

FCC Test Report (Class II Permissive Change)

Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Model No	7265NGW
FCC ID	MSQ7265NG

Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	Sep. 26, 2015
Issued Date	Nov. 03, 2015
Report No.	15A0003R-RFUSP06V00
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: Nov. 03, 2015

Report No.: 15A0003R-RFUSP06V00



Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Applicant	ASUSTeK COMPUTER INC.
Address	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	Intel Mobile Communications
Model No.	7265NGW
FCC ID.	MSQ7265NG
EUT Rated Voltage	DC 3.3V (via Mini-PCI Express slot)
EUT Test Voltage	AC 120V/60Hz
Trade Name	Intel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart E: 2013 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 789033 D01 General UNII Test Procedures v01r04
Test Result	Complied

Documented By

:

Jinn Chen

(Senior Adm. Specialist / Jinn Chen)

Tested By

:

Jack Hsu

(Engineer / Jack Hsu)

Approved By

:

Vincent Lin

(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	INTEL DUAL BAND WIRELESS-AC 7265
Trade Name	Intel
FCC ID.	MSQ7265NG
Model No.	7265NGW
Frequency Range	802.11a/n-20MHz: 5180-5320MHz, 5500-5700MHz 802.11n-40MHz: 5190-5310, 5510-5670MHz 802.11ac-20MHz: 5720, 802.11ac-40MHz: 5710 802.11ac-80MHz: 5210-5290MHz, 5530-5690MHz
Number of Channels	802.11a/n-20MHz: 19; 802.11n-40MHz: 9 802.11ac-20MHz: 1, 802.11ac-40MHz: 1, 802.11ac-80MHz: 5
Data Rate	802.11a: 6 - 54Mbps 802.11n: up to 300Mbps 802.11ac-80MHz: up to 866.7Mbps
Channel Control	Auto
Type of Modulation	802.11a/n:OFDM, BPSK, QPSK, 16QAM, 64QAM, 256QAM
Antenna type	PIFA Antenna
Antenna Gain	Refer to the table "Antenna List"
Power Adapter	MFR: ASUS, M/N: ADP-65AW A Input: AC 100-240V ~ 50/60Hz, 1.5A Output: DC 19V, 3.42A Cable out: Non-Shielded, 1.8m, with one ferrite core bonded.
Test Platform.	Brand Name: ASUS, M/N: TP301U, Q303U

Antenna List

Manufacturer	Part No.	Peak Gain
LUXSHARE	LA05RF867-1H (MAIN) LA05RF868 -1H (AUX)	-3.3dBi For 5.15~5.25GHz
		-3.3dBi For 5.25~5.35GHz
		-3.3dBi For 5.47~5.725GHz
		-0.8dBi For 5725-5850GHz
Hong Lin	260-26076 (Main) 260-26077 (Aux)	-3.3dBi For 5.15~5.25GHz
		-3.3dBi For 5.25~5.35GHz
		-3.1dBi For 5.47~5.725GHz
		-0.8dBi For 5725-5850GHz

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

2. Only the higher gain antenna was tested and recorded in this report.

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		

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						

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						

Note:

1. This device is a INTEL DUAL BAND WIRELESS–AC 7265 with a built-in 5GHz WLAN transceiver.
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. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
6. This is to request a Class II permissive change for FCC ID: MSQ7265NG, originally granted on 12/15/2015.

The major change filed under this application is:

Change #1: Additional Chassis added, ASUSTeK, model number : TP301U, Q303U notebook/tablet.

All models are listed as below

Brand	Model	Difference
ASUS	TP301U (Main test model)	All models are electrically identical, different model names are for marketing purpose.
	Q303U	

#2: Reduce the Output Power through firmware (only reduce Wi-Fi Power, Bluetooth power haven't changes).

#3: Addition two new antennas, the antenna type is the same, the antenna gain is 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 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 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)
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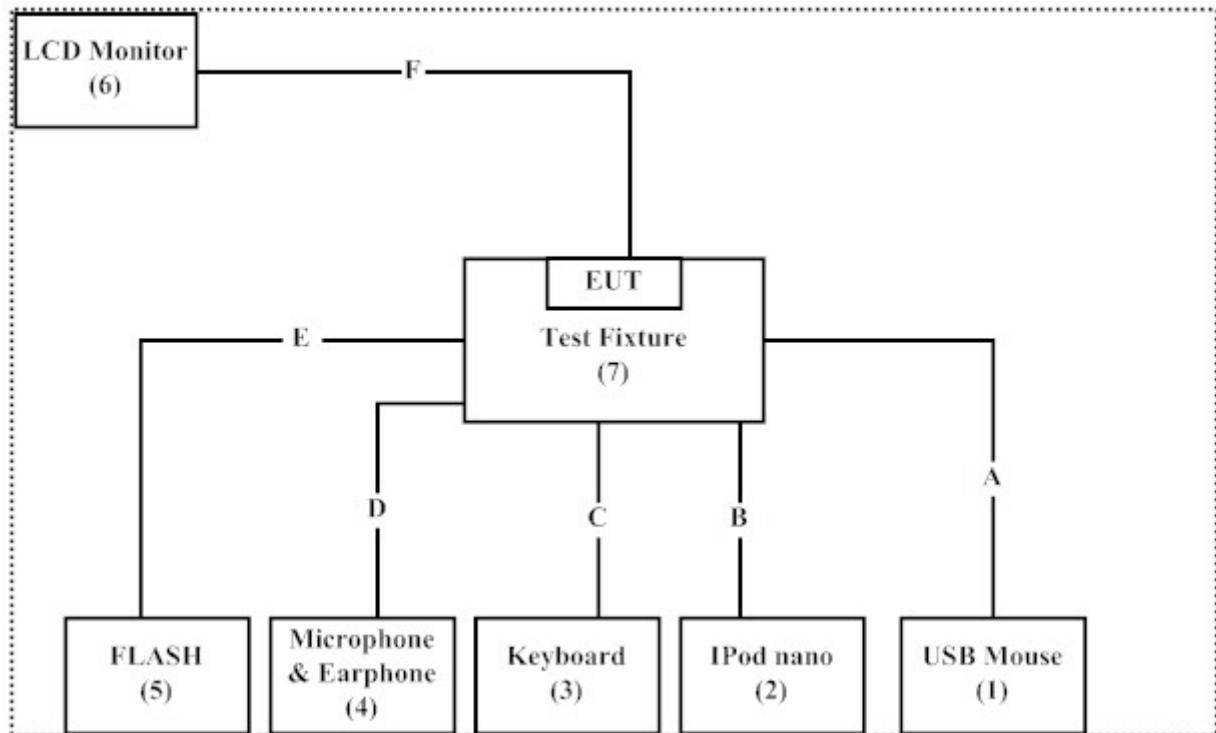
1.3. Tested System Details

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 USB Mouse	Logitech	M-BE58	HCA30103100	N/A
2 iPod nano	Apple	A1199	YM706LSCVQ5	N/A
3 Keyboard	DELL	SK-8115	MY-0DJ325-71619-6 A3-1913	N/A
4 Microphone & Earphone	PCHOME	N/A	N/A	N/A
5 FLASH	Transcend	JetFlash110	155422-2931	N/A
6 LCD Monitor	DELL	ST2320Lf	CN-0M2nn6-72872-2 2I-CA1S	Non-Shielded, 1.8m
7 Test Fixture	ASUS	N/A	N/A	N/A

Signal Cable Type	Signal cable Description
A USB Cable	Shielded, 1.8 m
B USB Cable	Shielded, 1.2 m
C USB Cable	Shielded, 1.8 m, with one ferrite core bonded.
D Microphone & Earphone Cable	Non-Shielded, 2 m
E USB Cable	Shielded, 2 m
F HDMI Cable	Non-Shielded, 1.8 m

1.4. Configuration of tested System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown on 1.4
- (2) Execute “DRTU V1.7.7 01483” 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 Quietek Corporation's Web Site : <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site : <http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Maximun conducted output power

2.1. Test Equipment

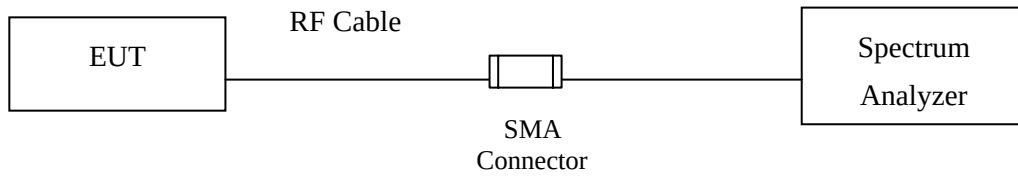
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

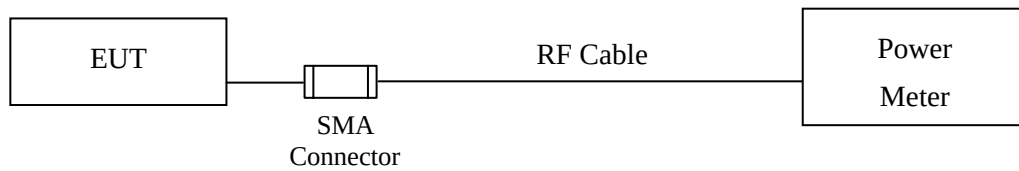
1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

2.2. Test Setup

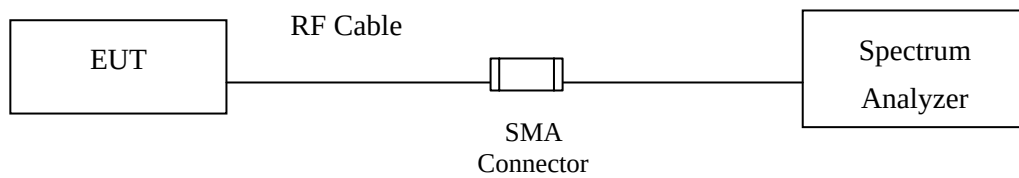
26dBc Occupied Bandwidth



Conduction Power Measurement (for 802.11an)



Conduction Power Measurement (for 802.11ac)



2.3. Limits

- (1) For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 50 mW or $4 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (2) For the band 5.25-5.35 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.825 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1W or $17 \text{ dBm} + 10\log B$, where B is the 26-dB emission bandwidth in MHz. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

2.4. 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 than 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 ($BW \leq 40\text{MHz}$) 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 ($BW=80\text{MHz}$) 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.

2.5. Uncertainty

$\pm 1.27 \text{ dB}$

2.6. Test Result of Maximum conducted output power

Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	8.35	--	--	--	--	--	--	--	<17dBm
44	5220	9.61	9.52	9.44	9.38	9.25	9.16	9.06	8.98	<17dBm
48	5240	10.41	--	--	--	--	--	--	--	<17dBm
52	5260	10.99	--	--	--	--	--	--	--	<24dBm
60	5300	11.69	11.62	11.53	11.45	11.39	11.28	11.14	11.04	<24dBm
64	5320	11.79	--	--	--	--	--	--	--	<24dBm
100	5500	9.31	--	--	--	--	--	--	--	<24dBm
120	5600	8.83	8.75	8.61	8.59	8.46	8.35	8.24	8.16	<24dBm
140	5700	8.1	--	--	--	--	--	--	--	<24dBm

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

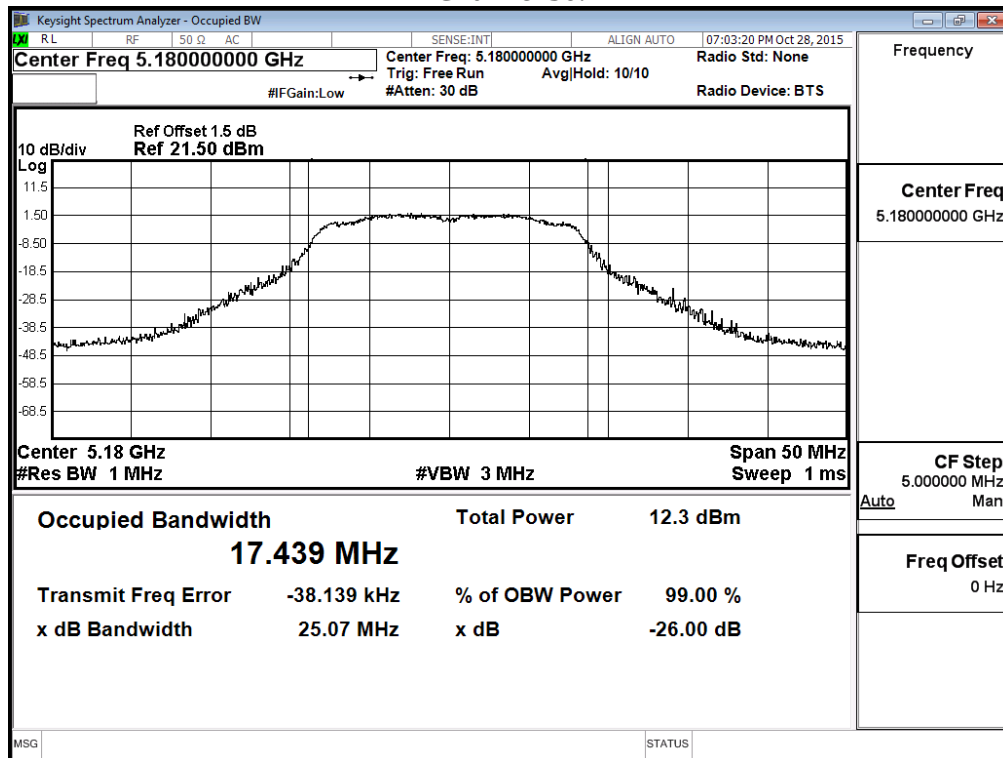
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	17.439	8.35	17	16.42
44	5220	17.449	9.61	17	16.42
48	5240	17.410	10.41	17	16.41
52	5260	17.469	10.99	24	23.42
60	5300	17.421	11.69	24	23.41
64	5320	17.435	11.79	24	23.41
100	5500	17.478	9.31	24	23.42
120	5600	14.441	8.83	24	22.60
140	5700	17.429	8.1	24	23.41

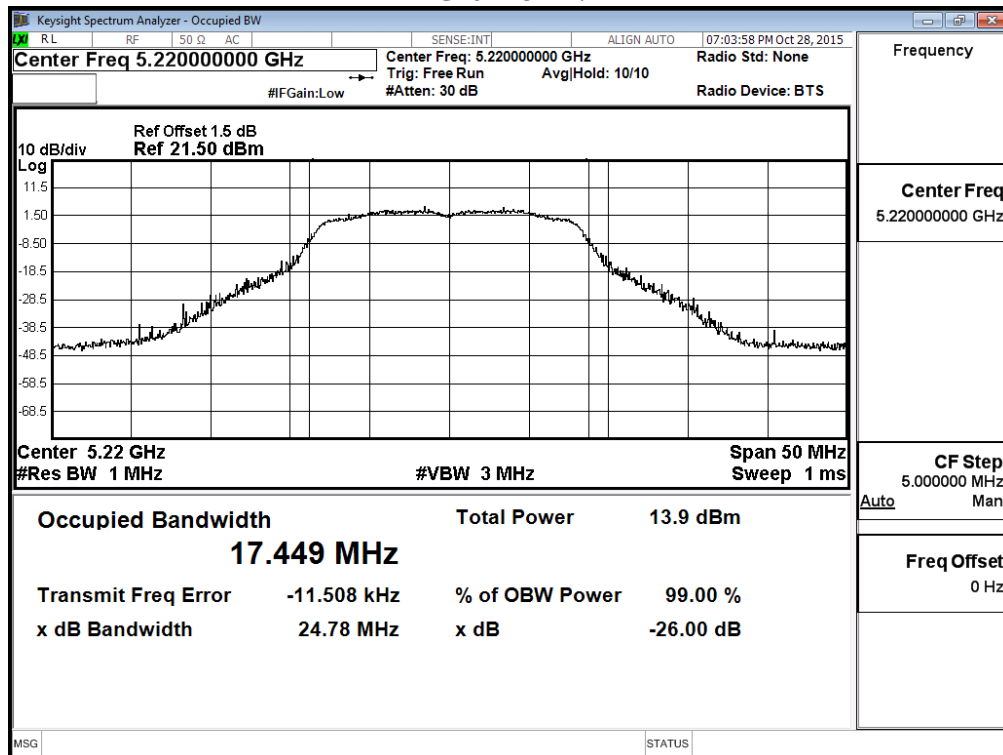
Note:

1. Power Output Value =Reading value on average power meter + cable loss
2. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

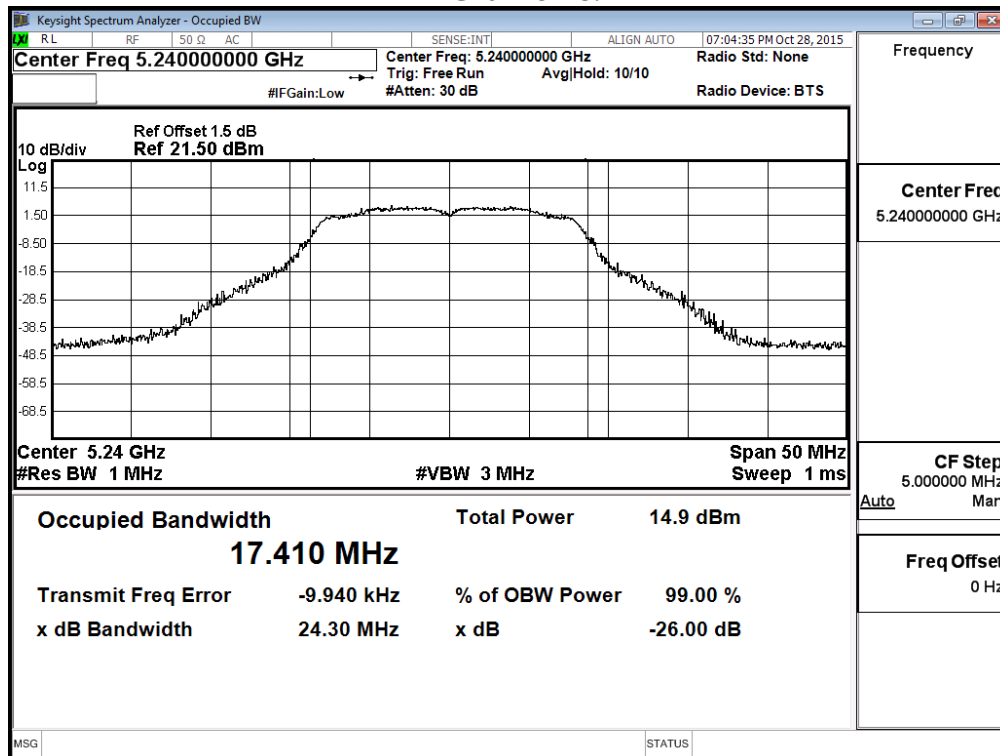
26dBc Occupied Bandwidth: Channel 36:



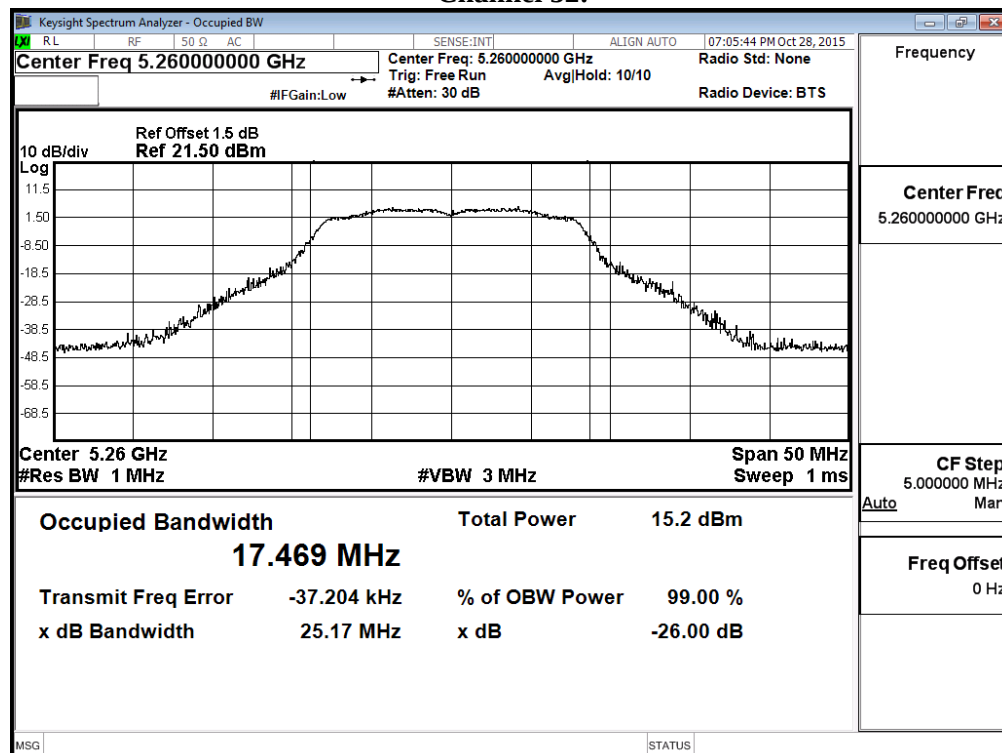
Channel 44:



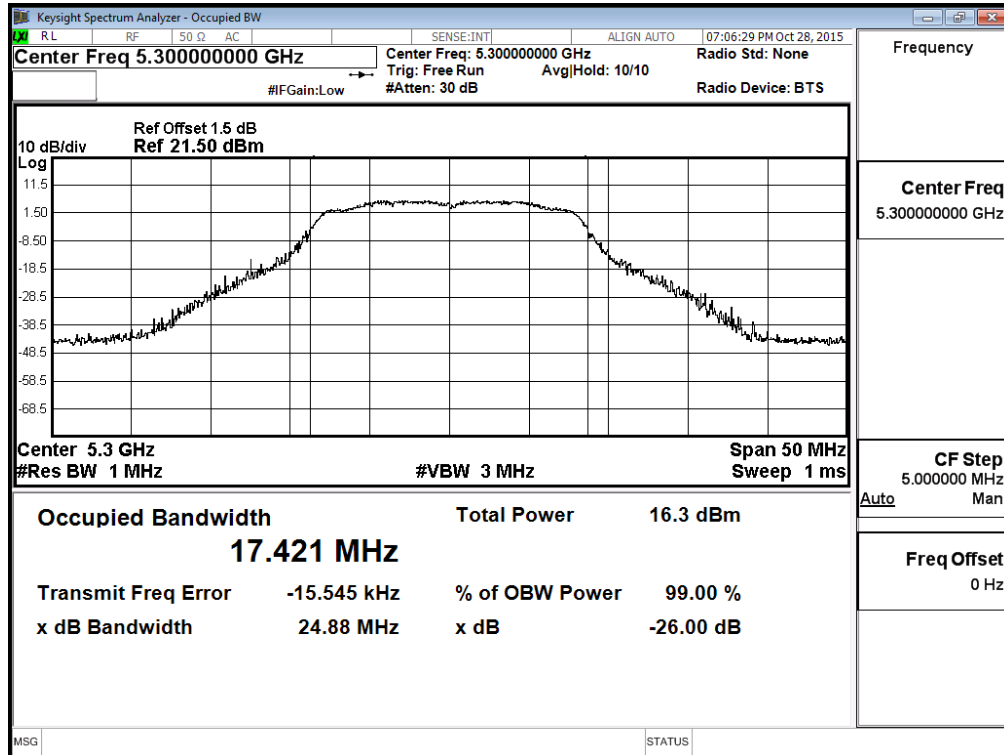
Channel 48:



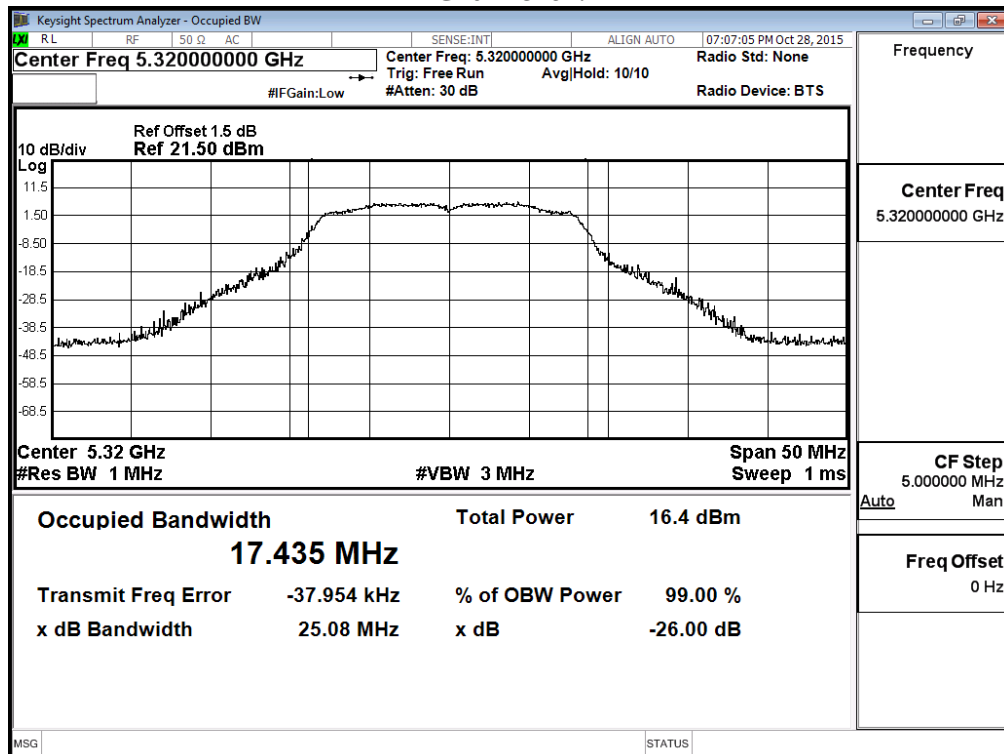
Channel 52:



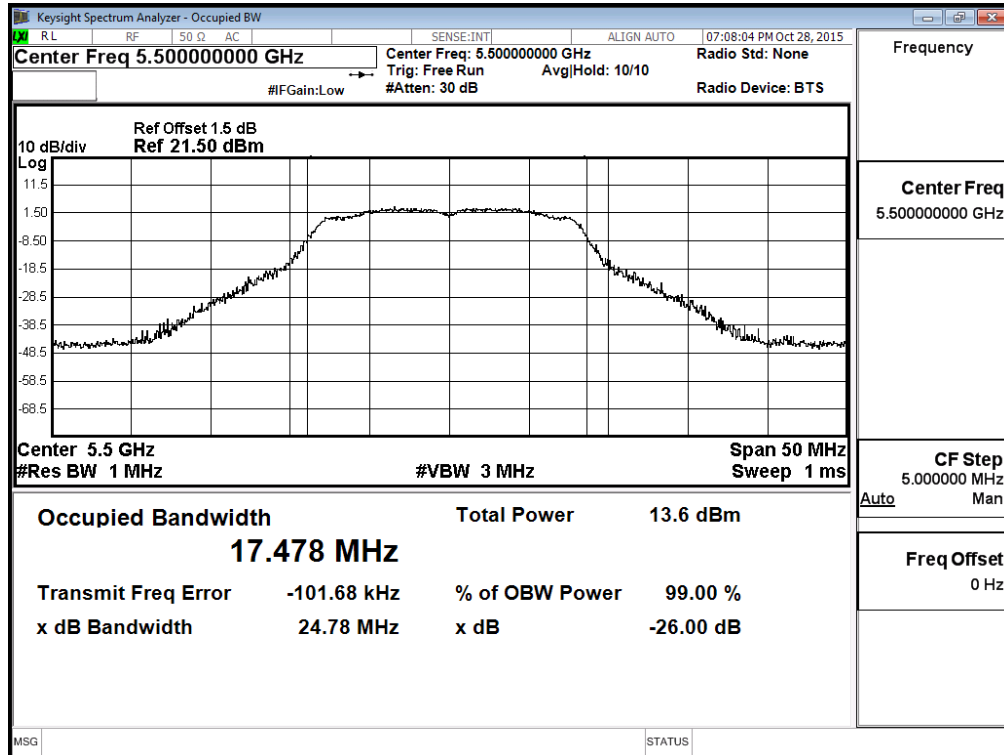
Channel 60:



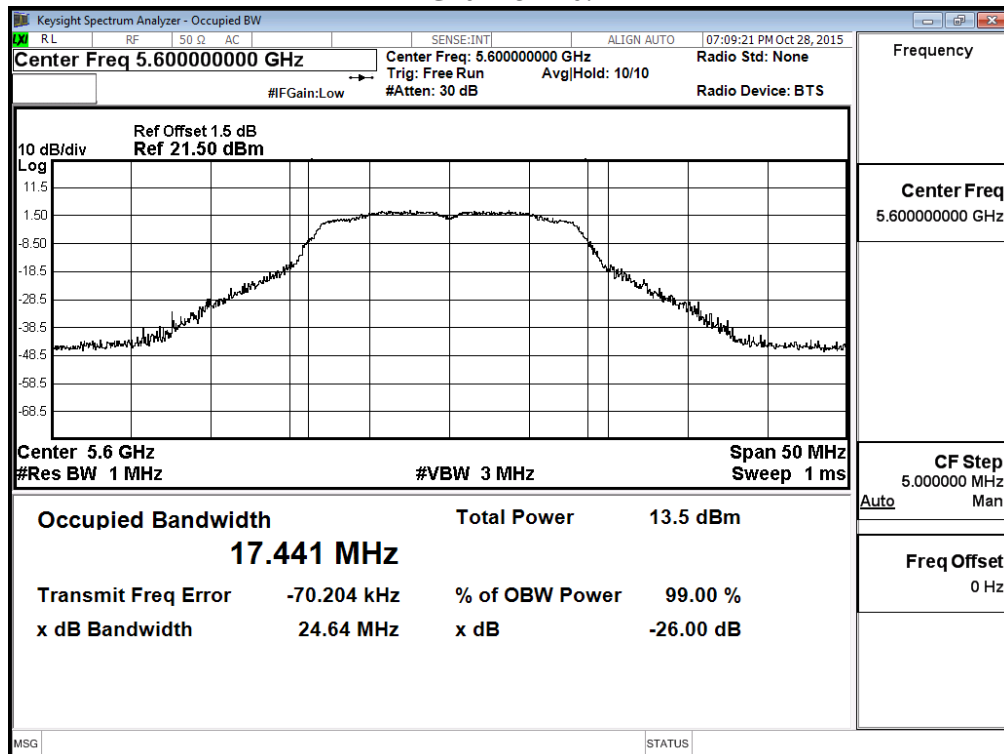
Channel 64:



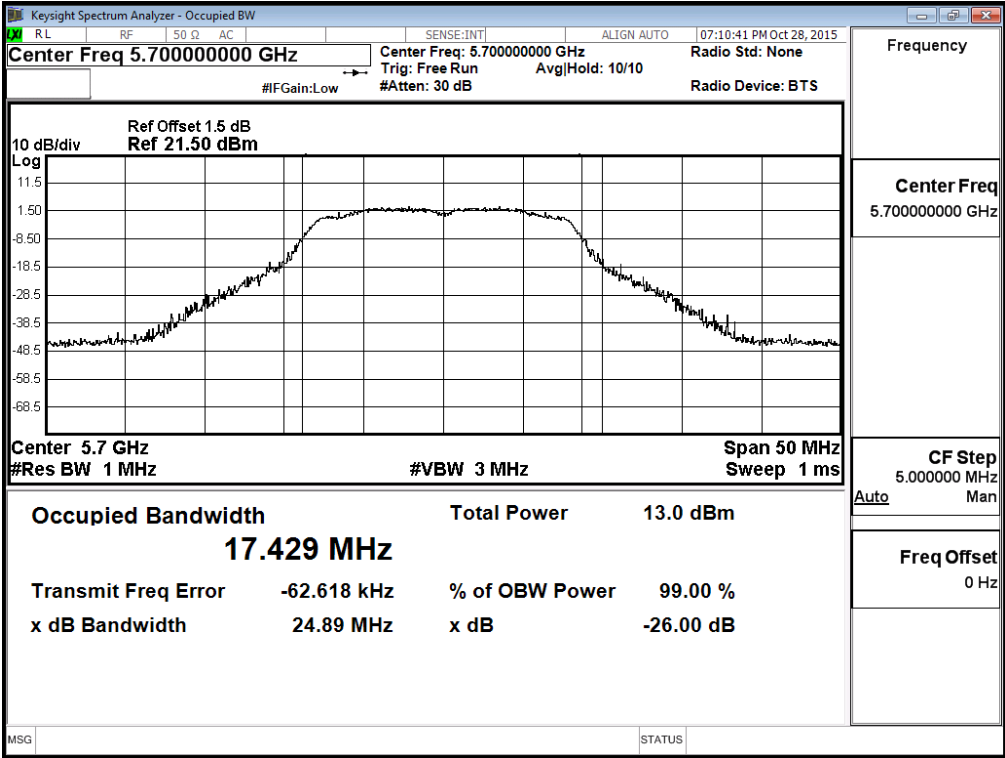
Channel 100:



Channel 120:



Channel 140:



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	8.03	--	--	--	--	--	--	--	<17dBm
44	5220	9.73	9.56	9.22	8.99	8.74	8.48	8.23	7.97	<17dBm
48	5240	9.81	--	--	--	--	--	--	--	<17dBm
52	5260	11.41	--	--	--	--	--	--	--	<24dBm
60	5300	11.98	11.79	11.43	11.18	10.91	10.63	10.36	10.08	<24dBm
64	5320	12	--	--	--	--	--	--	--	<24dBm
100	5500	9.32	--	--	--	--	--	--	--	<24dBm
120	5600	9.00	8.76	8.41	8.13	7.84	7.54	7.25	6.95	<24dBm
140	5700	8.59	--	--	--	--	--	--	--	<24dBm

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

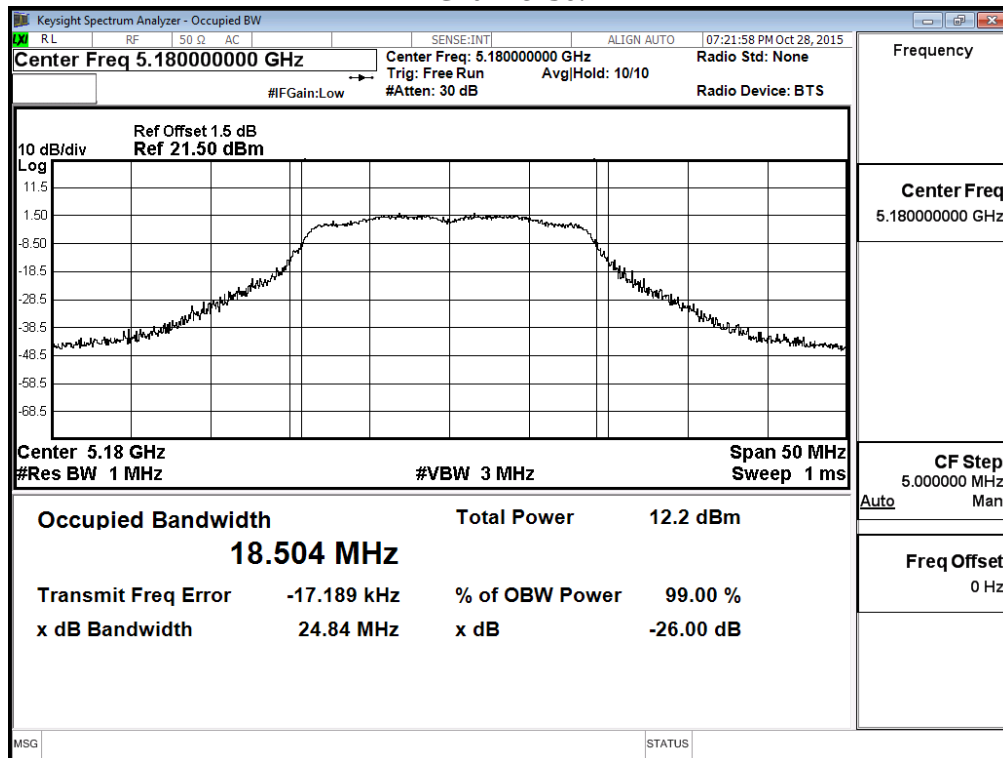
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	18.504	8.03	17	16.67
44	5220	18.514	9.73	17	16.68
48	5240	18.477	9.81	17	16.67
52	5260	18.540	11.41	24	23.68
60	5300	18.476	11.98	24	23.67
64	5320	18.510	12	24	23.67
100	5500	18.531	9.32	24	23.68
120	5600	18.454	9	24	23.66
140	5700	18.464	8.59	24	23.66

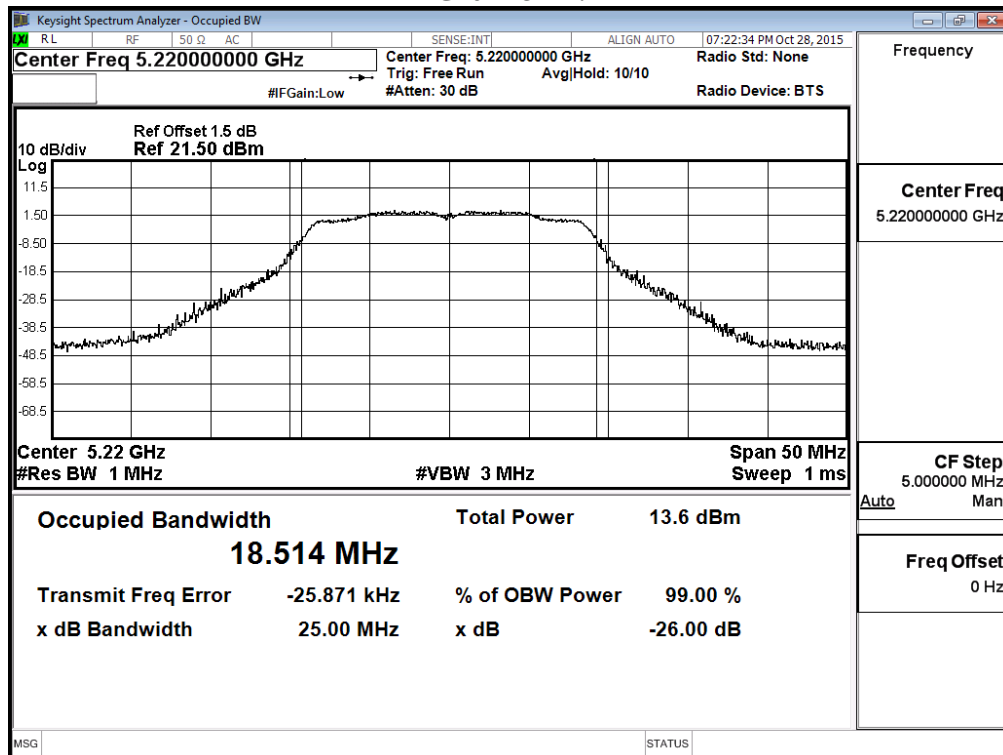
Note:

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. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

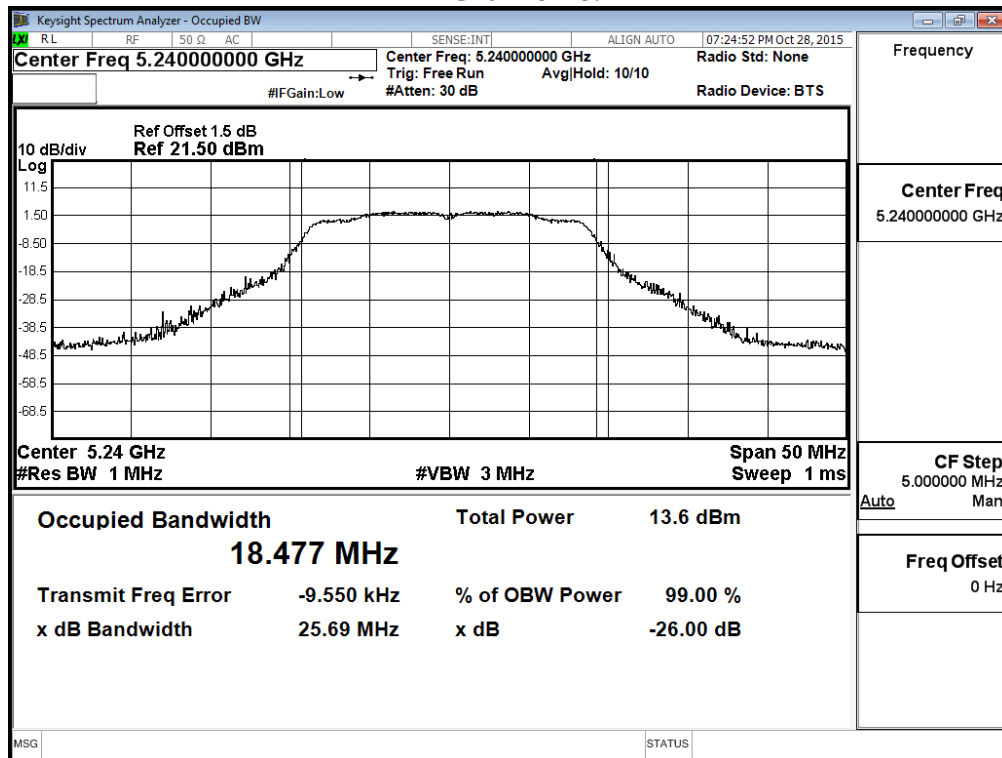
26dBc Occupied Bandwidth: Channel 36:



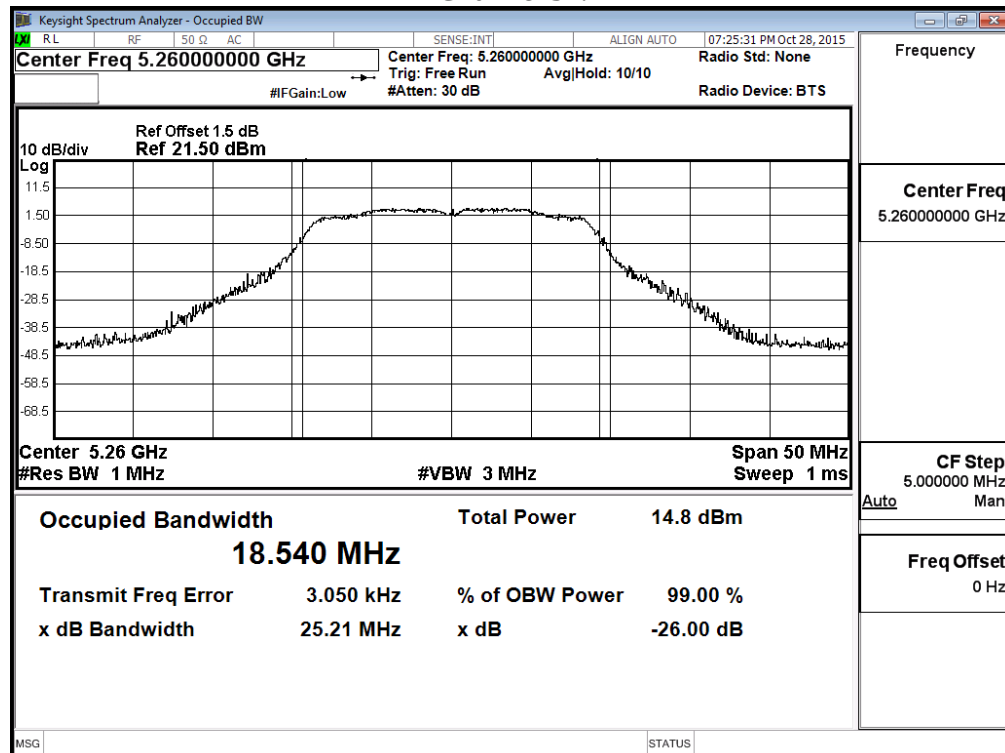
Channel 44:



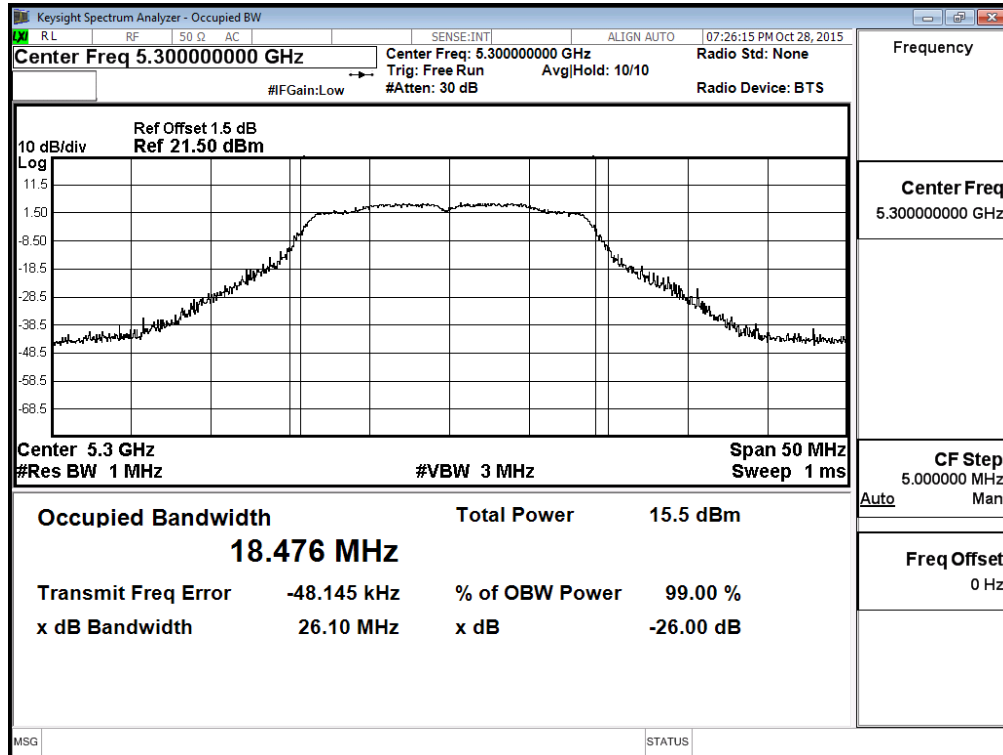
Channel 48:



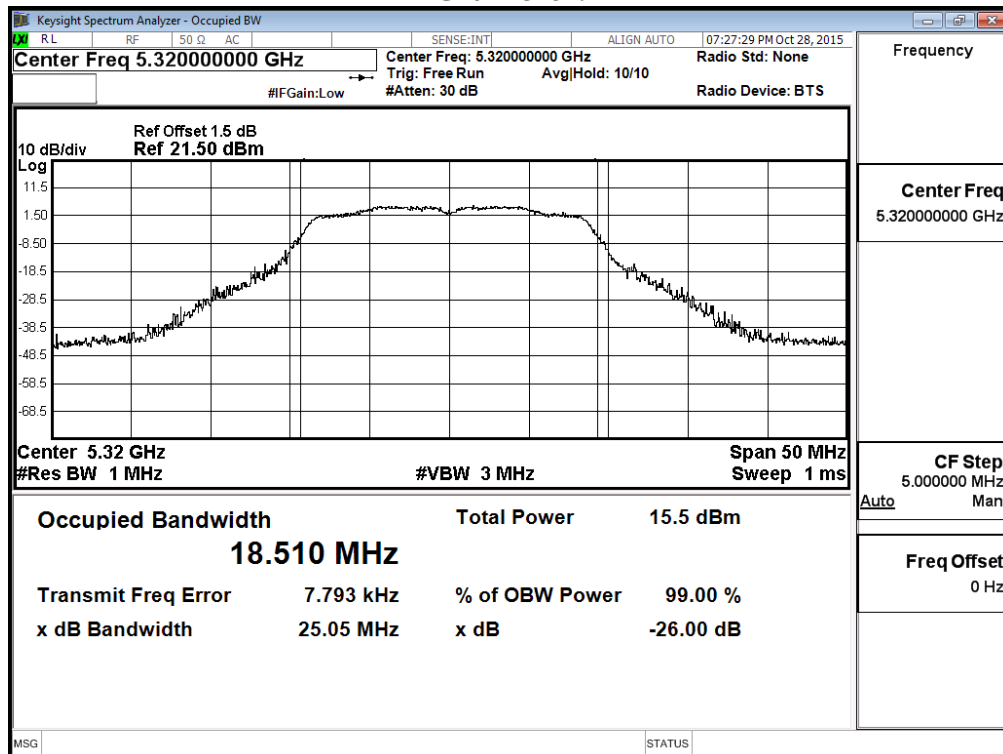
Channel 52:



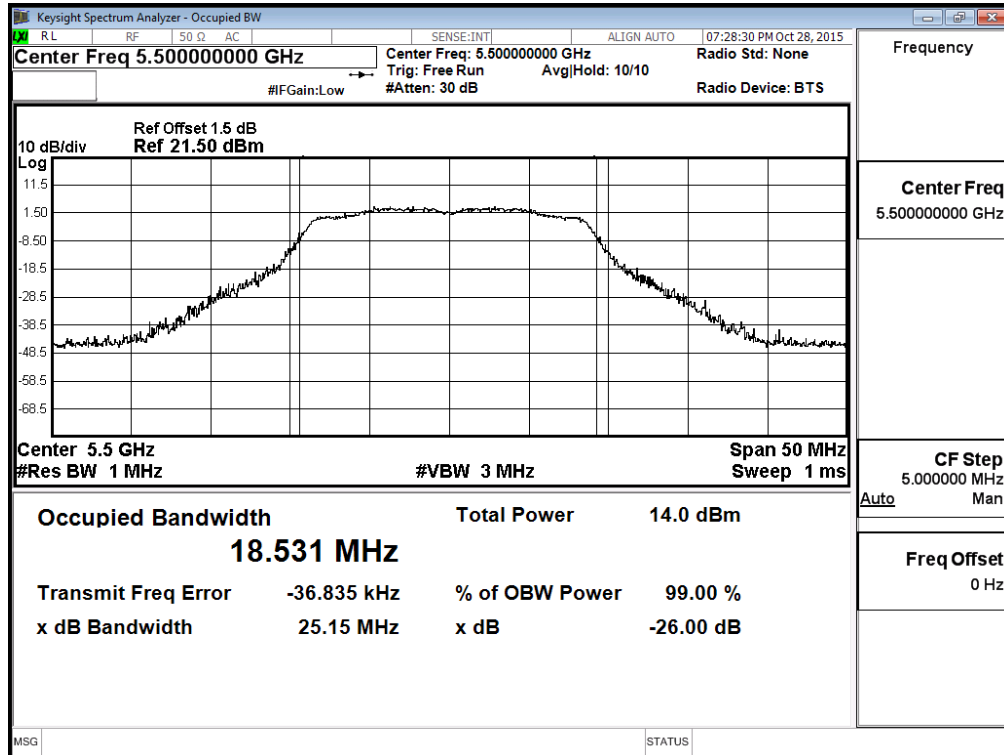
Channel 60:



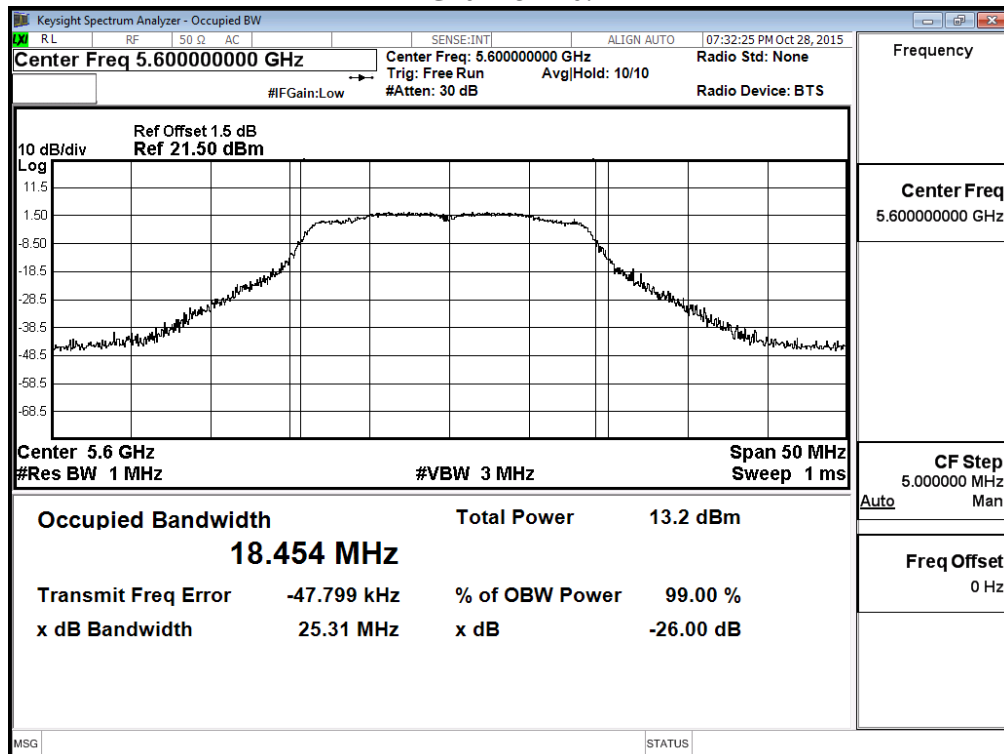
Channel 64:



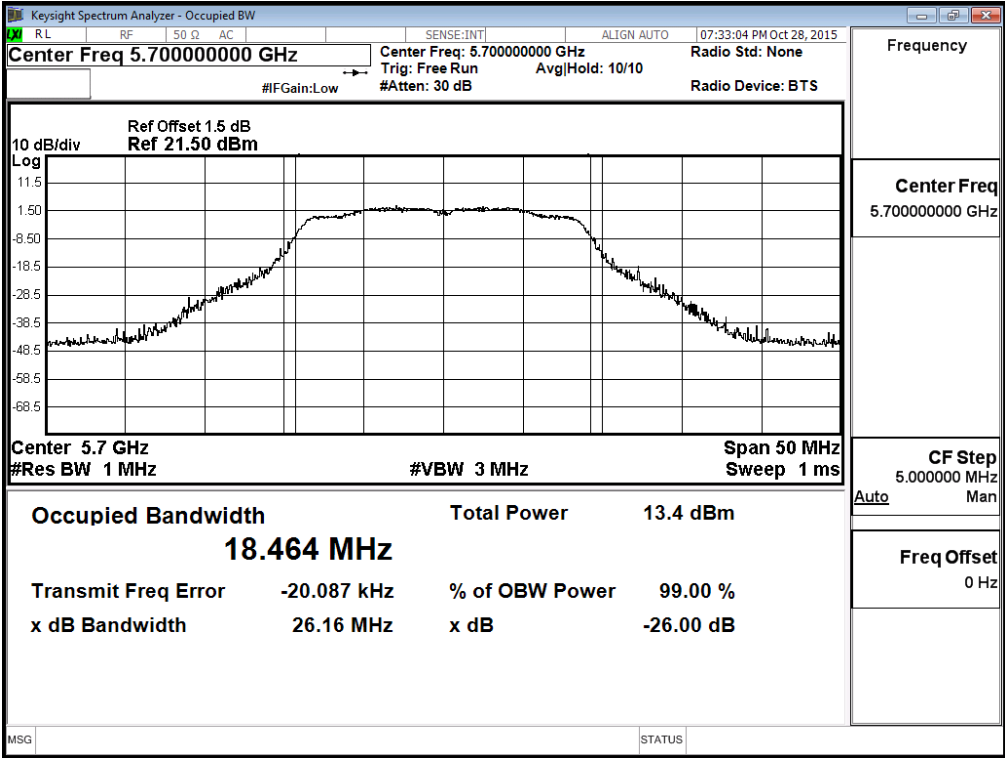
Channel 100:



Channel 120:



Channel 140:



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	8.46	8.27	8.03	7.82	7.61	7.39	7.18	6.96	<17dBm
46	5230	9.61	--	--	--	--	--	--	--	<17dBm
54	5270	10.83	10.69	10.44	10.26	10.07	9.87	9.68	9.48	<24dBm
62	5310	11.44	--	--	--	--	--	--	--	<24dBm
102	5510	9	--	--	--	--	--	--	--	<24dBm
118	5590	8.50	8.36	8.02	7.81	7.57	7.33	7.09	6.85	<24dBm
134	5670	8.88	--	--	--	--	--	--	--	<24dBm

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

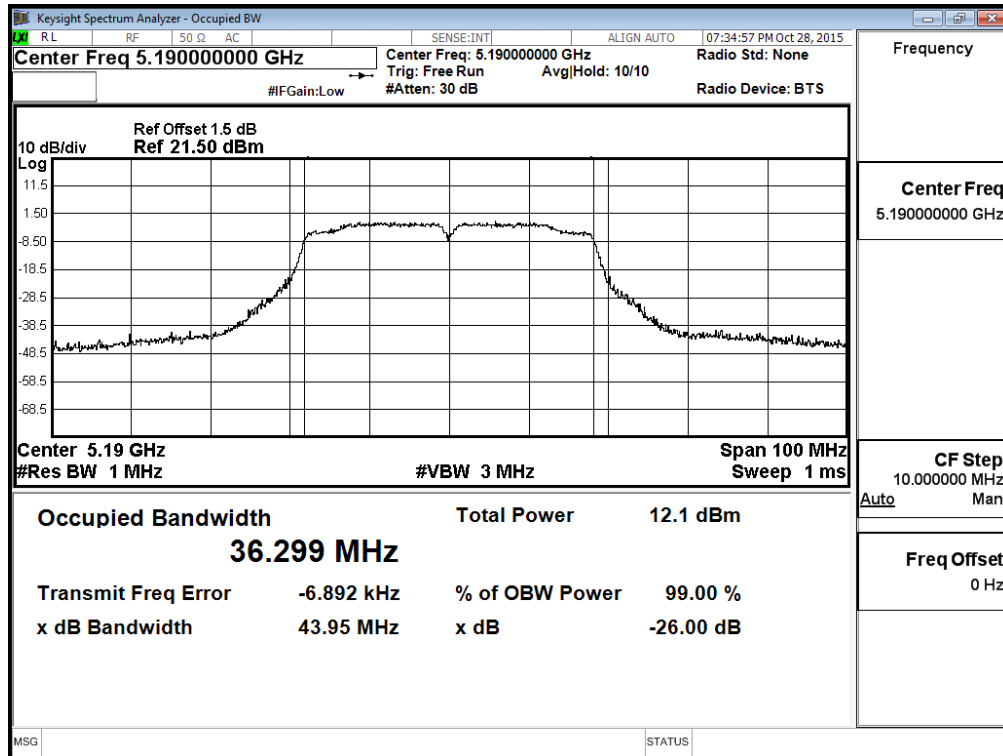
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	36.299	8.46	17	19.60
46	5230	36.359	9.61	17	19.61
54	5270	36.281	10.83	24	26.60
62	5310	36.324	11.44	24	26.60
102	5510	36.292	9	24	26.60
118	5590	36.266	8.5	24	26.59
134	5670	36.327	8.88	24	26.60

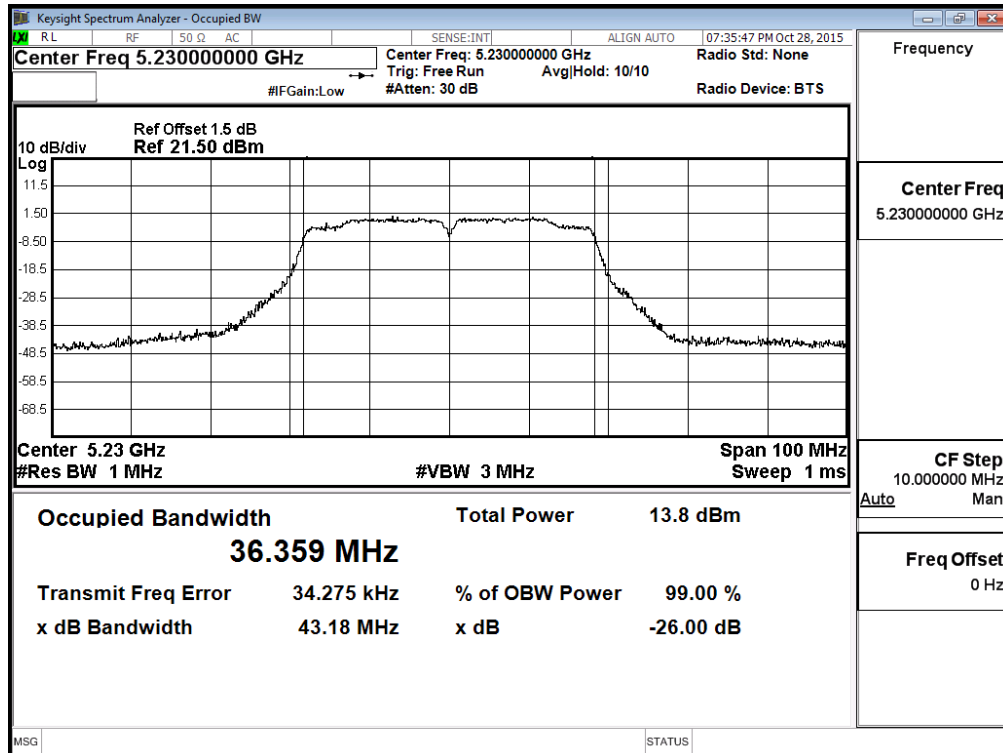
Note:

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. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

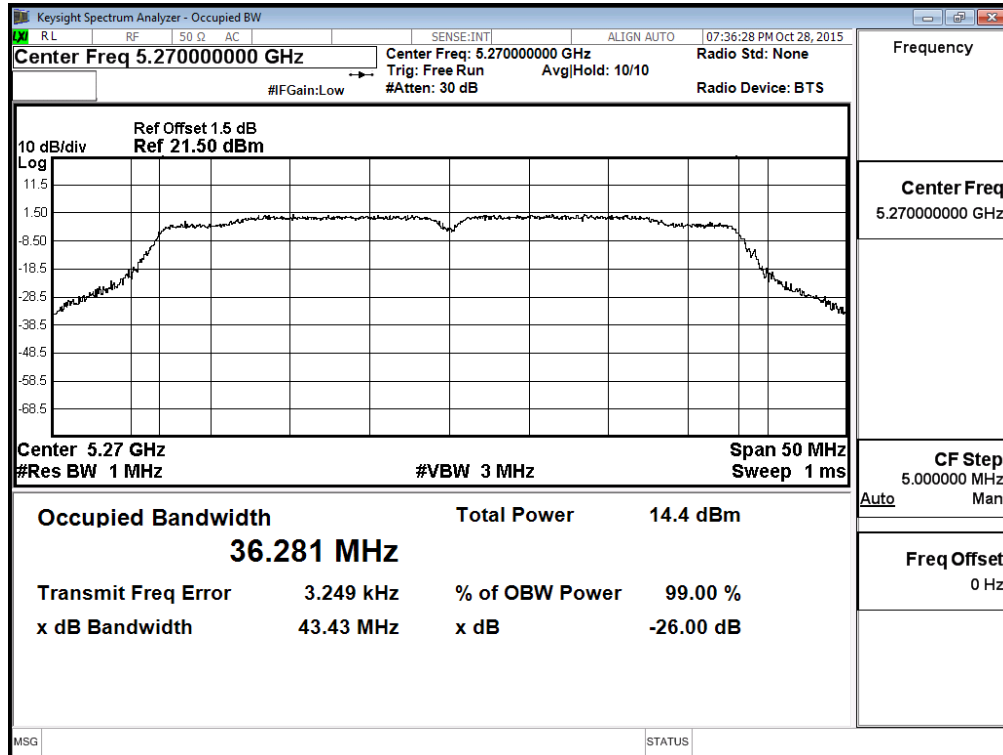
26dBc Occupied Bandwidth: Channel 38



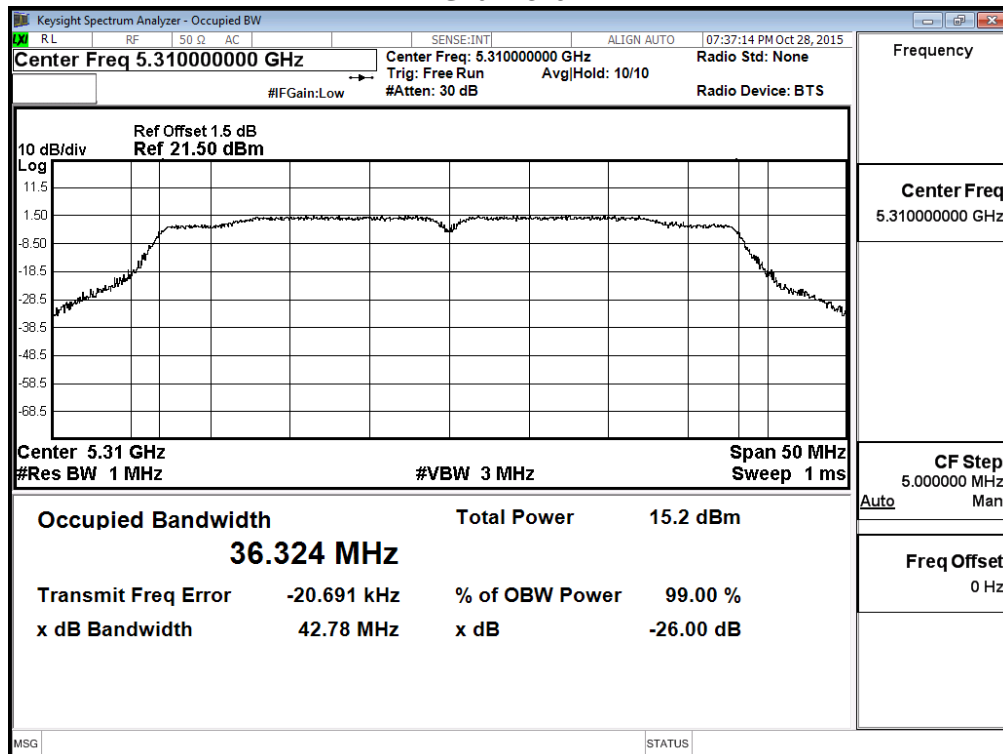
Channel 46



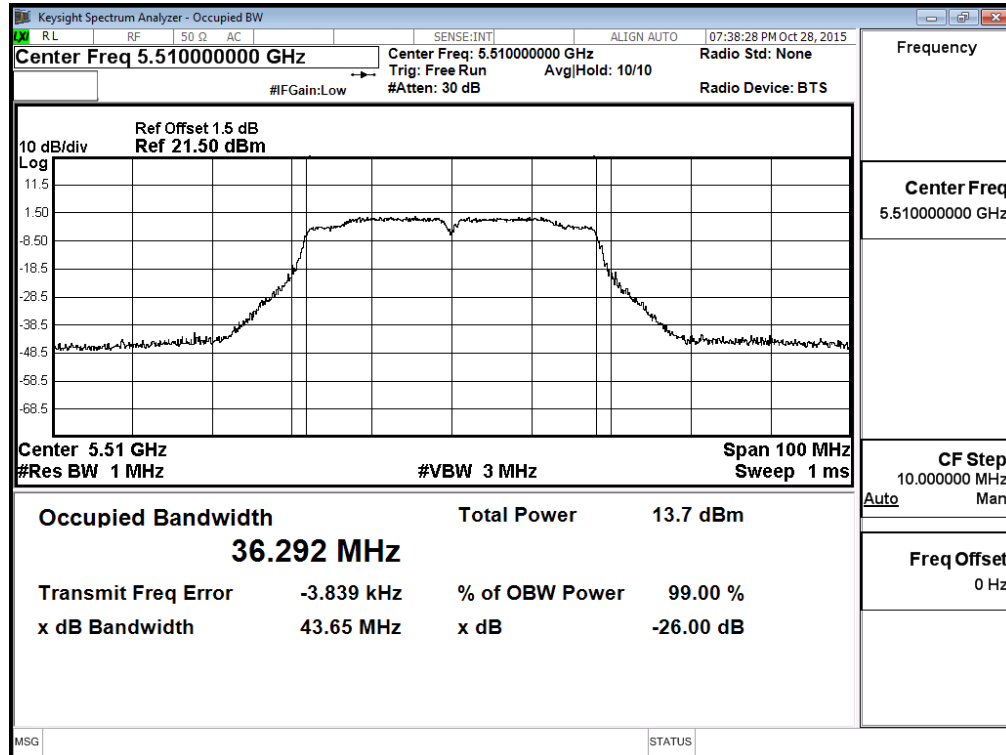
Channel 54



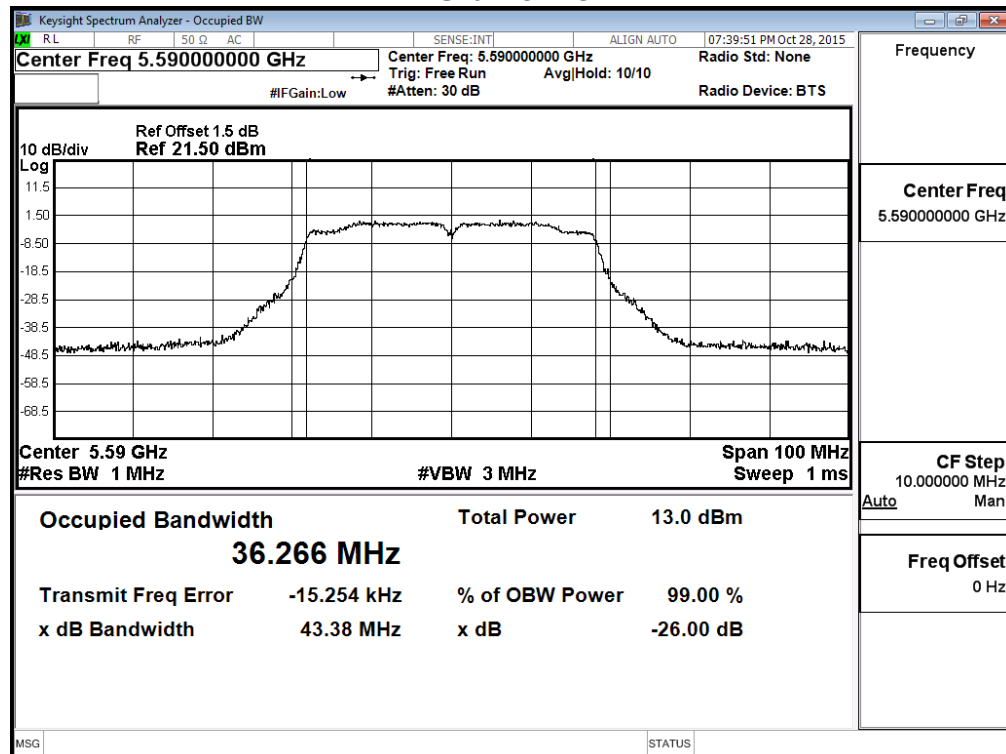
Channel 62

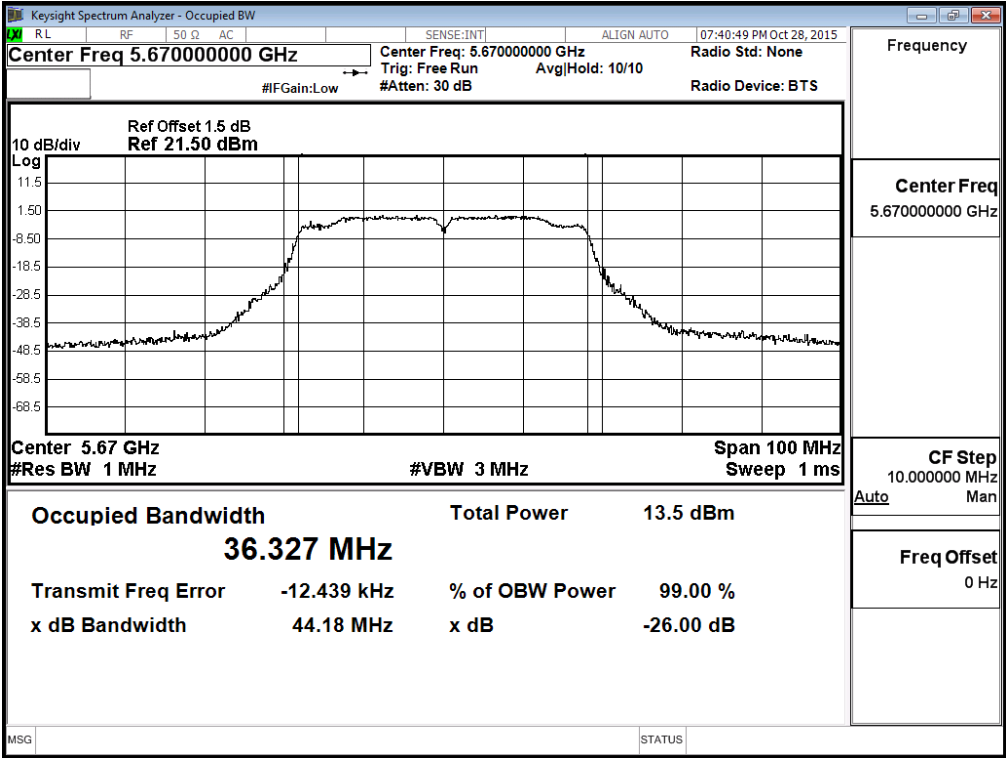


Channel 102



Channel 118





Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	8.1	8.05	7.98	7.87	7.71	7.66	7.58	7.49	7.35	<24dBm
144 (Band4)	5720	1.74	1.68	1.63	1.57	1.52	1.46	1.41	1.35	1.3	<30dBm

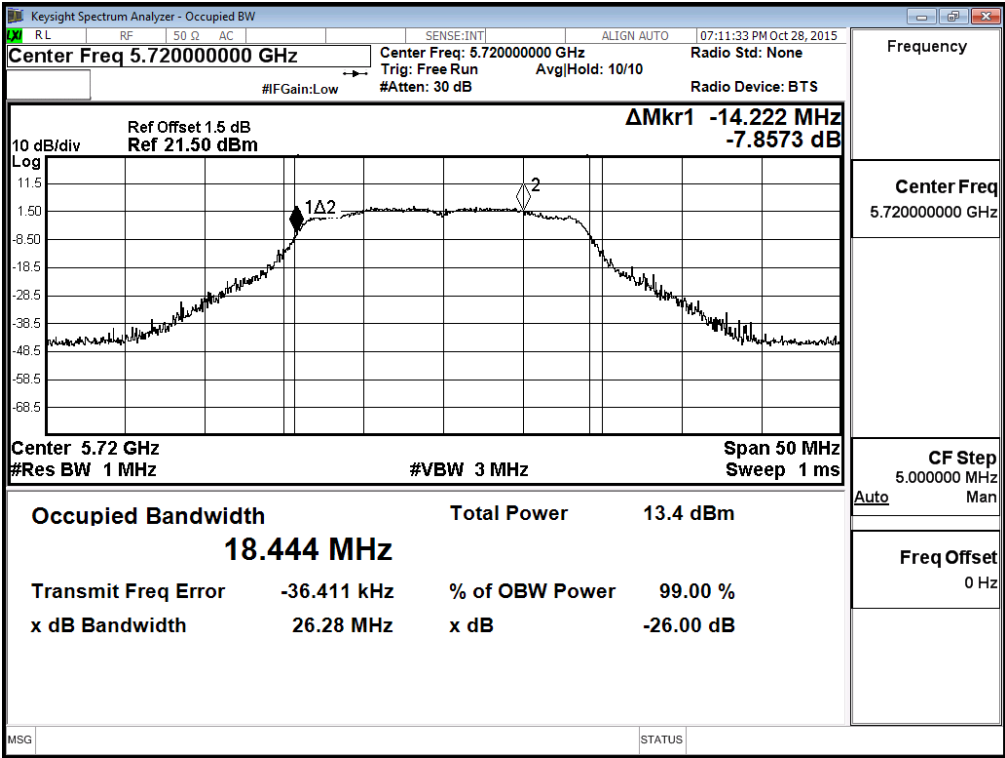
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Output Power (dBm)	Output Power Limit		Result
					(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.222	8.10	8.10	24	22.53	Pass
144(Band4)	5720	4.222	1.74	1.74	30	17.26	Pass

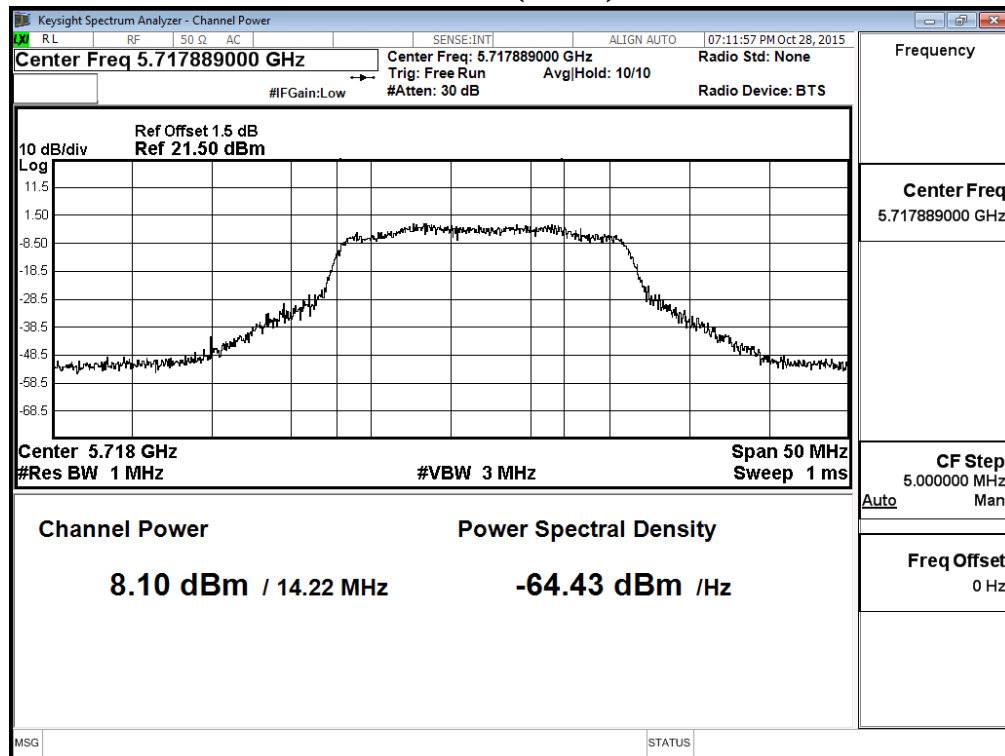
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:
 Channel 144

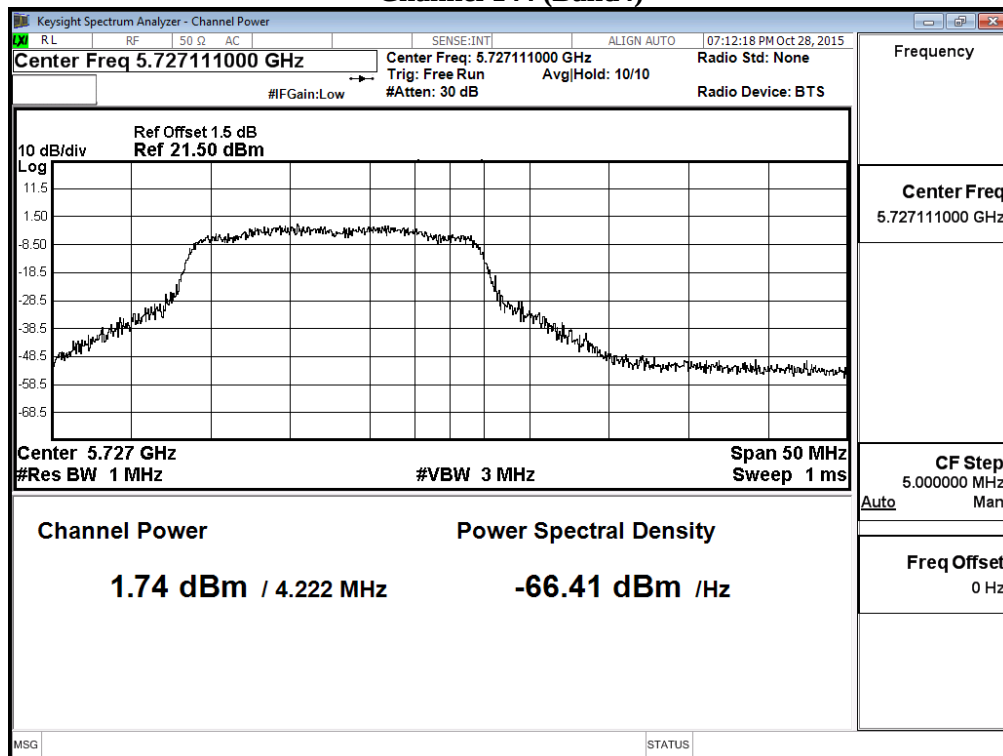


Maximum conducted output power:

Channel 144 (Band3)



Channel 144 (Band4)



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	8.27	8.2	8.14	8.07	7.99	7.92	7.84	7.78	7.71	7.63	<24dBm
142F(Band4)	5710	-4.4	-4.51	-4.62	-4.73	-4.84	-4.95	-5.06	-5.17	-5.28	-5.39	<30dBm

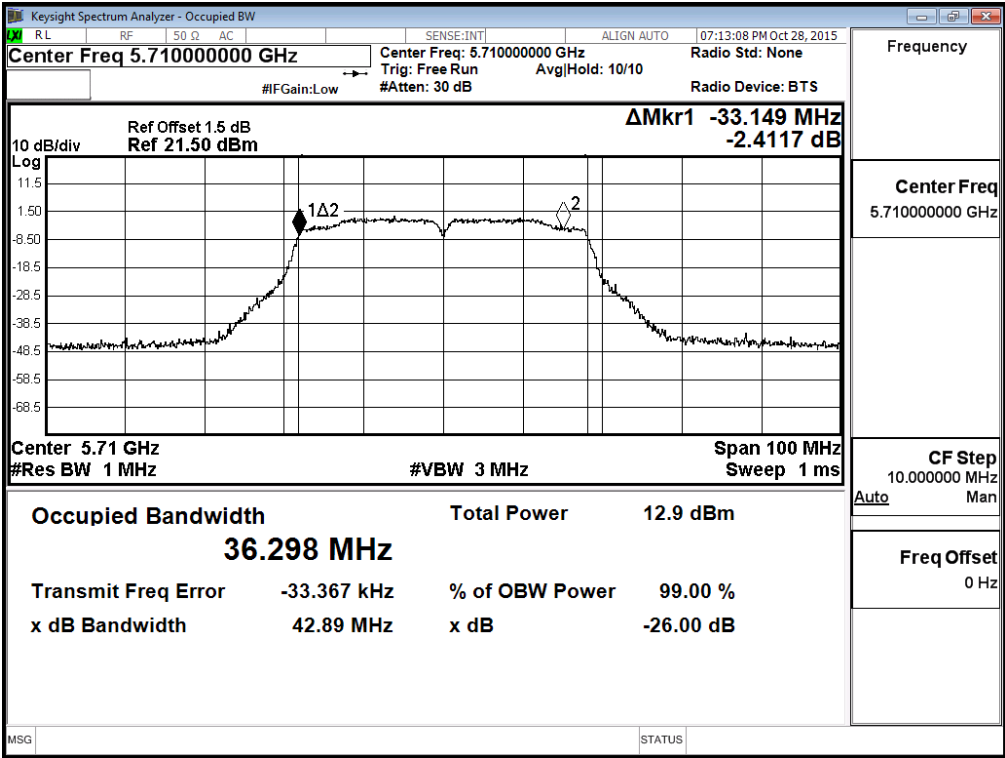
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.149	8.27	8.27	24	26.20	Pass
142F(Band4)	5710	3.149	-4.40	-4.40	30	15.98	Pass

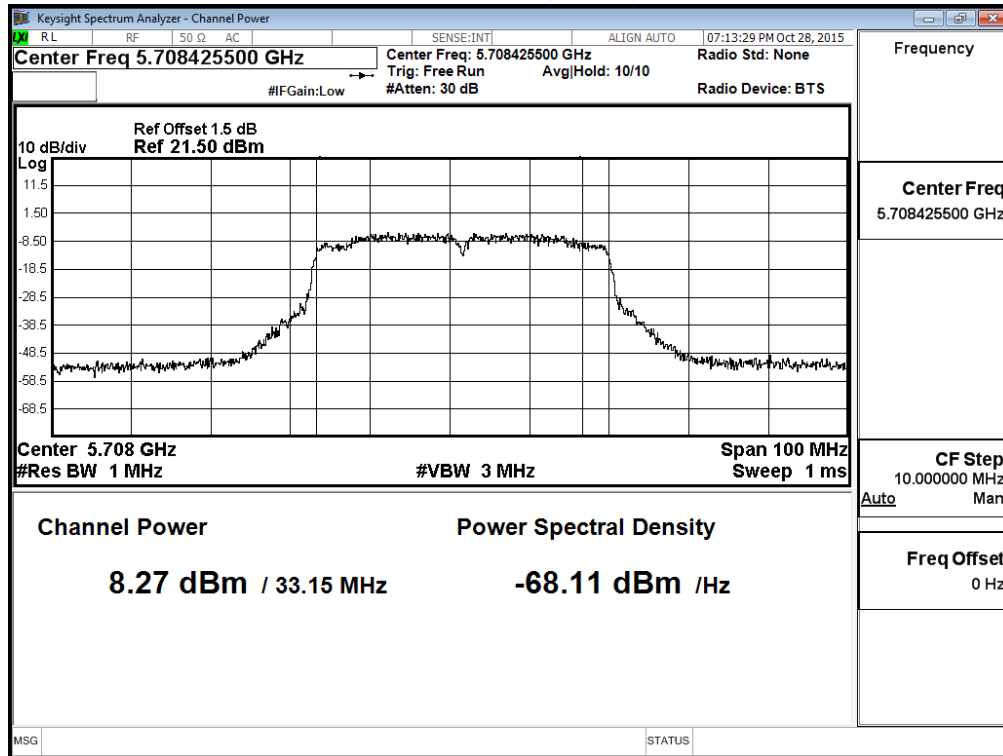
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:
 Channel 142

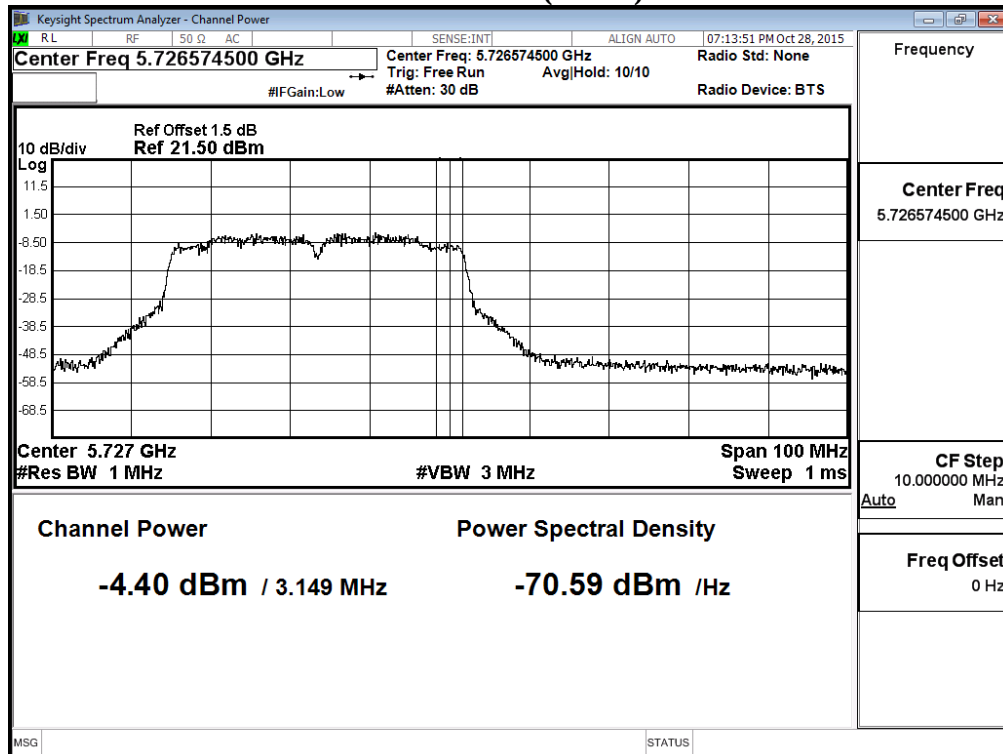


Maximum conducted output power:

Channel 142 (Band3)



Channel 142 (Band4)



Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
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	8.36	6.26	6.18	6.11	6.06	5.99	5.89	5.77	5.64	5.58	<24dBm
58	5290	10.77	9.56	9.44	9.35	9.26	9.16	9.04	8.96	8.84	8.78	<24dBm
106	5530	8.46	7.25	7.18	7.11	7.07	6.95	6.88	6.76	6.68	6.53	<24dBm
122	5610	8.41	8.35	8.22	8.16	8.05	8.01	7.94	7.88	7.71	7.64	<24dBm
138(Band3)	5690	8.27	8.15	8.04	7.92	7.81	7.69	7.58	7.46	7.35	7.23	<24dBm
138(Band4)	5690	-8.71	-8.84	-8.95	-9.07	-9.19	-9.31	-9.43	-9.55	-9.67	-9.79	<30dBm

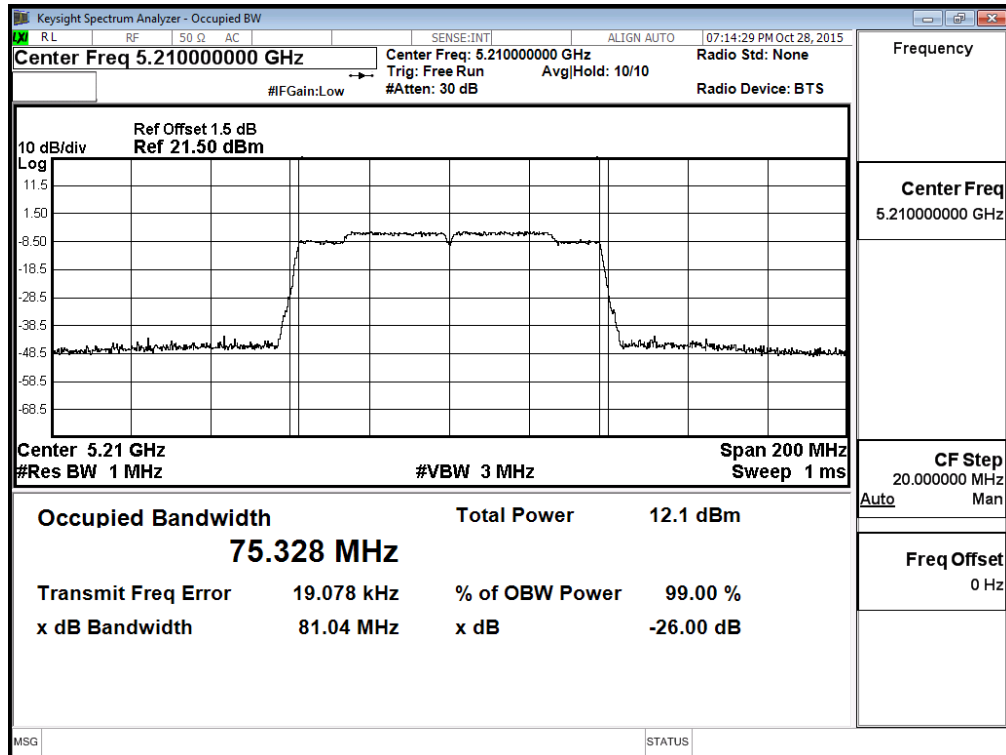
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

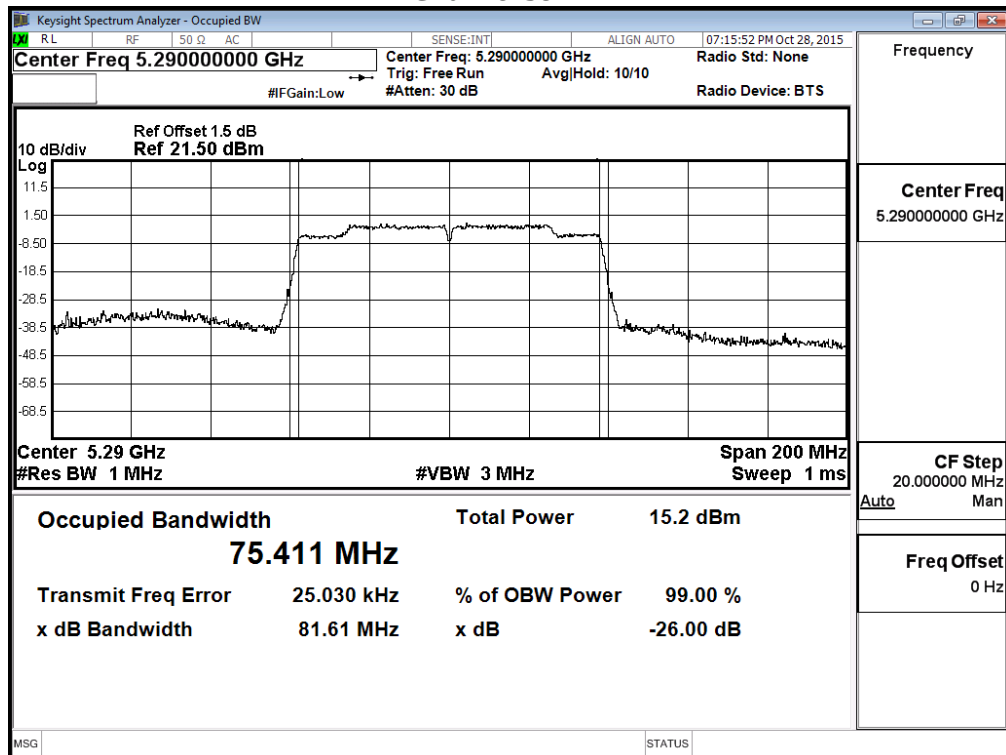
Channel No	Frequency Range	26dB Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	75.328	8.36	8.36	17	29.77	Pass
58	5290	75.411	10.77	10.77	17	29.77	Pass
106	5530	75.386	8.46	8.46	24	29.77	Pass
122	5610	75.393	8.41	8.41	24	29.77	Pass
138	5690	72.631	8.27	8.27	24	29.61	Pass
138ac80(Band4)	5690	2.630	-8.71	-8.71	30	21.20	Pass

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

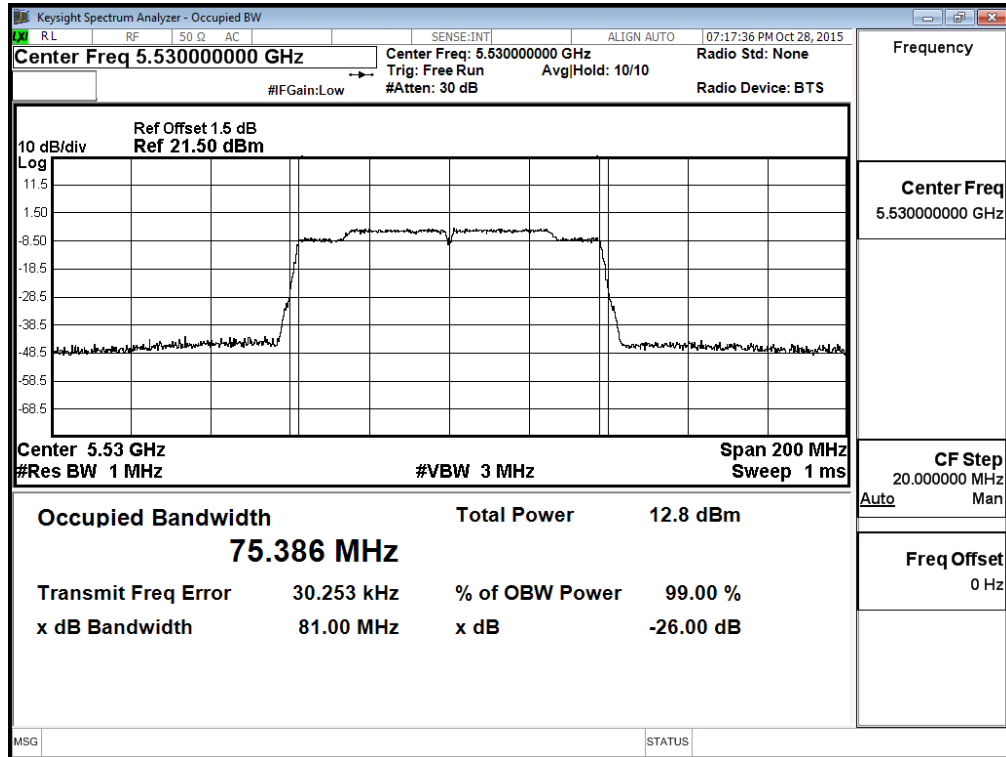
26dBc Occupied Bandwidth: Channel 42



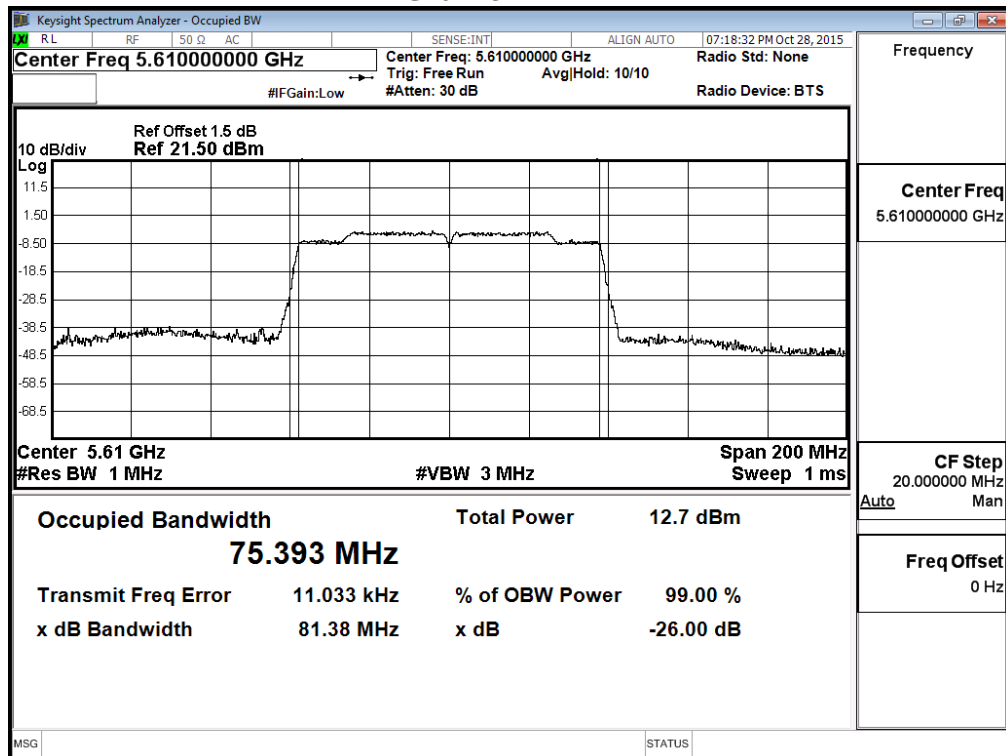
Channel 58



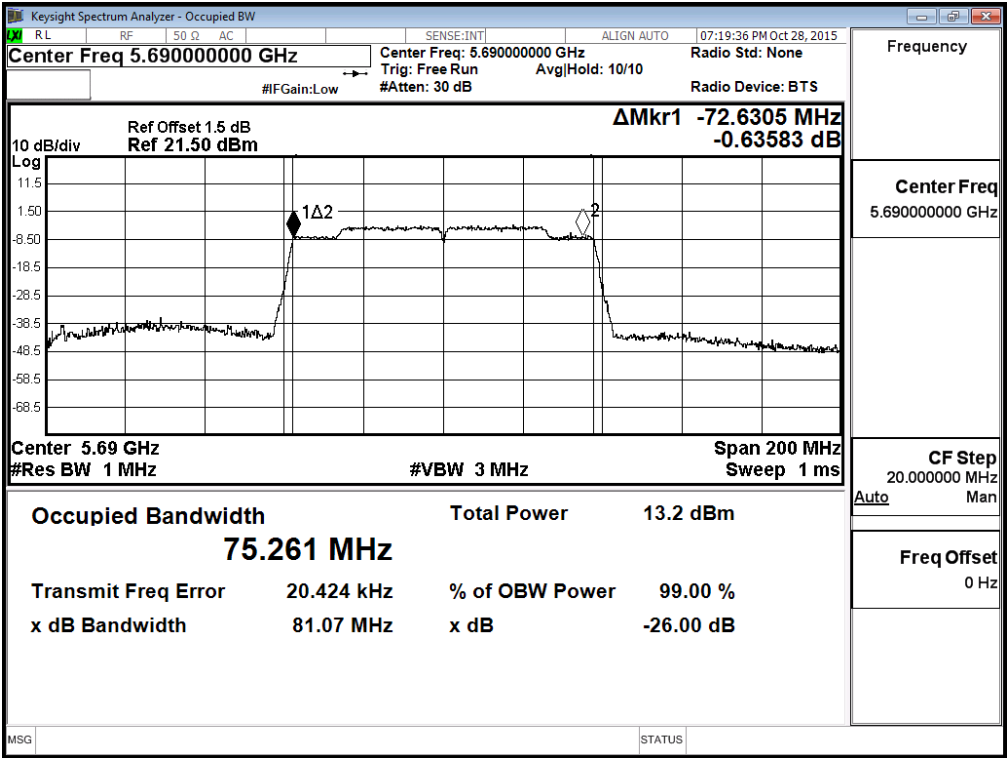
Channel 106



Channel 122

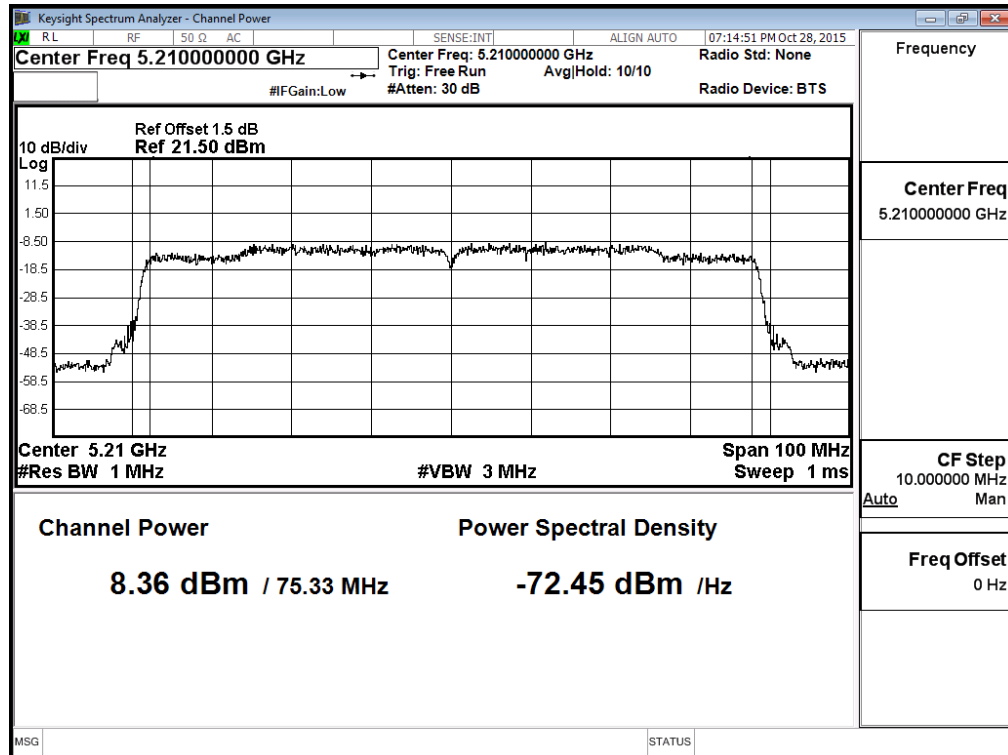


Channel 138



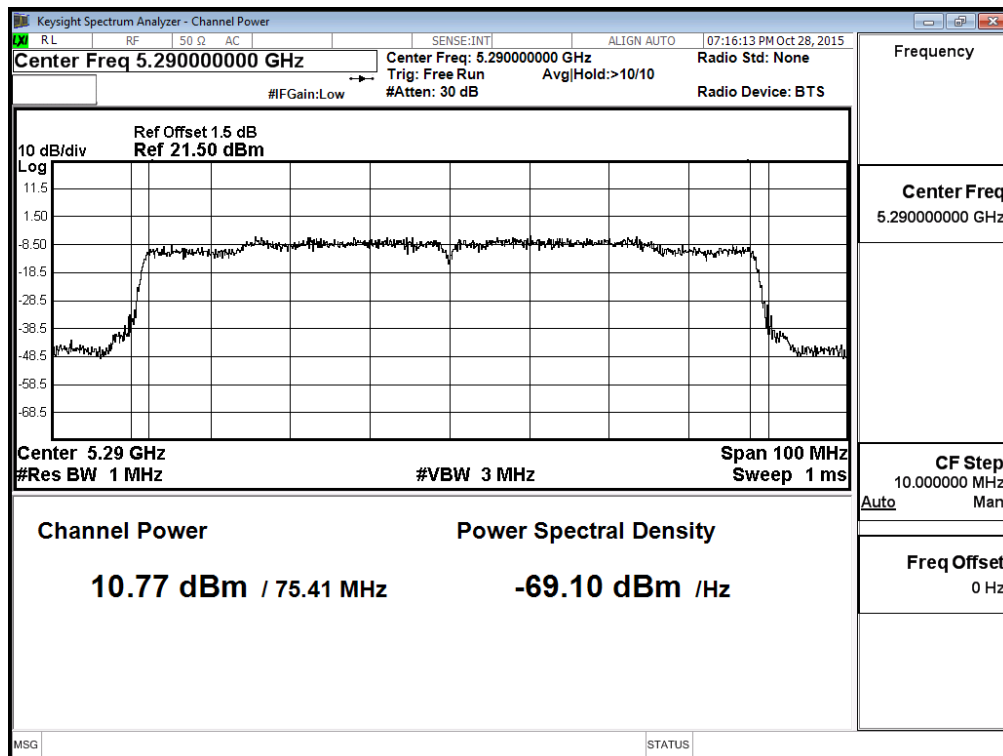
Maximum conducted output power:

Channel 42



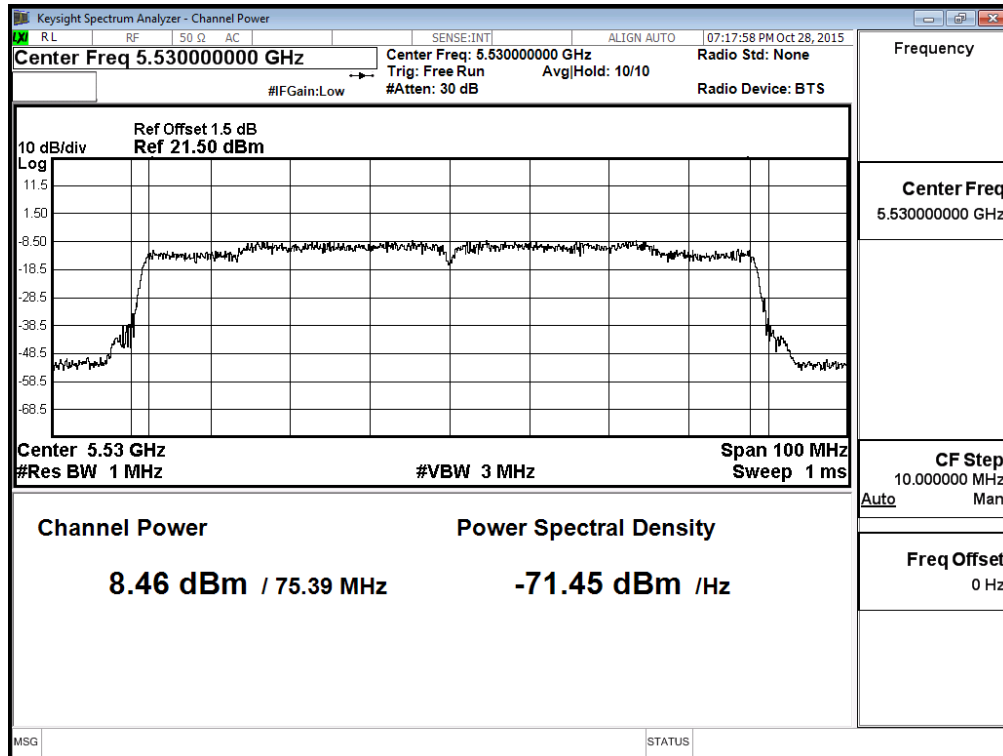
Maximum conducted output power:

Channel 58



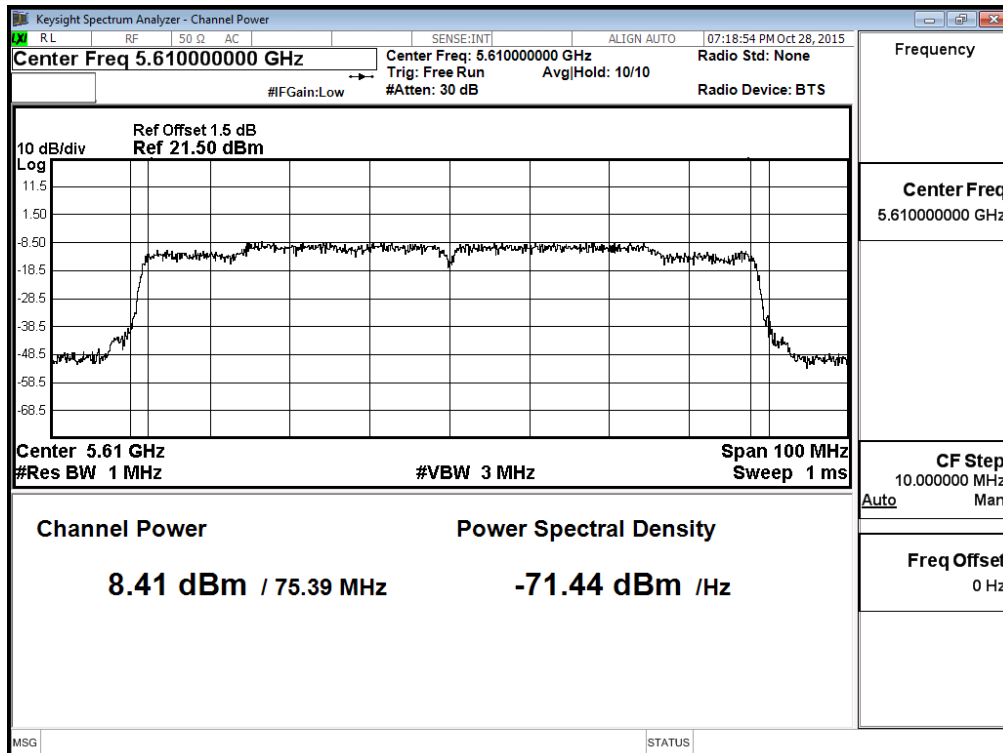
Maximum conducted output power:

Channel 106

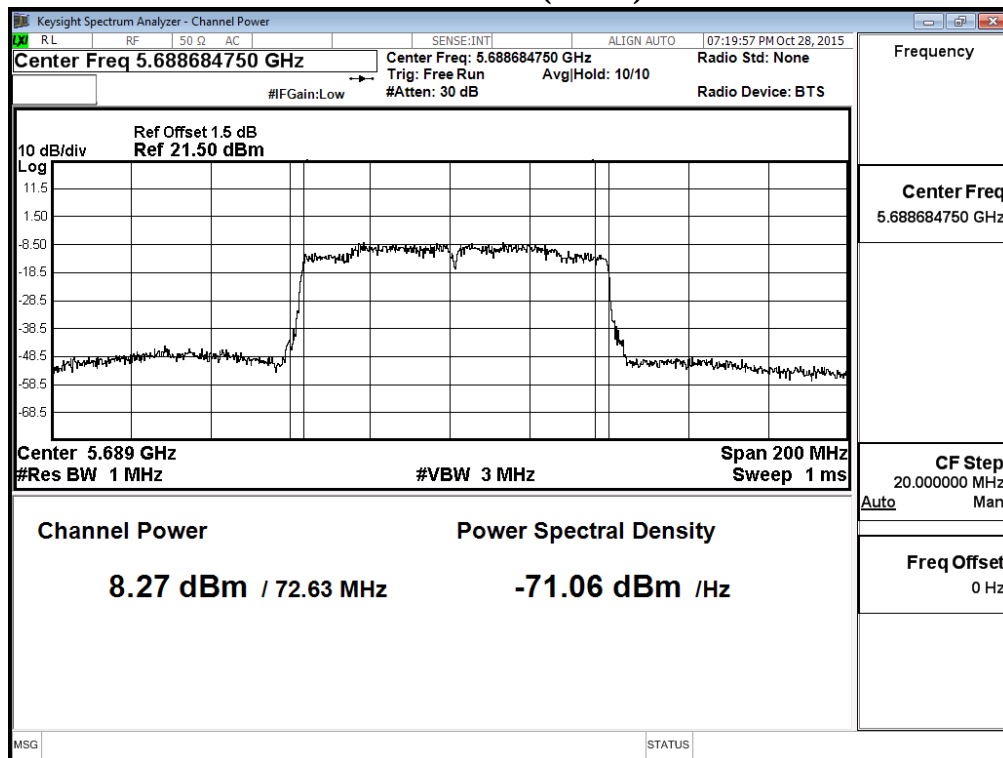


Maximum conducted output power:

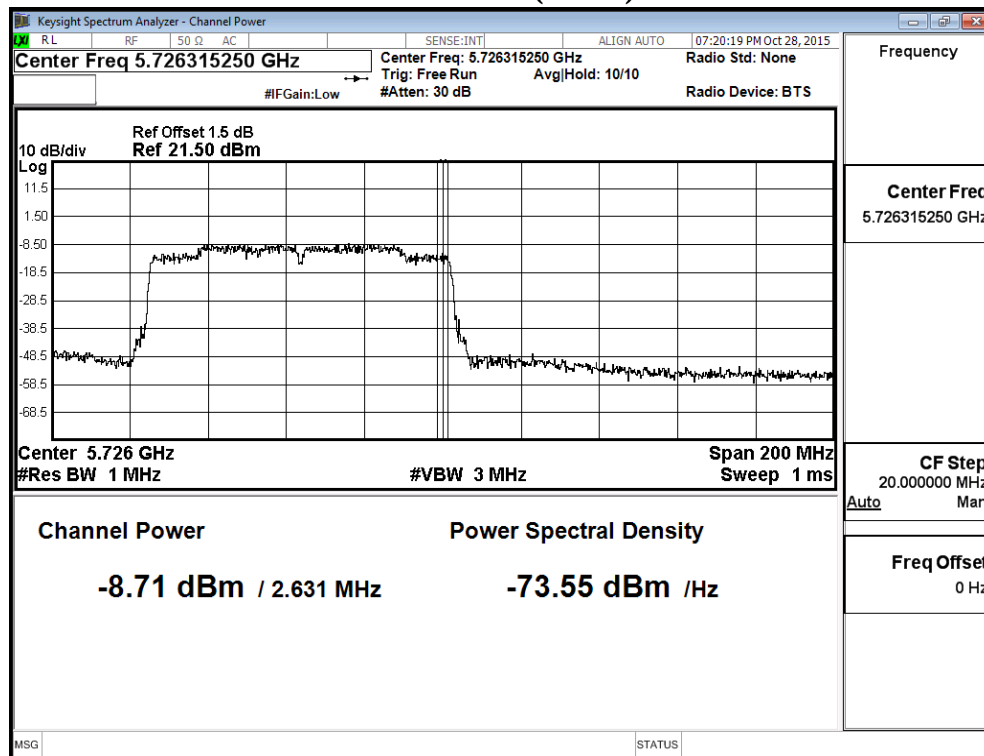
Channel 122



**Maximum conducted output power:
Channel 138 (Band3)**



**Maximum conducted output power:
Channel 138 (Band4)**



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	10.99	--	--	--	--	--	--	--	<17dBm
44	5220	11.45	11.38	11.26	11.15	11.09	10.94	10.88	10.78	<17dBm
48	5240	11.41	--	--	--	--	--	--	--	<17dBm
52	5260	11.81	--	--	--	--	--	--	--	<24dBm
60	5300	12	11.98	11.86	11.78	11.64	11.55	11.49	11.35	<24dBm
64	5320	12.33	--	--	--	--	--	--	--	<24dBm
100	5500	10	--	--	--	--	--	--	--	<24dBm
120	5600	11.5	11.85	11.77	11.64	11.59	11.45	11.33	11.26	<24dBm
140	5700	8.25	--	--	--	--	--	--	--	<24dBm

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

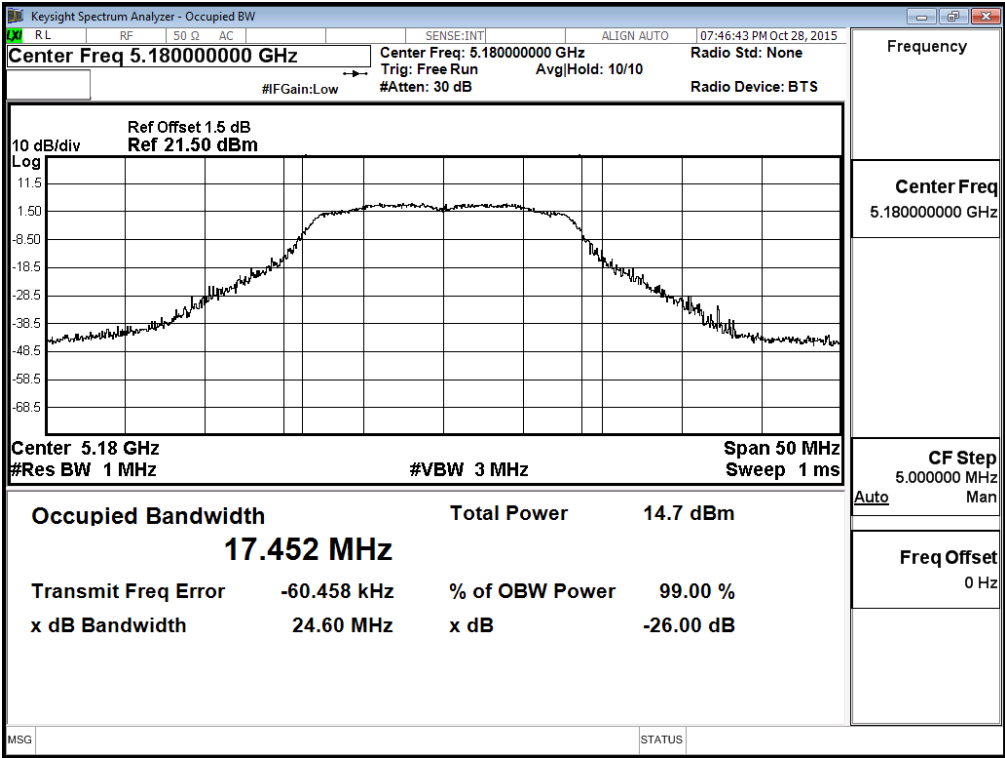
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	17.452	10.99	17	16.42
44	5220	17.575	11.45	17	16.45
48	5240	17.415	11.41	17	16.41
52	5260	17.458	11.81	24	23.42
60	5300	17.442	12	24	23.42
64	5320	17.527	12.33	24	23.44
100	5500	17.394	10	24	23.40
120	5600	17.454	11.85	24	23.42
140	5700	17.498	8.25	24	23.43

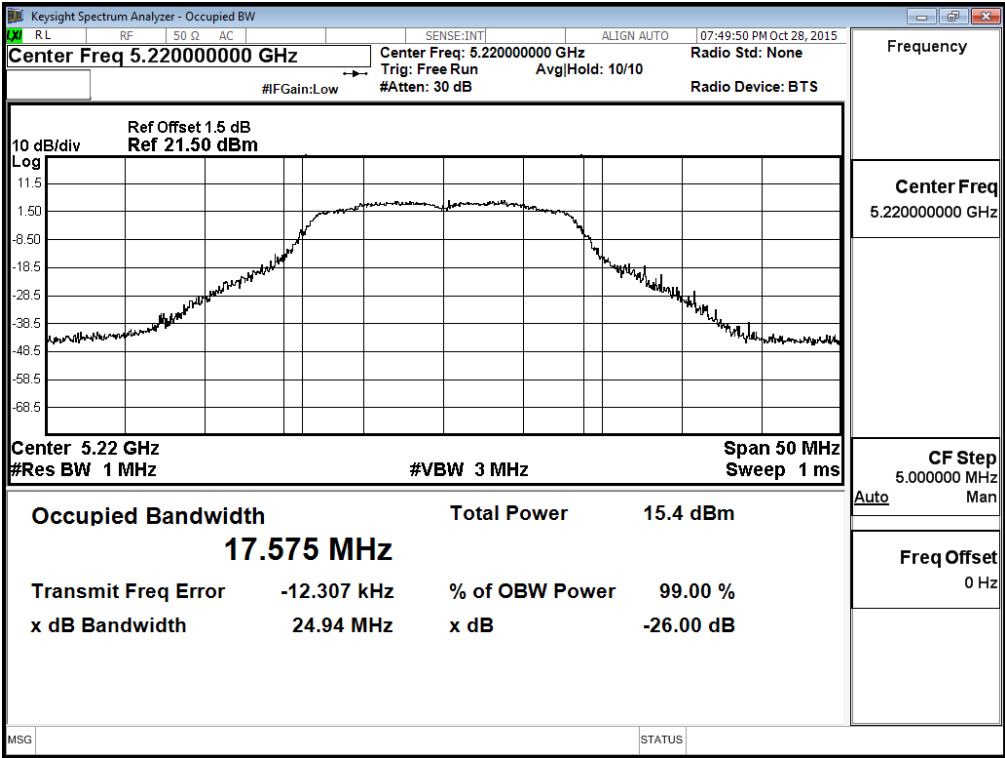
Note:

- Power Output Value = Reading value on average power meter + cable loss
- 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

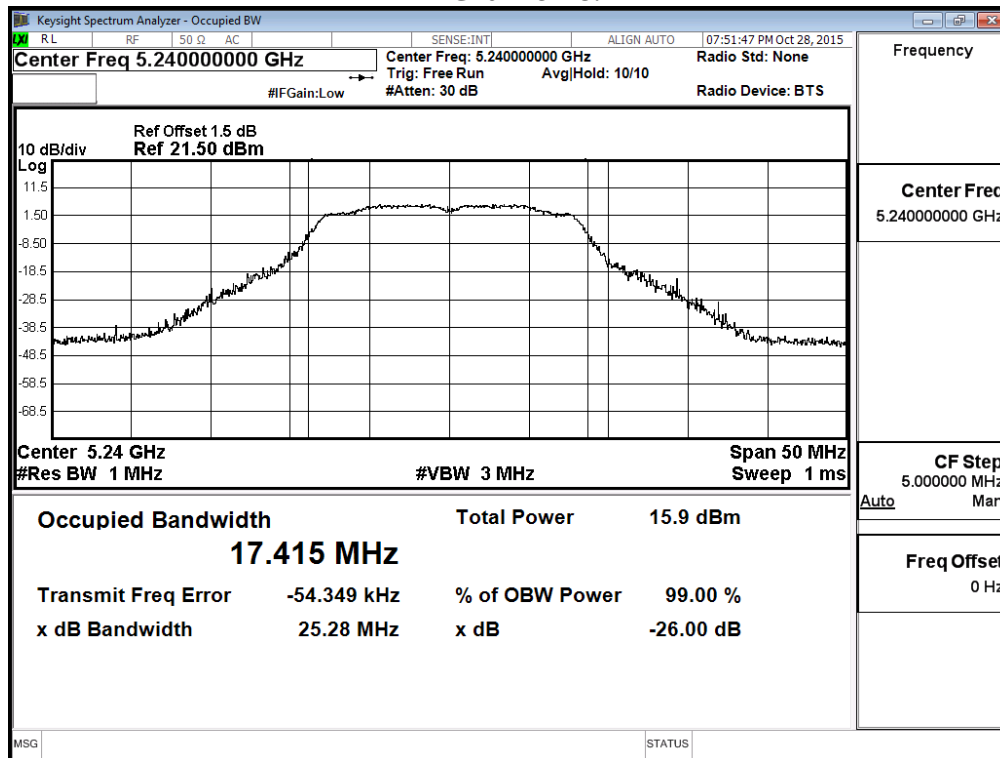
**26dBc Occupied Bandwidth:
Channel 36:**



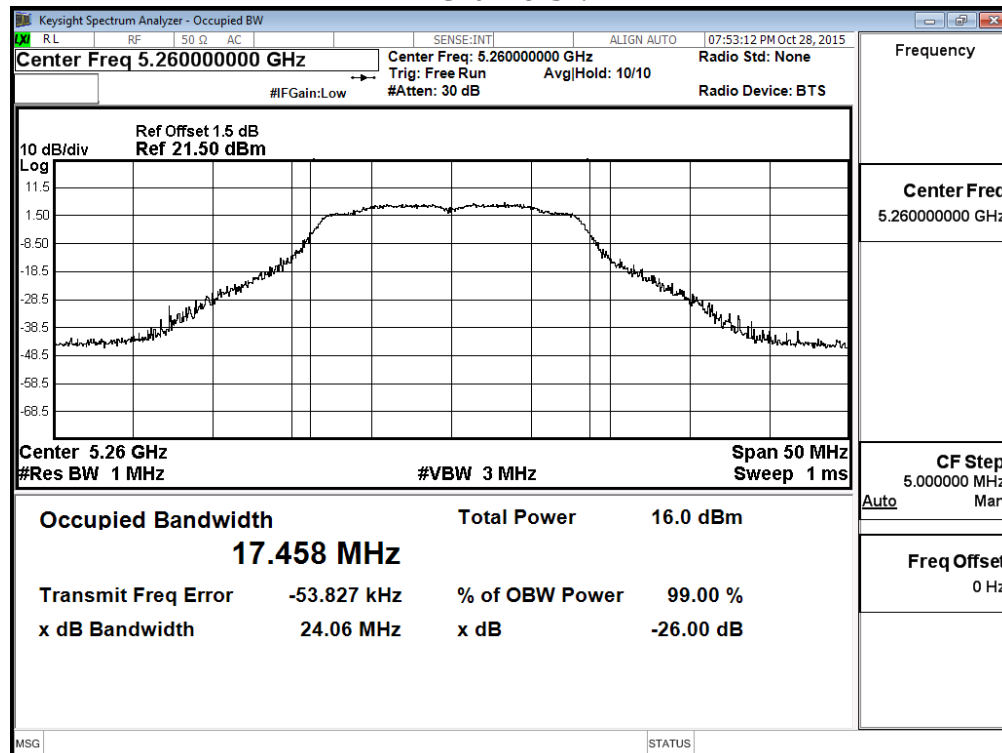
Channel 44:



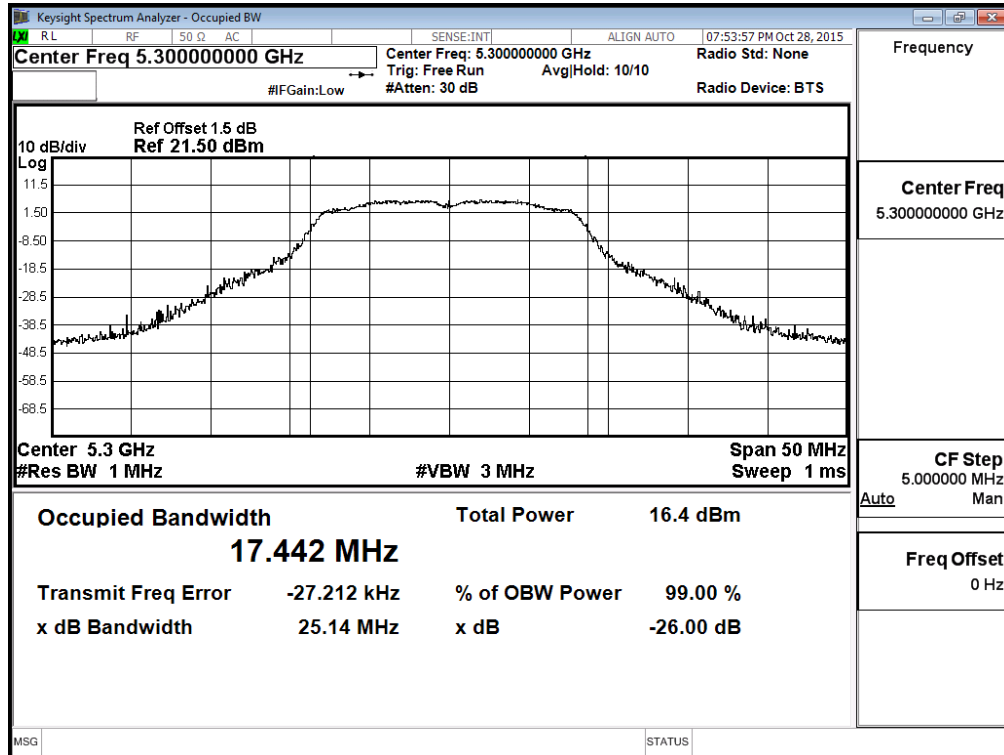
Channel 48:



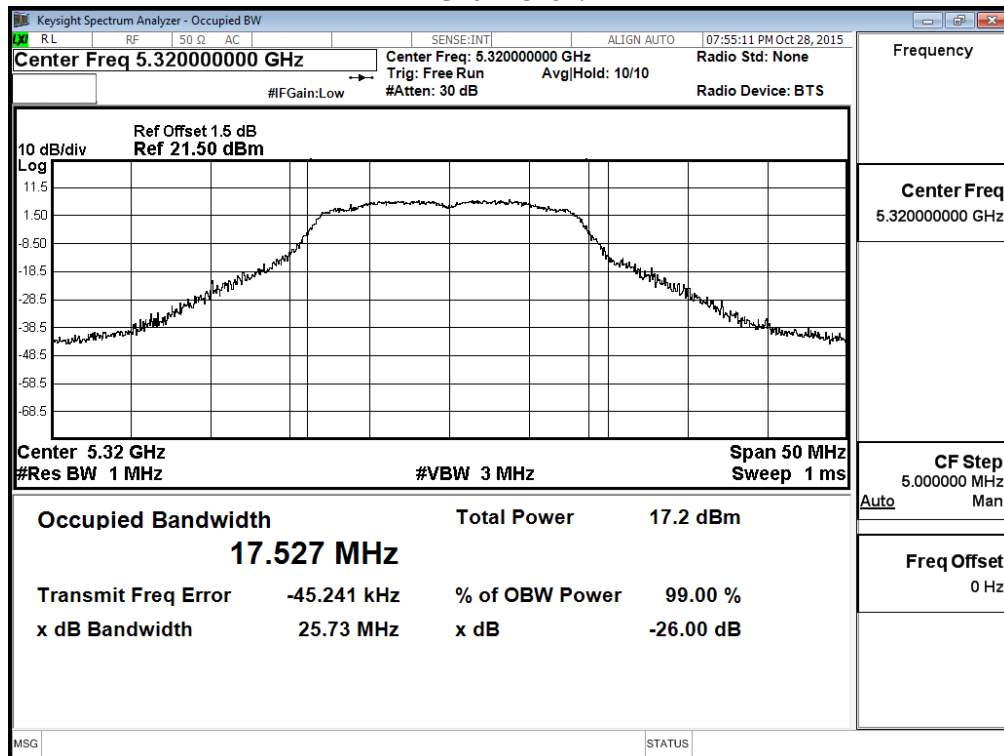
Channel 52:



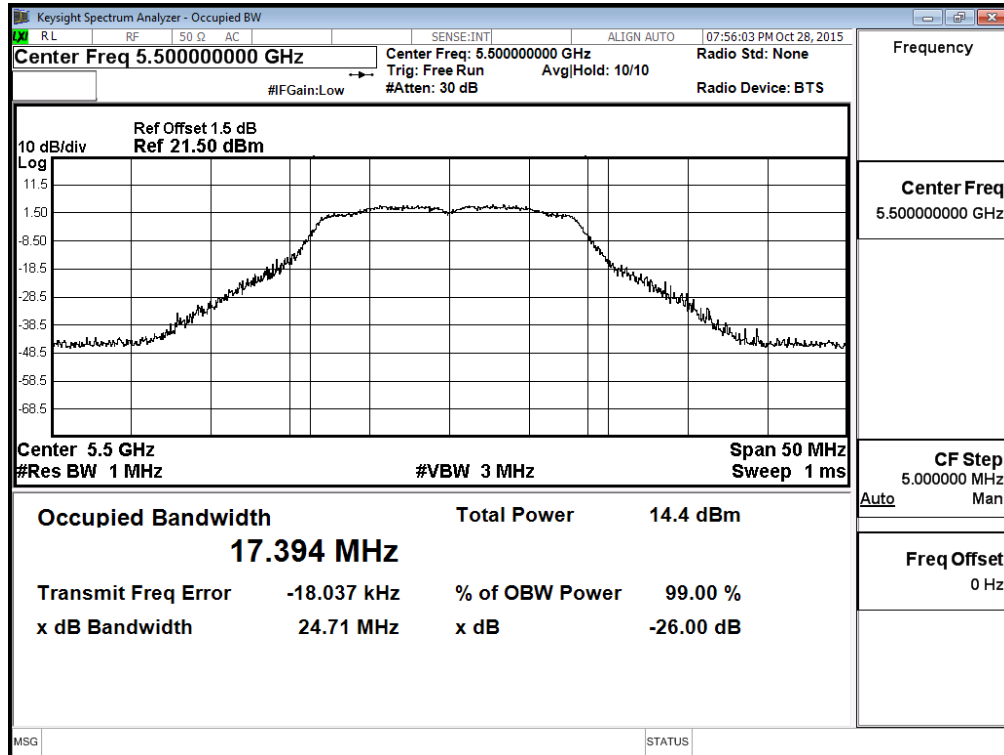
Channel 60:



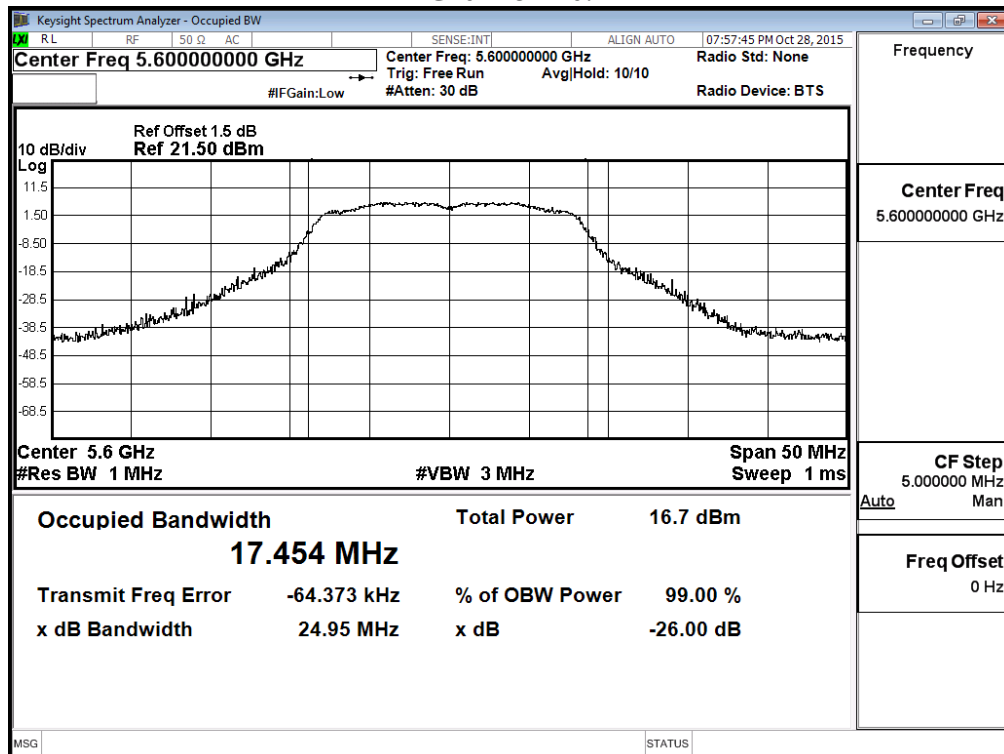
Channel 64:



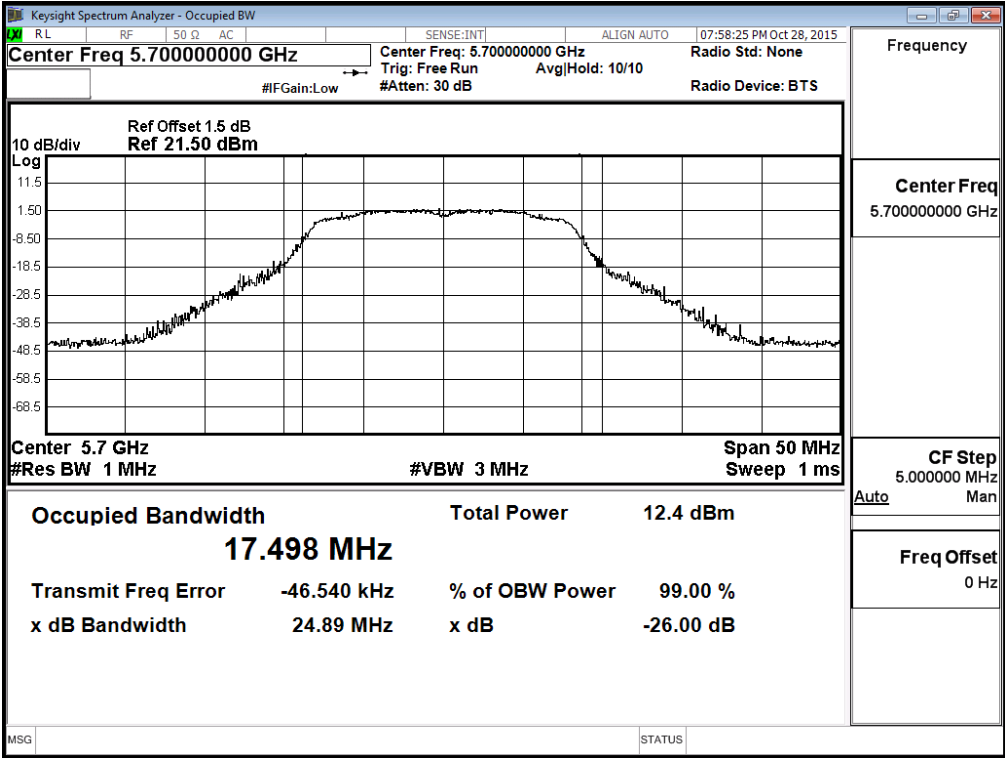
Channel 100:



Channel 120:



Channel 140:



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	10.91	--	--	--	--	--	--	--	<17dBm
44	5220	11.34	11.27	11.16	11.05	10.98	10.86	10.78	10.66	<17dBm
48	5240	11.31	--	--	--	--	--	--	--	<17dBm
52	5260	11.72	--	--	--	--	--	--	--	<24dBm
60	5300	11.98	11.92	11.84	11.74	11.62	11.54	11.49	11.33	<24dBm
64	5320	12.22	--	--	--	--	--	--	--	<24dBm
100	5500	10	--	--	--	--	--	--	--	<24dBm
120	5600	11.48	11.35	11.26	11.18	11.07	10.96	10.84	10.76	<24dBm
140	5700	8.03	--	--	--	--	--	--	--	<24dBm

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

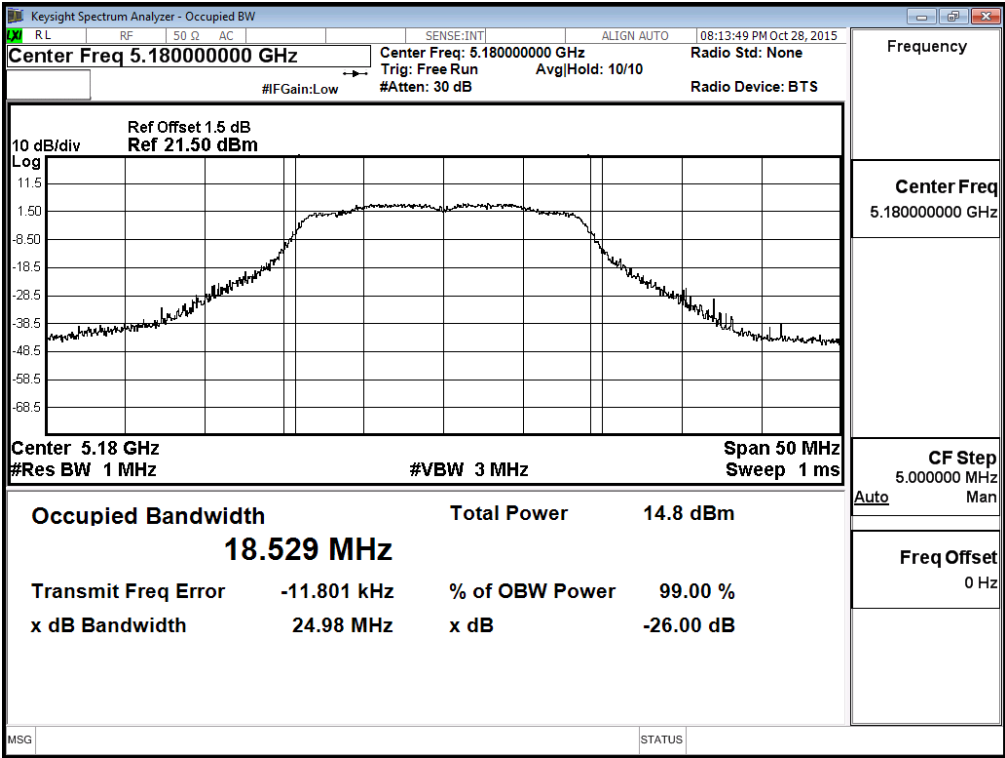
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
36	5180	18.529	10.91	17	16.68
44	5220	18.468	11.34	17	16.66
48	5240	18.469	11.31	17	16.66
52	5260	18.517	11.72	24	23.68
60	5300	18.503	11.98	24	23.67
64	5320	18.549	12.22	24	23.68
100	5500	18.453	10	24	23.66
120	5600	18.421	11.48	24	23.65
140	5700	18.462	8.03	24	23.66

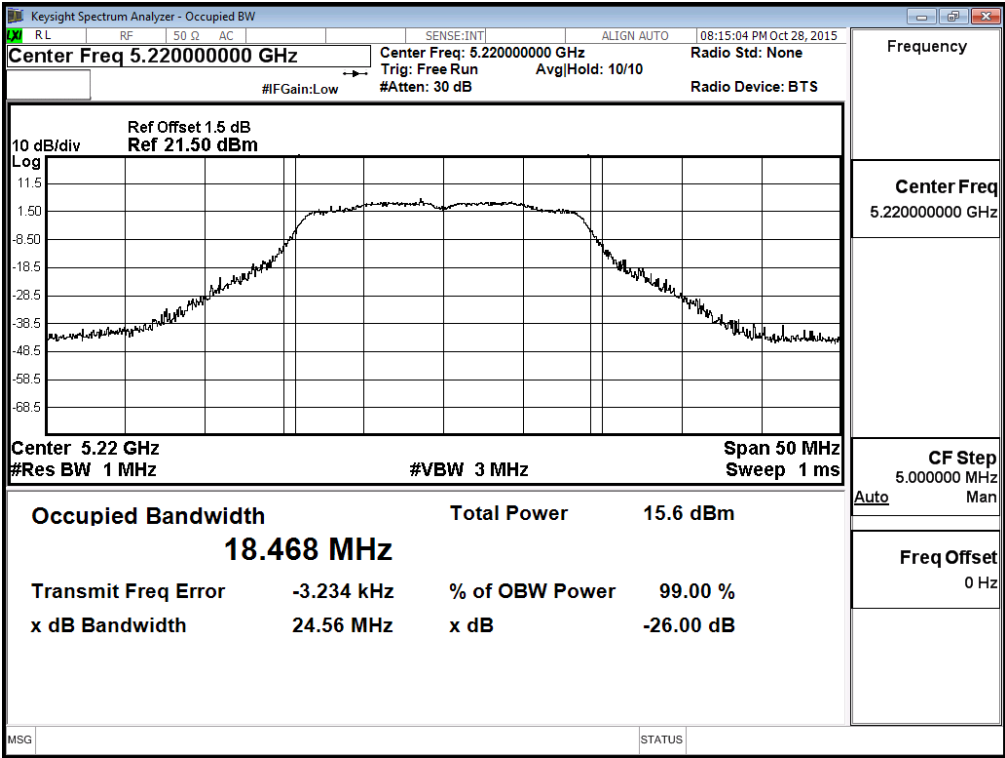
Note:

4. Power Output Value = Reading value on average power meter + cable loss
5. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
6. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

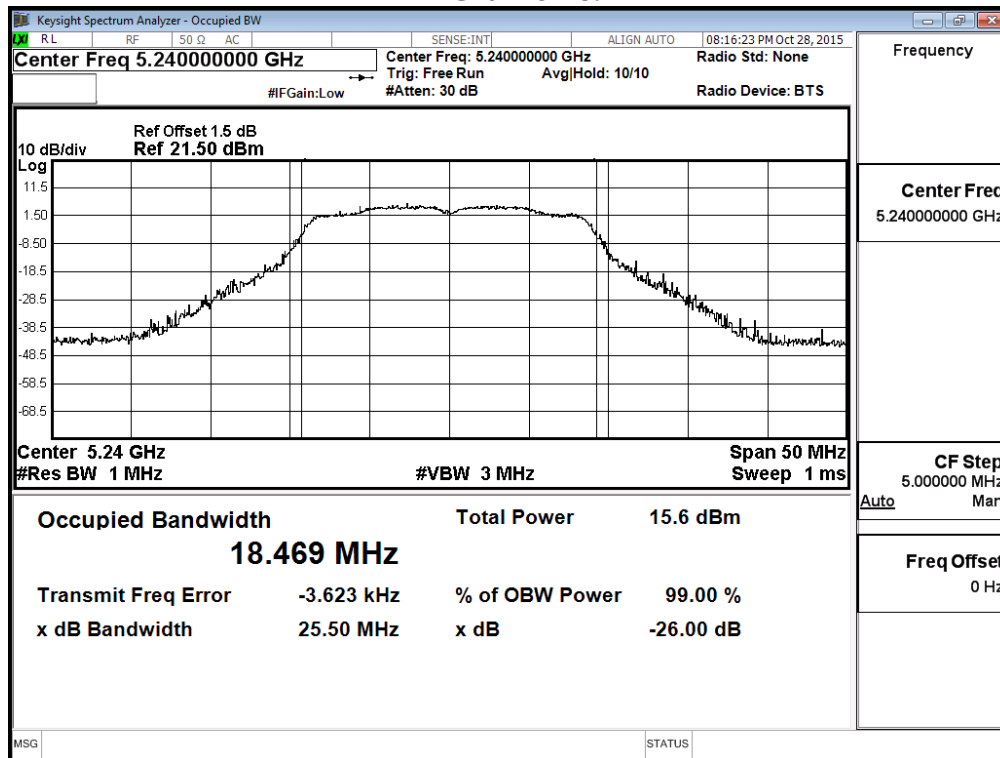
**26dBc Occupied Bandwidth:
Channel 36:**



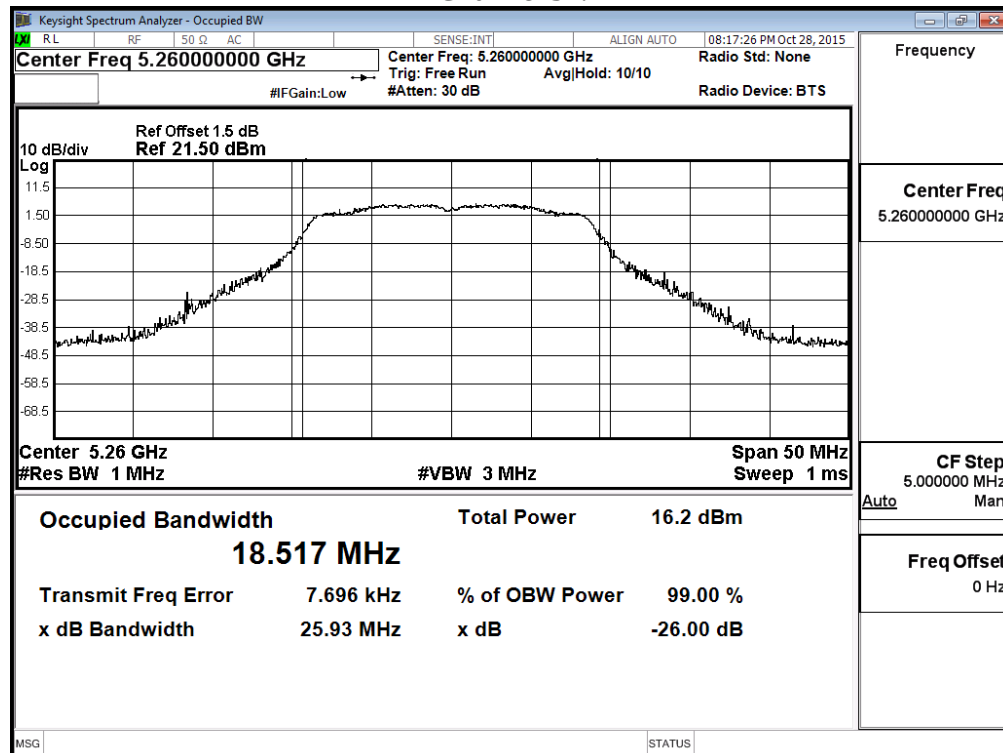
Channel 44:



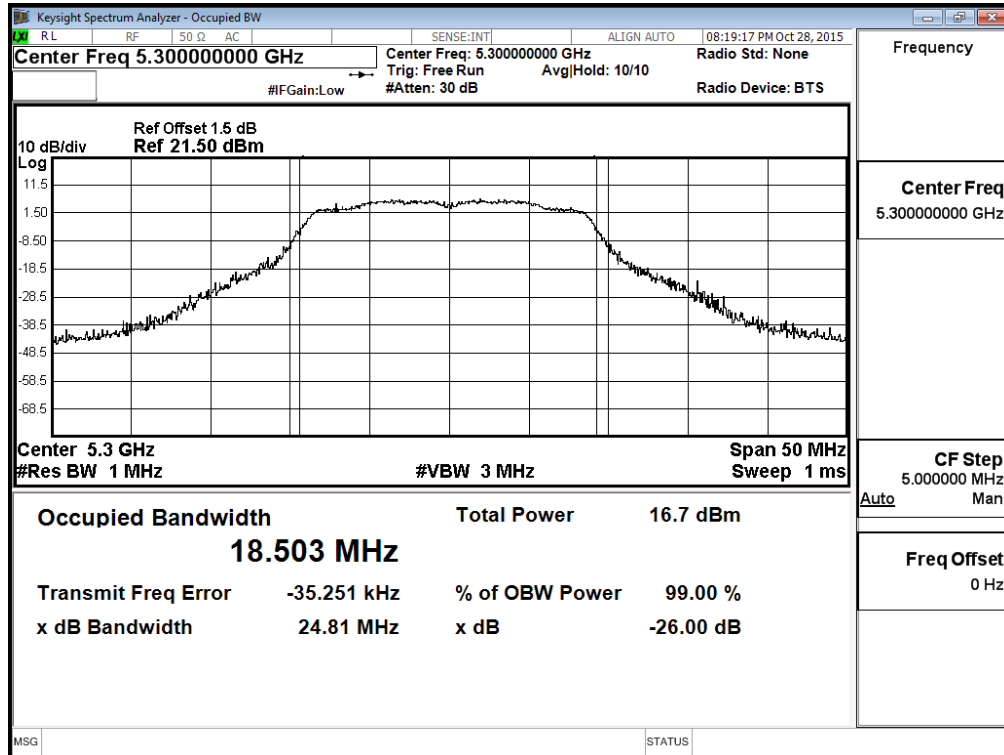
Channel 48:



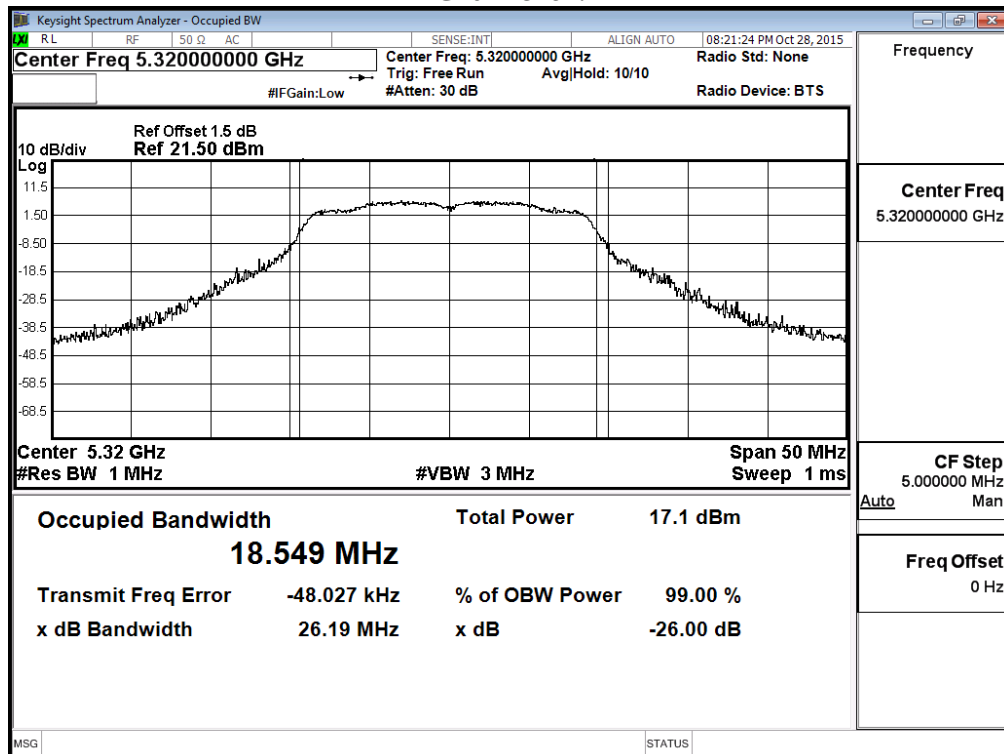
Channel 52:



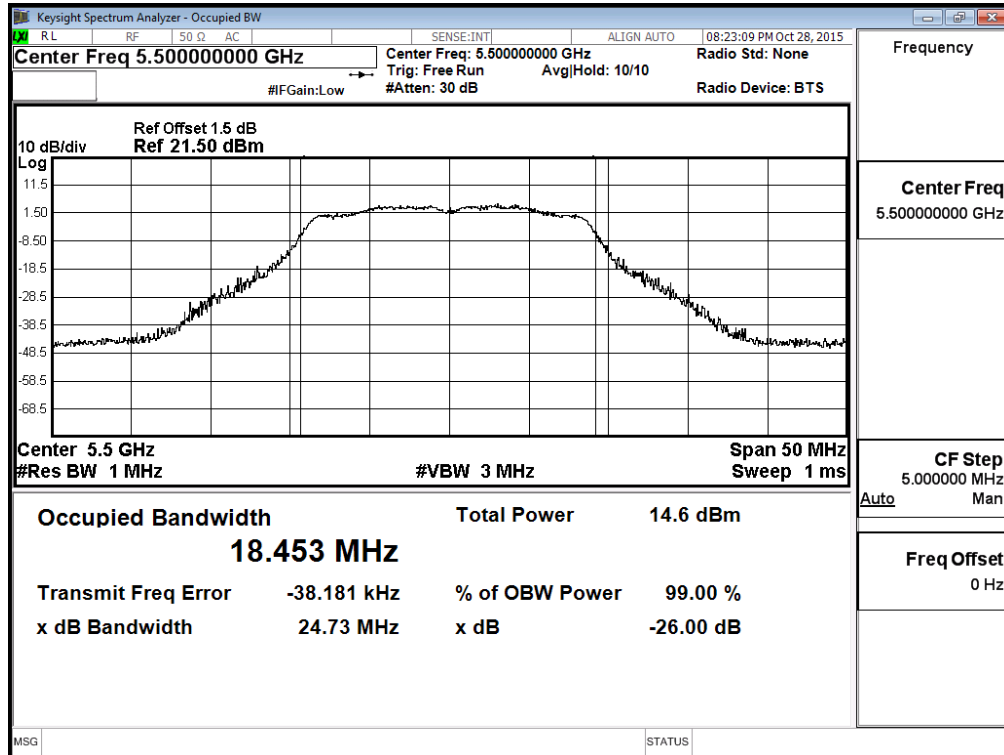
Channel 60:



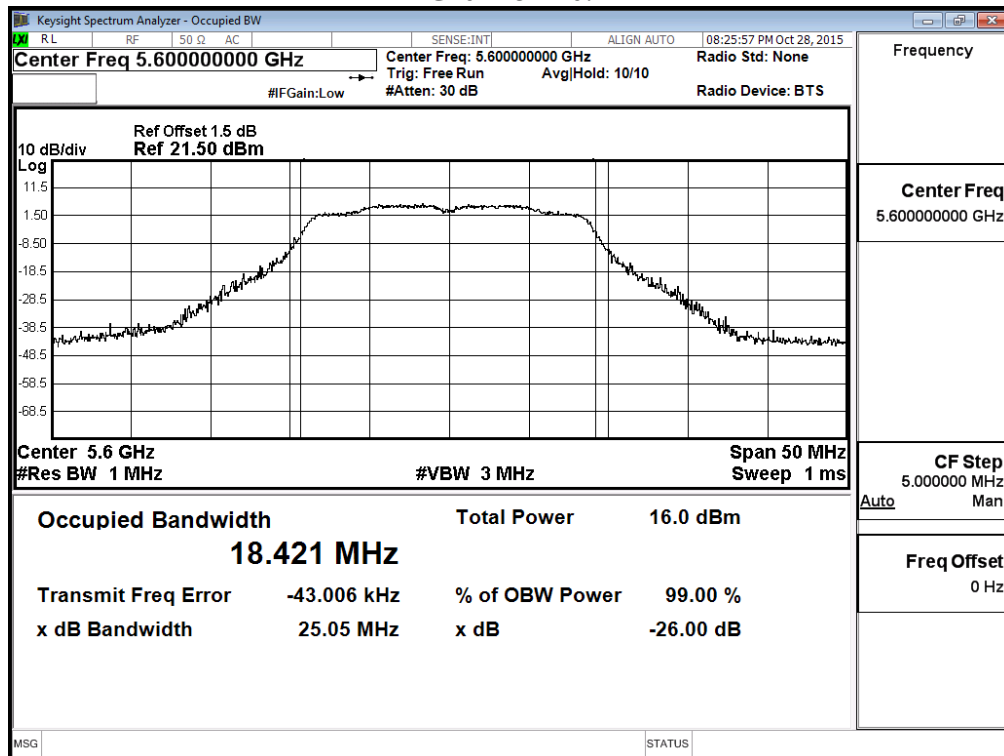
Channel 64:



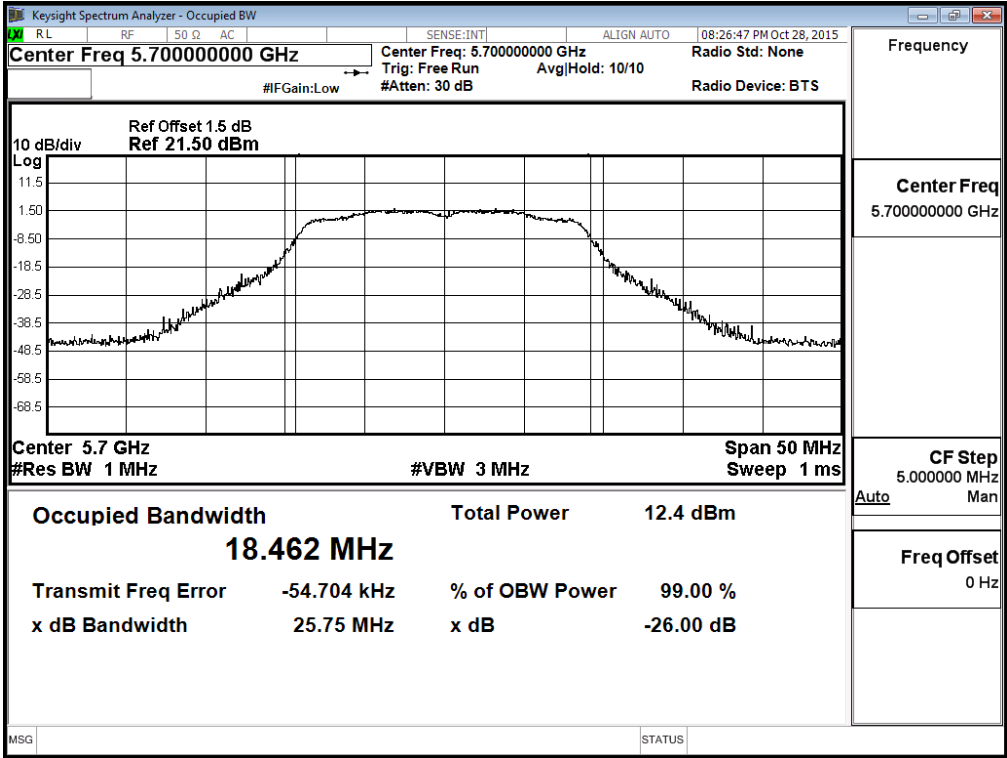
Channel 100:



Channel 120:



Channel 140:



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	10.03	9.79	9.53	9.28	9.03	8.78	8.53	8.28	<17dBm
46	5230	10.83	--	--	--	--	--	--	--	<17dBm
54	5270	11.13	10.97	10.64	10.42	10.18	9.93	9.69	9.44	<24dBm
62	5310	11.82	--	--	--	--	--	--	--	<24dBm
102	5510	9.43	--	--	--	--	--	--	--	<24dBm
118	5590	11.00	10.87	10.54	10.34	10.11	9.88	9.65	9.42	<24dBm
134	5670	9	--	--	--	--	--	--	--	<24dBm

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

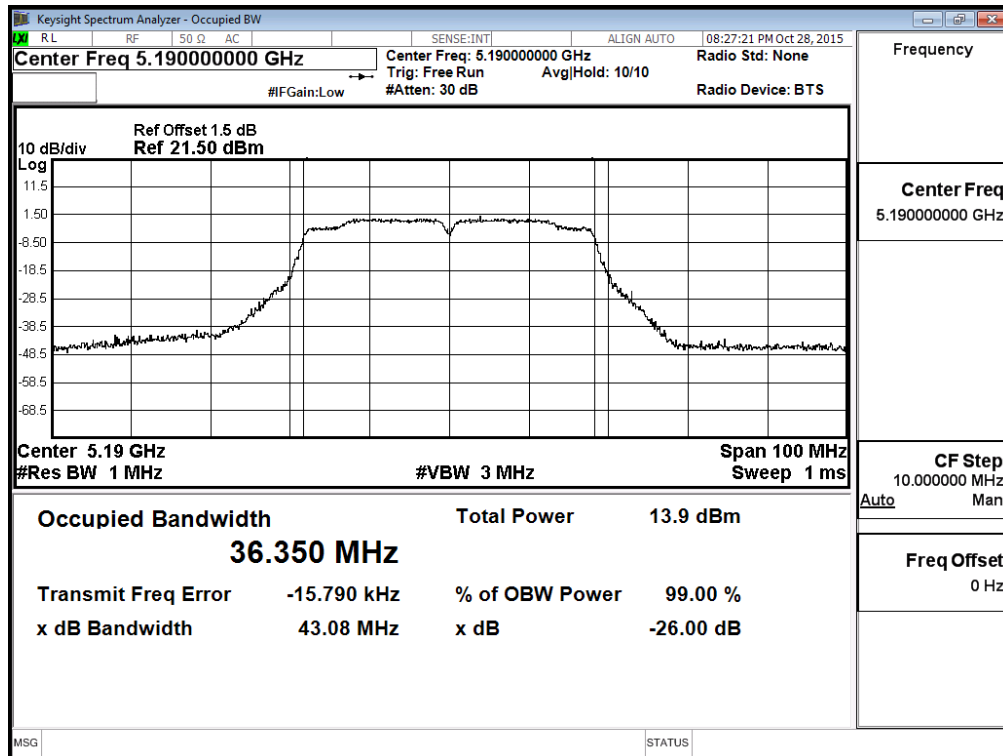
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Output Power (dBm)	Output Power Limit	
				(dBm)	dBm+10log(BW)
38	5190	36.350	10.03	17	19.61
46	5230	36.232	10.83	17	19.59
54	5270	36.283	11.13	24	26.60
62	5310	36.329	11.82	24	26.60
102	5510	36.291	9.43	24	26.60
118	5590	36.263	11	24	26.59
134	5670	36.297	9	24	26.60

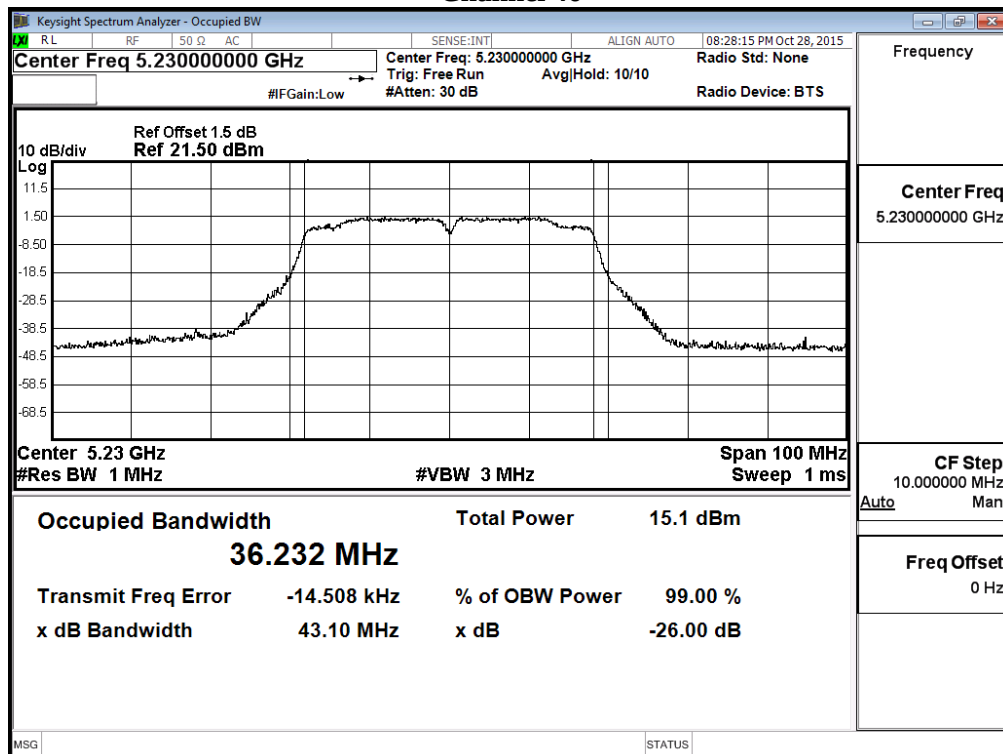
Note:

4. Power Output Value = Reading value on average power meter + cable loss
5. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
6. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

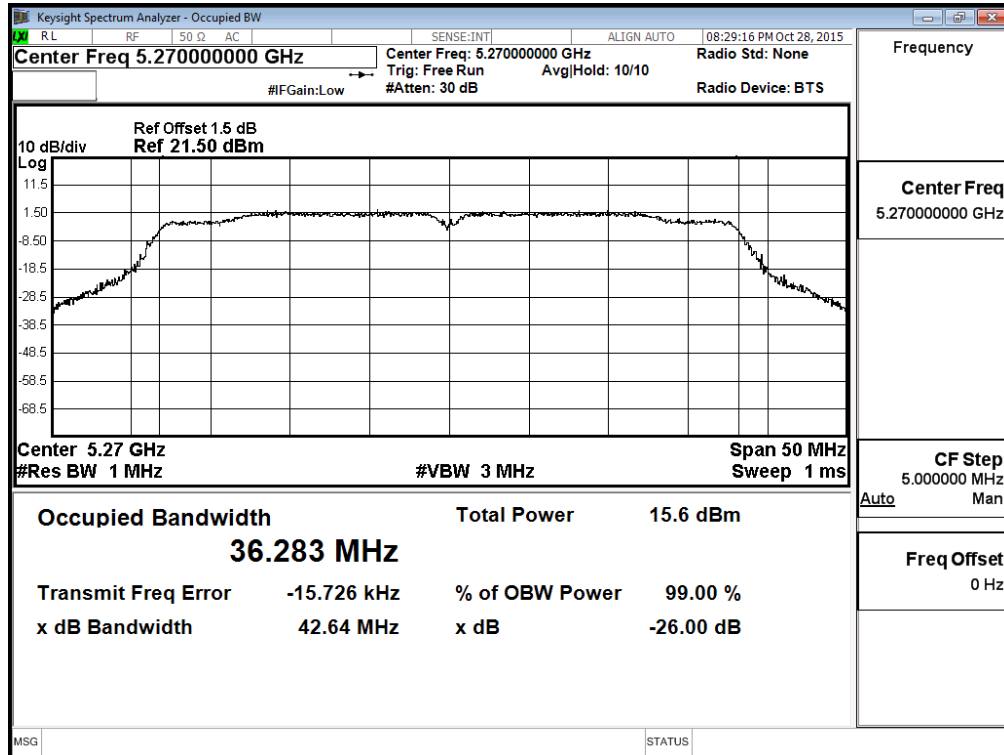
26dBc Occupied Bandwidth: Channel 38



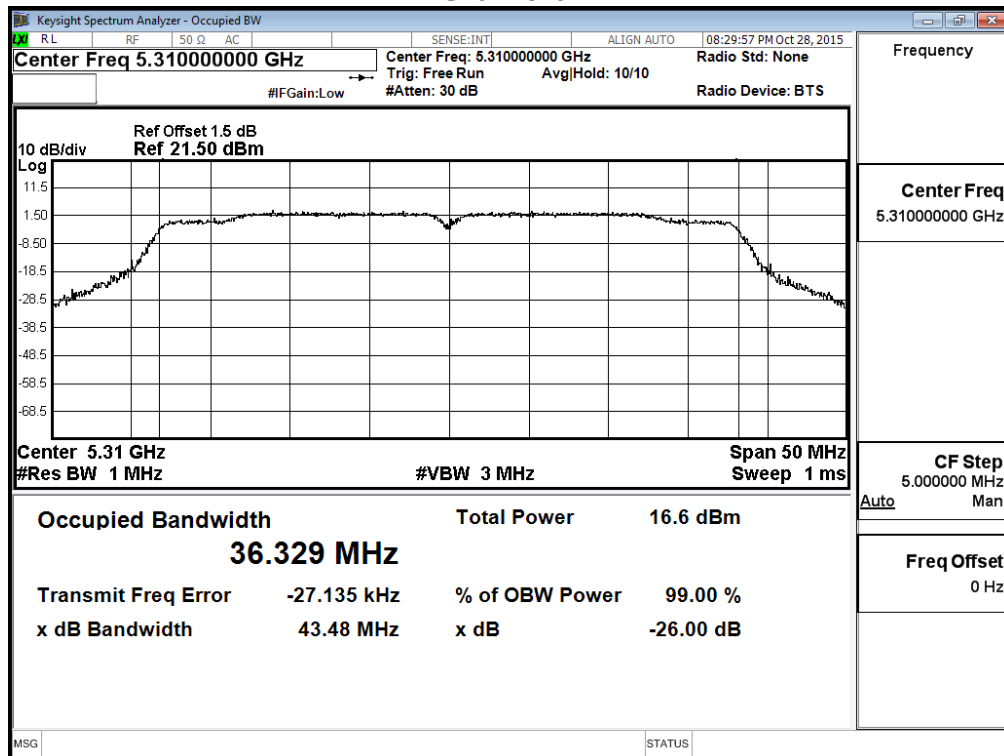
Channel 46



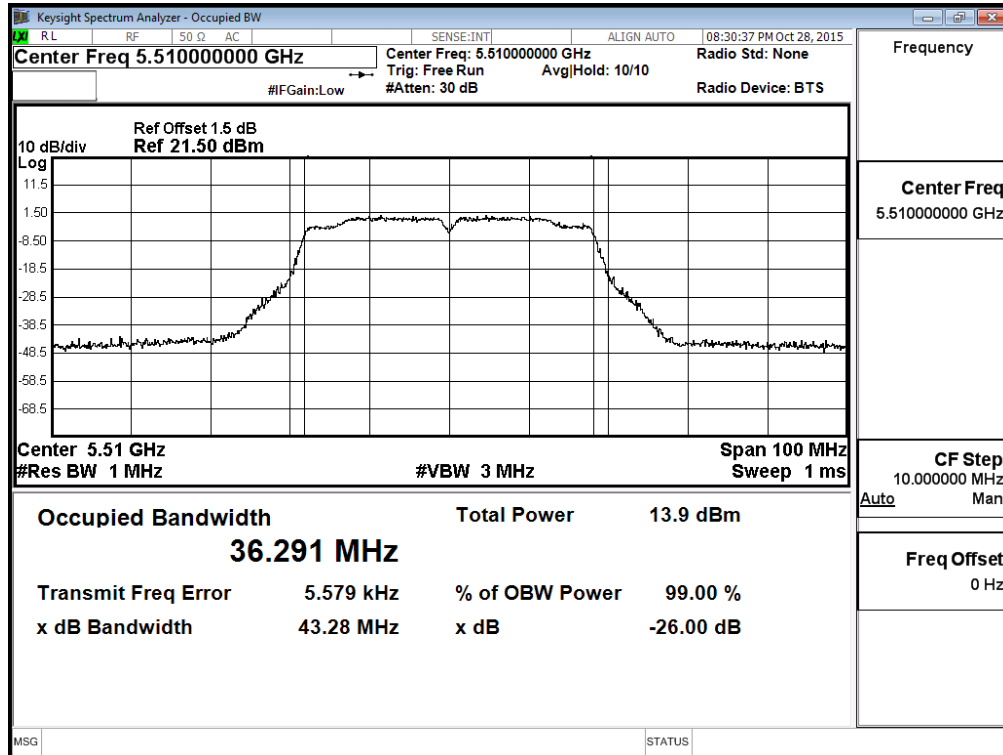
Channel 54



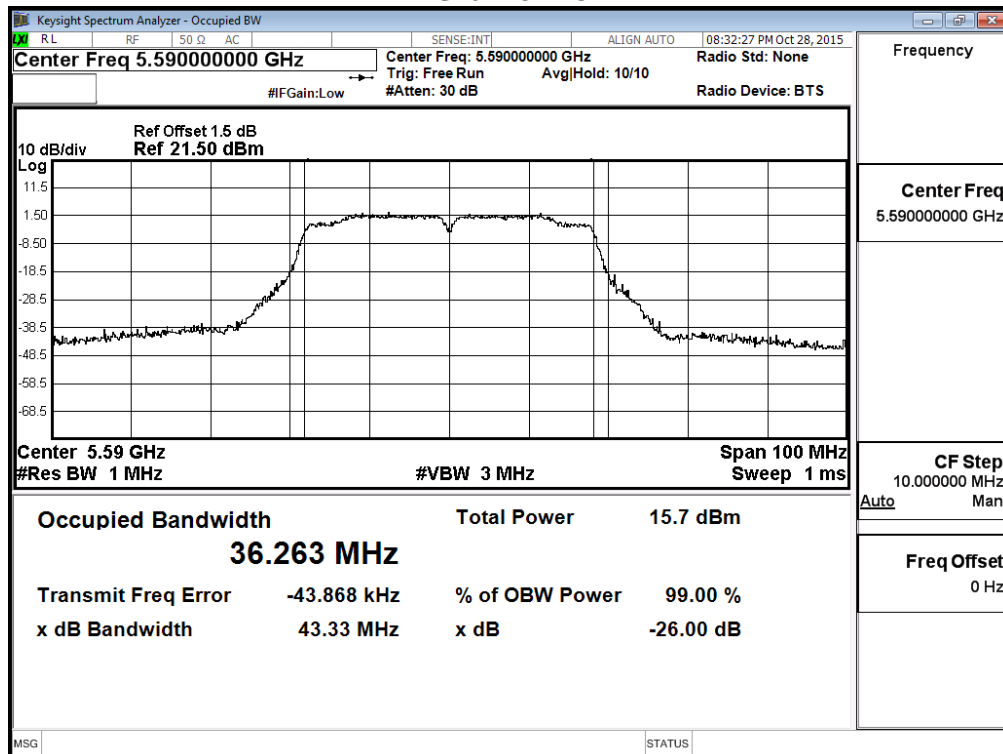
Channel 62

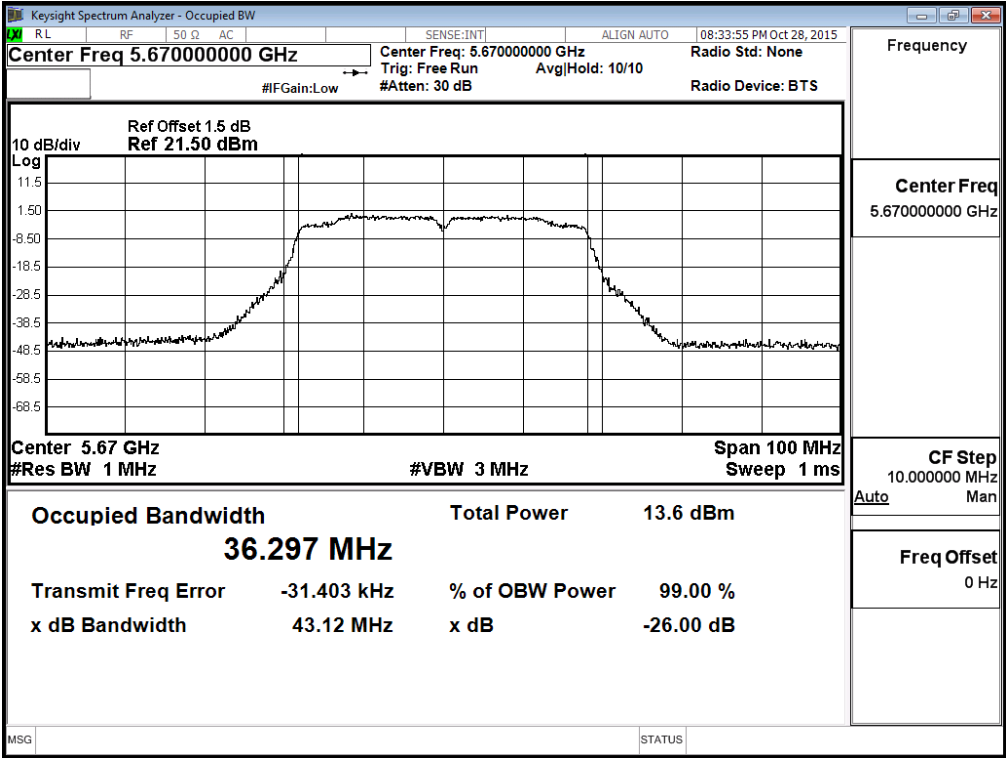


Channel 102



Channel 118





Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	7.21	7.13	7.06	6.98	6.91	6.83	6.75	6.68	6.60	<24dBm
144 (Band4)	5720	0.59	0.48	0.39	0.27	0.17	0.06	-0.04	-0.15	-0.25	<30dBm

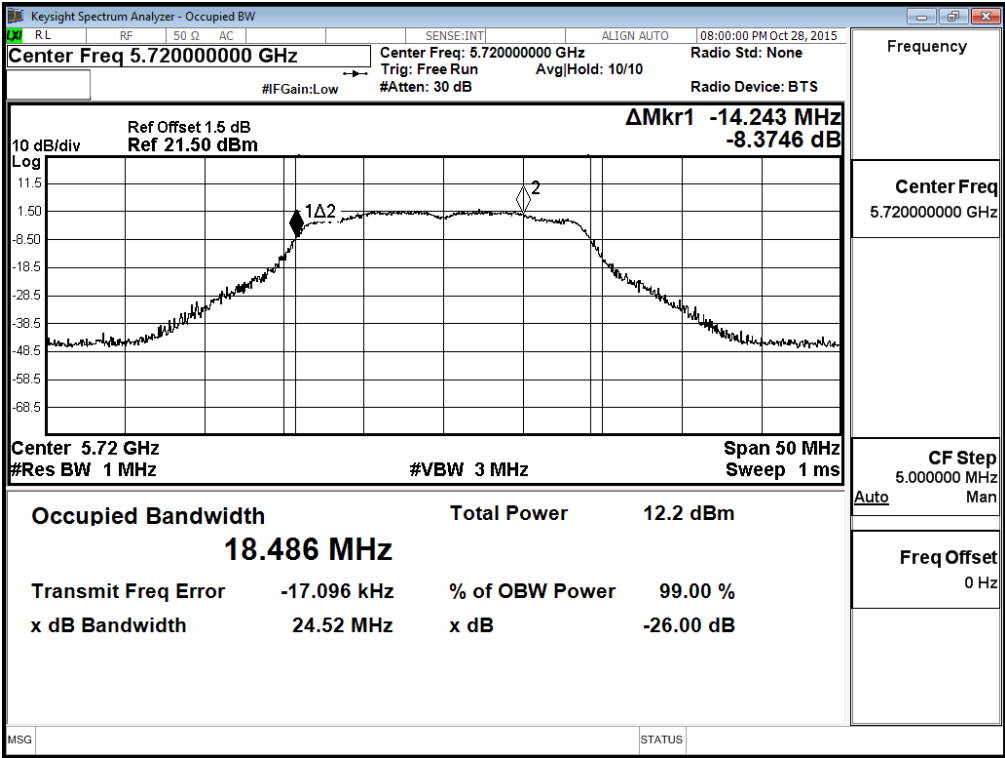
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Output Power (dBm)	Output Power Limit		Result
					(dBm)	dBm+10log(BW)	
144(Band3)	5720	14.243	7.21	7.21	24	22.54	Pass
144(Band4)	5720	4.243	0.59	0.59	30	17.28	Pass

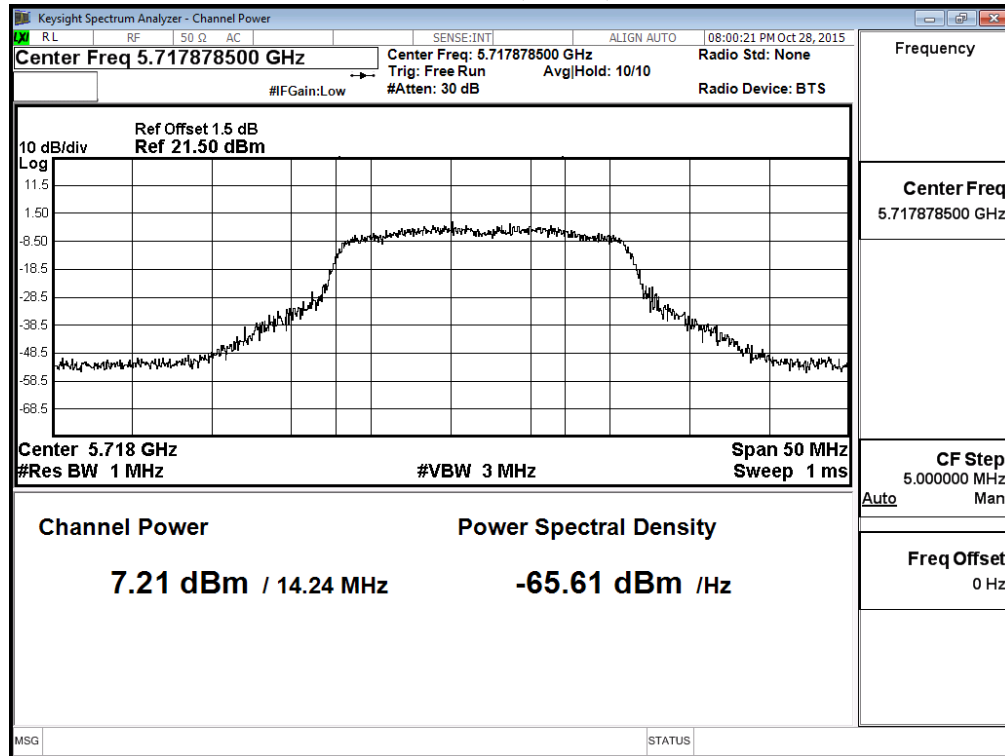
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:
 Channel 144

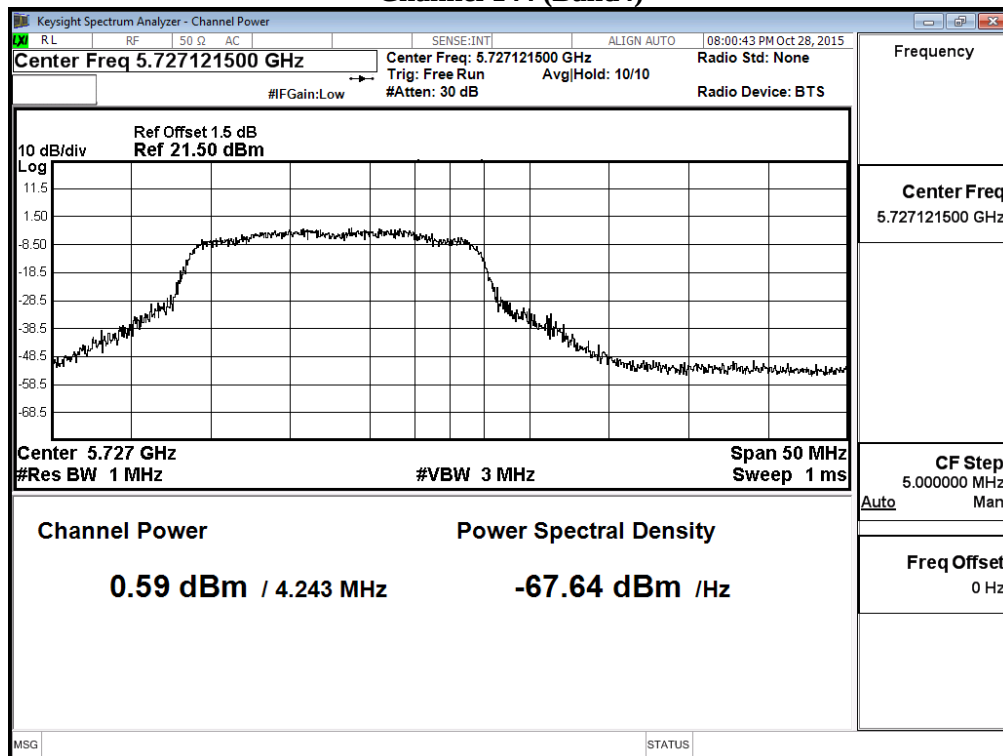


Maximum conducted output power:

Channel 144 (Band3)



Channel 144 (Band4)



Product : INTEL DUAL BAND WIRELESS-AC 7265
 Test Item : Maximum conducted output power
 Test Site : No.3 OATS
 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	7.78	7.69	7.6	7.51	7.42	7.33	7.24	7.15	7.06	6.97	<24dBm
142F(Band4)	5710	-5.10	-5.21	-5.34	-5.48	-5.60	-5.73	-5.85	-5.98	-6.11	-6.24	<30dBm

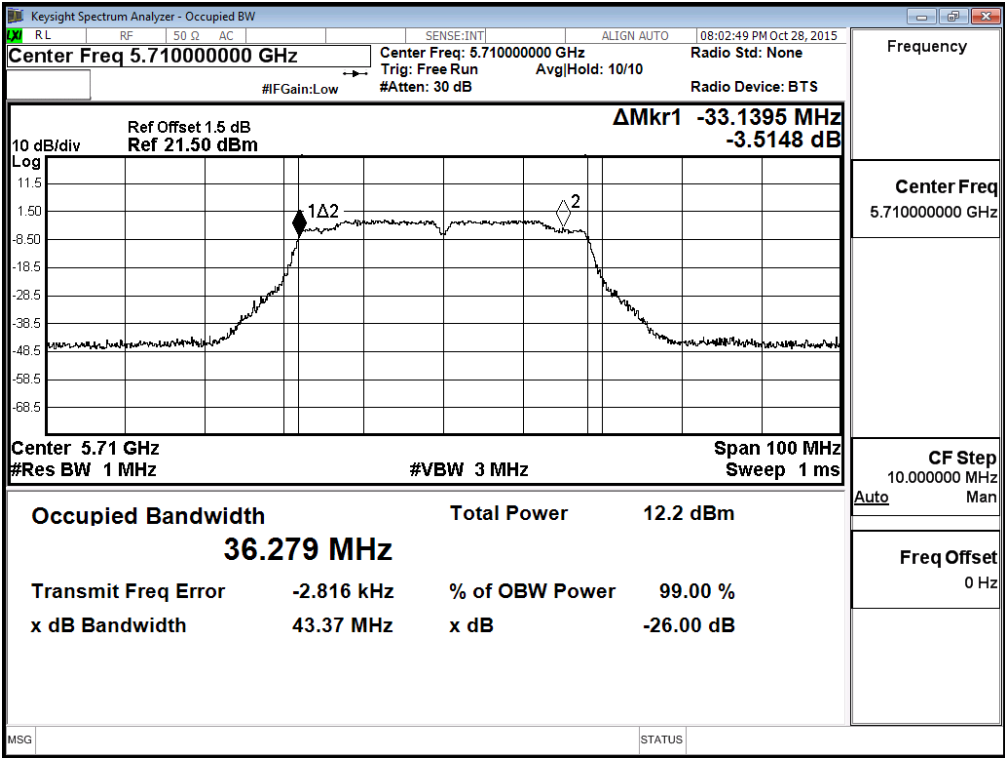
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

Channel No	Frequency Range	26dB Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
142F(Band3)	5710	33.140	7.78	7.78	24	26.20	Pass
142F(Band4)	5710	3.139	-5.10	-5.10	30	15.97	Pass

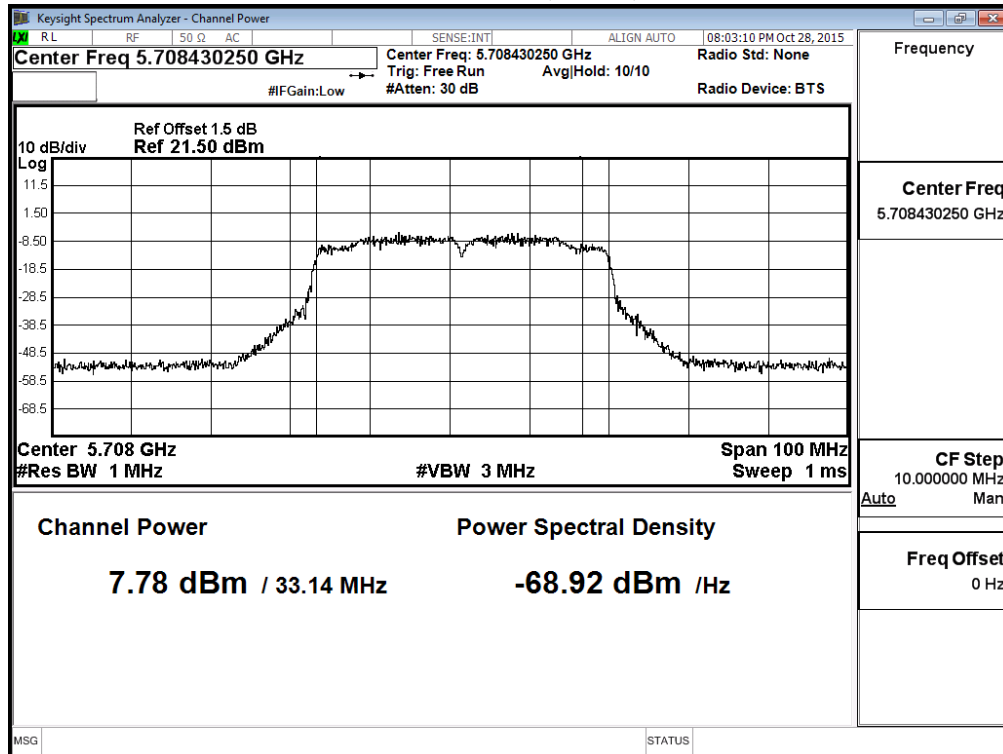
Note: Power Output Value =Reading value on average power meter + cable loss

26dBc Occupied Bandwidth:
 Channel 142

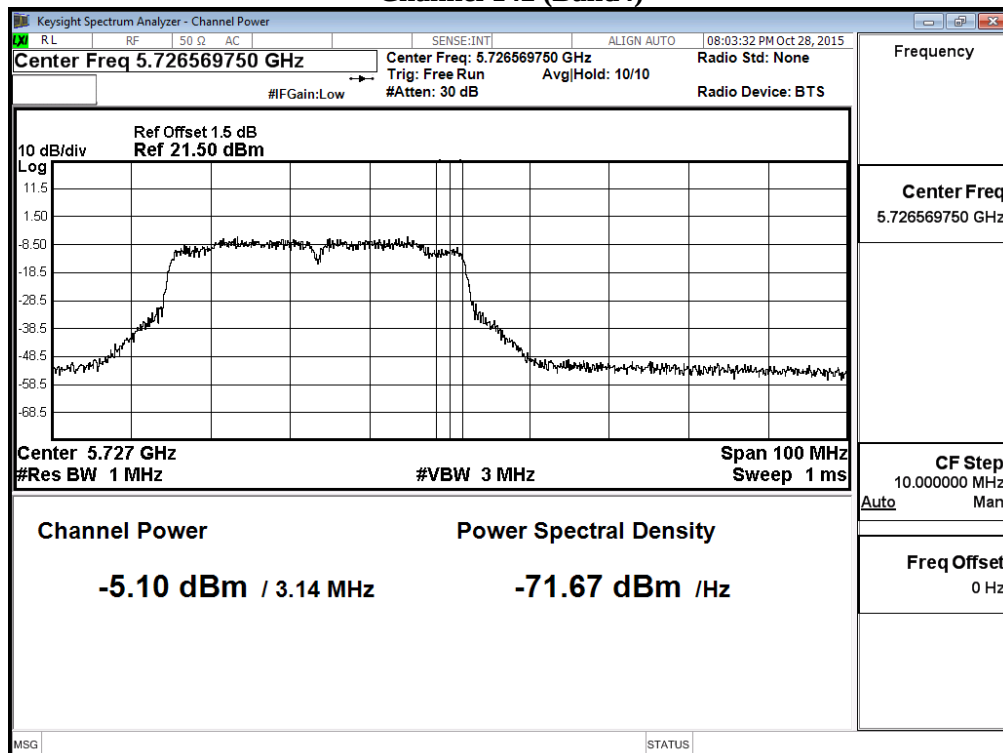


Maximum conducted output power:

Channel 142 (Band3)



Channel 142 (Band4)



Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
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	10.16	10.12	10.07	10.01	9.97	9.92	9.87	9.82	9.77	9.72	<24dBm
58	5290	11.43	11.32	11.23	11.14	11.04	10.94	10.85	10.75	10.66	10.56	<24dBm
106	5530	8.75	8.68	8.57	8.45	8.36	8.26	8.16	8.06	7.96	7.86	<24dBm
122	5610	9.11	9.05	9.01	8.94	8.81	8.76	8.64	8.52	8.43	8.34	<24dBm
138(Band3)	5690	7.43	7.34	7.22	7.10	7.00	6.88	6.77	6.66	6.55	6.44	<24dBm
138(Band4)	5690	-8.17	-8.29	-8.41	-8.53	-8.65	-8.77	-8.89	-9.01	-9.13	-9.25	<30dBm

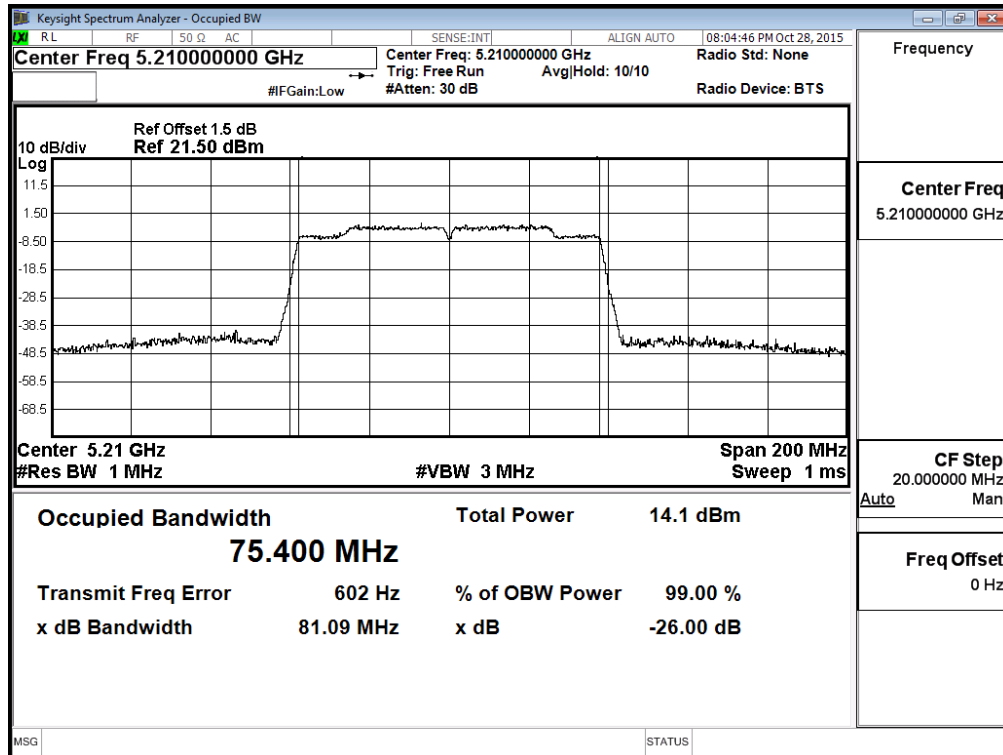
Note: Maximum conducted output power Value =Reading value on average power meter + cable loss

Maximum conducted output power Measurement:

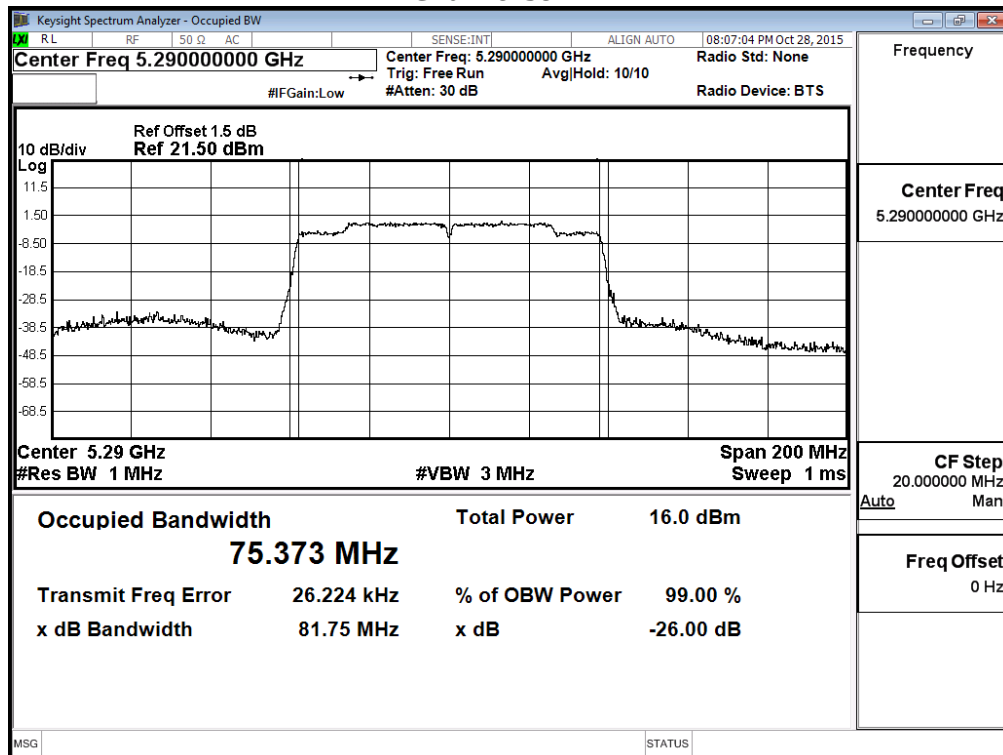
Channel No	Frequency Range	26dB Bandwidth	Chain A Power	Output Power	Output Power Limit		Result
	(MHz)	(MHz)	(dBm)	(dBm)	(dBm)	dBm+10log(BW)	
42	5210	75.400	10.16	10.16	17	29.77	Pass
58	5290	75.373	11.43	11.43	17	29.77	Pass
106	5530	75.292	8.75	8.75	24	29.77	Pass
122	5610	75.432	9.11	9.11	24	29.78	Pass
138	5690	72.672	7.43	7.43	24	29.61	Pass
138ac80(Band4)	5690	2.673	-8.17	-8.17	30	21.27	Pass

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

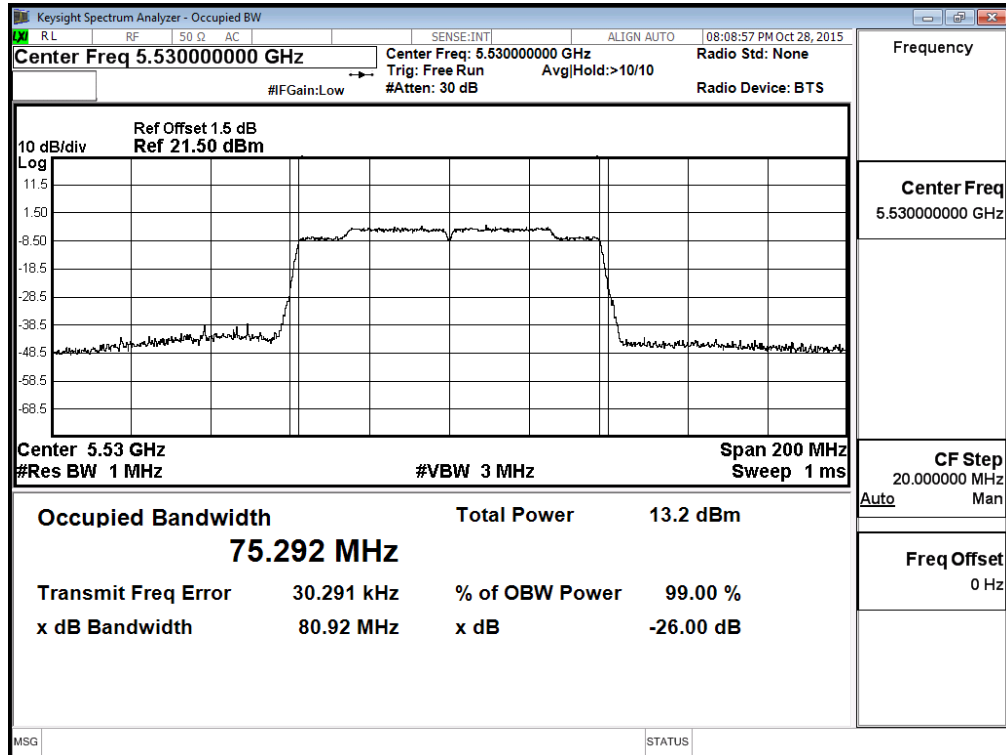
26dBc Occupied Bandwidth: Channel 42



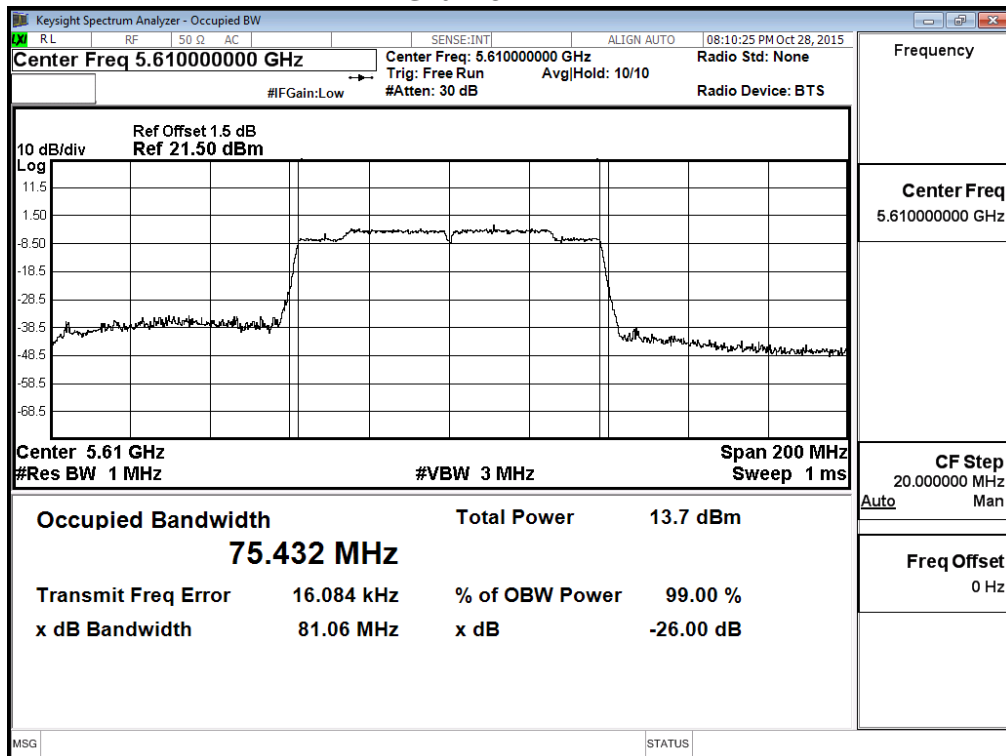
Channel 58



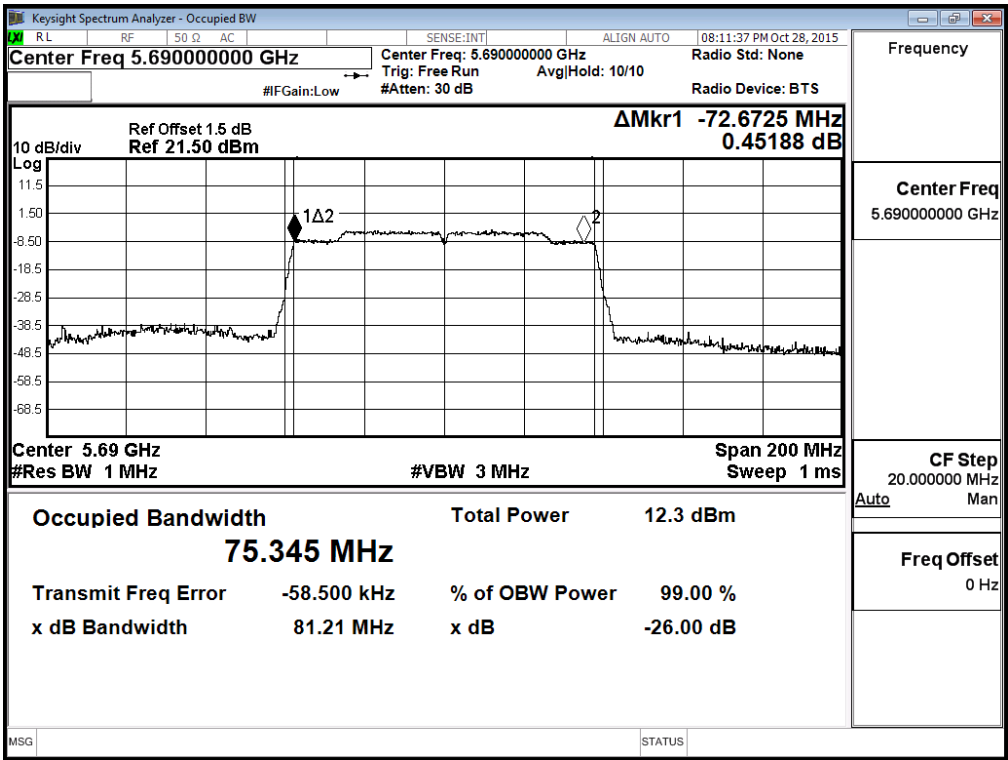
Channel 106



Channel 122

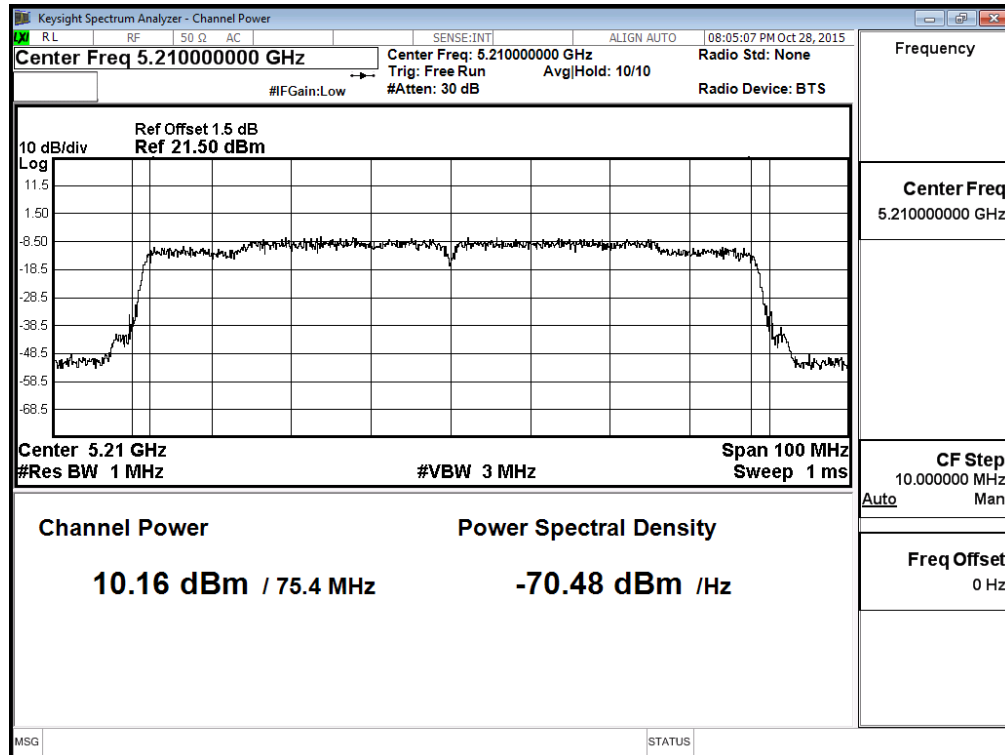


Channel 138



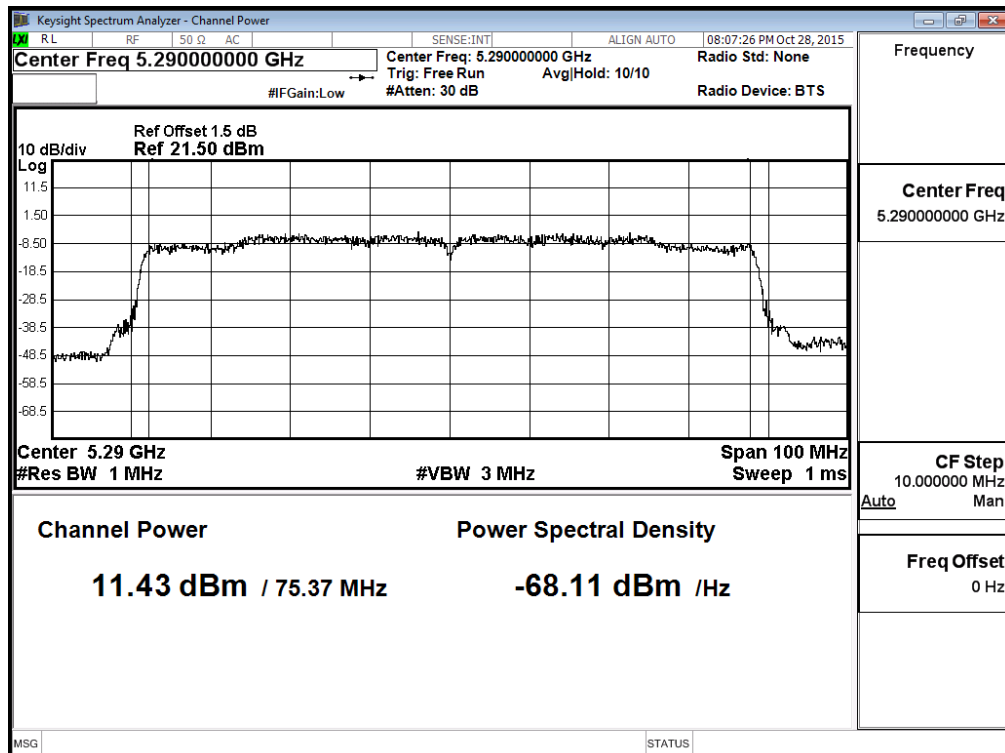
Maximum conducted output power:

Channel 42



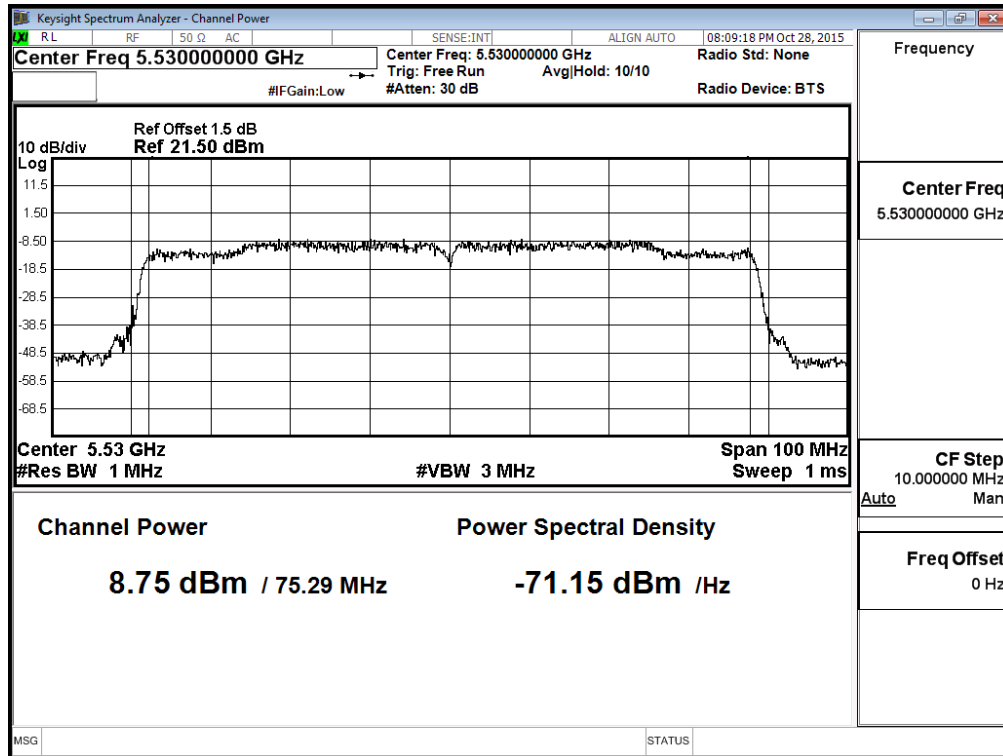
Maximum conducted output power:

Channel 58



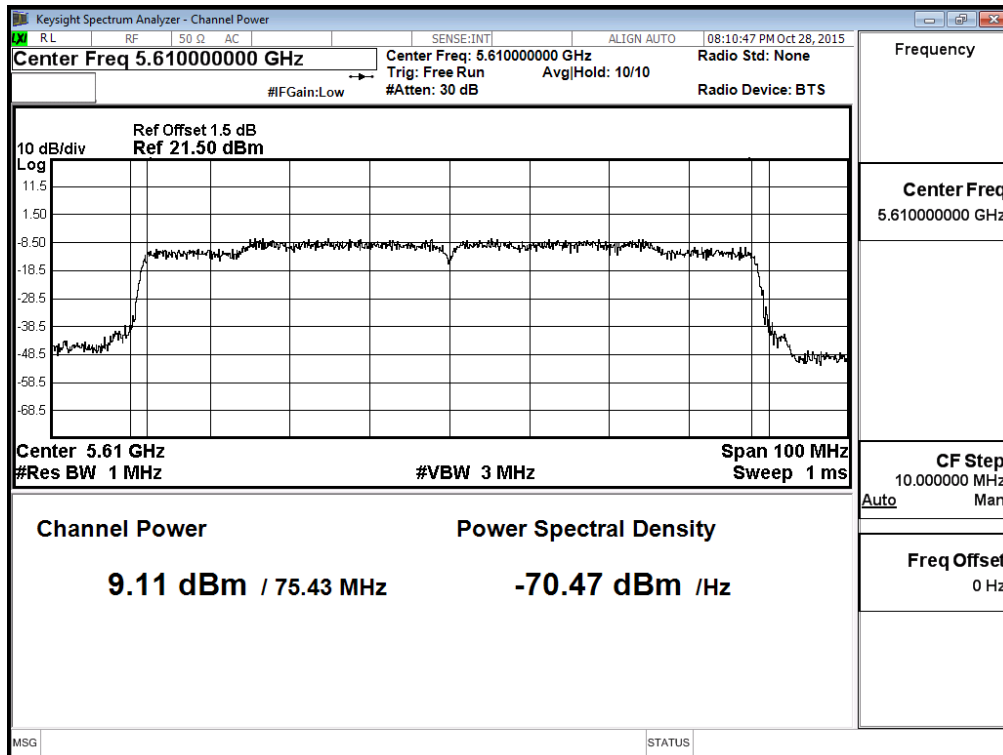
Maximum conducted output power:

Channel 106

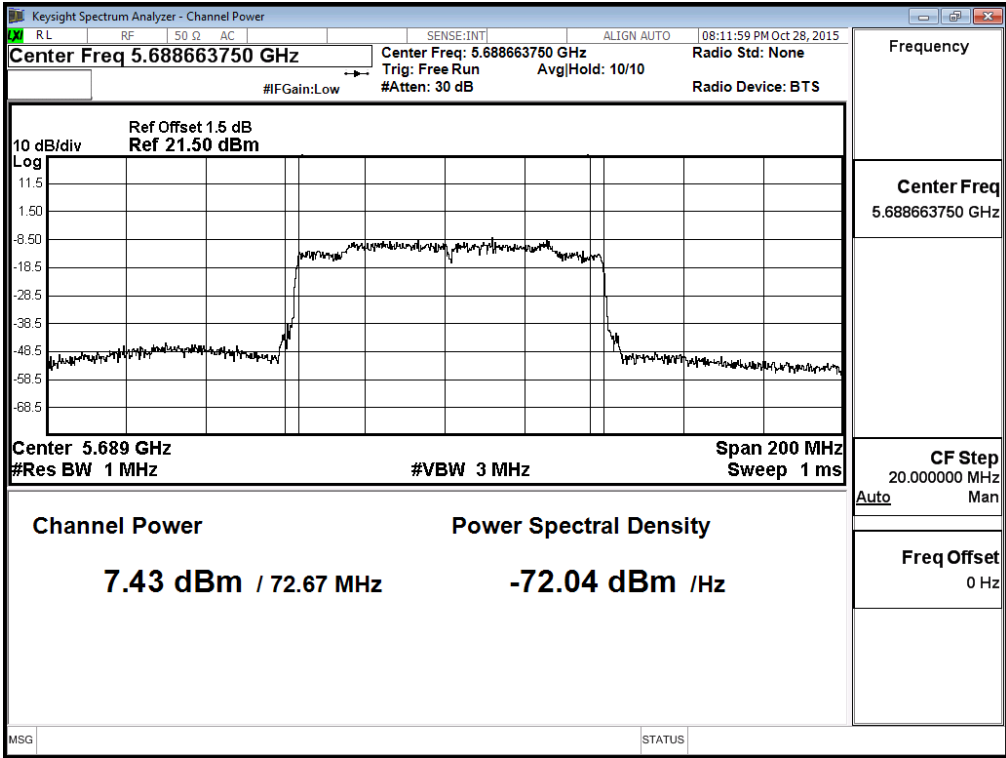


Maximum conducted output power:

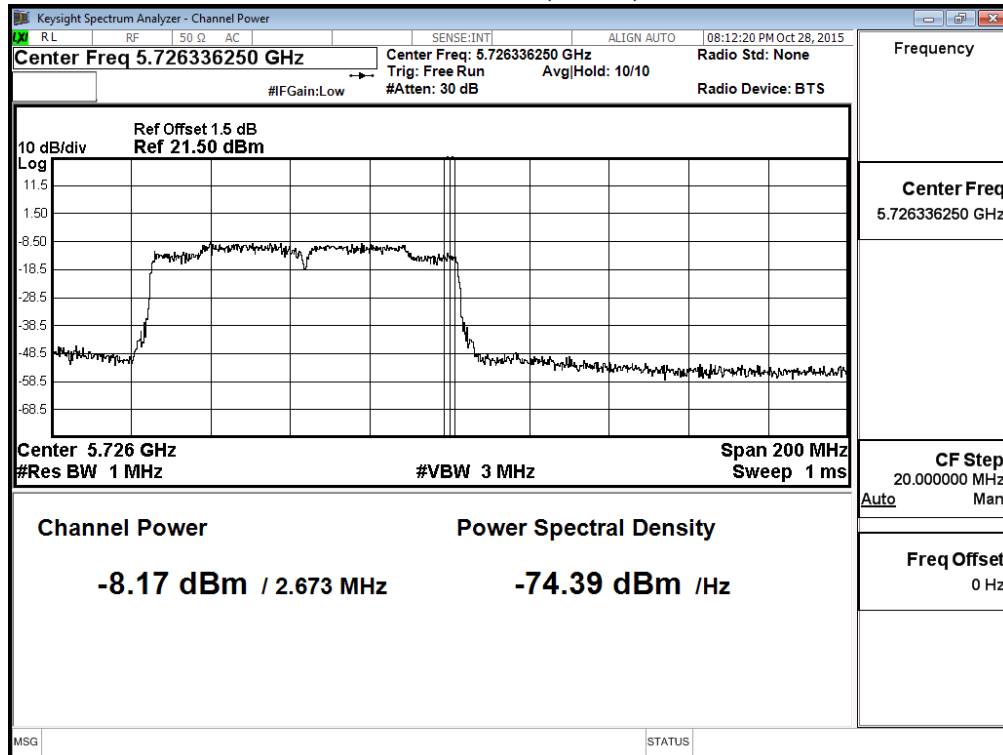
Channel 122



Maximum conducted output power:
Channel 138 (Band3)



Maximum conducted output power:
 Channel 138 (Band4)



Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
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	8.47	--	--	--	--	--	--	--	<17dBm
44	5220	9.55	9.46	9.37	9.38	9.25	9.16	9.04	8.95	<17dBm
48	5240	9.55	--	--	--	--	--	--	--	<17dBm
52	5260	11.5	--	--	--	--	--	--	--	<24dBm
60	5300	11.89	11.82	11.76	11.65	11.51	11.49	11.35	11.26	<24dBm
64	5320	12	--	--	--	--	--	--	--	<24dBm
100	5500	9.37	--	--	--	--	--	--	--	<24dBm
120	5600	8.82	8.73	8.64	8.52	8.49	8.35	8.26	8.14	<24dBm
140	5700	7.01	--	--	--	--	--	--	--	<24dBm

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	8.5	--	--	--	--	--	--	--	<17dBm
44	5220	9.73	9.65	9.53	9.49	9.36	9.24	9.16	9.02	<17dBm
48	5240	9.74	--	--	--	--	--	--	--	<17dBm
52	5260	11.14	--	--	--	--	--	--	--	<24dBm
60	5300	11.59	11.52	11.47	11.35	11.24	11.16	11.05	10.98	<24dBm
64	5320	11.06	--	--	--	--	--	--	--	<24dBm
100	5500	8.17	--	--	--	--	--	--	--	<24dBm
120	5600	8.42	8.35	8.26	8.19	8.04	7.96	7.85	7.76	<24dBm
140	5700	7.44	--	--	--	--	--	--	--	<24dBm

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

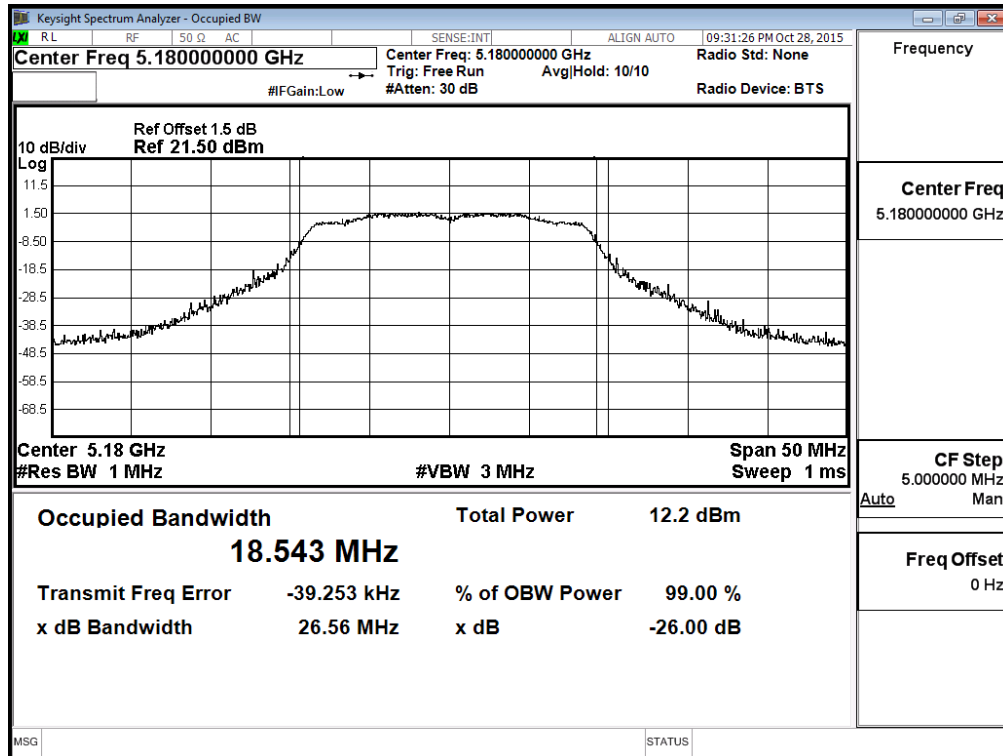
Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
36	5180	18.367	8.47	8.50	11.50	17	16.64
44	5220	18.375	9.55	9.73	12.65	17	16.64
48	5240	18.388	9.55	9.74	12.66	17	16.65
52	5260	18.349	11.50	11.14	14.33	24	23.64
60	5300	18.344	11.89	11.59	14.75	24	23.63
64	5320	18.390	12.00	11.06	14.57	24	23.65
100	5500	18.275	9.37	8.17	11.82	24	23.62
120	5600	18.329	8.82	8.42	11.63	24	23.63
140	5700	18.336	7.01	7.44	10.24	24	23.63

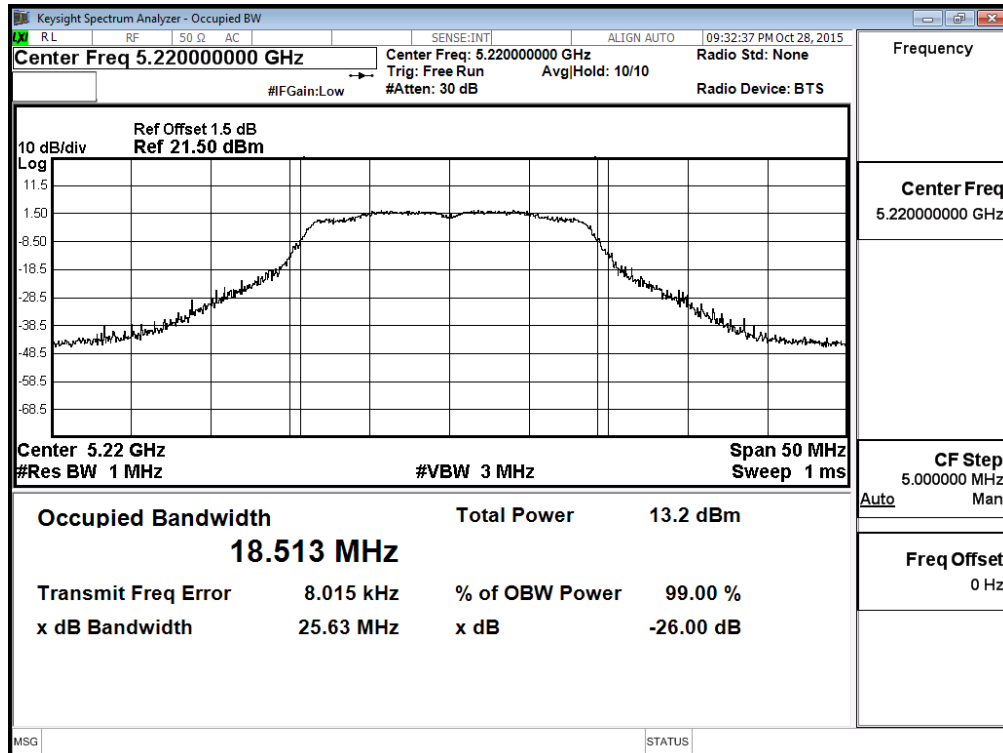
Note:

7. Power Output Value = Reading value on average power meter + cable loss
8. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
9. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.

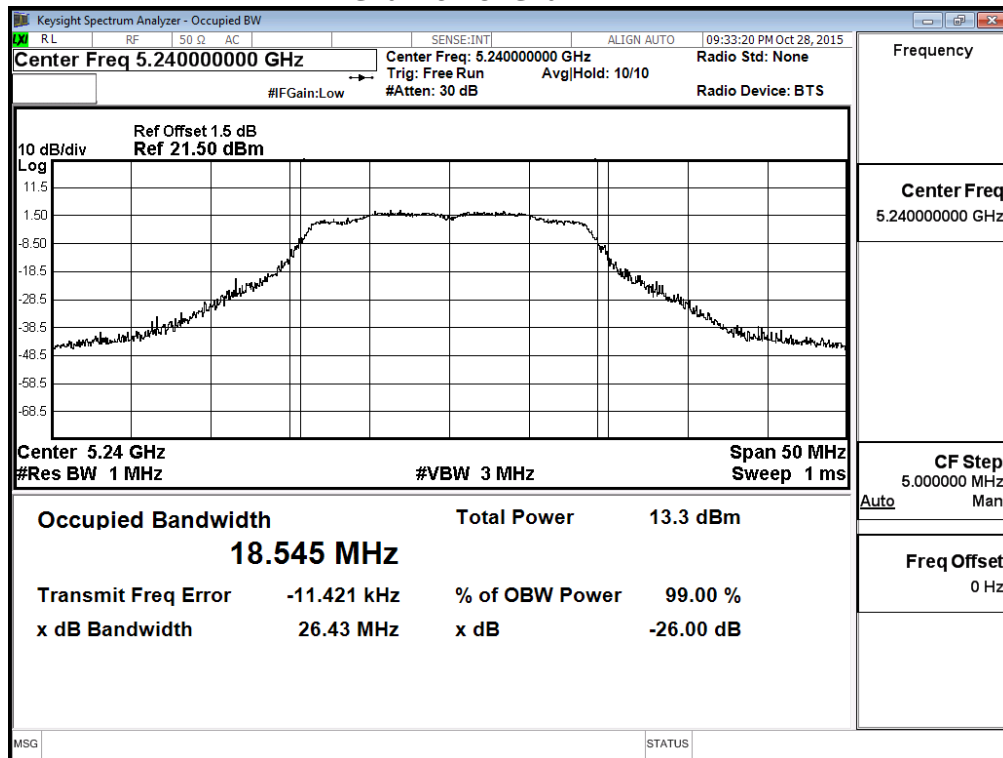
26dBc Occupied Bandwidth: Channel 36 -Chain A



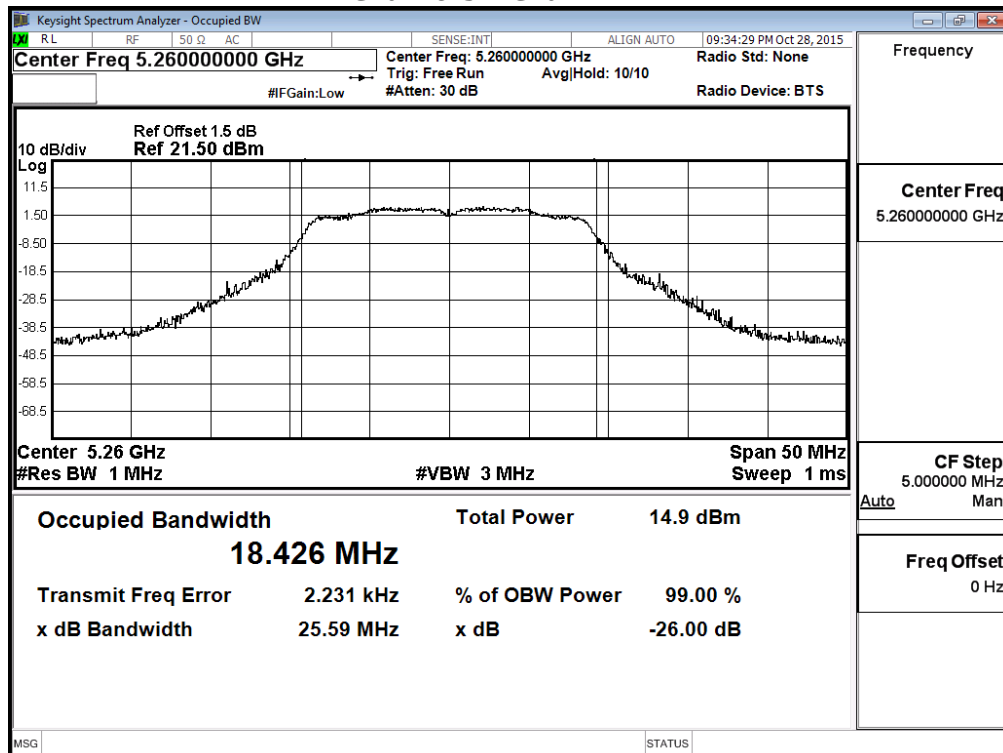
Channel 44 -Chain A



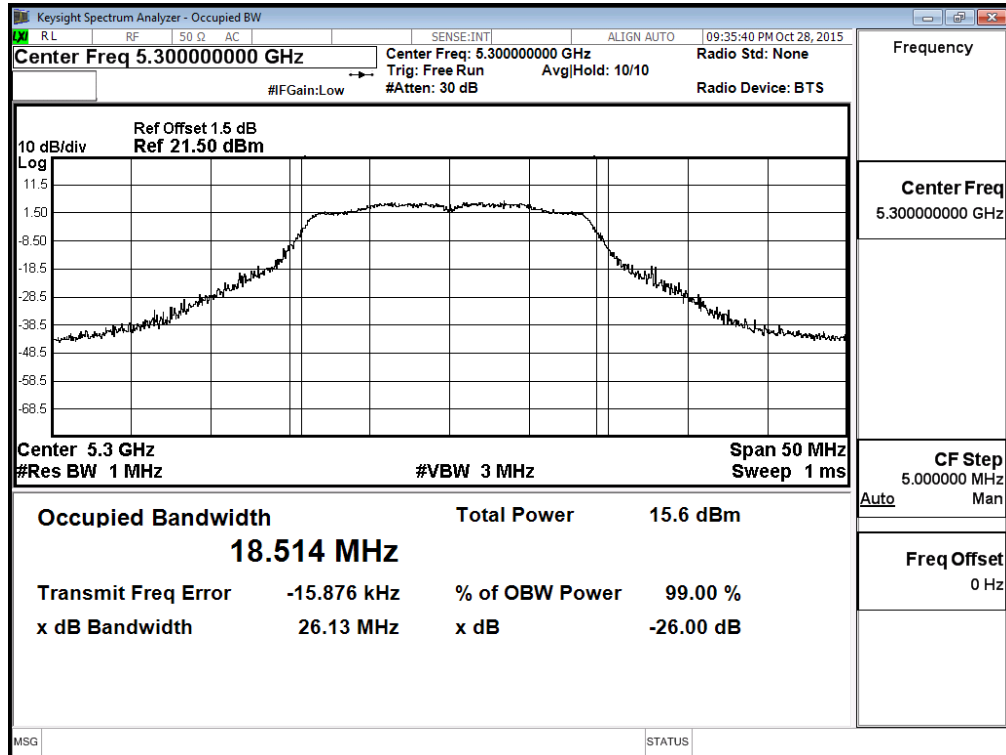
Channel 48 -Chain A



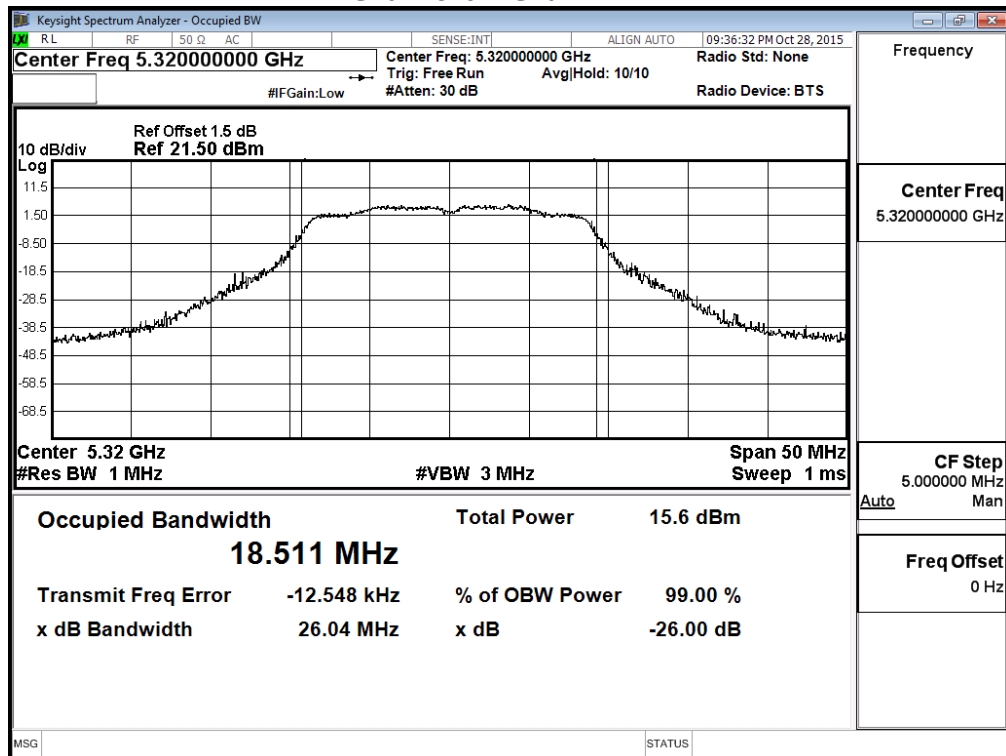
Channel 52 -Chain A



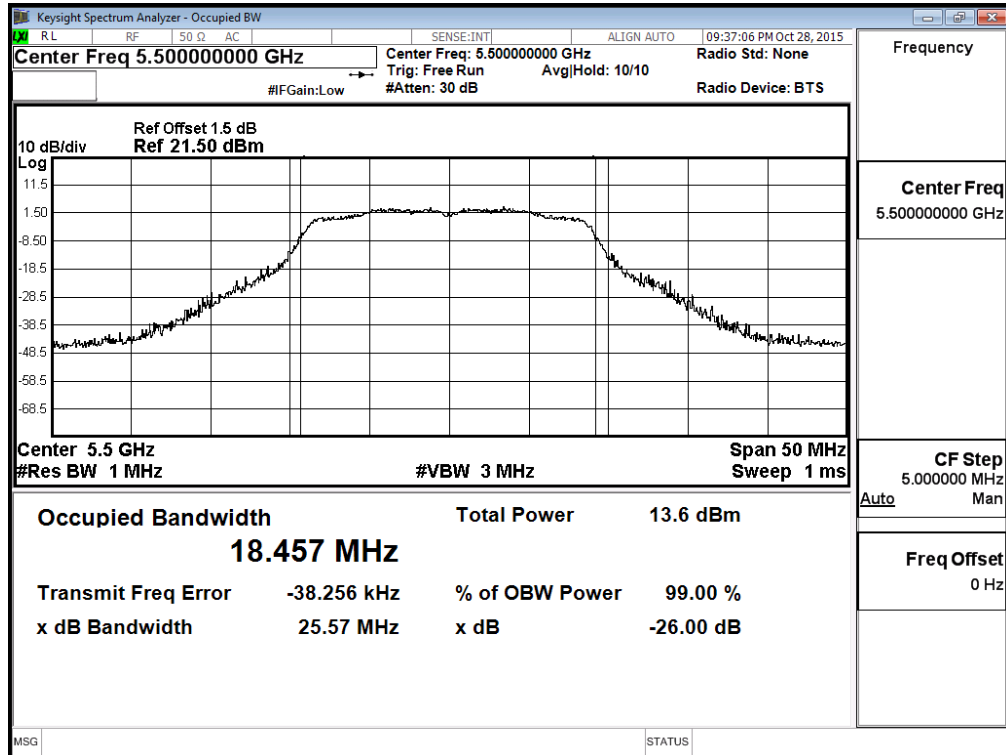
Channel 60 -Chain A



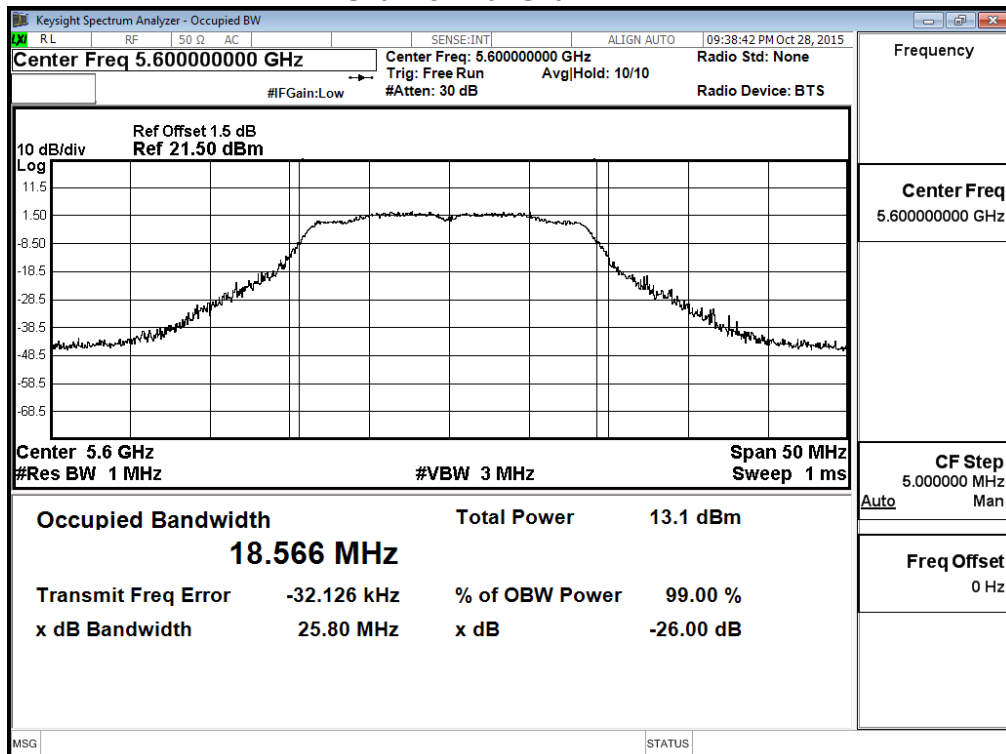
Channel 64 -Chain A



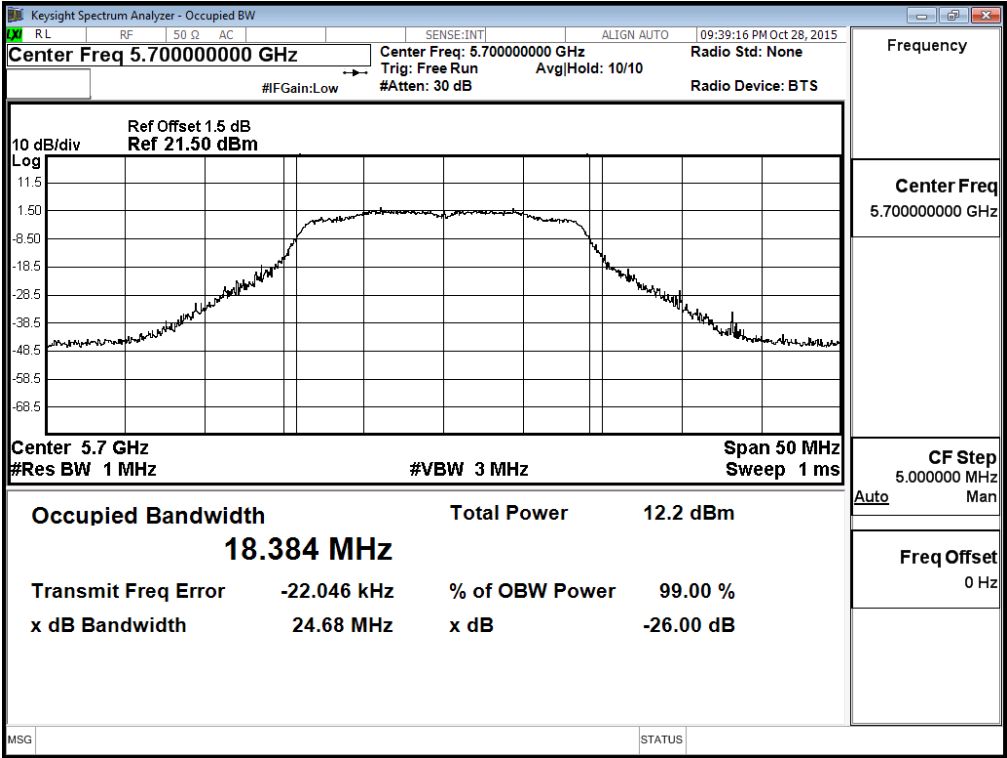
Channel 100 -Chain A



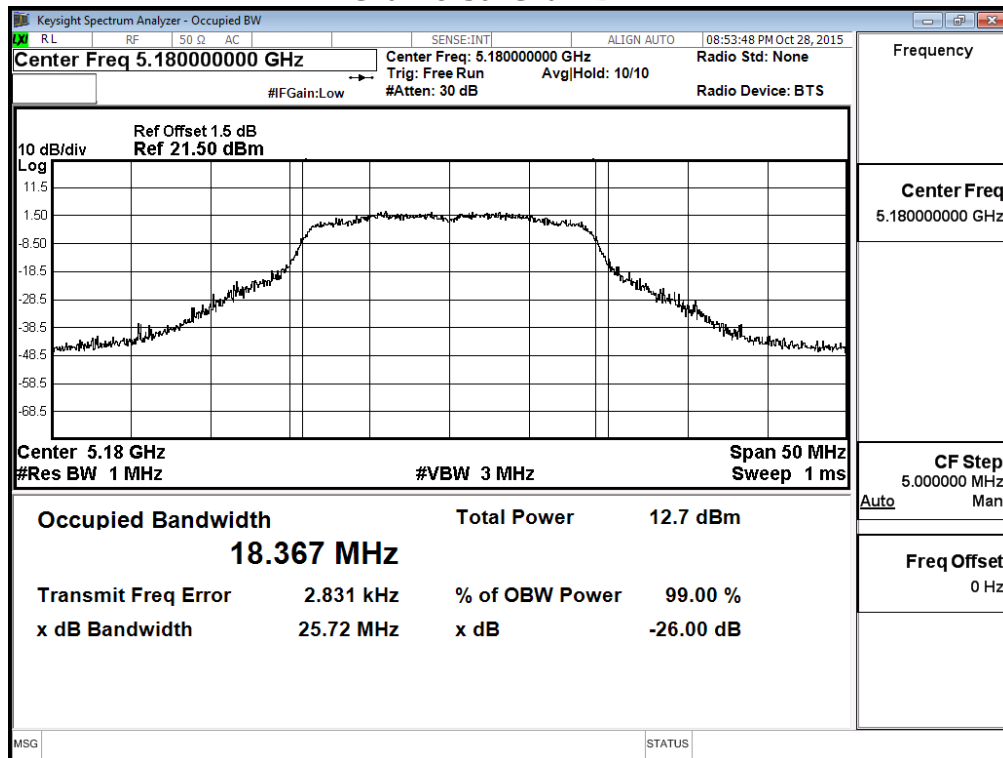
Channel 120 -Chain A



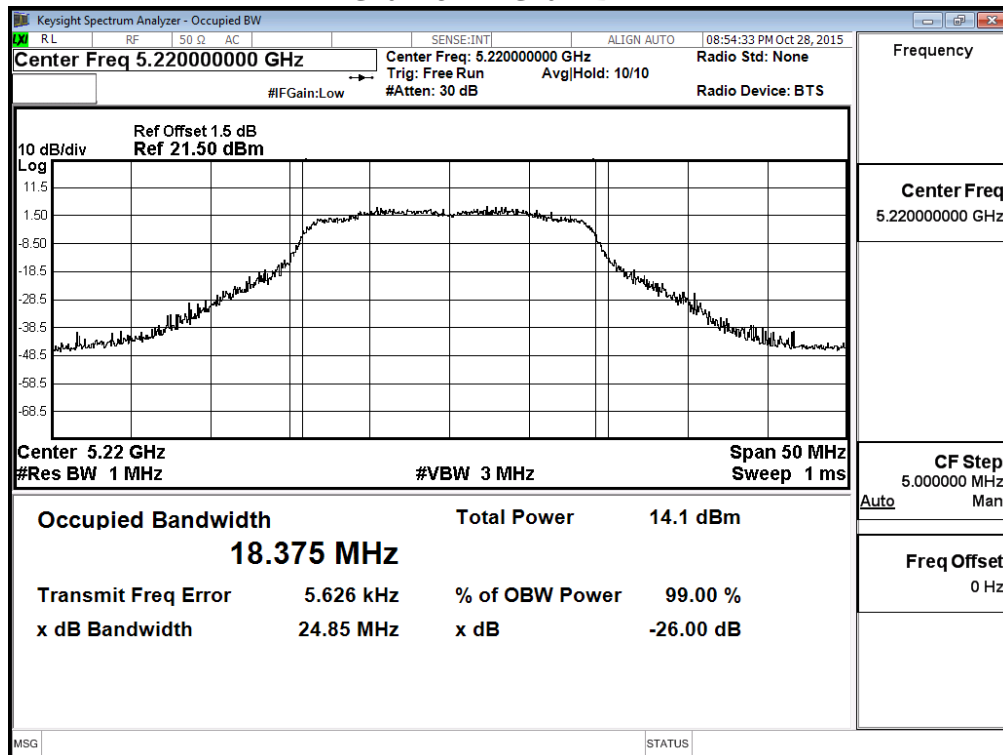
Channel 140 -Chain A



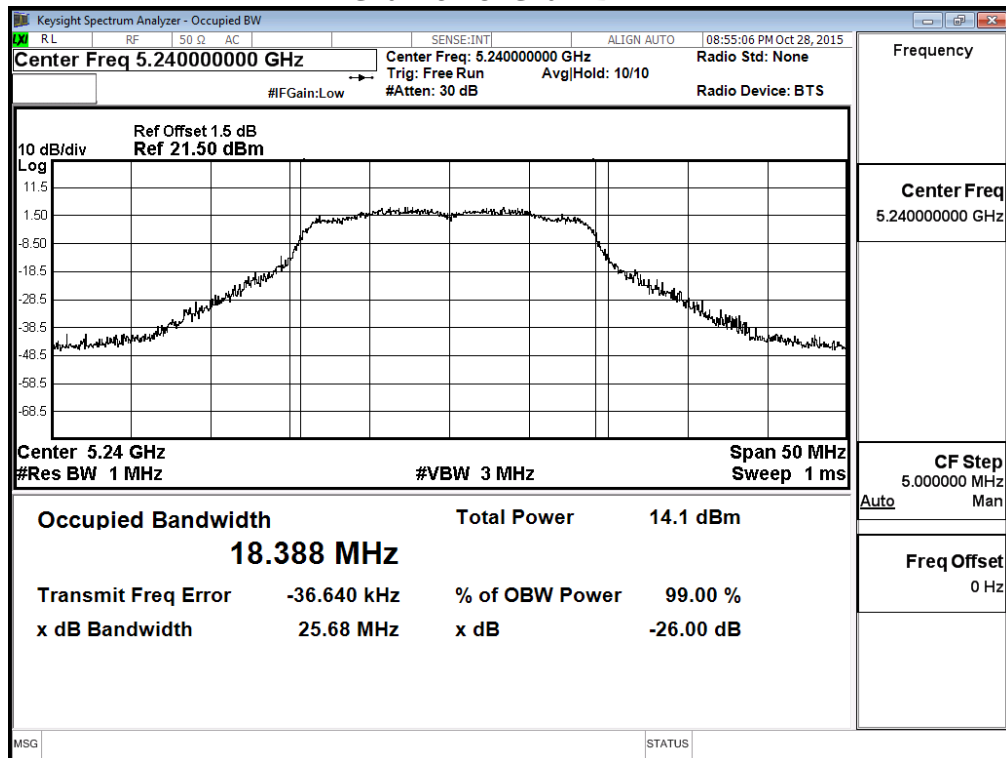
26dBc Occupied Bandwidth: Channel 36 -Chain B



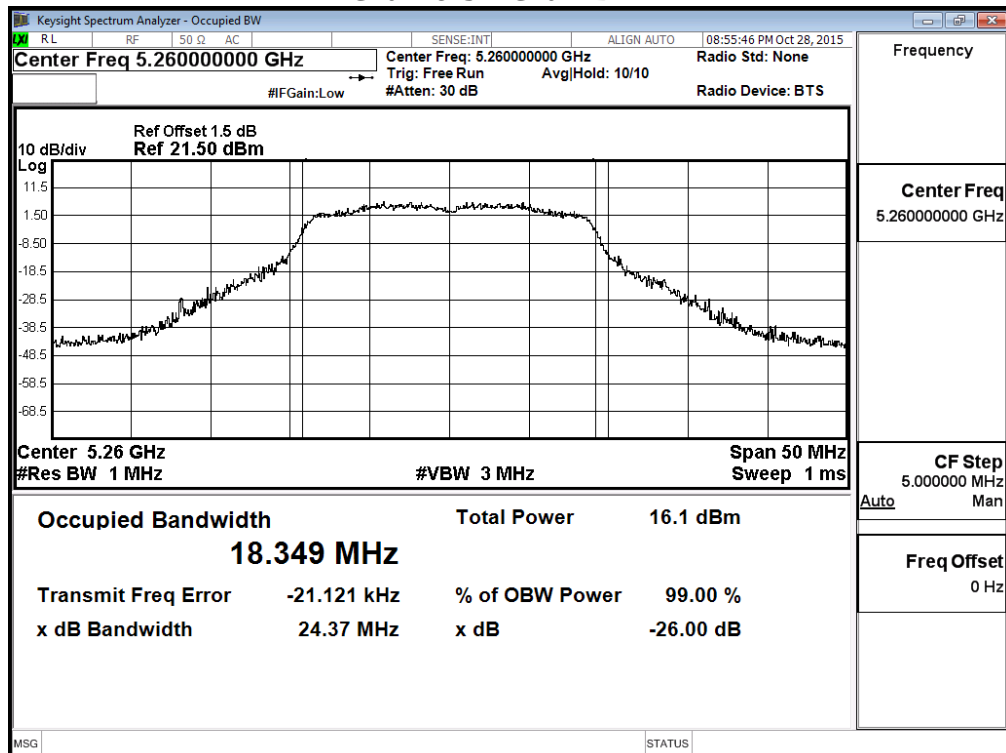
Channel 44 -Chain B



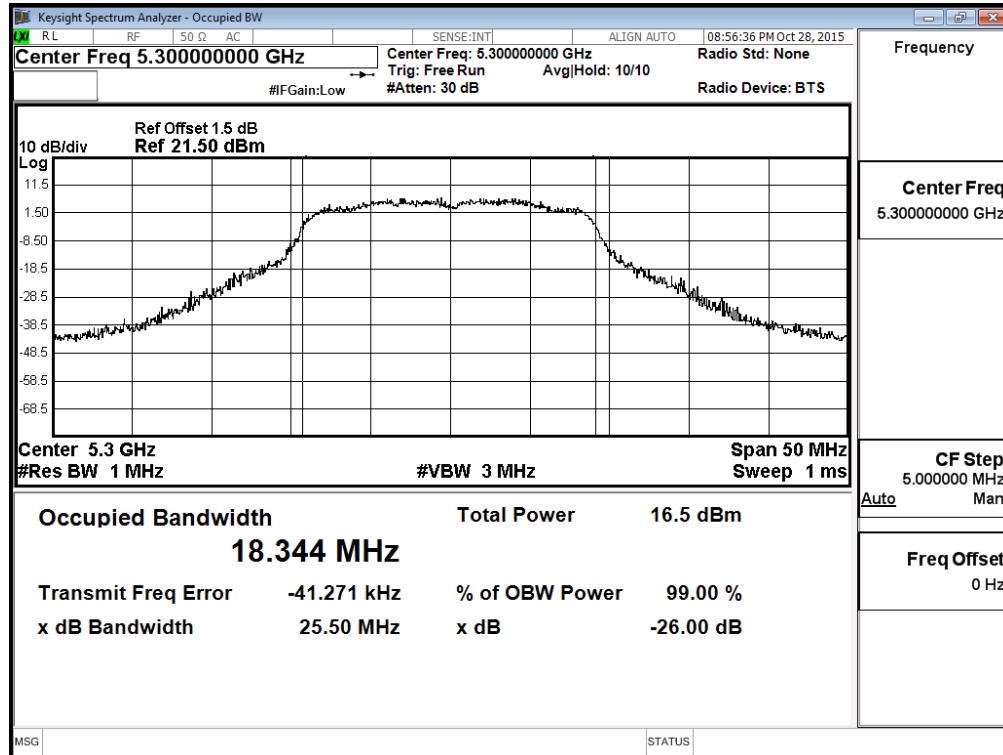
Channel 48 -Chain B



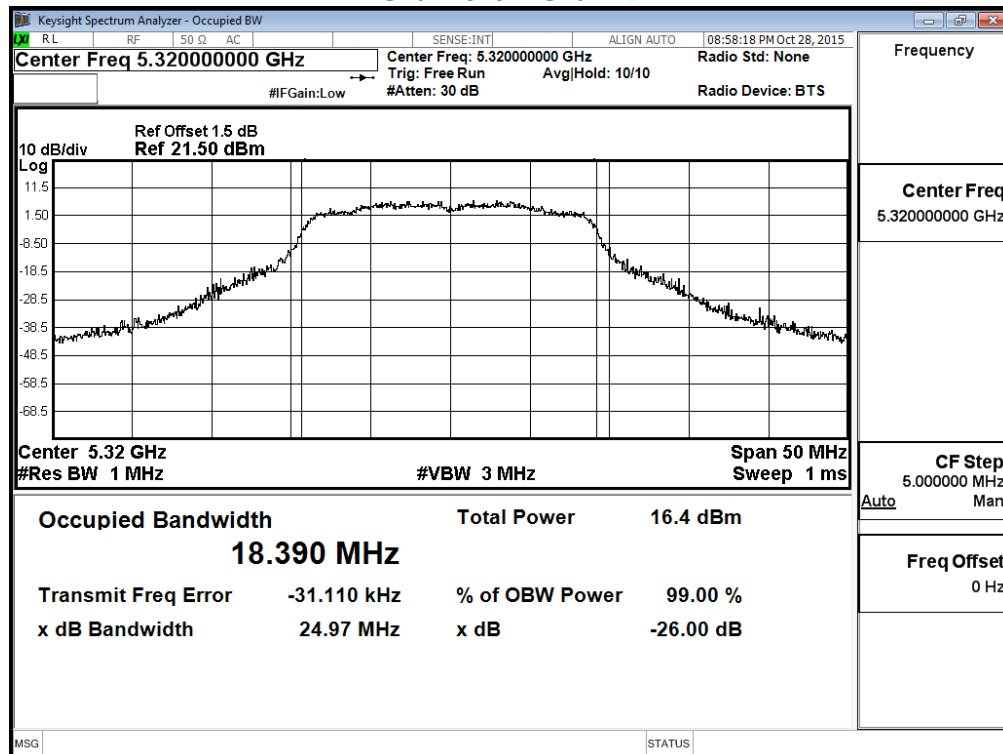
Channel 52 -Chain B



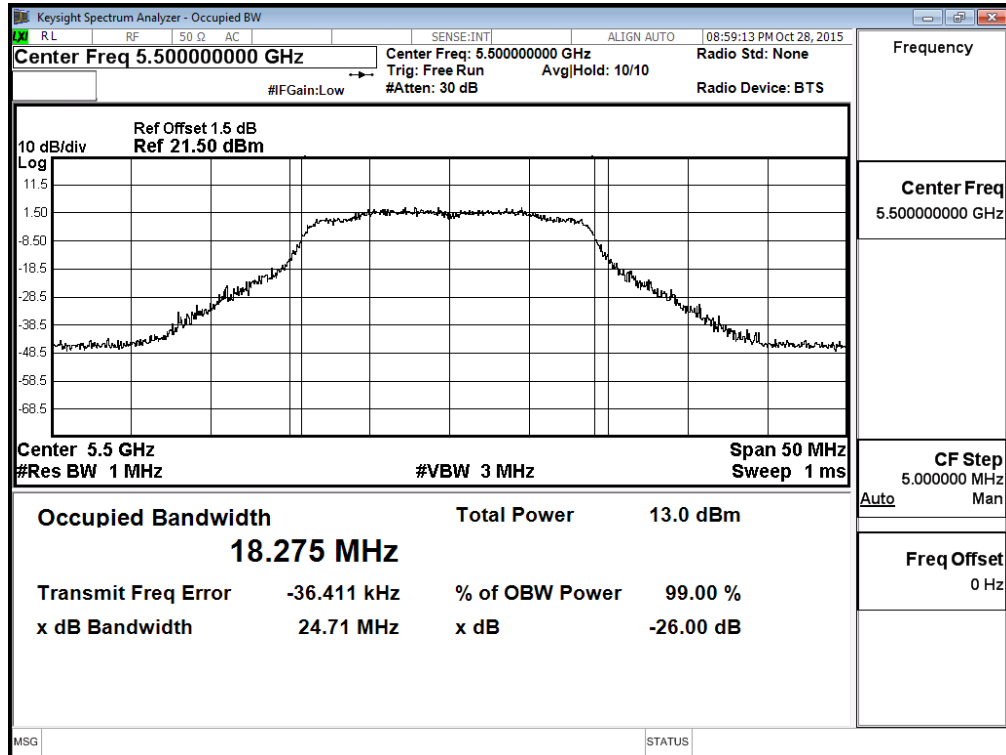
Channel 60 -Chain B



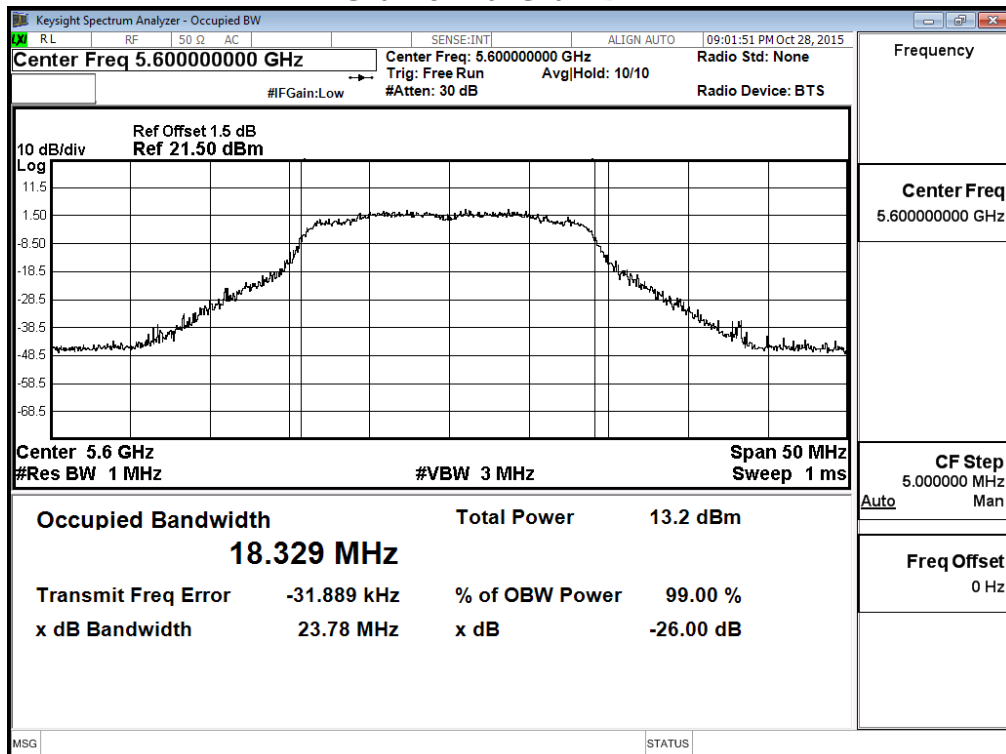
Channel 64 -Chain B



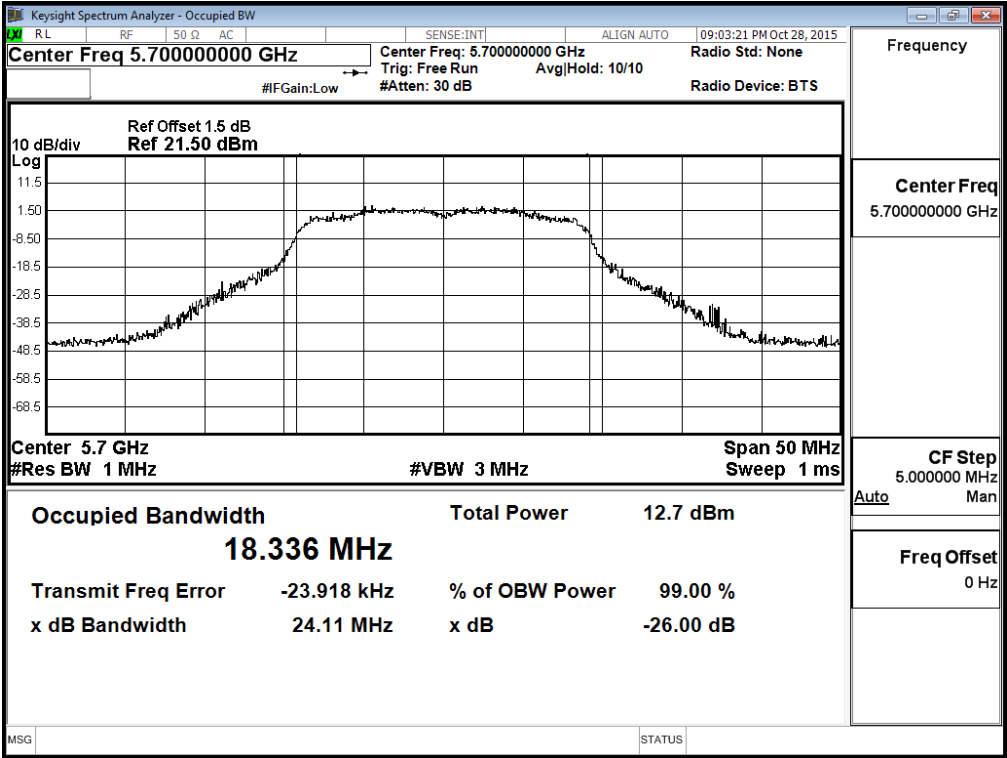
Channel 100 -Chain B



Channel 120 -Chain B



Channel 140 -Chain B



Product : INTEL DUAL BAND WIRELESS-AC 7265
Test Item : Maximum conducted output power
Test Site : No.3 OATS
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	7.96	--	--	--	--	--	--	--	<17dBm
46	5230	9.99	9.88	9.79	9.68	9.58	9.48	9.38	9.27	<17dBm
54	5270	10.36	--	--	--	--	--	--	--	<24dBm
62	5310	11.15	11.02	10.89	10.75	10.62	10.49	10.35	10.22	<24dBm
102	5510	9	--	--	--	--	--	--	--	<24dBm
118	5590	8.50	8.38	8.29	8.16	8.06	7.94	7.83	7.72	<24dBm
134	5670	8.68	--	--	--	--	--	--	--	<24dBm

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	8.5	--	--	--	--	--	--	--	<17dBm
46	5230	9.99	9.91	9.83	9.69	9.61	9.51	9.41	9.32	<17dBm
54	5270	10.59	--	--	--	--	--	--	--	<24dBm
62	5310	10.75	10.63	10.49	10.37	10.24	10.11	9.98	9.86	<24dBm
102	5510	8.46	--	--	--	--	--	--	--	<24dBm
118	5590	8.28	8.16	8.08	7.99	7.89	7.80	7.70	7.61	<24dBm
134	5670	9	--	--	--	--	--	--	--	<24dBm

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

Maximum conducted output power Measurement:

Channel No	Frequency Range (MHz)	26dB Bandwidth (MHz)	Chain A Power (dBm)	Chain B Power (dBm)	Output Power (dBm)	Output Power Limit	
						(dBm)	dBm+10log(BW)
38	5190	36.173	7.96	8.50	11.25	17	19.58
46	5230	36.273	9.99	9.99	13.00	17	19.60
54	5270	36.284	10.36	10.59	13.49	24	26.60
62	5310	36.270	11.15	10.75	13.96	24	26.60
102	5510	36.290	9.00	8.46	11.75	24	26.60
118	5590	36.280	8.50	8.28	11.40	24	26.60
134	5670	36.259	8.68	9.00	11.85	24	26.59

Note:

7. Power Output Value = Reading value on average power meter + cable loss
8. Output Power (dBm) = 10LOG (Chain A Power (mW)+ Chain B Power (mW))
9. 26 dB Bandwidth is the bandwidth of chain A or chain B whichever is less bandwidth, output power limitation is more stringent.