44.6	-29.5	-21.25	8.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	-41.4	-38.9			-29.0	-21.25	7.7
	HT/VHT20 Beam Forming, M8 to M15	2	5	-37.6	-35.8			-28.6	-21.25	7.3

Page No: 50 of 86

HT/VHT20 Beam Forming, M0 to M7	3	10	-47.5	-46.6	-47.1		-32.3	-21.25	11.0
HT/VHT20 Beam Forming, M8 to M15	3	7	-38.7	-38.4	-44.2		-28.0	-21.25	6.7
HT/VHT20 Beam Forming, M16 to M23	3	5	-41.4	-38.9	-40.3		-30.3	-21.25	9.1
HT/VHT20 Beam Forming, M0 to M7	4	11	-52.5	-51.6	-51.3	-53.6	-35.1	-21.25	13.9
HT/VHT20 Beam Forming, M8 to M15	4	8	-45.6	-46.4	-47.7	-48.8	-32.9	-21.25	11.7
HT/VHT20 Beam Forming, M16 to M23	4	6	-38.7	-38.4	-44.2	-44.6	-28.5	-21.25	7.3
HT/VHT20 STBC, M0 to M7	2	5	-37.6	-35.8			-28.6	-21.25	7.3
HT/VHT20 STBC, M0 to M7	3	5	-38.7	-38.4	-44.2		-30.0	-21.25	8.7
HT/VHT20 STBC, M0 to M7	4	5	-45.6	-46.4	-47.7	-48.8	-35.9	-21.25	14.7

Page No: 51 of 86

### Conducted Spurs Peak, 5570 MHz, VHT160 Beam Forming, M0 to M9 1ss





Antenna B

Page No: 52 of 86

# A.4 Conducted Bandedge

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

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

E[dBµV/m] = EIRP[dBm] - 20 log(d[meters]) + 104.77, where E = field strength and d = 3 meter

1) Average Plot, Limit= -41.25 dBm eirp

2) Peak plot, Limit = -21.25 dBm eirp

#### Test Procedure

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10.2013	
Conducted Bandedge	
Test Procedure	
<ol> <li>Connect the antenna port(s) to the spectrum analyzer input.</li> </ol>	
2. Place the radio in continuous transmit mode. Use the procedures in ANSI C63.10: 2013 to substitute conducte measurements in place of radiated measurements.	d
3. Configure Spectrum analyzer as per test parameters below (be sure to enter all losses between the transmitter o and the spectrum analyzer).	utput
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 resu	lts at
the various antenna ports are then summed mathematically to determine the total emission level from the device.	
Summing is performed in linear power units. The worst case output is recorded.	
6. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance.	

Also measure any emissions in the restricted bands

7. Capture graphs and record pertinent measurement data.

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

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

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

Tested By :	Date of testing:
Jose Aguirre	1-Nov-17 - 19-Mar-18

Test Result : PASS

See Appendix C for list of test equipment

Page No: 53 of 86

#### Average Measurements

Įz)	Average Measurements		(dBi)	<i>c</i> )			<i>t</i> i	ədge		
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Tx 4 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	-46.5				-41.5	-41.25	0.3
	Non HT20, 6 to 54 Mbps	2	5	-51.3	-54.5			-44.6	-41.25	3.4
	Non HT20, 6 to 54 Mbps	3	5	-56.9	-59.2	-58.0		-48.2	-41.25	6.9
	Non HT20, 6 to 54 Mbps	4	5	-59.4	-61.7	-61.1	-62.2	-49.9	-41.25	8.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-56.9	-59.2			-46.9	-41.25	5.6
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-66.7	-62.4	-66.9		-50.0	-41.25	8.8
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-67.0	-67.1	-67.0	-67.0	-50.0	-41.25	8.8
	HT/VHT20, M0 to M7	1	5	-48.5				-43.5	-41.25	2.3
	HT/VHT20, M0 to M7	2	5	-49.6	-53.5			-43.1	-41.25	1.9
	HT/VHT20, M8 to M15	2	5	-49.6	-53.5			-43.1	-41.25	1.9
	HT/VHT20, M0 to M7	3	5	-56.0	-57.7	-57.5		-47.2	-41.25	6.0
	HT/VHT20, M8 to M15	3	5	-53.2	-55.5	-54.9		-44.6	-41.25	3.4
0	HT/VHT20, M16 to M23	3	5	-53.2	-55.5	-54.9		-44.6	-41.25	3.4
5500	HT/VHT20, M0 to M7	4	5	-58.7	-61.0	-60.8	-61.4	-49.3	-41.25	8.1
L)	HT/VHT20, M8 to M15	4	5	-56.0	-57.7	-57.5	-58.1	-46.2	-41.25	5.0
	HT/VHT20, M16 to M23	4	5	-56.0	-57.7	-57.5	-58.1	-46.2	-41.25	5.0
	HT/VHT20 Beam Forming, M0 to M7	2	8	-57.5	-59.9			-47.5	-41.25	6.3
	HT/VHT20 Beam Forming, M8 to M15	2	5	-49.6	-53.5			-43.1	-41.25	1.9
	HT/VHT20 Beam Forming, M0 to M7	3	10	-66.7	-63.5	-66.9		-50.6	-41.25	9.4
	HT/VHT20 Beam Forming, M8 to M15	3	7	-57.5	-59.9	-59.1		-46.9	-41.25	5.7
	HT/VHT20 Beam Forming, M16 to M23	3	5	-53.2	-55.5	-54.9		-44.6	-41.25	3.4
	HT/VHT20 Beam Forming, M0 to M7	4	11	-66.9	-67.1	-67.0	-67.1	-50.0	-41.25	8.8
	HT/VHT20 Beam Forming, M8 to M15	4	8	-66.7	-63.5	-66.9	-63.0	-50.6	-41.25	9.4
	HT/VHT20 Beam Forming, M16 to M23	4	6	-57.5	-59.9	-59.1	-59.3	-46.8	-41.25	5.6
	HT/VHT20 STBC, M0 to M7	2	5	-49.6	-53.5			-43.1	-41.25	1.9
	HT/VHT20 STBC, M0 to M7	3	5	-53.2	-55.5	-54.9		-44.6	-41.25	3.4
	HT/VHT20 STBC, M0 to M7	4	5	-56.0	-57.7	-57.5	-58.1	-46.2	-41.25	5.0
	Non HT40, 6 to 54 Mbps	1	5	-52.8				-47.8	-41.35	6.5
	Non HT40, 6 to 54 Mbps	2	5	-57.8	-59.2			-50.4	-41.35	9.1
0	Non HT40, 6 to 54 Mbps	3	5	-57.8	-59.2	-59.2		-48.9	-41.35	7.6
5510	Non HT40, 6 to 54 Mbps	4	5	-64.4	-62.0	-60.7	-61.8	-51.0	-41.35	9.7
5	HT/VHT40, M0 to M7	1	5	-47.5				-42.5	-41.35	1.2
	HT/VHT40, M0 to M7	2	5	-52.4	-54.1			-45.2	-41.35	3.8
	HT/VHT40, M8 to M15	2	5	-52.4	-54.1			-45.2	-41.35	3.8

Page No: 54 of 86

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	HT/VHT40, M0 to M7	3	5	-53.8	-55.5	-54.8		-44.9	-41.35	3.5
	HT/VHT40, M8 to M15	3	5	-53.8	-55.5	-54.8		-44.9	-41.35	3.5
	HT/VHT40, M16 to M23	3	5	-53.8	-55.5	-54.8		-44.9	-41.35	3.5
	HT/VHT40, M0 to M7	4	5	-56.0	-56.9	-56.6	-55.9	-45.3	-41.35	4.0
	HT/VHT40, M8 to M15	4	5	-56.0	-56.9	-56.6	-55.9	-45.3	-41.35	4.0
	HT/VHT40, M16 to M23	4	5	-56.0	-56.9	-56.6	-55.9	-45.3	-41.35	4.0
	HT/VHT40 Beam Forming, M0 to M7	2	8	-56.0	-56.9			-45.4	-41.35	4.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	-52.4	-54.1			-45.2	-41.35	3.8
	HT/VHT40 Beam Forming, M0 to M7	3	10	-62.2	-64.4	-64.0		-48.7	-41.35	7.3
	HT/VHT40 Beam Forming, M8 to M15	3	7	-57.9	-58.4	-57.9		-46.3	-41.35	4.9
	HT/VHT40 Beam Forming, M16 to M23	3	5	-53.8	-55.5	-54.8		-44.9	-41.35	3.5
	HT/VHT40 Beam Forming, M0 to M7	4	11	-67.1	-67.1	-67.0	-66.9	-50.0	-41.35	8.7
	HT/VHT40 Beam Forming, M8 to M15	4	8	-62.2	-64.4	-64.0	-63.5	-49.4	-41.35	8.1
	HT/VHT40 Beam Forming, M16 to M23	4	6	-57.9	-58.4	-57.9	-57.3	-45.8	-41.35	4.5
	HT/VHT40 STBC, M0 to M7	2	5	-52.4	-54.1			-45.2	-41.35	3.8
	HT/VHT40 STBC, M0 to M7	3	5	-53.8	-55.5	-54.8		-44.9	-41.35	3.5
	HT/VHT40 STBC, M0 to M7	4	5	-56.0	-56.9	-56.6	-55.9	-45.3	-41.35	4.0
										'
	Non HT80, 6 to 54 Mbps	1	5	-51.8				-46.8	-41.45	5.3
	Non HT80, 6 to 54 Mbps	2	5	-54.7	-55.6			-47.1	-41.45	5.7
	Non HT80, 6 to 54 Mbps	3	5	-55.8	-56.5	-55.2		-46.0	-41.45	4.6
	Non HT80, 6 to 54 Mbps	4	5	-55.8	-56.5	-55.2	-56.0	-44.8	-41.45	3.4
	VHT80, M0 to M9 1ss	1	5	-46.7				-41.7	-41.45	0.3
	VHT80, M0 to M9 1ss	2	5	-50.1	-50.5			-42.3	-41.45	0.8
	VHT80, M0 to M9 2ss	2	5	-50.1	-50.5			-42.3	-41.45	0.8
	VHT80, M0 to M9 1ss	3	5	-51.5	-52.4	-52.0		-42.2	-41.45	0.7
	VHT80, M0 to M9 2ss	3	5	-51.5	-52.4	-52.0		-42.2	-41.45	0.7
	VHT80, M0 to M9 3ss	3	5	-51.5	-52.4	-52.0		-42.2	-41.45	0.7
	VHT80, M0 to M9 1ss	4	5	-53.0	-53.7	-53.2	-53.3	-42.3	-41.45	0.8
30	VHT80, M0 to M9 2ss	4	5	-53.0	-53.7	-53.2	-53.3	-42.3	-41.45	0.8
5530	VHT80, M0 to M9 3ss	4	5	-53.0	-53.7	-53.2	-53.3	-42.3	-41.45	0.8
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-53.0	-53.7			-42.3	-41.45	0.9
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-50.1	-50.5			-42.3	-41.45	0.8
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-57.1	-57.7	-57.6		-42.7	-41.45	1.2
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-53.0	-53.7	-53.2		-41.5	-41.45	0.1
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-51.5	-52.4	-52.0		-42.2	-41.45	0.7
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-59.1	-59.6	-59.2	-59.0	-42.2	-41.45	0.7
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-55.8	-56.0	-55.5	-55.4	-41.6	-41.45	0.2
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-54.4	-54.8	-54.5	-54.4	-42.5	-41.45	1.1
	VHT80 STBC, M0 to M9 1ss	2	5	-50.1	-50.5			-42.3	-41.45	0.8
	VHT80 STBC, M0 to M9 1ss	3	5	-51.5	-52.4	-52.0		-42.2	-41.45	0.7
	VHT80 STBC, M0 to M9 1ss	4	5	-53.0	-53.7	-53.2	-53.3	-42.3	-41.45	0.8

Page No: 55 of 86

	Non HT160, 6 to 54 Mbps	1	5	-50.2				-45.2	-41.45	3.8
	Non HT160, 6 to 54 Mbps	2	5	-50.7	-51.4			-43.0	-41.45	1.6
	Non HT160, 6 to 54 Mbps	3	5	-55.9	-51.5	-49.1		-41.6	-41.45	0.1
	Non HT160, 6 to 54 Mbps	4	5	-55.7	-59.0	-57.6	-56.1	-45.9	-41.45	4.4
	VHT160, M0 to M9 1ss	1	5	-51.3				-46.3	-41.45	4.8
	VHT160, M0 to M9 1ss	2	5	-51.3	-51.5			-43.4	-41.45	1.9
	VHT160, M0 to M9 2ss	2	5	-51.3	-51.5			-43.4	-41.45	1.9
	VHT160, M0 to M9 1ss	3	5	-52.8	-53.1	-53.9		-43.5	-41.45	2.0
	VHT160, M0 to M9 2ss	3	5	-52.8	-53.1	-53.9		-43.5	-41.45	2.0
	VHT160, M0 to M9 3ss	3	5	-52.8	-53.1	-53.9		-43.5	-41.45	2.0
	VHT160, M0 to M9 1ss	4	5	-52.8	-53.1	-53.9	-54.0	-42.4	-41.45	0.9
5570	VHT160, M0 to M9 2ss	4	5	-52.8	-53.1	-53.9	-54.0	-42.4	-41.45	0.9
55	VHT160, M0 to M9 3ss	4	5	-52.8	-53.1	-53.9	-54.0	-42.4	-41.45	0.9
	VHT160 Beam Forming, M0 to M9 1ss	2	8	-52.8	-53.1			-41.9	-41.45	0.5
	VHT160 Beam Forming, M0 to M9 2ss	2	5	-51.3	-51.5			-43.4	-41.45	1.9
	VHT160 Beam Forming, M0 to M9 1ss	3	10	-57.2	-57.2	-57.5		-42.5	-41.45	1.1
	VHT160 Beam Forming, M0 to M9 2ss	3	7	-54.2	-54.7	-55.3		-42.9	-41.45	1.5
	VHT160 Beam Forming, M0 to M9 3ss	3	5	-52.8	-53.1	-53.9		-43.5	-41.45	2.0
	VHT160 Beam Forming, M0 to M9 1ss	4	11	-60.8	-60.8	-60.9	-61.3	-43.9	-41.45	2.5
	VHT160 Beam Forming, M0 to M9 2ss	4	8	-57.2	-57.2	-57.5	-56.9	-43.2	-41.45	1.7
	VHT160 Beam Forming, M0 to M9 3ss	4	6	-54.2	-54.7	-55.3	-55.3	-42.8	-41.45	1.4
	VHT160 STBC, M0 to M9 1ss	2	5	-51.3	-51.5			-43.4	-41.45	1.9
	VHT160 STBC, M0 to M9 1ss	3	5	-52.8	-53.1	-53.9		-43.5	-41.45	2.0
	VHT160 STBC, M0 to M9 1ss	4	5	-52.8	-53.1	-53.9	-54.0	-42.4	-41.45	0.9

Page No: 56 of 86

### Conducted Bandedge Average, 5530 MHz, VHT80 Beam Forming, M0 to M9 2ss



RL RF 50 Ω DC		ototype - cliniced sale Anowed)		
Center Freq 5.44000000		#Avg Type: RMS	TRACE 2 3 4 5 6 TYPE M	Frequency
10 dB/div Ref 10.00 dBm	I GUILLOW INTERNET DE	Mkr2	5.352 88 GHz -60.60 dBm	Auto Tur
0.00 10.0 20.0				Center Fr 5.440000000 G
40.0				Start Fre 5.350000000 G
			.150.00 dBo	<b>Stop Fr</b> 5.53000000 G
Start 5.35000 GHz Res BW 1.0 MHz	#VBW 100 Hz	S Sweep 1	top 5.53000 GHz I.812 s (1001 pts)	CF Sto 18.000000 M Auto M
1 N 1 f 5	.470 00 GHz -53.70 dBm .352 88 GHz -60.60 dBm			Freq Offs 0
7 8 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10				Scale Ty
11 SG		STATUS	· · ·	

Antenna B

Antenna A



Antenna C

Page No: 57 of 86

Peak Measurements

-	car measurements									
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Tx 3 Bandedge Level (dBm)	Tx 4 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
	Non HT20, 6 to 54 Mbps	1	5	-28.2				-23.2	-21.25	2.0
	Non HT20, 6 to 54 Mbps	2	5	-32.0	-33.5			-24.7	-21.25	3.4
	Non HT20, 6 to 54 Mbps	3	5	-34.4	-35.2	-34.7		-25.0	-21.25	3.7
	Non HT20, 6 to 54 Mbps	4	5	-35.7	-36.9	-36.3	-37.1	-25.4	-21.25	4.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-34.4	-35.2			-23.8	-21.25	2.5
	Non HT20 Beam Forming, 6 to 54 Mbps	3	10	-37.1	-38.4	-37.9		-23.0	-21.25	1.7
	Non HT20 Beam Forming, 6 to 54 Mbps	4	11	-39.8	-40.5	-40.3	-40.1	-23.1	-21.25	1.9
	HT/VHT20, M0 to M7	1	5	-29.2				-24.2	-21.25	3.0
	HT/VHT20, M0 to M7	2	5	-29.4	-33.6			-23.0	-21.25	1.8
	HT/VHT20, M8 to M15	2	5	-29.4	-33.6			-23.0	-21.25	1.8
	HT/VHT20, M0 to M7	3	5	-34.6	-35.2	-35.1		-25.2	-21.25	3.9
	HT/VHT20, M8 to M15	3	5	-31.1	-33.6	-33.8		-22.9	-21.25	1.6
	HT/VHT20, M16 to M23	3	5	-31.1	-33.6	-33.8		-22.9	-21.25	1.6
5500	HT/VHT20, M0 to M7	4	5	-35.5	-36.1	-36.3	-37.0	-25.2	-21.25	3.9
5	HT/VHT20, M8 to M15	4	5	-34.6	-35.2	-35.1	-35.3	-24.0	-21.25	2.8
	HT/VHT20, M16 to M23	4	5	-34.6	-35.2	-35.1	-35.3	-24.0	-21.25	2.8
	HT/VHT20 Beam Forming, M0 to M7	2	8	-35.1	-36.3			-24.6	-21.25	3.4
	HT/VHT20 Beam Forming, M8 to M15	2	5	-29.4	-33.6			-23.0	-21.25	1.8
	HT/VHT20 Beam Forming, M0 to M7	3	10	-37.6	-38.2	-37.7		-23.1	-21.25	1.8
	HT/VHT20 Beam Forming, M8 to M15	3	7	-35.1	-36.3	-35.8		-23.9	-21.25	2.7
	HT/VHT20 Beam Forming, M16 to M23	3	5	-31.1	-33.6	-33.8		-22.9	-21.25	1.6
	HT/VHT20 Beam Forming, M0 to M7	4	11	-39.2	-40.9	-39.5	-39.3	-22.7	-21.25	1.4
	HT/VHT20 Beam Forming, M8 to M15	4	8	-37.6	-38.2	-37.7	-38.4	-23.9	-21.25	2.7
	HT/VHT20 Beam Forming, M16 to M23	4	6	-35.1	-36.3	-35.8	-36.1	-23.8	-21.25	2.5
	HT/VHT20 STBC, M0 to M7	2	5	-29.4	-33.6	0010	0011	-23.0	-21.25	1.8
	HT/VHT20 STBC, M0 to M7	3	5	-31.1	-33.6	-33.8		-22.9	-21.25	1.6
	HT/VHT20 STBC, M0 to M7	4	5	-34.6	-35.2	-35.1	-35.3	-24.0	-21.25	2.8
		Ŧ	0	04.0	00.2	00.1	00.0	24.0	21.20	2.0
	Non HT40, 6 to 54 Mbps	1	5	-27.7				-22.7	-21.35	1.4
	Non HT40, 6 to 54 Mbps	2	5	-32.6	-33.2			-24.9	-21.35	3.5
	Non HT40, 6 to 54 Mbps	3	5	-32.6	-33.2	-31.9		-22.8	-21.35	1.4
10	Non HT40, 6 to 54 Mbps	4	5	-33.0	-33.6	-31.7	-33.8	-21.9	-21.35	0.6
551	HT/VHT40, M0 to M7	4	5	-26.6	00.0	01.7	00.0	-21.6	-21.35	0.0
	HT/VHT40, M0 to M7	2	5	-20.0	-31.1			-21.0	-21.35	0.3
	HT/VHT40, M8 to M15	2	5 5	-29.4	-31.1			-22.2	-21.35	0.8
		2	5	-29.4	-31.1			-22.2	-21.30	0.0

Page No: 58 of 86

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	HT/VHT40, M0 to M7	3	5	-30.4	-32.0	-32.0		-21.6	-21.35	0.3
	HT/VHT40, M8 to M15	3	5	-30.4	-32.0	-32.0		-21.6	-21.35	0.3
	HT/VHT40, M16 to M23	3	5	-30.4	-32.0	-32.0		-21.6	-21.35	0.3
	HT/VHT40, M0 to M7	4	5	-33.1	-33.8	-31.7	-32.6	-21.7	-21.35	0.4
	HT/VHT40, M8 to M15	4	5	-33.1	-33.8	-31.7	-32.6	-21.7	-21.35	0.4
	HT/VHT40, M16 to M23	4	5	-33.1	-33.8	-31.7	-32.6	-21.7	-21.35	0.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	-33.1	-33.8			-22.4	-21.35	1.1
	HT/VHT40 Beam Forming, M8 to M15	2	5	-29.4	-31.1			-22.2	-21.35	0.8
	HT/VHT40 Beam Forming, M0 to M7	3	10	-36.8	-35.4	-37.1		-21.6	-21.35	0.2
	HT/VHT40 Beam Forming, M8 to M15	3	7	-34.1	-34.6	-33.6	<b></b> '	-22.3	-21.35	1.0
	HT/VHT40 Beam Forming, M16 to M23	3	5	-30.4	-32.0	-32.0		-21.6	-21.35	0.3
	HT/VHT40 Beam Forming, M0 to M7	4	11	-38.6	-38.4	-37.6	-39.7	-21.5	-21.35	0.1
	HT/VHT40 Beam Forming, M8 to M15	4	8	-36.8	-35.4	-37.1	-36.3	-22.3	-21.35	1.0
	HT/VHT40 Beam Forming, M16 to M23	4	6	-34.1	-34.6	-33.6	-33.0	-21.8	-21.35	0.4
	HT/VHT40 STBC, M0 to M7	2	5	-29.4	-31.1			-22.2	-21.35	0.8
	HT/VHT40 STBC, M0 to M7	3	5	-30.4	-32.0	-32.0		-21.6	-21.35	0.3
	HT/VHT40 STBC, M0 to M7	4	5	-33.1	-33.8	-31.7	-32.6	-21.7	-21.35	0.4
	Non HT80, 6 to 54 Mbps	1	5	-28.3				-23.3	-21.45	1.9
	Non HT80, 6 to 54 Mbps	2	5	-33.6	-36.9			-26.9	-21.45	5.5
	Non HT80, 6 to 54 Mbps	3	5	-36.6	-36.8	-40.7		-27.9	-21.45	6.5
	Non HT80, 6 to 54 Mbps	4	5	-36.6	-36.8	-40.7	-39.0	-26.9	-21.45	5.5
	VHT80, M0 to M9 1ss	1	5	-27.3				-22.3	-21.45	0.9
	VHT80, M0 to M9 1ss	2	5	-32.4	-32.8			-24.6	-21.45	3.1
	VHT80, M0 to M9 2ss	2	5	-32.4	-32.8			-24.6	-21.45	3.1
	VHT80, M0 to M9 1ss	3	5	-35.8	-35.0	-36.5		-26.0	-21.45	4.5
	VHT80, M0 to M9 2ss	3	5	-35.8	-35.0	-36.5		-26.0	-21.45	4.5
	VHT80, M0 to M9 3ss	3	5	-35.8	-35.0	-36.5		-26.0	-21.45	4.5
	VHT80, M0 to M9 1ss	4	5	-34.9	-36.9	-37.7	-36.7	-25.4	-21.45	4.0
30	VHT80, M0 to M9 2ss	4	5	-34.9	-36.9	-37.7	-36.7	-25.4	-21.45	4.0
5530	VHT80, M0 to M9 3ss	4	5	-34.9	-36.9	-37.7	-36.7	-25.4	-21.45	4.0
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-34.9	-36.9			-24.8	-21.45	3.3
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-32.4	-32.8			-24.6	-21.45	3.1
	VHT80 Beam Forming, M0 to M9 1ss	3	10	-39.5	-38.9	-38.5		-24.2	-21.45	2.7
	VHT80 Beam Forming, M0 to M9 2ss	3	7	-34.9	-36.9	-37.7		-24.6	-21.45	3.1
	VHT80 Beam Forming, M0 to M9 3ss	3	5	-35.8	-35.0	-36.5		-26.0	-21.45	4.5
	VHT80 Beam Forming, M0 to M9 1ss	4	11	-38.4	-39.2	-40.7	-40.7	-22.6	-21.45	1.2
	VHT80 Beam Forming, M0 to M9 2ss	4	8	-38.5	-37.3	-38.8	-38.5	-24.2	-21.45	2.8
	VHT80 Beam Forming, M0 to M9 3ss	4	6	-37.5	-37.3	-36.4	-38.8	-25.4	-21.45	3.9
	VHT80 STBC, M0 to M9 1ss	2	5	-32.4	-32.8			-24.6	-21.45	3.1
	VHT80 STBC, M0 to M9 1ss	3	5	-35.8	-35.0	-36.5		-26.0	-21.45	4.5
	VHT80 STBC, M0 to M9 1ss	4	5	-34.9	-36.9	-37.7	-36.7	-25.4	-21.45	4.0

Page No: 59 of 86

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	Non HT160, 6 to 54 Mbps	1	5	-27.0				-22.0	-21.45	0.6
	Non HT160, 6 to 54 Mbps	2	5	-33.7	-34.1			-25.9	-21.45	4.4
	Non HT160, 6 to 54 Mbps	3	5	-41.5	-41.8	-40.4		-31.4	-21.45	10.0
	Non HT160, 6 to 54 Mbps	4	5	-42.0	-41.5	-42.5	-43.0	-31.2	-21.45	9.7
	VHT160, M0 to M9 1ss	1	5	-29.3				-24.3	-21.45	2.9
	VHT160, M0 to M9 1ss	2	5	-29.3	-33.8			-23.0	-21.45	1.5
	VHT160, M0 to M9 2ss	2	5	-29.3	-33.8			-23.0	-21.45	1.5
	VHT160, M0 to M9 1ss	3	5	-36.5	-36.7	-37.1		-27.0	-21.45	5.5
	VHT160, M0 to M9 2ss	3	5	-36.5	-36.7	-37.1		-27.0	-21.45	5.5
	VHT160, M0 to M9 3ss	3	5	-36.5	-36.7	-37.1		-27.0	-21.45	5.5
	VHT160, M0 to M9 1ss	4	5	-36.5	-36.7	-37.1	-37.3	-25.9	-21.45	4.4
5570	VHT160, M0 to M9 2ss	4	5	-36.5	-36.7	-37.1	-37.3	-25.9	-21.45	4.4
55	VHT160, M0 to M9 3ss	4	5	-36.5	-36.7	-37.1	-37.3	-25.9	-21.45	4.4
	VHT160 Beam Forming, M0 to M9 1ss	2	8	-36.5	-36.7			-25.6	-21.45	4.1
	VHT160 Beam Forming, M0 to M9 2ss	2	5	-29.3	-33.8			-23.0	-21.45	1.5
	VHT160 Beam Forming, M0 to M9 1ss	3	10	-38.8	-38.6	-39.0		-24.0	-21.45	2.6
	VHT160 Beam Forming, M0 to M9 2ss	3	7	-37.8	-37.9	-37.1		-25.8	-21.45	4.4
	VHT160 Beam Forming, M0 to M9 3ss	3	5	-36.5	-36.7	-37.1		-27.0	-21.45	5.5
	VHT160 Beam Forming, M0 to M9 1ss	4	11	-40.0	-40.8	-40.0	-40.5	-23.3	-21.45	1.8
	VHT160 Beam Forming, M0 to M9 2ss	4	8	-38.8	-38.6	-39.0	-38.7	-24.8	-21.45	3.3
	VHT160 Beam Forming, M0 to M9 3ss	4	6	-37.8	-37.9	-37.1	-38.2	-25.7	-21.45	4.3
	VHT160 STBC, M0 to M9 1ss	2	5	-29.3	-33.8			-23.0	-21.45	1.5
	VHT160 STBC, M0 to M9 1ss	3	5	-36.5	-36.7	-37.1		-27.0	-21.45	5.5
	VHT160 STBC, M0 to M9 1ss	4	5	-36.5	-36.7	-37.1	-37.3	-25.9	-21.45	4.4

Page No: 60 of 86

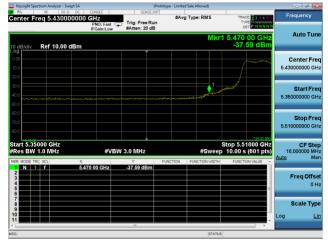
### Conducted Bandedge Peak, 5510 MHz, HT/VHT40 Beam Forming, M0 to M7







### Antenna A



Antenna C



Antenna D

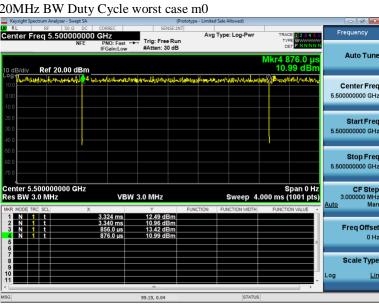
Page No: 61 of 86

# A.5 Duty Cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

1)Set the center frequency of the instrument to the center frequency of the transmission. 2)Set RBW  $\geq$  OBW if possible; otherwise, set RBW to the largest available value. 3)Set VBW  $\geq$  RBW. Set detector = peak or average.

Add [10 log (1 / D)], where D is the duty cycle, to the measured value where it is needed For example, add  $[10 \log (1/0.25)] = 6 dB$  if the duty cycle is 25%

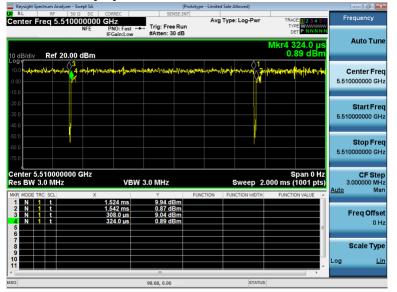


20MHz BW Duty Cycle worst case m0

The Duty cycle is 99.2%, no correction is needed for measurements of 20MHz BW.

Page No: 62 of 86

40MHz BW Duty Cycle worst case m0



The Duty cycle of 40MHz BW is 98.7%, a 0.1dB CF is added to measurements.

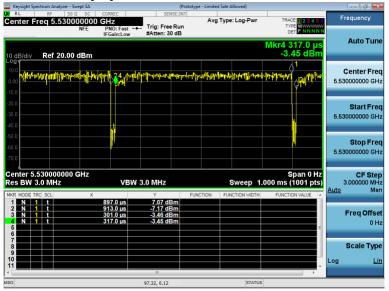
Time ON = 1.524ms - 0.324ms =1.2 ms

Period = 1.524ms - 0.308ms = 1.216ms

Duty Cycle = Time ON / Period = 1.2/1.216ms = 0.9868

Duty Cycle Correction factor =  $10 \log (1/D) = 0.06 dB$ 

80MHz BW Duty Cycle worst case m0x1



The Duty cycle of 80MHz BW is 97.3%, a 0.2dB CF is added to measurements.

Time ON = 897us - 317us = 580us

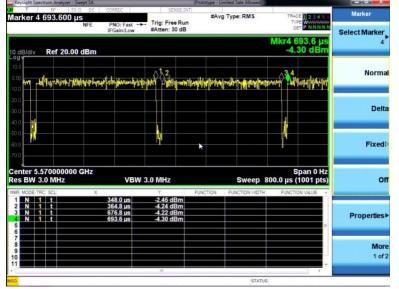
Period = 897us - 301us = 596us

Duty Cycle = Time ON / Period = 580/596us = 0.9732

Duty Cycle Correction factor = 10 log (1/D) = 0.12dB

Page No: 63 of 86

160MHz BW Duty Cycle worst case m0x1



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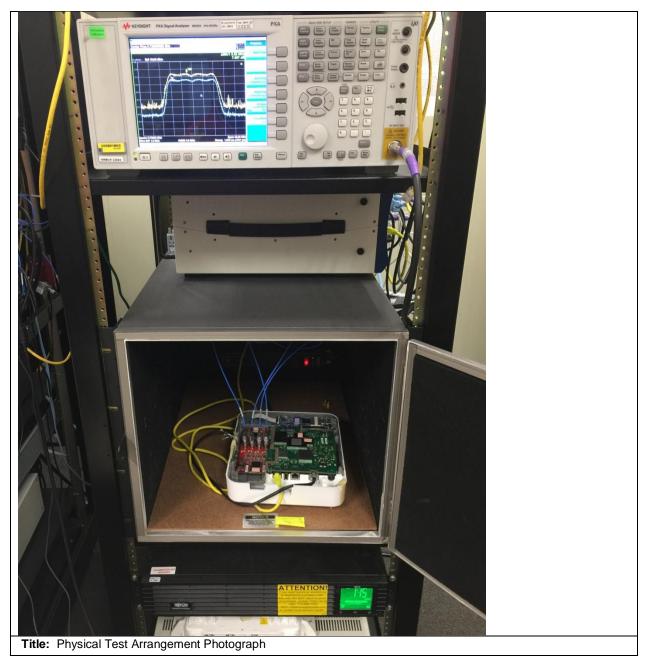
The Duty cycle of 160MHz BW is 95%, a 0.2dB CF is added to measurements.

Time ON = 676.8us - 364.8us = 311.8us

Period = 676.8us - 348us = 328.8us

Duty Cycle = Time ON / Period = 311.8/328.8us = 0.9482

Duty Cycle Correction factor =  $10 \log (1/D) = 0.2 dB$ 



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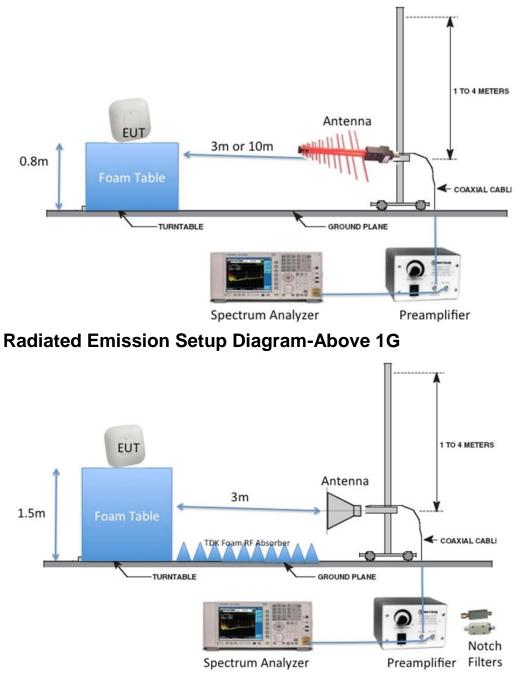
This is a dual band 2.4GHz / 5GHz device. All ports in this test set up photo are connected as all testing is automated. Section 2.6 of this test report given an overview of the different Tx antenna combinations used by this device.

Page No: 65 of 86

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

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## **Radiated Emission Setup Diagram-Below 1G**



Page No: 66 of 86

# **B.1 Radiated Spurious Emissions**

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

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

#### 15.205 / 15.209

(7) The provisions of 15.205 apply to intentional radiators operating under this section.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in 15.209.

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

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

Span:	1GHz – 18 GHz/18GHz-26G/26GHz-40GHz
Reference Level:	80 dBuV
Attenuation:	10 dB
Sweep Time:	Coupled
Resolution Bandwidth:	1MHz
Video Bandwidth:	3 MHz
Detector:	Peak / Average

Terminate the access Point RF ports with 50 ohm loads.

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

Save 2 plots:1) Average plot (Vertical and Horizontal), Limit= 54dBuV/m @3m2) Peak plot (Vertical and Horizontal), Limit = 74dBuV/m @3m

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

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

System Number	Description	Samples	System under test	Support equipment
	EUT	S01	$\mathbf{\nabla}$	
1	Support	S02		$\checkmark$

Tested By :	Date of testing:
Jose Aguirre	10-Feb-18 - 16-Feb-18
Test Result : PASS	

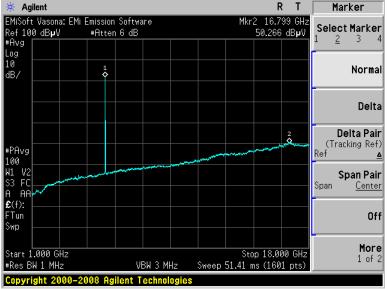
See Appendix C for list of test equipment

Page No: 67 of 86

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

Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (MHz)
5500	Non HT20, 6 to 54 Mbps	6	50.3	54.0	3.7
5560	Non HT20, 6 to 54 Mbps	6	50.2	54.0	3.8
5720	Non HT20, 6 to 54 Mbps	6	50.3	54.0	3.7

Page No: 68 of 86



Average Radiated Transmitter Spurs, 5500 MHz, 6 to 54 Mbps

Average Radiated Transmitter Spurs, 5560 MHz, 6 to 54 Mbps

🔆 Agilent							R	Т	Marker
EMiSoft Vas Ref 100 dE #Avg		Emission Sof #Atten 6 d				Mkr	3 16.75 50.238		Select Marker 1 2 <u>3</u> 4
Log 10 dB/									Norma
				2 \$		~.*~.**		3 Ø	Delta
#PAvg									<b>Delta Pair</b> (Tracking Ref) Ref ▲
Start 1.000 #Res BW 1 Marker		T	VBW 3 M	Hz Axis	Sweep !		op 18.00 ns (1601	l pts)	<b>Span Pair</b> Span <u>Center</u>
narker 1 2 3	(1) (1) (1) (1)	Type Freq Freq Freq	5.9 10.4	HXIS 558 GHz 456 GHz 757 GHz			Amplitu 81.94 dE 41.35 dE 50.24 dE	հիՄ հիՄ	Off
									More 1 of 2
Copyright	2000-20	008 Agilen	t Technol	ogies					

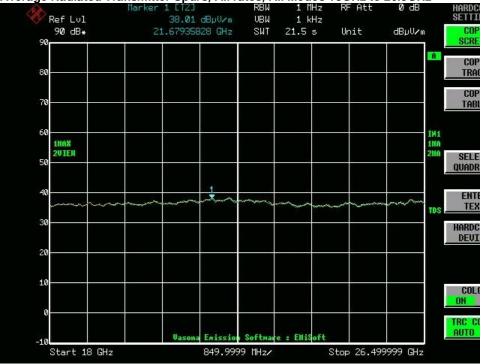
Page No: 69 of 86

🔆 Agilent			RT	Marker
EMiSoft Vasona: EMi Ref 100 dBµV ⊭Avg	Emission Software #Atten 6 dB		Mkr1 16.884 GHz 50.278 dBµV	Select Marker
-og 10 dB/				Norma
		2 2 2	1 	Delta
*PAvg				<b>Delta Pai</b> (Tracking Ref Ref
Start 1.000 GHz +Res BW 1 MHz	VBW	3 MHz Sweep	Stop 18.000 GHz 51.41 ms (1601 pts)	<b>Span Pai</b> Span Cente
Marker Trace 1 (1) 2 (1)	Type Freq Freq	X Axis 16.884 GHz 11.402 GHz	Amplitude 50.28 dBµV 44.22 dBµV	Of
				More 1 of 3

Average Radiated Transmitter Spurs, 5720 MHz, 6 to 54 Mbps

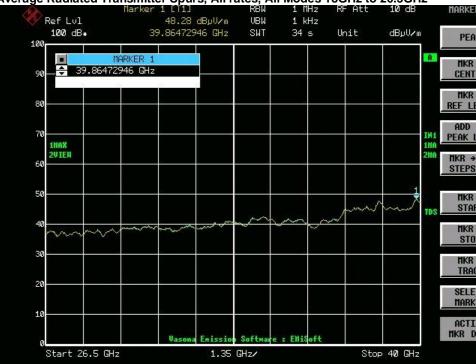
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Page No: 70 of 86



### Average Radiated Transmitter Spurs, All rates, All Modes 18GHz to 26.5GHz

Average Radiated Transmitter Spurs, All rates, All Modes 18GHz to 26.5GHz



Page No: 71 of 86

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

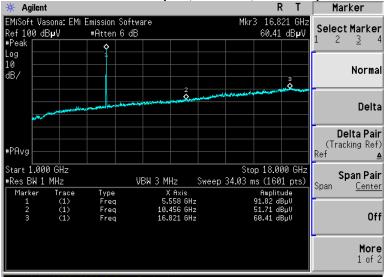
Frequency		Data Rate	Spurious Emission Level	Limit	Margin
(MHz)	Mode	(Mbps)	(dBuV/m)	(dBuV/m)	(MHz)
5500	Non HT20, 6 to 54 Mbps	6	61.6	74.0	12.4
5560	Non HT20, 6 to 54 Mbps	6	60.4	74.0	13.6
5720	Non HT20, 6 to 54 Mbps	6	60.3	74.0	13.7

Page No: 72 of 86

🔆 Agilent	t				RT	Marker
Ref 100 df		Emission Sof #Atten 6 d		Mkr4	10.148 GHz 53.21 dB <b>µ</b> V	Select Marker
#Peak Log		<b></b>				
10 dB/					3 _2 \$ \$	Marker Trace Auto 1 2 3
			Ý	A STATE OF STATE OF STATE OF STATE		
						<b>Readout</b> Frequency
						Marker Table
#PAvg						<u>On</u> Of
Start 1.00	0 GHz			Sto	o 18.000 GHz	
#Res BW 1			VBW 3 MHz Si	weep 34.03 m		Marker All Of
Marker	Trace	Туре	X Axis		Amplitude	
1	(1)	Freq	5.494 GHz		33.14 dBµV	
2 3	(1)	Freq	17.533 GHz		61.26 dBµV	
3	(1)	Freq	16.555 GHz		61.61 dBµV	
4	(1)	Freq	10.148 GHz		53.21 dBµV	
						More
						2 of 3
Copyright	2000-2	008 Agilent	: Technologies			2 U1

#### Peak Radiated Transmitter Spurs, 5500 MHz, 6 to 54 Mbps

Peak Radiated Transmitter Spurs, 5560 MHz, 6 to 54 Mbps



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Page No: 73 of 86

🔆 Agilent						R	Т	Marker
EMiSoft Vas Ref 100 dE #Peak		Emission So #Atten 6			Mkr1	16.91 60.72		Select Marker <u>1</u> 234
Log 10 dB/				2			1 \$	Norma
		ستمونهما الحميريناحي	والحواد فيعرفون الزان مسالي	an and a second	ile, meren rev agen ja	مريني والمريكين والمراجع المراجع	1967-1974-1997-1	Dolta
مسينه	and the second s							Delta
								Delta Pair
#PAvg								(Tracking Ref) Ref <u>4</u>
Start 1.000		<u> </u>			Stop	18.000	) GHz	Span Paiı
#Res BW 1			VBW 3 MH	·	o 34.03 m:		-	Span Center
Marker	Trace (1)	Type Freg		Axis 916 GHz	-	Amplitud 0.72 dBp		<u></u>
1 2	(1)	Freq		402 GHz		i7.27 dBµ		Ofi
								More 1 of 2
Copyright	2000-20	008 Agiler	it Technol	ogies				

Peak Radiated Transmitter Spurs, 5720 MHz, 6 to 54 Mbps

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Page No: 74 of 86

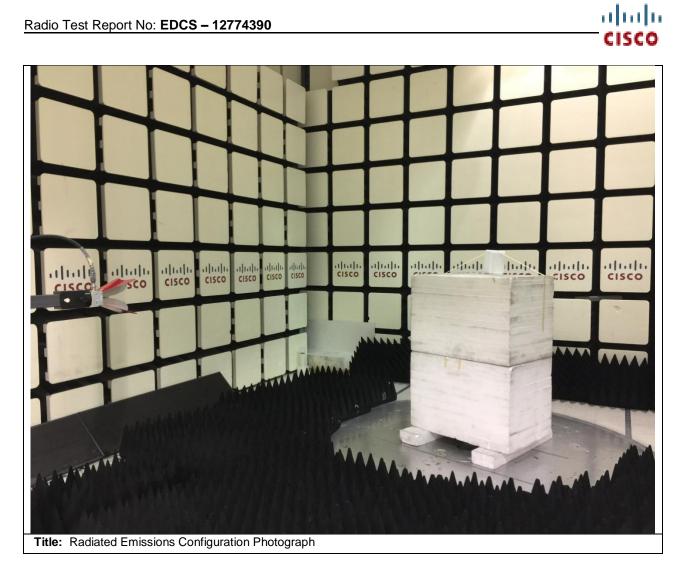
1arker 1	50.11 c	Bullza	RBW VBW		1Hz 1Hz	RF Att	ØdB	
	054107		SWT	86		Unit	dBµV∕m	
RKER 1								A
24 GHz					-	-		
					_			
								IN1
		1						111A 211A
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holdidysch Place			fron, owere de	historic and a second				

#### Peak Radiated Transmitter Spurs, All rates, All Modes 18GHz to 26.5GHz.





Page No: 75 of 86



# **B.2 Radiated Emissions 30MHz to 1GHz**

#### FCC 15.205 / 15.209

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

Ref. ANSI C63.10: 2013 section 6.5

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

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

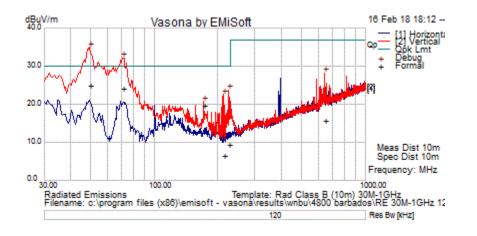
This report represents the worst case data for all supported operating modes and antennas.

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

Tested By :	Date of testing:
Jose Aguirre	16-Feb-18
Test Result : PASS	

See Appendix C for list of test equipment

Page No: 77 of 86



Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
213.304	21.6	1.6	-16.6	6.6	Quasi Max	V	122	25	30	-23.4	Pass
644.369	21.7	2.8	-8.6	15.8	Quasi Max	V	240	25	37	-21.2	Pass
225.013	23.8	1.6	-16.1	9.3	Quasi Max	V	172	28	30	-20.7	Pass
71.218	42.8	0.9	-19.5	24.2	Quasi Max	V	192	128	30	-5.8	Pass
171.816	33.9	1.4	-15.6	19.7	Quasi Max	V	284	245	30	-10.3	Pass
49.436	43.5	0.8	-19.4	24.9	Quasi Max	V	202	338	30	-5.1	Pass

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Page No: 78 of 86

# **B.3 AC Conducted Emissions**

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

#### Measurement Procedure Accordance with ANSI C63.10:2013 section 6.2

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

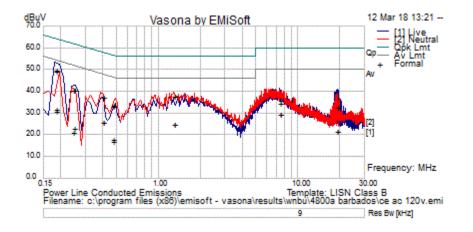
Span:	150 KHz – 30 MHz
Attenuation:	10 dB
Sweep Time:	Coupled
Resolution Bandwidth:	9 KHz
Video Bandwidth:	30 KHz
Detector:	Quasi-Peak / Average

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

Tested By :	Date of testing:
Jose Aguirre	12-Mar-18
Test Result : PASS	

See separate EMC test report for test data.

Page No: 79 of 86



#### **Test Results Table**

Frequency	Raw	Cable	Factors	Level	Measurement	Line	Limit	Margin	Pass /Fail
MHz	dBuV	Loss	dB	dBuV	Туре		dBuV	dB	
0.405	17.1	20.1	0	37.2	Quasi Peak	Live	57.8	-20.6	Pass
0.185	28.4	20.9	0.1	49.3	Quasi Peak	Live	64.2	-14.9	Pass
1.297	17.9	19.9	0	37.9	Quasi Peak	Live	56	-18.1	Pass
0.477	13.4	19.9	0	33.4	Quasi Peak	Live	56.4	-23	Pass
0.25	20.1	20.5	0	40.7	Quasi Peak	Live	61.8	-21.1	Pass
7.45	14	20.1	0.1	34.3	Quasi Peak	Live	60	-25.7	Pass
19.18	12	20.4	0.3	32.7	Quasi Peak	Live	60	-27.3	Pass
0.186	28.6	20.9	0.1	49.5	Quasi Peak	Neutral	64.2	-14.7	Pass
7.445	15.5	20.1	0.1	35.8	Quasi Peak	Neutral	60	-24.2	Pass
0.248	19.7	20.6	0	40.3	Quasi Peak	Neutral	61.8	-21.5	Pass
19.166	11.8	20.4	0.3	32.5	Quasi Peak	Neutral	60	-27.5	Pass
1.297	17.7	19.9	0	37.7	Quasi Peak	Neutral	56	-18.3	Pass
0.405	16.9	20.1	0	37	Quasi Peak	Neutral	57.7	-20.7	Pass
0.478	13.1	19.9	0	33	Quasi Peak	Neutral	56.4	-23.3	Pass
0.405	5.5	20.1	0	25.6	Average	Live	47.8	-22.1	Pass
0.185	10	20.9	0.1	31	Average	Live	54.2	-23.3	Pass
1.297	4.8	19.9	0	24.8	Average	Live	46	-21.2	Pass
0.477	-2	19.9	0	18	Average	Live	46.4	-28.4	Pass
0.25	2.1	20.5	0	22.7	Average	Live	51.8	-29.1	Pass
7.45	8.9	20.1	0.1	29.2	Average	Live	50	-20.8	Pass
19.18	1	20.4	0.3	21.7	Average	Live	50	-28.3	Pass
0.186	10.6	20.9	0.1	31.5	Average	Neutral	54.2	-22.7	Pass
7.445	9.1	20.1	0.1	29.3	Average	Neutral	50	-20.7	Pass
0.248	0.2	20.6	0	20.8	Average	Neutral	51.8	-31	Pass
19.166	0.7	20.4	0.3	21.4	Average	Neutral	50	-28.6	Pass
1.297	4.6	19.9	0	24.6	Average	Neutral	46	-21.4	Pass
0.405	5.4	20.1	0	25.4	Average	Neutral	47.7	-22.3	Pass
0.478	-3.2	19.9	0	16.8	Average	Neutral	46.4	-29.6	Pass

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### Page No: 80 of 86



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Page No: 81 of 86

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

Test Equipment used for Radiated Emissions										
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item					
CIS008447	NSA 10m Chamber Cisco	NSA 10m Chamber	17-Oct-17	17-Oct-18	B.2					
CIS021116	UFB311A-0-3540-520520 Micro-Coax	RF Coaxial Cable, to 18GHz, 354 in	19-Jan-18	19-Jan-19	B.2					
CIS027233	CNE V York	Comparison Noise Emitter	Cal not required		B.2					
CIS032806	JB1 Sunol Sciences	Combination Antenna	7-Jun-17	7-Jun-18	B.2					
CIS037236	50CB-015 JFW	GPIB Control Box	Cal not required		B.2					
CIS041979	1840 Cisco	18-40GHz EMI Test Head/Verification Fixture	30-Aug-17	30-Aug-18	B.2					
CIS043124	Above 1GHz Site Cal Cisco	Above 1GHz Cispr Site Verification	15-Jan-18	15-Jan-19	B.2					
CIS044940	ESU40 Rohde & Schwarz	EMI Test Receiver, 20Hz-40GHz	28-Nov-17	28-Nov-18	B.2					
CIS047410	N9038A Agilent	MXE EMI Receiver 20Hz to 26.5 Ghz	31-Mar-17	31-Mar-18	B.2					
CIS056154	Sucoflex 104PEA Huber + Suhner	RF N-Type cable 2 meter 18GHz	18-Jan-18	18-Jan-19	B.2					
CIS001937	NSA 5m Chamber Cisco	NSA 5m Chamber	6-Feb-18	6-Feb-19	B.1					
CIS007295	NSP1800-25-S1 Miteq	Broadband RF Preamplifier (1.0-18.0GHz,35-40dB)	13-Oct-17	13-Oct-18	B.1					
CIS008024	SF106A Huber + Suhner	3 meter Sucoflex cable	10-Nov-17	10-Nov-18	B.1					
CIS030443	UFB311A-0-1560-520520 Micro-Coax	RF Coaxial Cable, to 18GHz, 156 In.	10-Nov-17	10-Nov-18	B.1					
CIS034075	RSG 2000 Schaffner	Reference Spectrum Generator, 1-18GHz	Cal not required		B.1					
CIS037581	3117 ETS-Lindgren	Double Ridged Waveguide Horn Antenna	7-Dec-17	7-Dec-18	B.1					
CIS041979	1840 Cisco	18-40GHz EMI Test Head/Verification Fixture	30-Aug-17	30-Aug-18	B.1					
CIS042000	E4440A Agilent	Spectrum Analyzer	22-Aug-17	22-Aug-18	B.1					
CIS044940	ESU40 Rohde & Schwarz	EMI Test Receiver, 20Hz-40GHz	28-Nov-17	28-Nov-18	B.1					
CIS049413	iBTHP-5-DB9 Newport	5 inch Temp/RH/Press Sensor w/20ft cable	28-Dec-17	28-Dec-18	B.1					
CIS049535	Above 1GHz Site Cal Cisco	Above 1GHz CISPR Site Validation	7-Feb-18	7-Feb-19	B.1					
CIS055937	Sucoflex 106PA Huber + Suhner	N-Type 8m 18GHz Antenna Cable	10-Nov-17	10-Nov-18	B.1					

Test Equipment used for AC Mains Conducted Emissions						
Equip No	Manufacturer	Model	Description	Last Cal	Next Cal	Test Item

Page No: 82 of 86

45167	Stanley 33-428	8m Tape Measure	Cal not req	Cal not req	В.3
5687	Fluke 73 III	Digital Multimeter	11/1/2017	11/1/2018	В.3
45999	FCC F-090527-1009-2	Lisn Adapter	6/8/2017	6/8/2018	В.3
45050	Rohde & Schwarz ESCI	EMI Test Receiver	11/16/2017	11/16/2018	B.3
45998	FCC F-090527-1009-1	Line Impedance Stabilization Network	6/8/2017	6/8/2018	B.3
37229	Coleman RG-223	25ft BNC cable	4/12/2017	4/12/2018	B.3
49559	Bird 5-T-MB	5W 50 Ohm BNC Termination 4GHz	8/10/2017	8/10/2018	В.3
18963	York CNE V	Comparison Noise Emitter, 30 - 1000MHz	Cal not req	Cal not req	B.3
54228	Newport iBTHP-5-DB9	5 inch Temp/RH/Press Sensor w/20ft cable	2/10/2018	2/10/2019	B.3
46006	FCC F-090527-1009-1	Line Impedance Stabilization Network	6/8/2017	6/8/2018	В.3
8510	FCC FCC-450B-2.4-N	Instrumentation Limiter	5/16/2017	5/16/2018	B.3
46007	FCC F-090527-1009-2	Lisn Adapter	6/8/2017	6/8/2018	B.3
49531	TTE H785-150K-50-21378	High Pass Filter	5/3/2017	5/3/2018	В.3

Page No: 83 of 86

Test Equipment used for RF Conducted Tests					
Equip No	Model Manufacturer	Description	Last Cal	Next Cal	Test Item
CIS053615	N9030A-550 Keysight	PXA Signal Analyzer 50 GHz	4-Apr-17	4-Apr-18	Appendix A
CIS055352	BRC50704-02 Micro-Tronics	Notch Filter 5.42 - 5.725GHz	5-Apr-17	5-Apr-18	Appendix A
CIS055579	BWS20-W2 Aeroflex	SMA 20dB Attenuator	20-Jul-17	20-Jul-18	Appendix A
CIS055577	BWS20-W2 Aeroflex	SMA 20dB Attenuator	20-Jul-17	20-Jul-18	Appendix A
CIS055353	BRC50703-02 Micro-Tronics	Notch Filter 5.15 - 5.35GHz	27-Jul-17	27-Jul-18	Appendix A
CIS055112	BRM50702-02 Micro-Tronics	Reject Band Filter	27-Jul-17	27-Jul-18	Appendix A
CIS054693	BRC50705-02 Micro-Tronics	Band Reject Filter	27-Jul-17	27-Jul-18	Appendix A
CIS054620	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054619	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054617	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054616	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054615	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054614	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054611	RA08-S1S1-12 Megaphase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054610	RA08-S1S1-12 MegaPhase	SMA cable 12"	27-Jul-17	27-Jul-18	Appendix A
CIS054633	F120-S1S1-48 Megaphase	SMA cable 48"	21-Sep-1 7	21-Sep-1 8	Appendix A
CIS054634	F120-S1S1-48 Megaphase	SMA cable 48"	29-Sep-1 7	29-Sep-1 8	Appendix A
CIS055929	SMSM-A2PH-012 Dynawave	12" SMA Cable	23-Oct-17	23-Oct-18	Appendix A
CIS055921	SMSM-A2PH-012 Dynawave	12" SMA Cable	23-Oct-17	23-Oct-18	Appendix A
CIS055868	SMSM-A2PH-024 Dynawave	24" SMA Cable	23-Oct-17	23-Oct-18	Appendix A
CIS055170	RFLT4WDC40GK RF Lambda	4 Way Power Divider 40GHz	22-Dec-1 7	22-Dec-1 8	Appendix A
CIS055872	SMSM-A2PH-024 Dynawave	24" SMA Cable	27-Jul-17	27-Jul-18	Appendix A
CIS055867	SMSM-A2PH-024 Dynawave	24" SMA Cable	27-Jul-17	27-Jul-18	Appendix A

## 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 <sup>3</sup> )
EN	European Norm	MHz	MegaHertz (1x10 <sup>6</sup> )
IEC	International Electro technical Commission	GHz	Gigahertz (1x10 <sup>9</sup> )
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 <sup>3</sup> )
L1	Line 1	μV	Microvolt (1x10 <sup>-6</sup> )
L2	Line2	А	Amp
L3	Line 3	μA	Micro Amp (1x10 <sup>-6</sup> )
DC	Direct Current	mS	Milli Second (1x10 <sup>-3</sup> )
RAW	Uncorrected measurement value, as indicated by the measuring device	μS	Micro Second (1x10 <sup>-6</sup> )
RF	Radio Frequency	μS	Micro Second (1x10 <sup>-6</sup> )
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
Ν	Neutral Line	R	Return
S	Supply	AC	Alternating Current

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Page No: 86 of 86