



Test Report

AIR-CAP3702y-A-K9 AIR-SAP3702y-A-K9

Cisco Aironet 802.11ac Dual Band Access Points

**FCC ID: LDK102087
IC: 2461B-102087**

Also covers:

AIR-CAP3702y-D-K9, AIR-SAP3702y-D-K9

AIR-CAP3702y-N-K9, AIR-SAP3702y-N-K9

AIR-CAP3702y-T-K9, AIR-SAP3702y-T-K9

AIR-CAP3702y-Z-K9, AIR-SAP3702y-Z-K9

y = E (External Antenna) or I (Internal Antenna)

5725-5850 MHz

Against the following Specifications:

CFR47 Part 15.247

RSS210

Cisco Systems

170 West Tasman Drive
San Jose, CA 95134



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Section 1: Overview

1.1 Test Summary

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

Emission	Immunity
CFR47 Part 15.247 RSS210	N/A

The specifications listed above represent actual tests performed to demonstrate compliance against the specifications and basic standards listed on the front cover of this report. This list is not a one to one match to the front cover for one or more of the following reasons.

1. Basic standards call up many different test phenomena specifications such as the 61000-4-X series. The basic standards define which elements and levels shall be applied from these specifications and as such it is not appropriate to list the individual specifications on the front cover.
2. A Standard listed on the front cover may be required in a particular country but is not appropriate for the particular technologies included in the equipment under test. E.g. You cannot test a DC product to the mains Harmonics requirements in EN61000-3-2. See section 3.2.
3. Test results against a particular standard or specification may be included in a different test report. See section 3.2 for an EDCS reference of this data.
4. Where appropriate, Cisco may have substituted a later revision of a basic standard to those referenced in the specification on the front sheet of this test report. This decision was based upon improved test methodology and repeatability and/or where the newer revision represented a more stringent test.
5. Where relevant, testing has been carried out to the requirements of both EN and IEC Specifications. This was possible because of the similarities of the test methods involved and the Cisco EMC test procedures.
6. Testing may have been performed to an equivalent test that satisfies the requirements of the standards and specifications listed on the front cover of the report. See section 3.2.
7. Where radiated emissions testing has been performed to EN55022/CISPR22 the additional requirements of VCCI: V- 3/2006.04, EN55022: 1994 +A1/2 and CAN/CSA- CISPR 22-02 have also been evaluated unless otherwise stated.
8. Testing to the requirements of CFR47 Part 15 was performed against the CISPR22 limits. The results are therefore deemed satisfactory evidence of compliance with Industry Canada Interference Causing Equipment Standard ICES-003.
9. Where assessment has been performed to CISPR24, all the applicable test requirements may have not been covered. Refer to the results section for the tests performed.

Notes:

- 1) Where a specification listed on the front cover of this report has deviations from the basic standards listed above, the additional technical requirements of the specification were also assessed.
- 2) Where appropriate, Cisco may have substituted a later revision of a basic standard to those referenced in the specification on the front sheet of this test report. This decision was based upon improved test methodology and repeatability and/or where the newer revision represented a more stringent test.
- 3) Where relevant, testing has been carried out to the requirements of both EN and IEC Specifications. This was possible because of the similarities of the test methods involved and the Cisco EMC test procedures.



Section 2: Assessment Information

2.1 General

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

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

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

Temperature	15°C to 35°C (54°F to 95°F)
Atmospheric Pressure	860mbar to 1060mbar (25.4" to 31.3")
Humidity	10% to 75*%

*[Where applicable] For ESD testing the humidity limits used were 30% to 60% and for EFT/B tests the humidity limits used were 25% to 75%.
- e) All AC testing was performed at one or more of the following supply voltages:

110V 60 Hz (+/-20%)
220V 50 Hz (+/-20%)

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2.2 Date of testing

18-February-2013 – 08-March-2013

2.3 Report Issue Date

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.,	Cisco Systems, Inc.
4125 Highlander Parkway	170 West Tasman Drive
Richfield, OH 44286	San Jose, CA 95134
USA	USA

Test Engineers

James Nicholson

2.5 Equipment Assessed (EUT)

AIR-SAP3702E-A-K9 Cisco Aironet 802.11ac Dual Band Access Point



2.6 EUT Description

The 3700 Series Cisco Aironet 802.11ac Dual Band Access Points support the following modes of operation. The modes are further defined in the radio Theory of Operation. The modes included in this report represent the worst case data for all modes.

Non HT/VHT-20, One Antenna, 6 to 54 Mbps
Non HT/VHT-20, Two Antennas, 6 to 54 Mbps
Non HT/VHT-20, Three Antennas, 6 to 54 Mbps
Non HT/VHT-20, Four Antennas, 6 to 54 Mbps

Non HT/VHT-20 Beam Forming, Two Antennas, 6 to 54 Mbps
Non HT/VHT-20 Beam Forming, Three Antennas, 6 to 54 Mbps
Non HT/VHT-20 Beam Forming, Four Antennas, 6 to 54 Mbps

HT/VHT-20, One Antenna, M0 to M7, m0.1 to m9.1
HT/VHT-20, Two Antennas, M0 to M15, m0.1 to m9.2
HT/VHT-20, Three Antennas, M0 to M23, m0.1 to m9.3
HT/VHT-20, Four Antennas, M0 to M23, m0.1 to m9.3

HT/VHT-20 STBC, Two Antennas, M0 to M7, m0.1 to m9.1
HT/VHT-20 STBC, Three Antennas, M0 to M7, m0.1 to m9.1
HT/VHT-20 STBC, Four Antennas, M0 to M7, m0.1 to m9.1

HT/VHT-20 Beam Forming, Two Antennas, M0 to M15, m0.1 to m9.2
HT/VHT-20 Beam Forming, Three Antennas, M0 to M23, m0.1 to m9.3
HT/VHT-20 Beam Forming, Four Antennas, M0 to M23, m0.1 to m9.3

Non HT/VHT-40 Duplicate, One Antenna, 6-54 Mbps
Non HT/VHT-40 Duplicate, Two Antennas, 6-54 Mbps
Non HT/VHT-40 Duplicate, Three Antennas, 6-54 Mbps
Non HT/VHT-40 Duplicate, Four Antennas, 6-54 Mbps

HT/VHT-40, One Antenna, M0 to M7, m0.1 to m9.1
HT/VHT-40, Two Antennas, M0 to M15, m0.1 to m9.2
HT/VHT-40, Three Antennas, M0 to M23, m0.1 to m9.3
HT/VHT-40, Four Antennas, M0 to M23, m0.1 to m9.3

HT/VHT-40 STBC, Two Antennas, M0 to M7, m0.1 to m9.1
HT/VHT-40 STBC, Three Antennas, M0 to M7, m0.1 to m9.1
HT/VHT-40 STBC, Four Antennas, M0 to M7, m0.1 to m9.1

HT/VHT-40 Beam Forming, Two Antennas, M0 to M15, m0.1 to m9.2
HT/VHT-40 Beam Forming, Three Antennas, M0 to M23, m0.1 to m9.3
HT/VHT-40 Beam Forming, Four Antennas, M0 to M23, m0.1 to m9.3



Non VHT-80 Duplicate, One Antenna, 6-54 Mbps
 Non VHT-80 Duplicate, Two Antennas, 6-54 Mbps
 Non VHT-80 Duplicate, Three Antennas, 6-54 Mbps
 Non VHT-80 Duplicate, Four Antennas, 6-54 Mbps

VHT-80, One Antenna, M0 to M7, m0.1 to m9.1
 VHT-80, Two Antennas, M0 to M15, m0.1 to m9.2
 VHT-80, Three Antennas, M0 to M23, m0.1 to m9.3
 VHT-80, Four Antennas, M0 to M23, m0.1 to m9.3

VHT-80 STBC, Two Antennas, M0 to M7, m0.1 to m9.1
 VHT-80 STBC, Three Antennas, M0 to M7, m0.1 to m9.1
 VHT-80 STBC, Four Antennas, M0 to M7, m0.1 to m9.1

VHT-80 Beam Forming, Two Antennas, M0 to M15, m0.1 to m9.2
 VHT-80 Beam Forming, Three Antennas, M0 to M23, m0.1 to m9.3
 VHT-80 Beam Forming, Four Antennas, M0 to M23, m0.1 to m9.3

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	AIR-ANT2524DB-R	Dual-resonant black dipole	2 / 4
	AIR-ANT2524DW-R	Dual-resonant white dipole	2 / 4
	AIR-ANT2524DG-R	Dual-resonant gray dipole	2 / 4
	AIR-ANT2524V4C-R	Dual-resonant ceiling mount omni (4-pack)	2 / 4
	AIR-ANT2535SDW-R	Dual-resonant "stubby" monopole	3 / 5
	Internal	Omni	4 / 4
	AIR-ANT2544V4M-R	Dual-resonant omni (4-pack)	4 / 4
	AIR-ANT2566P4W-R	Dual-resonant "directional" antenna (4-pack)	6 / 6



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. Please also refer to the "Justification for worst Case test Configuration" section of this report for further details on the selection of EUT samples.

4.1 Sample Details (Photographs of the test samples, where appropriate can be found in appendix H)

Sample No.	Equipment Details	Part Number	Manufacturer	Hardware Rev.	Firmware Rev.	Software Rev.	Serial Number
S01	AIR-SAP3702E-A-K9		Cisco Systems	NA	NA	NA	
S02	AIR-PWR-B	341-0306-01	Cisco Systems	NA	NA	NA	

4.2 System Details

System #	Description	Samples
1	EUT	S01, S02

4.3 Mode of Operation Details

Mode#	Description	Comments
1	Continuous Transmitting	Continuous Transmitting

All tests in this report were performed as described in FCC KDB 662911 D01

Appendix A: Emission Test Results**Testing Laboratory:** Cisco Systems, Inc., 4125 Highlander Parkway, Richfield, OH, USA**Target Maximum Channel Power**

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

Operating Mode	Maximum Channel Power (dBm)		
	Frequency (MHz)		
	5745	5785	5825
Non HT-20, 6 to 54 Mbps	22	22	22
Non HT-20 Beam Forming, 6 to 54 Mbps	22	22	22
HT-20, M0 to M23, M0.1 to M9.3	22	22	22
HT-20 STBC, M0 to M7, M0.1 to M9.1	22	22	22
HT-20 Beam Forming, M0 to M23, M0.1 to M9.3	22	22	22
	5745/5765		5785/5805
Non HT-40 Duplicate, 6 to 54 Mbps	20		23
HT-40, M0 to M23, M0.1 to M9.3	23		22
HT-40 STBC, M0 to M7, M0.1 to M9.1	23		22
HT-40 Beam Forming, M0 to M23, M0.1 to M9.3	23		22
	5745/5765/5785/5805		
Non HT-80 Duplicate, 6 to 54 Mbps	19		
HT-80, M0 to M23, M0.1 to M9.3	21		
HT-80 STBC, M0 to M7, M0.1 to M9.1	21		
HT-80 Beam Forming, M0 to M23, M0.1 to M9.3	21		



6dB Bandwidth

15.247: Systems using digital modulation techniques may operate in the 2400-2483.5MHz band. The minimum 6 dB bandwidth shall be at least 500 kHz.

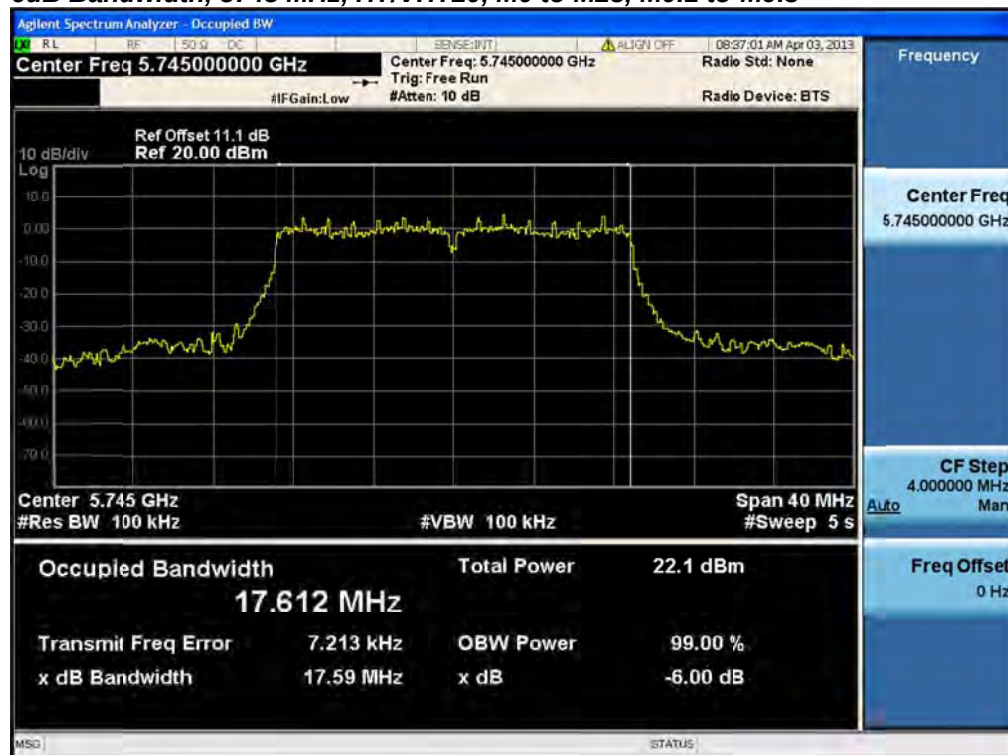
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

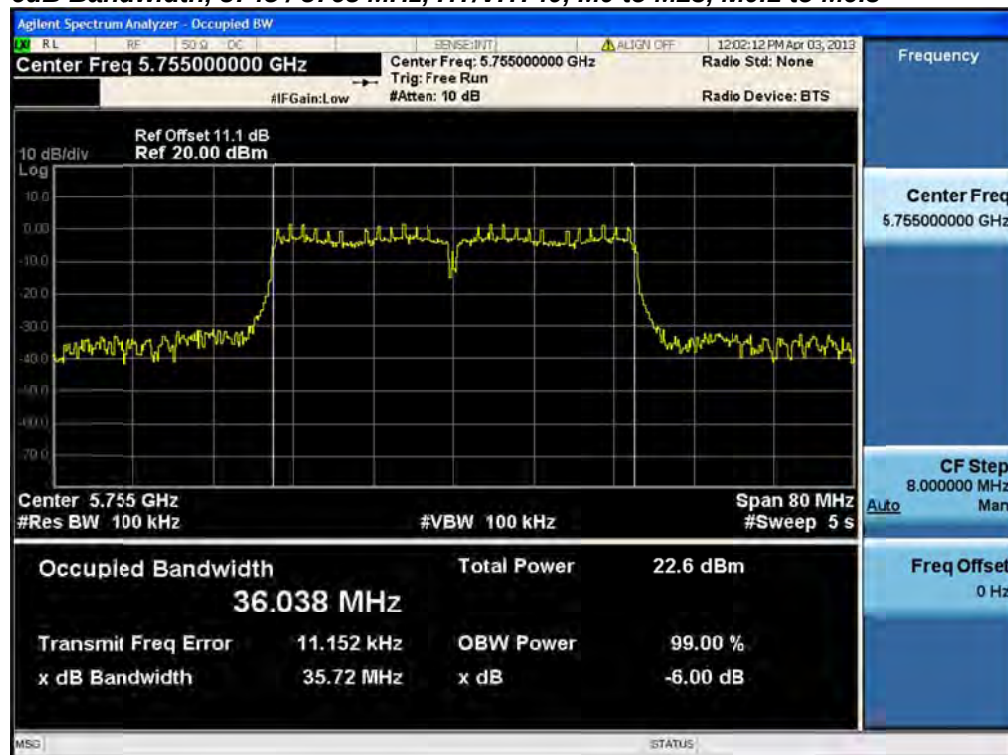
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	100 kHz
Video Bandwidth:	100 kHz
X dB Bandwidth:	6 dB
Detector:	Peak
Trace:	Single

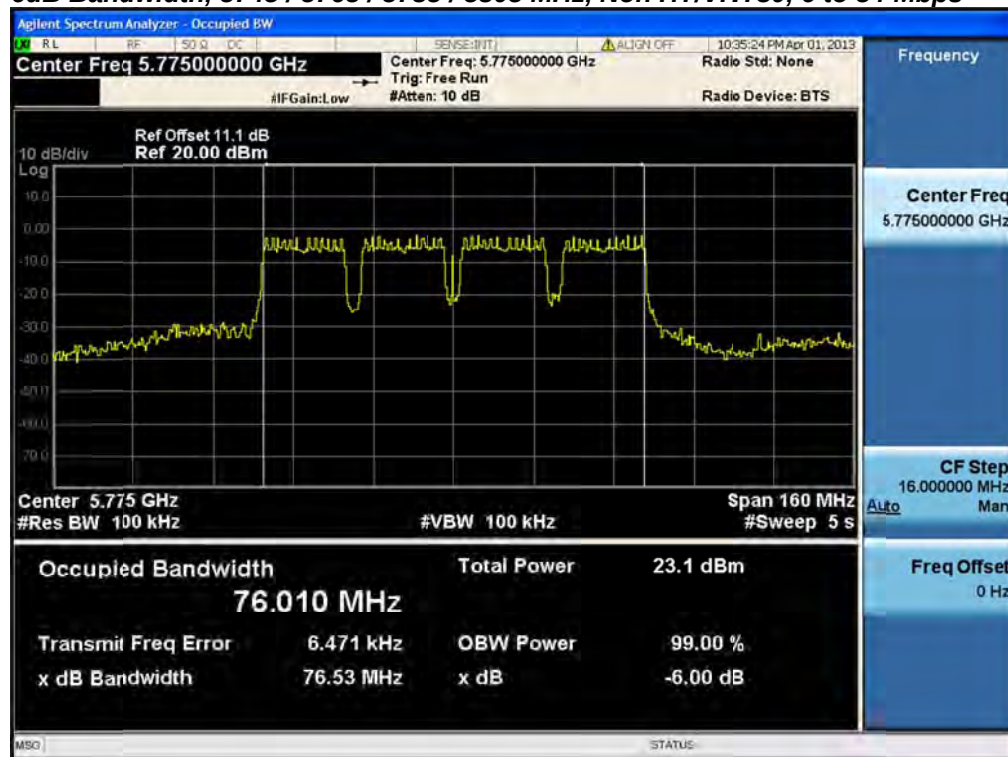
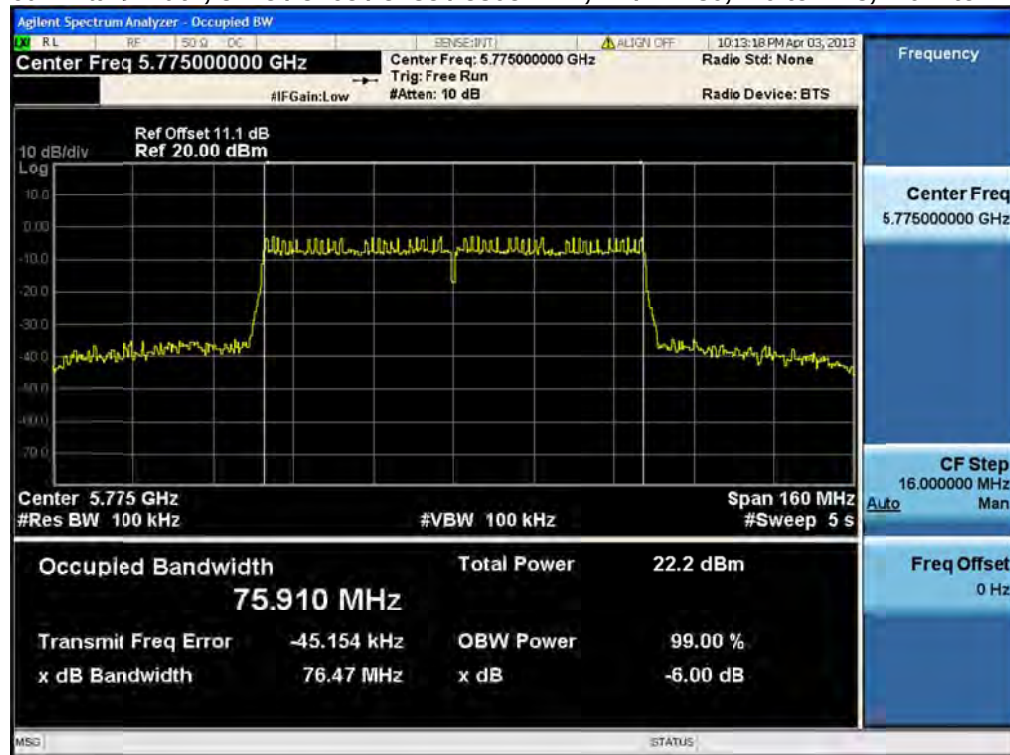
Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:

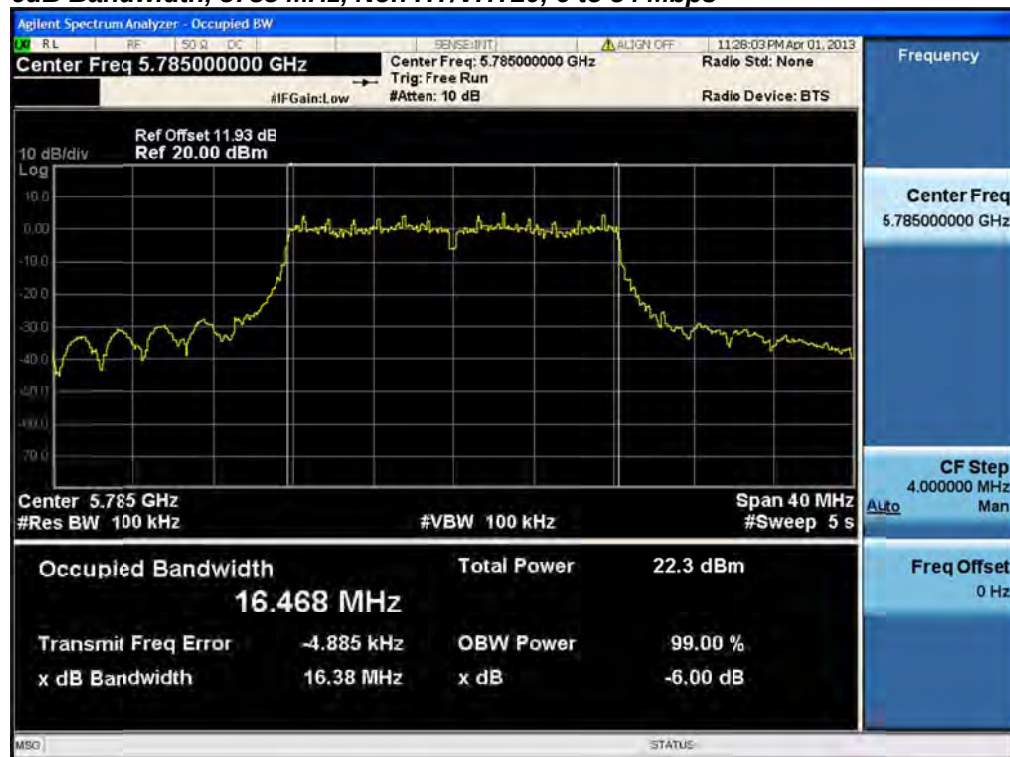
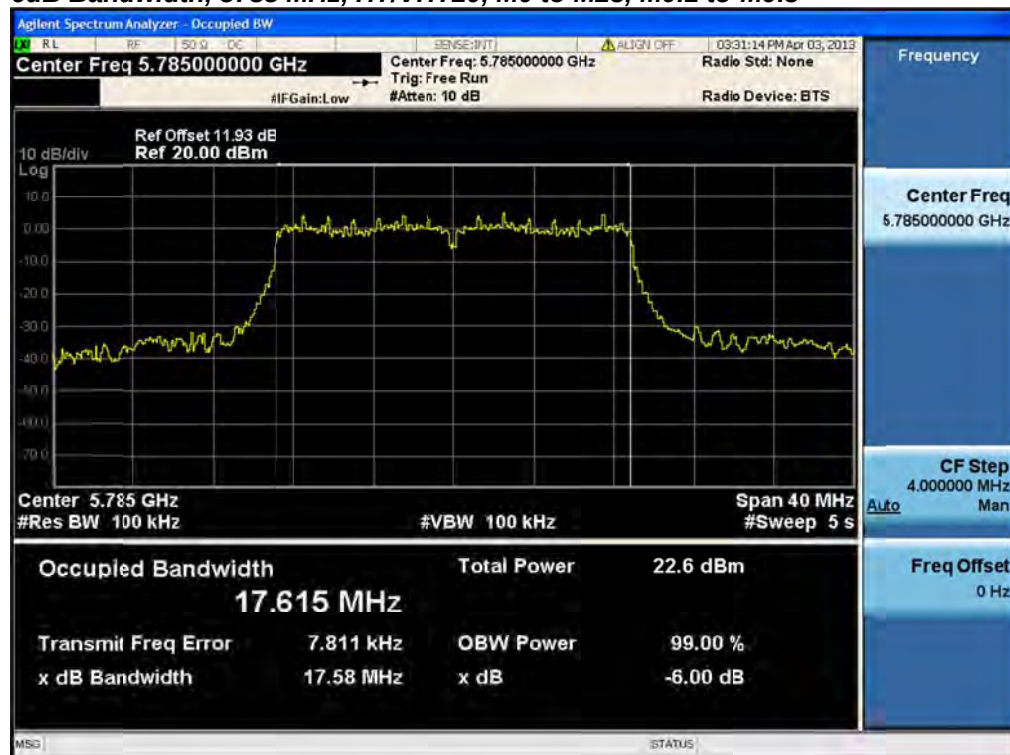


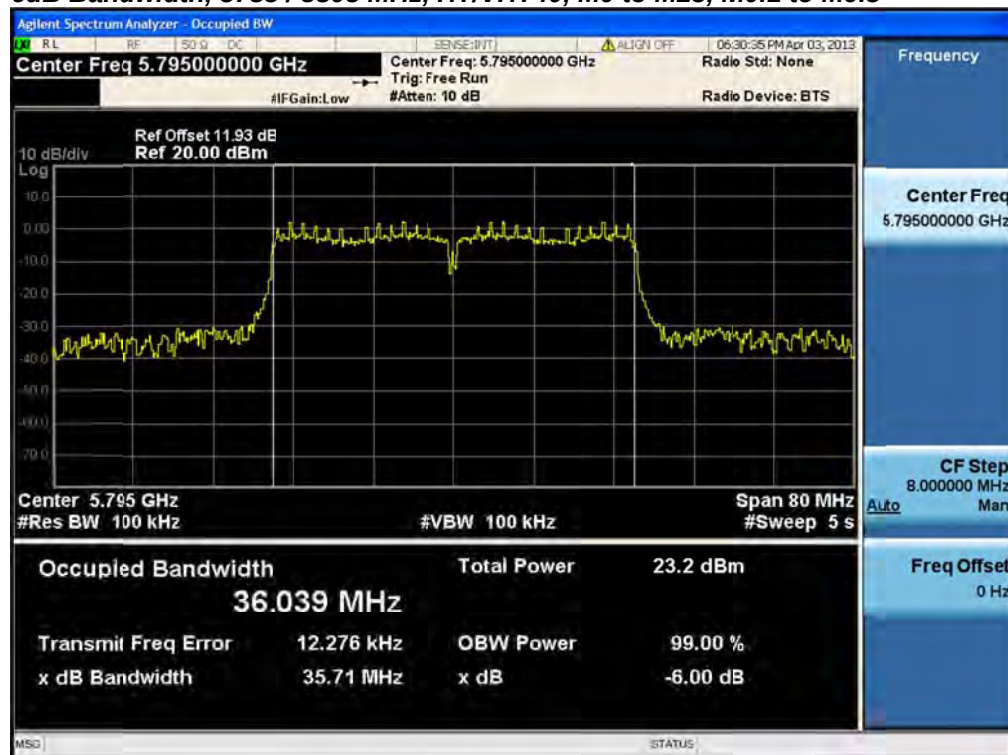
Frequency (MHz)	Mode	Data Rate (Mbps)	6dB BW (MHz)	Limit (kHz)	Margin (MHz)
5745	Non HT/VHT20, 6 to 54 Mbps	6	<u>16.5</u>	>500	16
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>17.6</u>	>500	17.1
5745/5765	Non HT/VHT40, 6 to 54 Mbps	6	<u>36.1</u>	>500	35.6
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>36</u>	>500	35.5
5745/5765 5785/5805	Non HT/VHT80, 6 to 54 Mbps	6	<u>75.9</u>	>500	75.4
	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>75.9</u>	>500	75.4
5785	Non HT/VHT20, 6 to 54 Mbps	6	<u>16.5</u>	>500	16
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>17.6</u>	>500	17.1
5785/5805	Non HT/VHT40, 6 to 54 Mbps	6	<u>36.3</u>	>500	35.8
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>36</u>	>500	35.5
5825	Non HT/VHT20, 6 to 54 Mbps	6	<u>16.5</u>	>500	16
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>17.6</u>	>500	17.1

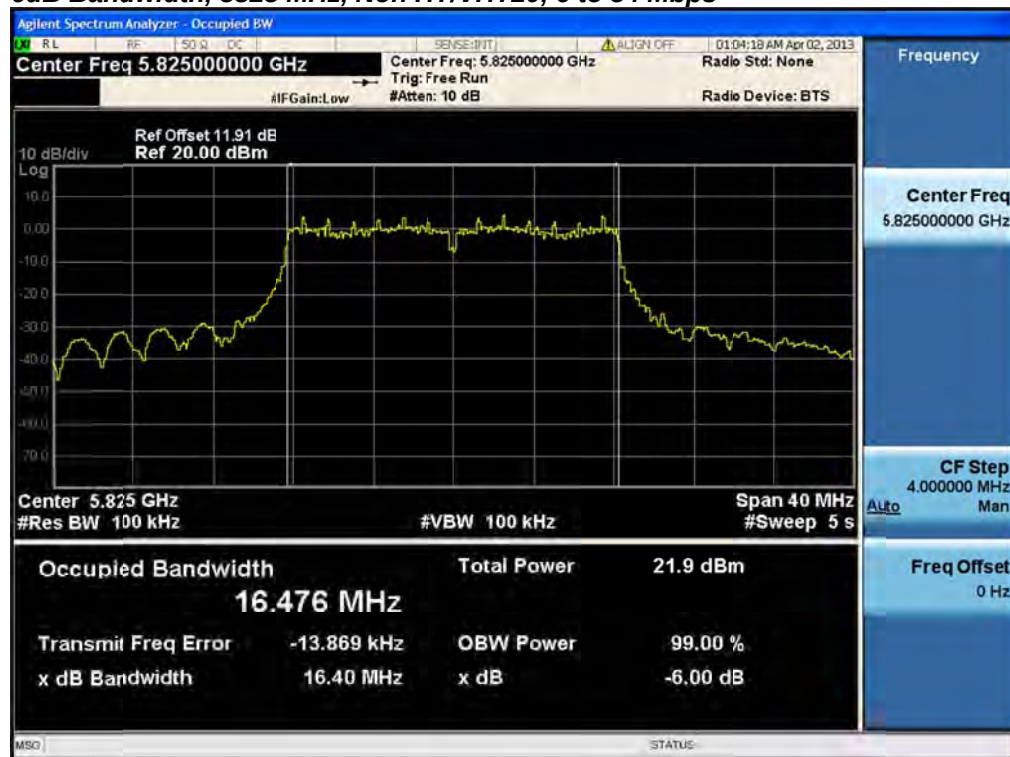
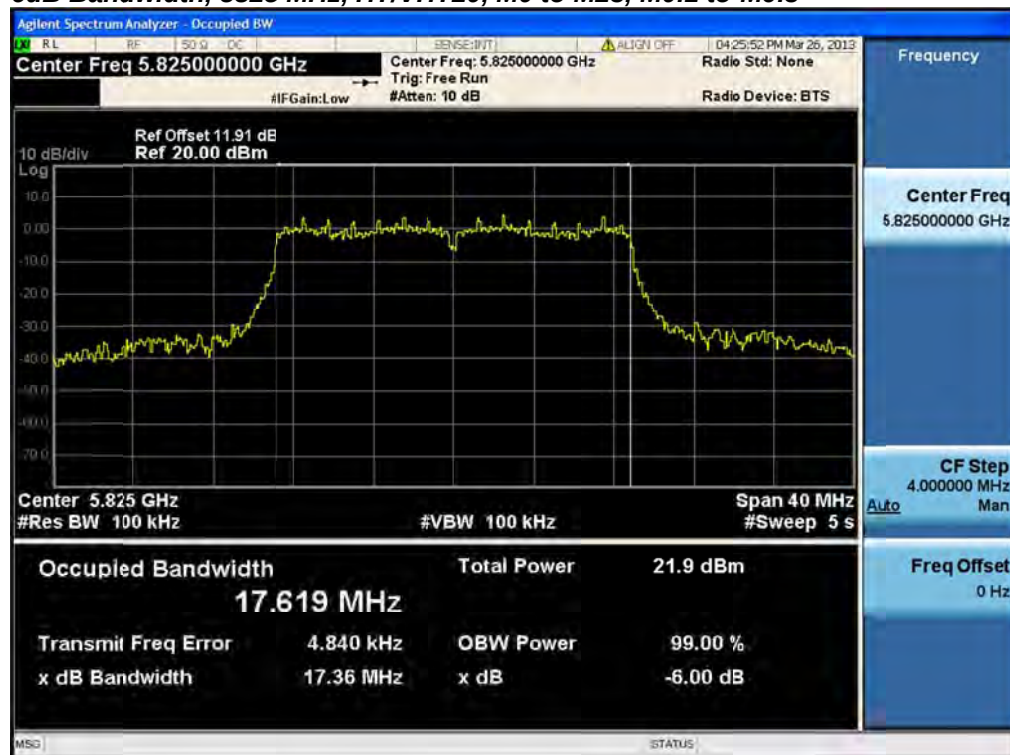
6dB Bandwidth, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**6dB Bandwidth, 5745 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

6dB Bandwidth, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**6dB Bandwidth, 5745 / 5765 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

6dB Bandwidth, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**6dB Bandwidth, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

6dB Bandwidth, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**6dB Bandwidth, 5785 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

6dB Bandwidth, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**6dB Bandwidth, 5785 / 5805 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

6dB Bandwidth, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**6dB Bandwidth, 5825 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



99% and 26dB Bandwidth

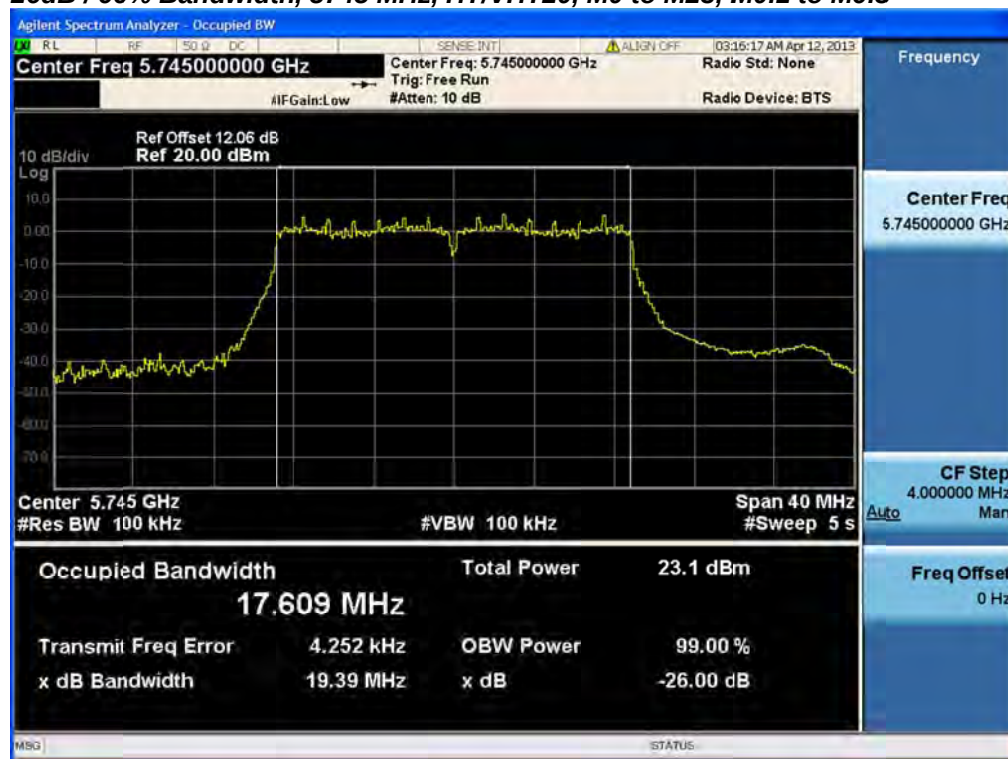
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

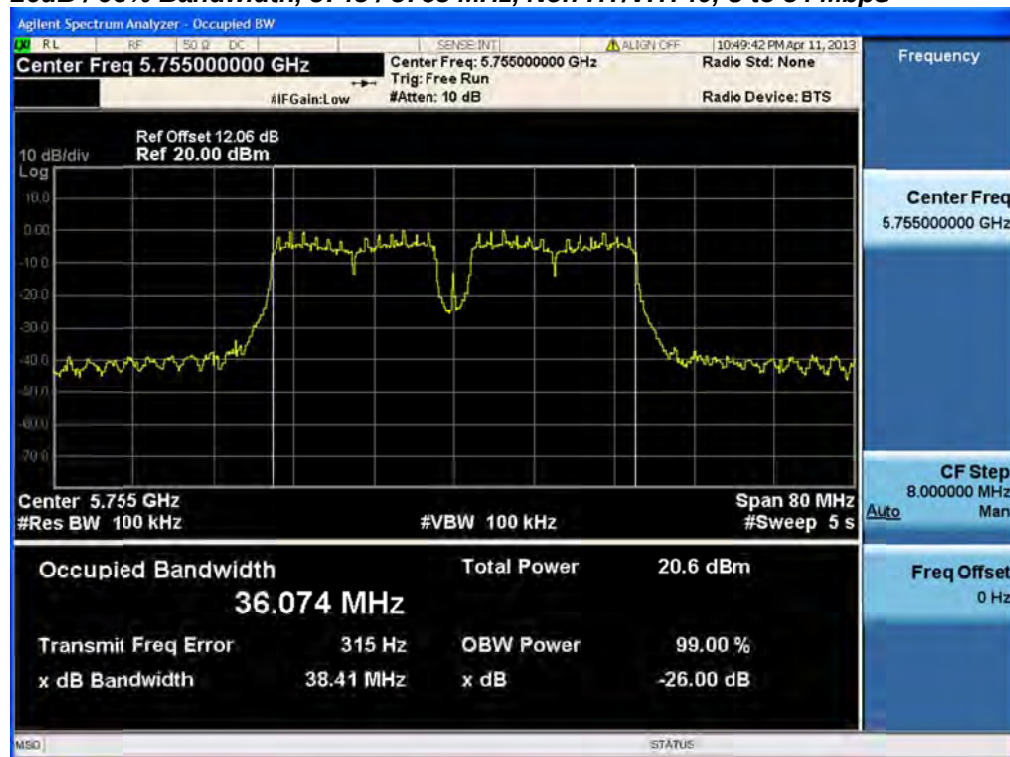
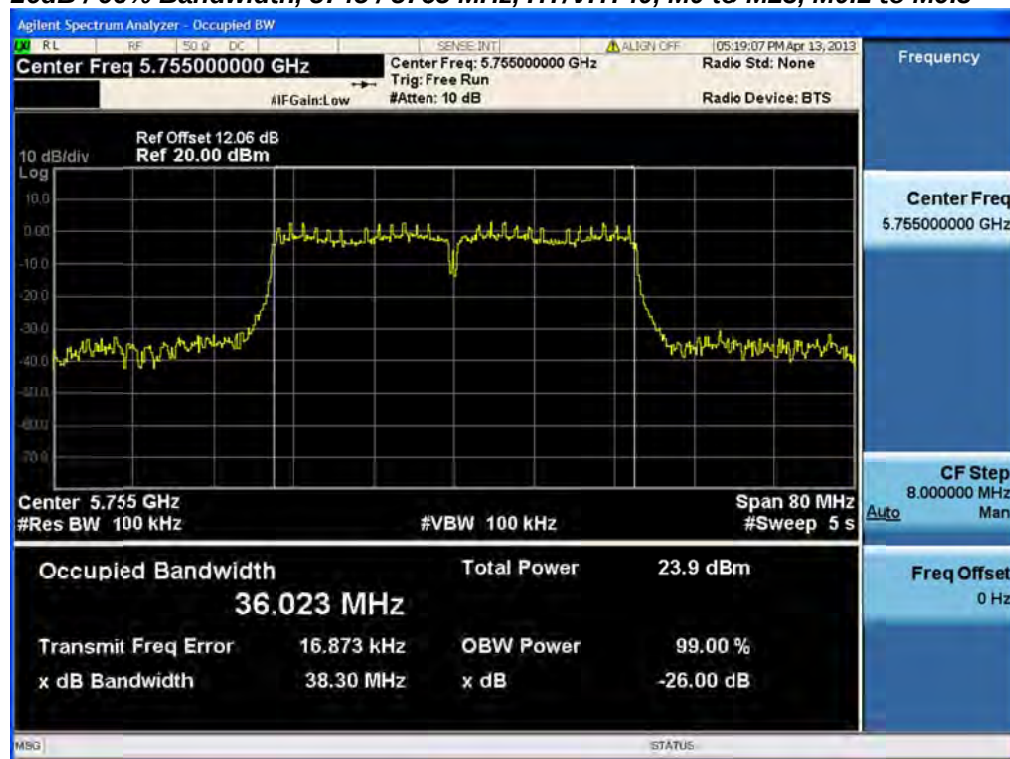
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	1%-3% of 26 dB Bandwidth
Video Bandwidth:	≥Resolution Bandwidth
X dB Bandwidth:	26 dB
Detector:	Peak
Trace:	Single

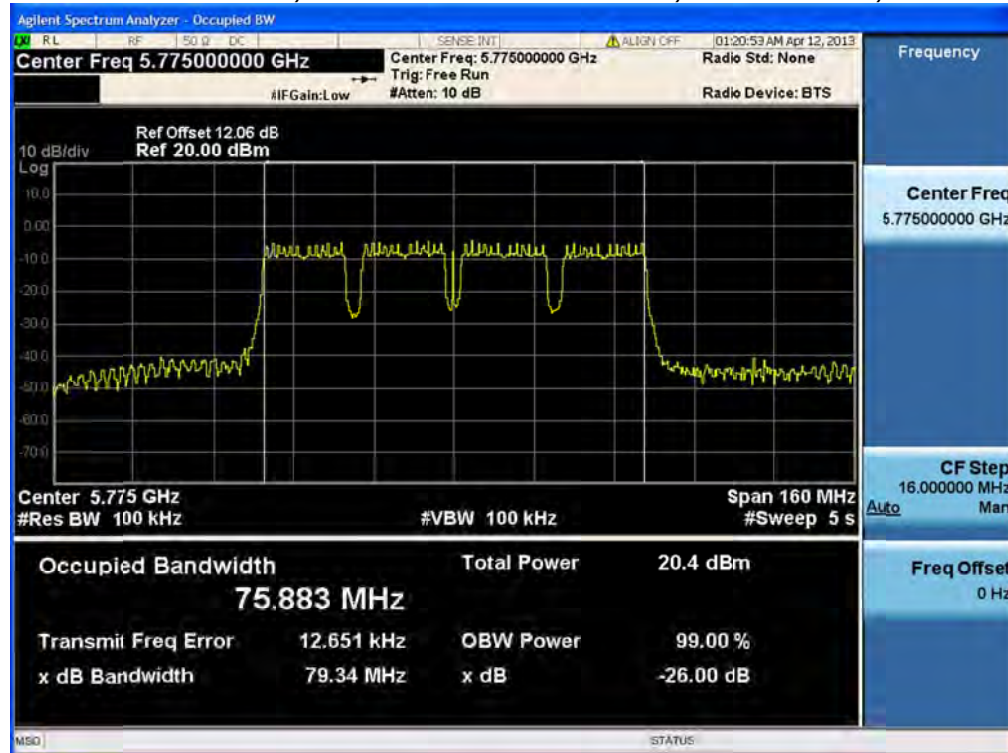
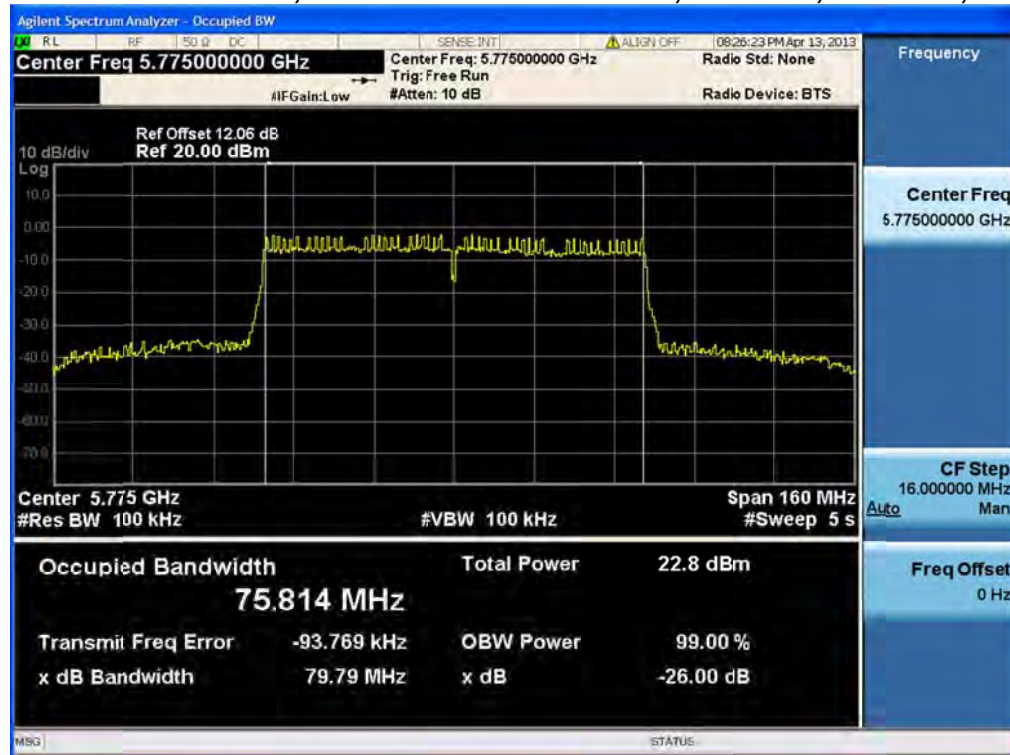
Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:

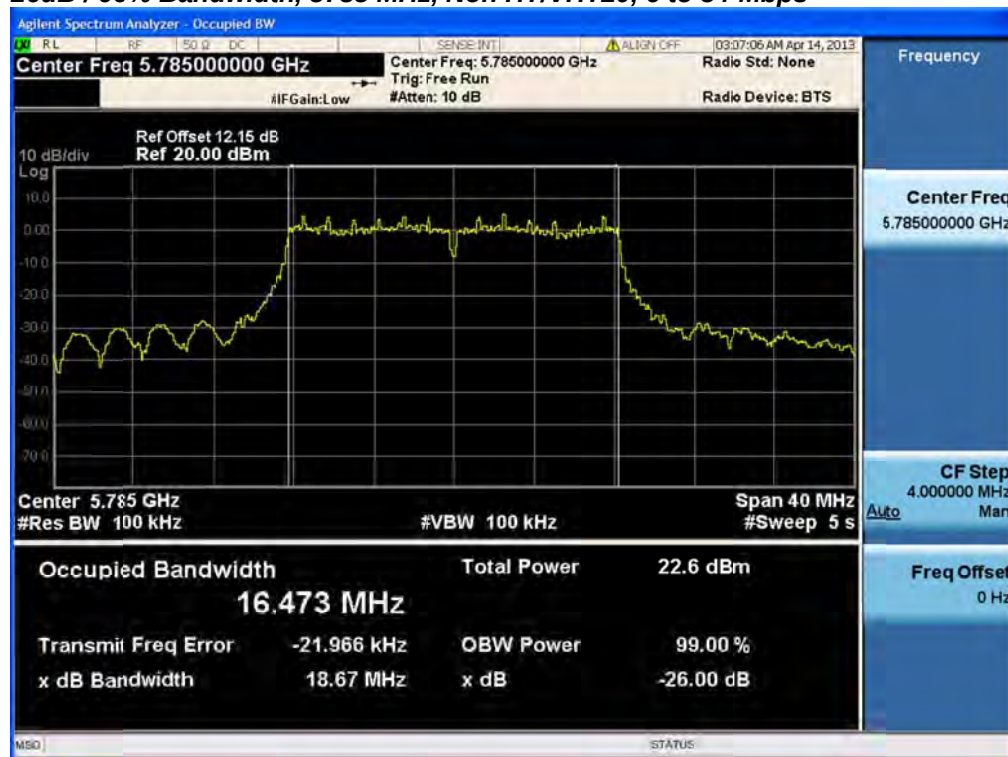


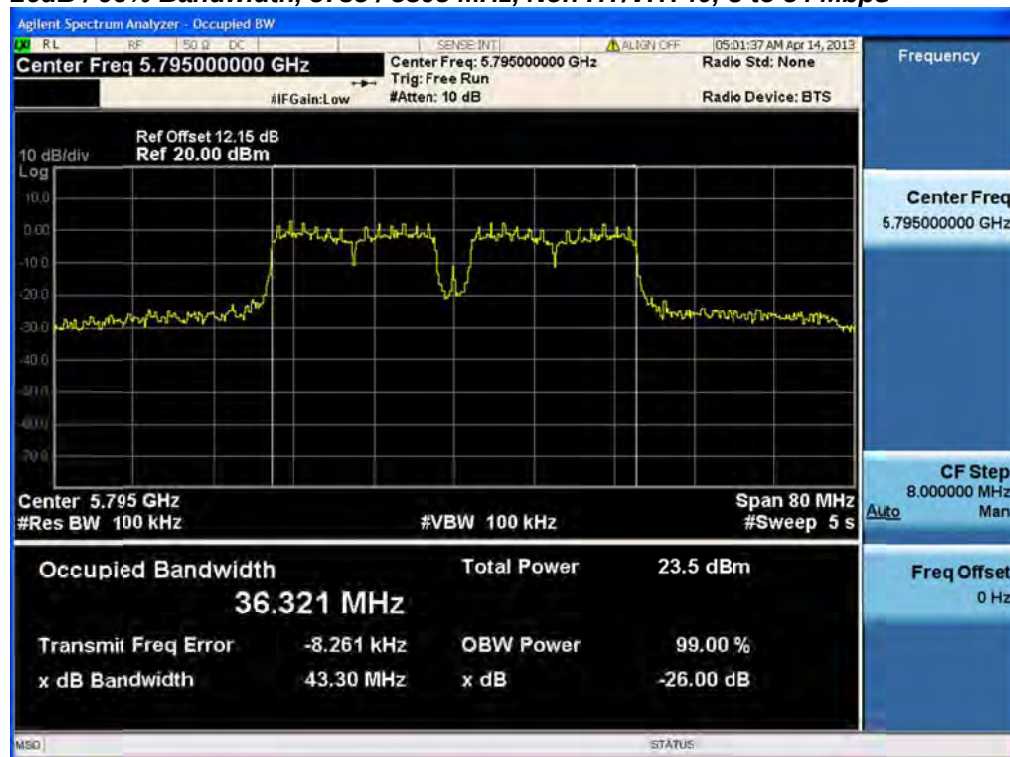
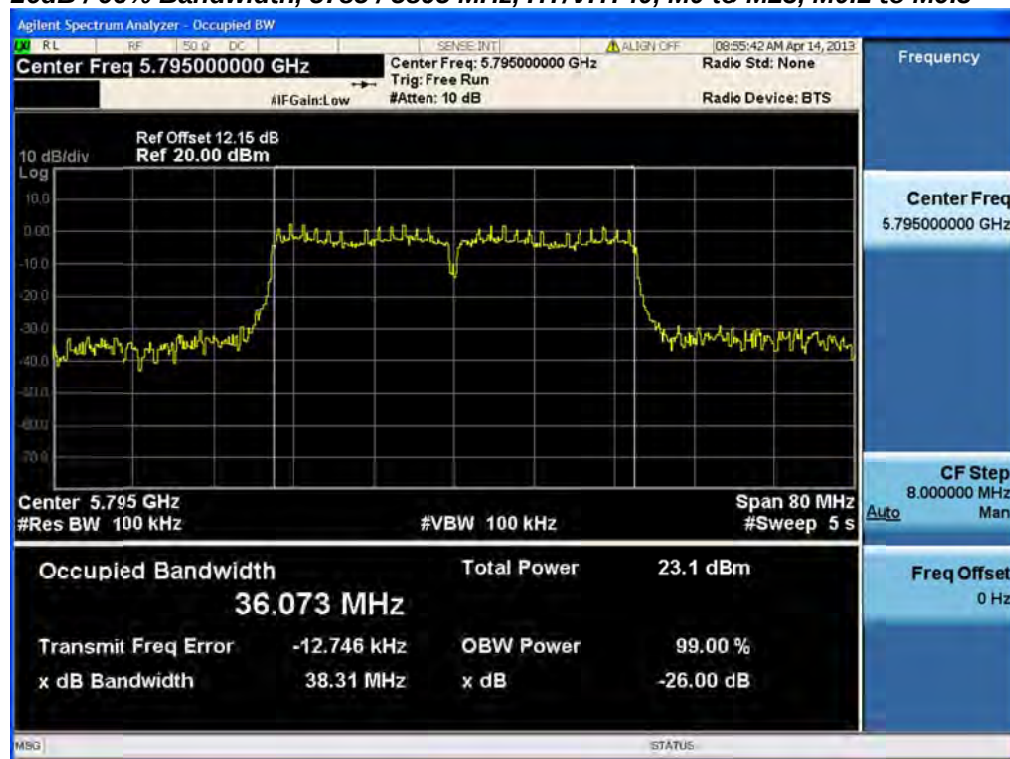
Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5745	Non HT/VHT20, 6 to 54 Mbps	6	<u>18.6</u>	16.5
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>19.4</u>	17.6
5745/5765	Non HT/VHT40, 6 to 54 Mbps	6	<u>38.4</u>	36.1
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>38.3</u>	36
5745/5765 5785/5805	Non HT/VHT80, 6 to 54 Mbps	6	<u>79.3</u>	75.9
	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>79.8</u>	75.8
5785	Non HT/VHT20, 6 to 54 Mbps	6	<u>18.7</u>	16.5
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>19.4</u>	17.6
5785/5805	Non HT/VHT40, 6 to 54 Mbps	6	<u>41.9</u>	36.3
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>38.3</u>	36.1
5825	Non HT/VHT20, 6 to 54 Mbps	6	<u>18.6</u>	16.5
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>19.4</u>	17.6

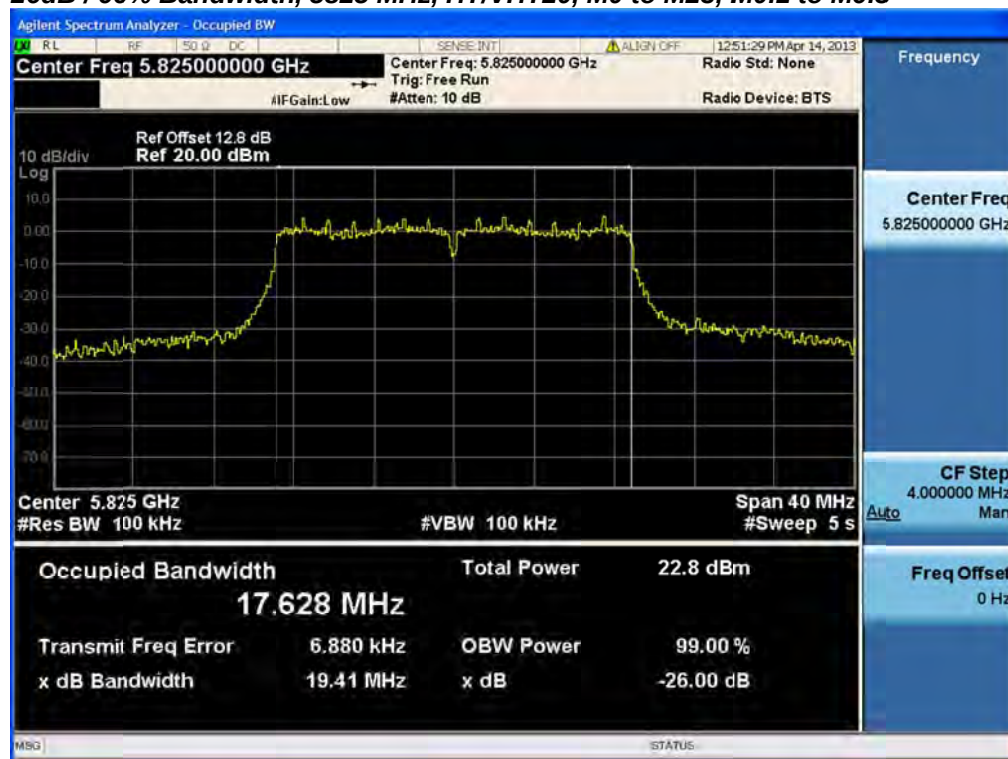
26dB / 99% Bandwidth, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**26dB / 99% Bandwidth, 5745 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**26dB / 99% Bandwidth, 5745 / 5765 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**26dB / 99% Bandwidth, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**26dB / 99% Bandwidth, 5785 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**26dB / 99% Bandwidth, 5785 / 5805 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**26dB / 99% Bandwidth, 5825 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Peak Output Power

15.247: The maximum conducted output power of the intentional radiator for systems using digital modulation in the 5725-5850 MHz band shall not exceed 1 Watt (30dBm). If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below.

Enable "Channel Power" function of analyzer	
Center Frequency:	Frequency from table below
Span:	20 MHz (must be greater than 26dB bandwidth, adjust as necessary)
Ref Level Offset:	Correct for attenuator and cable loss.
Reference Level:	20 dBm
Attenuation:	20 dB
Sweep Time:	100ms, Single sweep
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Sample
Trace:	Trace Average 100 traces in Power Averaging Mode
Integration BW:	=26 dB BW from 26 dB Bandwidth Data

After averaging 100 traces of the transmitter waveform on the spectrum analyzer, record the spectrum analyzer Channel Power.

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.



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 Max Power (dBm)	Tx 2 Max Power (dBm)	Tx 3 Max Power (dBm)	Tx 4 Max Power (dBm)	Total Tx Channel Power (dBm)	Limit (dBm)	Margin (dB)
5745	Non HT/VHT20, 6 to 54 Mbps	1	6	<u>16.4</u>				16.4	30	13.6
	Non HT/VHT20, 6 to 54 Mbps	2	6	<u>16.4</u>	<u>16.7</u>			19.6	30	10.4
	Non HT/VHT20, 6 to 54 Mbps	3	6	<u>16.4</u>	<u>16.7</u>	<u>16.4</u>		21.3	30	8.7
	Non HT/VHT20, 6 to 54 Mbps	4	6	<u>16.4</u>	<u>16.7</u>	<u>16.4</u>	<u>16.3</u>	22.5	30	7.5
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	9	<u>16.4</u>	<u>16.7</u>			19.6	27	7.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	11	<u>16.4</u>	<u>16.7</u>	<u>16.4</u>		21.3	25.2	3.9
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	12	<u>16.4</u>	<u>16.7</u>	<u>16.4</u>	<u>16.3</u>	22.5	24	1.5
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	6	<u>16.1</u>				16.1	30	13.9
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	6	<u>16.1</u>	<u>16.9</u>			19.5	30	10.5
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	6	<u>16.1</u>	<u>16.9</u>			19.5	30	10.5
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	30	8.8
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	30	8.8
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	30	8.8
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	30	7.6
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	30	7.6
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	30	7.6
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>16.1</u>	<u>16.9</u>			19.5	27	7.5
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>16.1</u>	<u>16.9</u>			19.5	30	10.5
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	25.2	4.0
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	28.2	7.0
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	30	8.8
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	24	1.6
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	27	4.6
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	28.8	6.4
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>16.1</u>	<u>16.9</u>			19.5	30	10.5
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>		21.2	30	8.8
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>16.1</u>	<u>16.9</u>	<u>16.3</u>	<u>16.2</u>	22.4	30	7.6



5745/5765	Non HT/VHT40, 6 to 54 Mbps	1	6	<u>15.6</u>				15.6	30	14.4
	Non HT/VHT40, 6 to 54 Mbps	2	6	<u>14.6</u>	<u>15.1</u>			17.9	30	12.1
	Non HT/VHT40, 6 to 54 Mbps	3	6	<u>13.5</u>	<u>13.8</u>	<u>13.4</u>		18.3	30	11.7
	Non HT/VHT40, 6 to 54 Mbps	4	6	<u>13.5</u>	<u>13.8</u>	<u>13.4</u>	<u>13.6</u>	19.6	30	10.4
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	6	<u>16.5</u>				16.5	30	13.5
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	6	<u>16.5</u>	<u>17.1</u>			19.8	30	10.2
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	6	<u>16.5</u>	<u>17.1</u>			19.8	30	10.2
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	30	8.5
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	30	8.5
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	30	8.5
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	30	7.3
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	30	7.3
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	30	7.3
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>16.5</u>	<u>17.1</u>			19.8	27	7.2
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>16.5</u>	<u>17.1</u>			19.8	30	10.2
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	25.2	3.7
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	28.2	6.7
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	30	8.5
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	24	1.3
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	27	4.3
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	28.8	6.1
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>16.5</u>	<u>17.1</u>			19.8	30	10.2
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>		21.5	30	8.5
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>16.5</u>	<u>17.1</u>	<u>16.7</u>	<u>16.5</u>	22.7	30	7.3
5745/5765/5785/5805	Non HT/VHT80, 6 to 54 Mbps	1	6	<u>12.8</u>				12.8	30	17.2
	Non HT/VHT80, 6 to 54 Mbps	2	6	<u>12.8</u>	<u>13.1</u>			16.0	30	14.0
	Non HT/VHT80, 6 to 54 Mbps	3	6	<u>12.8</u>	<u>13.1</u>	<u>12.7</u>		17.6	30	12.4
	Non HT/VHT80, 6 to 54 Mbps	4	6	<u>12.8</u>	<u>13.1</u>	<u>12.7</u>	<u>12.9</u>	18.9	30	11.1
	HT/VHT80, M0 to M7, M0.1 to M9.1	1	6	<u>14.8</u>				14.8	30	15.2
	HT/VHT80, M0 to M7, M0.1 to M9.1	2	6	<u>14.8</u>	<u>15.3</u>			18.1	30	11.9
	HT/VHT80, M8 to M15, M0.2 to M9.2	2	6	<u>14.8</u>	<u>15.3</u>			18.1	30	11.9
	HT/VHT80, M0 to M7, M0.1 to M9.1	3	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	30	10.2
	HT/VHT80, M8 to M15, M0.2 to M9.2	3	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	30	10.2
	HT/VHT80, M16 to M23, M0.3 to M9.3	3	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	30	10.2
	HT/VHT80, M0 to M7, M0.1 to M9.1	4	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	30	8.9
	HT/VHT80, M8 to M15, M0.2 to M9.2	4	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	30	8.9
	HT/VHT80, M16 to M23, M0.3 to M9.3	4	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	30	8.9
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>14.8</u>	<u>15.3</u>			18.1	27	8.9
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>14.8</u>	<u>15.3</u>			18.1	30	11.9
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	25.2	5.4



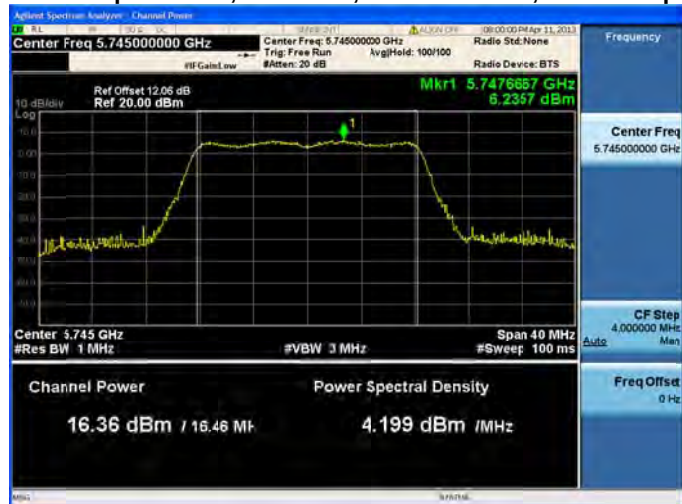
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	28.2	8.4
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	30	10.2
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	24	2.9
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	27	5.9
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	28.8	7.7
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>14.8</u>	<u>15.3</u>			18.1	30	11.9
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>		19.8	30	10.2
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>14.8</u>	<u>15.3</u>	<u>15.0</u>	<u>15.2</u>	21.1	30	8.9
5785	Non HT/VHT20, 6 to 54 Mbps	1	6	<u>15.9</u>				15.9	30	14.1
	Non HT/VHT20, 6 to 54 Mbps	2	6	<u>15.9</u>	<u>16.5</u>			19.2	30	10.8
	Non HT/VHT20, 6 to 54 Mbps	3	6	<u>15.9</u>	<u>16.5</u>	<u>15.9</u>		20.9	30	9.1
	Non HT/VHT20, 6 to 54 Mbps	4	6	<u>15.9</u>	<u>16.5</u>	<u>15.9</u>	<u>15.9</u>	22.1	30	7.9
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	9	<u>15.9</u>	<u>16.5</u>			19.2	27	7.8
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	11	<u>15.9</u>	<u>16.5</u>	<u>15.9</u>		20.9	25.2	4.3
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	12	<u>15.9</u>	<u>16.5</u>	<u>15.9</u>	<u>15.9</u>	22.1	24	1.9
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	6	<u>16.0</u>				16.0	30	14.0
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	6	<u>16.0</u>	<u>16.7</u>			19.4	30	10.6
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	6	<u>16.0</u>	<u>16.7</u>			19.4	30	10.6
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	30	8.9
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	30	8.9
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	30	8.9
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	30	7.7
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	30	7.7
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	30	7.7
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>16.0</u>	<u>16.7</u>			19.4	27	7.6
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>16.0</u>	<u>16.7</u>			19.4	30	10.6
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	25.2	4.1
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	28.2	7.1
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	30	8.9
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	24	1.7
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	27	4.7
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	28.8	6.5
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>16.0</u>	<u>16.7</u>			19.4	30	10.6
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>		21.1	30	8.9
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>16.0</u>	<u>16.7</u>	<u>16.2</u>	<u>16.1</u>	22.3	30	7.7



5785/5805	Non HT/VHT40, 6 to 54 Mbps	1	6	<u>16.4</u>				16.4	30	13.6
	Non HT/VHT40, 6 to 54 Mbps	2	6	<u>16.4</u>	<u>17.3</u>			19.9	30	10.1
	Non HT/VHT40, 6 to 54 Mbps	3	6	<u>16.4</u>	<u>17.3</u>	<u>16.7</u>		21.6	30	8.4
	Non HT/VHT40, 6 to 54 Mbps	4	6	<u>16.4</u>	<u>17.3</u>	<u>16.7</u>	<u>16.9</u>	22.9	30	7.1
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	6	<u>15.9</u>				15.9	30	14.1
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	6	<u>15.9</u>	<u>16.7</u>			19.3	30	10.7
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	6	<u>15.9</u>	<u>16.7</u>			19.3	30	10.7
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	30	9.0
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	30	9.0
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	30	9.0
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	30	7.7
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	30	7.7
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	30	7.7
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>15.9</u>	<u>16.7</u>			19.3	27	7.7
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>15.9</u>	<u>16.7</u>			19.3	30	10.7
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	25.2	4.2
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	28.2	7.2
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	30	9.0
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	24	1.7
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	27	4.7
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	28.8	6.5
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>15.9</u>	<u>16.7</u>			19.3	30	10.7
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>		21.0	30	9.0
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>15.9</u>	<u>16.7</u>	<u>16.1</u>	<u>16.4</u>	22.3	30	7.7
5825	Non HT/VHT20, 6 to 54 Mbps	1	6	<u>15.9</u>				15.9	30	14.1
	Non HT/VHT20, 6 to 54 Mbps	2	6	<u>15.9</u>	<u>16.5</u>			19.2	30	10.8
	Non HT/VHT20, 6 to 54 Mbps	3	6	<u>15.9</u>	<u>16.5</u>	<u>16.1</u>		20.9	30	9.1
	Non HT/VHT20, 6 to 54 Mbps	4	6	<u>15.9</u>	<u>16.5</u>	<u>16.1</u>	<u>16.1</u>	22.2	30	7.8
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	9	<u>15.9</u>	<u>16.5</u>			19.2	27	7.8
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	11	<u>15.9</u>	<u>16.5</u>	<u>16.1</u>		20.9	25.2	4.3
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	12	<u>15.9</u>	<u>16.5</u>	<u>16.1</u>	<u>16.1</u>	22.2	24	1.8
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	6	<u>15.8</u>				15.8	30	14.2
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	6	<u>15.8</u>	<u>16.5</u>			19.2	30	10.8
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	6	<u>15.8</u>	<u>16.5</u>			19.2	30	10.8
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	30	9.1
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	30	9.1
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	30	9.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	30	7.9
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	30	7.9
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	30	7.9



HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	9	<u>15.8</u>	<u>16.5</u>			19.2	27	7.8
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	6	<u>15.8</u>	<u>16.5</u>			19.2	30	10.8
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	11	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	25.2	4.3
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	8	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	28.2	7.3
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	30	9.1
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	12	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	24	1.9
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	9	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	27	4.9
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	7	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	28.8	6.7
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	6	<u>15.8</u>	<u>16.5</u>			19.2	30	10.8
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>		20.9	30	9.1
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	6	<u>15.8</u>	<u>16.5</u>	<u>16.0</u>	<u>16.1</u>	22.1	30	7.9

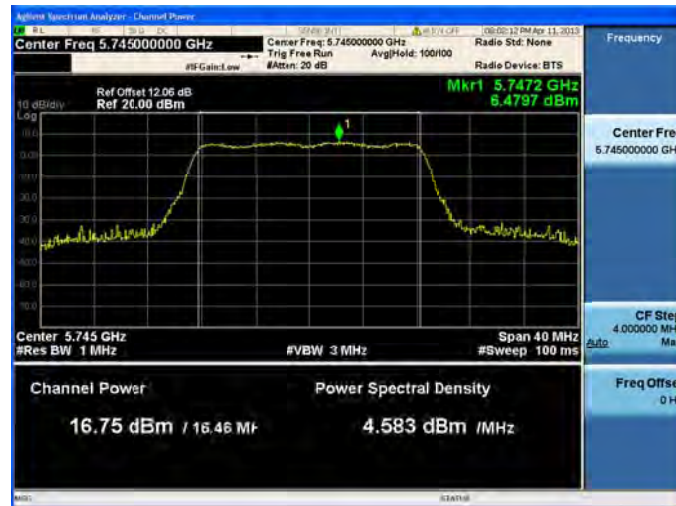
Peak Output Power, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

Peak Output Power, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

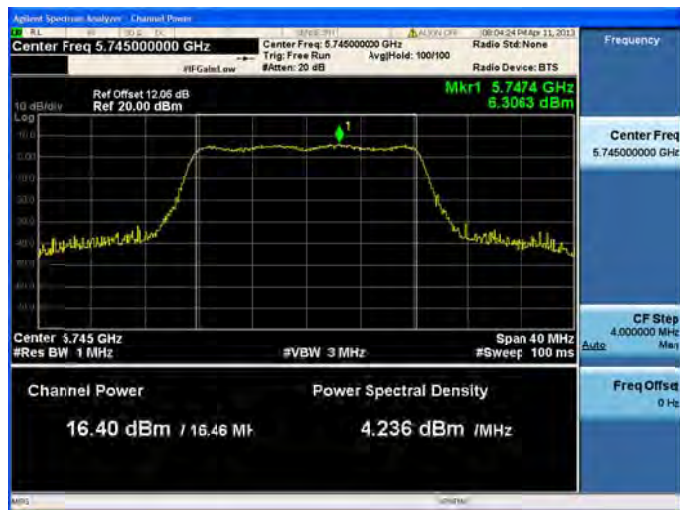
Peak Output Power, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps



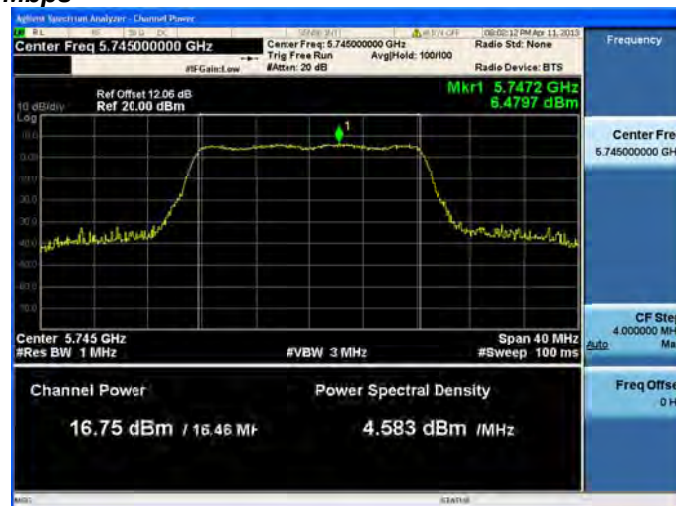
Antenna A



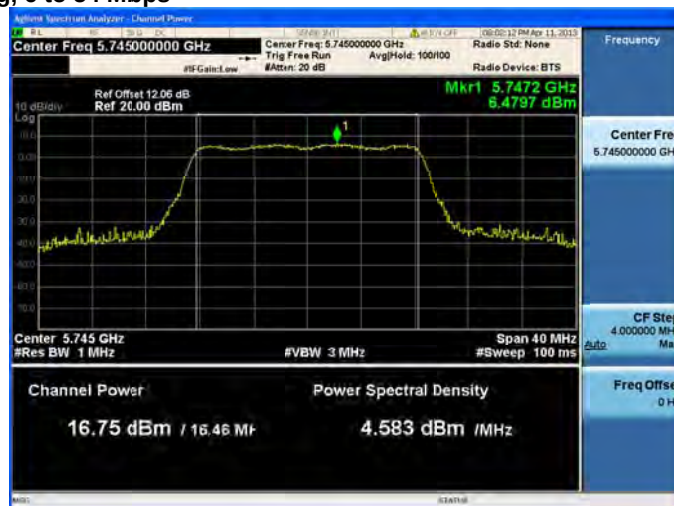
Antenna B

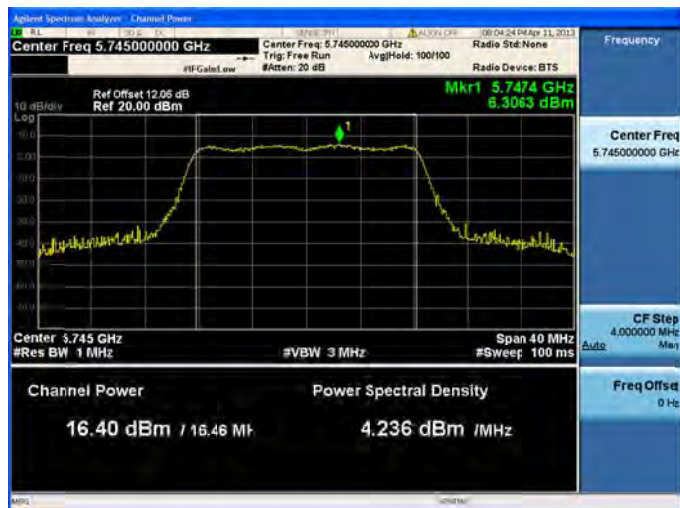
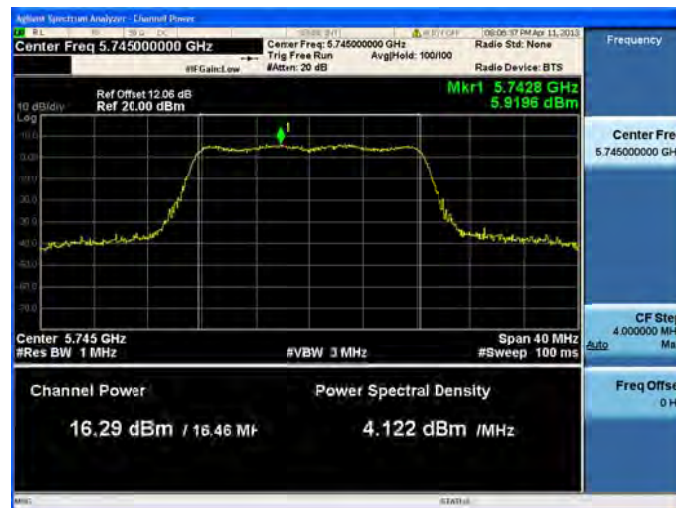


Antenna C

Peak Output Power, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5745 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

Peak Output Power, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps



Antenna A



Antenna B



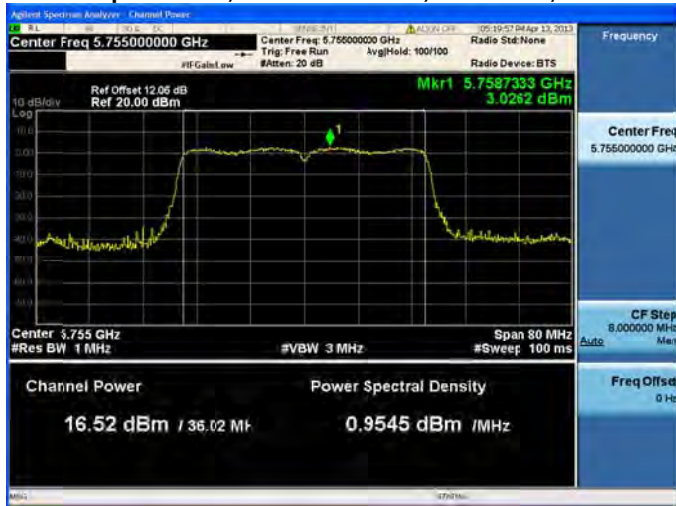
Antenna C

Peak Output Power, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1



Antenna A



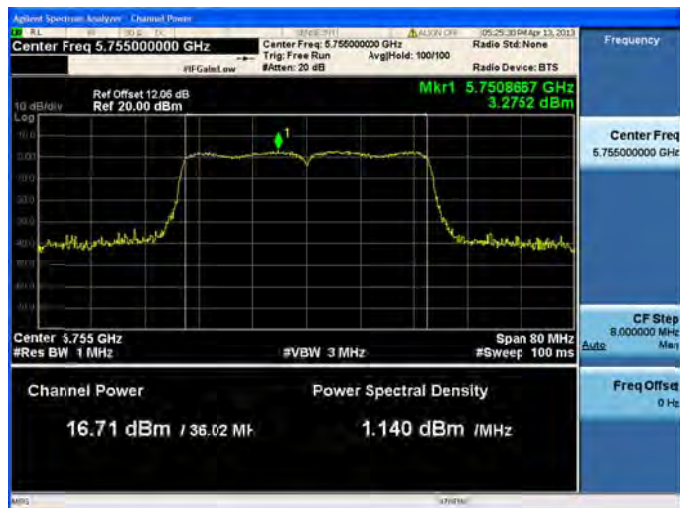
Antenna B



Antenna C

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Antenna A

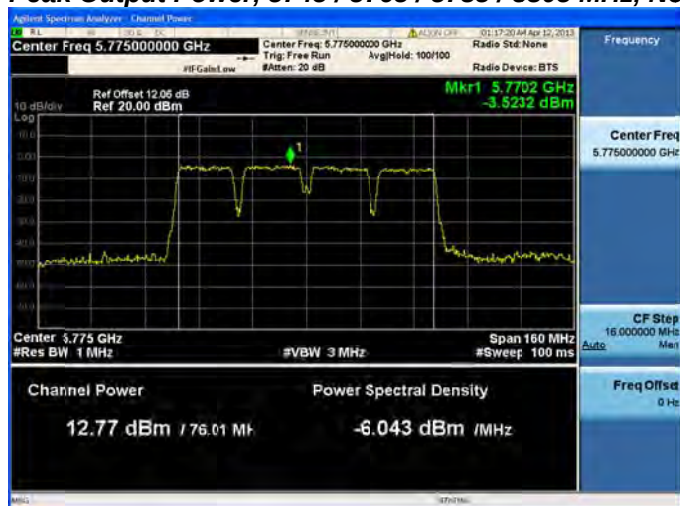


Antenna B



Antenna C

Peak Output Power, 5745 / 5765 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A**

**Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps



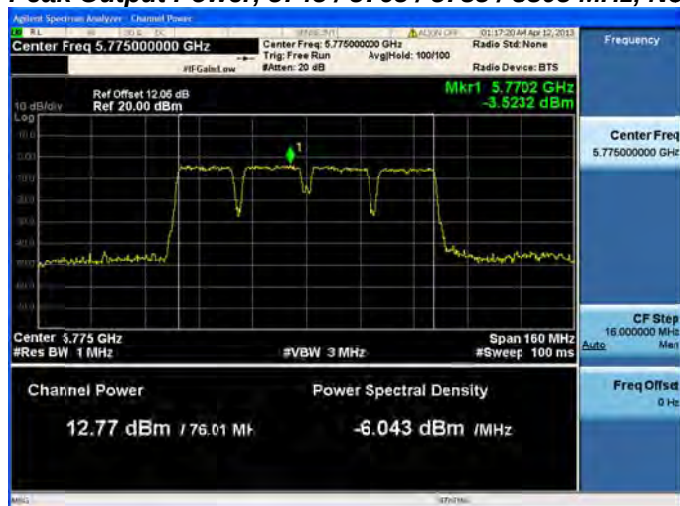
Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1



Antenna A



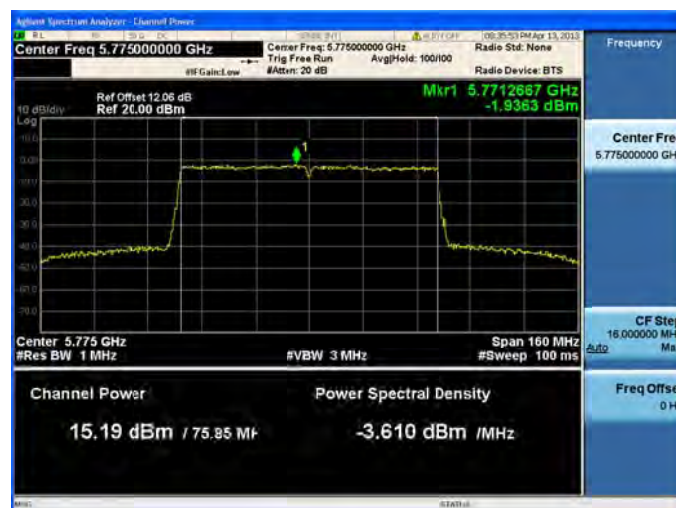
Antenna B

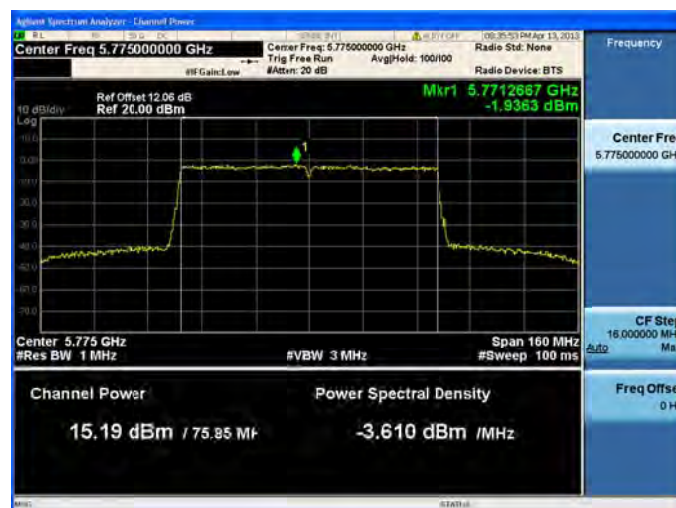


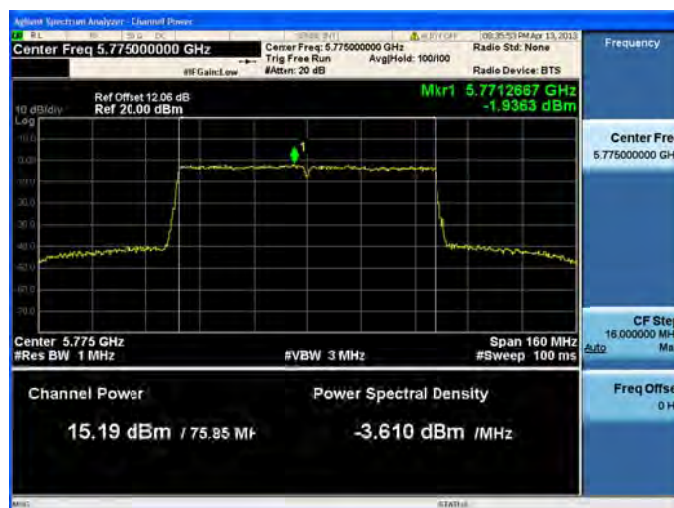
Antenna C

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**



Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



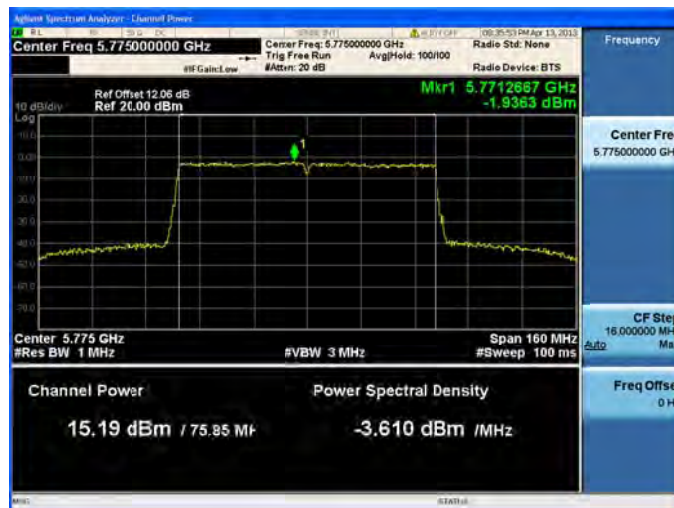
Antenna B

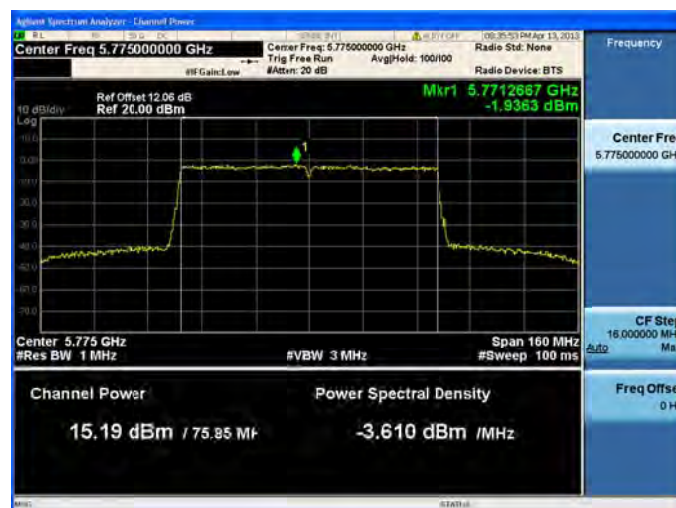


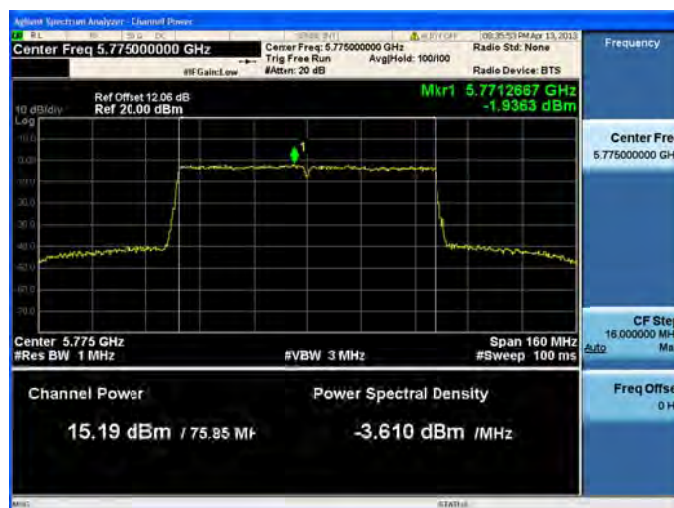
Antenna C

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B**

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1



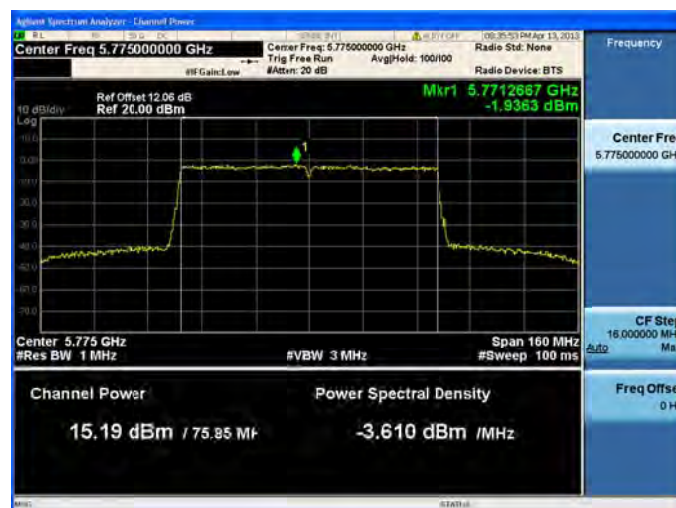
Antenna A



Antenna B



Antenna C

Peak Output Power, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

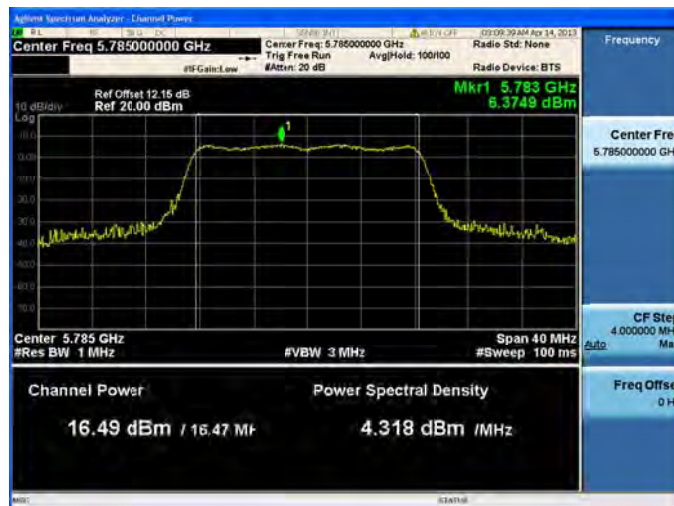
Peak Output Power, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

Peak Output Power, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps



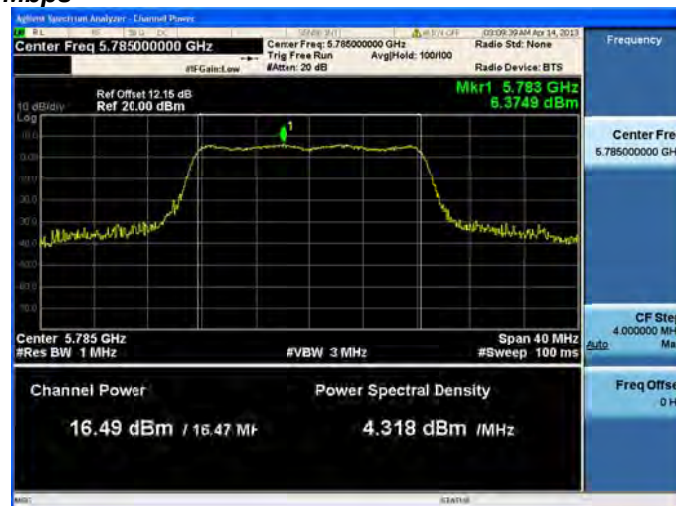
Antenna A



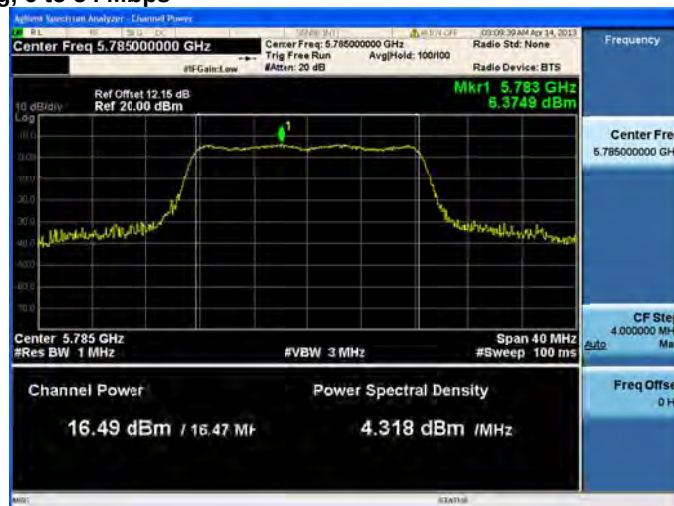
Antenna B



Antenna C

Peak Output Power, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5785 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5785 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5785 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



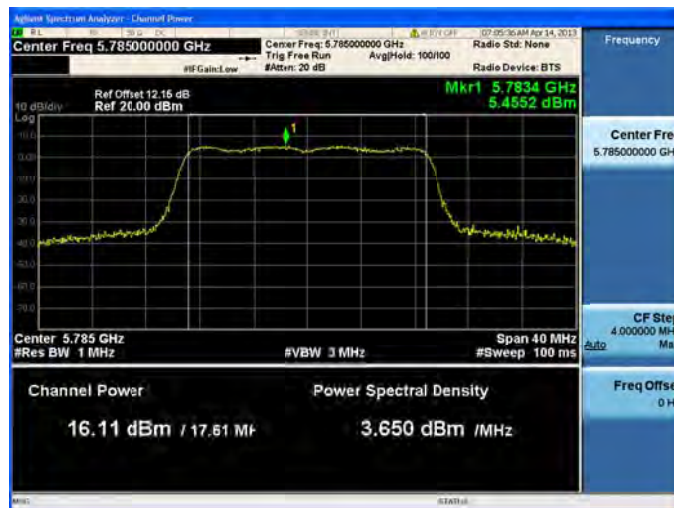
Antenna C

Peak Output Power, 5785 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1


Antenna A



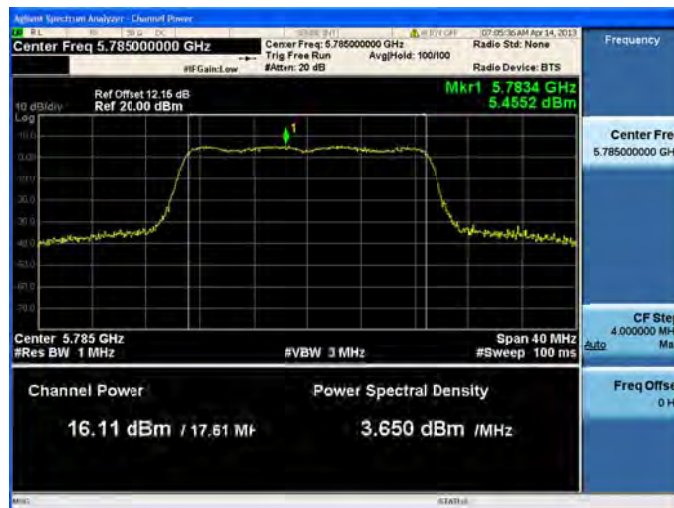
Antenna B

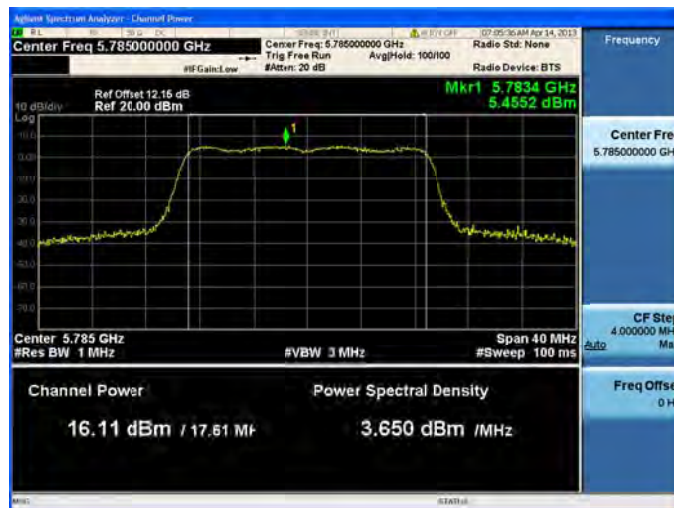


Antenna C



Antenna D

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



Antenna A



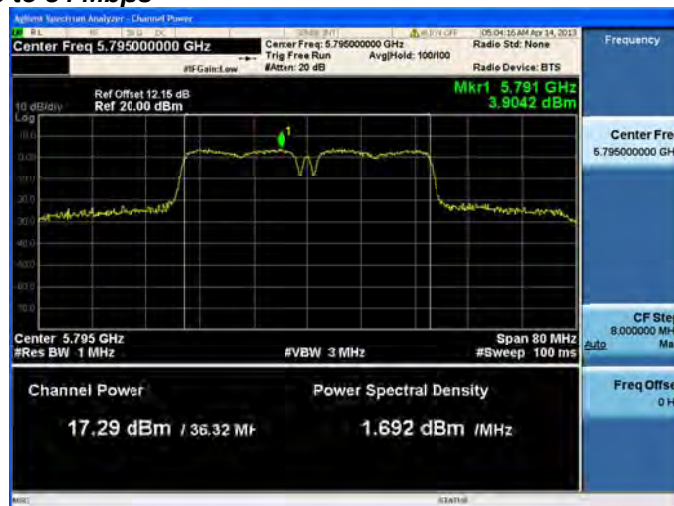
Antenna B



Antenna C

Peak Output Power, 5785 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

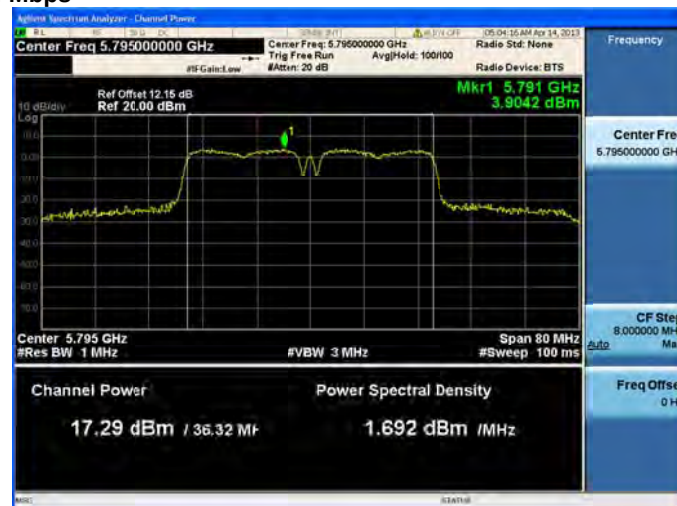
Peak Output Power, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

Peak Output Power, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps



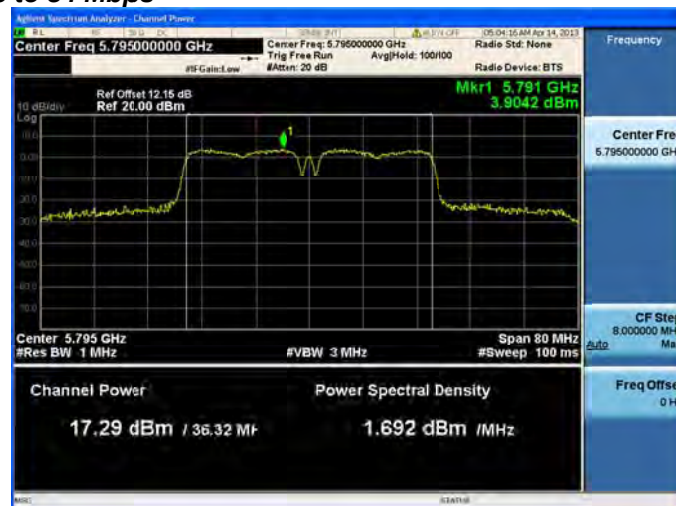
Antenna A



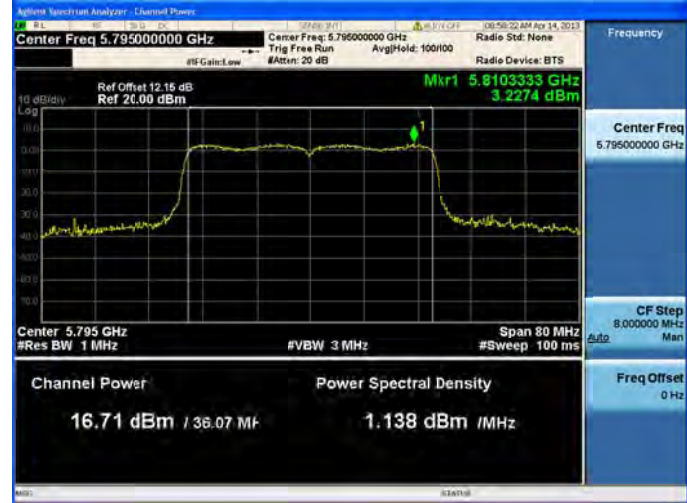
Antenna B



Antenna C

Peak Output Power, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2



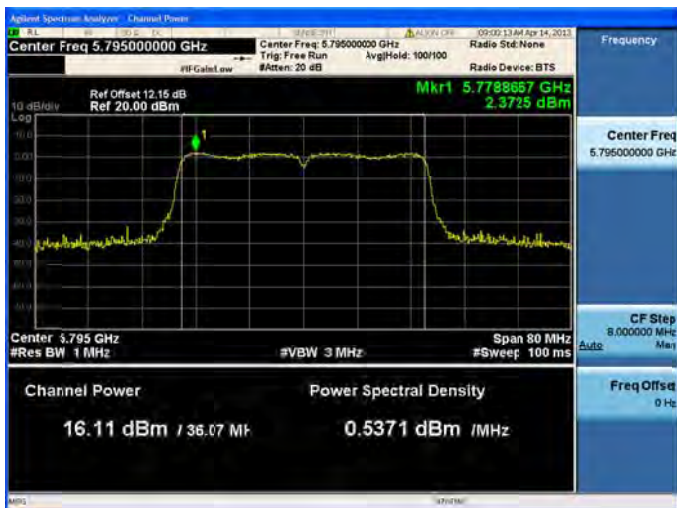
Antenna A



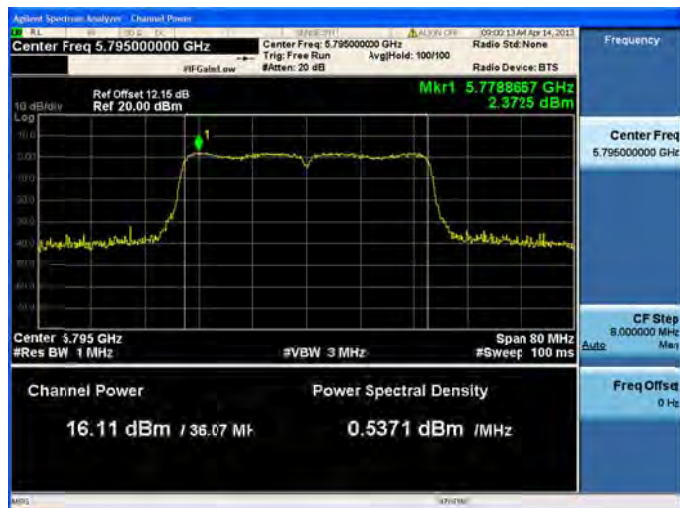
Antenna B

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



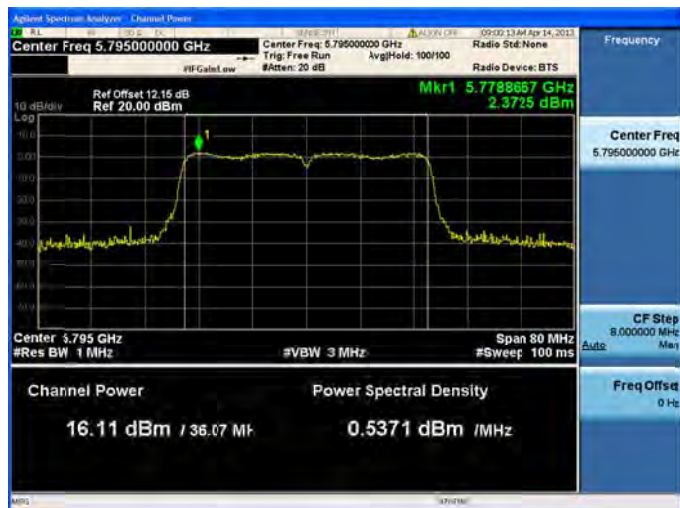
Antenna C

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

Peak Output Power, 5785 / 5805 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

**Peak Output Power, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B**

Peak Output Power, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A



Antenna B



Antenna C

Peak Output Power, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

Peak Output Power, 5825 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5825 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power, 5825 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5825 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5825 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A



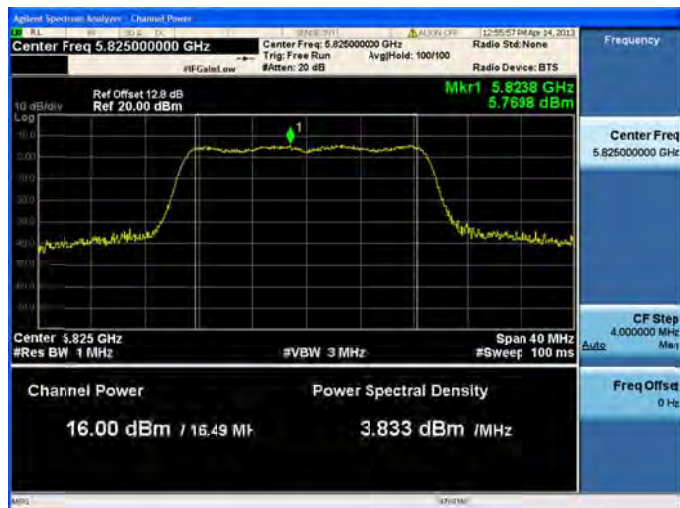
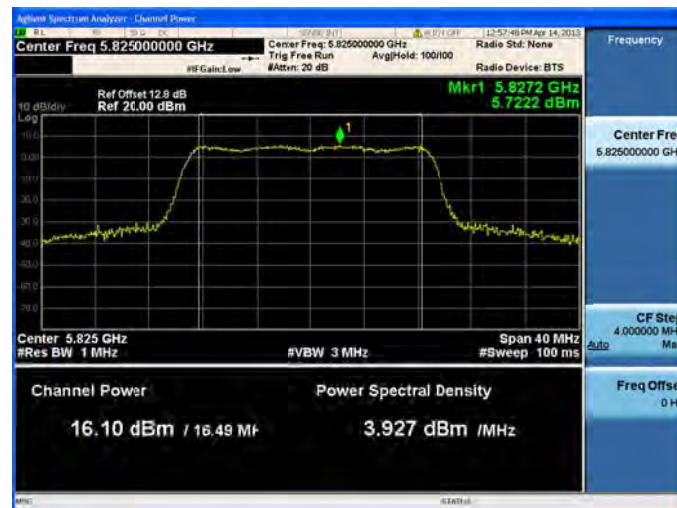
Antenna B



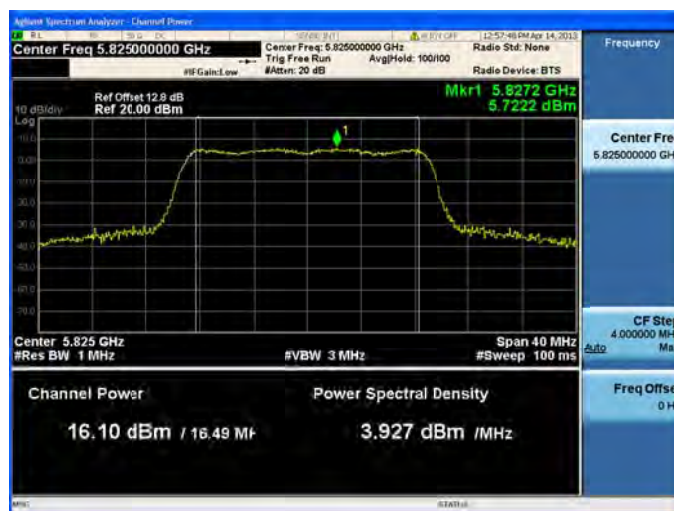
Antenna C

Peak Output Power, 5825 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5825 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5825 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B

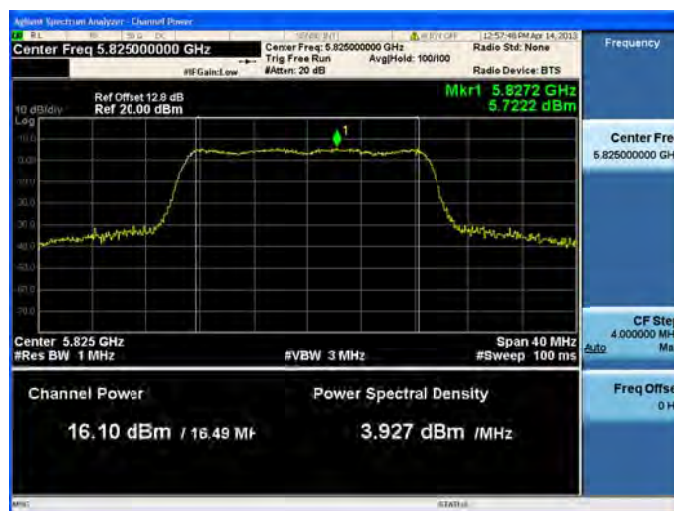


Antenna C

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**

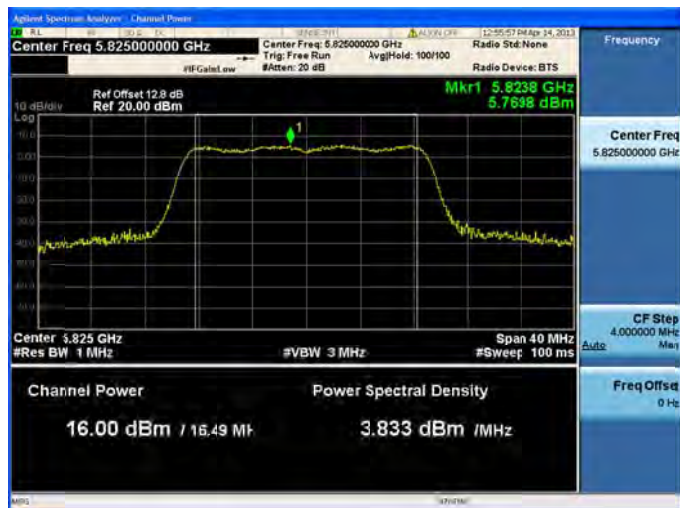
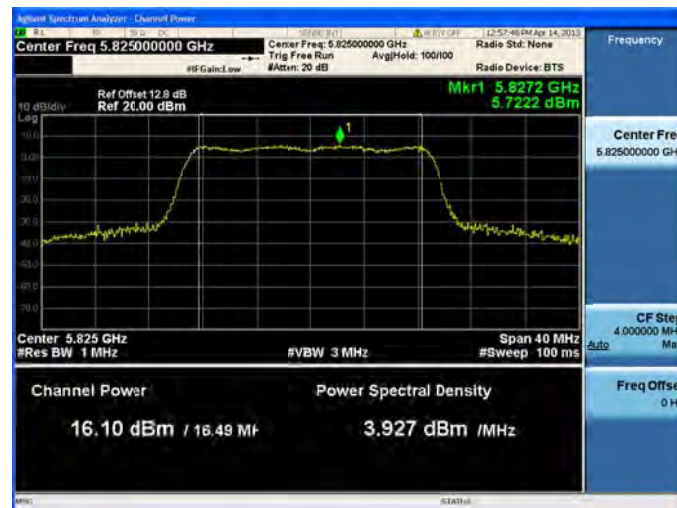
Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power, 5825 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power, 5825 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Peak Output Power, 5825 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**



Power Spectral Density

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

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below.

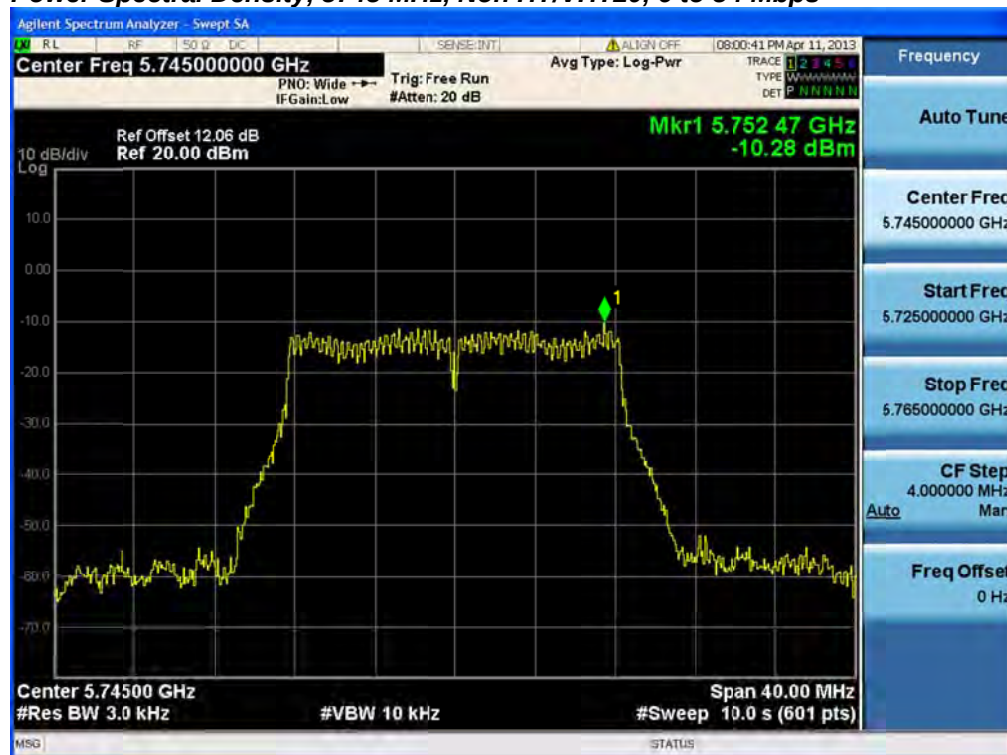
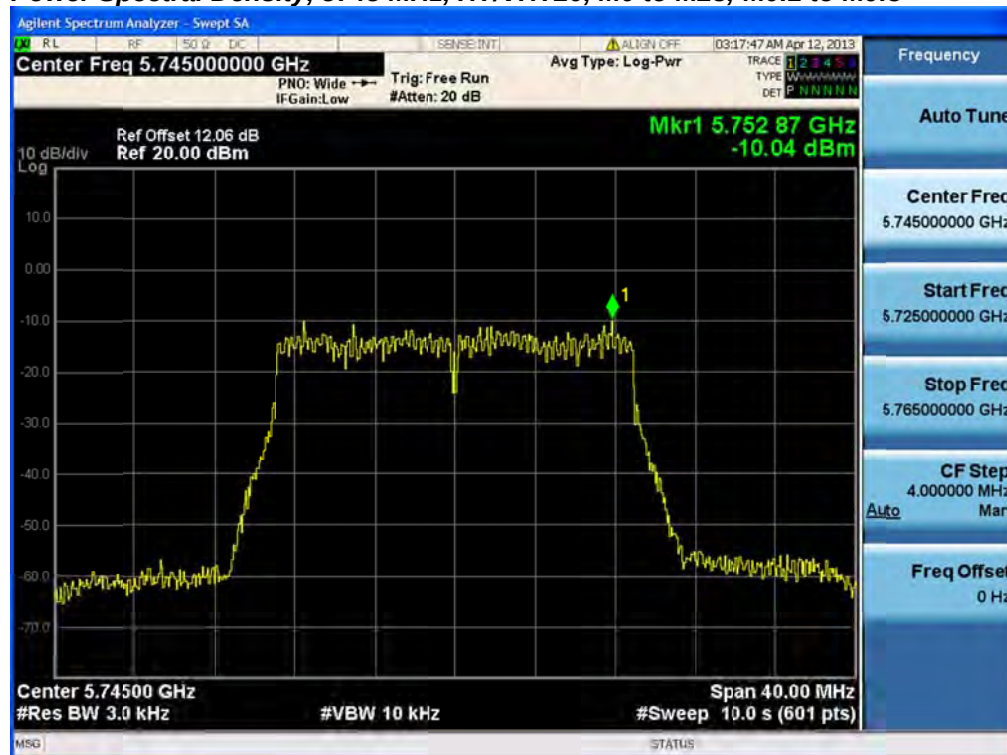
Center Frequency:	Frequency from table below
Span:	20 MHz
Ref Level Offset:	Correct for attenuator and cable loss.
Reference Level:	20 dBm
Attenuation:	20 dB
Sweep Time:	10s
Resolution Bandwidth:	3 kHz
Video Bandwidth:	10 kHz
Detector:	Peak
Trace:	Single
Marker:	Peak Search

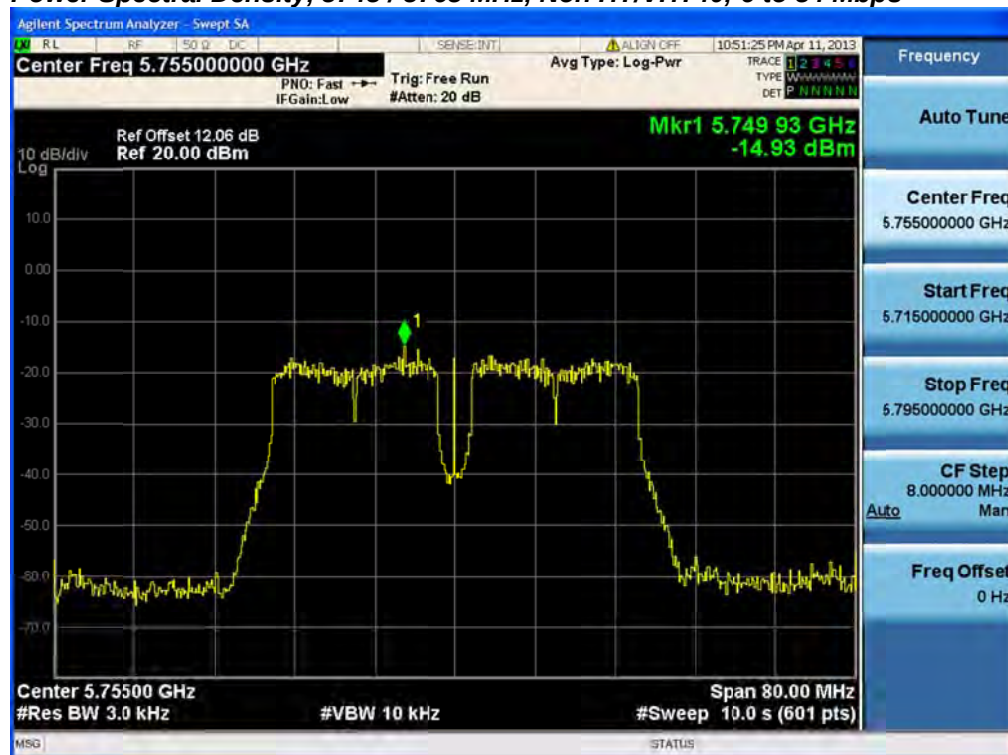
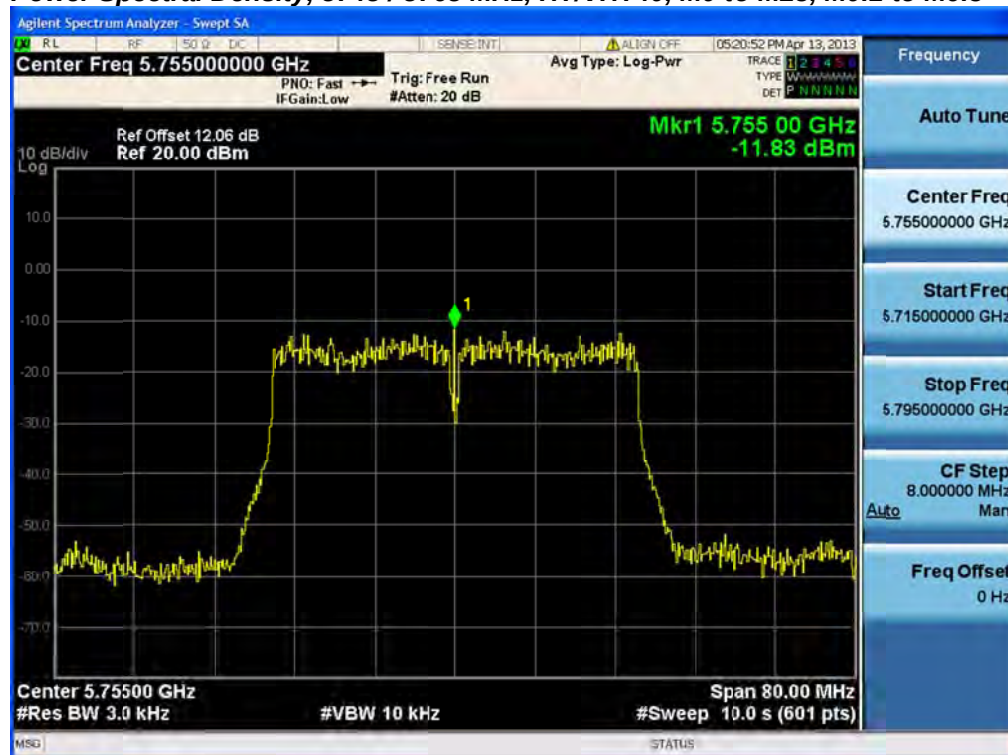
Record the Marker value.

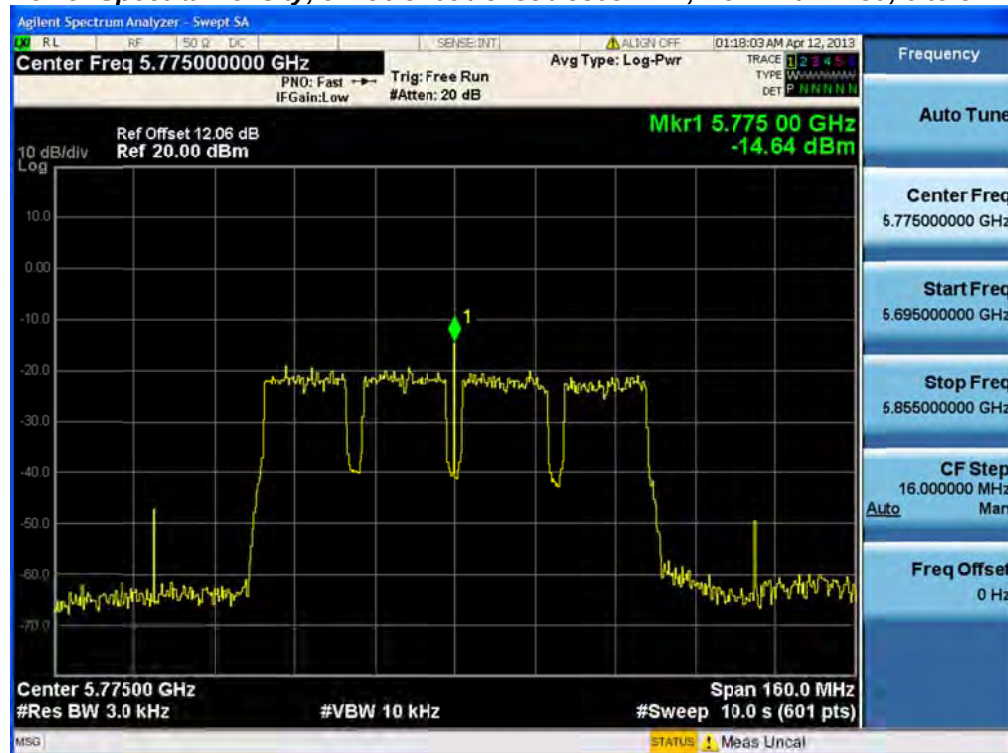
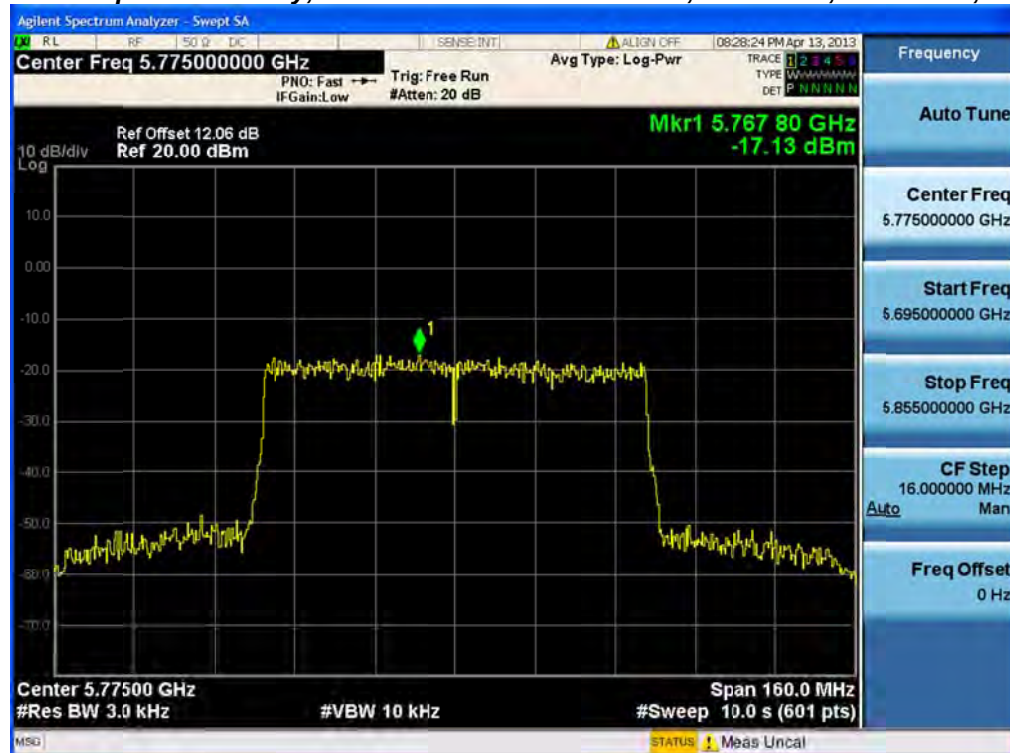
The “Measure and add $10 \log(N)$ dB technique”, where N is the number of outputs, is used for measuring in-band Power Spectral Density. With this technique, spectrum measurements are performed at each output of the device, and the quantity $10 \log(4)$ (or 6dB) is added to the worst case spectrum value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

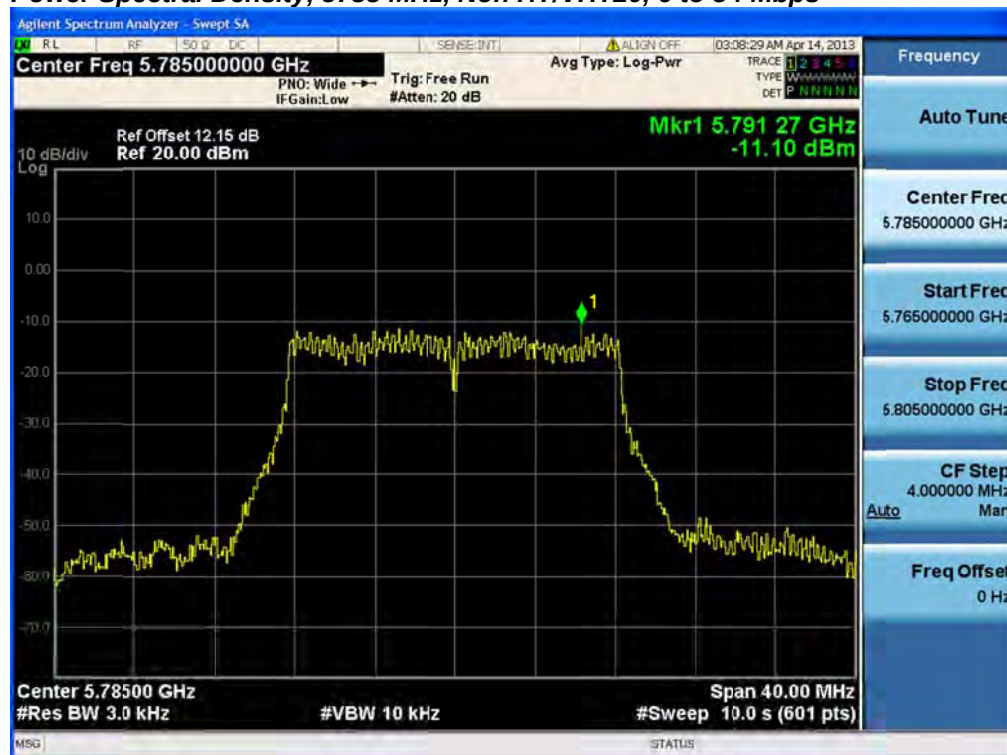
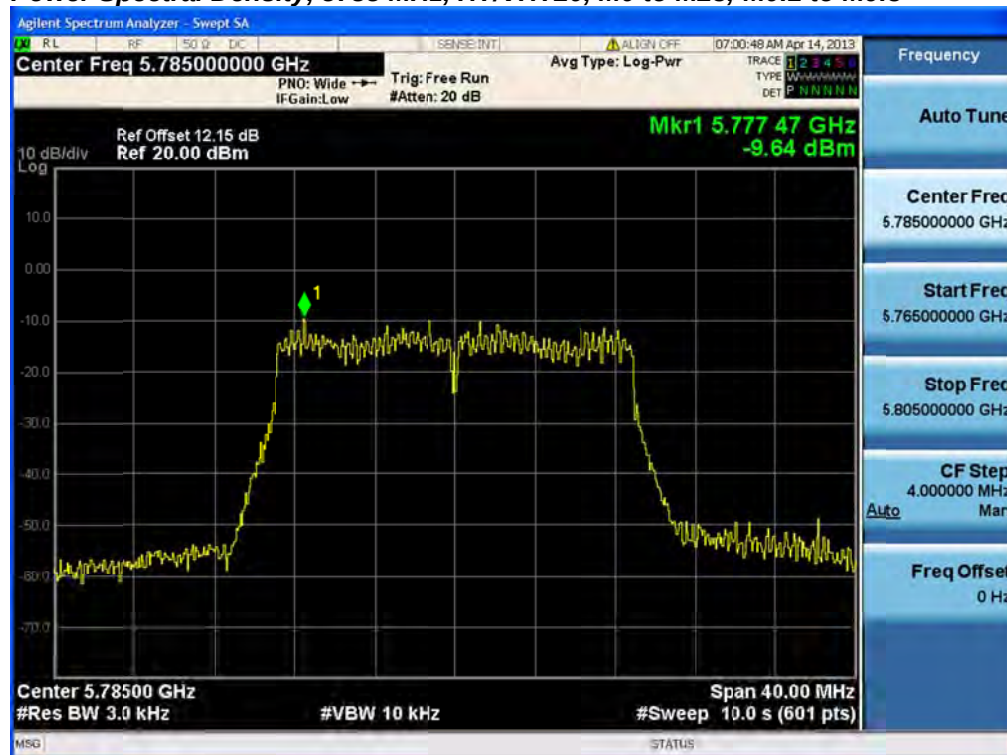


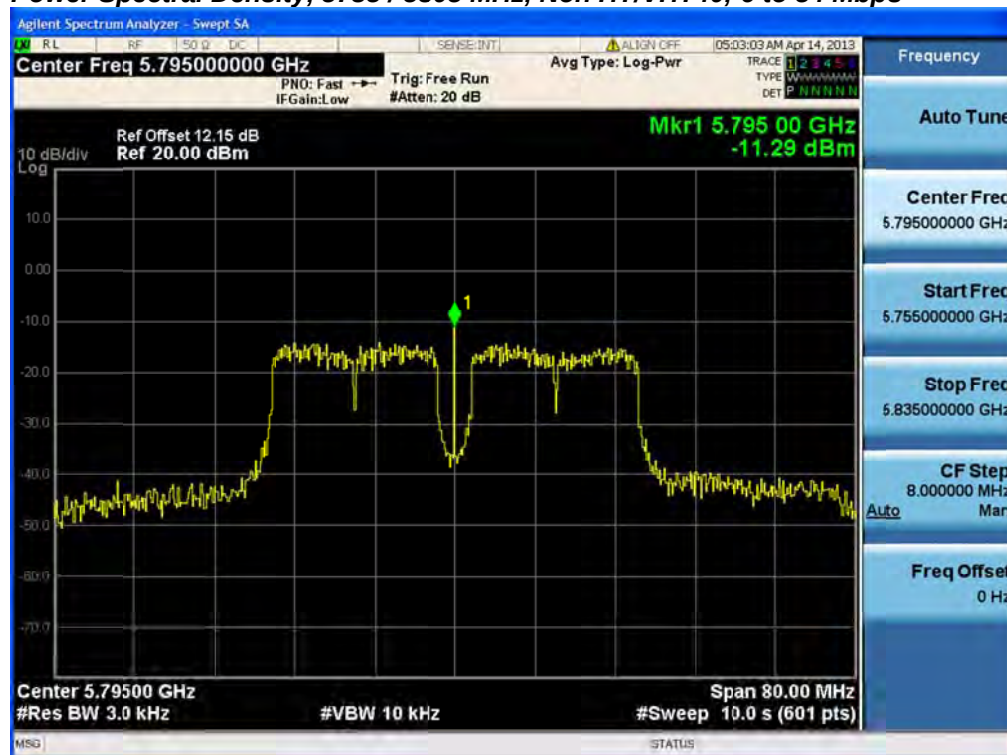
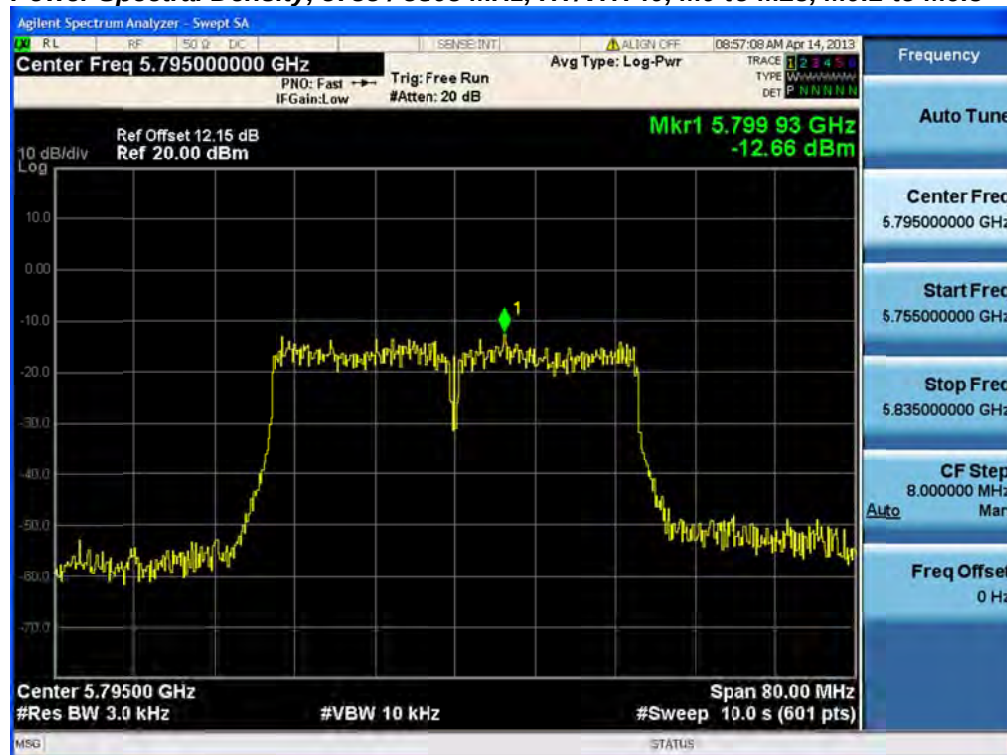
Frequency (MHz)	Mode	Data Rate (Mbps)	PSD / Antenna (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
5745	Non HT/VHT20, 6 to 54 Mbps	6	<u>-10.3</u>	-4.3	8.0	12.3
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>-10</u>	-4.0	8.0	12.0
5745/5765	Non HT/VHT40, 6 to 54 Mbps	6	<u>-14.9</u>	-8.9	8.0	16.9
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>-11.8</u>	-5.8	8.0	13.8
5745/5765 5785/5805	Non HT/VHT80, 6 to 54 Mbps	6	<u>-14.6</u>	-8.6	8.0	16.6
	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>-17.1</u>	-11.1	8.0	19.1
5785	Non HT/VHT20, 6 to 54 Mbps	6	<u>-11.1</u>	-5.1	8.0	13.1
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>-9.6</u>	-3.6	8.0	11.6
5785/5805	Non HT/VHT40, 6 to 54 Mbps	6	<u>-11.3</u>	-5.3	8.0	13.3
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>-12.7</u>	-6.7	8.0	14.7
5825	Non HT/VHT20, 6 to 54 Mbps	6	<u>-10.3</u>	-4.3	8.0	12.3
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>-10.1</u>	-4.1	8.0	12.1

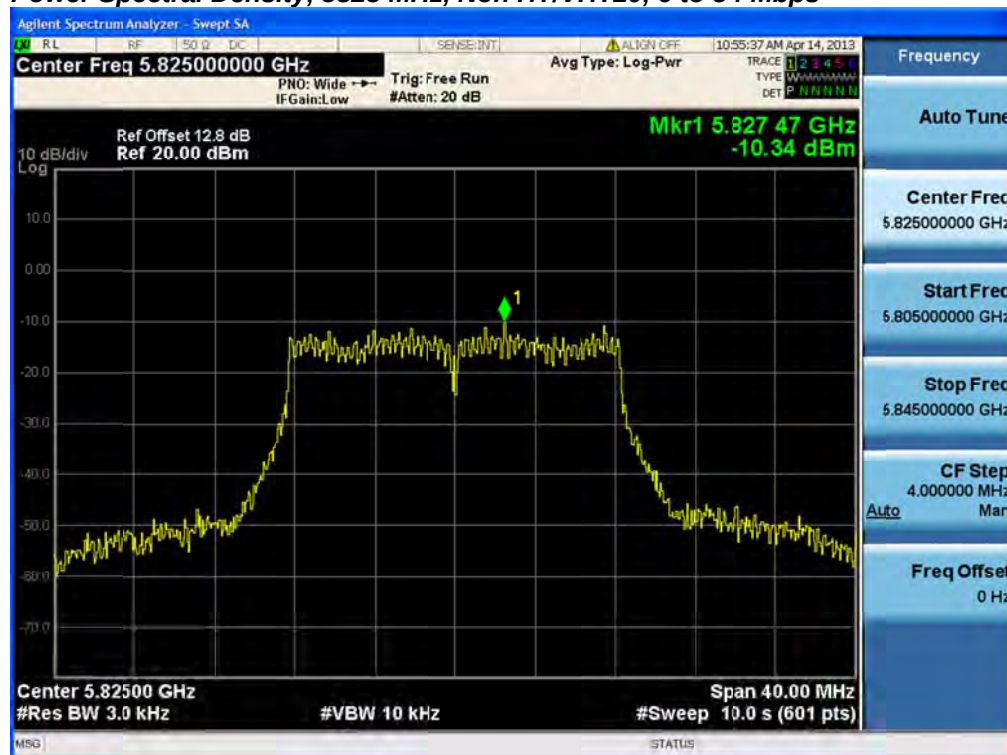
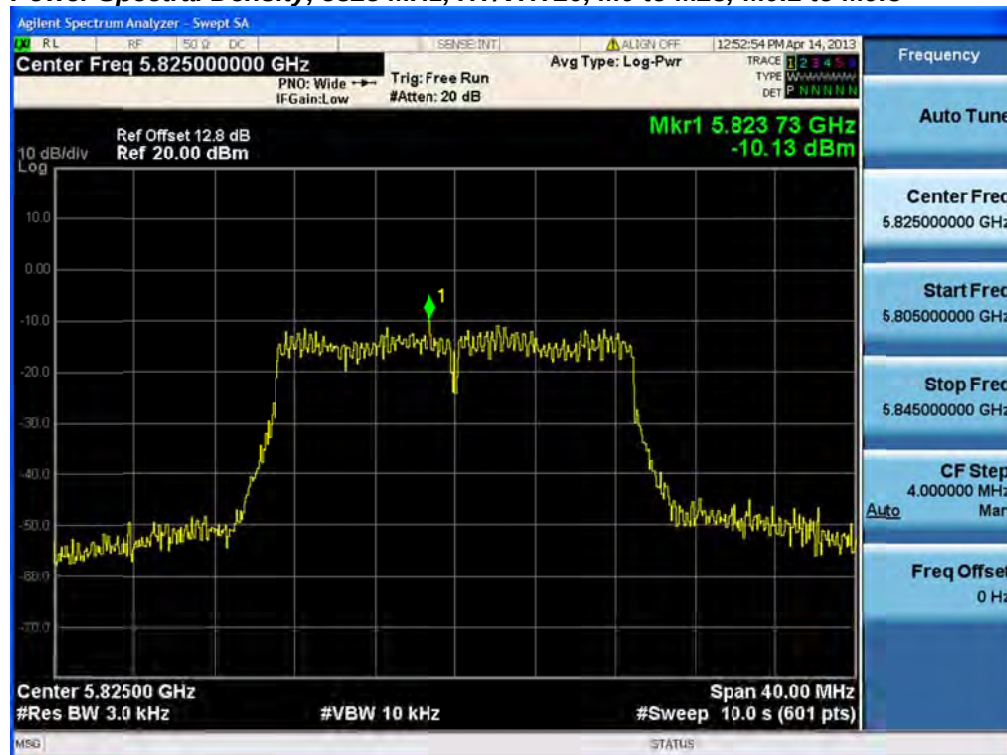
Power Spectral Density, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Power Spectral Density, 5745 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Power Spectral Density, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**Power Spectral Density, 5745 / 5765 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Power Spectral Density, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**Power Spectral Density, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

Power Spectral Density, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**Power Spectral Density, 5785 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Power Spectral Density, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Power Spectral Density, 5785 / 5805 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Power Spectral Density, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**Power Spectral Density, 5825 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Spurious Emission

15.247: In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

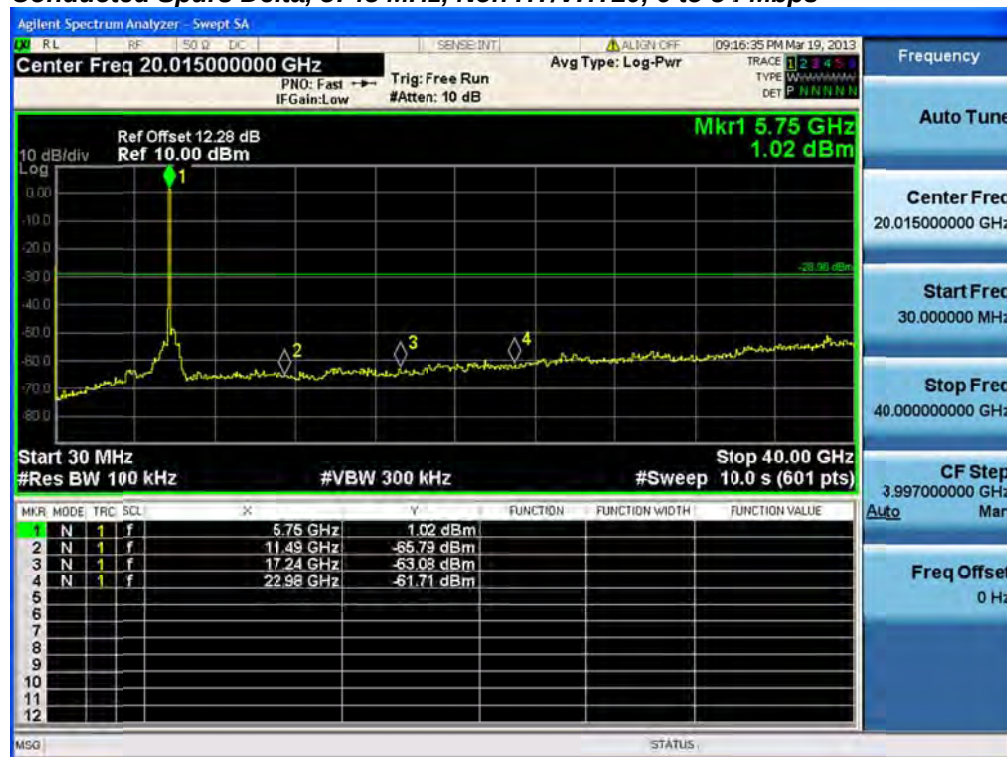
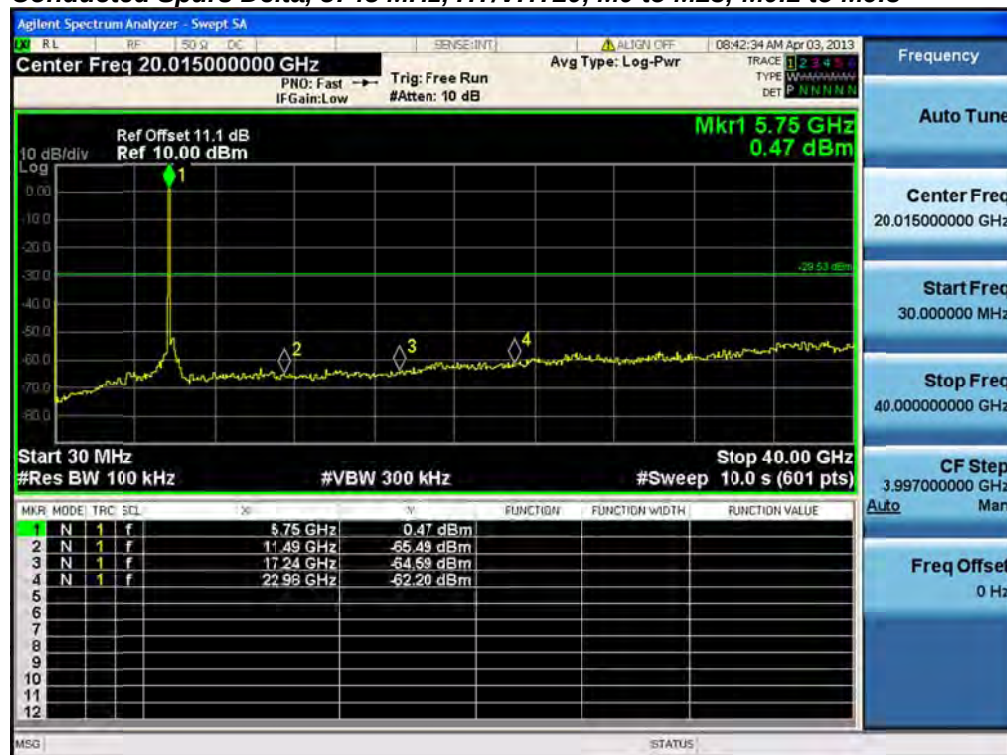
Span:	30 MHz-26 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5s
Resolution Bandwidth:	100 kHz
Video Bandwidth:	300 kHz
Detector:	Peak
Trace:	Single
Marker:	Peak

Record the marker waveform peak to spur difference

Out-of-band and spurious emissions tests are performed on each output individually without summing or adding $10 \log(N)$ since the measurements are made relative to the in-band emissions on the individual outputs. The worst case output is recorded.



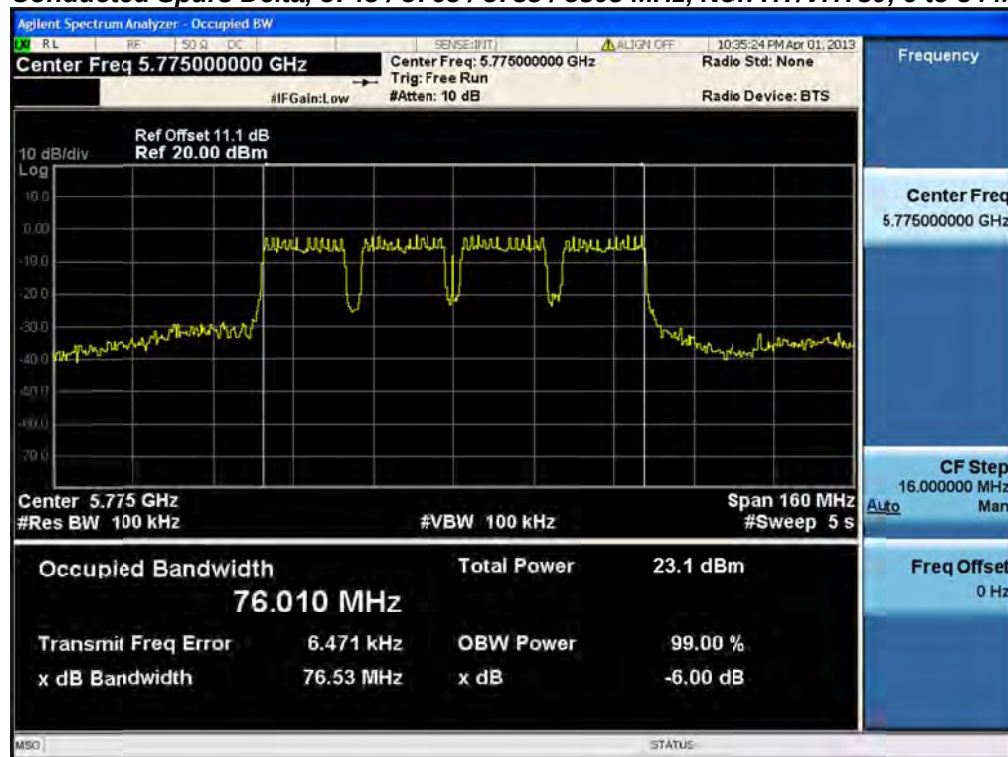
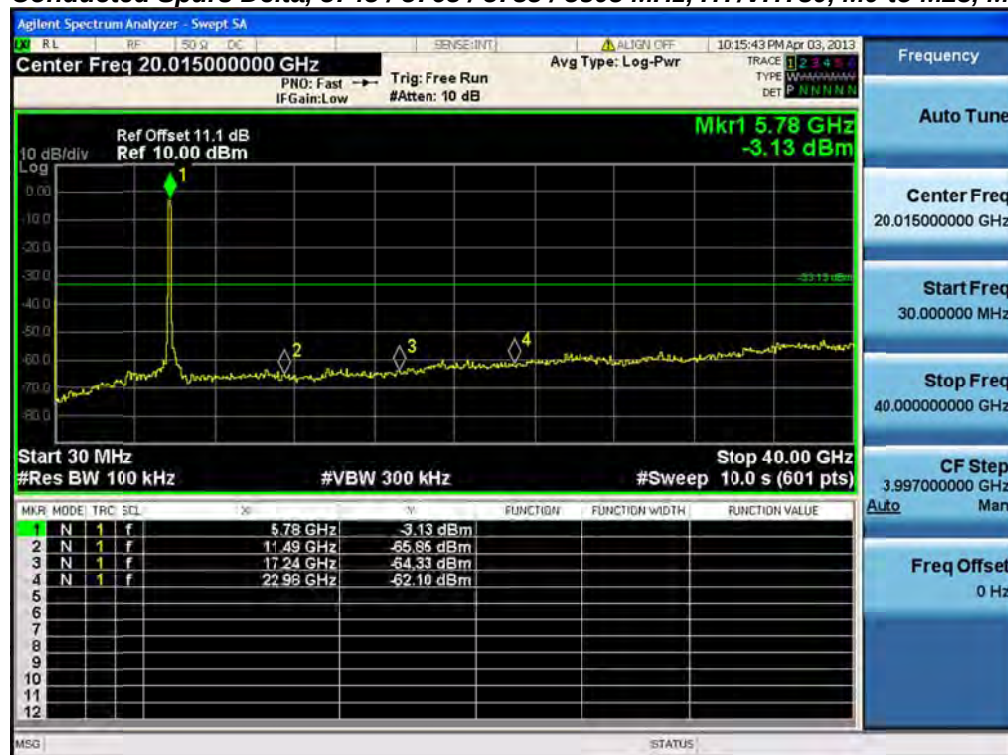
Frequency (MHz)	Mode	Data Rate (Mbps)	Conducted Spur Delta (dB)	Limit (dB c)	Margin (dB)
5745	Non HT/VHT20, 6 to 54 Mbps	6	<u>62.7</u>	30	32.7
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>62.7</u>	30	32.7
5745/5765	Non HT/VHT40, 6 to 54 Mbps	6	<u>57.9</u>	30	27.9
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>59.5</u>	30	29.5
5745/5765 5785/5805	Non HT/VHT80, 6 to 54 Mbps	6	<u>53.7</u>	30	23.7
	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>59</u>	30	29
5785	Non HT/VHT20, 6 to 54 Mbps	6	<u>62.9</u>	30	32.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>62</u>	30	32
5785/5805	Non HT/VHT40, 6 to 54 Mbps	6	<u>60.6</u>	30	30.6
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>59.7</u>	30	29.7
5825	Non HT/VHT20, 6 to 54 Mbps	6	<u>61.9</u>	30	31.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>63</u>	30	33

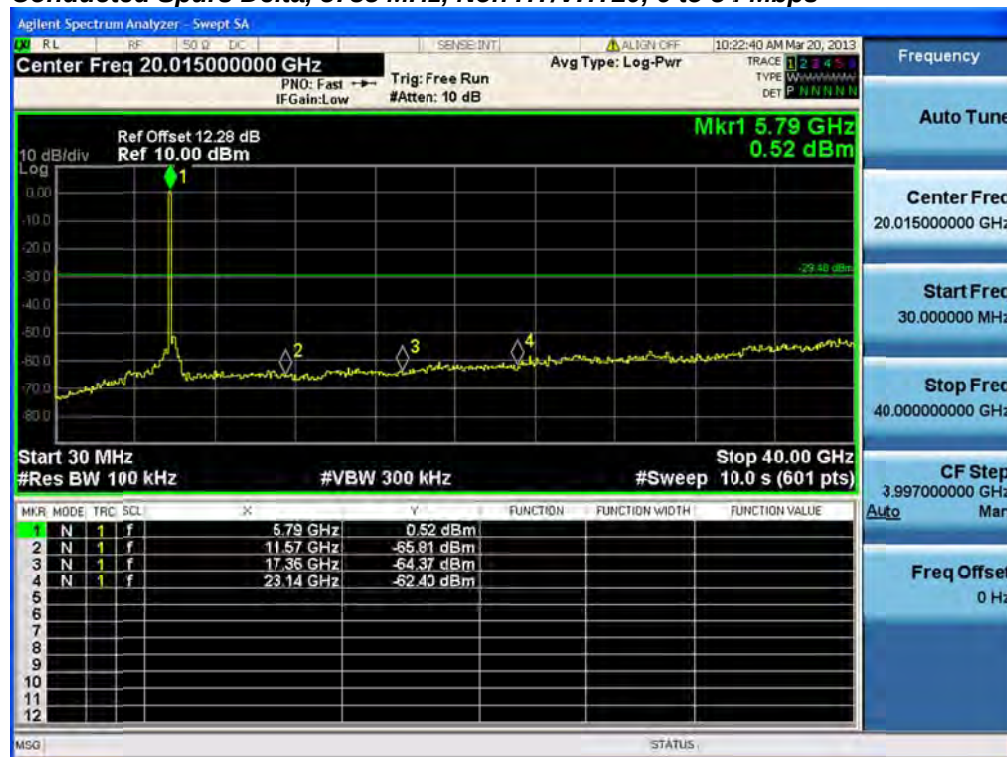
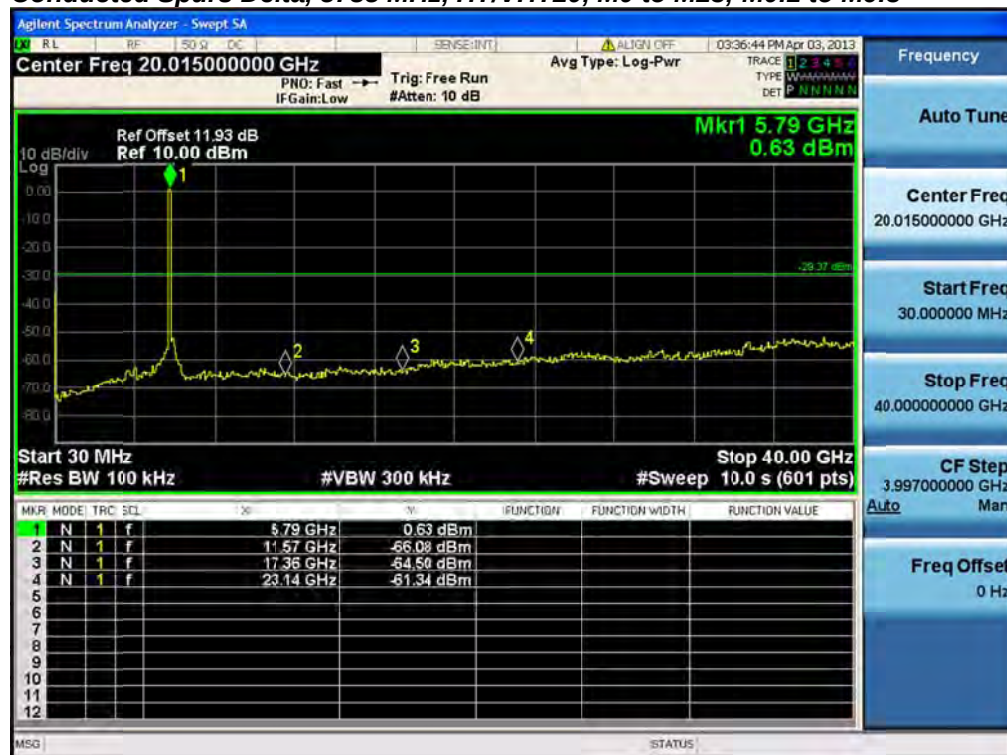
Conducted Spurs Delta, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs Delta, 5745 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

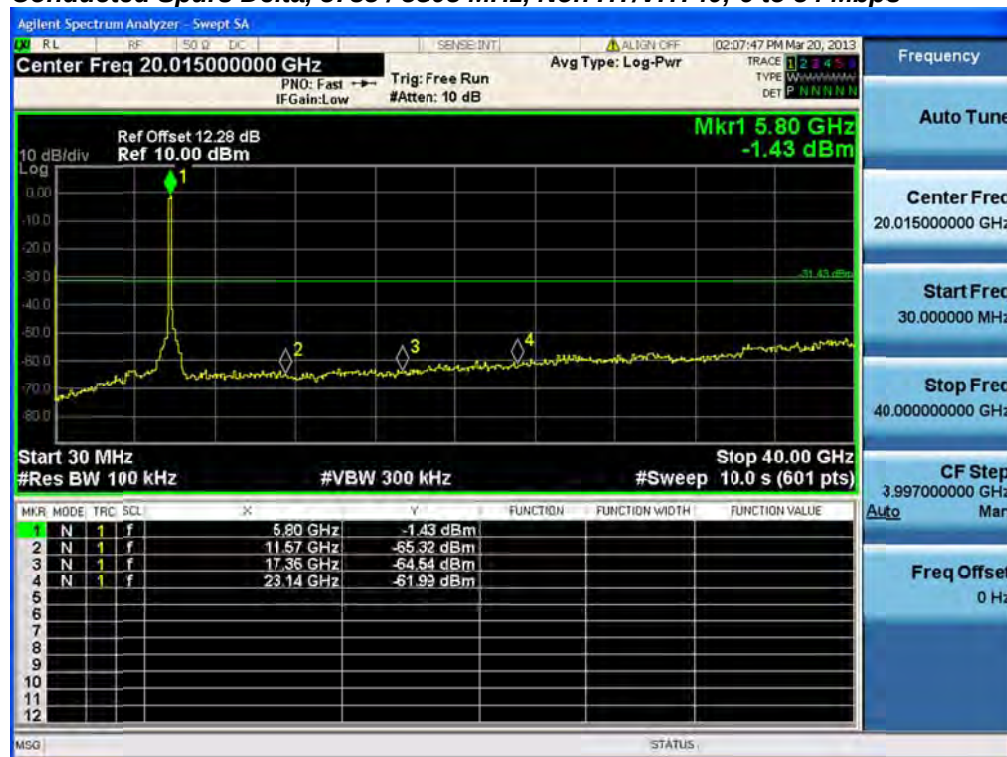
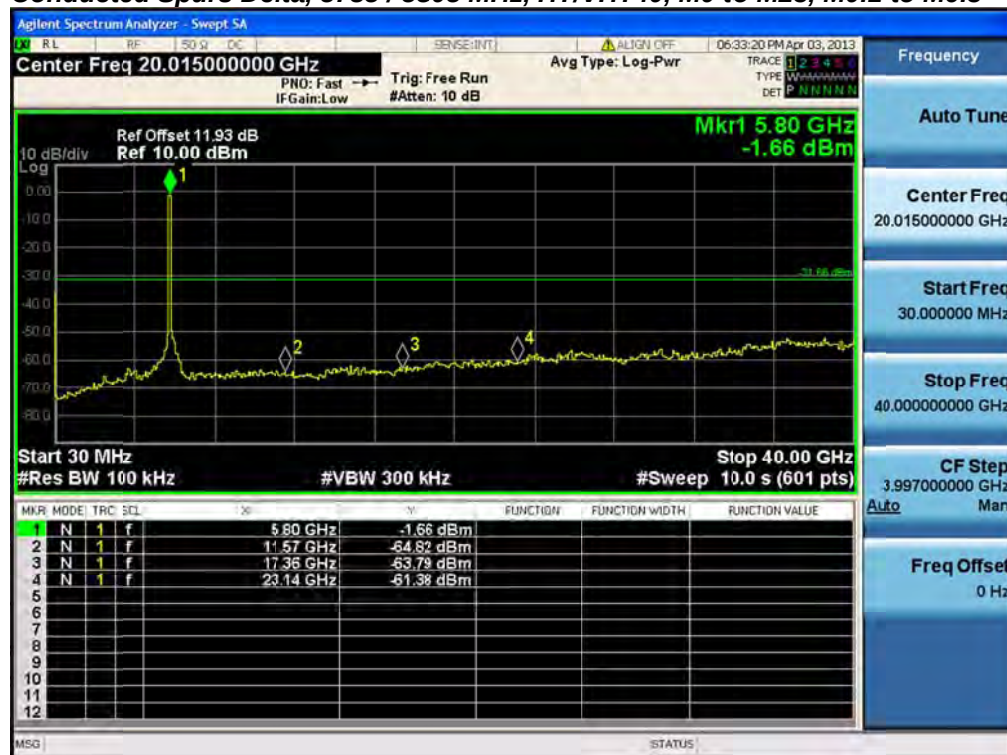
The screenshot displays the Agilent Spectrum Analyzer interface. The main plot shows a signal spectrum with a center frequency of 5.755 GHz. The y-axis is labeled 'Log' and ranges from -70.0 to 10.0 dBm. The x-axis represents frequency. The signal has a main peak around -10 dBm and a smaller peak around -20 dBm. The occupied bandwidth is 36.283 MHz. The total power is 22.9 dBm. The transmit frequency error is -2.993 kHz. The x dB bandwidth is 35.75 MHz. The OBW power is 99.00%. The frequency offset is 0 Hz. The radio device is BTS. The radio standard is None. The center frequency is 5.755000000 GHz. The span is 80 MHz. The resolution bandwidth is 100 kHz. The sweep time is 5 s. The reference offset is 11.1 dB. The reference level is 20.00 dBm. The IF gain is Low. The attenuation is 10 dB. The trigger is Free Run. The sense is VIT. The align off is on. The date and time are 09:43:08 PM Apr 01, 2013.

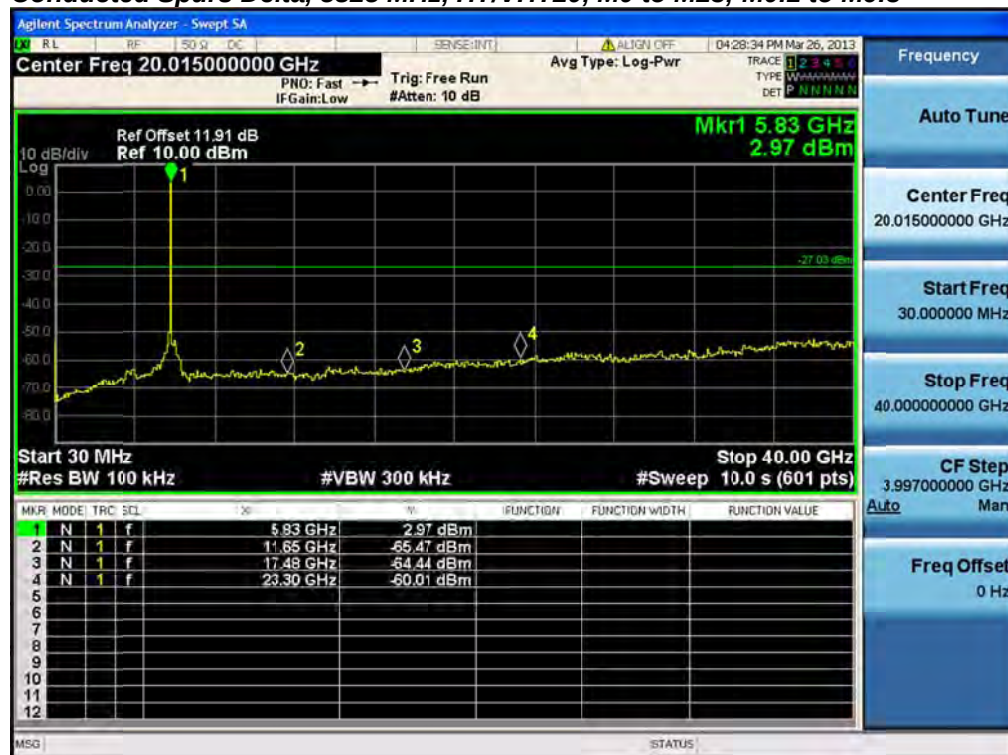
Parameter	Value
Center Freq	5.755000000 GHz
Radio Std	None
Radio Device	BTS
Ref Offset	11.1 dB
Ref	20.00 dBm
#IFGain	Low
#Atten	10 dB
Trig	Free Run
Sense	VIT
Align Off	On
Center Freq	5.755 GHz
#Res BW	100 kHz
#VBW	100 kHz
Span	80 MHz
#Sweep	5 s
Occupied Bandwidth	36.283 MHz
Total Power	22.9 dBm
Transmit Freq Error	-2.993 kHz
OBW Power	99.00 %
x dB Bandwidth	35.75 MHz
x dB	-6.00 dB
Freq Offset	0 Hz

[illegible]

Conducted Spurs Delta, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**Conducted Spurs Delta, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

Conducted Spurs Delta, 5785 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs Delta, 5785 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Conducted Spurs Delta, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Conducted Spurs Delta, 5785 / 5805 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Spurs Delta, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs Delta, 5825 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Bandedge

15.247: In any 100 kHz bandwidth outside the frequency band in which the digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

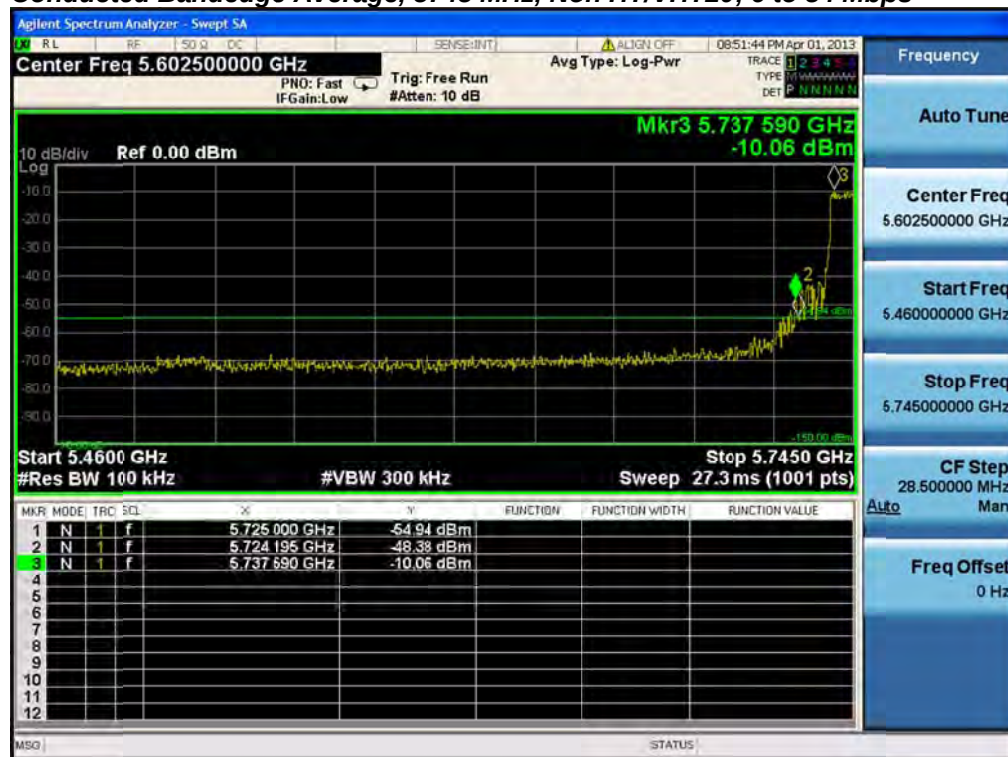
Span:	30 MHz-26 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5s
Resolution Bandwidth:	100 kHz
Video Bandwidth:	300 kHz
Detector:	Peak
Trace:	Single
Marker:	Peak

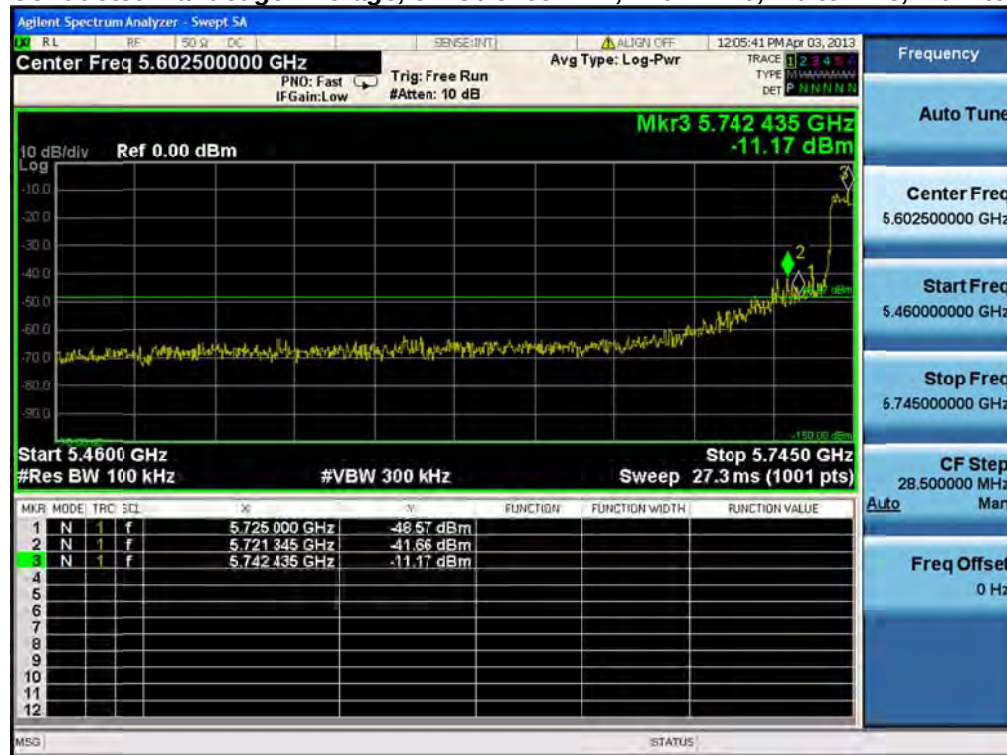
Record the marker waveform peak to spur difference

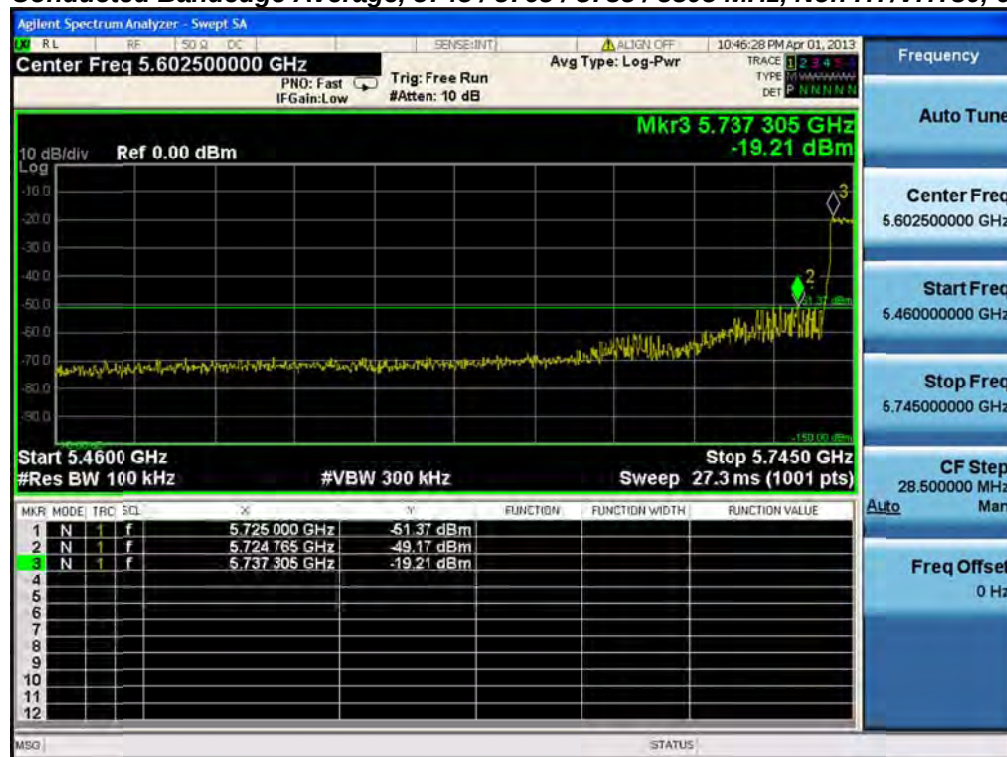
Out-of-band and spurious emissions tests are performed on each output individually without summing or adding $10 \log(N)$ since the measurements are made relative to the in-band emissions on the individual outputs. The worst case output is recorded.

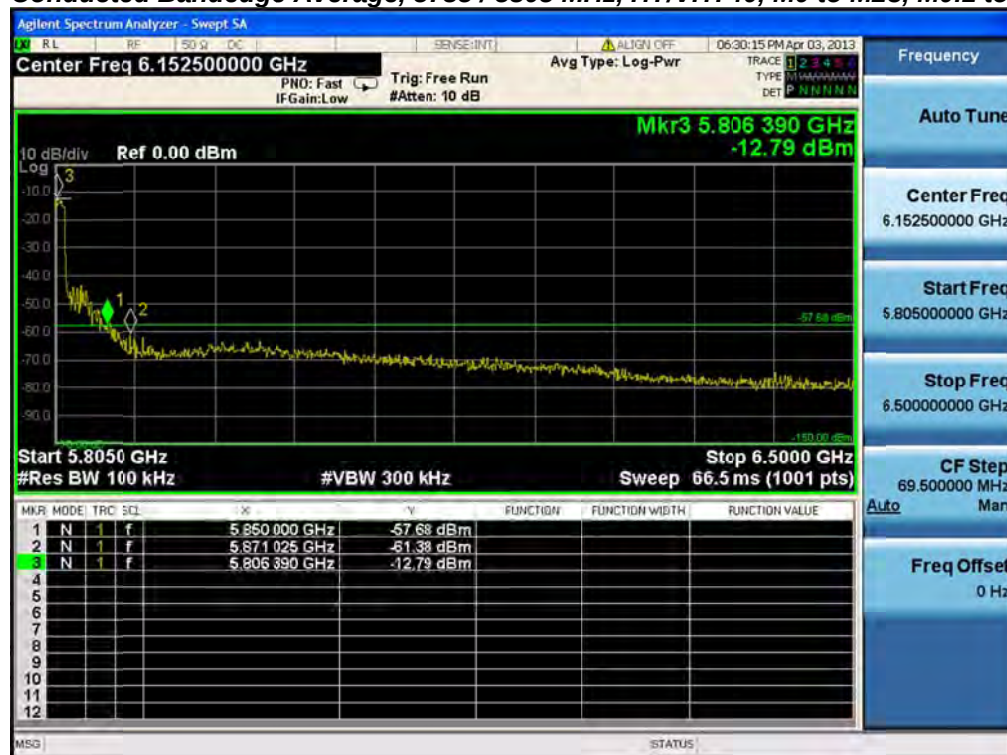


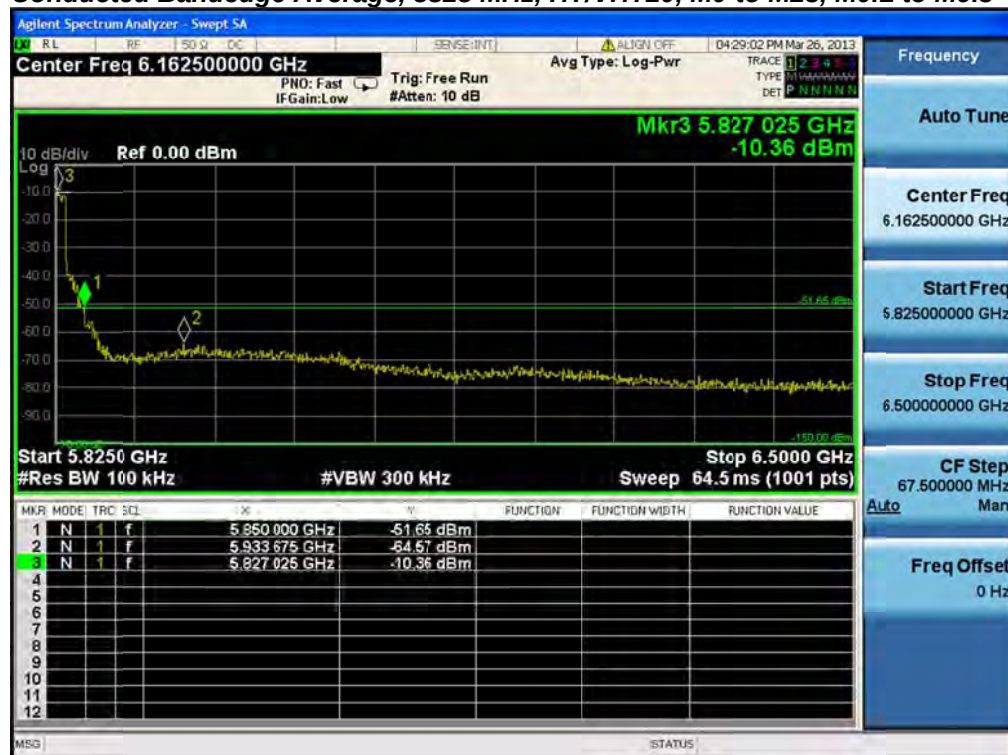
Frequency (MHz)	Mode	Tx Paths	Conducted Bandedge Delta (dB)	Limit (dB c)	Margin (dB)
5745	Non HT/VHT20, 6 to 54 Mbps	2	<u>38.3</u>	>30	8.3
	HT/VHT20, M0 to M23, M0.1 to M9.3	2	<u>41.9</u>	>30	11.9
5745/5765	Non HT/VHT40, 6 to 54 Mbps	1	<u>30</u>	>30	0
	HT/VHT40, M0 to M23, M0.1 to M9.3	2	<u>30.5</u>	>30	0.5
5745/5765 5785/5805	Non HT/VHT80, 6 to 54 Mbps	1	<u>30</u>	>30	0
	HT/VHT80, M0 to M23, M0.1 to M9.3	1	<u>32.7</u>	>30	2.7
5785/5805	Non HT/VHT40, 6 to 54 Mbps	3	<u>36.4</u>	>30	6.4
	HT/VHT40, M0 to M23, M0.1 to M9.3	1	<u>44.9</u>	>30	14.9
5825	Non HT/VHT20, 6 to 54 Mbps	2	<u>48</u>	>30	18
	HT/VHT20, M0 to M23, M0.1 to M9.3	2	<u>41.3</u>	>30	11.3

Conducted Bandedge Average, 5745 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Bandedge Average, 5745 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5745 / 5765 MHz, Non HT/VHT40, 6 to 54 Mbps**Conducted Bandedge Average, 5745 / 5765 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5745 / 5765 / 5785 / 5805 MHz, Non HT/VHT80, 6 to 54 Mbps**Conducted Bandedge Average, 5745 / 5765 / 5785 / 5805 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5785 / 5805 MHz, Non HT/VHT40, 6 to 54 Mbps**Conducted Bandedge Average, 5785 / 5805 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5825 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Bandedge Average, 5825 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Test Setup Photo



Appendix B: Emission Test Results

Testing Laboratory: Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134, USA

Radiated Spurious Emissions

15.205 / RSS-210 2.7: 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)).

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:	1 MHz for peak, 10 Hz 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.

Frequency (MHz)	Mode	Data Rate (Mbps)	Spurious Emission Level (dBuV/m)	Limit (dBuV/m)
5745	Non HT-20, 6 to 54 Mbps	6	<54	54
	Non HT-20 Beam Forming, 6 to 54 Mbps	6	<54	54
	HT-20, M0 to M23	m0	<54	54
	HT-20 STBC, M0 to M7	m0	<54	54
	HT-20 Beam Forming, M0 to M23	m0	<54	54
5785	Non HT-20, 6 to 54 Mbps	6	<54	54
	Non HT-20 Beam Forming, 6 to 54 Mbps	6	<54	54
	HT-20, M0 to M23	m0	<54	54
	HT-20 STBC, M0 to M7	m0	<54	54
	HT-20 Beam Forming, M0 to M23	m0	<54	54
5825	Non HT-20, 6 to 54 Mbps	6	<54	54
	Non HT-20 Beam Forming, 6 to 54 Mbps	6	<54	54
	HT-20, M0 to M23	m0	<54	54
	HT-20 STBC, M0 to M7	m0	<54	54
	HT-20 Beam Forming, M0 to M23	m0	<54	54

Radiated Transmitter Spurs, 5745 MHz, All Rates, All Modes, Average



Radiated Transmitter Spurs, 5785 MHz, All Rates, All Modes, Average



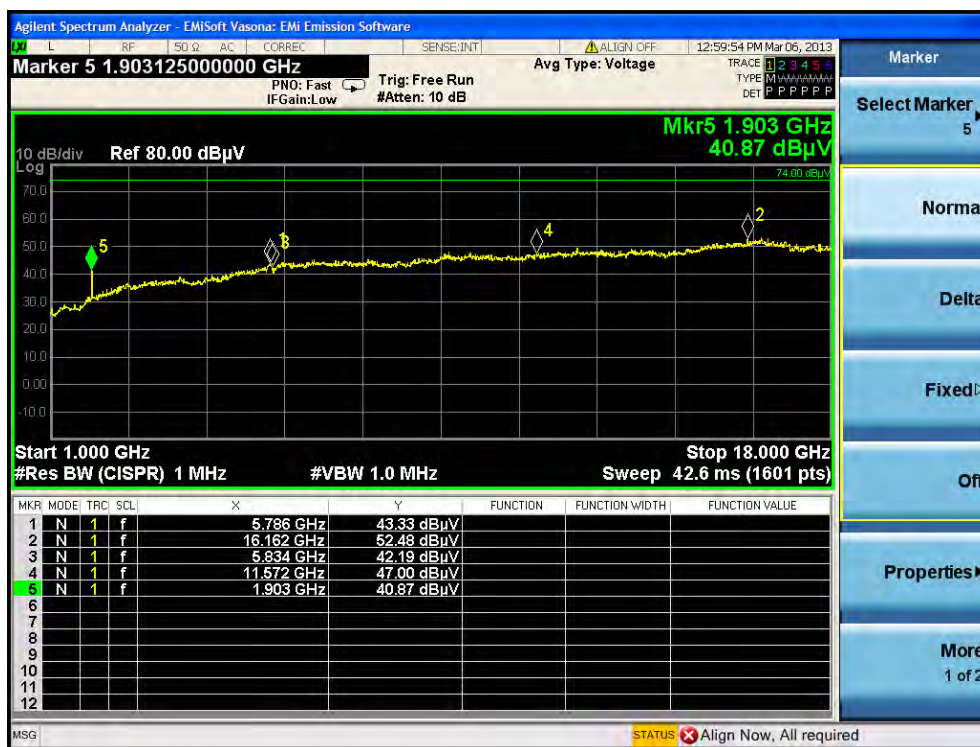
Radiated Transmitter Spurs, 5825 MHz, All Rates, All Modes, Average



Radiated Transmitter Spurs, 5745 MHz, All Rates, All Modes, Peak



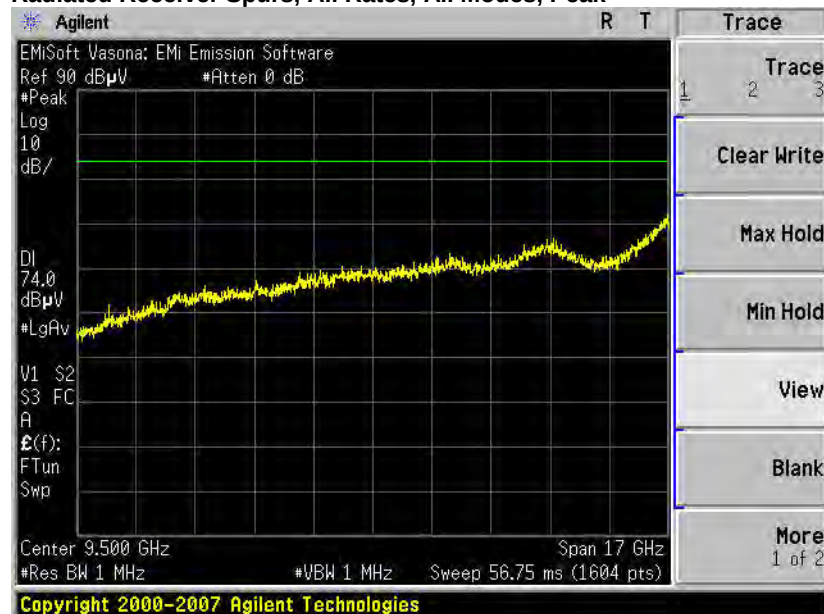
Radiated Transmitter Spurs, 5785 MHz, All Rates, All Modes, Peak

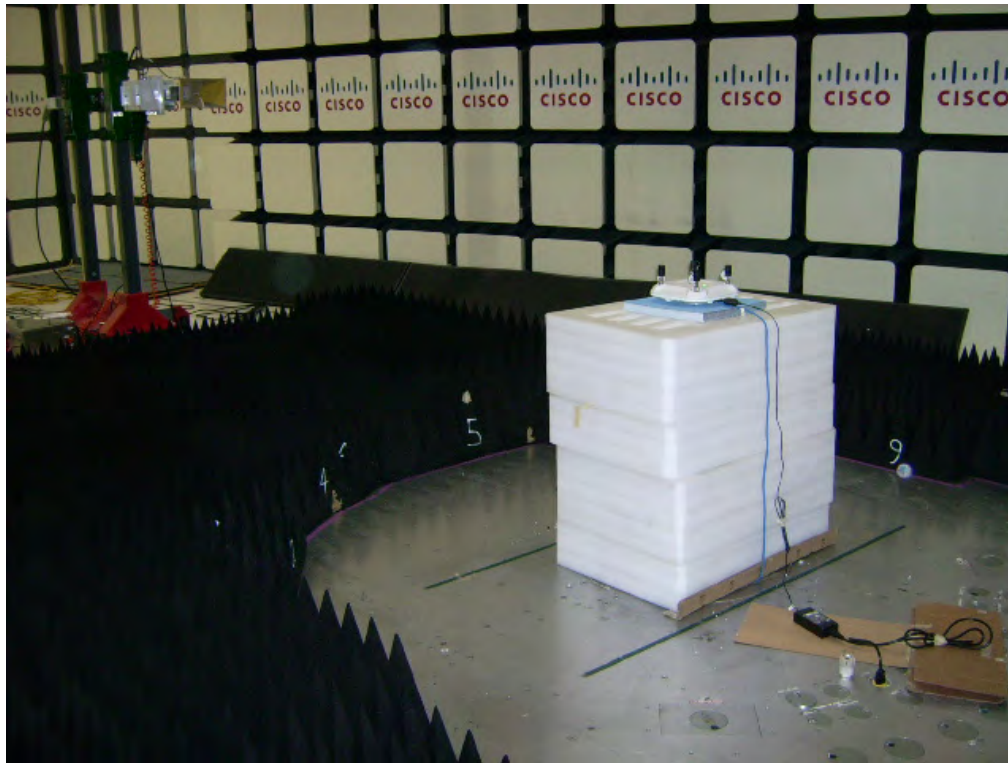


Radiated Transmitter Spurs, 5825 MHz, All Rates, All Modes, Peak



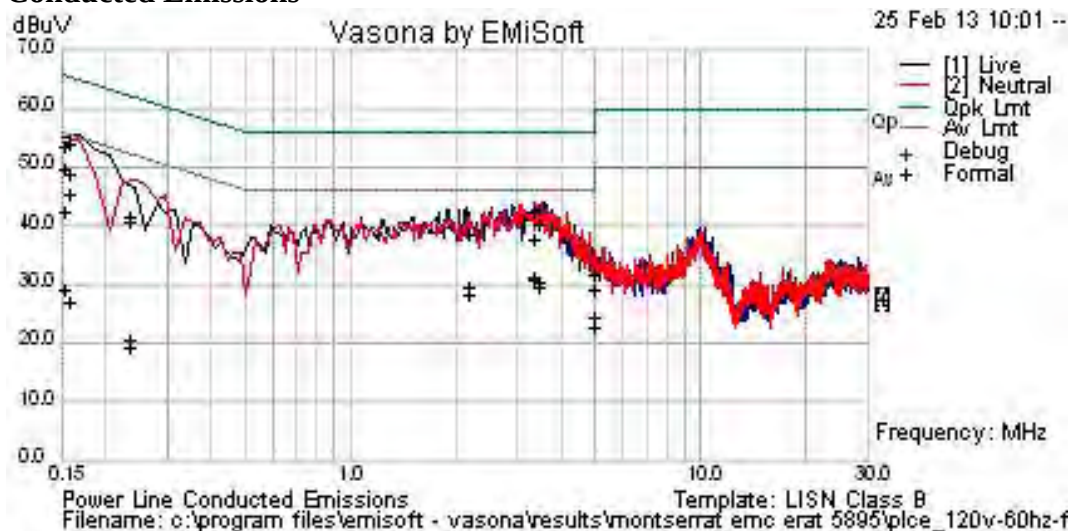
Receiver Radiated Spurious Emissions

Radiated Receiver Spurs, All Rates, All Modes, Average**Radiated Receiver Spurs, All Rates, All Modes, Peak**



Radiated Test Setup Photo

Conducted Emissions



Test Results Table

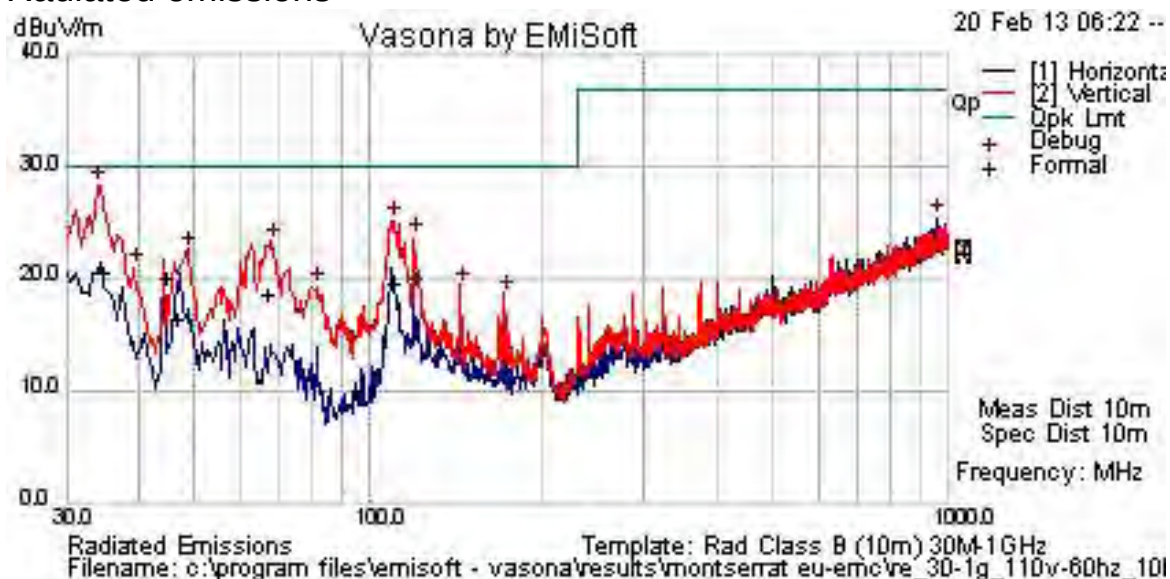
Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail	Comments
0.15736	24	21.3	0.1	45.4	Av	N	55.6	-10.2	Pass	
0.15736	32.8	21.3	0.1	54.2	Qp	N	65.6	-11.4	Pass	
0.15288	32	21.4	0.1	53.5	Qp	N	65.8	-12.4	Pass	
3.424	22.7	20	0	42.8	Qp	N	56	-13.2	Pass	
0.15288	21	21.4	0.1	42.4	Av	L	55.8	-13.4	Pass	
3.351	22.5	20	0.1	42.6	Qp	N	56	-13.4	Pass	
3.351	11.1	20	0.1	31.2	Av	N	46	-14.8	Pass	
3.351	10.9	20	0.1	30.9	Av	L	46	-15.1	Pass	
3.424	20.3	20	0	40.3	Qp	L	56	-15.7	Pass	
3.424	10.2	20	0	30.3	Av	N	46	-15.7	Pass	
0.15288	28.1	21.4	0.1	49.6	Qp	L	65.8	-16.3	Pass	
3.424	9.4	20	0	29.5	Av	L	46	-16.5	Pass	
2.158	9.4	20	0	29.5	Av	N	46	-16.5	Pass	
0.15736	27.5	21.3	0.1	48.9	Qp	L	65.6	-16.7	Pass	
2.158	18.6	20	0	38.7	Qp	N	56	-17.3	Pass	
2.158	18.6	20	0	38.6	Qp	L	56	-17.4	Pass	
2.158	8.5	20	0	28.5	Av	L	46	-17.5	Pass	
3.351	17.6	20	0.1	37.6	Qp	L	56	-18.4	Pass	
0.23346	20.6	20.9	0	41.5	Qp	L	62.3	-20.8	Pass	
0.23346	19.8	20.9	0	40.7	Qp	N	62.3	-21.6	Pass	
4.916	4.3	20	0	24.4	Av	N	46	-21.6	Pass	
4.916	2.5	20	0	22.6	Av	L	46	-23.4	Pass	

Frequency MHz	Raw dBuV	Cable Loss	Factors dB	Level dBuV	Measurement Type	Line	Limit dBuV	Margin dB	Pass /Fail	Comments
4.916	11.8	20	0	31.9	Qp	N	56	-24.1	Pass	
0.15288	7.8	21.4	0.1	29.2	Av	N	55.8	-26.6	Pass	
4.916	9	20	0	29.1	Qp	L	56	-26.9	Pass	
0.15736	5.7	21.3	0.1	27.1	Av	L	55.6	-28.5	Pass	
0.23346	-0.1	20.9	0	20.8	Av	N	52.3	-31.6	Pass	
0.23346	-1.5	20.9	0	19.4	Av	L	52.3	-32.9	Pass	

**Title:** Power Line Conducted Emissions Test Setup



Radiated emissions



Test Results Table

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	Comments
34.65	30.1	0.6	-10.1	20.6	Qp	V	124	218	30	-9.4	Pass	
44.239	36.6	0.7	-17.2	20.2	Qp	V	198	221	30	-9.8	Pass	
120.013	32.5	1.2	-13.6	20.2	Qp	V	135	87	30	-9.8	Pass	
110.373	33.2	1.2	-14.7	19.7	Qp	V	131	175	30	-10.3	Pass	
66.612	37.4	1	-19.7	18.6	Qp	V	102	271	30	-11.4	Pass	
46.154	33.9	0.7	-18.3	16.3	Qp	V	254	195	30	-13.7	Pass	



Title: Radiated Emissions 10m Test Distance

Maximum Permissible Exposure (MPE) Calculations

15.247: U-NII devices are subject to the radio frequency radiation exposure requirements specified in Sec. 1.1307(b), Sec. 2.1091 and Sec. 2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment. Applications for equipment authorization of devices operating under this section must contain a statement confirming compliance with these requirements for both fundamental emissions and unwanted emissions. Technical information showing the basis for this statement must be submitted to the Commission upon request.

Given

$$E = \sqrt{(30 \cdot P \cdot G)/d} \quad \text{and} \quad S = E^2/3770$$

where

E=Field Strength in Volts/meter

P=Power in Watts

G=Numeric Antenna Gain

d=Distance in meters

S=Power Density in mW/cm²

Combine equations and rearrange the terms to express the distance as a function of the remaining variables:

$$d = \sqrt{((30 \cdot P \cdot G)/(3770 \cdot S))}$$

Changing to units of power in mW and distance in cm, using:

$$P(\text{mW}) = P(\text{W})/1000 \quad d(\text{cm}) = 100 \cdot d(\text{m})$$

yields

$$d = 100 \cdot \sqrt{((30 \cdot (P/1000) \cdot G)/(3770 \cdot S))}$$

$$d = 0.282 \cdot \sqrt{(P \cdot G/S)}$$

where

d=Distance in cm

P=Power in mW

G=Numerica Antenna Gain

S=Power Density in mW/cm²

Substituting the logarithmic form of power and gain using:

$$P(\text{mW}) = 10^{(P(\text{dBm})/10)} \quad G(\text{numeric}) = 10^{(G(\text{dBi})/10)}$$

yields

$$d = 0.282 \cdot 10^{((P+G)/20)} / \sqrt{S} \quad \text{Equation (1)}$$

and

$$S = ((0.282 \cdot 10^{((P+G)/20)})/d)^2 \quad \text{Equation (2)}$$

where

d=MPE distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density in mW/cm²



Equation (1) and the measured peak power are used to calculate the MPE distance. Note that for mobile or fixed location transmitters such as an access point, the minimum separation distance is 20 cm even if the calculations indicate that the MPE distance may be less.

$S=1\text{mW/cm}^2$ maximum. The highest supported antenna gain is 6 dBi (9dBi with beamforming). Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

Frequency (MHz)	Power Density (mW/cm ²)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	MPE Distance (cm)	Limit (cm)	Margin (cm)
5745	1	23.0	12	15.86	20	4.14
5785	1	23.0	12	15.86	20	4.14
5825	1	23.0	12	15.86	20	4.14

MPE Calculations

To maintain compliance, installations will assure a separation distance of at least 20cm.

Using Equation 2, the MPE levels (s) at 20 cm are calculated as follows:

Frequency (MHz)	MPE Distance (cm)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Margin (mW/cm ²)
5745	20	23.0	12	0.63	1	0.37
5785	20	23.0	12	0.63	1	0.37
5825	20	23.0	12	0.63	1	0.37

**Appendix C: Test Equipment/Software Used to perform the test**

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS004882	EMC Test Systems	3115	Double Ridged Guide Horn Antenna	04-Jun-12	04-Jun-13
CIS004927	Miteq	NSP1000-S1	Broadband Preamplifier	01-Feb-13	01-Feb-14
CIS007704	Fischer	FCC-LISN-50/250-50-2-01	LISN	11-May-12	11-May-13
CIS021117	Micro-Coax	UFB311A-0-2484-520520	RF Coaxial Cable, to 18GHz, 248.4 in	24-Aug-12	24-Aug-13
CIS030564	Micro-Coax	UFB311A-1-0950-504504	RF Coaxial Cable, to 18GHz, 95 in	24-Aug-12	24-Aug-13
CIS030652	Sunol Sciences	JB1	Combination Antenna, 30MHz-2GHz	04-Sep-12	04-Sep-13
CIS044940	Rohde & Schwarz	ESU40	EMI Test Receiver	08-May-12	08-May-13
CIS018313	HP	8447D	RF Preamplifier	08-Jan-13	08-Jan-14
CIS043116	Huber + Suhner	Sucoflex 104PE	N & SMA RF cable	14-Dec-12	14-Dec-13
CIS049381	Agilent	N9030A	Spectrum Analyzer	28-Aug-12	28-Aug-13