

Test Report

AIR-AP1832I-B-K9

Cisco Aironet 802.11ac Dual Band Access Points

FCC ID: LDK102098

5470-5725 MHz

Against the following Specifications:

CFR47 Part 15.407



Cisco Systems

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Tested By: TEST ENGINEER

ote L Agrum

Approved By: Jim Nicholson

Title: Technical Leader, Engineering

Revision: 3

This report replaces any previously entered test report under EDCS – **11496964**. This test report has been electronically authorized and archived using the CISCO Engineering Document Control system.



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Section 1: Overview

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

| Specifications: | |
|-------------------|--|
| CFR47 Part 15.407 | |
| | |

Measurements were made in accordance with

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



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:

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

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

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

Humidity 10% to 75*%

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

110V 60 Hz (+/-20%)

Units of Measurement

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

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

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

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

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



Measurement Uncertainty Values

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

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

Radiated emissions (expanded uncertainty, confidence interval 95%)

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

Conducted emissions (expanded uncertainty, confidence interval 95%)

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

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2.2 Date of testing

05-May-16 - 14-Nov-16

2.3 Report Issue Date

17-Nov-16

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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-AP1832I-B-K9



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

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802.11ac - VHT80 Beam Forming, Three Antennas, M0 to M9 1ss 802.11ac - VHT80 Beam Forming, Three Antennas, M0 to M9 2ss

802.11ac - VHT80 STBC, Two Antennas, M0 to M9 2ss 802.11ac - VHT80 STBC, Three Antennas, M0 to M9 2ss

The following antennas are supported by this product series.

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

| Frequency | Part Number | Antenna Type | Antenna Gain (dBi) |
|--------------------------|-------------|--------------|-----------------------|
| 2.4 / 5 GHz 3x3 Internal | | Omni | 3/5 |



Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

| Basic Standard | Technical Requirements / Details | Result |
|--|--|--------|
| FCC 15.407 | 99% & 26 dB Bandwidth: The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW. The 26 dB emission is the width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission. | Pass |
| FCC 15.407 | Output Power: 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 | Power Spectral Density: 15.407 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 | Conducted Spurious Emissions / Band-Edge: 15.407 (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 | TX Spurious Emissions: Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the filed strength limits table in this section. | Pass |
| FCC 15.207 | AC conducted Emissions: Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries. | Pass |

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



Section 4: Sample Details

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

4.1 Sample Details

| Sample No. | Equipment Details | Manufacturer | Hardware Rev. | Firmware Rev. | Software Rev. | Serial Number |
|---------------|-------------------|---------------|------------------|------------------|------------------|------------------|
| S01 | AIR-AP1832I-B-K9 | Cisco Systems | P2 | 8.4.1.10 | AP1G4 Sept22 | RFDP2BHY033 |
| S02* | AIR-PWR-C | Meanwell | A0 | NA | NA | EB46E93226 |

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

4.2 System Details

| System # | Description | Samples |
|----------|------------------|---------|
| 1 | AIR-AP1832I-B-K9 | S01 |
| 2 | AIR-PWR-C | S02 |

4.3 Mode of Operation Details

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

All measurements were made in accordance with

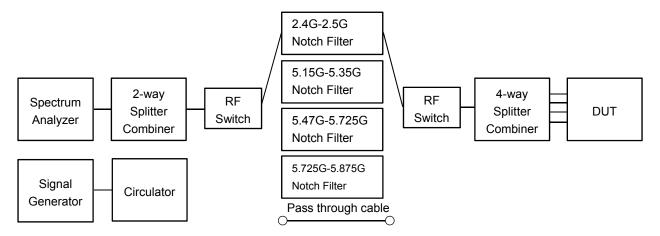
- ANSI C63.10:2013
- KDB 789033 D02 General UNII Test Procedures New Rules v01r03
- KDB 662911 D01 Multiple Transmitter Output v02r01

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Appendix A: Emission Test Results

Conducted Test Setup Diagram



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

| | Maximum Channel Power | | |
|--|-----------------------|------------|------|
| | (dBm) | | _ |
| | Fre | equency (M | Hz) |
| Operating Mode | 5500 | 5560 | 5660 |
| Non HT20, 6 to 54 Mbps | 19 | 19 | 19 |
| Non HT20 Beam Forming, 6 to 54 Mbps | 19 | 19 | 19 |
| HT/VHT20, M0 to M15 | 21 | 20 | 21 |
| HT/VHT20 Beam Forming, M0 to M15 | 21 | 20 | 21 |
| HT/VHT20 STBC, M0 to M7 | 21 | 20 | 21 |
| | 5510 | 5550 | 5670 |
| Non HT40, 6 to 54 Mbps | 19 | 20 | 20 |
| HT/VHT40, M0 to M15 | 19 | 22 | 22 |
| HT/VHT40 Beam Forming, M0 to M15 | 18 | 22 | 22 |
| HT/VHT40 STBC, M0 to M7 | 19 | 22 | 22 |
| | 5530 | 5690 | |
| Non HT80, 6 to 54 Mbps | 18 | 22 | |
| VHT80, M0 to M9, M0 to M9 1-1ss | 19 | 22 | |
| VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss | 19 22 | | |
| VHT80 STBC, M0 to M9 1ss | 19 22 | | |



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 (Figure 4).

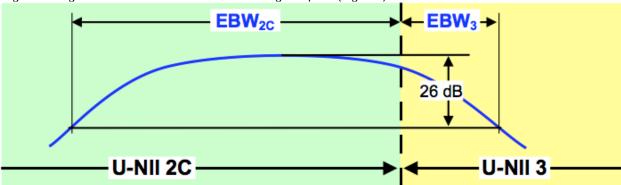


Figure 4. Emission Bandwidth (EBW) within a Band for Band-Crossing Signals

Test Procedure

Ref. ANSI C63.10: 2013 Section 6.9.3

KDB 644545 D03 v01

KDB 789033 D02 General UNII Test Procedures New Rules v01r03

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

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

VBW ≥ 3 x RBW

Detector = Peak or where practical sample shall be used

Trace = Max. Hold

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

| Tested By : | Date of testing: |
|--------------------|-----------------------|
| Jose Aguirre | 05-May-16 - 06-Jun-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment



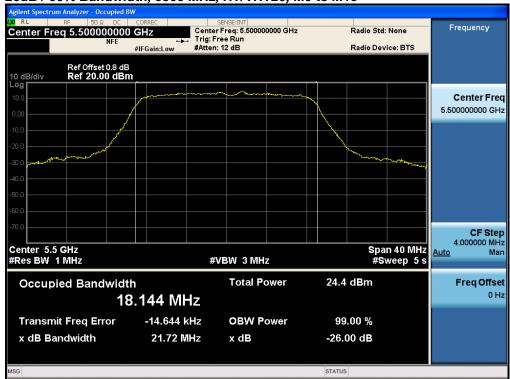
| Non HT20, 6 to 54 Mbps | Frequency (MHz) | Mode | Data Rate (Mbps) | 26dB BW (MHz) | 99% BW (MHz) |
|--|--------------------|---------------------------------|---------------------|------------------|-----------------|
| Non HT40, 6 to 54 Mbps 6 39.7 35.480 | 5500 | Non HT20, 6 to 54 Mbps | 6 | 21.1 | 17.254 |
| HT/VHT40, M0 to M15 | 5500 | HT/VHT20, M0 to M15 | m0 | 21.8 | 18.148 |
| HT/VHT40, M0 to M15 | | | | | |
| Non HT40, 6 to 54 Mbps 6 83.1 75.777 | 5510 | Non HT40, 6 to 54 Mbps | 6 | 39.7 | 35.480 |
| Non HT20, 6 to 54 Mbps 6 39.5 35.425 | 5510 | HT/VHT40, M0 to M15 | m0 | 40.8 | 36.063 |
| Non HT20, 6 to 54 Mbps 6 39.5 35.425 | | | | | |
| Non HT40, 6 to 54 Mbps 6 39.5 35.425 | 5520 | Non HT80, 6 to 54 Mbps | 6 | 83.1 | 75.777 |
| HT/VHT40, M0 to M15 m0 40.5 35.978 | 5530 | VHT80, M0 to M9, M0 to M9 1-1ss | m0x1 | 85.0 | 76.082 |
| HT/VHT40, M0 to M15 m0 40.5 35.978 | | | | | |
| Non HT20, 6 to 54 Mbps 6 21.1 17.199 | 5550 | Non HT40, 6 to 54 Mbps | 6 | 39.5 | 35.425 |
| HT/VHT20, M0 to M15 | 5550 | HT/VHT40, M0 to M15 | m0 | 40.5 | 35.978 |
| HT/VHT20, M0 to M15 | | | | | |
| Non HT20, 6 to 54 Mbps 6 20.9 17.207 | 5500 | Non HT20, 6 to 54 Mbps | 6 | 21.1 | 17.199 |
| HT/VHT20, M0 to M15 m0 21.7 18.130 | 5560 | HT/VHT20, M0 to M15 | m0 | 21.6 | 18.099 |
| HT/VHT20, M0 to M15 m0 21.7 18.130 | | | | | |
| HT/VHT20, M0 to M15 | 5000 | Non HT20, 6 to 54 Mbps | 6 | 20.9 | 17.207 |
| 5670 HT/VHT40, M0 to M15 m0 40.6 35.986 5690 Non HT80, 6 to 54 Mbps 6 82.3 75.441 VHT80, M0 to M9, M0 to M9 1-1ss m0x1 84.4 75.682 5700 Non HT20, 6 to 54 Mbps 6 20.9 17.214 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 5720 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | 9000 | HT/VHT20, M0 to M15 | m0 | 21.7 | 18.130 |
| 5670 HT/VHT40, M0 to M15 m0 40.6 35.986 5690 Non HT80, 6 to 54 Mbps 6 82.3 75.441 VHT80, M0 to M9, M0 to M9 1-1ss m0x1 84.4 75.682 5700 Non HT20, 6 to 54 Mbps 6 20.9 17.214 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 5720 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | | | | | |
| H1/VH140, M0 to M15 | 5670 | Non HT40, 6 to 54 Mbps | 6 | 39.6 | 35.456 |
| 5690 VHT80, M0 to M9, M0 to M9 1-1ss m0x1 84.4 75.682 5700 Non HT20, 6 to 54 Mbps 6 20.9 17.214 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 5720 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | 5670 | HT/VHT40, M0 to M15 | m0 | 40.6 | 35.986 |
| 5690 VHT80, M0 to M9, M0 to M9 1-1ss m0x1 84.4 75.682 5700 Non HT20, 6 to 54 Mbps 6 20.9 17.214 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | | | | | |
| VHT80, M0 to M9, M0 to M9 1-1ss m0x1 84.4 75.682 5700 Non HT20, 6 to 54 Mbps 6 20.9 17.214 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 5720 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | 5000 | Non HT80, 6 to 54 Mbps | 6 | 82.3 | 75.441 |
| 5700 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | 5690 | VHT80, M0 to M9, M0 to M9 1-1ss | m0x1 | 84.4 | 75.682 |
| 5700 HT/VHT20, M0 to M15 m0 21.6 18.104 5710 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | | | | | |
| H1/VH120, M0 to M15 m0 21.6 18.104 Non HT40, 6 to 54 Mbps 6 39.8 35.400 HT/VHT40, M0 to M15 m0 40.5 35.940 Non HT20, 6 to 54 Mbps 6 20.9 17.241 | F700 | Non HT20, 6 to 54 Mbps | 6 | 20.9 | 17.214 |
| Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps 6 20.9 17.241 | 5700 | HT/VHT20, M0 to M15 | m0 | 21.6 | 18.104 |
| Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps 6 20.9 17.241 | | | | | |
| Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps Mon HT20, 6 to 54 Mbps 6 20.9 17.241 | 5740 | Non HT40, 6 to 54 Mbps | 6 | 39.8 | 35.400 |
| 5/20 | 5/10 | | m0 | 40.5 | 35.940 |
| 5/20 | | | | | |
| HT/VHT20, M0 to M15 m0 21.8 18.120 | 5700 | Non HT20, 6 to 54 Mbps | 6 | 20.9 | 17.241 |
| | 5/20 | · | m0 | 21.8 | |



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



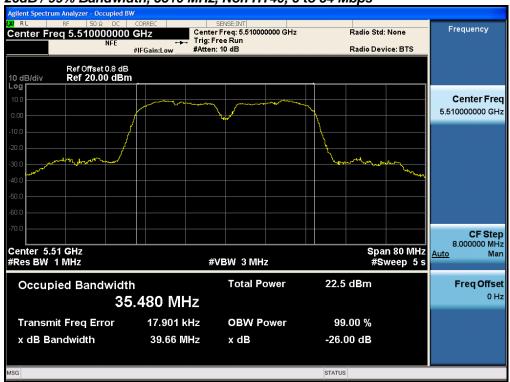
26dB / 99% Bandwidth, 5500 MHz, HT/VHT20, M0 to M15



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26dB / 99% Bandwidth, 5510 MHz, Non HT40, 6 to 54 Mbps



26dB / 99% Bandwidth, 5510 MHz, HT/VHT40, M0 to M15



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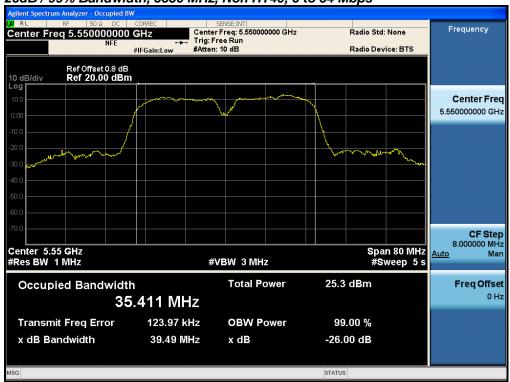
26dB / 99% Bandwidth, 5530 MHz, VHT80, M0 to M9, M0 to M9 1-1ss



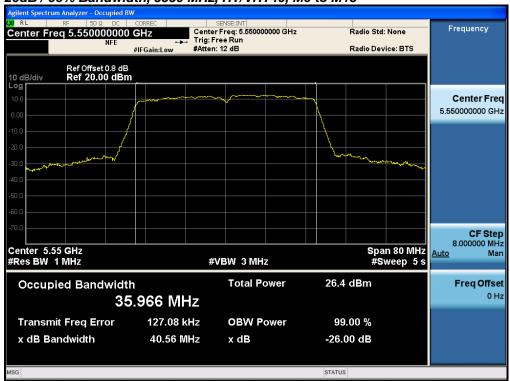
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26dB / 99% Bandwidth, 5550 MHz, HT/VHT40, M0 to M15



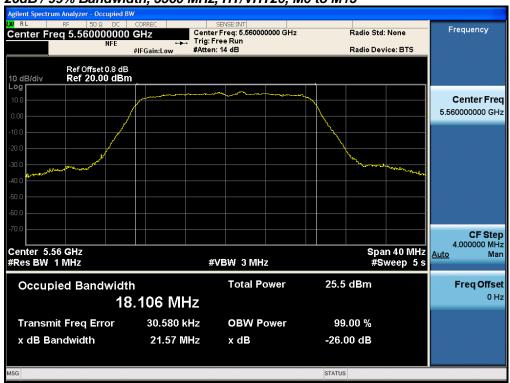
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26dB / 99% Bandwidth, 5560 MHz, Non HT20, 6 to 54 Mbps



26dB / 99% Bandwidth, 5560 MHz, HT/VHT20, M0 to M15



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26dB / 99% Bandwidth, 5660 MHz, Non HT20, 6 to 54 Mbps



26dB / 99% Bandwidth, 5660 MHz, HT/VHT20, M0 to M15



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26dB / 99% Bandwidth, 5670 MHz, Non HT40, 6 to 54 Mbps

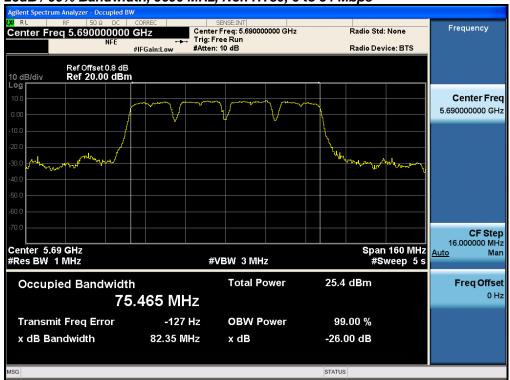


26dB / 99% Bandwidth, 5670 MHz, HT/VHT40, M0 to M15





26dB / 99% Bandwidth, 5690 MHz, Non HT80, 6 to 54 Mbps



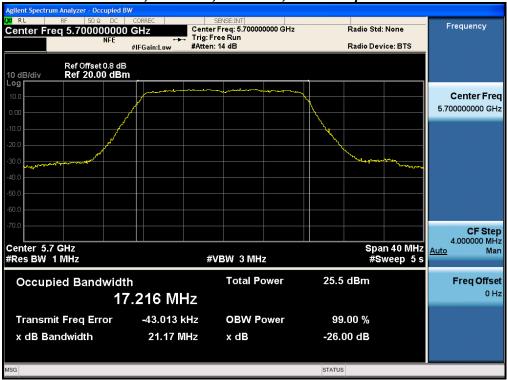
26dB / 99% Bandwidth, 5690 MHz, VHT80, M0 to M9, M0 to M9 1-1ss



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26dB / 99% Bandwidth, 5700 MHz, Non HT20, 6 to 54 Mbps



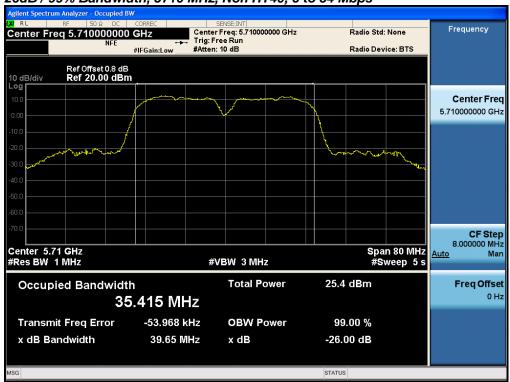
26dB / 99% Bandwidth, 5700 MHz, HT/VHT20, M0 to M15



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26dB / 99% Bandwidth, 5710 MHz, Non HT40, 6 to 54 Mbps



26dB / 99% Bandwidth, 5710 MHz, HT/VHT40, M0 to M15



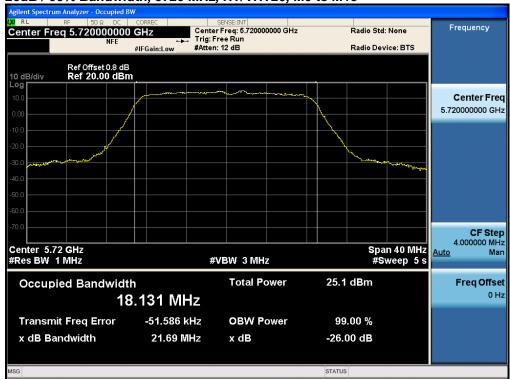
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26dB / 99% Bandwidth, 5720 MHz, HT/VHT20, M0 to M15



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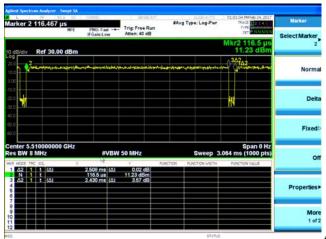


Duty Cycle

EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%)



20MHz Channel plan



40MHz Channel Plan



80MHz Channel plan

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A.2 Maximum Conducted Output Power/ Power Spectral Density

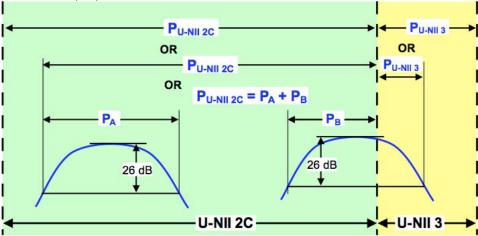
15.407 (2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not 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

Note:

The Intentional Beamforming correlated array gain for any number of space time streams is given by the general formula:

$$G_{bf max} = 10*log10(N_{tx}/N_{sts})$$

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where N_{tx} is the number of equal power active transmit antennas and N_{sts} is the number of active space time streams.

The maximum unintentional correlation gain (G_{max}) can be shown to be less than or equal to $G_{max} = 10*log10(N_{tx}/N_{sts})$

for all points in space, where N_{tx} is the number of active transmit antennas and N_{sts} is the number of space time streams. This formulation is general and can be applied to all non-beamforming modes.

Whenever the number of space-time streams (N_{sts}) is equal to the number of active transmitters (N_{tx}) the spatial expansion is the Identity matrix and therefore the streams are independently sent by each antenna. For these modes the correlation gain will be zero.

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

Ref. KDB 789033 D02 General UNII Test Procedures New Rules v01r03 ANSI C63.10: 2013 KDB 644545 D03 v01

Output Power

Test Procedure

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

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

Output Power Test parameters

Span = >1.5 times the OBW

RBW = 1MHz

VBW ≥ 3 x RBW

Sweep = Auto couple

Detector = sample

Trace = Trace Average 100

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

| Power Spectral Density (UNII 2C band) | Power Spectral Density (UNII 3 band) |
|---|--------------------------------------|
| Test parameters | Test parameters |
| ANSI C63.10: 2013 , sec12.3.2.2 Method SA-1 | KDB 789033 D02 v01 section F.5 |
| Span = >1.5 times the OBW | Span = >1.5 times the OBW |
| RBW = 1MHz | RBW = 500 kHz. |
| VBW ≥ 3 x RBW | VBW ≥ 3 x RBW |
| Sweep = Auto couple | Sweep = 10s |
| Detector = Sample | Detector = Peak |
| Trace = Trace Average 100 | Trace = Single Sweep |
| Marker = Peak Search | Marker = Peak Search |

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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 |
|------------------|-------------|---------|-------------------|-------------------|
| 4 | EUT | S01 | K | |
| 1 | Support | S02 | | \checkmark |

| Tested By : | Date of testing: |
|--------------------|-----------------------|
| Jose Aguirre | 05-May-16 - 06-Jun-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment

Radio Test Report No: EDCS - 11496964



Rather Than Measure:

- The portion of the signal in the UNII-2C Band , 250 mW or 11 dBm+ 10 log B power / 11dBm/MHz PSD

 The portion of the signal in the UNII-3 Band , 36dBm EIRP power / 30dBm/500kHz PSD

If the band crossing waveforms are typical , then doing the calculations across the full signal bandwidth and comparing it to the lower (UNII-2C) limit should meet our requirements. The only time the band crossing waveforms need to do individual calculations is when they can not meet the more restrictive limit

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Maximum Output Power

| | Maximum Output Power | | | | | | | | |
|-----------------|-------------------------------------|----------|----------------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|-------------|-------------|
| Frequency (MHz) | Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Max Power (dBm) | Tx 2 Max Power (dBm) | Tx 3 Max Power (dBm) | Total Tx Channel Power (dBm) | Limit (dBm) | Margin (dB) |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | 15.9 | | | 15.9 | 23.4 | 7.5 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | 15.9 | 15.6 | | 18.8 | 23.4 | 4.6 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | 12.1 | 11.5 | 12.6 | 16.9 | 23.4 | 6.5 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 15.9 | 15.6 | | 18.8 | 21.4 | 2.6 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 12.1 | 11.5 | 12.6 | 16.9 | 19.4 | 2.5 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 15.6 | | | 15.6 | 23.6 | 8.0 |
| | HT/VHT20, M0 to M7 | 2 | 5 | 15.6 | 15.3 | | 18.5 | 23.6 | 5.1 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | 15.6 | 15.3 | | 18.5 | 23.6 | 5.1 |
| 55 | HT/VHT20, M0 to M7 | 3 | 5 | 12.7 | 12.3 | 13.4 | 17.6 | 23.6 | 6.0 |
| | HT/VHT20, M8 to M15 | 3 | 5 | 15.6 | 15.3 | 16.4 | 20.6 | 23.6 | 3.0 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 15.6 | 15.3 | | 18.5 | 21.6 | 3.1 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 15.6 | 15.3 | | 18.5 | 23.6 | 5.1 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 12.7 | 12.3 | 13.4 | 17.6 | 19.6 | 2.0 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 15.6 | 15.3 | 16.4 | 20.6 | 22.6 | 2.0 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 15.6 | 15.3 | | 18.5 | 23.6 | 5.1 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | 15.6 | 15.3 | 16.4 | 20.6 | 23.6 | 3.0 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 14.1 | | | 14.1 | 24.0 | 9.9 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | 14.1 | 13.6 | | 16.9 | 24.0 | 7.1 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | 13.1 | 12.6 | 13.7 | 17.9 | 24.0 | 6.1 |
| | HT/VHT40, M0 to M7 | 1 | 5 | 15.6 | | | 15.6 | 24.0 | 8.4 |
| | HT/VHT40, M0 to M7 | 2 | 5 | 14.6 | 14.1 | | 17.4 | 24.0 | 6.6 |
| | HT/VHT40, M8 to M15 | 2 | 5 | 14.6 | 14.1 | | 17.4 | 24.0 | 6.6 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | 13.7 | 13.1 | 14.2 | 18.5 | 24.0 | 5.5 |
| 551 | HT/VHT40, M8 to M15 | 3 | 5 | 13.7 | 13.1 | 14.2 | 18.5 | 24.0 | 5.5 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 13.7 | 13.1 | | 16.4 | 22.0 | 5.6 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 14.6 | 14.1 | | 17.4 | 24.0 | 6.6 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 10.6 | 10.0 | 10.9 | 15.3 | 20.0 | 4.7 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 12.7 | 12.1 | 13.1 | 17.4 | 23.0 | 5.6 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 14.6 | 14.1 | | 17.4 | 24.0 | 6.6 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | 13.7 | 13.1 | 14.2 | 18.5 | 24.0 | 5.5 |

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| - | Non HT80, 6 to 54 Mbps | 1 | | 117 | | | 4 4 - | | |
|------|-------------------------------------|---|----|------|------|------|-------|------|-----|
| | | | 5 | 14.7 | | | 14.7 | 24.0 | 9.3 |
| - | Non HT80, 6 to 54 Mbps | 2 | 5 | 14.7 | 14.0 | | 17.4 | 24.0 | 6.6 |
| L | Non HT80, 6 to 54 Mbps | 3 | 5 | 12.7 | 11.9 | 12.8 | 17.3 | 24.0 | 6.7 |
| L | VHT80, M0 to M9 1ss | 1 | 5 | 15.1 | | | 15.1 | 24.0 | 8.9 |
| L | VHT80, M0 to M9 1ss | 2 | 5 | 15.1 | 14.5 | | 17.8 | 24.0 | 6.2 |
| | VHT80, M0 to M9 2ss | 2 | 5 | 15.1 | 14.5 | | 17.8 | 24.0 | 6.2 |
| 5530 | VHT80, M0 to M9 1ss | 3 | 5 | 14.1 | 13.5 | 14.4 | 18.8 | 24.0 | 5.2 |
| 55 | VHT80, M0 to M9 2ss | 3 | 5 | 14.1 | 13.5 | 14.4 | 18.8 | 24.0 | 5.2 |
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | 14.1 | 13.5 | | 16.8 | 22.0 | 5.2 |
| L | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | 15.1 | 14.5 | | 17.8 | 24.0 | 6.2 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | 10.1 | 9.5 | 10.1 | 14.7 | 20.0 | 5.3 |
| L | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | 12.2 | 11.4 | 12.3 | 16.8 | 23.0 | 6.2 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | 15.1 | 14.5 | | 17.8 | 24.0 | 6.2 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | 14.1 | 13.5 | 14.4 | 18.8 | 24.0 | 5.2 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 17.1 | | | 17.1 | 24.0 | 6.9 |
| L | Non HT40, 6 to 54 Mbps | 2 | 5 | 17.1 | 16.5 | | 19.8 | 24.0 | 4.2 |
| L | Non HT40, 6 to 54 Mbps | 3 | 5 | 14.0 | 13.4 | 14.2 | 18.7 | 24.0 | 5.3 |
| L | HT/VHT40, M0 to M7 | 1 | 5 | 17.6 | | | 17.6 | 24.0 | 6.4 |
| | HT/VHT40, M0 to M7 | 2 | 5 | 17.6 | 17.0 | | 20.3 | 24.0 | 3.7 |
| L | HT/VHT40, M8 to M15 | 2 | 5 | 17.6 | 17.0 | | 20.3 | 24.0 | 3.7 |
| 5550 | HT/VHT40, M0 to M7 | 3 | 5 | 15.6 | 14.9 | 15.8 | 20.2 | 24.0 | 3.8 |
| 55 | HT/VHT40, M8 to M15 | 3 | 5 | 17.6 | 17.0 | 17.7 | 22.2 | 24.0 | 1.8 |
| L | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 17.6 | 17.0 | | 20.3 | 22.0 | 1.7 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 17.6 | 17.0 | | 20.3 | 24.0 | 3.7 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 14.5 | 13.9 | 14.7 | 19.2 | 20.0 | 8.0 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 17.6 | 17.0 | 17.7 | 22.2 | 23.0 | 8.0 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 17.6 | 17.0 | | 20.3 | 24.0 | 3.7 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | 17.6 | 17.0 | 17.7 | 22.2 | 24.0 | 1.8 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | 17.1 | | | 17.1 | 23.4 | 6.3 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | 16.1 | 15.5 | | 18.8 | 23.4 | 4.6 |
| L | Non HT20, 6 to 54 Mbps | 3 | 5 | 12.1 | 11.4 | 12.1 | 16.7 | 23.4 | 6.7 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 16.1 | 15.5 | | 18.8 | 21.4 | 2.6 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 12.1 | 11.4 | 12.1 | 16.7 | 19.4 | 2.7 |
| 。[| HT/VHT20, M0 to M7 | 1 | 5 | 16.8 | | | 16.8 | 23.6 | 6.8 |
| 5560 | HT/VHT20, M0 to M7 | 2 | 5 | 16.8 | 16.3 | | 19.6 | 23.6 | 4.0 |
| 4) | HT/VHT20, M8 to M15 | 2 | 5 | 16.8 | 16.3 | | 19.6 | 23.6 | 4.0 |
| | HT/VHT20, M0 to M7 | 3 | 5 | 12.9 | 12.2 | 13.0 | 17.5 | 23.6 | 6.1 |
| | HT/VHT20, M8 to M15 | 3 | 5 | 15.8 | 15.2 | 16.0 | 20.5 | 23.6 | 3.1 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 16.8 | 16.3 | | 19.6 | 21.6 | 2.0 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 16.8 | 16.3 | | 19.6 | 23.6 | 4.0 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 12.9 | 12.2 | 13.0 | 17.5 | 19.6 | 2.1 |

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| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 15.8 | 15.2 | 16.0 | 20.5 | 22.6 | 2.1 |
|------|-------------------------------------|---|----|------|------|------|------|------|-----|
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 16.8 | 16.3 | | 19.6 | 23.6 | 4.0 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | 15.8 | 15.2 | 16.0 | 20.5 | 23.6 | 3.1 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | 16.8 | | | 16.8 | 23.4 | 6.6 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | 16.8 | 15.9 | | 19.4 | 23.4 | 4.0 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | 12.7 | 11.9 | 13.1 | 17.4 | 23.4 | 6.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 16.8 | 15.9 | | 19.4 | 21.4 | 2.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 12.7 | 11.9 | 13.1 | 17.4 | 19.4 | 2.0 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 16.4 | | | 16.4 | 23.6 | 7.2 |
| | HT/VHT20, M0 to M7 | 2 | 5 | 16.4 | 15.6 | | 19.0 | 23.6 | 4.6 |
| 09 | HT/VHT20, M8 to M15 | 2 | 5 | 16.4 | 15.6 | | 19.0 | 23.6 | 4.6 |
| 5660 | HT/VHT20, M0 to M7 | 3 | 5 | 12.4 | 11.5 | 12.7 | 17.0 | 23.6 | 6.6 |
| | HT/VHT20, M8 to M15 | 3 | 5 | 16.4 | 15.6 | 16.8 | 21.1 | 23.6 | 2.5 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 16.4 | 15.6 | | 19.0 | 21.6 | 2.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 16.4 | 15.6 | | 19.0 | 23.6 | 4.6 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 12.4 | 11.5 | 12.7 | 17.0 | 19.6 | 2.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 16.4 | 15.6 | 16.8 | 21.1 | 22.6 | 1.5 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 16.4 | 15.6 | | 19.0 | 23.6 | 4.6 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | 16.4 | 15.6 | 16.8 | 21.1 | 23.6 | 2.5 |
| | · | | , | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 17.0 | | | 17.0 | 24.0 | 7.0 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | 17.0 | 16.4 | | 19.7 | 24.0 | 4.3 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | 14.0 | 13.3 | 14.6 | 18.8 | 24.0 | 5.2 |
| | HT/VHT40, M0 to M7 | 1 | 5 | 17.4 | | | 17.4 | 24.0 | 6.6 |
| | HT/VHT40, M0 to M7 | 2 | 5 | 17.4 | 16.8 | | 20.1 | 24.0 | 3.9 |
| | HT/VHT40, M8 to M15 | 2 | 5 | 17.4 | 16.8 | | 20.1 | 24.0 | 3.9 |
| 2 | HT/VHT40, M0 to M7 | 3 | 5 | 15.5 | 14.8 | 16.1 | 20.3 | 24.0 | 3.7 |
| 5670 | HT/VHT40, M8 to M15 | 3 | 5 | 17.4 | 16.8 | 18.1 | 22.2 | 24.0 | 1.8 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 17.4 | 16.8 | | 20.1 | 22.0 | 1.9 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 17.4 | 16.8 | | 20.1 | 24.0 | 3.9 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 14.5 | 13.7 | 15.1 | 19.2 | 20.0 | 0.8 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 17.4 | 16.8 | 18.1 | 22.2 | 23.0 | 0.8 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 17.4 | 16.8 | | 20.1 | 24.0 | 3.9 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | 17.4 | 16.8 | 18.1 | 22.2 | 24.0 | 1.8 |
| | | | | | | | | | |
| | Non HT80, 6 to 54 Mbps | 1 | 5 | 17.2 | | | 17.2 | 24.0 | 6.8 |
| | Non HT80, 6 to 54 Mbps | 2 | 5 | 17.2 | 17.0 | | 20.1 | 24.0 | 3.9 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | 17.2 | 17.0 | 17.9 | 22.2 | 24.0 | 1.8 |
| 5690 | VHT80, M0 to M9 1ss | 1 | 5 | 16.7 | | | 16.7 | 24.0 | 7.3 |
| 5 | VHT80, M0 to M9 1ss | 2 | 5 | 16.7 | 16.4 | | 19.6 | 24.0 | 4.4 |
| | VHT80, M0 to M9 2ss | 2 | 5 | 16.7 | 16.4 | | 19.6 | 24.0 | 4.4 |
| | VHT80, M0 to M9 1ss | 3 | 5 | 16.7 | 16.4 | 17.5 | 21.7 | 24.0 | 2.3 |
| | , | | _ | | | | | | |

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| | VHT80, M0 to M9 2ss | 3 | 5 | 16.7 | 16.4 | 17.5 | 21.7 | 24.0 | 2.3 |
|------|-------------------------------------|---|----|------|------|------|------|------|-----|
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | 16.7 | 16.4 | | 19.6 | 22.0 | 2.4 |
| | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | 16.7 | 16.4 | | 19.6 | 24.0 | 4.4 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | 14.7 | 14.3 | 15.4 | 19.6 | 20.0 | 0.4 |
| | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | 16.7 | 16.4 | 17.5 | 21.7 | 23.0 | 1.3 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | 16.7 | 16.4 | | 19.6 | 24.0 | 4.4 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | 16.7 | 16.4 | 17.5 | 21.7 | 24.0 | 2.3 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | 17.1 | | | 17.1 | 23.4 | 6.3 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | 16.1 | 15.8 | | 19.0 | 23.4 | 4.4 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | 11.9 | 11.9 | 12.8 | 17.0 | 23.4 | 6.4 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 16.1 | 15.8 | | 19.0 | 21.4 | 2.4 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 11.9 | 11.9 | 12.8 | 17.0 | 19.4 | 2.4 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 16.7 | | | 16.7 | 23.6 | 6.9 |
| | HT/VHT20, M0 to M7 | 2 | 5 | 16.7 | 16.7 | | 19.7 | 23.6 | 3.9 |
| 5700 | HT/VHT20, M8 to M15 | 2 | 5 | 16.7 | 16.7 | | 19.7 | 23.6 | 3.9 |
| 57 | HT/VHT20, M0 to M7 | 3 | 5 | 12.8 | 12.6 | 13.6 | 17.8 | 23.6 | 5.8 |
| | HT/VHT20, M8 to M15 | 3 | 5 | 15.8 | 15.6 | 16.6 | 20.8 | 23.6 | 2.8 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 16.7 | 16.7 | | 19.7 | 21.6 | 1.9 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 16.7 | 16.7 | | 19.7 | 23.6 | 3.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 12.8 | 12.6 | 13.6 | 17.8 | 19.6 | 1.8 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 15.8 | 15.6 | 16.6 | 20.8 | 22.6 | 1.8 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 16.7 | 16.7 | | 19.7 | 23.6 | 3.9 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | 15.8 | 15.6 | 16.6 | 20.8 | 23.6 | 2.8 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 17.1 | | | 17.1 | 24.0 | 6.9 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | 17.1 | 17.3 | | 20.2 | 24.0 | 3.8 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | 14.0 | 14.2 | 15.0 | 19.2 | 24.0 | 4.8 |
| | HT/VHT40, M0 to M7 | 1 | 5 | 17.6 | | | 17.6 | 24.0 | 6.4 |
| | HT/VHT40, M0 to M7 | 2 | 5 | 17.6 | 17.8 | | 20.7 | 24.0 | 3.3 |
| | HT/VHT40, M8 to M15 | 2 | 5 | 17.6 | 17.8 | | 20.7 | 24.0 | 3.3 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | 14.5 | 14.7 | 15.5 | 19.7 | 24.0 | 4.3 |
| 5710 | HT/VHT40, M8 to M15 | 3 | 5 | 17.6 | 17.8 | 18.4 | 22.7 | 24.0 | 1.3 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 17.6 | 17.8 | | 20.7 | 22.0 | 1.3 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 17.6 | 17.8 | | 20.7 | 24.0 | 3.3 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 14.5 | 14.7 | 15.5 | 19.7 | 20.0 | 0.3 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 17.6 | 17.8 | 18.4 | 22.7 | 23.0 | 0.3 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 17.6 | 17.8 | | 20.7 | 24.0 | 3.3 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | 17.6 | 17.8 | 18.4 | 22.7 | 24.0 | 1.3 |
| | , | | | | | | | | |



| | Non HT20, 6 to 54 Mbps | 1 | 5 | 16.7 | | | 16.7 | 23.4 | 6.7 |
|----|-------------------------------------|---|----|------|------|------|------|------|-----|
| | Non HT20, 6 to 54 Mbps | 2 | 5 | 15.7 | 16.0 | | 18.9 | 23.4 | 4.5 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | 11.6 | 12.1 | 12.2 | 16.7 | 23.4 | 6.7 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 15.7 | 16.0 | | 18.9 | 21.4 | 2.5 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 11.6 | 12.1 | 12.2 | 16.7 | 19.4 | 2.7 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 16.4 | | | 16.4 | 23.6 | 7.2 |
| | HT/VHT20, M0 to M7 | 2 | 5 | 16.4 | 16.8 | | 19.6 | 23.6 | 4.0 |
| 20 | HT/VHT20, M8 to M15 | 2 | 5 | 16.4 | 16.8 | | 19.6 | 23.6 | 4.0 |
| 57 | HT/VHT20, M0 to M7 | 3 | 5 | 12.4 | 12.8 | 13.0 | 17.5 | 23.6 | 6.1 |
| | HT/VHT20, M8 to M15 | 3 | 5 | 15.5 | 15.7 | 16.0 | 20.5 | 23.6 | 3.1 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 16.4 | 16.8 | | 19.6 | 21.6 | 2.0 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 16.4 | 16.8 | | 19.6 | 23.6 | 4.0 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 12.4 | 12.8 | 13.0 | 17.5 | 19.6 | 2.1 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 15.5 | 15.7 | 16.0 | 20.5 | 22.6 | 2.1 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 16.4 | 16.8 | | 19.6 | 23.6 | 4.0 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | 15.5 | 15.7 | 16.0 | 20.5 | 23.6 | 3.1 |

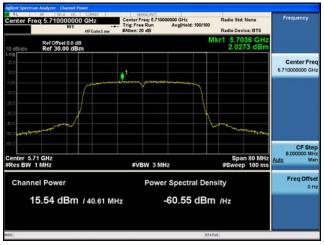


Maximum Transmit Output Power, 5710 MHz, HT/VHT40 Beam Forming, M0 to M7



Antenna A

Antenna B



Antenna C



Power Spectral Density

| | 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) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Margin (dB) |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | 5.2 | | | 5.2 | 11.0 | 5.8 |
| | Non HT20, 6 to 54 Mbps | 2 | 8 | 5.2 | 5.1 | | 8.2 | 9.0 | 0.8 |
| | Non HT20, 6 to 54 Mbps | 3 | 10 | 1.3 | 0.7 | 2.1 | 6.2 | 7.0 | 0.8 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 5.2 | 5.1 | | 8.2 | 9.0 | 0.8 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 1.3 | 0.7 | 2.1 | 6.2 | 7.0 | 0.8 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 4.6 | | | 4.6 | 11.0 | 6.4 |
| | HT/VHT20, M0 to M7 | 2 | 8 | 4.6 | 4.4 | | 7.5 | 9.0 | 1.5 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | 4.6 | 4.4 | | 7.5 | 11.0 | 3.5 |
| 55 | HT/VHT20, M0 to M7 | 3 | 10 | 1.7 | 1.4 | 2.7 | 6.7 | 7.0 | 0.3 |
| | HT/VHT20, M8 to M15 | 3 | 7 | 4.6 | 4.4 | 5.6 | 9.7 | 10.0 | 0.3 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 4.6 | 4.4 | | 7.5 | 9.0 | 1.5 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 4.6 | 4.4 | | 7.5 | 11.0 | 3.5 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 1.7 | 1.4 | 2.7 | 6.7 | 7.0 | 0.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 4.6 | 4.4 | 5.6 | 9.7 | 10.0 | 0.3 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 4.6 | 4.4 | | 7.5 | 11.0 | 3.5 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 7 | 4.6 | 4.4 | 5.6 | 9.7 | 10.0 | 0.3 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 1.5 | | | 1.5 | 11.0 | 9.5 |
| | Non HT40, 6 to 54 Mbps | 2 | 8 | 1.5 | 1.1 | | 4.3 | 9.0 | 4.7 |
| | Non HT40, 6 to 54 Mbps | 3 | 10 | 1.5 | 1.1 | 2.3 | 6.4 | 7.0 | 0.6 |
| | HT/VHT40, M0 to M7 | 1 | 5 | 1.6 | | | 1.6 | 11.0 | 9.4 |
| | HT/VHT40, M0 to M7 | 2 | 8 | 0.8 | 0.5 | | 3.7 | 9.0 | 5.3 |
| | HT/VHT40, M8 to M15 | 2 | 5 | 8.0 | 0.5 | | 3.7 | 11.0 | 7.3 |
| 5510 | HT/VHT40, M0 to M7 | 3 | 10 | 0.8 | 0.5 | 1.4 | 5.7 | 7.0 | 1.3 |
| 55 | HT/VHT40, M8 to M15 | 3 | 7 | 0.8 | 0.5 | 1.4 | 5.7 | 10.0 | 4.3 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -0.4 | -0.7 | | 2.5 | 9.0 | 6.5 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 0.8 | 0.5 | | 3.7 | 11.0 | 7.3 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -2.1 | -2.9 | -1.8 | 2.5 | 7.0 | 4.5 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -0.4 | -0.7 | 0.4 | 4.6 | 10.0 | 5.4 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 0.8 | 0.5 | | 3.7 | 11.0 | 7.3 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 7 | 0.8 | 0.5 | 1.4 | 5.7 | 10.0 | 4.3 |

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| | Non HT80, 6 to 54 Mbps | 1 | 5 | -1.2 | | | -1.2 | 11.0 | 12.2 |
|------|---|---|--------|--------------|--------------|------|------------|--------------|------------|
| | | 2 | 8 | -1.2 | 1.4 | | 1.7 | 9.0 | 7.3 |
| | Non HT80, 6 to 54 Mbps | 3 | 10 | -1.2 | -1.4 -2.6 | 2.5 | 2.4 | 7.0 | 4.6 |
| | Non HT80, 6 to 54 Mbps VHT80, M0 to M9 1ss | 1 | 5 | -1.9 | -2.0 | -2.5 | -1.2 | 11.0 | 12.2 |
| | VHT80, M0 to M9 1ss | 2 | 8 | -1.2 | -1.8 | | 1.5 | 9.0 | 7.5 |
| | VHT80, M0 to M9 1ss | 2 | 5 | -1.2 | -1.8 | | 1.5 | 11.0 | 9.5 |
| 0 | VHT80, M0 to M9 2ss VHT80, M0 to M9 1ss | 3 | 10 | -1.2 | -2.5 | -2.7 | 2.1 | 7.0 | 4.9 |
| 5530 | VHT80, M0 to M9 1ss | 3 | 7 | -2.7 | -2.5 | -2.7 | 2.1 | 10.0 | 7.9 |
| 4) | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -2.7 | -2.5 | -2.1 | 0.4 | 9.0 | 8.6 |
| | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -1.2 | -2.5 | | 1.5 | 11.0 | 9.5 |
| | | 3 | 10 | -4.0 | -4.5 | -4.7 | 0.4 | 7.0 | 6.6 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | | | | | | | |
| | VHT80 Beam Forming, M0 to M9 2ss VHT80 STBC, M0 to M9 1ss | 2 | 7 5 | -2.7 -1.2 | -2.5 -1.8 | -2.7 | 2.1 1.5 | 10.0 11.0 | 7.9 9.5 |
| | | 3 | 5 | | | 2.7 | | | |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -2.7 | -2.5 | -2.7 | 2.1 | 11.0 | 8.9 |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | 4.7 | | | 4.7 | 11.0 | 6.3 |
| | Non HT40, 6 to 54 Mbps | 2 | 8 | 4.7 | 4.4 | | 7.6 | 9.0 | 1.4 |
| | Non HT40, 6 to 54 Mbps | 3 | 10 | 1.7 | 1.2 | 1.7 | 6.3 | 7.0 | 0.7 |
| | HT/VHT40, M0 to M7 | 1 | 5 | 4.1 | | | 4.1 | 11.0 | 6.9 |
| | HT/VHT40, M0 to M7 | 2 | 8 | 4.1 | 3.5 | | 6.8 | 9.0 | 2.2 |
| | HT/VHT40, M8 to M15 | 2 | 5 | 4.1 | 3.5 | | 6.8 | 11.0 | 4.2 |
| 00 | HT/VHT40, M0 to M7 | 3 | 10 | 2.0 | 1.7 | 2.4 | 6.8 | 7.0 | 0.2 |
| 5550 | HT/VHT40, M8 to M15 | 3 | 7 | 4.1 | 3.5 | 4.3 | 8.8 | 10.0 | 1.2 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 4.1 | 3.5 | - | 6.8 | 9.0 | 2.2 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 4.1 | 3.5 | | 6.8 | 11.0 | 4.2 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 1.1 | 0.5 | 1.2 | 5.7 | 7.0 | 1.3 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 4.1 | 3.5 | 4.3 | 8.8 | 10.0 | 1.2 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 4.1 | 3.5 | | 6.8 | 11.0 | 4.2 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 7 | 4.1 | 3.5 | 4.3 | 8.8 | 10.0 | 1.2 |
| | | | | | | | | | |
| | 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 | 4.8 | | 8.0 | 9.0 | 1.0 |
| | Non HT20, 6 to 54 Mbps | 3 | 10 | 1.5 | 0.9 | 1.6 | 6.1 | 7.0 | 0.9 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 5.2 | 4.8 | | 8.0 | 9.0 | 1.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 1.5 | 0.9 | 1.6 | 6.1 | 7.0 | 0.9 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 6.0 | | | 6.0 | 11.0 | 5.0 |
| 5560 | HT/VHT20, M0 to M7 | 2 | 8 | 6.0 | 5.5 | | 8.8 | 9.0 | 0.2 |
| 5 | HT/VHT20, M8 to M15 | 2 | 5 | 6.0 | 5.5 | | 8.8 | 11.0 | 2.2 |
| | HT/VHT20, M0 to M7 | 3 | 10 | 2.1 | 1.3 | 2.2 | 6.7 | 7.0 | 0.3 |
| | HT/VHT20, M8 to M15 | 3 | 7 | 5.1 | 4.5 | 5.4 | 9.8 | 10.0 | 0.2 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 6.0 | 5.5 | | 8.8 | 9.0 | 0.2 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 6.0 | 5.5 | | 8.8 | 11.0 | 2.2 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 2.1 | 1.3 | 2.2 | 6.7 | 7.0 | 0.3 |

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| HTV/HT20 STBC, M0 to M7 1 | | | | | | | | | | |
|--|-----|-------------------------------------|---|----|-----|------|-----|------|------|------|
| Non HT20, 6 to 54 Mbps | | | _ | | | | 5.4 | | | |
| Non HT20, 6 to 54 Mbps | | HT/VHT20 STBC, M0 to M7 | _ | 5 | 6.0 | 5.5 | | 8.8 | 11.0 | 2.2 |
| Non HT20, 6 to 54 Mbps | | HT/VHT20 STBC, M0 to M7 | 3 | 7 | 5.1 | 4.5 | 5.4 | 9.8 | 10.0 | 0.2 |
| Non HT20, 6 to 54 Mbps | | | | | | | | | | |
| Non HT20, 6 to 54 Mbps | | Non HT20, 6 to 54 Mbps | 1 | 5 | 6.5 | | | 6.5 | 11.0 | 4.5 |
| Non HT20 Beam Forming, 6 to 54 Mbps 2 8 6.5 5.3 9.0 9.0 0.0 | | Non HT20, 6 to 54 Mbps | 2 | 8 | 6.5 | 5.3 | | 9.0 | 9.0 | 0.0 |
| Non HT20 Beam Forming, 6 to 54 Mbps | | Non HT20, 6 to 54 Mbps | 3 | 10 | 1.9 | 1.1 | 2.3 | 6.6 | 7.0 | 0.4 |
| HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20, M8 to M15 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M10 to M7 HT/V | | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 6.5 | 5.3 | | 9.0 | 9.0 | 0.0 |
| HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, | | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 1.9 | 1.1 | 2.3 | 6.6 | 7.0 | 0.4 |
| HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, M0 to 54 Mbps HT/VHT40, M0 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40, M0 to M9 to S HT/VHT80, M0 to M9 to S HT/VHT80, M0 to M9 to S HT/WH80, M0 to M9 to S | | HT/VHT20, M0 to M7 | 1 | 5 | 5.5 | | | 5.5 | 11.0 | 5.5 |
| HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 STBC, M0 to M9 to M15 HT/VHT80, M0 to M9 1ss HT/VHT80, M0 to M9 1ss HT/HT80, M0 to M9 2ss | | HT/VHT20, M0 to M7 | 2 | 8 | 5.5 | 4.5 | | 8.0 | 9.0 | 1.0 |
| HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 STBC, M0 to M9 to M15 HT/VHT80, M0 to M9 1ss HT/VHT80, M0 to M9 1ss HT/HT80, M0 to M9 2ss | 09 | HT/VHT20, M8 to M15 | 2 | 5 | 5.5 | 4.5 | | 8.0 | 11.0 | 3.0 |
| HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 Non HT40, 6 to 54 Mbps Non HT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M9 lss HT/VHT80, M0 to M9 lss HT/H80, M0 to M9 lss | 56 | HT/VHT20, M0 to M7 | 3 | 10 | 1.8 | 0.7 | 1.9 | 6.3 | 7.0 | 0.7 |
| HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 2 5 5.5 4.5 5.6 10.0 10.0 0.0 HT/VHT20 STBC, M0 to M7 2 5 5.5 4.5 5.6 10.0 10.0 0.0 HT/VHT20 STBC, M0 to M7 3 7 5.5 4.5 5.6 10.0 10.0 0.0 Non HT40, 6 to 54 Mbps 1 5 4.5 4.5 5.6 10.0 10.0 0.0 Non HT40, 6 to 54 Mbps 2 8 4.5 3.7 7.1 9.0 1.9 Non HT40, 6 to 54 Mbps 3 10 1.7 0.8 2.6 6.5 7.0 0.5 HT/VHT40, M0 to M7 1 5 3.9 3.1 6.5 9.0 2.5 HT/VHT40, M0 to M7 1 5 3.9 3.1 6.5 9.0 2.5 HT/VHT40, M8 to M15 HT/VHT40, M8 to M15 1 1 2 5 3.9 3.1 6.5 11.0 4.5 HT/VHT40 Beam Forming, M0 to M7 2 8 3.9 3.1 6.5 11.0 4.5 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 10 0.8 -0.2 1.6 5.6 7.0 1.4 HT/VHT40 STBC, M0 to M7 3 10 0.8 -0.2 1.6 5.6 7.0 1.4 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 4 5 5 5.5 7.0 1.5 HT/VHT80, M0 to M9 1ss 4 1 5 0.1 -0.6 2.8 9.0 6.2 HT80, M0 to M9 1ss 4 1 5 0.1 -0.6 2.8 9.0 6.2 HT80, M0 to M9 2ss 4 11.0 8.2 | | HT/VHT20, M8 to M15 | 3 | 7 | 5.5 | 4.5 | 5.6 | 10.0 | 10.0 | 0.0 |
| HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M9 tss HT/VHT20, M0 to M9 tss HT/WHT20, M0 to M9 ts | | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 5.5 | 4.5 | | 8.0 | 9.0 | 1.0 |
| HT/VHT20 Beam Forming, M8 to M15 | | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 5.5 | 4.5 | | 8.0 | 11.0 | 3.0 |
| HT/VHT20 STBC, M0 to M7 A | | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 1.8 | 0.7 | 1.9 | 6.3 | 7.0 | 0.7 |
| HT/VHT20 STBC, M0 to M7 | | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 5.5 | 4.5 | 5.6 | 10.0 | 10.0 | 0.0 |
| Non HT40, 6 to 54 Mbps | | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 5.5 | 4.5 | | 8.0 | 11.0 | 3.0 |
| Non HT40, 6 to 54 Mbps | | HT/VHT20 STBC, M0 to M7 | 3 | 7 | 5.5 | 4.5 | 5.6 | 10.0 | 10.0 | 0.0 |
| Non HT40, 6 to 54 Mbps | | | | | | | | | | |
| Non HT40, 6 to 54 Mbps 3 10 1.7 0.8 2.6 6.5 7.0 0.5 HT/VHT40, M0 to M7 1 5 3.9 3.9 11.0 7.1 HT/VHT40, M0 to M7 2 8 3.9 3.1 6.5 9.0 2.5 HT/VHT40, M8 to M15 2 5 3.9 3.1 6.5 11.0 4.5 HT/VHT40, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40, Beam Forming, M0 to M7 2 8 3.9 3.1 6.5 9.0 2.5 HT/VHT40 Beam Forming, M8 to M15 2 5 3.9 3.1 6.5 9.0 2.5 HT/VHT40 Beam Forming, M8 to M15 2 5 3.9 3.1 6.5 9.0 2.5 HT/VHT40 Beam Forming, M8 to M15 2 5 3.9 3.1 6.5 11.0 4.5 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 10 0.8 -0.2 1.6 5.6 7.0 1.4 HT/VHT40 STBC, M0 to M7 2 5 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 Non HT80, 6 to 54 Mbps 1 5 0.5 0.5 0.5 11.0 10.5 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | Non HT40, 6 to 54 Mbps | 1 | 5 | 4.5 | | | 4.5 | 11.0 | 6.5 |
| HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 BHT/VHT40, M8 to M15 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to | | Non HT40, 6 to 54 Mbps | 2 | 8 | 4.5 | 3.7 | | 7.1 | 9.0 | 1.9 |
| HT/VHT40, M0 to M7 Calcabox Barbon Barbon | | Non HT40, 6 to 54 Mbps | 3 | 10 | 1.7 | 0.8 | 2.6 | 6.5 | 7.0 | 0.5 |
| HT/VHT40, M8 to M15 BEST STATES OF THE NORTH TRANSPORT OF THE NORTH | | HT/VHT40, M0 to M7 | 1 | 5 | 3.9 | | | 3.9 | 11.0 | 7.1 |
| HT/VHT40, M0 to M7 | | HT/VHT40, M0 to M7 | 2 | 8 | 3.9 | 3.1 | | 6.5 | 9.0 | 2.5 |
| HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 DESCRIPTION OF THE PROPERTY OF THE PROPE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY | | HT/VHT40, M8 to M15 | 2 | 5 | 3.9 | 3.1 | | 6.5 | 11.0 | 4.5 |
| HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 DESCRIPTION OF THE PROPERTY OF THE PROPE THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY | 2 | HT/VHT40, M0 to M7 | 3 | 10 | 1.8 | 1.0 | 2.6 | 6.6 | 7.0 | 0.4 |
| HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 2 5 3.9 3.1 6.5 11.0 4.5 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 Non HT80, 6 to 54 Mbps 1 5 0.5 0.5 0.5 11.0 10.5 Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | .99 | HT/VHT40, M8 to M15 | 3 | 7 | 3.9 | 3.1 | 4.9 | 8.8 | 10.0 | 1.2 |
| HT/VHT40 Beam Forming, M0 to M7 3 10 0.8 -0.2 1.6 5.6 7.0 1.4 HT/VHT40 Beam Forming, M8 to M15 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 2 5 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 Non HT80, 6 to 54 Mbps 1 5 0.5 0.5 0.5 11.0 10.5 Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | 3.9 | 3.1 | | 6.5 | 9.0 | 2.5 |
| HT/VHT40 Beam Forming, M8 to M15 | | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | 3.9 | 3.1 | | 6.5 | 11.0 | 4.5 |
| HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M9 t | | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | 0.8 | -0.2 | 1.6 | 5.6 | 7.0 | 1.4 |
| HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 | | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | 3.9 | 3.1 | 4.9 | 8.8 | 10.0 | 1.2 |
| HT/VHT40 STBC, M0 to M7 3 7 3.9 3.1 4.9 8.8 10.0 1.2 Non HT80, 6 to 54 Mbps 1 5 0.5 0.5 11.0 10.5 Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | HT/VHT40 STBC, M0 to M7 | 2 | 5 | 3.9 | 3.1 | | 6.5 | 11.0 | 4.5 |
| Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | HT/VHT40 STBC, M0 to M7 | 3 | 7 | 3.9 | 3.1 | 4.9 | 8.8 | 10.0 | 1.2 |
| Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | | | | | | | | | |
| Non HT80, 6 to 54 Mbps 2 8 0.5 0.2 3.4 9.0 5.6 Non HT80, 6 to 54 Mbps 3 10 0.5 0.2 1.5 5.5 7.0 1.5 VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | Non HT80, 6 to 54 Mbps | 1 | 5 | 0.5 | | | 0.5 | 11.0 | 10.5 |
| Non HT80, 6 to 54 Mbps VHT80, M0 to M9 1ss VHT80, M0 to M9 1ss VHT80, M0 to M9 2ss 3 10 0.5 0.2 1.5 5.5 7.0 1.5 0.1 11.0 10.9 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | | 2 | 8 | 0.5 | 0.2 | | 3.4 | | 5.6 |
| VHT80, M0 to M9 1ss 1 5 0.1 0.1 11.0 10.9 VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | | | _ | 10 | 0.5 | 0.2 | 1.5 | | 7.0 | |
| VHT80, M0 to M9 1ss 2 8 0.1 -0.6 2.8 9.0 6.2 VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 |)69 | | 1 | 5 | 0.1 | | | | | |
| VHT80, M0 to M9 2ss 2 5 0.1 -0.6 2.8 11.0 8.2 | 5 | | 2 | | | -0.6 | | | | |
| | | | 2 | 5 | 0.1 | -0.6 | | | 11.0 | |
| | | | _ | | | | 0.7 | | | 2.1 |

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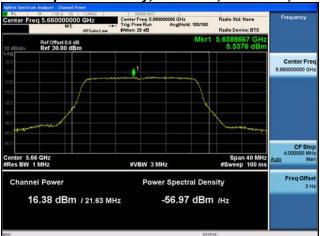
| VHT80, M0 to M9 2ss 3 7 0.1 -0.6 0.7 4.9 VHT80 Beam Forming, M0 to M9 1ss 2 8 0.1 -0.6 2.8 VHT80 Beam Forming, M0 to M9 2ss 2 5 0.1 -0.6 2.8 VHT80 Beam Forming, M0 to M9 1ss 3 10 -2.1 -2.4 -0.8 3.1 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 1 5 6.4 6.4 6.4 Non HT20, 6 to 54 Mbps 1 5 6.4 6.4 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 | 9.0 6 11.0 8 7.0 3 10.0 5 11.0 8 11.0 6 11.0 6 11.0 5 9.0 0 11.0 5 9.0 0 11.0 5 9.0 0 11.0 5 | 5.1 6.2 8.2 3.9 5.1 8.2 6.1 4.6 0.8 0.5 0.5 5.2 0.3 2.3 |
|--|---|--|
| VHT80 Beam Forming, M0 to M9 2ss 2 5 0.1 -0.6 2.8 VHT80 Beam Forming, M0 to M9 1ss 3 10 -2.1 -2.4 -0.8 3.1 VHT80 Beam Forming, M0 to M9 2ss 3 7 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 2.8 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 Non HT20, 6 to 54 Mbps 1 5 6.4 6.4 6.4 Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.6 8.7 HT/VHT20, M8 to M15 2 5 5.8 5.6 8.7 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 | 11.0 8 7.0 3 10.0 5 11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 8.2 3.9 5.1 8.2 6.1 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| VHT80 Beam Forming, M0 to M9 1ss 3 10 -2.1 -2.4 -0.8 3.1 VHT80 Beam Forming, M0 to M9 2ss 3 7 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 1 5 6.4 6.5 8.2 6.5 8.2 8.2 8.5 5.0 8.2 8.2 <td>7.0 3 10.0 5 11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0</td> <td>3.9 5.1 8.2 6.1 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3</td> | 7.0 3 10.0 5 11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 3.9 5.1 8.2 6.1 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| VHT80 Beam Forming, M0 to M9 2ss 3 7 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 0.7 4.9 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 Non HT20, 6 to 54 Mbps 1 5 6.4 6.4 6.4 Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.8 5.6 8.7 HT/VHT20, M8 to M15 2 5 5.8 5.6 8.7 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5. | 10.0 5 11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 5.1 8.2 6.1 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| VHT80 STBC, M0 to M9 1ss 2 5 0.1 -0.6 2.8 VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 Non HT20, 6 to 54 Mbps 1 5 6.4 6.4 Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.8 5.6 8.7 HT/VHT20, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 <td>11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0</td> <td>8.2 6.1 4.6 0.8 0.5 0.5 0.5 5.2 0.3 2.3</td> | 11.0 8 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 8.2 6.1 4.6 0.8 0.5 0.5 0.5 5.2 0.3 2.3 |
| VHT80 STBC, M0 to M9 1ss 3 5 0.1 -0.6 0.7 4.9 Non HT20, 6 to 54 Mbps 1 5 6.4 6.4 Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.6 8.7 HT/VHT20, M8 to M15 2 5 5.8 5.6 8.7 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 11.0 6 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 6.1 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| Non HT20, 6 to 54 Mbps | 11.0 4 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 4.6 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.8 5.8 HT/VHT20, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20, M0 to M7 3 10 1.9 1.8 2.8 7.0 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| Non HT20, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 5.4 5.0 8.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 1.4 1.3 2.3 6.5 HT/VHT20, M0 to M7 1 5 5.8 5.8 5.8 HT/VHT20, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20, M0 to M7 3 10 1.9 1.8 2.8 7.0 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 9.0 0 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 0.8 0.5 0.8 0.5 5.2 0.3 2.3 |
| Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 | 7.0 0 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 0.5 0.8 0.5 5.2 0.3 2.3 |
| Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 Non HT20 Beam Forming, 6 to 54 Mbps 1 | 9.0 0 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 0.8 0.5 5.2 0.3 2.3 |
| Non HT20 Beam Forming, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 Barray 1 | 7.0 0 11.0 5 9.0 0 11.0 2 7.0 0 | 0.5 5.2 0.3 2.3 |
| HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 | 11.0 5 9.0 0 11.0 2 7.0 0 | 5.2 0.3 2.3 |
| HT/VHT20, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20, M8 to M15 2 5 5.8 5.6 8.7 HT/VHT20, M0 to M7 3 10 1.9 1.8 2.8 7.0 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 | 9.0 0 11.0 2 7.0 0 | 0.3 2.3 |
| HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 3 10 1.9 1.8 2.8 7.0 HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 11.0 2 7.0 0 | 2.3 |
| HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 7.0 0 | |
| HT/VHT20, M8 to M15 3 7 4.9 4.5 5.5 9.8 HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | | |
| HT/VHT20 Beam Forming, M0 to M7 2 8 5.8 5.6 8.7 HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | 10.0 0 | 0.0 |
| HT/VHT20 Beam Forming, M8 to M15 2 5 5.8 5.6 8.7 | | 0.2 |
| S** | 9.0 0 | 0.3 |
| HT/VHT20 Beam Forming, M0 to M7 3 10 1.9 1.8 2.8 7.0 | 11.0 2 | 2.3 |
| | 7.0 0 | 0.0 |
| HT/VHT20 Beam Forming, M8 to M15 3 7 4.9 4.5 5.5 9.8 | 10.0 0 | 0.2 |
| HT/VHT20 STBC, M0 to M7 2 5 5.8 5.6 8.7 | 11.0 2 | 2.3 |
| HT/VHT20 STBC, M0 to M7 3 7 4.9 4.5 5.5 9.8 | 10.0 0 | 0.2 |
| | | |
| Non HT40, 6 to 54 Mbps 1 5 4.5 4.5 | 11.0 6 | 6.5 |
| Non HT40, 6 to 54 Mbps 2 8 4.5 4.5 7.5 | 9.0 1 | 1.5 |
| Non HT40, 6 to 54 Mbps 3 10 1.4 2.1 2.1 6.7 | 7.0 0 | 0.3 |
| HT/VHT40, M0 to M7 1 5 4.0 4.0 | 11.0 7 | 7.0 |
| HT/VHT40, M0 to M7 2 8 4.0 4.5 7.3 | 9.0 1 | 1.7 |
| HT/VHT40, M8 to M15 2 5 4.0 4.5 7.3 | 11.0 3 | 3.7 |
| P HT/VHT40, M0 to M7 3 10 0.8 1.1 2.0 6.1 | 7.0 0 | 0.9 |
| C HT/VHT40, M0 to M7 3 10 0.8 1.1 2.0 6.1 HT/VHT40, M8 to M15 3 7 4.0 4.5 5.1 9.3 | 10.0 0 | 0.7 |
| HT/VHT40 Beam Forming, M0 to M7 2 8 4.0 4.5 7.3 | | 1.7 |
| HT/VHT40 Beam Forming, M8 to M15 2 5 4.0 4.5 7.3 | 11.0 3 | 3.7 |
| HT/VHT40 Beam Forming, M0 to M7 | | 0.9 |
| HT/VHT40 Beam Forming, M8 to M15 3 7 4.0 4.5 5.1 9.3 | | 0.7 |
| HT/VHT40 STBC, M0 to M7 2 5 4.0 4.5 7.3 | | 3.7 |
| HT/VHT40 STBC, M0 to M7 3 7 4.0 4.5 5.1 9.3 | | 0.7 |



| | Non HT20, 6 to 54 Mbps | 1 | 5 | 6.0 | | | 6.0 | 11.0 | 5.0 |
|----|-------------------------------------|---|----|-----|-----|-----|-----|------|-----|
| | Non HT20, 6 to 54 Mbps | 2 | 8 | 5.2 | 5.3 | | 8.3 | 9.0 | 0.7 |
| | Non HT20, 6 to 54 Mbps | 3 | 10 | 0.7 | 1.4 | 1.6 | 6.0 | 7.0 | 1.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | 5.2 | 5.3 | | 8.3 | 9.0 | 0.7 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | 0.7 | 1.4 | 1.6 | 6.0 | 7.0 | 1.0 |
| | HT/VHT20, M0 to M7 | 1 | 5 | 5.3 | | | 5.3 | 11.0 | 5.7 |
| | HT/VHT20, M0 to M7 | 2 | 8 | 5.3 | 5.6 | | 8.5 | 9.0 | 0.5 |
| 20 | HT/VHT20, M8 to M15 | 2 | 5 | 5.3 | 5.6 | | 8.5 | 11.0 | 2.5 |
| 57 | HT/VHT20, M0 to M7 | 3 | 10 | 1.7 | 1.9 | 2.3 | 6.7 | 7.0 | 0.3 |
| | HT/VHT20, M8 to M15 | 3 | 7 | 4.6 | 4.8 | 5.1 | 9.6 | 10.0 | 0.4 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | 5.3 | 5.6 | | 8.5 | 9.0 | 0.5 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | 5.3 | 5.6 | | 8.5 | 11.0 | 2.5 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | 1.7 | 1.9 | 2.3 | 6.7 | 7.0 | 0.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | 4.6 | 4.8 | 5.1 | 9.6 | 10.0 | 0.4 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | 5.3 | 5.6 | | 8.5 | 11.0 | 2.5 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 7 | 4.6 | 4.8 | 5.1 | 9.6 | 10.0 | 0.4 |



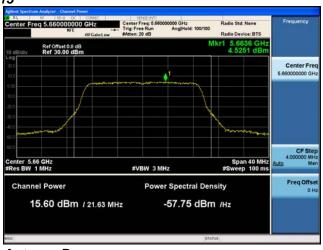
Power Spectral Density, 5660 MHz, HT/VHT20, M8 to M15



Antenna A



Antenna C



Antenna B

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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.

Note:

The Intentional Beamforming correlated array gain for any number of space time streams is given by the general formula:

$$G_{bf_max} = 10*log10(N_{tx}/N_{sts})$$

where N_{tx} is the number of equal power active transmit antennas and N_{sts} is the number of active space time streams.

Test Procedure

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

Conducted Spurious Emissions

Test Procedure

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

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

Conducted Spurious Emissions

Test parameters

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

RBW = 1 MHz

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

Sweep = Auto couple

Detector = Peak

Trace = Max Hold.

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

| Tested By: | Date of testing: |
|--------------------|-----------------------|
| Jose Aguirre | 05-May-16 - 06-Jun-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment

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Conducted Spurs Average Upper, All Antennas



Conducted Spurs Peak Upper, All Antennas





| Frequency (MHz) | Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Total Conducted Spur (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|-------------|-------------|
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -74.6 | | | -69.6 | -41.25 | 28.4 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -74.6 | -69.5 | | -63.3 | -41.25 | 22.1 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -74.8 | -74.6 | -74.6 | -64.9 | -41.25 | 23.6 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -74.6 | -69.5 | | -60.3 | -41.25 | 19.1 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -74.8 | -74.6 | -74.6 | -59.9 | -41.25 | 18.6 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -74.5 | | | -69.5 | -41.25 | 28.3 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -74.5 | -74.6 | | -66.5 | -41.25 | 25.3 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | -74.5 | -74.6 | | -66.5 | -41.25 | 25.3 |
| 55 | HT/VHT20, M0 to M7 | 3 | 5 | -71.0 | -74.6 | -63.5 | -57.5 | -41.25 | 16.3 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -74.5 | -74.6 | -70.7 | -63.1 | -41.25 | 21.8 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -74.5 | -74.6 | | -63.5 | -41.25 | 22.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -74.5 | -74.6 | | -66.5 | -41.25 | 25.3 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -71.0 | -74.6 | -63.5 | -52.5 | -41.25 | 11.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -74.5 | -74.6 | -70.7 | -61.1 | -41.25 | 19.8 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -74.5 | -74.6 | | -66.5 | -41.25 | 25.3 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -74.5 | -74.6 | -70.7 | -63.1 | -41.25 | 21.8 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -74.9 | | | -69.9 | -41.25 | 28.7 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -74.9 | -74.4 | | -66.6 | -41.25 | 25.4 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -74.9 | -74.4 | -61.0 | -55.6 | -41.25 | 14.4 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -74.7 | | | -69.7 | -41.25 | 28.5 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -70.8 | -74.4 | | -64.2 | -41.25 | 23.0 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -70.8 | -74.4 | | -64.2 | -41.25 | 23.0 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | -70.8 | -74.4 | -74.5 | -63.1 | -41.25 | 21.8 |
| 5510 | HT/VHT40, M8 to M15 | 3 | 5 | -70.8 | -74.4 | -74.5 | -63.1 | -41.25 | 21.8 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -74.4 | -74.6 | | -63.5 | -41.25 | 22.2 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -70.8 | -74.4 | | -64.2 | -41.25 | 23.0 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -74.5 | -74.4 | -63.0 | -52.4 | -41.25 | 11.2 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -74.4 | -74.6 | -63.0 | -55.4 | -41.25 | 14.2 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -70.8 | -74.4 | | -64.2 | -41.25 | 23.0 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -70.8 | -74.4 | -74.5 | -63.1 | -41.25 | 21.8 |



| | Non HT80, 6 to 54 Mbps | 1 | 5 | -74.9 | | | -69.9 | -41.25 | 28.7 |
|------|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| | Non HT80, 6 to 54 Mbps | 2 | 5 | -74.9 | -74.2 | | -66.5 | -41.25 | 25.3 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | -71.0 | -74.7 | -61.6 | -55.9 | -41.25 | 14.7 |
| | VHT80, M0 to M9 1ss | 1 | 5 | -70.9 | | | -65.9 | -41.25 | 24.7 |
| | VHT80, M0 to M9 1ss | 2 | 5 | -70.9 | -74.8 | | -64.4 | -41.25 | 23.2 |
| | VHT80, M0 to M9 2ss | 2 | 5 | -70.9 | -74.8 | | -64.4 | -41.25 | 23.2 |
| 5530 | VHT80, M0 to M9 1ss | 3 | 5 | -71.1 | -75.0 | -62.2 | -56.5 | -41.25 | 15.2 |
| 55 | VHT80, M0 to M9 2ss | 3 | 5 | -71.1 | -75.0 | -62.2 | -56.5 | -41.25 | 15.2 |
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -71.1 | -75.0 | | -61.6 | -41.25 | 20.4 |
| | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -70.9 | -74.8 | | -64.4 | -41.25 | 23.2 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -74.9 | -74.6 | -62.1 | -51.7 | -41.25 | 10.4 |
| | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -71.1 | -75.0 | -62.2 | -54.5 | -41.25 | 13.2 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -70.9 | -74.8 | | -64.4 | -41.25 | 23.2 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -71.1 | -75.0 | -62.2 | -56.5 | -41.25 | 15.2 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -71.0 | | | -66.0 | -41.25 | 24.8 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -71.0 | -75.0 | | -64.5 | -41.25 | 23.3 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -75.1 | -74.9 | -61.8 | -56.4 | -41.25 | 15.2 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -75.2 | | | -70.2 | -41.25 | 29.0 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -75.2 | -70.4 | | -64.2 | -41.25 | 22.9 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -75.2 | -70.4 | | -64.2 | -41.25 | 22.9 |
| 5550 | HT/VHT40, M0 to M7 | 3 | 5 | -75.1 | -70.9 | -61.6 | -55.9 | -41.25 | 14.7 |
| 55 | HT/VHT40, M8 to M15 | 3 | 5 | -75.2 | -70.4 | -62.0 | -56.2 | -41.25 | 15.0 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -75.2 | -70.4 | | -61.2 | -41.25 | 19.9 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -75.2 | -70.4 | | -64.2 | -41.25 | 22.9 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -74.9 | -75.4 | -61.6 | -51.2 | -41.25 | 10.0 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -75.2 | -70.4 | -62.0 | -54.2 | -41.25 | 13.0 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -75.2 | -70.4 | | -64.2 | -41.25 | 22.9 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -75.2 | -70.4 | -62.0 | -56.2 | -41.25 | 15.0 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -70.9 | | | -65.9 | -41.25 | 24.7 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -70.7 | -75.8 | | -64.5 | -41.25 | 23.3 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -75.6 | -75.8 | -64.8 | -59.1 | -41.25 | 17.9 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -70.7 | -75.8 | | -61.5 | -41.25 | 20.3 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -75.6 | -75.8 | -64.8 | -54.1 | -41.25 | 12.9 |
| 0 | HT/VHT20, M0 to M7 | 1 | 5 | -75.1 | | | -70.1 | -41.25 | 28.9 |
| 5560 | HT/VHT20, M0 to M7 | 2 | 5 | -75.1 | -76.1 | | -67.6 | -41.25 | 26.3 |
| ц) | HT/VHT20, M8 to M15 | 2 | 5 | -75.1 | -76.1 | | -67.6 | -41.25 | 26.3 |
| | HT/VHT20, M0 to M7 | 3 | 5 | -75.2 | -71.0 | -63.8 | -57.8 | -41.25 | 16.5 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -70.8 | -75.6 | -64.3 | -58.2 | -41.25 | 16.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -75.1 | -76.1 | | -64.6 | -41.25 | 23.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -75.1 | -76.1 | | -67.6 | -41.25 | 26.3 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -75.2 | -71.0 | -63.8 | -52.8 | -41.25 | 11.5 |

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| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -70.8 | -75.6 | -64.3 | -56.2 | -41.25 | 14.9 |
|------|-------------------------------------|---|----------|-------|-------|-------|-------|--------|-------|
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -75.1 | -76.1 | | -67.6 | -41.25 | 26.3 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -70.8 | -75.6 | -64.3 | -58.2 | -41.25 | 16.9 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -70.8 | | | -65.8 | -41.25 | 24.6 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -70.8 | -76.0 | | -64.7 | -41.25 | 23.4 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -76.5 | -76.2 | -64.3 | -58.8 | -41.25 | 17.5 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -70.8 | -76.0 | | -61.7 | -41.25 | 20.4 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -76.5 | -76.2 | -64.3 | -53.8 | -41.25 | 12.5 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -75.4 | | | -70.4 | -41.25 | 29.2 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -75.4 | -76.2 | | -67.8 | -41.25 | 26.5 |
| 2660 | HT/VHT20, M8 to M15 | 2 | 5 | -75.4 | -76.2 | | -67.8 | -41.25 | 26.5 |
| 56 | HT/VHT20, M0 to M7 | 3 | 5 | -75.9 | -71.0 | -76.4 | -63.9 | -41.25 | 22.7 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -75.4 | -76.2 | -70.8 | -63.7 | -41.25 | 22.4 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -75.4 | -76.2 | | -64.8 | -41.25 | 23.5 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -75.4 | -76.2 | | -67.8 | -41.25 | 26.5 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -75.9 | -71.0 | -76.4 | -58.9 | -41.25 | 17.7 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -75.4 | -76.2 | -70.8 | -61.7 | -41.25 | 20.4 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -75.4 | -76.2 | | -67.8 | -41.25 | 26.5 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -75.4 | -76.2 | -70.8 | -63.7 | -41.25 | 22.4 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -76.2 | | | -71.2 | -41.25 | 30.0 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -76.2 | -71.1 | | -64.9 | -41.25 | 23.7 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -76.1 | -76.3 | -61.6 | -56.3 | -41.25 | 15.1 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -76.0 | | | -71.0 | -41.25 | 29.8 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -76.0 | -76.1 | | -68.0 | -41.25 | 26.8 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -76.0 | -76.1 | | -68.0 | -41.25 | 26.8 |
| 02 | HT/VHT40, M0 to M7 | 3 | 5 | -71.2 | -71.2 | -61.8 | -55.9 | -41.25 | 14.7 |
| 5670 | HT/VHT40, M8 to M15 | 3 | 5 | -76.0 | -76.1 | -61.5 | -56.2 | -41.25 | 15.0 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -76.0 | -76.1 | | -65.0 | -41.25 | 23.8 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -76.0 | -76.1 | | -68.0 | -41.25 | 26.8 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -76.0 | -76.1 | -64.3 | -53.8 | -41.25 | 12.5 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -76.0 | -76.1 | -61.5 | -54.2 | -41.25 | 13.0 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -76.0 | -76.1 | | -68.0 | -41.25 | 26.8 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -76.0 | -76.1 | -61.5 | -56.2 | -41.25 | 15.0 |
| | , | | | | | | | | |
| | Non HT80, 6 to 54 Mbps | 1 | 5 | -75.8 | | | -70.8 | -41.25 | 29.6 |
| | Non HT80, 6 to 54 Mbps | 2 | 5 | -75.8 | -70.9 | | -64.7 | -41.25 | 23.4 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | -75.8 | -70.9 | -60.9 | -55.4 | -41.25 | 14.1 |
| 2690 | VHT80, M0 to M9 1ss | 1 | 5 | -75.7 | . 0.0 | 30.0 | -70.7 | -41.25 | 29.5 |
| 5(| VHT80, M0 to M9 1ss | 2 | 5 | -75.7 | -75.6 | | -67.6 | -41.25 | 26.4 |
| | VHT80, M0 to M9 2ss | 2 | 5 | -75.7 | -75.6 | | -67.6 | -41.25 | 26.4 |
| | VHT80, M0 to M9 1ss | 3 | 5 | -75.7 | -75.6 | -60.6 | -55.3 | -41.25 | 14.1 |
| | 7777 CO, INO 10 INO 100 | J | <u> </u> | , 5.1 | , 5.0 | 00.0 | 00.0 | 11.20 | 1 (1) |

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| | VHT80, M0 to M9 2ss | 3 | 5 | -75.7 | 75.6 | 60.6 | | 44 05 | |
|------|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| _ | | - | | | -75.6 | -60.6 | -55.3 | -41.25 | 14.1 |
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -75.7 | -75.6 | | -64.6 | -41.25 | 23.4 |
| - E | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -75.7 | -75.6 | | -67.6 | -41.25 | 26.4 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -76.1 | -76.4 | -63.4 | -53.0 | -41.25 | 11.7 |
| | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -75.7 | -75.6 | -60.6 | -53.3 | -41.25 | 12.1 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -75.7 | -75.6 | | -67.6 | -41.25 | 26.4 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -75.7 | -75.6 | -60.6 | -55.3 | -41.25 | 14.1 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -74.3 | | | -69.3 | -41.25 | 28.1 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -74.5 | -74.7 | | -66.6 | -41.25 | 25.3 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -74.2 | -74.5 | -66.2 | -60.0 | -41.25 | 18.8 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -74.5 | -74.7 | | -63.6 | -41.25 | 22.3 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -74.2 | -74.5 | -66.2 | -55.0 | -41.25 | 13.8 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -73.8 | | | -68.8 | -41.25 | 27.6 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -73.8 | -71.0 | | -64.2 | -41.25 | 22.9 |
| 5700 | HT/VHT20, M8 to M15 | 2 | 5 | -73.8 | -71.0 | | -64.2 | -41.25 | 22.9 |
| 57 | HT/VHT20, M0 to M7 | 3 | 5 | -70.7 | -70.9 | -66.1 | -58.9 | -41.25 | 17.6 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -74.9 | -73.8 | -65.5 | -59.5 | -41.25 | 18.2 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -73.8 | -71.0 | | -61.2 | -41.25 | 19.9 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -73.8 | -71.0 | | -64.2 | -41.25 | 22.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -70.7 | -70.9 | -66.1 | -53.9 | -41.25 | 12.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -74.9 | -73.8 | -65.5 | -57.5 | -41.25 | 16.2 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -73.8 | -71.0 | | -64.2 | -41.25 | 22.9 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -74.9 | -73.8 | -65.5 | -59.5 | -41.25 | 18.2 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -74.5 | | | -69.5 | -41.25 | 28.3 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -74.5 | -71.0 | | -64.4 | -41.25 | 23.1 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -74.4 | -74.0 | -62.5 | -56.9 | -41.25 | 15.7 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -70.9 | | | -65.9 | -41.25 | 24.7 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -70.9 | -75.0 | | -64.5 | -41.25 | 23.2 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -70.9 | -75.0 | | -64.5 | -41.25 | 23.2 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | -74.9 | -73.9 | -64.5 | -58.7 | -41.25 | 17.4 |
| 5710 | HT/VHT40, M8 to M15 | 3 | 5 | -70.9 | -75.0 | -62.5 | -56.7 | -41.25 | 15.5 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -70.9 | -75.0 | | -61.5 | -41.25 | 20.2 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -70.9 | -75.0 | | -64.5 | -41.25 | 23.2 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -74.9 | -73.9 | -64.5 | -53.7 | -41.25 | 12.4 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -70.9 | -75.0 | -62.5 | -54.7 | -41.25 | 13.5 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -70.9 | -75.0 | | -64.5 | -41.25 | 23.2 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -70.9 | -75.0 | -62.5 | -56.7 | -41.25 | 15.5 |



| | | | | | | | _ | | |
|----|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -73.6 | | | -68.6 | -41.25 | 27.4 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -73.8 | -73.5 | | -65.6 | -41.25 | 24.4 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -71.0 | -72.7 | -66.7 | -59.6 | -41.25 | 18.3 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -73.8 | -73.5 | | -62.6 | -41.25 | 21.4 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -71.0 | -72.7 | -66.7 | -54.6 | -41.25 | 13.3 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -71.0 | | | -66.0 | -41.25 | 24.8 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -71.0 | -71.0 | | -63.0 | -41.25 | 21.7 |
| 20 | HT/VHT20, M8 to M15 | 2 | 5 | -71.0 | -71.0 | | -63.0 | -41.25 | 21.7 |
| 57 | HT/VHT20, M0 to M7 | 3 | 5 | -73.8 | -71.0 | -66.8 | -59.8 | -41.25 | 18.6 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -73.9 | -74.3 | -66.4 | -60.1 | -41.25 | 18.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -71.0 | -71.0 | | -60.0 | -41.25 | 18.7 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -71.0 | -71.0 | | -63.0 | -41.25 | 21.7 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -73.8 | -71.0 | -66.8 | -54.8 | -41.25 | 13.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -73.9 | -74.3 | -66.4 | -58.1 | -41.25 | 16.9 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -71.0 | -71.0 | | -63.0 | -41.25 | 21.7 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -73.9 | -74.3 | -66.4 | -60.1 | -41.25 | 18.9 |



Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7





Antenna A

Antenna B



Antenna C



| Frequency (MHz) | Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Spur Power (dBm) | Tx 2 Spur Power (dBm) | Tx 3 Spur Power (dBm) | Total Conducted Spur (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------------------|----------|----------------------------------|--------------------------|--------------------------|--------------------------|----------------------------|-------------|-------------|
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -54.6 | | | -49.6 | -21.25 | 28.4 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -54.6 | -49.5 | | -43.3 | -21.25 | 22.1 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -53.2 | -53.7 | -56.9 | -44.5 | -21.25 | 23.3 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -54.6 | -49.5 | | -40.3 | -21.25 | 19.1 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -53.2 | -53.7 | -56.9 | -39.5 | -21.25 | 18.3 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -50.8 | | | -45.8 | -21.25 | 24.6 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -50.8 | -51.4 | | -43.1 | -21.25 | 21.8 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | -50.8 | -51.4 | | -43.1 | -21.25 | 21.8 |
| 55 | HT/VHT20, M0 to M7 | 3 | 5 | -53.6 | -52.8 | -59.3 | -44.7 | -21.25 | 23.4 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -50.8 | -51.4 | -50.3 | -41.0 | -21.25 | 19.8 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -50.8 | -51.4 | | -40.1 | -21.25 | 18.8 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -50.8 | -51.4 | | -43.1 | -21.25 | 21.8 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -53.6 | -52.8 | -59.3 | -39.7 | -21.25 | 18.4 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -50.8 | -51.4 | -50.3 | -39.0 | -21.25 | 17.8 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -50.8 | -51.4 | | -43.1 | -21.25 | 21.8 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -50.8 | -51.4 | -50.3 | -41.0 | -21.25 | 19.8 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -50.1 | | | -45.1 | -21.25 | 23.9 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -50.1 | -52.0 | | -42.9 | -21.25 | 21.7 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -50.1 | -52.0 | -50.0 | -40.8 | -21.25 | 19.6 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -51.5 | | | -46.5 | -21.25 | 25.3 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -50.8 | -52.7 | | -43.6 | -21.25 | 22.4 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -50.8 | -52.7 | | -43.6 | -21.25 | 22.4 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | -50.8 | -52.7 | -50.1 | -41.3 | -21.25 | 20.0 |
| 551 | HT/VHT40, M8 to M15 | 3 | 5 | -50.8 | -52.7 | -50.1 | -41.3 | -21.25 | 20.0 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -52.5 | -57.9 | | -43.4 | -21.25 | 22.1 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -50.8 | -52.7 | | -43.6 | -21.25 | 22.4 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -58.2 | -53.7 | -53.1 | -39.7 | -21.25 | 18.5 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -52.5 | -57.9 | -53.8 | -42.4 | -21.25 | 21.2 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -50.8 | -52.7 | | -43.6 | -21.25 | 22.4 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -50.8 | -52.7 | -50.1 | -41.3 | -21.25 | 20.0 |



| Non HT80, 6 to 54 Mbps | | | | | I | | | | | |
|--|-----|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| Non HT80, 6 to 54 Mbps Non HT80, Mo to M9 1ss Non HT80, Mo to M9 2ss Non HT80, Mo to M9 1ss Non HT80, Mo to M0 1ss Non HT | | Non HT80, 6 to 54 Mbps | 1 | 5 | -53.2 | | | -48.2 | -21.25 | 27.0 |
| VHT80, M0 to M9 1ss | | Non HT80, 6 to 54 Mbps | 2 | 5 | | -52.9 | | -45.0 | | 23.8 |
| VHT80, M0 to M9 1ss | | | 3 | | | -51.4 | -55.9 | -43.4 | | |
| VHT80, M0 to M9 2ss | | VHT80, M0 to M9 1ss | 1 | 5 | -51.7 | | | -46.7 | -21.25 | 25.5 |
| No. | | VHT80, M0 to M9 1ss | 2 | 5 | -51.7 | -58.4 | | -45.9 | -21.25 | 24.6 |
| VHT80, M0 to M9 2ss | | VHT80, M0 to M9 2ss | 2 | 5 | -51.7 | -58.4 | | -45.9 | -21.25 | 24.6 |
| VHT80 Beam Forming, M0 to M9 1ss 2 8 -52.5 -59.7 -43.7 -21.25 22.5 VHT80 Beam Forming, M0 to M9 2ss 2 5 -51.7 -58.4 -45.9 -21.25 24.6 VHT80 Beam Forming, M0 to M9 1ss 3 10 -53.9 -54.3 -58.5 -40.4 -21.25 22.5 VHT80 STBC, M0 to M9 2ss 3 7 -52.5 -59.7 -57.8 -43.8 -21.25 22.5 VHT80 STBC, M0 to M9 1ss 2 5 -51.7 -58.4 -45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 1 5 -58.8 -52.5 -59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 1 5 -58.8 -56.2 -49.3 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 2 5 -58.8 -56.2 -49.3 -21.25 24.5 VHT80 STBC, M0 to M0 1ss Non HT40, 6 to 54 Mbps 3 5 -52.3 -60.1 -57.0 -45.5 -21.25 28.0 Nn HT40, 6 to 54 Mbps 3 5 -52.3 -60.1 -57.0 -45.5 -21.25 24.3 HT/VHT40, M0 to M7 1 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M0 to M7 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M0 to M7 3 5 -51.8 -57.9 -58.9 -52.2 -21.25 24.0 HT/VHT40, M0 to M7 3 5 -51.8 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 2 8 -53.9 -51.1 -56.9 -43.6 -21.25 22.3 HT/VHT40 Beam Forming, M0 to M7 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 3 7 -53.9 -51.1 -56.9 -41.6 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 3 7 -53.9 -51.1 -56.9 -41.6 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 3 7 -53.9 -51.1 -56.9 -41.6 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 3 7 -53.9 -51.1 -56.9 -41.6 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 22.3 HT/VHT40 Beam Forming, M0 to M7 3 5 -53.9 -51.1 -56.9 -44.6 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 22.3 HT/VHT40 Beam Forming, M0 to M7 3 5 -53.9 -55.1 -56.9 -58.8 -53.1 -40.8 -21.25 22.3 HT/VHT40 Beam Forming, 6 to 54 Mbps 3 6 -55.9 -58.0 -57.2 -49.6 -21.25 28.4 HT/VHT20, M0 to M7 3 5 -56.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 4 5 -56.0 -57.2 -49.6 -21.25 28.3 HT/VHT20 | 30 | VHT80, M0 to M9 1ss | 3 | 5 | -52.5 | -59.7 | -57.8 | -45.8 | -21.25 | 24.5 |
| VHT80 Beam Forming, M0 to M9 2ss VHT80 Beam Forming, M0 to M9 1ss 3 10 -53.9 -54.3 -58.5 -40.4 -21.25 19.1 VHT80 Beam Forming, M0 to M9 2ss 3 7 -52.5 -59.7 -57.8 -43.8 -21.25 22.5 VHT80 STBC, M0 to M9 1ss 2 5 -51.7 -58.4 -45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 2 5 -51.7 -58.4 -45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -45.8 -21.25 24.5 Non HT40, 6 to 54 Mbps 1 5 -58.8 -58.8 -56.2 -49.3 -21.25 28.0 Non HT40, 6 to 54 Mbps 2 5 -58.8 -56.2 -49.3 -21.25 24.5 Non HT40, M0 to M7 -1 5 -53.9 -48.9 -21.25 27.7 HT/WHT40, M0 to M7 -1 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40, M0 to M7 -1 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40, M0 to M7 -1 3 5 -51.8 -57.9 -58.9 -45.2 -21.25 24.0 HT/WHT40 Beam Forming, M0 to M7 -2 8 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M0 to M7 -3 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M0 to M7 -3 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M0 to M7 -2 8 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M8 to M15 -2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M8 to M15 -2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M8 to M15 -2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M8 to M15 -2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 Beam Forming, M8 to M15 -2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/WHT40 STBC, M0 to M7 -3 5 -58.8 -53.1 -56.9 -41.6 -21.25 23.0 HT/WHT40 STBC, M0 to M7 -3 5 -58.8 -53.1 -48.6 -21.25 22.3 HT/WHT20, 6 to 54 Mbps -3 5 -59.9 -58.8 -53.1 -48.6 -21.25 22.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/WHT20, M0 to M7 -1 | 55 | VHT80, M0 to M9 2ss | 3 | 5 | -52.5 | -59.7 | -57.8 | -45.8 | -21.25 | 24.5 |
| VHT80 Beam Forming, M0 to M9 1ss VHT80 Beam Forming, M0 to M9 2ss 3 7 45.2.5 59.7 57.8 43.8 21.25 22.5 VHT80 STBC, M0 to M9 1ss 2 5 5.51.7 58.4 4.45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 3 5 5.52.5 59.7 57.8 45.8 21.25 22.5 VHT80 STBC, M0 to M9 1ss 3 5 5.52.5 59.7 57.8 45.8 21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 5.58.8 5.52.3 59.7 57.8 45.8 21.25 24.5 VHT80 STBC, M0 to M9 1ss 1 5 5.88.8 5.62 49.3 21.25 32.6 Non HT40, 6 to 54 Mbps 3 5 5.52.3 60.1 -57.0 45.5 21.25 24.3 HT/VHT40, M0 to M7 1 5 5.3.9 51.1 44.3 21.25 22.3 4.6 HT/VHT40, M0 to M7 1 5 5.3.9 51.1 44.3 21.25 23.0 HT/VHT40, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 23.0 HT/VHT40, M8 to M15 3 5 51.8 57.9 58.9 45.2 21.25 22.3 HT/VHT40 Beam Forming, M0 to M7 2 8 5.3.9 51.1 56.9 43.6 21.25 22.3 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 44.3 21.25 20.0 HT/VHT40 Beam Forming, M8 to M15 2 5 5.3.9 51.1 56.9 43.6 21.25 23.0 HT/VHT40 STBC, M0 to M7 3 10 52.8 57.4 58.0 40.6 21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 5.53.9 51.1 56.9 43.6 21.25 22.3 HT/VHT40 STBC, M0 to M7 3 5 5.53.9 51.1 56.9 43.6 21.25 22.3 HT/VHT40 STBC, M0 to M7 3 5 5.53.9 51.1 56.9 43.6 21.25 22.3 HT/VHT40 SBEM Forming, 6 to 54 Mbps 3 5 5.53.9 51.1 56.9 58.8 53.1 40.8 21.25 19.6 Non HT20, 6 to 54 Mbps 3 5 5.53.9 51.1 56.9 58.8 53.1 40.8 21.25 19.6 Non HT20, 6 to 54 Mbps 3 5 5.53.9 51.1 56.9 58.8 53.1 40.8 21.25 23.0 HT/VHT20, M0 to M7 1 5 5.80.0 57.2 58.1 58.0 57.2 58.1 58.3 59.1 57.6 21.25 22.3 59.0 HT/VHT20, M0 to M7 1 5 5 58.0 57.2 58.1 58.0 57.2 58.1 58.3 59.1 57.6 21.25 22.3 59.0 HT/VHT20, M0 to M7 1 5 5 58.0 57.2 58.0 57.2 58.1 58.0 57.2 58.0 57.2 58.1 58.0 57.2 58.3 59.1 57.6 58.1 58.3 59.1 57.6 58.1 58.3 5 | | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -52.5 | -59.7 | | -43.7 | -21.25 | 22.5 |
| VHT80 Beam Forming, M0 to M9 2ss 3 7 -52.5 -59.7 -57.8 -43.8 -21.25 22.5 VHT80 STBC, M0 to M9 1ss 2 5 5-51.7 -58.4 -45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -44.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -44.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -44.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 -59.7 -57.8 -44.8 -21.25 24.5 Non HT40, 6 to 54 Mbps 2 5 -58.8 -53.8 -53.8 -21.25 22.8 Non HT40, 6 to 54 Mbps 3 5 -52.3 -60.1 -57.0 -45.5 -21.25 24.3 HT/VHT40, M0 to M7 1 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M0 to M7 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M8 to M15 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M8 to M15 3 5 -51.8 -57.9 -58.9 -45.2 -21.25 24.0 HT/VHT40 Beam Forming, M0 to M7 2 8 -53.9 -51.1 -56.9 -43.6 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 3 10 -52.8 57.4 -58.0 -40.6 -21.25 23.0 HT/VHT40 Beam Forming, M0 to M7 3 10 -52.8 57.4 -58.0 -40.6 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 3 7 -53.9 -51.1 -56.9 -44.3 -21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 -53.9 -51.1 -56.9 -44.6 -21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 -58.9 -58.1 -44.3 -21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 -58.9 -58.1 -44.3 -21.25 23.0 HT/VHT20, 6 to 54 Mbps 3 5 -56.9 -58.8 -53.1 -40.6 -21.25 23.0 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -58.1 -40.6 -21.25 23.0 HT/VHT20, M0 to M7 1 5 -58.0 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/ | | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -51.7 | -58.4 | | -45.9 | -21.25 | 24.6 |
| VHT80 STBC, M0 to M9 1ss 2 5 -51.7 -58.4 -45.9 -21.25 24.6 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -52.5 59.7 -57.8 -45.8 -21.25 24.5 VHT80 STBC, M0 to M9 1ss 3 5 -58.8 -52.5 59.7 -57.8 -45.8 -21.25 24.5 Non HT40, 6 to 54 Mbps 2 5 -58.8 -56.2 -49.3 -21.25 28.0 Non HT40, 6 to 54 Mbps 3 5 -52.3 -60.1 -57.0 -45.5 -21.25 24.3 HT/VHT40, M0 to M7 1 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M0 to M7 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40, M0 to M7 3 5 -51.8 -57.9 -58.9 -45.2 -21.25 24.0 HT/VHT40, M8 to M15 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 22.3 HT/VHT40 Beam Forming, M0 to M7 2 8 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 2 5 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 Beam Forming, M8 to M15 3 7 -53.9 -51.1 -44.3 -21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 -53.9 -51.1 -56.9 -41.6 -21.25 23.0 HT/VHT40 STBC, M0 to M7 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 23.0 HT/VHT20, 8 to 54 Mbps 3 5 -53.9 -51.1 -56.9 -43.6 -21.25 23.0 HT/VHT20, 6 to 54 Mbps 3 5 -56.9 -58.8 -53.1 -46.6 -21.25 23.4 Non HT20 Beam Forming, 6 to 54 Mbps 3 5 -56.9 -58.8 -53.1 -46.6 -21.25 23.4 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 27.8 HT/VHT20, M0 to M7 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 27.8 HT/VHT20, M0 to M7 3 | | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -53.9 | -54.3 | -58.5 | -40.4 | -21.25 | 19.1 |
| Non HT40, 6 to 54 Mbps | | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -52.5 | -59.7 | -57.8 | -43.8 | -21.25 | 22.5 |
| Non HT40, 6 to 54 Mbps | | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -51.7 | -58.4 | | -45.9 | -21.25 | 24.6 |
| Non HT40, 6 to 54 Mbps | | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -52.5 | -59.7 | -57.8 | -45.8 | -21.25 | 24.5 |
| Non HT40, 6 to 54 Mbps | | | | | | | | | | |
| Non HT40, 6 to 54 Mbps | | Non HT40, 6 to 54 Mbps | 1 | 5 | -58.8 | | | -53.8 | -21.25 | 32.6 |
| HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 | | Non HT40, 6 to 54 Mbps | 2 | 5 | -58.8 | -56.2 | | -49.3 | -21.25 | 28.0 |
| HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40, M6 to M15 HT/VHT4 | | Non HT40, 6 to 54 Mbps | 3 | 5 | -52.3 | -60.1 | -57.0 | -45.5 | -21.25 | 24.3 |
| HT/VHT40, M8 to M15 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M7 HT/VHT40 Beam Forming, 6 to 54 Mbps HT/VHT20, 6 to 54 Mbps HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, Beam Forming, M0 to M7 HT/HT20, H8 to M15 HT/HT20, H8 to M15 HT/HT40, H8 to M15 HT/HT40, H8 to M15 | | HT/VHT40, M0 to M7 | 1 | 5 | -53.9 | | | -48.9 | -21.25 | 27.7 |
| HT/VHT40, M0 to M7 | | HT/VHT40, M0 to M7 | 2 | 5 | -53.9 | -51.1 | | -44.3 | -21.25 | 23.0 |
| HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M15 HT/VHT40 STBC, M1 to M15 HT/VH41 STBC, M0 to M15 HT/VH41 S | | HT/VHT40, M8 to M15 | 2 | 5 | -53.9 | -51.1 | | -44.3 | -21.25 | 23.0 |
| HT/VHT40 Beam Forming, M0 to M7 Hackline | 50 | HT/VHT40, M0 to M7 | 3 | 5 | -51.8 | -57.9 | -58.9 | -45.2 | -21.25 | 24.0 |
| HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 t | 55 | HT/VHT40, M8 to M15 | 3 | 5 | -53.9 | -51.1 | -56.9 | -43.6 | -21.25 | 22.3 |
| HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 HT/VHT40 STBC, M0 to M15 HT/VHT40 STBC, M0 t | | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -53.9 | -51.1 | | -41.3 | -21.25 | 20.0 |
| HT/VHT40 Beam Forming, M8 to M15 | | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -53.9 | -51.1 | | -44.3 | -21.25 | 23.0 |
| HT/VHT40 STBC, M0 to M7 The image of the | | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -52.8 | -57.4 | -58.0 | -40.6 | -21.25 | 19.4 |
| Non HT20, 6 to 54 Mbps 1 5 -58.3 -53.9 -53.1 -56.9 -43.6 -21.25 22.3 | | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -53.9 | -51.1 | -56.9 | -41.6 | -21.25 | 20.3 |
| Non HT20, 6 to 54 Mbps 1 5 -58.3 | | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -53.9 | -51.1 | | -44.3 | -21.25 | 23.0 |
| Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps 3 5 -56.9 -58.8 -53.1 -45.8 -21.25 24.6 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -57.2 -58.1 -46.6 -21.25 25.4 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.9 -58.8 -53.1 -40.8 -21.25 19.6 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 26.3 | | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -53.9 | -51.1 | -56.9 | -43.6 | -21.25 | 22.3 |
| Non HT20, 6 to 54 Mbps Non HT20, 6 to 54 Mbps 3 5 -56.9 -58.8 -53.1 -45.8 -21.25 24.6 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -57.2 -58.1 -46.6 -21.25 25.4 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.9 -58.8 -53.1 -40.8 -21.25 19.6 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 26.3 | | | | | | | | | | |
| Non HT20, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -57.2 -58.1 -46.6 -21.25 25.4 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.9 -58.8 -53.1 -40.8 -21.25 19.6 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 26.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -46.6 -21.25 26.3 | | Non HT20, 6 to 54 Mbps | 1 | 5 | -58.3 | | | -53.3 | -21.25 | 32.1 |
| Non HT20 Beam Forming, 6 to 54 Mbps Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -57.2 -58.1 -46.6 -21.25 25.4 | | Non HT20, 6 to 54 Mbps | 2 | 5 | -57.2 | -58.1 | | -49.6 | -21.25 | 28.4 |
| Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.9 -58.8 -53.1 -40.8 -21.25 19.6 HT/VHT20, M0 to M7 1 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M8 to M7 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 25.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -46.6 -21.25 25.3 | | Non HT20, 6 to 54 Mbps | 3 | 5 | -56.9 | -58.8 | -53.1 | -45.8 | -21.25 | 24.6 |
| HT/VHT20, M0 to M7 1 5 -58.0 | | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -57.2 | -58.1 | | -46.6 | -21.25 | 25.4 |
| HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20, M8 to M15 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 | | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -56.9 | -58.8 | -53.1 | -40.8 | -21.25 | 19.6 |
| HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 25.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 | 0 | HT/VHT20, M0 to M7 | 1 | 5 | -58.0 | | | -53.0 | -21.25 | 31.8 |
| HT/VHT20, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 HT/VHT20, M0 to M7 3 5 -60.5 -58.1 -58.3 -49.1 -21.25 27.8 HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 25.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 | 556 | HT/VHT20, M0 to M7 | 2 | 5 | -58.0 | -57.2 | | -49.6 | -21.25 | 28.3 |
| HT/VHT20, M8 to M15 3 5 -58.8 -55.3 -59.1 -47.6 -21.25 26.3 HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 25.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 | η) | HT/VHT20, M8 to M15 | 2 | 5 | -58.0 | -57.2 | | -49.6 | -21.25 | 28.3 |
| HT/VHT20 Beam Forming, M0 to M7 2 8 -58.0 -57.2 -46.6 -21.25 25.3 HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 | | HT/VHT20, M0 to M7 | 3 | 5 | -60.5 | -58.1 | -58.3 | -49.1 | -21.25 | 27.8 |
| HT/VHT20 Beam Forming, M8 to M15 2 5 -58.0 -57.2 -49.6 -21.25 28.3 | | HT/VHT20, M8 to M15 | 3 | 5 | -58.8 | -55.3 | -59.1 | -47.6 | -21.25 | 26.3 |
| | | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -58.0 | -57.2 | | -46.6 | -21.25 | 25.3 |
| HT/VHT20 Beam Forming, M0 to M7 3 10 -60.5 -58.1 -58.3 -44.1 -21.25 22.8 | | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -58.0 | -57.2 | | -49.6 | -21.25 | 28.3 |
| U, | | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -60.5 | -58.1 | -58.3 | -44.1 | -21.25 | 22.8 |

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| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -58.8 | -55.3 | -59.1 | -45.6 | -21.25 | 24.3 |
|------|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -58.0 | -57.2 | | -49.6 | -21.25 | 28.3 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -58.8 | -55.3 | -59.1 | -47.6 | -21.25 | 26.3 |
| | | | | | | | | | |
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -55.9 | | | -50.9 | -21.25 | 29.7 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -55.9 | -58.9 | | -49.1 | -21.25 | 27.9 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -57.9 | -56.2 | -57.2 | -47.3 | -21.25 | 26.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -55.9 | -58.9 | | -46.1 | -21.25 | 24.9 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -57.9 | -56.2 | -57.2 | -42.3 | -21.25 | 21.0 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -57.9 | | | -52.9 | -21.25 | 31.7 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -57.9 | -57.9 | | -49.9 | -21.25 | 28.6 |
| 99 | HT/VHT20, M8 to M15 | 2 | 5 | -57.9 | -57.9 | | -49.9 | -21.25 | 28.6 |
| 5660 | HT/VHT20, M0 to M7 | 3 | 5 | -58.0 | -57.8 | -56.3 | -47.5 | -21.25 | 26.3 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -57.9 | -57.9 | -57.9 | -48.1 | -21.25 | 26.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -57.9 | -57.9 | | -46.9 | -21.25 | 25.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -57.9 | -57.9 | | -49.9 | -21.25 | 28.6 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -58.0 | -57.8 | -56.3 | -42.5 | -21.25 | 21.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -57.9 | -57.9 | -57.9 | -46.1 | -21.25 | 24.9 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -57.9 | -57.9 | | -49.9 | -21.25 | 28.6 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -57.9 | -57.9 | -57.9 | -48.1 | -21.25 | 26.9 |
| | · | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -54.7 | | | -49.7 | -21.25 | 28.5 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -54.7 | -57.3 | | -47.8 | -21.25 | 26.5 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -57.4 | -58.5 | -59.2 | -48.5 | -21.25 | 27.3 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -53.4 | | | -48.4 | -21.25 | 27.2 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -53.4 | -57.6 | | -47.0 | -21.25 | 25.8 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -53.4 | -57.6 | | -47.0 | -21.25 | 25.8 |
| 0 | HT/VHT40, M0 to M7 | 3 | 5 | -53.5 | -58.4 | -59.4 | -46.5 | -21.25 | 25.3 |
| 5670 | HT/VHT40, M8 to M15 | 3 | 5 | -53.4 | -57.6 | -52.0 | -44.0 | -21.25 | 22.7 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -53.4 | -57.6 | | -44.0 | -21.25 | 22.8 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -53.4 | -57.6 | | -47.0 | -21.25 | 25.8 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -53.7 | -58.8 | -58.9 | -41.6 | -21.25 | 20.4 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -53.4 | -57.6 | -52.0 | -42.0 | -21.25 | 20.7 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -53.4 | -57.6 | 02.0 | -47.0 | -21.25 | 25.8 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -53.4 | -57.6 | -52.0 | -44.0 | -21.25 | 22.7 |
| | | | | | | 0_10 | | | |
| | Non HT80, 6 to 54 Mbps | 1 | 5 | -55.9 | | | -50.9 | -21.25 | 29.7 |
| | Non HT80, 6 to 54 Mbps | 2 | 5 | -55.9 | -55.9 | | -47.9 | -21.25 | 26.6 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | -55.9 | -55.9 | -56.7 | -46.4 | -21.25 | 25.1 |
| 5690 | VHT80, M0 to M9 1ss | 1 | 5 | -57.2 | 23.0 | 23 | -52.2 | -21.25 | 31.0 |
| 56 | VHT80, M0 to M9 1ss | 2 | 5 | -57.2 | -58.4 | | -49.7 | -21.25 | 28.5 |
| | VHT80, M0 to M9 2ss | 2 | 5 | -57.2 | -58.4 | | -49.7 | -21.25 | 28.5 |
| | VHT80, M0 to M9 1ss | 3 | 5 | -57.2 | -58.4 | -58.0 | -48.1 | -21.25 | 26.8 |
| | V11100, WIO to WIO 100 | U | J | 01.2 | UU.T | 00.0 | 70.1 | 21.20 | 20.0 |

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| VHT80 Beam Forming, M0 to M9 1ss VHT80 Beam Forming, M0 to M9 2ss VHT80 Beam Forming, M0 to M9 1ss VHT80 Beam Forming, M0 to M9 1ss 3 10 59.7 57.6 58.4 4.37, 2:125 28.5 VHT80 Beam Forming, M0 to M9 2ss 3 7 57.2 58.4 58.0 46.1 2:125 22.5 VHT80 STBC, M0 to M9 1ss 3 7 57.2 58.4 58.0 46.1 2:125 24.8 VHT80 STBC, M0 to M9 1ss 3 5 57.2 58.4 58.0 46.1 2:125 28.5 VHT80 STBC, M0 to M9 1ss 3 5 57.2 58.4 58.0 46.1 2:125 28.5 VHT80 STBC, M0 to M9 1ss 3 5 57.2 58.4 58.0 48.1 2:125 26.8 Non H720, 6 to 54 Mbps 1 5 58.4 58.0 58.0 48.1 2:125 27.2 Non H720, 6 to 54 Mbps 3 5 56.8 58.3 56.6 47.4 2:125 27.2 Non H720, 6 to 54 Mbps 3 5 56.8 58.3 56.6 47.4 2:125 27.2 Non H720 Beam Forming, 6 to 54 Mbps 3 5 56.8 58.3 56.6 47.4 2:125 27.2 Non H720, M0 to M7 1 5 5 56.3 57.5 48.8 21.25 27.6 HT/VH720, M0 to M7 1 5 5 56.3 57.5 48.8 21.25 27.6 HT/VH720, M0 to M7 2 5 5 56.3 57.5 48.8 21.25 27.6 HT/VH720, M0 to M7 3 5 57.6 56.5 57.0 47.2 2:125 26.4 HT/VH720, M0 to M7 3 5 57.6 56.5 57.0 47.2 2:125 26.6 HT/VH720 Beam Forming, M0 to M7 2 8 56.3 57.5 48.8 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.6 56.5 57.0 47.2 2:125 26.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.3 59.9 55.9 42.6 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.6 56.5 57.0 47.2 2:125 26.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.8 56.3 57.5 48.8 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.8 56.3 57.5 48.8 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.8 56.3 57.5 48.8 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.8 56.3 57.5 48.8 2:125 27.6 HT/VH720 Beam Forming, M0 to M7 3 5 57.8 56.3 57.5 48.8 2:125 27.6 HT/VH740, M0 to M7 4 5 5 57.2 57.8 58.4 49.5 2:125 28.2 HT/VH740, M0 to M7 5 5 57.2 57.8 58.4 49.5 2:125 28.2 HT/VH740, M0 to M7 5 5 57.2 57.8 48.8 2:125 27.6 HT/VH740 Beam Forming, M0 to M7 5 5 57.2 57.8 58.4 49.5 2:125 28.2 HT/VH740 Beam Forming, M0 to M7 5 5 57.2 57.8 58.4 49.5 2:125 28.2 HT/VH740 Beam Forming, M0 to M7 5 5 57.2 57.8 58.4 68.5 57.2 57.5 58.4 58.2 HT/VH740 Beam Forming, M0 to M7 5 5 57.2 57.8 58.4 68.5 57.2 57.5 58.4 58.5 57.2 57.5 58.4 58.5 | | | | | | | | | | |
|--|----|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| VHT80 Beam Forming, M0 to M9 2ss VHT80 Beam Forming, M0 to M9 1ss VHT80 Beam Forming, M0 to M9 1ss 3 10 -59.7 -57.6 -58.4 -49.7 -21.25 22.5 22.5 VHT80 Beam Forming, M0 to M9 2ss 3 7 -57.2 -58.4 -58.0 -46.1 -21.25 24.8 VHT80 STBC, M0 to M9 1ss 2 5 -57.2 -58.4 -58.0 -48.1 -21.25 28.5 VHT80 STBC, M0 to M9 1ss 3 5 -57.2 -58.4 -58.0 -48.1 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 3 5 -57.2 -58.4 -58.0 -48.1 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 3 5 -57.2 -58.4 -58.0 -48.1 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 4 5 -56.1 -56.8 -48.4 -49.7 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 5 -56.1 -56.8 -48.4 -49.7 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 5 -56.1 -56.8 -48.4 -49.7 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 5 -56.1 -56.8 -48.4 -49.7 -21.25 26.8 VHT80 STBC, M0 to M9 1ss 5 -56.1 -56.8 -48.4 -49.7 -21.25 26.8 VHT80 STBC, M0 to M4 -21.25 27.2 VHT80 STBC, M0 to M5 4 Mbps 7 -56.8 -56.8 -58.3 -56.6 -47.4 -21.25 27.2 VHT80 STBC, M0 to M5 4 Mbps 7 -56.8 -56.8 -58.3 -56.6 -47.4 -21.25 27.2 VHT80 STBC, M0 to M7 -1 -5 -56.8 -56.8 -58.3 -56.6 -42.4 -21.25 24.2 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -56.3 -57.5 -48.8 -21.25 27.6 VHT80 STBC, M0 to M7 -1 -5 -57.8 -57.6 -56.5 -57.0 -47.2 -21.25 26.4 VHTVHT20 STBC, M0 to M7 -1 -5 -57.8 -57.6 -56.5 -57.0 -47.2 -21.25 26.4 VHTVHT20 STBC, M0 to M7 -1 -5 -57.8 -57.6 -56.5 -57.0 -47.2 -21.25 26.4 VHTVHT40, M8 to M15 -1 -5 -57.8 -57.2 -57.8 -48.8 -21.25 27.6 VHTVHT40, M8 to M15 -1 -5 -57.2 -57.8 -57.5 -48.8 -21.25 27.6 VHTVHT40, M0 to M7 -1 -5 -57.2 -57.8 -57.5 -48.8 -21.25 27.6 VHTVHT40, M8 to M15 -1 -5 -57.2 -57.8 -57.2 -57.5 -49.5 -21.25 28.2 VHTVHT40, M8 to M15 -1 -5 -57.2 -57.8 -56.3 -57.5 -47.0 -21.25 28.2 VHTVHT40, M8 to M15 -1 -5 -57.2 -57.8 -56.3 -57.5 -47.0 -21.25 28.2 VHTVHT40, M8 to M15 -1 -5 -57.2 -57.8 -49.5 -21.25 28.2 VHTVH | | VHT80, M0 to M9 2ss | 3 | 5 | -57.2 | -58.4 | -58.0 | -48.1 | -21.25 | 26.8 |
| VHT80 Beam Forming, M0 to M9 1ss VHT80 Beam Forming, M0 to M9 2ss VHT80 STBC, M0 to M9 1ss VHT80 STBC, M0 to M9 1ss STBC, M0 to M4 to L125 STBC, M0 to M120, 6 to 54 Mbps STBC, M0 to M120, 6 to 54 Mbps STBC, M0 to M2 to L125 STBC, M0 to M3 to L125 STBC, M0 to M4 to L125 STBC, M0 to M7 | | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -57.2 | -58.4 | | -46.7 | -21.25 | 25.5 |
| VHT80 Beam Forming, M0 to M9 2ss VHT80 STBC, M0 to M9 1ss 2 5 -57.2 -58.4 -58.0 -46.1 -21.25 28.5 VHT80 STBC, M0 to M9 1ss 2 5 -57.2 -58.4 -58.0 -48.1 -21.25 28.5 VHT80 STBC, M0 to M9 1ss 3 5 -57.2 -58.4 -58.0 -48.1 -21.25 28.5 Non HT20, 6 to 54 Mbps 1 5 -58.4 -58.8 -58.4 -48.1 -21.25 27.2 Non HT20, 6 to 54 Mbps 2 5 -56.1 -56.8 -58.3 -56.6 -47.4 -21.25 27.2 Non HT20, 6 to 54 Mbps 3 5 -56.8 -58.3 -56.6 -47.4 -21.25 27.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.8 -58.3 -56.6 -42.4 -21.25 22.1 HT/VHT20, M0 to M7 1 5 -56.3 -57.5 -48.8 -21.25 21.1 HT/VHT20, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20, M0 to M7 3 5 -57.3 -59.9 -55.9 -47.6 -21.25 26.4 HT/VHT20, M0 to M7 3 5 -57.3 -59.9 -55.9 -47.6 -21.25 26.4 HT/VHT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 2 9 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 2 1 -57.3 -59.9 -55.9 -47.6 -21.25 26.4 HT/VHT20 Beam Forming, M8 to M15 2 1 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 2 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M8 to M15 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 HT/VHT20 Beam Forming, M8 to M15 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 HT/VHT20 Beam Forming, M8 to M15 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 HT/VHT20 Beam Forming, M8 to M15 3 5 -57.8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT40 Beam Forming, M8 to M15 3 5 -57.8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT40, M0 to M7 3 5 -57.8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT40, M0 to M7 3 5 -57.8 -56.3 -57.5 -48.8 -21.25 28.2 HT/VHT40, M0 to M7 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 6 -57.2 -57.8 -49.5 -21.25 28 | | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -57.2 | -58.4 | | -49.7 | -21.25 | 28.5 |
| VHT80 STBC, M0 to M9 1ss 2 5 -57.2 -58.4 -49.7 -21.25 28.5 VHT80 STBC, M0 to M9 1ss 3 5 -57.2 -58.4 -58.0 -48.1 -21.25 26.8 Non HT20, 6 to 54 Mbps 1 5 -58.4 -58.0 -48.1 -21.25 26.8 Non HT20, 6 to 54 Mbps 2 5 -56.1 -56.8 -48.4 -21.25 27.2 Non HT20, 6 to 54 Mbps 3 5 -56.8 -56.8 -48.4 -21.25 27.2 Non HT20, 6 to 54 Mbps 3 5 -56.8 -56.8 -48.4 -21.25 27.2 Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -56.1 -56.8 -46.4 -21.25 24.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.8 -58.3 -56.6 -42.4 -21.25 24.2 Non HT20, M0 to M7 1 5 -56.3 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20, M8 to M15 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20, M8 to M15 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 HT/VHT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M0 to M7 3 10 -57.3 -59.9 -55.9 -42.6 -21.25 24.0 HT/VHT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -47.2 -21.25 24.0 HT/VHT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -47.2 -21.25 24.0 HT/VHT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -47.2 -21.25 24.0 HT/VHT20 STBC, M0 to M7 2 5 -56.3 -57.5 -48.8 21.25 27.6 Non HT40, 6 to 54 Mbps 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 3 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M0 to M7 2 6 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, | | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -59.7 | -57.6 | -58.4 | -43.7 | -21.25 | 22.5 |
| Non HT20, 6 to 54 Mbps | | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -57.2 | -58.4 | -58.0 | -46.1 | -21.25 | 24.8 |
| Non HT20, 6 to 54 Mbps | | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -57.2 | -58.4 | | -49.7 | -21.25 | 28.5 |
| Non HT20, 6 to 54 Mbps | | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -57.2 | -58.4 | -58.0 | -48.1 | -21.25 | 26.8 |
| Non HT20, 6 to 54 Mbps | | | | | | | | | | |
| Non HT20, 6 to 54 Mbps | | Non HT20, 6 to 54 Mbps | 1 | 5 | -58.4 | | | -53.4 | -21.25 | 32.2 |
| Non HT20 Beam Forming, 6 to 54 Mbps 2 8 -56.1 -56.8 -45.4 -21.25 24.2 Non HT20 Beam Forming, 6 to 54 Mbps 3 10 -56.8 -58.3 -56.6 -42.4 -21.25 21.1 HT//HT20, M0 to M7 1 5 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20, M8 to M15 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20, M8 to M15 3 5 -57.3 -59.9 -55.9 -47.6 -21.25 26.4 HT//HT20, M8 to M15 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 HT//HT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20 Beam Forming, M0 to M7 3 10 -57.3 -59.9 -55.9 -42.6 -21.25 24.0 HT//HT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -45.2 -21.25 24.0 HT//HT20 STBC, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20 STBC, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT//HT20 STBC, M0 to M7 2 5 -57.8 -56.5 -57.0 -47.2 -21.25 26.0 HT//HT40, M0 to M7 1 5 -57.8 -58.2 -50.0 -21.25 28.7 HT//HT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT//HT40, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT//HT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT//HT40, M8 to M15 3 5 -57.2 -57.8 -46.5 -21.25 25.3 HT//HT40, M8 to M15 3 5 -57.2 -57.8 -46.5 -21.25 25.3 HT//HT40, Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 25.2 HT//HT40, Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 25.2 HT//HT40, Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 25.2 HT//HT40, Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 25.2 HT//HT40, Beam Forming, M8 to M15 2 5 -57.2 -57.8 -40.5 -21.25 25.2 HT//HT40, Beam Forming, M8 to M15 | | Non HT20, 6 to 54 Mbps | 2 | 5 | -56.1 | -56.8 | | -48.4 | -21.25 | 27.2 |
| Non HT20 Beam Forming, 6 to 54 Mbps | | Non HT20, 6 to 54 Mbps | 3 | 5 | -56.8 | -58.3 | -56.6 | -47.4 | -21.25 | 26.1 |
| HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M8 to M15 | | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -56.1 | -56.8 | | -45.4 | -21.25 | 24.2 |
| HT/VHT20, M0 to M7 | | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -56.8 | -58.3 | -56.6 | -42.4 | -21.25 | 21.1 |
| HT/VHT20, M8 to M15 | | HT/VHT20, M0 to M7 | 1 | 5 | -56.3 | | | -51.3 | -21.25 | 30.1 |
| HT/VHT20, M0 to M7 HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming | | HT/VHT20, M0 to M7 | 2 | 5 | -56.3 | -57.5 | | -48.8 | -21.25 | 27.6 |
| HT/VHT20, M8 to M15 HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M15 HT/VHT20 STBC, M0 to M15 | 00 | HT/VHT20, M8 to M15 | 2 | 5 | -56.3 | -57.5 | | -48.8 | -21.25 | 27.6 |
| HT/VHT20 Beam Forming, M0 to M7 2 8 -56.3 -57.5 -45.8 -21.25 24.6 HT/VHT20 Beam Forming, M8 to M15 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M0 to M7 3 10 -57.3 -59.9 -55.9 -42.6 -21.25 21.4 HT/VHT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -45.2 -21.25 24.0 HT/VHT20 STBC, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 STBC, M0 to M7 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 Non HT40, 6 to 54 Mbps 1 5 -57.8 -58.2 -50.0 -47.2 -21.25 28.7 Non HT40, 6 to 54 Mbps 3 5 -57.8 -58.2 -50.0 -21.25 28.7 Non HT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.8 HT/VHT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 3 5 -56.8 -57.2 -57.8 -46.5 -21.25 25.3 HT/VHT40, M8 to M15 3 5 -56.8 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -46.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 3 10 -56.8 -57.2 -57.8 -54.6 -44.5 -21.25 28.2 HT/VHT40 STBC, M0 to M7 3 10 -56.8 -57.2 -57.8 -54.6 -44.5 -21.25 28.2 | 57 | HT/VHT20, M0 to M7 | 3 | 5 | -57.3 | -59.9 | -55.9 | -47.6 | -21.25 | 26.4 |
| HT/VHT20 Beam Forming, M8 to M15 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 Beam Forming, M0 to M7 3 10 -57.3 -59.9 -55.9 -42.6 -21.25 21.4 HT/VHT20 Beam Forming, M8 to M15 3 7 -57.6 -56.5 -57.0 -45.2 -21.25 24.0 HT/VHT20 STBC, M0 to M7 2 5 -56.3 -57.5 -48.8 -21.25 27.6 HT/VHT20 STBC, M0 to M7 3 5 -57.6 -56.5 -57.0 -47.2 -21.25 26.0 Non HT40, 6 to 54 Mbps 1 5 -57.8 -58.2 -50.0 -21.25 28.7 Non HT40, 6 to 54 Mbps 3 5 -56.7 -56.3 -57.5 -47.0 -21.25 25.8 HT/VHT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M0 to M7 1 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 3 5 -56.8 -57.2 -57.8 -44.6 -46.5 -21.25 25.3 HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -44.6 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -44.6 -46.5 -21.25 25.3 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 4 2 5 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 | | HT/VHT20, M8 to M15 | 3 | 5 | -57.6 | -56.5 | -57.0 | -47.2 | -21.25 | 26.0 |
| HT/VHT20 Beam Forming, M0 to M7 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT20 STBC, M0 to M7 Beam Forming, M8 to M7 HT/VHT20 STBC, M0 to M7 HT/VHT40, 6 to 54 Mbps HT/VHT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/ | | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -56.3 | -57.5 | | -45.8 | -21.25 | 24.6 |
| HT/VHT20 Beam Forming, M8 to M15 HT/VHT20 STBC, M0 to M7 HT/VHT40, 6 to 54 Mbps HT/VHT40, 6 to 54 Mbps HT/VHT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, | | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -56.3 | -57.5 | | -48.8 | -21.25 | 27.6 |
| HT/VHT20 STBC, M0 to M7 The image | | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -57.3 | -59.9 | -55.9 | -42.6 | -21.25 | 21.4 |
| Non HT40, 6 to 54 Mbps | | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -57.6 | -56.5 | -57.0 | -45.2 | -21.25 | 24.0 |
| Non HT40, 6 to 54 Mbps 1 | | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -56.3 | -57.5 | | -48.8 | -21.25 | 27.6 |
| Non HT40, 6 to 54 Mbps 2 5 -57.8 -58.2 -50.0 -21.25 28.7 | | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -57.6 | -56.5 | -57.0 | -47.2 | -21.25 | 26.0 |
| Non HT40, 6 to 54 Mbps 2 5 -57.8 -58.2 -50.0 -21.25 28.7 | | | | | | | | | | |
| Non HT40, 6 to 54 Mbps HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 | | Non HT40, 6 to 54 Mbps | 1 | 5 | -57.8 | | | -52.8 | -21.25 | 31.6 |
| HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 Beam Forming, M8 to M15 HT/VHT40 STBC, M0 to M7 | | Non HT40, 6 to 54 Mbps | 2 | 5 | -57.8 | -58.2 | | -50.0 | -21.25 | 28.7 |
| HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M0 to M7 3 5 -56.8 -57.2 -57.8 -47.4 -21.25 26.1 HT/VHT40, M8 to M15 3 5 -57.2 -57.8 -54.6 -46.5 -21.25 25.3 HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -40.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 | | Non HT40, 6 to 54 Mbps | 3 | 5 | -56.7 | -56.3 | -57.5 | -47.0 | -21.25 | 25.8 |
| HT/VHT40, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40, M0 to M7 3 5 -56.8 -57.2 -57.5 -47.4 -21.25 26.1 HT/VHT40, M8 to M15 3 5 -57.2 -57.8 -54.6 -46.5 -21.25 25.3 HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 | | HT/VHT40, M0 to M7 | 1 | 5 | -57.2 | | | -52.2 | -21.25 | 31.0 |
| HT/VHT40, M0 to M7 HT/VHT40, M8 to M15 HT/VHT40 Beam Forming, M0 to M7 HT/VHT40 STBC, M0 to M7 | | HT/VHT40, M0 to M7 | 2 | 5 | -57.2 | -57.8 | | -49.5 | -21.25 | 28.2 |
| HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | | HT/VHT40, M8 to M15 | 2 | 5 | -57.2 | -57.8 | | -49.5 | -21.25 | 28.2 |
| HT/VHT40 Beam Forming, M0 to M7 2 8 -57.2 -57.8 -46.5 -21.25 25.2 HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | 10 | HT/VHT40, M0 to M7 | 3 | 5 | -56.8 | -57.2 | -57.5 | -47.4 | -21.25 | 26.1 |
| HT/VHT40 Beam Forming, M8 to M15 2 5 -57.2 -57.8 -49.5 -21.25 28.2 HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | 22 | HT/VHT40, M8 to M15 | 3 | 5 | -57.2 | -57.8 | -54.6 | -46.5 | -21.25 | 25.3 |
| HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -57.2 | -57.8 | | -46.5 | | 25.2 |
| HT/VHT40 Beam Forming, M0 to M7 3 10 -56.8 -57.2 -57.5 -42.4 -21.25 21.1 HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | | | 2 | 5 | -57.2 | | | -49.5 | | 28.2 |
| HT/VHT40 Beam Forming, M8 to M15 3 7 -57.2 -57.8 -54.6 -44.5 -21.25 23.3 HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | | | | 10 | | | -57.5 | | | 21.1 |
| HT/VHT40 STBC, M0 to M7 2 5 -57.2 -57.8 -49.5 -21.25 28.2 | | | 3 | 7 | | | | -44.5 | -21.25 | 23.3 |
| | | | 2 | 5 | -57.2 | -57.8 | | -49.5 | -21.25 | 28.2 |
| HT/VHT40 STBC, M0 to M7 3 5 -57.2 -57.8 -54.6 -46.5 -21.25 25.3 | | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -57.2 | -57.8 | -54.6 | -46.5 | -21.25 | 25.3 |



| | Non HT20, 6 to 54 Mbps | 1 | 5 | -55.1 | | | -50.1 | -21.25 | 28.9 |
|----|-------------------------------------|---|----|-------|-------|-------|-------|--------|------|
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -57.6 | -59.1 | | -50.3 | -21.25 | 29.0 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -54.4 | -56.8 | -57.9 | -46.3 | -21.25 | 25.1 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -57.6 | -59.1 | | -47.3 | -21.25 | 26.0 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -54.4 | -56.8 | -57.9 | -41.3 | -21.25 | 20.1 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -58.2 | | | -53.2 | -21.25 | 32.0 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -58.2 | -56.3 | | -49.1 | -21.25 | 27.9 |
| 20 | HT/VHT20, M8 to M15 | 2 | 5 | -58.2 | -56.3 | | -49.1 | -21.25 | 27.9 |
| 57 | HT/VHT20, M0 to M7 | 3 | 5 | -55.4 | -57.1 | -57.9 | -46.9 | -21.25 | 25.7 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -59.0 | -58.4 | -56.5 | -48.1 | -21.25 | 26.8 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -58.2 | -56.3 | | -46.1 | -21.25 | 24.9 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -58.2 | -56.3 | | -49.1 | -21.25 | 27.9 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -55.4 | -57.1 | -57.9 | -41.9 | -21.25 | 20.7 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -59.0 | -58.4 | -56.5 | -46.1 | -21.25 | 24.8 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -58.2 | -56.3 | | -49.1 | -21.25 | 27.9 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -59.0 | -58.4 | -56.5 | -48.1 | -21.25 | 26.8 |



Conducted Spurs Peak, 5500 MHz, HT/VHT20 Beam Forming, M8 to M15





Antenna A

Antenna C

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Antenna B



A.4 Conducted Bandedge

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

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

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

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

Note:

The Intentional Beamforming correlated array gain for any number of space time streams is given by the general formula:

$$G_{bf_max} = 10*log10(N_{tx}/N_{sts})$$

where N_{tx} is the number of equal power active transmit antennas and N_{sts} is the number of active space time streams.

Test Procedure

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

Conducted Bandedge

Test Procedure

Trace = Max Hold.

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

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

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

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

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Radio Test Report No: **EDCS – 11496964**



| Tested By : | Date of testing: |
|--------------------|-----------------------|
| Jose Aguirre | 05-May-16 - 06-Jun-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment



| Frequency (MHz) | Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------------------|----------|----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|-------------|-------------|
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -57.1 | | | -52.1 | -41.25 | 10.9 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -57.1 | -56.2 | | -48.6 | -41.25 | 7.4 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -61.6 | -60.1 | -56.0 | -48.8 | -41.25 | 7.5 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -57.1 | -56.2 | | -45.6 | -41.25 | 4.4 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -61.6 | -60.1 | -56.0 | -43.8 | -41.25 | 2.5 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -57.5 | | | -52.5 | -41.25 | 11.3 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -57.5 | -56.1 | | -48.7 | -41.25 | 7.5 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | -57.5 | -56.1 | | -48.7 | -41.25 | 7.5 |
| 56 | HT/VHT20, M0 to M7 | 3 | 5 | -61.1 | -60.1 | -56.1 | -48.8 | -41.25 | 7.5 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -57.5 | -56.1 | -53.1 | -45.4 | -41.25 | 4.1 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -57.5 | -56.1 | | -45.7 | -41.25 | 4.5 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -57.5 | -56.1 | | -48.7 | -41.25 | 7.5 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -57.5 | -59.0 | -55.9 | -42.5 | -41.3 | 1.3 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -53.9 | -54.6 | -52.9 | -42.0 | -41.3 | 0.7 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -57.5 | -56.1 | | -48.7 | -41.25 | 7.5 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -57.5 | -56.1 | -53.1 | -45.4 | -41.25 | 4.1 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -50.0 | | | -45.0 | -41.25 | 3.8 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -50.0 | -54.4 | | -43.7 | -41.25 | 2.4 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -52.5 | -53.3 | -51.6 | -42.6 | -41.3 | 1.4 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -47.0 | | | -42.0 | -41.3 | 0.8 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -48.2 | -50.9 | | -41.3 | -41.3 | 0.1 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -48.2 | -50.9 | | -41.3 | -41.3 | 0.1 |
| 5510 | HT/VHT40, M0 to M7 | 3 | 5 | -54.0 | -54.2 | -50.4 | -42.7 | -41.3 | 1.5 |
| 55 | HT/VHT40, M8 to M15 | 3 | 5 | -54.0 | -54.2 | -50.4 | -42.7 | -41.3 | 1.5 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -53.6 | -53.3 | | -42.4 | -41.3 | 1.2 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -48.2 | -50.9 | | -41.3 | -41.3 | 0.1 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -57.4 | -58.2 | -53.9 | -41.3 | -41.3 | 0.1 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -56.4 | -56.6 | -51.6 | -42.4 | -41.3 | 1.2 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -48.2 | -50.9 | | -41.3 | -41.3 | 0.1 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -53.6 | -54.2 | -51.6 | -43.2 | -41.3 | 2.0 |

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| | Non HT80, 6 to 54 Mbps | 1 | 5 | -48.1 | | | -43.1 | -41.3 | 1.9 |
|----|----------------------------------|---|----|-------|-------|-------|-------|-------|-----|
| | Non HT80, 6 to 54 Mbps | 2 | 5 | -49.3 | -51.3 | | -42.2 | -41.3 | 0.9 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | -52.5 | -54.7 | -50.8 | -42.6 | -41.3 | 1.4 |
| | VHT80, M0 to M9 1ss | 1 | 5 | -48.7 | | | -43.7 | -41.3 | 2.5 |
| | VHT80, M0 to M9 1ss | 2 | 5 | -49.1 | -51.5 | | -42.1 | -41.3 | 0.9 |
| | VHT80, M0 to M9 2ss | 2 | 5 | -49.1 | -51.5 | | -42.1 | -41.3 | 0.9 |
| 30 | VHT80, M0 to M9 1ss | 3 | 5 | -51.5 | -53.8 | -50.4 | -41.9 | -41.3 | 0.7 |
| 55 | VHT80, M0 to M9 2ss | 3 | 5 | -51.5 | -53.8 | -50.4 | -41.9 | -41.3 | 0.7 |
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -51.5 | -53.8 | | -41.5 | -41.3 | 0.2 |
| | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -49.1 | -51.5 | | -42.1 | -41.3 | 0.9 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -58.6 | -57.3 | -53.9 | -41.4 | -41.3 | 0.1 |
| | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -54.7 | -56.5 | -51.3 | -41.8 | -41.3 | 0.6 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -49.1 | -51.5 | | -42.1 | -41.3 | 0.9 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -51.5 | -53.8 | -50.4 | -41.9 | -41.3 | 0.7 |

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Conducted Bandedge Average, 5500 MHz, HT/VHT20 Beam Forming, M8 to M15





Antenna A

Antenna B



Antenna C



Conducted Bandedge Average, 5510 MHz, HT/VHT40, M0 to M7





Antenna A Antenna B



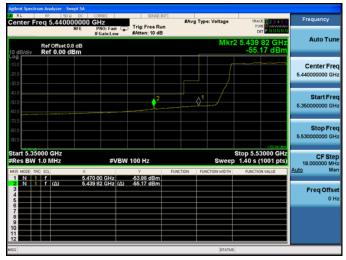
Conducted Bandedge Average, 5530 MHz, VHT80 Beam Forming, M0 to M9 1ss





Antenna A

Antenna B



Antenna C



| Frequency (MHz) | Mode | Tx Paths | Correlated Antenna Gain (dBi) | Tx 1 Bandedge Level (dBm) | Tx 2 Bandedge Level (dBm) | Tx 3 Bandedge Level (dBm) | Total Tx Bandedge Level (dBm) | Limit (dBm) | Margin (dB) |
|-----------------|-------------------------------------|----------|----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|-------------|-------------|
| | Non HT20, 6 to 54 Mbps | 1 | 5 | -42.7 | | | -37.7 | -21.25 | 16.5 |
| | Non HT20, 6 to 54 Mbps | 2 | 5 | -42.7 | -42.2 | | -34.4 | -21.25 | 13.2 |
| | Non HT20, 6 to 54 Mbps | 3 | 5 | -43.5 | -45.8 | -44.5 | -34.7 | -21.25 | 13.5 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 2 | 8 | -42.7 | -42.2 | | -31.4 | -21.25 | 10.2 |
| | Non HT20 Beam Forming, 6 to 54 Mbps | 3 | 10 | -43.5 | -45.8 | -44.5 | -29.7 | -21.25 | 8.5 |
| | HT/VHT20, M0 to M7 | 1 | 5 | -41.7 | | | -36.7 | -21.25 | 15.5 |
| | HT/VHT20, M0 to M7 | 2 | 5 | -41.7 | -42.0 | | -33.8 | -21.25 | 12.6 |
| 5500 | HT/VHT20, M8 to M15 | 2 | 5 | -41.7 | -42.0 | | -33.8 | -21.25 | 12.6 |
| 55 | HT/VHT20, M0 to M7 | 3 | 5 | -45.4 | -46.2 | -44.1 | -35.4 | -21.25 | 14.1 |
| | HT/VHT20, M8 to M15 | 3 | 5 | -41.7 | -42.0 | -41.4 | -31.9 | -21.25 | 10.7 |
| | HT/VHT20 Beam Forming, M0 to M7 | 2 | 8 | -41.7 | -42.0 | | -30.8 | -21.25 | 9.6 |
| | HT/VHT20 Beam Forming, M8 to M15 | 2 | 5 | -41.7 | -42.0 | | -33.8 | -21.25 | 12.6 |
| | HT/VHT20 Beam Forming, M0 to M7 | 3 | 10 | -45.4 | -46.2 | -44.1 | -30.4 | -21.25 | 9.1 |
| | HT/VHT20 Beam Forming, M8 to M15 | 3 | 7 | -41.7 | -42.0 | -41.4 | -29.9 | -21.25 | 8.7 |
| | HT/VHT20 STBC, M0 to M7 | 2 | 5 | -41.7 | -42.0 | | -33.8 | -21.25 | 12.6 |
| | HT/VHT20 STBC, M0 to M7 | 3 | 5 | -41.7 | -42.0 | -41.4 | -31.9 | -21.25 | 10.7 |
| | | | | | | | | | |
| | Non HT40, 6 to 54 Mbps | 1 | 5 | -36.0 | | | -31.0 | -21.25 | 9.8 |
| | Non HT40, 6 to 54 Mbps | 2 | 5 | -36.0 | -41.3 | | -29.9 | -21.25 | 8.6 |
| | Non HT40, 6 to 54 Mbps | 3 | 5 | -36.0 | -41.3 | -39.8 | -28.7 | -21.25 | 7.4 |
| | HT/VHT40, M0 to M7 | 1 | 5 | -31.5 | | | -26.5 | -21.25 | 5.3 |
| | HT/VHT40, M0 to M7 | 2 | 5 | -34.7 | -39.3 | | -28.4 | -21.25 | 7.2 |
| | HT/VHT40, M8 to M15 | 2 | 5 | -34.7 | -39.3 | | -28.4 | -21.25 | 7.2 |
| 10 | HT/VHT40, M0 to M7 | 3 | 5 | -34.7 | -39.3 | -39.5 | -27.5 | -21.25 | 6.2 |
| 5510 | HT/VHT40, M8 to M15 | 3 | 5 | -34.7 | -39.3 | -39.5 | -27.5 | -21.25 | 6.2 |
| | HT/VHT40 Beam Forming, M0 to M7 | 2 | 8 | -39.1 | -41.5 | | -29.1 | -21.25 | 7.9 |
| | HT/VHT40 Beam Forming, M8 to M15 | 2 | 5 | -34.7 | -39.3 | | -28.4 | -21.25 | 7.2 |
| | HT/VHT40 Beam Forming, M0 to M7 | 3 | 10 | -42.1 | -44.1 | -43.0 | -28.2 | -21.25 | 7.0 |
| | HT/VHT40 Beam Forming, M8 to M15 | 3 | 7 | -39.1 | -41.5 | -40.3 | -28.4 | -21.25 | 7.2 |
| | HT/VHT40 STBC, M0 to M7 | 2 | 5 | -34.7 | -39.3 | | -28.4 | -21.25 | 7.2 |
| | HT/VHT40 STBC, M0 to M7 | 3 | 5 | -34.7 | -39.3 | -39.5 | -27.5 | -21.25 | 6.2 |



| | Non HT80, 6 to 54 Mbps | 1 | 5 | -31.2 | | | -26.2 | -21.25 | 5.0 |
|------|----------------------------------|---|----|-------|-------|-------|-------|--------|-----|
| | Non HT80, 6 to 54 Mbps | 2 | 5 | -31.2 | -41.2 | | -25.8 | -21.25 | 4.5 |
| | Non HT80, 6 to 54 Mbps | 3 | 5 | -38.2 | -41.7 | -40.5 | -30.1 | -21.25 | 8.9 |
| | VHT80, M0 to M9 1ss | 1 | 5 | -35.3 | | | -30.3 | -21.25 | 9.1 |
| | VHT80, M0 to M9 1ss | 2 | 5 | -35.3 | -39.8 | | -29.0 | -21.25 | 7.7 |
| | VHT80, M0 to M9 2ss | 2 | 5 | -35.3 | -39.8 | | -29.0 | -21.25 | 7.7 |
| 5530 | VHT80, M0 to M9 1ss | 3 | 5 | -39.5 | -41.6 | -39.5 | -30.3 | -21.25 | 9.1 |
| 55 | VHT80, M0 to M9 2ss | 3 | 5 | -39.5 | -41.6 | -39.5 | -30.3 | -21.25 | 9.1 |
| | VHT80 Beam Forming, M0 to M9 1ss | 2 | 8 | -39.5 | -41.6 | | -29.4 | -21.25 | 8.2 |
| | VHT80 Beam Forming, M0 to M9 2ss | 2 | 5 | -35.3 | -39.8 | | -29.0 | -21.25 | 7.7 |
| | VHT80 Beam Forming, M0 to M9 1ss | 3 | 10 | -43.8 | -43.2 | -41.9 | -28.1 | -21.25 | 6.9 |
| | VHT80 Beam Forming, M0 to M9 2ss | 3 | 7 | -39.5 | -41.6 | -39.5 | -28.3 | -21.25 | 7.1 |
| | VHT80 STBC, M0 to M9 1ss | 2 | 5 | -35.3 | -39.8 | | -29.0 | -21.25 | 7.7 |
| | VHT80 STBC, M0 to M9 1ss | 3 | 5 | -39.5 | -41.6 | -39.5 | -30.3 | -21.25 | 9.1 |

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Conducted Bandedge Peak, 5530 MHz, Non HT80, 6 to 54 Mbps





Antenna A Antenna B





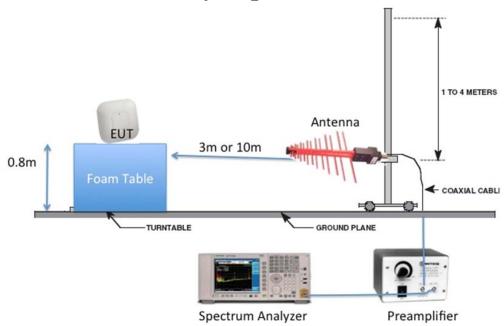
This is a dual band 2.4GHz / 5GHz device. All ports in this test set up photo are connected as all testing is automated. Section 2.6 of this test report given an overview of the different Tx antenna combinations used by this device.



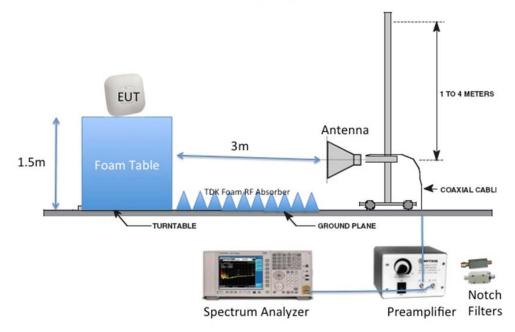
Appendix B: Emission Test Results

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

Radiated Emission Setup Diagram-Below 1G



Radiated Emission Setup Diagram-Above 1G



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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 for peak, 1 KHz for average

Detector: Peak

Terminate the access Point RF ports with 50 ohm loads.

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

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

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

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

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

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

| Tested By : | Date of testing: |
|--------------------|-----------------------|
| Jose Aguirre | 05-May-16 - 06-Jun-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment

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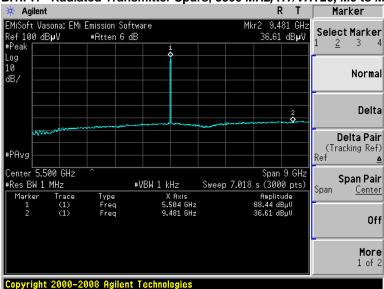
B.1.A Transmitter Radiated Spurious Emissions-Average Worst Case

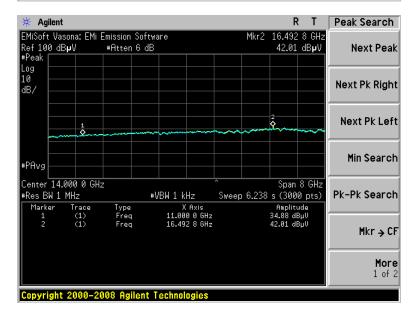
| | | | Spurious Emission | | |
|--------------------|---------------------|---------------------|----------------------|-------------------|----------------|
| Frequency (MHz) | Mode | Data Rate (Mbps) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
| 5500 | HT/VHT20, M0 to M15 | M0 | 42.1 | 54 | 11.9 |
| 5510 | HT/VHT40, M0 to M15 | M0 | 40.4 | 54 | 13.6 |
| 5530 | VHT80, M0 to M9 2ss | M0x1 | 40.1 | 54 | 13.9 |
| 5550 | HT/VHT40, M0 to M15 | M0 | 42 | 54 | 12 |
| 5560 | HT/VHT20, M0 to M15 | M0 | 40.2 | 54 | 13.8 |
| 5670 | HT/VHT40, M0 to M15 | M0 | 40.3 | 54 | 13.7 |
| 5690 | VHT80, M0 to M9 2ss | M0x1 | 40.3 | 54 | 13.7 |
| 5710 | HT/VHT40, M0 to M15 | M0 | 40.4 | 54 | 13.6 |
| 5720 | HT/VHT20, M0 to M15 | M0 | 40.2 | 54 | 13.8 |

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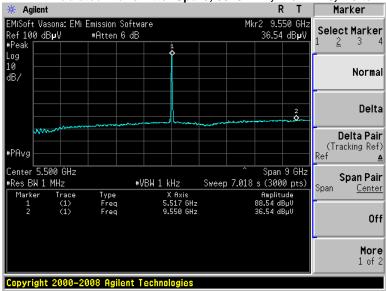
B.1.P.1 Radiated Transmitter Spurs, 5500 MHz, HT/VHT20, M0 to M23, Average (1-18GHz)

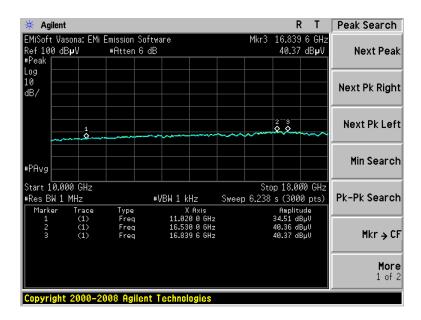






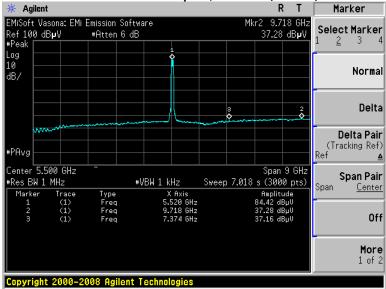
B.1.P.2 Radiated Transmitter Spurs, 5510 MHz, HT/VHT40, M0 to M23, Average (1-18GHz)

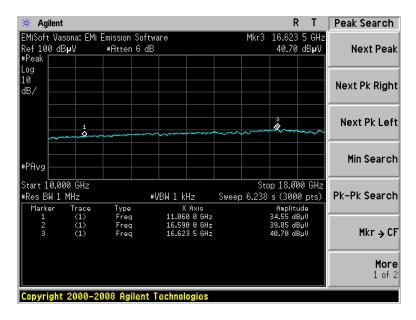






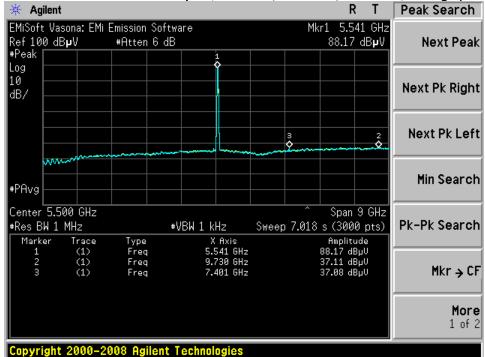
B.1.P.3 Radiated Transmitter Spurs, 5530 MHz, VHT80, M0.1 to M9.3, Average (1-18GHz) R T Marker

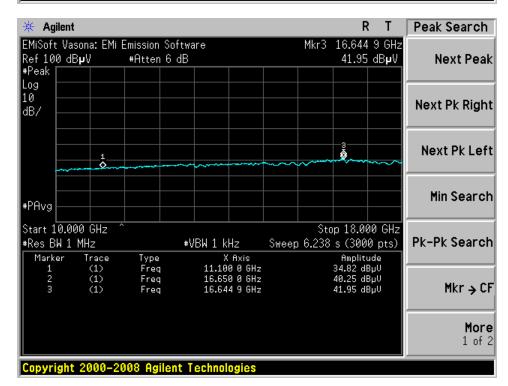






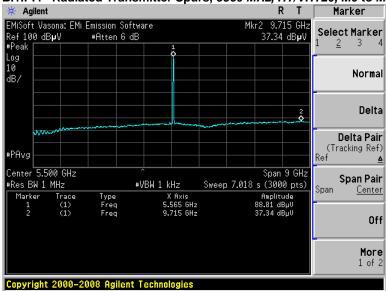


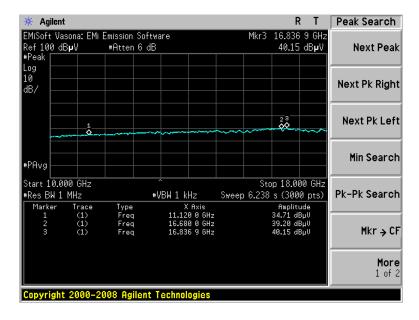






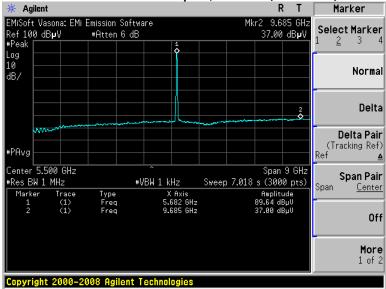
B.1.P.4 Radiated Transmitter Spurs, 5560 MHz, HT/VHT20, M0 to M23, Average (1-18GHz)

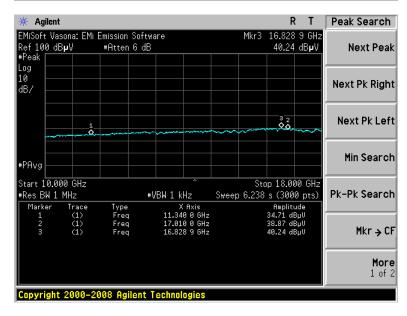






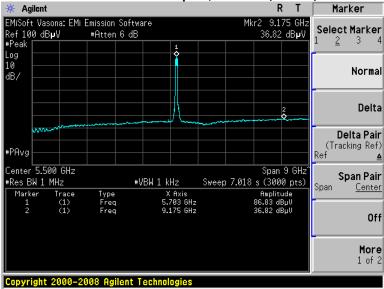
B.1.P.6 Radiated Transmitter Spurs, 5670 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Average (1-18GHz)

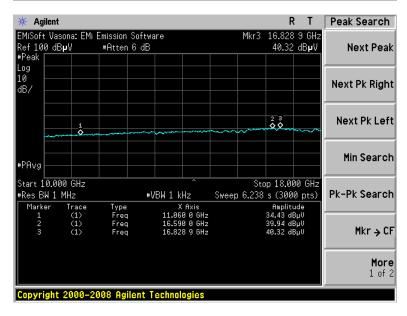






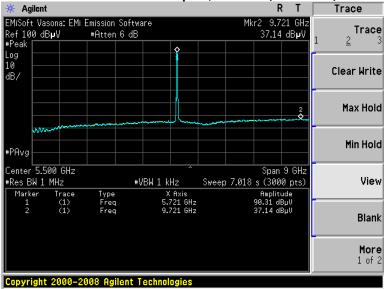
B.1.P.7 Radiated Transmitter Spurs, *5690 MHz, VHT80, M0.1 to M9.3*, Average (1-18GHz) # Agilent R T Marker

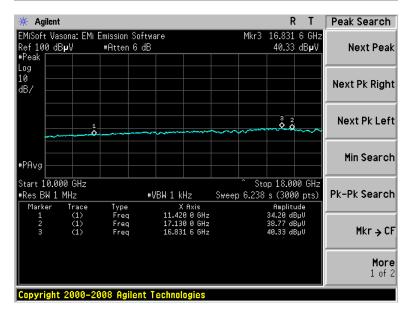






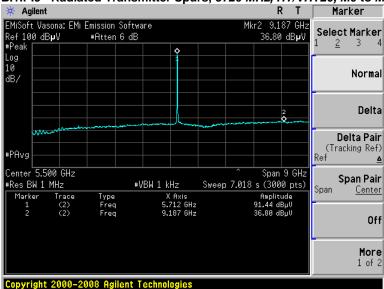
B.1.P.8 Radiated Transmitter Spurs, 5710 MHz, HT/VHT40, M0 to M23, Average (1-18GHz)

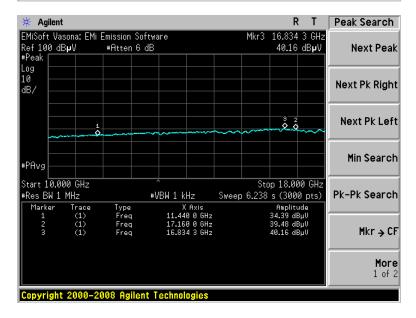




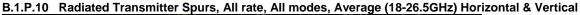


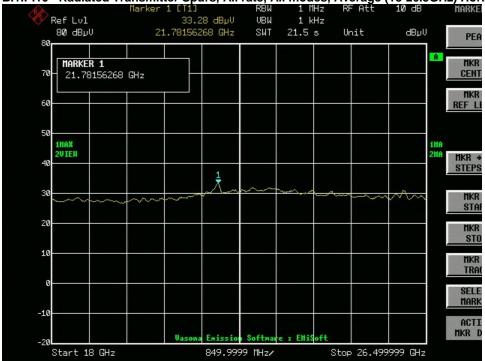
B.1.P.9 Radiated Transmitter Spurs, 5720 MHz, HT/VHT20, M0 to M23, Average (1-18GHz)



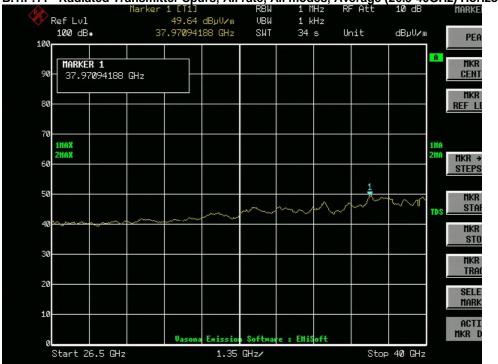








B.1.P.11 Radiated Transmitter Spurs, All rate, All modes, Average (26.5-40GHz) Horizontal & Vertical



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



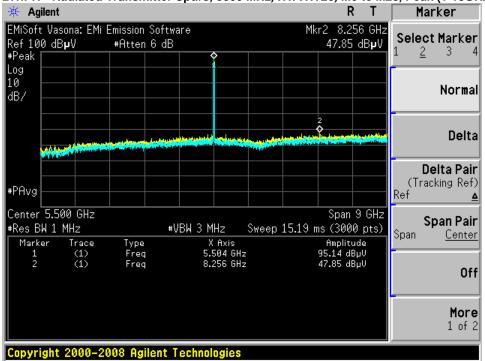
B.1.P Transmitter Radiated Spurious Emissions-Peak worst case

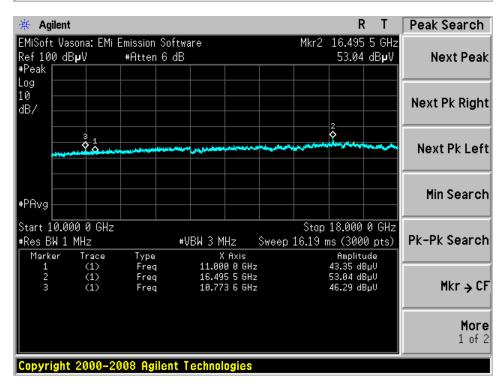
| | | | Spurious Emission | | |
|--------------------|---------------------|---------------------|----------------------|-------------------|----------------|
| Frequency (MHz) | Mode | Data Rate (Mbps) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) |
| 5500 | HT/VHT20, M0 to M15 | M0 | 53.1 | 74 | 20.9 |
| 5510 | HT/VHT40, M0 to M15 | M0 | 49.2 | 74 | 24.8 |
| 5530 | VHT80, M0 to M9 2ss | M0x1 | 50.2 | 74 | 23.8 |
| 5550 | HT/VHT40, M0 to M15 | M0 | 50.5 | 74 | 23.5 |
| 5560 | HT/VHT20, M0 to M15 | M0 | 51.2 | 74 | 22.8 |
| 5670 | HT/VHT40, M0 to M15 | M0 | 49.9 | 74 | 24.1 |
| 5690 | VHT80, M0 to M9 2ss | M0x1 | 49.8 | 74 | 24.2 |
| 5710 | HT/VHT40, M0 to M15 | M0 | 50.2 | 74 | 23.8 |
| 5720 | HT/VHT20, M0 to M15 | M0 | 49.9 | 74 | 24.1 |

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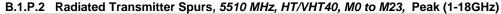


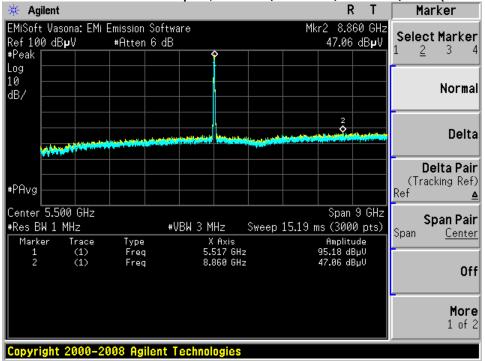


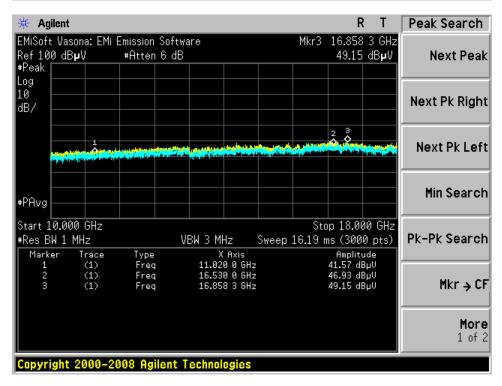




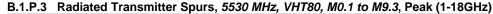


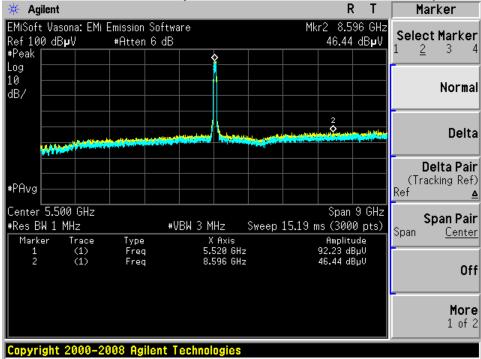


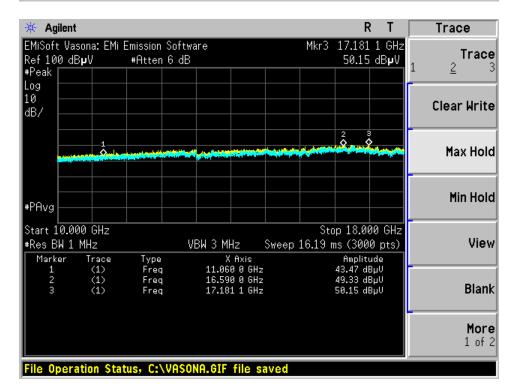






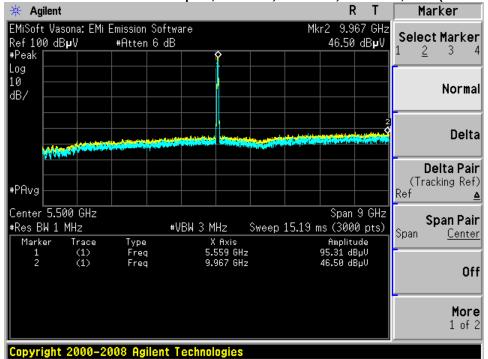


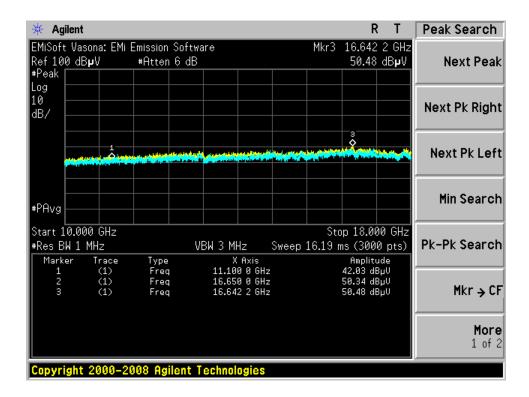






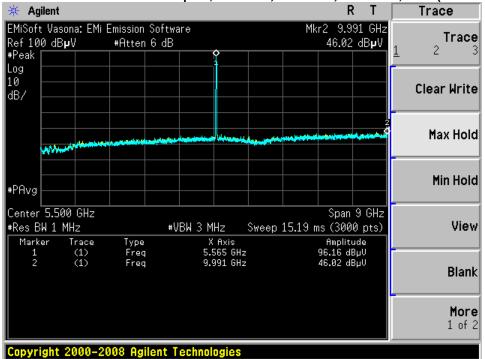


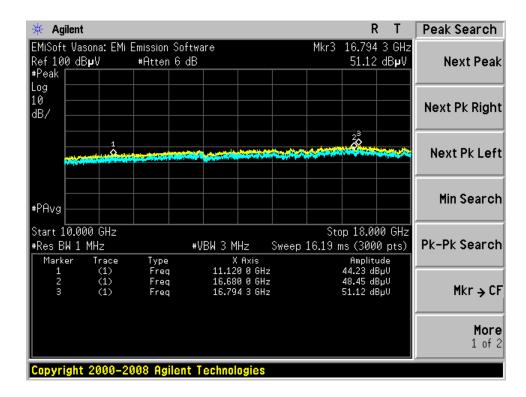






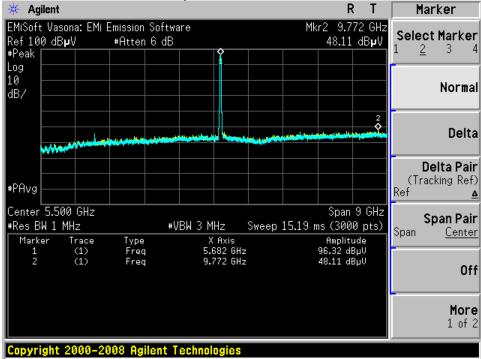


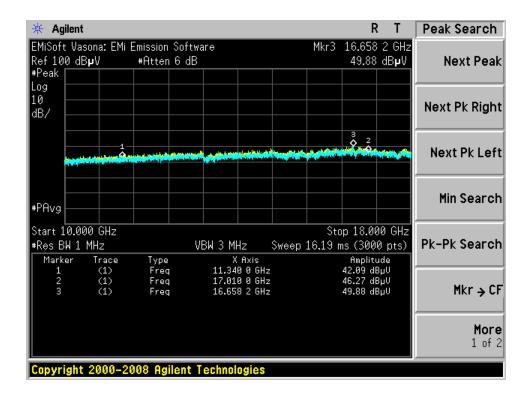




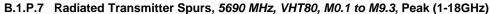


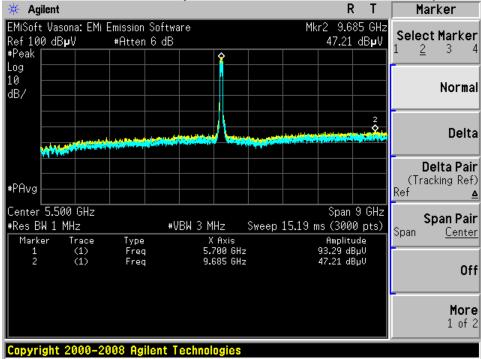
B.1.P.6 Radiated Transmitter Spurs, 5670 MHz, HT/VHT40, M0 to M23, M0.0 to M9.4, Peak (1-18GHz)

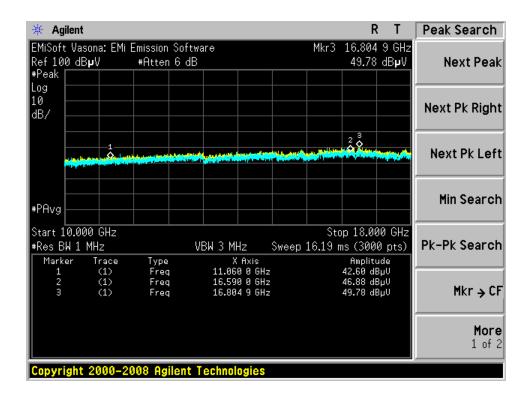




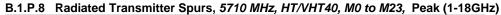


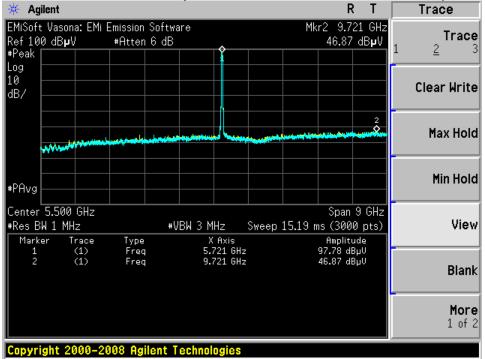


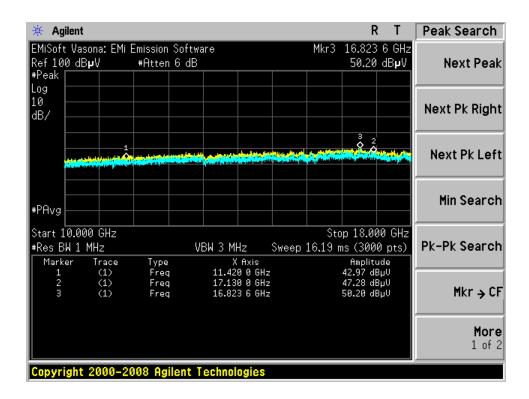




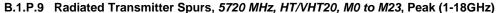


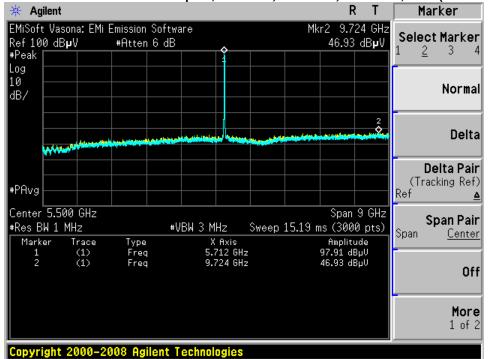


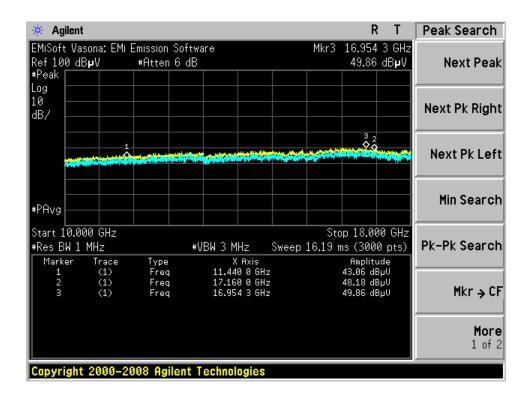






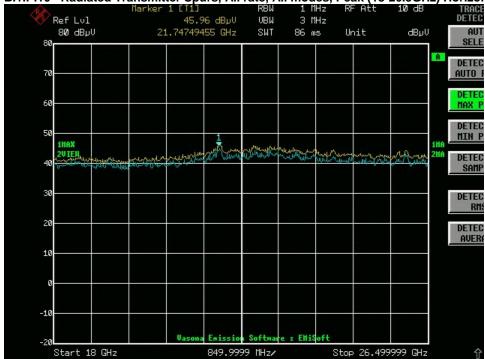




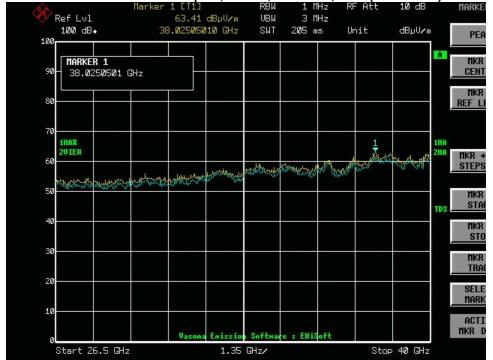








B.1.P.11 Radiated Transmitter Spurs, All rate, All modes, Peak (26.5-40GHz) Horizontal & Vertical



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

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B.2 Radiated Emissions 30MHz to 1GHz

FCC 15.205 / 15.209

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

Ref. ANSI C63.10: 2013 section 6.5

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

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

Detector: Peak for Pre-scan, Quasi-Peak

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

detection.

Terminate the access Point RF ports with 50 ohm loads.

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

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

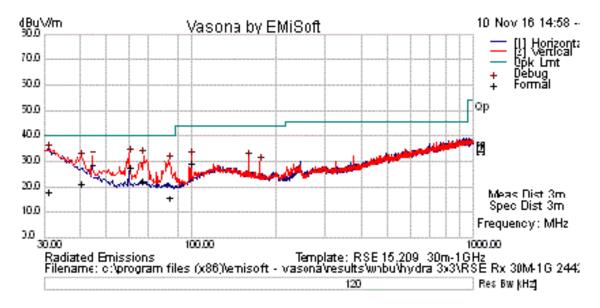
| System Number | Description | Samples | System under test | Support equipment |
|------------------|-------------|---------|-------------------|-------------------|
| 4 | EUT | S01 | \checkmark | |
| 1 | Support | S02 | | √ |

| Tested By : | Date of testing: |
|--------------------|------------------|
| Jose Aguirre | 10-Nov-16 |
| Test Result : PASS | |

See Appendix C for list of test equipment

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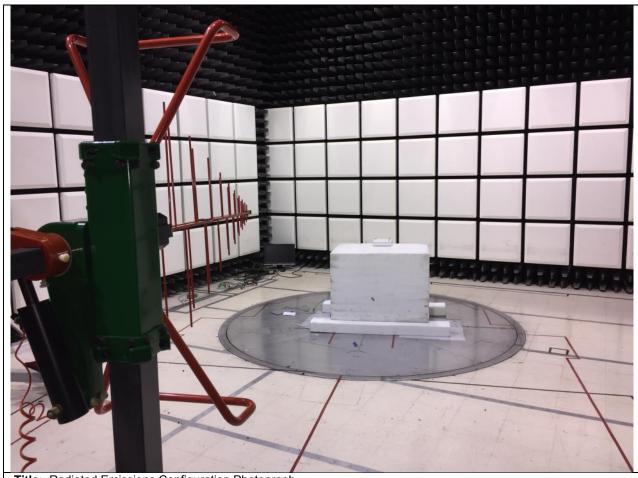




Test Results Table

| rest Result | Test results Table | | | | | | | | | | |
|-------------|--------------------|-------|------|--------|-------------|-----|-----|-----|--------|--------|-------|
| Frequency | Raw | Cable | AF | Level | Measurement | Pol | Hgt | Azt | Limit | Margin | Pass |
| MHz | dBuV | Loss | dB | dBuV/m | Туре | | cm | Deg | dBuV/m | dB | /Fail |
| 30.97 | -2.9 | 0.5 | 20.7 | 18.2 | Quasi Max | Н | 222 | 186 | 40 | -21.8 | Pass |
| 60.003 | 19.6 | 0.7 | 7.4 | 27.7 | Quasi Max | V | 146 | 171 | 40 | -12.3 | Pass |
| 66.358 | 14 | 0.7 | 8 | 22.6 | Quasi Max | V | 145 | 39 | 40 | -17.4 | Pass |
| 44.236 | 17.2 | 0.6 | 10.8 | 28.6 | Quasi Max | V | 105 | 280 | 40 | -11.4 | Pass |
| 40.185 | 6.9 | 0.5 | 13.9 | 21.3 | Quasi Max | ٧ | 115 | 85 | 40 | -18.7 | Pass |
| 83.35 | 7.2 | 0.8 | 7.5 | 15.4 | Quasi Max | ٧ | 139 | 228 | 40 | -24.6 | Pass |
| 100 | 18.4 | 0.8 | 10.2 | 29.4 | Quasi Max | V | 124 | 352 | 43.5 | -14.1 | Pass |





Title: Radiated Emissions Configuration Photograph



B.3 AC Conducted Emissions

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

Measurement Procedure

Accordance with ANSI C63.10:2013 section 6.2

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

Span: 150 KHz – 30 MHz

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

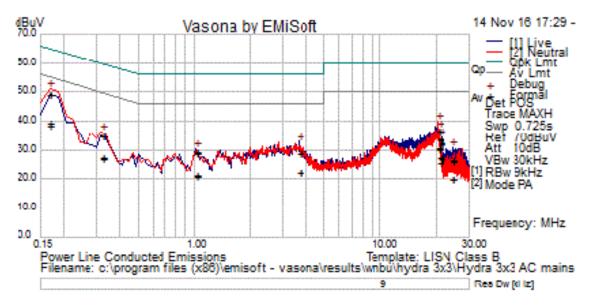
Detector: Quasi-Peak / Average

| System Number | Description | Samples | System under test | Support equipment |
|------------------|-------------|---------|-------------------|-------------------|
| 4 | EUT | S01 | Ŋ | |
| 1 | Support | S02 | | \checkmark |

| Tested By : | Date of testing: |
|--------------------|------------------|
| Jose Aguirre | 14-Nov-16 |
| Test Result : PASS | |

See separate EMC test report for test data.





Test Results Table

| Frequency | Raw | Cable | Factors | Level | Measurement | Line | Limit | Margin | Pass |
|-----------|------|-------|---------|-------|-------------|---------|-------|--------|-------|
| MHz | dBuV | Loss | dB | dBuV | Туре | | dBuV | dB | /Fail |
| 24.552 | 5.6 | 20.5 | 0.3 | 26.4 | Quasi Peak | Live | 60 | -33.6 | Pass |
| 1.027 | 9 | 20 | 0 | 29 | Quasi Peak | Live | 56 | -27 | Pass |
| 20.421 | 15.7 | 20.4 | 0.2 | 36.4 | Quasi Peak | Live | 60 | -23.6 | Pass |
| 0.169 | 28 | 21.2 | 0.1 | 49.3 | Quasi Peak | Live | 65 | -15.7 | Pass |
| 21.145 | 11.6 | 20.4 | 0.2 | 32.3 | Quasi Peak | Live | 60 | -27.7 | Pass |
| 3.657 | 8.6 | 20.1 | 0.1 | 28.7 | Quasi Peak | Live | 56 | -27.3 | Pass |
| 20.668 | 12.9 | 20.4 | 0.2 | 33.6 | Quasi Peak | Live | 60 | -26.4 | Pass |
| 0.324 | 14.3 | 20.5 | 0.1 | 34.9 | Quasi Peak | Live | 59.6 | -24.7 | Pass |
| 0.324 | 14.4 | 20.5 | 0.1 | 34.9 | Quasi Peak | Neutral | 59.6 | -24.7 | Pass |
| 20.668 | 13.3 | 20.4 | 0.2 | 34 | Quasi Peak | Neutral | 60 | -26 | Pass |
| 21.145 | 11.8 | 20.4 | 0.2 | 32.5 | Quasi Peak | Neutral | 60 | -27.5 | Pass |
| 0.169 | 27.9 | 21.2 | 0.1 | 49.2 | Quasi Peak | Neutral | 65 | -15.8 | Pass |
| 1.027 | 9.1 | 20 | 0 | 29.2 | Quasi Peak | Neutral | 56 | -26.8 | Pass |
| 24.552 | 5.3 | 20.5 | 0.3 | 26.1 | Quasi Peak | Neutral | 60 | -33.9 | Pass |
| 20.421 | 15.9 | 20.4 | 0.2 | 36.6 | Quasi Peak | Neutral | 60 | -23.4 | Pass |
| 3.657 | 8.6 | 20.1 | 0.1 | 28.7 | Quasi Peak | Neutral | 56 | -27.3 | Pass |
| 24.552 | -0.5 | 20.5 | 0.3 | 20.3 | Average | Live | 50 | -29.7 | Pass |
| 1.027 | 1.2 | 20 | 0 | 21.3 | Average | Live | 46 | -24.7 | Pass |
| 20.421 | 9.9 | 20.4 | 0.2 | 30.6 | Average | Live | 50 | -19.4 | Pass |
| 0.169 | 18 | 21.2 | 0.1 | 39.3 | Average | Live | 55 | -15.7 | Pass |
| 21.145 | 6.3 | 20.4 | 0.2 | 26.9 | Average | Live | 50 | -23.1 | Pass |
| 3.657 | 2.2 | 20.1 | 0.1 | 22.3 | Average | Live | 46 | -23.7 | Pass |
| 20.668 | 5.1 | 20.4 | 0.2 | 25.8 | Average | Live | 50 | -24.2 | Pass |
| 0.324 | 6.6 | 20.5 | 0.1 | 27.2 | Average | Live | 49.6 | -22.4 | Pass |
| 0.324 | 6.8 | 20.5 | 0.1 | 27.3 | Average | Neutral | 49.6 | -22.3 | Pass |
| 20.668 | 7 | 20.4 | 0.2 | 27.7 | Average | Neutral | 50 | -22.3 | Pass |
| 21.145 | 6.4 | 20.4 | 0.2 | 27 | Average | Neutral | 50 | -23 | Pass |
| 0.169 | 17.3 | 21.2 | 0.1 | 38.6 | Average | Neutral | 55 | -16.5 | Pass |
| 1.027 | 1.6 | 20 | 0 | 21.6 | Average | Neutral | 46 | -24.4 | Pass |
| 24.552 | -0.6 | 20.5 | 0.3 | 20.2 | Average | Neutral | 50 | -29.8 | Pass |
| 20.421 | 9.7 | 20.4 | 0.2 | 30.3 | Average | Neutral | 50 | -19.7 | Pass |
| 3.657 | 2.2 | 20.1 | 0.1 | 22.4 | Average | Neutral | 46 | -23.6 | Pass |







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 | | | |
| CIS049413 | iBTHP-5-DB9 Newport | 5 inch Temp/RH/ Press Sensor | 18-Dec-15 | 18-Dec-16 | B.1, B.2, B.3 | | | |
| CIS040523 | ESCI Rohde & Schwarz | EMI Test Receiver | 30-Dec-15 | 30-Dec-16 | B.3 | | | |
| CIS001937 | NSA 5m Chamber Cisco | NSA 5m Chamber | 12-Feb-16 | 12-Feb-17 | B.3 | | | |
| CIS049535 | Above 1GHz Site Cal Cisco | Above 1GHz CISPR Site Validation | 13-Feb-16 | 13-Feb-17 | B.1, B.2 | | | |
| CIS028072 | 1840 Cisco | 18-40GHz EMI Test Head | 22-Feb-16 | 22-Feb-17 | B.1, B.2 | | | |
| CIS045588 | JB1 Sunol Sciences | Combination Antenna, 30MHz-2GHz | 9-Mar-16 | 9-Mar-17 | B.3 | | | |
| CIS042000 | E4440A Agilent | Spectrum Analyzer | 6-Jul-16 | 6-Jul-17 | B.1, B.2 | | | |
| CIS037581 | 3117 ETS-Lindgren | Horn Antenna | 7-Oct-16 | 7-Oct-17 | B.1, B.2 | | | |
| CIS045098 | TH0118 Cisco | Mast Mount Preamplifier Array, 1-18GHz | 31-Oct-16 | 31-Oct-17 | B.1, B.2 | | | |
| CIS033602 | CSY-NMNM-80-273001 Midwest Microwave | RF Coaxial Cable, to 18GHz | 8-Nov-16 | 8-Nov-17 | B.1, B.2, B.3 | | | |
| CIS030443 | UFB311A-0-1560-520520 Micro-Coax | RF Coaxial Cable, to 18GHz | 8-Nov-16 | 8-Nov-17 | B.1, B.2, B.3 | | | |
| CIS008024 | SF106A Huber + Suhner | 3 meter Sucoflex cable | 8-Nov-16 | 8-Nov-17 | B.1, B.2, B.3 | | | |
| CIS024201 | FSEK30 Rohde & Schwarz | Spectrum Analyzer 20Hz - 40GHz | 8-Nov-16 | 8-Nov-17 | B.1, B.2 | | | |
| CIS037235 | 50CB-015 JFW | GPIB Control Box | Cal not Required | Cal not Required | B.1, B.2 | | | |
| CIS035244 | 926-8ME Klein Tools | 8 Meter Tape Measure | Cal not Required | Cal not Required | B.1, B.2, B.3 | | | |

| | Test Equipment used for AC Mains Conducted Emissions | | | | | | | | | |
|--------|--|---------------------------------|-----------|-----------|-----------|--|--|--|--|--|
| Equip# | Manufacturer/ Model | Description | Last Cal | Next Cal | Test Item | | | | | |
| 8510 | Fischer Custom Communications FCC-450B-2.4-N | Instrumentation Limiter | 16-May-16 | 16-May-17 | B.4 | | | | | |
| 23802 | Fischer Custom Communications FCC-801-M2-50A | CDN, 2-LINE 50A | 12-Jan-16 | 12-Jan-17 | B.4 | | | | | |
| 45995 | Fischer Custom Communications F-090527-1009-2 | Lisn Adapter | 17-Jun-16 | 17-Jun-17 | B.4 | | | | | |
| 49468 | Coleman RG223 | BNC 25 ft Cable | 9-Mar-16 | 9-Mar-17 | B.4 | | | | | |
| 31918 | Midwest Microwave TRM-2048-MC-BNC-10 | 50 Ohm, 5W Terminator, Type BNC | 11-Nov-16 | 11-Nov-17 | B.4 | | | | | |
| 49531 | TTE H785-150K-50-21378 | High Pass Filter | 3-May-16 | 3-May-17 | B.4 | | | | | |

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| 45994 | Fischer Custom Communications F-090527-1009-1 | Line Impedance Stabilization Network | 17-Jun-16 | 17-Jun-17 | B.4 |
|-------|--|---|---------------------|---------------------|-----|
| 18963 | York CNE V | Comparison Noise Emitter, 30 - 1000MHz | Cal Not Required | Cal Not Required | B.4 |
| 45050 | Rohde & Schwarz ESCI | EMI Test Receiver | 11-Sep-16 | 11-Sep-17 | B.4 |
| 51721 | Teseq CDN ST08A | Coupling Decoupling Network | 7-Jun-16 | 7-Jun-17 | B.4 |
| 54231 | Newport iBTHP-5-DB9 | 5 inch Temp/RH/Press Sensor w/20ft cable | 10-Feb-16 | 10-Feb-17 | B.4 |

| | Tes | st Equipment used for RF Conducted | Tests | | |
|-----------|----------------------|------------------------------------|-----------|-----------|------------|
| Equip# | Manufacturer/ Model | Description | Last Cal | Next Cal | Test Item |
| CIS054666 | RA08-S1S1-18 | SMA 18" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054667 | RA08-S1S1-18 | SMA 18" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054668 | RA08-S1S1-18 | SMA 18" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054669 | RA08-S1S1-18 | SMA 18" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054686 | NI PXI-2796 | Plug-in switch module | 6-Oct-15 | 6-Oct-16 | A1 thru A6 |
| | National Instruments | | | | |
| CIS055166 | RFLT4WDC40GK | 4 Way Power Divider 40GHz | 23-Nov-15 | 23-Nov-16 | A1 thru A6 |
| | RF Lambda | | | | |
| CIS054662 | RFLT4WDC40GK | SMA 36" cable | 24-Sep-15 | 24-Sep-16 | A1 thru A6 |
| | RF Lambda | | | | |
| CIS054656 | BRC50705-02 | Band Reject Filter | 24-Sep-15 | 24-Sep-16 | A1 thru A6 |
| | Micro-Tronics | | | | |
| CIS054655 | BRC50704-02 | Notch Filter, | 24-Sep-15 | 24-Sep-16 | A1 thru A6 |
| | Micro-Tronics | SB:5.470-5.725GHz, to 12GHz | | | |
| CIS054654 | BRC50703-02 | Notch Filter, | 24-Sep-15 | 24-Sep-16 | A1 thru A6 |
| | Micro-Tronics | SB:5.150-5.350GHz, to 11GHz | | | |
| CIS054653 | BRM50702-02 | Notch Filter, | 24-Sep-15 | 24-Sep-16 | A1 thru A6 |
| | Micro-Tronics | SB:2.400-2.500GHz, to 18GHz | | | |
| CIS054678 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054677 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054676 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054675 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054674 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054673 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |

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| | MegaPhase | | | | |
|-----------|----------------------|-------------------------------|-------------|-----------|------------|
| CIS054672 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054671 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054670 | RA08-S1S1-12 | SMA 12" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054664 | GC12-8181-16 | SMA 16" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054663 | F120-S1S1-48 | SMA 48" Cable | 25-Sep-15 | 25-Sep-16 | A1 thru A6 |
| | MegaPhase | | | | |
| CIS054686 | NI PXI-2796 | Plug-in switch module | 6-Oct-15 | 6-Oct-16 | A1 thru A6 |
| | National Instruments | | | | |
| CIS042005 | BWS30W2+ | SMA 30dB Attenuator | 16-Oct-15 | 16-Oct-16 | A1 thru A6 |
| | Mini-Circuits | | | | |
| CIS041995 | BW-S6W2 | 6dB Attenuator | 16-Oct-15 | 16-Oct-16 | A1 thru A6 |
| | Mini-Circuits | | | | |
| CIS054695 | D3C2060 | Circulator | 20-Oct-15 | 20-Oct-16 | A1 thru A6 |
| | Ditom | | | | |
| CIS055146 | RA08-S1S1-12 | 12" SMA Cable | 17-Nov-15 | 17-Nov-16 | A1 thru A6 |
| | Megaphase | | | | |
| CIS050721 | N9030A | PXA Signal Analyzer | 30-Mar-16 | 30-Mar-17 | A1 thru A6 |
| | Keysight | | | | |
| CIS054303 | N5182B | MXG X-Series RF Vector Signal | 6-Apr-16 | 6-Apr-17 | A1 thru A6 |
| | Keysight | Generator | | | |
| CIS055099 | SMART2200RM2U | Power Supply | Cal Not Req | uired | A1 thru A6 |
| | Tripp-Lite PXI-1042 | | Cal Not Reg | uirod | A1 thru A6 |
| CIS055094 | National Instruments | Chassis | Car Not Req | uiieu | AT UIIU AO |

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Appendix E: Abbreviation Key and Definitions

The following table defines abbreviations used within this test report.

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

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End

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