

Test Report
AIR-AP1542D-x-K9
AIR-AP1542I-x-K9
(x=A,Z,T)

Cisco Aironet 802.11ac Dual Band Access Points
IC: 2461B-102109P

5470-5580 MHz and 5660-5700 MHz

Against the following Specifications:

RSS-247 Issue 2

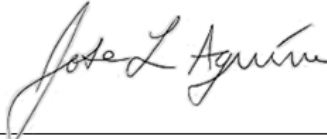
RSS-Gen

AS/NZS 4268

LP0002



Cisco Systems
170 West Tasman Drive
San Jose, CA 95134

	
Author: Jose Aguirre Tested By: TEST ENGINEER	Approved By: Jim Nicholson Title: Technical Leader, Engineering Revision: 3

This report replaces any previously entered test report under EDCS – 11569245. 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:
AS/NZS 4268 CFR47 Part 15.247 RSS247 Issue 2: Feb 2017 RSS-Gen Issue 4: Nov 2014 LP0002: 2016

Measurements were made in accordance with

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

Section 2: Assessment Information

2.1 General

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

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

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

Temperature	15°C to 35°C (54°F to 95°F)
Atmospheric Pressure	860mbar to 1060mbar (25.4" to 31.3")
Humidity	10% to 75*%
- e) All AC testing was performed at one or more of the following supply voltages:
110V 60 Hz (+/-20%)

Units of Measurement

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

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

$$\text{Emission level [dBuV]} = \text{Indicated voltage level [dBuV]} + \text{Cable Loss [dB]} + \text{Other correction factors [dB]}$$

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:-

$$\text{Level in uV/m} = \text{Common Antilogarithm } [(X \text{ dBuV/m})/20] = Y \text{ uV/m}$$

Measurement Uncertainty Values

voltage and power measurements	± 2 dB
conducted EIRP measurements	± 1.4 dB
radiated measurements	± 3.2 dB
frequency measurements	$\pm 2.4 \cdot 10^{-7}$
temperature measurements	$\pm 0.54^\circ$
humidity measurements	$\pm 2.3\%$
DC and low frequency measurements	$\pm 2.5\%$

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

Radiated emissions (expanded uncertainty, confidence interval 95%)

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

Conducted emissions (expanded uncertainty, confidence interval 95%)

30 MHz – 40GHz	+/- 0.38 dB
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A product is considered to comply with a requirement if the nominal measured value is below the limit line.
The product is considered to not be in compliance in case the nominal measured value is above the limit line.

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2.2 Date of testing

21-Jan-2017 - 06-Feb-2017

2.3 Report Issue Date

10-Feb-2017

Cisco uses an electronic system to issue, store and control the revision of test reports. This system is called the Engineering Document Control System (EDCS). The actual report issue date is embedded into the original file on EDCS. Any copies of this report, either electronic or paper, that are not on EDCS must be considered uncontrolled.

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

Test Engineers

Jose Aguirre

2.5 Equipment Assessed (EUT)

AIR-AP1542D-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.

802.11a - Non HT20, One Antenna, 6 to 54 Mbps, 1ss
802.11a - Non HT20, Two Antennas, 6 to 54 Mbps, 1ss

802.11a - Non HT20 Beam Forming, Two Antennas, 6 to 54 Mbps, 1ss

802.11n/ac - HT/VHT20, One Antenna, M0 to M7, 1ss
802.11n/ac - HT/VHT20, Two Antennas, M0 to M7, 1ss
802.11n/ac - HT/VHT20, Two Antennas, M8 to M15, 2ss

802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M0 to M7, 1ss
802.11n/ac - HT/VHT20 Beam Forming, Two Antennas, M8 to M15, 2ss

802.11n/ac - HT/VHT20 STBC, Two Antennas, M0 to M7, 2ss

802.11a - Non HT40, One Antenna, 6 to 54 Mbps, 1ss
802.11a - Non HT40, Two Antennas, 6 to 54 Mbps, 1ss

802.11n/ac - HT/VHT40, One Antenna, M0 to M7, 1ss
802.11n/ac - HT/VHT40, Two Antennas, M0 to M7, 1ss
802.11n/ac - HT/VHT40, Two Antennas, M8 to M15, 2ss

802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M0 to M7, 1ss
802.11n/ac - HT/VHT40 Beam Forming, Two Antennas, M8 to M15, 2ss

802.11n/ac - HT/VHT40 STBC, Two Antennas, M0 to M7, 2ss

802.11a - Non HT80, One Antenna, 6 to 54 Mbps, 1ss
802.11a - Non HT80, Two Antennas, 6 to 54 Mbps, 1ss

802.11ac - VHT80, One Antenna, M0 to M9 1ss
802.11ac - VHT80, Two Antennas, M0 to M9 1ss
802.11ac - VHT80, Two Antennas, M0 to M9 2ss

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

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

The following antennas are supported by this product series.

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

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

Section 3: Result Summary

3.1 Results Summary Table

Conducted emissions

Basic Standard	Technical Requirements / Details	Result
RSS-247 LP0002: 4.7.2 &Annex	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
RSS-247 LP0002: 4.7.2	Output Power: RSS-247 The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band. The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.	Pass
RSS-247 LP0002: 4.7.2	Power Spectral Density: RSS-247 The e.i.r.p. spectral density shall not exceed 11 dBm in any 1.0 MHz band.	Pass
RSS-247 LP0002: 4.7.3 & 2.7 & 2.8	Conducted Spurious Emissions / Band-Edge: RSS-247 Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.	Pass
RSS-Gen	Restricted band: Unwanted emissions falling within the restricted bands, as defined in RSS-Gen 8.10 must also comply with the radiated emission limits specified in RSS-Gen 8.9.	Pass

Radiated Emissions (General requirements)

Basic Standard	Technical Requirements / Details	Result
RSS-Gen	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
RSS-Gen	RX Spurious Emissions: Spurious emissions from the receivers shall not exceed the radiated limits of receiver spurious emissions shown in RSS-Gen section 8.9 & 8.10.	Pass
RSS-Gen LP0002: 2.3	AC conducted Emissions: Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table in these sections. The more stringent limit applies at the frequency range boundaries.	Pass

* MPE calculation is recorded in a separate report

Section 4: Sample Details

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

4.1 Sample Details

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

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

4.2 System Details

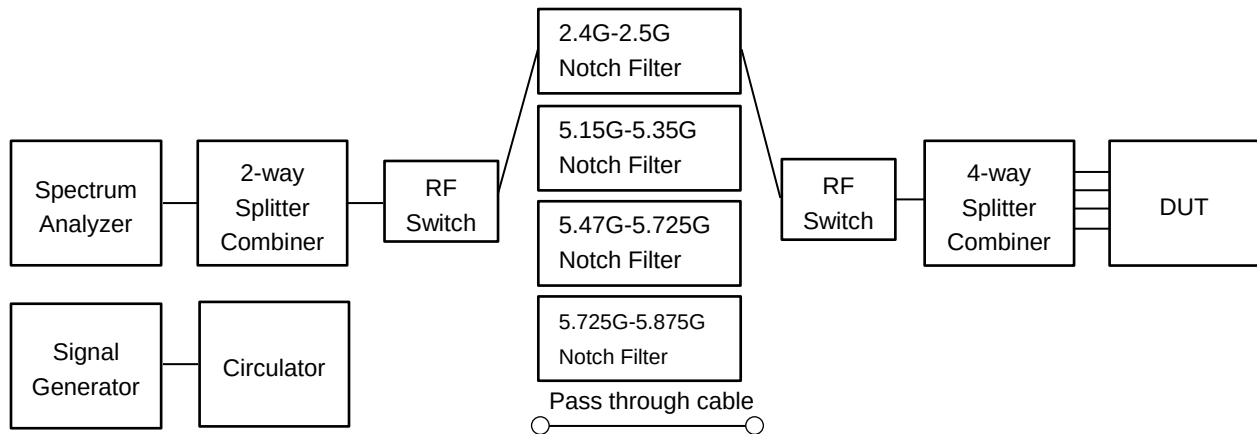
System #	Description	Samples
1	AIR-AP1542D-B-K9	S01
2	AIR-PWRINJ6	S02

4.3 Mode of Operation Details

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

All measurements were made in accordance with

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

Appendix A: Emission Test Results**Conducted Test Setup Diagram****Target Maximum Channel Power**

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

Antenna Gain: 5 dBi

Operating Mode	Maximum Channel Power (dBm EIRP)		
	Frequency (MHz)		
	5500	5560	5700
Non HT20, 6 to 54 Mbps	26	26	24
Non HT20 Beam Forming, 6 to 54 Mbps	28	28	27
HT/VHT20, M0 to M15	27	27	24
HT/VHT20 Beam Forming, M0 to M15	28	28	27
HT/VHT20 STBC, M0 to M7	27	27	24
	5510	5550	5670
Non HT40, 6 to 54 Mbps	23	27	27
HT/VHT40, M0 to M15	24	29	29
HT/VHT40 Beam Forming, M0 to M15	25	30	29
HT/VHT40 STBC, M0 to M7	24	29	29
	5530		
Non HT80, 6 to 54 Mbps	22		
VHT80, M0 to M9, M0 to M9 1-1ss	23		
VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss	23		
VHT80 STBC, M0 to M9 1ss	23		

Antenna Gain: 9 dBi

Operating Mode	Maximum Channel Power (dBm EIRP)		
	Frequency (MHz)		
	5500	5560	5700
Non HT20, 6 to 54 Mbps	26	28	26
Non HT20 Beam Forming, 6 to 54 Mbps	28	28	27
HT/VHT20, M0 to M15	28	28	28
HT/VHT20 Beam Forming, M0 to M15	28	28	28
HT/VHT20 STBC, M0 to M7	28	28	28
	5510	5550	5670
Non HT40, 6 to 54 Mbps	25	30	30
HT/VHT40, M0 to M15	26	30	29
HT/VHT40 Beam Forming, M0 to M15	25	30	29
HT/VHT40 STBC, M0 to M7	25	30	29
	5530		
Non HT80, 6 to 54 Mbps	24		
VHT80, M0 to M9, M0 to M9 1-1ss	23		
VHT80 Beam Forming, M0 to M9, M0 to M9 1-1ss	24		
VHT80 STBC, M0 to M9 1ss	23		

A.1 99% and 26dB Bandwidth

RSS-Gen 6.6/P0002: 4.7.2 & Annex: The 99% occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. There is no limit for 99% OBW.

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

Test Procedure

Ref. ANSI C63.10: 2013 Section 6.9.3
RSS-Gen issue 4 section 6.6

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
RSS-Gen issue 4 section 6.6

99% BW and EBW (-26dB)

Test parameters

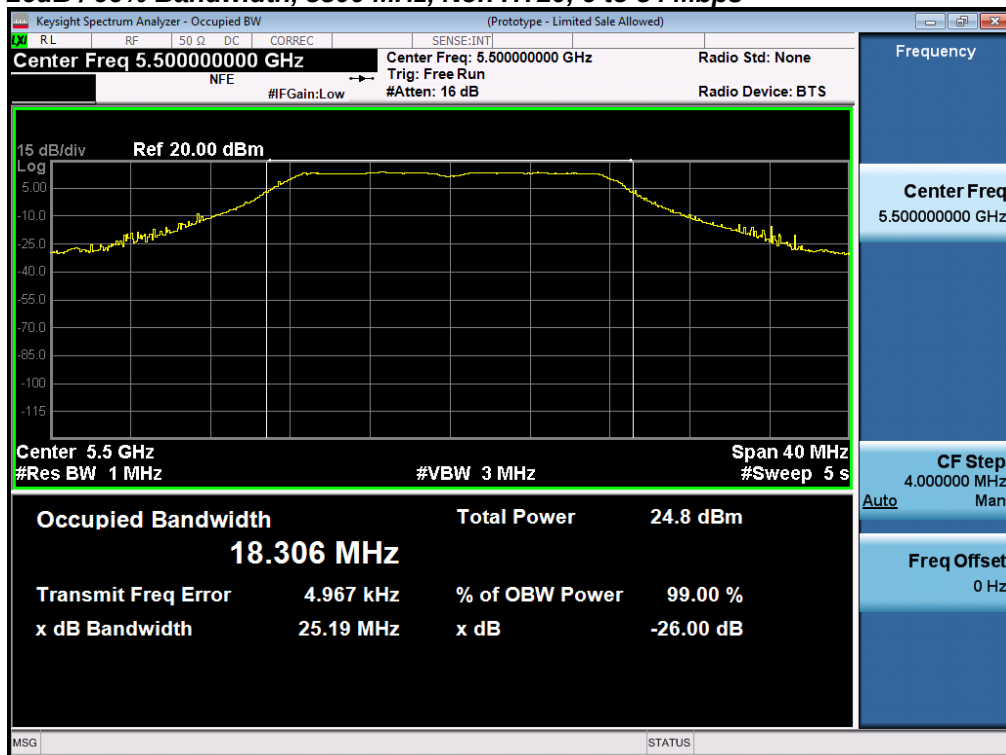
Span = 1.5 x to 5.0 times OBW
RBW = approx. 1% to 5% of the OBW
VBW $\geq 3 \times$ RBW
Detector = Peak or where practical sample shall be used
Trace = Max. Hold

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

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

See Appendix C for list of test equipment

Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5500	Non HT20, 6 to 54 Mbps	6	25.2	18.306
	HT/VHT20, M0 to M15	m0	25.6	19.399
5510	Non HT40, 6 to 54 Mbps	6	45.6	37.242
	HT/VHT40, M0 to M15	m0	45.8	37.146
5530	Non HT80, 6 to 54 Mbps	6	84.6	76.220
	VHT80, M0 to M9, M0 to M9 1-1ss	m0x1	89.0	76.437
5550	Non HT40, 6 to 54 Mbps	6	68.6	37.784
	HT/VHT40, M0 to M15	m0	46.5	37.362
5560	Non HT20, 6 to 54 Mbps	6	25.3	18.333
	HT/VHT20, M0 to M15	m0	25.7	19.448
5670	Non HT40, 6 to 54 Mbps	6	76.3	38.660
	HT/VHT40, M0 to M15	m0	45.9	37.303
5700	Non HT20, 6 to 54 Mbps	6	24.9	18.305
	HT/VHT20, M0 to M15	m0	25.5	19.378

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

A.2 Maximum Conducted Output Power/ Power Spectral Density

RSS-247/ LP0002: 4.7.2: The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Test Procedure

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

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

Ref. 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 $\geq 3 \times$ 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)

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

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

See Appendix C for list of test equipment

Maximum Output Power
Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Total Tx Channel Power (dBm) EIRP	Limit (dBm) EIRP	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	20.5		25.5	30.0	4.5
	Non HT20, 6 to 54 Mbps	2	5	16.5	16.6	24.6	30.0	5.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	16.5	16.6	27.6	30.0	2.4
	HT/VHT20, M0 to M7	1	5	19.5		24.5	30.0	5.5
	HT/VHT20, M0 to M7	2	5	16.4	16.6	24.5	30.0	5.5
	HT/VHT20, M8 to M15	2	5	17.4	17.4	25.4	30.0	4.6
	HT/VHT20 Beam Forming, M0 to M7	2	8	16.4	16.6	27.5	30.0	2.5
	HT/VHT20 Beam Forming, M8 to M15	2	5	17.4	17.4	25.4	30.0	4.6
	HT/VHT20 STBC, M0 to M7	2	5	17.4	17.4	25.4	30.0	4.6
5510	Non HT40, 6 to 54 Mbps	1	5	15.9		20.9	30.0	9.1
	Non HT40, 6 to 54 Mbps	2	5	14.8	14.6	22.7	30.0	7.3
	HT/VHT40, M0 to M7	1	5	17.5		22.5	30.0	7.5
	HT/VHT40, M0 to M7	2	5	15.7	15.4	23.6	30.0	6.4
	HT/VHT40, M8 to M15	2	5	15.7	15.4	23.6	30.0	6.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	11.6	11.4	22.5	30.0	7.5
	HT/VHT40 Beam Forming, M8 to M15	2	5	15.7	15.4	23.6	30.0	6.4
	HT/VHT40 STBC, M0 to M7	2	5	15.7	15.4	23.6	30.0	6.4
5530	Non HT80, 6 to 54 Mbps	1	5	16.4		21.4	30.0	8.6
	Non HT80, 6 to 54 Mbps	2	5	14.5	14.1	22.3	30.0	7.7
	VHT80, M0 to M9 1ss	1	5	15.8		20.8	30.0	9.2
	VHT80, M0 to M9 1ss	2	5	13.8	13.5	21.7	30.0	8.3
	VHT80, M0 to M9 2ss	2	5	13.8	13.5	21.7	30.0	8.3
	VHT80 Beam Forming, M0 to M9 1ss	2	8	10.8	10.5	21.7	30.0	8.3
	VHT80 Beam Forming, M0 to M9 2ss	2	5	13.8	13.5	21.7	30.0	8.3
	VHT80 STBC, M0 to M9 1ss	2	5	13.8	13.5	21.7	30.0	8.3
5550	Non HT40, 6 to 54 Mbps	1	5	21.8		26.8	30.0	3.2
	Non HT40, 6 to 54 Mbps	2	5	19.2	18.7	27.0	30.0	3.0
	HT/VHT40, M0 to M7	1	5	22.1		27.1	30.0	2.9
	HT/VHT40, M0 to M7	2	5	20.1	19.7	27.9	30.0	2.1
	HT/VHT40, M8 to M15	2	5	21.2	20.6	28.9	30.0	1.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	19.1	18.7	29.9	30.0	0.1

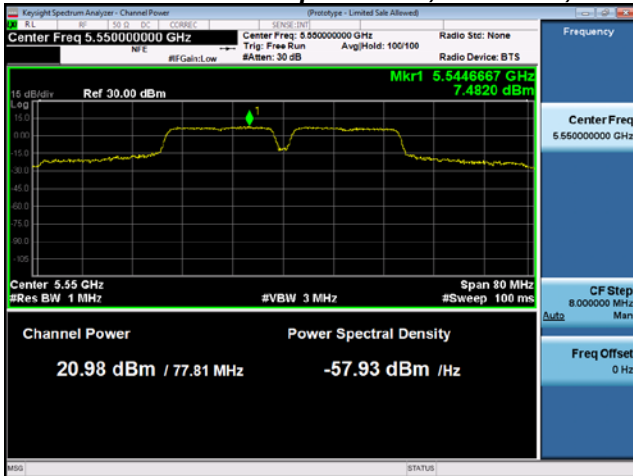
	HT/VHT40 Beam Forming, M8 to M15	2	5	21.2	20.6	28.9	30.0	1.1
	HT/VHT40 STBC, M0 to M7	2	5	21.2	20.6	28.9	30.0	1.1
5560	Non HT20, 6 to 54 Mbps	1	5	21.5		26.5	30.0	3.5
	Non HT20, 6 to 54 Mbps	2	5	16.7	16.4	24.6	30.0	5.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	16.7	16.4	27.6	30.0	2.4
	HT/VHT20, M0 to M7	1	5	21.6		26.6	30.0	3.4
	HT/VHT20, M0 to M7	2	5	16.7	16.4	24.6	30.0	5.4
	HT/VHT20, M8 to M15	2	5	18.8	18.4	26.6	30.0	3.4
	HT/VHT20 Beam Forming, M0 to M7	2	8	16.7	16.4	27.6	30.0	2.4
	HT/VHT20 Beam Forming, M8 to M15	2	5	18.8	18.4	26.6	30.0	3.4
	HT/VHT20 STBC, M0 to M7	2	5	18.8	18.4	26.6	30.0	3.4
5670	Non HT40, 6 to 54 Mbps	1	5	21.6		26.6	30.0	3.4
	Non HT40, 6 to 54 Mbps	2	5	19.2	19.2	27.2	30.0	2.8
	HT/VHT40, M0 to M7	1	5	22.2		27.2	30.0	2.8
	HT/VHT40, M0 to M7	2	5	19.2	19.3	27.3	30.0	2.7
	HT/VHT40, M8 to M15	2	5	20.2	20.2	28.2	30.0	1.8
	HT/VHT40 Beam Forming, M0 to M7	2	8	18.2	18.2	29.2	30.0	0.8
	HT/VHT40 Beam Forming, M8 to M15	2	5	20.2	20.2	28.2	30.0	1.8
	HT/VHT40 STBC, M0 to M7	2	5	20.2	20.2	28.2	30.0	1.8
5700	Non HT20, 6 to 54 Mbps	1	5	17.9		22.9	30.0	7.1
	Non HT20, 6 to 54 Mbps	2	5	16.7	16.0	24.4	30.0	5.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	15.8	15.2	26.5	30.0	3.5
	HT/VHT20, M0 to M7	1	5	16.8		21.8	30.0	8.2
	HT/VHT20, M0 to M7	2	5	16.8	16.0	24.4	30.0	5.6
	HT/VHT20, M8 to M15	2	5	16.8	16.0	24.4	30.0	5.6
	HT/VHT20 Beam Forming, M0 to M7	2	8	14.9	14.1	25.5	30.0	4.5
	HT/VHT20 Beam Forming, M8 to M15	2	5	16.8	16.0	24.4	30.0	5.6
	HT/VHT20 STBC, M0 to M7	2	5	16.8	16.0	24.4	30.0	5.6

Maximum Transmit Output Power, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7**Antenna A****Antenna B**

Antenna Gain: 9 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Total Tx Channel Power (dBm) EIRP	Limit (dBm) EIRP	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	16.5		25.5	30.0	4.5
	Non HT20, 6 to 54 Mbps	2	9	12.6	12.6	24.6	30.0	5.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	11.5	11.6	26.6	30.0	3.4
	HT/VHT20, M0 to M7	1	9	16.4		25.4	30.0	4.6
	HT/VHT20, M0 to M7	2	9	12.5	12.5	24.5	30.0	5.5
	HT/VHT20, M8 to M15	2	9	14.5	14.5	26.5	30.0	3.5
	HT/VHT20 Beam Forming, M0 to M7	2	12	11.4	11.5	26.5	30.0	3.5
	HT/VHT20 Beam Forming, M8 to M15	2	9	14.5	14.5	26.5	30.0	3.5
	HT/VHT20 STBC, M0 to M7	2	9	14.5	14.5	26.5	30.0	3.5
5510	Non HT40, 6 to 54 Mbps	1	9	14.8		23.8	30.0	6.2
	Non HT40, 6 to 54 Mbps	2	9	11.8	11.5	23.7	30.0	6.3
	HT/VHT40, M0 to M7	1	9	14.7		23.7	30.0	6.3
	HT/VHT40, M0 to M7	2	9	11.6	11.4	23.5	30.0	6.5
	HT/VHT40, M8 to M15	2	9	11.6	11.4	23.5	30.0	6.5
	HT/VHT40 Beam Forming, M0 to M7	2	12	9.5	9.4	24.5	30.0	5.5
	HT/VHT40 Beam Forming, M8 to M15	2	9	11.6	11.4	23.5	30.0	6.5
	HT/VHT40 STBC, M0 to M7	2	9	11.6	11.4	23.5	30.0	6.5
5530	Non HT80, 6 to 54 Mbps	1	9	13.4		22.4	30.0	7.6
	Non HT80, 6 to 54 Mbps	2	9	11.3	11.1	23.2	30.0	6.8
	VHT80, M0 to M9 1ss	1	9	11.8		20.8	30.0	9.2
	VHT80, M0 to M9 1ss	2	9	9.8	9.5	21.7	30.0	8.3
	VHT80, M0 to M9 2ss	2	9	9.8	9.5	21.7	30.0	8.3
	VHT80 Beam Forming, M0 to M9 1ss	2	12	7.8	7.5	22.7	30.0	7.3
	VHT80 Beam Forming, M0 to M9 2ss	2	9	9.8	9.5	21.7	30.0	8.3
	VHT80 STBC, M0 to M9 1ss	2	9	9.8	9.5	21.7	30.0	8.3
5550	Non HT40, 6 to 54 Mbps	1	9	21.0		30.0	30.0	0.0
	Non HT40, 6 to 54 Mbps	2	9	15.3	14.7	27.0	30.0	3.0
	HT/VHT40, M0 to M7	1	9	20.1		29.1	30.0	0.9
	HT/VHT40, M0 to M7	2	9	16.1	15.7	27.9	30.0	2.1
	HT/VHT40, M8 to M15	2	9	18.2	17.6	29.9	30.0	0.1
	HT/VHT40 Beam Forming, M0 to M7	2	12	15.2	14.6	29.9	30.0	0.1
	HT/VHT40 Beam Forming, M8 to M15	2	9	18.2	17.6	29.9	30.0	0.1

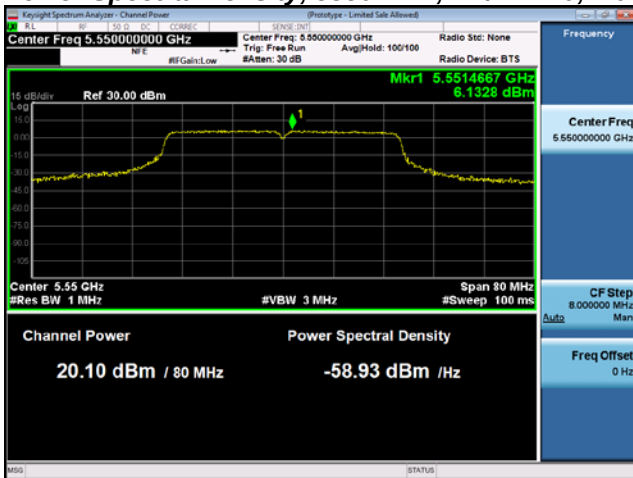
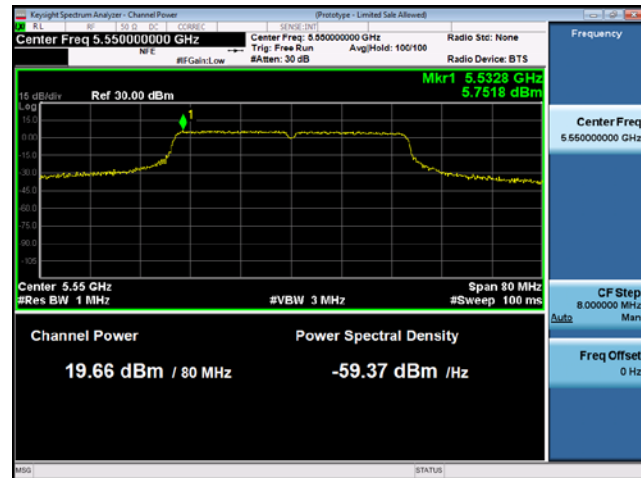
	HT/VHT40 STBC, M0 to M7	2	9	18.2	17.6	29.9	30.0	0.1
5560	Non HT20, 6 to 54 Mbps	1	9	18.8		27.8	30.0	2.2
	Non HT20, 6 to 54 Mbps	2	9	12.7	12.4	24.6	30.0	5.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	12.7	12.4	27.6	30.0	2.4
	HT/VHT20, M0 to M7	1	9	18.8		27.8	30.0	2.2
	HT/VHT20, M0 to M7	2	9	11.7	11.4	23.6	30.0	6.4
	HT/VHT20, M8 to M15	2	9	15.8	15.5	27.7	30.0	2.3
	HT/VHT20 Beam Forming, M0 to M7	2	12	11.7	11.4	26.6	30.0	3.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	15.8	15.5	27.7	30.0	2.3
	HT/VHT20 STBC, M0 to M7	2	9	15.8	15.5	27.7	30.0	2.3
5670	Non HT40, 6 to 54 Mbps	1	9	20.8		29.8	30.0	0.2
	Non HT40, 6 to 54 Mbps	2	9	15.5	15.4	27.5	30.0	2.5
	HT/VHT40, M0 to M7	1	9	20.2		29.2	30.0	0.8
	HT/VHT40, M0 to M7	2	9	15.3	15.2	27.3	30.0	2.7
	HT/VHT40, M8 to M15	2	9	17.2	17.2	29.2	30.0	0.8
	HT/VHT40 Beam Forming, M0 to M7	2	12	14.1	14.3	29.2	30.0	0.8
	HT/VHT40 Beam Forming, M8 to M15	2	9	17.2	17.2	29.2	30.0	0.8
	HT/VHT40 STBC, M0 to M7	2	9	17.2	17.2	29.2	30.0	0.8
5700	Non HT20, 6 to 54 Mbps	1	9	16.7		25.7	30.0	4.3
	Non HT20, 6 to 54 Mbps	2	9	12.6	11.9	24.3	30.0	5.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	11.6	10.8	26.2	30.0	3.8
	HT/VHT20, M0 to M7	1	9	16.8		25.8	30.0	4.2
	HT/VHT20, M0 to M7	2	9	12.8	12.1	24.5	30.0	5.5
	HT/VHT20, M8 to M15	2	9	13.8	13.1	25.5	30.0	4.5
	HT/VHT20 Beam Forming, M0 to M7	2	12	11.7	11.0	26.4	30.0	3.6
	HT/VHT20 Beam Forming, M8 to M15	2	9	13.8	13.1	25.5	30.0	4.5
	HT/VHT20 STBC, M0 to M7	2	9	13.8	13.1	25.5	30.0	4.5

Maximum Transmit Output Power, 5550 MHz, Non HT40, 6 to 54 Mbps**Antenna A**

Power Spectral Density
Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	9.7		9.7	11.0	1.3
	Non HT20, 6 to 54 Mbps	2	8	5.8	5.8	8.8	9.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	5.8	5.8	8.8	9.0	0.2
	HT/VHT20, M0 to M7	1	5	9.4		9.4	11.0	1.6
	HT/VHT20, M0 to M7	2	8	5.4	5.6	8.5	9.0	0.5
	HT/VHT20, M8 to M15	2	5	7.5	7.5	10.5	11.0	0.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	5.4	5.6	8.5	9.0	0.5
	HT/VHT20 Beam Forming, M8 to M15	2	5	7.5	7.5	10.5	11.0	0.5
	HT/VHT20 STBC, M0 to M7	2	5	7.5	7.5	10.5	11.0	0.5
5510	Non HT40, 6 to 54 Mbps	1	5	2.9		2.9	11.0	8.1
	Non HT40, 6 to 54 Mbps	2	8	1.3	0.9	4.1	9.0	4.9
	HT/VHT40, M0 to M7	1	5	4.6		4.6	11.0	6.4
	HT/VHT40, M0 to M7	2	8	2.3	2.5	5.4	9.0	3.6
	HT/VHT40, M8 to M15	2	5	2.3	2.5	5.4	11.0	5.6
	HT/VHT40 Beam Forming, M0 to M7	2	8	-0.3	-0.4	2.7	9.0	6.3
	HT/VHT40 Beam Forming, M8 to M15	2	5	2.3	2.5	5.4	11.0	5.6
	HT/VHT40 STBC, M0 to M7	2	5	2.3	2.5	5.4	11.0	5.6
5530	Non HT80, 6 to 54 Mbps	1	5	0.1		0.1	11.0	10.9
	Non HT80, 6 to 54 Mbps	2	8	-2.0	-2.0	1.0	9.0	8.0
	VHT80, M0 to M9 1ss	1	5	-0.8		-0.8	11.0	11.8
	VHT80, M0 to M9 1ss	2	8	-2.3	-1.8	1.0	9.0	8.0
	VHT80, M0 to M9 2ss	2	5	-2.3	-1.8	1.0	11.0	10.0
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-5.4	-5.2	-2.3	9.0	11.3
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-2.3	-1.8	1.0	11.0	10.0
	VHT80 STBC, M0 to M9 1ss	2	5	-2.3	-1.8	1.0	11.0	10.0
5550	Non HT40, 6 to 54 Mbps	1	5	8.6		8.6	11.0	2.4
	Non HT40, 6 to 54 Mbps	2	8	5.6	5.1	8.4	9.0	0.6
	HT/VHT40, M0 to M7	1	5	8.0		8.0	11.0	3.0
	HT/VHT40, M0 to M7	2	8	6.1	5.8	9.0	9.0	0.0
	HT/VHT40, M8 to M15	2	5	7.0	6.6	9.8	11.0	1.2
	HT/VHT40 Beam Forming, M0 to M7	2	8	5.1	4.6	7.9	9.0	1.1

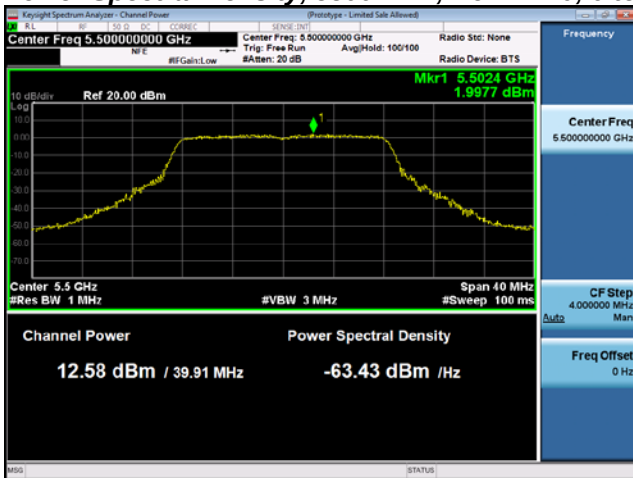
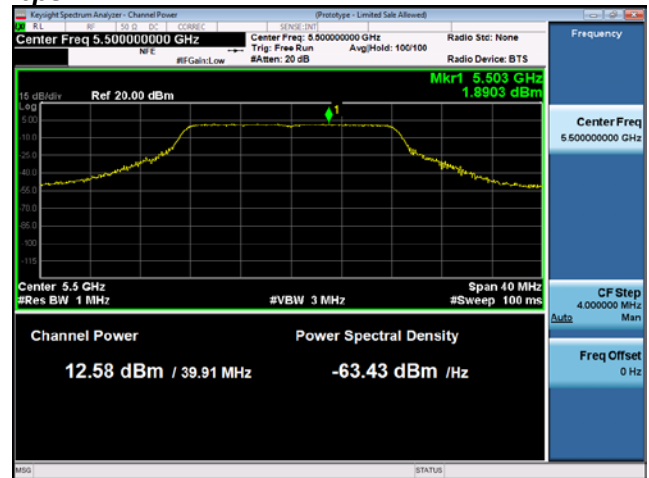
	HT/VHT40 Beam Forming, M8 to M15	2	5	7.0	6.6	9.8	11.0	1.2
	HT/VHT40 STBC, M0 to M7	2	5	7.0	6.6	9.8	11.0	1.2
5560	Non HT20, 6 to 54 Mbps	1	5	10.8		10.8	11.0	0.2
	Non HT20, 6 to 54 Mbps	2	8	6.0	5.6	8.8	9.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	6.0	5.6	8.8	9.0	0.2
	HT/VHT20, M0 to M7	1	5	10.5		10.5	11.0	0.5
	HT/VHT20, M0 to M7	2	8	5.5	6.1	8.8	9.0	0.2
	HT/VHT20, M8 to M15	2	5	7.7	7.3	10.5	11.0	0.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	5.5	6.1	8.8	9.0	0.2
	HT/VHT20 Beam Forming, M8 to M15	2	5	7.7	7.3	10.5	11.0	0.5
	HT/VHT20 STBC, M0 to M7	2	5	7.7	7.3	10.5	11.0	0.5
5670	Non HT40, 6 to 54 Mbps	1	5	7.9		7.9	11.0	3.1
	Non HT40, 6 to 54 Mbps	2	8	5.3	5.5	8.4	9.0	0.6
	HT/VHT40, M0 to M7	1	5	8.1		8.1	11.0	2.9
	HT/VHT40, M0 to M7	2	8	5.0	5.4	8.2	9.0	0.8
	HT/VHT40, M8 to M15	2	5	7.3	7.0	10.2	11.0	0.8
	HT/VHT40 Beam Forming, M0 to M7	2	8	4.0	4.1	7.1	9.0	1.9
	HT/VHT40 Beam Forming, M8 to M15	2	5	7.3	7.0	10.2	11.0	0.8
	HT/VHT40 STBC, M0 to M7	2	5	7.3	7.0	10.2	11.0	0.8
5700	Non HT20, 6 to 54 Mbps	1	5	6.9		6.9	11.0	4.1
	Non HT20, 6 to 54 Mbps	2	8	6.3	5.2	8.8	9.0	0.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	6.3	5.2	8.8	9.0	0.2
	HT/VHT20, M0 to M7	1	5	5.8		5.8	11.0	5.2
	HT/VHT20, M0 to M7	2	8	5.8	5.1	8.5	9.0	0.5
	HT/VHT20, M8 to M15	2	5	5.8	5.1	8.5	11.0	2.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	5.8	5.1	8.5	9.0	0.5
	HT/VHT20 Beam Forming, M8 to M15	2	5	5.8	5.1	8.5	11.0	2.5
	HT/VHT20 STBC, M0 to M7	2	5	5.8	5.1	8.5	11.0	2.5

Power Spectral Density, 5550 MHz, HT/VHT40, M0 to M7**Antenna A****Antenna B**

Antenna Gain: 9 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	6.6		6.6	8.0	1.4
	Non HT20, 6 to 54 Mbps	2	12	2.0	1.9	5.0	5.0	0.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	2.0	1.9	5.0	5.0	0.0
	HT/VHT20, M0 to M7	1	9	6.4		6.4	8.0	1.6
	HT/VHT20, M0 to M7	2	12	1.8	1.5	4.7	5.0	0.3
	HT/VHT20, M8 to M15	2	9	4.5	4.6	7.6	8.0	0.4
	HT/VHT20 Beam Forming, M0 to M7	2	12	1.8	1.5	4.7	5.0	0.3
	HT/VHT20 Beam Forming, M8 to M15	2	9	4.5	4.6	7.6	8.0	0.4
	HT/VHT20 STBC, M0 to M7	2	9	4.5	4.6	7.6	8.0	0.4
5510	Non HT40, 6 to 54 Mbps	1	9	1.3		1.3	8.0	6.7
	Non HT40, 6 to 54 Mbps	2	12	-0.8	-0.9	2.2	5.0	2.8
	HT/VHT40, M0 to M7	1	9	2.3		2.3	8.0	5.7
	HT/VHT40, M0 to M7	2	12	-1.3	-1.4	1.7	5.0	3.3
	HT/VHT40, M8 to M15	2	9	-1.3	-1.4	1.7	8.0	6.3
	HT/VHT40 Beam Forming, M0 to M7	2	12	-3.4	-3.5	-0.4	5.0	5.4
	HT/VHT40 Beam Forming, M8 to M15	2	9	-1.3	-1.4	1.7	8.0	6.3
	HT/VHT40 STBC, M0 to M7	2	9	-1.3	-1.4	1.7	8.0	6.3
5530	Non HT80, 6 to 54 Mbps	1	9	-2.0		-2.0	8.0	10.0
	Non HT80, 6 to 54 Mbps	2	12	-4.4	-4.0	-1.2	5.0	6.2
	VHT80, M0 to M9 1ss	1	9	-3.4		-3.4	8.0	11.4
	VHT80, M0 to M9 1ss	2	12	-6.3	-6.2	-3.2	5.0	8.2
	VHT80, M0 to M9 2ss	2	9	-6.3	-6.2	-3.2	8.0	11.2
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-8.2	-8.4	-5.3	5.0	10.3
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-6.3	-6.2	-3.2	8.0	11.2
	VHT80 STBC, M0 to M9 1ss	2	9	-6.3	-6.2	-3.2	8.0	11.2
5550	Non HT40, 6 to 54 Mbps	1	9	7.5		7.5	8.0	0.5
	Non HT40, 6 to 54 Mbps	2	12	1.5	1.0	4.3	5.0	0.7
	HT/VHT40, M0 to M7	1	9	6.1		6.1	8.0	1.9
	HT/VHT40, M0 to M7	2	12	2.1	1.7	4.9	5.0	0.1
	HT/VHT40, M8 to M15	2	9	4.3	3.8	7.1	8.0	0.9
	HT/VHT40 Beam Forming, M0 to M7	2	12	1.3	0.7	4.0	5.0	1.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	4.3	3.8	7.1	8.0	0.9

	HT/VHT40 STBC, M0 to M7	2	9	4.3	3.8	7.1	8.0	0.9
5560	Non HT20, 6 to 54 Mbps	1	9	8.0		8.0	8.0	0.0
	Non HT20, 6 to 54 Mbps	2	12	2.1	1.8	5.0	5.0	0.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	2.1	1.8	5.0	5.0	0.0
	HT/VHT20, M0 to M7	1	9	7.7		7.7	8.0	0.3
	HT/VHT20, M0 to M7	2	12	0.6	0.5	3.6	5.0	1.4
	HT/VHT20, M8 to M15	2	9	4.8	4.6	7.7	8.0	0.3
	HT/VHT20 Beam Forming, M0 to M7	2	12	0.6	0.5	3.6	5.0	1.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	4.8	4.6	7.7	8.0	0.3
	HT/VHT20 STBC, M0 to M7	2	9	4.8	4.6	7.7	8.0	0.3
5670	Non HT40, 6 to 54 Mbps	1	9	7.2		7.2	8.0	0.8
	Non HT40, 6 to 54 Mbps	2	12	1.7	2.1	4.9	5.0	0.1
	HT/VHT40, M0 to M7	1	9	6.1		6.1	8.0	1.9
	HT/VHT40, M0 to M7	2	12	1.2	1.5	4.4	5.0	0.6
	HT/VHT40, M8 to M15	2	9	3.1	3.1	6.1	8.0	1.9
	HT/VHT40 Beam Forming, M0 to M7	2	12	-0.1	0.3	3.1	5.0	1.9
	HT/VHT40 Beam Forming, M8 to M15	2	9	3.1	3.1	6.1	8.0	1.9
	HT/VHT40 STBC, M0 to M7	2	9	3.1	3.1	6.1	8.0	1.9
5700	Non HT20, 6 to 54 Mbps	1	9	6.3		6.3	8.0	1.7
	Non HT20, 6 to 54 Mbps	2	12	2.0	1.2	4.6	5.0	0.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	2.0	1.2	4.6	5.0	0.4
	HT/VHT20, M0 to M7	1	9	5.8		5.8	8.0	2.2
	HT/VHT20, M0 to M7	2	12	1.7	1.1	4.4	5.0	0.6
	HT/VHT20, M8 to M15	2	9	5.1	4.2	7.7	8.0	0.3
	HT/VHT20 Beam Forming, M0 to M7	2	12	0.7	0.1	3.4	5.0	1.6
	HT/VHT20 Beam Forming, M8 to M15	2	9	5.1	4.2	7.7	8.0	0.3
	HT/VHT20 STBC, M0 to M7	2	9	5.1	4.2	7.7	8.0	0.3

Power Spectral Density, 5500 MHz, Non HT20, 6 to 54 Mbps**Antenna A****Antenna B**

A.3 Conducted Spurious Emissions

RSS-247/ LP0002: 4.7.3 & 2.7 & 2.8 Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

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

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

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

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

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

Test Procedure

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

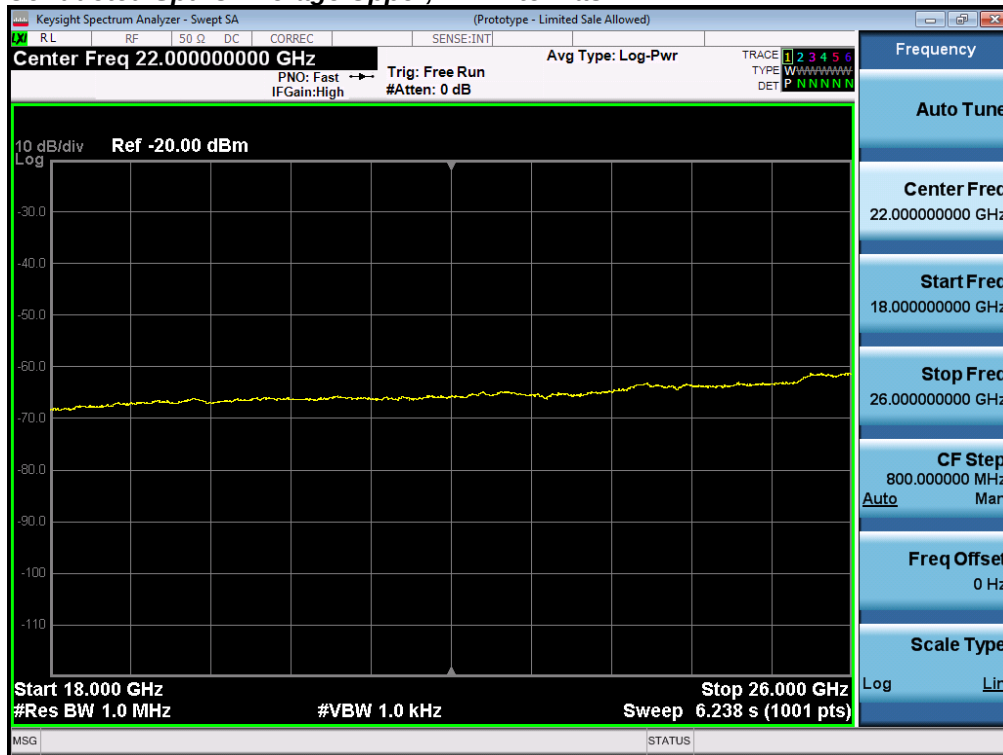
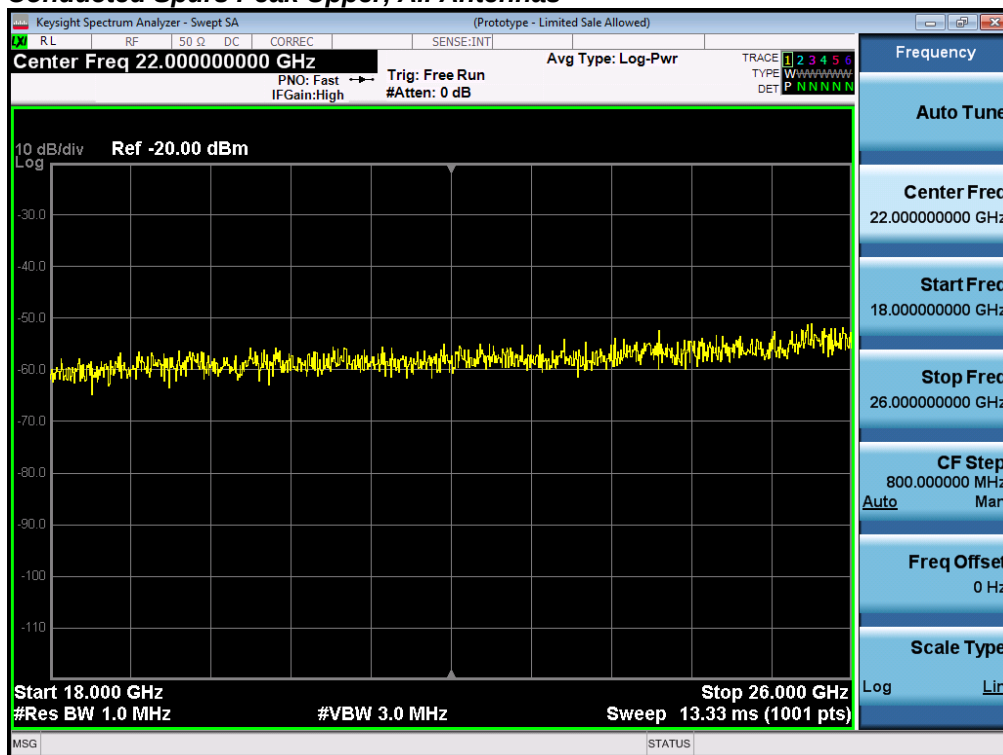
Conducted Spurious Emissions
Test parameters
Span = 30MHz to 18GHz / 18GHz to 40GHz RBW = 1 MHz VBW ≥ 3 x RBW for Peak, 1kHz for Average Sweep = Auto couple Detector = Peak Trace = Max Hold.

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



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

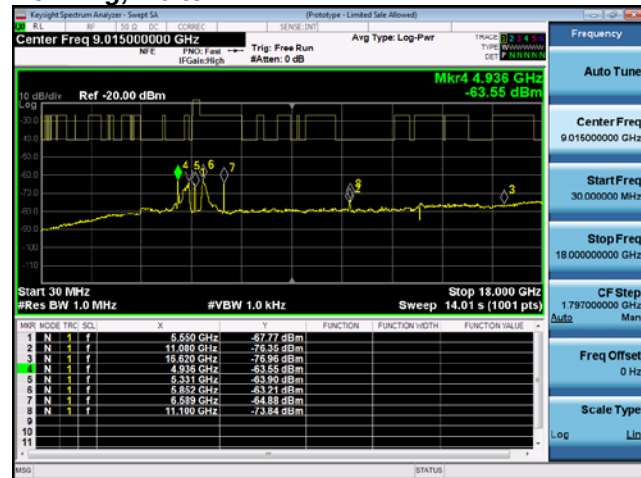
See Appendix C for list of test equipment

Conducted Spurs Average Upper, All Antennas**Conducted Spurs Peak Upper, All Antennas**

Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	-68.7		-63.7	-41.25	22.5
	Non HT20, 6 to 54 Mbps	2	5	-68.2	-65.1	-58.4	-41.25	17.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-68.2	-65.1	-55.4	-41.25	14.1
	HT/VHT20, M0 to M7	1	5	-66.4		-61.4	-41.25	20.2
	HT/VHT20, M0 to M7	2	5	-66.8	-64.3	-57.4	-41.25	16.1
	HT/VHT20, M8 to M15	2	5	-66.5	-64.1	-57.1	-41.25	15.9
	HT/VHT20 Beam Forming, M0 to M7	2	8	-66.8	-64.3	-54.4	-41.25	13.1
	HT/VHT20 Beam Forming, M8 to M15	2	5	-66.5	-64.1	-57.1	-41.25	15.9
	HT/VHT20 STBC, M0 to M7	2	5	-66.5	-64.1	-57.1	-41.25	15.9
5510	Non HT40, 6 to 54 Mbps	1	5	-68.0		-63.0	-41.25	21.8
	Non HT40, 6 to 54 Mbps	2	5	-68.6	-64.0	-57.7	-41.25	16.5
	HT/VHT40, M0 to M7	1	5	-66.1		-61.1	-41.25	19.9
	HT/VHT40, M0 to M7	2	5	-68.3	-64.2	-57.8	-41.25	16.5
	HT/VHT40, M8 to M15	2	5	-68.3	-64.2	-57.8	-41.25	16.5
	HT/VHT40 Beam Forming, M0 to M7	2	8	-67.6	-63.6	-54.1	-41.25	12.9
	HT/VHT40 Beam Forming, M8 to M15	2	5	-68.3	-64.2	-57.8	-41.25	16.5
	HT/VHT40 STBC, M0 to M7	2	5	-68.3	-64.2	-57.8	-41.25	16.5
5530	Non HT80, 6 to 54 Mbps	1	5	-67.7		-62.7	-41.25	21.5
	Non HT80, 6 to 54 Mbps	2	5	-67.8	-64.6	-57.9	-41.25	16.7
	VHT80, M0 to M9 1ss	1	5	-65.7		-60.7	-41.25	19.5
	VHT80, M0 to M9 1ss	2	5	-66.7	-63.4	-56.7	-41.25	15.5
	VHT80, M0 to M9 2ss	2	5	-66.7	-63.4	-56.7	-41.25	15.5
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-67.4	-63.9	-54.3	-41.25	13.0
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-66.7	-63.4	-56.7	-41.25	15.5
	VHT80 STBC, M0 to M9 1ss	2	5	-66.7	-63.4	-56.7	-41.25	15.5
5550	Non HT40, 6 to 54 Mbps	1	5	-65.1		-60.1	-41.25	18.9
	Non HT40, 6 to 54 Mbps	2	5	-67.0	-64.3	-57.4	-41.25	16.2
	HT/VHT40, M0 to M7	1	5	-66.3		-61.3	-41.25	20.1
	HT/VHT40, M0 to M7	2	5	-66.2	-63.4	-56.6	-41.25	15.3
	HT/VHT40, M8 to M15	2	5	-66.0	-67.4	-58.6	-41.25	17.4
	HT/VHT40 Beam Forming, M0 to M7	2	8	-65.7	-63.5	-53.5	-41.25	12.2
	HT/VHT40 Beam Forming, M8 to M15	2	5	-66.0	-67.4	-58.6	-41.25	17.4

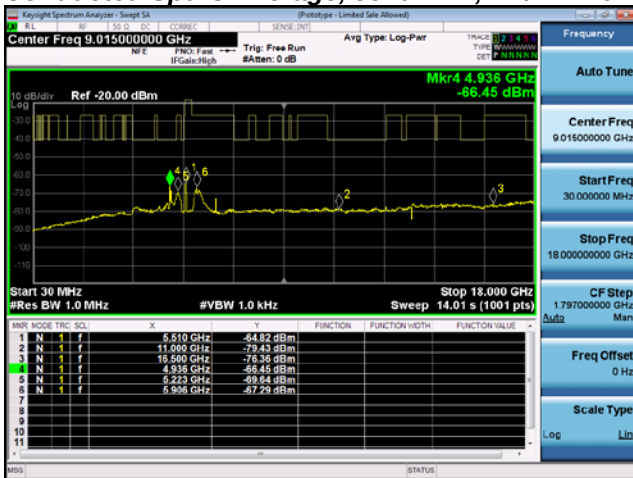
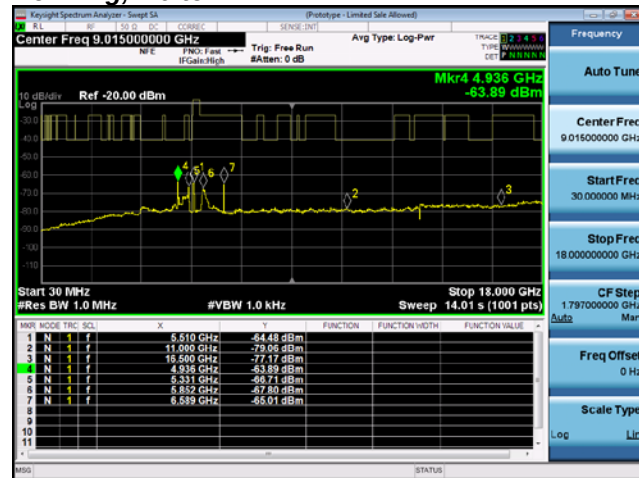
	HT/VHT40 STBC, M0 to M7	2	5	-66.0	-67.4	-58.6	-41.25	17.4
5560	Non HT20, 6 to 54 Mbps	1	5	-62.9		-57.9	-41.25	16.7
	Non HT20, 6 to 54 Mbps	2	5	-68.2	-63.9	-57.5	-41.25	16.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-68.2	-63.9	-54.5	-41.25	13.3
	HT/VHT20, M0 to M7	1	5	-64.0		-59.0	-41.25	17.8
	HT/VHT20, M0 to M7	2	5	-67.4	-68.6	-59.9	-41.25	18.7
	HT/VHT20, M8 to M15	2	5	-67.2	-64.2	-57.4	-41.25	16.2
	HT/VHT20 Beam Forming, M0 to M7	2	8	-67.4	-68.6	-56.9	-41.25	15.7
	HT/VHT20 Beam Forming, M8 to M15	2	5	-67.2	-64.2	-57.4	-41.25	16.2
	HT/VHT20 STBC, M0 to M7	2	5	-67.2	-64.2	-57.4	-41.25	16.2
5670	Non HT40, 6 to 54 Mbps	1	5	-66.7		-61.7	-41.25	20.5
	Non HT40, 6 to 54 Mbps	2	5	-67.2	-66.4	-58.8	-41.25	17.5
	HT/VHT40, M0 to M7	1	5	-66.3		-61.3	-41.25	20.1
	HT/VHT40, M0 to M7	2	5	-67.3	-64.6	-57.7	-41.25	16.5
	HT/VHT40, M8 to M15	2	5	-67.3	-64.7	-57.8	-41.25	16.5
	HT/VHT40 Beam Forming, M0 to M7	2	8	-68.1	-64.2	-54.7	-41.25	13.5
	HT/VHT40 Beam Forming, M8 to M15	2	5	-67.3	-64.7	-57.8	-41.25	16.5
	HT/VHT40 STBC, M0 to M7	2	5	-67.3	-64.7	-57.8	-41.25	16.5
5700	Non HT20, 6 to 54 Mbps	1	5	-67.5		-62.5	-41.25	21.3
	Non HT20, 6 to 54 Mbps	2	5	-67.8	-65.5	-58.5	-41.25	17.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-67.8	-65.5	-55.5	-41.25	14.2
	HT/VHT20, M0 to M7	1	5	-68.6		-63.6	-41.25	22.4
	HT/VHT20, M0 to M7	2	5	-68.6	-65.1	-58.5	-41.25	17.2
	HT/VHT20, M8 to M15	2	5	-68.6	-65.1	-58.5	-41.25	17.2
	HT/VHT20 Beam Forming, M0 to M7	2	8	-68.6	-65.1	-55.5	-41.25	14.2
	HT/VHT20 Beam Forming, M8 to M15	2	5	-68.6	-65.1	-58.5	-41.25	17.2
	HT/VHT20 STBC, M0 to M7	2	5	-68.6	-65.1	-58.5	-41.25	17.2

Conducted Spurs Average, 5550 MHz, HT/VHT40 Beam Forming, M0 to M7**Antenna A****Antenna B**

Antenna Gain: 9 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	-68.3		-59.3	-41.25	18.1
	Non HT20, 6 to 54 Mbps	2	9	-68.1	-64.8	-54.1	-41.25	12.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-68.1	-64.8	-51.1	-41.25	9.9
	HT/VHT20, M0 to M7	1	9	-68.5		-59.5	-41.25	18.3
	HT/VHT20, M0 to M7	2	9	-67.3	-64.5	-53.7	-41.25	12.4
	HT/VHT20, M8 to M15	2	9	-67.0	-64.3	-53.4	-41.25	12.2
	HT/VHT20 Beam Forming, M0 to M7	2	12	-67.3	-64.5	-50.7	-41.25	9.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	-67.0	-64.3	-53.4	-41.25	12.2
	HT/VHT20 STBC, M0 to M7	2	9	-67.0	-64.3	-53.4	-41.25	12.2
5510	Non HT40, 6 to 54 Mbps	1	9	-68.6		-59.6	-41.25	18.4
	Non HT40, 6 to 54 Mbps	2	9	-67.6	-64.4	-53.7	-41.25	12.5
	HT/VHT40, M0 to M7	1	9	-68.3		-59.3	-41.25	18.1
	HT/VHT40, M0 to M7	2	9	-67.8	-63.2	-52.9	-41.25	11.7
	HT/VHT40, M8 to M15	2	9	-67.8	-63.2	-52.9	-41.25	11.7
	HT/VHT40 Beam Forming, M0 to M7	2	12	-66.4	-63.9	-50.0	-41.25	8.7
	HT/VHT40 Beam Forming, M8 to M15	2	9	-67.8	-63.2	-52.9	-41.25	11.7
	HT/VHT40 STBC, M0 to M7	2	9	-67.8	-63.2	-52.9	-41.25	11.7
5530	Non HT80, 6 to 54 Mbps	1	9	-67.8		-58.8	-41.25	17.6
	Non HT80, 6 to 54 Mbps	2	9	-67.3	-64.7	-53.8	-41.25	12.5
	VHT80, M0 to M9 1ss	1	9	-69.1		-60.1	-41.25	18.9
	VHT80, M0 to M9 1ss	2	9	-69.8	-63.4	-53.5	-41.25	12.3
	VHT80, M0 to M9 2ss	2	9	-69.8	-63.4	-53.5	-41.25	12.3
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-69.3	-63.8	-50.7	-41.25	9.5
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-69.8	-63.4	-53.5	-41.25	12.3
	VHT80 STBC, M0 to M9 1ss	2	9	-69.8	-63.4	-53.5	-41.25	12.3
5550	Non HT40, 6 to 54 Mbps	1	9	-65.7		-56.7	-41.25	15.5
	Non HT40, 6 to 54 Mbps	2	9	-66.5	-64.8	-53.6	-41.25	12.3
	HT/VHT40, M0 to M7	1	9	-66.2		-57.2	-41.25	16.0
	HT/VHT40, M0 to M7	2	9	-67.5	-63.0	-52.7	-41.25	11.4
	HT/VHT40, M8 to M15	2	9	-65.8	-63.0	-52.2	-41.25	10.9
	HT/VHT40 Beam Forming, M0 to M7	2	12	-66.7	-63.8	-50.0	-41.25	8.8
	HT/VHT40 Beam Forming, M8 to M15	2	9	-65.8	-63.0	-52.2	-41.25	10.9

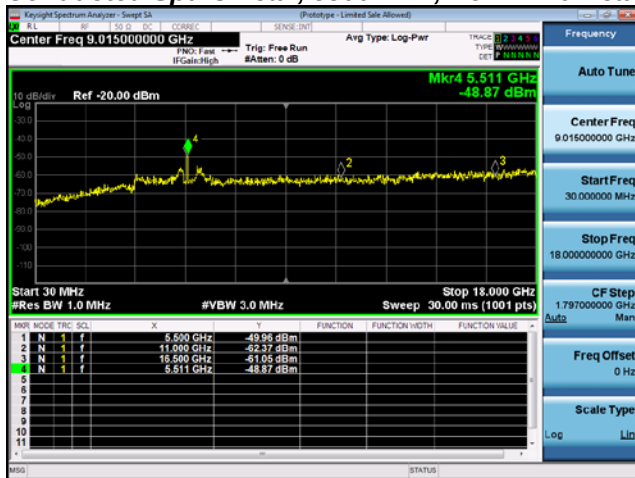
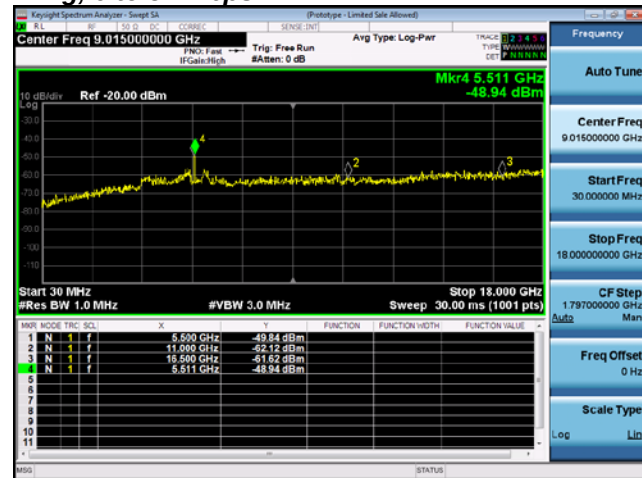
	HT/VHT40 STBC, M0 to M7	2	9	-65.8	-63.0	-52.2	-41.25	10.9
5560	Non HT20, 6 to 54 Mbps	1	9	-66.2		-57.2	-41.25	16.0
	Non HT20, 6 to 54 Mbps	2	9	-67.2	-64.1	-53.4	-41.25	12.1
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-67.2	-64.1	-50.4	-41.25	9.1
	HT/VHT20, M0 to M7	1	9	-67.2		-58.2	-41.25	17.0
	HT/VHT20, M0 to M7	2	9	-67.0	-64.0	-53.2	-41.25	12.0
	HT/VHT20, M8 to M15	2	9	-67.1	-63.8	-53.1	-41.25	11.9
	HT/VHT20 Beam Forming, M0 to M7	2	12	-67.0	-64.0	-50.2	-41.25	9.0
	HT/VHT20 Beam Forming, M8 to M15	2	9	-67.1	-63.8	-53.1	-41.25	11.9
	HT/VHT20 STBC, M0 to M7	2	9	-67.1	-63.8	-53.1	-41.25	11.9
5670	Non HT40, 6 to 54 Mbps	1	9	-67.8		-58.8	-41.25	17.6
	Non HT40, 6 to 54 Mbps	2	9	-69.5	-65.3	-54.9	-41.25	13.7
	HT/VHT40, M0 to M7	1	9	-67.8		-58.8	-41.25	17.6
	HT/VHT40, M0 to M7	2	9	-67.4	-65.5	-54.3	-41.25	13.1
	HT/VHT40, M8 to M15	2	9	-69.4	-65.3	-54.9	-41.25	13.6
	HT/VHT40 Beam Forming, M0 to M7	2	12	-70.0	-64.7	-51.6	-41.25	10.3
	HT/VHT40 Beam Forming, M8 to M15	2	9	-69.4	-65.3	-54.9	-41.25	13.6
	HT/VHT40 STBC, M0 to M7	2	9	-69.4	-65.3	-54.9	-41.25	13.6
5700	Non HT20, 6 to 54 Mbps	1	9	-67.8		-58.8	-41.25	17.6
	Non HT20, 6 to 54 Mbps	2	9	-68.0	-64.1	-53.6	-41.25	12.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-68.0	-64.1	-50.6	-41.25	9.4
	HT/VHT20, M0 to M7	1	9	-68.6		-59.6	-41.25	18.4
	HT/VHT20, M0 to M7	2	9	-68.1	-67.3	-55.7	-41.25	14.4
	HT/VHT20, M8 to M15	2	9	-69.4	-65.1	-54.7	-41.25	13.5
	HT/VHT20 Beam Forming, M0 to M7	2	12	-68.4	-65.6	-51.8	-41.25	10.5
	HT/VHT20 Beam Forming, M8 to M15	2	9	-69.4	-65.1	-54.7	-41.25	13.5
	HT/VHT20 STBC, M0 to M7	2	9	-69.4	-65.1	-54.7	-41.25	13.5

Conducted Spurs Average, 5510 MHz, HT/VHT40 Beam Forming, M0 to M7**Antenna A****Antenna B**

Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	-60.3		-55.3	-21.25	34.1
	Non HT20, 6 to 54 Mbps	2	5	-48.9	-48.9	-40.9	-21.25	19.6
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-48.9	-48.9	-37.9	-21.25	16.6
	HT/VHT20, M0 to M7	1	5	-59.1		-54.1	-21.25	32.9
	HT/VHT20, M0 to M7	2	5	-49.3	-59.6	-43.9	-21.25	22.7
	HT/VHT20, M8 to M15	2	5	-46.9	-58.3	-41.6	-21.25	20.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	-49.3	-59.6	-40.9	-21.25	19.7
	HT/VHT20 Beam Forming, M8 to M15	2	5	-46.9	-58.3	-41.6	-21.25	20.3
	HT/VHT20 STBC, M0 to M7	2	5	-46.9	-58.3	-41.6	-21.25	20.3
5510	Non HT40, 6 to 54 Mbps	1	5	-58.7		-53.7	-21.25	32.5
	Non HT40, 6 to 54 Mbps	2	5	-53.5	-53.2	-45.3	-21.25	24.1
	HT/VHT40, M0 to M7	1	5	-61.5		-56.5	-21.25	35.3
	HT/VHT40, M0 to M7	2	5	-59.1	-61.0	-51.9	-21.25	30.7
	HT/VHT40, M8 to M15	2	5	-59.1	-61.0	-51.9	-21.25	30.7
	HT/VHT40 Beam Forming, M0 to M7	2	8	-59.2	-53.9	-44.8	-21.25	23.5
	HT/VHT40 Beam Forming, M8 to M15	2	5	-59.1	-61.0	-51.9	-21.25	30.7
	HT/VHT40 STBC, M0 to M7	2	5	-59.1	-61.0	-51.9	-21.25	30.7
5530	Non HT80, 6 to 54 Mbps	1	5	-60.5		-55.5	-21.25	34.3
	Non HT80, 6 to 54 Mbps	2	5	-61.0	-60.8	-52.9	-21.25	31.6
	VHT80, M0 to M9 1ss	1	5	-60.1		-55.1	-21.25	33.9
	VHT80, M0 to M9 1ss	2	5	-61.0	-60.5	-52.7	-21.25	31.5
	VHT80, M0 to M9 2ss	2	5	-61.0	-60.5	-52.7	-21.25	31.5
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-60.4	-59.3	-48.8	-21.25	27.6
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-61.0	-60.5	-52.7	-21.25	31.5
	VHT80 STBC, M0 to M9 1ss	2	5	-61.0	-60.5	-52.7	-21.25	31.5
5550	Non HT40, 6 to 54 Mbps	1	5	-60.4		-55.4	-21.25	34.2
	Non HT40, 6 to 54 Mbps	2	5	-58.9	-53.1	-47.1	-21.25	25.8
	HT/VHT40, M0 to M7	1	5	-53.9		-48.9	-21.25	27.7
	HT/VHT40, M0 to M7	2	5	-53.3	-61.8	-47.7	-21.25	26.5
	HT/VHT40, M8 to M15	2	5	-58.7	-59.5	-51.1	-21.25	29.8
	HT/VHT40 Beam Forming, M0 to M7	2	8	-59.6	-53.9	-44.9	-21.25	23.6
	HT/VHT40 Beam Forming, M8 to M15	2	5	-58.7	-59.5	-51.1	-21.25	29.8

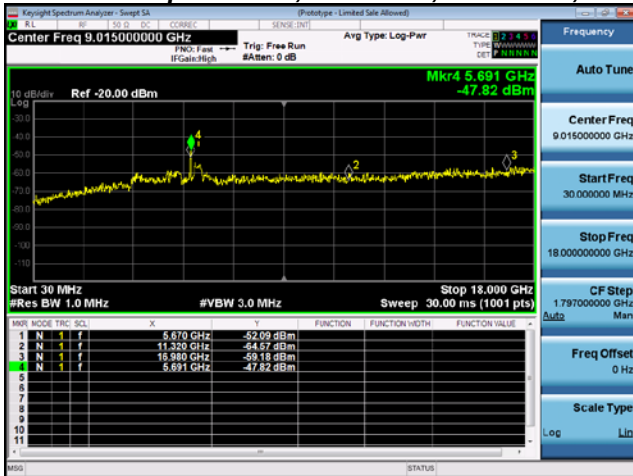
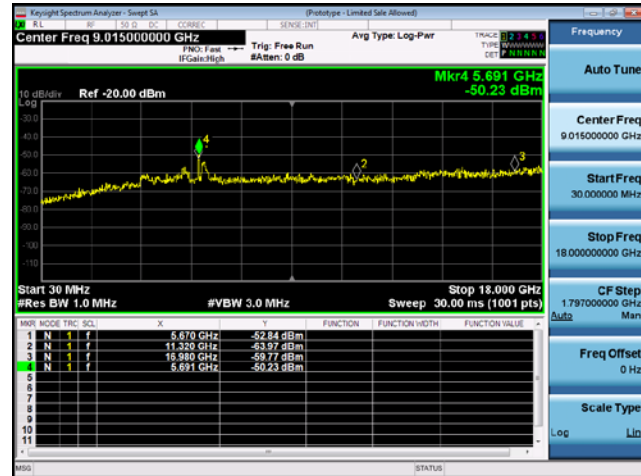
	HT/VHT40 STBC, M0 to M7	2	5	-58.7	-59.5	-51.1	-21.25	29.8
5560	Non HT20, 6 to 54 Mbps	1	5	-52.9		-47.9	-21.25	26.7
	Non HT20, 6 to 54 Mbps	2	5	-58.6	-59.6	-51.1	-21.25	29.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-58.6	-59.6	-48.1	-21.25	26.8
	HT/VHT20, M0 to M7	1	5	-53.6		-48.6	-21.25	27.4
	HT/VHT20, M0 to M7	2	5	-53.4	-53.7	-45.5	-21.25	24.3
	HT/VHT20, M8 to M15	2	5	-53.2	-53.9	-45.5	-21.25	24.3
	HT/VHT20 Beam Forming, M0 to M7	2	8	-53.4	-53.7	-42.5	-21.25	21.3
	HT/VHT20 Beam Forming, M8 to M15	2	5	-53.2	-53.9	-45.5	-21.25	24.3
	HT/VHT20 STBC, M0 to M7	2	5	-53.2	-53.9	-45.5	-21.25	24.3
5670	Non HT40, 6 to 54 Mbps	1	5	-45.6		-40.6	-21.25	19.4
	Non HT40, 6 to 54 Mbps	2	5	-49.7	-47.6	-40.5	-21.25	19.3
	HT/VHT40, M0 to M7	1	5	-45.5		-40.5	-21.25	19.3
	HT/VHT40, M0 to M7	2	5	-48.0	-49.4	-40.6	-21.25	19.4
	HT/VHT40, M8 to M15	2	5	-45.9	-46.2	-38.0	-21.25	16.8
	HT/VHT40 Beam Forming, M0 to M7	2	8	-50.2	-48.9	-38.5	-21.25	17.2
	HT/VHT40 Beam Forming, M8 to M15	2	5	-45.9	-46.2	-38.0	-21.25	16.8
	HT/VHT40 STBC, M0 to M7	2	5	-45.9	-46.2	-38.0	-21.25	16.8
5700	Non HT20, 6 to 54 Mbps	1	5	-56.4		-51.4	-21.25	30.2
	Non HT20, 6 to 54 Mbps	2	5	-57.9	-59.2	-50.5	-21.25	29.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-57.9	-59.2	-47.5	-21.25	26.2
	HT/VHT20, M0 to M7	1	5	-57.7		-52.7	-21.25	31.5
	HT/VHT20, M0 to M7	2	5	-57.7	-57.9	-49.8	-21.25	28.5
	HT/VHT20, M8 to M15	2	5	-57.7	-57.9	-49.8	-21.25	28.5
	HT/VHT20 Beam Forming, M0 to M7	2	8	-57.7	-57.9	-46.8	-21.25	25.5
	HT/VHT20 Beam Forming, M8 to M15	2	5	-57.7	-57.9	-49.8	-21.25	28.5
	HT/VHT20 STBC, M0 to M7	2	5	-57.7	-57.9	-49.8	-21.25	28.5

Conducted Spurs Peak, 5500 MHz, Non HT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

Antenna Gain: 9 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Spur Power (dBm)	Tx 2 Spur Power (dBm)	Total Conducted Spur (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	-59.7		-50.7	-21.25	29.5
	Non HT20, 6 to 54 Mbps	2	9	-60.3	-52.4	-42.7	-21.25	21.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-60.3	-52.4	-39.7	-21.25	18.5
	HT/VHT20, M0 to M7	1	9	-59.5		-50.5	-21.25	29.3
	HT/VHT20, M0 to M7	2	9	-61.9	-61.1	-49.5	-21.25	28.2
	HT/VHT20, M8 to M15	2	9	-61.5	-59.7	-48.5	-21.25	27.2
	HT/VHT20 Beam Forming, M0 to M7	2	12	-61.9	-61.1	-46.5	-21.25	25.2
	HT/VHT20 Beam Forming, M8 to M15	2	9	-61.5	-59.7	-48.5	-21.25	27.2
	HT/VHT20 STBC, M0 to M7	2	9	-61.5	-59.7	-48.5	-21.25	27.2
5510	Non HT40, 6 to 54 Mbps	1	9	-53.5		-44.5	-21.25	23.3
	Non HT40, 6 to 54 Mbps	2	9	-59.1	-60.0	-47.5	-21.25	26.3
	HT/VHT40, M0 to M7	1	9	-59.1		-50.1	-21.25	28.9
	HT/VHT40, M0 to M7	2	9	-60.8	-59.5	-48.1	-21.25	26.8
	HT/VHT40, M8 to M15	2	9	-60.8	-59.5	-48.1	-21.25	26.8
	HT/VHT40 Beam Forming, M0 to M7	2	12	-59.3	-61.6	-45.3	-21.25	24.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	-60.8	-59.5	-48.1	-21.25	26.8
	HT/VHT40 STBC, M0 to M7	2	9	-60.8	-59.5	-48.1	-21.25	26.8
5530	Non HT80, 6 to 54 Mbps	1	9	-61.0		-52.0	-21.25	30.8
	Non HT80, 6 to 54 Mbps	2	9	-60.6	-59.2	-47.8	-21.25	26.6
	VHT80, M0 to M9 1ss	1	9	-59.7		-50.7	-21.25	29.5
	VHT80, M0 to M9 1ss	2	9	-59.4	-58.8	-47.1	-21.25	25.8
	VHT80, M0 to M9 2ss	2	9	-59.4	-58.8	-47.1	-21.25	25.8
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-61.9	-61.1	-46.5	-21.25	25.2
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-59.4	-58.8	-47.1	-21.25	25.8
	VHT80 STBC, M0 to M9 1ss	2	9	-59.4	-58.8	-47.1	-21.25	25.8
5550	Non HT40, 6 to 54 Mbps	1	9	-60.0		-51.0	-21.25	29.8
	Non HT40, 6 to 54 Mbps	2	9	-61.5	-61.7	-49.6	-21.25	28.3
	HT/VHT40, M0 to M7	1	9	-53.3		-44.3	-21.25	23.1
	HT/VHT40, M0 to M7	2	9	-58.6	-60.8	-47.6	-21.25	26.3
	HT/VHT40, M8 to M15	2	9	-59.9	-59.5	-47.7	-21.25	26.4
	HT/VHT40 Beam Forming, M0 to M7	2	12	-60.7	-61.9	-46.2	-21.25	25.0
	HT/VHT40 Beam Forming, M8 to M15	2	9	-59.9	-59.5	-47.7	-21.25	26.4

	HT/VHT40 STBC, M0 to M7	2	9	-59.9	-59.5	-47.7	-21.25	26.4
5560	Non HT20, 6 to 54 Mbps	1	9	-53.8		-44.8	-21.25	23.6
	Non HT20, 6 to 54 Mbps	2	9	-60.1	-54.0	-44.0	-21.25	22.8
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-60.1	-54.0	-41.0	-21.25	19.8
	HT/VHT20, M0 to M7	1	9	-53.2		-44.2	-21.25	23.0
	HT/VHT20, M0 to M7	2	9	-61.2	-58.9	-47.9	-21.25	26.6
	HT/VHT20, M8 to M15	2	9	-59.1	-60.6	-47.8	-21.25	26.5
	HT/VHT20 Beam Forming, M0 to M7	2	12	-61.2	-58.9	-44.9	-21.25	23.6
	HT/VHT20 Beam Forming, M8 to M15	2	9	-59.1	-60.6	-47.8	-21.25	26.5
	HT/VHT20 STBC, M0 to M7	2	9	-59.1	-60.6	-47.8	-21.25	26.5
5670	Non HT40, 6 to 54 Mbps	1	9	-46.8		-37.8	-21.25	16.6
	Non HT40, 6 to 54 Mbps	2	9	-51.1	-51.0	-39.0	-21.25	17.8
	HT/VHT40, M0 to M7	1	9	-47.1		-38.1	-21.25	16.9
	HT/VHT40, M0 to M7	2	9	-52.8	-52.3	-40.5	-21.25	19.3
	HT/VHT40, M8 to M15	2	9	-47.8	-50.2	-36.8	-21.25	15.6
	HT/VHT40 Beam Forming, M0 to M7	2	12	-53.1	-53.9	-38.5	-21.25	17.2
	HT/VHT40 Beam Forming, M8 to M15	2	9	-47.8	-50.2	-36.8	-21.25	15.6
	HT/VHT40 STBC, M0 to M7	2	9	-47.8	-50.2	-36.8	-21.25	15.6
5700	Non HT20, 6 to 54 Mbps	1	9	-57.9		-48.9	-21.25	27.7
	Non HT20, 6 to 54 Mbps	2	9	-49.5	-61.8	-40.3	-21.25	19.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-49.5	-61.8	-37.3	-21.25	16.0
	HT/VHT20, M0 to M7	1	9	-57.7		-48.7	-21.25	27.5
	HT/VHT20, M0 to M7	2	9	-57.8	-48.9	-39.4	-21.25	18.1
	HT/VHT20, M8 to M15	2	9	-60.7	-58.7	-47.6	-21.25	26.3
	HT/VHT20 Beam Forming, M0 to M7	2	12	-59.1	-60.1	-44.6	-21.25	23.3
	HT/VHT20 Beam Forming, M8 to M15	2	9	-60.7	-58.7	-47.6	-21.25	26.3
	HT/VHT20 STBC, M0 to M7	2	9	-60.7	-58.7	-47.6	-21.25	26.3

Conducted Spurs Peak, 5670 MHz, HT/VHT40, M8 to M15**Antenna A****Antenna B**

A.4 Conducted Bandedge

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

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

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

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

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

Test Procedure

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

Conducted Bandedge Test Procedure
1. Connect the antenna port(s) to the spectrum analyzer input. 2. Place the radio in continuous transmit mode. Use the procedures in 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. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. 5. The "measure-and-sum technique" is used for measuring in-band transmit power of a device. In the measure-and-sum approach, the conducted emission level is measured at each antenna port. The measured results at the various antenna ports are then summed mathematically to determine the total emission level from the device. Summing is performed in linear power units. The worst case output is recorded. 6. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands 7. Capture graphs and record pertinent measurement data.

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

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

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

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

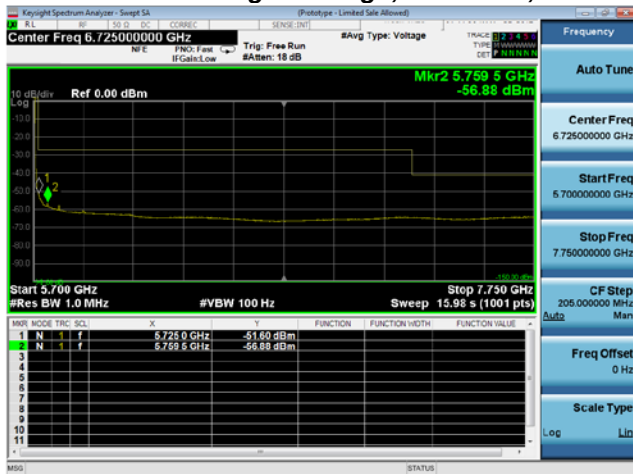
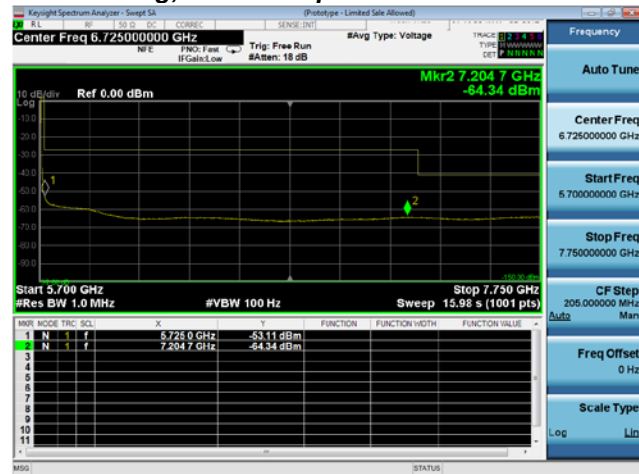
See Appendix C for list of test equipment

Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	-46.4		-41.4	-41.25	0.1
	Non HT20, 6 to 54 Mbps	2	5	-52.7	-52.6	-44.6	-41.25	3.4
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-52.7	-52.6	-41.6	-41.25	0.4
	HT/VHT20, M0 to M7	1	5	-48.1		-43.1	-41.25	1.9
	HT/VHT20, M0 to M7	2	5	-52.4	-52.3	-44.3	-41.25	3.1
	HT/VHT20, M8 to M15	2	5	-49.3	-50.9	-42.0	-41.25	0.8
	HT/VHT20 Beam Forming, M0 to M7	2	8	-52.4	-52.3	-41.3	-41.25	0.1
	HT/VHT20 Beam Forming, M8 to M15	2	5	-49.3	-50.9	-42.0	-41.25	0.8
	HT/VHT20 STBC, M0 to M7	2	5	-49.3	-50.9	-42.0	-41.25	0.8
5510	Non HT40, 6 to 54 Mbps	1	5	-49.5		-44.5	-41.25	3.3
	Non HT40, 6 to 54 Mbps	2	5	-50.4	-50.4	-42.4	-41.25	1.1
	HT/VHT40, M0 to M7	1	5	-46.8		-41.8	-41.25	0.5
	HT/VHT40, M0 to M7	2	5	-49.2	-49.9	-41.5	-41.25	0.3
	HT/VHT40, M8 to M15	2	5	-49.2	-49.9	-41.5	-41.25	0.3
	HT/VHT40 Beam Forming, M0 to M7	2	8	-55.2	-53.1	-43.0	-41.25	1.8
	HT/VHT40 Beam Forming, M8 to M15	2	5	-49.2	-49.9	-41.5	-41.25	0.3
	HT/VHT40 STBC, M0 to M7	2	5	-49.2	-49.9	-41.5	-41.25	0.3
5530	Non HT80, 6 to 54 Mbps	1	5	-46.6		-41.6	-41.25	0.4
	Non HT80, 6 to 54 Mbps	2	5	-49.2	-49.9	-41.5	-41.25	0.3
	VHT80, M0 to M9 1ss	1	5	-46.5		-41.5	-41.25	0.3
	VHT80, M0 to M9 1ss	2	5	-49.4	-49.9	-41.6	-41.25	0.4
	VHT80, M0 to M9 2ss	2	5	-49.4	-49.9	-41.6	-41.25	0.4
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-54.1	-52.1	-42.0	-41.25	0.7
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-49.4	-49.9	-41.6	-41.25	0.4
	VHT80 STBC, M0 to M9 1ss	2	5	-49.4	-49.9	-41.6	-41.25	0.4
5700	Non HT20, 6 to 54 Mbps	1	5	-50.1		-45.1	-41.25	3.8
	Non HT20, 6 to 54 Mbps	2	5	-50.8	-51.8	-43.3	-41.25	2.0
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-51.6	-53.1	-41.3	-41.25	0.0
	HT/VHT20, M0 to M7	1	5	-50.9		-45.9	-41.25	4.7
	HT/VHT20, M0 to M7	2	5	-50.9	-51.0	-42.9	-41.25	1.7
	HT/VHT20, M8 to M15	2	5	-50.9	-51.0	-42.9	-41.25	1.7
	HT/VHT20 Beam Forming, M0 to M7	2	8	-52.0	-53.6	-41.7	-41.25	0.5

	HT/VHT20 Beam Forming, M8 to M15	2	5	-50.9	-51.0	-42.9	-41.25	1.7
	HT/VHT20 STBC, M0 to M7	2	5	-50.9	-51.0	-42.9	-41.25	1.7

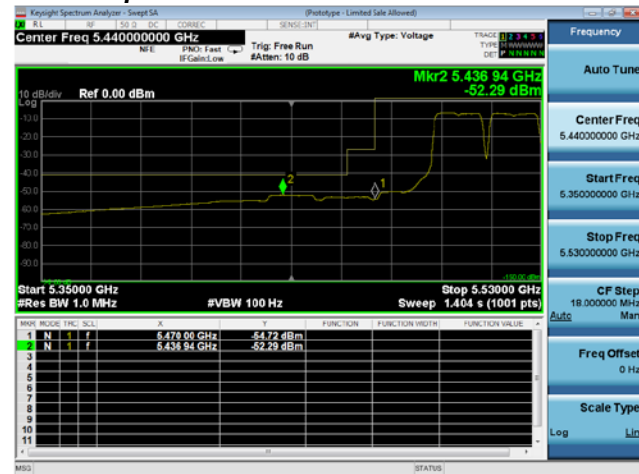
Conducted Bandedge Average, 5500 MHz, HT/VHT20 Beam Forming, M0 to M7**Antenna A****Antenna B**

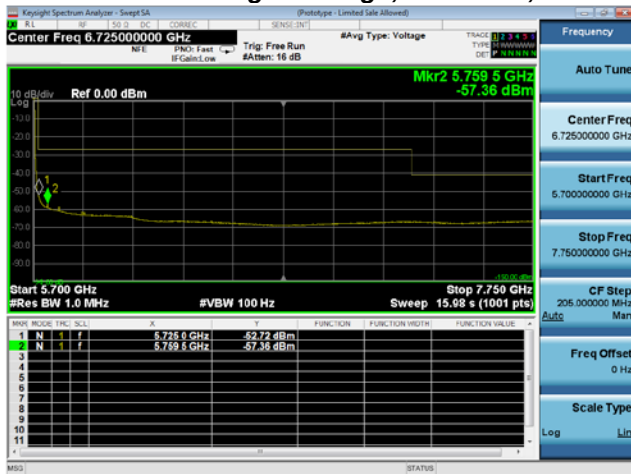
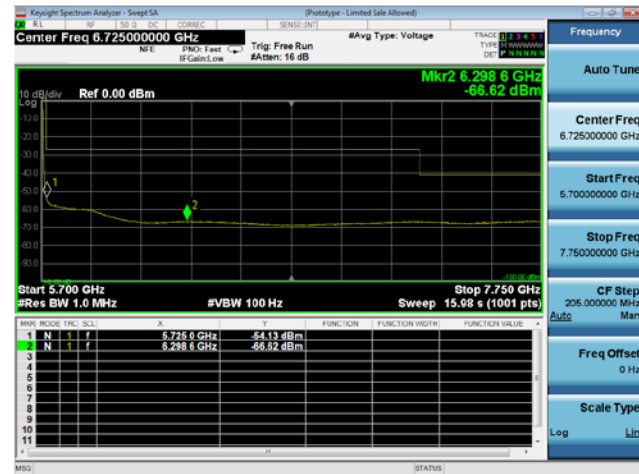
Conducted Bandedge Average, 5700 MHz, Non HT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

Antenna Gain: 9 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	-52.7		-43.7	-41.25	2.5
	Non HT20, 6 to 54 Mbps	2	9	-53.6	-55.9	-42.6	-41.25	1.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-58.7	-59.3	-44.0	-41.25	2.7
	HT/VHT20, M0 to M7	1	9	-52.4		-43.4	-41.25	2.2
	HT/VHT20, M0 to M7	2	9	-53.7	-55.5	-42.5	-41.25	1.2
	HT/VHT20, M8 to M15	2	9	-53.5	-54.2	-41.8	-41.25	0.6
	HT/VHT20 Beam Forming, M0 to M7	2	12	-58.3	-59.0	-43.6	-41.25	2.4
	HT/VHT20 Beam Forming, M8 to M15	2	9	-53.5	-54.2	-41.8	-41.25	0.6
	HT/VHT20 STBC, M0 to M7	2	9	-53.5	-54.2	-41.8	-41.25	0.6
5510	Non HT40, 6 to 54 Mbps	1	9	-50.4		-41.4	-41.25	0.2
	Non HT40, 6 to 54 Mbps	2	9	-53.9	-54.4	-42.1	-41.25	0.9
	HT/VHT40, M0 to M7	1	9	-50.4		-41.4	-41.25	0.2
	HT/VHT40, M0 to M7	2	9	-55.2	-53.1	-42.0	-41.25	0.8
	HT/VHT40, M8 to M15	2	9	-55.2	-53.1	-42.0	-41.25	0.8
	HT/VHT40 Beam Forming, M0 to M7	2	12	-57.3	-56.2	-41.7	-41.25	0.5
	HT/VHT40 Beam Forming, M8 to M15	2	9	-55.2	-53.1	-42.0	-41.25	0.8
	HT/VHT40 STBC, M0 to M7	2	9	-55.2	-53.1	-42.0	-41.25	0.8
5530	Non HT80, 6 to 54 Mbps	1	9	-50.7		-41.7	-41.25	0.5
	Non HT80, 6 to 54 Mbps	2	9	-54.8	-52.3	-41.4	-41.25	0.1
	VHT80, M0 to M9 1ss	1	9	-51.5		-42.5	-41.25	1.3
	VHT80, M0 to M9 1ss	2	9	-55.4	-53.8	-42.5	-41.25	1.3
	VHT80, M0 to M9 2ss	2	9	-55.4	-53.8	-42.5	-41.25	1.3
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-57.2	-55.9	-41.5	-41.25	0.2
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-55.4	-53.8	-42.5	-41.25	1.3
	VHT80 STBC, M0 to M9 1ss	2	9	-55.4	-53.8	-42.5	-41.25	1.3
5700	Non HT20, 6 to 54 Mbps	1	9	-50.8		-41.8	-41.25	0.6
	Non HT20, 6 to 54 Mbps	2	9	-55.0	-55.0	-43.0	-41.25	1.7
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-55.9	-58.0	-41.8	-41.25	0.6
	HT/VHT20, M0 to M7	1	9	-50.9		-41.9	-41.25	0.7
	HT/VHT20, M0 to M7	2	9	-54.9	-54.6	-42.7	-41.25	1.5
	HT/VHT20, M8 to M15	2	9	-52.7	-54.1	-41.3	-41.25	0.1
	HT/VHT20 Beam Forming, M0 to M7	2	12	-55.7	-57.2	-41.4	-41.25	0.1

	HT/VHT20 Beam Forming, M8 to M15	2	9	-52.7	-54.1	-41.3	-41.25	0.1
	HT/VHT20 STBC, M0 to M7	2	9	-52.7	-54.1	-41.3	-41.25	0.1

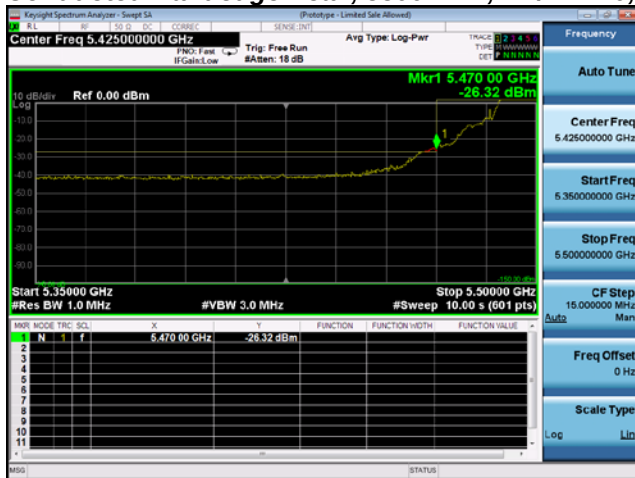
Conducted Bandedge Average, 5530 MHz, Non HT80, 6 to 54 Mbps**Antenna A****Antenna B**

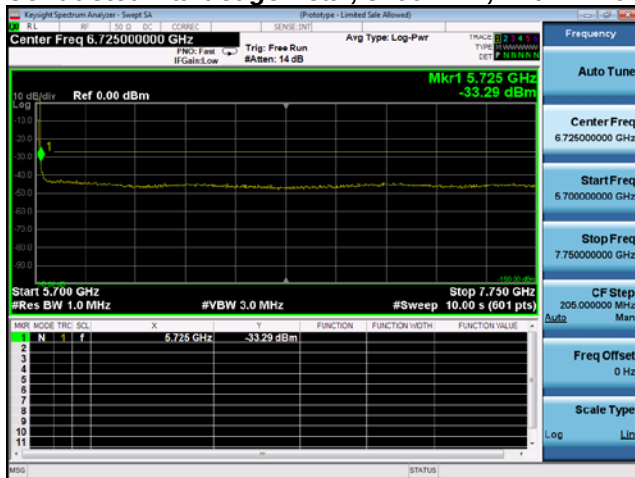
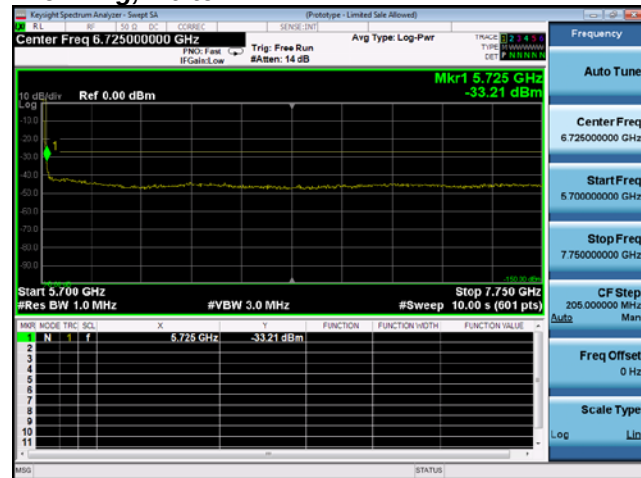
Conducted Bandedge Average, 5700 MHz, HT/VHT20, M8 to M15**Antenna A****Antenna B**

Antenna Gain: 5 dBi

Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	5	-26.8		-21.8	-21.25	0.6
	Non HT20, 6 to 54 Mbps	2	5	-40.1	-37.8	-30.8	-21.25	9.5
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-40.1	-37.8	-27.8	-21.25	6.5
	HT/VHT20, M0 to M7	1	5	-26.3		-21.3	-21.25	0.1
	HT/VHT20, M0 to M7	2	5	-38.8	-35.7	-29.0	-21.25	7.7
	HT/VHT20, M8 to M15	2	5	-29.3	-30.7	-21.9	-21.25	0.7
	HT/VHT20 Beam Forming, M0 to M7	2	8	-38.8	-35.7	-26.0	-21.25	4.7
	HT/VHT20 Beam Forming, M8 to M15	2	5	-29.3	-30.7	-21.9	-21.25	0.7
	HT/VHT20 STBC, M0 to M7	2	5	-29.3	-30.7	-21.9	-21.25	0.7
5510	Non HT40, 6 to 54 Mbps	1	5	-26.9		-21.9	-21.25	0.6
	Non HT40, 6 to 54 Mbps	2	5	-31.7	-28.5	-21.8	-21.25	0.6
	HT/VHT40, M0 to M7	1	5	-28.6		-23.6	-21.25	2.4
	HT/VHT40, M0 to M7	2	5	-37.3	-32.6	-26.3	-21.25	5.1
	HT/VHT40, M8 to M15	2	5	-37.3	-32.6	-26.3	-21.25	5.1
	HT/VHT40 Beam Forming, M0 to M7	2	8	-40.3	-39.0	-28.6	-21.25	7.3
	HT/VHT40 Beam Forming, M8 to M15	2	5	-37.3	-32.6	-26.3	-21.25	5.1
	HT/VHT40 STBC, M0 to M7	2	5	-37.3	-32.6	-26.3	-21.25	5.1
5530	Non HT80, 6 to 54 Mbps	1	5	-27.6		-22.6	-21.25	1.4
	Non HT80, 6 to 54 Mbps	2	5	-33.7	-30.7	-23.9	-21.25	2.7
	VHT80, M0 to M9 1ss	1	5	-29.5		-24.5	-21.25	3.3
	VHT80, M0 to M9 1ss	2	5	-37.1	-35.2	-28.0	-21.25	6.8
	VHT80, M0 to M9 2ss	2	5	-37.1	-35.2	-28.0	-21.25	6.8
	VHT80 Beam Forming, M0 to M9 1ss	2	8	-38.7	-39.0	-27.8	-21.25	6.6
	VHT80 Beam Forming, M0 to M9 2ss	2	5	-37.1	-35.2	-28.0	-21.25	6.8
	VHT80 STBC, M0 to M9 1ss	2	5	-37.1	-35.2	-28.0	-21.25	6.8
5700	Non HT20, 6 to 54 Mbps	1	5	-29.2		-24.2	-21.25	3.0
	Non HT20, 6 to 54 Mbps	2	5	-33.8	-34.5	-26.1	-21.25	4.9
	Non HT20 Beam Forming, 6 to 54 Mbps	2	8	-33.8	-34.5	-23.1	-21.25	1.9
	HT/VHT20, M0 to M7	1	5	-33.3		-28.3	-21.25	7.1
	HT/VHT20, M0 to M7	2	5	-33.3	-33.2	-25.2	-21.25	4.0
	HT/VHT20, M8 to M15	2	5	-33.3	-33.2	-25.2	-21.25	4.0
	HT/VHT20 Beam Forming, M0 to M7	2	8	-33.3	-33.2	-22.2	-21.25	1.0

	HT/VHT20 Beam Forming, M8 to M15	2	5	-33.3	-33.2	-25.2	-21.25	4.0
	HT/VHT20 STBC, M0 to M7	2	5	-33.3	-33.2	-25.2	-21.25	4.0

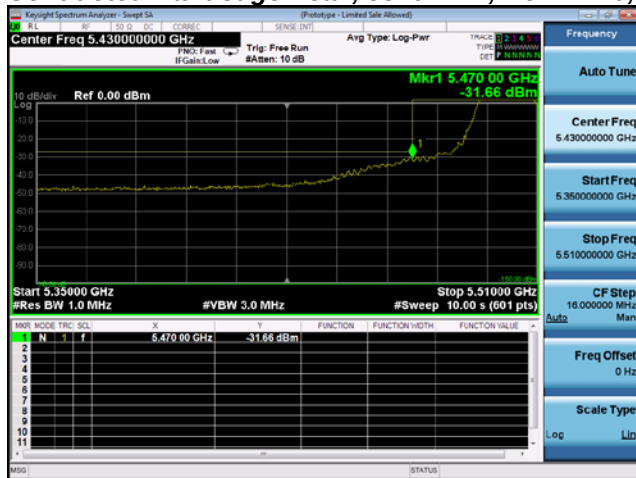
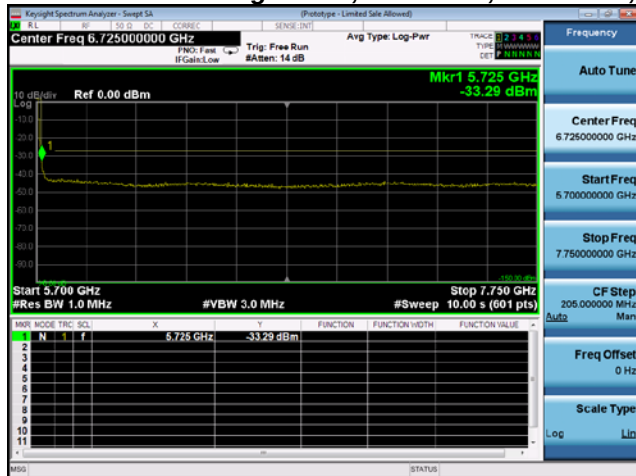
Conducted Bandedge Peak, 5500 MHz, HT/VHT20, M0 to M7**Antenna A**

Conducted Bandedge Peak, 5700 MHz, HT/VHT20 Beam Forming, M0 to M7**Antenna A****Antenna B**

Antenna Gain: 9 dBi

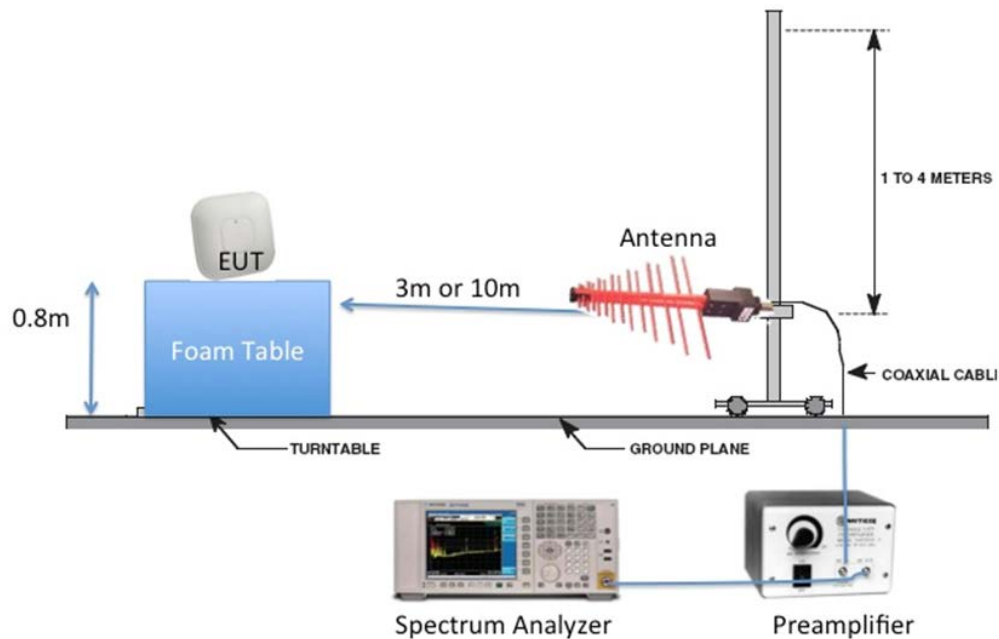
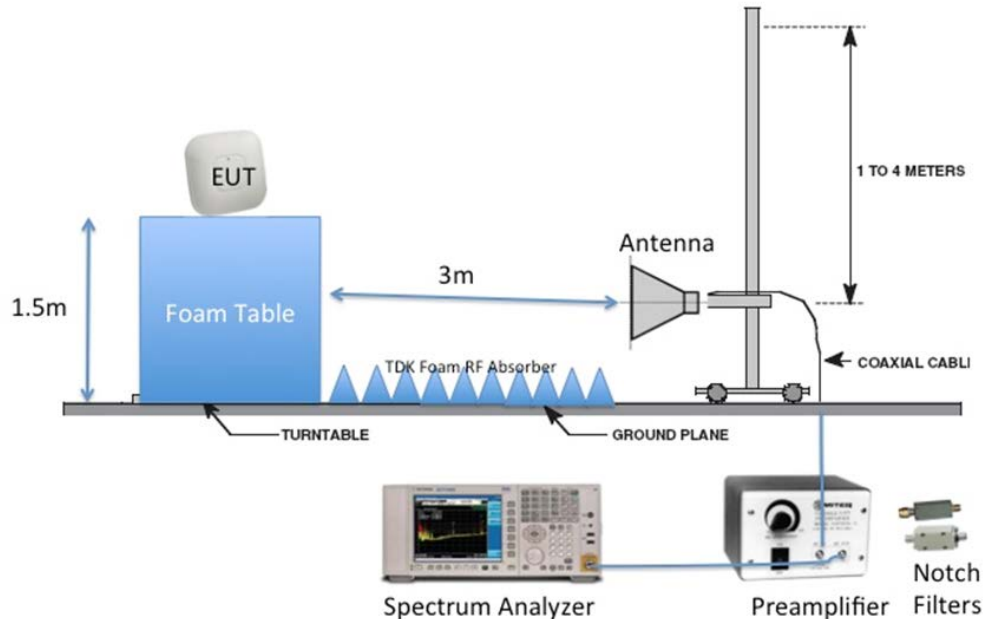
Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Bandedge Level (dBm)	Tx 2 Bandedge Level (dBm)	Total Tx Bandedge Level (dBm)	Limit (dBm)	Margin (dB)
5500	Non HT20, 6 to 54 Mbps	1	9	-35.7		-26.7	-21.25	5.5
	Non HT20, 6 to 54 Mbps	2	9	-43.8	-41.4	-30.4	-21.25	9.2
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-43.8	-41.4	-27.4	-21.25	6.2
	HT/VHT20, M0 to M7	1	9	-35.2		-26.2	-21.25	5.0
	HT/VHT20, M0 to M7	2	9	-42.7	-40.6	-29.5	-21.25	8.3
	HT/VHT20, M8 to M15	2	9	-38.4	-38.5	-26.4	-21.25	5.2
	HT/VHT20 Beam Forming, M0 to M7	2	12	-42.7	-40.6	-26.5	-21.25	5.3
	HT/VHT20 Beam Forming, M8 to M15	2	9	-38.4	-38.5	-26.4	-21.25	5.2
	HT/VHT20 STBC, M0 to M7	2	9	-38.4	-38.5	-26.4	-21.25	5.2
5510	Non HT40, 6 to 54 Mbps	1	9	-31.7		-22.7	-21.25	1.5
	Non HT40, 6 to 54 Mbps	2	9	-42.1	-39.0	-28.3	-21.25	7.0
	HT/VHT40, M0 to M7	1	9	-37.3		-28.3	-21.25	7.1
	HT/VHT40, M0 to M7	2	9	-40.5	-39.5	-28.0	-21.25	6.7
	HT/VHT40, M8 to M15	2	9	-40.5	-39.5	-28.0	-21.25	6.7
	HT/VHT40 Beam Forming, M0 to M7	2	12	-42.5	-41.4	-26.9	-21.25	5.7
	HT/VHT40 Beam Forming, M8 to M15	2	9	-40.5	-39.5	-28.0	-21.25	6.7
	HT/VHT40 STBC, M0 to M7	2	9	-40.5	-39.5	-28.0	-21.25	6.7
5530	Non HT80, 6 to 54 Mbps	1	9	-33.7		-24.7	-21.25	3.5
	Non HT80, 6 to 54 Mbps	2	9	-40.7	-40.5	-28.6	-21.25	7.3
	VHT80, M0 to M9 1ss	1	9	-37.9		-28.9	-21.25	7.7
	VHT80, M0 to M9 1ss	2	9	-42.4	-39.5	-28.7	-21.25	7.5
	VHT80, M0 to M9 2ss	2	9	-42.4	-39.5	-28.7	-21.25	7.5
	VHT80 Beam Forming, M0 to M9 1ss	2	12	-43.0	-41.8	-27.3	-21.25	6.1
	VHT80 Beam Forming, M0 to M9 2ss	2	9	-42.4	-39.5	-28.7	-21.25	7.5
	VHT80 STBC, M0 to M9 1ss	2	9	-42.4	-39.5	-28.7	-21.25	7.5
5700	Non HT20, 6 to 54 Mbps	1	9	-33.8		-24.8	-21.25	3.6
	Non HT20, 6 to 54 Mbps	2	9	-39.9	-41.4	-28.6	-21.25	7.3
	Non HT20 Beam Forming, 6 to 54 Mbps	2	12	-39.9	-41.4	-25.6	-21.25	4.3
	HT/VHT20, M0 to M7	1	9	-33.3		-24.3	-21.25	3.1
	HT/VHT20, M0 to M7	2	9	-42.2	-40.7	-29.4	-21.25	8.1
	HT/VHT20, M8 to M15	2	9	-37.4	-37.2	-25.3	-21.25	4.0
	HT/VHT20 Beam Forming, M0 to M7	2	12	-42.4	-42.5	-27.4	-21.25	6.2

	HT/VHT20 Beam Forming, M8 to M15	2	9	-37.4	-37.2	-25.3	-21.25	4.0
	HT/VHT20 STBC, M0 to M7	2	9	-37.4	-37.2	-25.3	-21.25	4.0

Conducted Bandedge Peak, 5510 MHz, Non HT40, 6 to 54 Mbps**Antenna A****Conducted Bandedge Peak, 5700 MHz, HT/VHT20, M0 to M7****Antenna A**

Appendix B: Emission Test Results

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

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

B.1 Radiated Spurious Emissions

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

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

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

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

Terminate the access Point RF ports with 50 ohm loads.

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

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

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

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

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

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

See Appendix C for list of test equipment

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

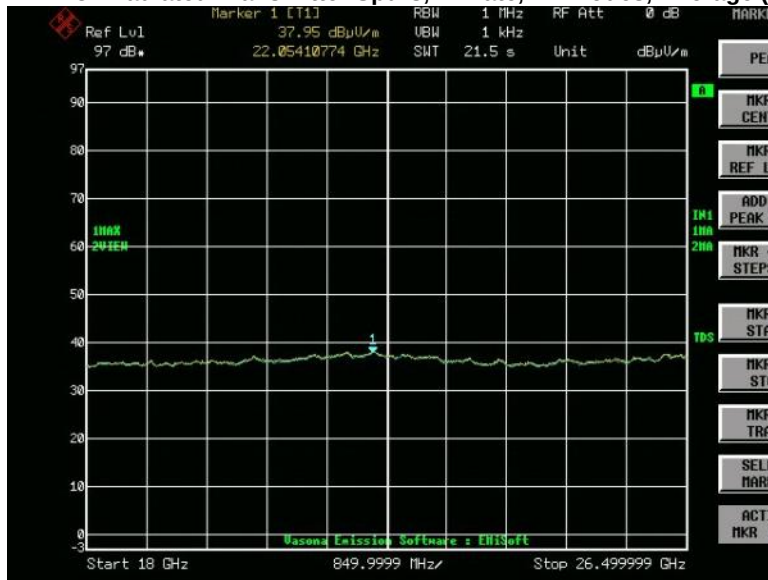
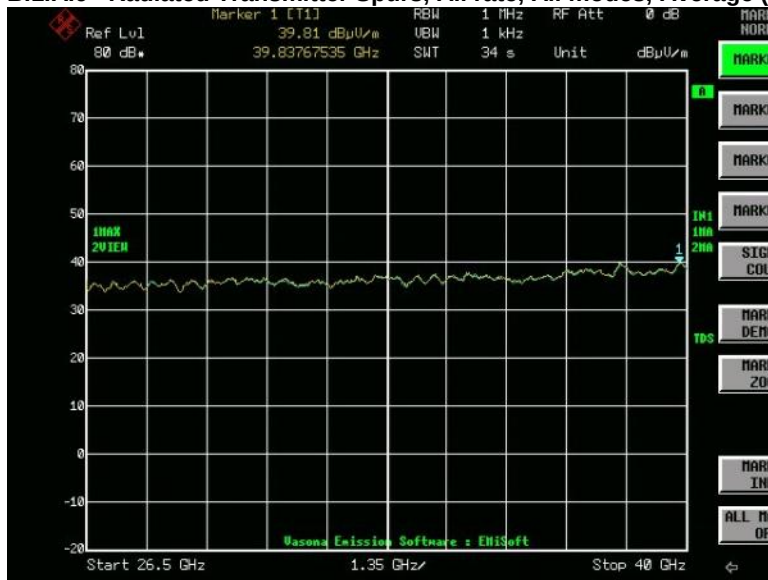
Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)	Margin dBuV/m)
5500	HT/VHT20, M0 to M15	M0	48.3	54.0	5.7
5510	HT/VHT40, M0 to M15	M0	48.7	54.0	5.3
5530	VHT80, M0.1 to M9.3	M0x1	48.3	54.0	5.7
5540	HT/VHT20, M0 to M15	M0	50.1	54.0	3.9
5550	HT/VHT40, M0 to M15	M0	49.3	54.0	4.7
5670	HT/VHT40, M0 to M15	M0	49.1	54.0	4.9
5700	HT/VHT20, M0 to M15	M0	50.1	54.0	3.9

B.1.A.1 Radiated Transmitter Spurs, 5500 MHz, HT/VHT20, M0 to M15, Average (1-18GHz)**B.1.A.2 Radiated Transmitter Spurs, 5510 MHz, HT/VHT40, M0 to M15, Average (1-18GHz)**

B.1.A.3 Radiated Transmitter Spurs, 5530 MHz, VHT80, M0.1 to M9.3, Average (1-18GHz)**B.1.A.4 Radiated Transmitter Spurs, 5550 MHz, HT/VHT40, M0 to M15, Average (1-18GHz)**

B.1.A.5 Radiated Transmitter Spurs, 5540 MHz, HT/VHT20, M0 to M15, Average (1-18GHz)**B.1.A.6 Radiated Transmitter Spurs, 5670 MHz, HT/VHT40, M0 to M15, M0.0 to M9.4, Average (1-18GHz)**

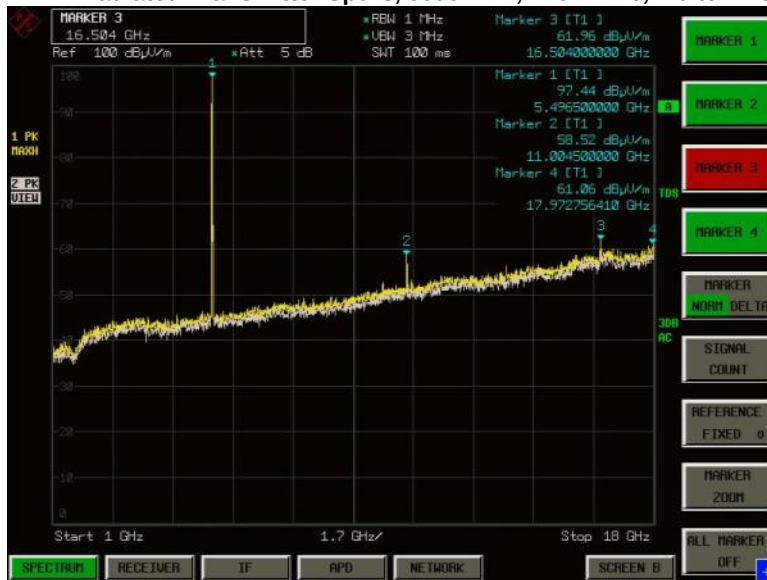
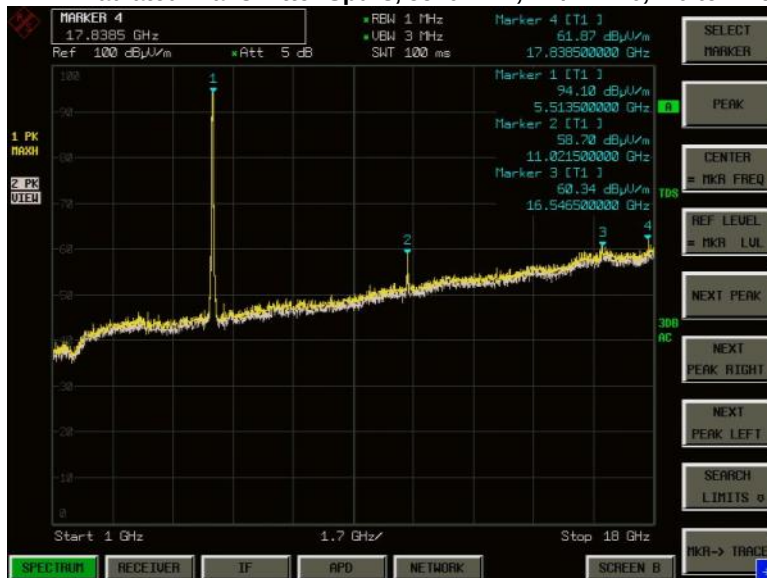
B.1.A.7 Radiated Transmitter Spurs, 5700 MHz, HT/VHT20, M0 to M15, Average (1-18GHz)

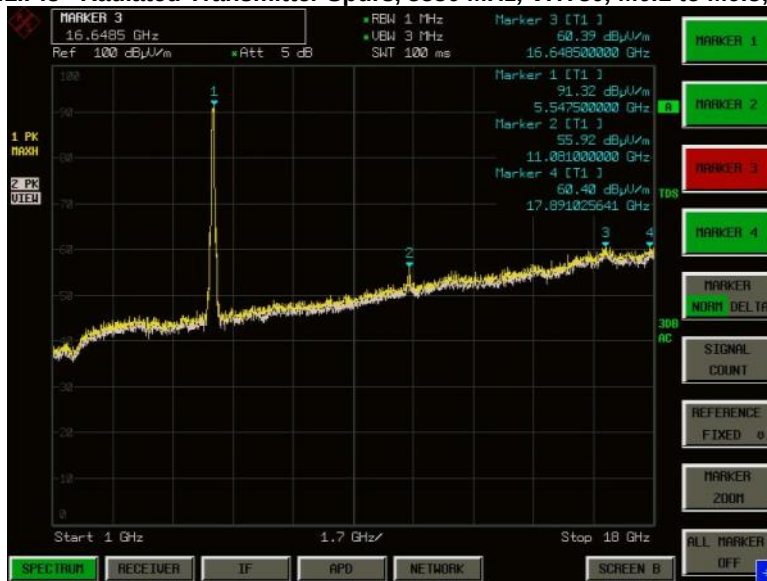
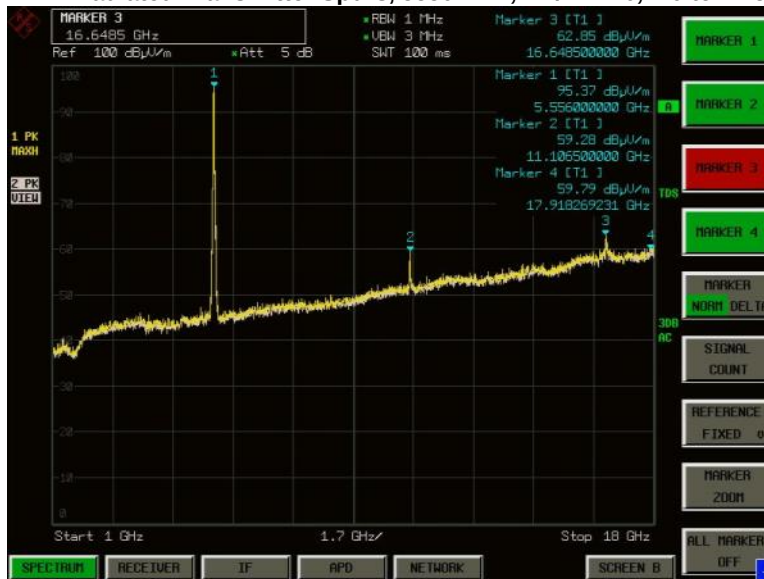
B.1.A.8 Radiated Transmitter Spurs, All rate, All modes, Average (18-26.5GHz) Horizontal & Vertical**B.1.A.9 Radiated Transmitter Spurs, All rate, All modes, Average (26.5-40GHz) Horizontal & Vertical**

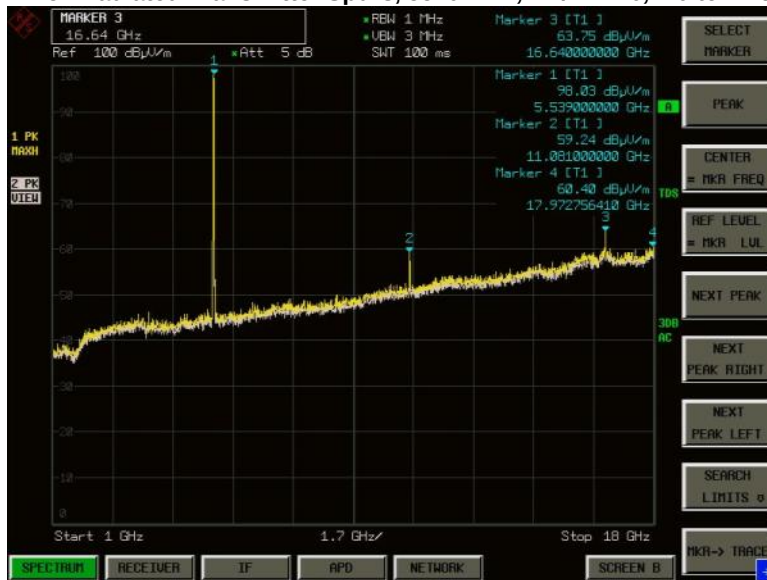
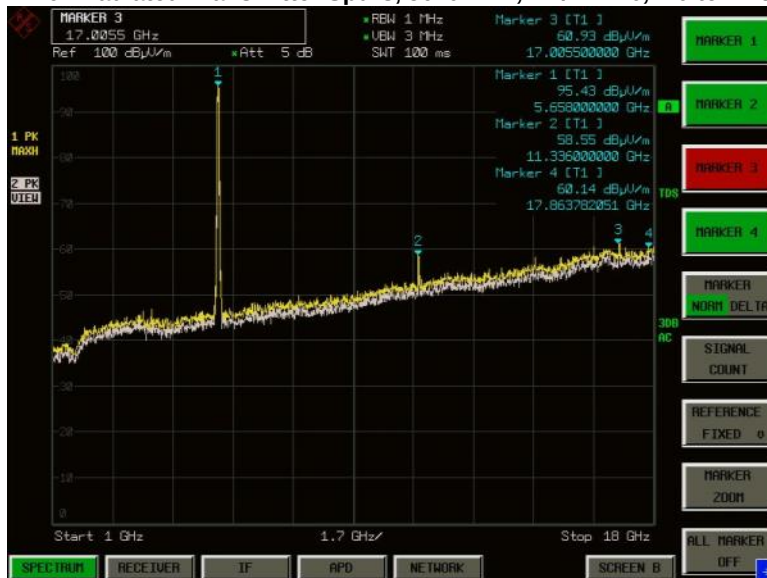
No emissions seen above 18GHz. The plots above are representative of all modes tested.

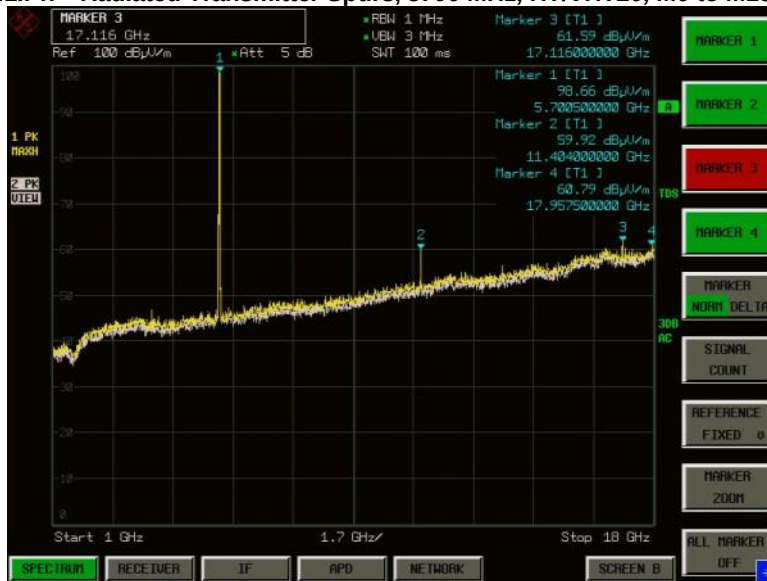
B.1.P Transmitter Radiated Spurious Emissions-Peak worst case

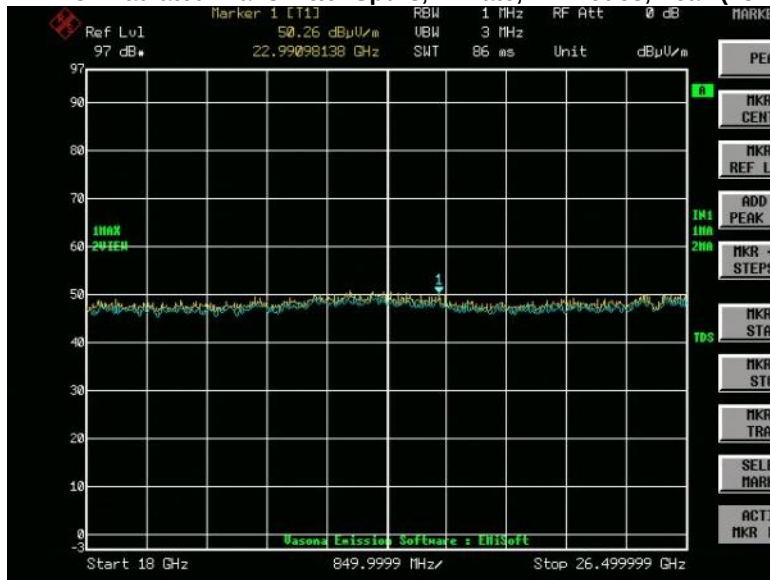
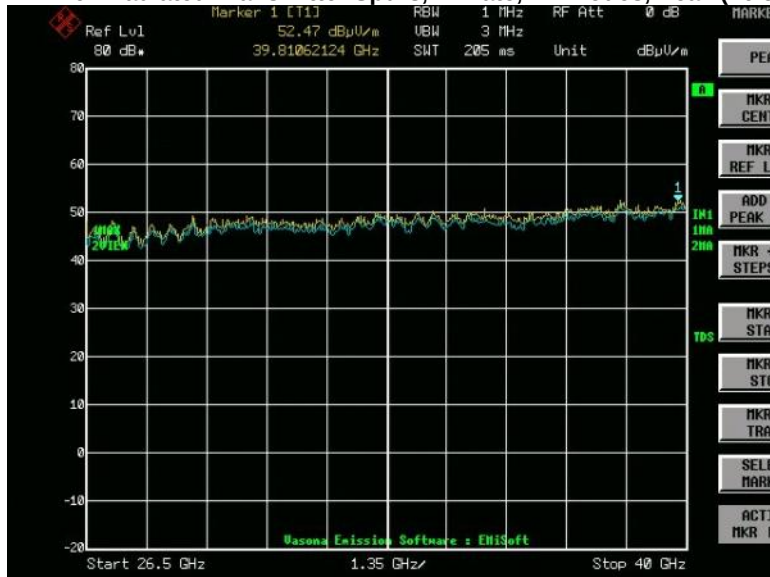
Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)	Margin dBuV/m)
5500	HT/VHT20,	M0	62.1	74.0	11.9
5510	HT/VHT40, M0 to M15	M0	61.9	74.0	12.1
5530	VHT80, M0.1 to M9.3	M0x1	60.4	74.0	13.6
5540	HT/VHT20, M0 to M15	M0	63.8	74.0	10.2
5550	HT/VHT40, M0 to M15	M0	62.9	74.0	11.1
5670	HT/VHT20, M0 to M15	M0	60.9	74.0	13.1
5700	HT/VHT20, M0 to M15	M0	61.6	74.0	12.4

B.1.P.1 Radiated Transmitter Spurs, 5500 MHz, HT/VHT20, M0 to M15, Peak (1-18GHz)**B.1.P.2 Radiated Transmitter Spurs, 5510 MHz, HT/VHT40, M0 to M15, Peak (1-18GHz)**

B.1.P.3 Radiated Transmitter Spurs, 5530 MHz, VHT80, M0.1 to M9.3, Peak (1-18GHz)**B.1.P.4 Radiated Transmitter Spurs, 5550 MHz, HT/VHT40, M0 to M15, Peak (1-18GHz)**

B.1.P.5 Radiated Transmitter Spurs, 5540 MHz, HT/VHT20, M0 to M15, Peak (1-18GHz)**B.1.P.6 Radiated Transmitter Spurs, 5670 MHz, HT/VHT40, M0 to M15, M0.0 to M9.4, Peak (1-18GHz)**

B.1.P.7 Radiated Transmitter Spurs, 5700 MHz, HT/VHT20, M0 to M15, Peak (1-18GHz)

B.1.P.8 Radiated Transmitter Spurs, All rate, All modes, Peak (18-26.5GHz)**B.1.P.9 Radiated Transmitter Spurs, All rate, All modes, Peak (26.5-40GHz)**

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

B.2 Receiver Spurious Emissions

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

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

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

Ref. RSS-Gen section 8.9 & 8.10

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

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

Span:	1GHz – 18 GHz
Reference Level:	80 dBuV
Attenuation:	10 dB
Sweep Time:	Coupled
Resolution Bandwidth:	1MHz
Video Bandwidth:	3MHz for Peak, 1 kHz for average
Detector:	Peak

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

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

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

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

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

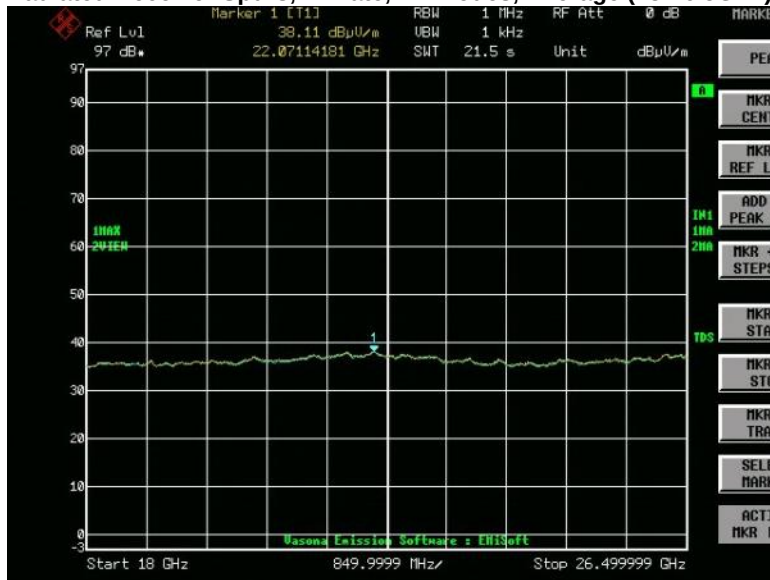
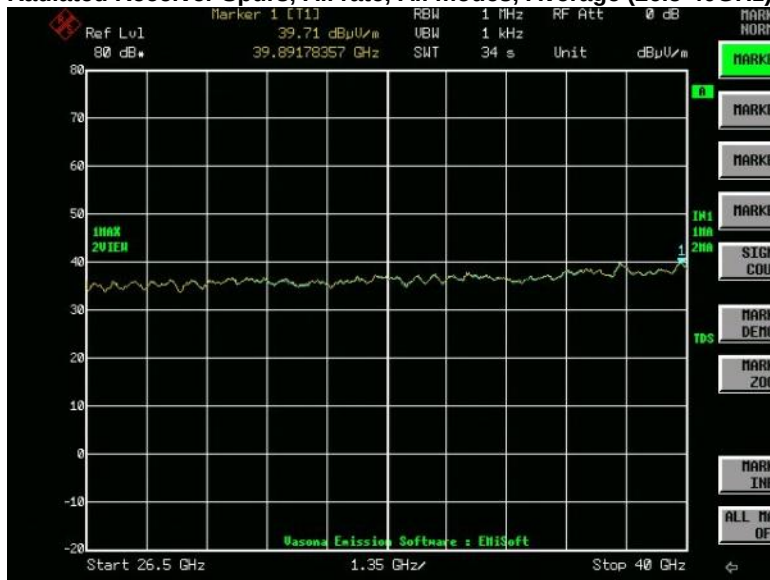
Tested By : Jose Aguirre	Date of testing: 21-Jan-17 - 06-Feb-17
Test Result : PASS	

See Appendix C for list of test equipment

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

Average Radiated Receiver Spurs, All Rates, All Modes, (1-18GHz)

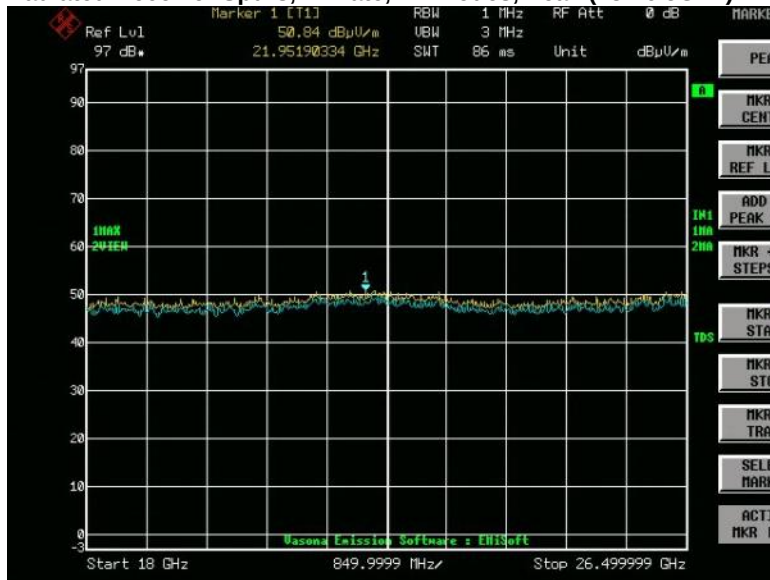
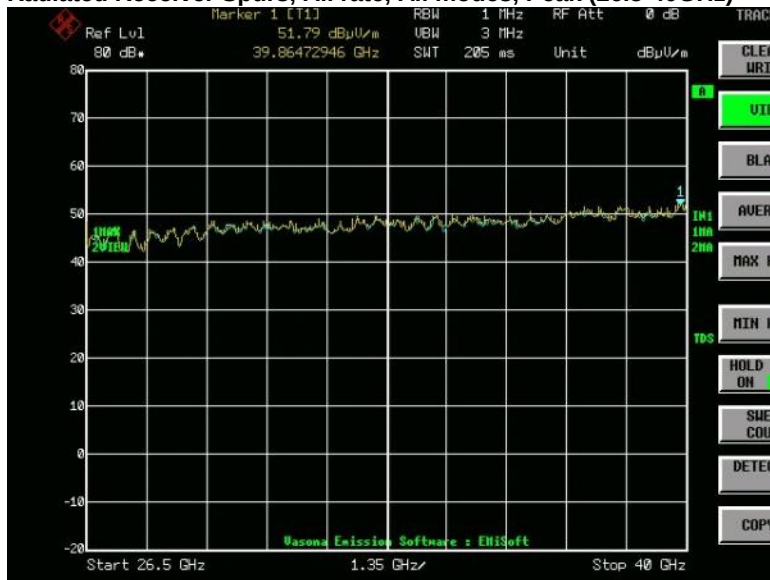


Radiated Receiver Spurs, All rate, All modes, Average (18-26.5GHz)**Radiated Receiver Spurs, All rate, All modes, Average (26.5-40GHz)**

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

Peak Radiated Receiver Spurs, All Rates, All Modes, (1-18GHz)



Radiated Receiver Spurs, All rate, All modes, Peak (18-26.5GHz)**Radiated Receiver Spurs, All rate, All modes, Peak (26.5-40GHz)**

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

B.3 Radiated Emissions 30MHz to 1GHz

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

Ref. ANSI C63.10: 2013 section 6.5

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

Span:	30MHz – 1GHz
Reference Level:	80 dBuV
Attenuation:	10 dB
Sweep Time:	Coupled
Resolution Bandwidth:	100kHz
Video Bandwidth:	300kHz
Detector:	Peak for Pre-scan, Quasi-Peak

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

Terminate the access Point RF ports with 50 ohm loads.

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

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

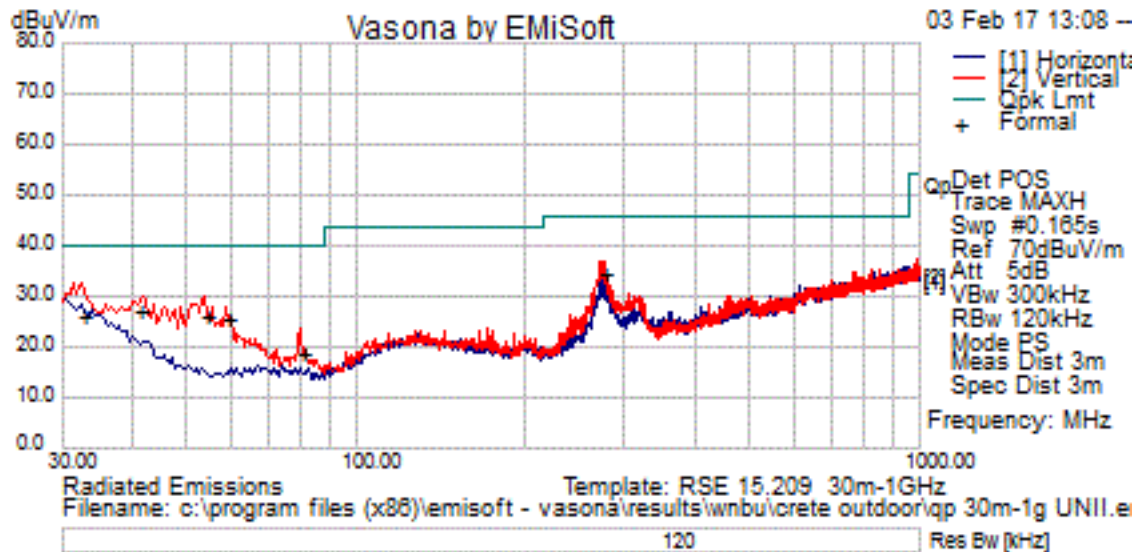
System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	☒	☐
	Support	S02	☐	☒

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

See Appendix C for list of test equipment

Graphical Test Results

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



Test Results

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

B.4 AC Conducted Emissions

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

Measurement Procedure

Accordance with ANSI C63.10:2013 section 6.2

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

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

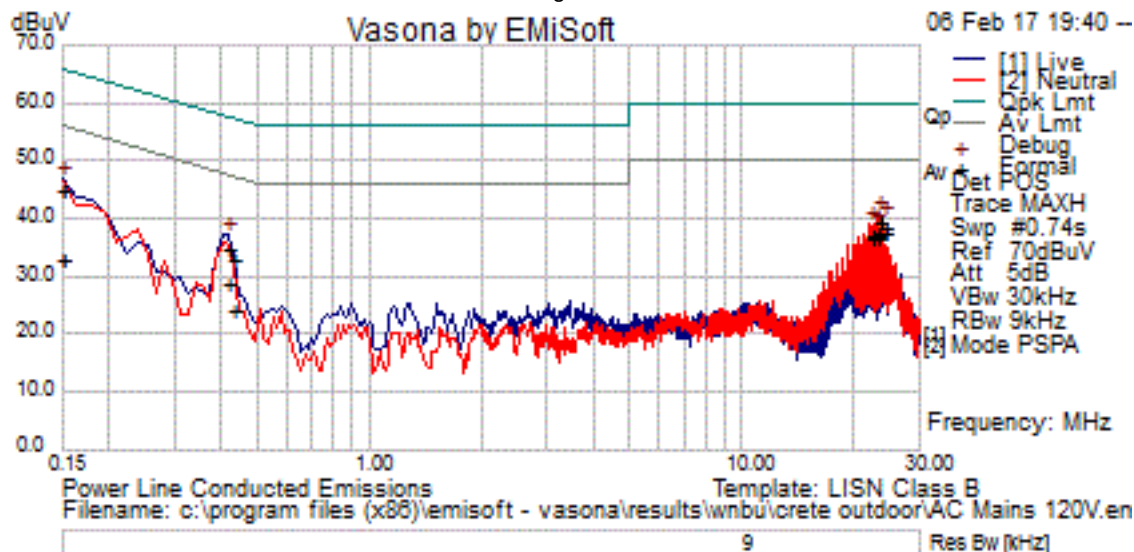
System Number	Description	Samples	System under test	Support equipment
1	EUT	S01	☒	☐
	Support	S02	☐	☒

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

See separate EMC test report for test data.

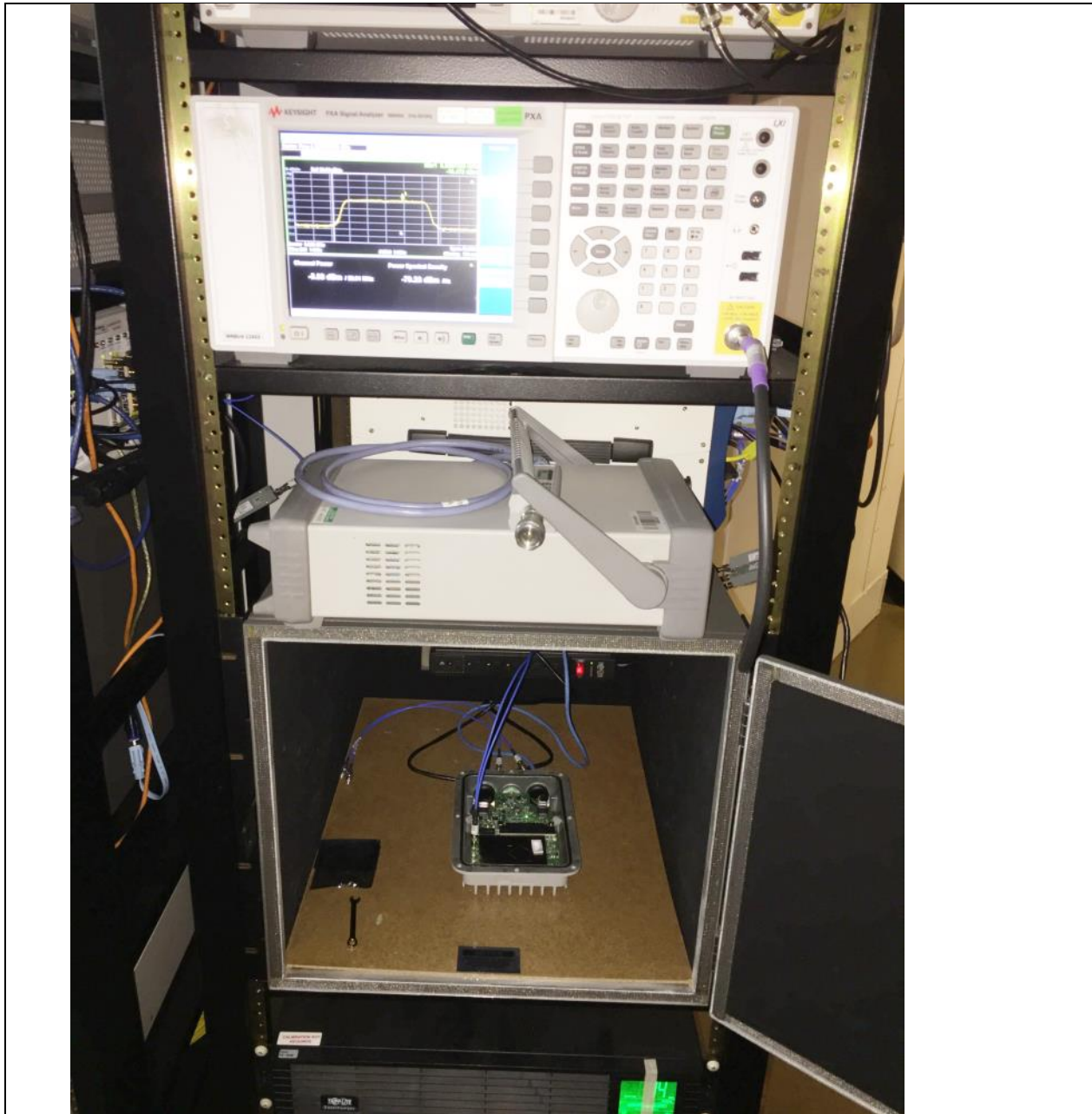
Graphical Test Results

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



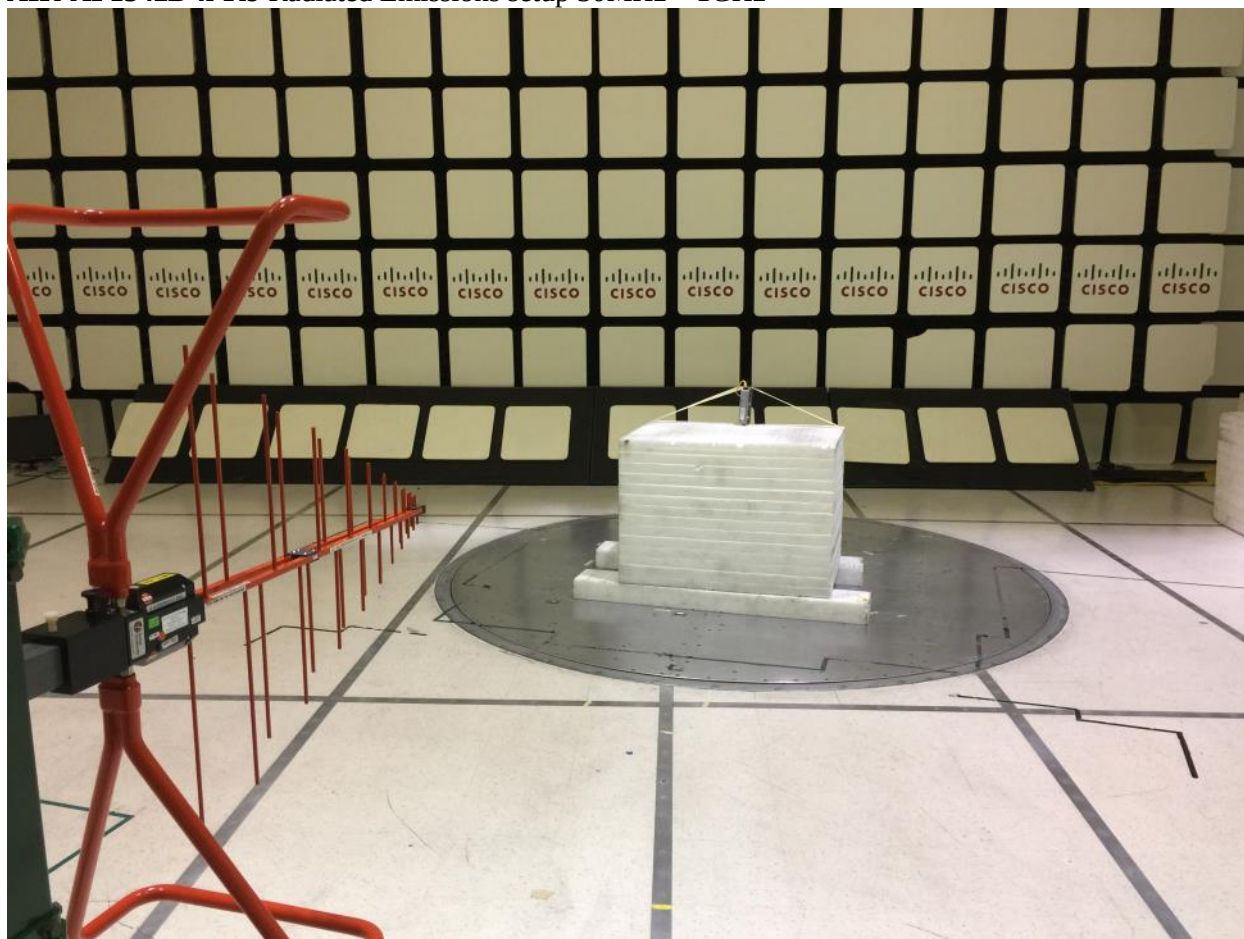
Test Results

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

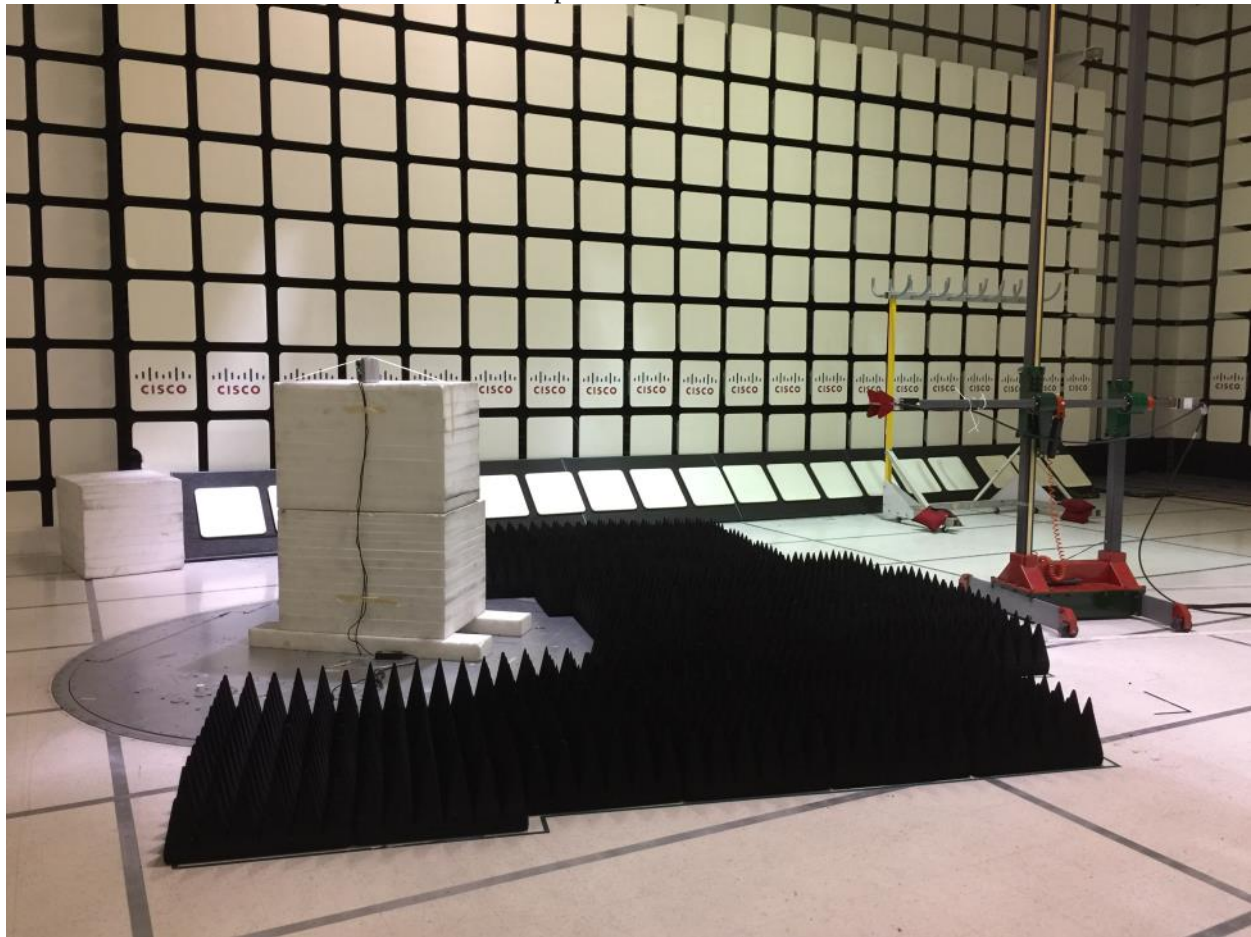
Photographs of setup**Title: Conducted Test Setup**

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

AIR-AP1542D-x-K9 Radiated Emissions setup 30MHz – 1GHz



AIR-AP1542D-x-K9 Radiated Emissions setup above 1GHz



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

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

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

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

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

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	H	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	μA	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)
P	Power Line	L	Live Line
N	Neutral Line	R	Return
S	Supply	AC	Alternating Current

End