



FCC 47 CFR PART 15 SUBPART E

for

OTT Set Top Box

Model: T8023K, ROS 6000, 6000

Brand: TONLY, Prodea, ROS

Test Report Number:

C160621Z01-RP1-4

Issued Date: November 14, 2016

Issued for

TCL Technoly Electronics(Huizhou) CO., Ltd

**Section 37, Zhongkai High-tech Development Zone, Huizhou City,
Guangdong Province, China 516006**

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TESTING CERT #2861.01

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 13, 2017	Initial Issue	ALL	Sabrina Wang



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1. TEST CERTIFICATION

Product	OTT Set Top Box
Model	T8023K, ROS 6000, 6000
Brand	TONLY, Prodea, ROS
Tested	June 21~ November 11, 2016
Applicant	TCL Technoly Electronics(Huizhou) CO., Ltd Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, China 516006
Manufacturer	TCL Technoly Electronics(Huizhou) CO., Ltd Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guangdong Province, China 516006

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart E	No non-compliance noted

We hereby certify that:

Compliance Certification Services (Shenzhen) Inc. tested the above equipment. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in **ANSI C63.10: 2013** and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.407 、FCC 14-30.

The TEST RESULTS of this report relate only to the tested sample identified in this report.

Approved by:

Sunday Hu
Supervisor of EMC Dept.
Compliance Certification Services (Shenzhen)
Inc.

Reviewed by:

Ruby Zhang
Supervisor of Report Dept.
Compliance Certification Services (Shenzhen)
Inc.



2. EUT DESCRIPTION

Product	OTT Set Top Box
Model Number	T8023K, ROS 6000, 6000
Brand	TONLY, Prodea, ROS
Model Discrepancy	All models are identical to each other except model names different.
Serial Number	C160621Z01-RP1-4
Received Date	June 21, 2016
Power Supply	DC12V supply by the adapter
Adapter Manufacturer / Model No.	TCL/ KL-AD3060VA Input: 100-240V ~ 50/60Hz 0.7A Output: DC12.0V 1.5A Max. DC Output Cable: Unshielded 1.20m
Frequency Range	UNII Band I: IEEE 802.11a, 802.11n HT20 : 5180MHz ~ 5240MHz; IEEE 802.11n HT40: 5190MHz ~ 5230MHz IEEE 802.11ac 80: 5210MHz UNII Band II IEEE 802.11a, 802.11n HT20 : 5260MHz ~ 5320MHz IEEE 802.11n HT40: 5270MHz ~ 5310MHz IEEE 802.11ac 80: 5290MHz UNII Band III IEEE 802.11a, 802.11n HT20 : 5500MHz ~ 5700MHz IEEE 802.11n HT40: 5510MHz ~ 5670MHz IEEE 802.11ac 80: 5530MHz UNII Band IV IEEE 802.11a, 802.11n HT20 : 5745MHz ~ 5825MHz IEEE 802.11n HT40: 5755MHz ~ 5795MHz IEEE 802.11ac 80: 5775MHz
Transmit Power	UNII Band I: IEEE 802.11a: 14.47dBm (Antenna 0) 14.27dBm (Antenna 1) IEEE 802.11n HT 20 MHz mode: 16.92dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11n HT 40 MHz mode: 15.17dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11ac 80: 14.92dBm (Combine with Antenna 0 and Antenna 1) UNII Band II IEEE 802.11a: 15.49dBm (Antenna 0) 15.49dBm (Antenna 1) IEEE 802.11n HT 20 MHz mode: 17.77dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11n HT 40 MHz mode: 16.74dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11ac 80: 16.46dBm (Combine with Antenna 0 and Antenna 1) UNII Band III IEEE 802.11a: 14.39dBm (Antenna 0) 13.82dBm (Antenna 1) IEEE 802.11n HT 20 MHz mode: 17.13dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11n HT 40 MHz mode: 16.21dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11ac 80: 15.13dBm (Combine with Antenna 0 and Antenna 1) UNII Band IV IEEE 802.11a: 14.29dBm (Antenna 0) 14.14dBm (Antenna 1) IEEE 802.11n HT 20 MHz mode: 16.80dBm (Combine with Antenna 0 and Antenna 1)



	IEEE 802.11n HT 40 MHz mode: 15.84dBm (Combine with Antenna 0 and Antenna 1) IEEE 802.11ac 80: 15.42dBm (Combine with Antenna 0 and Antenna 1)
Modulation Technique	OFDM (QPSK, BPSK, 16-QAM, 64-QAM)
Transmit Data Rate	IEEE 802.11a mode: 48, 36, 24, 18, 12, 9, 6Mbps IEEE802.11n HT20MHz mode(800ns GI): 13,26,39,52,78,104,117,130Mbps IEEE802.11n HT40MHz mode(800ns GI): 27,54,81,108,162,216,243,270Mbps IEEE802.11ac VHT80MHz mode(800ns GI): 58.6,117,175.6,234,351,468,526.6,585,702,780Mbps
Number of Channels	UNII Band I: IEEE 802.11a, 802.11n HT20 : 4 Channels IEEE 802.11n HT40 : 2 Channels IEEE 802.11ac 80: 1 Channel UNII Band II IEEE 802.11a, 802.11n HT20 : 4 Channels IEEE 802.11n HT40: 2 Channels IEEE 802.11ac 80: 1 Channel UNII Band III IEEE 802.11a, 802.11n HT20 : 9 Channels IEEE 802.11n HT 40 MHz mode: 4 Channels IEEE 802.11ac 80: 1 Channels UNII Band IV IEEE 802.11a, 802.11n HT20 : 5 Channels IEEE 802.11n HT 40 MHz mode: 2 Channels IEEE 802.11ac 80: 1 Channel
Antenna Specification	FPC Antenna with 2Bi gain (Max)
Channels Spacing	IEEE 802.11a, 802.11n HT20 : 20MHz IEEE 802.11n HT40: 40MHz IEEE 802.11ac 80: 80MHz
Temperature Range	0°C ~ +35°C
Hardware Version	40-TSH310-MAD4G
Software Version	10.2.28

Note: 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

**Operation Frequency:**

UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII)	
CHANNEL	MHz
36	5180
38	5190
40	5200
42	5210
46	5230
48	5240
52	5260
54	5270
58	5290
60	5300
62	5310
64	5320
100	5500
102	5510
106	5530
110	5550
116	5580
134	5670
140	5700
149	5745
151	5755
155	5775
157	5785
159	5795
165	5825

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
2. This submittal(s) (test report) is intended for FCC ID: ZVAOH00004 filing to comply with Section 15.407 of the FCC Part 15, Subpart E Rules and FCC 14-30.



3. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 Radiated testing was performed at an antenna to EUT distance 3 meters.

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.407 and FCC 14-30.

Radio testing was performed according to KDB DA 02-2138、KDB 789033 D02、KDB 905462 D06;

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed for RF field strength measurement to meet the Commissions requirement, and is operated in a manner intended to generate the maximum emission in a continuous normal application.

3.2 EUT EXERCISE

The EUT is operated in the engineering mode to fix the TX frequency for the purposes of measurement.

According to its specifications, the EUT must comply with the requirements of Section 15.407 under the FCC Rules Part 15 Subpart E.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is positioned at 0.8 m above the ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10, the conducted emission from the EUT is measured in the frequency range between 0.15 MHz and 30MHz, using the CISPR Quasi-Peak detector mode.

Radiated Emissions

The EUT is placed on the turntable, which is 0.8 m (below 1GHz) /1.5m (Above 1GHz) above the ground plane. The turntable is then rotated for 360 degrees to determine the proper orientation for the maximum emission level. The EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission level. And, each emission is to be maximized by changing the horizontal and vertical polarization of the receiving antenna. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.10.



3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.



3.5 DESCRIPTION OF TEST MODES

The EUT is a 2x2 configuration spatial MIMO (2TX & 2RX) without beam forming function. Use command (CMD.EXE) to control the EUT for staying in continuous transmitting mode was programmed.

Test Item	Test mode	Worse mode
Conducted Emission	Mode 1: USB 2.0+HDMI Output	<input type="checkbox"/>
	Mode 2: USB 3.0+HDMI Output	<input checked="" type="checkbox"/>
	Mode 3: TF Card+HDMI Output	<input type="checkbox"/>
Radiated Emission	Mode 4: Continuously Transmitting	<input checked="" type="checkbox"/>

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

UNII Band I:

IEEE 802.11a for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5180 ~ 5240MHz:

Channel Low (5180MHz), Channel Mid (5200MHz) and Channel High (5240MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5190 ~ 5230MHz:

Channel Low (5190MHz) and Channel High (5230MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5210MHz:

Channel Low (5210MHz) with 27Mbps data rate were chosen for full testing.



UNII Band II:

IEEE 802.11a for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5300MHz) and Channel High (5320MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5260 ~ 5320MHz:

Channel Low (5260MHz), Channel Mid (5300MHz) and Channel High (5320MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5270~ 5310MHz:

Channel Low (5270MHz) and Channel High (5310MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5290MHz:

Channel Low (5290MHz) with 27Mbps data rate were chosen for full testing.

UNII Band III:

IEEE 802.11a for 5500 ~ 5700MHz:

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5500 ~ 5700MHz:

Channel Low (5500MHz), Channel Mid (5580MHz) and Channel High (5700MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5510~ 5670MHz:

Channel Low (5510MHz) and Channel High (5670MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5530MHz:

Channel Low (5530MHz) with 27Mbps data rate were chosen for full testing.

UNII Band IV:

IEEE 802.11a for 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 6Mbps data rate were chosen for full testing.

IEEE 802.11n HT 20 MHz for 5745 ~ 5825MHz:

Channel Low (5745MHz), Channel Mid (5785MHz) and Channel High (5825MHz) with 13Mbps data rate were chosen for full testing.

IEEE 802.11n HT 40 MHz Channel for 5755~ 5795MHz:

Channel Low (5755MHz) and Channel High (5795MHz) with 27Mbps data rate were chosen for full testing.

IEEE 802.11ac 80 Channel for 5775MHz:

Channel Low (5775MHz) with 27Mbps data rate were chosen for full testing.



4. SETUP OF EQUIPMENT UNDER TEST

4.1 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

No.	Equipment	Model No.	Serial No.	FCC ID	Brand	Data Cable	Power Cord
1	HDD 2.0	WDBACY3201ABK-PESN	WX61ABOU 8031	DoC	WD	Shielded 0.50m	N/A
2	HDD 3.0	WDBACY3202ABK-PESN	WXF1A9027 339	DoC	WD	Shielded 0.50m	N/A
3	Monitor	EW2445-B	ET61G0581 0CL0	DoC	BENQ	Shielded 1.10m	Shielded 1.50m (AC Cable) Unshielded 1.80m (DC Cable)
4	TF Card	N/A	N/A	DoC	Samsung	Shielded 2.20m	N/A
5	Earphone	ST909	N/A	DoC	Senic	N/A	N/A
6	Notebook	Probook 5310M	N/A	DoC	HP	Shielded 2.30m	Shielded 1.70m (AC Cable) Unshielded 1.80m (DC Cable)

Note:

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2 CONFIGURATION OF SYSTEM UNDER TEST

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at **No.10-1 Mingkeda Logistics park, No.18, Huanguan South Rd., Guan Lan Town, Baoan District, Shenzhen, China**

The sites are constructed in conformance with the requirements of ANSI C63.10, ANSI C63.7 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

USA	A2LA
China	CNAS

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

USA	FCC
Japan	VCCI(C-3478, R-3135, T-652, G-10624)
Canada	INDUSTRY CANADA

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccssz.com>

**5.4 MEASUREMENT UNCERTAINTY**

Parameter	Uncertainty
RF frequency	+/-1 * 10 ⁻⁵
RF power conducted	+/- 1,5 dB
RF power radiated	+/- 6 dB
Spurious emissions, conducted	+/- 3 dB
Spurious emissions, radiated	+/- 6 dB
Humidity	+/- 5 %
Temperature	+/- 1°C
Time	+/-10 %

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



6. FCC PART 15 REQUIREMENTS

6.1 26dB EMISSION BANDWIDTH

6.1.1 LIMIT

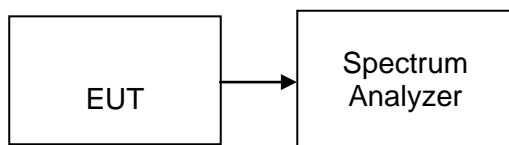
According to §15.403(c), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

6.1.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Due Calibration
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

Remark: Each piece of equipment is scheduled for calibration once a year.

6.1.3 TEST CONFIGURATION



6.1.4 TEST PROCEDURE

1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low-loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW > 1%EBW, VBW > RBW, Span >26dB bandwidth, Detector = Peak, and Sweep = auto.
4. Mark the peak frequency and -26dB (upper and lower) frequency.
5. Repeat until all the rest channels were investigated.

**6.1.5 TEST RESULTS***No non-compliance noted***Test Data****Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5180	21.29	21.08
Mid	5200	21.27	21.01
High	5240	20.85	20.78

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5260	20.93	20.99
Mid	5300	20.67	21.05
High	5320	20.98	21.17

Test mode: IEEE 802.11a mode / 5500 ~ 5580MHz; 5660 ~ 5700MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5500	20.97	21.06
Mid	5580	21.05	20.97
High	5700	20.87	20.83

**Test mode: IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5180	21.84	21.53
Mid	5200	21.22	21.69
High	5240	21.39	21.64

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5260	21.59	21.74
Mid	5300	21.74	21.79
High	5320	21.34	21.55

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5580MHz; 5660 ~ 5700MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5500	21.35	21.86
Mid	5580	21.45	21.39
High	5700	21.62	21.43

**Test mode: IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz**

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5190	43.40	43.66
High	5230	44.13	43.90

Test mode: IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5270	43.42	43.41
High	5310	44.19	43.66

Test mode: IEEE 802.11n HT 40 MHz mode / 5510~5550MHz; 5670MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
Low	5510	42.90	43.23
Mid	5550	44.03	43.65
High	5670	43.57	43.65

**Test mode: IEEE 802.11ac 80 mode / 5210MHz**

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
	5210	82.08	82.13

Test mode: IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
	5290	89.58	82.26

Test mode: IEEE 802.11ac 80 mode / 5530MHz

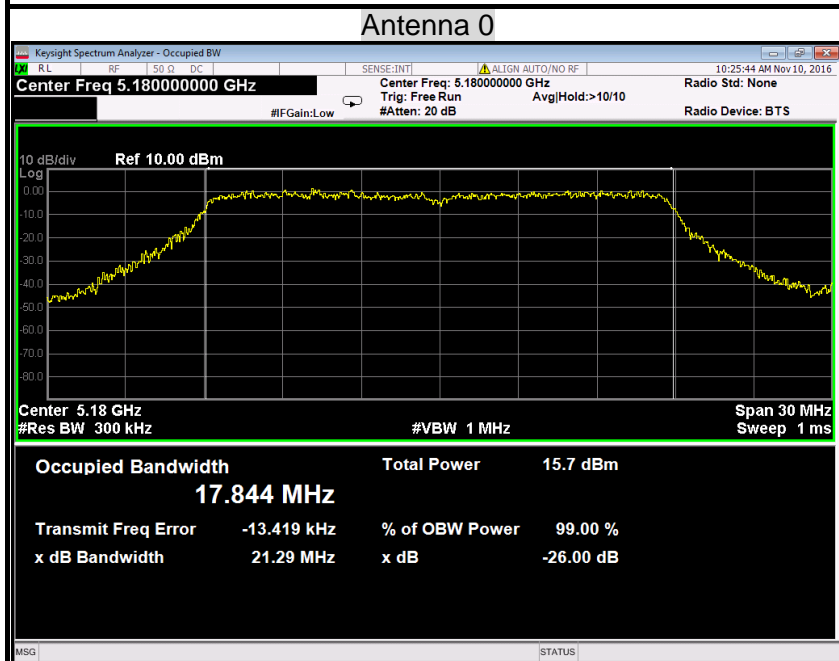
Channel	Frequency (MHz)	26dB Bandwidth(B) (MHz)	
		Antenna 0	Antenna 1
	5530	80.85	81.24



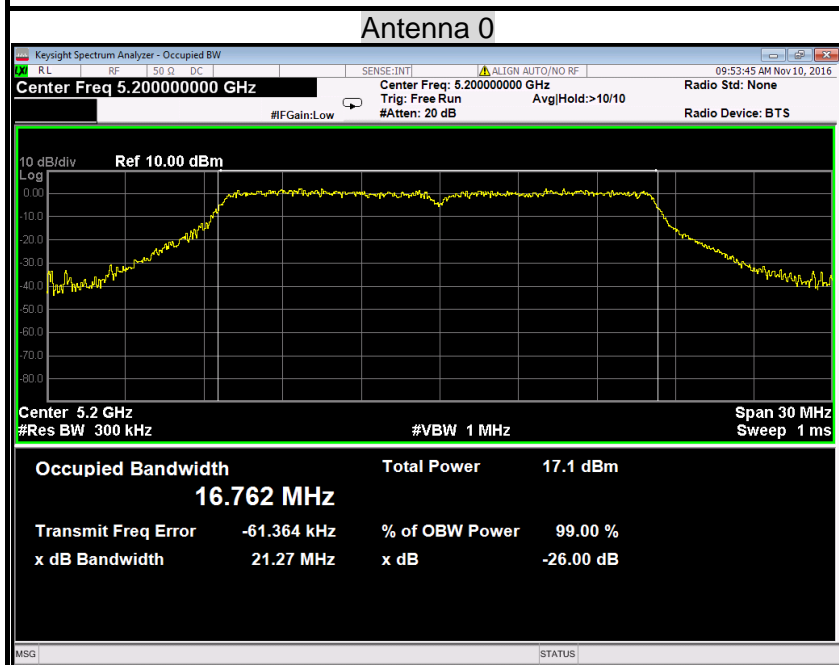
Test Plot

IEEE 802.11a mode / 5180 ~ 5240MHz

26dB Bandwidth (CH Low)



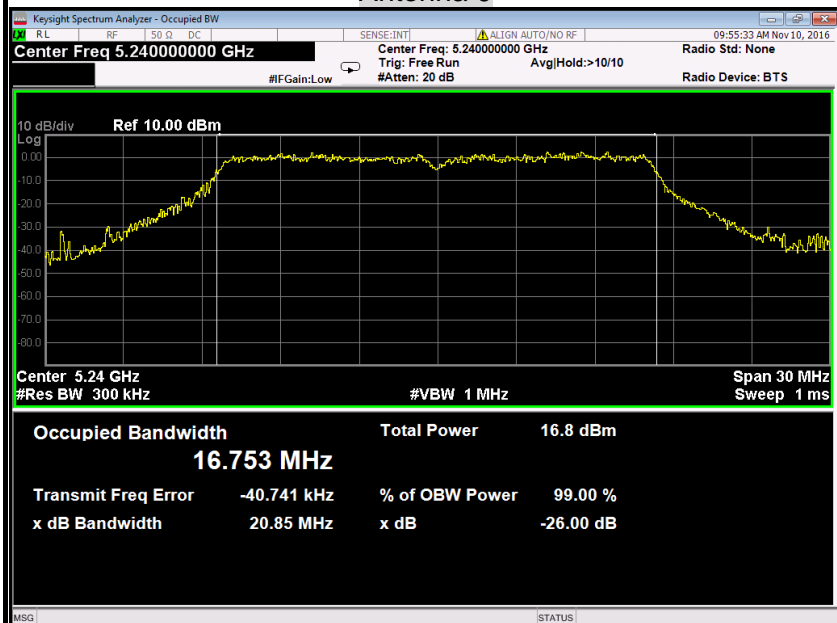
26dB Bandwidth (CH Mid)





26dB Bandwidth (CH High)

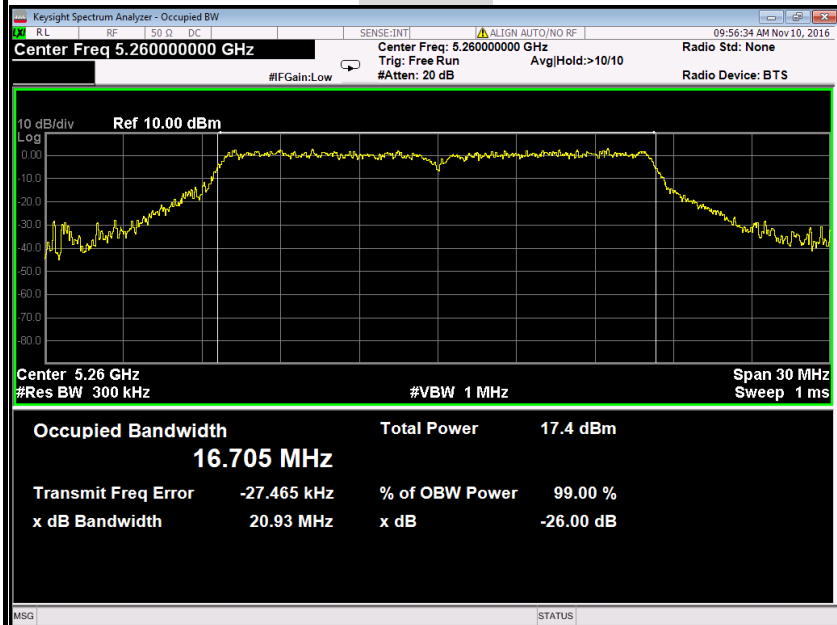
Antenna 0



IEEE 802.11a mode / 5260~ 5320MHz

26dB Bandwidth (CH Low)

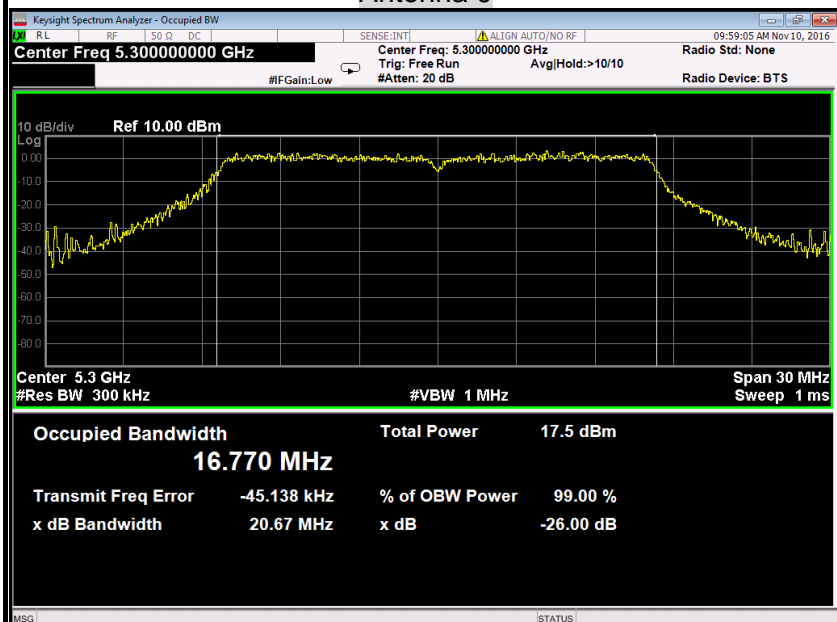
Antenna 0





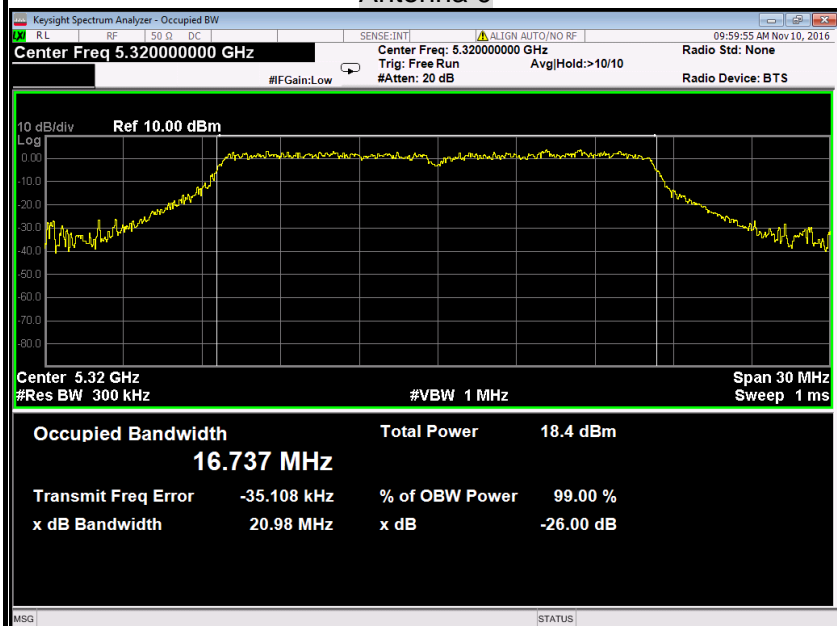
26dB Bandwidth (CH Mid)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

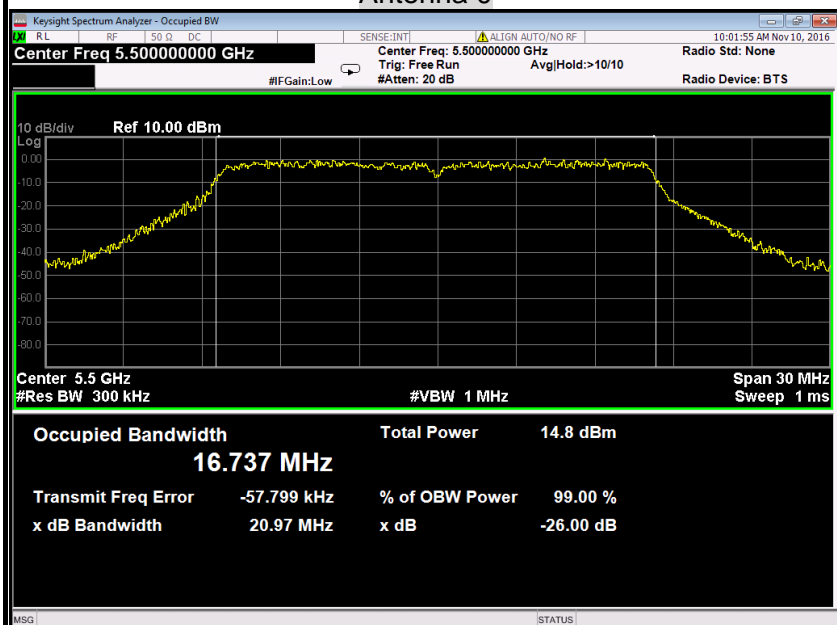




IEEE 802.11a mode / 5500 ~ 5700MHz

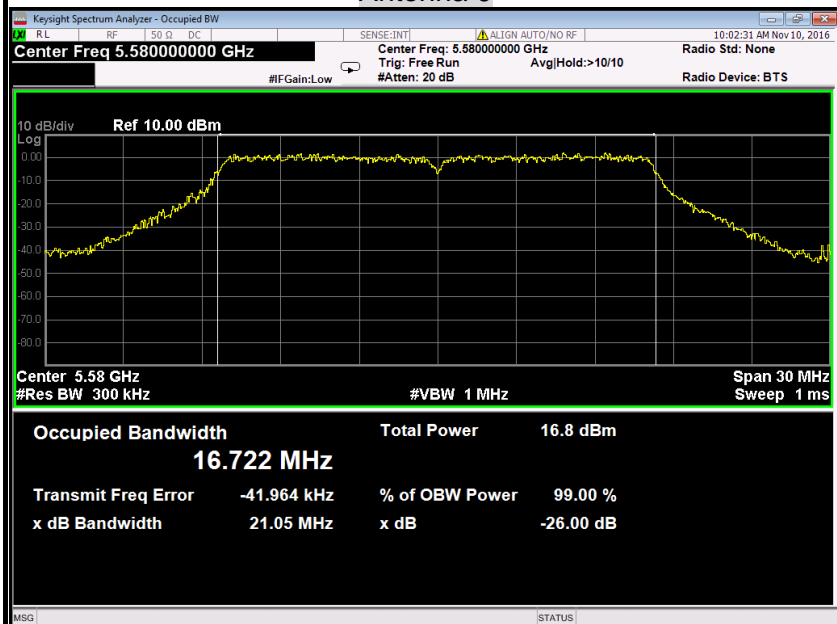
26dB Bandwidth (CH Low)

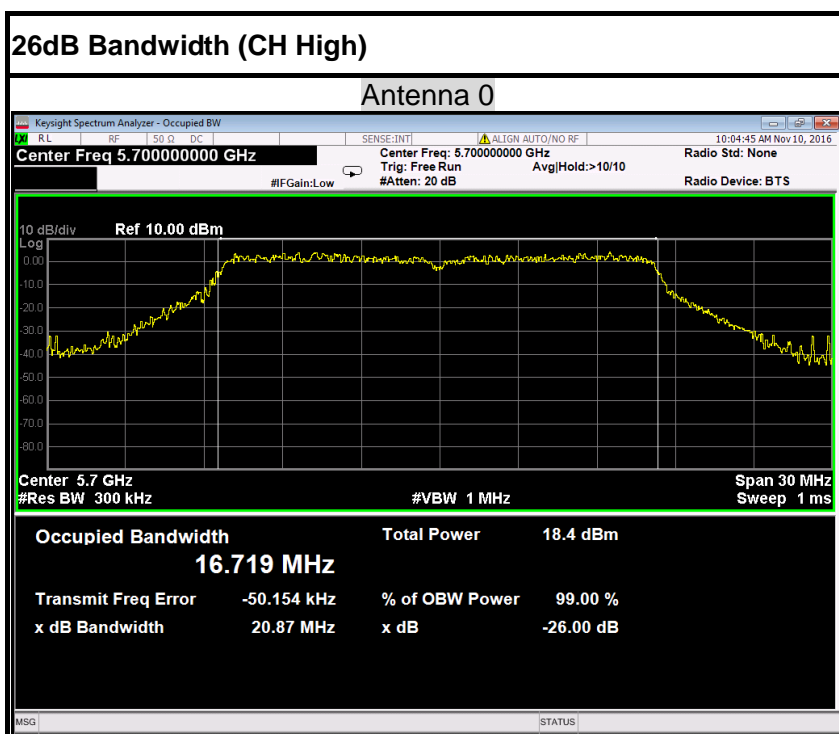
Antenna 0



26dB Bandwidth (CH Mid)

Antenna 0



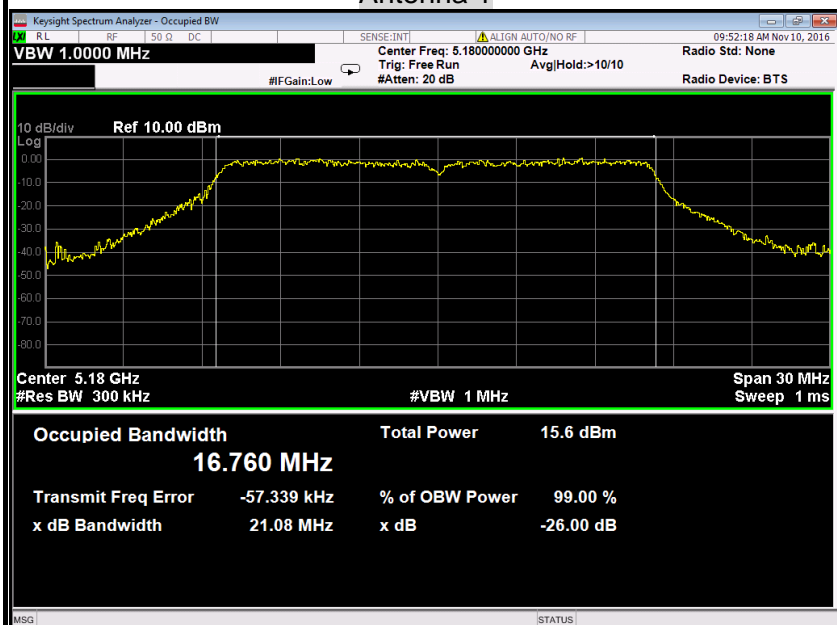




IEEE 802.11a mode / 5180 ~ 5240MHz

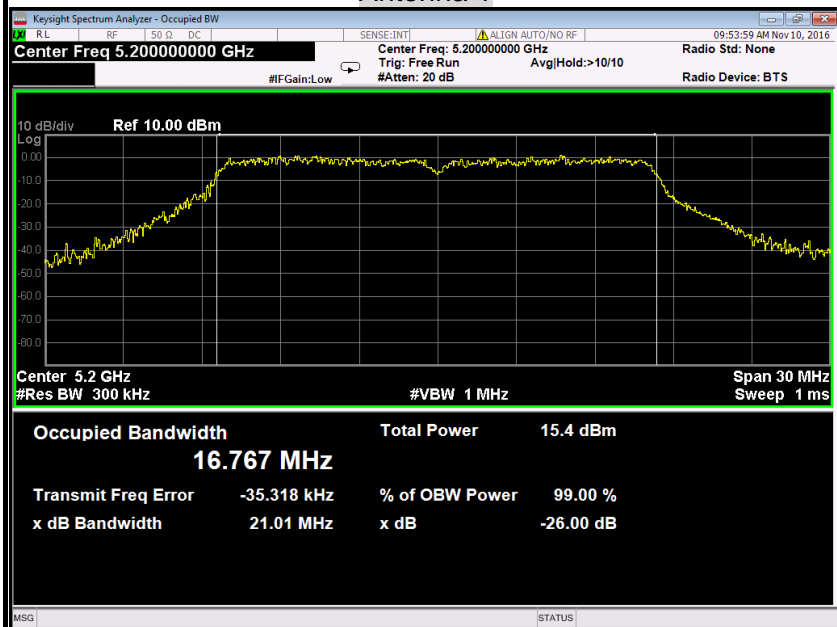
26dB Bandwidth (CH Low)

Antenna 1



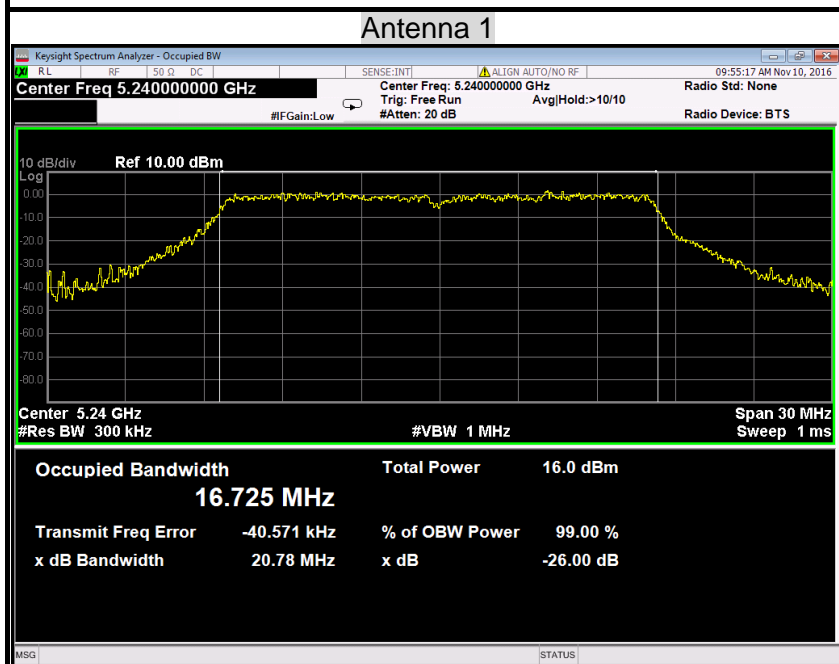
26dB Bandwidth (CH Mid)

Antenna 1



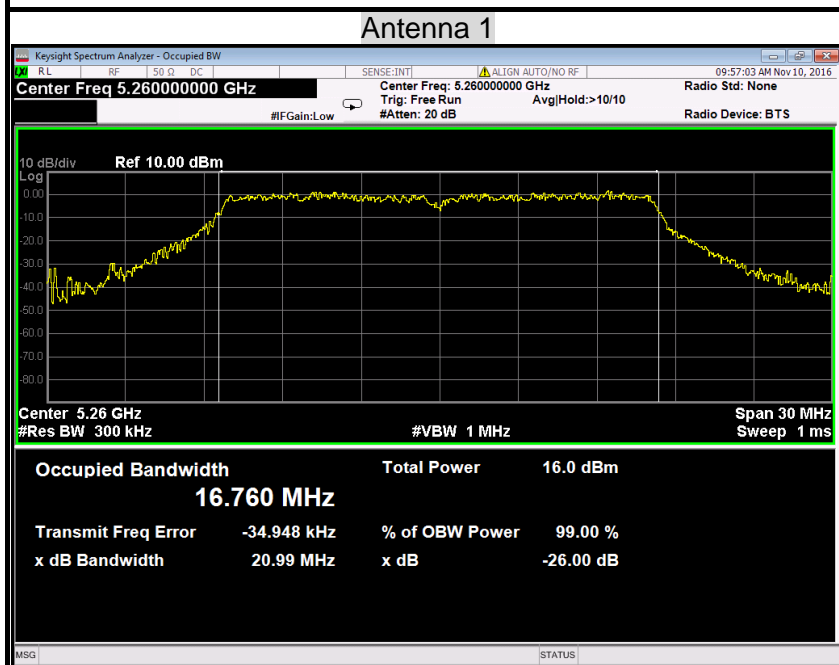


26dB Bandwidth (CH High)



IEEE 802.11a mode / 5260~ 5320MHz

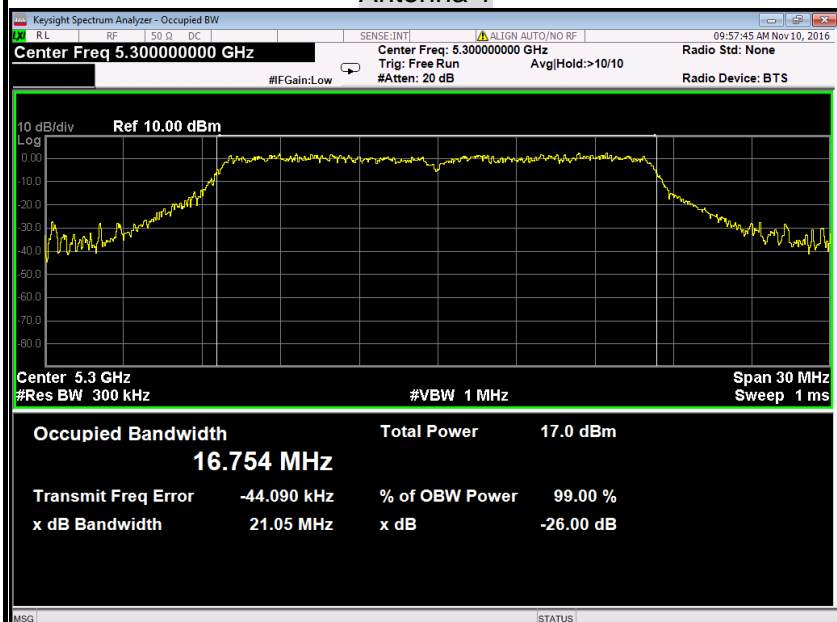
26dB Bandwidth (CH Low)





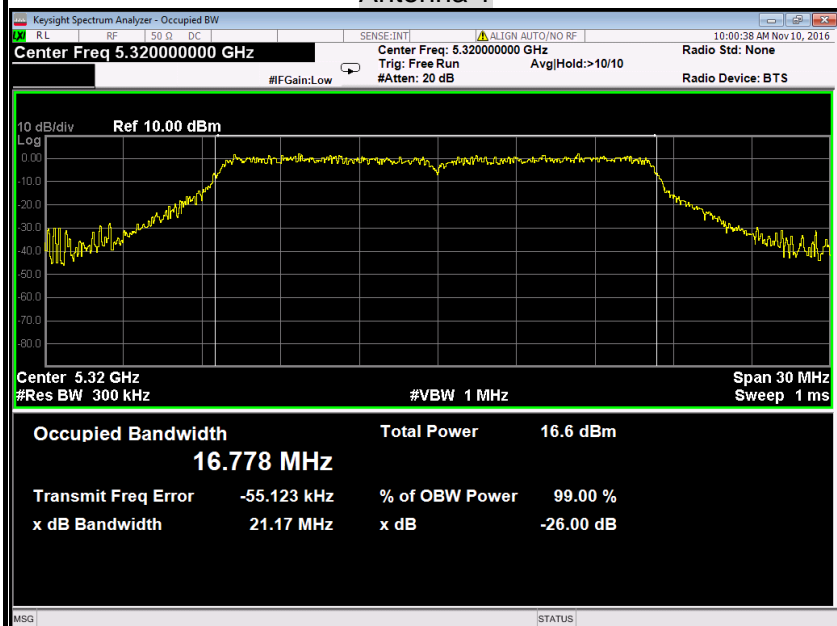
26dB Bandwidth (CH Mid)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

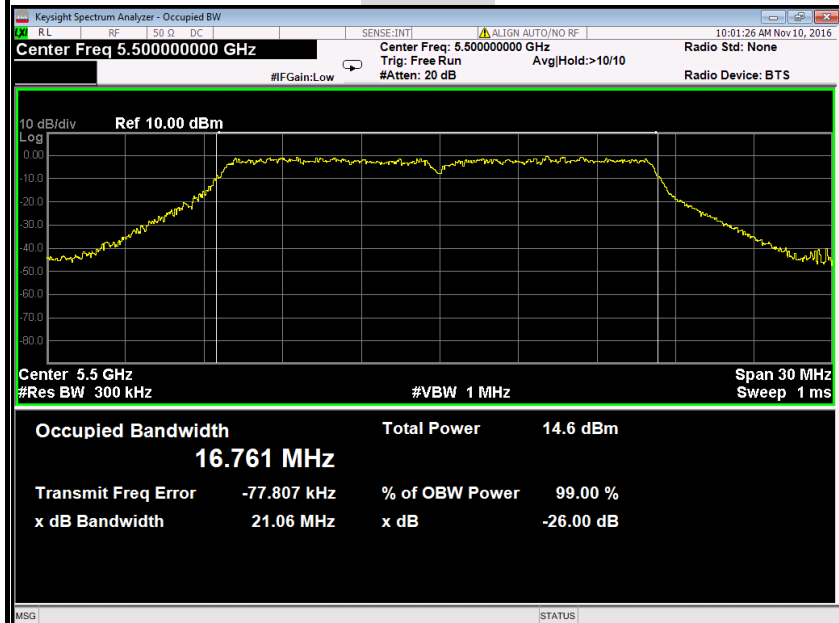




IEEE 802.11a mode / 5500 ~ 5700MHz

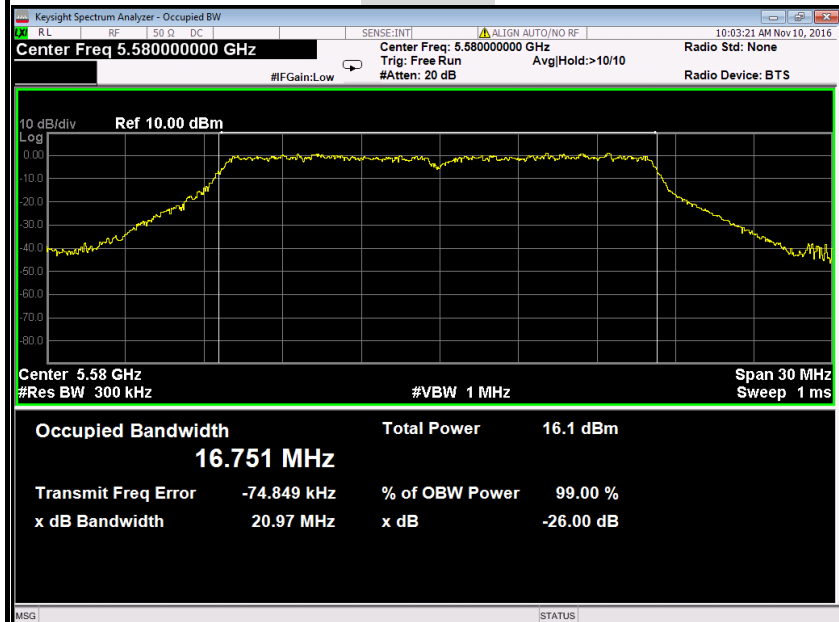
26dB Bandwidth (CH Low)

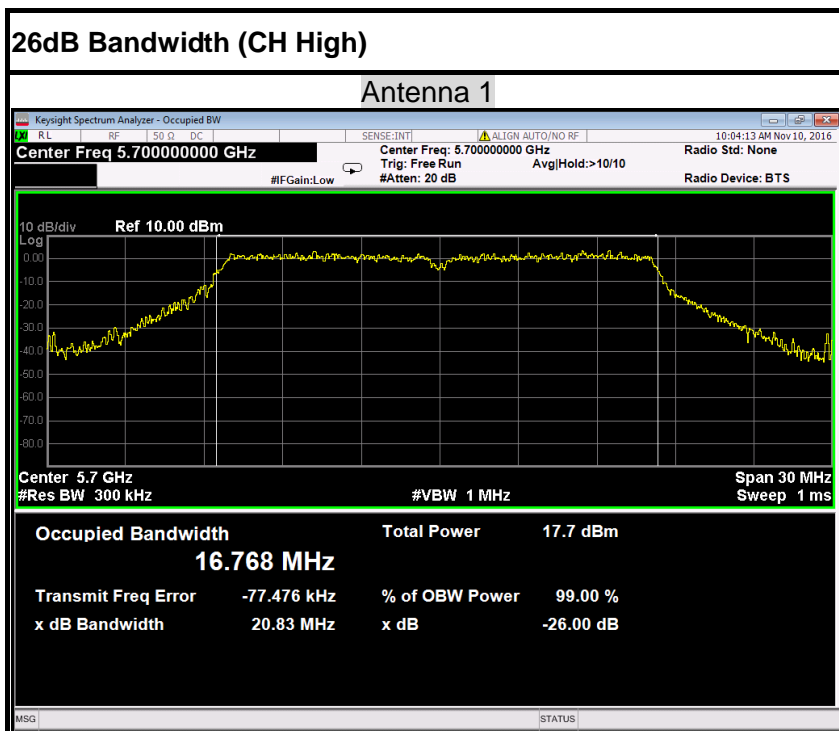
Antenna 1



26dB Bandwidth (CH Mid)

Antenna 1



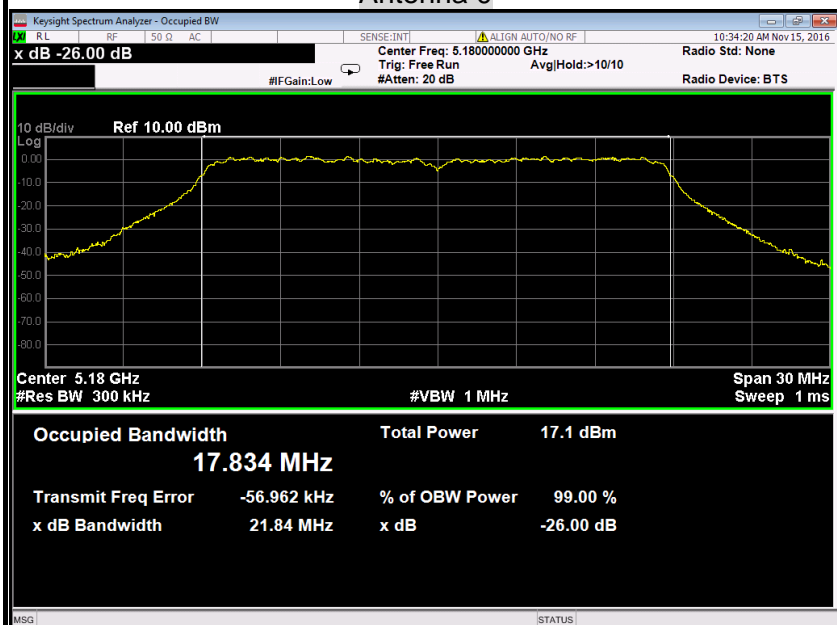




IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

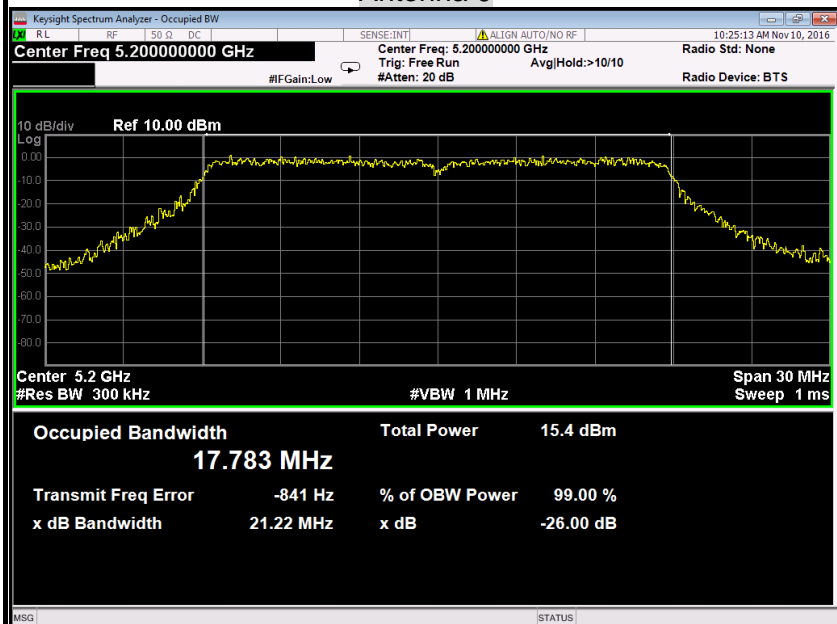
26dB Bandwidth (CH Low)

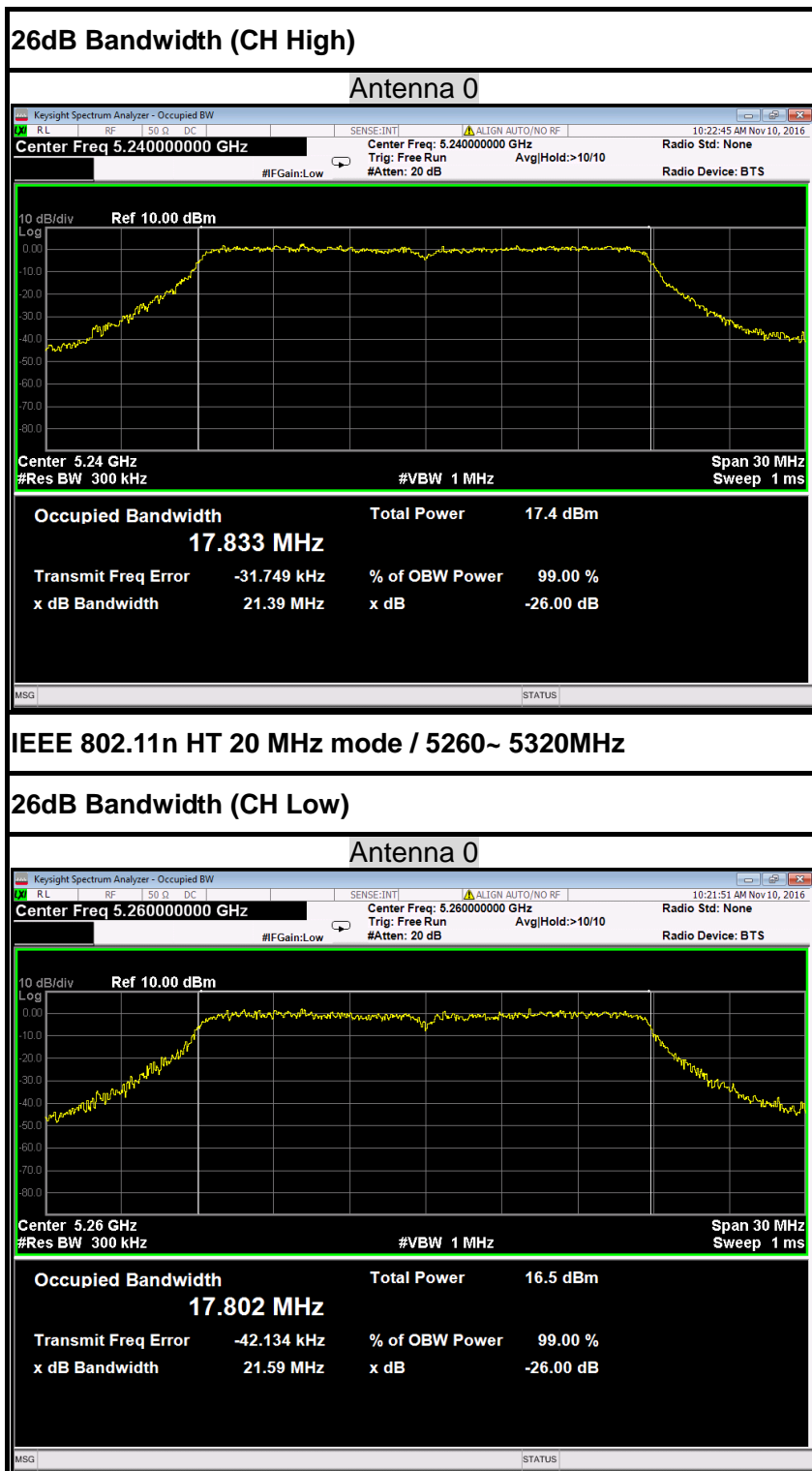
Antenna 0



26dB Bandwidth (CH Mid)

Antenna 0

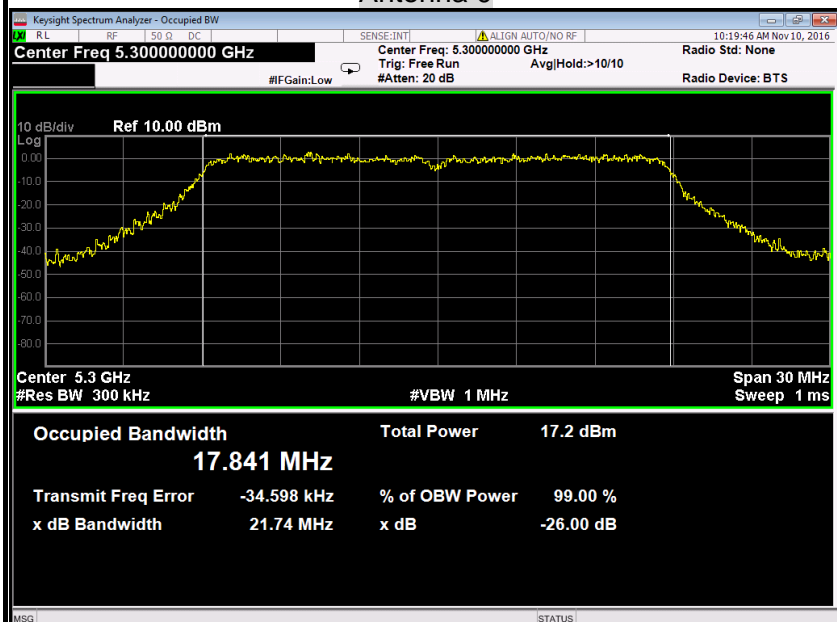






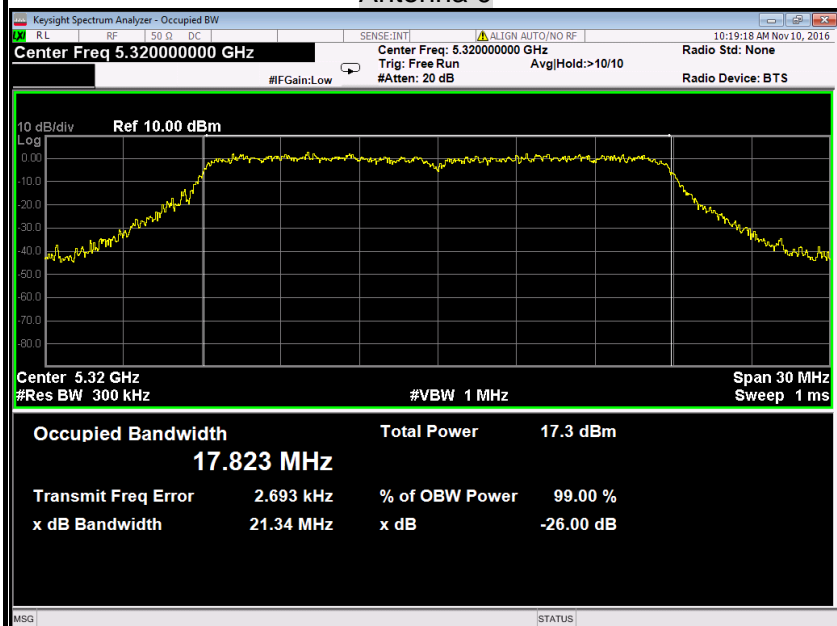
26dB Bandwidth (CH Mid)

Antenna 0



26dB Bandwidth (CH High)

Antenna 0

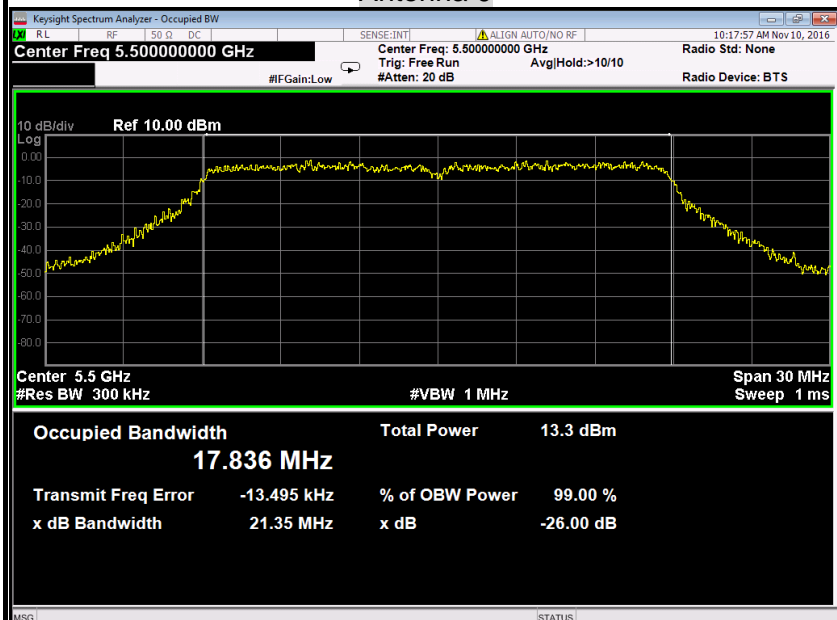




IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

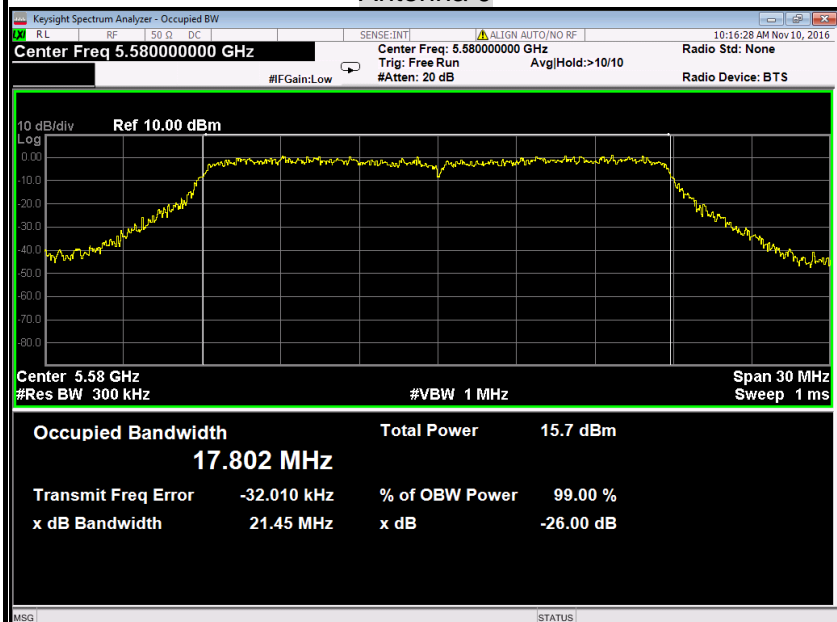
26dB Bandwidth (CH Low)

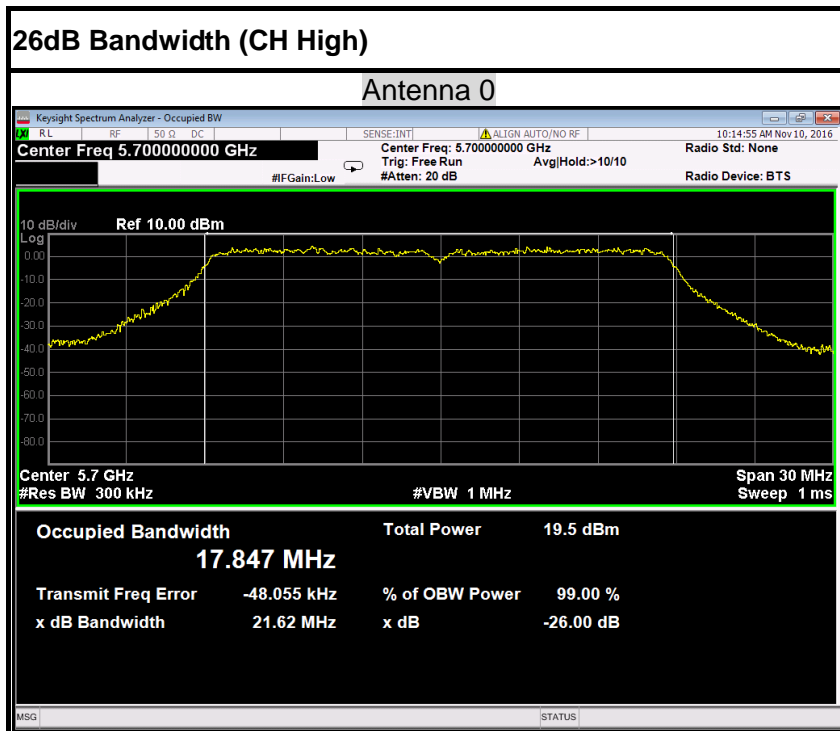
Antenna 0



26dB Bandwidth (CH Mid)

Antenna 0



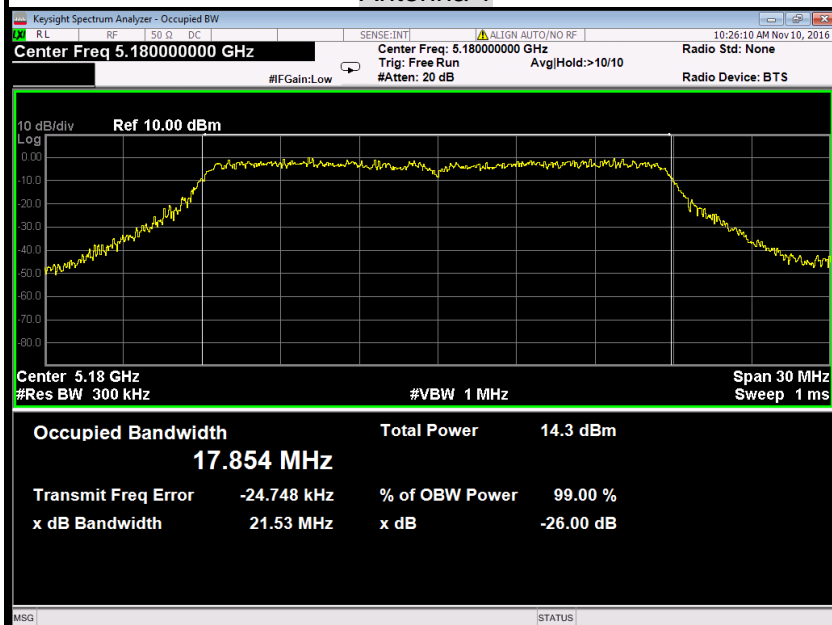




IEEE 802.11n HT 20 MHz mode / 5180 ~ 5240MHz

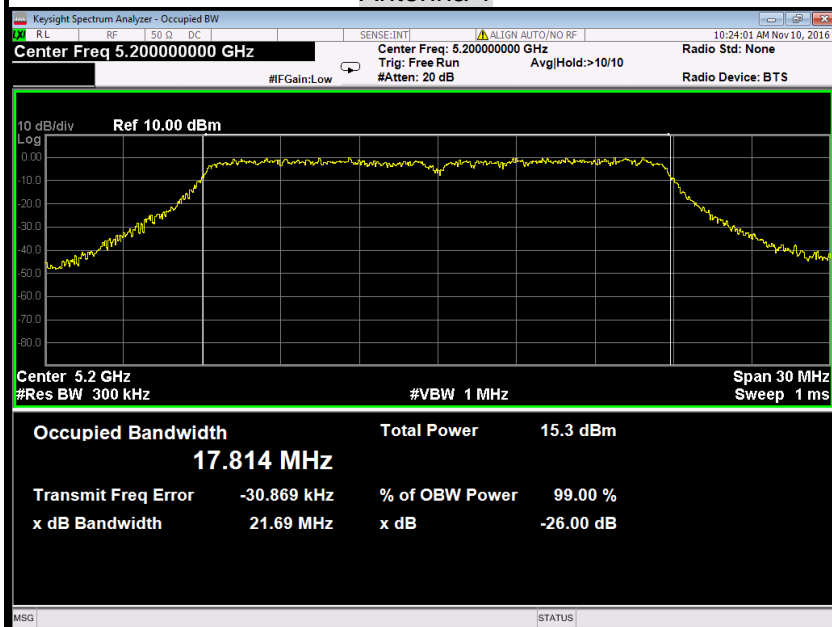
26dB Bandwidth (CH Low)

Antenna 1



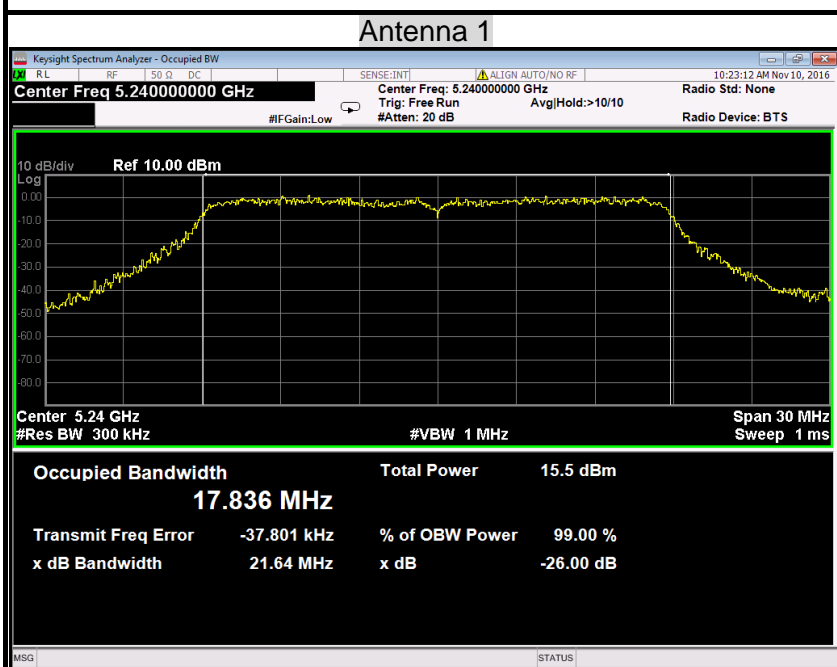
26dB Bandwidth (CH Mid)

Antenna 1



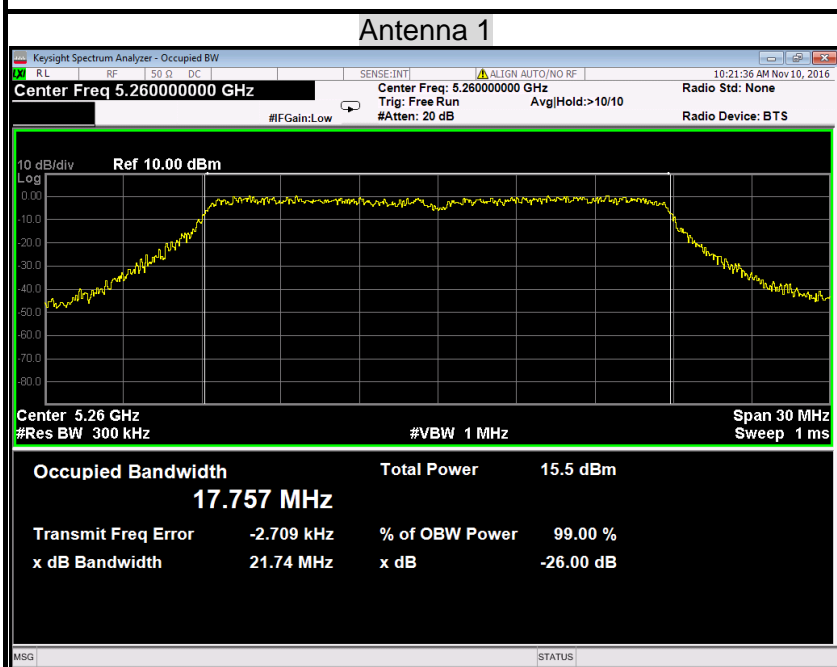


26dB Bandwidth (CH High)



IEEE 802.11n HT 20 MHz mode / 5260~ 5320MHz

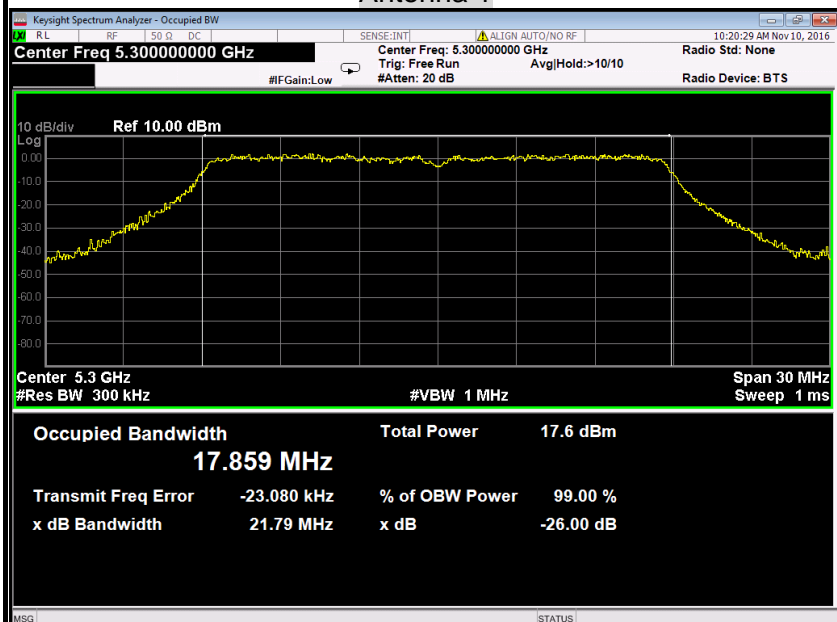
26dB Bandwidth (CH Low)





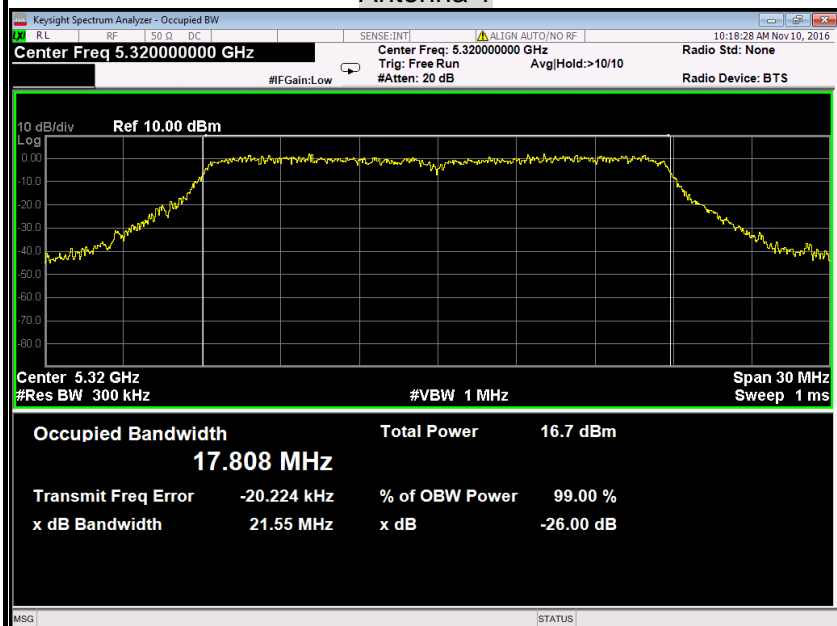
26dB Bandwidth (CH Mid)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

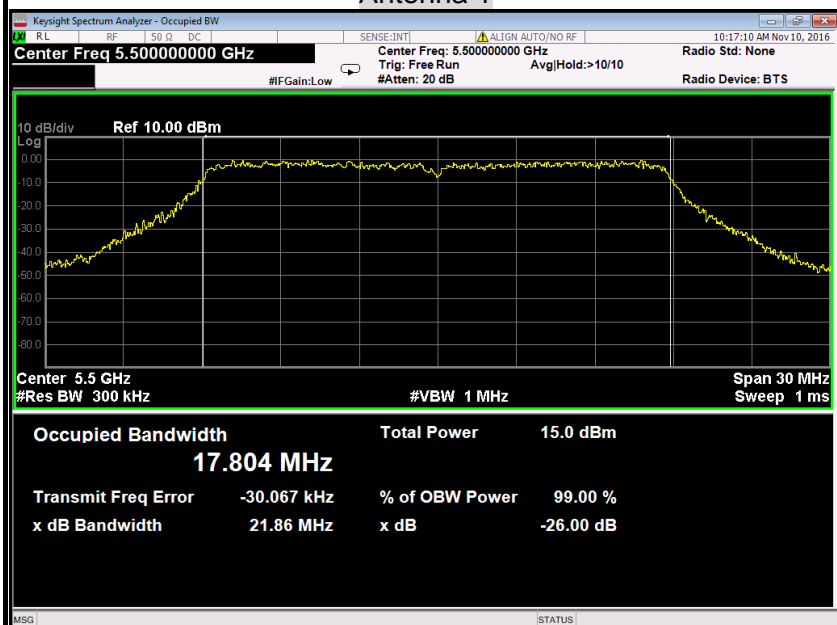




IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

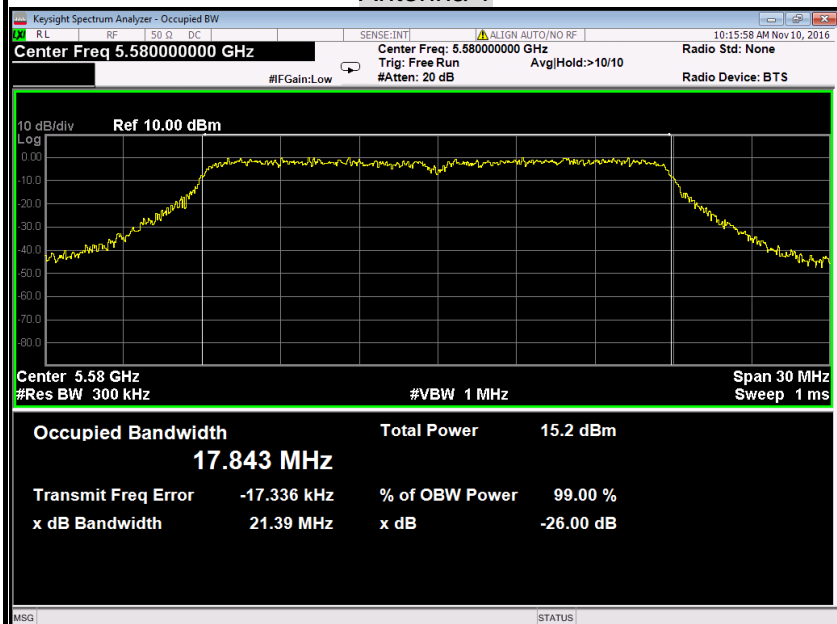
26dB Bandwidth (CH Low)

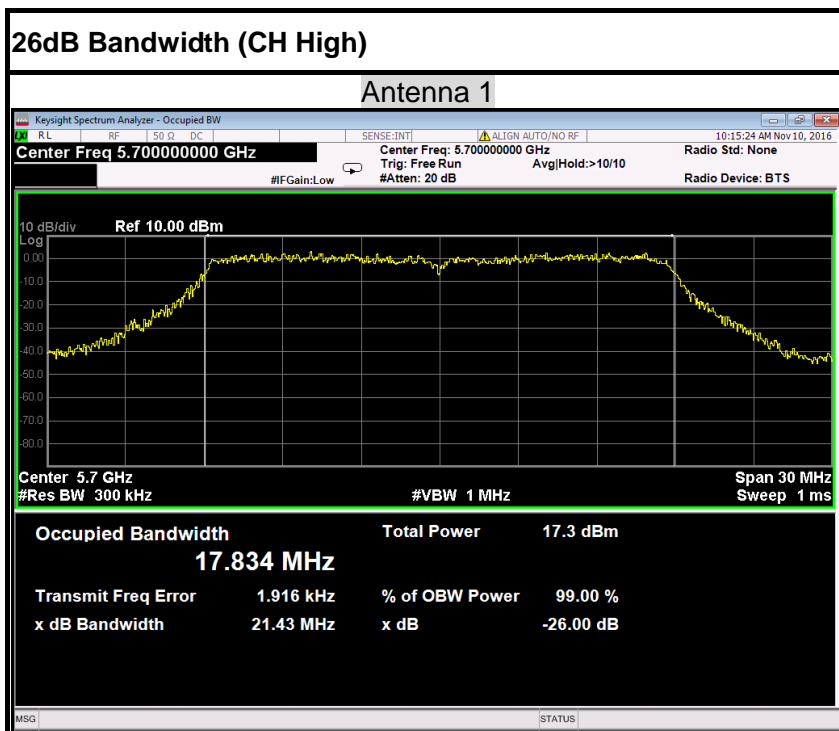
Antenna 1



26dB Bandwidth (CH Mid)

Antenna 1



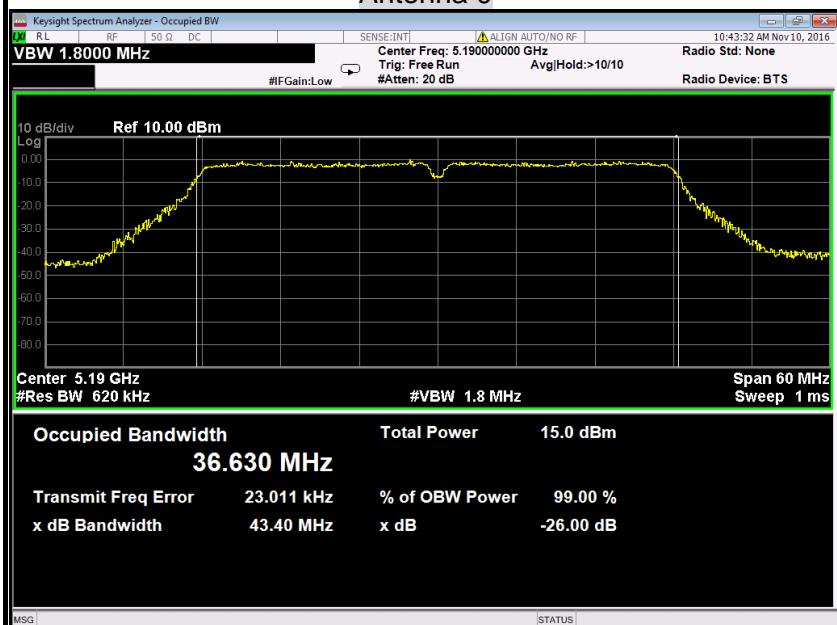




IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

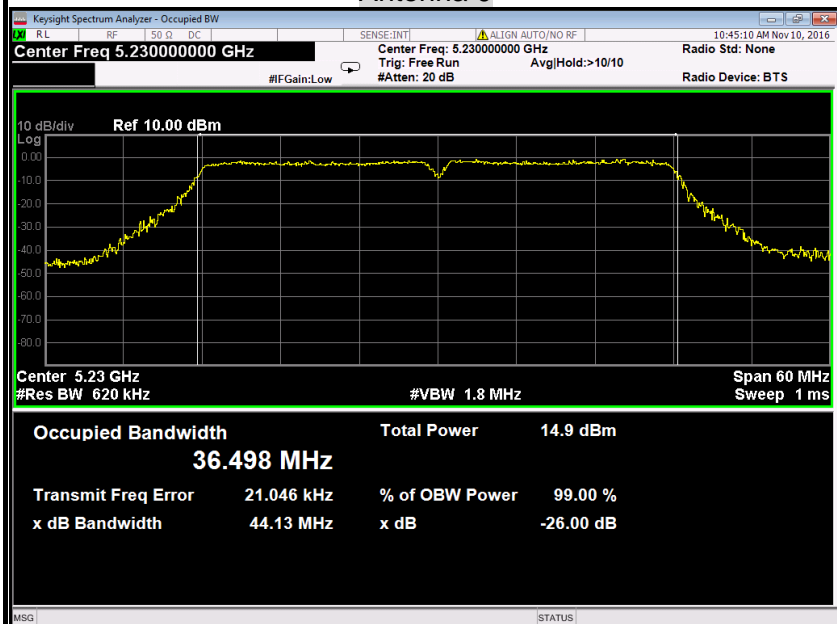
26dB Bandwidth (CH Low)

Antenna 0



26dB Bandwidth (CH High)

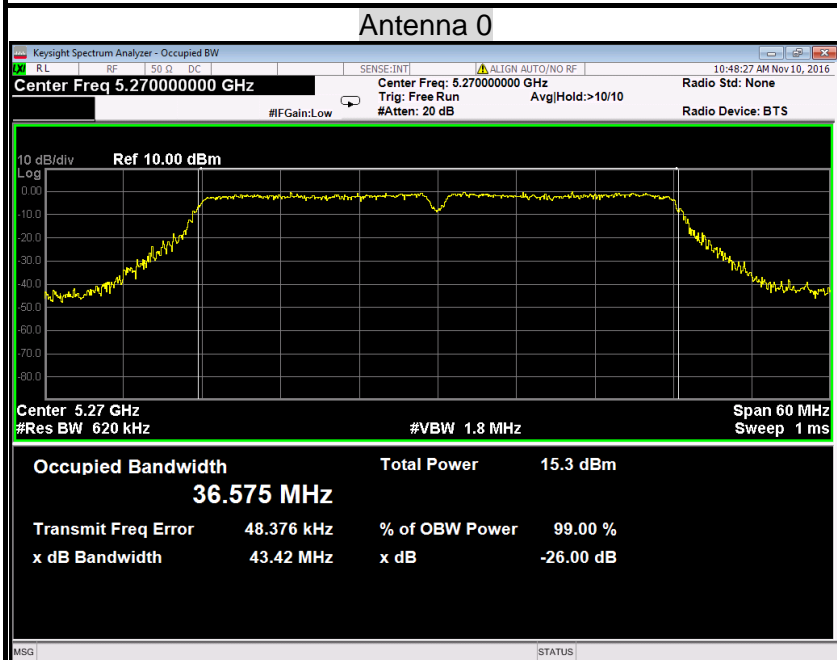
Antenna 0



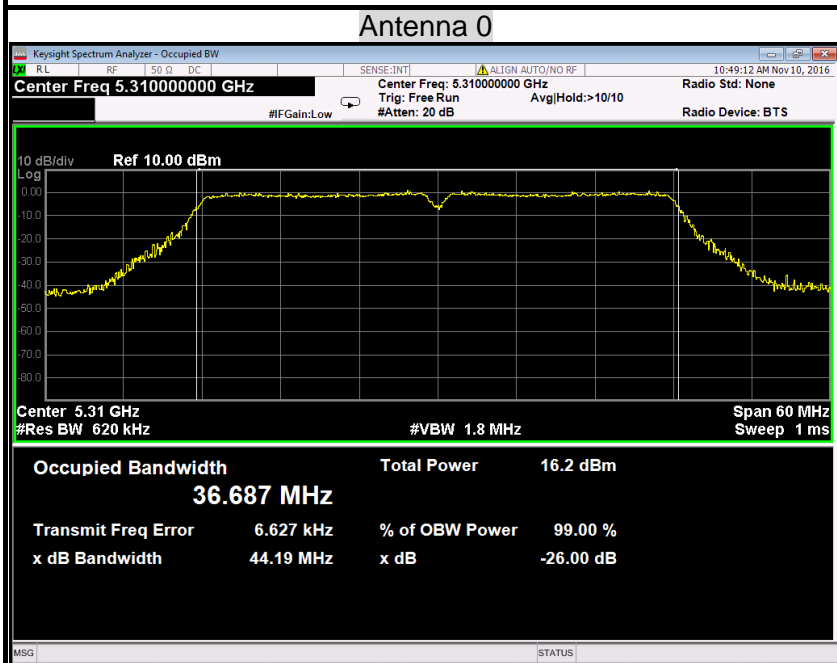


IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

26dB Bandwidth (CH Low)



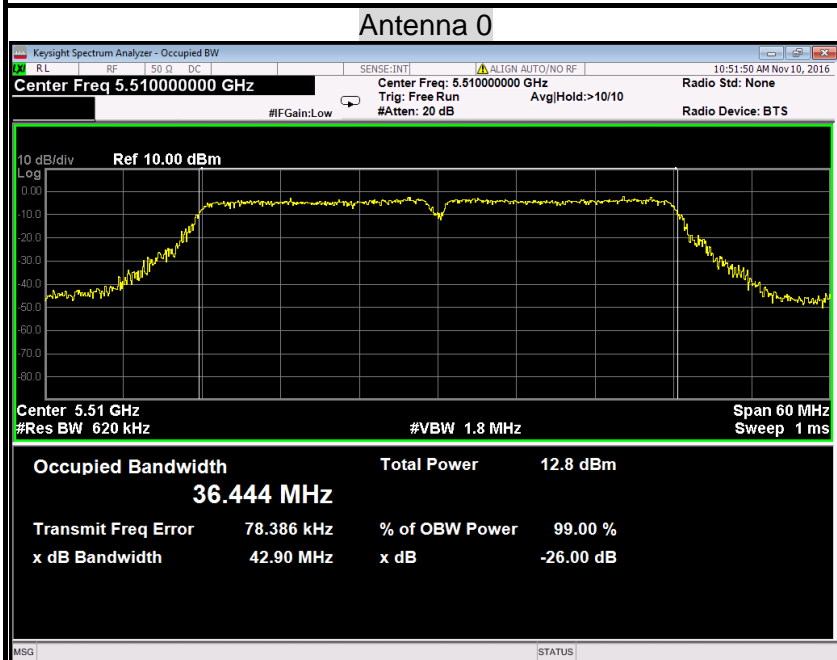
26dB Bandwidth (CH High)



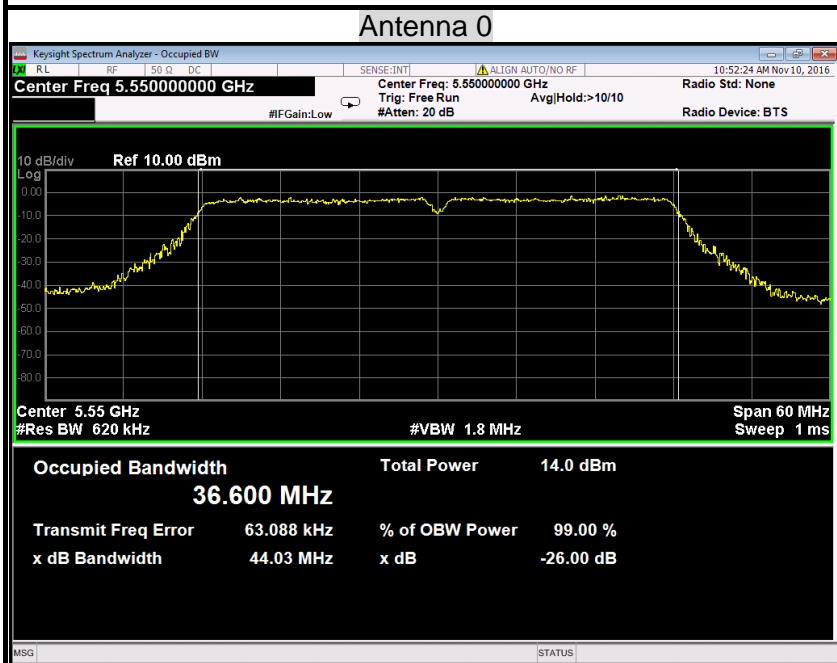


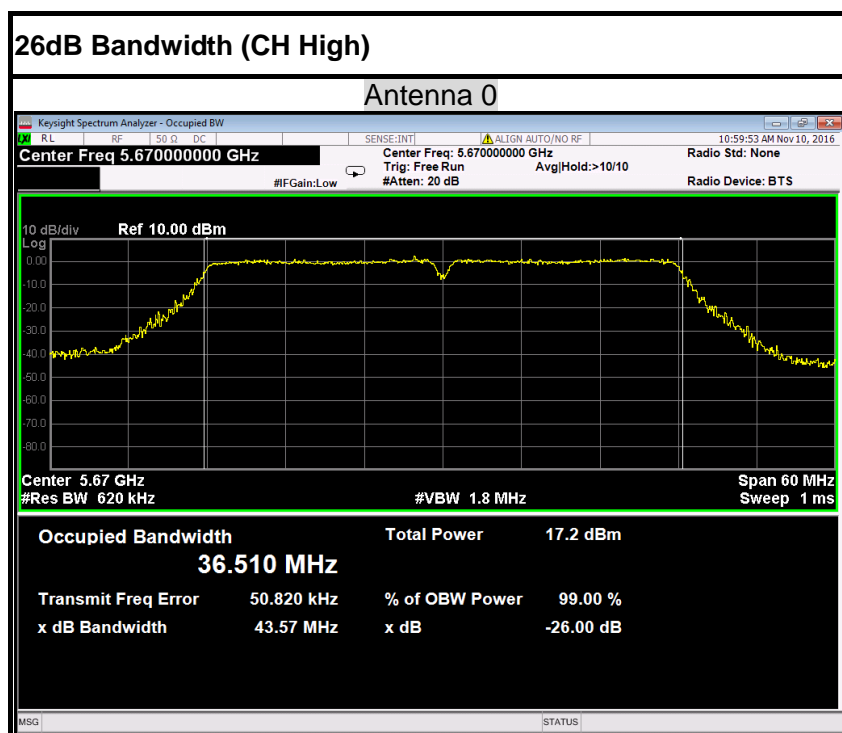
IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

26dB Bandwidth (CH Low)



26dB Bandwidth (CH Mid)



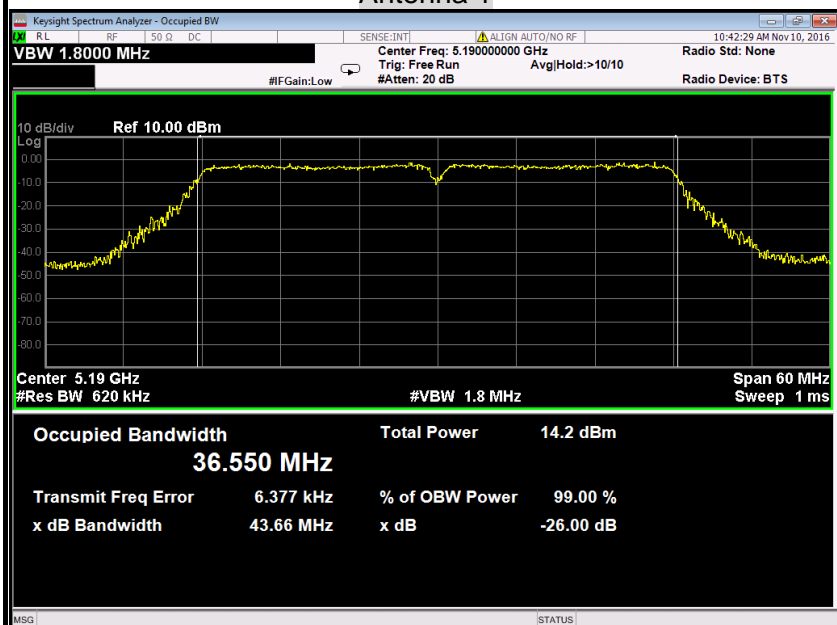




IEEE 802.11n HT 40 MHz mode / 5190 ~ 5230MHz

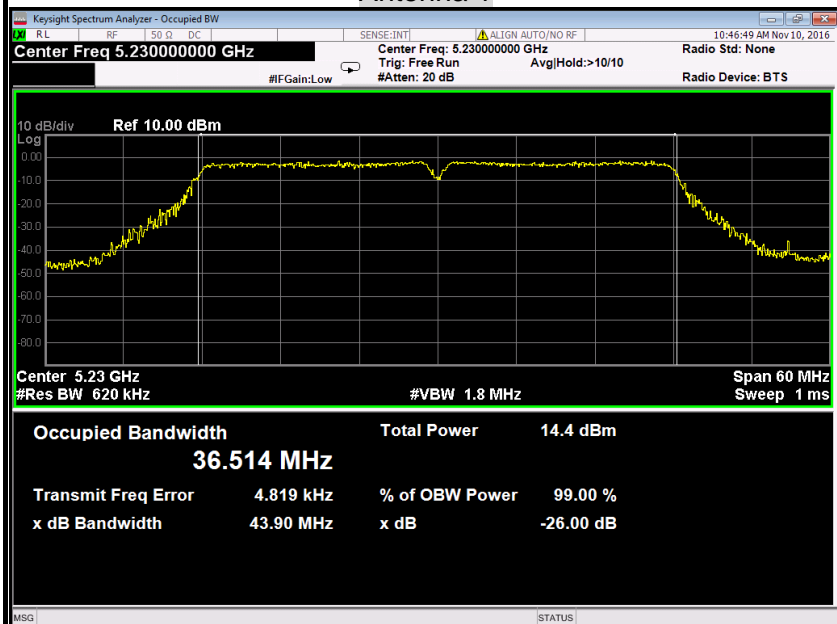
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH High)

Antenna 1

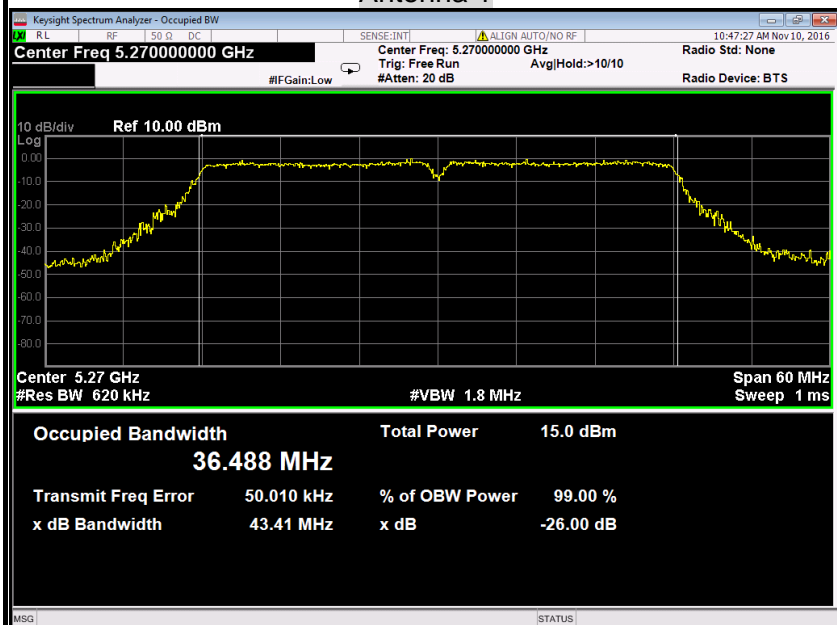




IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz

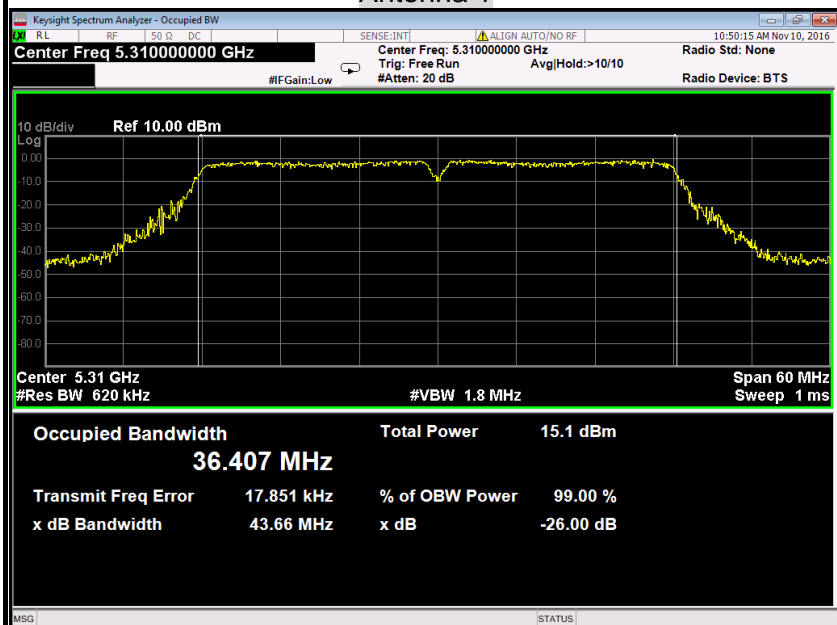
26dB Bandwidth (CH Low)

Antenna 1



26dB Bandwidth (CH High)

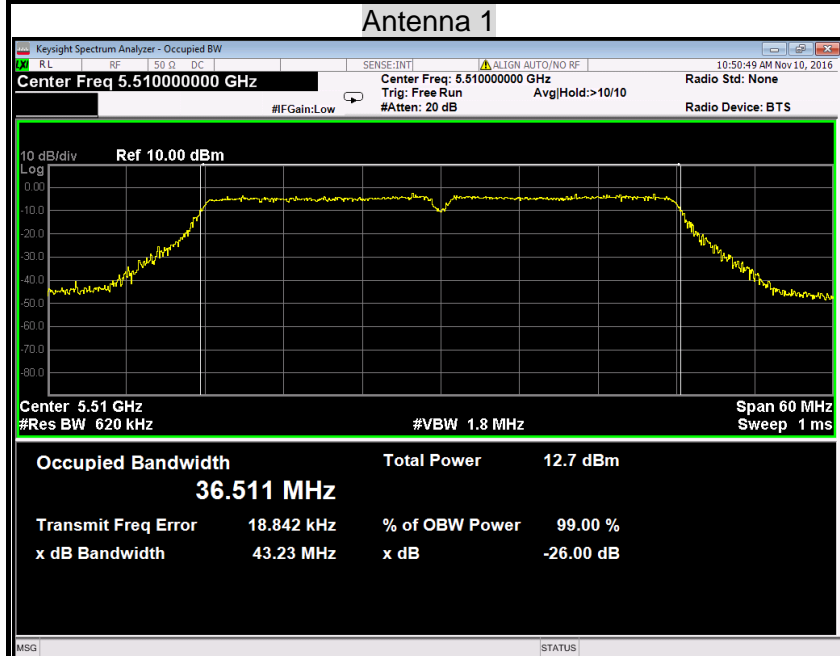
Antenna 1



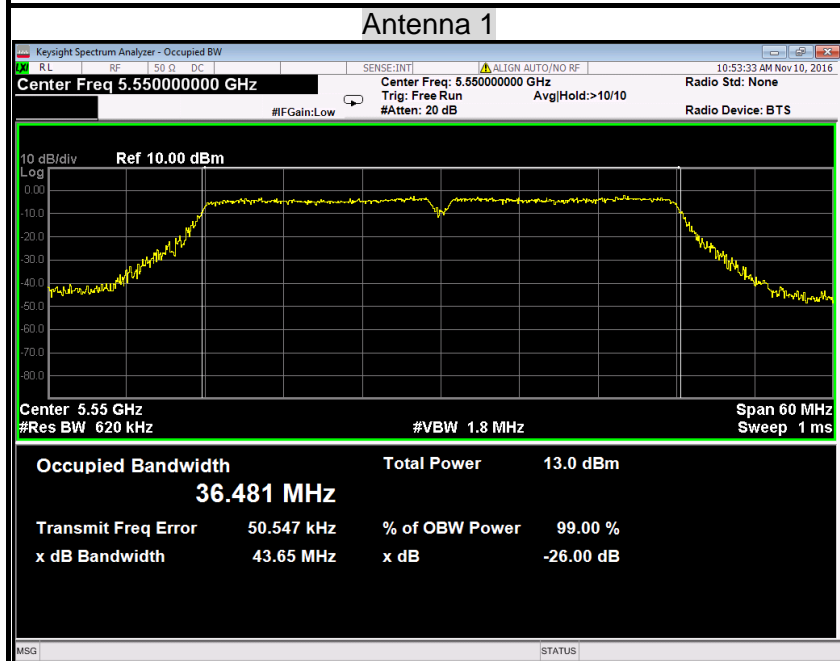


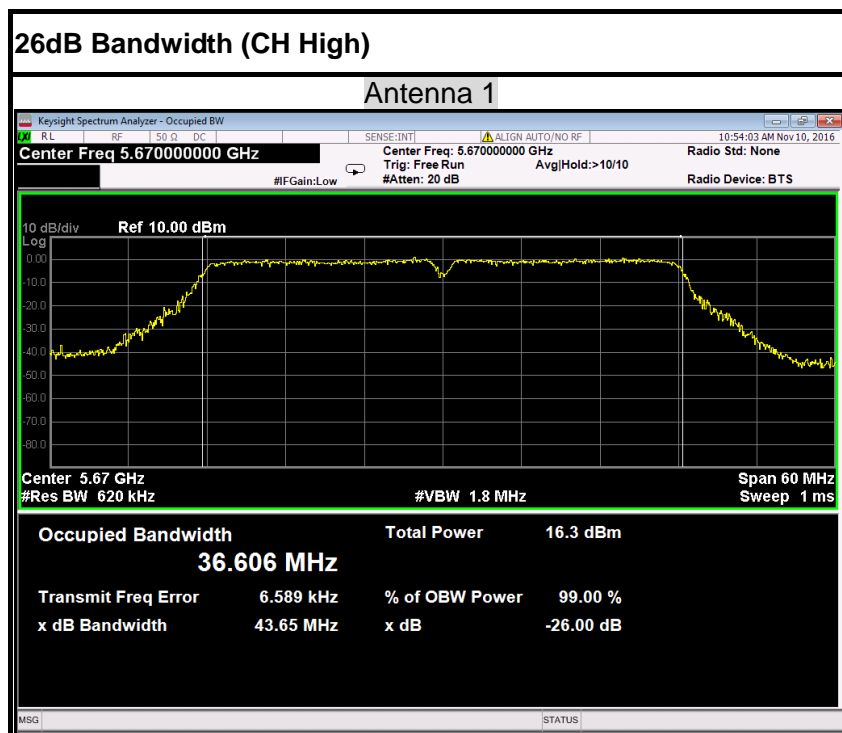
IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

26dB Bandwidth (CH Low)



26dB Bandwidth (CH Mid)



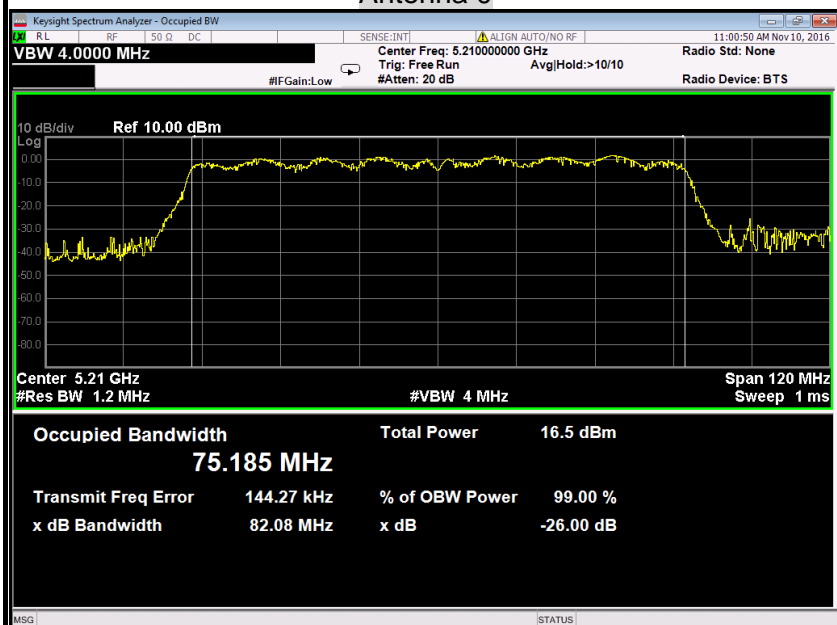




IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

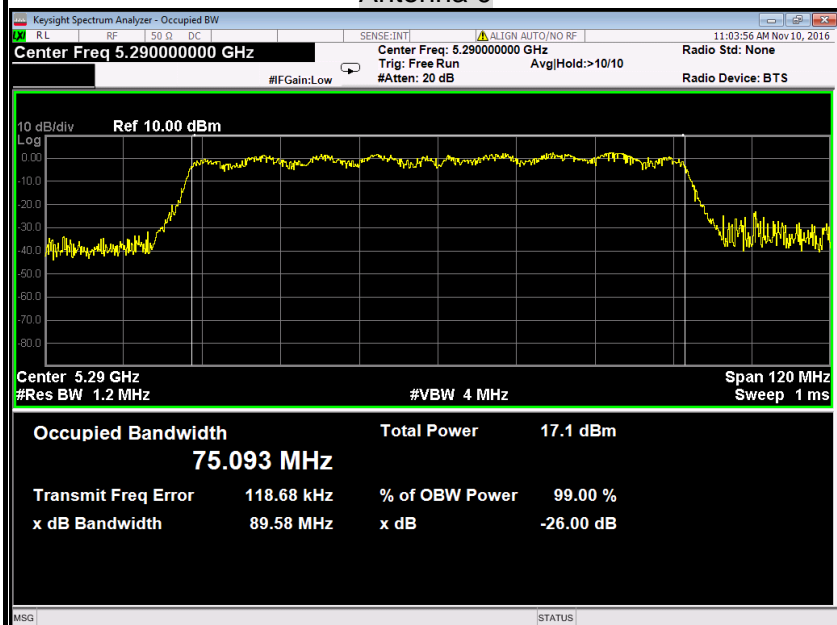
Antenna 0



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 0

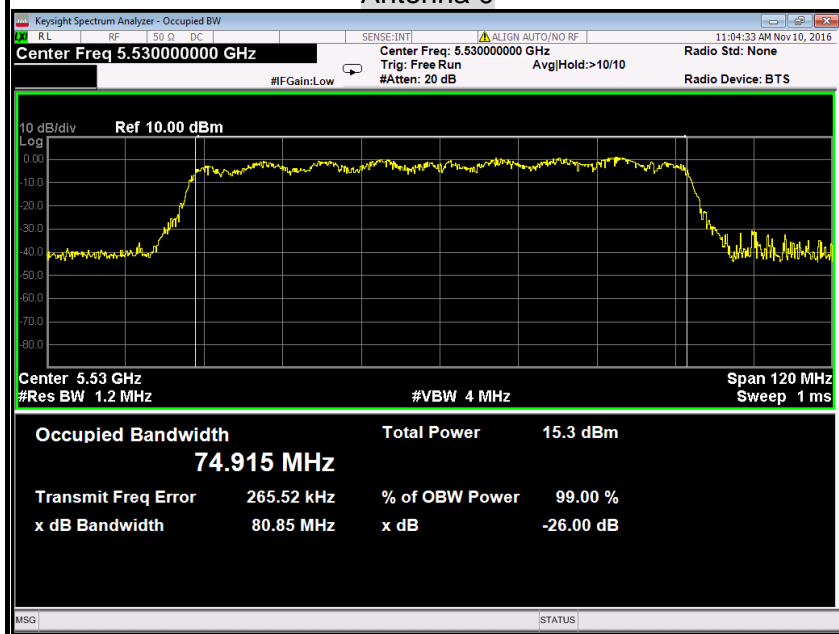




IEEE 802.11ac 80 mode / 5530MHz

26dB Bandwidth

Antenna 0

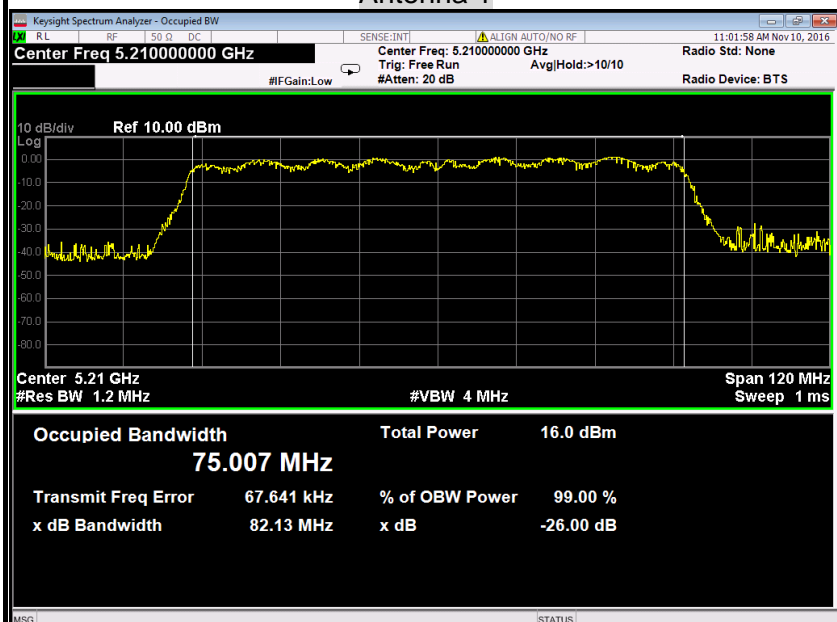




IEEE 802.11ac 80 mode / 5210MHz

26dB Bandwidth

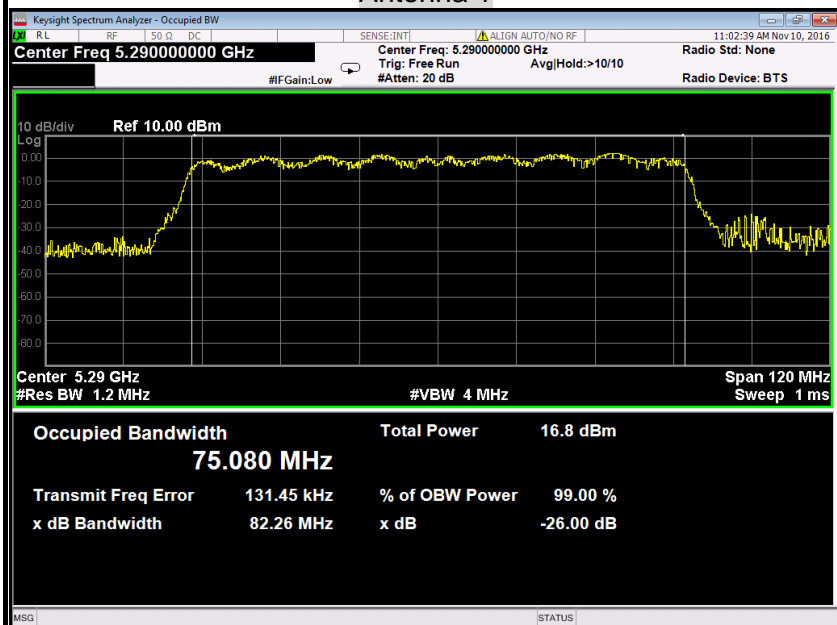
Antenna 1



IEEE 802.11ac 80 mode / 5290MHz

26dB Bandwidth

Antenna 1

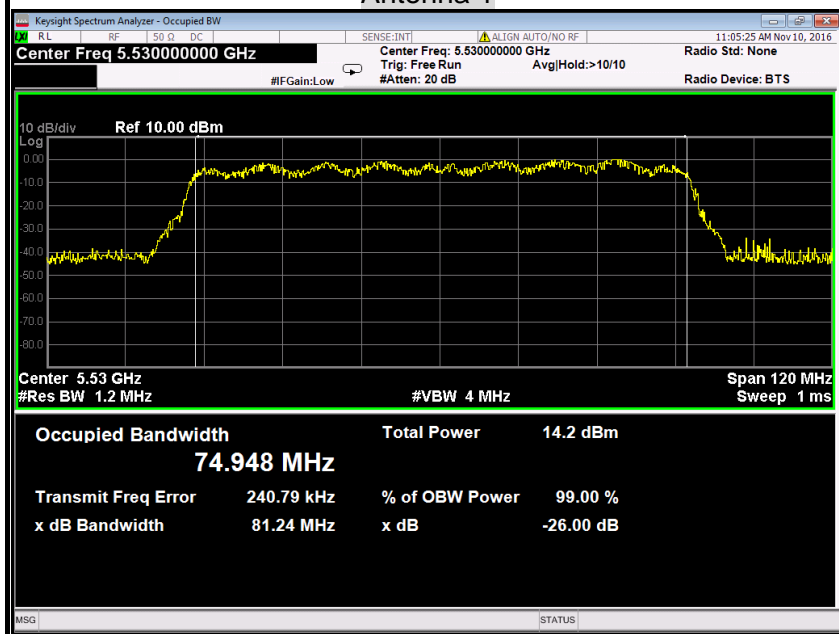




IEEE 802.11ac 80 mode / 5530MHz

26dB Bandwidth

Antenna 1





6.2 6dB BANDWIDTH MEASUREMENT

6.2.1 LIMITS

According to §15.407(e), Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

6.2.2 TEST INSTRUMENTS

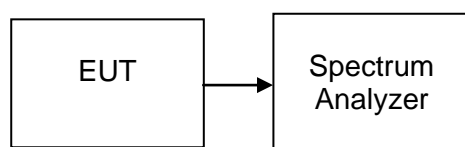
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

6.2.3 TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

6.2.4 TEST SETUP





6.2.5 TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	5745	16.59	16.58	>500	PASS
Mid	5785	16.58	16.58		PASS
High	5825	16.58	16.58		PASS

Test mode: IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	5745	17.70	17.69	>500	PASS
Mid	5785	17.66	17.76		PASS
High	5825	17.66	17.73		PASS

Test mode: IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

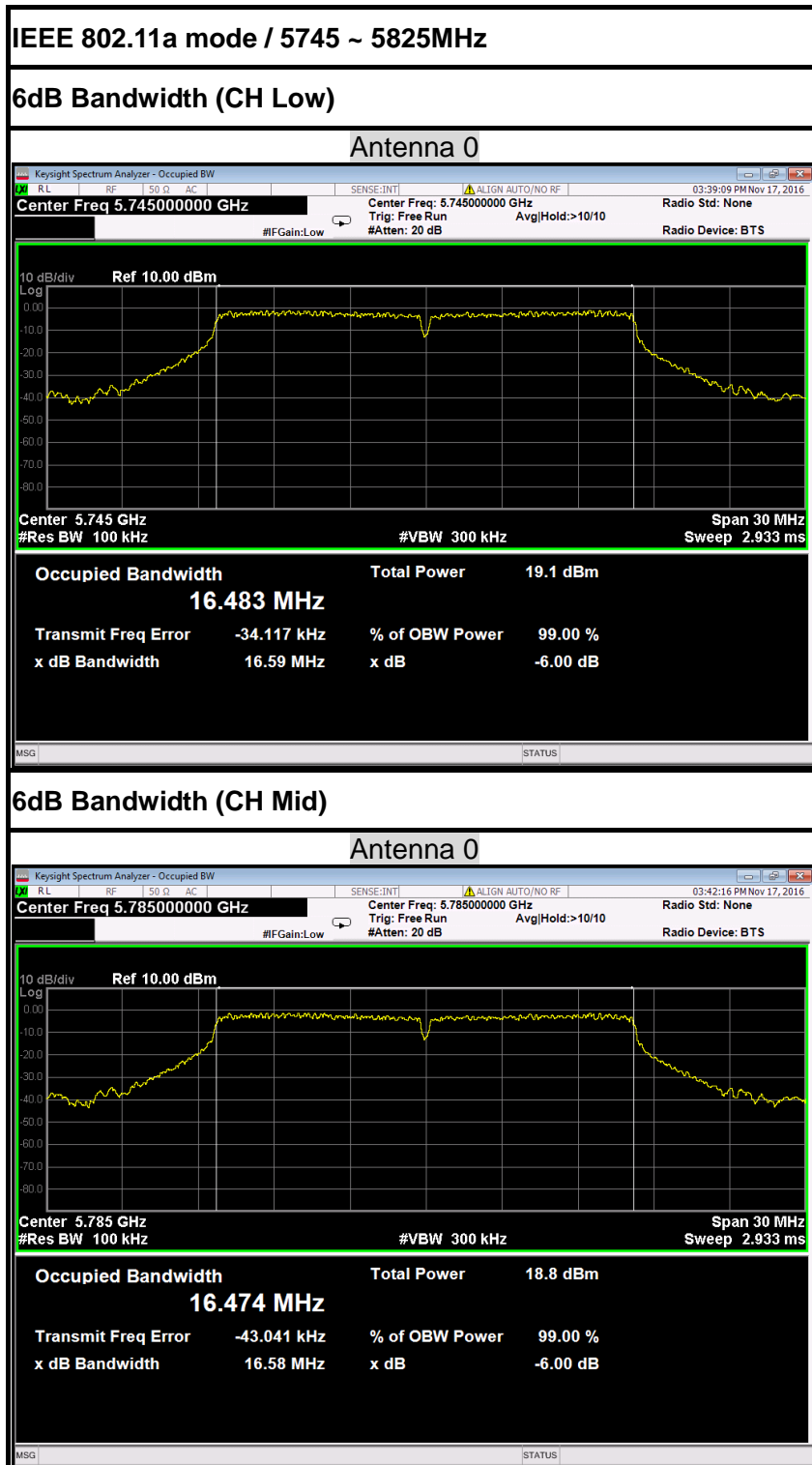
Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	5755	36.52	36.54	>500	PASS
High	5795	36.56	36.56		PASS

Test mode: IEEE 802.11ac 80 mode / 5775MHz

Channel	Frequency (MHz)	6dB Bandwidth(B) (MHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
	5775	76.14	76.12	>500	PASS



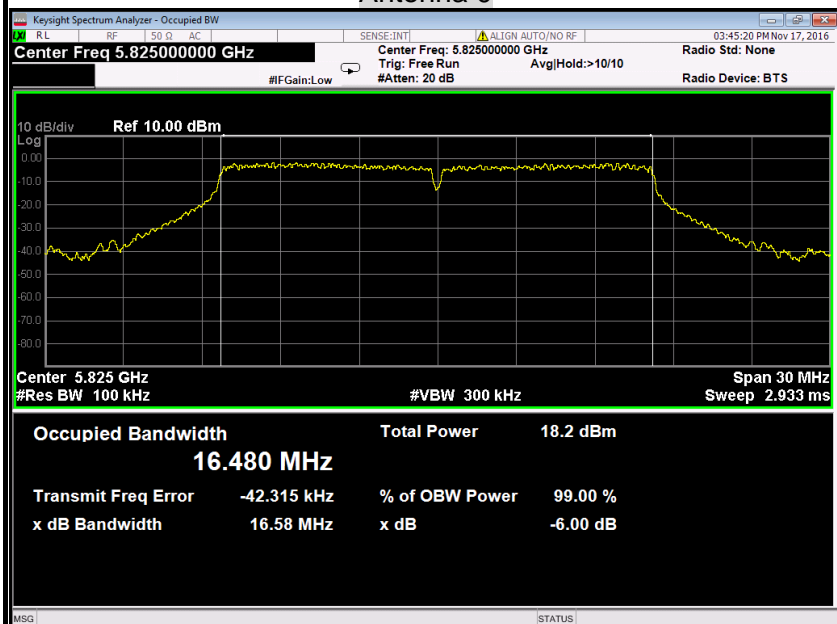
Test Plot





6dB Bandwidth (CH High)

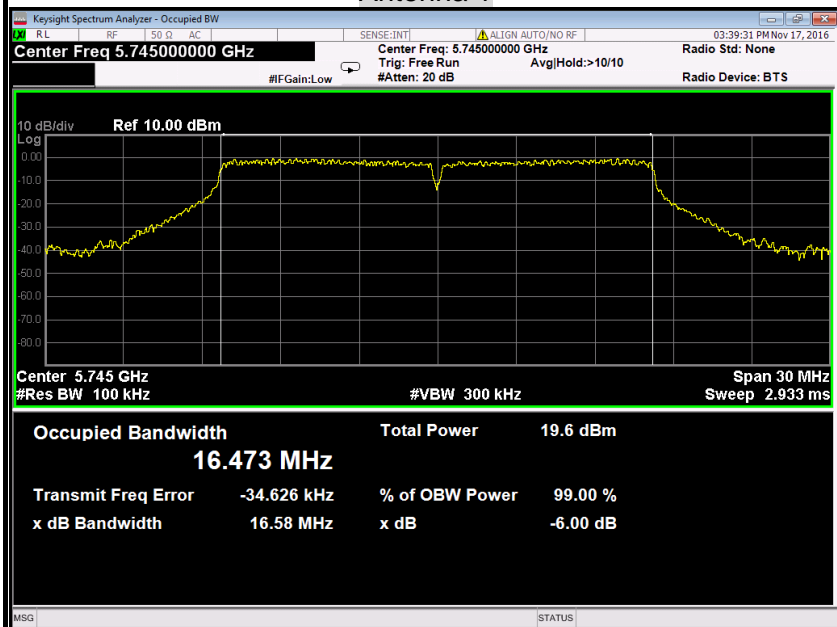
Antenna 0



IEEE 802.11a mode / 5745 ~ 5825MHz

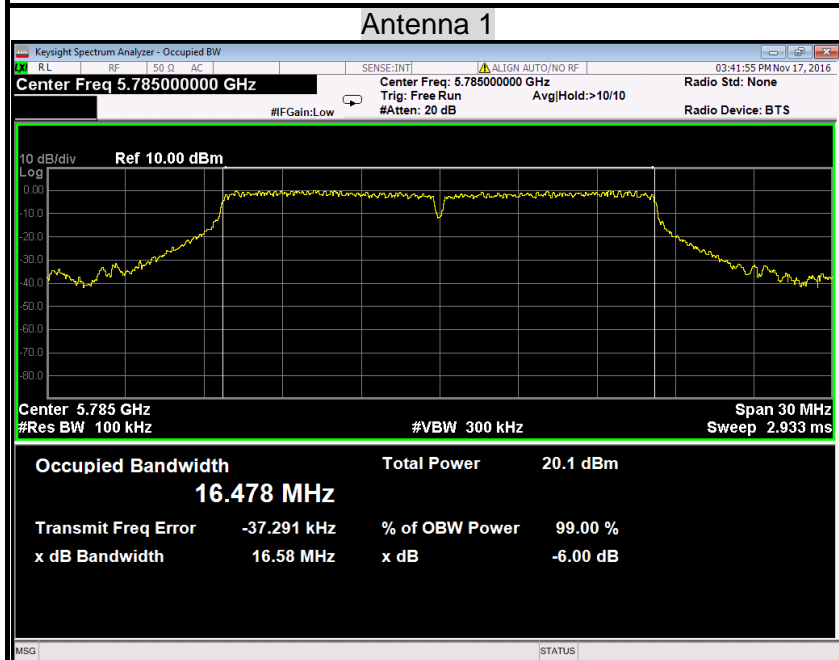
6dB Bandwidth (CH Low)

Antenna 1

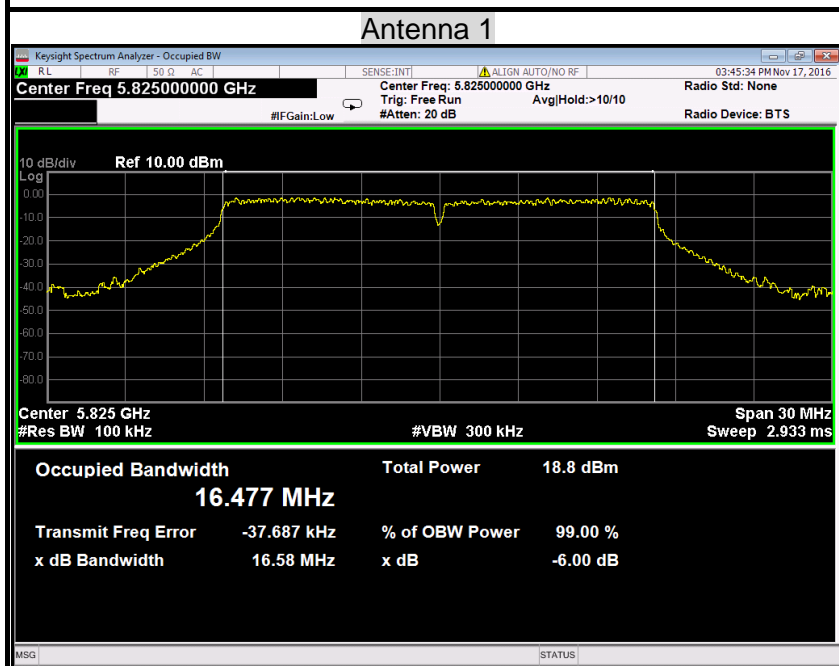




6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)

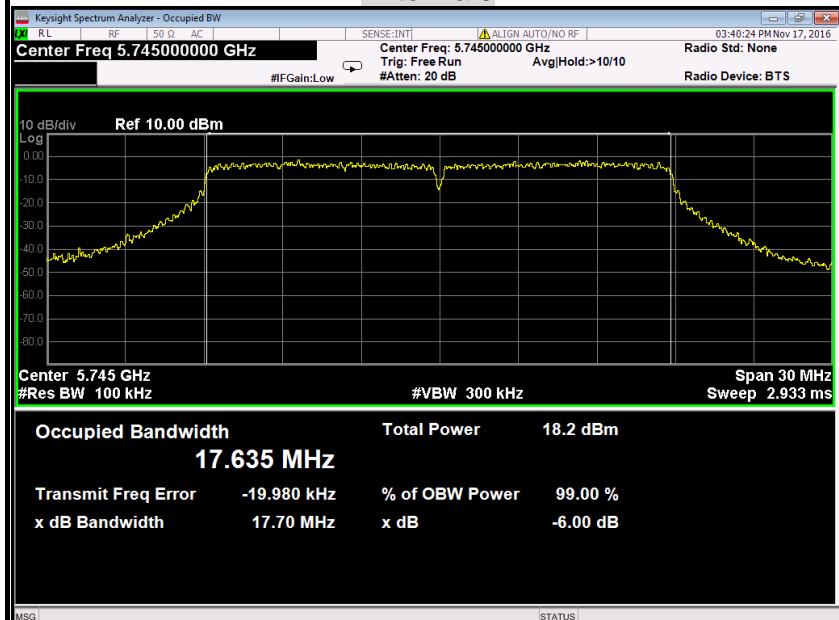




IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

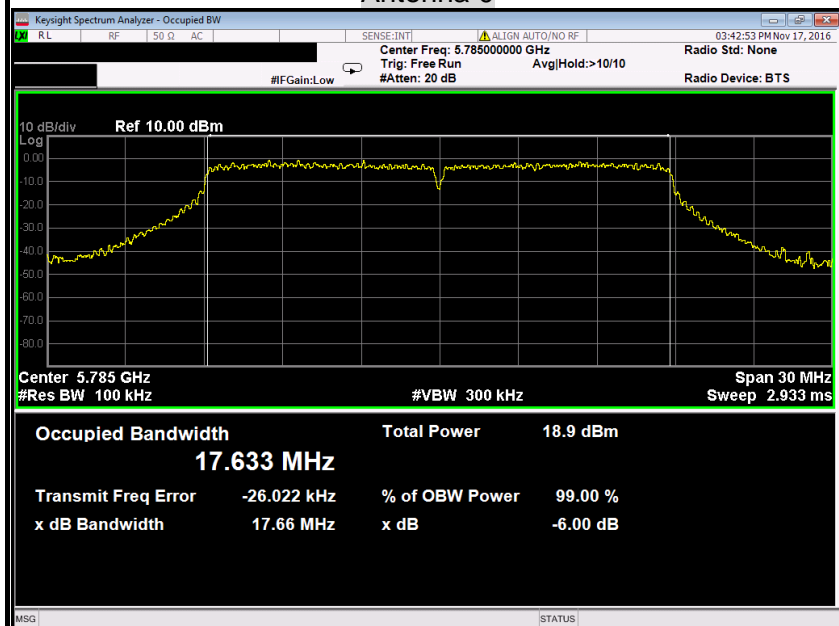
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH Mid)

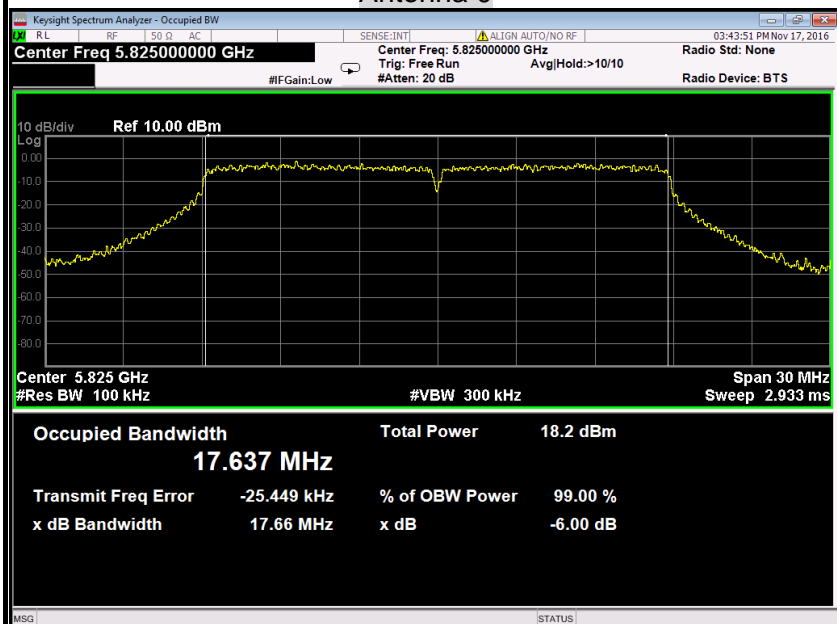
Antenna 0





6dB Bandwidth (CH High)

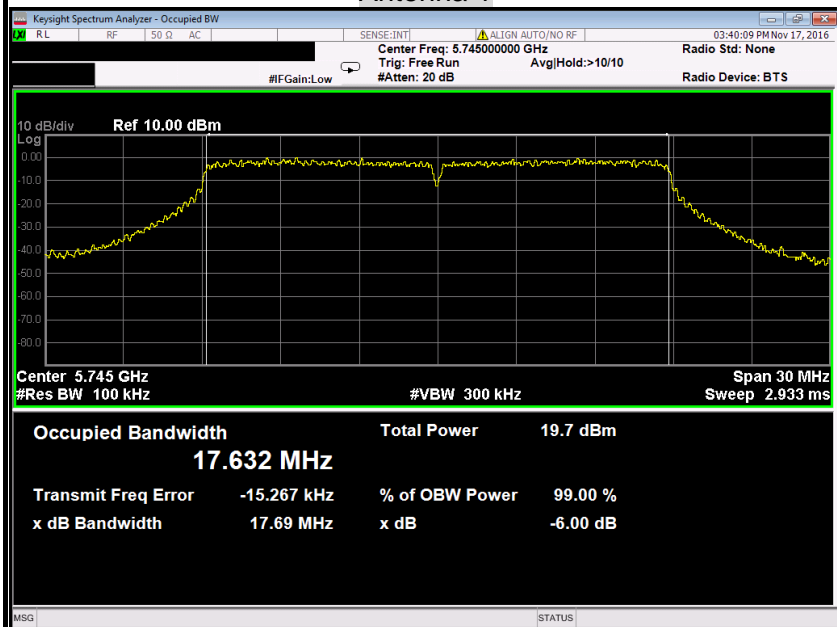
Antenna 0



IEEE 802.11n HT 20 MHz mode / 5745 ~ 5825MHz

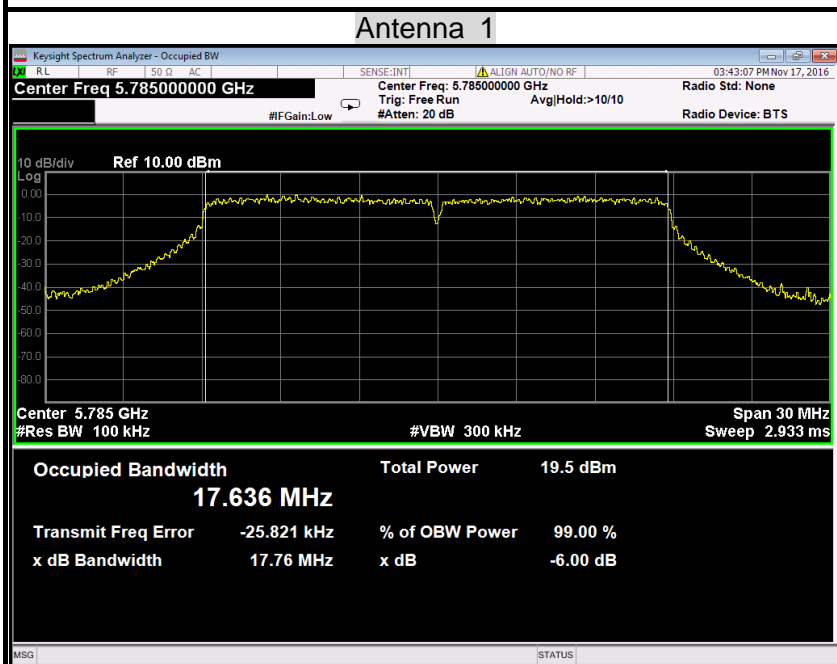
6dB Bandwidth (CH Low)

Antenna 1

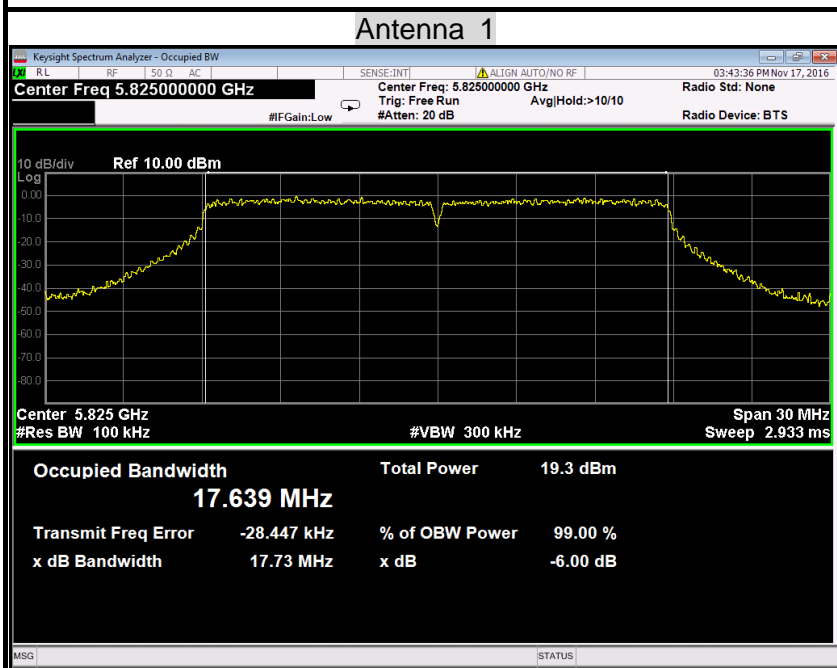




6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)

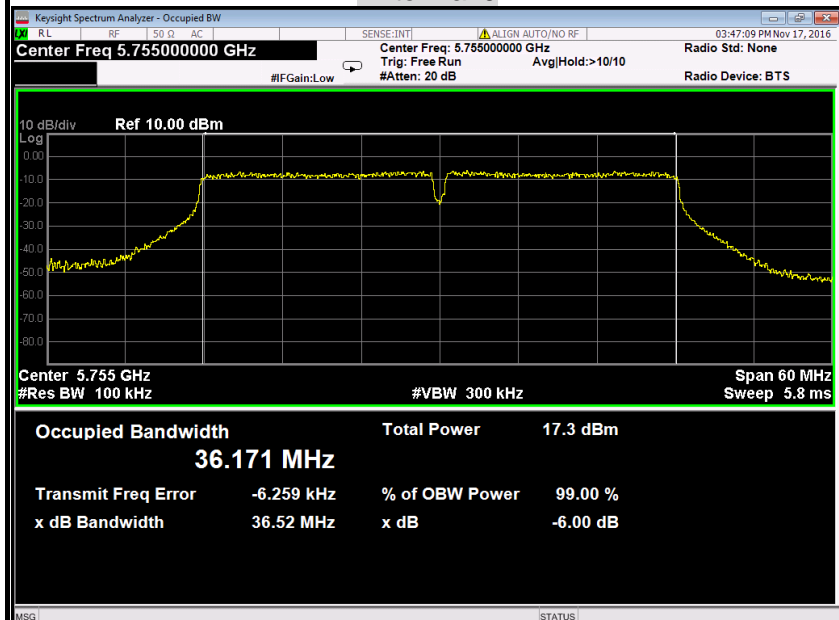




IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

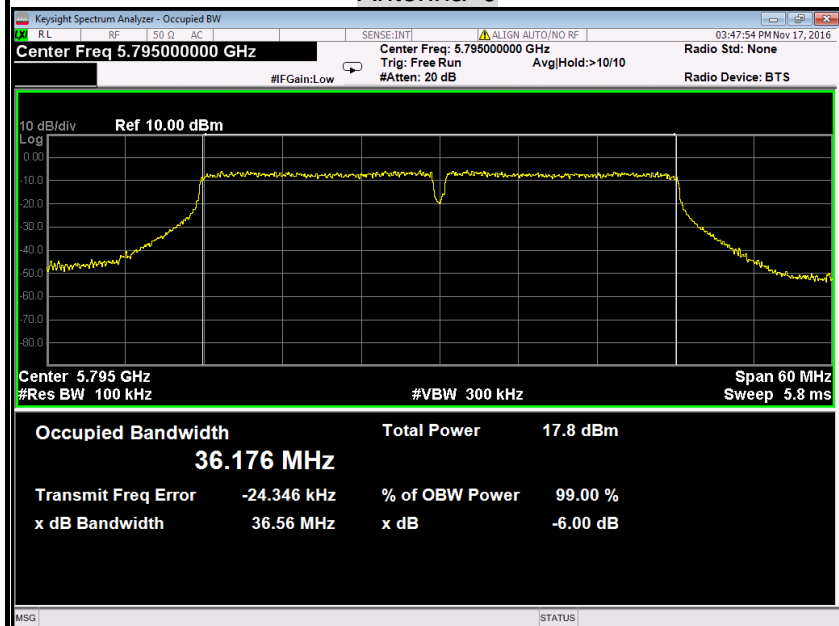
6dB Bandwidth (CH Low)

Antenna 0



6dB Bandwidth (CH High)

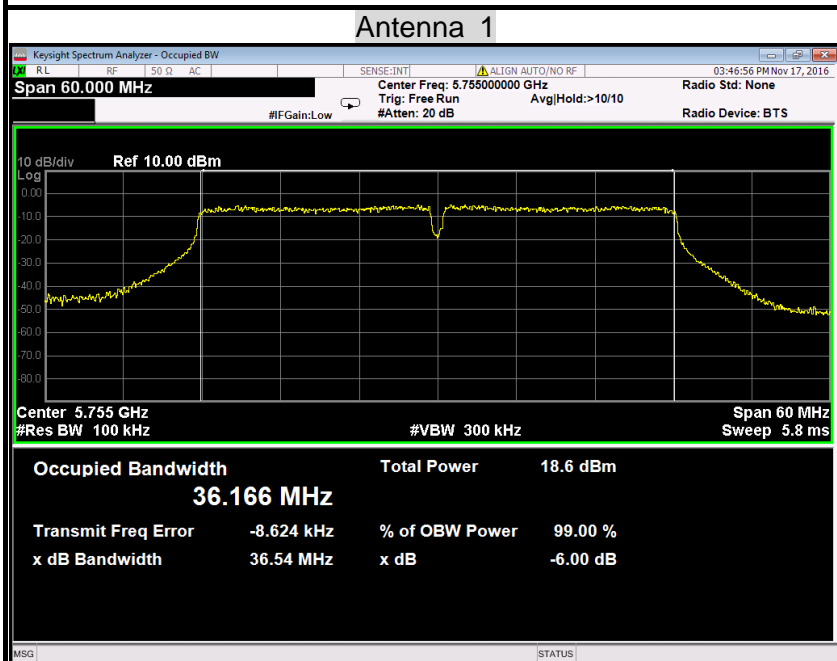
Antenna 0



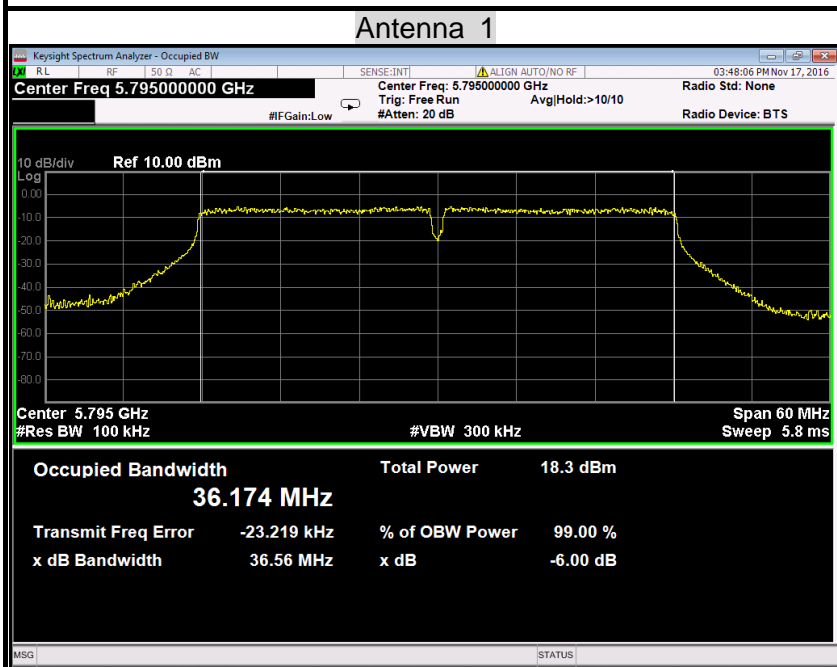


IEEE 802.11n HT 40 MHz mode / 5755 ~ 5795MHz

6dB Bandwidth (CH Low)



6dB Bandwidth (CH High)

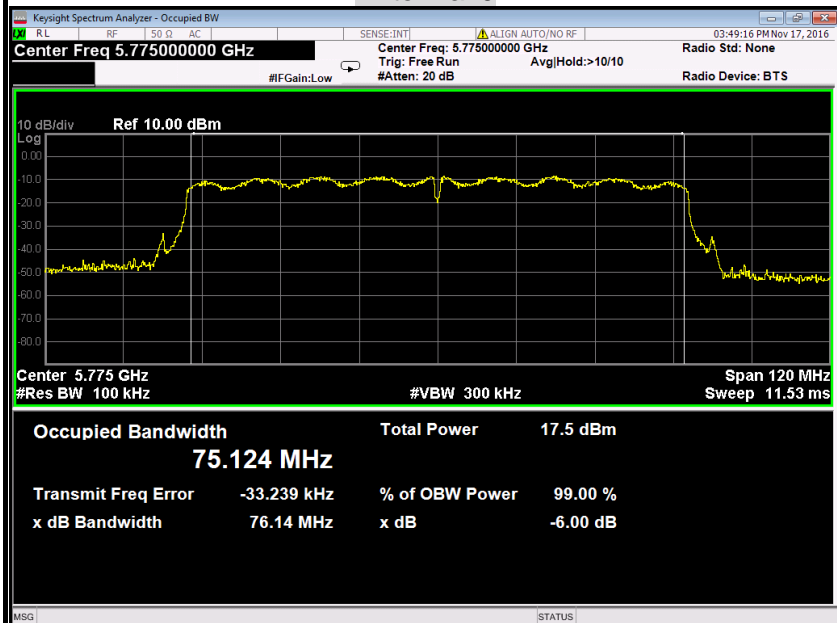




IEEE 802.11ac 80 MHz mode / 5775MHz

6dB Bandwidth

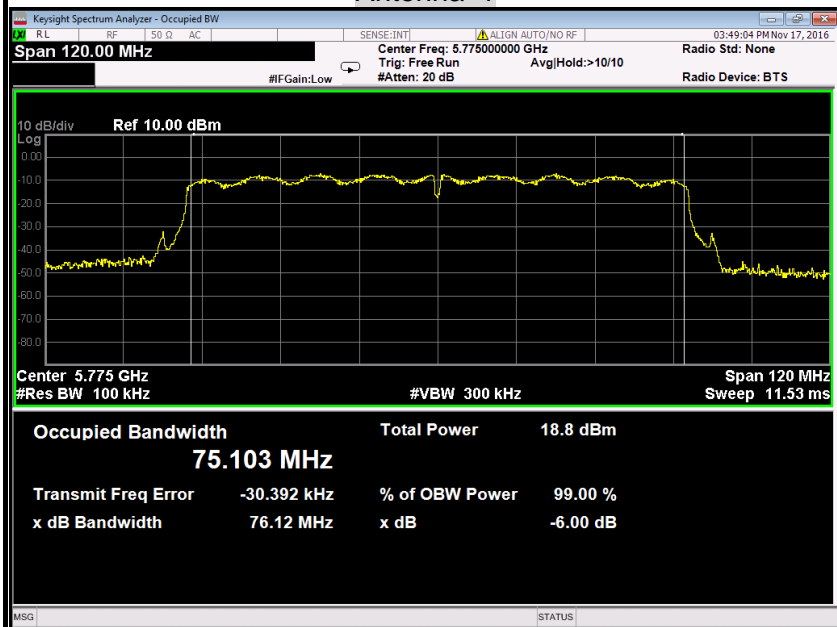
Antenna 0



IEEE 802.11ac 80 MHz mode / 5775MHz

6dB Bandwidth

Antenna 1





6.3 ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For UNII devices, the IEEE 802.11a mode is used.

MEASUREMENT PARAMETERS

Measurement parameter	
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

LIMITS

FCC	IC
Antenna Gain	
6 dBi	



TEST RESULTS

IEEE 802.11a mode

Antenna 0

IEEE 802.11a mode / 5180 ~ 5240MHz

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz
Conducted power [dBm] Measured with OFDM modulation		1.96	2.11
Radiated power [dBm] Measured with OFDM modulation		3.54	3.67
Gain [dBi] Calculated		1.58	1.55
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		2.08	3.25
Radiated power [dBm] Measured with OFDM modulation		3.96	5.03
Gain [dBi] Calculated		1.88	1.78
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power [dBm] Measured with OFDM modulation		0.73	1.74
Radiated power [dBm] Measured with OFDM modulation		2.06	3.25
Gain [dBi] Calculated		1.33	1.51
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power [dBm] Measured with OFDM modulation		1.45	2.04
Radiated power [dBm] Measured with OFDM modulation		3.21	3.85
Gain [dBi] Calculated		1.76	1.81
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

**Antenna 1****IEEE 802.11a mode / 5180 ~ 5240MHz**

T _{nom}	V _{nom}	Lowest channel 5180MHz	Highest channel 5240MHz
Conducted power [dBm] Measured with OFDM modulation		1.53	1.41
Radiated power [dBm] Measured with OFDM modulation		3.29	3.15
Gain [dBi] Calculated		1.76	1.74
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5260 ~ 5320MHz

T _{nom}	V _{nom}	Lowest channel 5260MHz	Highest channel 5320MHz
Conducted power [dBm] Measured with OFDM modulation		1.74	3.24
Radiated power [dBm] Measured with OFDM modulation		3.25	5.09
Gain [dBi] Calculated		1.51	1.85
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5500 ~ 5700MHz

T _{nom}	V _{nom}	Lowest channel 5500MHz	Highest channel 5700MHz
Conducted power [dBm] Measured with OFDM modulation		0.34	1.58
Radiated power [dBm] Measured with OFDM modulation		1.86	3.54
Gain [dBi] Calculated		1.52	1.96
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	

IEEE 802.11a mode / 5745 ~ 5825MHz

T _{nom}	V _{nom}	Lowest channel 5745MHz	Highest channel 5825MHz
Conducted power [dBm] Measured with OFDM modulation		0.81	1.90
Radiated power [dBm] Measured with OFDM modulation		2.13	3.87
Gain [dBi] Calculated		1.32	1.97
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)	



6.4 OUTPUT POWER

6.4.1 LIMIT

According to §15.407(a)& FCC R&O FCC 14 - 30,

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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



(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.



Specified Limit of the Output Power

Test mode: IEEE 802.11a mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5260	20.93	20.99	13.21	13.22	24.21	24.22	24.00	24.00
Mid	5300	20.67	21.05	13.15	13.23	24.15	24.23	24.00	24.00
High	5320	20.98	21.17	13.22	13.26	24.22	24.26	24.00	24.00

Test mode: IEEE 802.11a mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5500	20.97	21.06	13.22	13.23	24.22	24.23	24.00	24.00
Mid	5580	21.05	20.97	13.23	13.22	24.23	24.22	24.00	24.00
High	5700	20.87	20.83	13.20	13.19	24.20	24.19	24.00	24.00

Test mode: IEEE 802.11n HT 20 MHz mode / 5260 ~ 5320MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5260	21.59	21.74	13.34	13.37	24.34	24.37	24.00	24.00
Mid	5300	21.74	21.79	13.37	13.38	24.37	24.38	24.00	24.00
High	5320	21.34	21.55	13.29	13.33	24.29	24.33	24.00	24.00

Test mode: IEEE 802.11n HT 20 MHz mode / 5500 ~ 5700MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5500	21.35	21.86	13.29	13.40	24.29	24.40	24.00	24.00
Mid	5580	21.45	21.39	13.31	13.30	24.31	24.30	24.00	24.00
High	5700	21.62	21.43	13.35	13.31	24.35	24.31	24.00	24.00

**IEEE 802.11n HT 40 MHz mode / 5270 ~ 5310MHz**

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5270	43.42	43.41	16.38	16.38	27.38	27.38	24.00	24.00
High	5310	44.19	43.66	16.45	16.40	27.45	27.40	24.00	24.00

IEEE 802.11n HT 40 MHz mode / 5510 ~ 5670MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
Low	5510	42.90	43.23	16.32	16.36	27.32	27.36	24.00	24.00
Mid	5550	44.03	43.65	16.44	16.40	27.44	27.40	24.00	24.00
High	5670	43.57	43.65	16.39	16.40	27.39	27.40	24.00	24.00

IEEE 802.11ac 80 mode / 5290MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
	5290	89.58	82.26	16.00	19.15	30.52	30.15	24.00	24.00

IEEE 802.11ac 80 mode / 5530MHz

Channel	Frequency (MHz)	26 dB Bandwidth (B) (MHz)		10*Log(B) (dB)		11 + 10*Log(B) (dBm)		Maximum Conducted Output Power Limit (dBm)	
		Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1	Antenna 0	Antenna 1
	5530	80.85	81.24	16.00	19.10	30.08	30.10	24.00	24.00

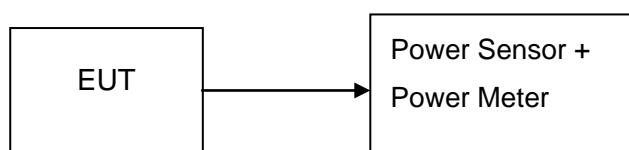


6.4.2 MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017

Remark: Each piece of equipment is scheduled for calibration once a year.

6.4.3 TEST CONFIGURATIONS



6.4.4 TEST PROCEDURE

The EUT was connected to a Power Meter through a 50Ω RF cable.

6.4.5 TEST RESULTS

No non-compliance noted