

FCC Test Report (Class II Permissive Change)

Product Name	Intel® Wireless-AC 9560
Model No	9560NGW
FCC ID	2ANPM9560NG

Applicant	Nexstgo Company Limited
Address	FLAT/RM 1602 16/F ENTERPRISE SQUARE TOWER II NO.9 SHEUNG YUET ROAD, KOWLOON BAY, Hong Kong

Date of Receipt	Oct. 24, 2018
Issued Date	Dec. 10, 2018
Report No.	18A0330R-RFUSP12V00-A
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issued Date: Dec. 10, 2018

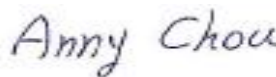
Report No.: 18A0330R-RFUSP12V00-A



Product Name	Intel® Wireless-AC 9560
Applicant	Nexstgo Company Limited
Address	FLAT/RM 1602 16/F ENTERPRISE SQUARE TOWER II NO.9 SHEUNG YUET ROAD, KOWLOON BAY, Hong Kong
Manufacturer	Intel Mobile Communications France SAS
Model No.	9560NGW
FCC ID.	2ANPM9560NG
EUT Rated Voltage	DC 3.3V
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2017 ANSI C63.4: 2014, ANSI C63.10: 2013 789033 D02 General UNII Test Procedures New Rules v02
Test Result	Complied

Documented By

:



(Senior Adm. Specialist / Anny Chou)

Tested By

:



(Assistant Engineer / Yunche Chen)

Approved By

:



(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Intel® Wireless-AC 9560
Trade Name	Intel
FCC ID.	2ANPM9560NG
Model No.	9560NGW
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz, 5745-5825MHz 802.11n-40MHz: 5190-5310MHz, 5510-5670MHz, 5755-5795MHz 802.11ac-20MHz: 5720MHz, 802.11ac-40MHz: 5710MHz 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz, 5775MHz 802.11ac-160MHz: 5250MHz, 5570MHz
Number of Channels	802.11a/n-20MHz: 24, 802.11n-40MHz: 11 802.11ac-20MHz: 1, 802.11ac-40MHz: 1 802.11ac-80MHz: 6, 802.11ac-160MHz: 2
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7Mbps 802.11ac-160MHz: up to 1733.3Mbps
Type of Modulation	802.11a/n/ac:OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna Type	PIFA/SLOT Antenna
Channel Control	Auto
Antenna Gain	Refer to the table “Antenna List”
Test Platform.	Brand Name: Nexstgo, M/N: NZ14N1

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Jieng Tai International Electronic Corp.	JT1805YY0311 (Main) JT1805YY1511 (Aux)	PIFA	2.41dBi for 5.15-5.25 GHz 1.96dBi for 5.25-5.35 GHz 1.71dBi for 5.47-5.725 GHz 1.27 dBi for 5.725~5.850GHz
2	Well Green Technology Co., LTD.	SNSUPWIPB01 (Main) SNSUPWIPB03 (Aux)	SLOT	-0.13dBi for 5.15-5.25 GHz 1.49dBi for 5.25-5.35 GHz 0.73dBi for 5.47-5.725 GHz 0.66 dBi for 5.725~5.850GHz

Note : (1)The antenna of EUT is conform to FCC 15.203.

(2)Well Green Technology antenna(No2) was tested and recorded in this report since it represents different Antenna Type.

802.11a/n-20MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 36:	5180 MHz	Channel 40:	5200 MHz	Channel 44:	5220 MHz	Channel 48:	5240 MHz
Channel 52:	5260 MHz	Channel 56:	5280 MHz	Channel 60:	5300 MHz	Channel 64:	5320 MHz
Channel 100:	5500 MHz	Channel 104:	5520 MHz	Channel 108:	5540 MHz	Channel 112:	5560 MHz
Channel 116:	5580 MHz	Channel 120:	5600 MHz	Channel 124:	5620 MHz	Channel 128:	5640 MHz
Channel 132:	5660 MHz	Channel 136:	5680 MHz	Channel 140:	5700 MHz	Channel 149:	5745 MHz
Channel 153:	5765 MHz	Channel 157:	5785 MHz	Channel 161:	5805 MHz	Channel 165:	5825 MHz

802.11n-40MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 38:	5190 MHz	Channel 46:	5230 MHz	Channel 54:	5270 MHz	Channel 62:	5310 MHz
Channel 102:	5510 MHz	Channel 110:	5550 MHz	Channel 118:	5590 MHz	Channel 126:	5630 MHz
Channel 134:	5670 MHz	Channel 151:	5755 MHz	Channel 159:	5795 MHz		

802.11ac-20MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 144:	5720 MHz

802.11ac-40MHz Center Working Frequency of Each Channel:

Channel	Frequency
Channel 142:	5710 MHz

802.11ac-80MHz Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 42:	5210 MHz	Channel 58:	5290 MHz	Channel 106:	5530 MHz	Channel 122:	5610 MHz
Channel 138:	5690 MHz	Channel 155:	5775 MHz				

802.11ac-160MHz Center Working Frequency of Each Channel:

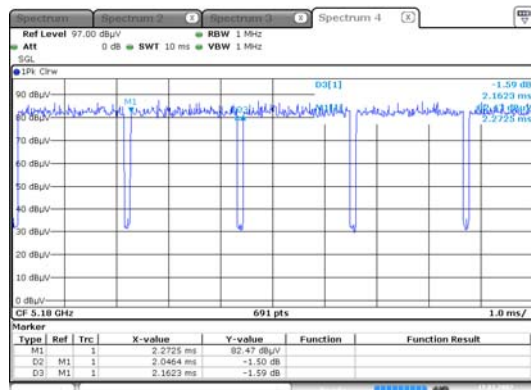
Channel	Frequency	Channel	Frequency
Channel 50:	5250 MHz	Channel 114:	5570 MHz

Duty Cycle:

802.11a	0.95	802.11ac20	0.82
802.11n-20	0.83	802.11ac40	0.84
802.11n-40	0.83	802.11ac-80	0.81
		802.11ac-160	0.79

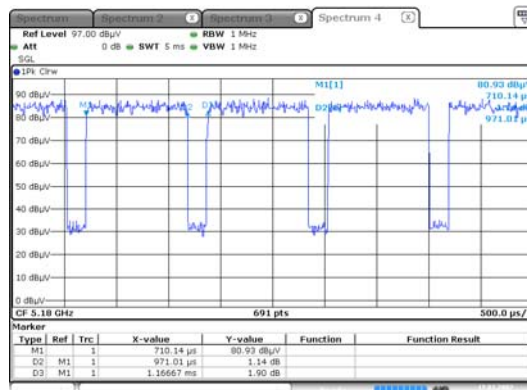
*Duty cycle = Ton / (Ton + Toff)

802.11a:



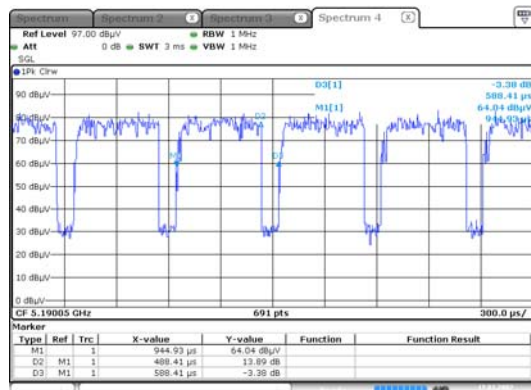
Date: 17 JAN 2007 12:59:22

802.11n-20:



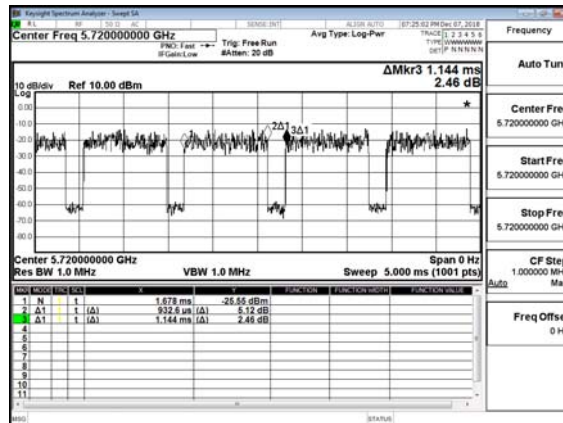
Date: 17 JAN 2007 13:09:52

802.11n-40:

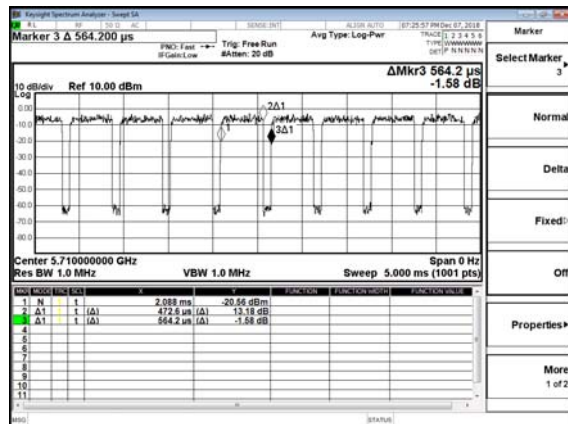


Date: 17 JAN 2007 13:11:52

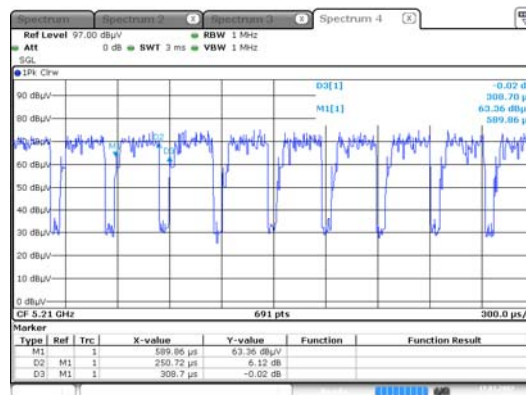
802.11ac-20:



802.11ac-40:

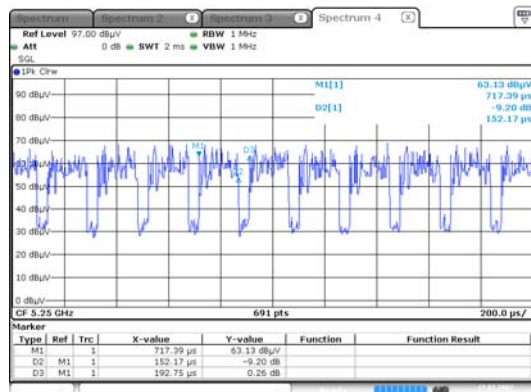


802.11ac-80:



Date: 17 JAN 2007 13:24:15

802.11ac-160:



Date: 17 JAN 2007 14:10:57

Note:

1. This device is a Intel® Wireless-AC 9560 with a built-in WLAN 、Bluetooth transceiver, this report for 5G WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
4. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart E for Unlicensed National Information Infrastructure devices.
5. This is to request a Class II permissive change for FCC ID: 2ANPM9560NG, originally granted on 11/20/2018.

The major change filed under this application is:

Change #1: Additional Chassis added, Nexstgo, model number: NZ14N1.

Change #2: Add two new antennas, the antenna type(Slot antenna) of Antenna List (No. 2) is different than the original application, the type(PIFA antenna) of Antenna List (No. 1) is the same as the original application . And the gains of all antennas are lower than the original application.

Test Mode	Mode 1 SISO A: Transmit (802.11a-6Mbps) Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps) Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps) Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps) Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps) Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps) Mode 1 SISO A: Transmit (802.11ac-160BW_65Mbps) Mode 2 SISO B: Transmit (802.11a-6Mbps) Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps) Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps) Mode 2 SISO B: Transmit (802.11ac-20BW-7.2Mbps) Mode 2 SISO B: Transmit (802.11ac-40BW-15Mbps) Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps) Mode 2 SISO B: Transmit (802.11ac-160BW_65Mbps) Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps) Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps) Mode 3 MIMO: Transmit (802.11ac-20BW-14.4Mbps) Mode 3 MIMO: Transmit (802.11ac-40BW-30Mbps) Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps) Mode 3 MIMO: Transmit (802.11ac-160BW_130Mbps)
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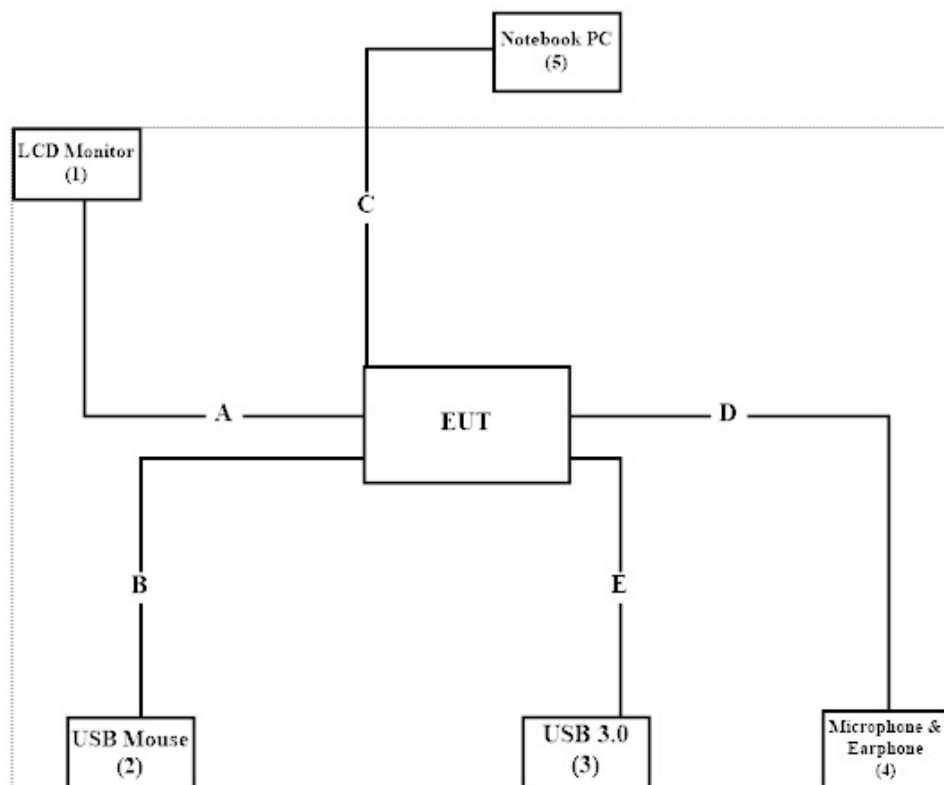
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 LCD Monitor	ASUS	VS229HA	F4LMQS135395	N/A
2 USB Mouse	Logitech	M-U0026	1245HS0684K8	N/A
3 USB 3.0(1T)	Transcend	TS1TSJ25M3	C13890-3746	N/A
4 Microphone & Earphone	Ergotech	E201	N/A	N/A
5 Notebook PC	DELL	Latitude 5580	2HRD7H2	N/A

Signal Cable Type	Signal cable Description
A HDMI Cable	Non-shielded, 1.6m
B Mouse Cable	Non-shielded, 1.7m
C USB to LAN Cable	Non-shielded, 0.15m
D Earphone Cable	Non-shielded, 1.9m
E USB Cable	Non-shielded, 0.2m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown on 1.4
- (2) Execute “DRTU (Ver 11.1812.0-07258)” program on the EUT.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Start the continuous transmission.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from DEKRA Testing and Certification Co., Ltd. Web Site:

<http://www.dekra.com.tw/english/about/certificates.aspx?bval=5>

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Site Description: Accredited by TAF
Accredited Number: 3023

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Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : info.tw@dekra.com

FCC Accreditation Number: TW3023

1.7. List of Test Equipment

For Conducted measurements /CB3/SR8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
	Temperature Chamber	WIT GROUP	TH-1S-B	EQ-201-00146	2018/02/12	2019/02/11
X	Spectrum Analyzer	Agilent	N9010A	MY53470892	2018/09/27	2019/09/26
X	Peak Power Analyzer	Keysight	8990B	MY51000410	2018/08/01	2019/07/31
X	Wideband Power Sensor	Keysight	N1923A	MY56080003	2018/07/25	2019/07/24
X	Wideband Power Sensor	Keysight	N1923A	MY56080004	2018/07/25	2019/07/24
	EMI Test Receiver	R&S	ESCS 30	100369	2018/11/19	2019/11/18
	LISN	R&S	ESH3-Z5	836679/017	2018/02/09	2019/02/08
	LISN	R&S	ENV216	100097	2018/02/09	2019/02/08
	Coaxial Cable	DEKRA	RG 400	LC018-RG	2018/06/21	2019/06/20

For Radiated measurements /Site3/CB8

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Date	Due. Date
X	Spectrum Analyzer	R&S	FSP40	100170	2018/03/12	2019/03/11
	Loop Antenna	Teseq	HLA6121	37133	2017/10/13	2019/10/12
X	Bilog Antenna	Schaffner Chase	CBL6112B	2707	2018/06/24	2019/06/23
X	Coaxial Cable	DEKRA	RG 214	LC003-RG	2018/06/14	2019/06/13
X	Pre-Amplifier	Jet-Power	JPA-10M1G33	17010100033001	2018/06/14	2019/06/13
X	Horn Antenna	ETS-Lindgren	3117	00135205	2018/05/03	2019/05/02
X	Horn Antenna	SCHWARZBECK	9120D	576	2018/11/30	2019/11/29
X	Pre-Amplifier	EMCI	EMC012630SE	980210	2018/04/10	2019/04/09
X	Horn Antenna	Com-Power	AH-840	101043	2018/01/09	2019/01/08
X	Amplifier + Cable	EMCI	EMC184045SE	980370	2018/03/21	2019/03/20
X	Filter	MICRO-TRONIC	BRM50702	G270	2018/08/06	2019/08/05
X	Filter	MICRO-TRONIC	BRM50716	G196	2018/08/06	2019/08/05

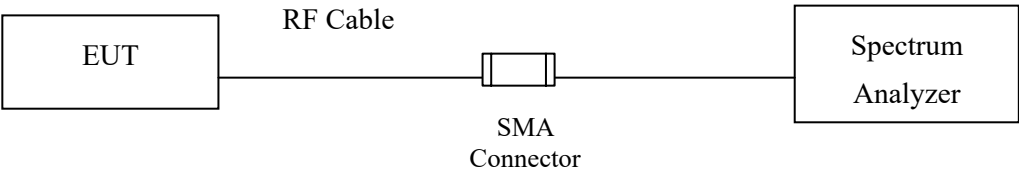
Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version :QuiTek EMI 2.0 V2.1.113.

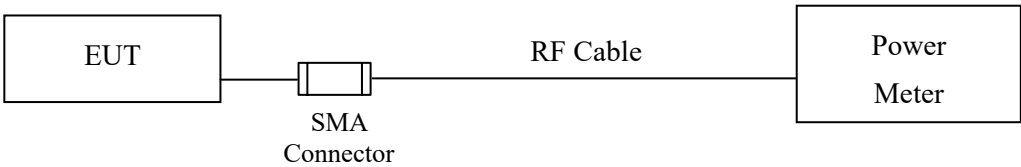
2. Maximun conducted output power

2.1. Test Setup

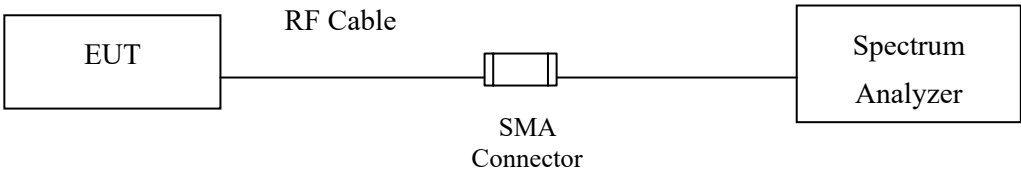
26dBc Occupied Bandwidth



Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



2.2. Limits

2.2.1. 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. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum 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. 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.

(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. 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. 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 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 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.

(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. 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.

2.2.2. 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. 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.

- 2.2.3. 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. 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. However, fixed point-to-point UNII 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.

2.3. Test Procedure

As an alternative to FCC KDB-789033, the EUT maximum conducted output power was measured with an average power meter employing a video bandwidth greater the 6dB BW of the emission under test. Maximum conducted output power was read directly from the meter across all data rates, and across three channels within each sub-band. Special care was used to make sure that the EUT was transmitting in continuous mode. This method exceeds the limitations of FCC KDB-789033, and provides more accurate measurements.

802.11an (BW $\leq$ 40MHz) Maximum conducted output power using KDB 789033 section E)3)b) Method PM-G (Measurement using a gated RF average power meter)

Note: the power meter have a video bandwidth that is greater than or equal to the measurement bandwidth, (Anritsu/ MA2411B video bandwidth: 65MHz)

802.11ac (BW=80MHz) Maximum conducted output power using KDB 789033 section E)2)b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep).

When transmitted signals consist of two or more non-contiguous spectrum segments (e.g., 80+80 MHz mode) or when a single spectrum segment of a transmission crosses the boundary between two adjacent U-NII bands, KDB 644545 D01 section F) procedure is used for measurements.

2.4. Uncertainty

± 1.62 dB

2.5. Test Result of Maximum conducted output power

Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11a-6Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	18.6	--	--	--	--	--	--	--	<24dBm
40	5200	21.17	21.07	20.9	20.82	20.73	20.63	20.57	20.40	<24dBm
48	5240	20.72	--	--	--	--	--	--	--	<24dBm
52	5260	20.85	--	--	--	--	--	--	--	<24dBm
56	5280	21.23	21.16	21.08	21.01	20.91	20.77	20.61	20.46	<24dBm
64	5320	16.15	--	--	--	--	--	--	--	<24dBm
100	5500	19.13	--	--	--	--	--	--	--	<24dBm
120	5600	20.66	20.55	20.37	20.20	20.04	19.93	19.80	19.67	<24dBm
140	5700	18.62	--	--	--	--	--	--	--	<24dBm
149	5745	20.83	--	--	--	--	--	--	--	<30dBm
157	5785	20.76	20.65	20.55	20.45	20.27	20.14	19.98	19.83	<30dBm
165	5825	20.89	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

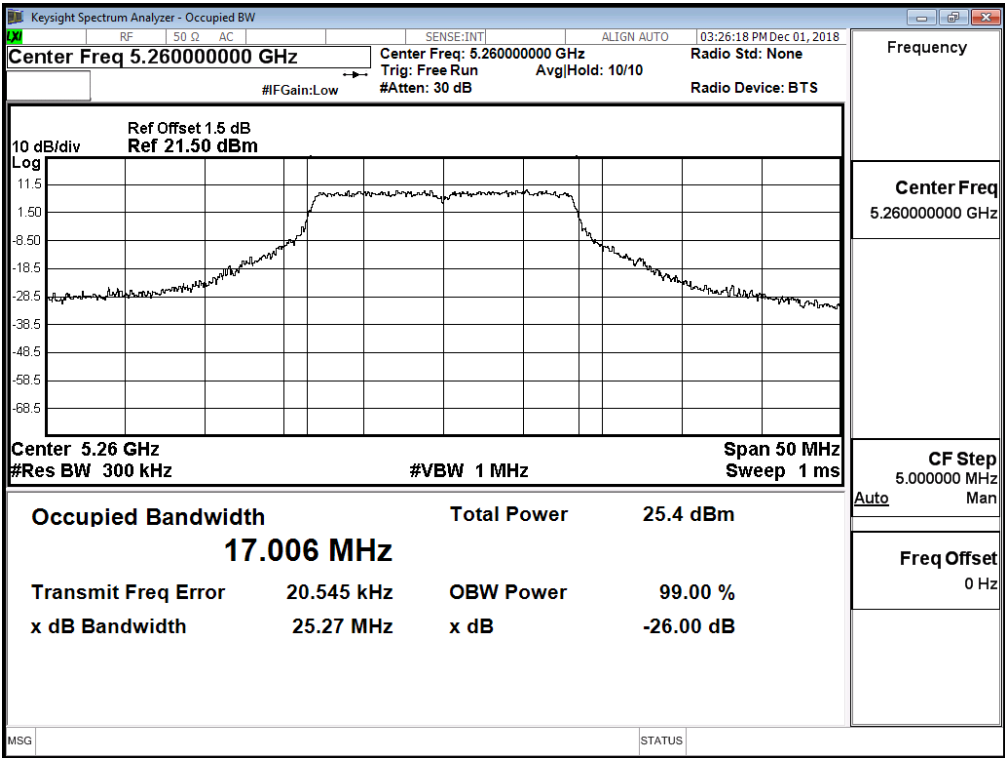
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	--	18.6	24	--
40	5200	--	21.17	24	--
48	5240	--	20.72	24	--
52	5260	17.006	20.85	24	23.31
56	5280	18.720	21.23	24	23.72
64	5320	16.961	16.15	24	23.29
100	5500	17.138	19.13	24	23.34
120	5600	17.194	20.66	24	23.35
140	5700	16.990	18.62	24	23.30
149	5745	--	20.83	30	--
157	5785	--	20.76	30	--
165	5825	--	20.89	30	--

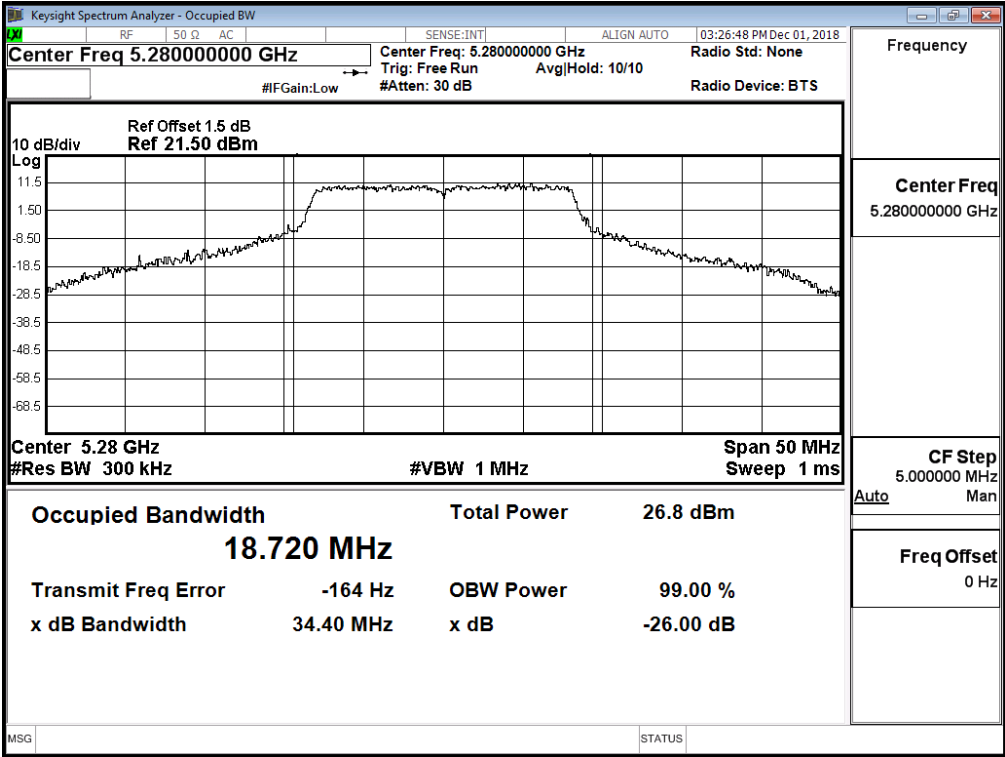
Note: Power Output Value = Reading value on average power meter + cable loss

99% Occupied Bandwidth:

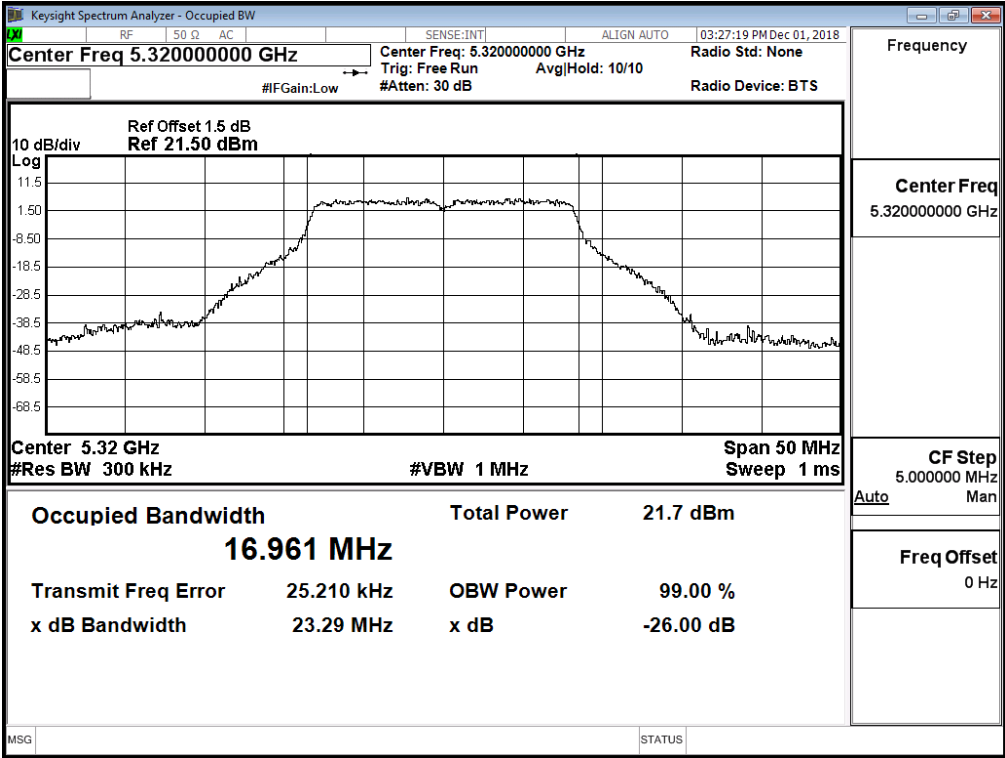
Channel 52:



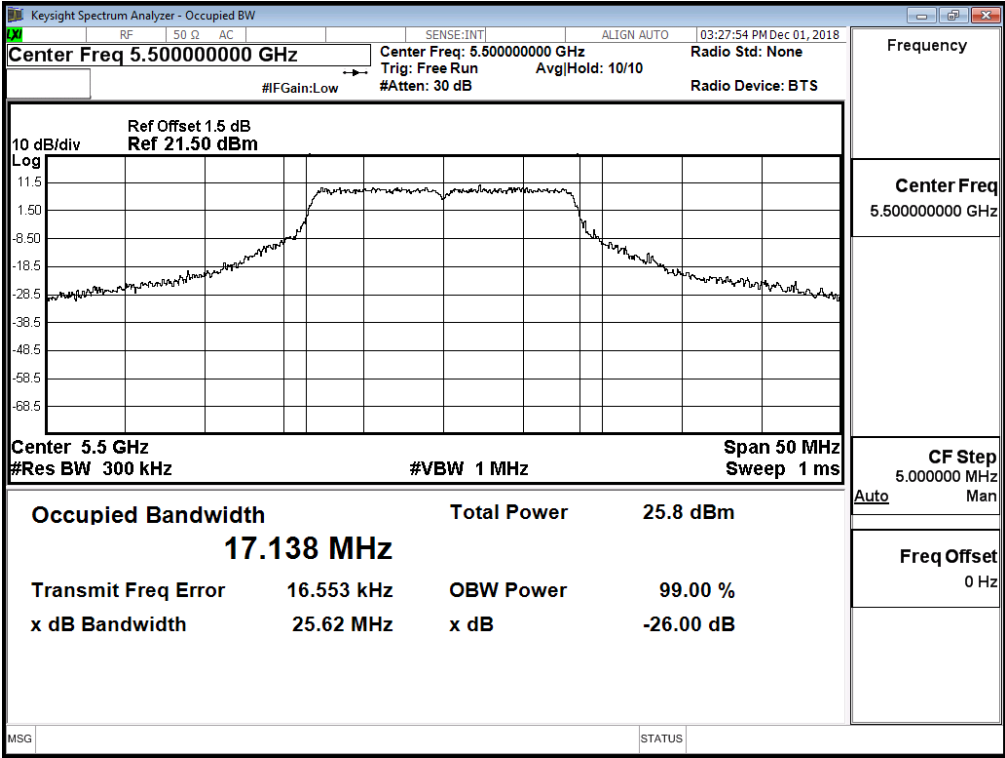
Channel 56:



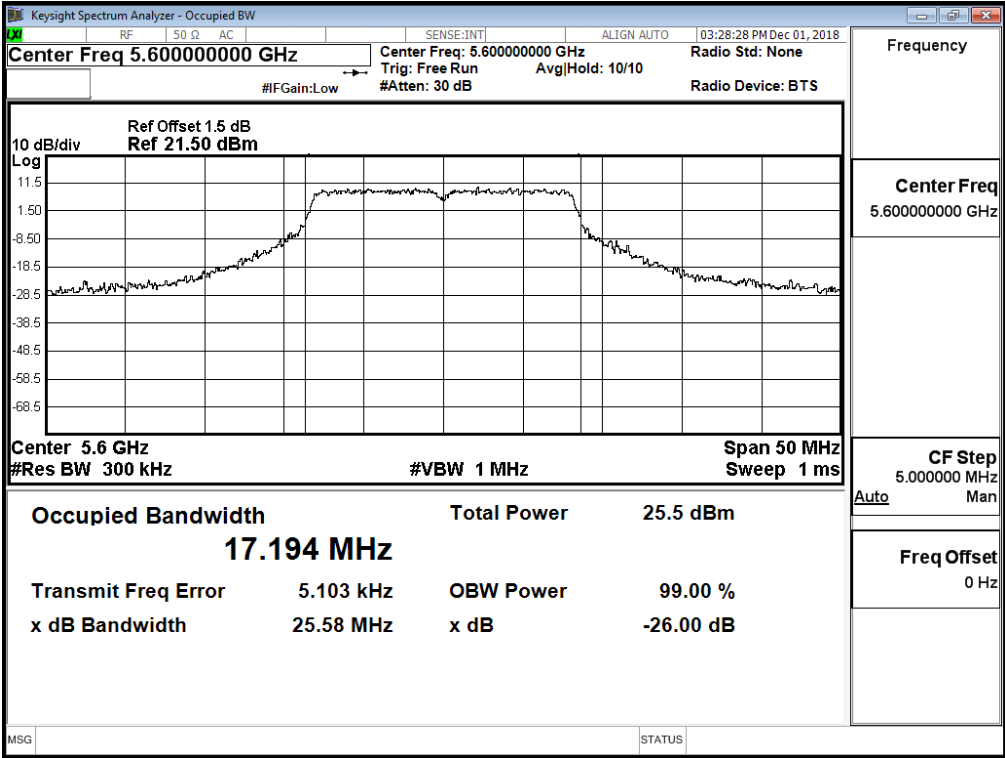
Channel 64:



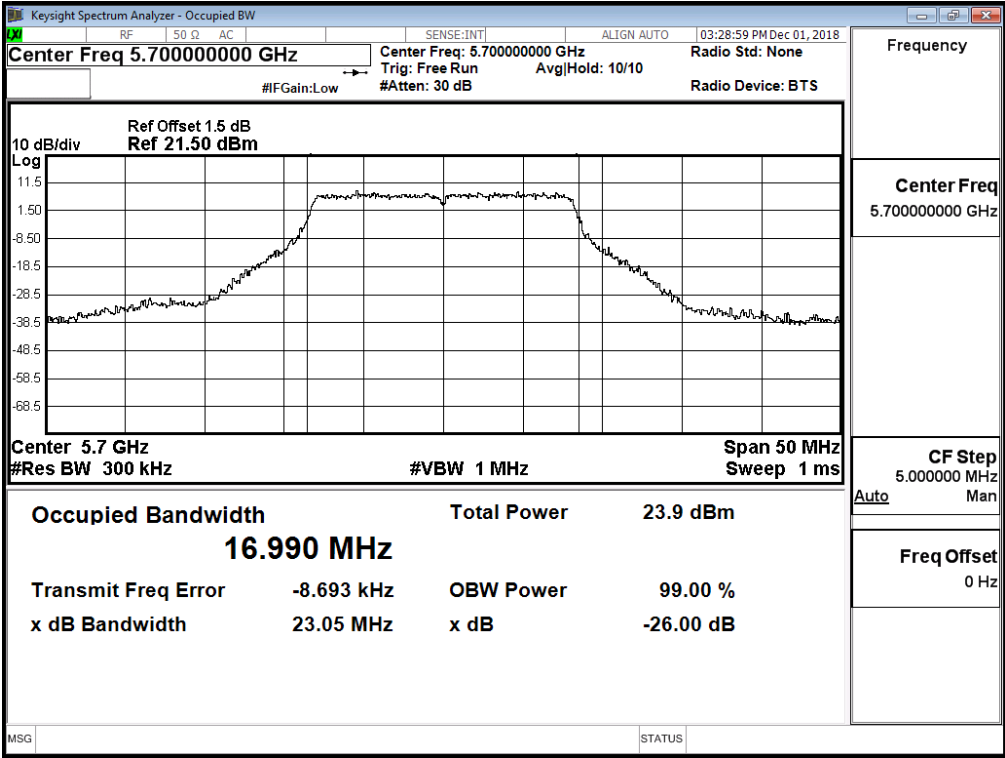
Channel 100:



Channel 120:



Channel 140:



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11n-20BW 7.2Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
		Measurement Level (dBm)								
36	5180	17.78	--	--	--	--	--	--	--	<24dBm
40	5200	21.48	21.42	21.3	21.17	21.03	20.93	20.84	20.75	<24dBm
48	5240	20.71	--	--	--	--	--	--	--	<24dBm
52	5260	20.75	--	--	--	--	--	--	--	<24dBm
56	5280	21.18	21.01	20.86	20.72	20.56	20.41	20.34	20.24	<24dBm
64	5320	16.24	--	--	--	--	--	--	--	<24dBm
100	5500	18.84	--	--	--	--	--	--	--	<24dBm
120	5600	20.79	20.72	20.55	20.43	20.34	20.26	20.19	20.04	<24dBm
140	5700	18.04	--	--	--	--	--	--	--	<24dBm
149	5745	20.83	--	--	--	--	--	--	--	<30dBm
157	5785	20.76	20.67	20.58	20.52	20.37	20.20	20.14	19.97	<30dBm
165	5825	20.92	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

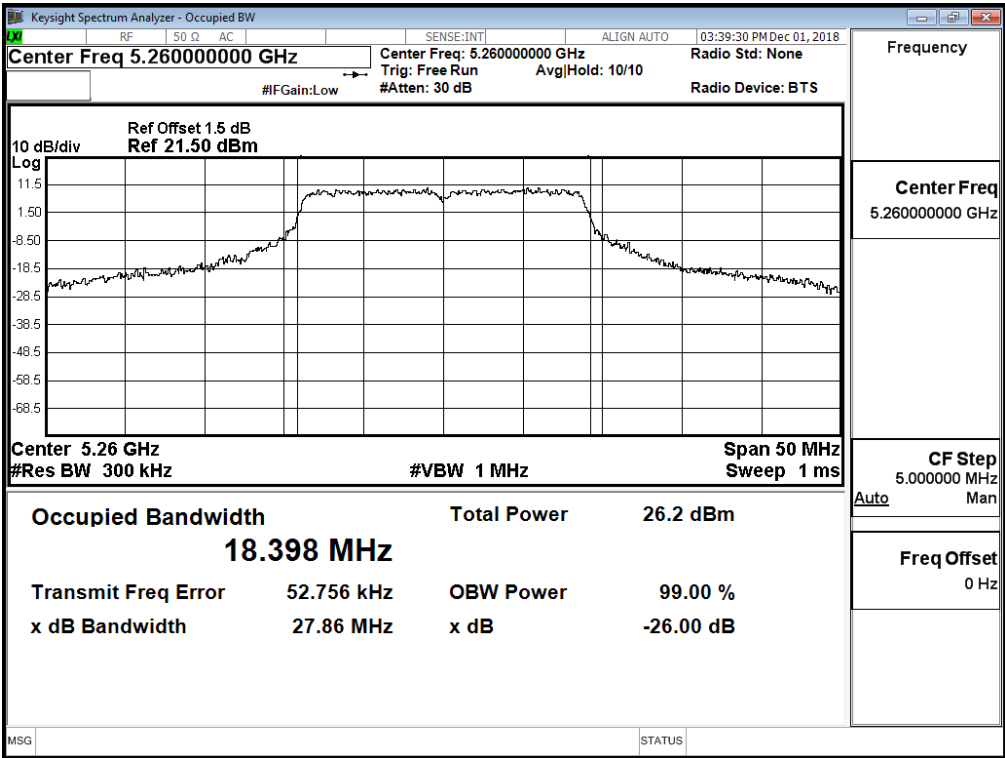
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	--	17.78	24	--
40	5200	--	21.48	24	--
48	5240	--	20.71	24	--
52	5260	18.398	20.75	24	23.65
56	5280	19.185	21.18	24	23.83
64	5320	18.050	16.24	24	23.56
100	5500	18.070	18.84	24	23.57
120	5600	18.477	20.79	24	23.67
140	5700	18.019	18.04	24	23.56
149	5745	--	20.83	30	--
157	5785	--	20.76	30	--
165	5825	--	20.92	30	--

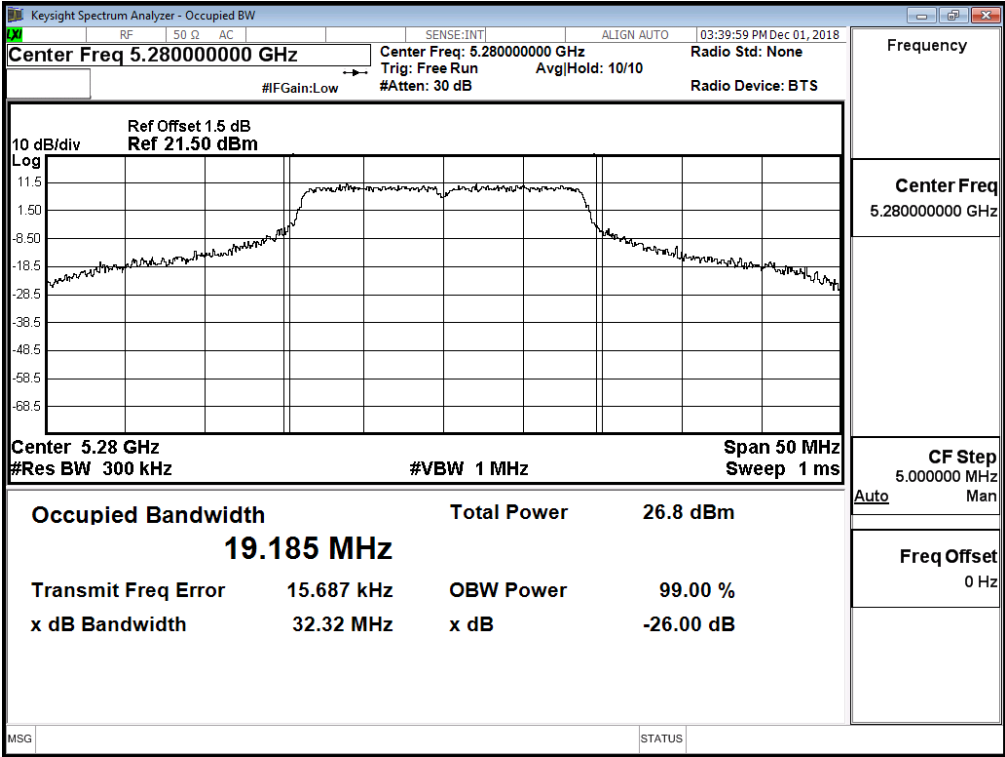
Note: Power Output Value = Reading value on average power meter + cable loss

99% Occupied Bandwidth:

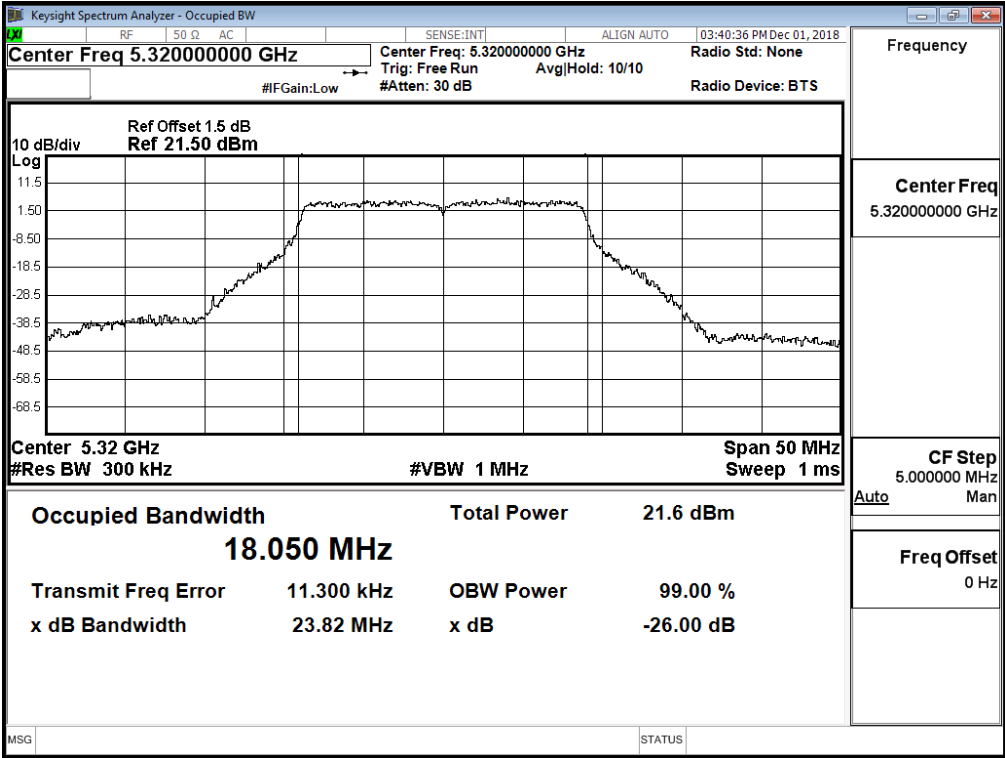
Channel 52:



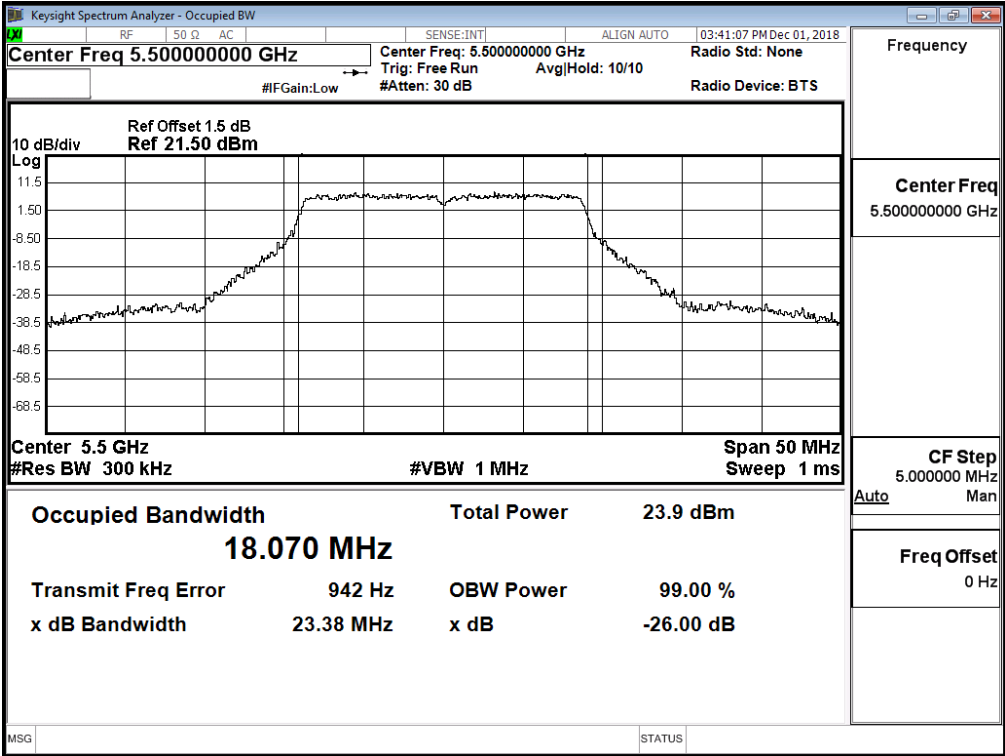
Channel 56:



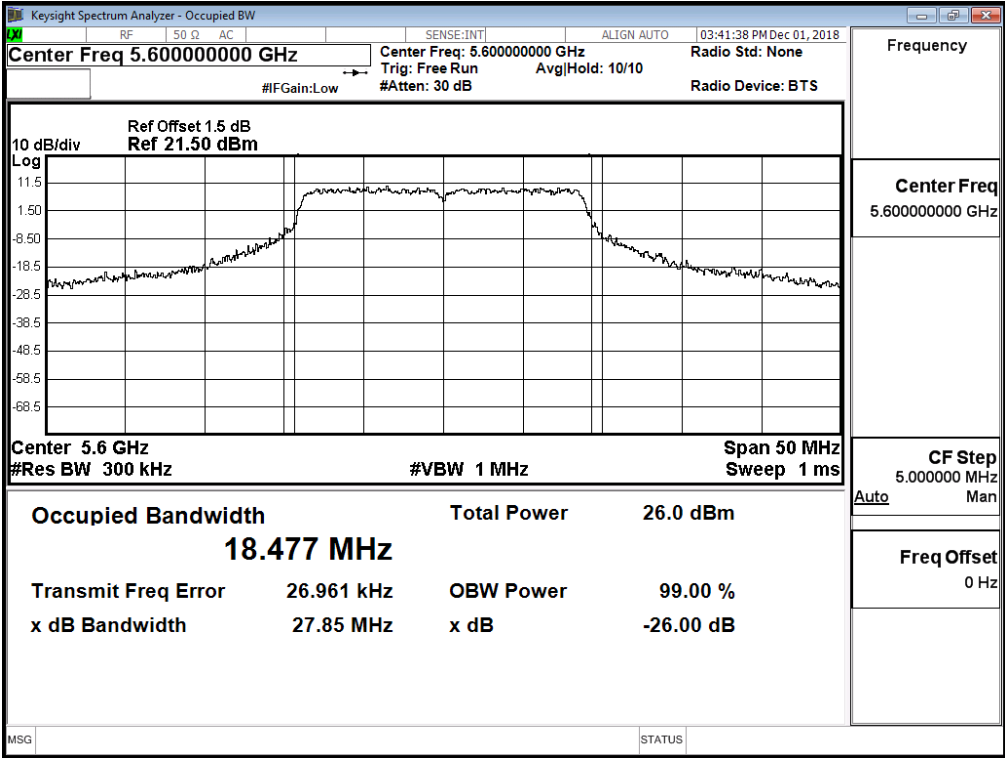
Channel 64:



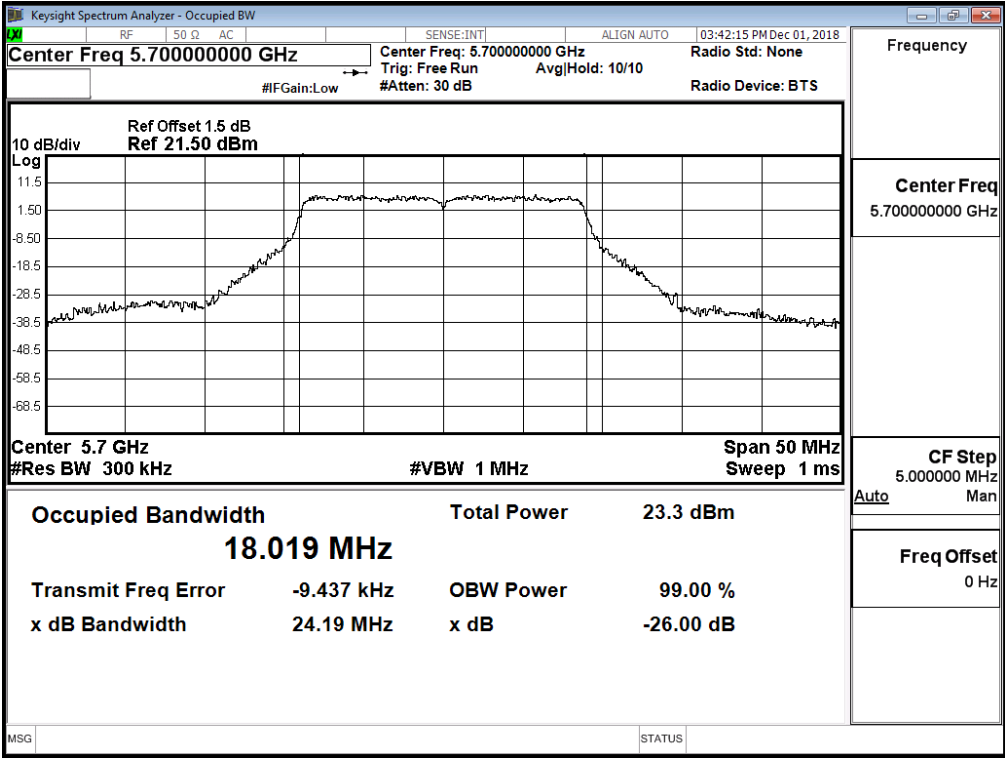
Channel 100:



Channel 120:



Channel 140:



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11n-40BW 15Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	17.95	--	--	--	--	--	--	--	<24dBm
46	5230	19.34	19.19	19.11	19.04	18.87	18.71	18.65	18.48	<24dBm
54	5270	18.62	--	--	--	--	--	--	--	<24dBm
62	5310	14.34	14.18	14.04	13.92	13.76	13.58	13.48	13.38	<24dBm
102	5510	16.96	--	--	--	--	--	--	--	<24dBm
118	5590	21.43	21.26	21.14	21.06	20.95	20.85	20.67	20.56	<24dBm
134	5670	18.65	--	--	--	--	--	--	--	<24dBm
151	5755	19.13	--	--	--	--	--	--	--	<30dBm
159	5795	19.61	19.54	19.48	19.33	19.25	19.08	19.02	18.87	<30dBm

Note: Maximum conducted output power Value = Reading value on average power meter + cable loss

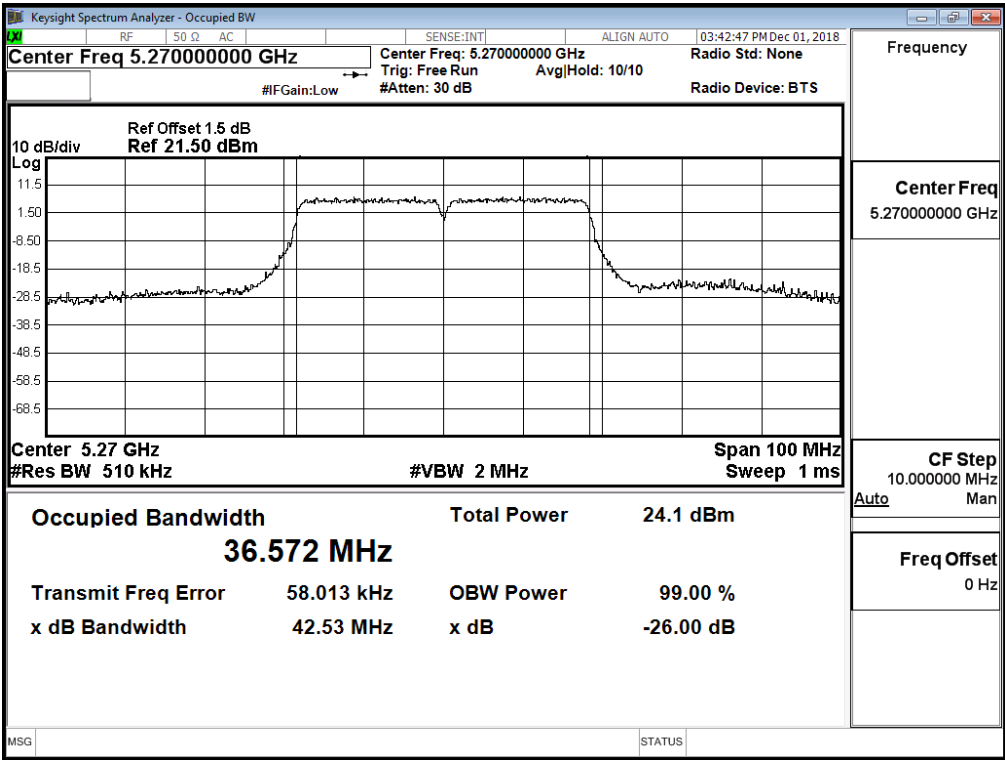
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	--	17.95	24	--
46	5230	--	19.34	24	--
54	5270	36.572	18.62	24	26.63
62	5310	36.484	14.34	24	26.62
102	5510	36.543	16.96	24	26.63
110	5590	38.639	21.43	24	26.87
134	5670	36.551	18.65	24	26.63
151	5755	--	19.13	30	--
159	5795	--	19.61	30	--

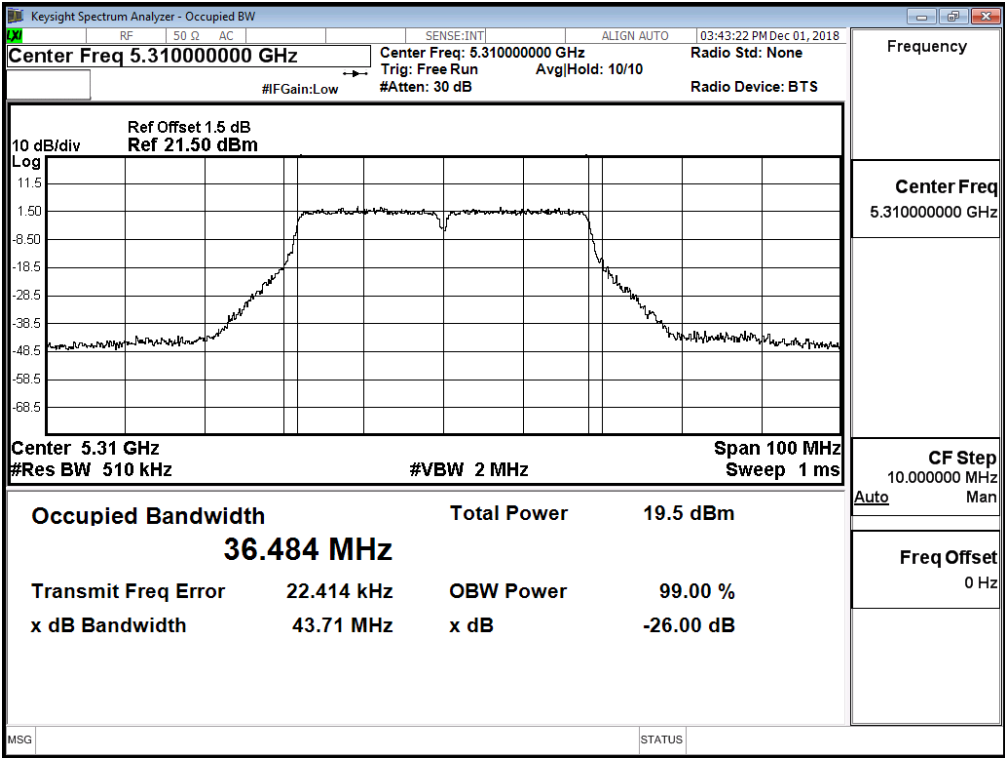
Note: Power Output Value = Reading value on average power meter + cable loss

99% Occupied Bandwidth:

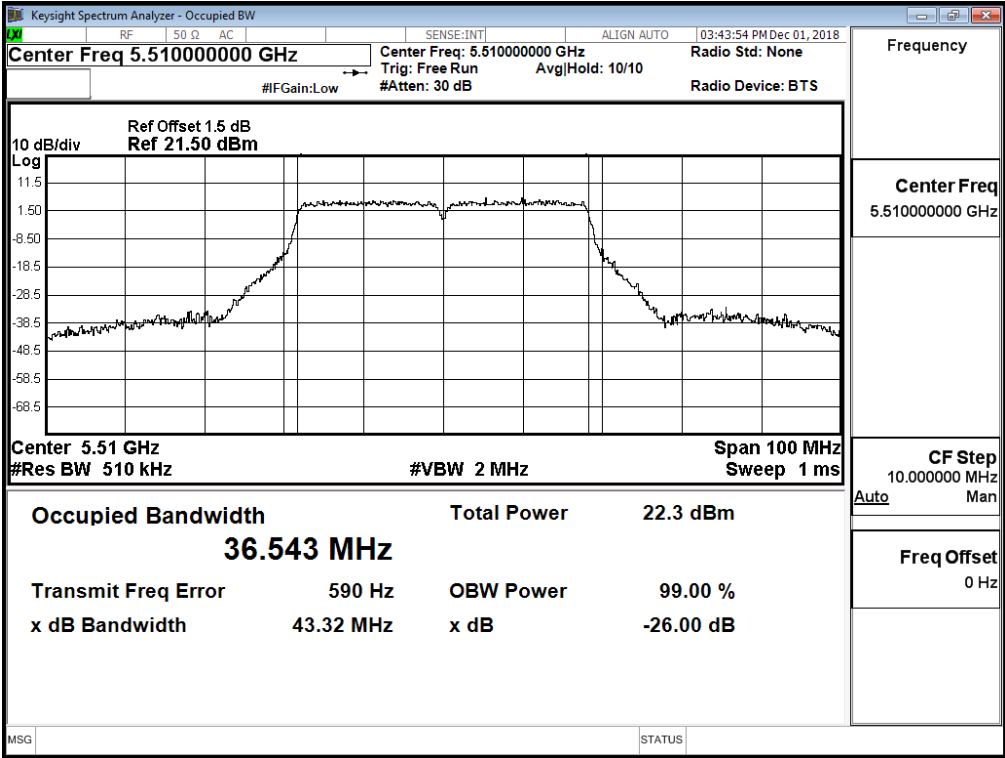
Channel 54



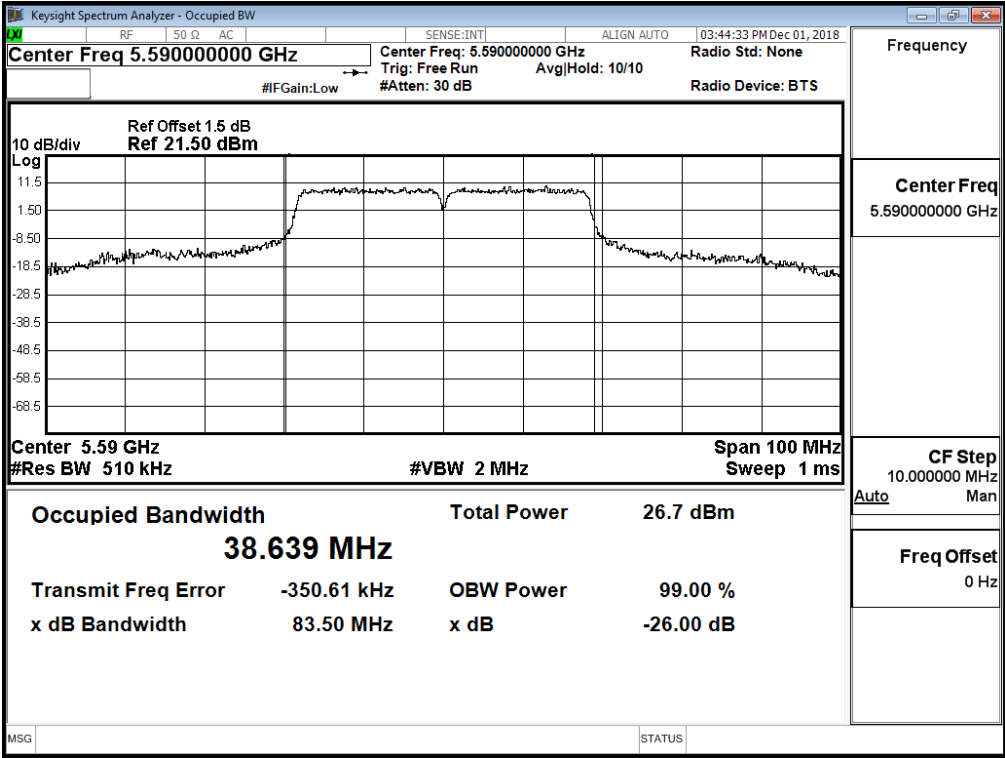
Channel 62



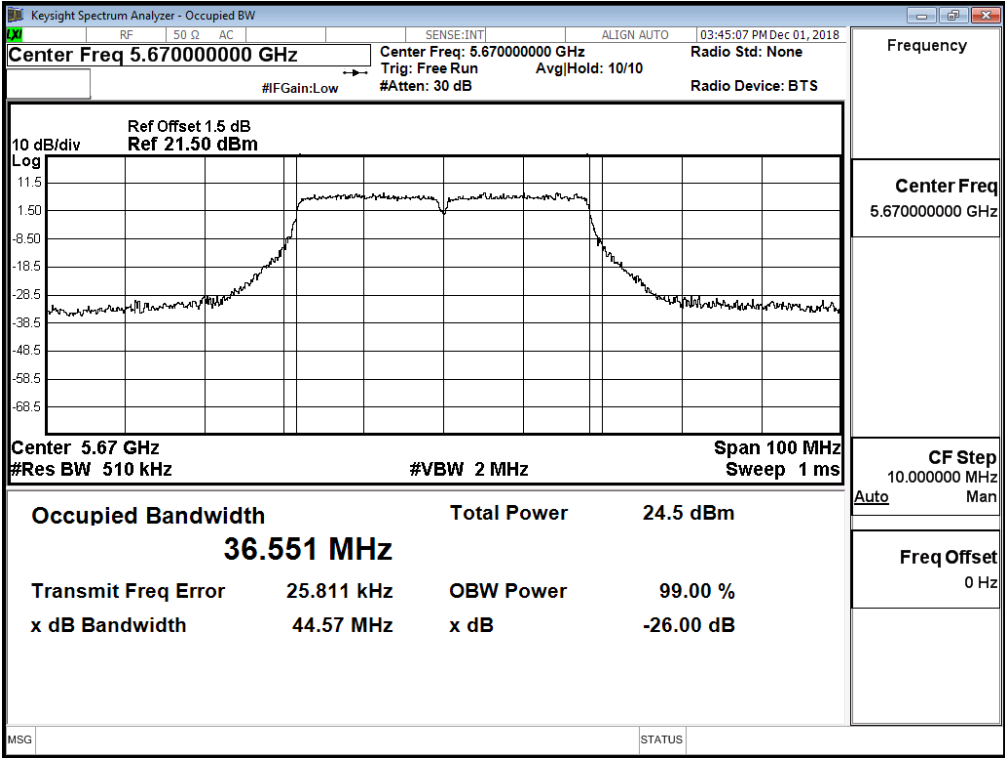
Channel 102



Channel 118



Channel 134



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-20BW-7.2Mbps)

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.57	19.39	19.32	19.17	19.04	18.86	18.80	18.65	18.56	<24dBm
144 (Band4)	5720	14.2	14.05	13.87	13.71	13.54	13.48	13.42	13.30	13.12	<30dBm

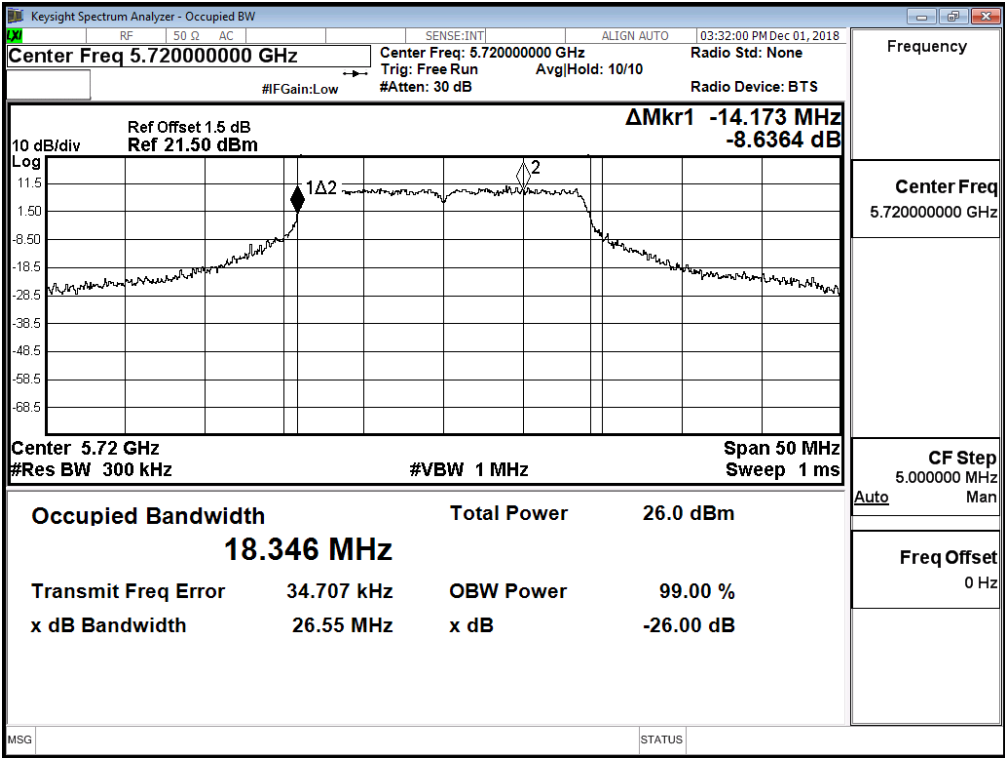
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

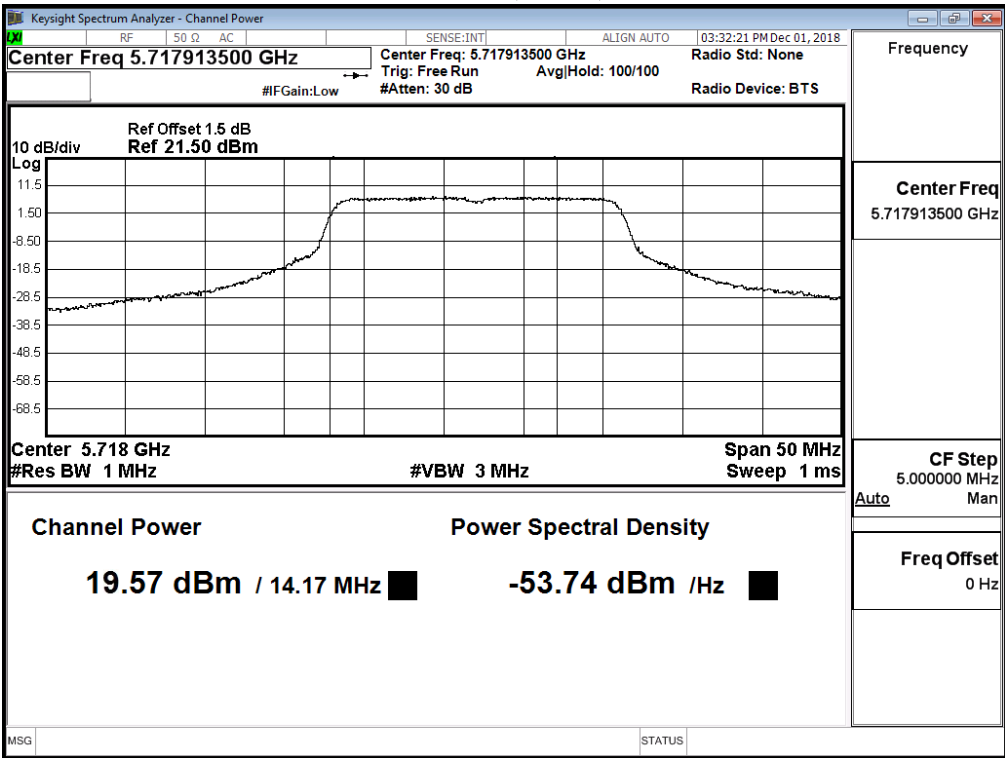
Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.173	19.57	19.57	24	22.51	Pass
144(Band4)	5720	--	14.20	14.20	30	--	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

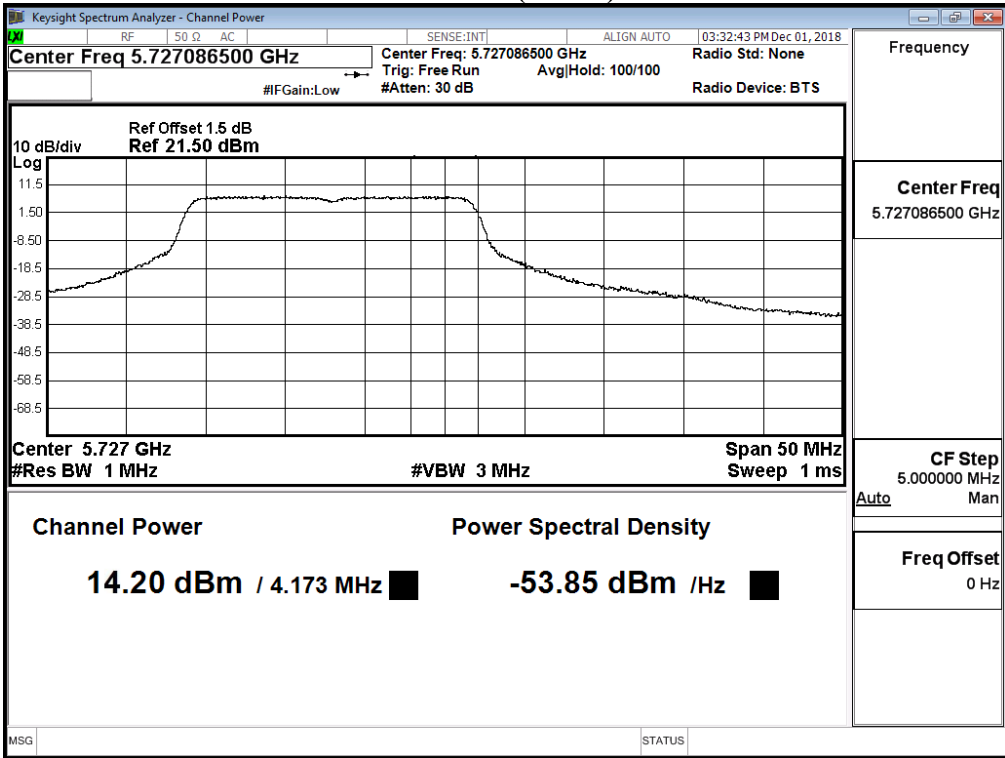
99% Occupied Bandwidth:
Channel 144



Maximum conducted output power:
Channel 144 (Band3)



Channel 144 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-40BW-15Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.48	19.38	19.26	19.13	18.95	18.89	18.80	18.68	18.57	18.44	<24dBm
142F(Band4)	5710	9.61	9.55	9.47	9.41	9.35	9.27	9.13	9.07	9.00	8.87	<30dBm

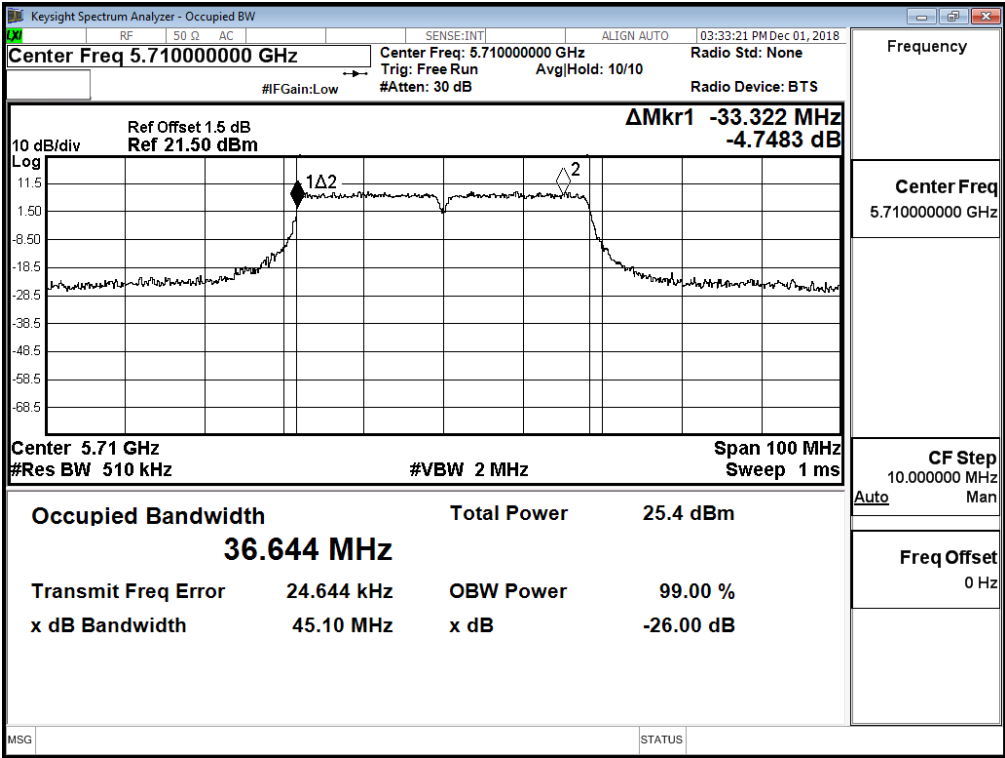
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

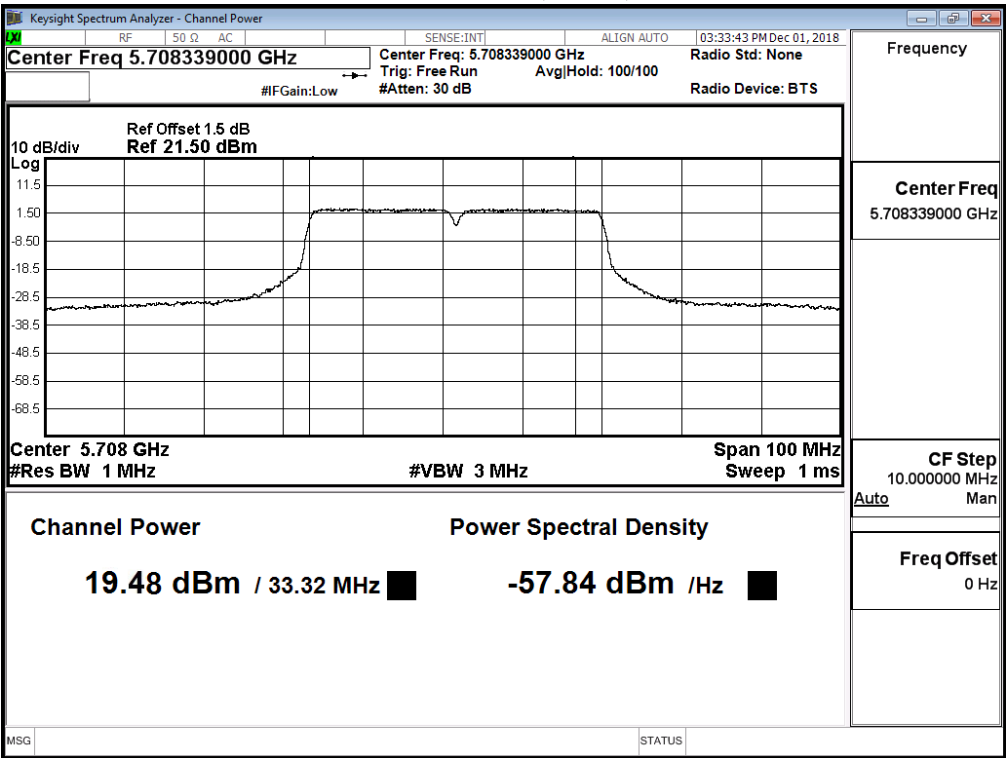
Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.322	19.48	19.48	24	26.23	Pass
142F(Band4)	5710	--	9.61	9.61	30	--	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

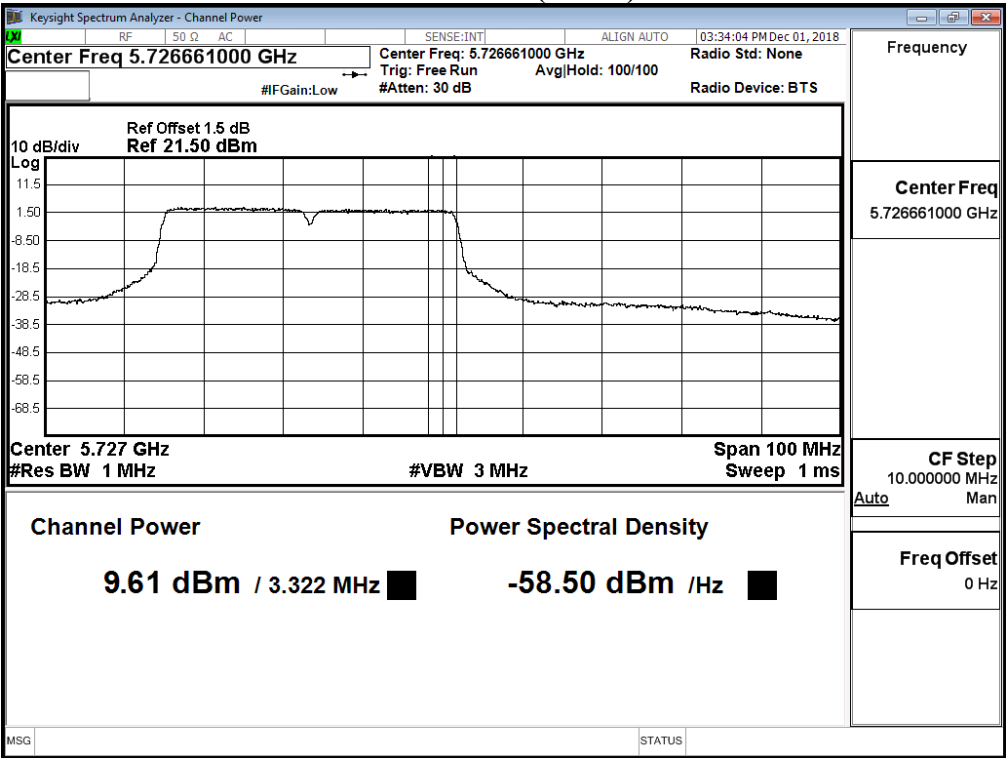
99% Occupied Bandwidth:
Channel 142



Maximum conducted output power:
Channel 142 (Band3)



Channel 142 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-80BW-32.5Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.68	17.59	17.5	17.34	17.21	17.13	17.07	16.92	16.78	16.69	<24dBm
58	5290	15.24	15.12	14.98	14.84	14.77	14.64	14.49	14.39	14.30	14.22	<24dBm
106	5530	17.12	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	20.18	20.07	19.99	19.88	19.73	19.61	19.55	19.38	19.29	19.17	<24dBm
138(Band3)	5690	19.88	19.73	19.66	19.5	19.42	19.31	19.16	19	18.94	18.81	<24dBm
138(Band4)	5690	3.73	3.65	3.55	3.39	3.25	3.17	3.11	3.05	2.99	2.88	<30dBm
155	5775	18.67	18.54	18.37	18.20	18.03	17.87	17.78	17.70	17.64	17.54	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

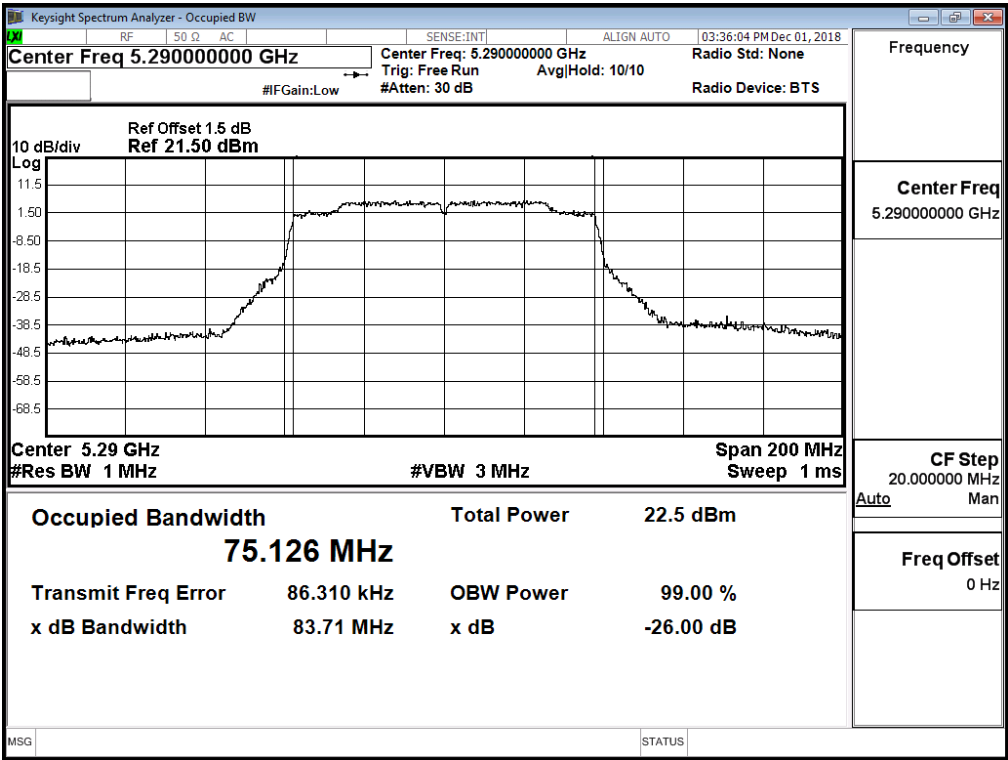
Maximum conducted output power Measurement:

Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	--	17.68	17.68	24	--	Pass
58	5290	75.126	15.24	15.24	24	29.76	Pass
106	5530	75.161	17.12	17.12	24	29.76	Pass
122	5610	75.544	20.18	20.18	24	29.78	Pass
138(Band3)	5690	72.742	19.88	19.88	24	29.62	Pass
138(Band4)	5690	--	3.73	3.73	30	--	Pass
155	5775	--	18.67	18.67	30	--	Pass

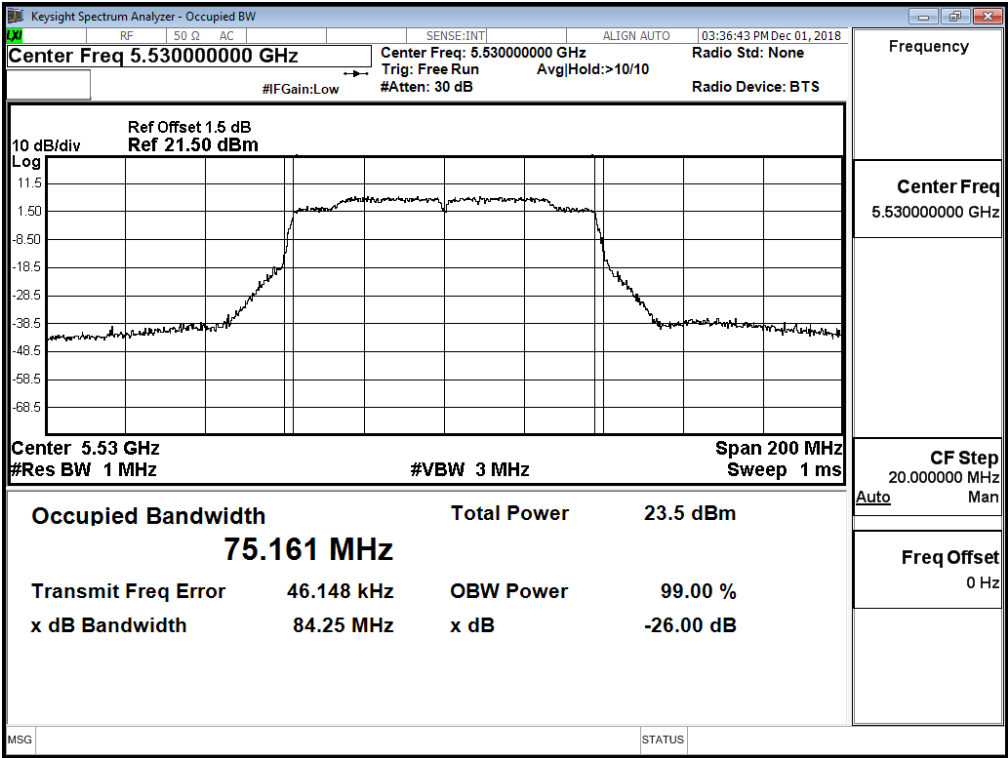
Note: Power Output Value =Reading value on average power meter + cable loss

99% Occupied Bandwidth:

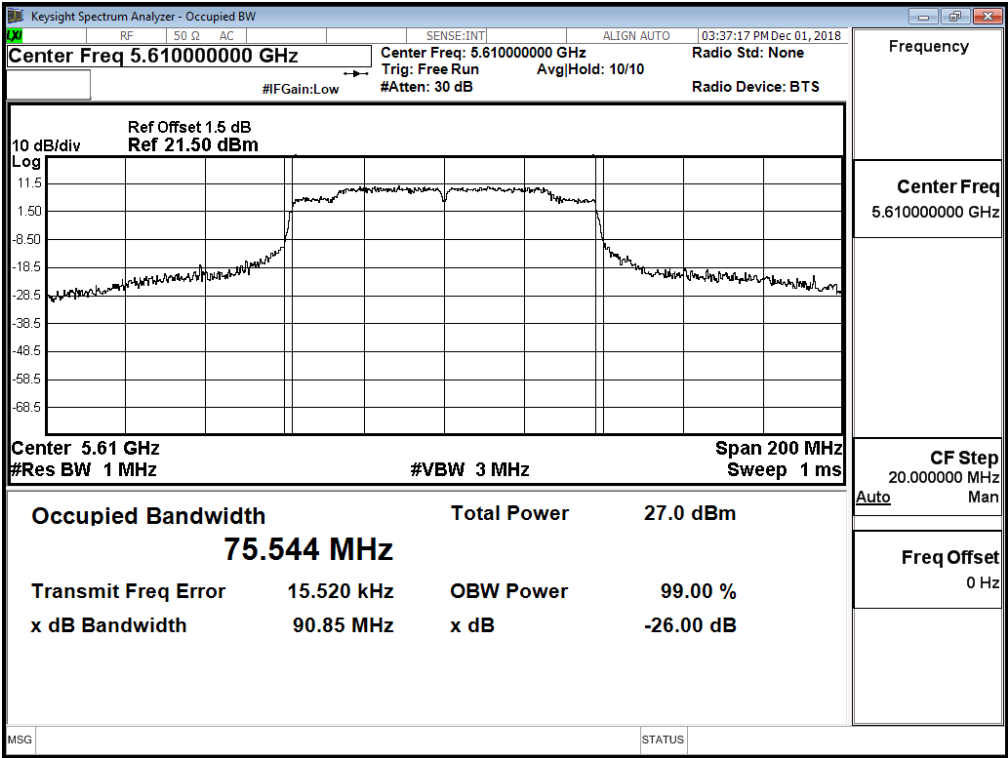
Channel 58



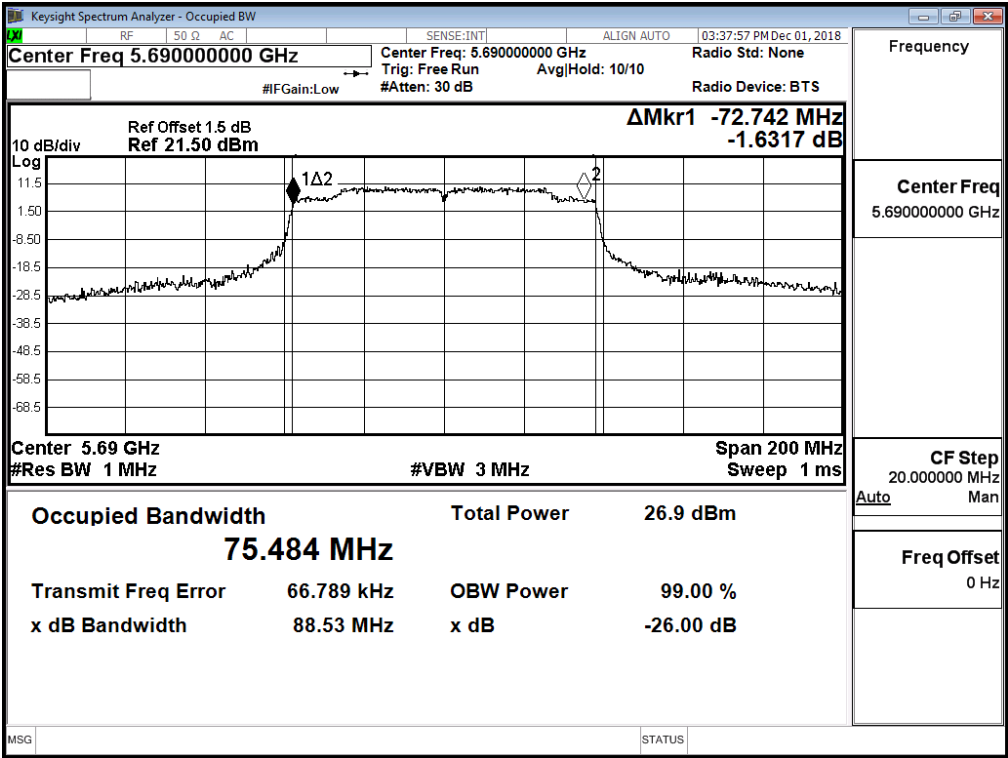
Channel 106



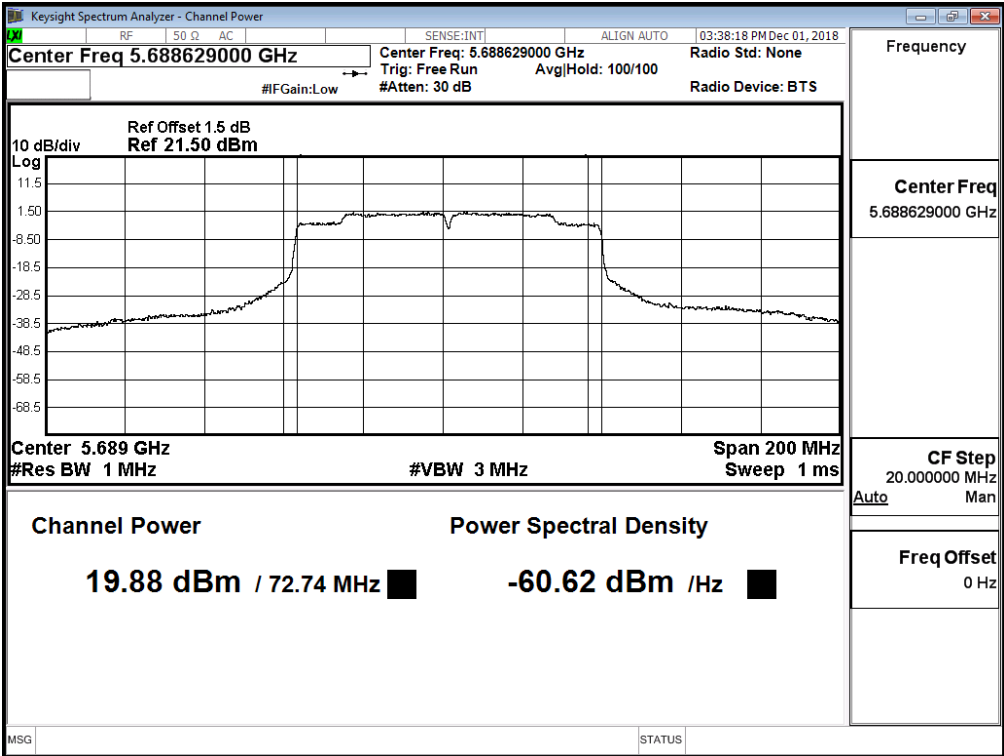
Channel 122



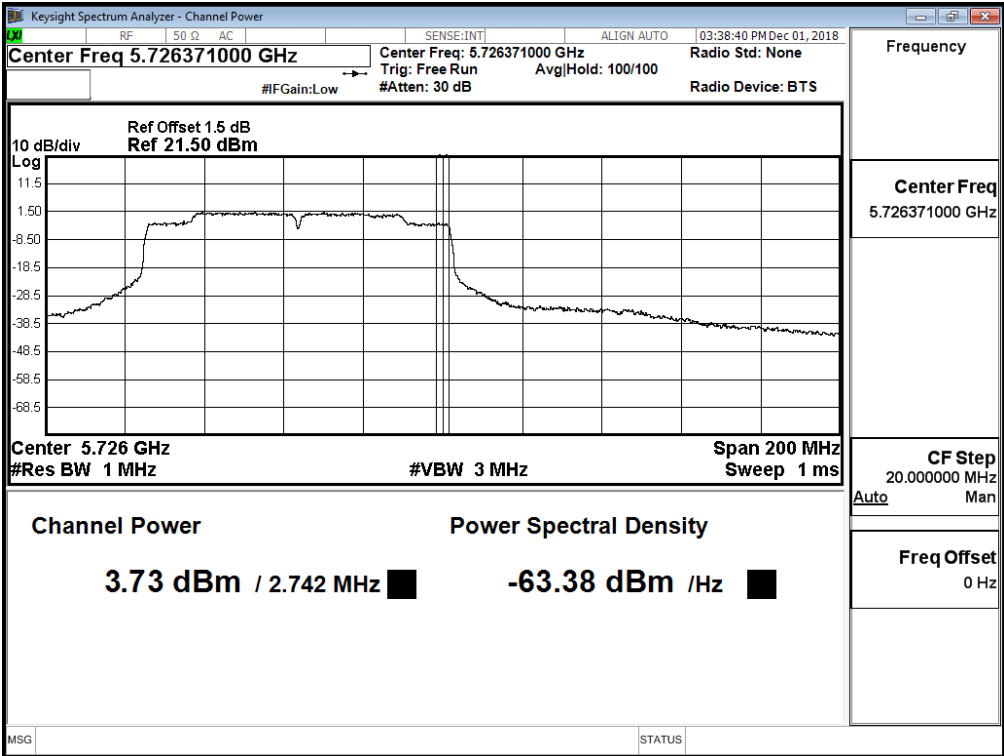
Channel 138



Maximum conducted output power:
Channel 138 (Band3)



Maximum conducted output power:
Channel 138 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 1 SISO A: Transmit (802.11ac-160BW_65Mbps)

Cable loss=1.5dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
50(U-NII-1)	5250	10.14	9.97	9.81	9.7	9.64	9.56	9.46	9.32	9.24	9.06	<24dBm
50(U-NII-2A)	5250	10.1	10	9.86	9.77	9.66	9.51	9.39	9.23	9.17	9.05	<24dBm
114	5570	14.27	14.11	14.04	13.91	13.79	13.62	13.49	13.43	13.27	13.15	<24dBm

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

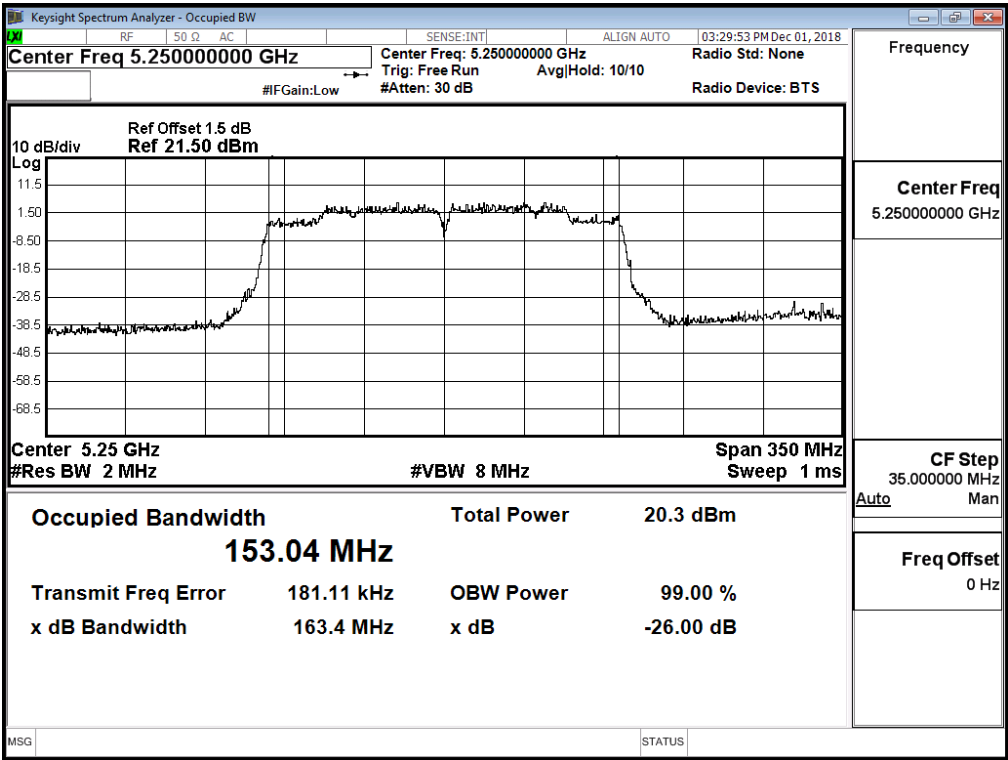
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
50(U-NII-1)	5250	--	10.14	24	--	Pass
50(U-NII-2A)	5250	76.250	10.10	24	29.82	Pass
114	5570	153.380	14.27	24	32.86	Pass

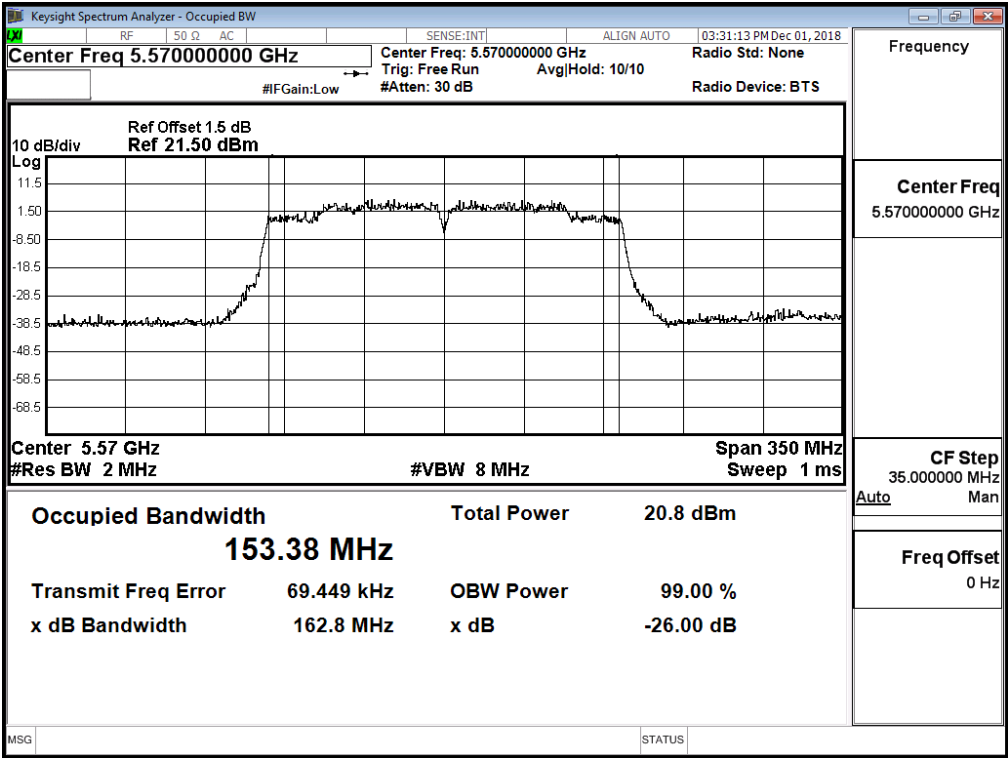
Note: Power Output Value =Reading value on average power meter + cable loss

99% Occupied Bandwidth:

Channel 50

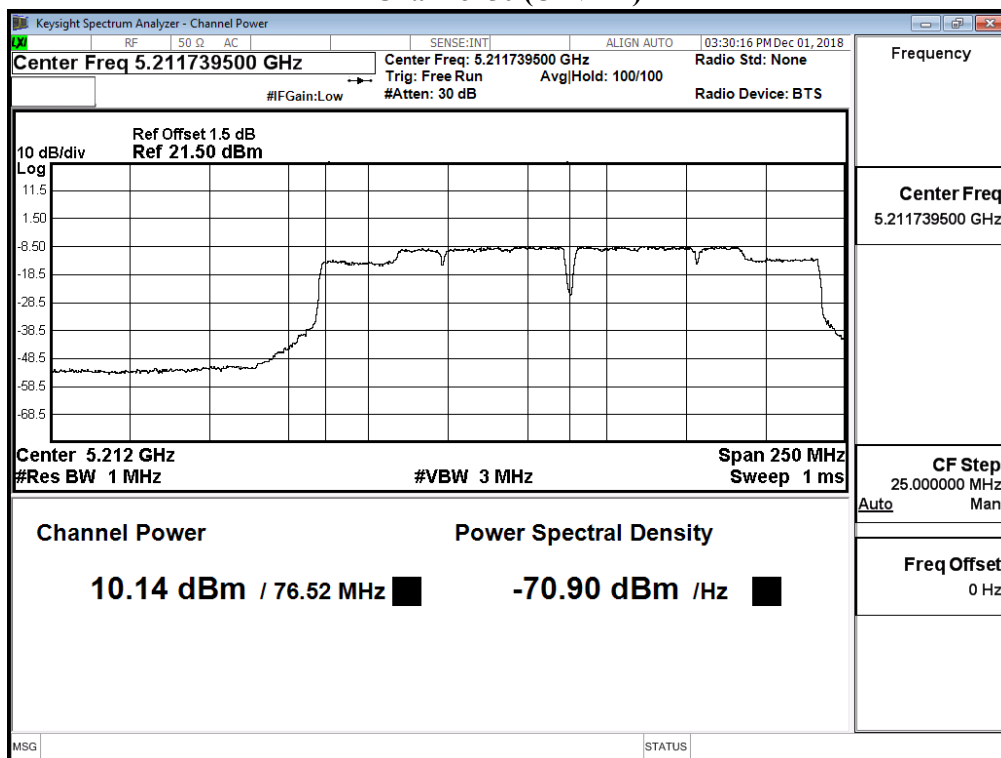


Channel 114



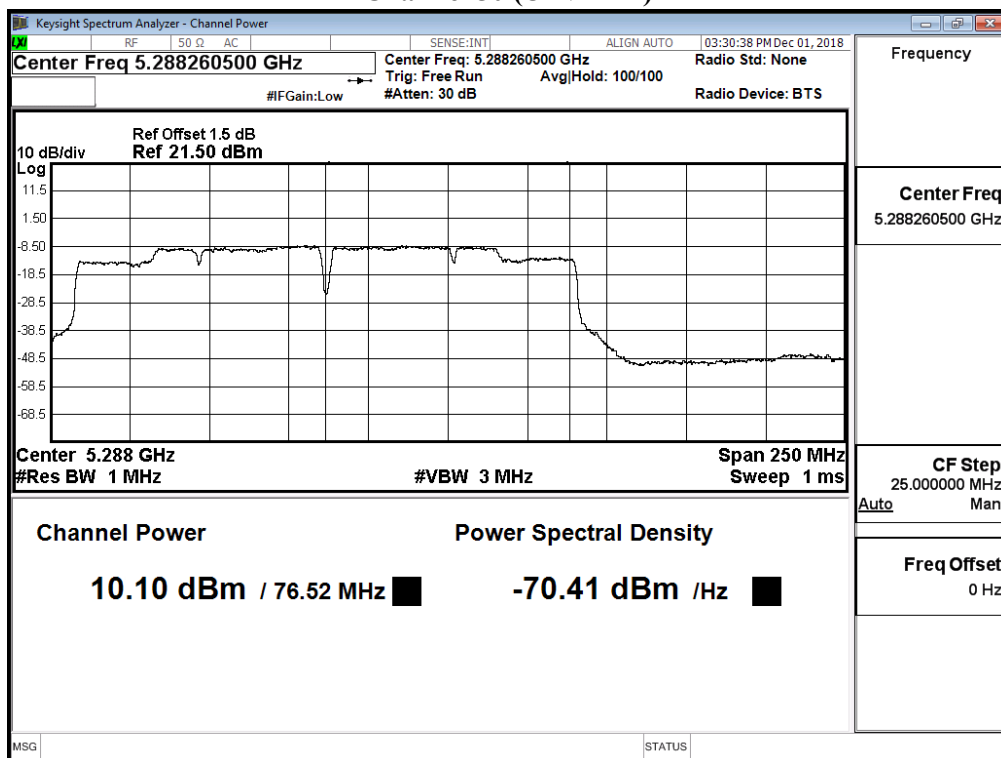
Maximum conducted output power:

Channel 50 (U-NII-1)



Maximum conducted output power:

Channel 50 (U-NII-2A)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11a-6Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		6	9	12	18	24	36	48	54	
		Measurement Level (dBm)								
36	5180	18.42	--	--	--	--	--	--	--	<24dBm
40	5200	21.22	21.04	20.96	20.88	20.79	20.72	20.61	20.52	<24dBm
48	5240	20.67	--	--	--	--	--	--	--	<24dBm
52	5260	21.02	--	--	--	--	--	--	--	<24dBm
56	5280	21.41	21.24	21.15	21.04	20.89	20.73	20.62	20.50	<24dBm
64	5320	16.77	--	--	--	--	--	--	--	<24dBm
100	5500	19.06	--	--	--	--	--	--	--	<24dBm
120	5600	20.85	20.79	20.65	20.56	20.38	20.29	20.23	20.07	<24dBm
140	5700	18.36	--	--	--	--	--	--	--	<24dBm
149	5745	21.06	--	--	--	--	--	--	--	<30dBm
157	5785	21.13	21.02	20.87	20.76	20.63	20.47	20.36	20.19	<30dBm
165	5825	21.05	--	--	--	--	--	--	--	<30dBm

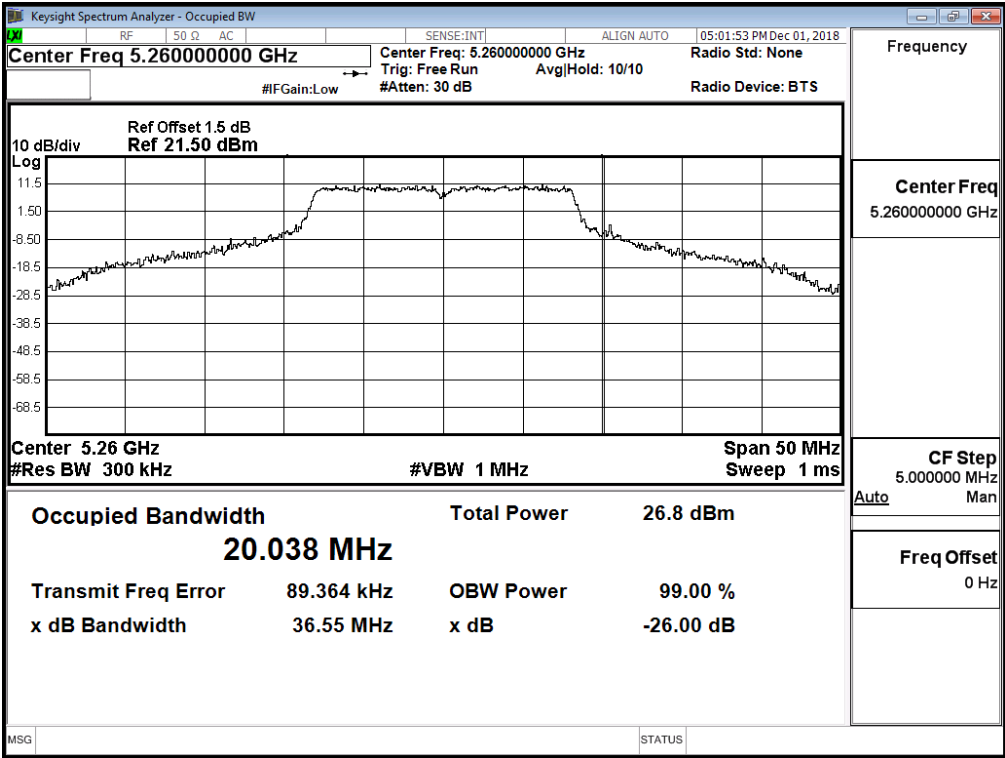
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

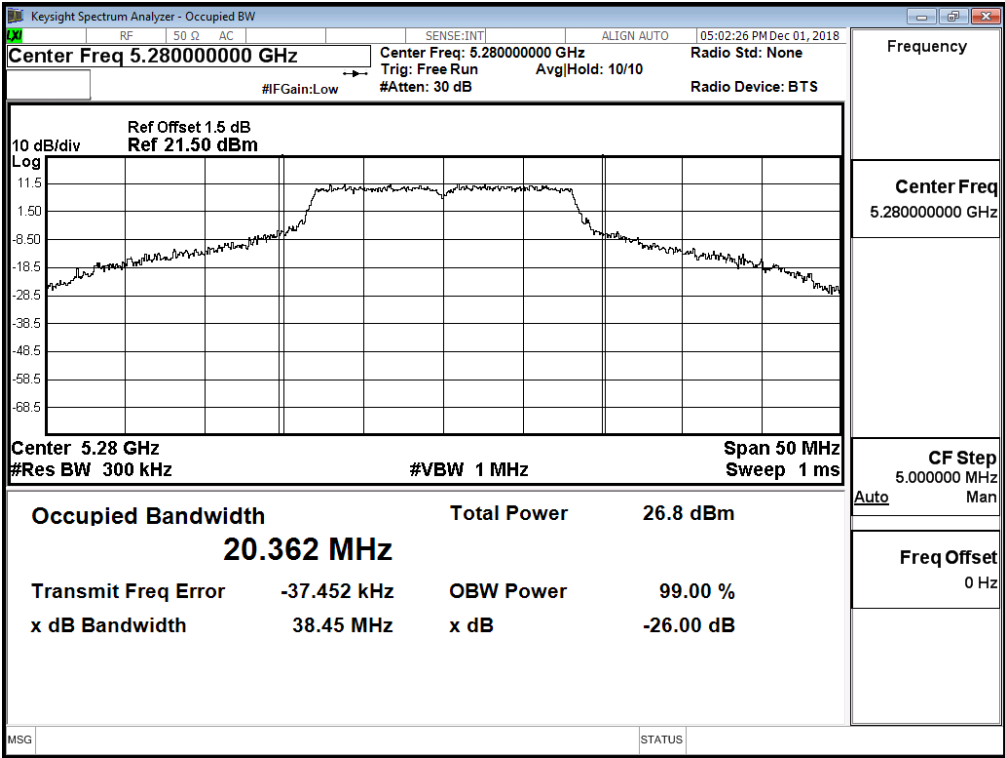
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	--	18.42	24	--
40	5200	--	21.22	24	--
48	5240	--	20.67	24	--
52	5260	20.038	21.02	24	24.02
56	5280	20.362	21.41	24	24.09
64	5320	16.941	16.77	24	23.29
100	5500	16.968	19.06	24	23.30
120	5600	17.282	20.85	24	23.38
140	5700	16.903	18.36	24	23.28
149	5745	--	21.06	30	--
157	5785	--	21.13	30	--
165	5825	--	21.05	30	--

Note: Power Output Value = Reading value on average power meter + cable loss.

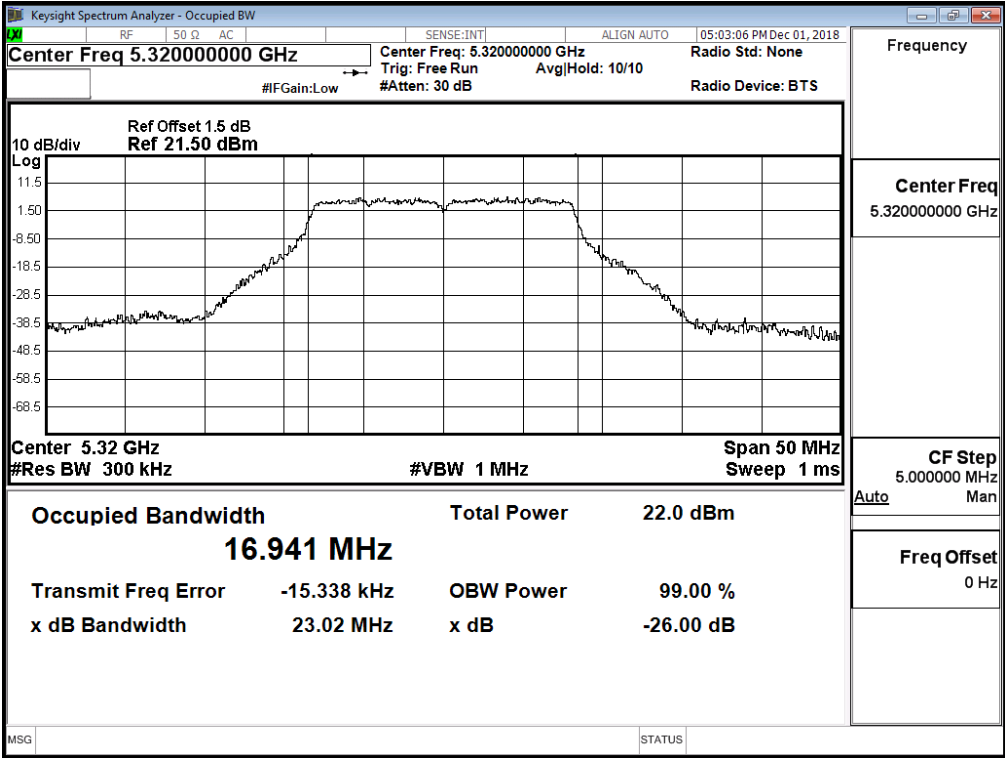
99% Occupied Bandwidth:
Channel 52:



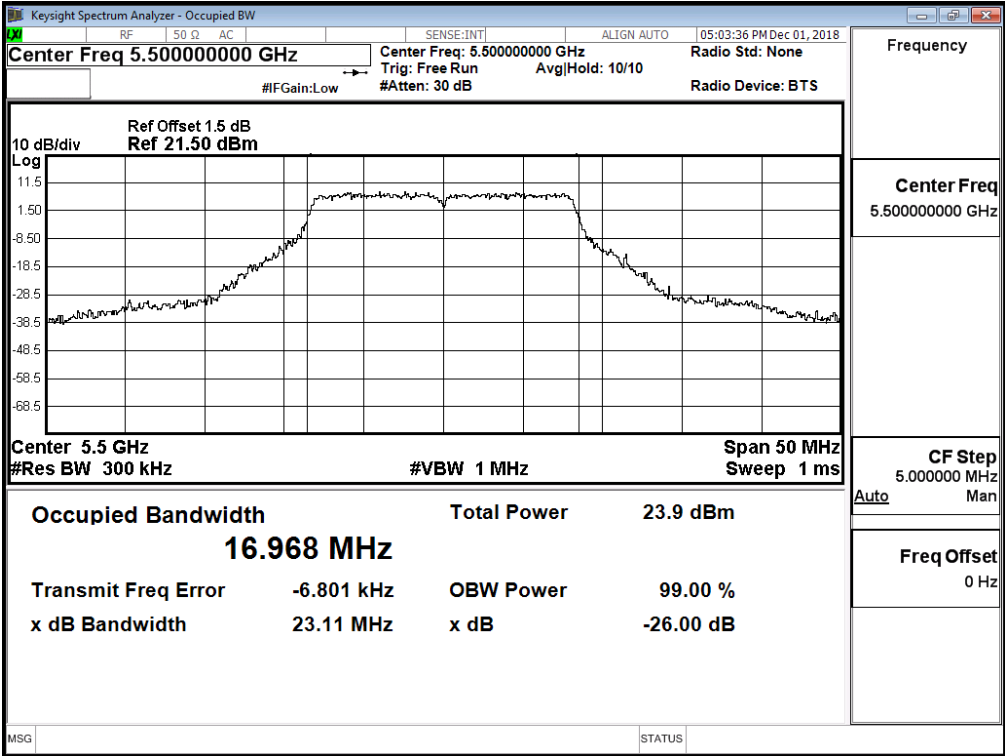
Channel 56:



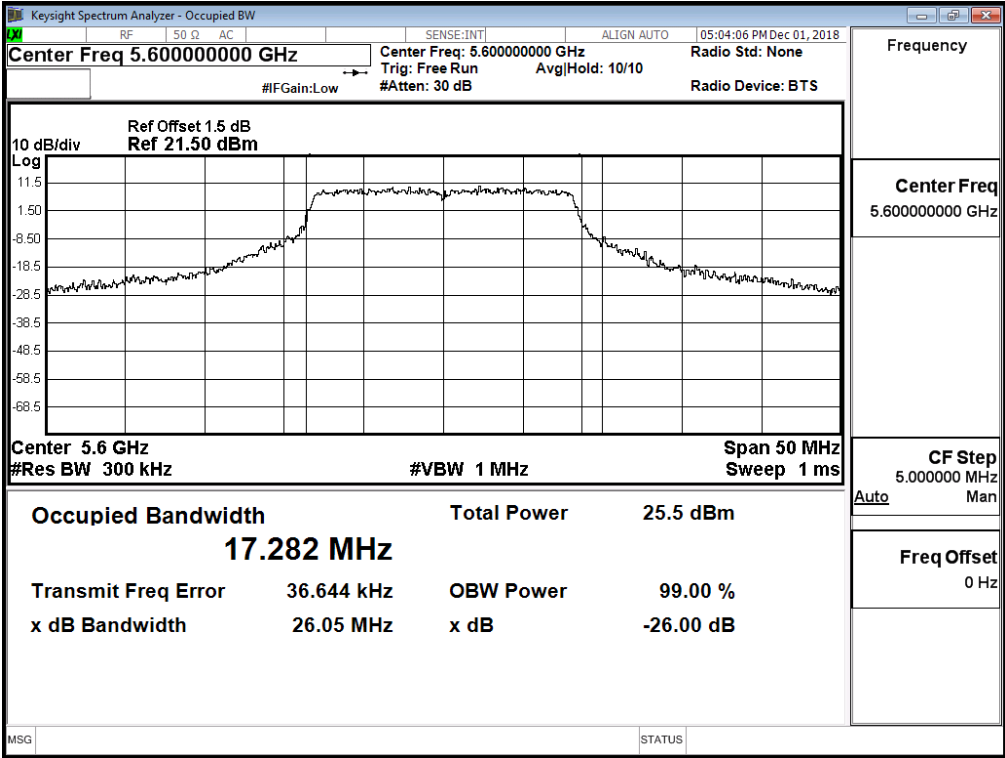
Channel 64:



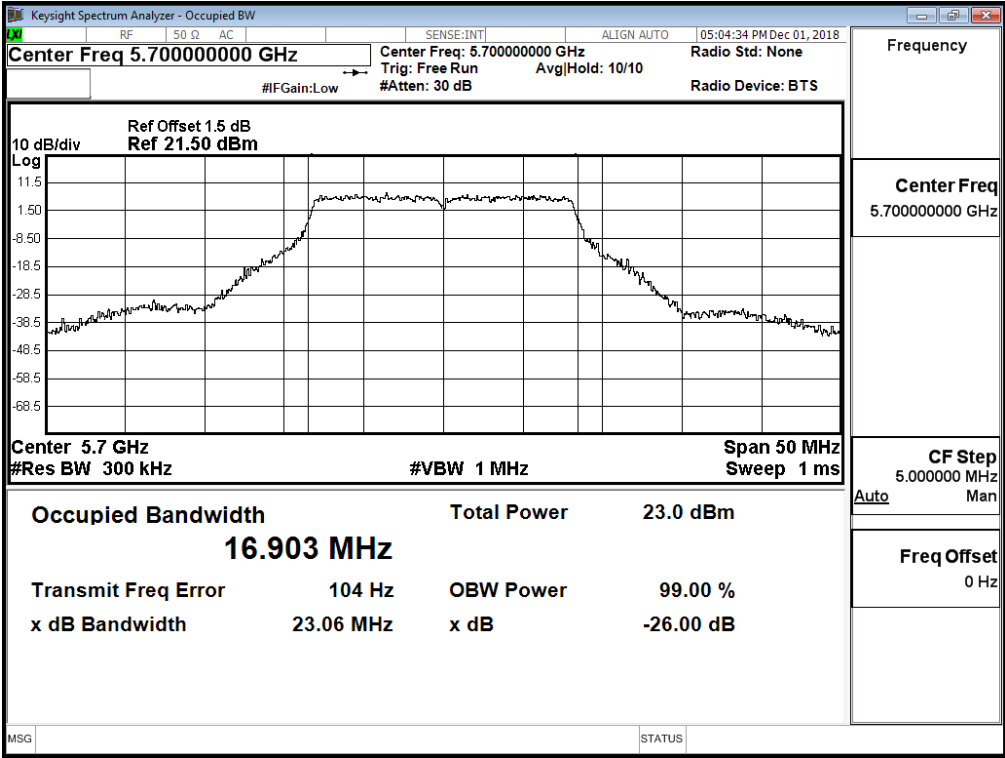
Channel 100:



Channel 120:



Channel 140:



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11n-20BW 7.2Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	
		Measurement Level (dBm)								
36	5180	18.3	--	--	--	--	--	--	--	<24dBm
40	5200	21.05	20.88	20.76	20.70	20.64	20.51	20.35	20.17	<24dBm
48	5240	20.43	--	--	--	--	--	--	--	<24dBm
52	5260	21.26	--	--	--	--	--	--	--	<24dBm
56	5280	21.41	21.25	21.15	21.00	20.89	20.81	20.67	20.56	<24dBm
64	5320	16.59	--	--	--	--	--	--	--	<24dBm
100	5500	18.98	--	--	--	--	--	--	--	<24dBm
120	5600	21.16	21.09	20.98	20.87	20.71	20.64	20.48	20.42	<24dBm
140	5700	18.63	--	--	--	--	--	--	--	<24dBm
149	5745	21.06	--	--	--	--	--	--	--	<30dBm
157	5785	21.13	21.03	20.93	20.80	20.71	20.63	20.50	20.38	<30dBm
165	5825	20.93	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value = Reading value on average power meter + cable loss

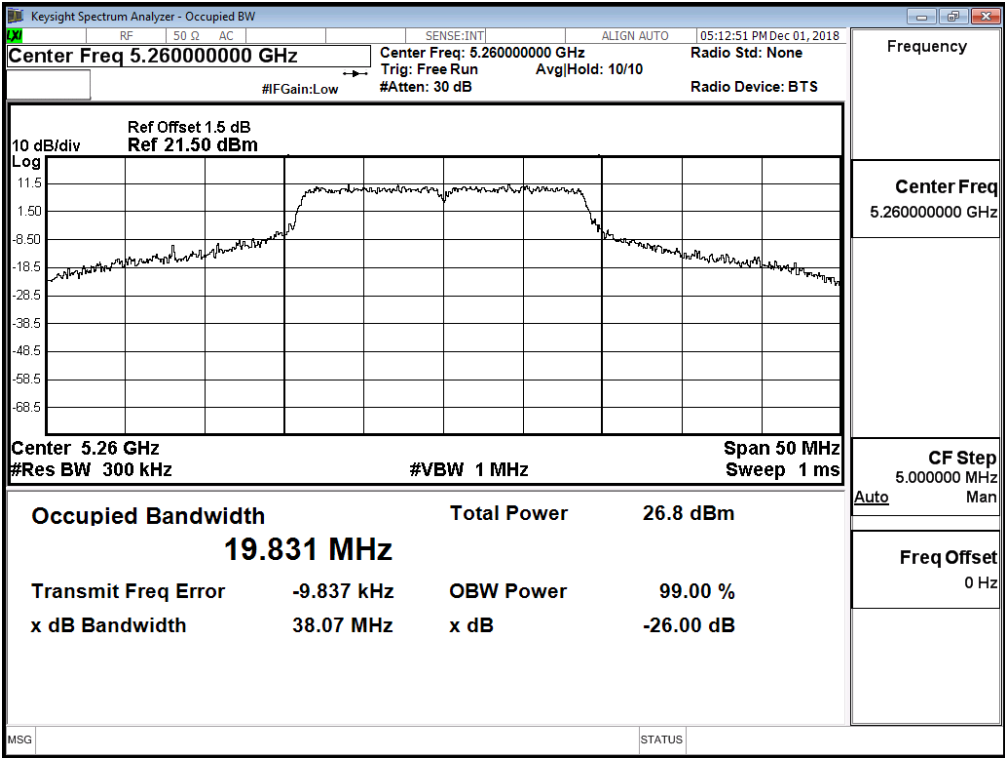
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	--	18.3	24	--
40	5200	--	21.05	24	--
48	5240	--	20.43	24	--
52	5260	19.831	21.26	24	23.97
56	5280	19.800	21.41	24	23.97
64	5320	17.986	16.59	24	23.55
100	5500	18.028	18.98	24	23.56
120	5600	18.269	21.16	24	23.62
140	5700	18.076	18.63	24	23.57
149	5745	--	21.06	30	--
157	5785	--	21.13	30	--
165	5825	--	20.93	30	--

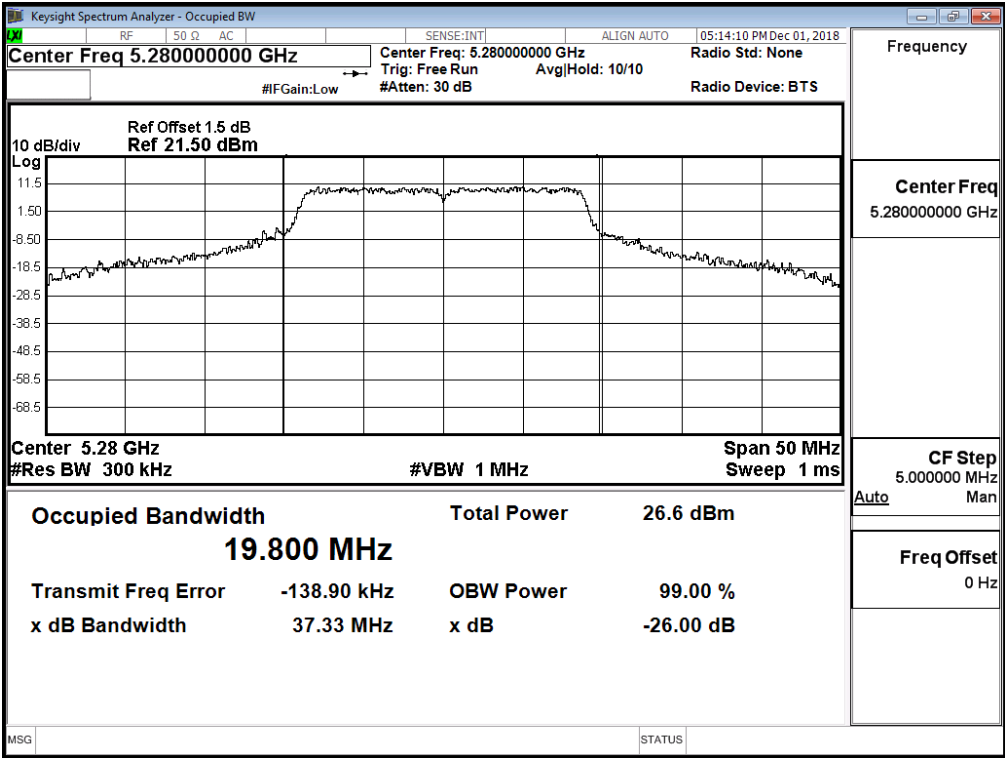
Note: Power Output Value = Reading value on average power meter + cable loss

99% Occupied Bandwidth:

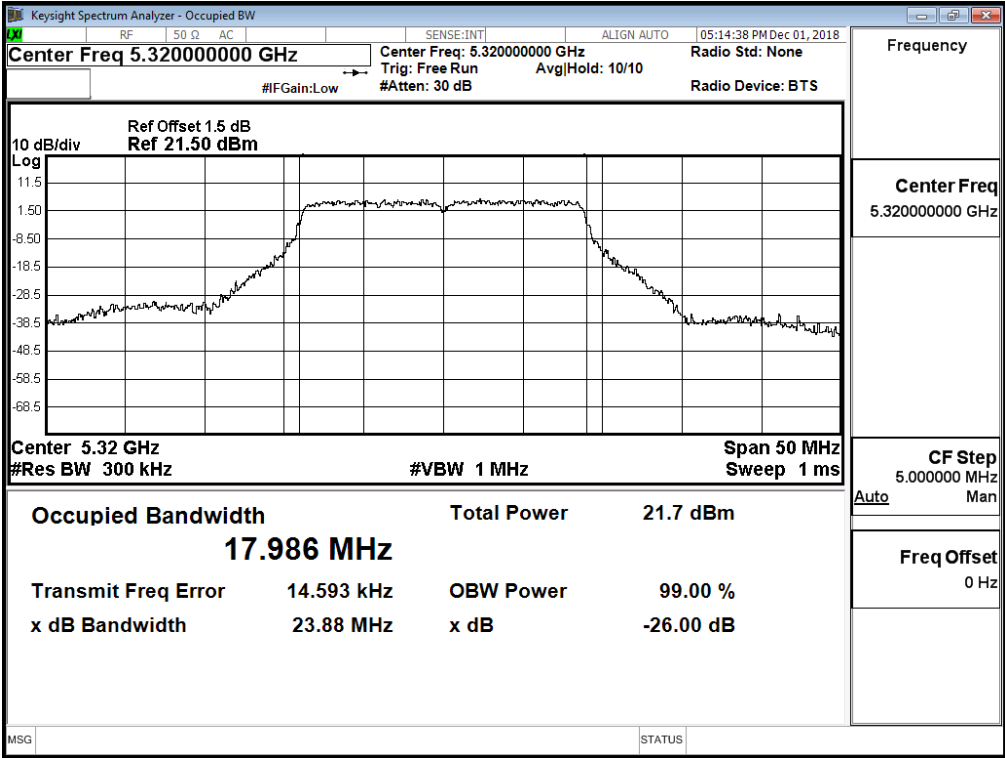
Channel 52:



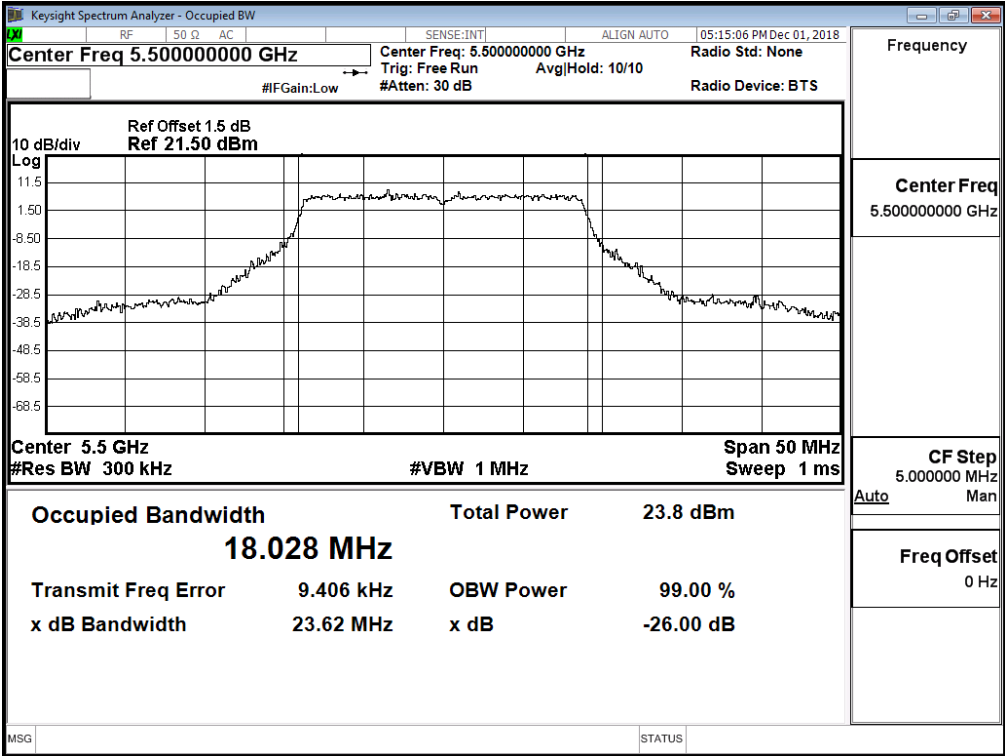
Channel 56:



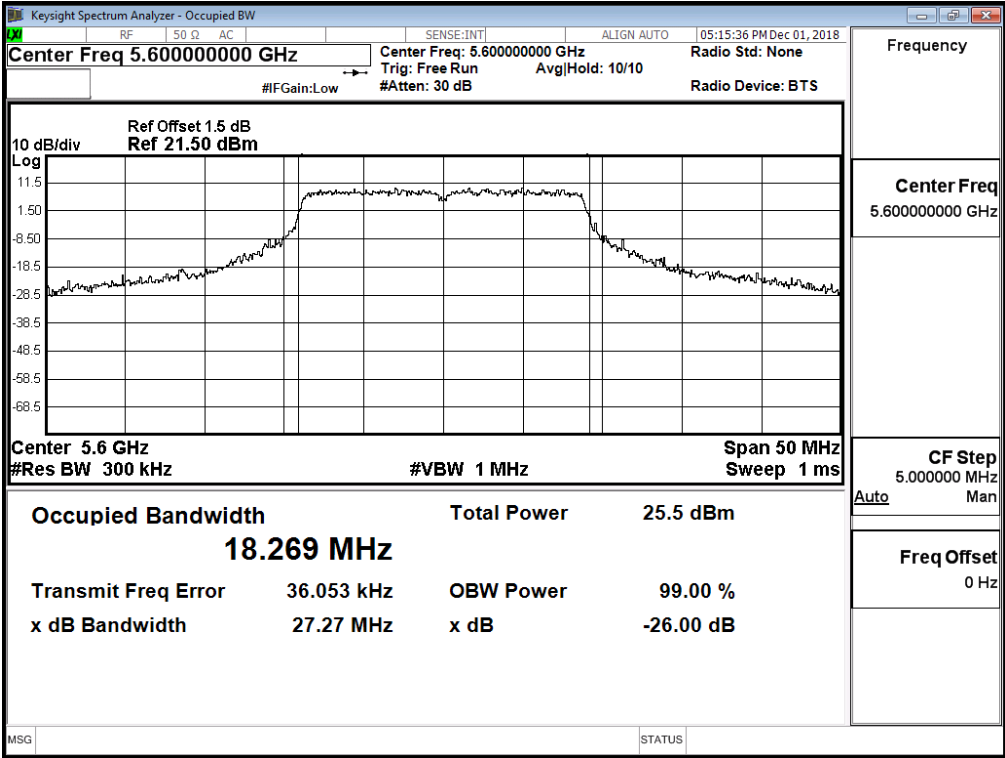
Channel 64:



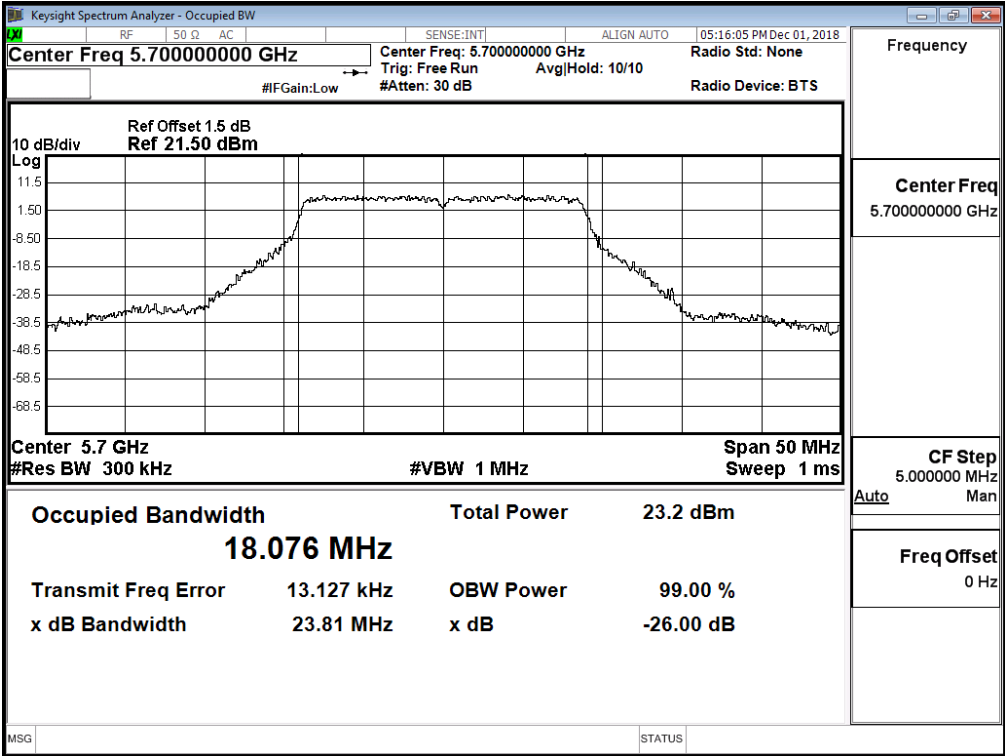
Channel 100:



Channel 120:



Channel 140:



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11n-40BW 15Mbps)

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		15	30	45	60	90	120	135	150	
		Measurement Level (dBm)								
38	5190	17.79	--	--	--	--	--	--	--	<24dBm
46	5230	19.13	18.98	18.83	18.69	18.55	18.49	18.36	18.25	<24dBm
54	5270	18.51	--	--	--	--	--	--	--	<24dBm
62	5310	14.34	14.18	14.07	13.93	13.83	13.72	13.66	13.52	<24dBm
102	5510	16.32	--	--	--	--	--	--	--	<24dBm
118	5590	21.13	20.96	20.84	20.74	20.62	20.49	20.35	20.19	<24dBm
134	5670	19.36	--	--	--	--	--	--	--	<24dBm
151	5755	18.51	--	--	--	--	--	--	--	<30dBm
159	5795	19.53	19.4	19.28	19.10	19.00	18.92	18.79	18.66	<30dBm

Note: Maximum conducted output power Value = Reading value on average power meter + cable loss

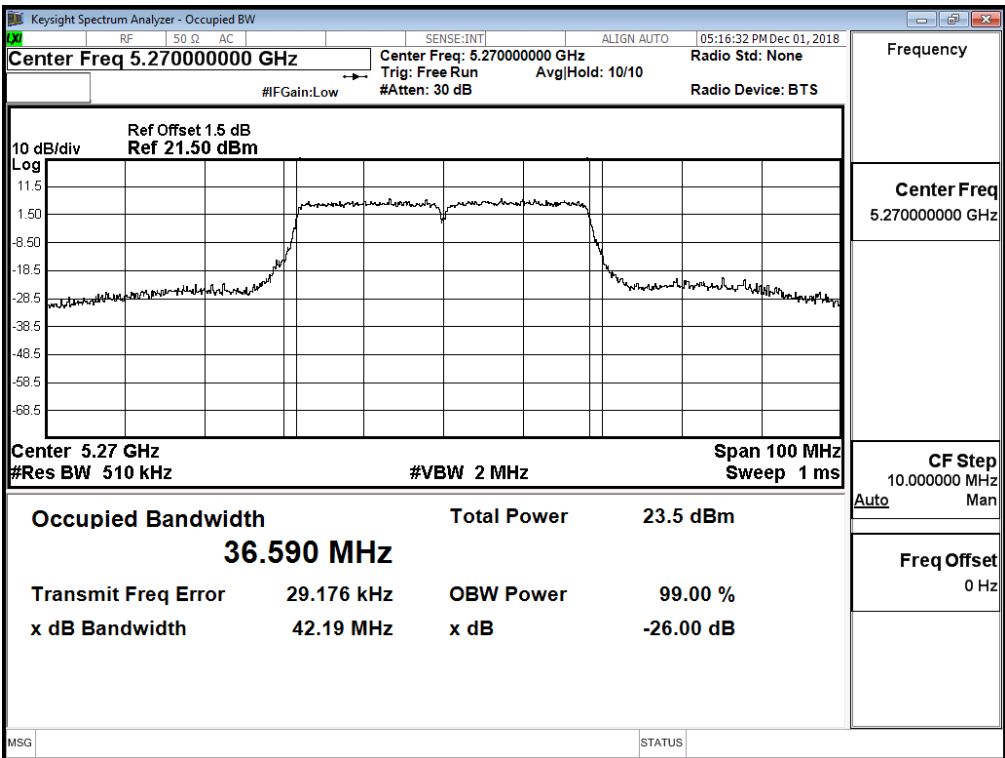
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	--	17.79	24	--
46	5230	--	19.13	24	--
54	5270	36.590	18.51	24	26.63
62	5310	36.545	14.34	24	26.63
102	5510	36.515	16.32	24	26.62
118	5590	37.050	21.13	24	26.69
134	5670	36.590	19.36	24	26.63
151	5755	--	18.51	30	--
159	5795	--	19.53	30	--

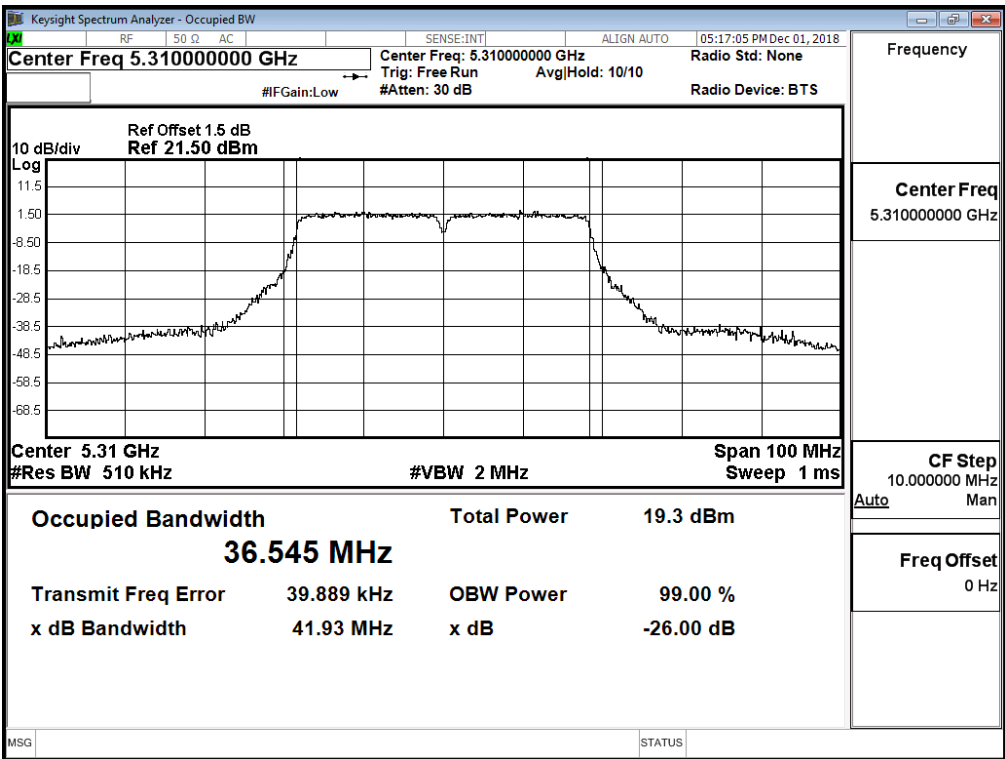
Note: Power Output Value = Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:

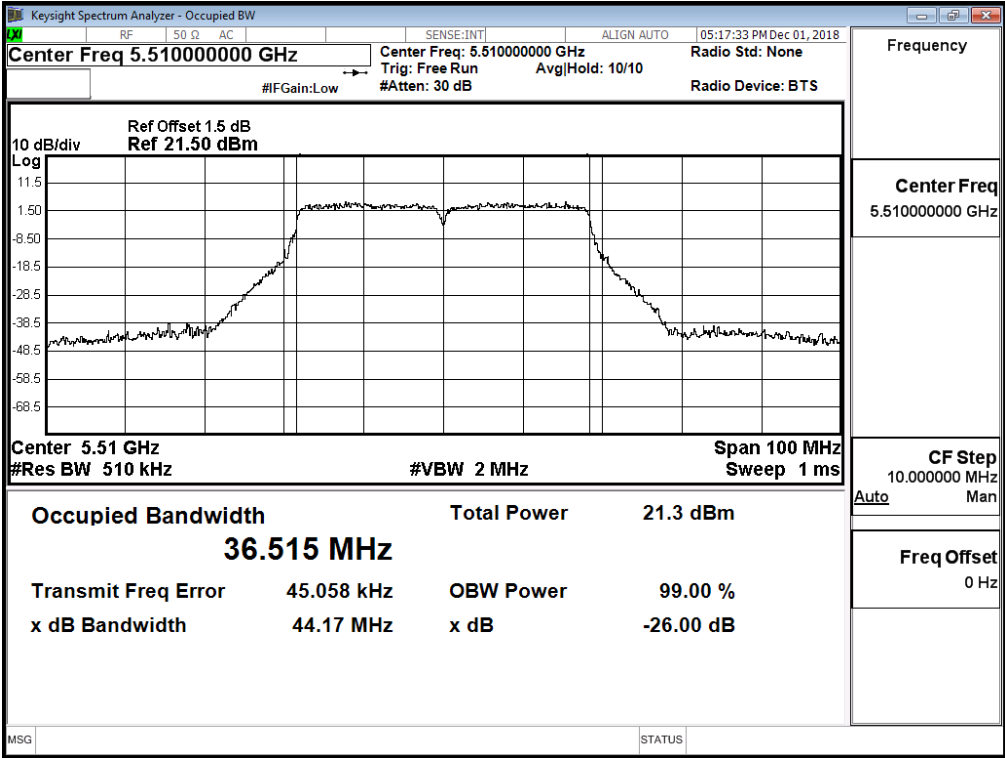
Channel 54



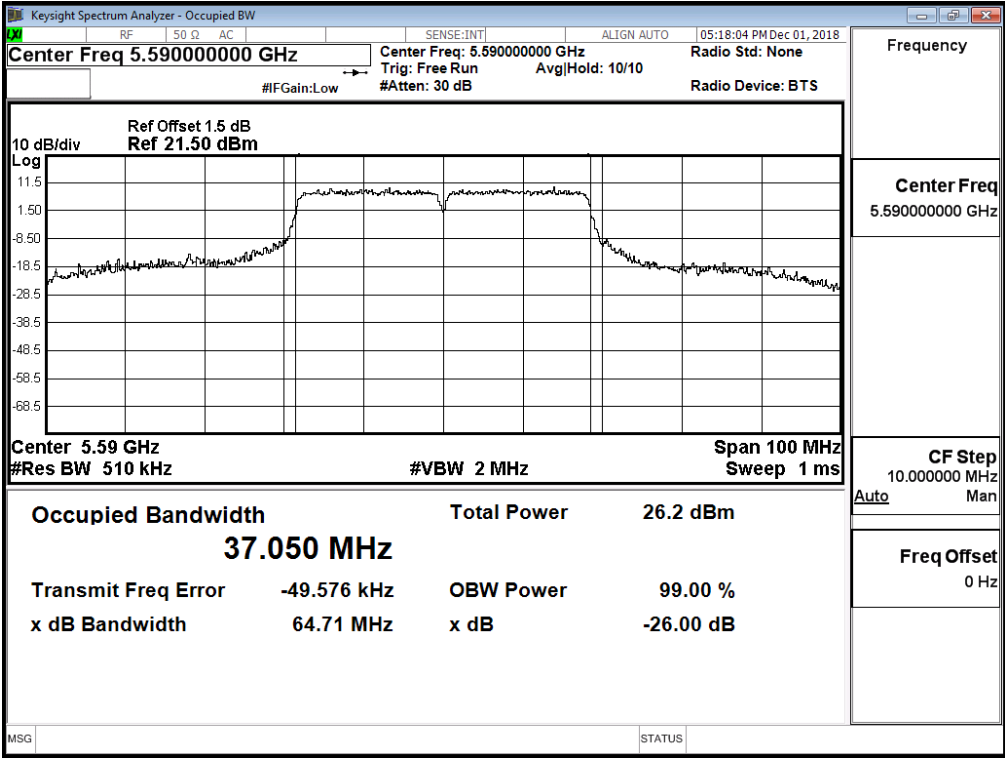
Channel 62



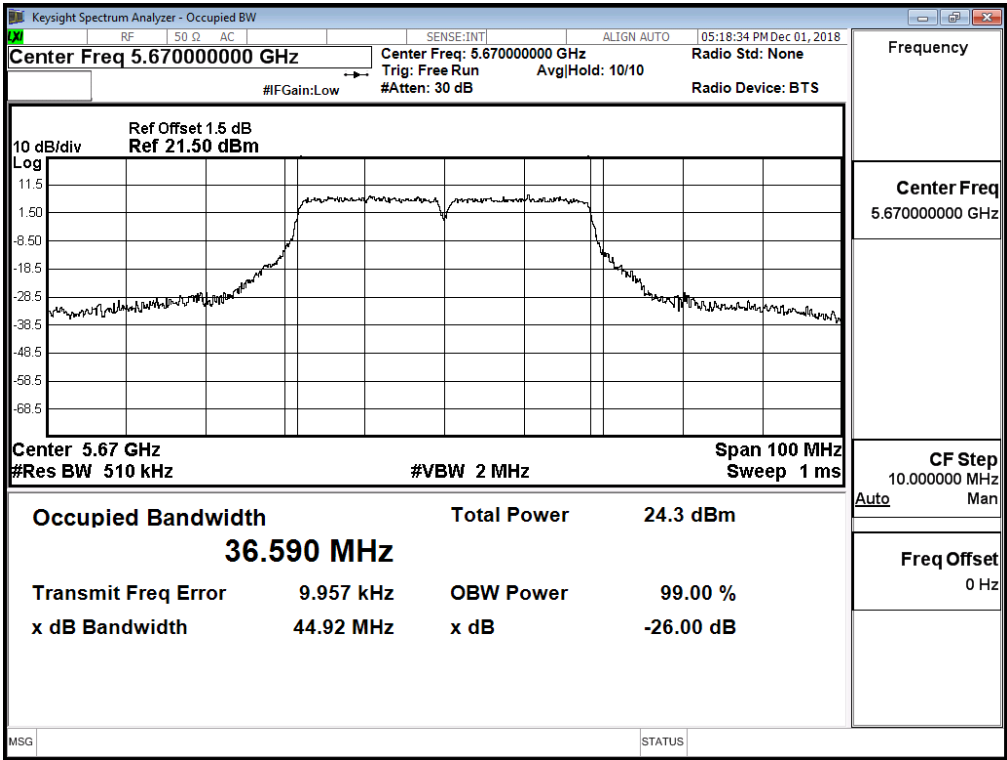
Channel 102



Channel 118



Channel 134



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-20BW-7.2Mbps)

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.62	19.54	19.48	19.32	19.23	19.10	18.92	18.76	18.68	<24dBm
144 (Band4)	5720	14.11	14.01	13.83	13.73	13.56	13.48	13.32	13.23	13.05	<30dBm

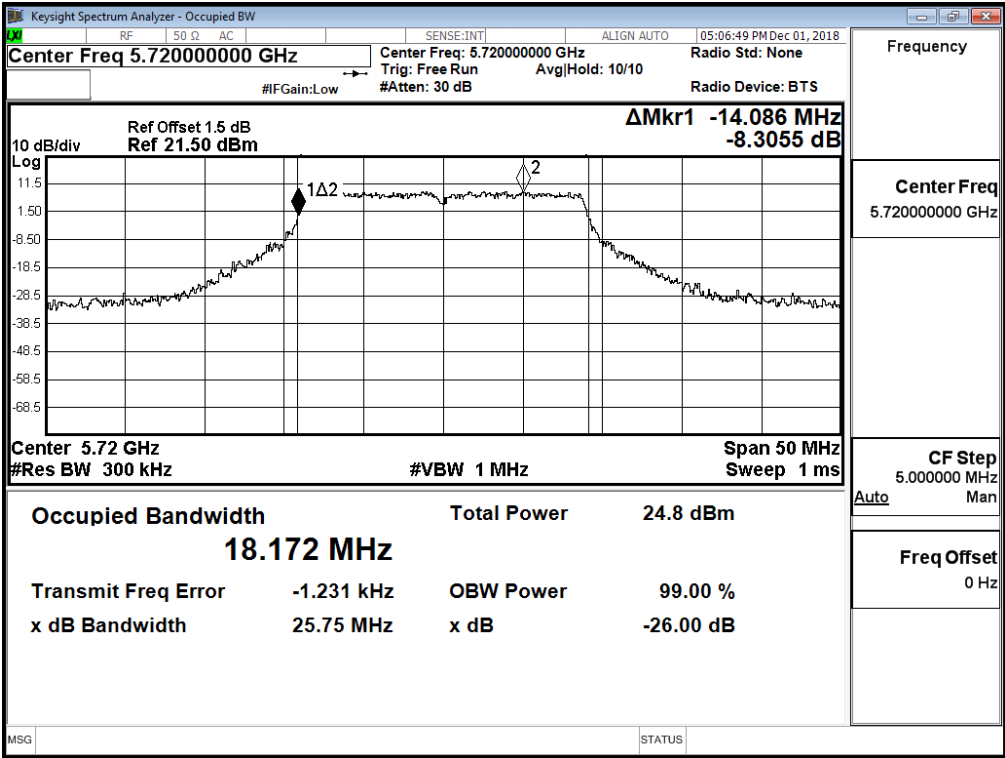
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

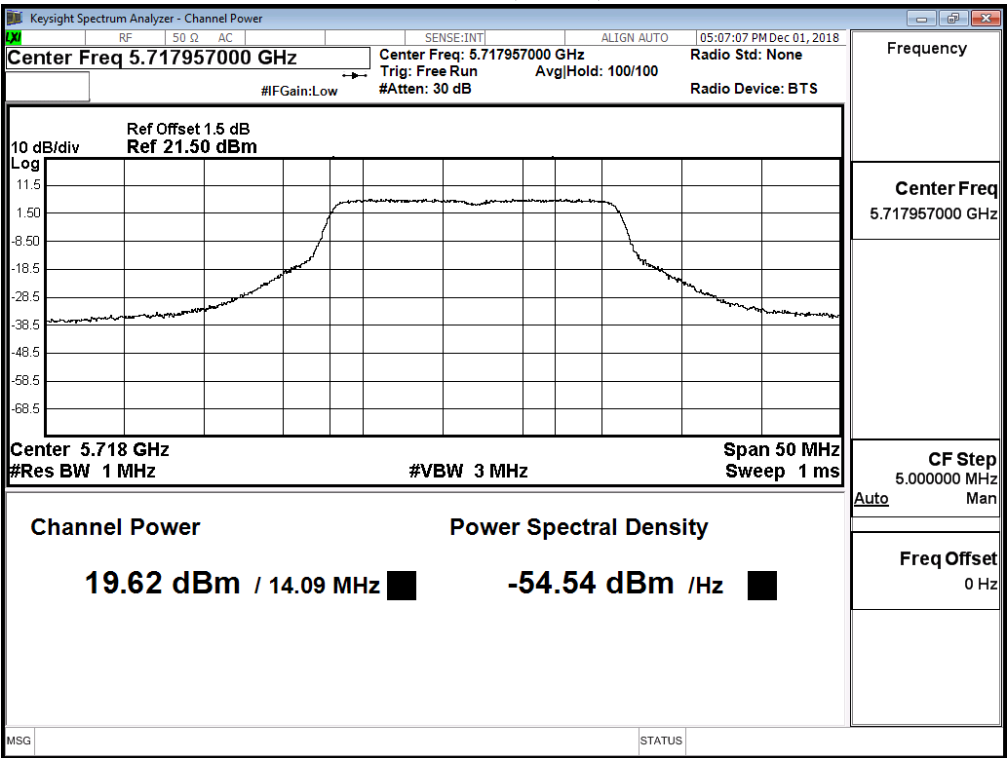
Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.086	19.62	19.62	24	22.49	Pass
144(Band4)	5720	--	14.11	14.11	30	--	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

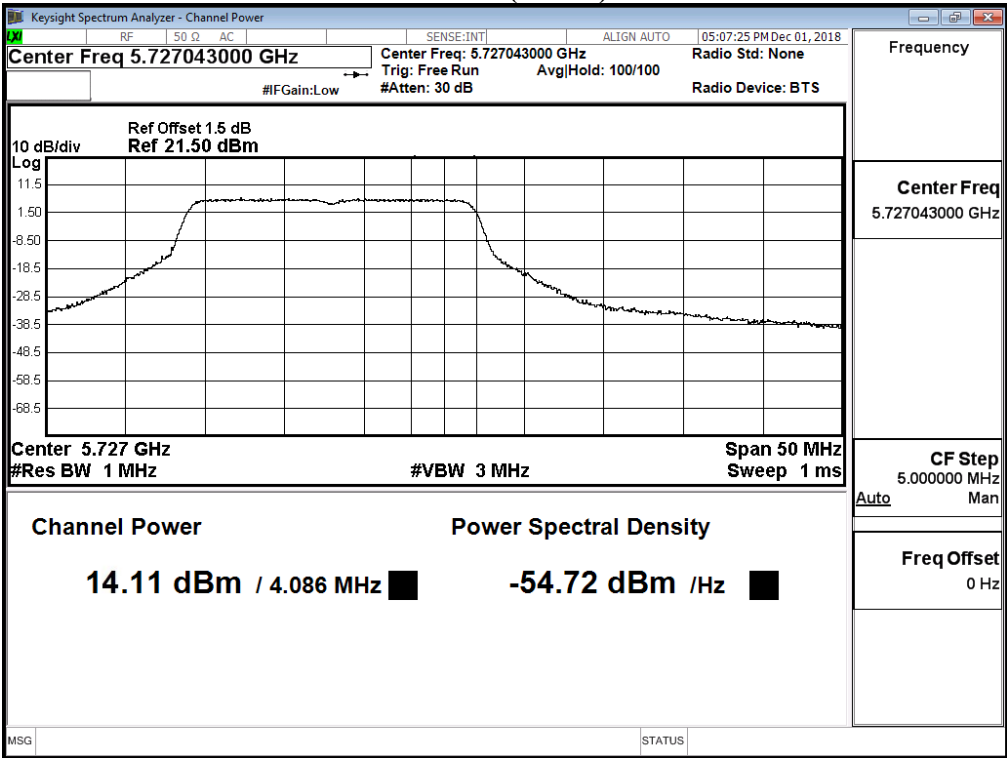
99% Occupied Bandwidth:
Channel 144



Maximum conducted output power:
Channel 144 (Band3)



Channel 144 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-40BW-15Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.58	19.45	19.37	19.25	19.08	18.98	18.82	18.76	18.67	18.59	<24dBm
142F(Band4)	5710	9.67	9.56	9.39	9.3	9.24	9.13	8.97	8.82	8.69	8.59	<30dBm

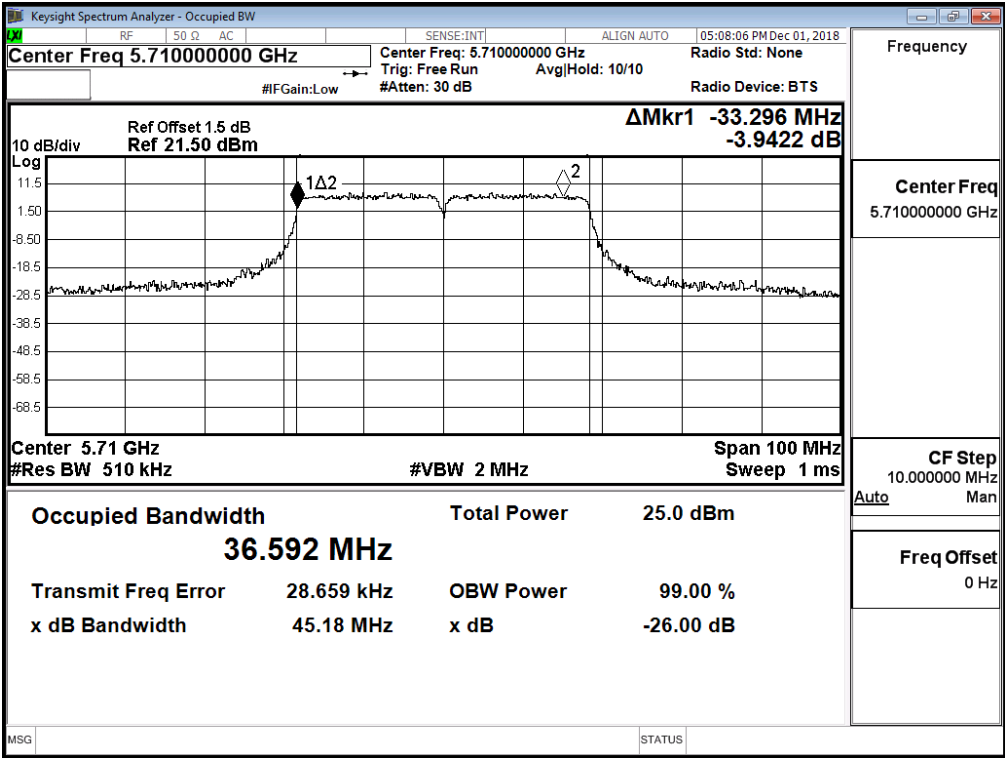
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

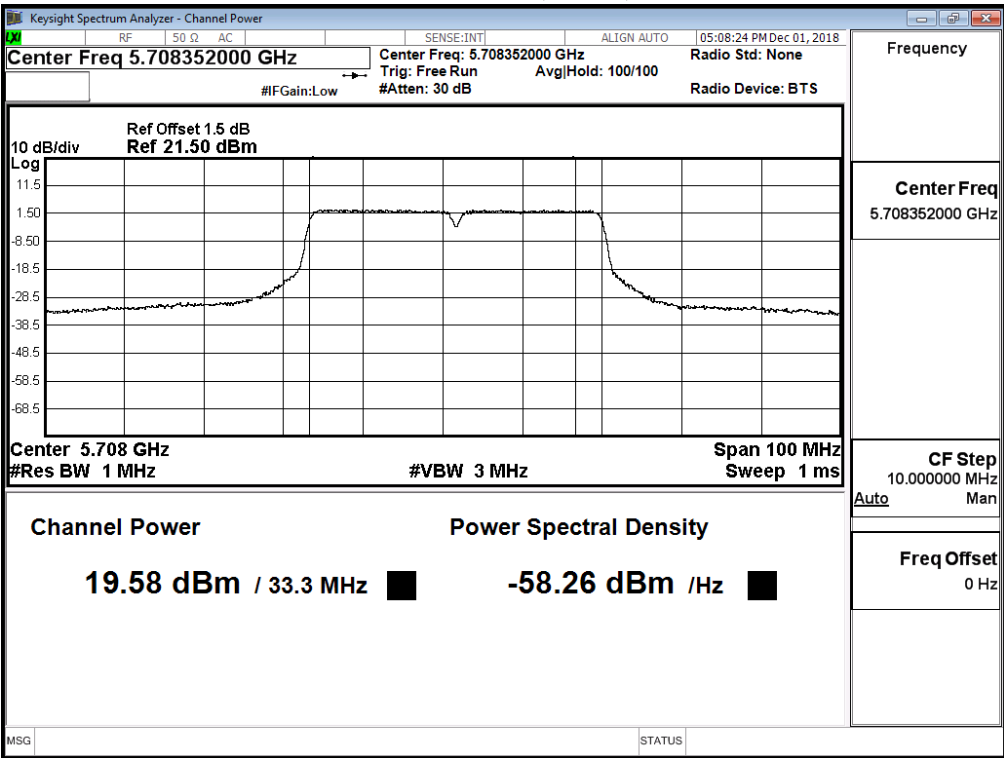
Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.296	19.58	19.58	24	26.22	Pass
142F(Band4)	5710	--	9.67	9.67	30	--	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

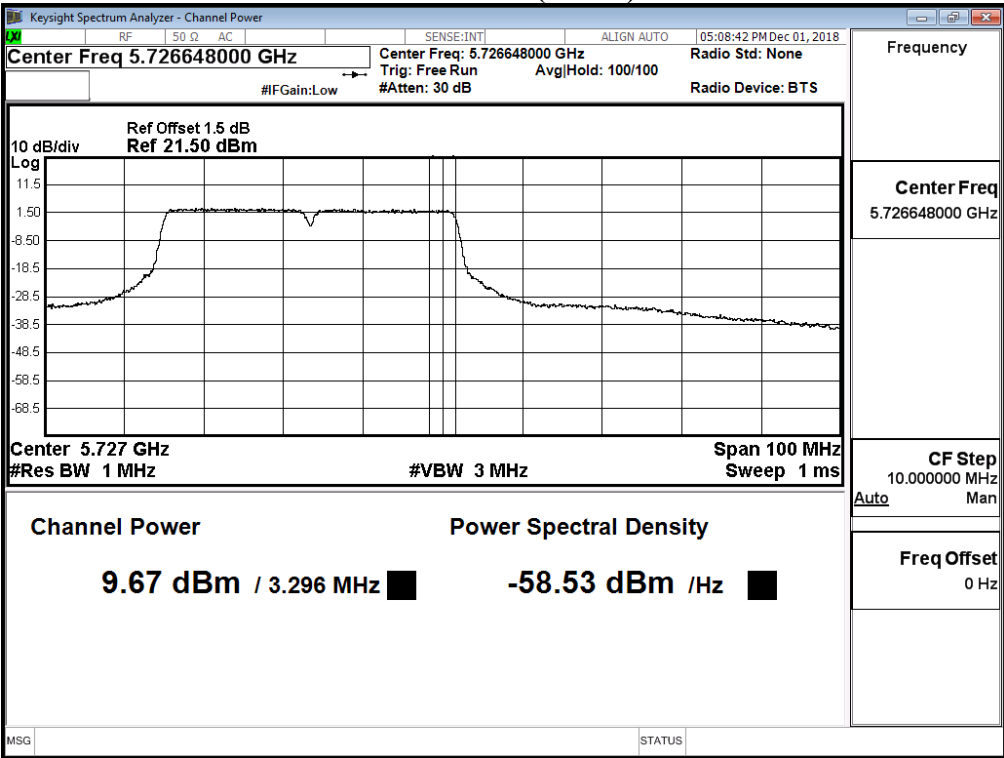
99% Occupied Bandwidth:
Channel 142



Maximum conducted output power:
Channel 142 (Band3)



Channel 142 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-80BW-32.5Mbps)

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	17.22	17.12	17.05	16.88	16.81	16.65	16.57	16.44	16.29	16.11	<24dBm
58	5290	15.18	15.04	14.91	14.76	14.68	14.57	14.45	14.36	14.18	14.06	<24dBm
106	5530	16.91	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	20.47	20.31	20.2	20.14	20.02	19.90	19.72	19.66	19.51	19.33	<24dBm
138(Band3)	5690	20.01	19.89	19.82	19.65	19.49	19.39	19.3	19.17	19.04	18.89	<24dBm
138(Band4)	5690	3.88	3.76	3.61	3.49	3.43	3.34	3.18	3.08	2.93	2.82	<30dBm
155	5775	18.06	17.97	17.87	17.69	17.63	17.52	17.35	17.19	17.05	16.89	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

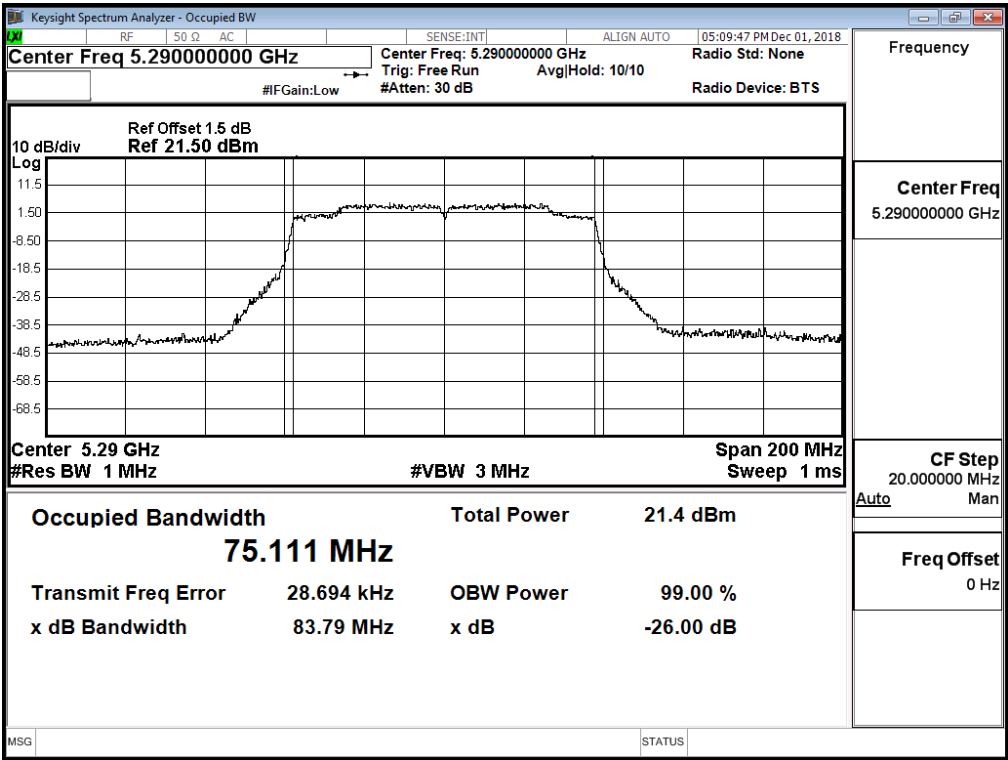
Maximum conducted output power Measurement:

Channel No	Frequency Range	99% Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	--	17.22	17.22	24	--	Pass
58	5290	75.111	15.18	15.18	24	29.76	Pass
106	5530	75.190	16.91	16.91	24	29.76	Pass
122	5610	75.288	20.47	20.47	24	29.77	Pass
138	5690	72.643	20.01	20.01	24	29.61	Pass
138ac80(Band4)	5690	--	3.88	3.88	30	--	Pass
155	5775	--	18.06	18.06	30	--	Pass

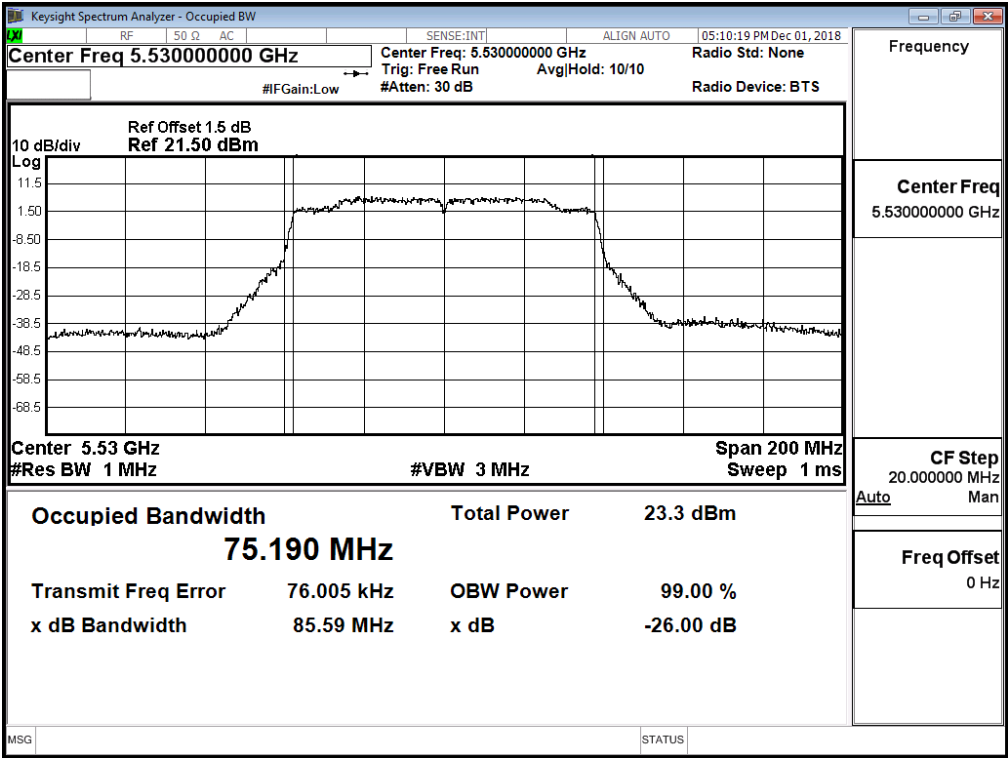
Note: Power Output Value =Reading value on average power meter + cable loss

99% Occupied Bandwidth:

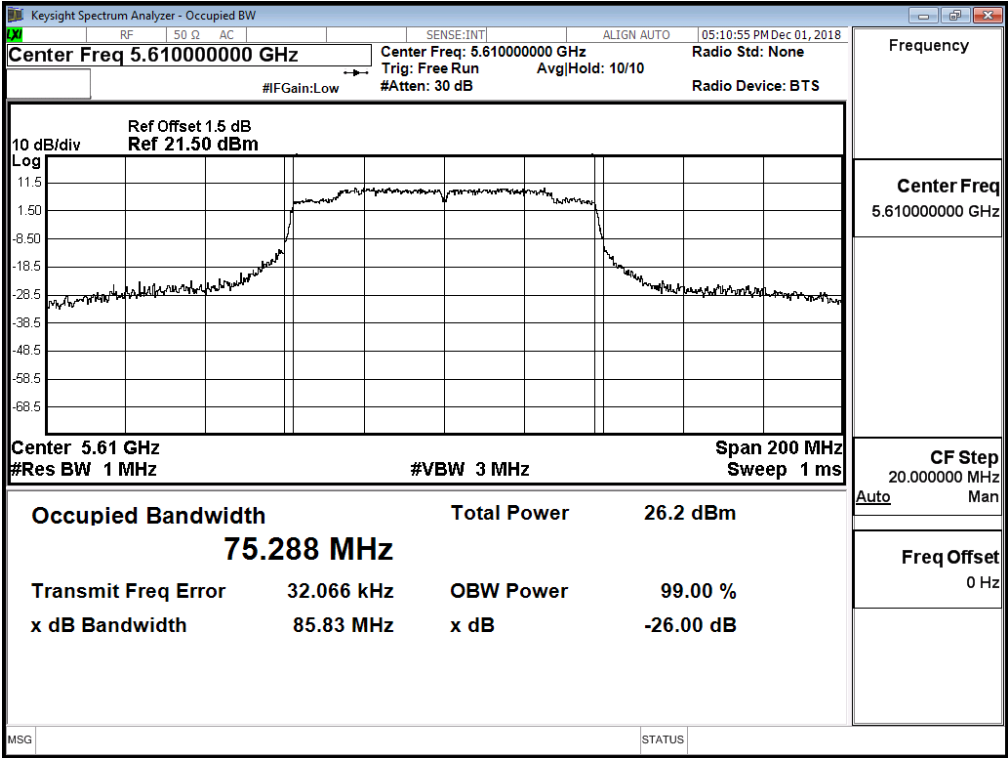
Channel 58



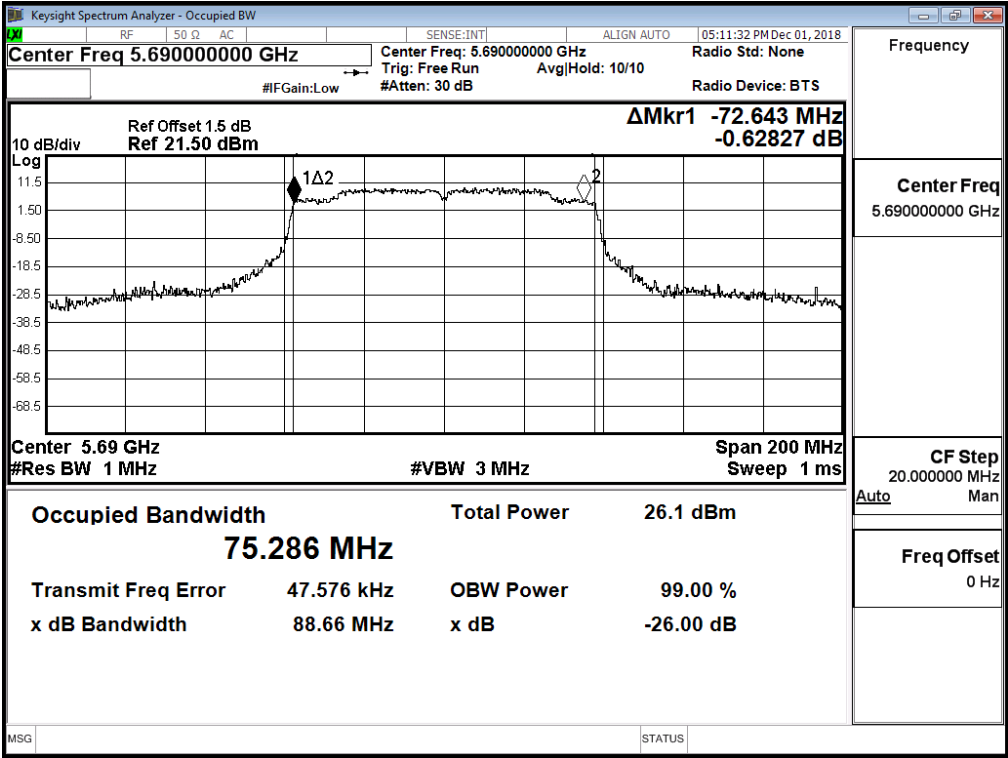
Channel 106



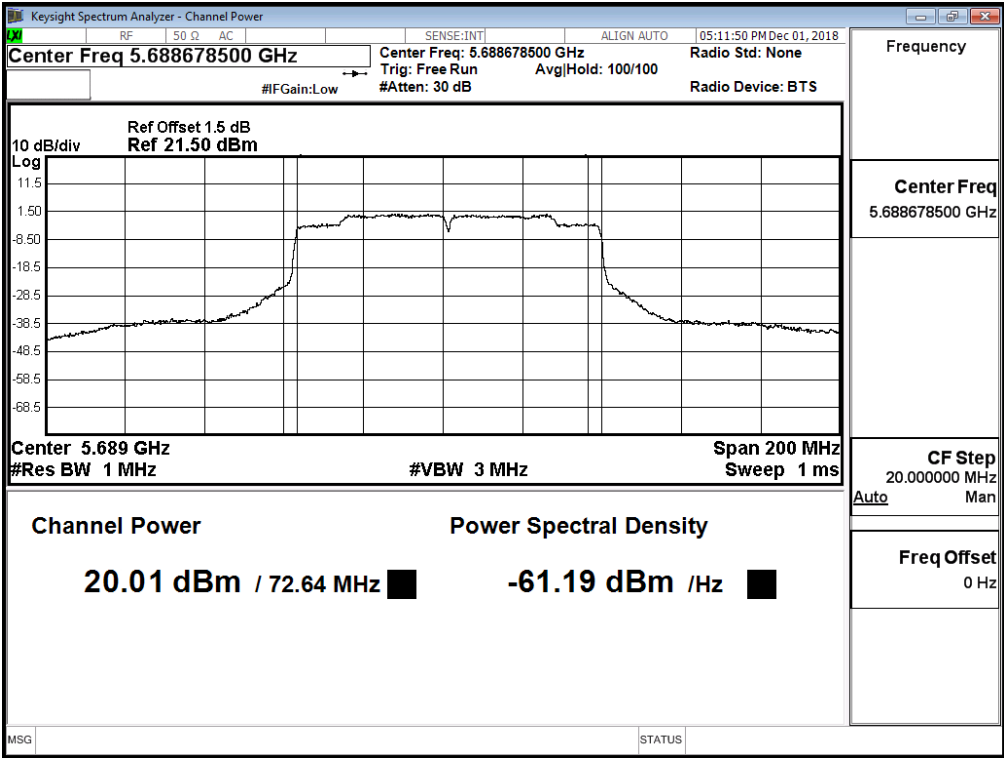
Channel 122



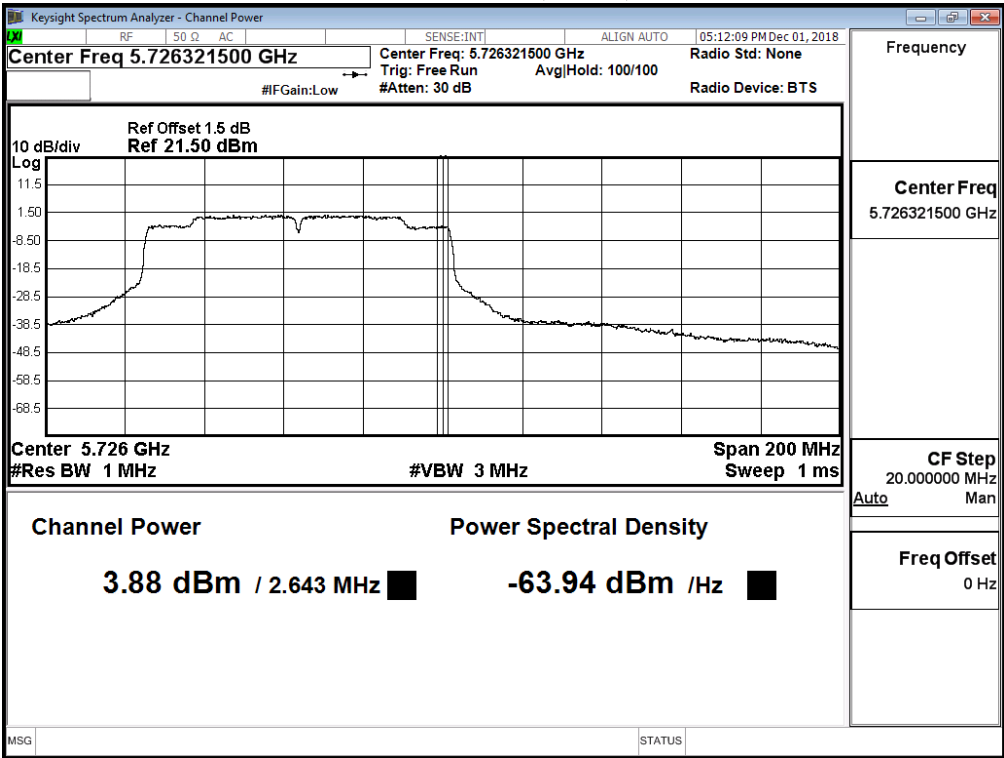
Channel 138



Maximum conducted output power:
Channel 138 (Band3)



Maximum conducted output power:
Channel 138 (Band4)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 2 SISO B: Transmit (802.11ac-160BW_65Mbps)

Cable loss=1.5dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
50(U-NII-1)	5250	10.02	9.86	9.73	9.65	9.48	9.32	9.17	9.04	8.87	8.72	<24dBm
50(U-NII-2A)	5250	9.87	9.75	9.67	9.52	9.46	9.31	9.19	9.11	8.98	8.9	<24dBm
114	5570	14.38	14.27	14.12	13.97	13.87	13.7	13.56	13.48	13.41	13.34	<24dBm

Note: Maximum conducted output power Value =Reading value on Spectrum Analyzer + cable loss

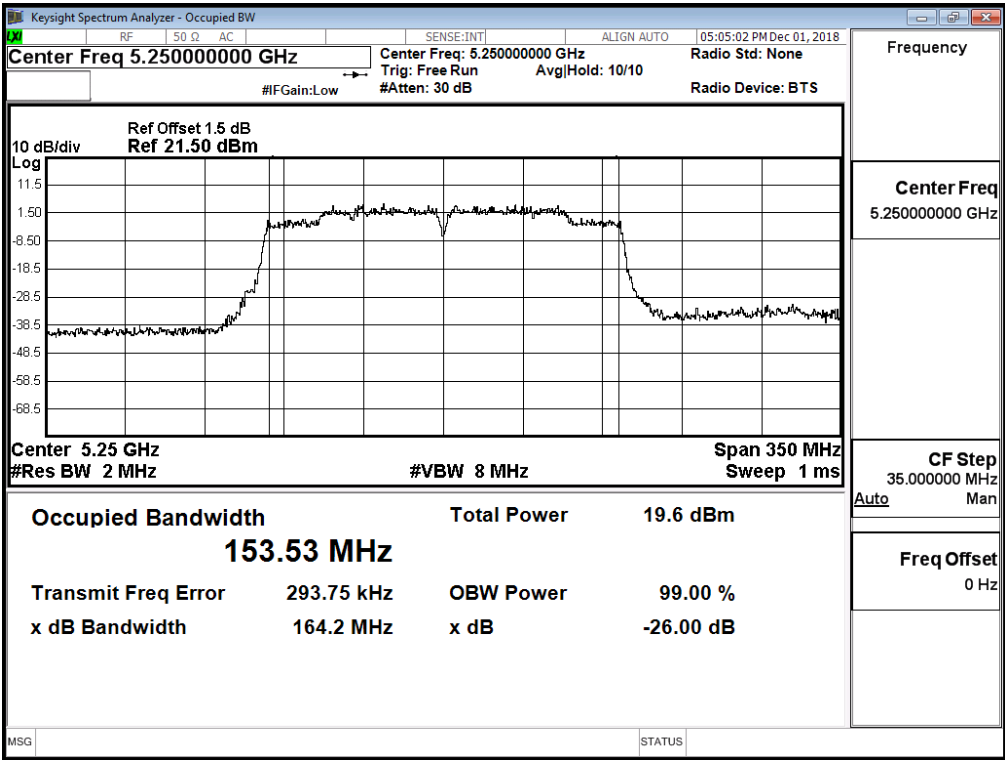
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Output Power (dBm)	Output Power Limit		Result
				(dBm)	dBm+10log(BW)	
50(U-NII-1)	5250	--	10.02	24	--	Pass
50(U-NII-2A)	5250	76.765	9.87	24	29.85	Pass
114	5570	152.850	14.38	24	32.84	Pass

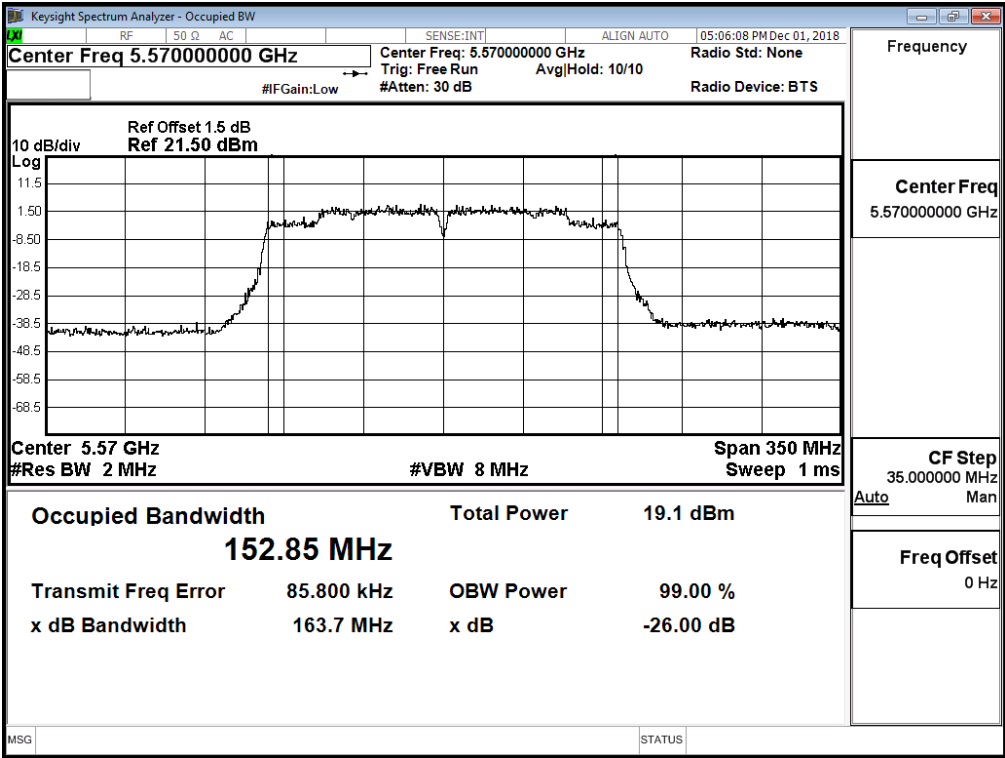
Note: Power Output Value =Reading value on average power meter + cable loss

99% Occupied Bandwidth:

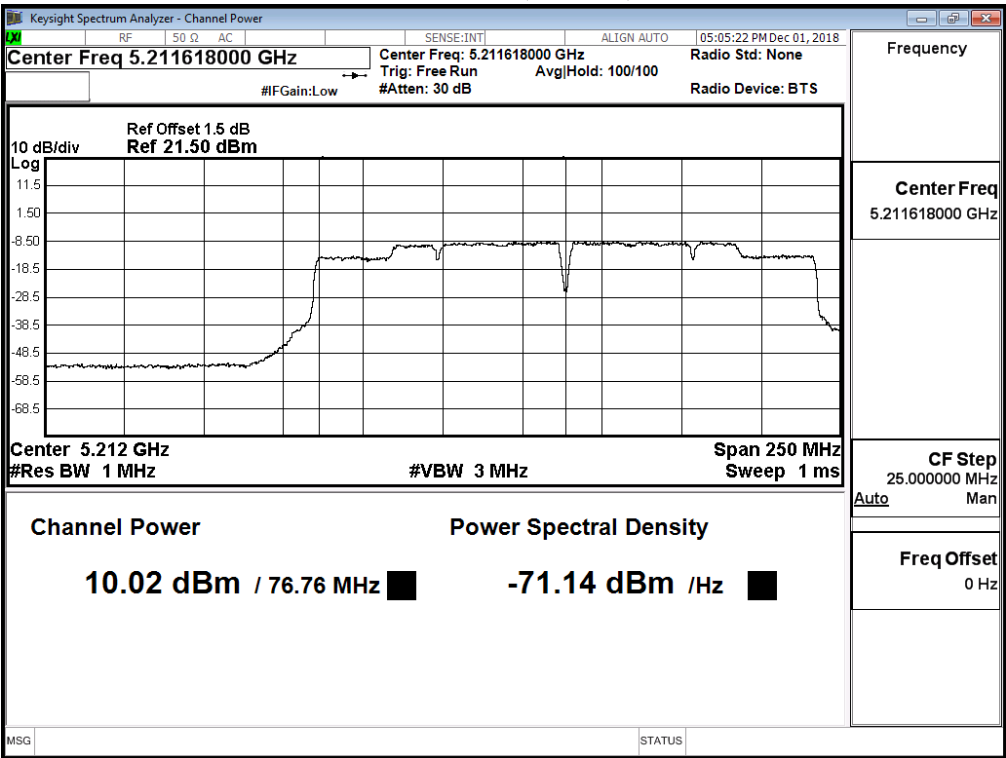
Channel 50



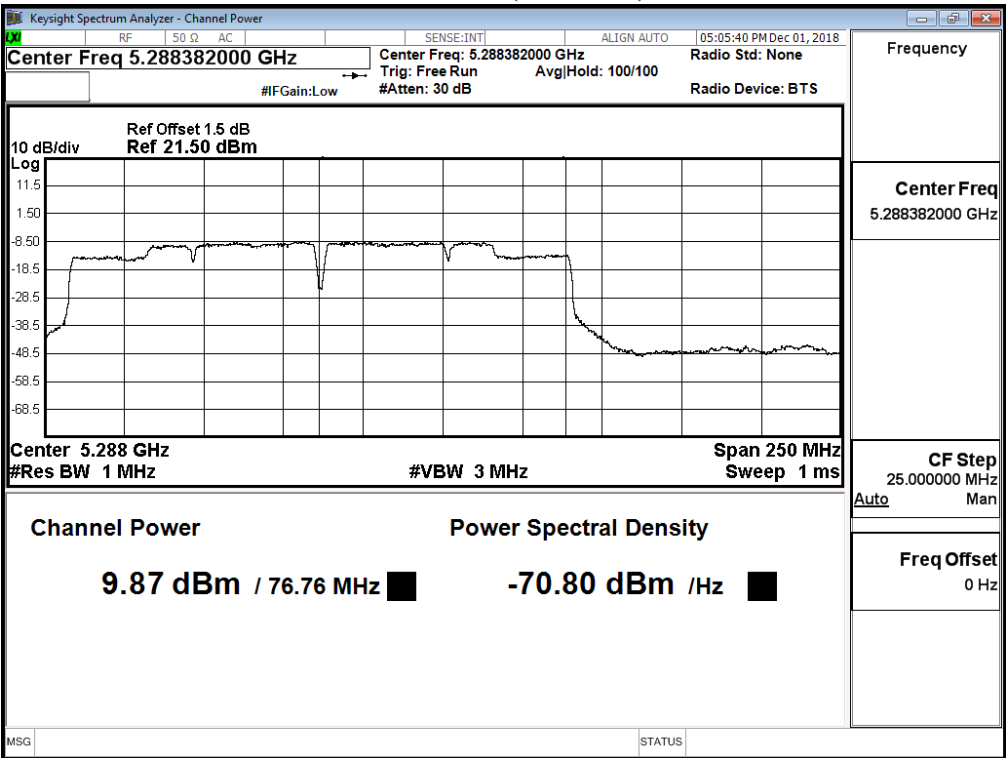
Channel 114



Maximum conducted output power:
Channel 50 (U-NII-1)



Maximum conducted output power:
Channel 50 (U-NII-2A)



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 3 MIMO: Transmit (802.11n-20BW 14.4Mbps)

Chain A

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.62	--	--	--	--	--	--	--	<24dBm
40	5200	19.42	19.37	19.19	19.12	19.05	18.97	18.91	18.76	<24dBm
48	5240	19.41	--	--	--	--	--	--	--	<24dBm
52	5260	19.43	--	--	--	--	--	--	--	<24dBm
56	5280	19.24	19.09	18.94	18.82	18.74	18.67	18.58	18.43	<24dBm
64	5320	15.64	--	--	--	--	--	--	--	<24dBm
100	5500	15.59	--	--	--	--	--	--	--	<24dBm
120	5600	19.58	19.47	19.34	19.2	19.13	19.06	18.93	18.84	<24dBm
140	5700	17.63	--	--	--	--	--	--	--	<24dBm
149	5745	21.05	--	--	--	--	--	--	--	<30dBm
157	5785	21.18	21.09	21	20.88	20.8	20.69	20.56	20.39	<30dBm
165	5825	21.06	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	
		Measurement Level (dBm)								
36	5180	15.41	--	--	--	--	--	--	--	<24dBm
40	5200	19.61	19.52	19.34	19.27	19.11	19.01	18.88	18.81	<24dBm
48	5240	19.53	--	--	--	--	--	--	--	<24dBm
52	5260	19.72	--	--	--	--	--	--	--	<24dBm
56	5280	19.17	19.1	19.03	18.88	18.71	18.58	18.52	18.44	<24dBm
64	5320	15.76	--	--	--	--	--	--	--	<24dBm
100	5500	15.72	--	--	--	--	--	--	--	<24dBm
120	5600	19.35	19.18	19.03	18.87	18.7	18.63	18.5	18.36	<24dBm
140	5700	18.16	--	--	--	--	--	--	--	<24dBm
149	5745	20.98	--	--	--	--	--	--	--	<30dBm
157	5785	20.92	20.76	20.68	20.55	20.45	20.37	20.26	20.08	<30dBm
165	5825	21.14	--	--	--	--	--	--	--	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

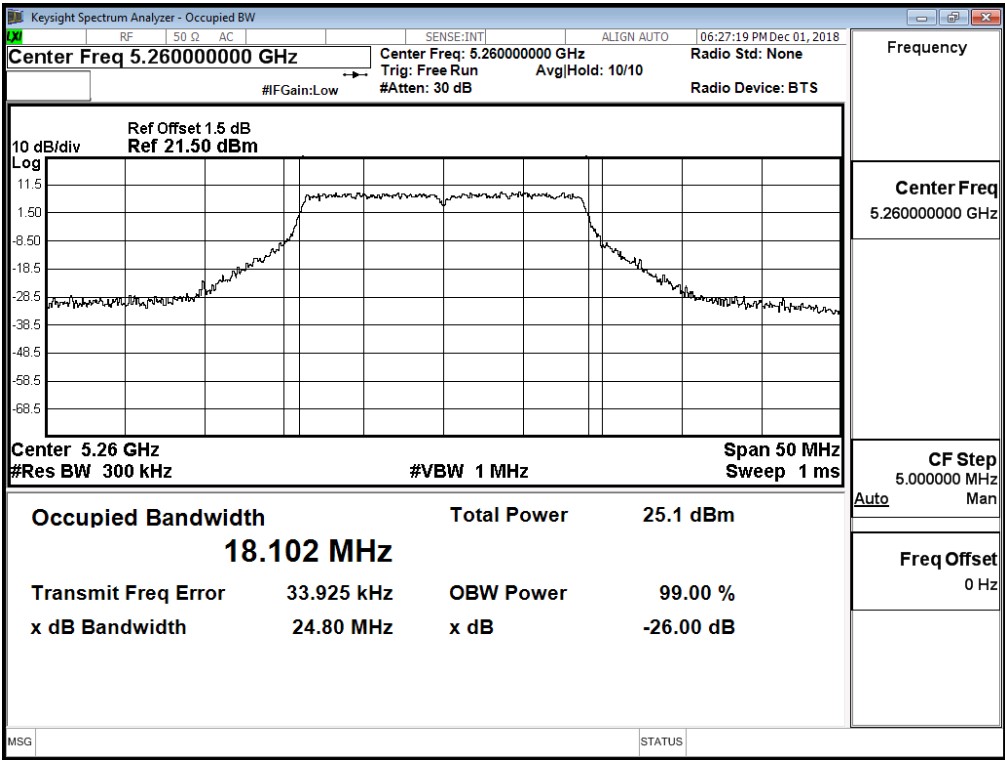
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	--	15.62	15.41	18.53	24	--
40	5200	--	19.42	19.61	22.53	24	--
48	5240	--	19.41	19.53	22.48	24	--
52	5260	18.046	19.43	19.72	22.59	24	23.56
56	5280	17.943	19.24	19.17	22.22	24	23.54
64	5320	17.911	15.64	15.76	18.71	24	23.53
100	5500	17.933	15.59	15.72	18.67	24	23.54
120	5600	17.977	19.58	19.35	22.48	24	23.55
140	5700	17.956	17.63	18.16	20.91	24	23.54
149	5745	--	21.05	20.98	24.03	30	--
157	5785	--	21.18	20.92	24.06	30	--
165	5825	--	21.06	21.14	24.11	30	--

Note:

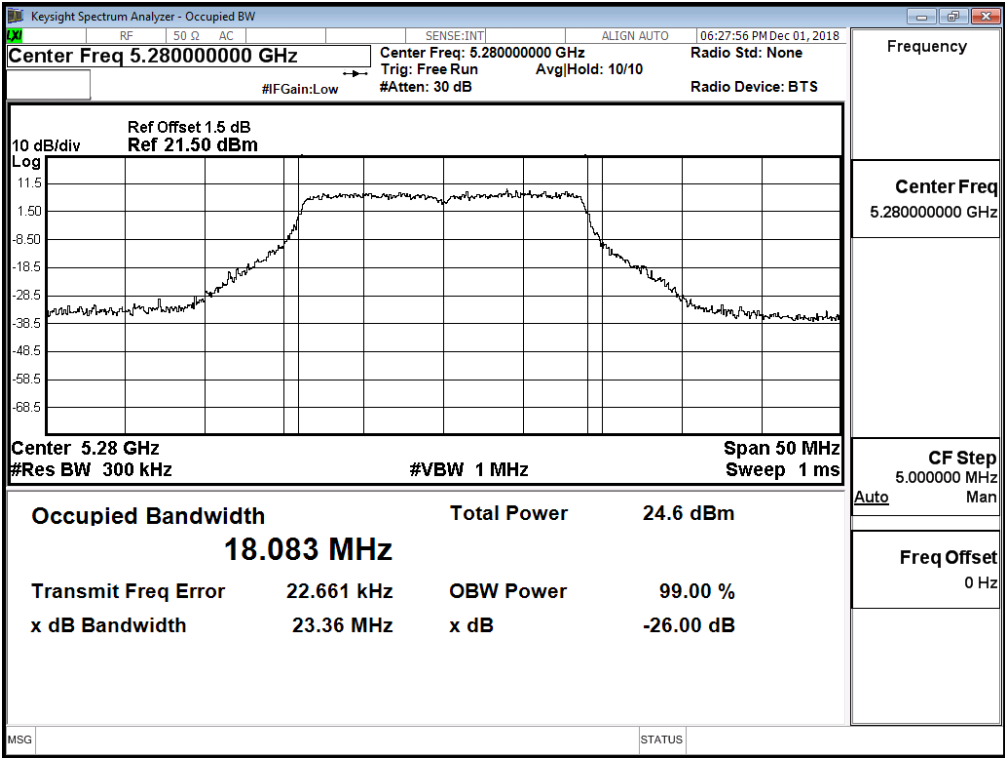
1. Power Output Value = Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

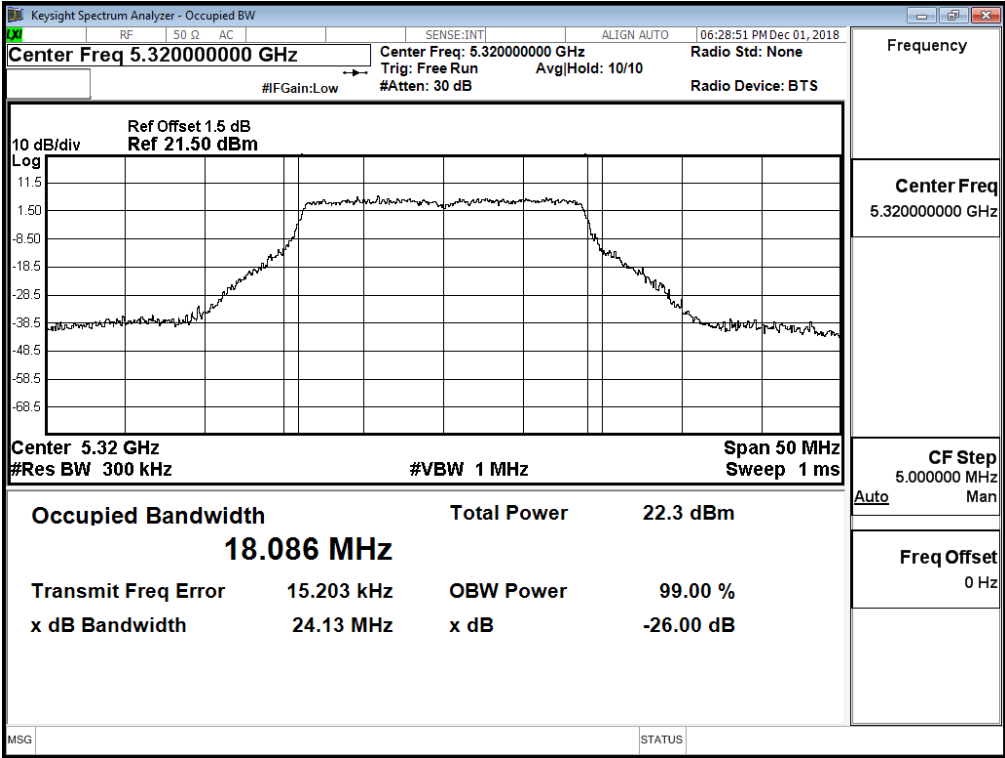
Channel 52 -Chain A



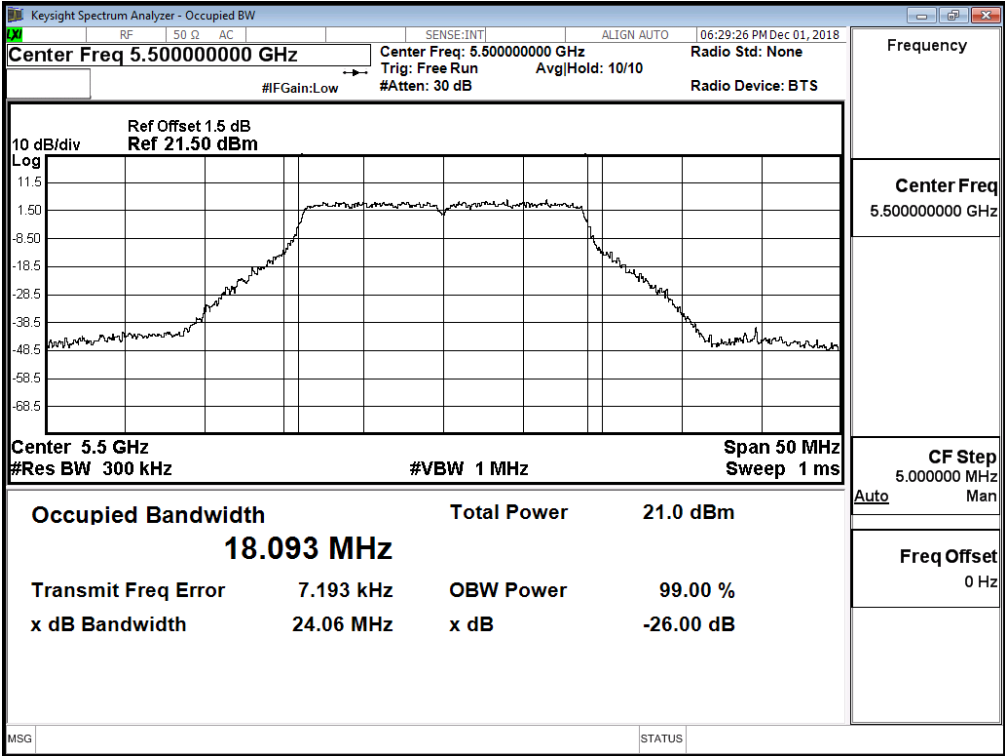
Channel 56 -Chain A



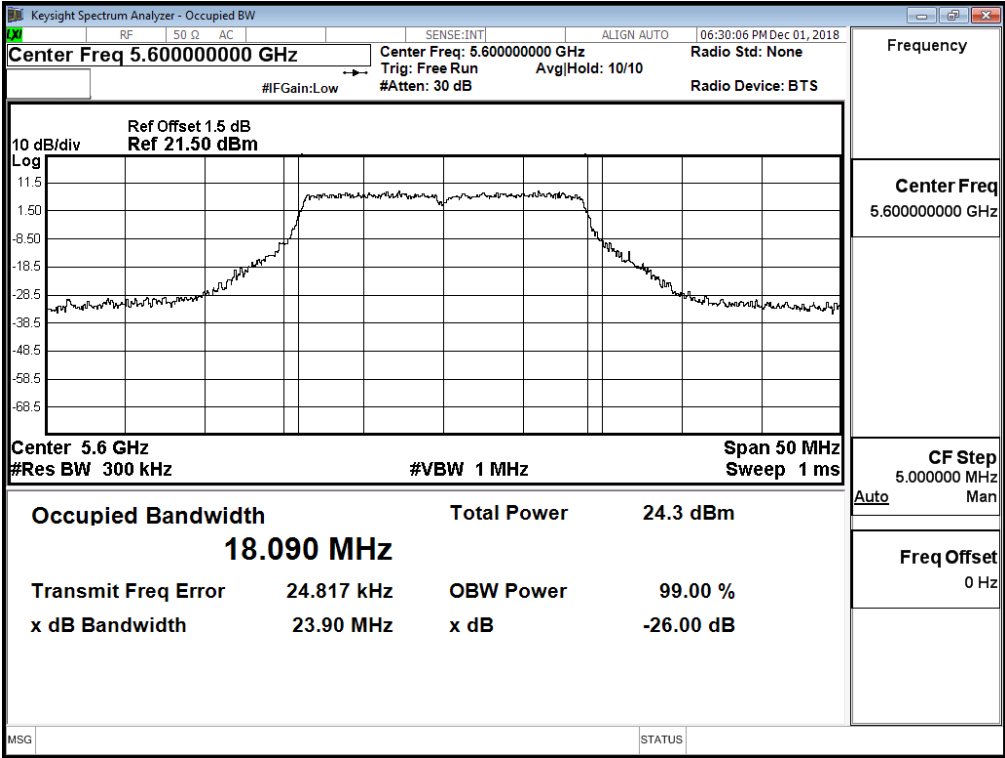
Channel 64 -Chain A



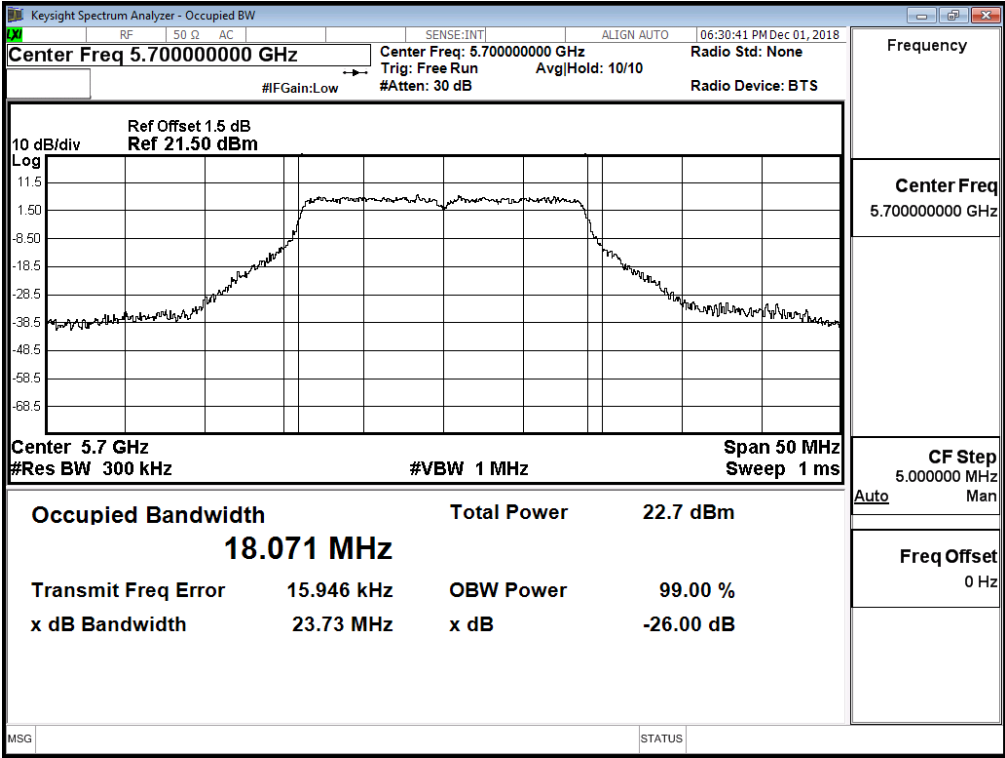
Channel 100 -Chain A



Channel 120 -Chain A

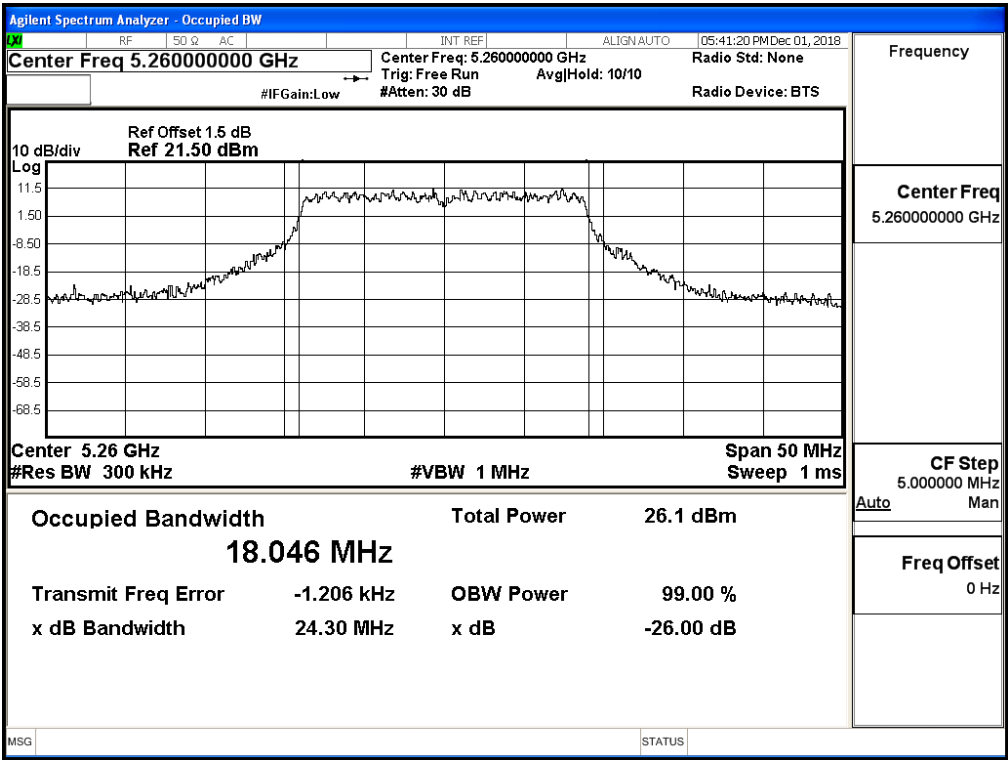


Channel 140 -Chain A

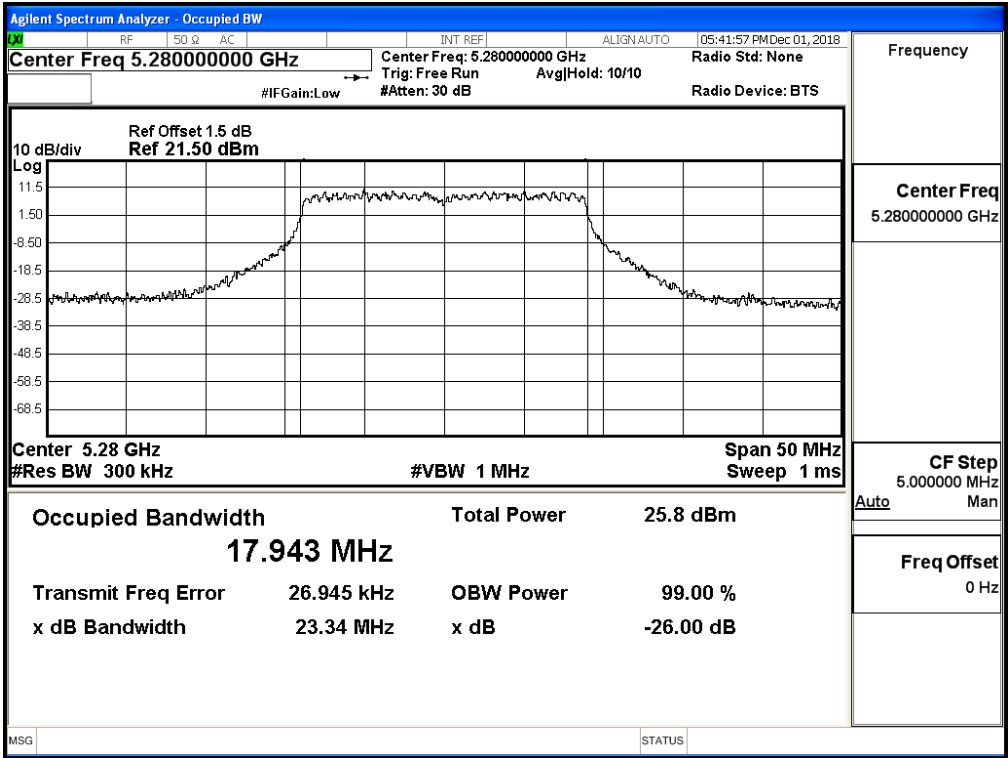


99% Occupied Bandwidth:

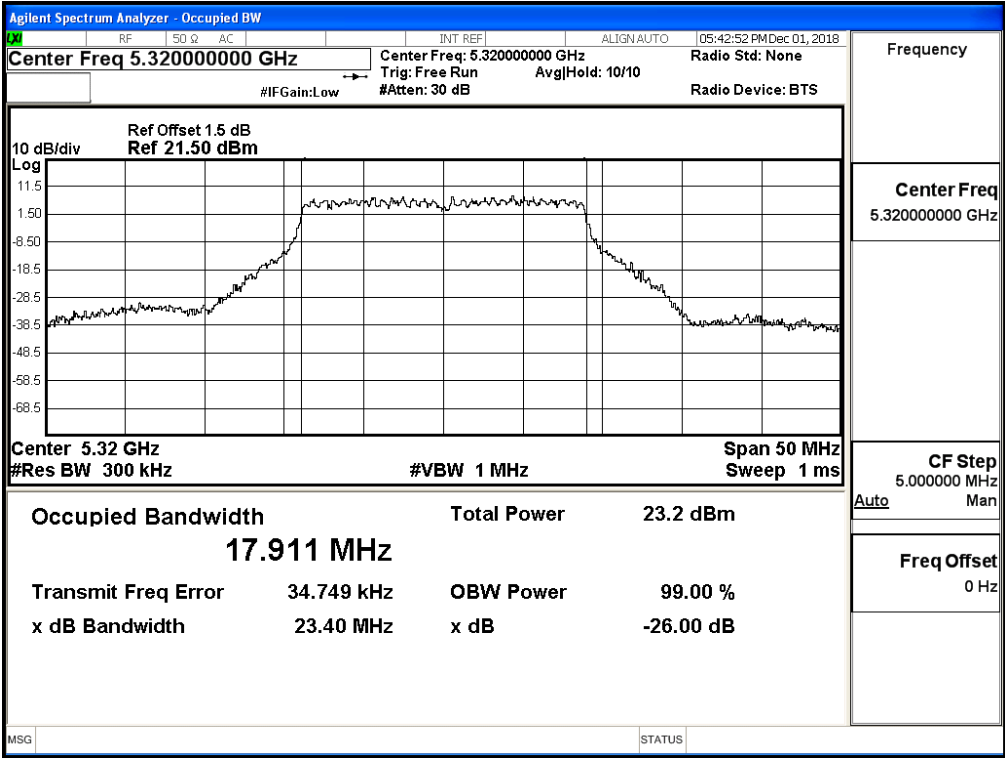
Channel 52 -Chain B



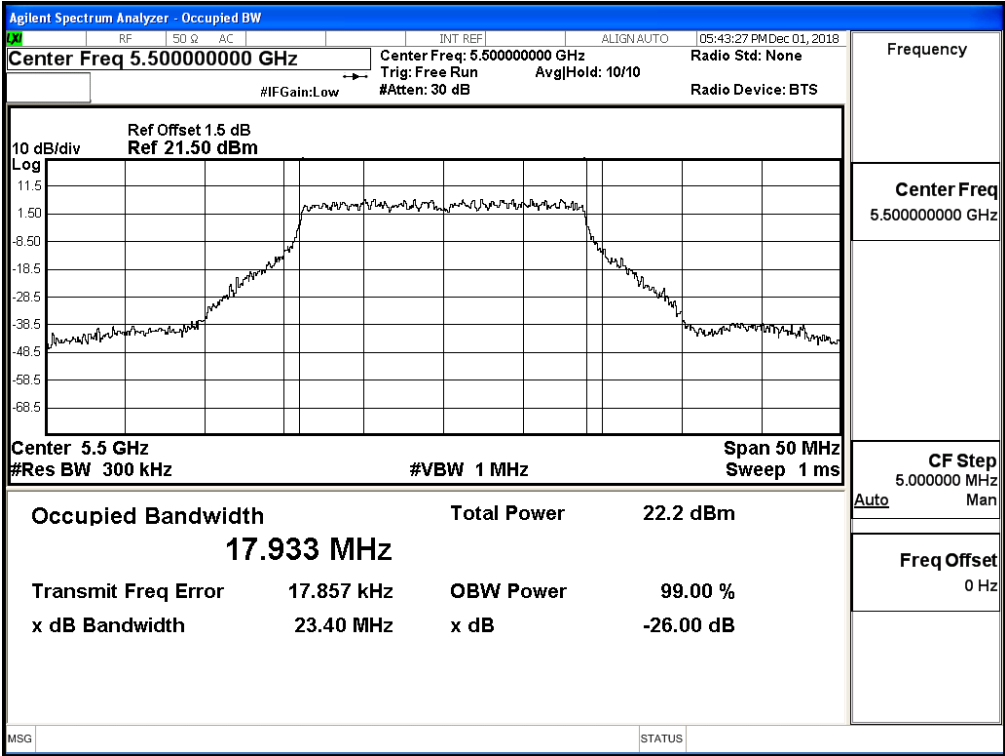
Channel 56 -Chain B



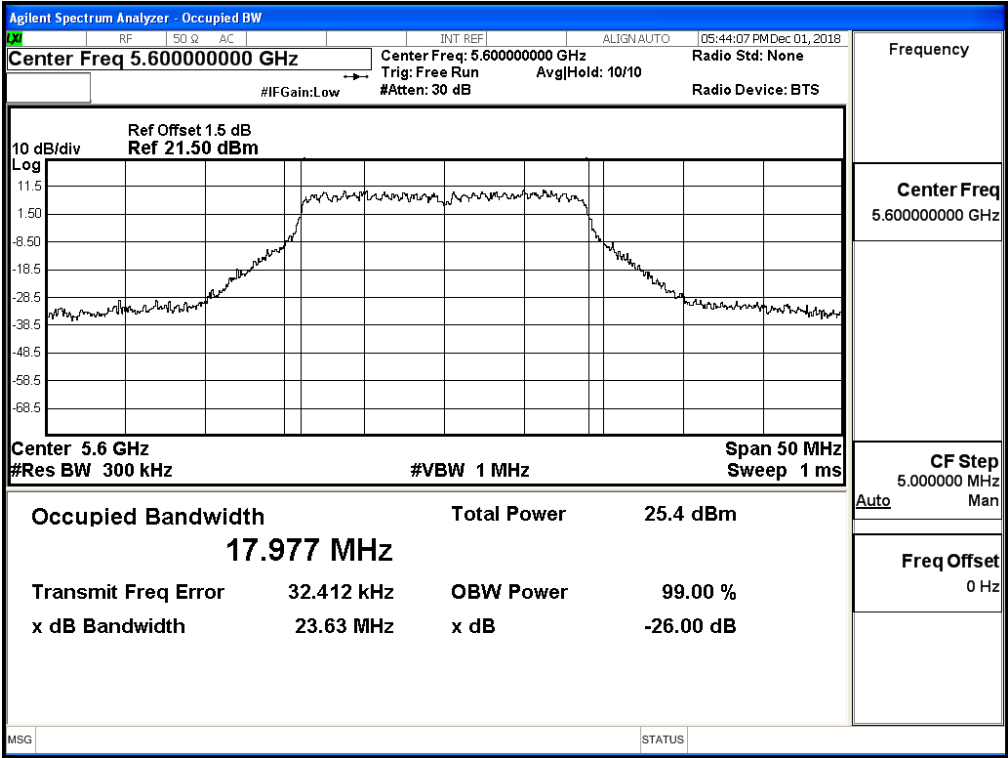
Channel 64 -Chain B



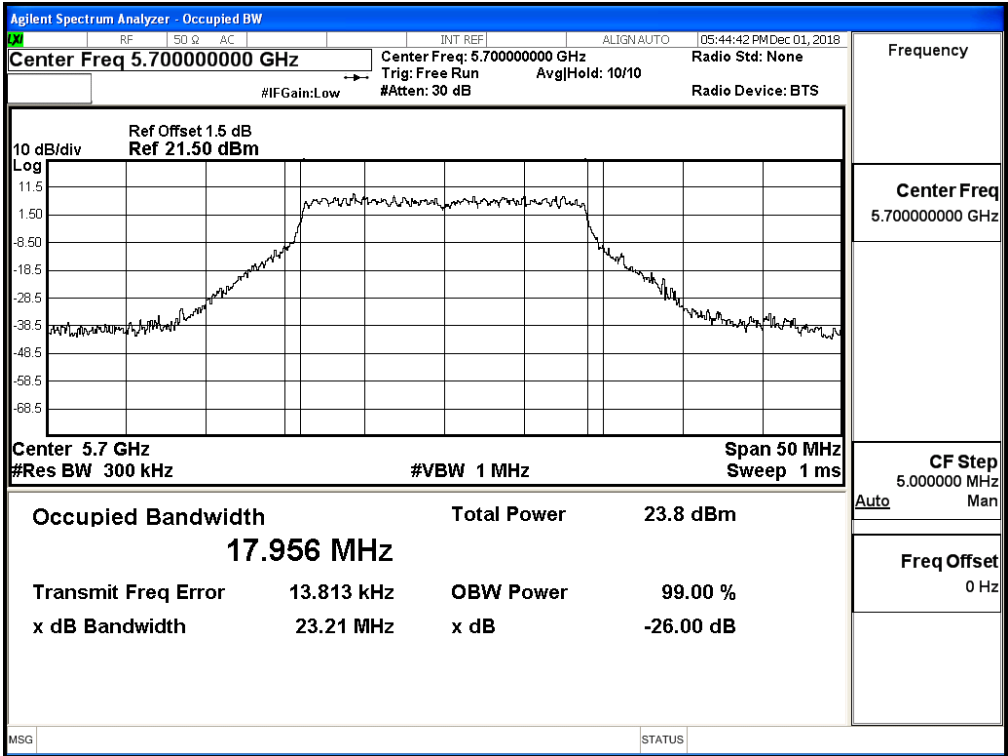
Channel 100 -Chain B



Channel 120 -Chain B



Channel 140 -Chain B



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 3 MIMO: Transmit (802.11n-40BW 30Mbps)

Chain A

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	15.42	--	--	--	--	--	--	--	<24dBm
46	5230	18.43	18.35	18.24	18.07	17.94	17.88	17.71	17.54	<24dBm
54	5270	17.43	--	--	--	--	--	--	--	<24dBm
62	5310	14.17	14.06	13.92	13.82	13.68	13.57	13.47	13.34	<24dBm
102	5510	15.72	--	--	--	--	--	--	--	<24dBm
118	5590	21.06	20.98	20.8	20.64	20.46	20.34	20.24	20.15	<24dBm
134	5670	17.69	--	--	--	--	--	--	--	<24dBm
151	5755	18.58	--	--	--	--	--	--	--	<30dBm
159	5795	19.66	19.57	19.44	19.33	19.22	19.15	19.04	18.87	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power								
Channel No.	Frequency (MHz)	Data Rate (Mbps)								Required Limit
		30	60	90	120	180	240	270	300	
		Measurement Level (dBm)								
38	5190	15.12	--	--	--	--	--	--	--	<24dBm
46	5230	18.48	18.41	18.24	18.09	18.02	17.86	17.76	17.7	<24dBm
54	5270	17.23	--	--	--	--	--	--	--	<24dBm
62	5310	14.2	14.13	14.05	13.94	13.87	13.81	13.69	13.63	<24dBm
102	5510	15.31	--	--	--	--	--	--	--	<24dBm
118	5590	19.56	19.5	19.32	19.17	19.11	18.93	18.86	18.68	<24dBm
134	5670	18.22	--	--	--	--	--	--	--	<24dBm
151	5755	17.86	--	--	--	--	--	--	--	<30dBm
159	5795	19.03	18.97	18.85	18.7	18.64	18.5	18.42	18.32	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

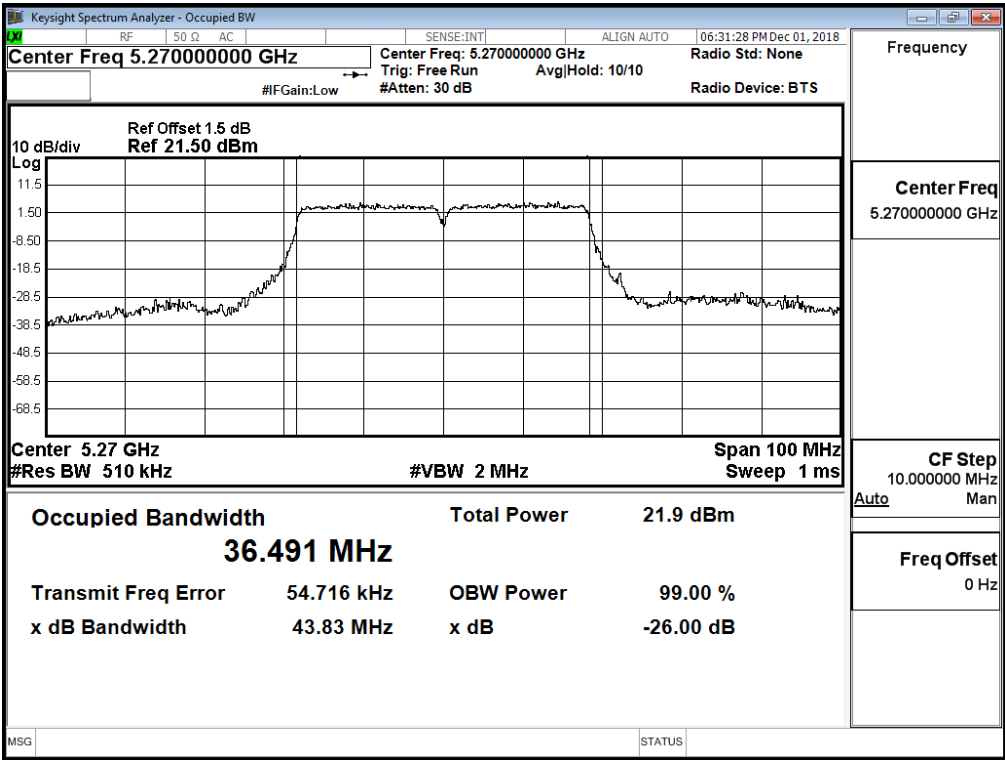
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
38	5190	--	15.42	15.12	18.28	24	--
46	5230	--	18.43	18.48	21.47	24	--
54	5270	36.394	17.43	17.23	20.34	24	26.61
62	5310	36.419	14.17	14.20	17.20	24	26.61
102	5510	36.440	15.72	15.31	18.53	24	26.62
118	5590	36.459	21.06	19.56	23.38	24	26.62
134	5670	36.441	17.69	18.22	20.97	24	26.62
151	5755	--	18.58	17.86	21.25	30	--
159	5795	--	19.66	19.03	22.37	30	--

Note:

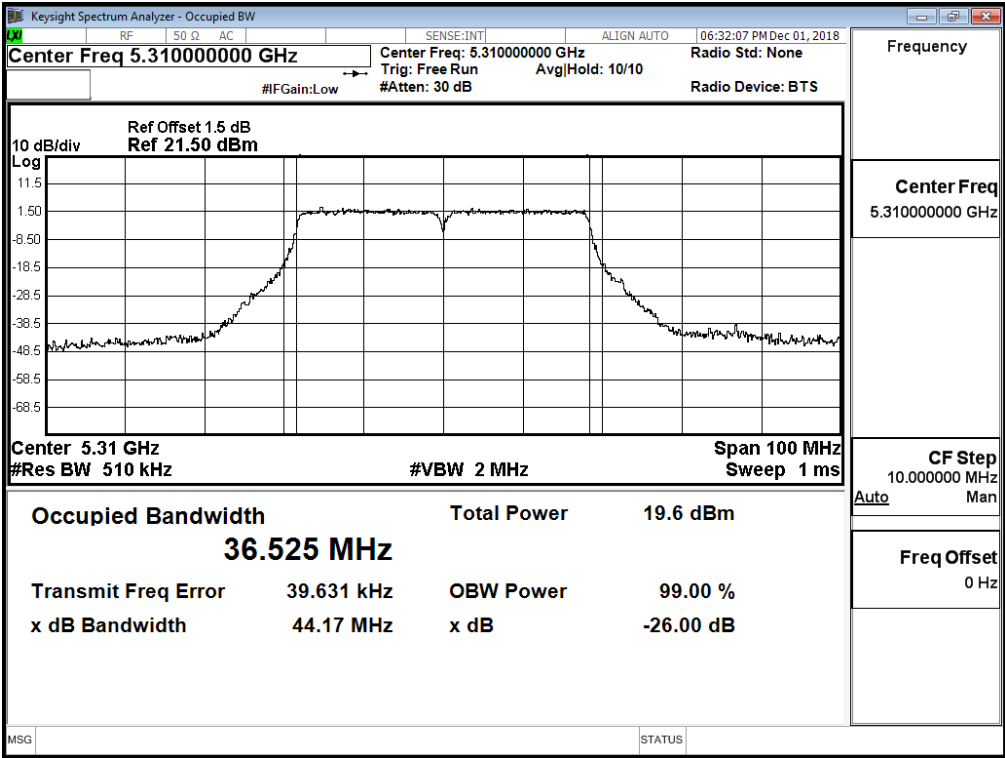
1. Power Output Value = Reading value on average power meter + cable loss
2. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
3. 99% Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

99% Occupied Bandwidth:

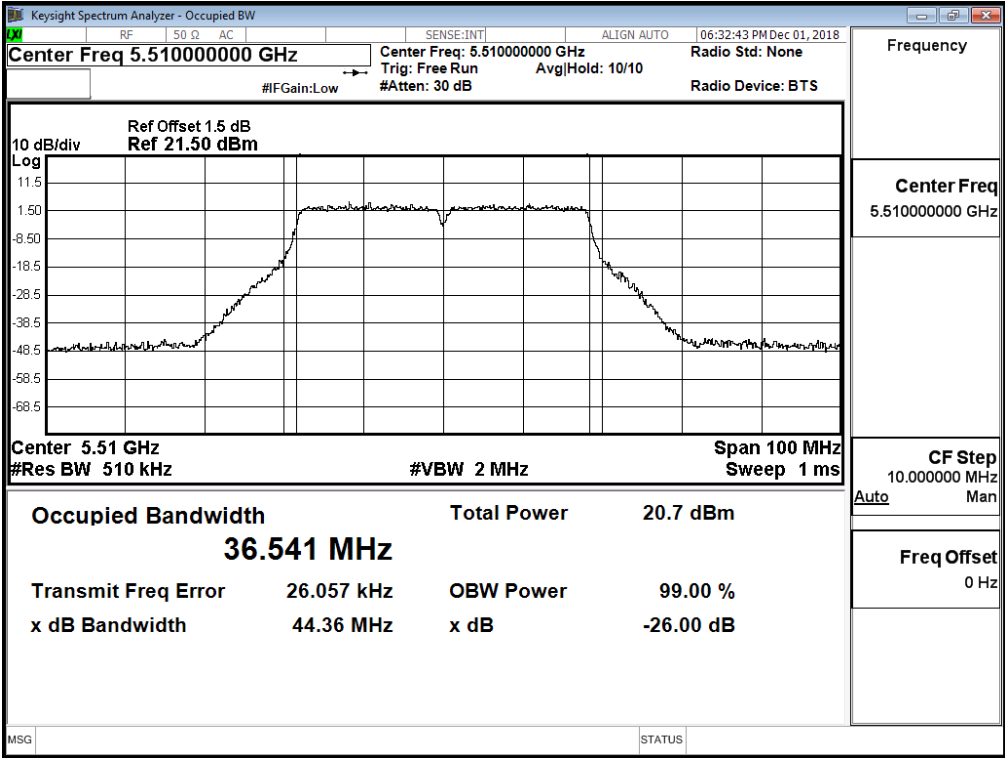
Channel 54 – Chain A



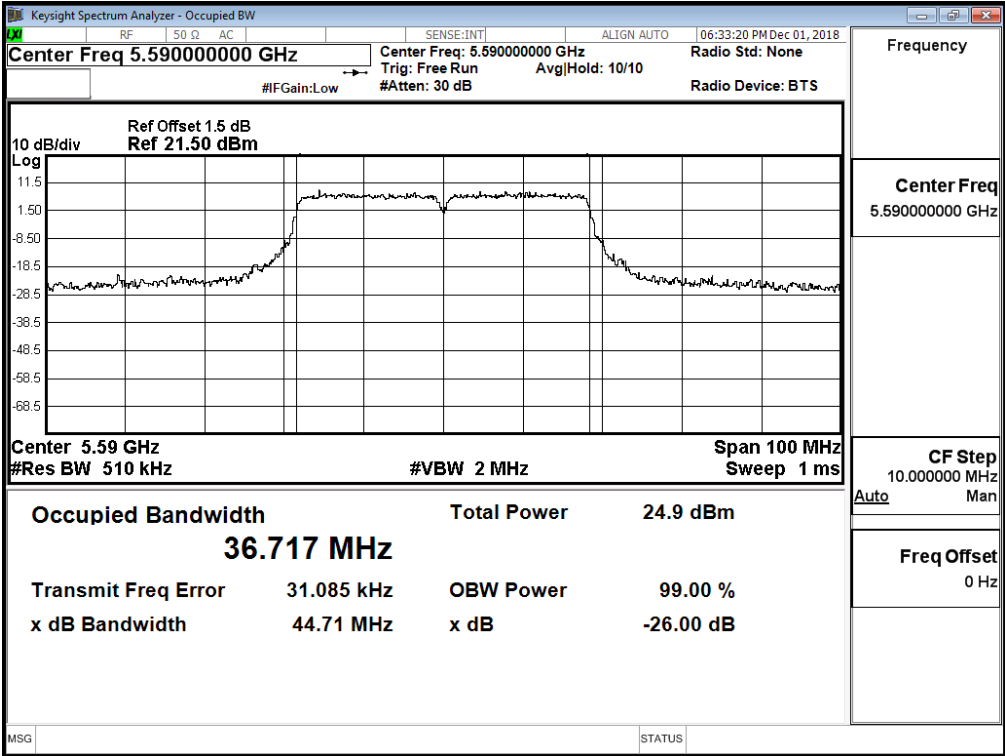
Channel 62 – Chain A



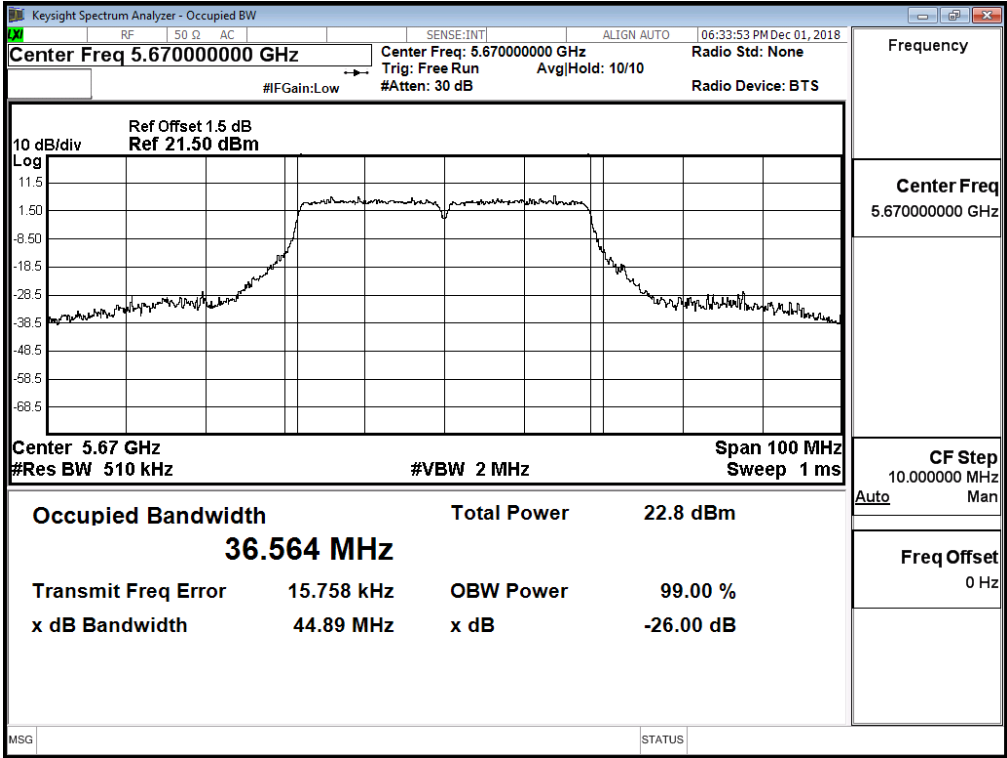
Channel 102 – Chain A



Channel 118 – Chain A

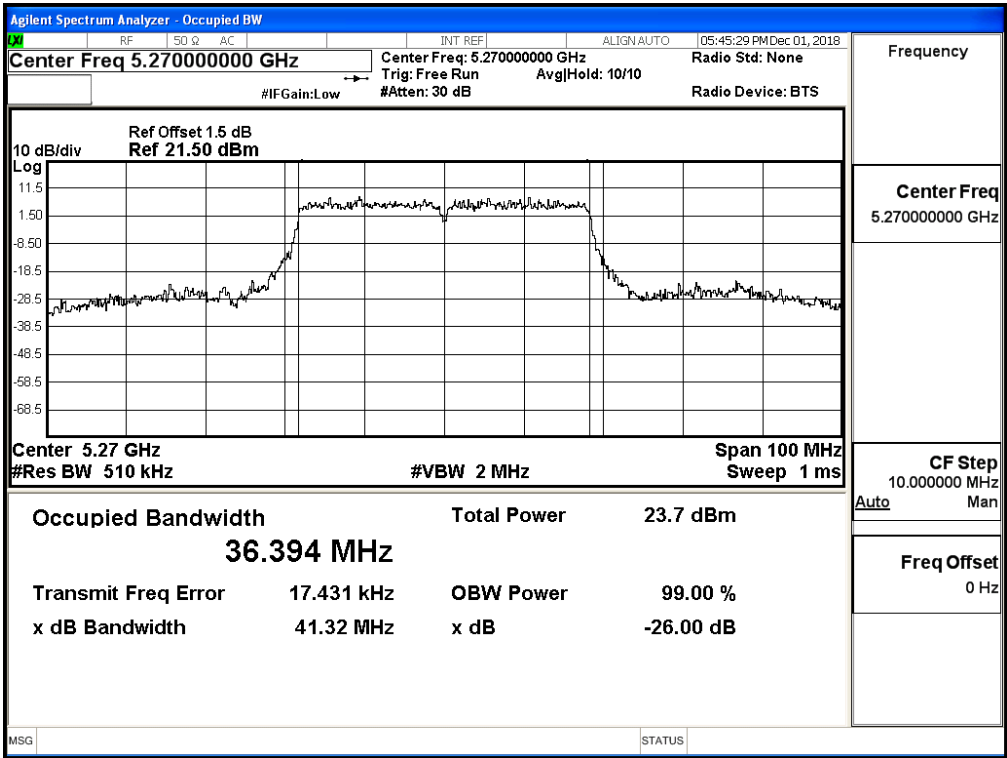


Channel 134 – Chain A

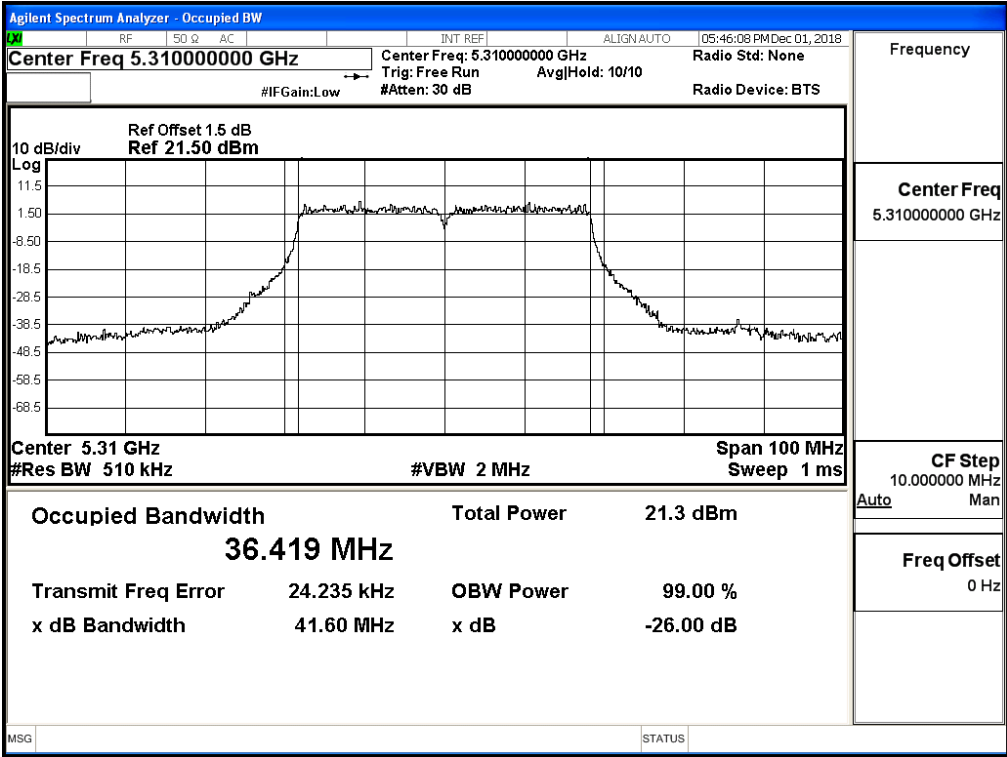


99% Occupied Bandwidth:

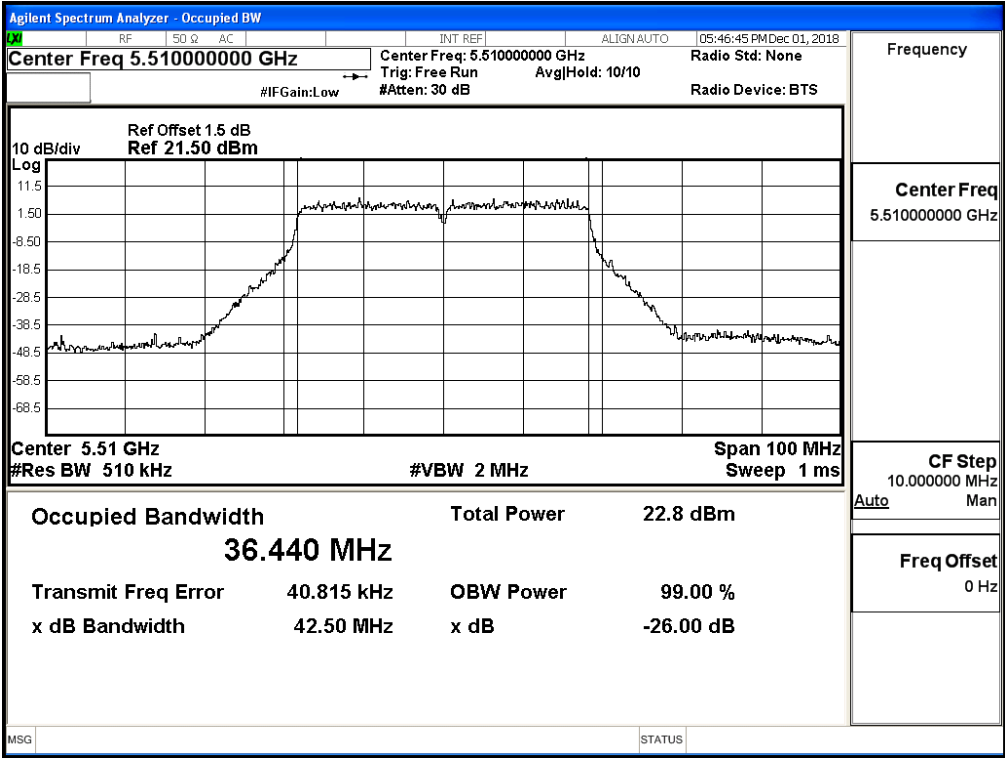
Channel 54 – Chain B



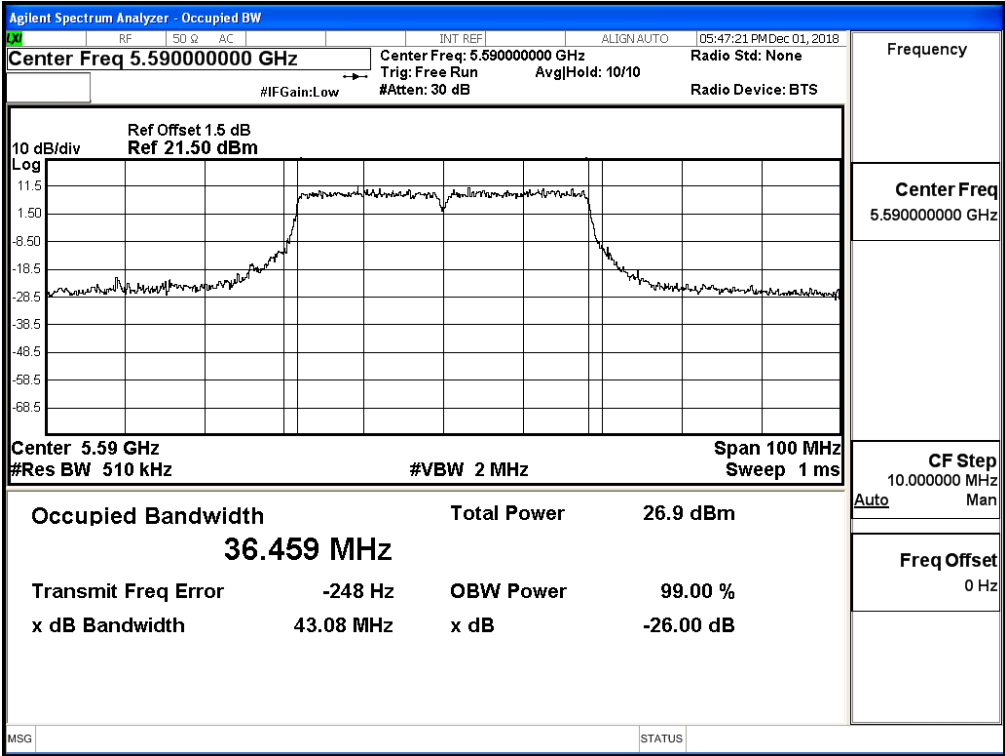
Channel 62 – Chain B



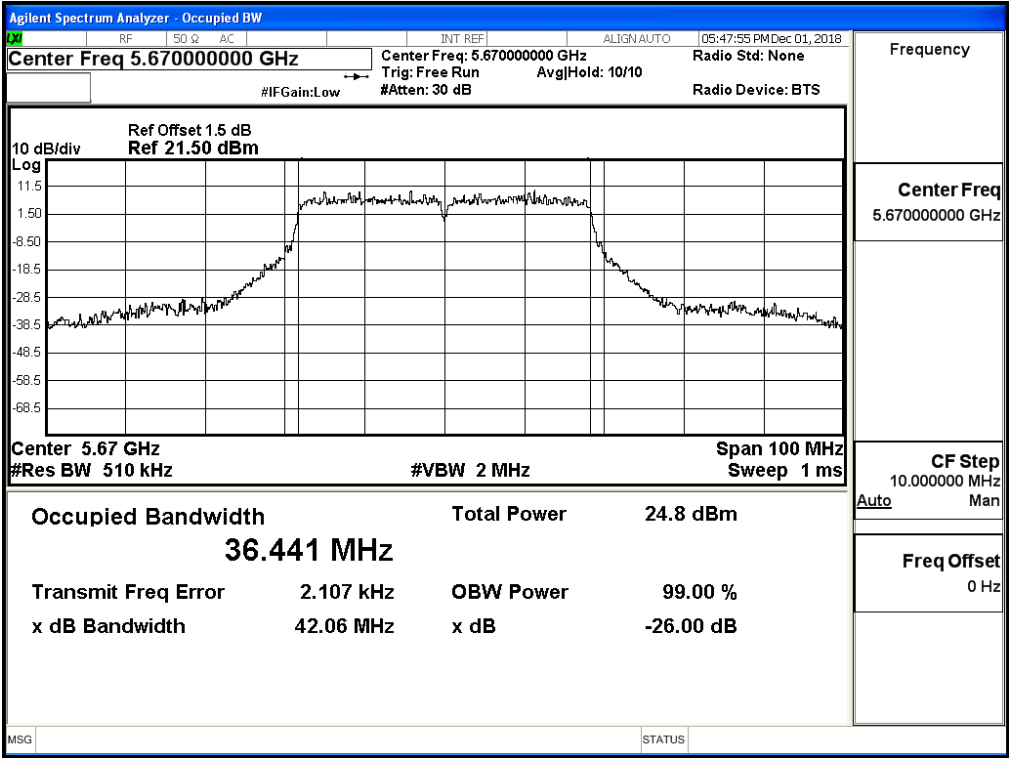
Channel 102 – Chain B



Channel 118 – Chain B



Channel 134 – Chain B



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 3 MIMO: Transmit (802.11ac-20BW-14.4Mbps)

Chain A

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.23	19.11	19.04	18.96	18.88	18.80	18.69	18.60	18.51	<24dBm
144 (Band4)	5720	12.97	12.90	12.82	12.64	12.48	12.41	12.33	12.27	12.20	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power									
Channel No.	Frequency (MHz)	Data Rate (Mbps)									Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	
		Measurement Level (dBm)									
144 (Band3)	5720	19.15	18.99	18.85	18.77	18.63	18.52	18.43	18.34	18.21	<24dBm
144 (Band4)	5720	12.73	12.61	12.46	12.38	12.32	12.16	12.05	11.93	11.81	<30dBm

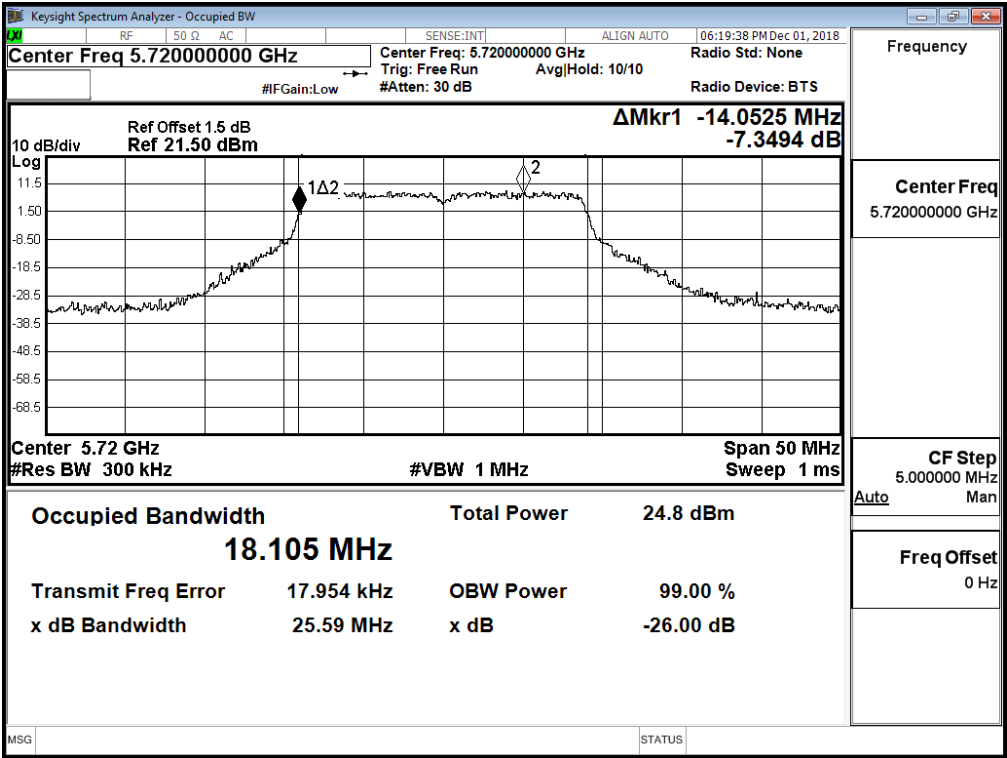
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

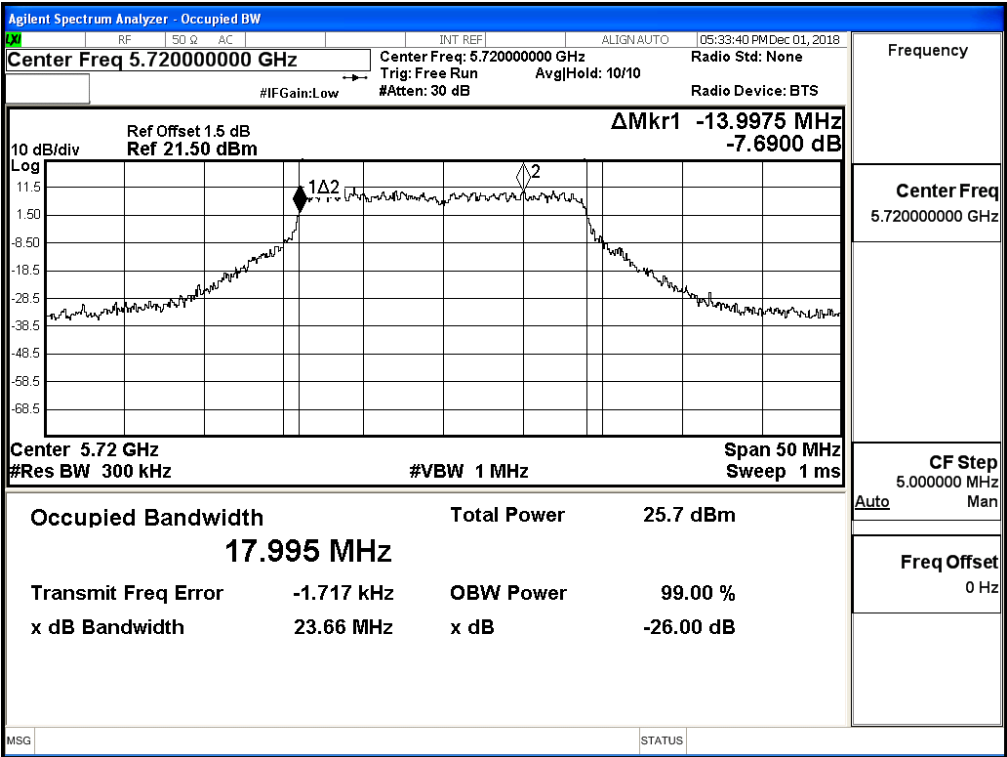
Channel No	Frequency Range (MHz)	99% Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit		Result
						(dBm)	dBm+10log(BW)	
144(Band3)	5720	13.998	19.23	19.15	22.20	24	22.46	Pass
144(Band4)	5720	--	12.97	12.73	15.86	30	--	Pass

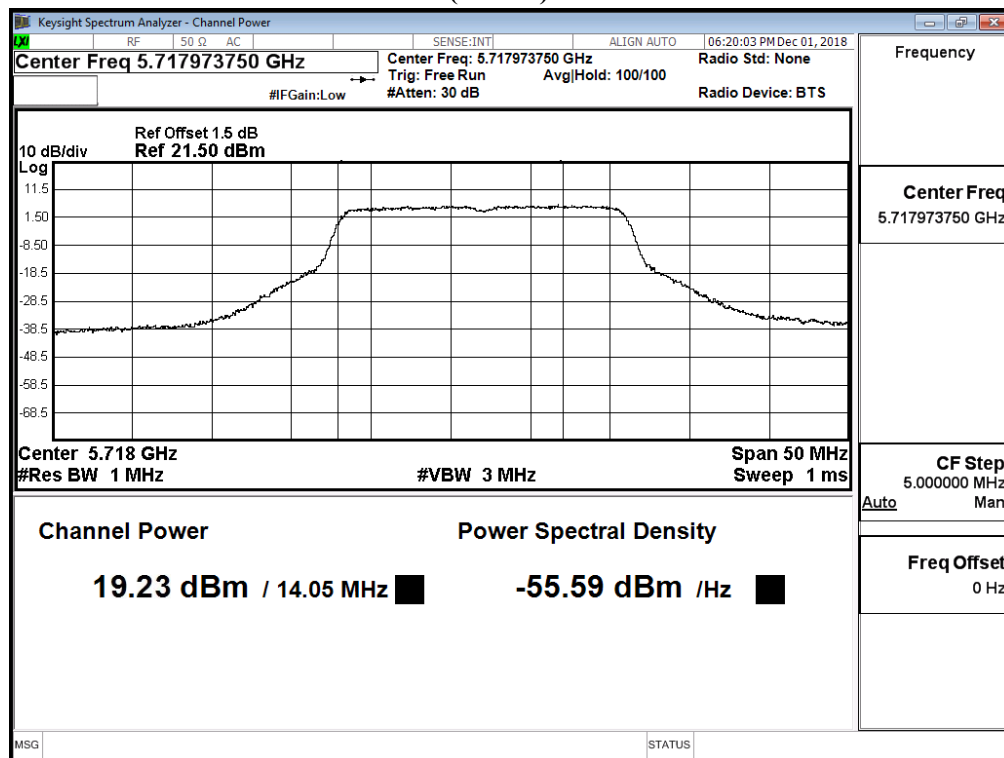
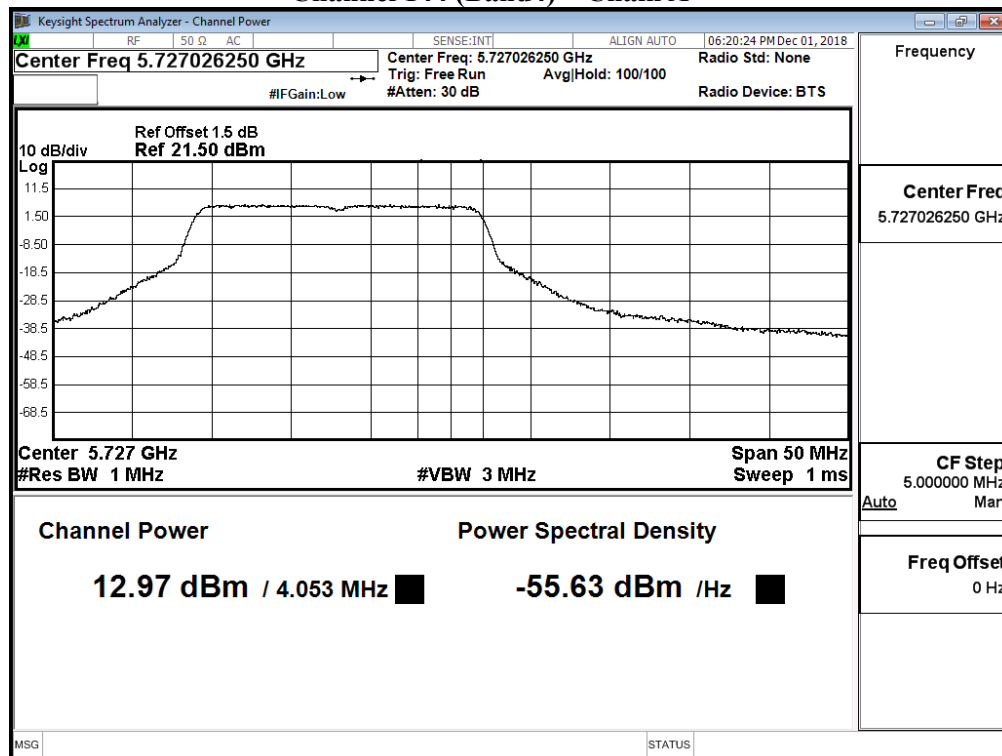
Note: Power Output Value =Reading value on average power meter + cable loss

99% Occupied Bandwidth:
Channel 144 – Chain A

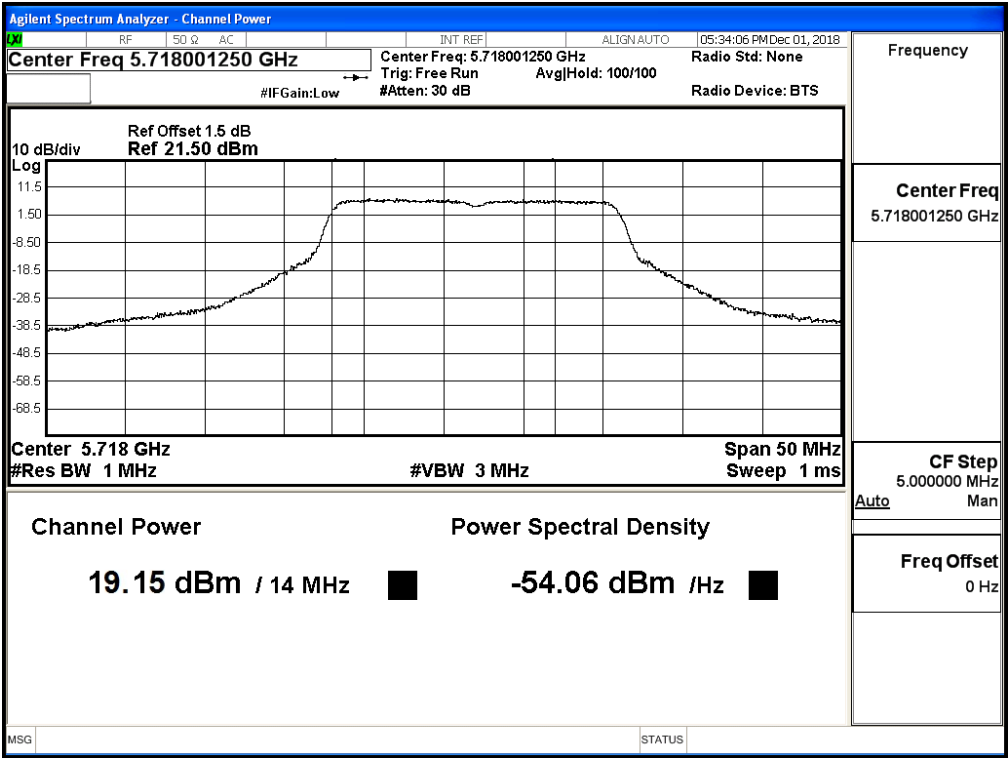


26dBc Occupied Bandwidth:
Channel 144 – Chain B

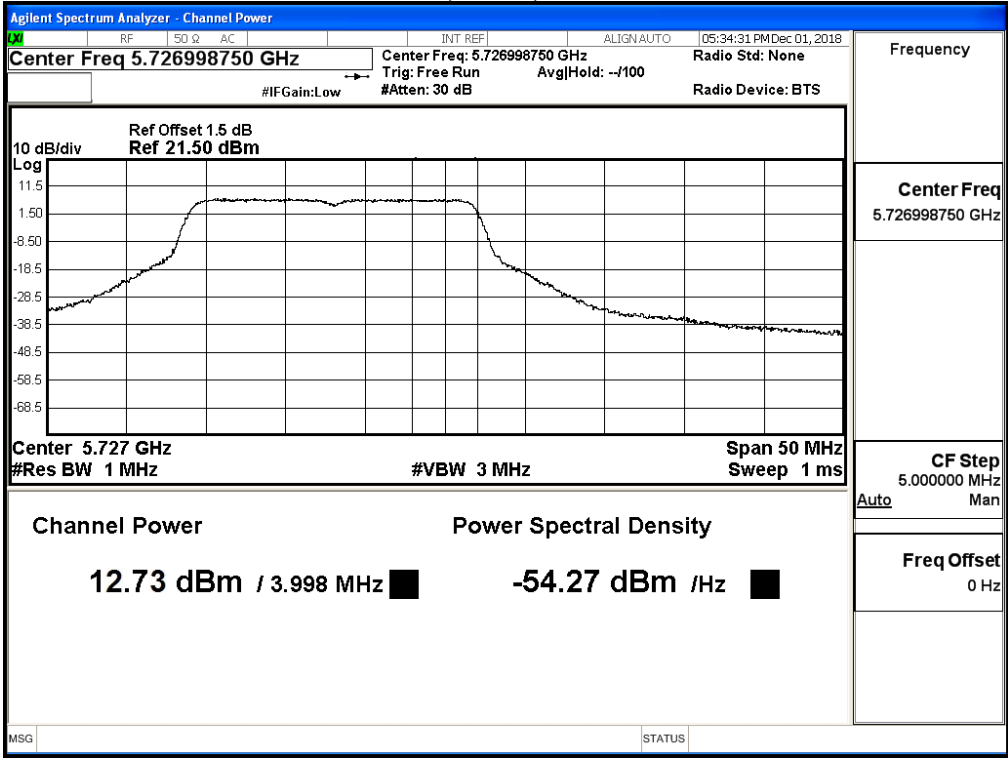


Maximum conducted output power:**Channel 144 (Band3) – Chain A****Channel 144 (Band4) – Chain A**

Maximum conducted output power:
Channel 144 (Band3) – Chain B



Channel 144 (Band4) – Chain B



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 3 MIMO: Transmit (802.11ac-40BW-30Mbps)

Chain A

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.37	19.26	19.09	18.98	18.80	18.67	18.60	18.43	18.25	18.09	<24dBm
142F(Band4)	5710	9.59	9.43	9.25	9.18	9.12	8.98	8.83	8.77	8.62	8.55	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
142F(Band3)	5710	19.62	19.44	19.31	19.22	19.05	18.88	18.82	18.71	18.64	18.53	<24dBm
142F(Band4)	5710	9.77	9.60	9.50	9.40	9.28	9.10	9.03	8.97	8.91	8.84	<30dBm

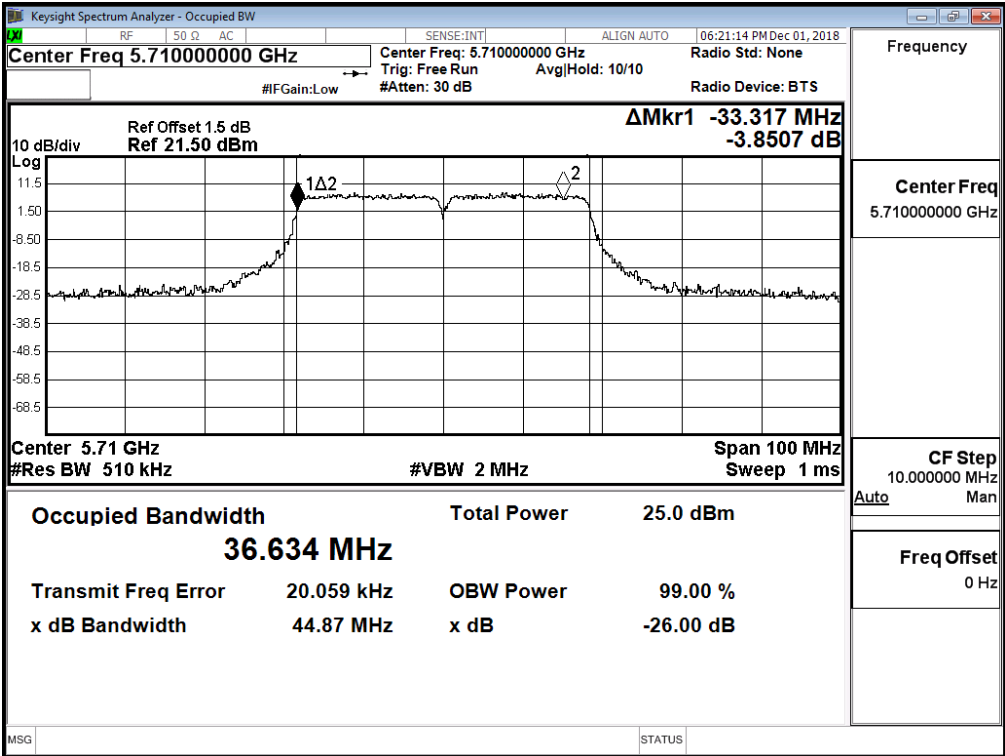
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

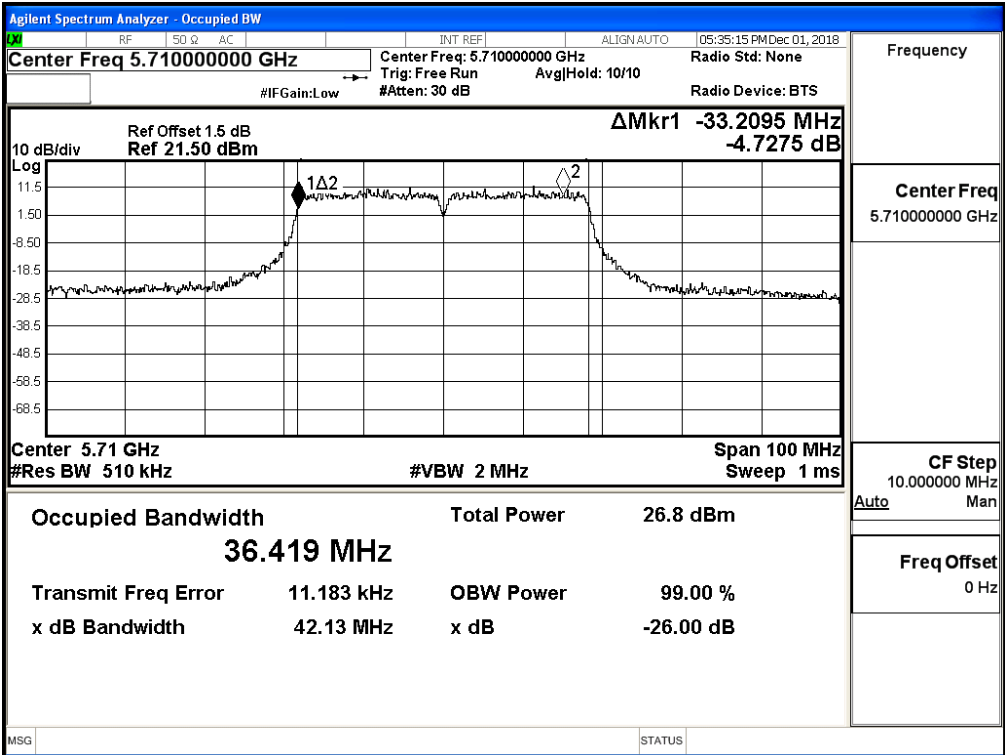
Channel No	Frequency Range	99% Bandwidth	Chain A Power	Chain B Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.210	19.37	19.62	22.51	24	26.21	Pass
142F(Band4)	5710	--	9.59	9.77	12.69	30	--	Pass

Note: Power Output Value =Reading value on average power meter + cable loss

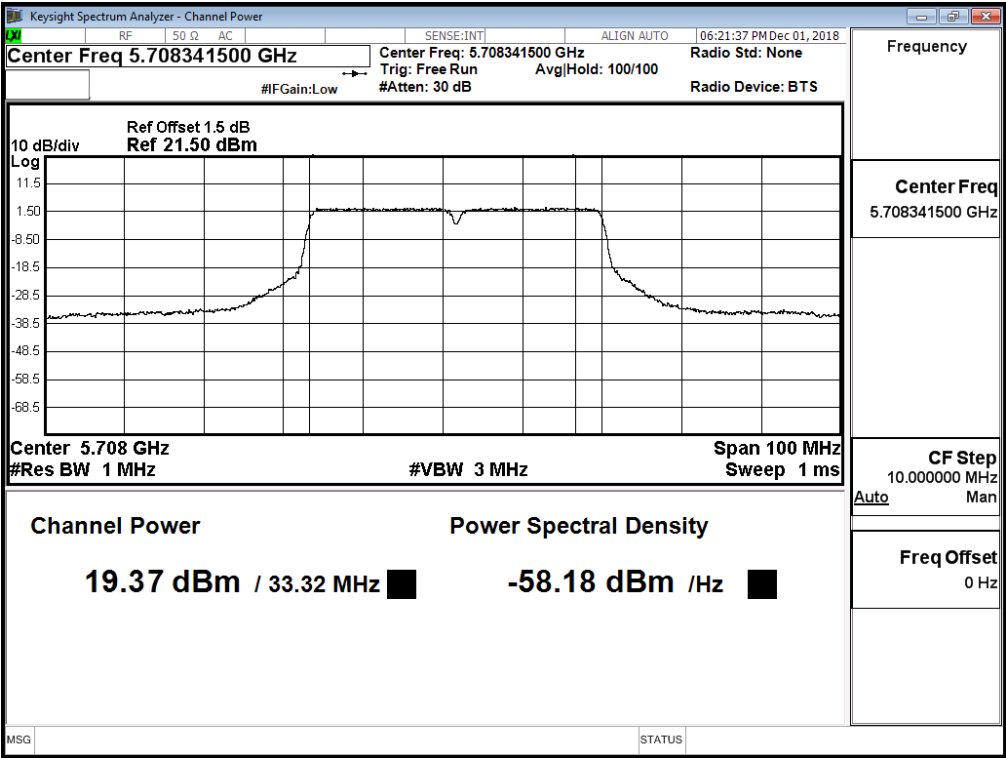
99% Occupied Bandwidth:
Channel 142 – Chain A



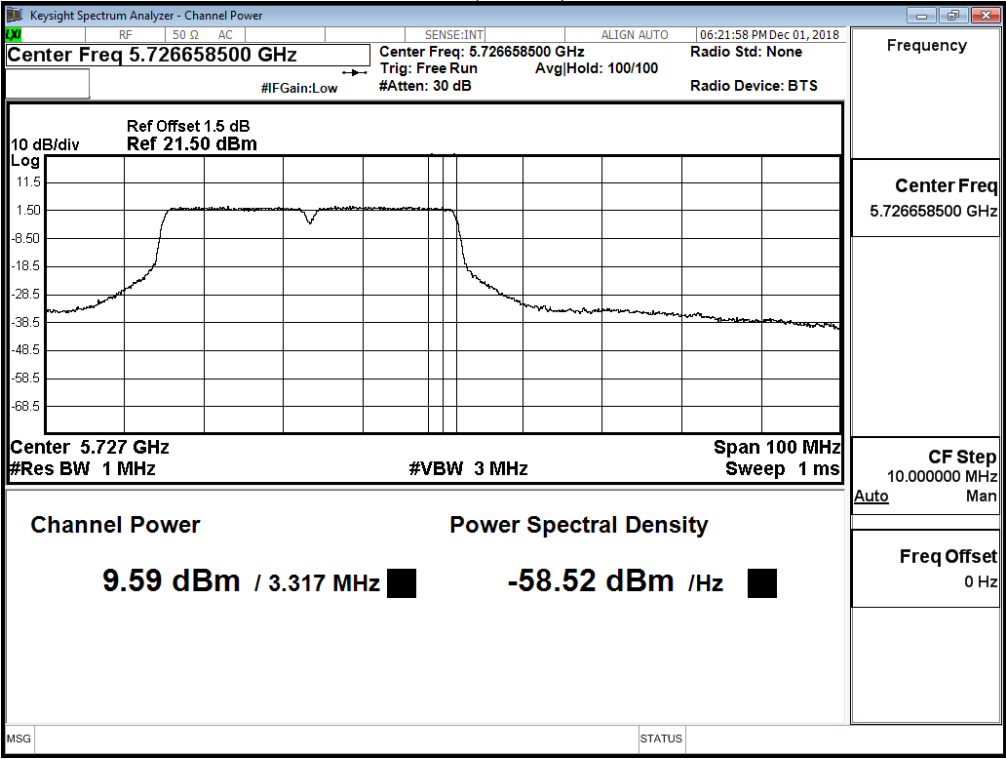
26dBc Occupied Bandwidth:
Channel 142 – Chain B



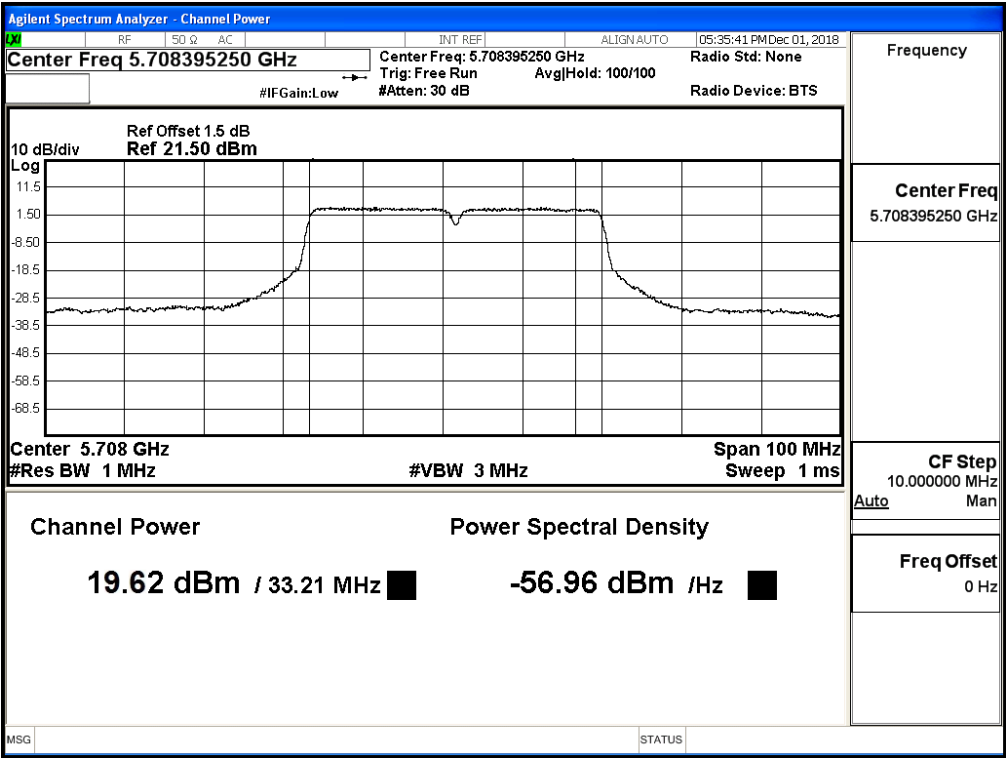
Maximum conducted output power:
Channel 142 (Band3) – Chain A



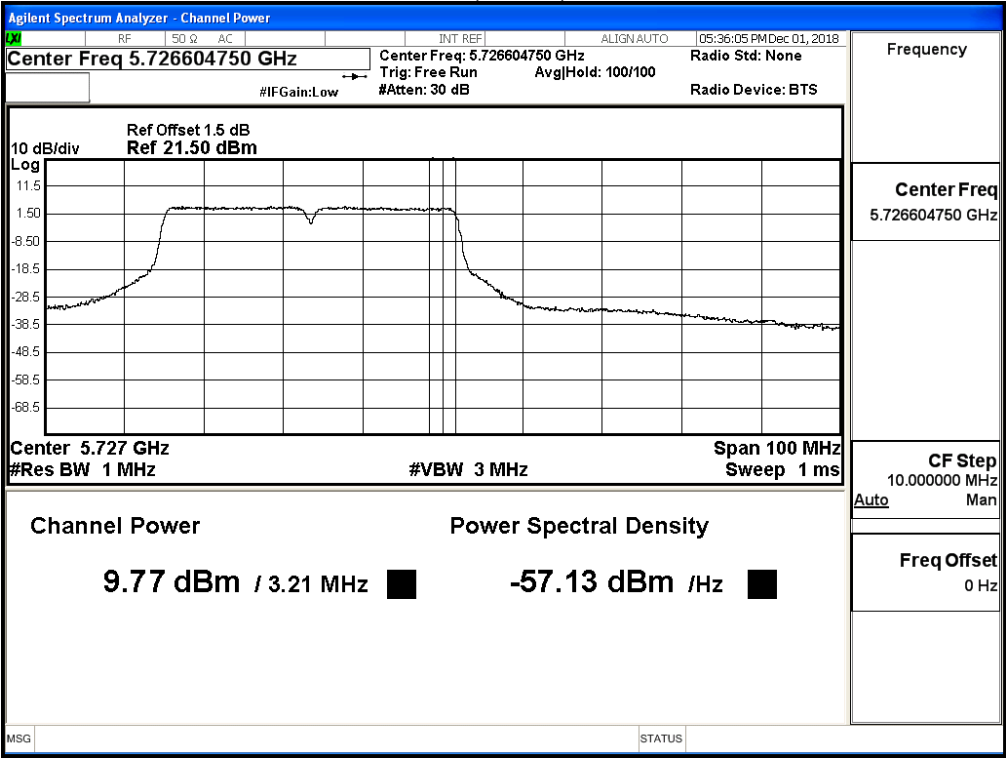
Channel 142 (Band4) – Chain A



Maximum conducted output power:
Channel 142 (Band3) – Chain B



Channel 142 (Band4) – Chain B



Product : Intel® Wireless-AC 9560
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 Test Date : 2018/11/23
 Test Mode : Mode 3 MIMO: Transmit (802.11ac-80BW-65Mbps)

Chain A

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	14.83	14.73	14.63	14.45	14.30	14.23	14.09	13.92	13.84	13.72	<24dBm
58	5290	12.26	12.14	11.99	11.87	11.72	11.61	11.51	11.44	11.34	11.23	<24dBm
106	5530	14.68	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	19.00	18.87	18.81	18.63	18.48	18.31	18.15	18.03	17.90	17.76	<24dBm
138(Band3)	5690	19.55	19.42	19.29	19.14	19.02	18.96	18.87	18.72	18.63	18.52	<24dBm
138(Band4)	5690	3.72	3.62	3.45	3.28	3.11	2.95	2.79	2.64	2.54	2.40	<30dBm
155	5775	17.74	17.61	17.55	17.46	17.37	17.20	17.10	16.93	16.83	16.70	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Chain B

Cable loss=1dB		Average Power										
Channel No	Frequency (MHz)	Data Rate (Mbps)										Required Limit
		VTH0	VTH1	VTH2	VTH3	VTH4	VTH5	VTH6	VTH7	VTH8	VTH9	
42	5210	12.89	12.77	12.69	12.52	12.43	12.37	12.31	12.24	12.07	11.95	<24dBm
58	5290	11.83	11.65	11.47	11.41	11.32	11.25	11.11	10.98	10.82	10.74	<24dBm
106	5530	14.71	--	--	--	--	--	--	--	--	--	<24dBm
122	5610	19.93	19.83	19.71	19.62	19.51	19.39	19.33	19.24	19.15	18.99	<24dBm
138(Band3)	5690	20.02	19.92	19.75	19.65	19.47	19.41	19.34	19.18	19.05	18.97	<24dBm
138(Band4)	5690	3.68	3.57	3.50	3.35	3.22	3.16	3.07	3.01	2.92	2.81	<30dBm
155	5775	17.62	17.53	17.47	17.32	17.17	17.06	16.98	16.86	16.76	16.63	<30dBm

Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

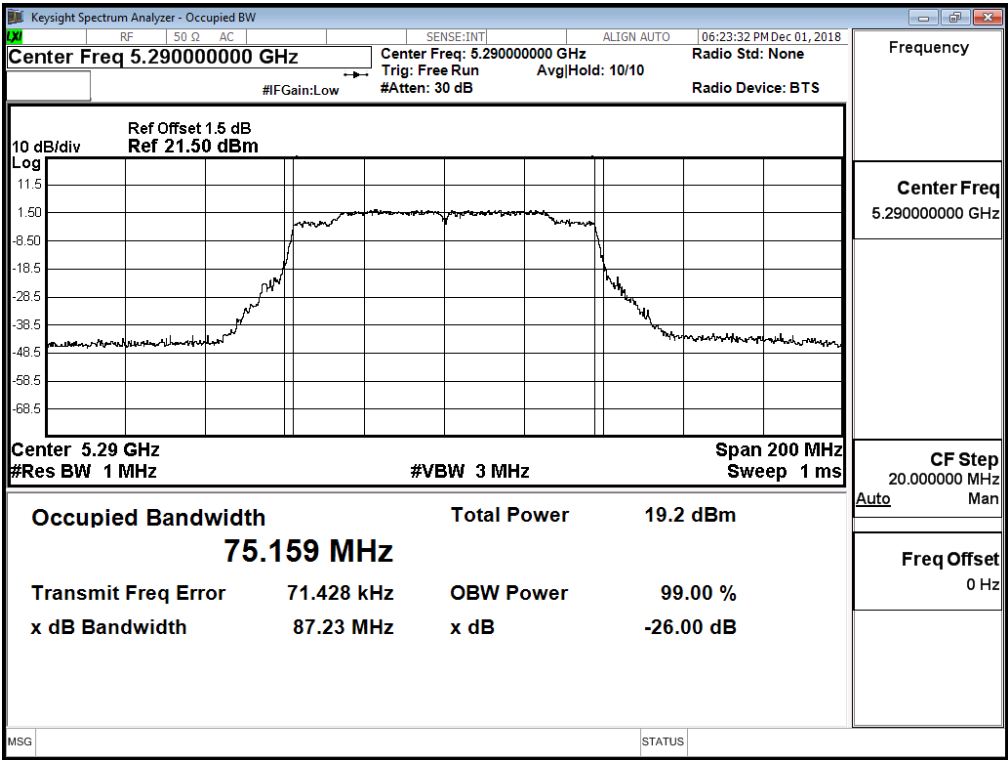
Maximum conducted output power Measurement:

Channel No	Frequency Range	99% Bandwidth	Chain A Power	Chain B Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	--	14.83	12.89	16.98	24	--	Pass
58	5290	75.159	12.26	11.83	15.06	24	29.76	Pass
106	5530	75.174	14.68	14.71	17.71	24	29.76	Pass
122	5610	75.184	19.00	19.93	22.50	24	29.76	Pass
138	5690	72.659	19.55	20.02	22.80	24	29.61	Pass
138ac80(Band4)	5690	--	3.72	3.68	6.71	30	--	Pass
155	5775	--	17.74	17.62	20.69	30	--	Pass

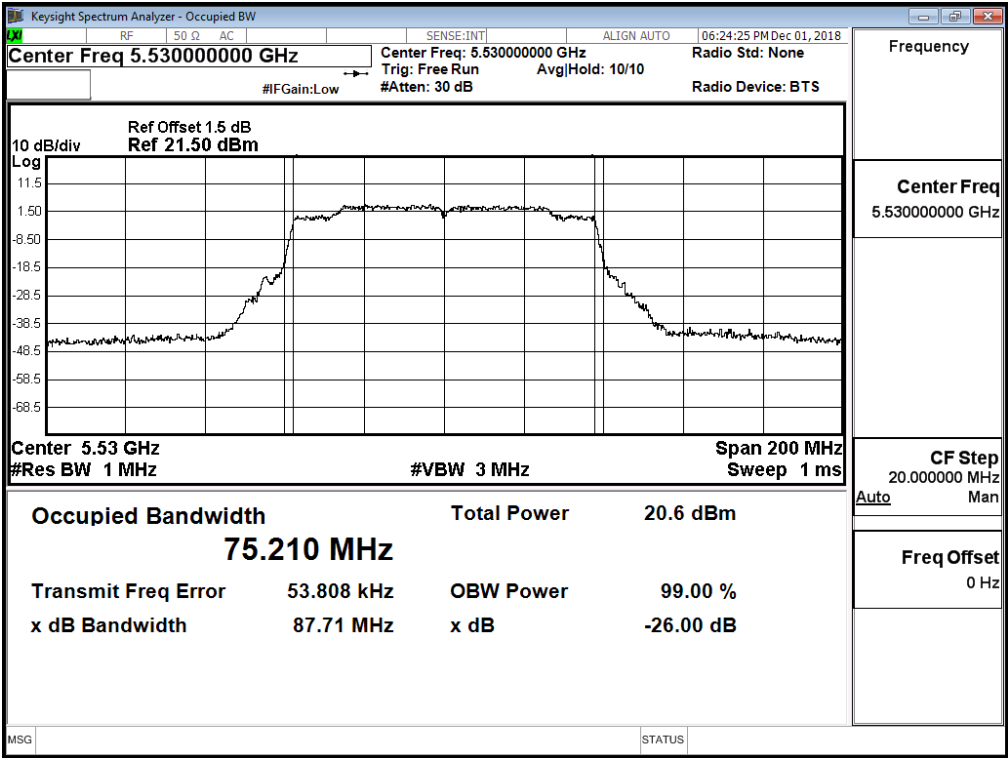
Note: Power Output Value = Reading value on average power meter + cable loss

99% Occupied Bandwidth:

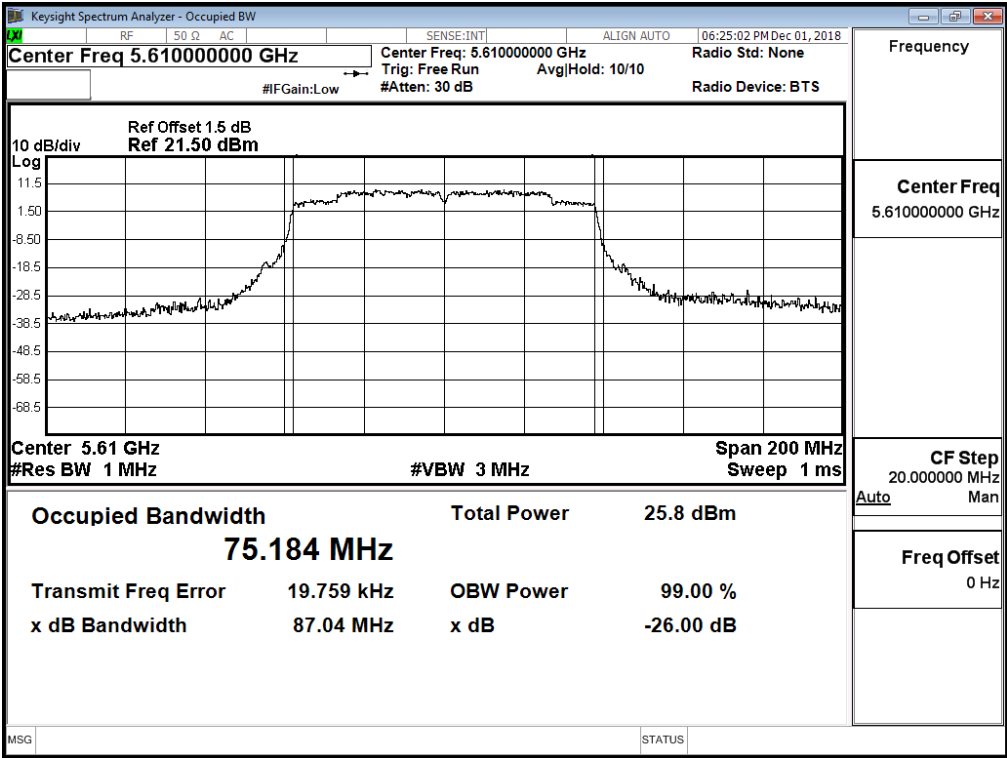
Channel 58 – Chain A



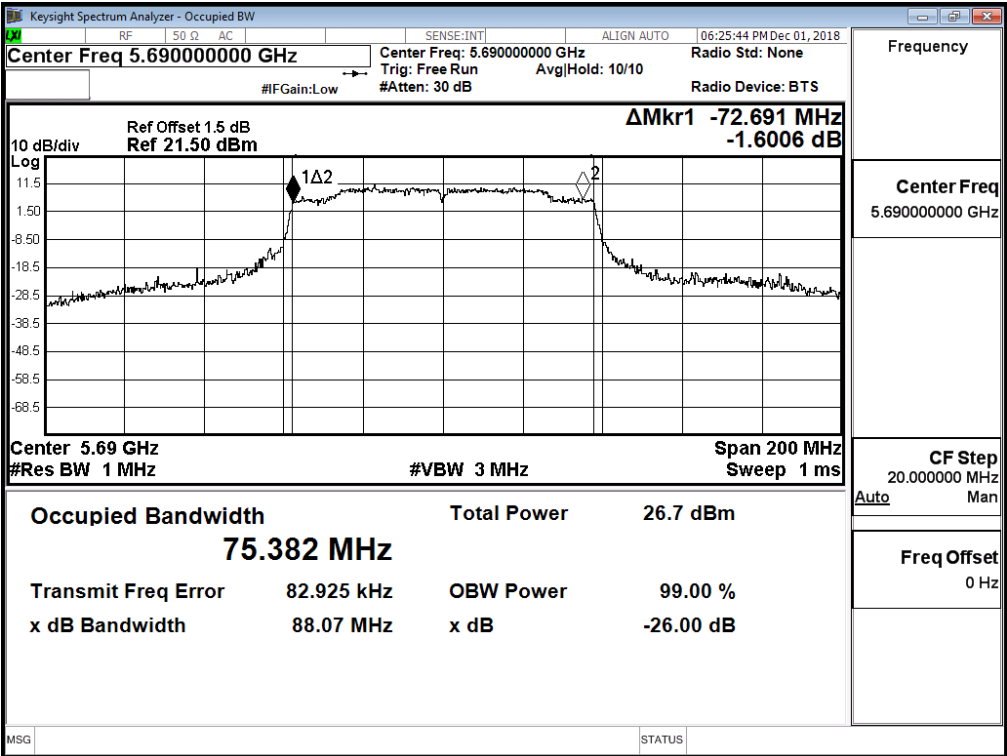
Channel 106 – Chain A



Channel 122 – Chain A

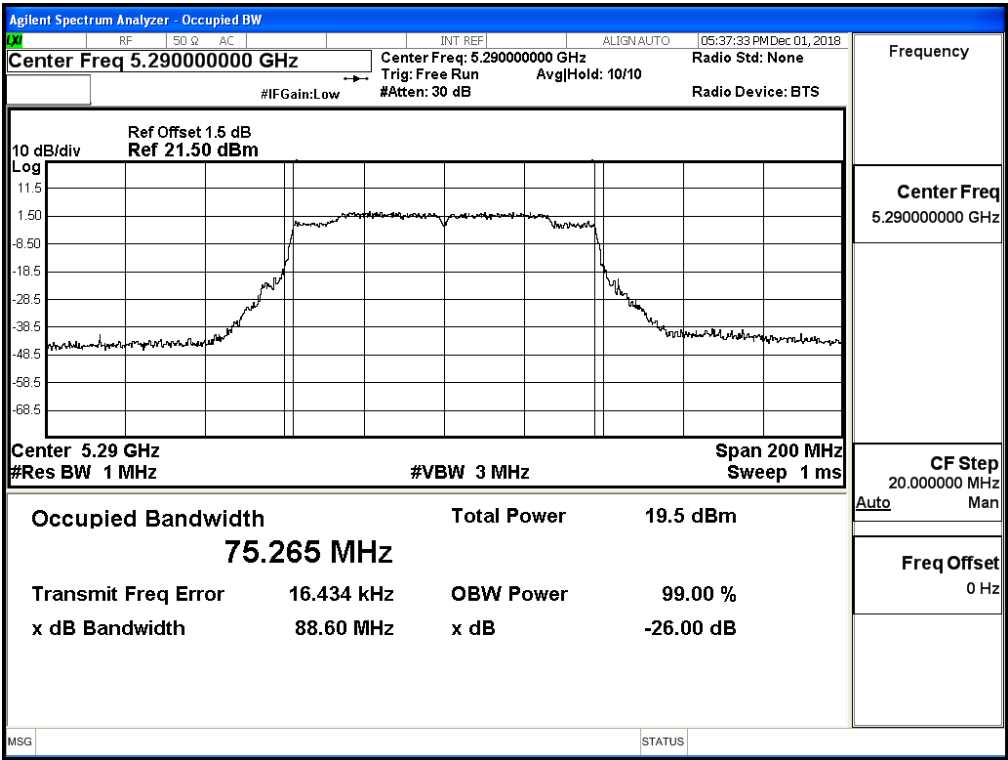


Channel 138 – Chain A

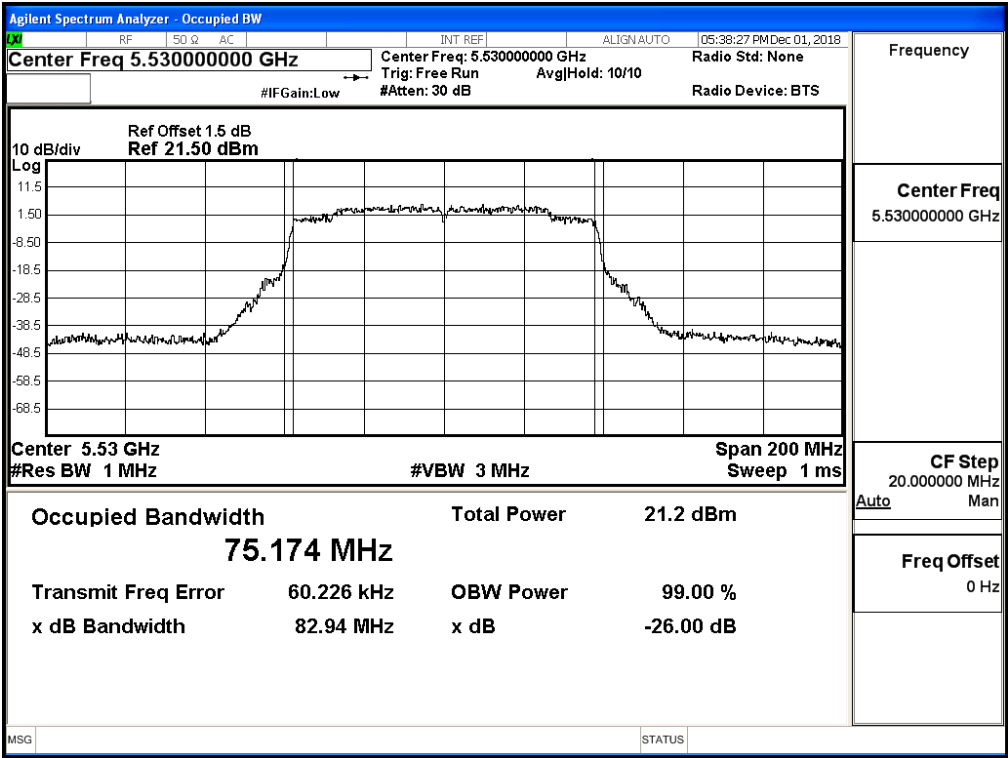


99% Occupied Bandwidth:

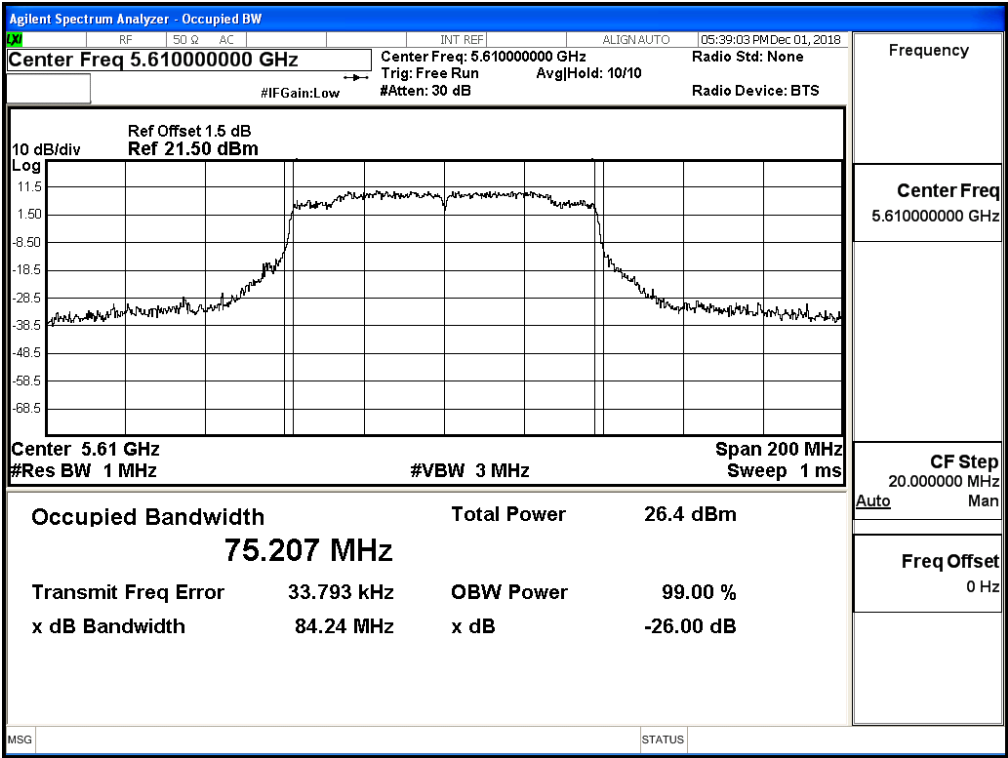
Channel 58 – Chain B



Channel 106 – Chain B



Channel 122 – Chain B



Channel 138 – Chain B

