



Test Report

AIR-CAP3702P-A-K9

Cisco Aironet 802.11ac Dual Band Access Points

FCC ID: LDK102087P

IC: 2461B-102087P

Also covers:

AIR-CAP3702P-D-K9,

AIR-CAP3702P-N-K9,

AIR-CAP3702P-Z-K9,

5470-5725 MHz

Against the following Specifications:

CFR47 Part 15.407

RSS210

Cisco Systems

170 West Tasman Drive

San Jose, CA 95134



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SECTION 1: OVERVIEW	3
1.1 TEST SUMMARY	3
SECTION 2: ASSESSMENT INFORMATION	4
2.1 GENERAL	4
2.2 DATE OF TESTING.....	5
2.3 REPORT ISSUE DATE	5
2.4 TESTING FACILITIES	5
2.5 EQUIPMENT ASSESSED (EUT).....	5
2.6 EUT DESCRIPTION	6
THE FOLLOWING ANTENNAS ARE SUPPORTED BY THIS PRODUCT SERIES.....	7
SECTION 4: SAMPLE DETAILS.....	8
APPENDIX A: EMISSION TEST RESULTS.....	9
TARGET MAXIMUM CHANNEL POWER	9
99% AND 26dB BANDWIDTH.....	10
PEAK OUTPUT POWER	17
POWER SPECTRAL DENSITY	17
CONDUCTED SPURIOUS EMISSIONS	182
CONDUCTED BANDEDGE	190
20dB BANDWIDTH	197
MAXIMUM PERMISSIBLE EXPOSURE (MPE) CALCULATIONS.....	201
APPENDIX C: TEST EQUIPMENT/SOFTWARE USED TO PERFORM THE TEST	203

Section 1: Overview

1.1 Test Summary

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

Emission	Immunity
CFR47 Part 15.407 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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22.2 Date of testing

22-May-2013 to 5-June-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-SAP3702P-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 antennas in **bold** below.

Part Number	Antenna Type	Antenna Gain (dBi)
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-ANT2544V4M-R	Dual-resonant omni (4-pack)	4 / 4
AIR-ANT2566P4W-R	Dual-resonant "directional" antenna (4-pack)	6 / 6
AIR-ANT2513P4M-N	Dual-resonant cross-pol "directional" antenna (4-pack)	13 / 13
AIR-ANT2534V4C-R	Dual-resonant ceiling mount omni (4-pack)	3 / 4



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-SAP3702P-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)		
	5500	5560	5700
Non HT-20, 6 to 54 Mbps	19	19	19
Non HT-20 Beam Forming, 6 to 54 Mbps	19	19	19
HT-20, M0 to M23, M0.1 to M9.3	21	21	21
HT-20 STBC, M0 to M7, M0.1 to M9.1	21	21	21
HT-20 Beam Forming, M0 to M23, M0.1 to M9.3	21	21	21
	5500/5520	5540/5560	
Non HT-40 Duplicate, 6 to 54 Mbps	19	21	
HT-40, M0 to M23, M0.1 to M9.3	21	23	
HT-40 STBC, M0 to M7, M0.1 to M9.1	21	23	
HT-40 Beam Forming, M0 to M23, M0.1 to M9.3	20	22	
	5500/5520/5540/5560		
Non HT-80 Duplicate, 6 to 54 Mbps	20		
HT-80, M0 to M23, M0.1 to M9.3	22		
HT-80 STBC, M0 to M7, M0.1 to M9.1	22		
HT-80 Beam Forming, M0 to M23, M0.1 to M9.3	20		



99% and 26dB Bandwidth

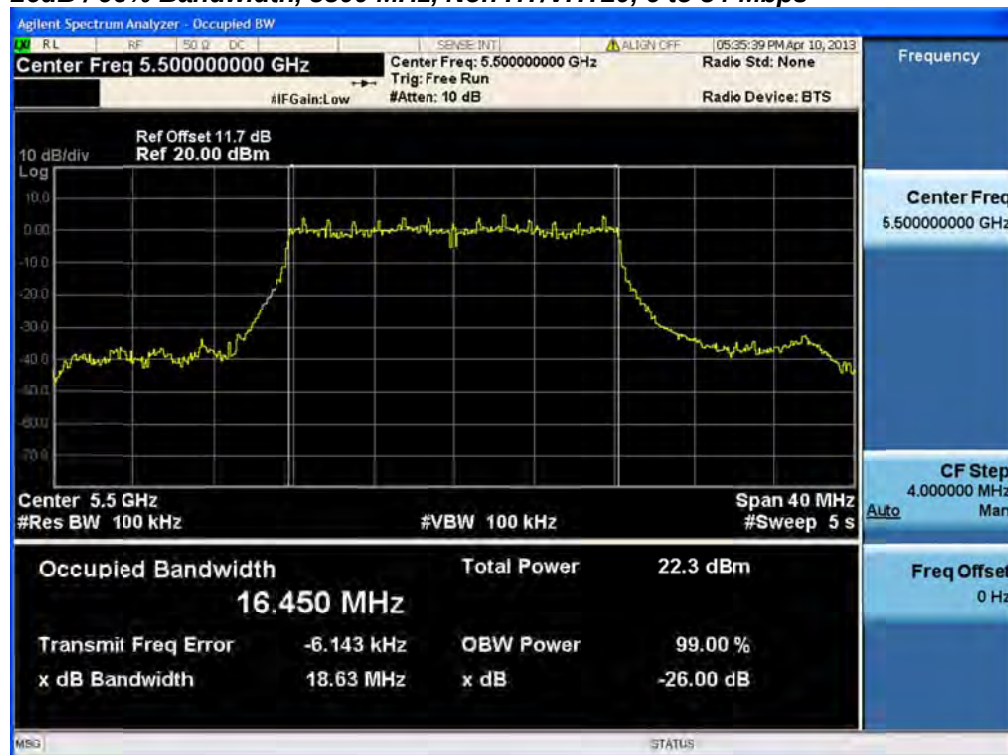
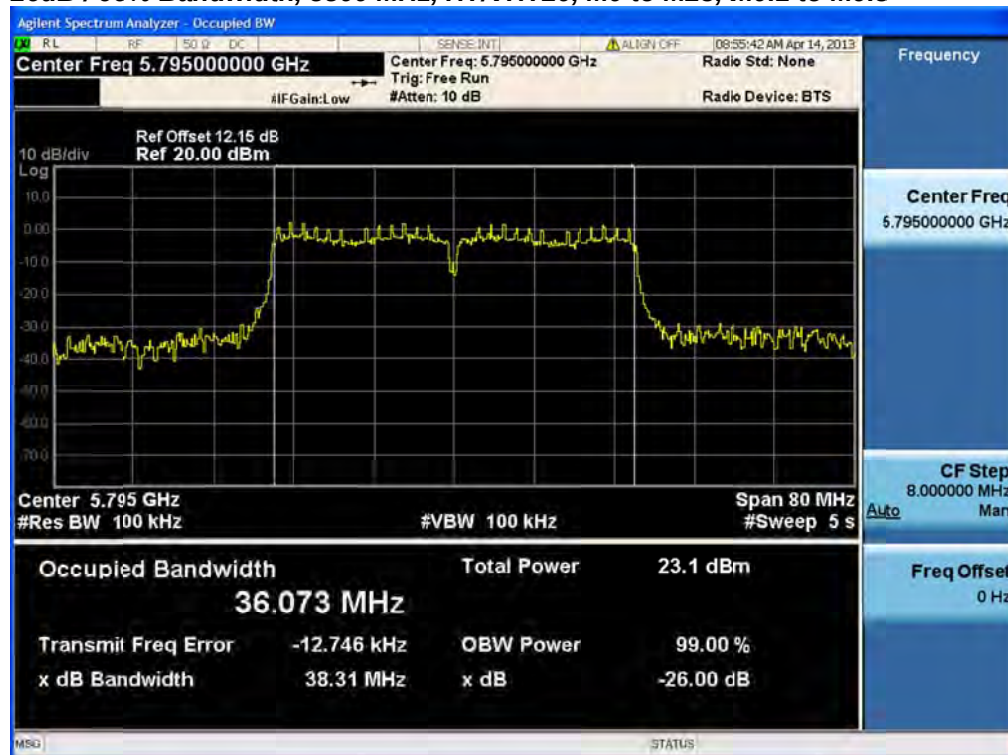
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

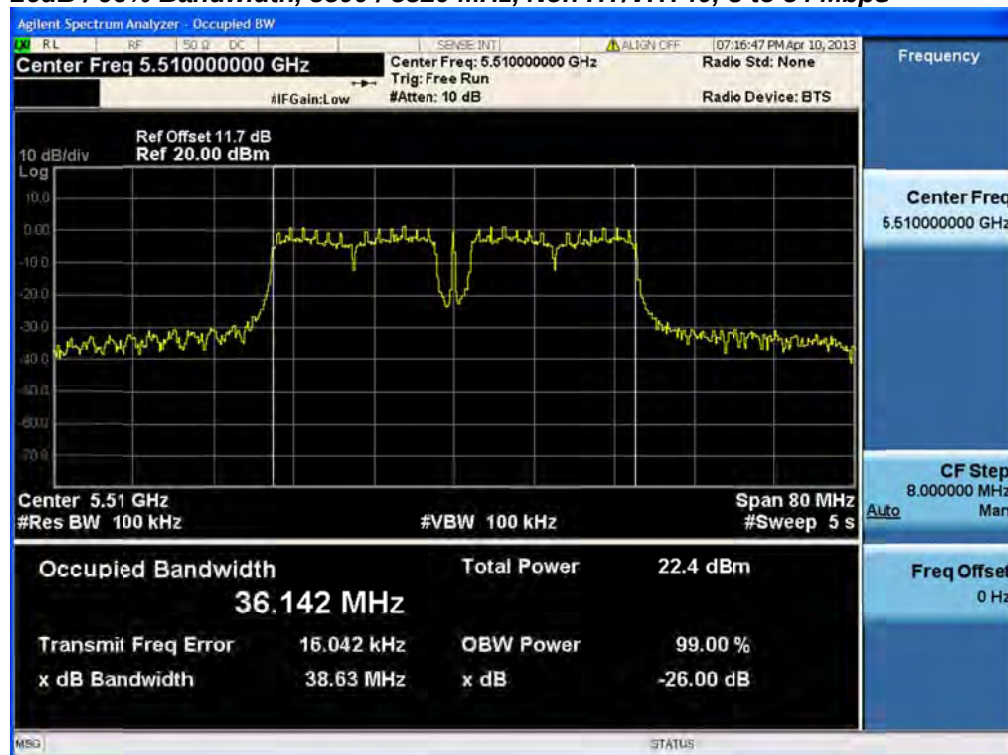
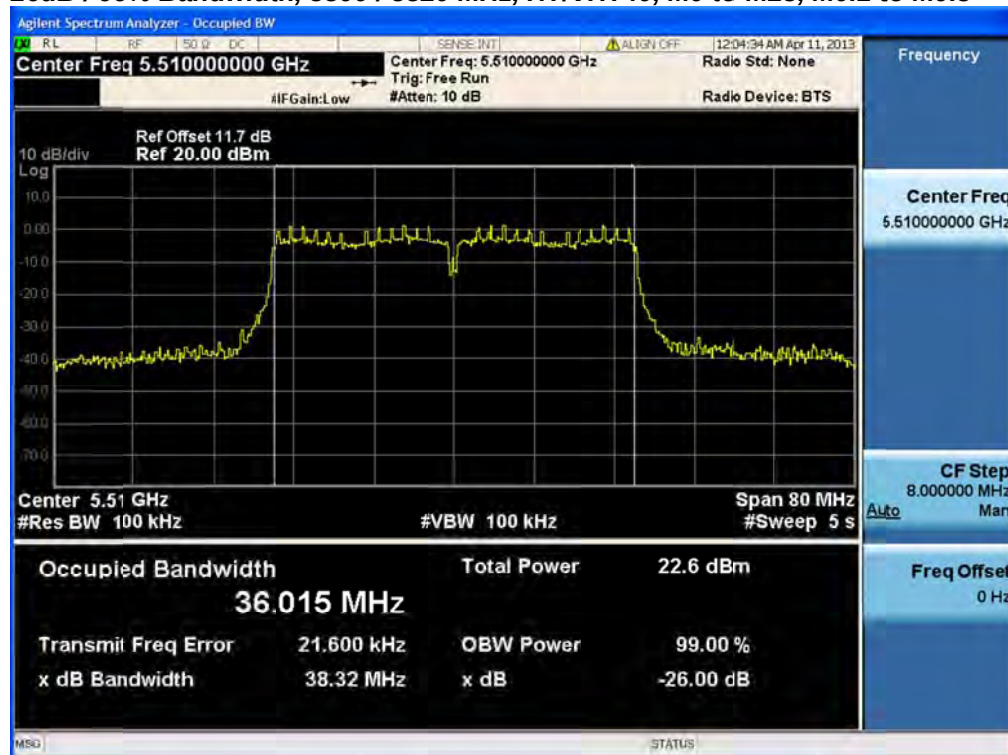
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	1%-3% of 26 dB Bandwidth
Video Bandwidth:	≥Resolution Bandwidth
X dB Bandwidth:	26 dB
Detector:	Peak
Trace:	Single

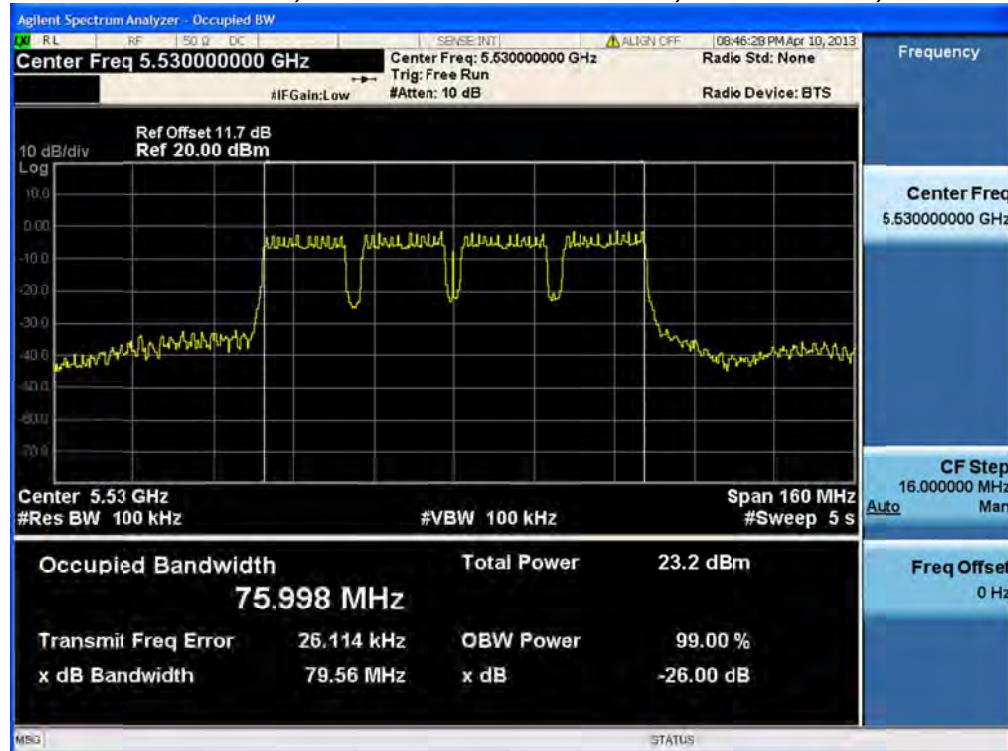
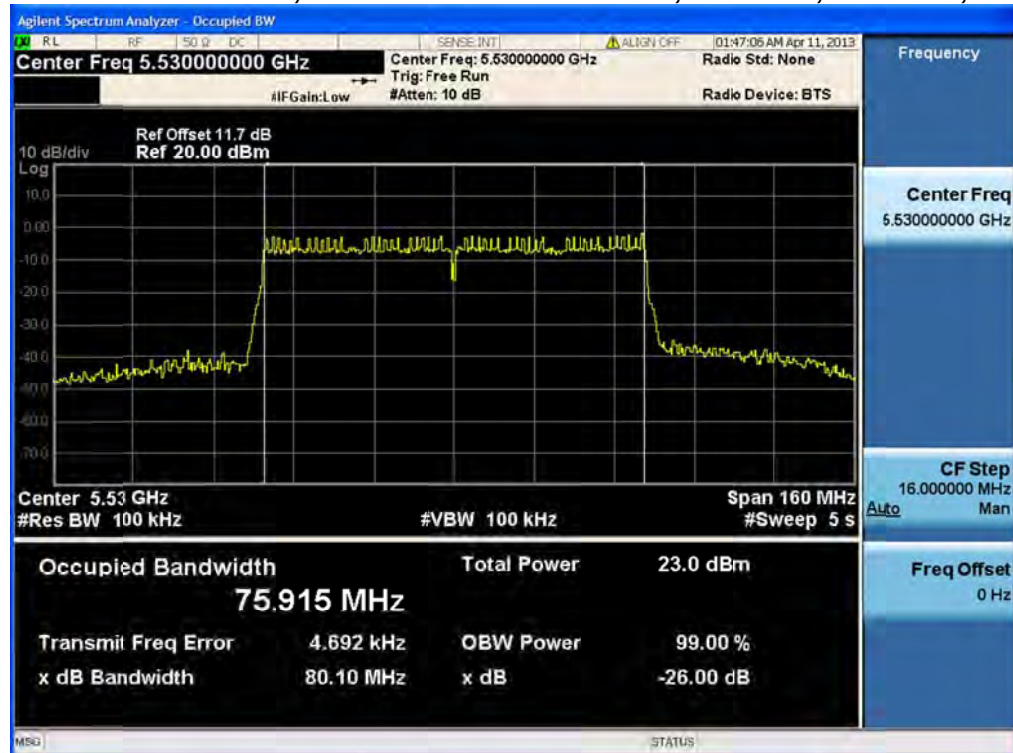
Place the radio in continuous transmit mode. View the transmitter waveform on the spectrum analyzer, and record the pertinent measurements:

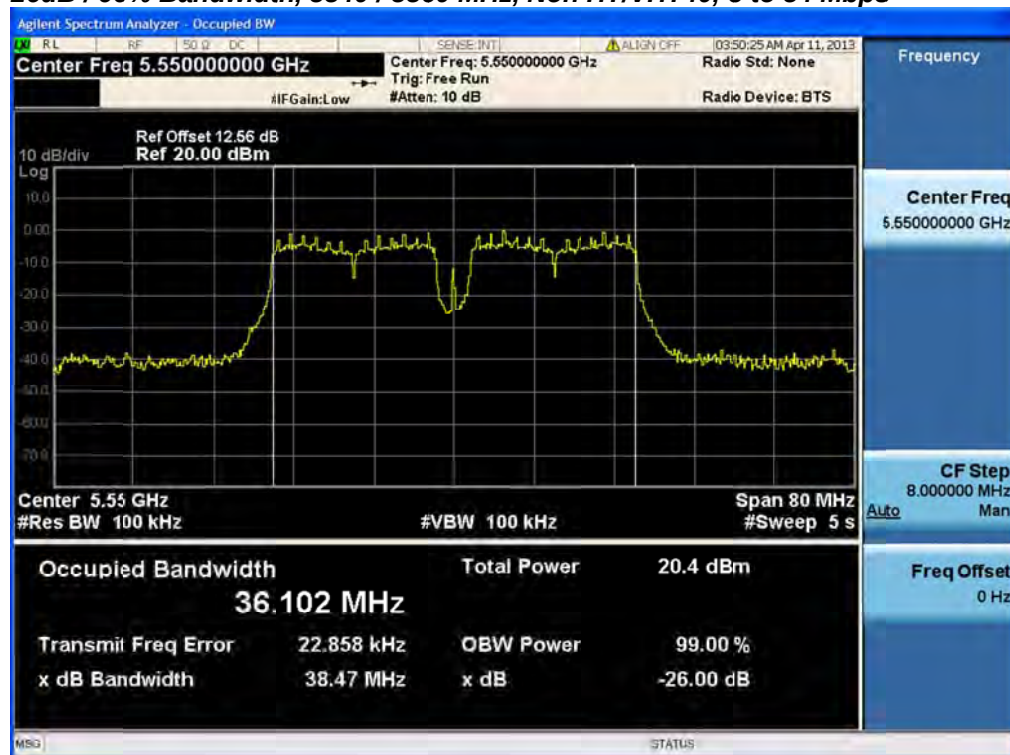
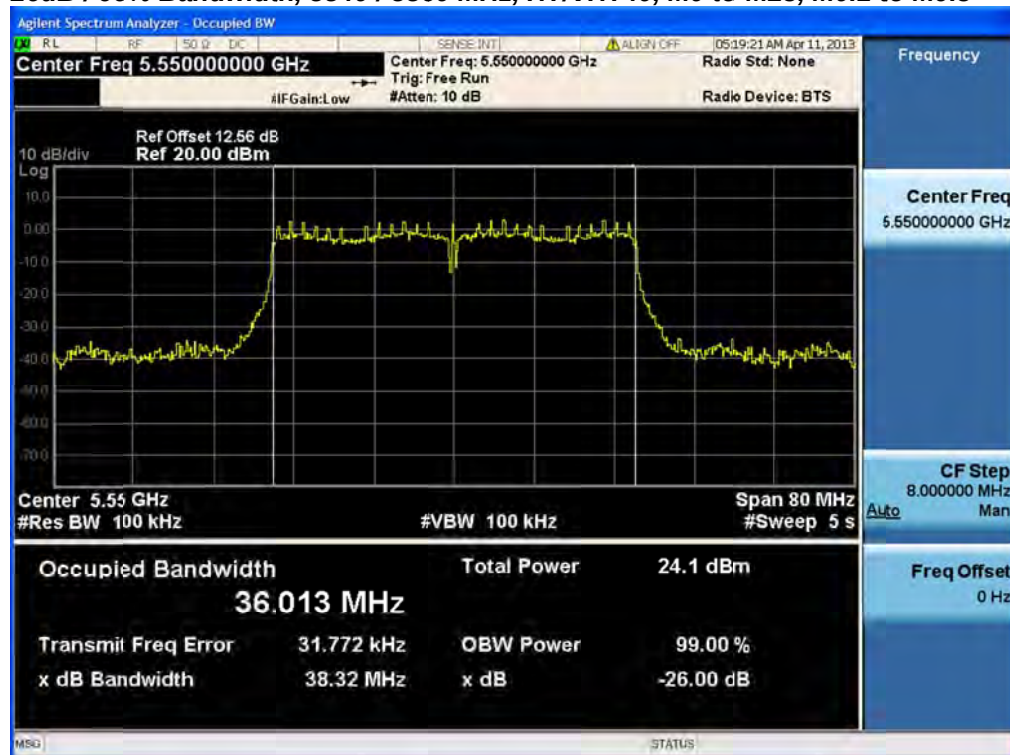


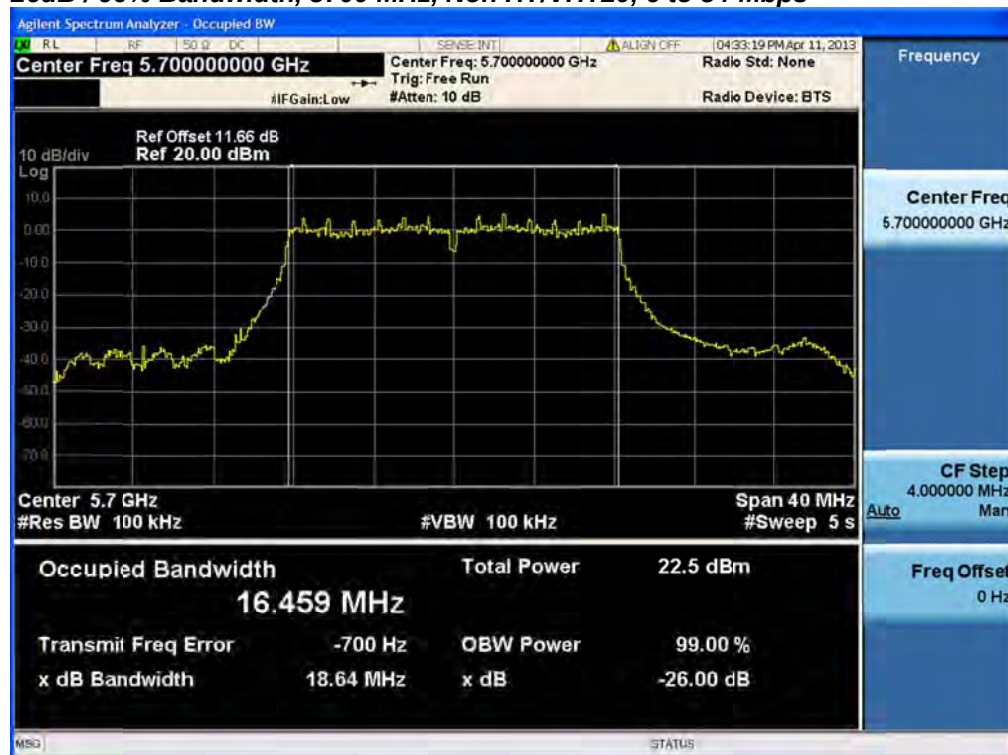
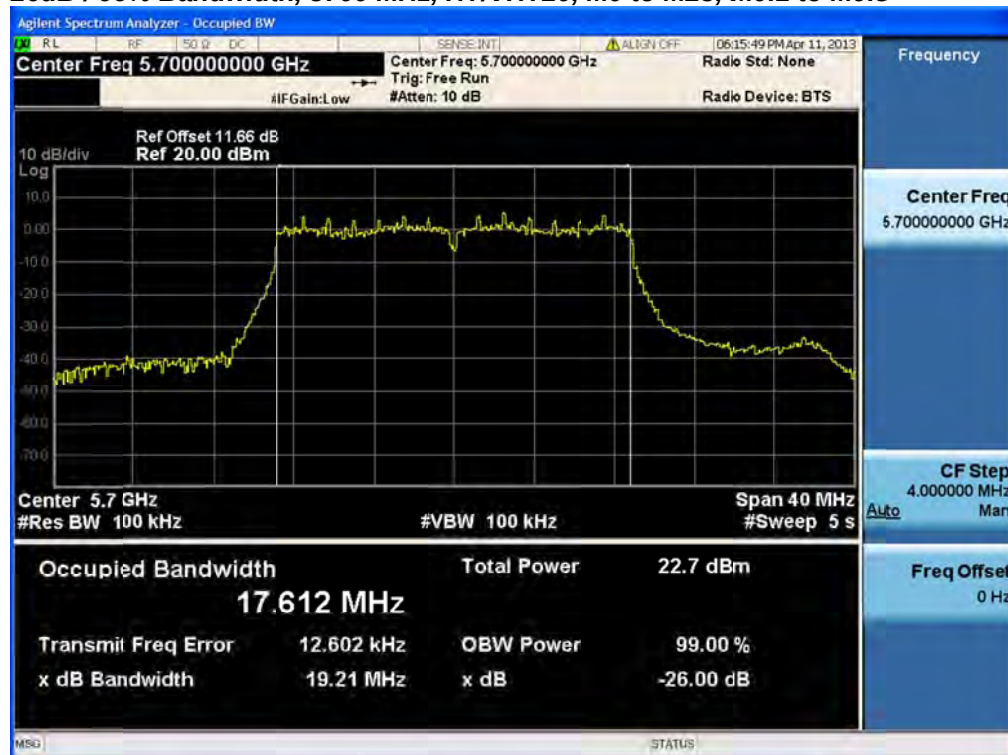
Frequency (MHz)	Mode	Data Rate (Mbps)	26dB BW (MHz)	99% BW (MHz)
5500	Non HT/VHT20, 6 to 54 Mbps	6	<u>18.6</u>	<u>16.4</u>
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>19.4</u>	17.6
5500/5520	Non HT/VHT40, 6 to 54 Mbps	6	<u>38.6</u>	36.1
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>38.3</u>	36
5500/5520 5540/5560	Non HT/VHT80, 6 to 54 Mbps	6	<u>79.5</u>	75.9
	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>80.1</u>	75.9
5540/5560	Non HT/VHT40, 6 to 54 Mbps	6	<u>38.5</u>	36.1
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>38.3</u>	36
5700	Non HT/VHT20, 6 to 54 Mbps	6	<u>18.6</u>	<u>16.4</u>
	HT/VHT20, M0 to M23, M0.1 to M9.3	m0	<u>19.2</u>	17.6

26dB / 99% Bandwidth, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps**26dB / 99% Bandwidth, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**26dB / 99% Bandwidth, 5500 / 5520 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**26dB / 99% Bandwidth, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps**26dB / 99% Bandwidth, 5540 / 5560 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

26dB / 99% Bandwidth, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**26dB / 99% Bandwidth, 5700 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Peak Output Power

15.407: For the bands 5.25-5.35 and 5.47-5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26-dB emission bandwidth in MHz. 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 smallest 26dB bandwidth for all channels is 18.6 MHz. The maximum conducted output power is calculated as $4\text{dBm} + 10 \cdot \log(18.6\text{MHz}) = 16.7\text{dBm}$

The maximum supported antenna gain for all bands is 4dBi. 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.

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.

Power Spectral Density

15.407: For the bands 5.25-5.35 and 5.47-5.725 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The maximum supported antenna gain is 4dBi. 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.

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.



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:	=99% BW from 99% Bandwidth Data

After averaging 100 traces of the transmitter waveform on the spectrum analyzer, record the spectrum analyzer Channel Power. Perform a Marker Peak Search function, and record this value as the Power Spectral Density.



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)
5500	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>15.5</u>				15.5	23.72	8.2
	Non HT/VHT20, 6 to 54 Mbps	2	4	<u>15.5</u>	<u>15.7</u>			18.6	23.7	5.1
	Non HT/VHT20, 6 to 54 Mbps	3	4	<u>13.5</u>	<u>13.6</u>	<u>14.0</u>		18.5	23.7	5.2
	Non HT/VHT20, 6 to 54 Mbps	4	4	<u>10.9</u>	<u>10.5</u>	<u>11.0</u>	<u>11.1</u>	16.9	23.7	6.8
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>15.5</u>	<u>15.7</u>			18.6	22.7	4.1
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>11.9</u>	<u>11.5</u>	<u>12.0</u>		16.6	20.92	4.3
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>10.0</u>	<u>9.6</u>	<u>10.0</u>	<u>10.4</u>	16.0	19.72	3.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>15.6</u>				15.6	23.88	8.3
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	4	<u>15.6</u>	<u>16.0</u>			18.8	23.88	5.1
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>15.6</u>	<u>16.0</u>			18.8	23.88	5.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	4	<u>13.5</u>	<u>13.7</u>	<u>14.2</u>		18.6	23.88	5.3
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	4	<u>15.6</u>	<u>16.0</u>	<u>16.6</u>		20.9	23.88	3.0
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>15.6</u>	<u>16.0</u>	<u>16.6</u>		20.9	23.88	3.0
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	4	<u>11.0</u>	<u>10.5</u>	<u>10.9</u>	<u>11.1</u>	16.9	23.86	7.0
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	4	<u>13.5</u>	<u>13.7</u>	<u>14.2</u>	<u>14.0</u>	19.9	23.88	4.0
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	4	<u>14.6</u>	<u>14.8</u>	<u>15.3</u>	<u>15.1</u>	21.0	23.86	2.9
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>15.6</u>	<u>16.0</u>			18.8	22.88	4.1
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>15.6</u>	<u>16.0</u>			18.8	23.88	5.1
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>11.8</u>	<u>11.5</u>	<u>12.0</u>		16.5	21.06	4.5
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>14.6</u>	<u>14.8</u>	<u>15.3</u>		19.7	23.86	4.2
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>15.6</u>	<u>16.0</u>	<u>16.6</u>		20.9	23.88	3.0
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>10.0</u>	<u>9.5</u>	<u>9.9</u>	<u>10.2</u>	15.9	19.88	4.0
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>12.6</u>	<u>12.6</u>	<u>13.0</u>	<u>13.1</u>	18.9	22.86	4.0
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>14.6</u>	<u>14.8</u>	<u>15.3</u>	<u>15.1</u>	21.0	23.86	2.9
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>15.6</u>	<u>16.0</u>			18.8	23.88	5.1
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>15.6</u>	<u>16.0</u>	<u>16.6</u>		20.9	23.88	3.0
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>13.5</u>	<u>13.7</u>	<u>14.2</u>	<u>14.0</u>	19.9	23.88	4.0



5500/5520	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>16.3</u>				16.3	24	7.7
	Non HT/VHT40, 6 to 54 Mbps	2	4	<u>16.3</u>	<u>16.6</u>			19.5	24	4.5
	Non HT/VHT40, 6 to 54 Mbps	3	4	<u>14.1</u>	<u>14.1</u>	<u>14.5</u>		19.0	24	5.0
	Non HT/VHT40, 6 to 54 Mbps	4	4	<u>13.1</u>	<u>12.9</u>	<u>13.4</u>	<u>13.4</u>	19.2	24	4.8
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	4	<u>15.3</u>				15.3	24	8.7
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	4	<u>14.5</u>	<u>14.6</u>			17.6	24	6.4
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	4	<u>14.5</u>	<u>14.6</u>			17.6	24	6.4
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>		19.5	24	4.5
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>		19.5	24	4.5
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>		19.5	24	4.5
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	4	<u>13.6</u>	<u>13.4</u>	<u>14.1</u>	<u>13.9</u>	19.8	24	4.2
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>	<u>15.0</u>	20.8	24	3.2
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>	<u>15.0</u>	20.8	24	3.2
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>14.5</u>	<u>14.6</u>			17.6	23	5.4
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>14.5</u>	<u>14.6</u>			17.6	24	6.4
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>11.5</u>	<u>11.4</u>	<u>11.6</u>		16.3	21.2	4.9
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>13.6</u>	<u>13.4</u>	<u>14.1</u>		18.5	24	5.5
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>		19.5	24	4.5
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>10.0</u>	<u>9.4</u>	<u>9.5</u>	<u>10.1</u>	15.8	20	4.2
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>12.6</u>	<u>12.3</u>	<u>12.9</u>	<u>13.0</u>	18.7	23	4.3
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>13.6</u>	<u>13.4</u>	<u>14.1</u>	<u>13.9</u>	19.8	24	4.2
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>14.5</u>	<u>14.6</u>			17.6	24	6.4
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>		19.5	24	4.5
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>14.5</u>	<u>14.6</u>	<u>15.1</u>	<u>15.0</u>	20.8	24	3.2
5500/5520/5540/5560	Non HT/VHT80, 6 to 54 Mbps	1	4	<u>15.6</u>				15.6	24	8.4
	Non HT/VHT80, 6 to 54 Mbps	2	4	<u>14.7</u>	<u>14.8</u>			17.8	24	6.2
	Non HT/VHT80, 6 to 54 Mbps	3	4	<u>13.7</u>	<u>13.9</u>	<u>13.9</u>		18.6	24	5.4
	Non HT/VHT80, 6 to 54 Mbps	4	4	<u>13.7</u>	<u>13.9</u>	<u>13.9</u>	<u>14.1</u>	19.9	24	4.1
	HT/VHT80, M0 to M7, M0.1 to M9.1	1	4	<u>14.9</u>				14.9	24	9.1
	HT/VHT80, M0 to M7, M0.1 to M9.1	2	4	<u>14.9</u>	<u>15.5</u>			18.2	24	5.8
	HT/VHT80, M8 to M15, M0.2 to M9.2	2	4	<u>14.9</u>	<u>15.5</u>			18.2	24	5.8
	HT/VHT80, M0 to M7, M0.1 to M9.1	3	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>		20.2	24	3.8
	HT/VHT80, M8 to M15, M0.2 to M9.2	3	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>		20.2	24	3.8
	HT/VHT80, M16 to M23, M0.3 to M9.3	3	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>		20.2	24	3.8
	HT/VHT80, M0 to M7, M0.1 to M9.1	4	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>	<u>15.7</u>	21.5	24	2.5
	HT/VHT80, M8 to M15, M0.2 to M9.2	4	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>	<u>15.7</u>	21.5	24	2.5
	HT/VHT80, M16 to M23, M0.3 to M9.3	4	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>	<u>15.7</u>	21.5	24	2.5
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>14.9</u>	<u>15.5</u>			18.2	23	4.8
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>14.9</u>	<u>15.5</u>			18.2	24	5.8
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>11.1</u>	<u>10.9</u>	<u>11.1</u>		15.8	21.2	5.4



	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>12.8</u>	<u>13.1</u>	<u>13.4</u>		17.9	24	6.1
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>		20.2	24	3.8
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>9.5</u>	<u>8.9</u>	<u>9.0</u>	<u>9.7</u>	15.3	20	4.7
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>12.1</u>	<u>11.9</u>	<u>12.5</u>	<u>12.6</u>	18.3	23	4.7
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>12.8</u>	<u>13.1</u>	<u>13.4</u>	<u>13.6</u>	19.3	24	4.7
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>14.9</u>	<u>15.5</u>			18.2	24	5.8
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>		20.2	24	3.8
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>14.9</u>	<u>15.5</u>	<u>15.8</u>	<u>15.7</u>	21.5	24	2.5
5540/5560	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>16.4</u>				16.4	24	7.6
	Non HT/VHT40, 6 to 54 Mbps	2	4	<u>16.4</u>	<u>17.1</u>			19.8	24	4.2
	Non HT/VHT40, 6 to 54 Mbps	3	4	<u>15.4</u>	<u>16.0</u>	<u>15.9</u>		20.5	24	3.5
	Non HT/VHT40, 6 to 54 Mbps	4	4	<u>13.3</u>	<u>13.4</u>	<u>13.3</u>	<u>14.0</u>	19.5	24	4.5
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	4	<u>16.1</u>				16.1	24	7.9
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	4	<u>16.1</u>	<u>16.6</u>			19.4	24	4.6
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	4	<u>16.1</u>	<u>16.6</u>			19.4	24	4.6
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>		21.3	24	2.7
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>		21.3	24	2.7
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>		21.3	24	2.7
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	4	<u>14.1</u>	<u>14.5</u>	<u>14.4</u>	<u>14.9</u>	20.5	24	3.5
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>	<u>16.9</u>	22.7	24	1.3
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>	<u>16.9</u>	22.7	24	1.3
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>16.1</u>	<u>16.6</u>			19.4	23	3.6
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>16.1</u>	<u>16.6</u>			19.4	24	4.6
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>12.4</u>	<u>12.3</u>	<u>12.2</u>		17.1	21.2	4.1
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>15.1</u>	<u>15.5</u>	<u>15.5</u>		20.1	24	3.9
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>		21.3	24	2.7
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>10.5</u>	<u>10.3</u>	<u>10.0</u>	<u>10.9</u>	16.5	20	3.5
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>13.1</u>	<u>13.4</u>	<u>13.4</u>	<u>13.9</u>	19.5	23	3.5
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>15.1</u>	<u>15.5</u>	<u>15.5</u>	<u>15.8</u>	21.5	24	2.5
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>16.1</u>	<u>16.6</u>			19.4	24	4.6
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>		21.3	24	2.7
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>16.1</u>	<u>16.6</u>	<u>16.9</u>	<u>16.9</u>	22.7	24	1.3



5560	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>15.7</u>				15.7	23.7	8.0
	Non HT/VHT20, 6 to 54 Mbps	2	4	<u>15.7</u>	<u>16.9</u>			19.4	23.72	4.4
	Non HT/VHT20, 6 to 54 Mbps	3	4	<u>13.0</u>	<u>13.4</u>	<u>13.4</u>		18.0	23.7	5.7
	Non HT/VHT20, 6 to 54 Mbps	4	4	<u>10.5</u>	<u>10.6</u>	<u>10.3</u>	<u>11.0</u>	16.6	23.7	7.1
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>15.7</u>	<u>16.9</u>			19.4	22.72	3.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>12.0</u>	<u>12.5</u>	<u>12.3</u>		17.0	20.9	3.9
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>10.5</u>	<u>10.6</u>	<u>10.3</u>	<u>11.0</u>	16.6	19.7	3.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>15.6</u>				15.6	23.86	8.3
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	4	<u>15.6</u>	<u>16.8</u>			19.3	23.88	4.6
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>15.6</u>	<u>16.8</u>			19.3	23.88	4.6
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	4	<u>12.9</u>	<u>13.2</u>	<u>13.2</u>		17.9	23.86	6.0
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	4	<u>15.6</u>	<u>16.8</u>	<u>16.7</u>		21.2	23.88	2.7
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>15.6</u>	<u>16.8</u>	<u>16.7</u>		21.2	23.88	2.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	4	<u>11.0</u>	<u>11.2</u>	<u>11.1</u>	<u>11.7</u>	17.3	23.88	6.6
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	4	<u>12.9</u>	<u>13.2</u>	<u>13.2</u>	<u>13.5</u>	19.2	23.88	4.7
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	4	<u>14.7</u>	<u>15.6</u>	<u>15.6</u>	<u>15.6</u>	21.4	23.88	2.5
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>15.6</u>	<u>16.8</u>			19.3	22.88	3.6
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>15.6</u>	<u>16.8</u>			19.3	23.88	4.6
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>11.8</u>	<u>12.1</u>	<u>12.2</u>		16.8	21.03	4.2
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>14.7</u>	<u>15.6</u>	<u>15.6</u>		20.1	23.86	3.8
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>15.6</u>	<u>16.8</u>	<u>16.7</u>		21.2	23.88	2.7
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>10.2</u>	<u>10.4</u>	<u>10.1</u>	<u>10.8</u>	16.4	19.88	3.5
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>12.9</u>	<u>13.2</u>	<u>13.2</u>	<u>13.5</u>	19.2	22.88	3.7
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>14.7</u>	<u>15.6</u>	<u>15.6</u>	<u>15.6</u>	21.4	23.88	2.5
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>15.6</u>	<u>16.8</u>			19.3	23.88	4.6
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>15.6</u>	<u>16.8</u>	<u>16.7</u>		21.2	23.88	2.7
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>12.9</u>	<u>13.2</u>	<u>13.2</u>	<u>13.5</u>	19.2	23.88	4.7
5700	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>15.8</u>				15.8	23.7	7.9
	Non HT/VHT20, 6 to 54 Mbps	2	4	<u>15.8</u>	<u>16.6</u>			19.2	23.7	4.5
	Non HT/VHT20, 6 to 54 Mbps	3	4	<u>12.8</u>	<u>13.2</u>	<u>12.9</u>		17.7	23.7	6.0
	Non HT/VHT20, 6 to 54 Mbps	4	4	<u>10.1</u>	<u>10.4</u>	<u>10.0</u>	<u>10.5</u>	16.3	23.7	7.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>15.8</u>	<u>16.6</u>			19.2	22.7	3.5
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>11.9</u>	<u>12.4</u>	<u>12.1</u>		16.9	20.9	4.0
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>10.1</u>	<u>10.4</u>	<u>10.0</u>	<u>10.5</u>	16.3	19.7	3.4
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>15.7</u>				15.7	23.83	8.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	4	<u>15.7</u>	<u>16.6</u>			19.2	23.88	4.7
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>15.7</u>	<u>16.6</u>			19.2	23.88	4.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	4	<u>12.6</u>	<u>13.2</u>	<u>12.9</u>		17.7	23.88	6.2
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	4	<u>15.7</u>	<u>16.6</u>	<u>16.3</u>		21.0	23.86	2.9
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>15.7</u>	<u>16.6</u>	<u>16.3</u>		21.0	23.86	2.9



HT/VHT20, M0 to M7, M0.1 to M9.1	4	4	<u>10.9</u>	<u>11.2</u>	<u>10.9</u>	<u>11.3</u>	17.1	23.88	6.8
HT/VHT20, M8 to M15, M0.2 to M9.2	4	4	<u>13.7</u>	<u>14.4</u>	<u>14.1</u>	<u>14.2</u>	20.1	23.86	3.7
HT/VHT20, M16 to M23, M0.3 to M9.3	4	4	<u>14.8</u>	<u>15.5</u>	<u>15.2</u>	<u>15.2</u>	21.2	23.86	2.7
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>15.7</u>	<u>16.6</u>			19.2	22.88	3.7
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>15.7</u>	<u>16.6</u>			19.2	23.88	4.7
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>11.7</u>	<u>12.2</u>	<u>11.9</u>		16.7	21.06	4.4
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>14.8</u>	<u>15.5</u>	<u>15.2</u>		19.9	23.86	3.9
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>15.7</u>	<u>16.6</u>	<u>16.3</u>		21.0	23.86	2.9
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>9.9</u>	<u>10.0</u>	<u>9.7</u>	<u>10.2</u>	16.0	19.83	3.9
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>12.6</u>	<u>13.2</u>	<u>12.9</u>	<u>13.1</u>	19.0	22.86	3.9
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>14.8</u>	<u>15.5</u>	<u>15.2</u>	<u>15.2</u>	21.2	23.86	2.7
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>15.7</u>	<u>16.6</u>			19.2	23.88	4.7
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	4	<u>15.7</u>	<u>16.6</u>	<u>16.3</u>		21.0	23.86	2.9
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	4	<u>13.7</u>	<u>14.4</u>	<u>14.1</u>	<u>14.2</u>	20.1	23.86	3.7



Frequency (MHz)	Mode	Tx Paths	Correlated Antenna Gain (dBi)	Tx 1 PSD (dBm/MHz)	Tx 2 PSD (dBm/MHz)	Tx 3 PSD (dBm/MHz)	Tx 4 PSD (dBm/MHz)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>5.1</u>				5.1	11.0	5.9
	Non HT/VHT20, 6 to 54 Mbps	2	7	<u>5.1</u>	<u>5.7</u>			8.4	10.0	1.6
	Non HT/VHT20, 6 to 54 Mbps	3	9	<u>3.1</u>	<u>3.2</u>	<u>3.7</u>		8.1	8.2	0.1
	Non HT/VHT20, 6 to 54 Mbps	4	10	<u>0.7</u>	<u>-0.1</u>	<u>0.8</u>	<u>0.8</u>	6.6	7.0	0.4
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>5.1</u>	<u>5.7</u>			8.4	10.0	1.6
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>1.5</u>	<u>1.3</u>	<u>2.1</u>		6.4	8.2	1.8
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>-0.5</u>	<u>-0.8</u>	<u>-0.6</u>	<u>0.0</u>	5.6	7.0	1.4
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>4.9</u>				4.9	11.0	6.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	7	<u>4.9</u>	<u>5.2</u>			8.1	10.0	1.9
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>4.9</u>	<u>5.2</u>			8.1	11.0	2.9
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	9	<u>3.0</u>	<u>3.0</u>	<u>3.8</u>		8.1	8.2	0.2
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>4.9</u>	<u>5.2</u>	<u>6.2</u>		10.2	11.0	0.8
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>4.9</u>	<u>5.2</u>	<u>6.2</u>		10.2	11.0	0.8
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	10	<u>0.1</u>	<u>-0.1</u>	<u>0.4</u>	<u>0.4</u>	6.2	7.0	0.8
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	7	<u>3.0</u>	<u>3.0</u>	<u>3.8</u>	<u>3.3</u>	9.3	10.0	0.7
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	5	<u>3.8</u>	<u>4.3</u>	<u>4.9</u>	<u>4.4</u>	10.4	11.0	0.6
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>4.9</u>	<u>5.2</u>			8.1	10.0	1.9
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>4.9</u>	<u>5.2</u>			8.1	11.0	2.9
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>1.4</u>	<u>0.8</u>	<u>2.0</u>		6.2	8.2	2.0
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>3.8</u>	<u>4.3</u>	<u>4.9</u>		9.1	11.0	1.9
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>4.9</u>	<u>5.2</u>	<u>6.2</u>		10.2	11.0	0.8
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-0.8</u>	<u>-0.9</u>	<u>-0.6</u>	<u>-0.5</u>	5.3	7.0	1.7
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>2.2</u>	<u>2.0</u>	<u>2.9</u>	<u>2.6</u>	8.5	10.0	1.5
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>3.8</u>	<u>4.3</u>	<u>4.9</u>	<u>4.4</u>	10.4	11.0	0.6
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>4.9</u>	<u>5.2</u>			8.1	11.0	2.9
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>4.9</u>	<u>5.2</u>	<u>6.2</u>		10.2	11.0	0.8
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>3.0</u>	<u>3.0</u>	<u>3.8</u>	<u>3.3</u>	9.3	10.0	0.7



5500/5520	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>3.4</u>				3.4	11.0	7.6
	Non HT/VHT40, 6 to 54 Mbps	2	7	<u>3.4</u>	<u>3.4</u>			6.4	10.0	3.6
	Non HT/VHT40, 6 to 54 Mbps	3	9	<u>1.0</u>	<u>0.5</u>	<u>1.2</u>		5.7	8.2	2.5
	Non HT/VHT40, 6 to 54 Mbps	4	10	<u>-0.2</u>	<u>-0.1</u>	<u>0.2</u>	<u>0.0</u>	6.0	7.0	1.0
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	4	<u>1.7</u>				1.7	11.0	9.3
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	7	<u>0.9</u>	<u>0.8</u>			3.9	10.0	6.1
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	4	<u>0.9</u>	<u>0.8</u>			3.9	11.0	7.1
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	9	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>		5.8	8.2	2.4
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>		5.8	11.0	5.2
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	4	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>		5.8	11.0	5.2
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	10	<u>0.2</u>	<u>-0.1</u>	<u>0.6</u>	<u>0.8</u>	6.4	7.0	0.6
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	7	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>	<u>1.2</u>	7.1	10.0	2.9
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	5	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>	<u>1.2</u>	7.1	11.0	3.9
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>0.9</u>	<u>0.8</u>			3.9	10.0	6.1
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>0.9</u>	<u>0.8</u>			3.9	11.0	7.1
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>-1.8</u>	<u>-2.6</u>	<u>-1.8</u>		2.7	8.2	5.5
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>0.2</u>	<u>-0.1</u>	<u>0.6</u>		5.0	11.0	6.0
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>		5.8	11.0	5.2
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-3.6</u>	<u>-4.1</u>	<u>-4.4</u>	<u>-3.7</u>	2.1	7.0	4.9
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>-1.3</u>	<u>-1.4</u>	<u>-0.8</u>	<u>-0.7</u>	5.0	10.0	5.0
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>0.2</u>	<u>-0.1</u>	<u>0.6</u>	<u>0.8</u>	6.4	11.0	4.6
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>0.9</u>	<u>0.8</u>			3.9	11.0	7.1
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>		5.8	11.0	5.2
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>0.9</u>	<u>0.8</u>	<u>1.5</u>	<u>1.2</u>	7.1	10.0	2.9
5500/5520/5540/5560	Non HT/VHT80, 6 to 54 Mbps	1	4	<u>-0.6</u>				-0.6	11.0	11.6
	Non HT/VHT80, 6 to 54 Mbps	2	7	<u>-1.9</u>	<u>-1.5</u>			1.3	10.0	8.7
	Non HT/VHT80, 6 to 54 Mbps	3	9	<u>-3.1</u>	<u>-3.1</u>	<u>-2.8</u>		1.8	8.2	6.5
	Non HT/VHT80, 6 to 54 Mbps	4	10	<u>-3.1</u>	<u>-3.1</u>	<u>-2.8</u>	<u>-2.5</u>	3.2	7.0	3.8
	HT/VHT80, M0 to M7, M0.1 to M9.1	1	4	<u>-2.4</u>				-2.4	11.0	13.4
	HT/VHT80, M0 to M7, M0.1 to M9.1	2	7	<u>-2.4</u>	<u>-1.8</u>			0.9	10.0	9.1
	HT/VHT80, M8 to M15, M0.2 to M9.2	2	4	<u>-2.4</u>	<u>-1.8</u>			0.9	11.0	10.1
	HT/VHT80, M0 to M7, M0.1 to M9.1	3	9	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>		2.9	8.2	5.4
	HT/VHT80, M8 to M15, M0.2 to M9.2	3	6	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>		2.9	11.0	8.1
	HT/VHT80, M16 to M23, M0.3 to M9.3	3	4	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>		2.9	11.0	8.1
	HT/VHT80, M0 to M7, M0.1 to M9.1	4	10	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>	<u>-1.7</u>	4.2	7.0	2.8
	HT/VHT80, M8 to M15, M0.2 to M9.2	4	7	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>	<u>-1.7</u>	4.2	10.0	5.8
	HT/VHT80, M16 to M23, M0.3 to M9.3	4	5	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>	<u>-1.7</u>	4.2	11.0	6.8
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>-2.4</u>	<u>-1.8</u>			0.9	10.0	9.1
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>-2.4</u>	<u>-1.8</u>			0.9	11.0	10.1
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>-6.1</u>	<u>-6.4</u>	<u>-5.7</u>		-1.3	8.2	9.5



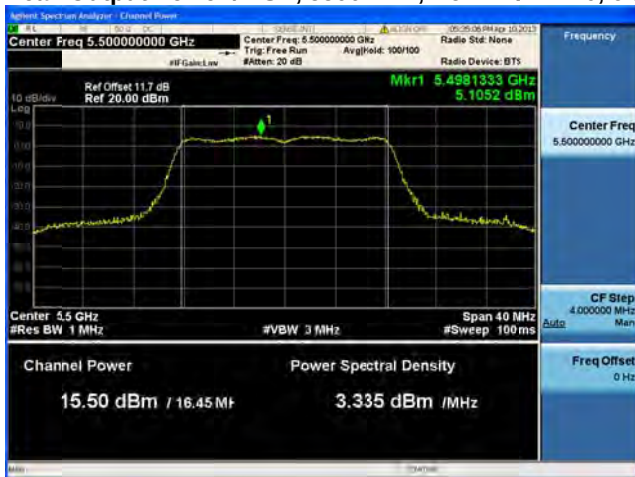
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>-4.4</u>	<u>-4.1</u>	<u>-3.4</u>		0.8	11.0	10.2
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>		2.9	11.0	8.1
	HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-7.9</u>	<u>-8.4</u>	<u>-8.1</u>	<u>-7.5</u>	-1.9	7.0	8.9
	HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>-5.1</u>	<u>-5.2</u>	<u>-4.9</u>	<u>-4.2</u>	1.2	10.0	8.8
	HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>-4.4</u>	<u>-4.1</u>	<u>-3.4</u>	<u>-3.5</u>	2.2	11.0	8.8
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>-2.4</u>	<u>-1.8</u>			0.9	11.0	10.1
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>		2.9	11.0	8.1
	HT/VHT80 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>-2.4</u>	<u>-1.8</u>	<u>-1.6</u>	<u>-1.7</u>	4.2	10.0	5.8
5540/5560	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>3.2</u>				3.2	11.0	7.8
	Non HT/VHT40, 6 to 54 Mbps	2	7	<u>3.2</u>	<u>3.6</u>			6.4	10.0	3.6
	Non HT/VHT40, 6 to 54 Mbps	3	9	<u>2.2</u>	<u>2.6</u>	<u>2.4</u>		7.2	8.2	1.1
	Non HT/VHT40, 6 to 54 Mbps	4	10	<u>0.1</u>	<u>0.2</u>	<u>0.3</u>	<u>0.6</u>	6.3	7.0	0.7
	HT/VHT40, M0 to M7, M0.1 to M9.1	1	4	<u>2.6</u>				2.6	11.0	8.4
	HT/VHT40, M0 to M7, M0.1 to M9.1	2	7	<u>2.6</u>	<u>2.8</u>			5.7	10.0	4.3
	HT/VHT40, M8 to M15, M0.2 to M9.2	2	4	<u>2.6</u>	<u>2.8</u>			5.7	11.0	5.3
	HT/VHT40, M0 to M7, M0.1 to M9.1	3	9	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>		7.6	8.2	0.6
	HT/VHT40, M8 to M15, M0.2 to M9.2	3	6	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>		7.6	11.0	3.4
	HT/VHT40, M16 to M23, M0.3 to M9.3	3	4	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>		7.6	11.0	3.4
	HT/VHT40, M0 to M7, M0.1 to M9.1	4	10	<u>0.6</u>	<u>0.8</u>	<u>0.6</u>	<u>1.4</u>	6.9	7.0	0.1
	HT/VHT40, M8 to M15, M0.2 to M9.2	4	7	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>	<u>3.1</u>	9.0	10.0	1.0
	HT/VHT40, M16 to M23, M0.3 to M9.3	4	5	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>	<u>3.1</u>	9.0	11.0	2.0
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>2.6</u>	<u>2.8</u>			5.7	10.0	4.3
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>2.6</u>	<u>2.8</u>			5.7	11.0	5.3
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>-1.0</u>	<u>-1.4</u>	<u>-1.6</u>		3.4	8.2	4.8
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>1.5</u>	<u>2.1</u>	<u>1.9</u>		6.6	11.0	4.4
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>		7.6	11.0	3.4
	HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-3.2</u>	<u>-3.4</u>	<u>-3.8</u>	<u>-2.7</u>	2.8	7.0	4.2
	HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>-0.5</u>	<u>-0.2</u>	<u>-0.4</u>	<u>0.4</u>	5.9	10.0	4.1
	HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>1.5</u>	<u>2.1</u>	<u>1.9</u>	<u>2.2</u>	8.0	11.0	3.0
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>2.6</u>	<u>2.8</u>			5.7	11.0	5.3
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>		7.6	11.0	3.4
	HT/VHT40 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>2.6</u>	<u>2.8</u>	<u>3.2</u>	<u>3.1</u>	9.0	10.0	1.0



5560	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>5.3</u>				5.3	11.0	5.7
	Non HT/VHT20, 6 to 54 Mbps	2	7	<u>5.3</u>	<u>6.4</u>			8.9	10.0	1.1
	Non HT/VHT20, 6 to 54 Mbps	3	9	<u>2.8</u>	<u>3.3</u>	<u>3.1</u>		7.8	8.2	0.4
	Non HT/VHT20, 6 to 54 Mbps	4	10	<u>0.1</u>	<u>0.3</u>	<u>-0.1</u>	<u>0.8</u>	6.3	7.0	0.7
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>5.3</u>	<u>6.4</u>			8.9	10.0	1.1
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>1.7</u>	<u>2.0</u>	<u>1.9</u>		6.6	8.2	1.6
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>0.1</u>	<u>0.3</u>	<u>-0.1</u>	<u>0.8</u>	6.3	7.0	0.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>5.3</u>				5.3	11.0	5.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	7	<u>5.3</u>	<u>6.4</u>			8.9	10.0	1.1
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>5.3</u>	<u>6.4</u>			8.9	11.0	2.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	9	<u>2.6</u>	<u>2.7</u>	<u>2.9</u>		7.5	8.2	0.7
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>5.3</u>	<u>6.4</u>	<u>6.5</u>		10.9	11.0	0.1
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>5.3</u>	<u>6.4</u>	<u>6.5</u>		10.9	11.0	0.1
	HT/VHT20, M0 to M7, M0.1 to M9.1	4	10	<u>0.6</u>	<u>0.7</u>	<u>0.8</u>	<u>1.3</u>	6.9	7.0	0.1
	HT/VHT20, M8 to M15, M0.2 to M9.2	4	7	<u>2.6</u>	<u>2.7</u>	<u>2.9</u>	<u>3.0</u>	8.8	10.0	1.2
	HT/VHT20, M16 to M23, M0.3 to M9.3	4	5	<u>4.4</u>	<u>5.3</u>	<u>5.0</u>	<u>5.0</u>	11.0	11.0	0.0
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>5.3</u>	<u>6.4</u>			8.9	10.0	1.1
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>5.3</u>	<u>6.4</u>			8.9	11.0	2.1
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>1.2</u>	<u>2.0</u>	<u>1.6</u>		6.4	8.2	1.8
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>4.4</u>	<u>5.3</u>	<u>5.0</u>		9.7	11.0	1.3
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>5.3</u>	<u>6.4</u>	<u>6.5</u>		10.9	11.0	0.1
	HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-0.2</u>	<u>0.3</u>	<u>-0.4</u>	<u>0.2</u>	6.0	7.0	1.0
	HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>2.6</u>	<u>2.7</u>	<u>2.9</u>	<u>3.0</u>	8.8	10.0	1.2
	HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>4.4</u>	<u>5.3</u>	<u>5.0</u>	<u>5.0</u>	11.0	11.0	0.0
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>5.3</u>	<u>6.4</u>			8.9	11.0	2.1
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>5.3</u>	<u>6.4</u>	<u>6.5</u>		10.9	11.0	0.1
	HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>2.6</u>	<u>2.7</u>	<u>2.9</u>	<u>3.0</u>	8.8	10.0	1.2
5700	Non HT/VHT20, 6 to 54 Mbps	1	4	<u>5.8</u>				5.8	11.0	5.2
	Non HT/VHT20, 6 to 54 Mbps	2	7	<u>5.8</u>	<u>6.1</u>			9.0	10.0	1.0
	Non HT/VHT20, 6 to 54 Mbps	3	9	<u>2.4</u>	<u>3.0</u>	<u>2.6</u>		7.4	8.2	0.8
	Non HT/VHT20, 6 to 54 Mbps	4	10	<u>-0.3</u>	<u>0.1</u>	<u>0.1</u>	<u>0.2</u>	6.0	7.0	0.9
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	2	7	<u>5.8</u>	<u>6.1</u>			9.0	10.0	1.0
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	3	9	<u>1.6</u>	<u>2.0</u>	<u>1.9</u>		6.6	8.2	1.6
	Non HT/VHT20 Beam Forming, 6 to 54 Mbps	4	10	<u>-0.3</u>	<u>0.1</u>	<u>0.1</u>	<u>0.2</u>	6.0	7.0	0.9
	HT/VHT20, M0 to M7, M0.1 to M9.1	1	4	<u>5.3</u>				5.3	11.0	5.7
	HT/VHT20, M0 to M7, M0.1 to M9.1	2	7	<u>5.3</u>	<u>6.5</u>			9.0	10.0	1.0
	HT/VHT20, M8 to M15, M0.2 to M9.2	2	4	<u>5.3</u>	<u>6.5</u>			9.0	11.0	2.0
	HT/VHT20, M0 to M7, M0.1 to M9.1	3	9	<u>2.1</u>	<u>2.8</u>	<u>2.6</u>		7.3	8.2	0.9
	HT/VHT20, M8 to M15, M0.2 to M9.2	3	6	<u>5.3</u>	<u>6.5</u>	<u>6.1</u>		10.8	11.0	0.2
	HT/VHT20, M16 to M23, M0.3 to M9.3	3	4	<u>5.3</u>	<u>6.5</u>	<u>6.1</u>		10.8	11.0	0.2



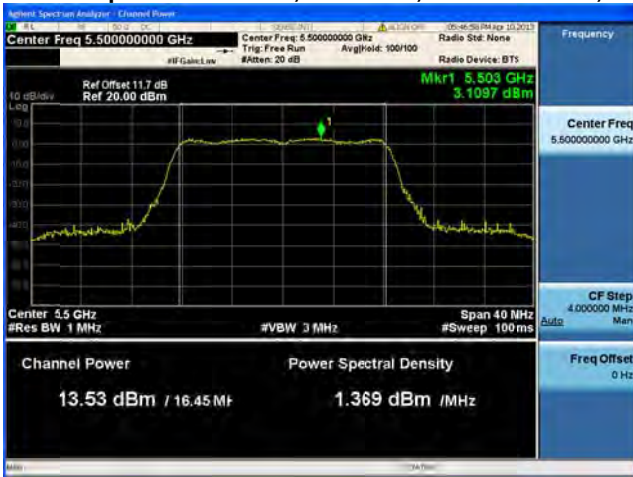
HT/VHT20, M0 to M7, M0.1 to M9.1	4	10	<u>0.5</u>	<u>0.8</u>	<u>0.7</u>	<u>0.7</u>	6.7	7.0	0.3
HT/VHT20, M8 to M15, M0.2 to M9.2	4	7	<u>3.7</u>	<u>4.2</u>	<u>4.0</u>	<u>3.6</u>	9.9	10.0	0.1
HT/VHT20, M16 to M23, M0.3 to M9.3	4	5	<u>4.6</u>	<u>5.0</u>	<u>5.0</u>	<u>4.8</u>	10.9	11.0	0.1
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	2	7	<u>5.3</u>	<u>6.5</u>			9.0	10.0	1.0
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	2	4	<u>5.3</u>	<u>6.5</u>			9.0	11.0	2.0
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	3	9	<u>1.3</u>	<u>1.8</u>	<u>1.9</u>		6.4	8.2	1.8
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	3	6	<u>4.6</u>	<u>5.0</u>	<u>5.0</u>		9.6	11.0	1.4
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	3	4	<u>5.3</u>	<u>6.5</u>	<u>6.1</u>		10.8	11.0	0.2
HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1	4	10	<u>-0.4</u>	<u>-0.1</u>	<u>-0.4</u>	<u>0.0</u>	5.8	7.0	1.2
HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2	4	7	<u>2.1</u>	<u>2.8</u>	<u>2.6</u>	<u>2.8</u>	8.6	10.0	1.4
HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3	4	5	<u>4.6</u>	<u>5.0</u>	<u>5.0</u>	<u>4.8</u>	10.9	11.0	0.1
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	2	4	<u>5.3</u>	<u>6.5</u>			9.0	11.0	2.0
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	3	6	<u>5.3</u>	<u>6.5</u>	<u>6.1</u>		10.8	11.0	0.2
HT/VHT20 STBC, M0 to M7, M0.1 to M9.1	4	7	<u>3.7</u>	<u>4.2</u>	<u>4.0</u>	<u>3.6</u>	9.9	10.0	0.1

**Peak Output Power / PSD, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A**

Peak Output Power / PSD, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**



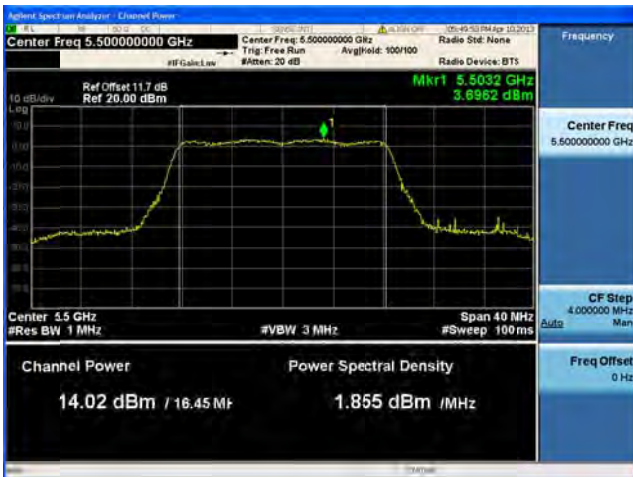
Peak Output Power / PSD, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A

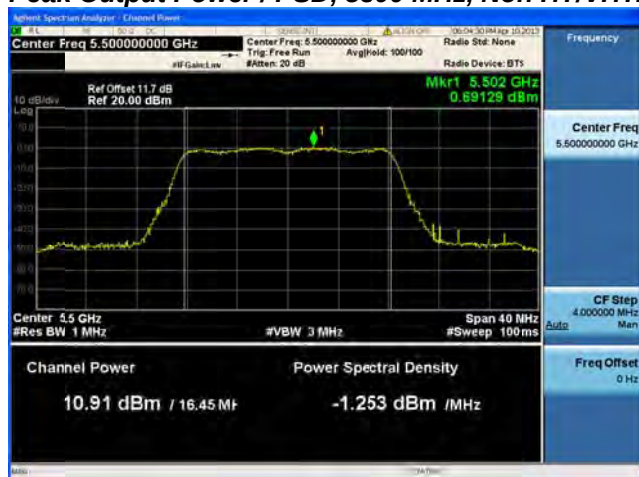


Antenna B



Antenna C

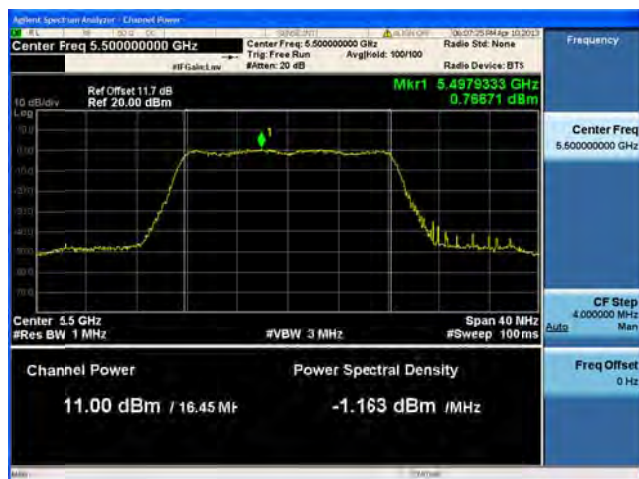
Peak Output Power / PSD, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A



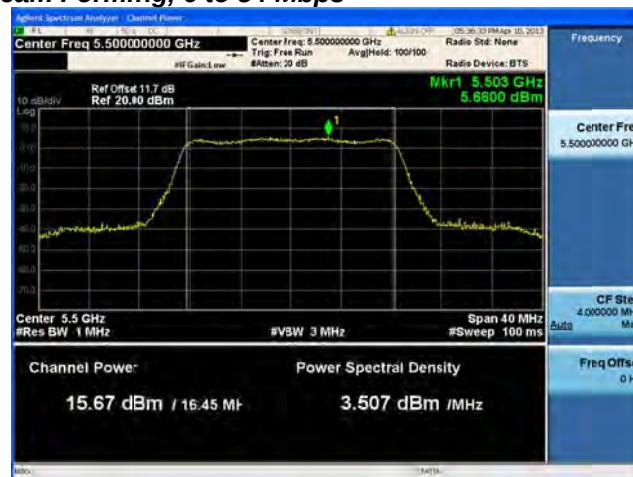
Antenna B

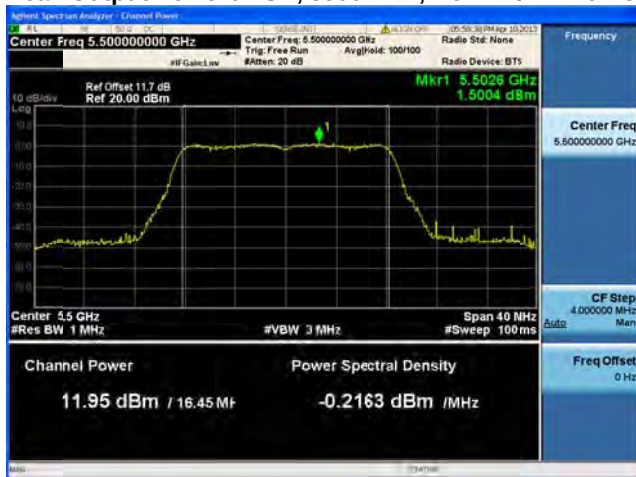


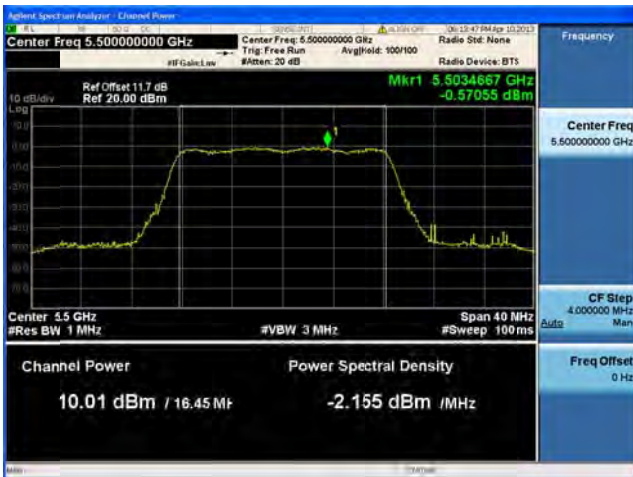
Antenna C



Antenna D

Peak Output Power / PSD, 5500 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5500 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5500 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

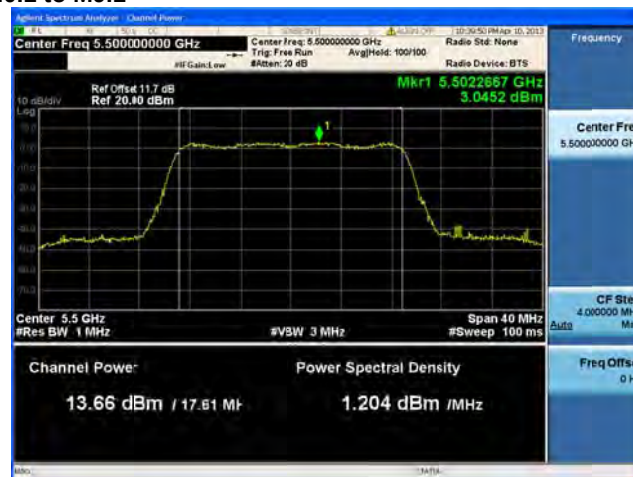
Peak Output Power / PSD, 5500 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2

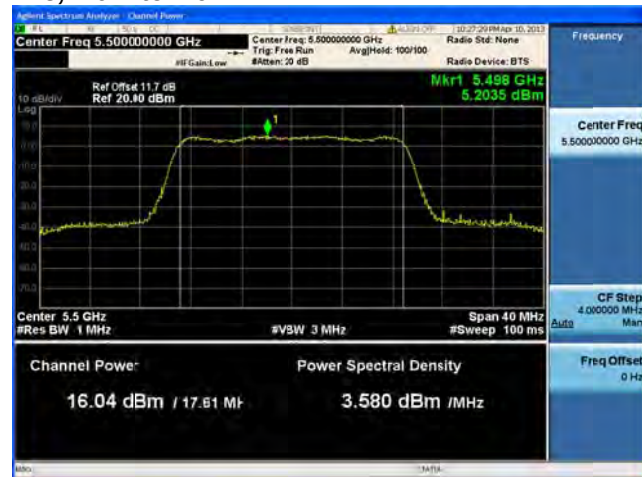


Antenna A

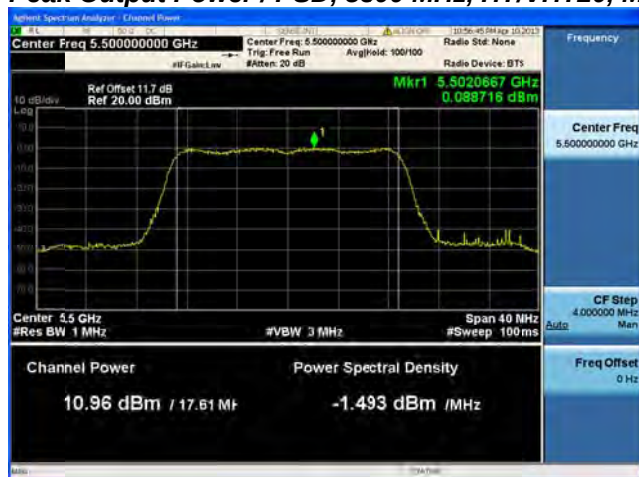


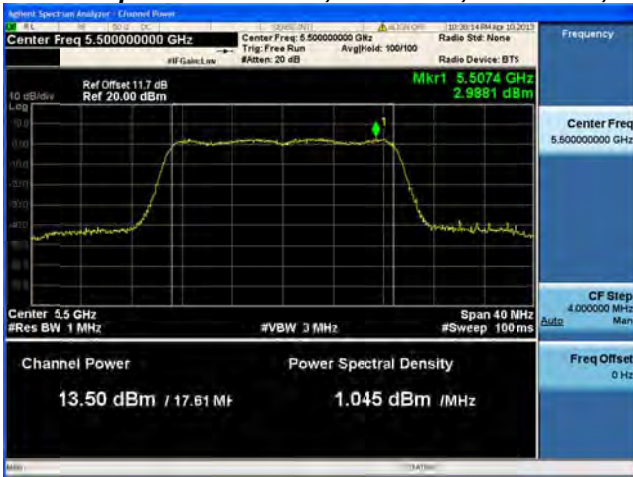
Antenna B

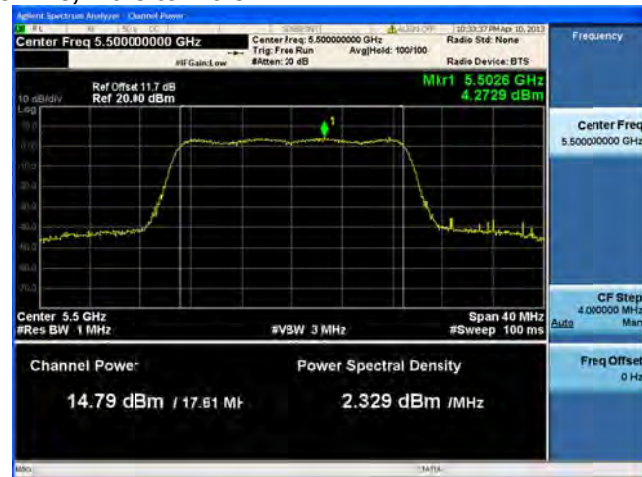
Peak Output Power / PSD, 5500 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5500 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

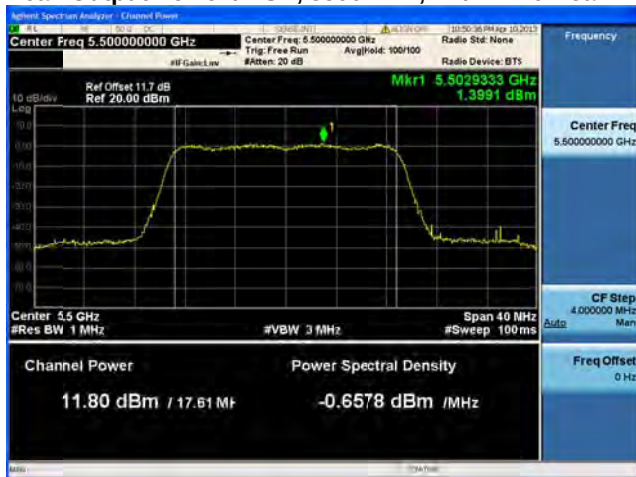
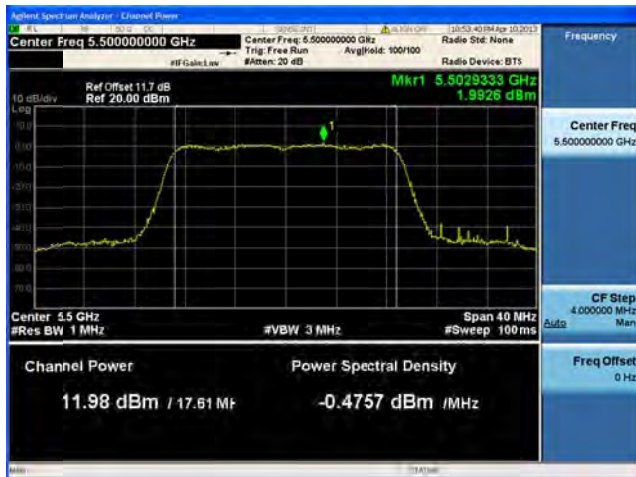
Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2

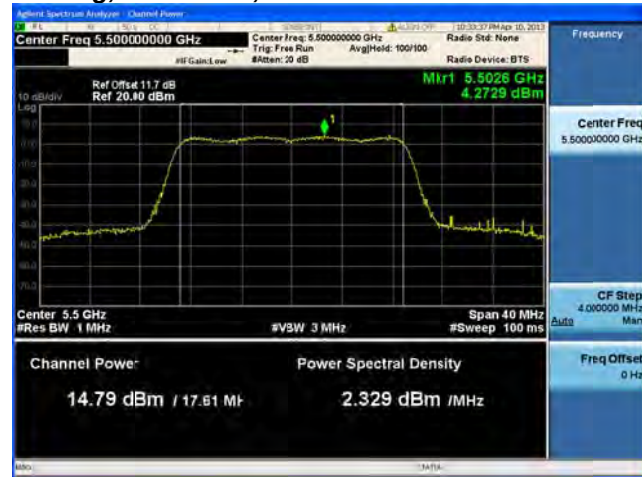


Antenna A

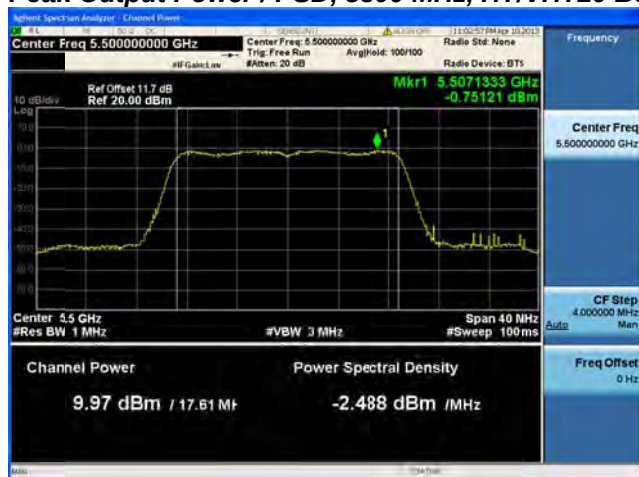
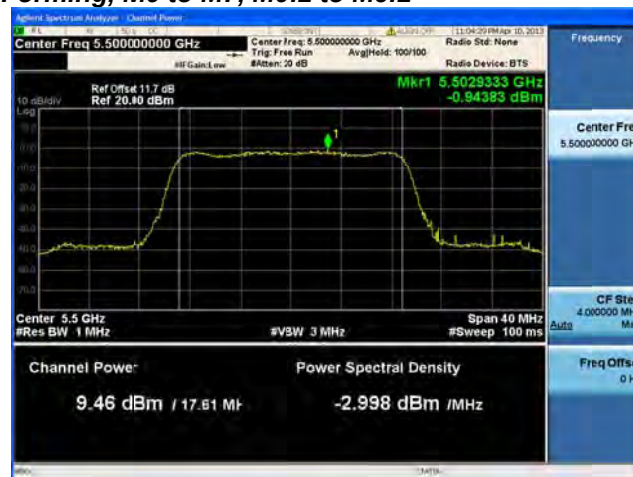


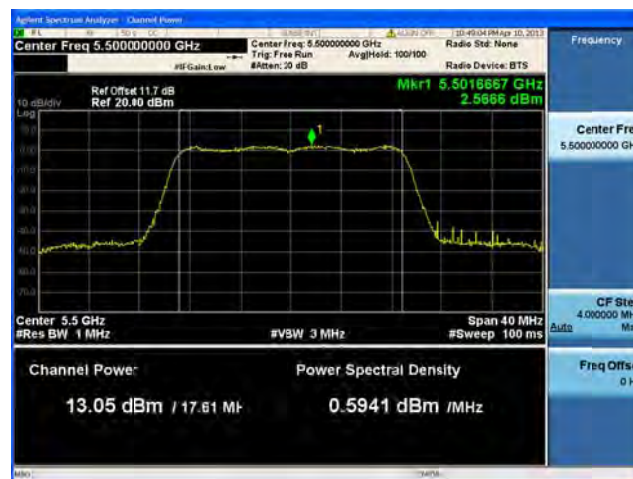
Antenna B

**Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

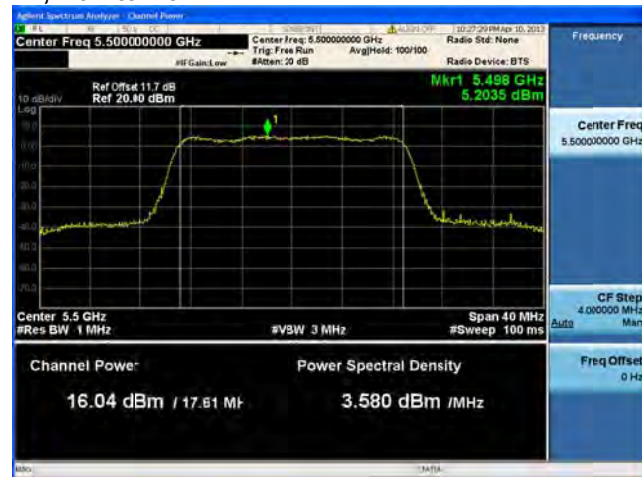
Peak Output Power / PSD, 5500 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**



Peak Output Power / PSD, 5500 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



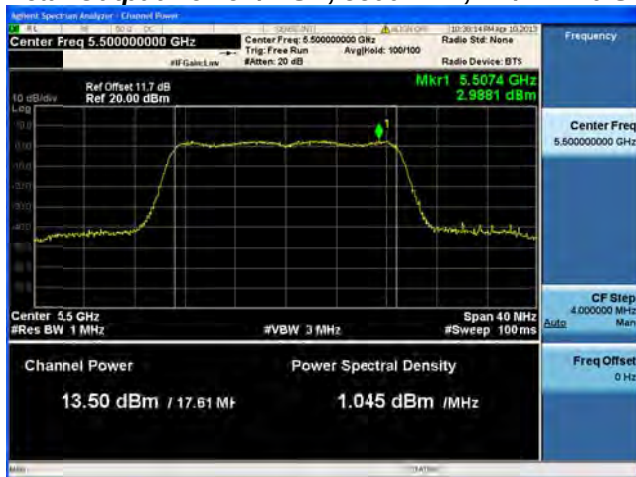
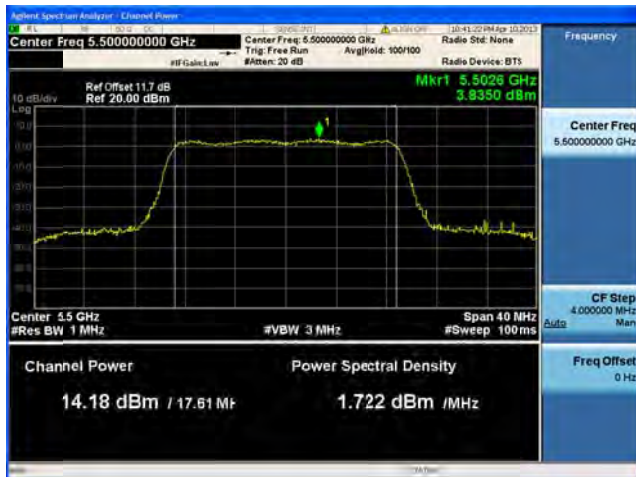
Antenna A



Antenna B

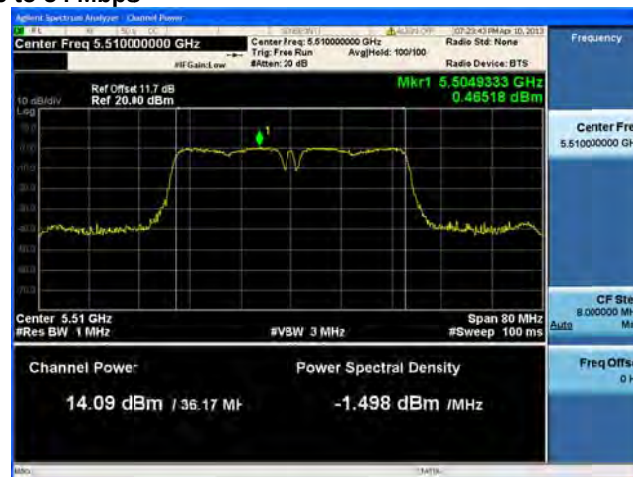


Antenna C

Peak Output Power / PSD, 5500 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

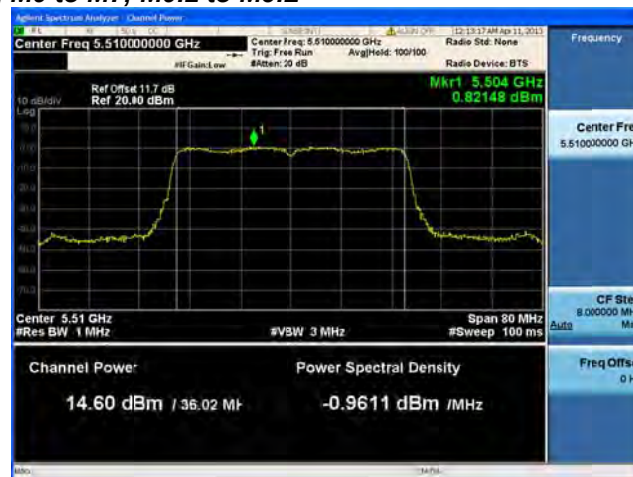
Peak Output Power / PSD, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

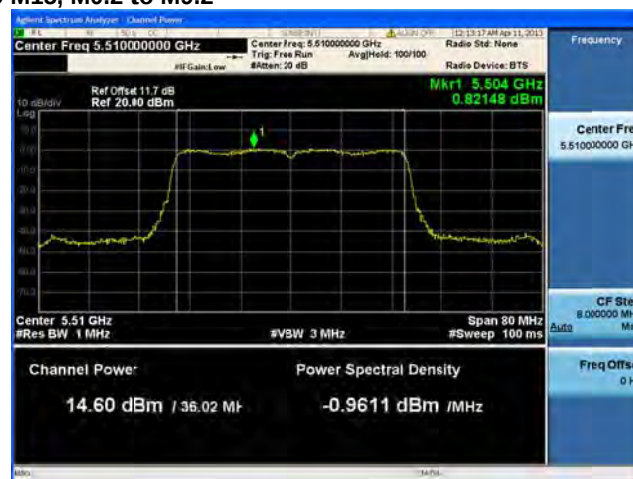
Peak Output Power / PSD, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B**

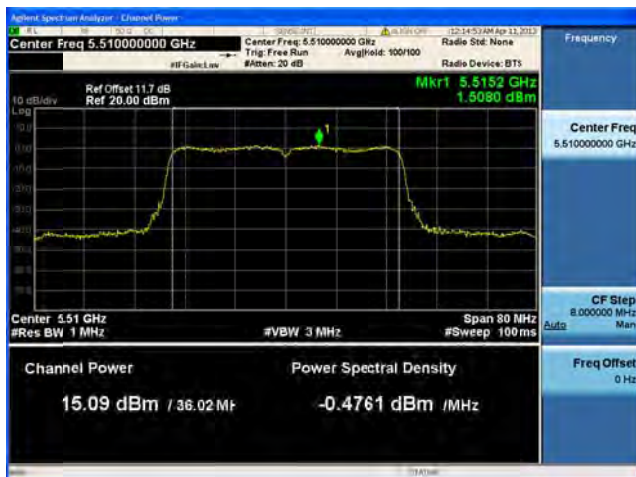
Peak Output Power / PSD, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C**

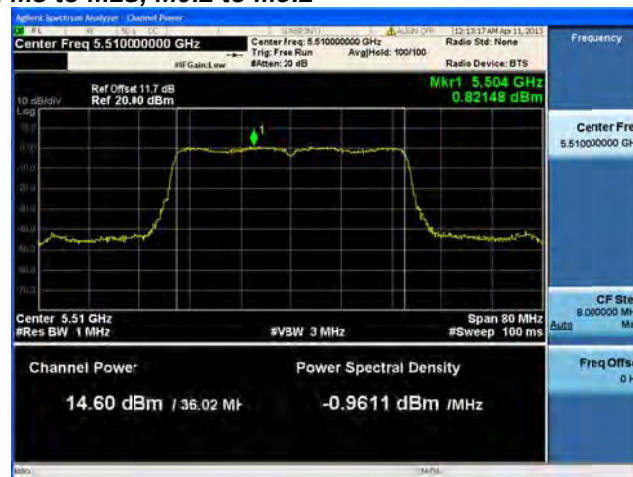
Peak Output Power / PSD, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

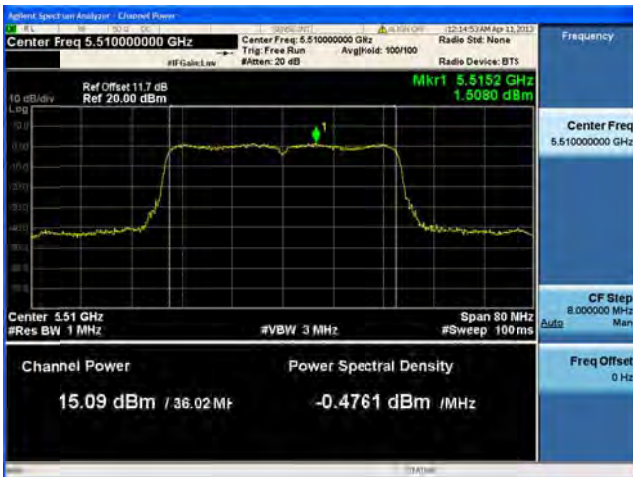
Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1


Antenna A



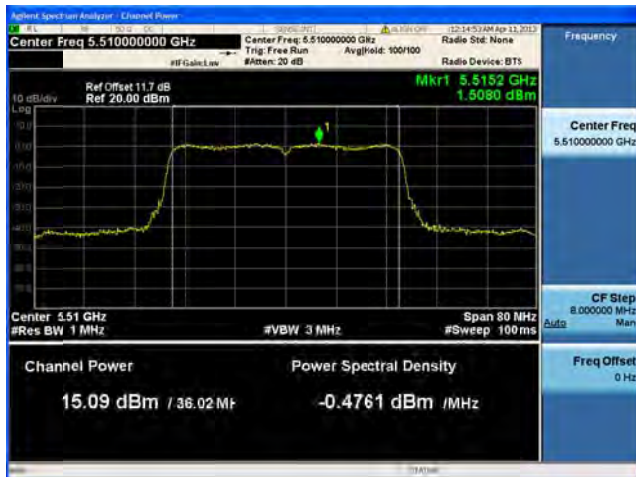
Antenna B



Antenna C



Antenna D

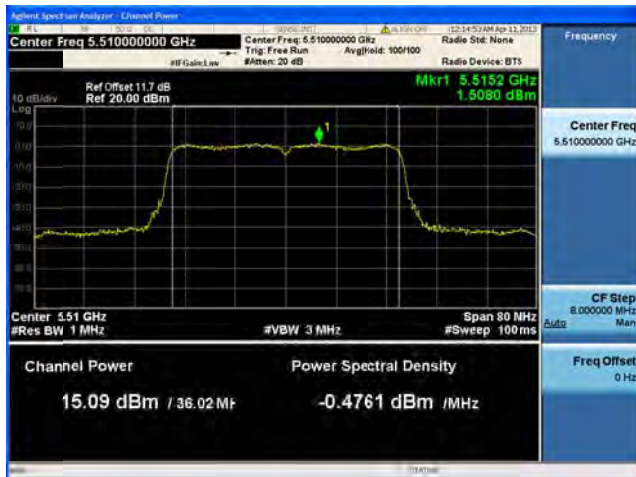
**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**


Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3


Antenna A



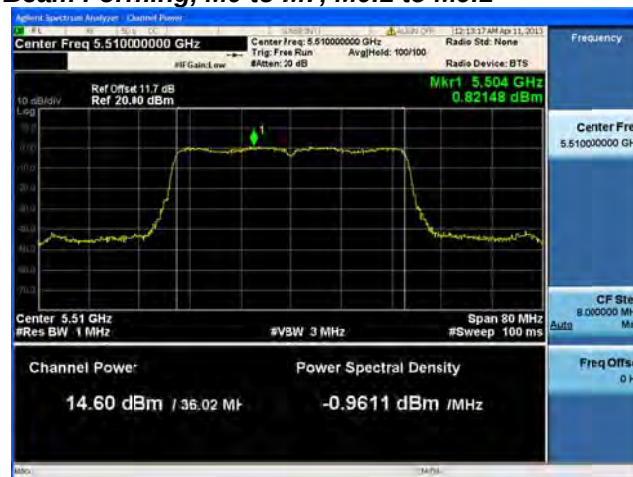
Antenna B



Antenna C



Antenna D

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

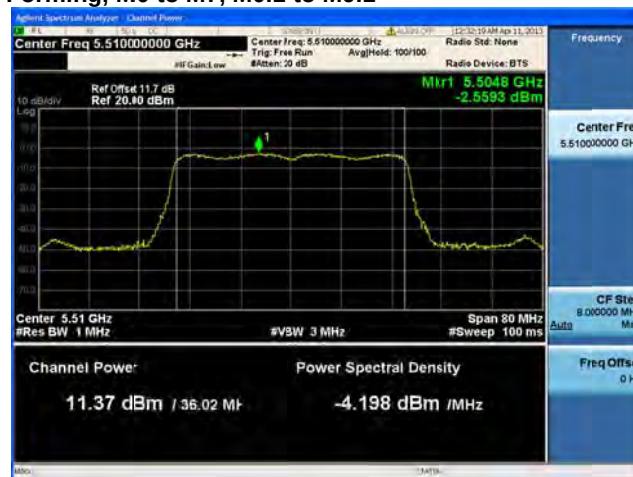
Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2



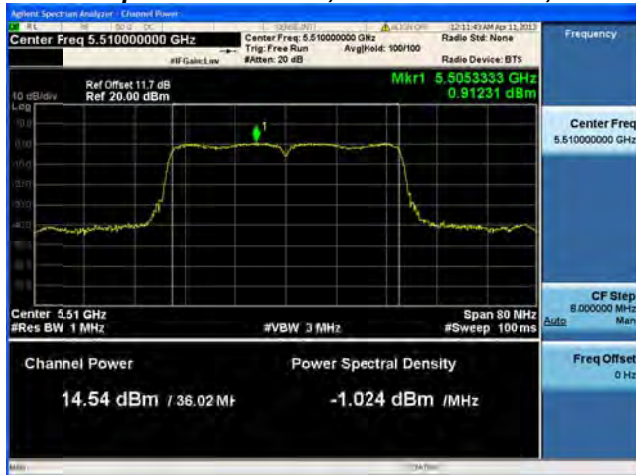
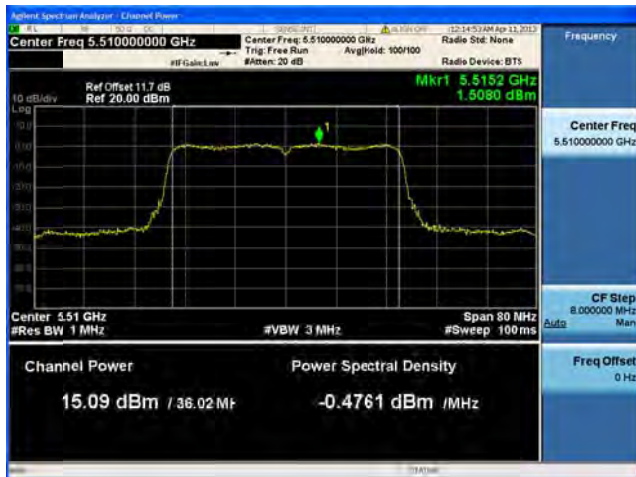
Antenna A

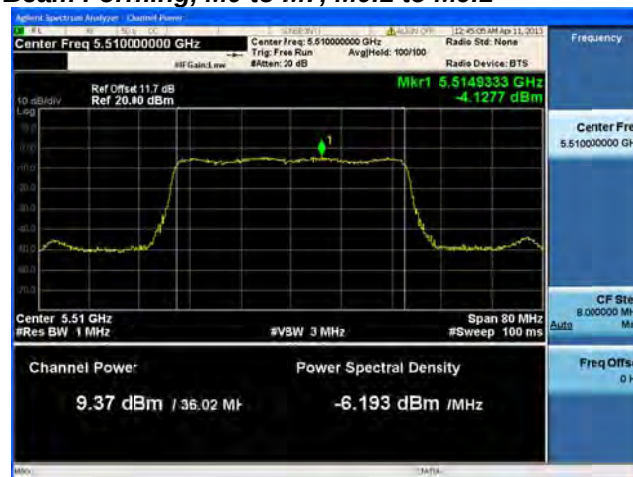
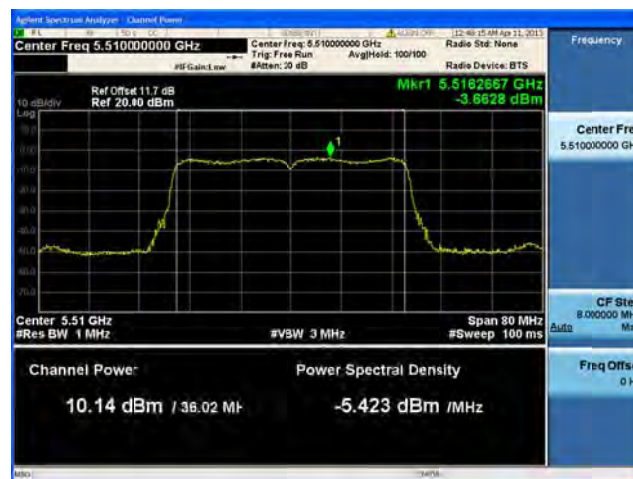


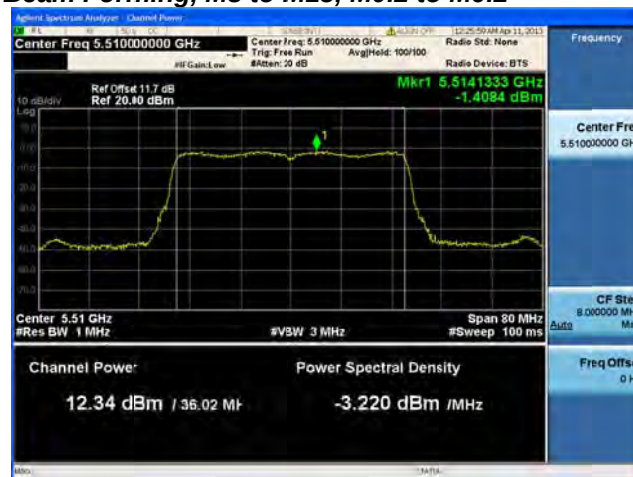
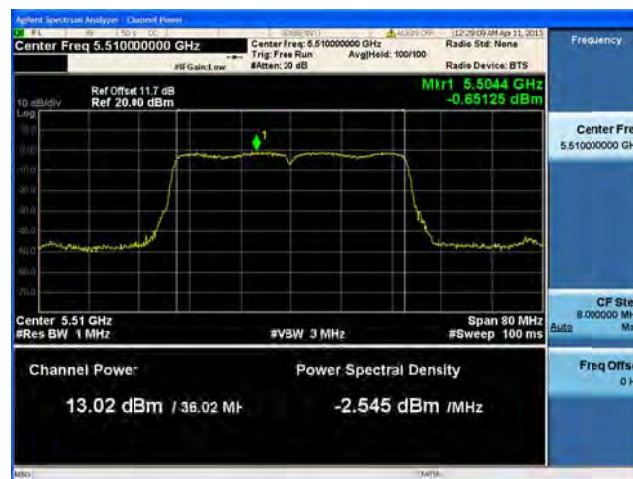
Antenna B

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

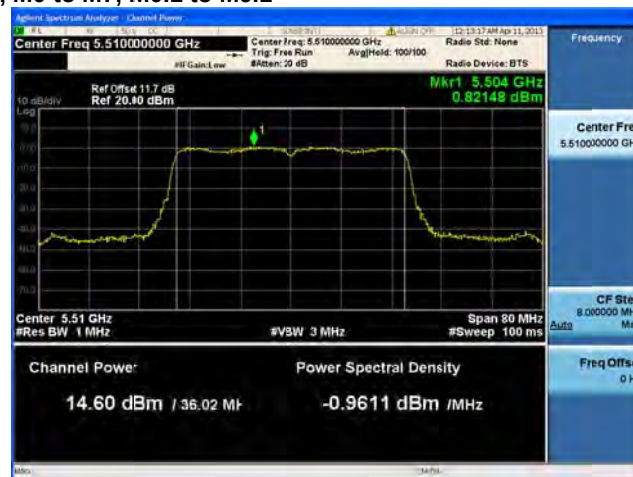
**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

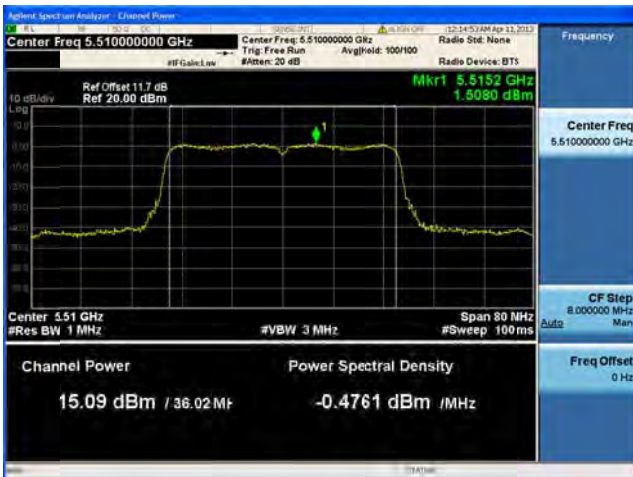
Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

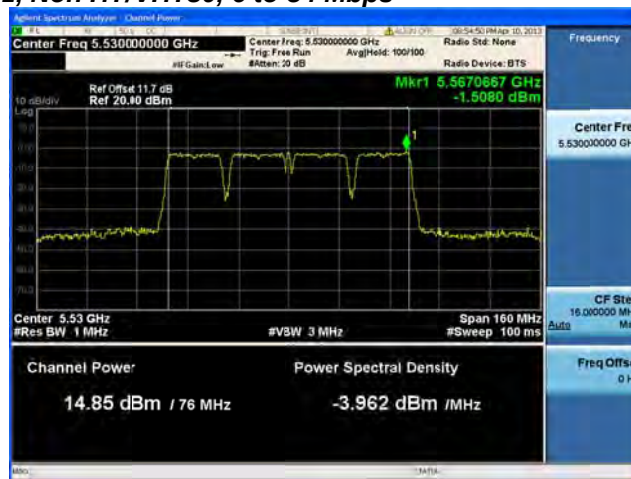
Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

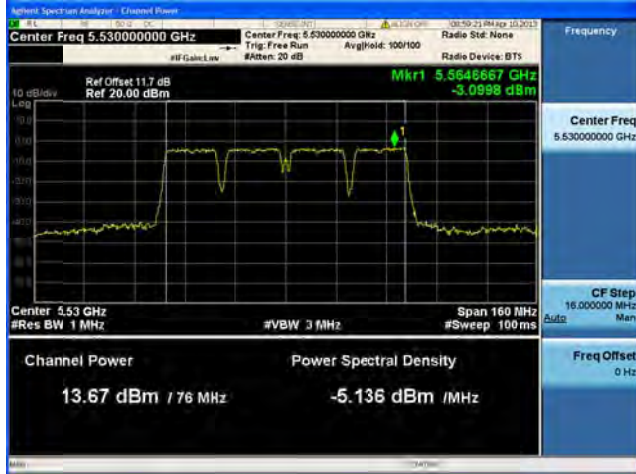
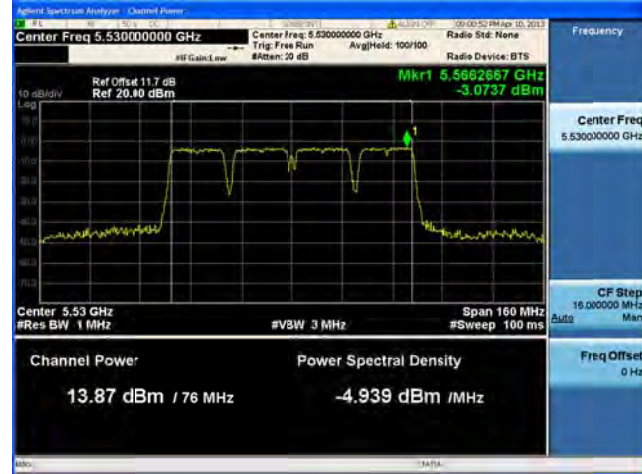
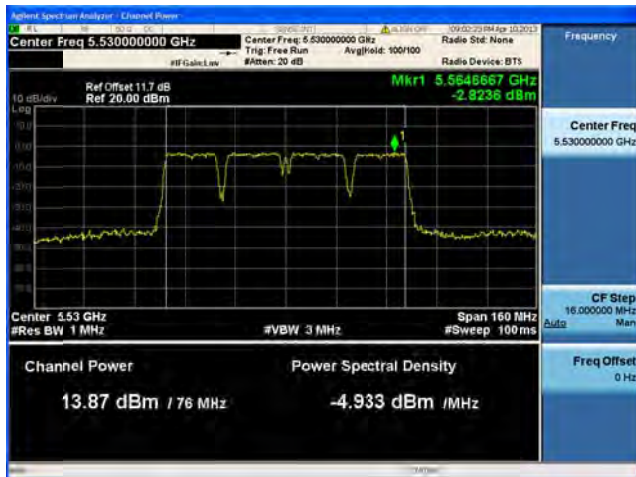
Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

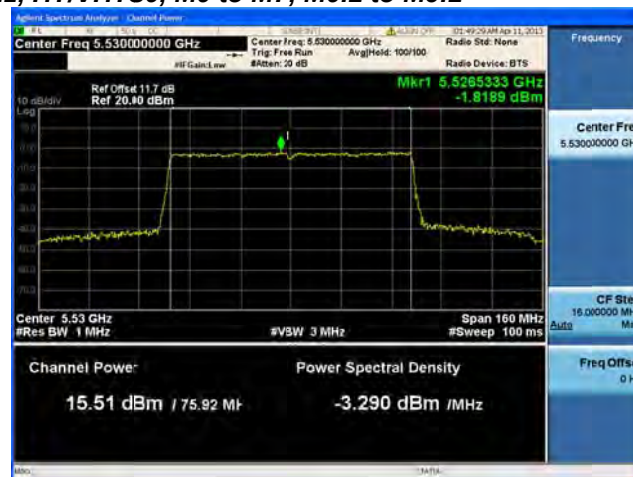
Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B**

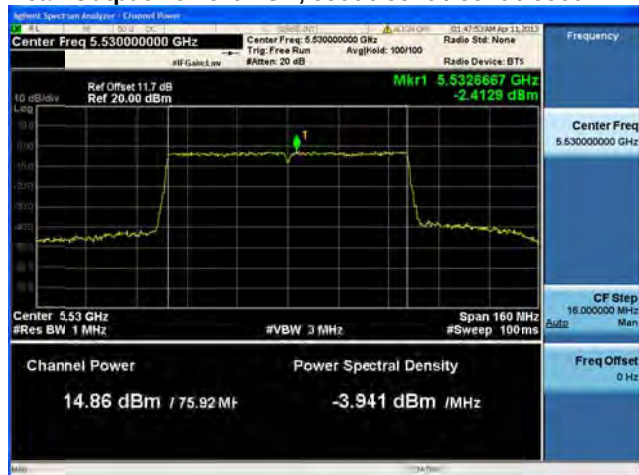
**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

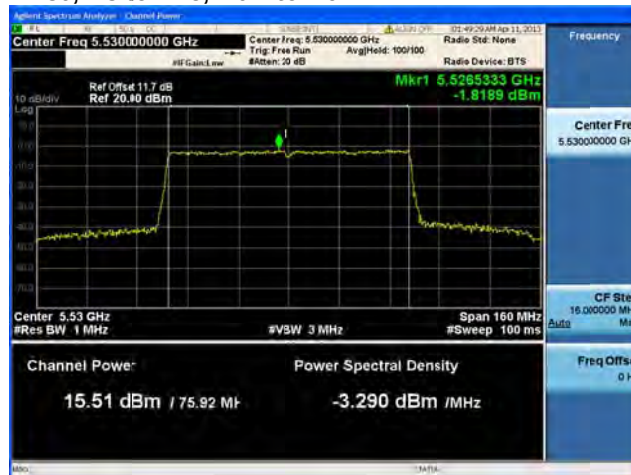
Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C**


Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M7, M0.1 to M9.1


Antenna A



Antenna B



Antenna C



Antenna D

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**


Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M16 to M23, M0.3 to M9.3


Antenna A



Antenna B



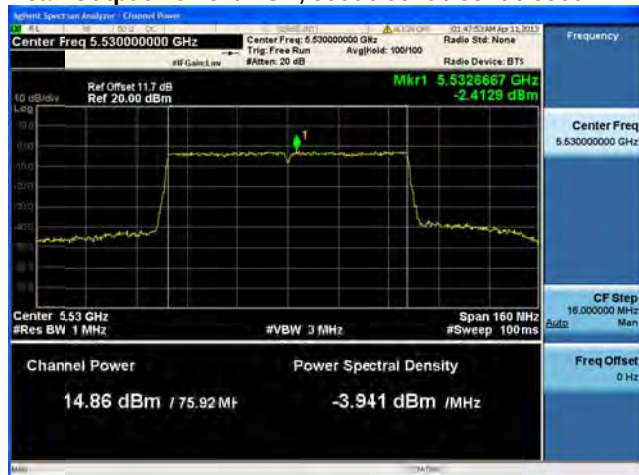
Antenna C



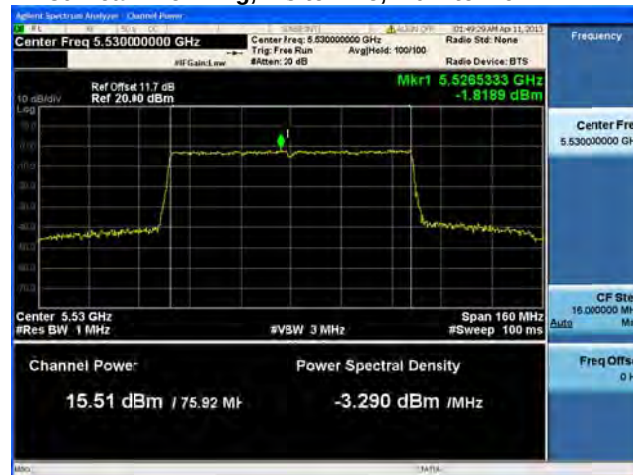
Antenna D

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

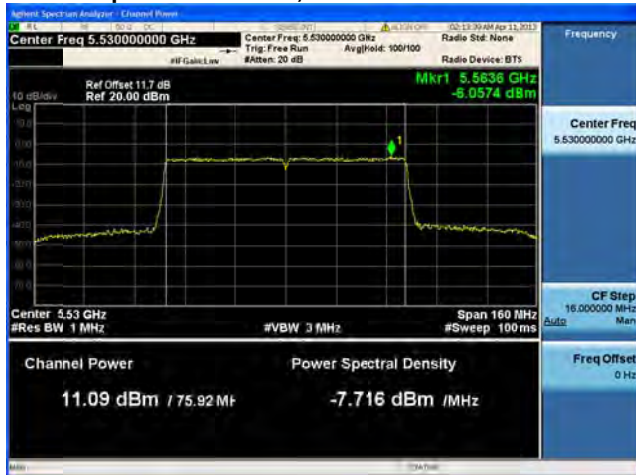
Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

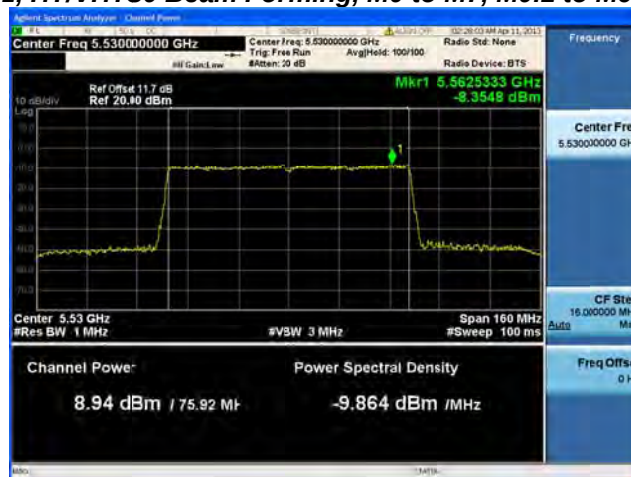


Antenna B

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

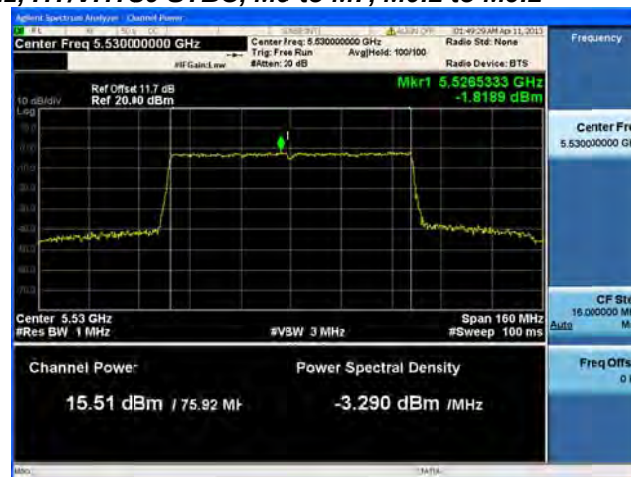
**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

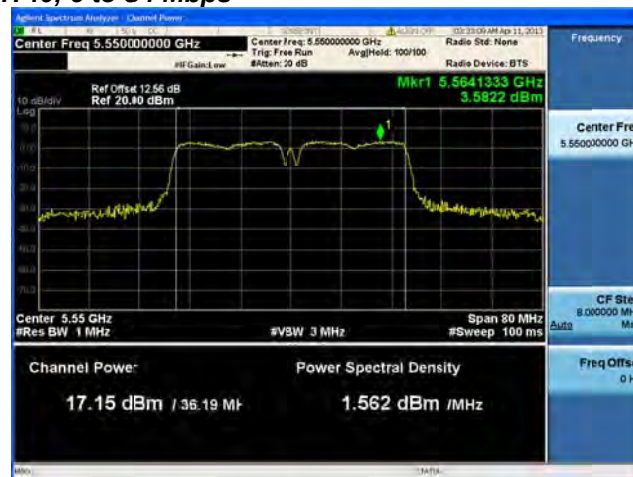
Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A**

Peak Output Power / PSD, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

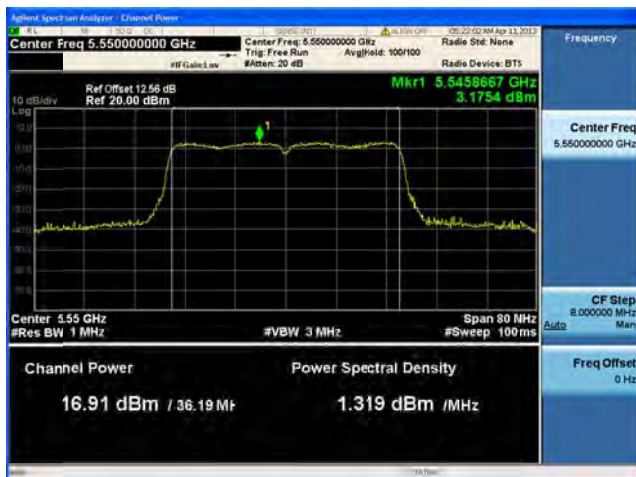
Peak Output Power / PSD, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

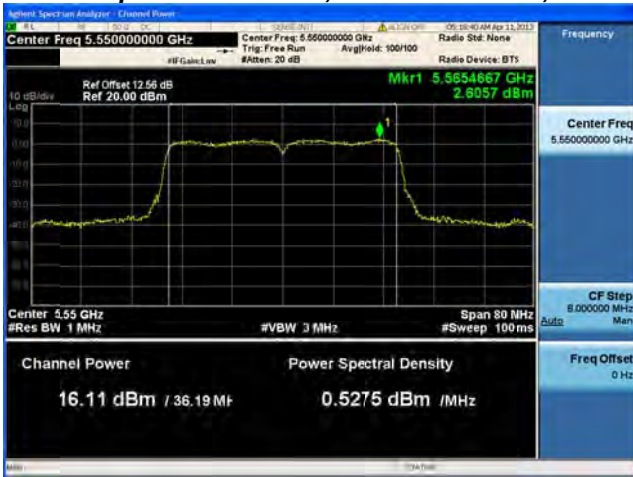
Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**


Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M0 to M7, M0.1 to M9.1


Antenna A



Antenna B



Antenna C



Antenna D

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

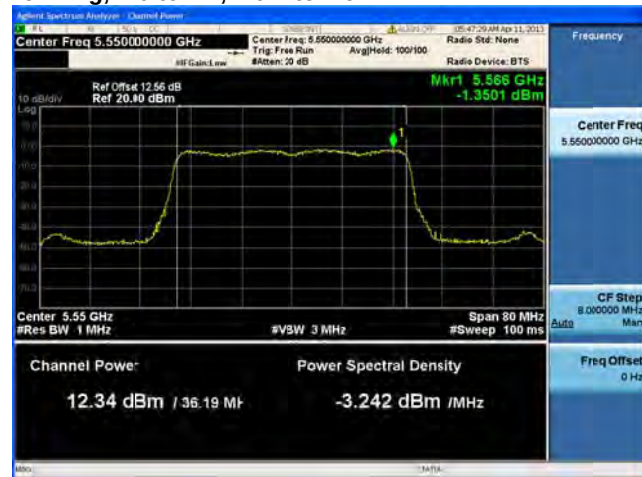
Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2

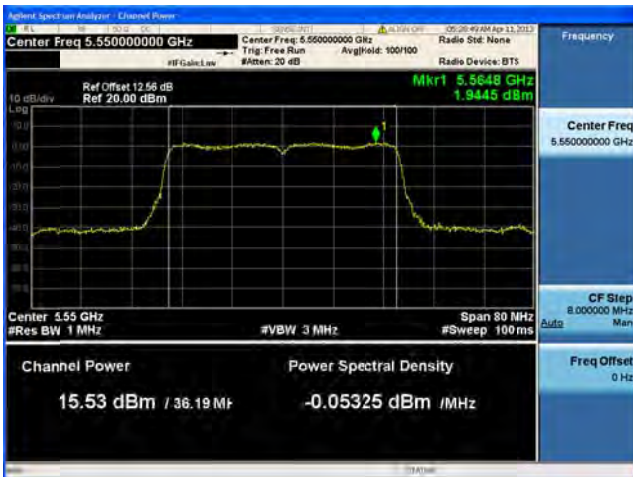


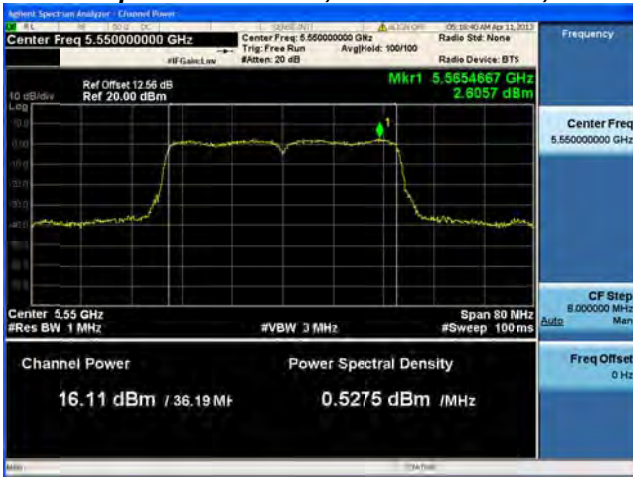
Antenna A

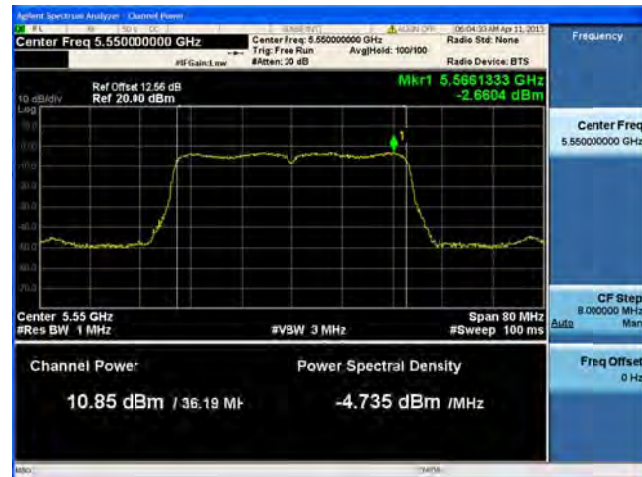


Antenna B

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

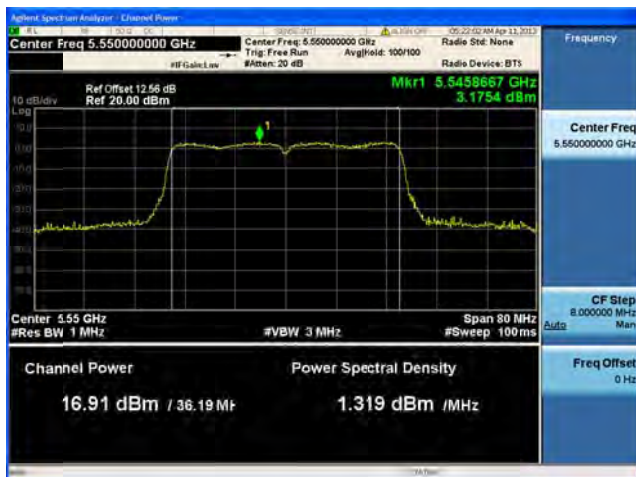
**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

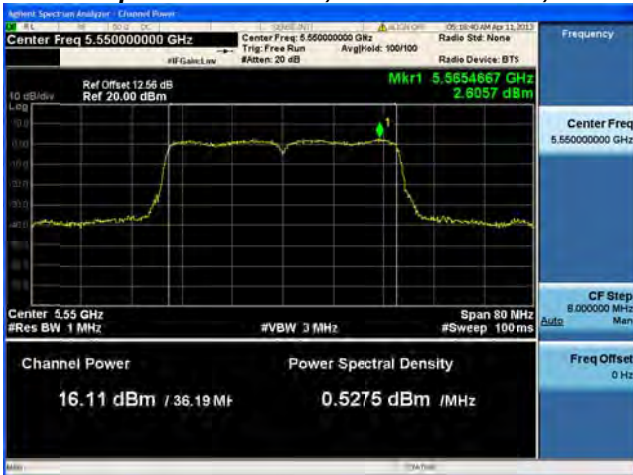
**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

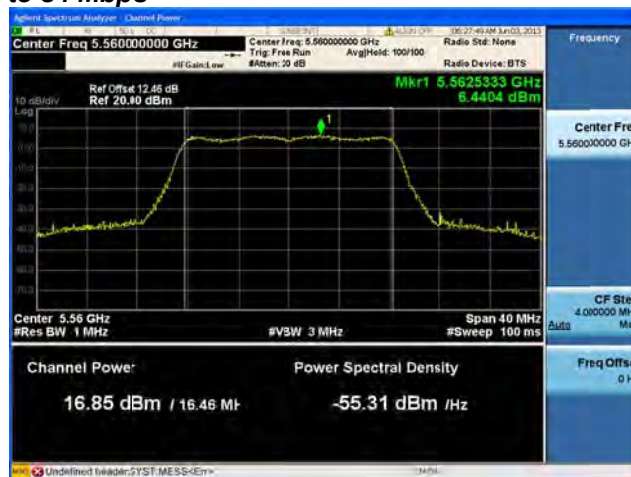
**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C****Antenna D**

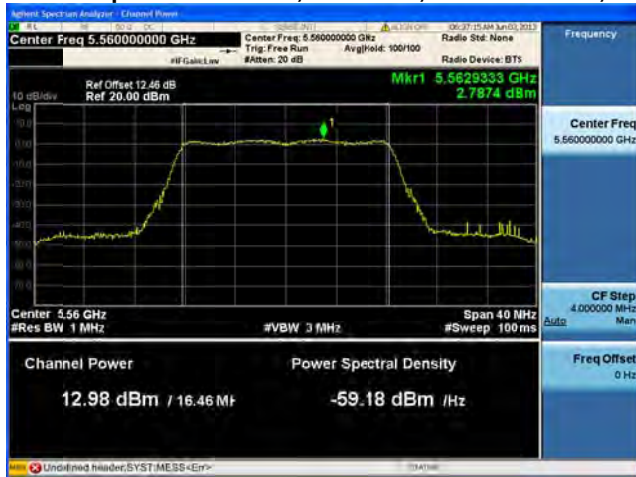
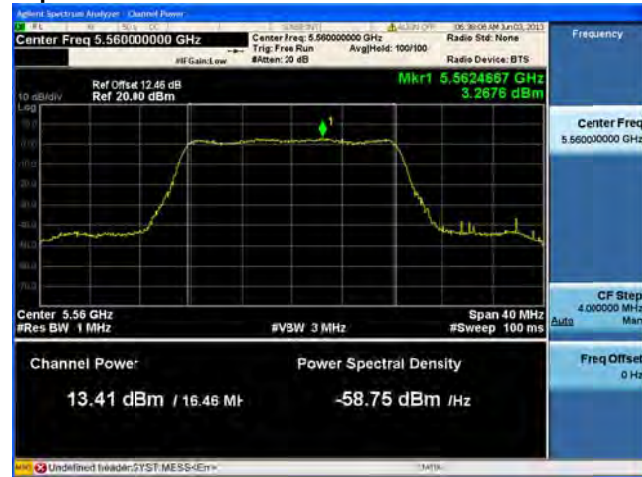
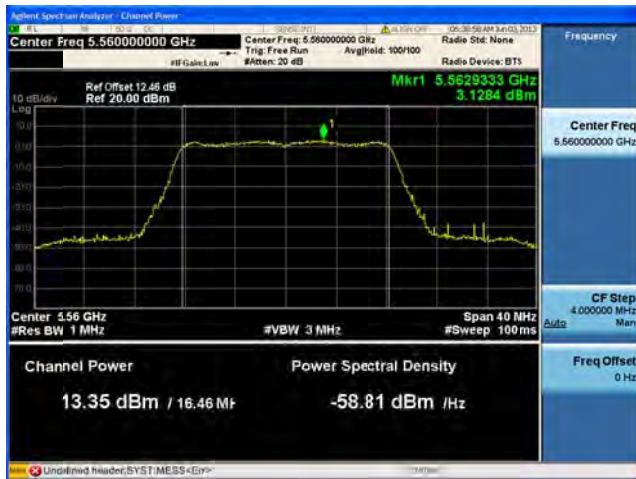
Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

**Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5540 / 5560 MHz, HT/VHT40 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

Peak Output Power / PSD, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**



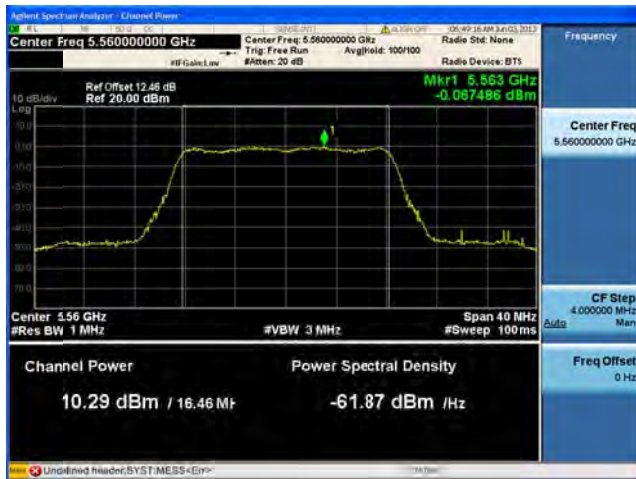
Peak Output Power / PSD, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps



Antenna A



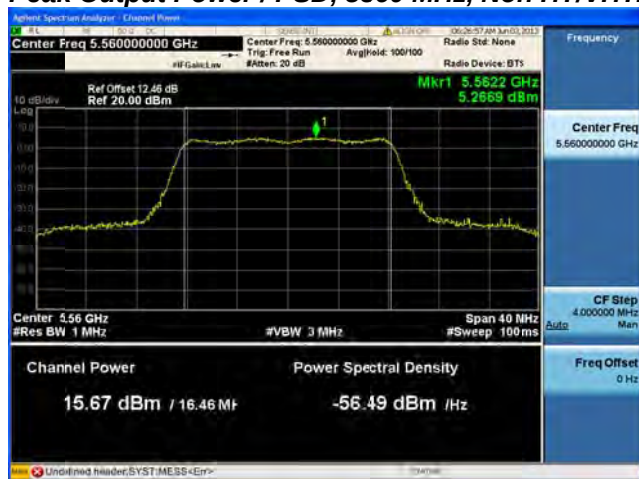
Antenna B

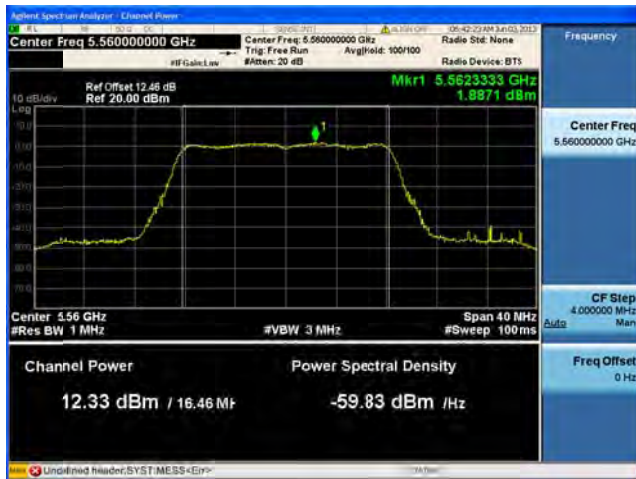


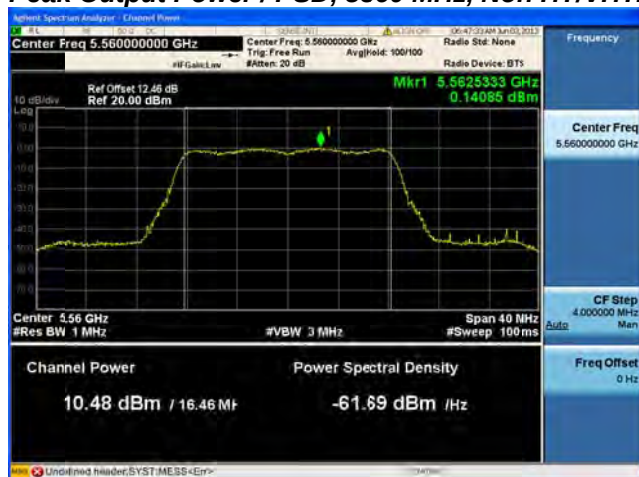
Antenna C



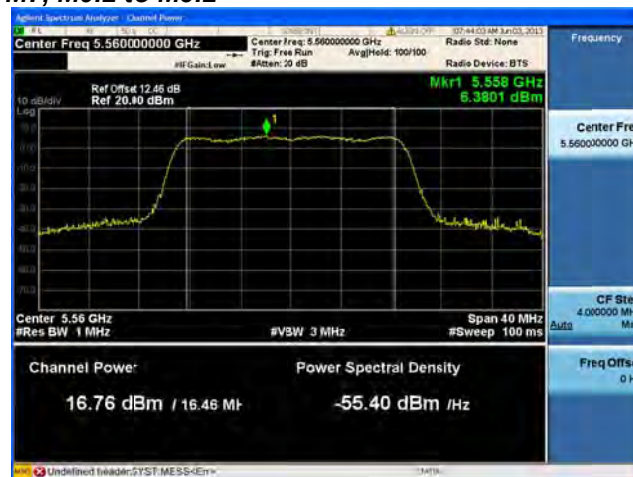
Antenna D

Peak Output Power / PSD, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5560 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

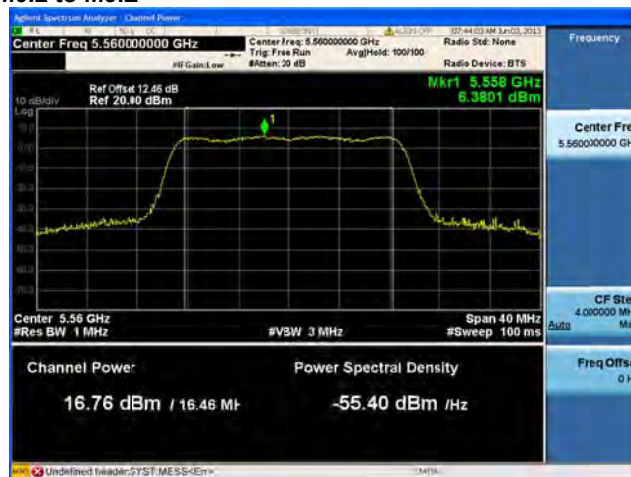
Peak Output Power / PSD, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

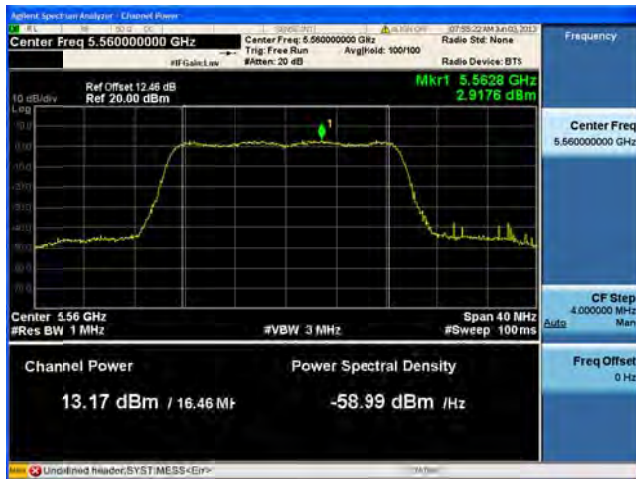
Peak Output Power / PSD, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



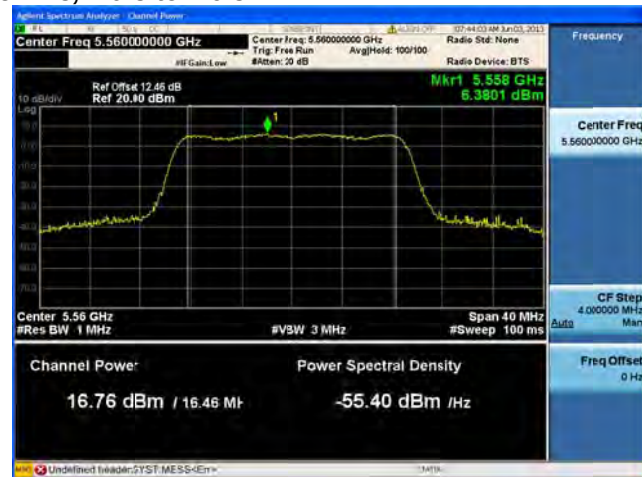
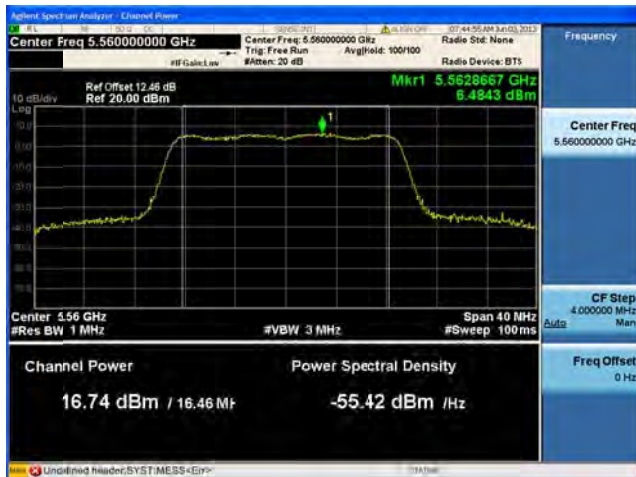
Antenna A



Antenna B

**Peak Output Power / PSD, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5560 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**



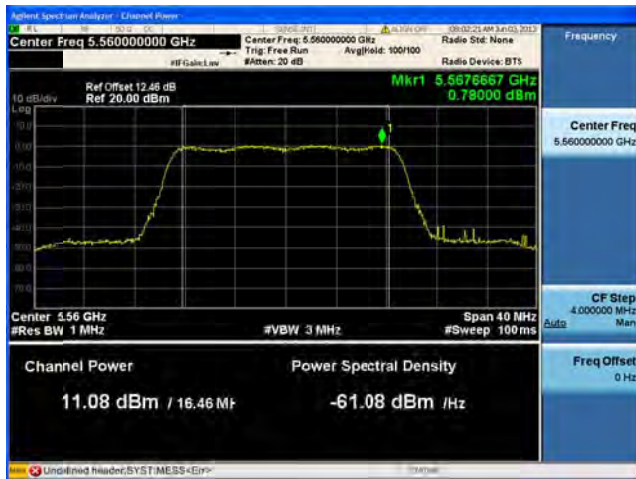
Peak Output Power / PSD, 5560 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C



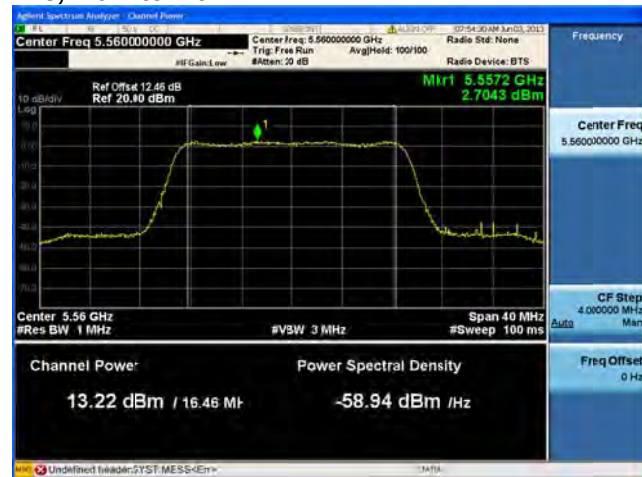
Antenna D



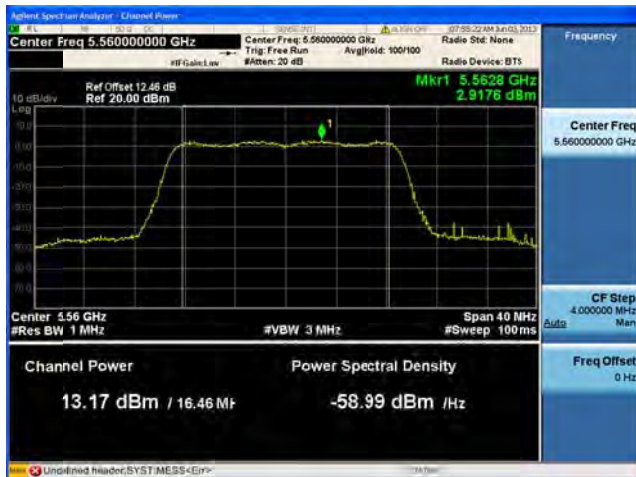
Peak Output Power / PSD, 5560 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



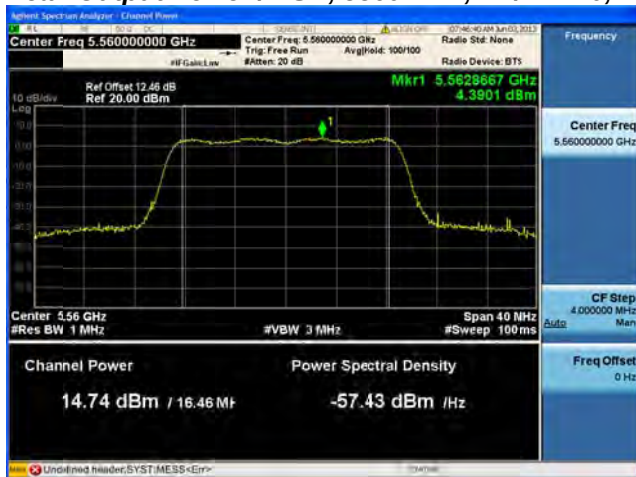
Antenna B



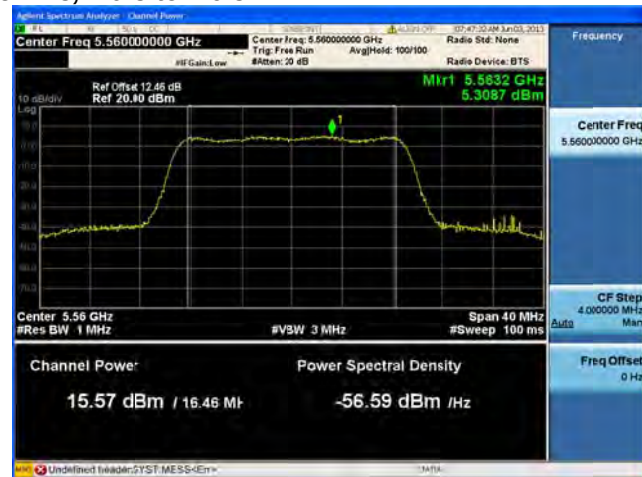
Antenna C



Antenna D

Peak Output Power / PSD, 5560 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3


Antenna A



Antenna B



Antenna C



Antenna D

Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B



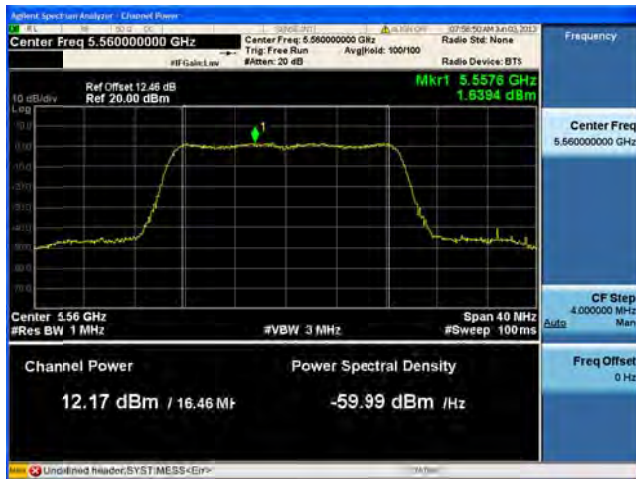
Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1



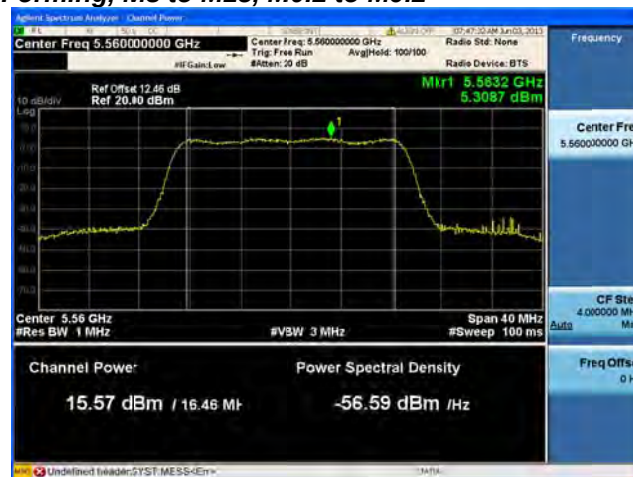
Antenna A



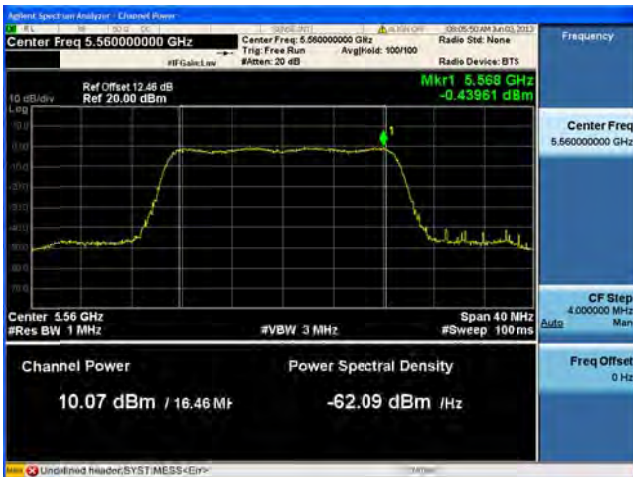
Antenna B

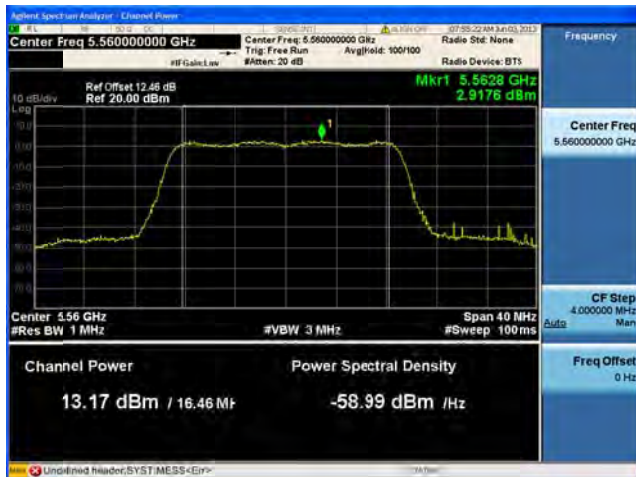


Antenna C

Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**



Peak Output Power / PSD, 5560 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3



Antenna A



Antenna B

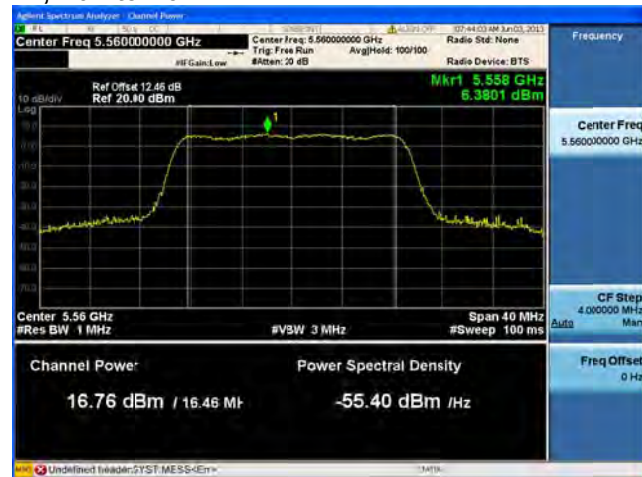


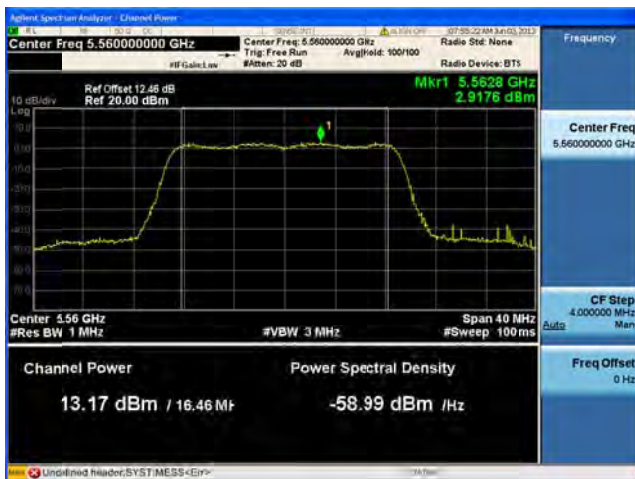
Antenna C



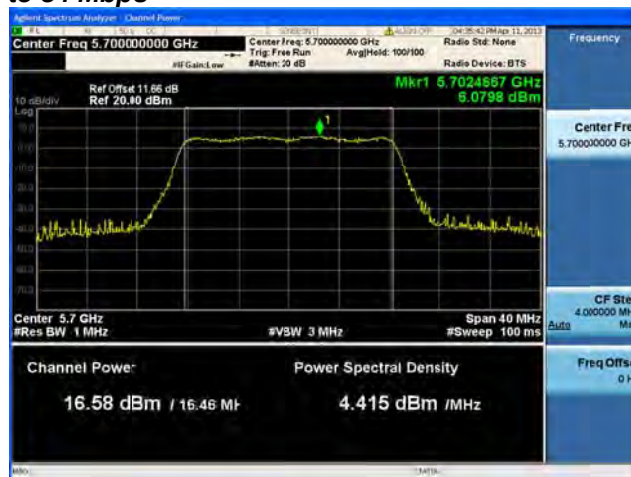
Antenna D

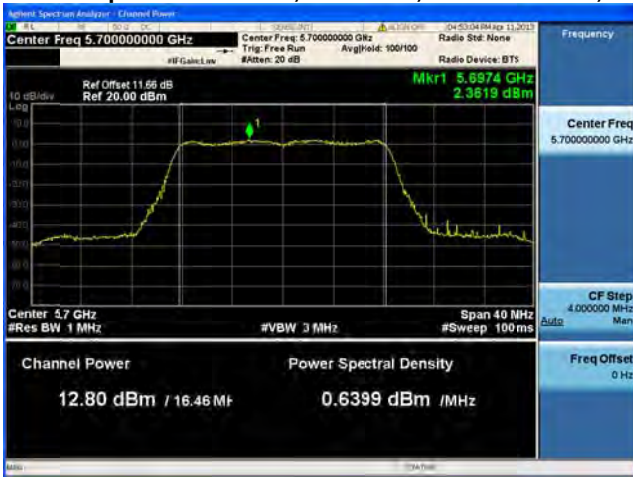
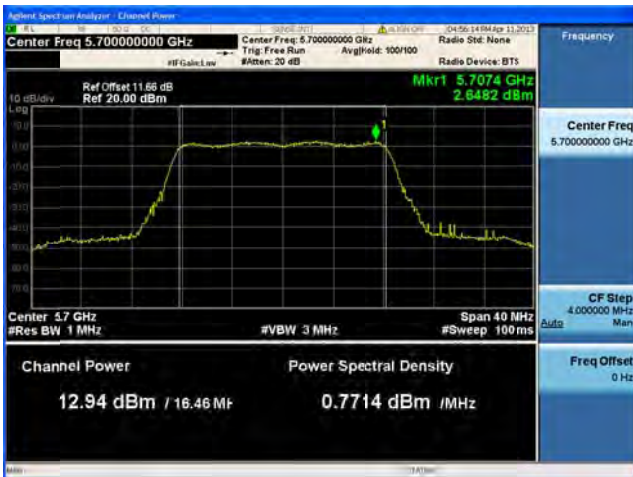
Peak Output Power / PSD, 5560 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

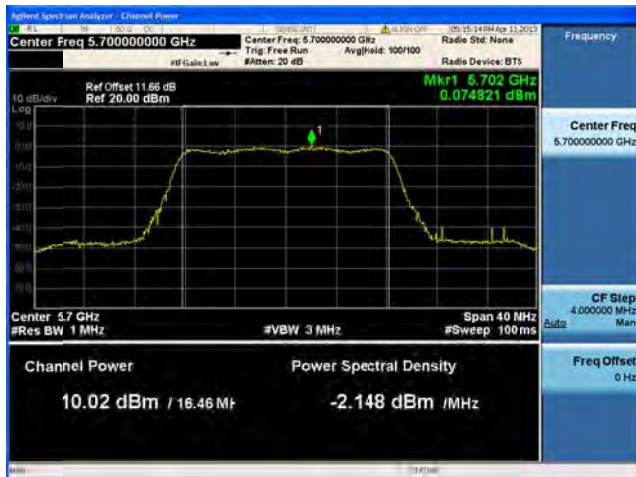
**Peak Output Power / PSD, 5560 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

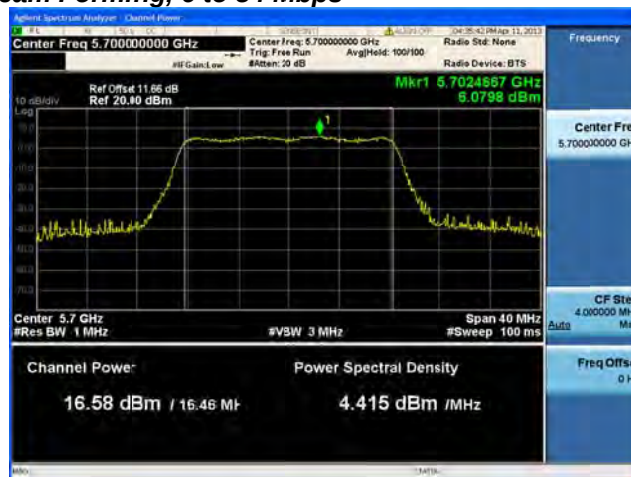
Peak Output Power / PSD, 5560 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A**

Peak Output Power / PSD, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

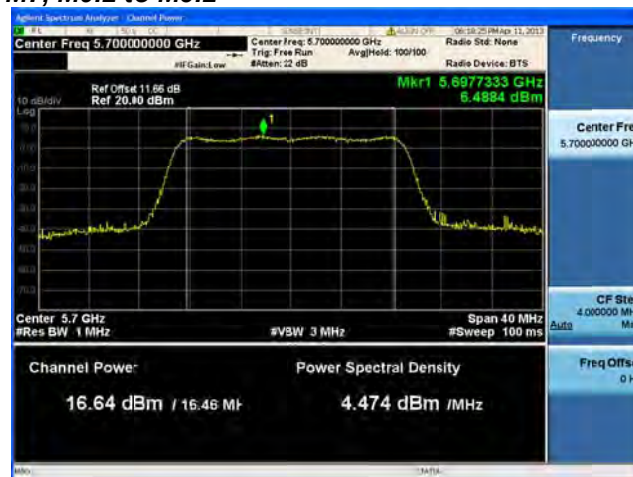
Peak Output Power / PSD, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5700 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B**

**Peak Output Power / PSD, 5700 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5700 MHz, Non HT/VHT20 Beam Forming, 6 to 54 Mbps**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A**

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



Antenna B

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**



Peak Output Power / PSD, 5700 MHz, HT/VHT20, M8 to M15, M0.2 to M9.2



Antenna A



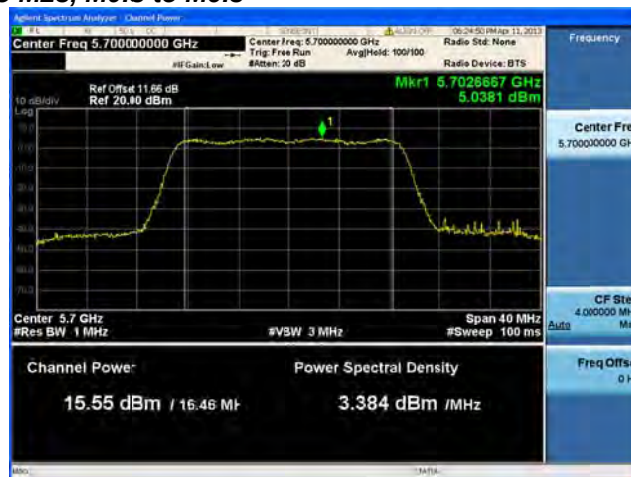
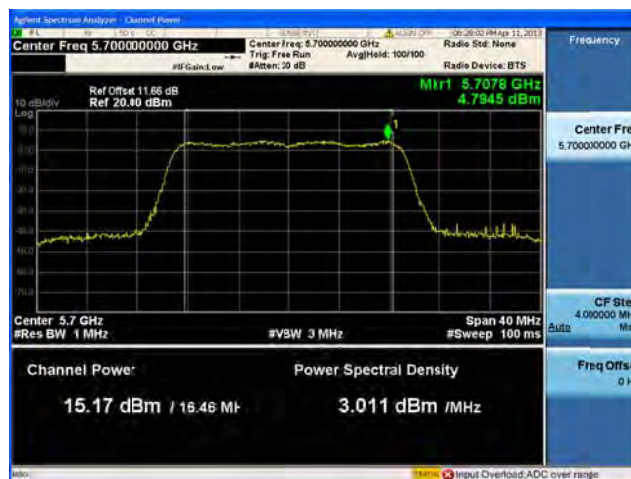
Antenna B

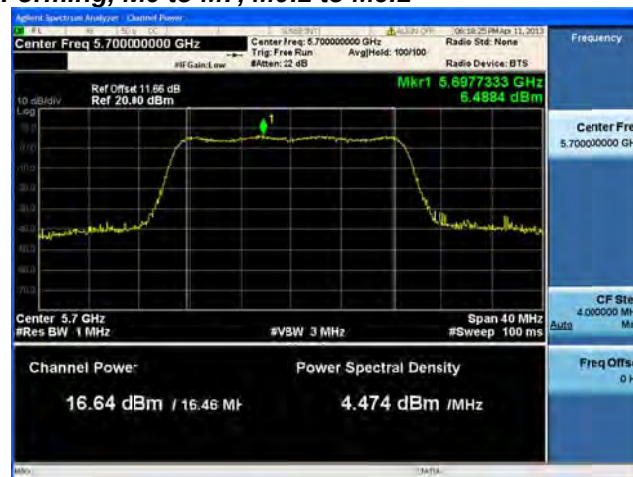


Antenna C



Antenna D

Peak Output Power / PSD, 5700 MHz, HT/VHT20, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2



Antenna A

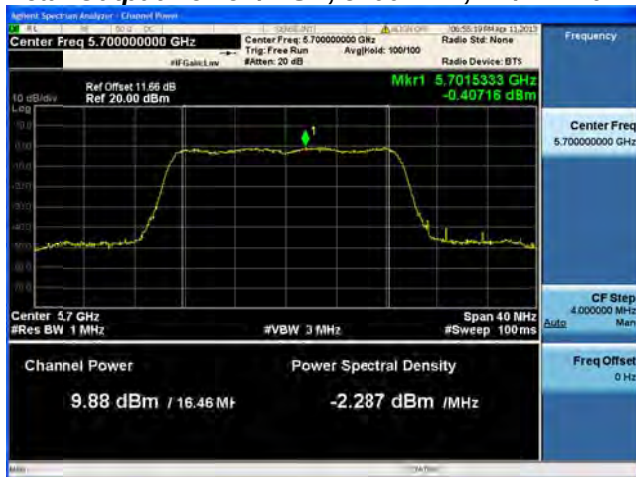


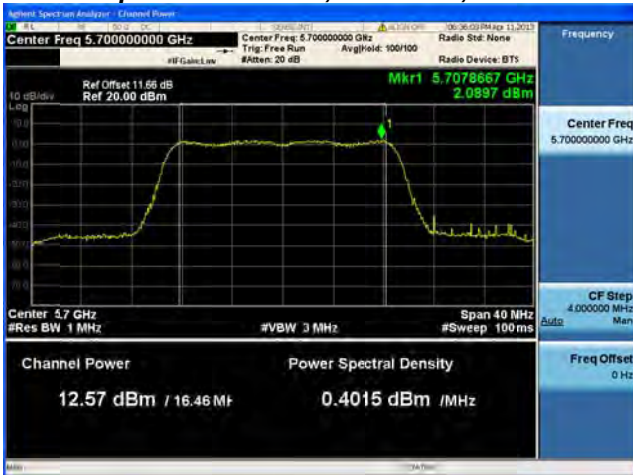
Antenna B

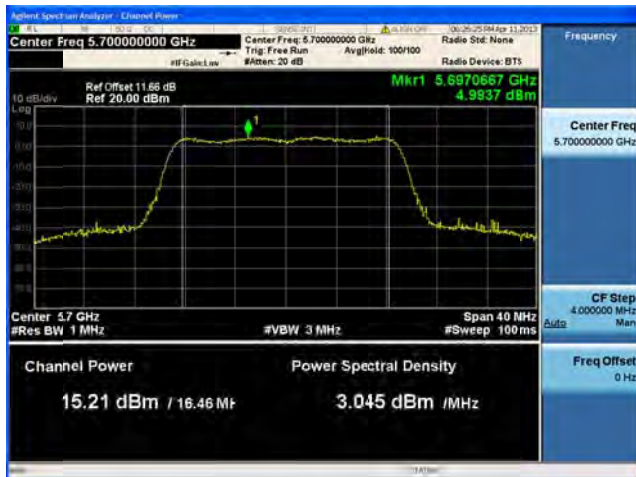
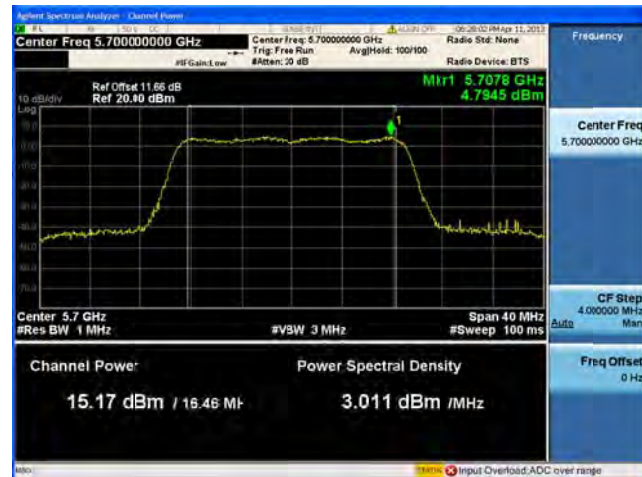
**Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C**

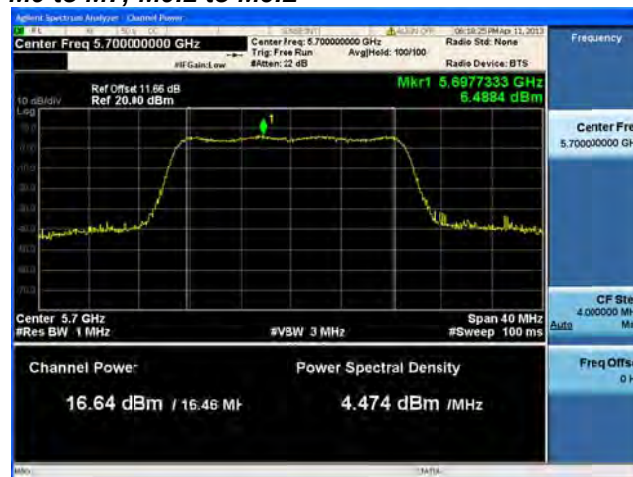
Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2**Antenna A****Antenna B****Antenna C**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3****Antenna A****Antenna B****Antenna C**

Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B****Antenna C****Antenna D**

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M8 to M15, M0.2 to M9.2****Antenna A****Antenna B****Antenna C****Antenna D**

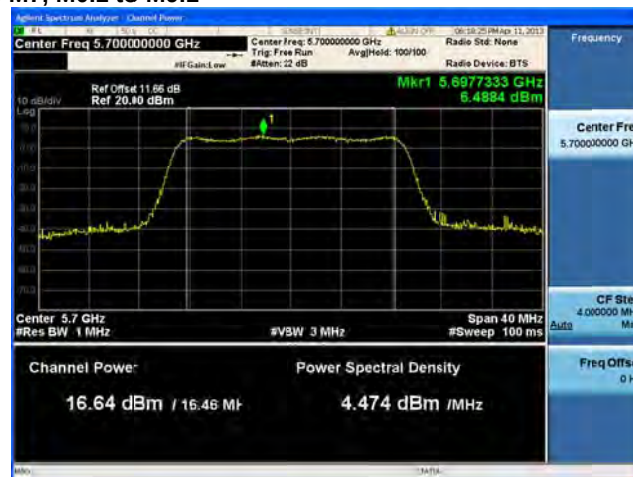
Peak Output Power / PSD, 5700 MHz, HT/VHT20 Beam Forming, M16 to M23, M0.3 to M9.3**Antenna A****Antenna B****Antenna C****Antenna D**

Peak Output Power / PSD, 5700 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1**Antenna A****Antenna B**

Peak Output Power / PSD, 5700 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1



Antenna A



Antenna B



Antenna C

**Peak Output Power / PSD, 5700 MHz, HT/VHT20 STBC, M0 to M7, M0.1 to M9.1****Antenna A****Antenna B****Antenna C****Antenna D**



Conducted Spurious Emissions

15.407: For transmitters operating in the 5.25-5.35 and 5.47-5.725 GHz band: all emissions outside of the 5.25-5.35 and 5.47-5.725 GHz bands shall not exceed an EIRP of -27dBm/MHz.

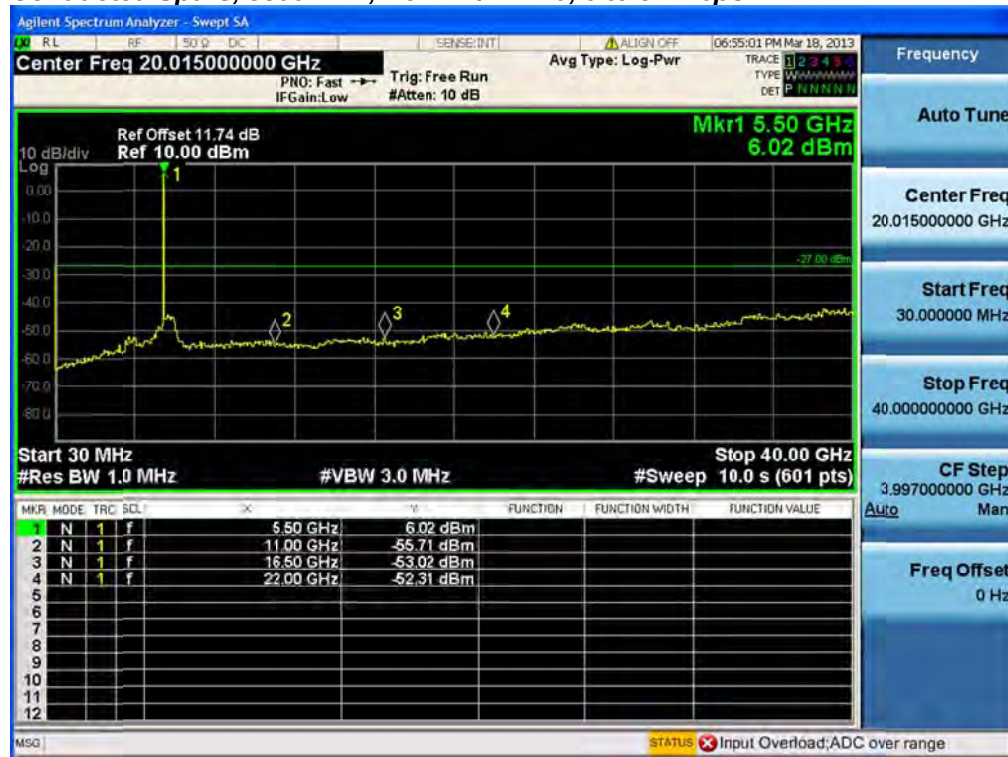
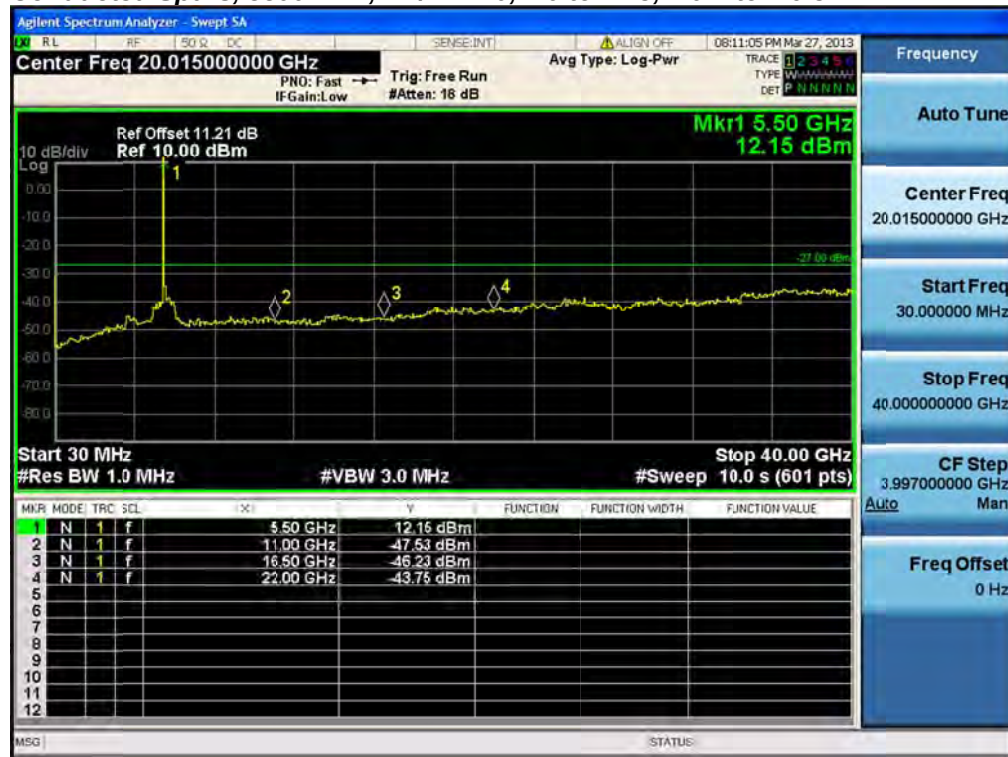
Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

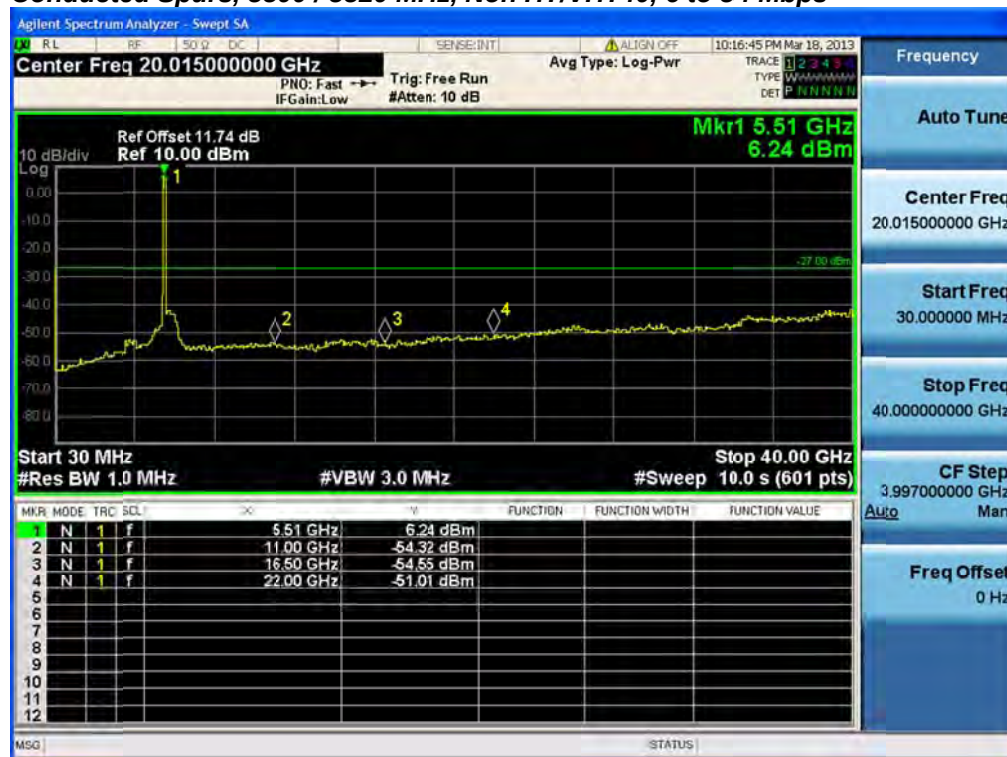
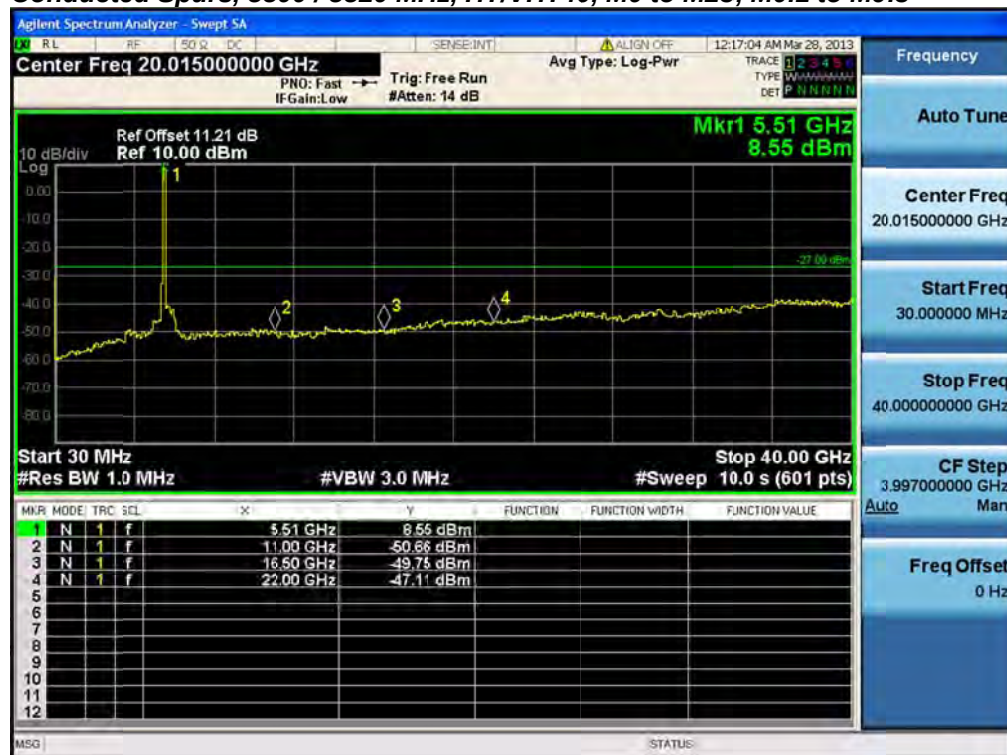
Span:	30 MHz-40 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	10 s
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Peak
Trace:	Single
Marker:	Peak

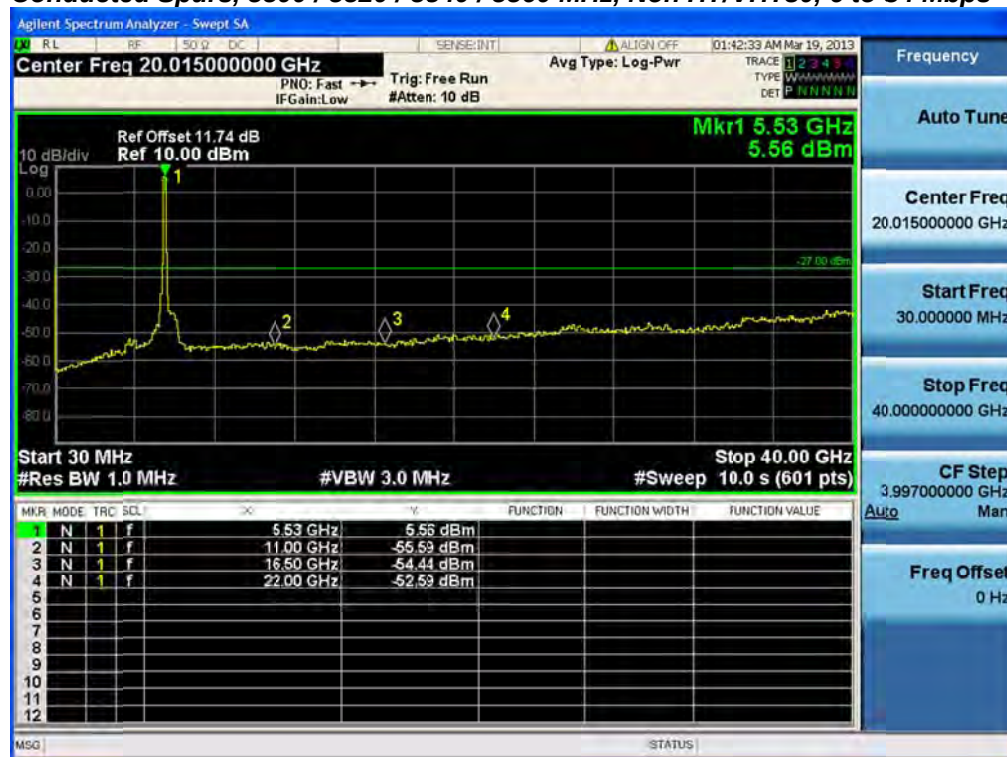
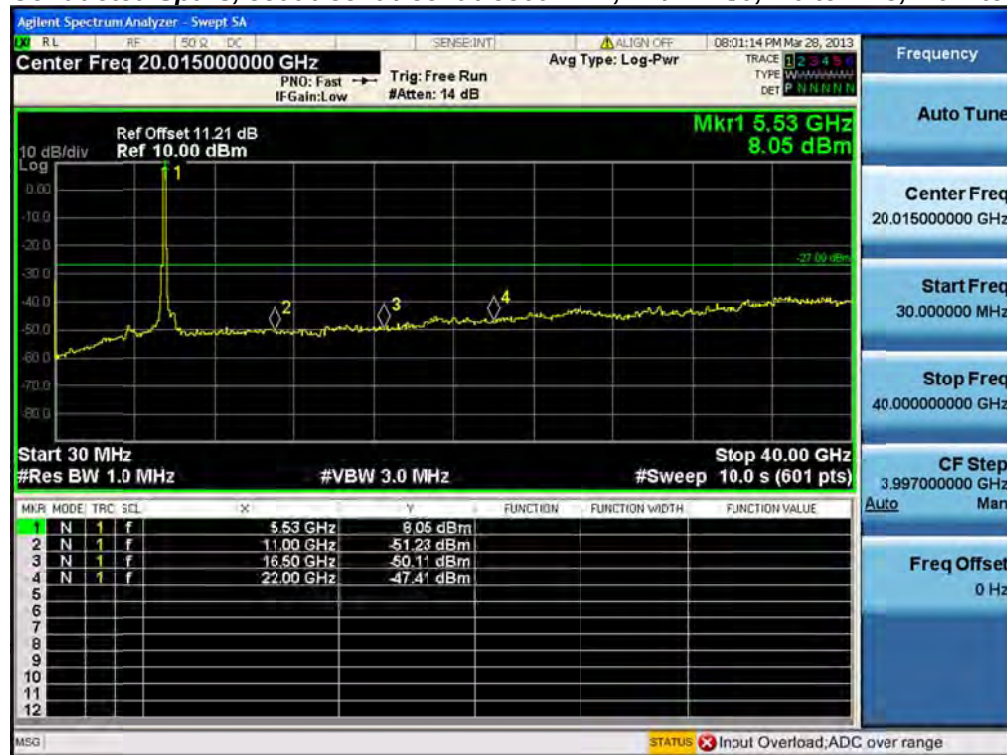
Record the marker waveform peak to spur difference

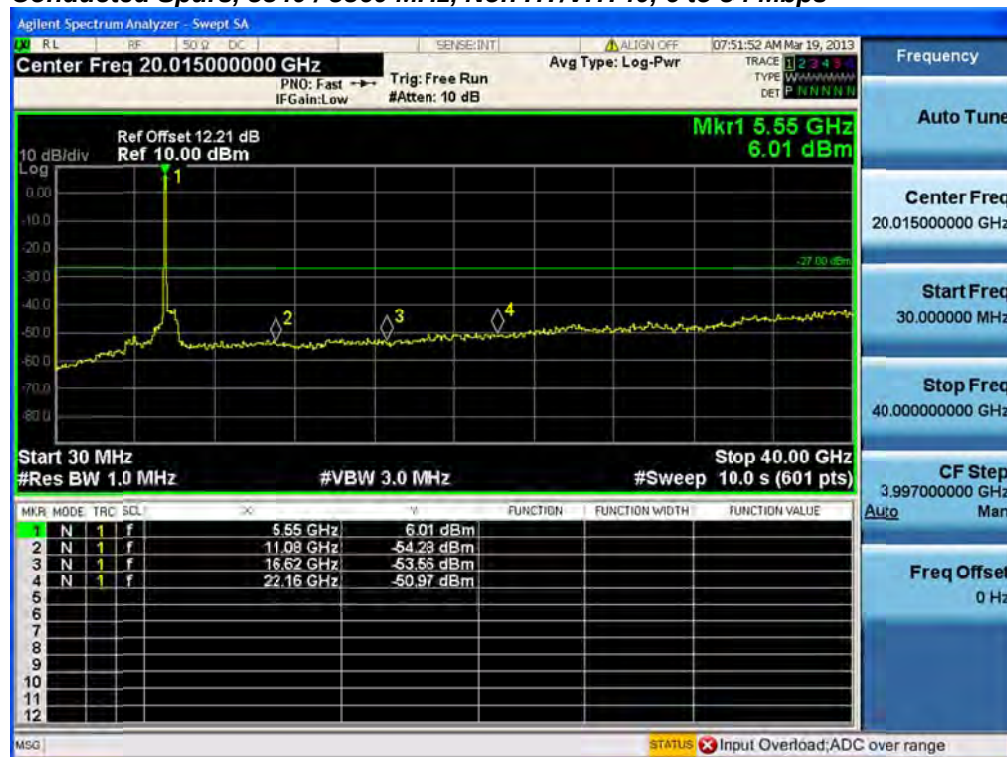
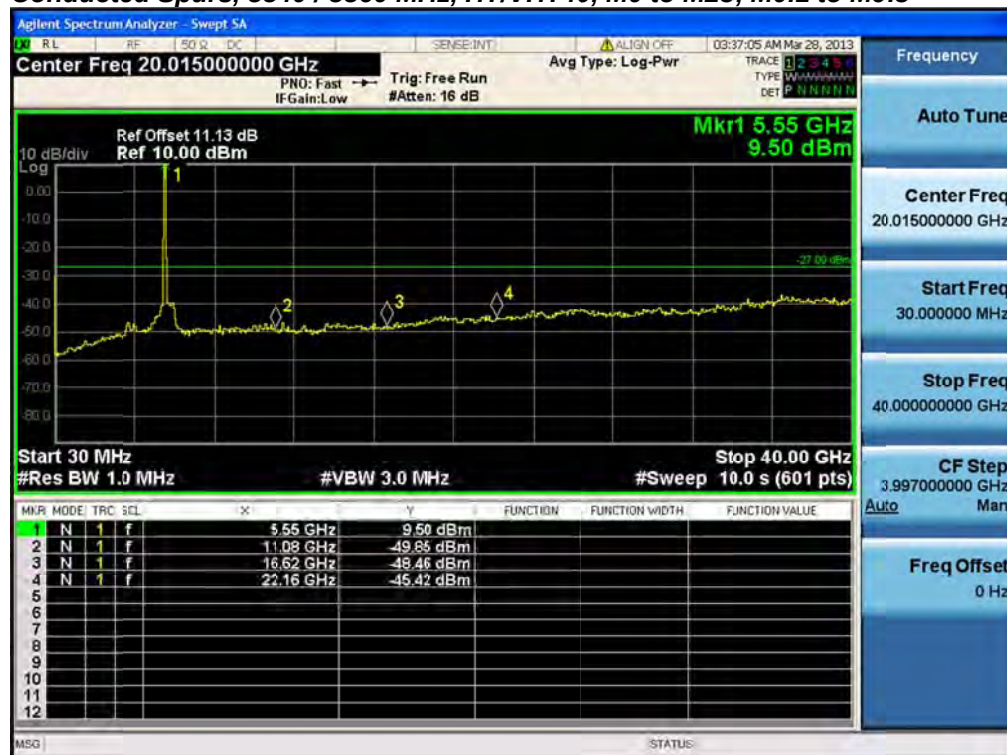


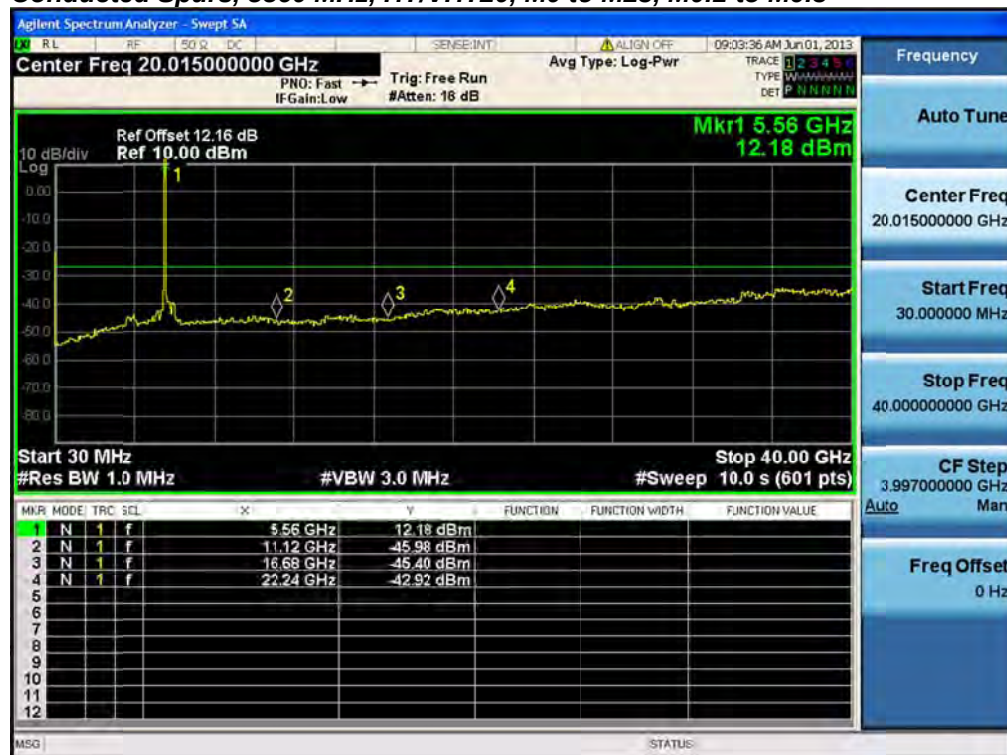
Frequency (MHz)	Mode	Data Rate (Mbps)	Conducted Spurs Delta (MHz)	Limit (kHz)	Margin (MHz)
5500	Non HT/VHT20, 6 to 54 Mbps	2	10	<u>-52.3</u>	-39.3
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-43.8</u>	-35.0
5500/5520	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>-51</u>	-47.0
	HT/VHT40, M0 to M23, M0.1 to M9.3	4	4	<u>-47.1</u>	-37.1
5500/5520 5540/5560	Non HT/VHT80, 6 to 54 Mbps	1	4	<u>-52.6</u>	-48.6
	HT/VHT80, M0 to M23, M0.1 to M9.3	3	4	<u>-47.4</u>	-38.6
5540/5560	Non HT/VHT40, 6 to 54 Mbps	1	4	<u>-51</u>	-47.0
	HT/VHT40, M0 to M23, M0.1 to M9.3	3	4	<u>-45.4</u>	-36.6
5560	Non HT/VHT20, 6 to 54 Mbps	2	10	<u>-48.9</u>	-35.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-42.9</u>	-34.1
5700	Non HT/VHT20, 6 to 54 Mbps	2	10	<u>-50.5</u>	-37.5
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-44</u>	-35.2

Conducted Spurs, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Spurs, 5500 / 5520 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Spurs, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**Conducted Spurs, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

**Conducted Spurs, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps****Conducted Spurs, 5540 / 5560 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Spurs, 5560 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs, 5560 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Conducted Spurs, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Spurs, 5700 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**



Conducted Bandedge

15.407: For transmitters operating in the 5.25-5.35 and 5.47-5.725 GHz band: all emissions outside of the 5.25-5.35 and 5.47-5.725 GHz bands shall not exceed an EIRP of -27dBm/MHz.

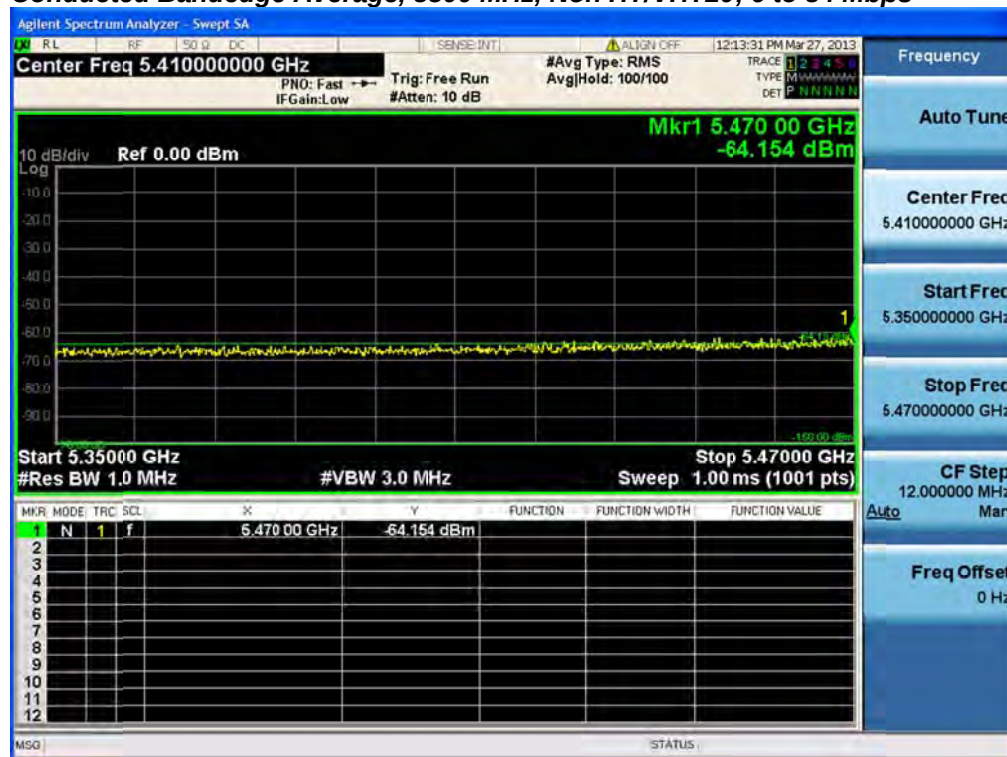
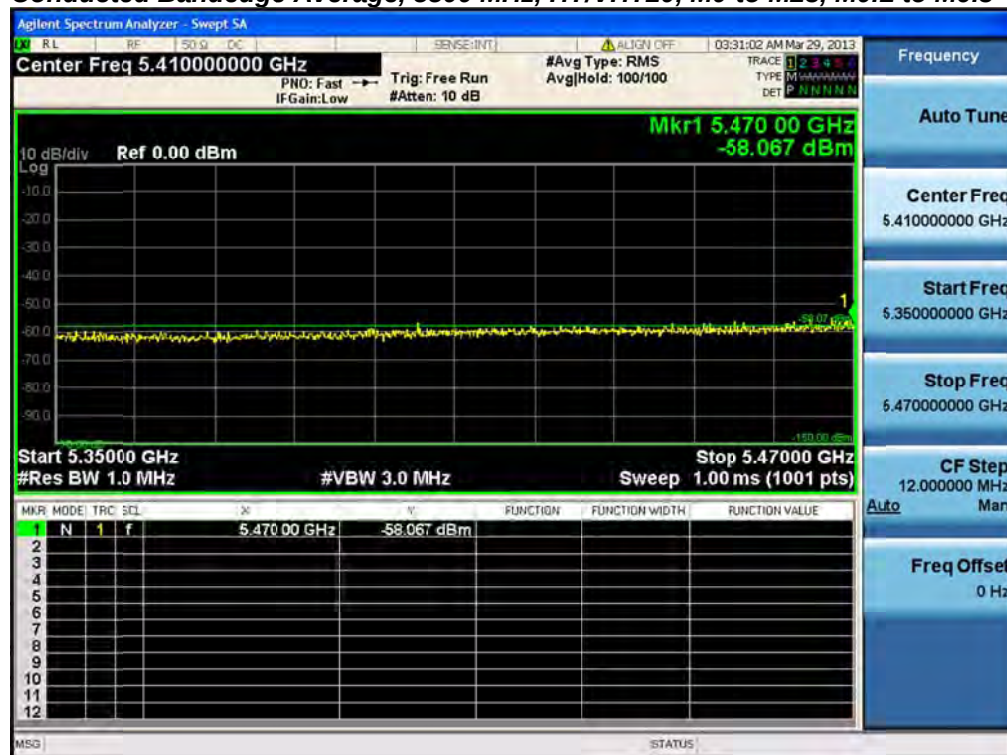
Connect the antenna port(s) to the spectrum analyzer input. Place the radio in continuous transmit mode. Configure the spectrum analyzer as shown below (be sure to enter all losses between the transmitter output and the spectrum analyzer).

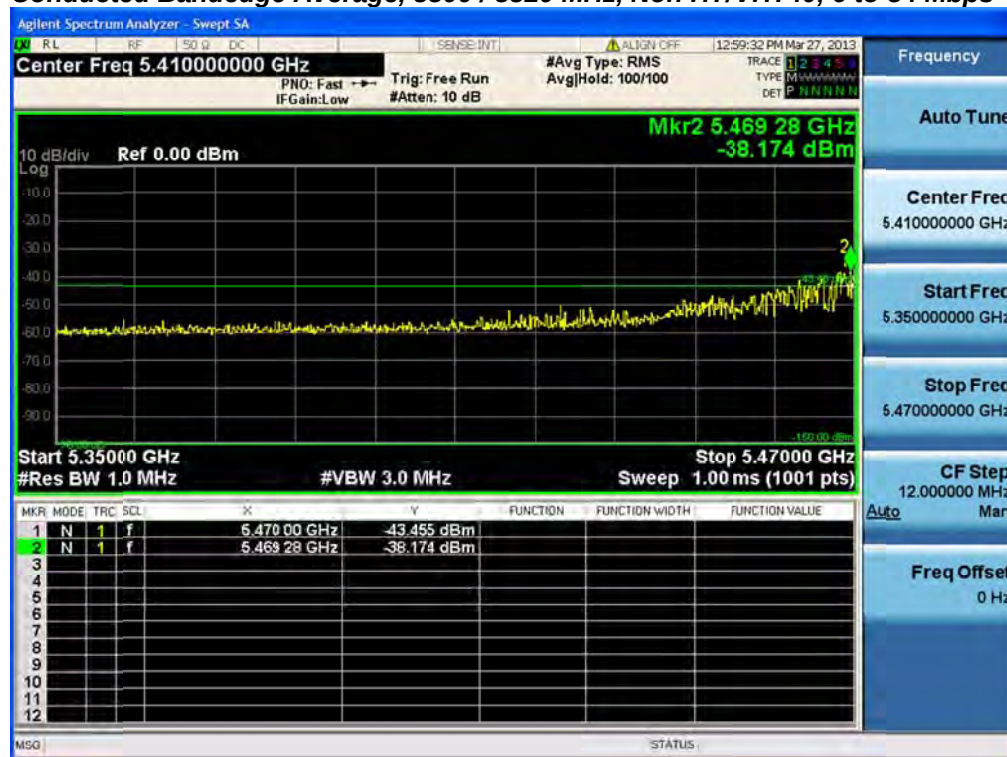
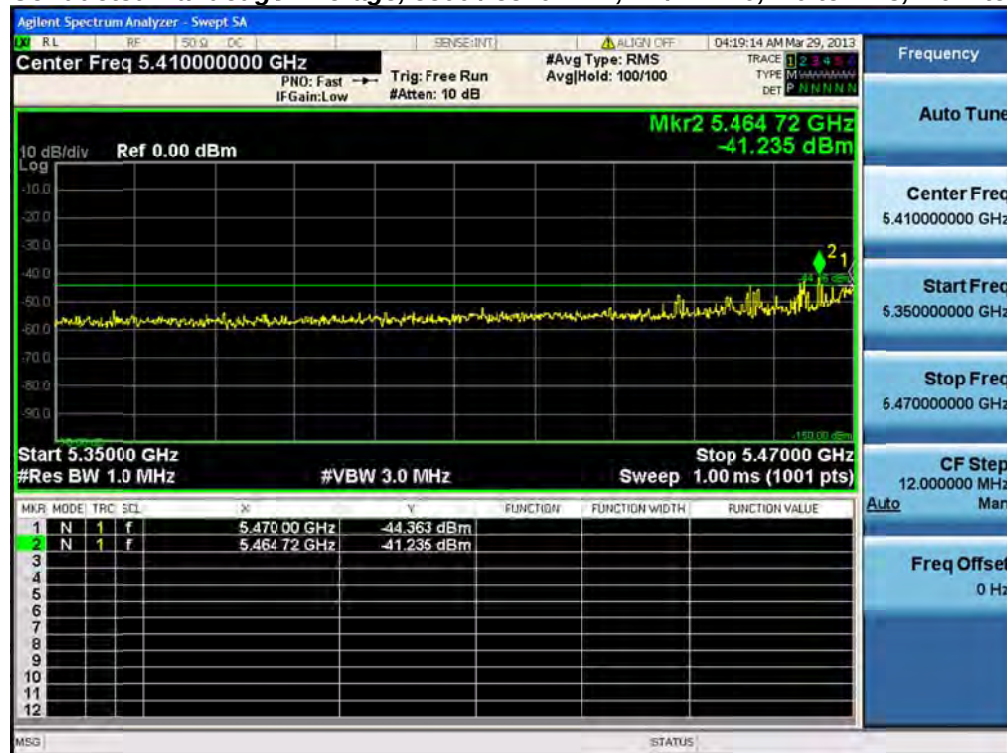
Span:	30 MHz-40 GHz
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	10 s
Resolution Bandwidth:	1 MHz
Video Bandwidth:	3 MHz
Detector:	Peak
Trace:	Single
Marker:	Peak

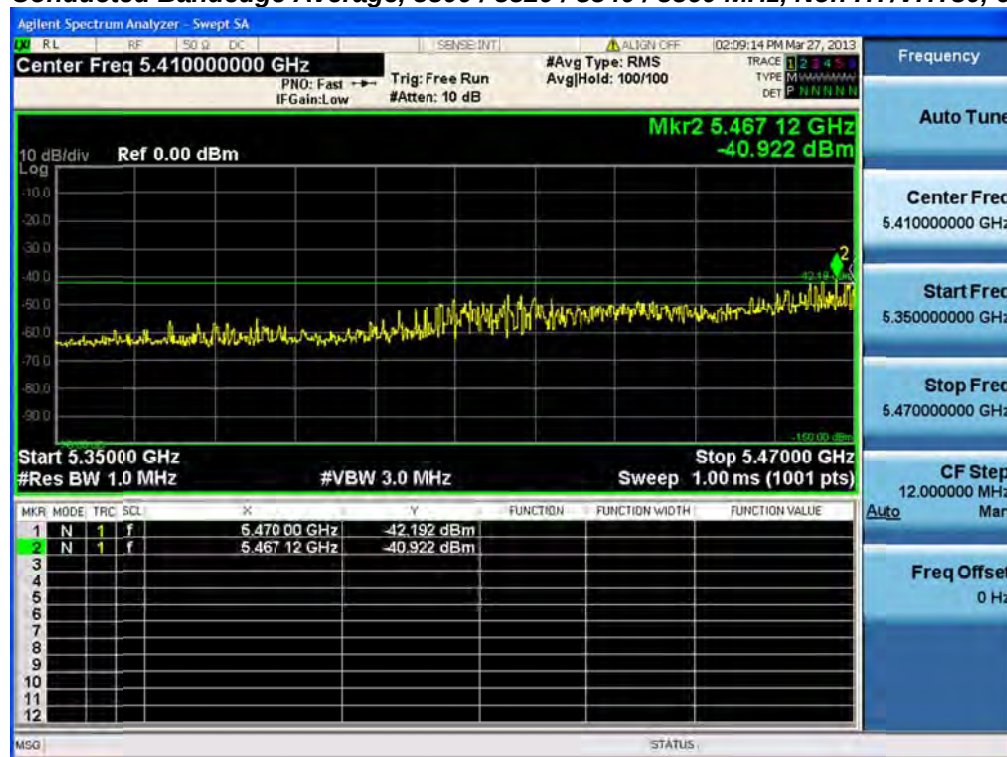
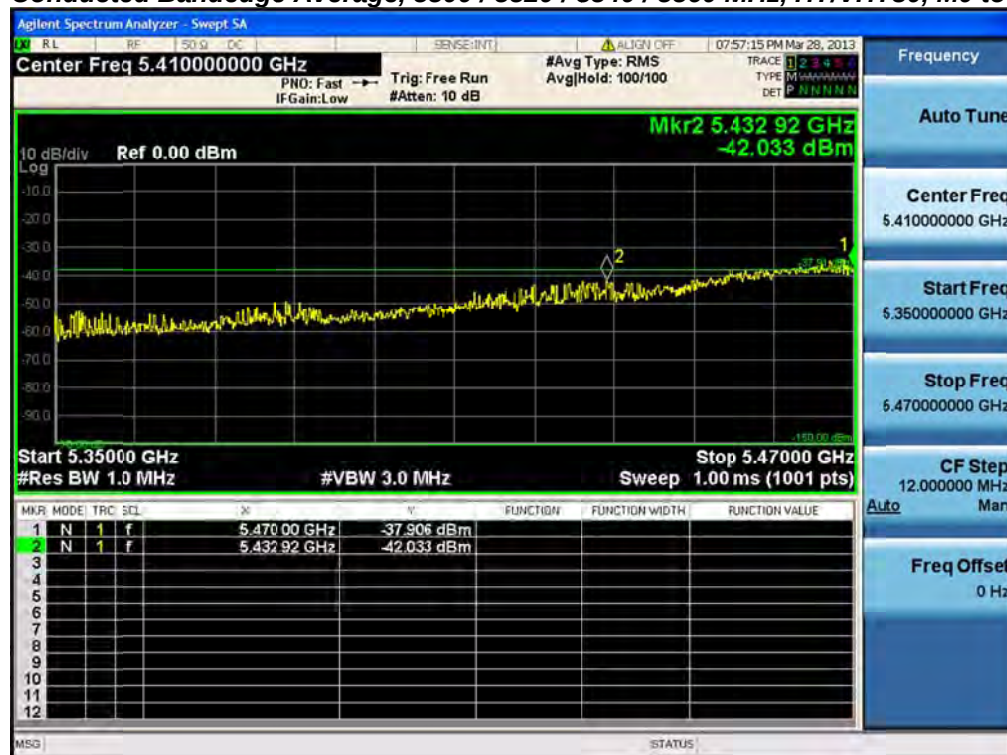
Record the marker waveform peak to spur difference

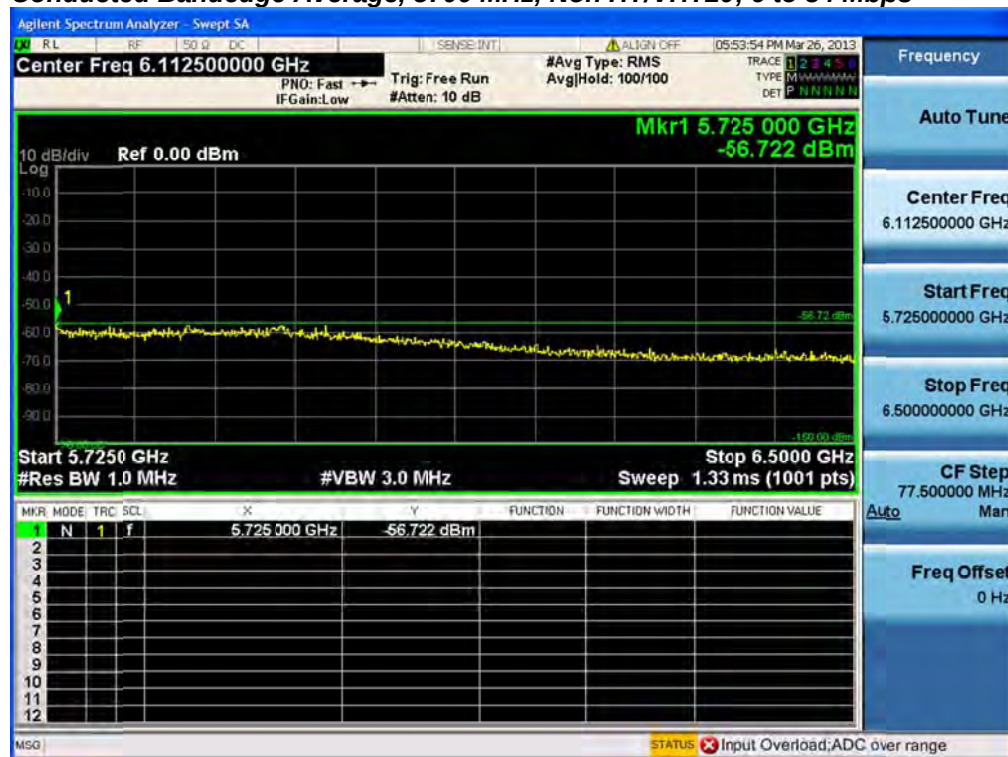
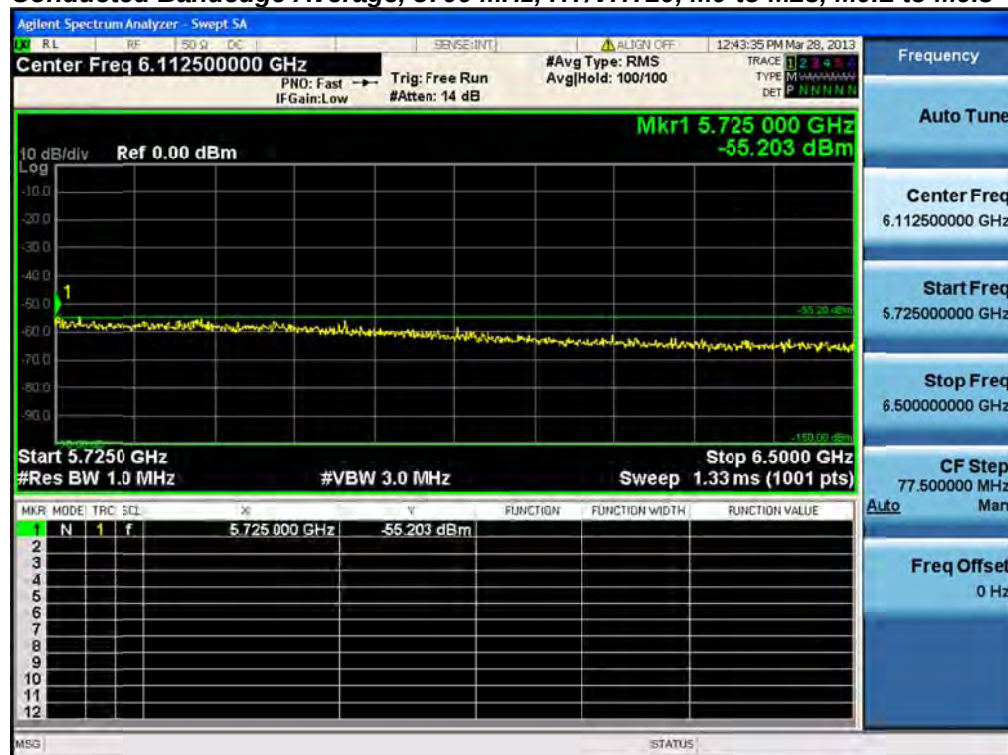


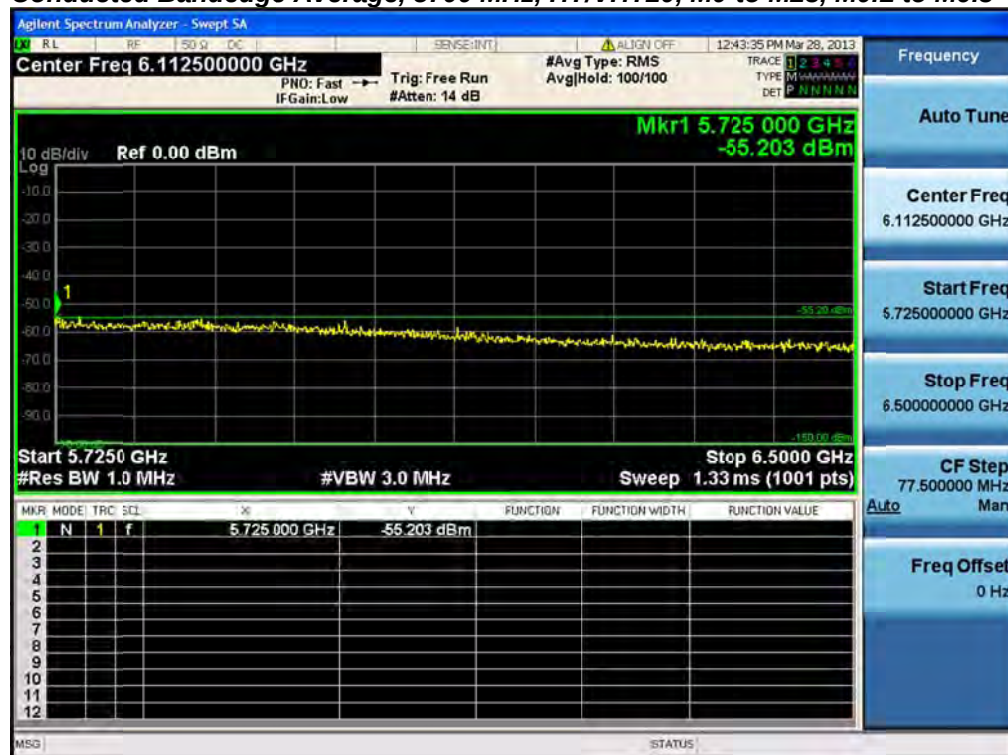
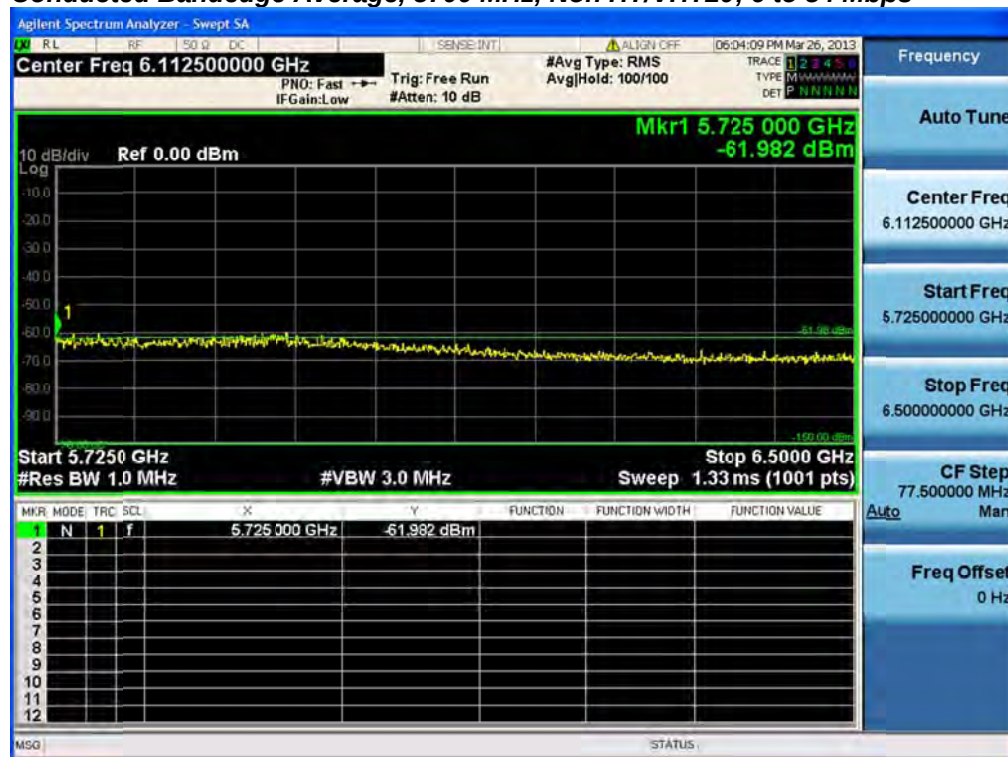
Frequency (MHz)	Mode	Data Rate (Mbps)	Correlated Antenna Gain (dBi)	Conducted Bandedge Level (dBm/MHz)	Total Bandedge Level (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)
5500	Non HT/VHT20, 6 to 54 Mbps	4	4	<u>-64.2</u>	-54.2	-27	27.2
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-58.1</u>	-49.3	-27	22.3
5500/5520	Non HT/VHT40, 6 to 54 Mbps	3	4	<u>-38.2</u>	-29.4	-27	2.4
	HT/VHT40, M0 to M23, M0.1 to M9.3	3	4	<u>-41.2</u>	-32.4	-27	5.4
5500/5520 5540/5560	Non HT/VHT80, 6 to 54 Mbps	3	4	<u>-40.9</u>	-32.1	-27	5.1
	HT/VHT80, M0 to M23, M0.1 to M9.3	2	4	<u>-37.9</u>	-30.9	-27	3.9
5700	Non HT/VHT20, 6 to 54 Mbps	3	4	<u>-56.7</u>	-47.9	-27	20.9
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-55.2</u>	-46.4	-27	19.4
5700	Non HT/VHT20, 6 to 54 Mbps	4	4	<u>-62</u>	-52.0	-27	25.0
	HT/VHT20, M0 to M23, M0.1 to M9.3	3	4	<u>-55.2</u>	-46.4	-27	19.4

Conducted Bandedge Average, 5500 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Bandedge Average, 5500 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5500 / 5520 MHz, Non HT/VHT40, 6 to 54 Mbps**Conducted Bandedge Average, 5500 / 5520 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**Conducted Bandedge Average, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

Conducted Bandedge Average, 5700 MHz, Non HT/VHT20, 6 to 54 Mbps**Conducted Bandedge Average, 5700 MHz, HT/VHT20, M0 to M23, M0.1 to M9.3**





20dB Bandwidth

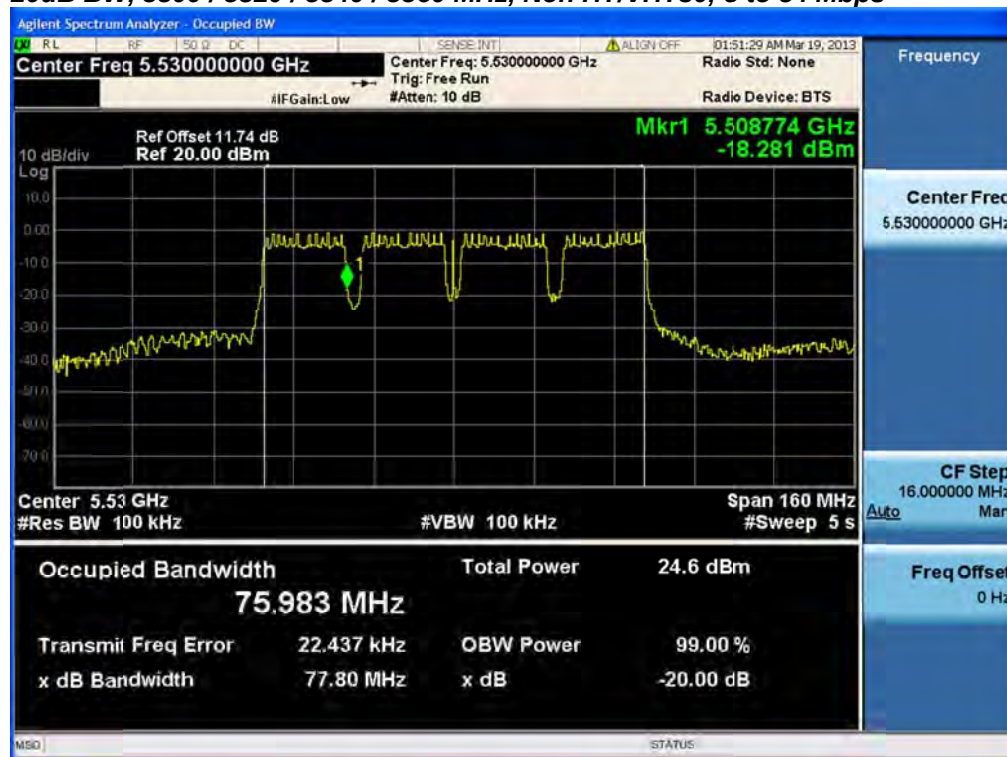
Connect the antenna port(s) to the spectrum analyzer input. Using the spectrum analyzer Channel Bandwidth mode, configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

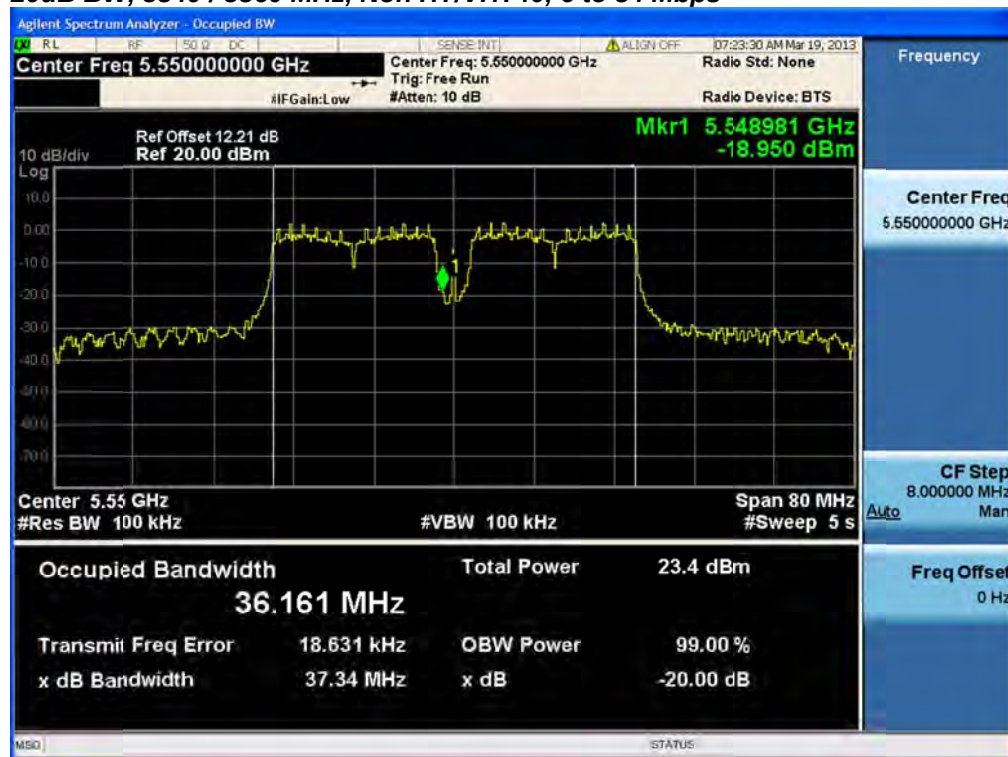
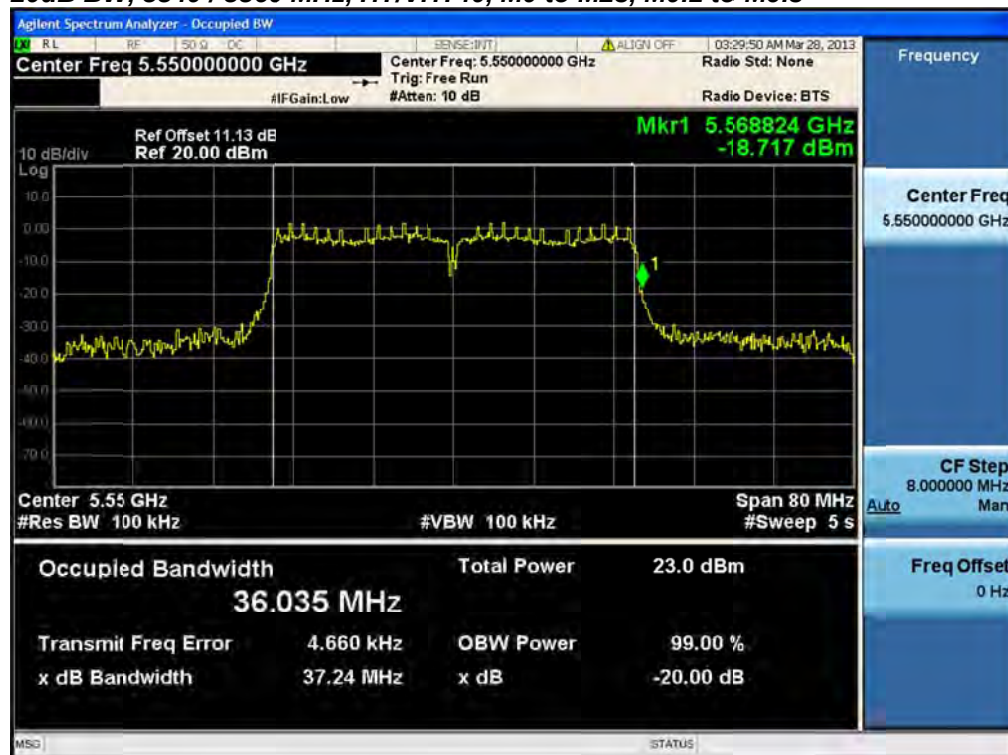
Center Frequency:	Frequency from table below
Span:	2 x Nominal Bandwidth (e.g. 40MHz for a 20MHz channel)
Reference Level:	20 dBm
Attenuation:	10 dB
Sweep Time:	5 s
Resolution Bandwidth:	1%-3% of 20 dB Bandwidth
Video Bandwidth:	≥Resolution Bandwidth
X dB Bandwidth:	20 dB
Detector:	Peak
Trace:	Single

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)	20dB BW (MHz)	Limit (kHz)	Margin (MHz)
5500/5520	Non HT/VHT80, 6 to 54 Mbps	6	<u>5509</u>	5600	91
5540/5560	HT/VHT80, M0 to M23, M0.1 to M9.3	m0x1	<u>5569</u>	5600	31
5540/5560	Non HT/VHT40, 6 to 54 Mbps	6	<u>5549</u>	5600	51
	HT/VHT40, M0 to M23, M0.1 to M9.3	m0	<u>5569</u>	5600	31

20dB BW, 5500 / 5520 / 5540 / 5560 MHz, Non HT/VHT80, 6 to 54 Mbps**20dB BW, 5500 / 5520 / 5540 / 5560 MHz, HT/VHT80, M0 to M23, M0.1 to M9.3**

20dB BW, 5540 / 5560 MHz, Non HT/VHT40, 6 to 54 Mbps**20dB BW, 5540 / 5560 MHz, HT/VHT40, M0 to M23, M0.1 to M9.3**

Maximum Permissible Exposure (MPE) Calculations

15.407: 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 4 dBi. Using the peak power levels recorded in the test report along with Equation 1 above, the MPE distances are calculated as follows.

Frequency (MHz)	Bit Rate (Mbps)	Power Density (mW/cm ²)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	MPE Distance (cm)	Limit (cm)	Margin (cm)
5540/5560	M8	1	22.7	4	6.10	20	13.90

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)	Bit Rate (Mbps)	MPE Distance (cm)	Peak Transmit Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Margin (mW/cm ²)
5540/5560	M8	20	22.7	4	0.09	1	0.91



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

Equip #	Manufacturer	Model	Description	Last Cal	Next Due
CIS049381	Agilent	N9030A	Spectrum Analyzer	28-Aug-12	28-Aug-13