

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND INDUSTRY CANADA RSS 247 REQUIREMENT

OF

**Product Name:** Tablet Computer  
**Brand Name:** FUJITSU  
**Model No.:** R726  
**Model Difference:** N/A  
**FCC ID:** EJE-WB0098  
**IC:** 337J-WB0098  
**Report No.:** E2/2016/10027  
**Issue Date:** Mar. 23, 2016  
**FCC Rule Part:** §15.407  
**IC Rule Part:** RSS-247 issue 1 May 2015

**Prepared for:** FUJITSU LIMITED  
4-1-1, Kamikodanaka, Nakahara-ku,  
Kawasaki-shi, Kanagawa, 211-8588, Japan

**Prepared by:** SGS Taiwan Ltd.  
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No.2, Keji 1st Rd., Guishan District,  
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## VERIFICATION OF COMPLIANCE

**Applicant:** FUJITSU LIMITED  
4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa,  
211-8588, Japan

**Product Name:** Tablet Computer

**Brand Name:** FUJITSU

**Model No.:** R726

**Model Difference:** N/A

**FCC ID:** EJE-WB0098

**IC:** 337J-WB0098

**File Number:** E2/2016/10027

**Date of test:** Jan. 11, 2016 ~ Mar. 23, 2016

**Date of EUT Received:** Jan. 11, 2016

### We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

**Test By:**

*Jerry Lu*

**Date:**

Mar. 23, 2016

**Jerry Lu / Sr. Engineer**

**Prepared By:**

*Tiffany Kao*

**Date:**

Mar. 23, 2016

**Tiffany Kao / Clerk**

**Approved By:**

*Jim Chang*

**Date:**

Mar. 23, 2016

**Jim Chang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
E2/2016/10027	Rev.00	Initial creation of document	Mar. 23, 2016

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	Tablet Computer	
Brand Name:	FUJITSU	
Model No.:	R726	
Model Difference:	N/A	
NFC Module:	Model No.: RC-S650/IA, Supplier: Sony Corporation	
BT / WLAN Module:	Model No.: 8260D2W, Supplier: Intel Mobile Communications France S.A.S	
Product SW/HW version:	10.0.10240 Build 10240 / AX1	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: FPB0328; Supplier: Getac
	Adapter:	Model No.: ADP-65MD B, Supplier: Delta

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## WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology
11a	5150~5250	4	13.44 dBm (Avg.) / 13.32 dBm (EIRP)	OFDM
	5250~5350	4	13.44 dBm / 14.12 dBm (EIRP)	
	5470~5725	12	13.47 dBm / 14.00 dBm (EIRP)	
	5725-5850	5	13.46 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 16.49 dBm (Avg.) / 19.38 dBm (EIRP) (Worst Case)	OFDM
	HT20 / VHT20 5250~5350	4	HT: 16.48 dBm / 20.17 dBm (EIRP) (Worst Case)	
	HT20 / VHT20 5470~5725	12	HT: 16.48 dBm / 20.01 dBm (EIRP) (Worst Case)	
	VHT20 5720~5720	1	VHT:15.21 dBm / 18.75 dBm (EIRP)	
	HT20 / VHT20 5725-5850	5	HT: 16.48 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 16.48 dBm (Avg.) / 19.37 dBm (EIRP) (Worst Case)	OFDM
	HT40 / VHT40 5250~5350	2	HT: 16.49 dBm / 20.19 dBm (EIRP) (Worst Case)	
	HT40 / VHT40 5470~5725	6	HT: 16.46 dBm / 20.00 dBm (EIRP) (Worst Case)	
	VHT40 5710~5710	1	VHT: 15.80dBm / 19.34 dBm (EIRP)	
	HT40 / VHT40 5725-5850	2	HT: 16.48 dBm (Worst Case)	

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11ac_80M	VHT80 5150~5250	1	16.46 dBm (Avg.) / 19.35 dBm (EIRP)	OFDM
	VHT80 5250~5350	1	12.92 dBm / 16.61 dBm (EIRP)	
	VHT80 5470~5725	3	16.41 dBm / 19.95 dBm (EIRP)	
	VHT80 5725-5850	1	16.47 dBm	
Antenna Designation		PIFA Antenna Main: Partl No.: WA-P-LB-03-059, Supplier: INPAQ 5GHz Gain: -0.12dBi (5150MHz-5250MHz) 5GHz Gain: 0.68dBi (5250MHz-5350MHz) 5GHz Gain: 0.53dBi (5470MHz-5725MHz) 5GHz Gain: 2.02dBi (5725MHz-5850MHz) Aux: Part No.: WA-P-LB-02-301, Supplier: INPAQ 5GHz Gain: -0.97dBi (5150MHz-5250MHz) 5GHz Gain: -0.63dBi (5250MHz-5350MHz) 5GHz Gain: -0.99dBi (5470MHz-5725MHz) 5GHz Gain: -0.16dBi (5725MHz-5850MHz)		
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps		

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## 1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11abgn & ac with Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R726
Model Difference:	N/A
FCC ID:	EJE-WB0098
IC:	337J-WB0098
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.1 dual mode
NFC Specification	NFC

**Note:** The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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### 1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 1 May 2015

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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## 2.4 Measurement Results Explanation Example

### For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 2dB, and 10dB attenuator.

SISO mode offset

= RF cable loss (dB)+ attenuation factor(dB)=12(dB)

MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log( $N_{ANT}$ ) dB =15(dB)

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & AC Power Line Conducted Emission

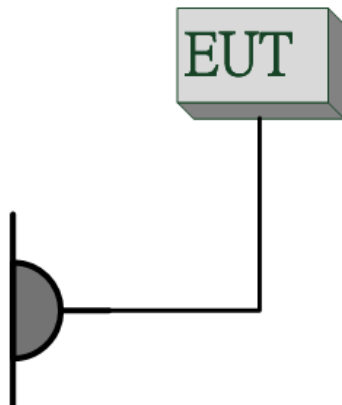


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

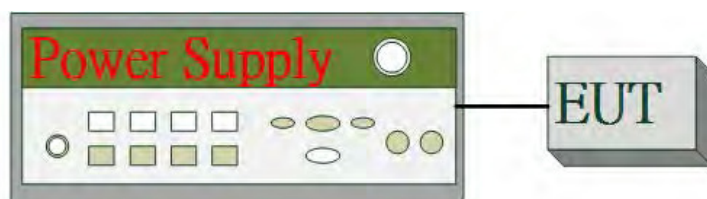


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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### 3. SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

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## 4. DESCRIPTION OF TEST MODES

### 4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

12 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	138	5690 MHz
122	5610 MHz		

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission. Therefore, 802.11n as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

### RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11ac_VHT20	5720	144	144	OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT40	5710	142	142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

#### Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/n/ac WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

Remark: The device will not operate in 5600~5650MHz band for IC.

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# ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11ac_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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## 5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
26dB & 6dB Emission Bandwidth	+/- 123.36 Hz
The Maximum Output Power Measurement	+/- 0.96 dB
Peak Power Spectral Density Measurement	+/- 1.67 dB
Frequency Stability	+/- 123.36 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC=+/- 0.2%

### Radiated Spurious Emission:

Measurement uncertainty (Polarization : <b>Vertical</b> )	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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## 6. CONDUCTED EMISSION TEST

### 6.1. Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

### 6.2. Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2015	02/06/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

### 6.3. EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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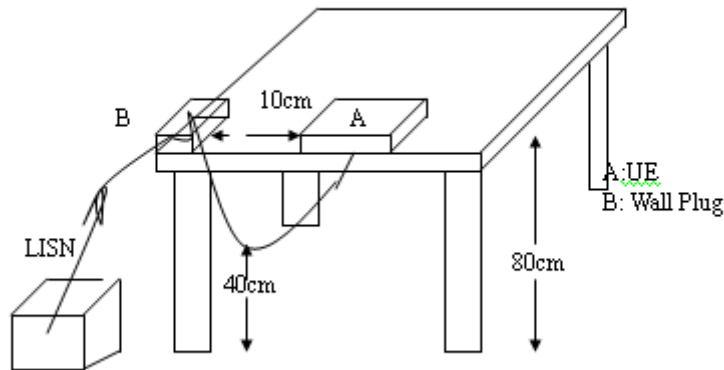
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## 6.4. Test SET-UP



## 6.5. Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

## 6.6. Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closet to the limit

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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Jan. 20, 2016
Temperature:	21		

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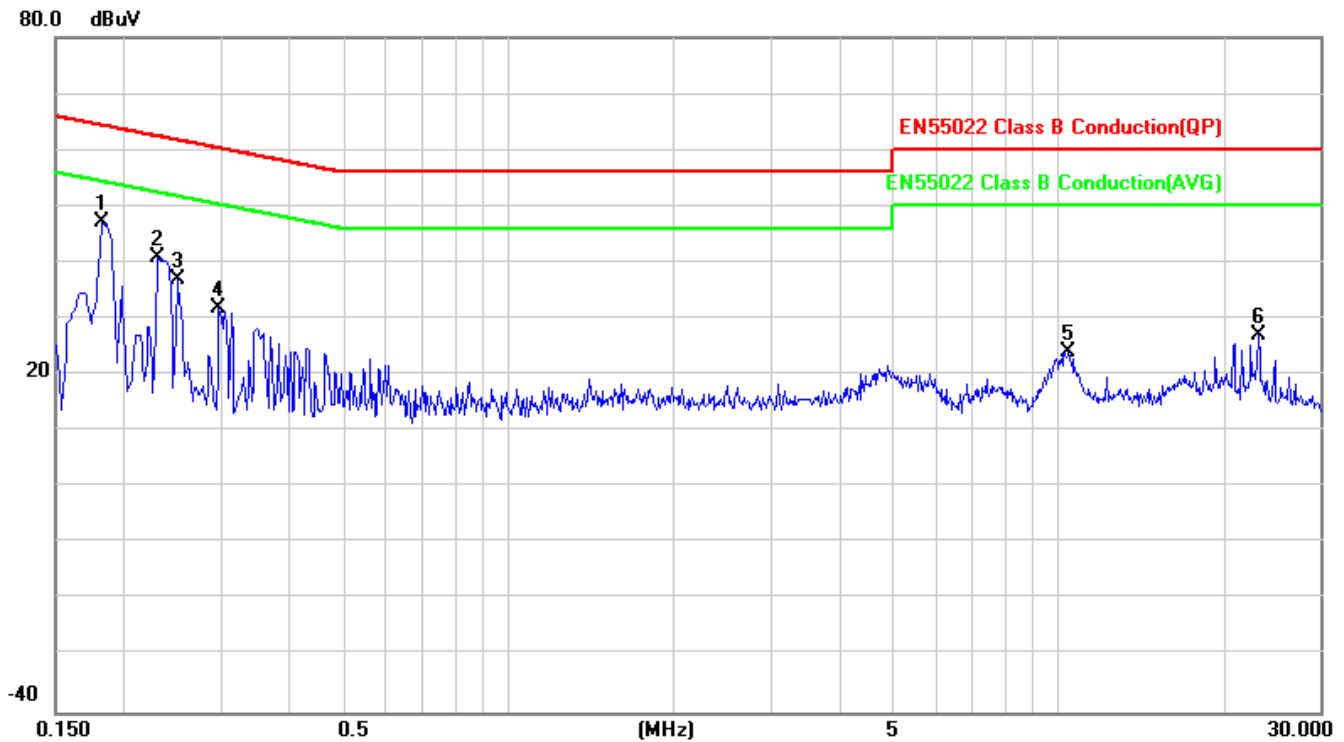
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No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1820	37.38	9.65	47.03	64.39	-17.36	peak	
2		0.2300	31.06	9.66	40.72	62.45	-21.73	peak	
3		0.2500	27.33	9.68	37.01	61.76	-24.75	peak	
4		0.2980	22.24	9.72	31.96	60.30	-28.34	peak	
5		10.4980	14.38	9.73	24.11	60.00	-35.89	peak	
6		23.2500	17.55	9.46	27.01	60.00	-32.99	peak	

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## 7. DUTY CYCLE TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

### Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

### Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log ( 1/Duty Cycle
802.11a	98.49	0.07
802.11n_20/ ac_20	96.69	0.15
802.11n_40 / ac_40	93.37	0.30
802.11ac_80	87.86	0.56

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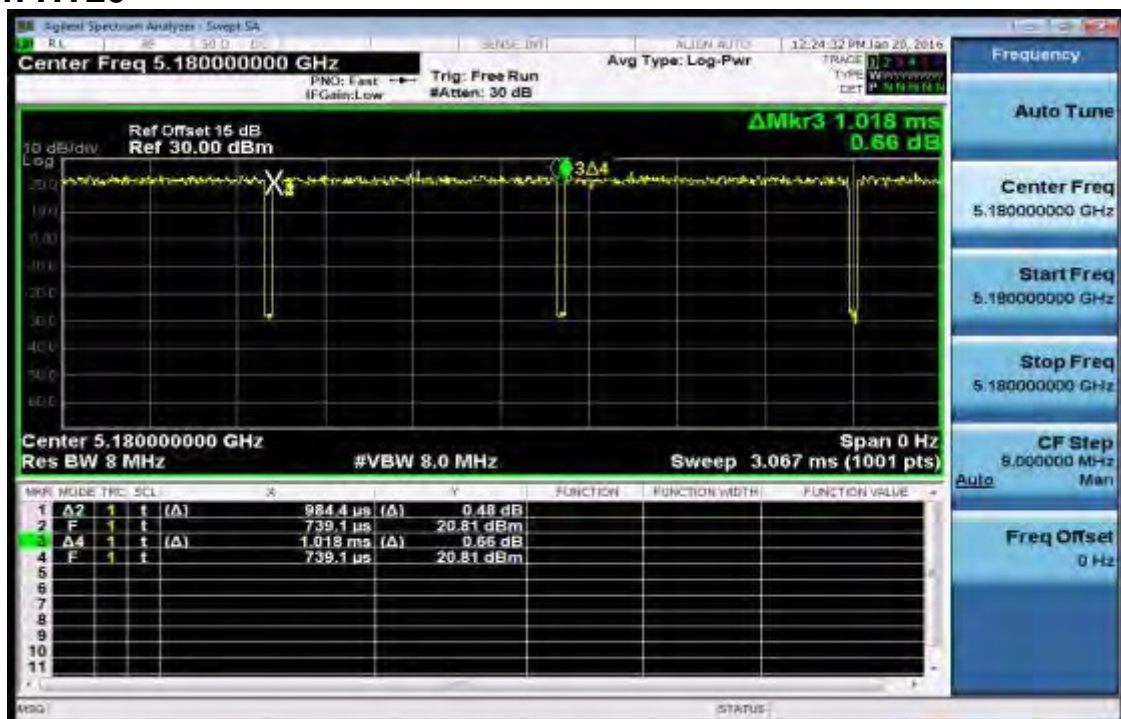
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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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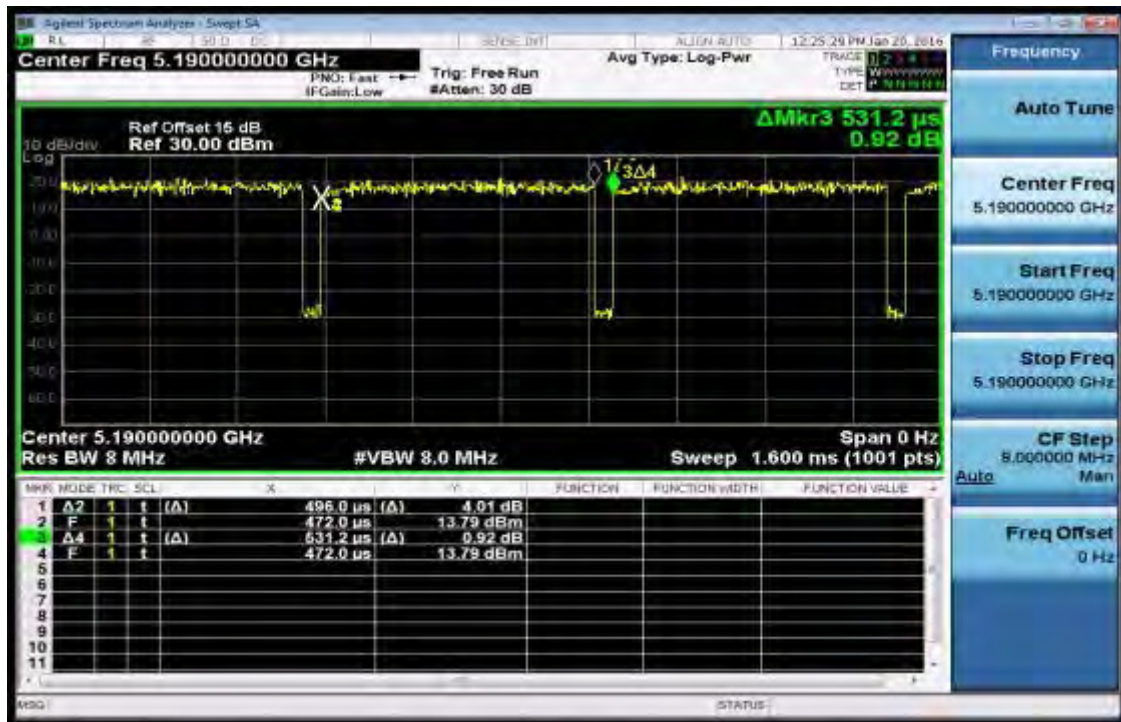
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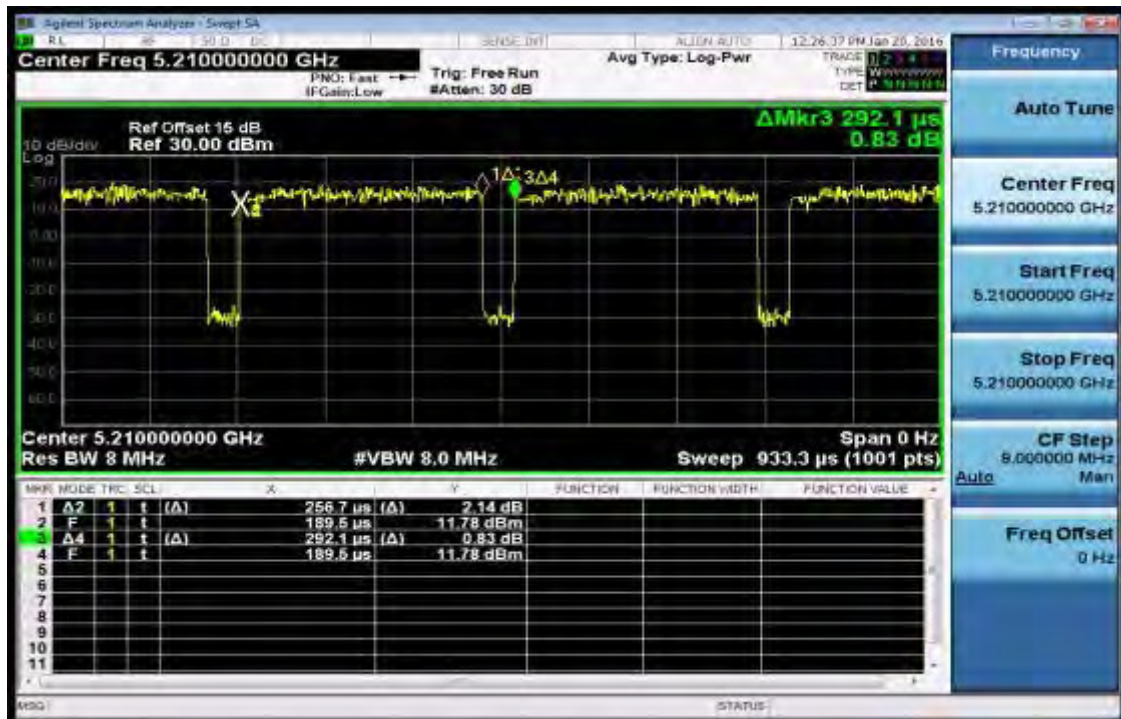
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## 802.11n HT 40



## 802.11 ac VHT 80



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## 8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

### 8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
  - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
  - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
  - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3\*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
  - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

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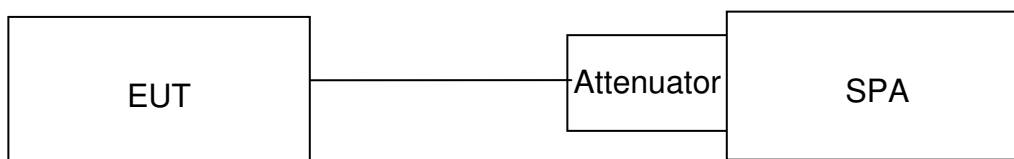
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### 8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

### 8.4 Test Set-up



### 8.5 Measurement Result

#### 26dB Bandwidth

##### 802.11a\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	23.59	13.728
5220	22.47	13.515
5240	22.60	13.541
5260	22.95	13.607
5300	22.96	13.610
5320	22.22	13.466
5500	23.26	13.665
5580	22.52	13.525
5700	24.13	13.826

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## 802.11n\_HT20\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	23.70	13.747
5220	23.38	13.689
5240	23.31	13.674
5260	22.30	13.482
5300	22.98	13.614
5320	23.27	13.668
5500	23.64	13.736
5580	22.94	13.607
5700	23.28	13.670

## 802.11n\_HT20\_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	23.19	13.653
5220	23.24	13.662
5240	23.86	13.777
5260	23.36	13.685
5300	26.24	14.189
5320	23.64	13.736
5500	22.25	13.474
5580	22.53	13.528
5700	23.30	13.673

## 802.11ac\_VHT20\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	17.700	12.48
5720 (UNII-3)	5.530	7.43

## 802.11ac\_VHT20\_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	17.020	12.31
5720 (UNII-3)	5.310	7.25

## 802.11n\_HT40\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	44.27	16.461
5230	46.03	16.630
5270	45.94	16.622
5310	45.86	16.615
5510	44.99	16.531
5550	46.44	16.669
5670	45.94	16.622

## 802.11n\_HT40\_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	44.96	16.528
5230	46.15	16.642
5270	45.44	16.575
5310	44.93	16.525
5510	45.77	16.606
5550	45.71	16.600
5670	45.93	16.621

## 802.11ac\_VHT40\_Main

Frequency (MHz)	26dB Bandwidth	10 Log (B) (dB)
5710 (UNII-2C)	39.740	15.99
5710 (UNII-3)	5.770	7.61

## 802.11ac\_VHT40\_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	38.909	15.90
5710 (UNII-3)	5.641	7.51

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802.11ac\_VHT80\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	87.42	19.416
5290	84.57	19.272
5530	86.72	19.381
5610	84.19	19.25
5690(UNII-	77.63	18.90
5690(UNII-3)	4.79	6.80

802.11ac\_VHT80\_Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	88.08	19.449
5290	85.28	19.308
5530	86.26	19.358
5610	87.28	19.409
5690(UNII-	81.57	19.115
5690(UNII-3)	5.04	7.02

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## 99% Bandwidth

### 802.11a\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	16.358	12.137
5220	16.397	12.148
5240	16.403	12.149
5260	16.527	12.182
5300	16.398	12.148
5320	16.434	12.157
5500	16.361	12.138
5580	16.485	12.171
5700	16.489	12.172

### 802.11n\_HT20\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.671	12.473
5220	17.683	12.476
5240	17.705	12.481
5260	17.669	12.472
5300	17.182	12.351
5320	17.680	12.475
5500	17.618	12.460
5580	17.594	12.454
5700	17.663	12.471

### 802.11n\_HT20\_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5180	17.617	12.459
5220	17.639	12.465
5240	17.585	12.451
5260	17.636	12.464
5300	17.602	12.456
5320	17.707	12.481
5500	17.495	12.429
5580	17.682	12.475
5700	17.661	12.470

### 802.11ac\_VHT20\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	13.270	11.23
5720 (UNII-3)	7.380	8.68

### 802.11ac\_VHT20\_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	13.370	11.26
5720 (UNII-3)	4.170	6.20

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## 802.11n\_HT40\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	36.109	15.576
5230	36.245	15.592
5270	36.051	15.569
5310	35.382	15.488
5510	35.991	15.562
5550	35.664	15.522
5670	36.035	15.567

## 802.11n\_HT40\_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5190	36.043	15.568
5230	36.004	15.564
5270	36.099	15.575
5310	35.273	15.474
5510	35.977	15.560
5550	35.976	15.560
5670	36.204	15.588

## 802.11ac\_VHT40\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	31.510	14.98
5710 (UNII-3)	4.572	6.60

## 802.11ac\_VHT40\_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	31.511	14.98
5710 (UNII-3)	4.568	6.60

## 802.11ac\_VHT80\_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5210	75.339	18.770
5290	75.075	18.755
5530	75.536	18.782
5610	74.001	18.692
5690(UNII-2C)	70.780	18.499
5690(UNII-3)	4.366	6.401

## 802.11ac\_VHT80\_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5210	74.865	18.743
5290	75.091	18.756
5530	75.064	18.754
5610	75.013	18.751
5690(UNII-2C)	70.700	18.494
5690(UNII-3)	4.365	6.400

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## 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

### 802.11a\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.15	11.804
5785	14.96	11.749
5825	14.46	11.601

### 802.11n\_HT20\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.39	11.873
5785	15.47	11.895
5825	15.11	11.792

### 802.11n\_HT20\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.05	11.777
5785	13.89	11.427
5825	15.15	11.805

### 802.11n\_HT40\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.09	15.452
5795	35.08	15.451

### 802.11n\_HT40\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.08	15.451
5795	33.78	15.287

### 802.11ac\_VHT80\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.03	18.752

### 802.11ac\_VHT80\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	72.58	18.608

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## 6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Average detector for IC

### 802.11a\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.01	12.044
5785	16.03	12.049
5825	16.11	12.071

### 802.11n\_HT20\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.80	12.253
5785	17.33	12.388
5825	16.93	12.287

### 802.11n\_HT20\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.50	12.175
5785	16.26	12.111
5825	17.12	12.335

### 802.11n\_HT40\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.37	15.486
5795	35.43	15.494

### 802.11n\_HT40\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.81	15.540
5795	35.63	15.518

### 802.11ac\_VHT80\_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	74.32	18.711

### 802.11ac\_VHT80\_Aux

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	74.83	18.741

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## 802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



## 26dB Band Width Test Data CH-Mid (5220MHz)



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## 26dB Band Width Test Data CH-High (5240MHz)



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## 802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



## 26dB Band Width Test Data CH-Mid (5300MHz)



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## 26dB Band Width Test Data CH-High (5320MHz)



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## 802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)



## 26dB Band Width Test Data CH-Mid (5580MHz)



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## 26dB Band Width Test Data CH-High (5700MHz)



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## 802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



## 26dB Band Width Test Data CH-Mid (5220 MHz)



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## 26dB Band Width Test Data CH-High (5240 MHz)



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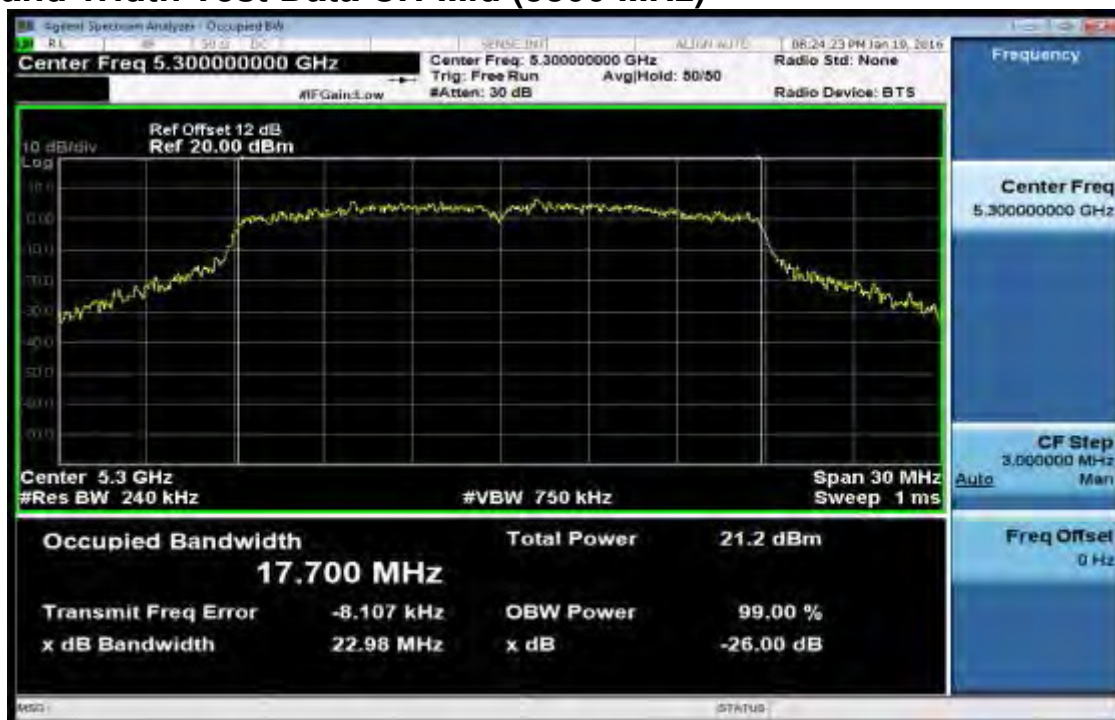
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## 802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



## 26dB Band Width Test Data CH-Mid (5300 MHz)



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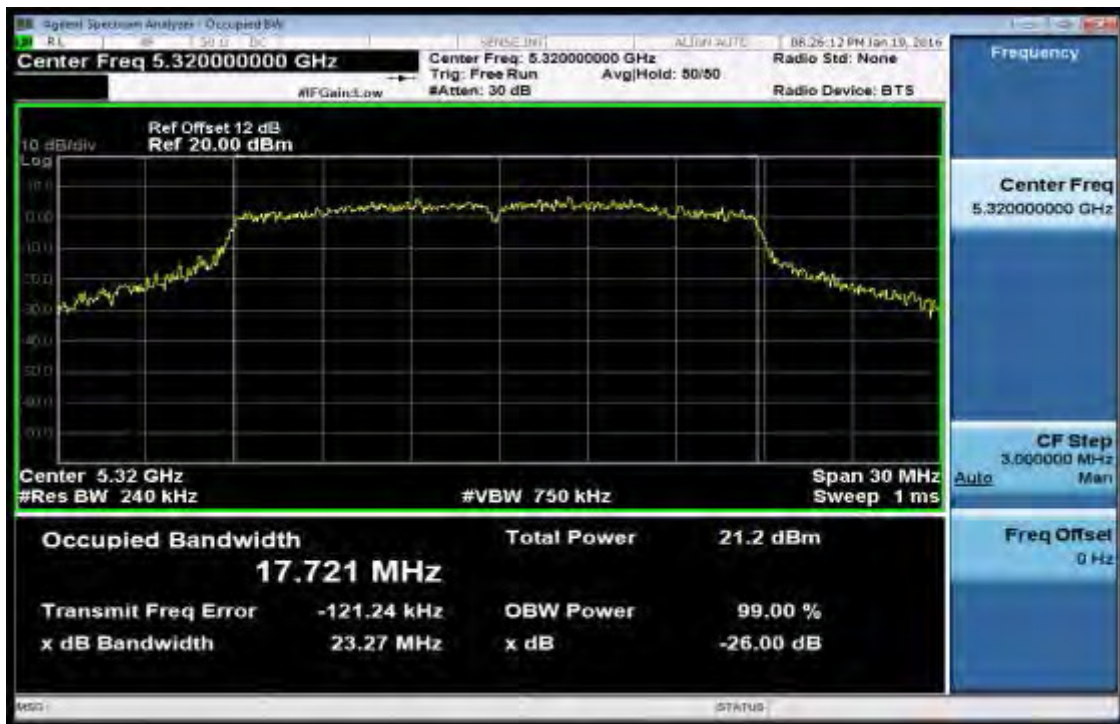
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## 26dB Band Width Test Data CH-High (5320 MHz)



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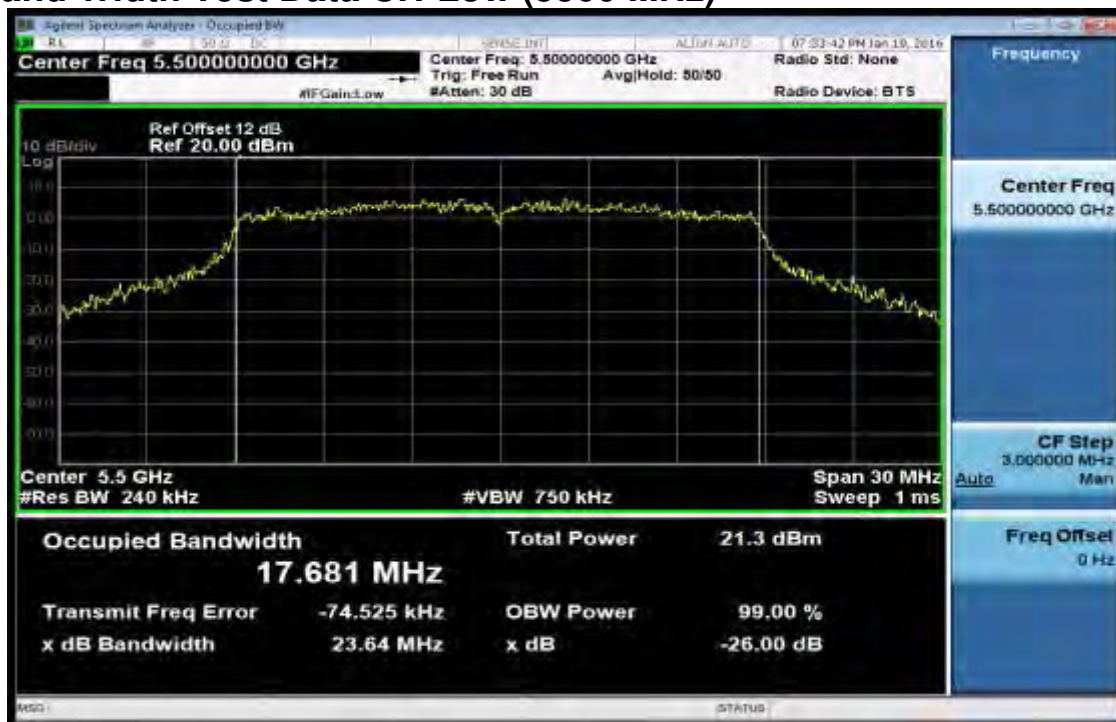
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## 802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



## 26dB Band Width Test Data CH-Mid (5580 MHz)



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## 26dB Band Width Test Data CH-High (5700 MHz)



## 802.11ac VHT20, 5470~5725 MHz (Main)

## 26dB Band Width Test Data CH-High (5720 MHz)



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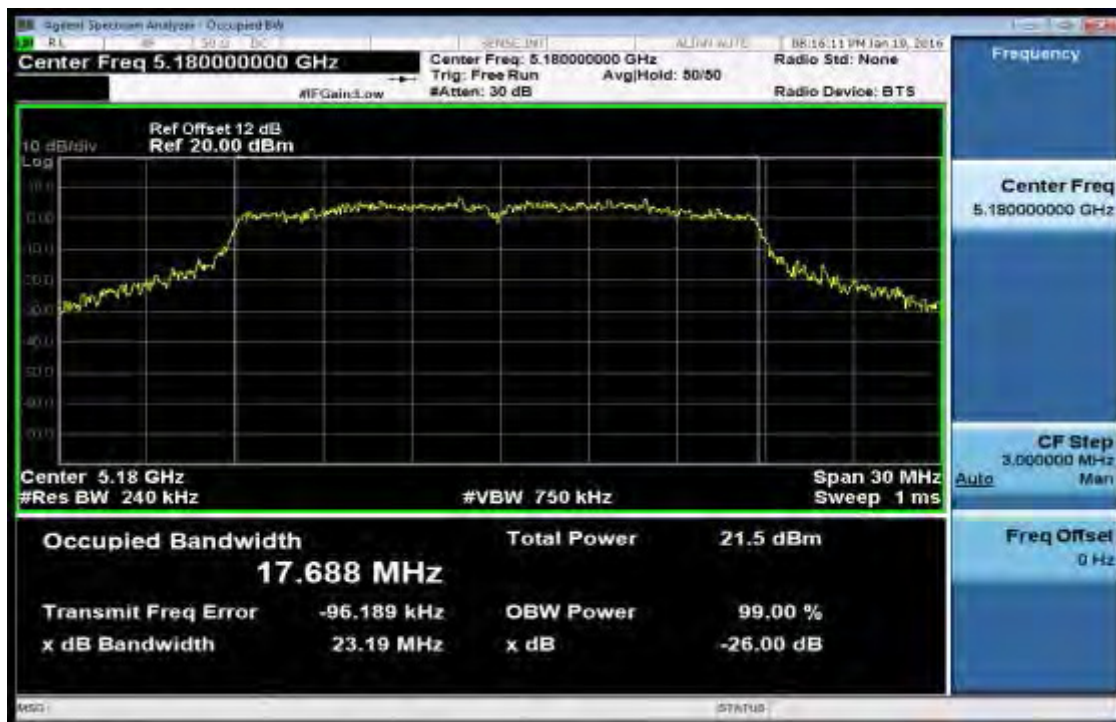
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## 802.11n HT20, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Low (5180 MHz)



## 26dB Band Width Test Data CH-Mid (5220 MHz)



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## 26dB Band Width Test Data CH-High (5240 MHz)



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## 802.11n HT20, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5260 MHz)



## 26dB Band Width Test Data CH-Mid (5300 MHz)



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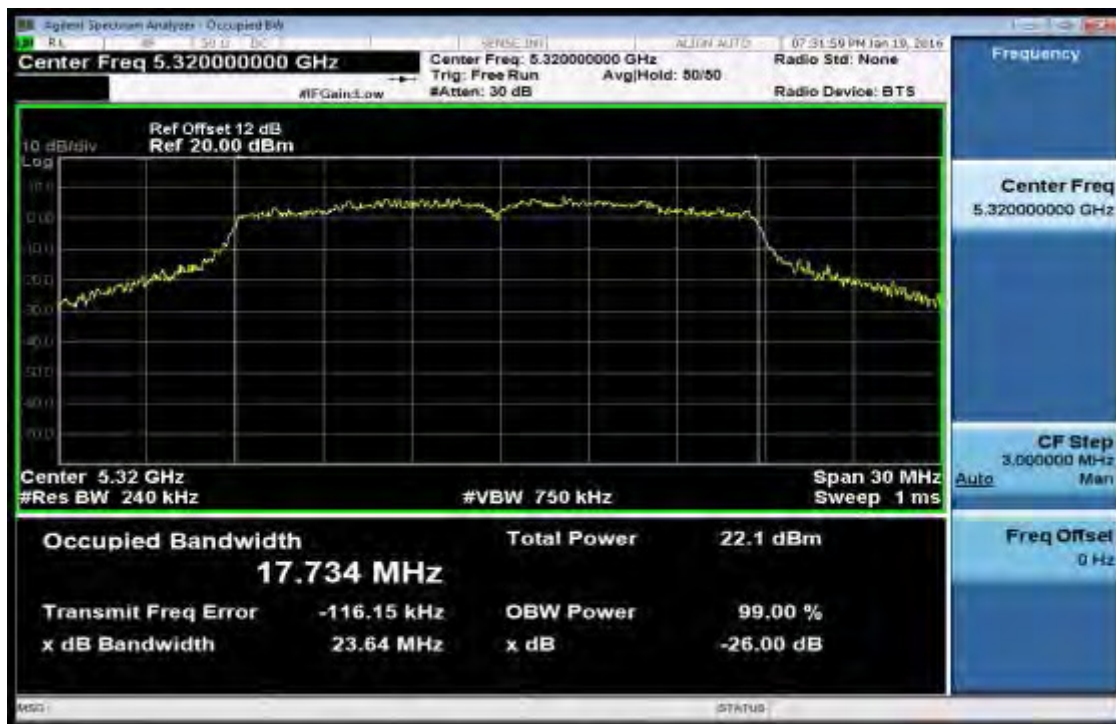
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## 26dB Band Width Test Data CH-High (5320 MHz)



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## 802.11n HT20, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5500 MHz)



## 26dB Band Width Test Data CH-Mid (5580 MHz)



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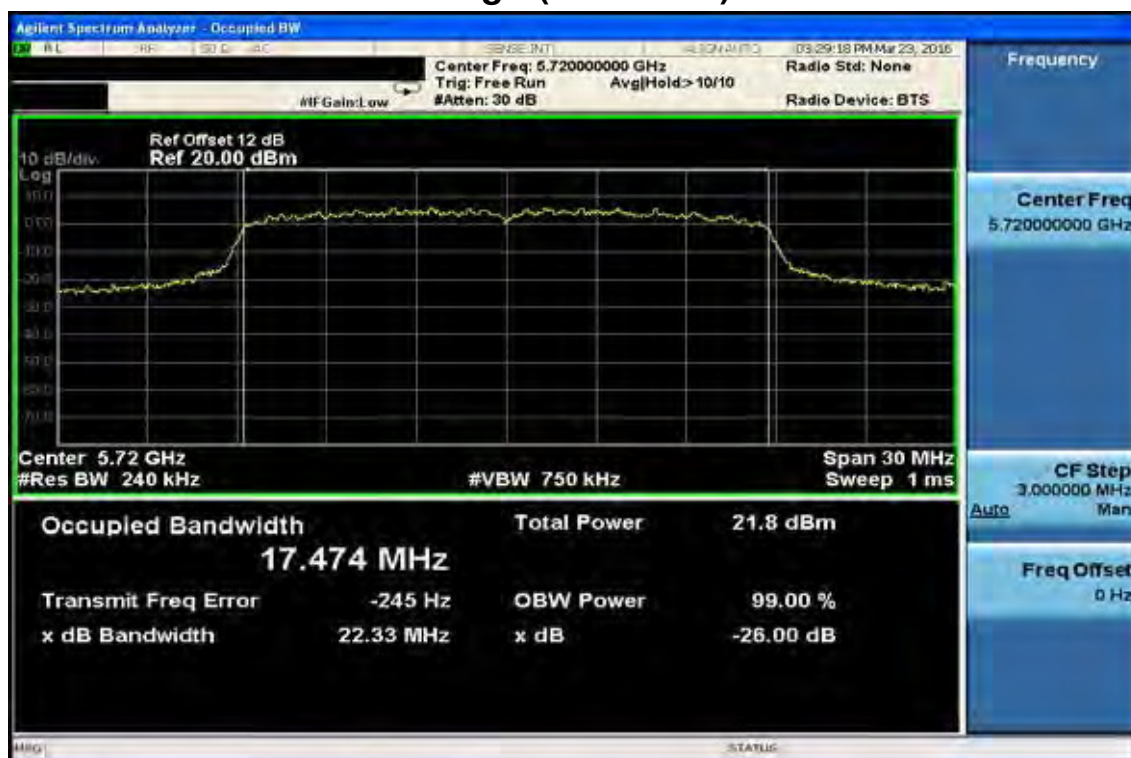
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## 26dB Band Width Test Data CH-High (5700 MHz)



## 802.11ac VHT20, 5470~5725 MHz (Aux)

## 26dB Band Width Test Data CH-High (5720 MHz)



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## 802.11n HT40, 5150~5250 MHz (Main)

### 26dB Band Width Test Data CH-Low (5190 MHz)



### 26dB Band Width Test Data CH-High (5230 MHz)



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## 802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



## 26dB Band Width Test Data CH-High (5310MHz)



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## 802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



## 26dB Band Width Test Data CH-Mid (5550 MHz)



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## 26dB Band Width Test Data CH-High (5670 MHz)



## 802.11ac VHT40, 5470~5725 MHz (Main)

## 26dB Band Width Test Data CH-Low (5710 MHz)



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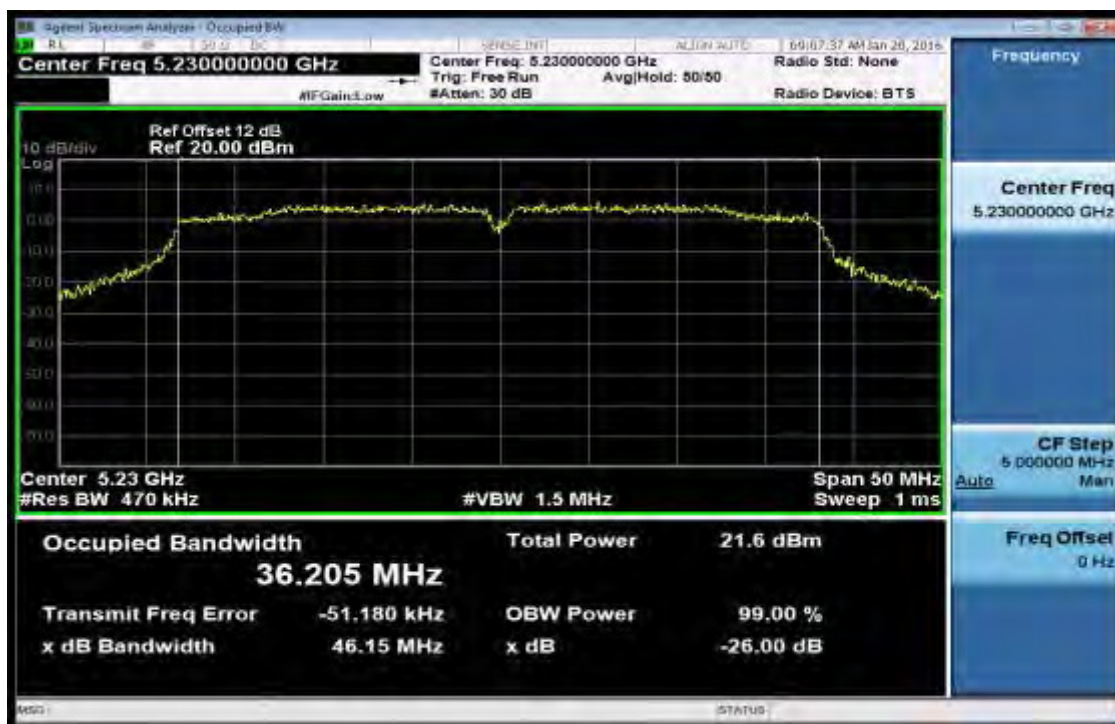


## 802.11n HT40, 5150~5250 MHz (Aux)

### 26dB Band Width Test Data CH-Low (5190 MHz)



### 26dB Band Width Test Data CH-High (5230 MHz)



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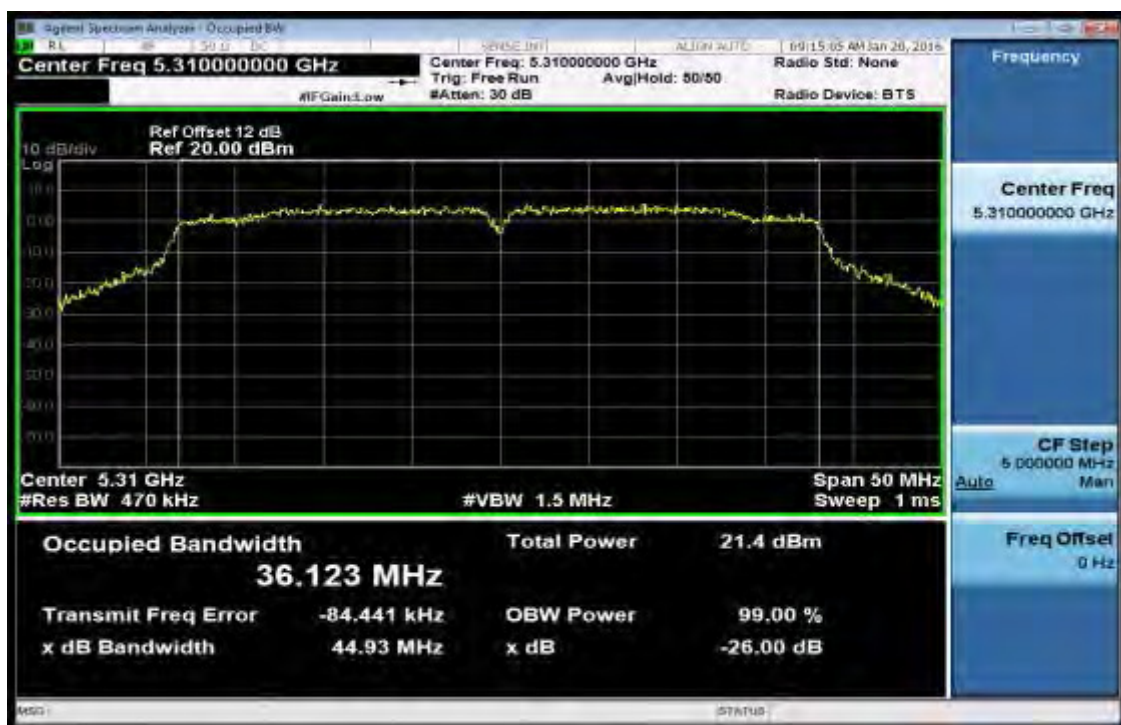
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## 802.11n HT40, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5270 MHz)



## 26dB Band Width Test Data CH-High (5310MHz)



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## 802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5510 MHz)



## 26dB Band Width Test Data CH-Mid (5550 MHz)



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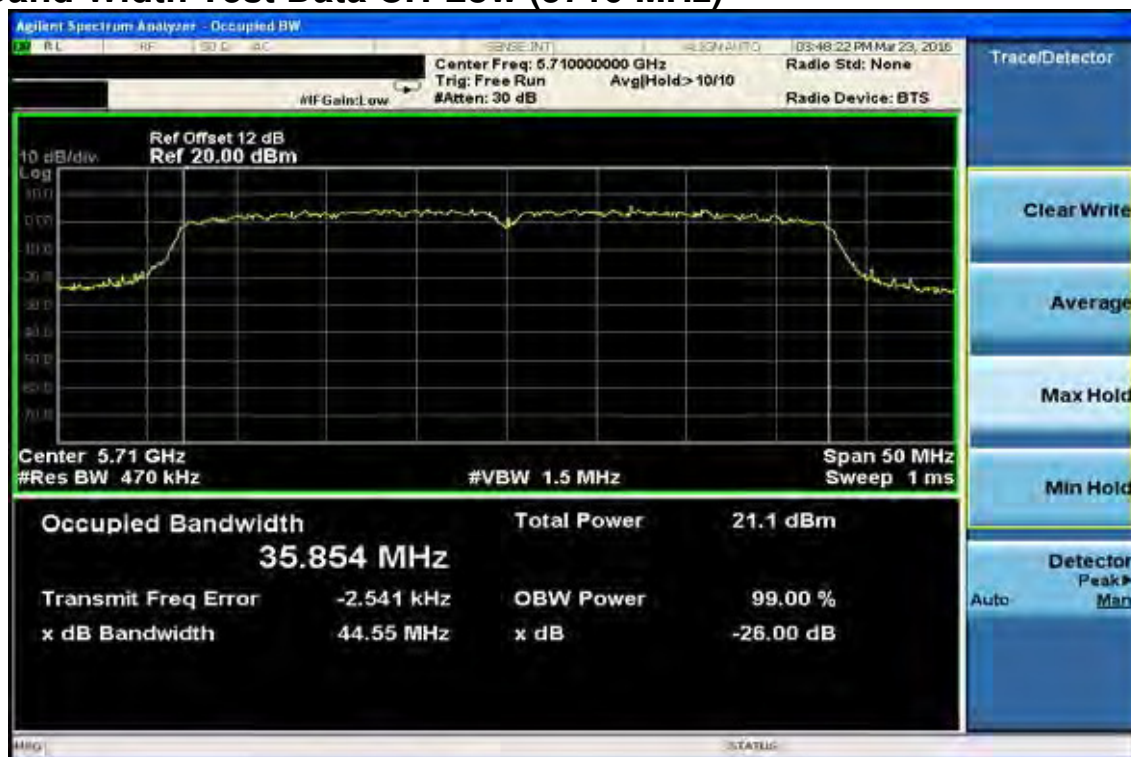
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## 26dB Band Width Test Data CH-High (5670 MHz)



## 802.11ac VHT40, 5470~5725 MHz (Aux)

## 26dB Band Width Test Data CH-Low (5710 MHz)



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## 802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



## 802.11ac VHT80, 5250~5350 MHz 26dB Band Width Test Data CH-Mid (5290 MHz)



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## 802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



## 26dB Band Width Test Data CH-Low (5610 MHz)



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## 26dB Band Width Test Data CH-Low (5690 MHz)



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## 802.11ac VHT80, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Mid (5210 MHz)



## 802.11ac VHT80, 5250~5350 MHz 26dB Band Width Test Data CH-Mid (5290 MHz)



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## 802.11ac VHT80, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5530 MHz)



## 26dB Band Width Test Data CH-Low (5610 MHz)



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## 26dB Band Width Test Data CH-Low (5690 MHz)



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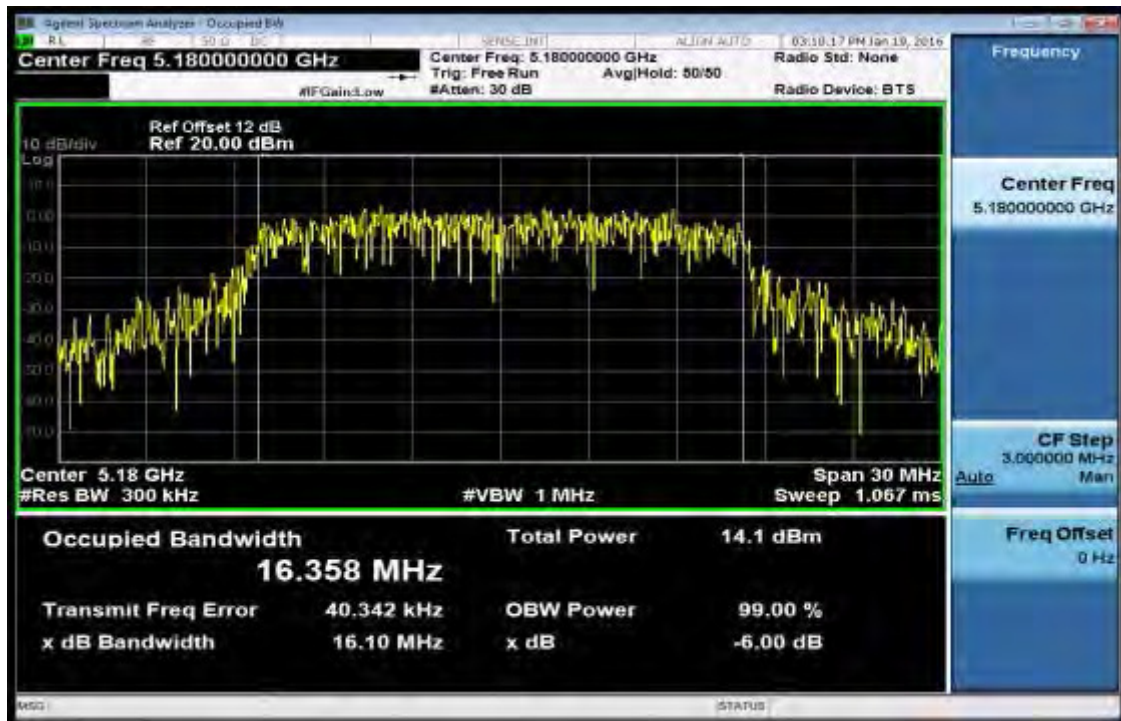
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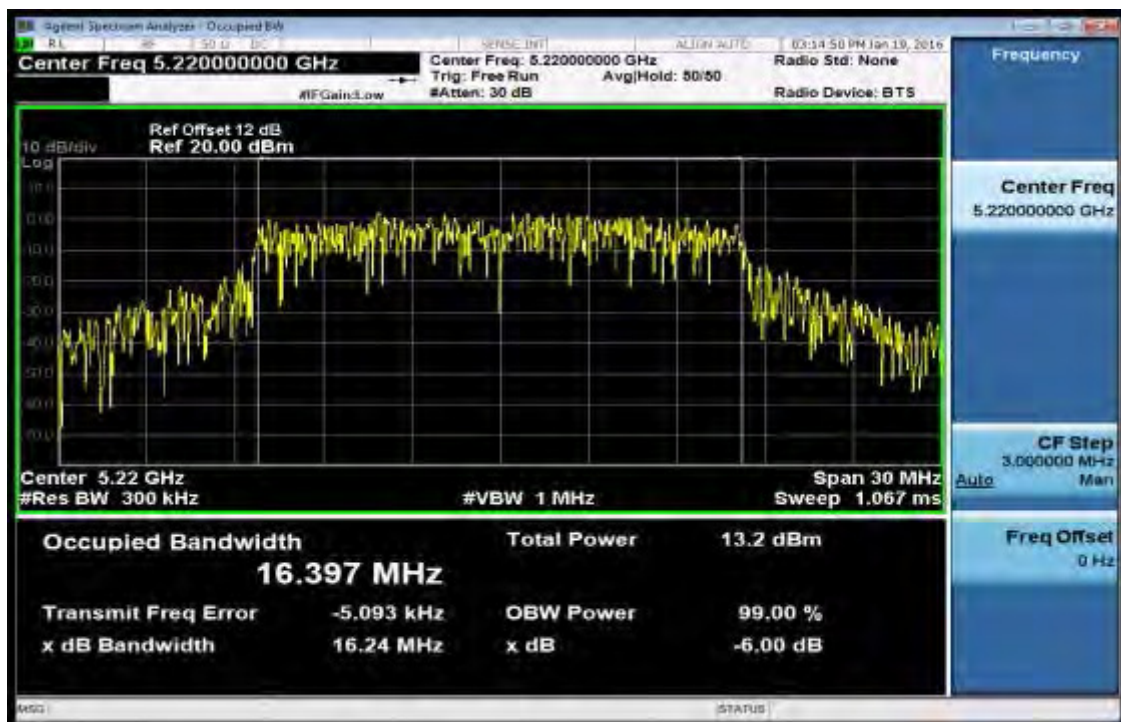


## 802.11a, 5150~5250 MHz (Main)

### 99% Band Width Test Data CH-Low (5180MHz)



### 99% Band Width Test Data CH-Mid (5220MHz)



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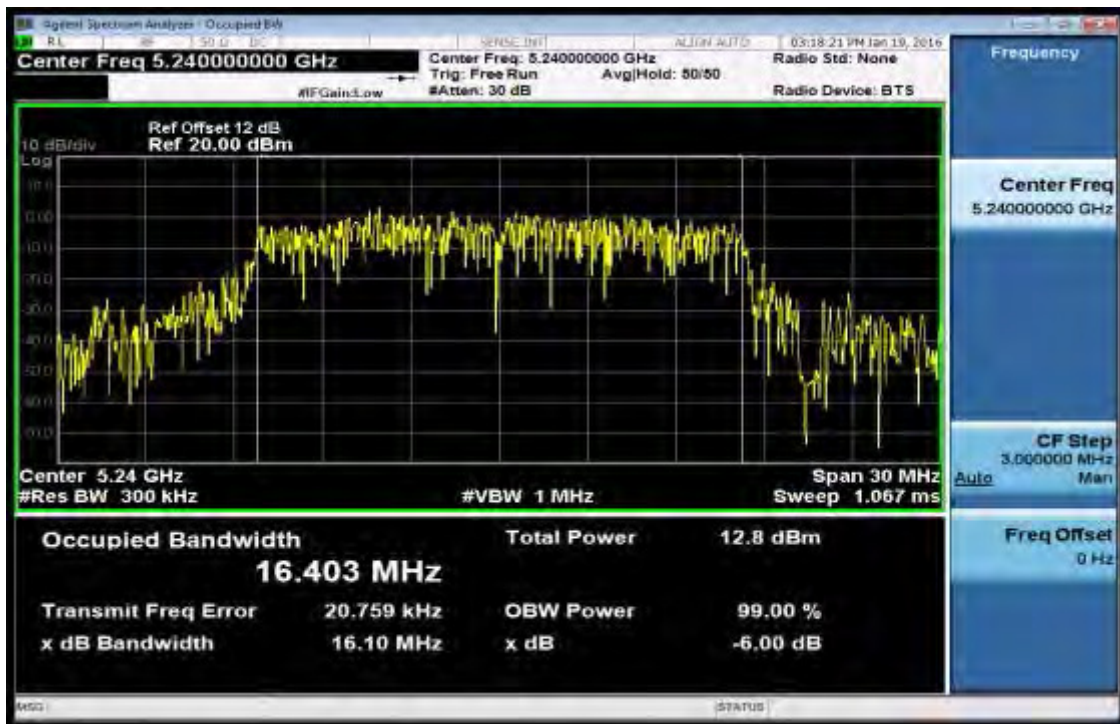
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## 99% Band Width Test Data CH-High (5240MHz)



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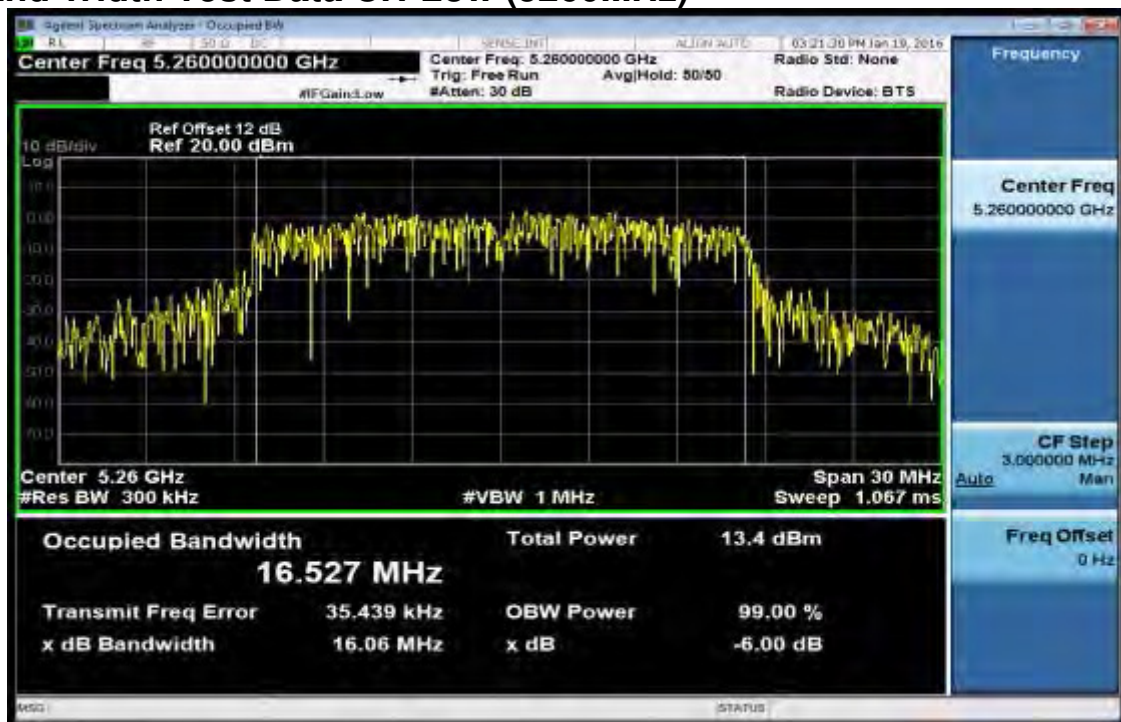
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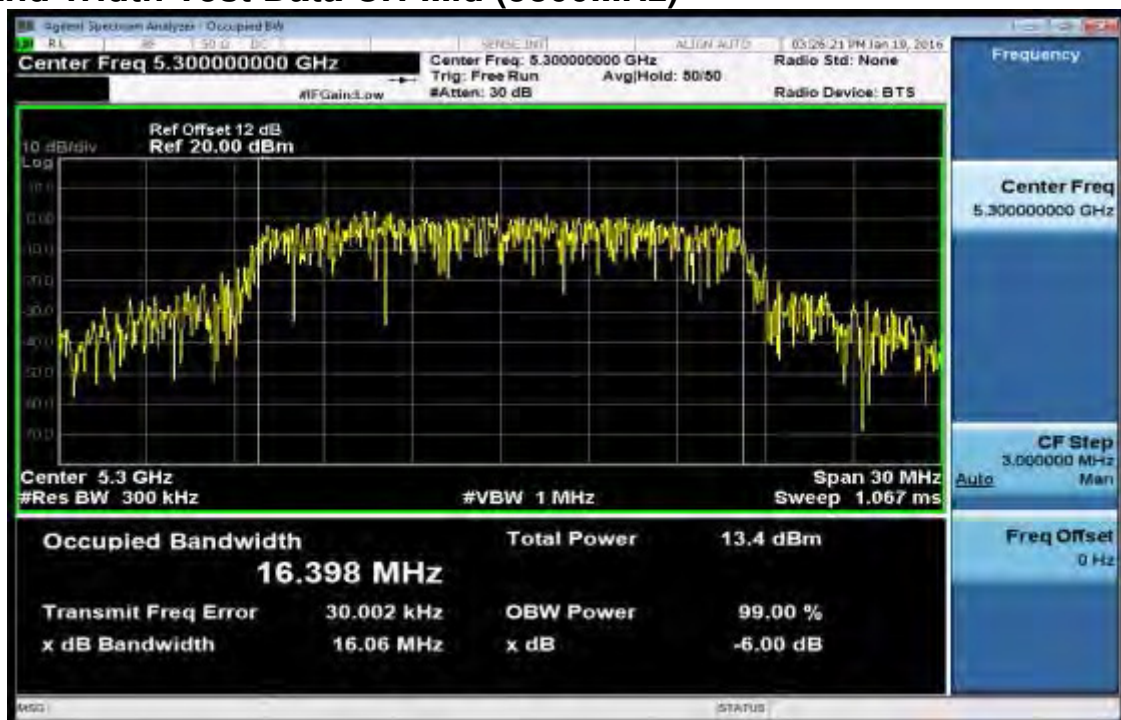
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## 802.11a, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260MHz)



## 99% Band Width Test Data CH-Mid (5300MHz)



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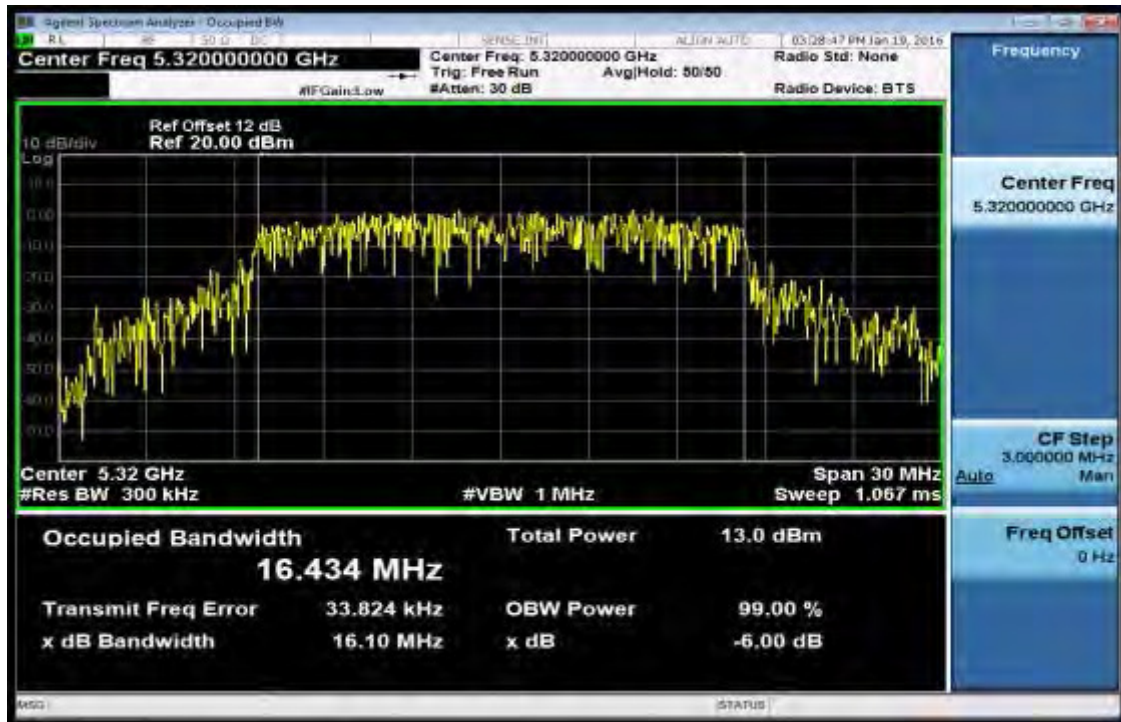
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## 99% Band Width Test Data CH-High (5320MHz)



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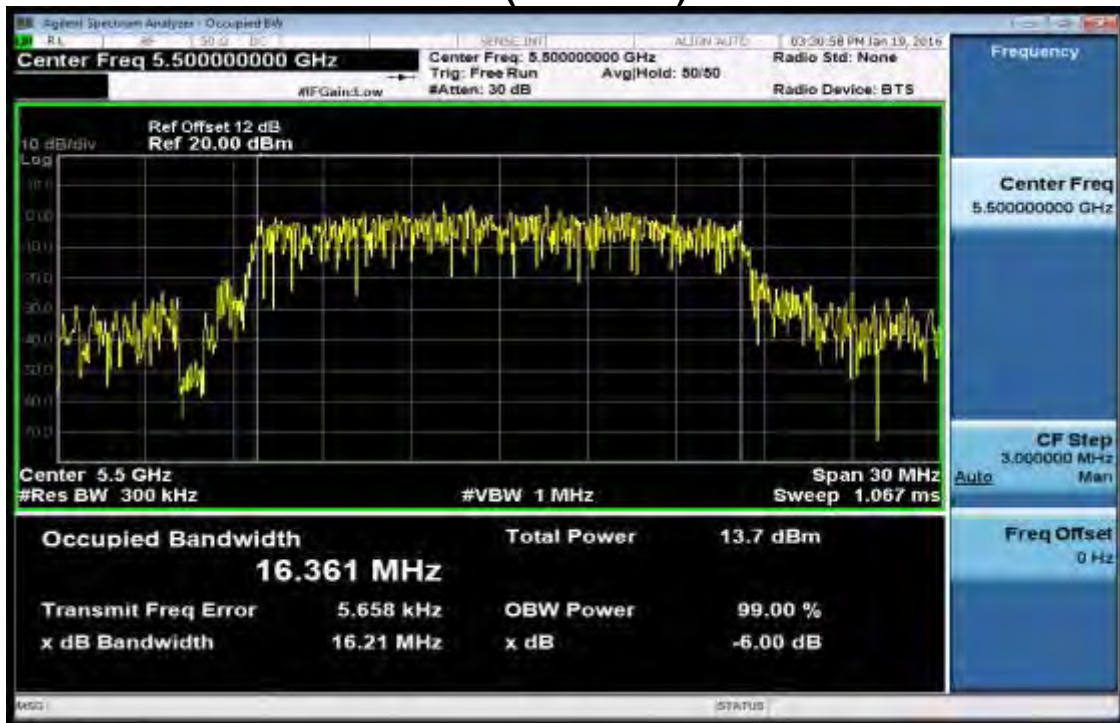
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## 802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



## 99% Band Width Test Data CH-Mid (5580MHz)



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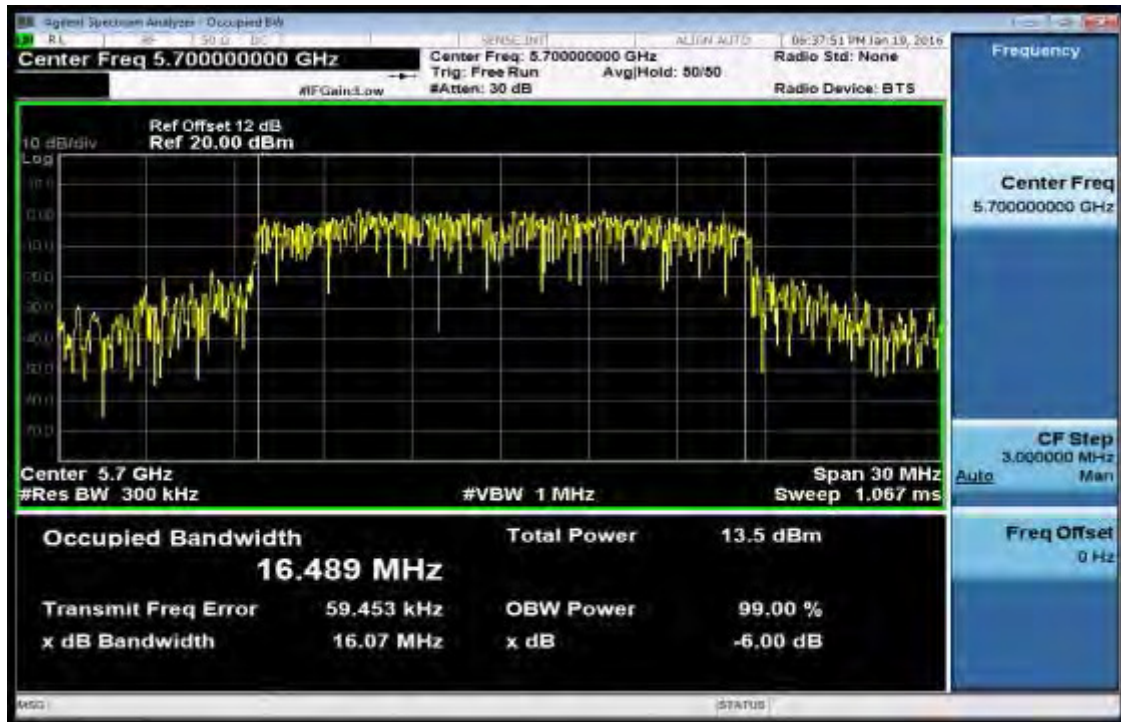
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## 99% Band Width Test Data CH-High (5700MHz)



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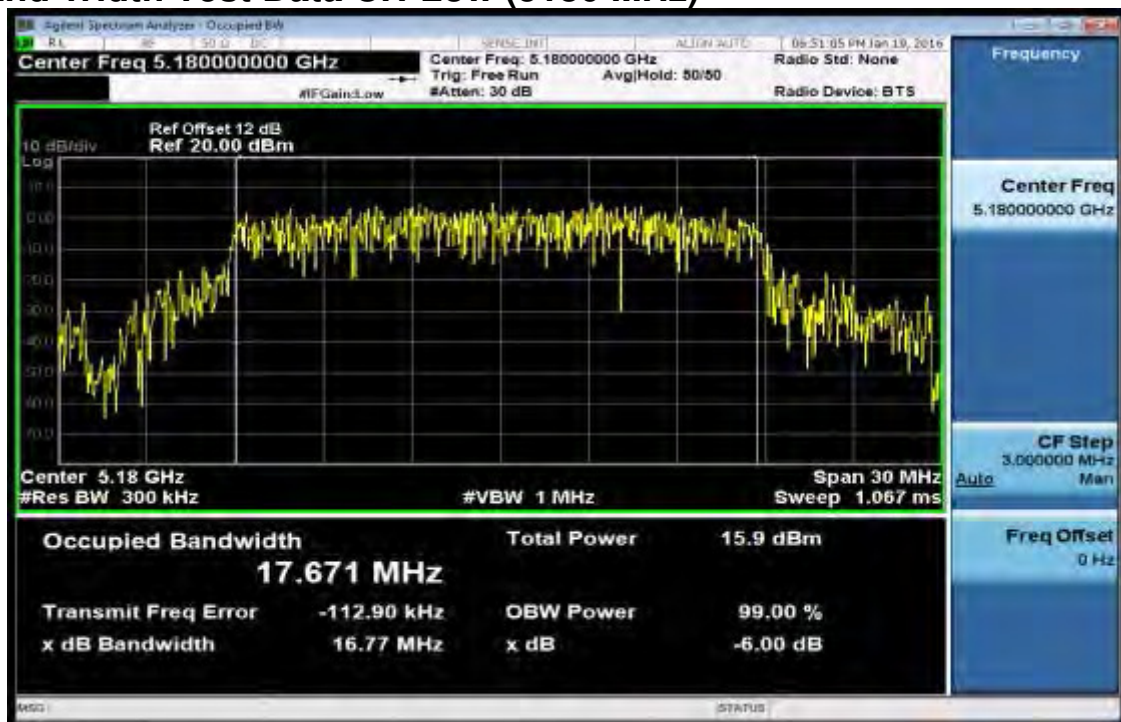
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## 802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



## 99% Band Width Test Data CH-Mid (5220 MHz)



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## 99% Band Width Test Data CH-High (5240 MHz)



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## 802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



## 99% Band Width Test Data CH-Mid (5300 MHz)



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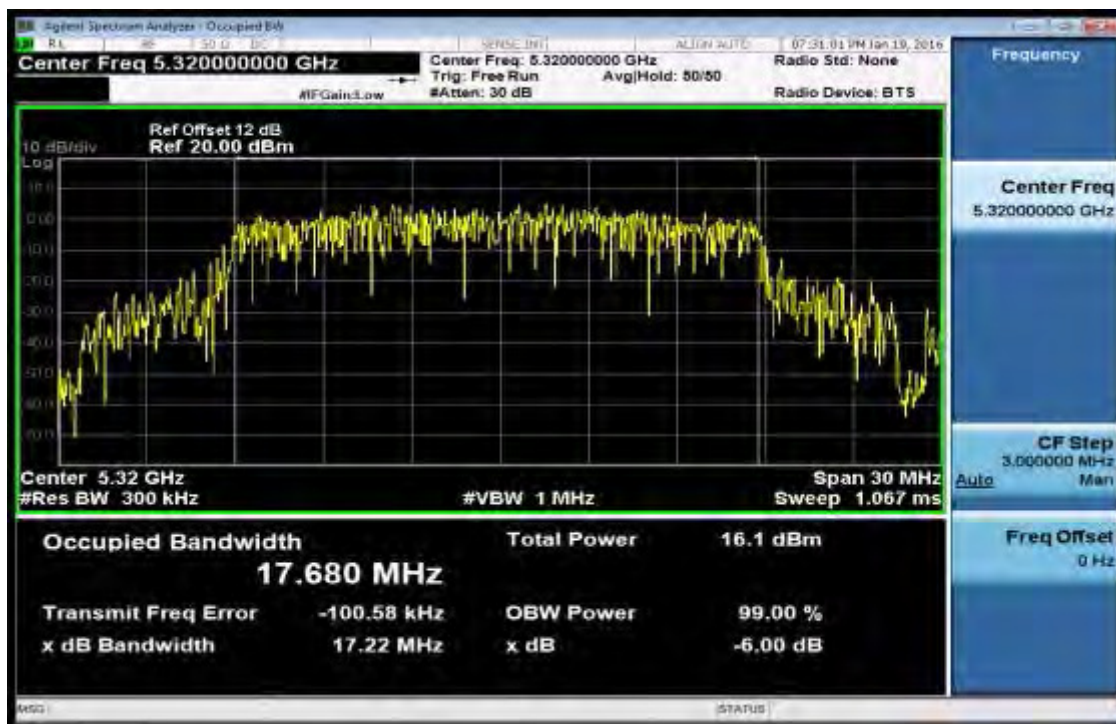
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## 99% Band Width Test Data CH-High (5320 MHz)



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## 802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500 MHz)



## 99% Band Width Test Data CH-Mid (5580 MHz)



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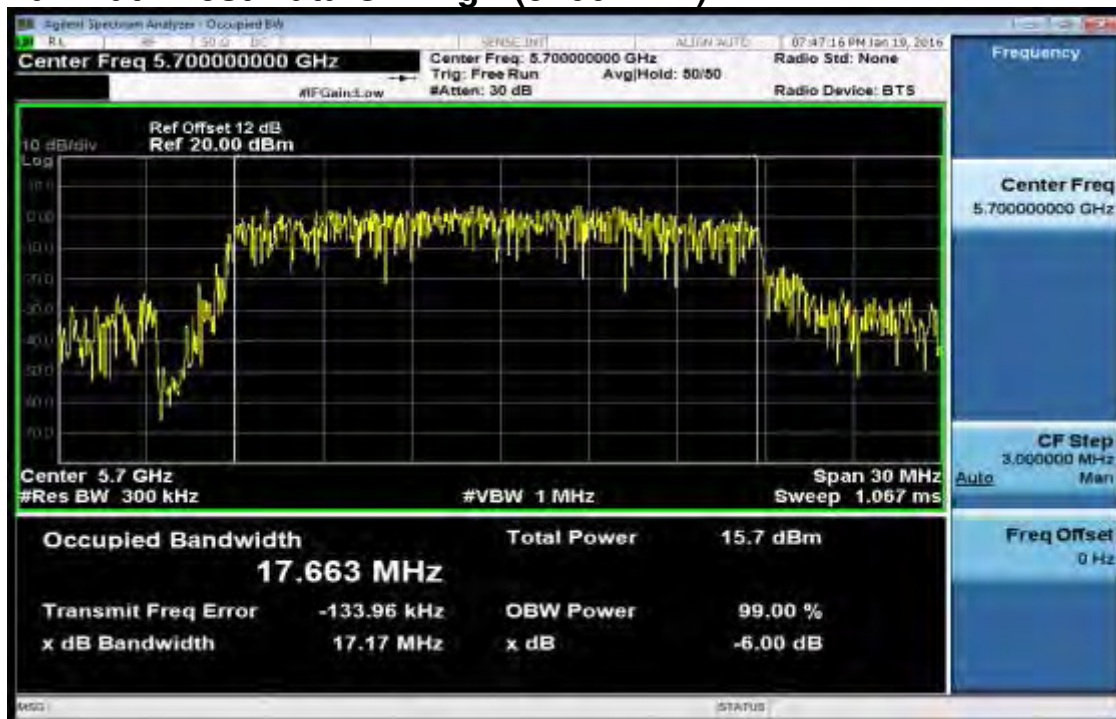
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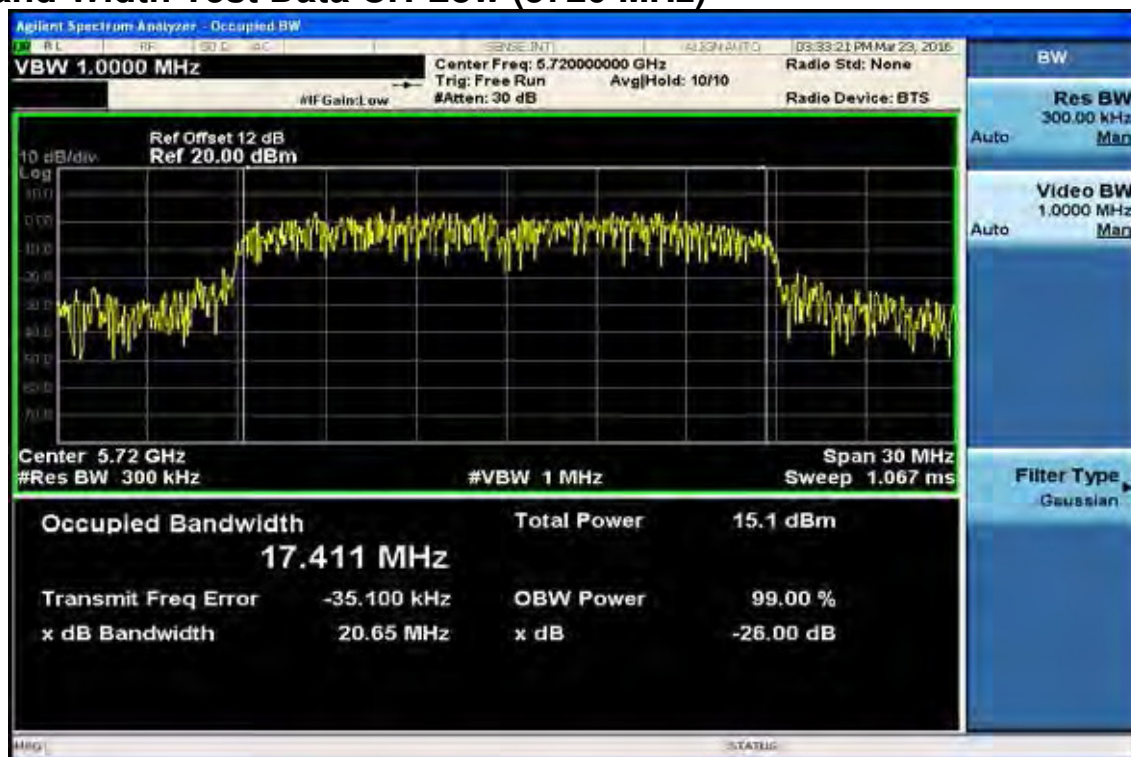


## 99% Band Width Test Data CH-High (5700 MHz)



## 802.11ac VHT20, 5470~5725 MHz (Main)

## 99% Band Width Test Data CH-Low (5720 MHz)



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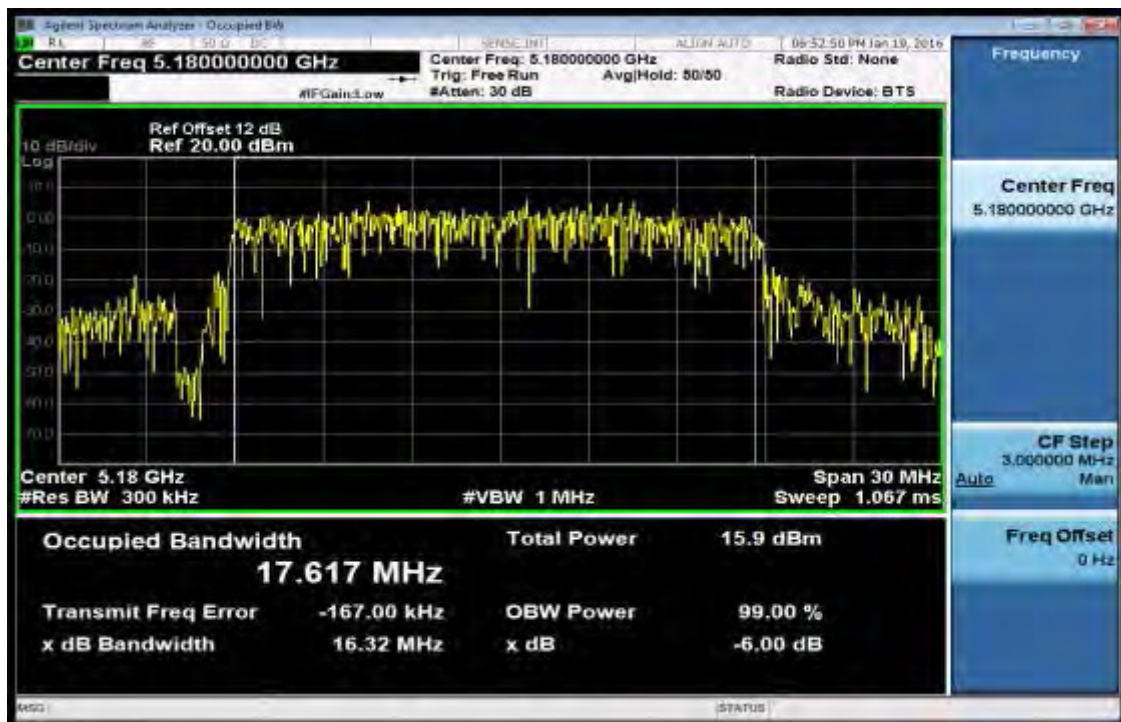
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## 802.11n HT20, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Low (5180 MHz)



## 99% Band Width Test Data CH-Mid (5220 MHz)



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## 99% Band Width Test Data CH-High (5240 MHz)



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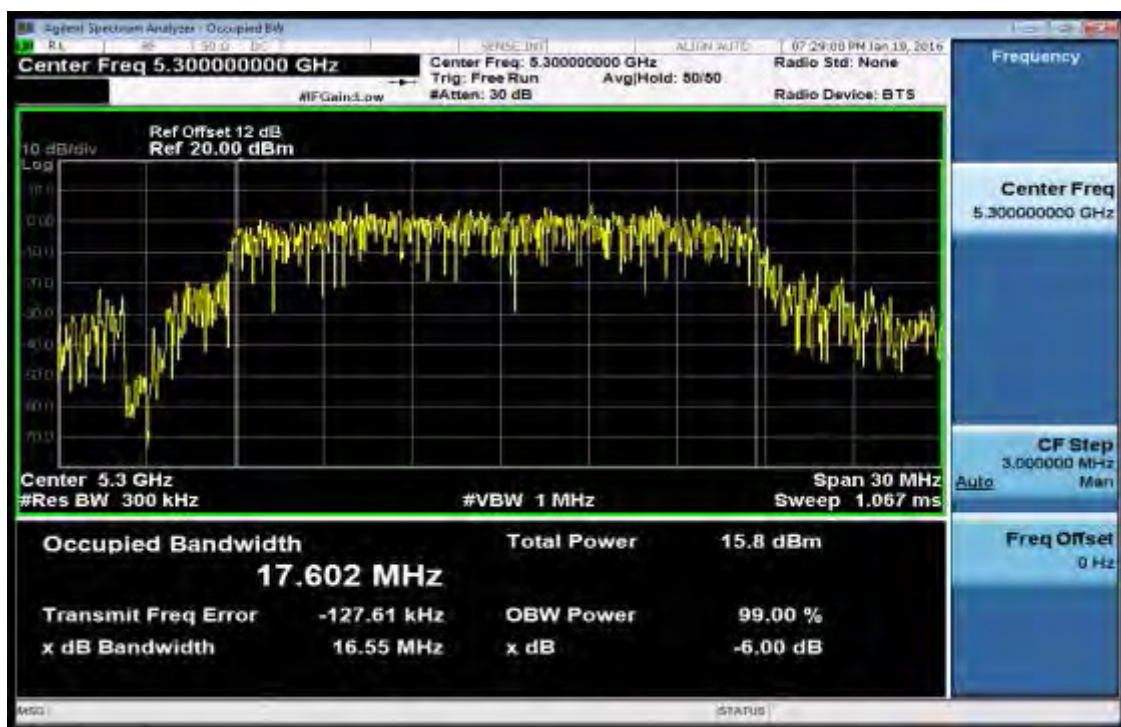
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## 802.11n HT20, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5260 MHz)



## 99% Band Width Test Data CH-Mid (5300 MHz)



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## 99% Band Width Test Data CH-High (5320 MHz)



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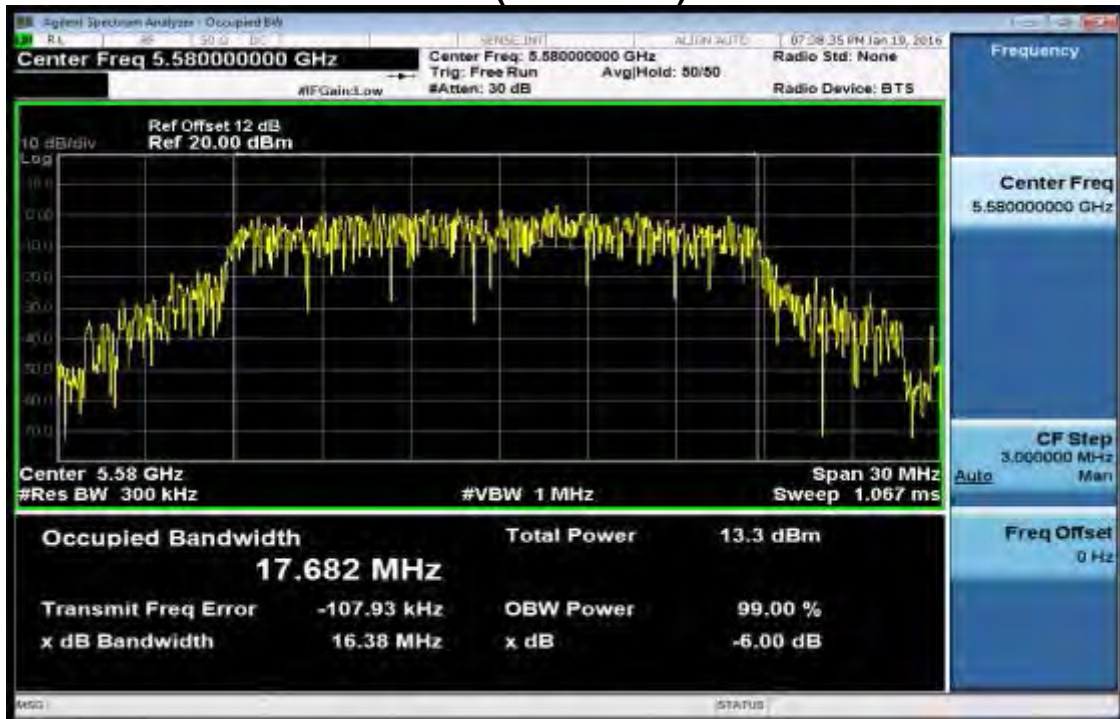
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## 802.11n HT20, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5500 MHz)



## 99% Band Width Test Data CH-Mid (5580 MHz)



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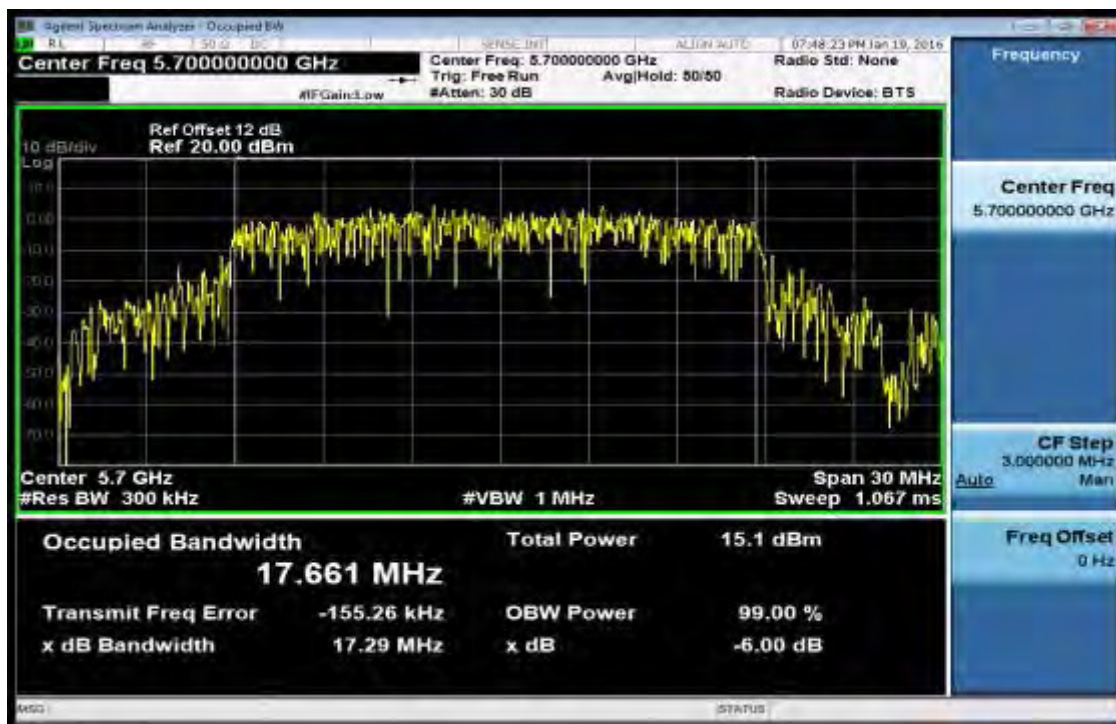
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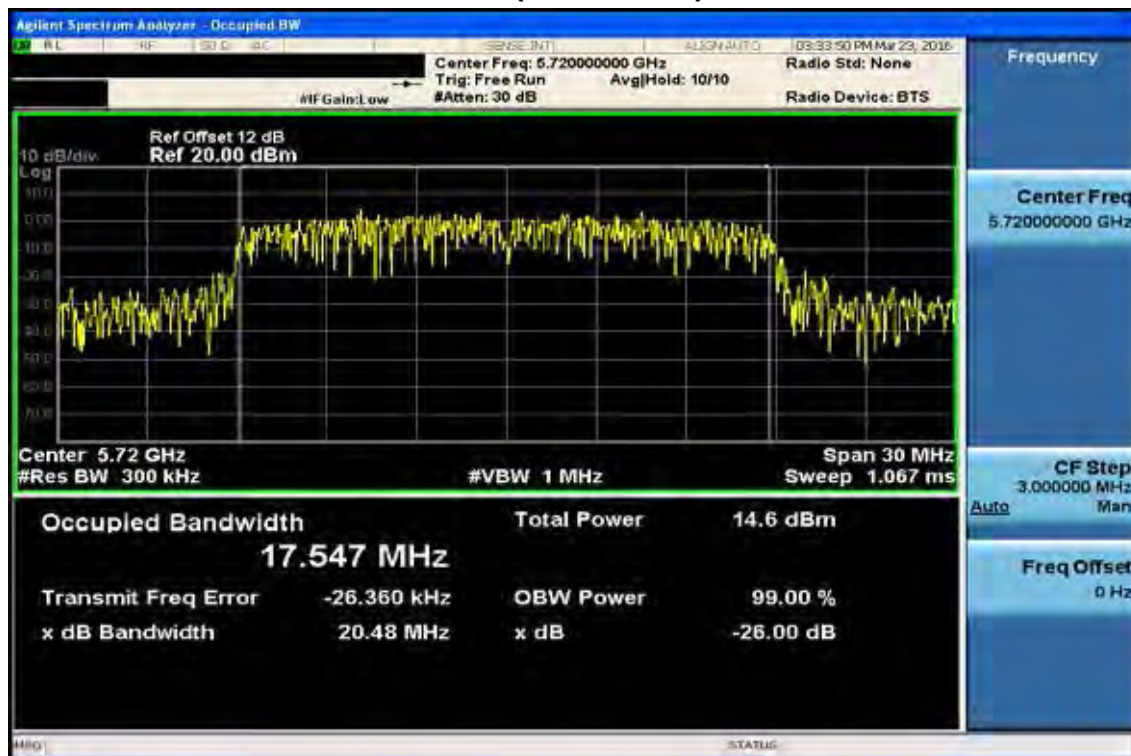


## 99% Band Width Test Data CH-High (5700 MHz)



## 802.11ac VHT20, 5470~5725 MHz (Aux)

## 99% Band Width Test Data CH-Low (5720 MHz)



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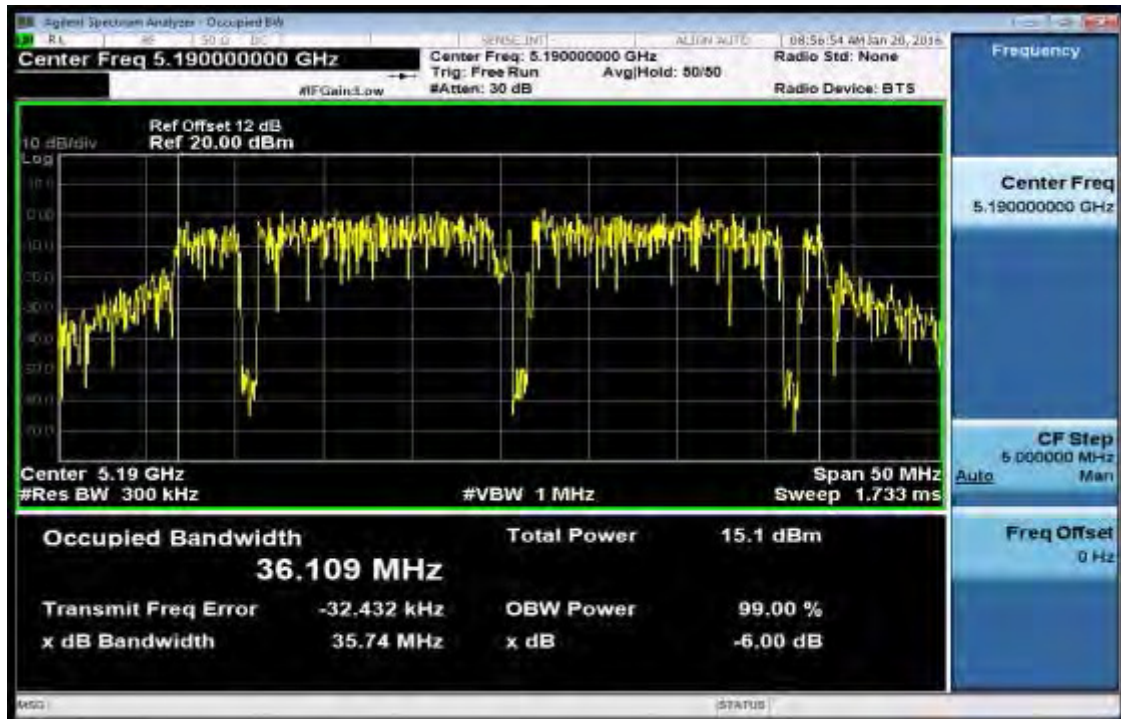
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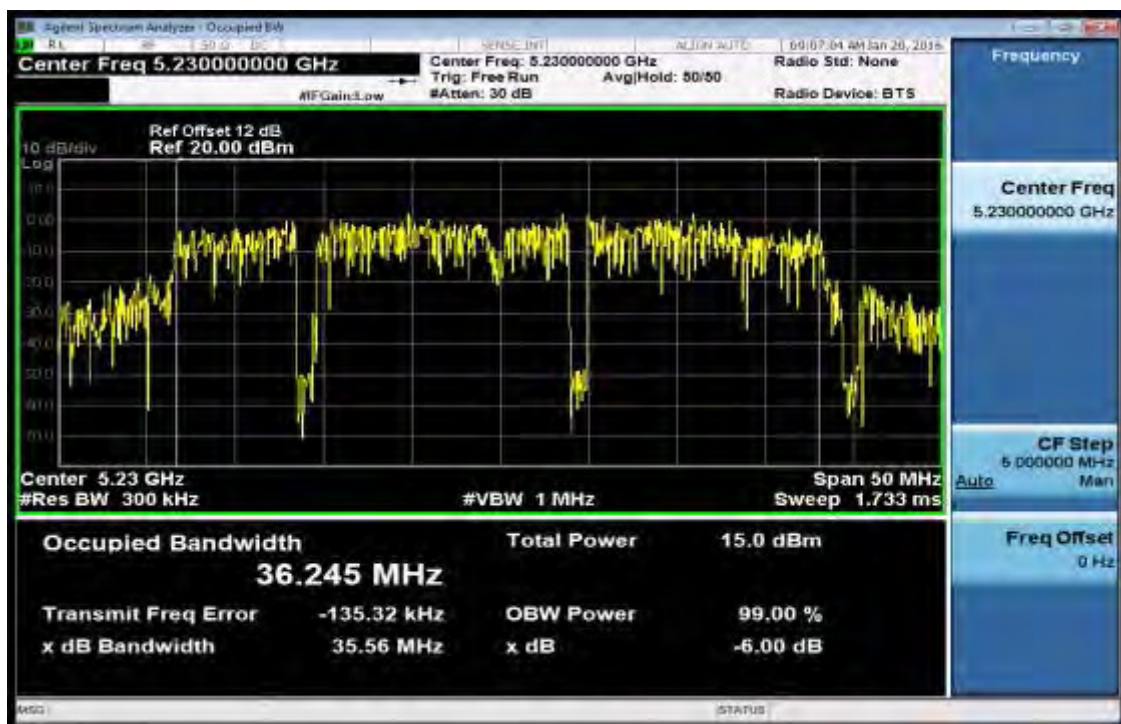
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## 802.11n HT40, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5190 MHz)



## 99% Band Width Test Data CH-High (5230 MHz)



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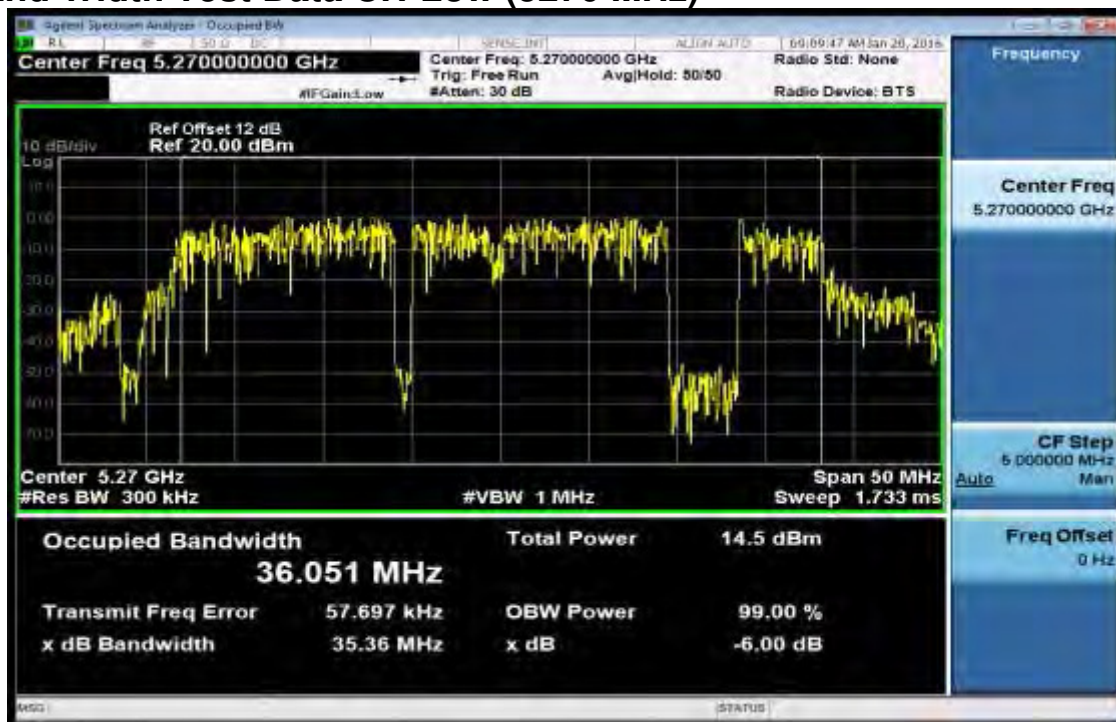
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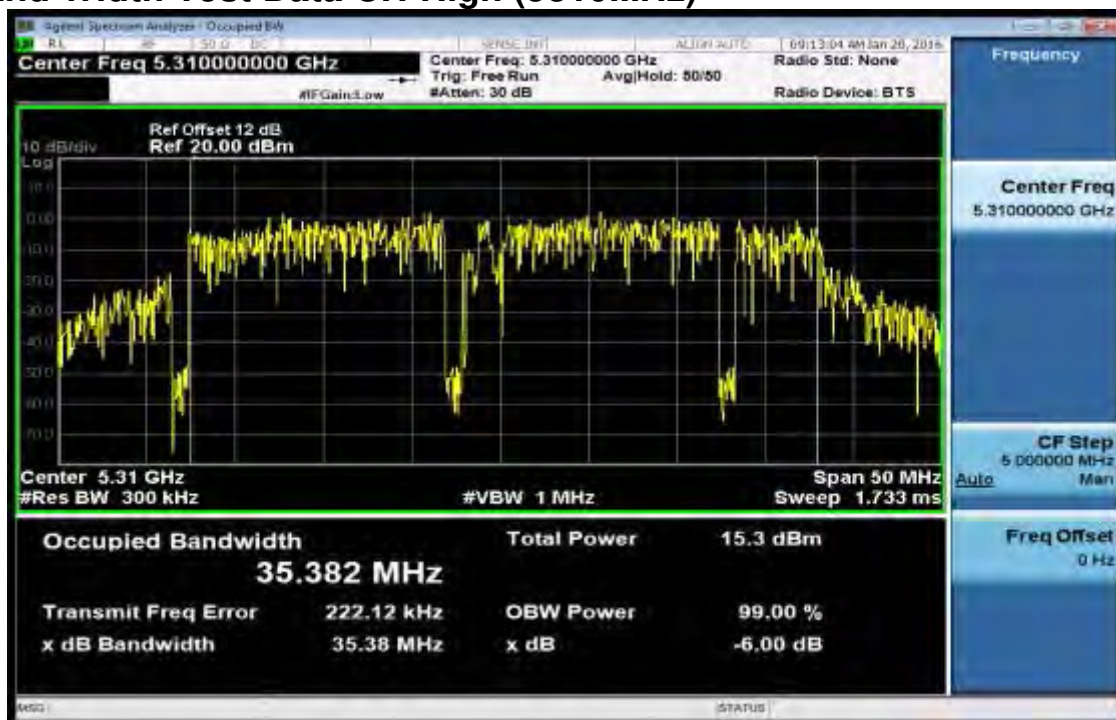
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## 802.11n HT40, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5270 MHz)



## 99% Band Width Test Data CH-High (5310MHz)



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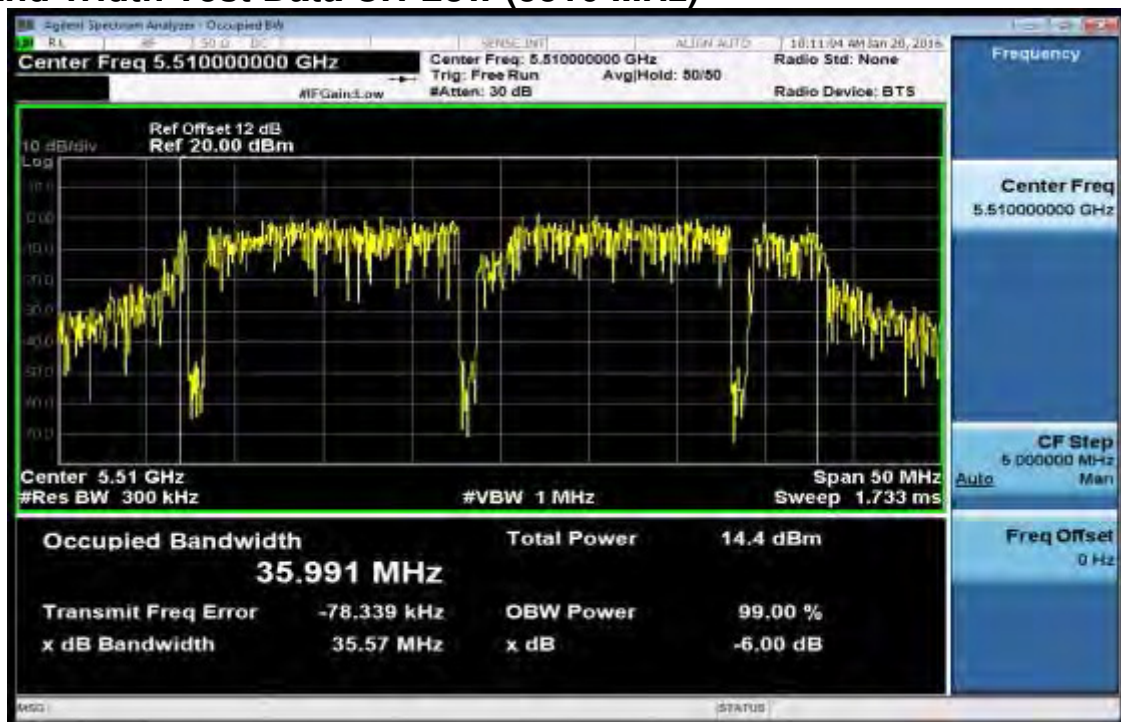
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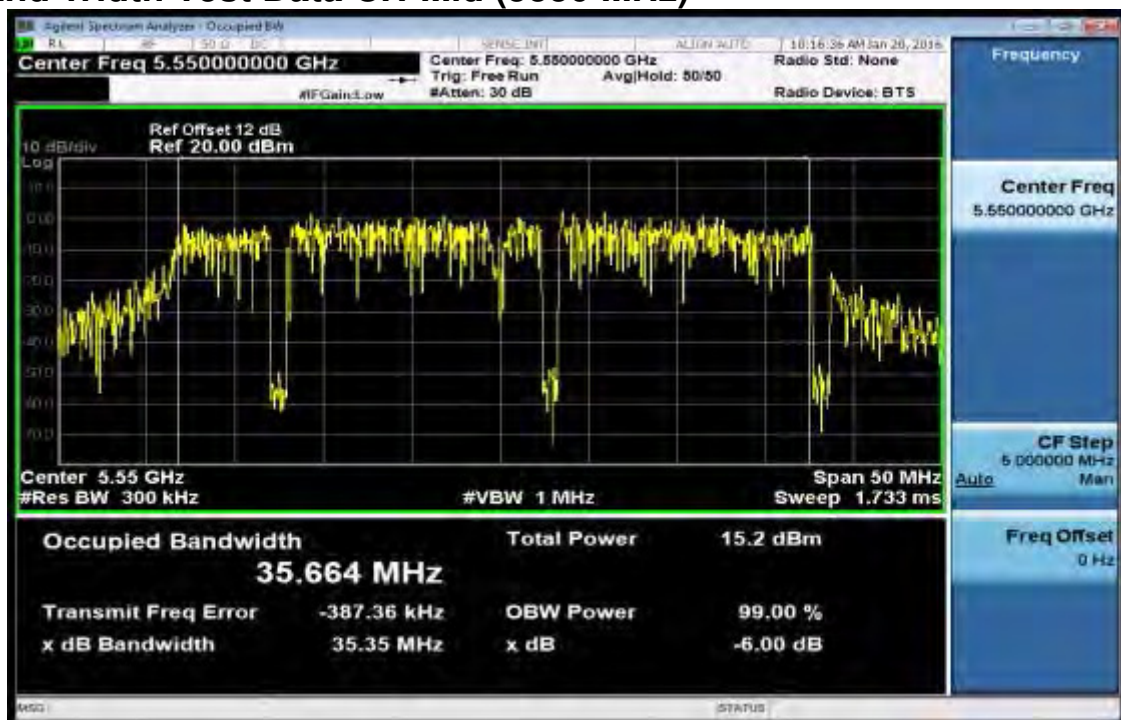
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## 802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5510 MHz)



## 99% Band Width Test Data CH-Mid (5550 MHz)



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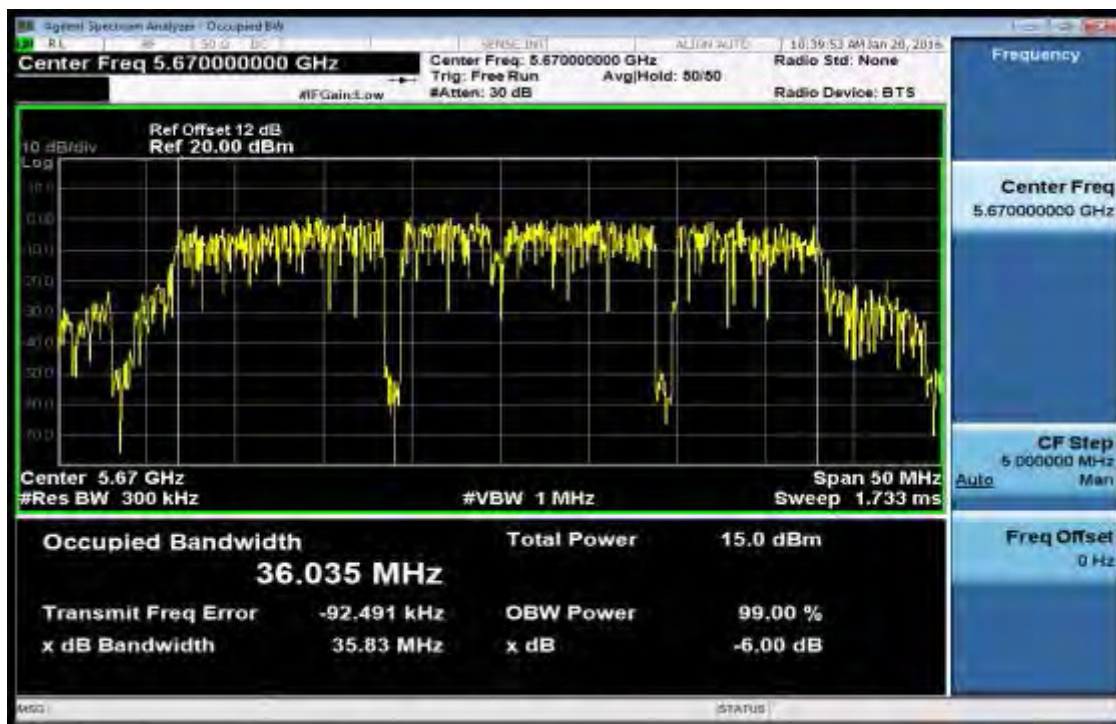
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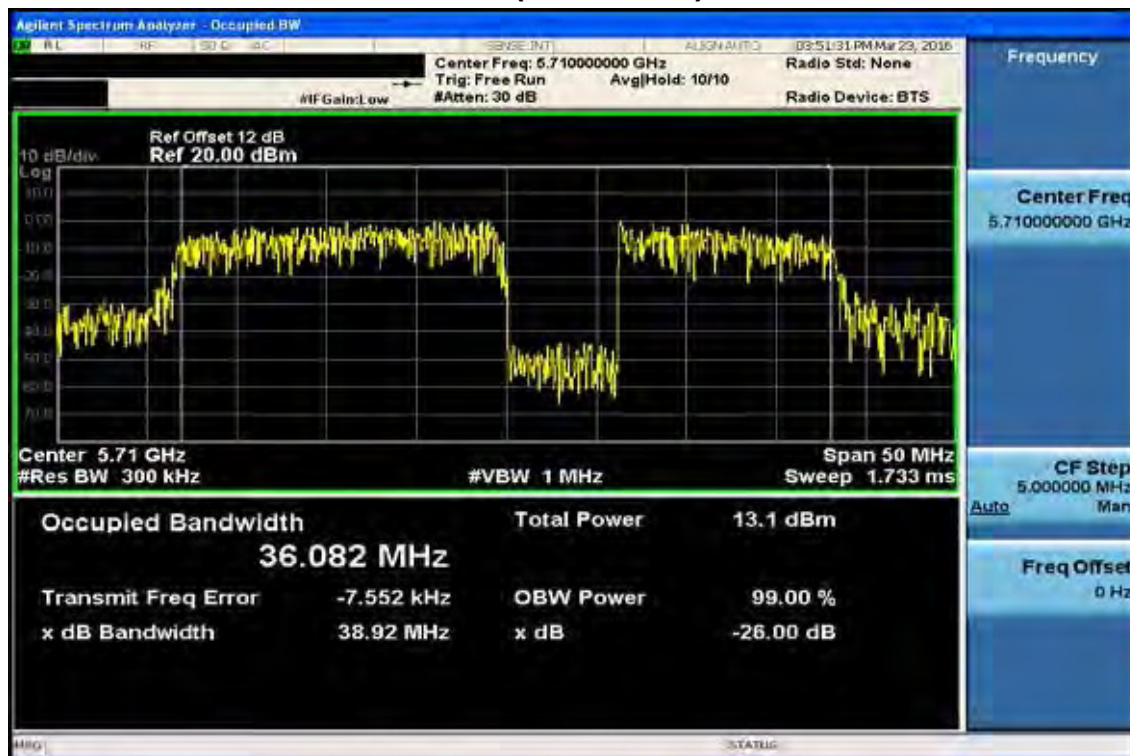


## 99% Band Width Test Data CH-High (5670 MHz)



## 802.11ac VHT40, 5470~5725 MHz (Main)

## 99% Band Width Test Data CH-Low (5710 MHz)



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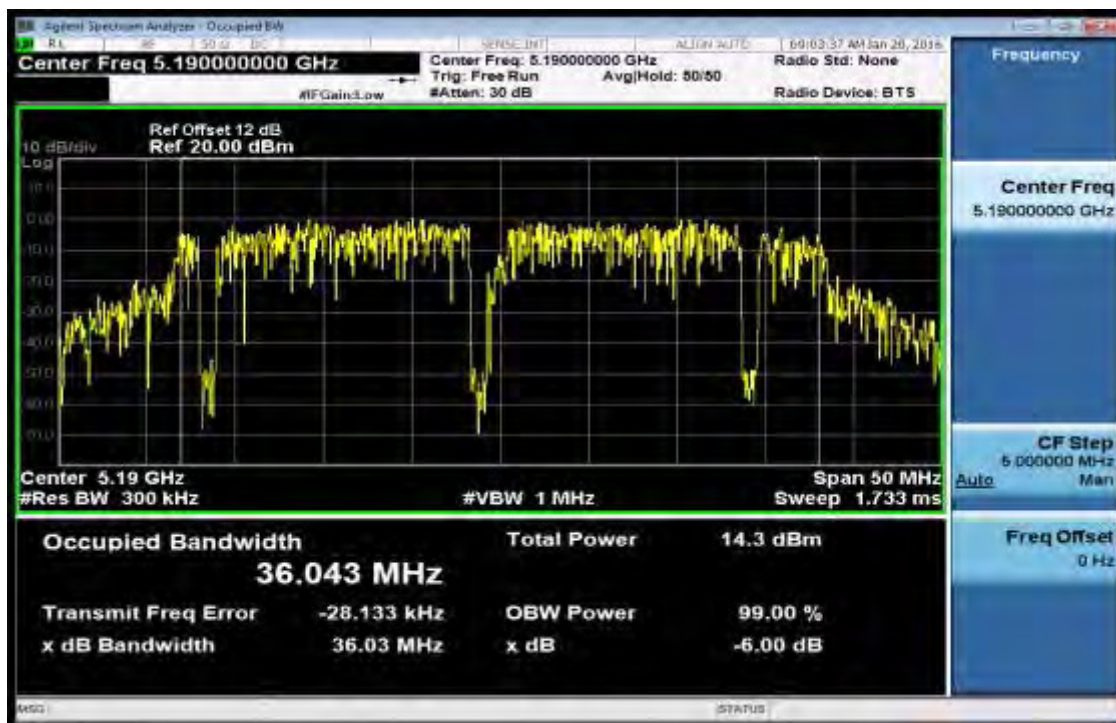
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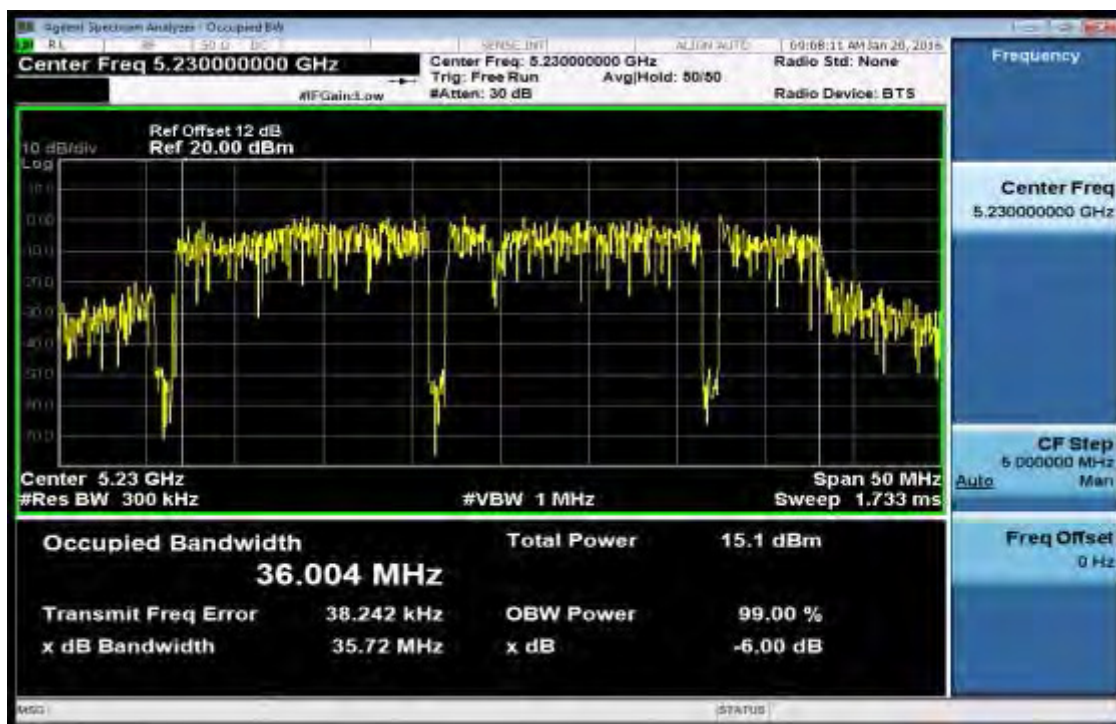
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## 802.11n HT40, 5150~5250 MHz (Aux)

### 99% Band Width Test Data CH-Low (5190 MHz)



### 99% Band Width Test Data CH-High (5230 MHz)



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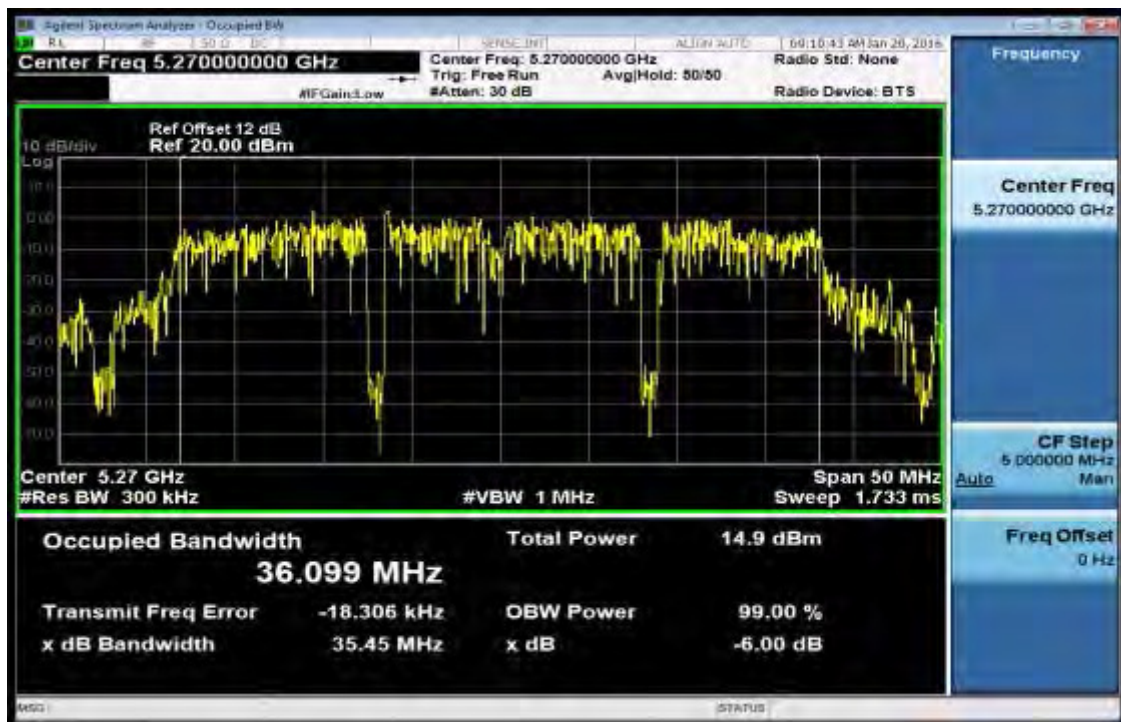
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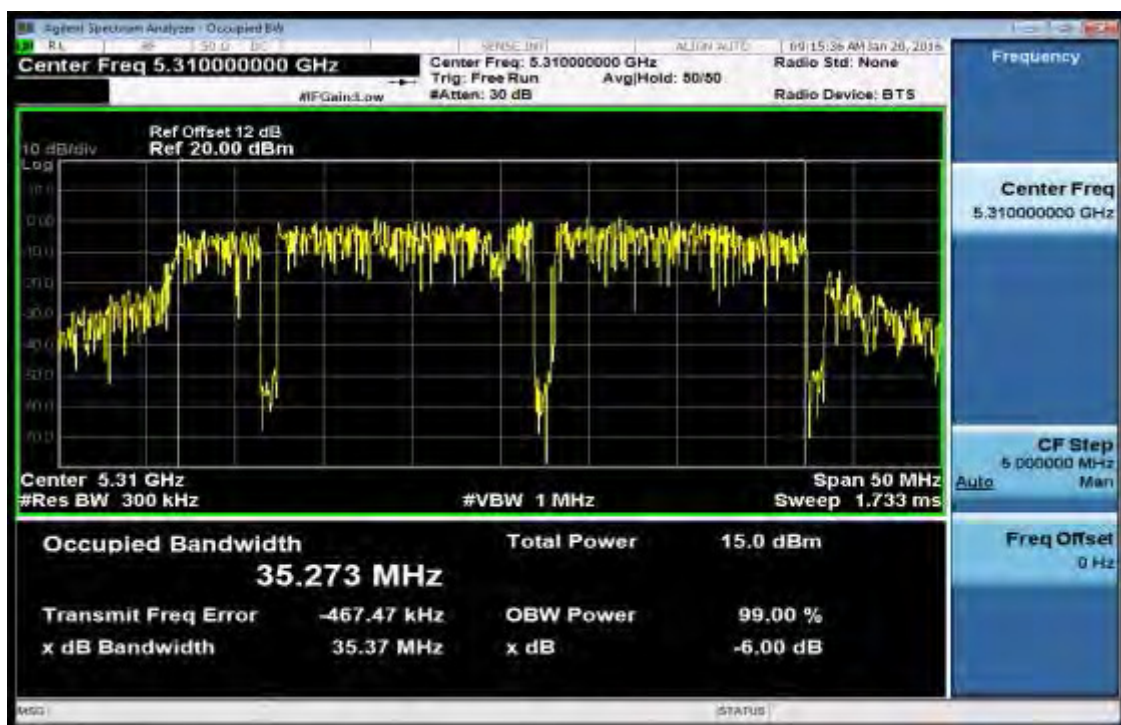
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## 802.11n HT40, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5270 MHz)



## 99% Band Width Test Data CH-High (5310MHz)



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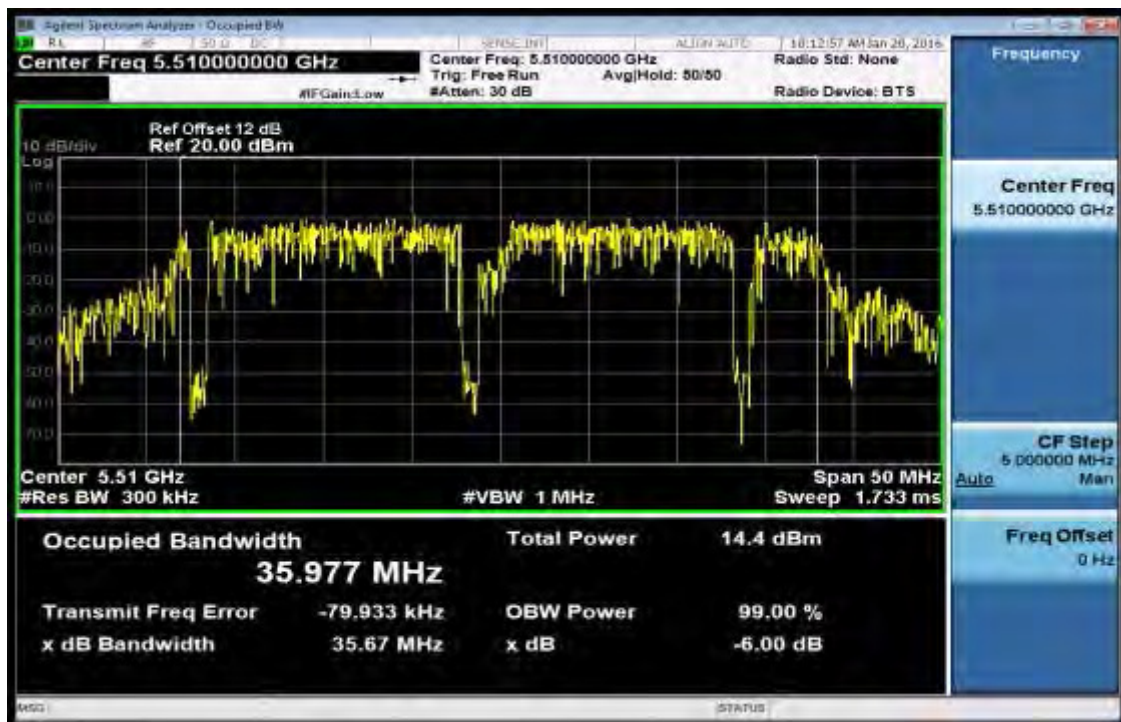
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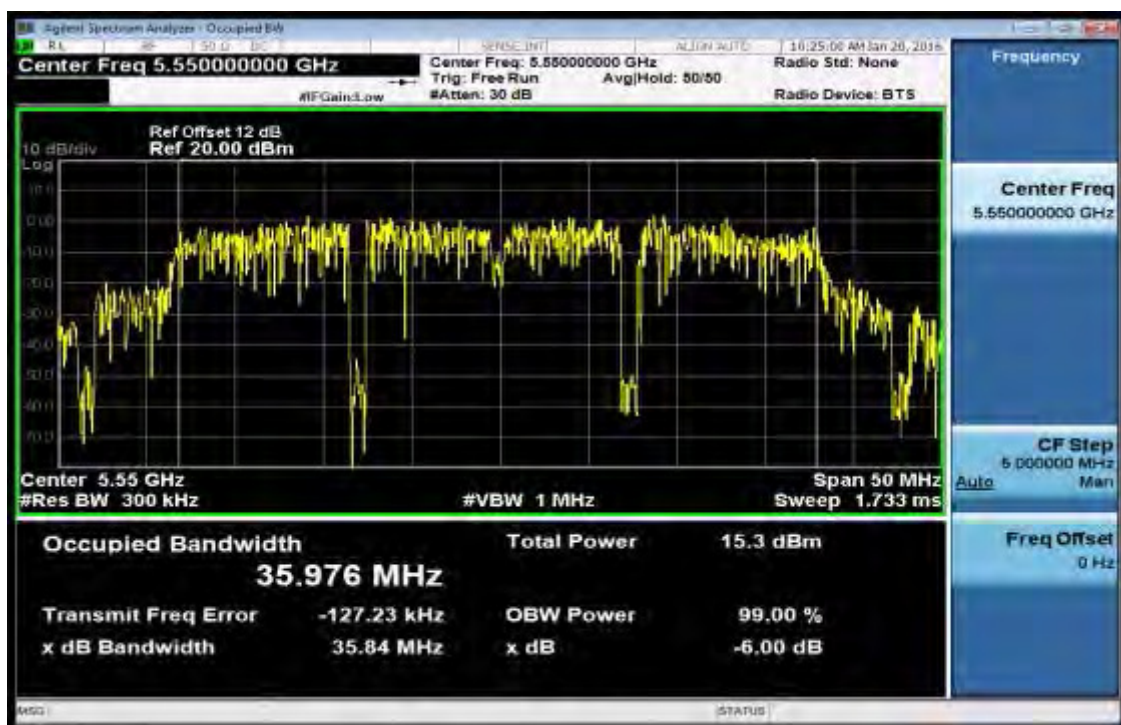
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## 802.11n HT40, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5510 MHz)



## 99% Band Width Test Data CH-Mid (5550 MHz)



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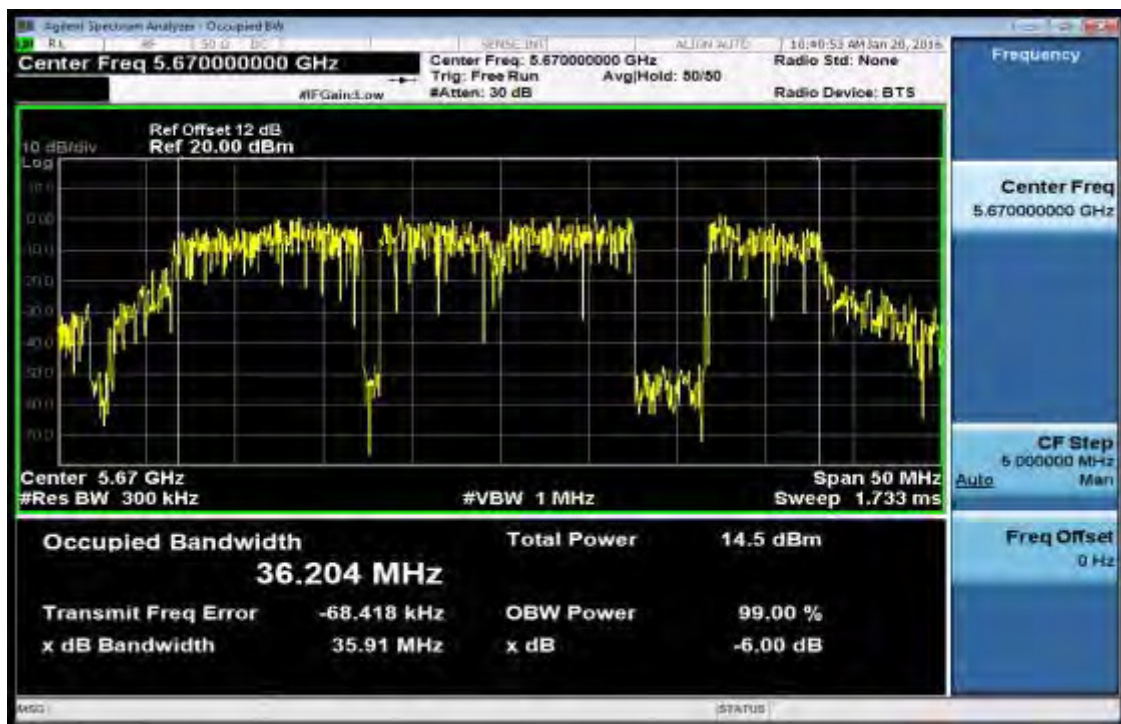
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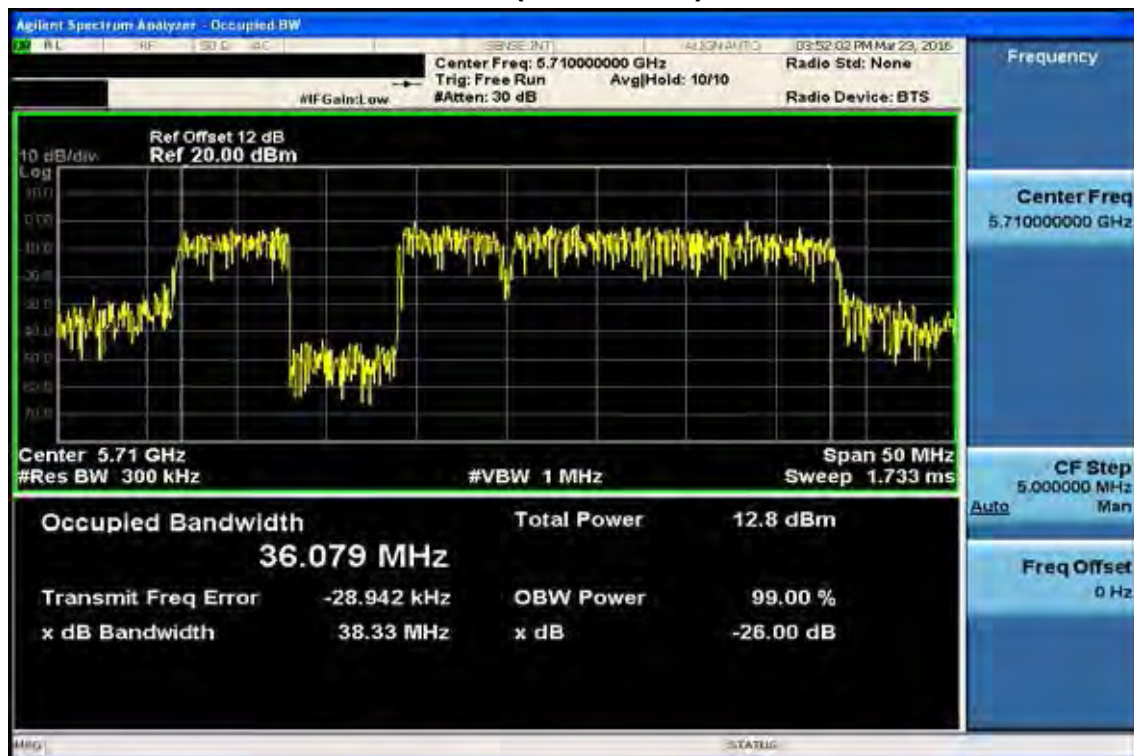


## 99% Band Width Test Data CH-High (5670 MHz)



## 802.11ac VHT40, 5470~5725 MHz (Aux)

## 99% Band Width Test Data CH-Low (5710 MHz)



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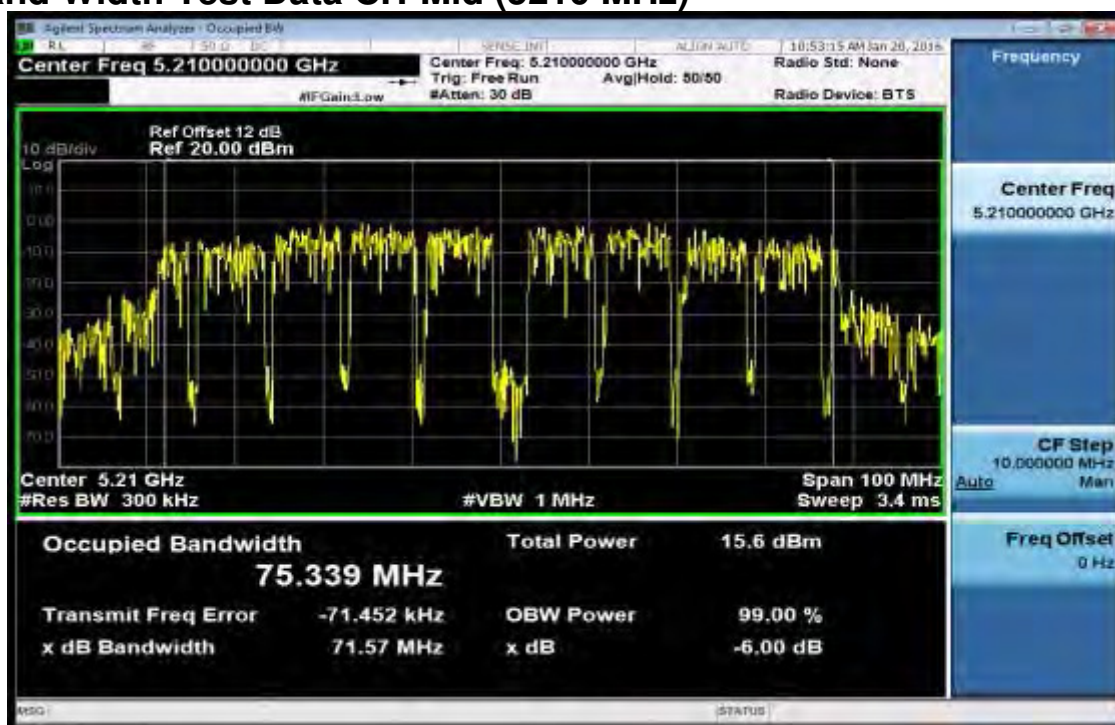
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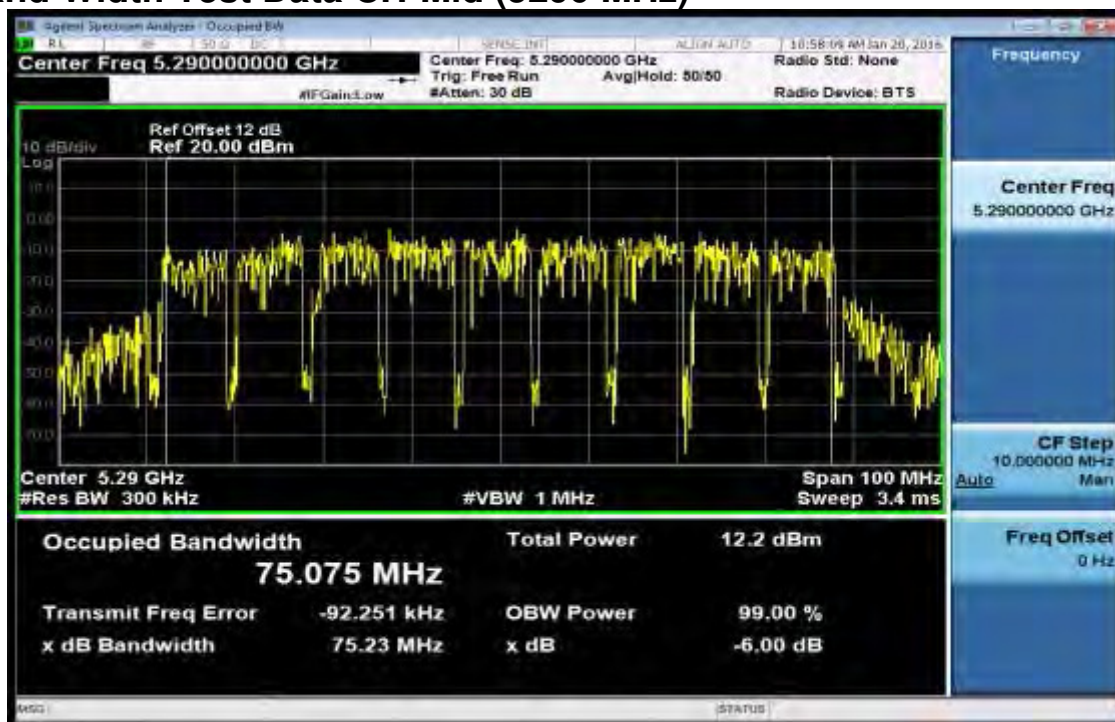
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## 802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



## 802.11ac VHT80, 5250~5350 MHz 99% Band Width Test Data CH-Mid (5290 MHz)



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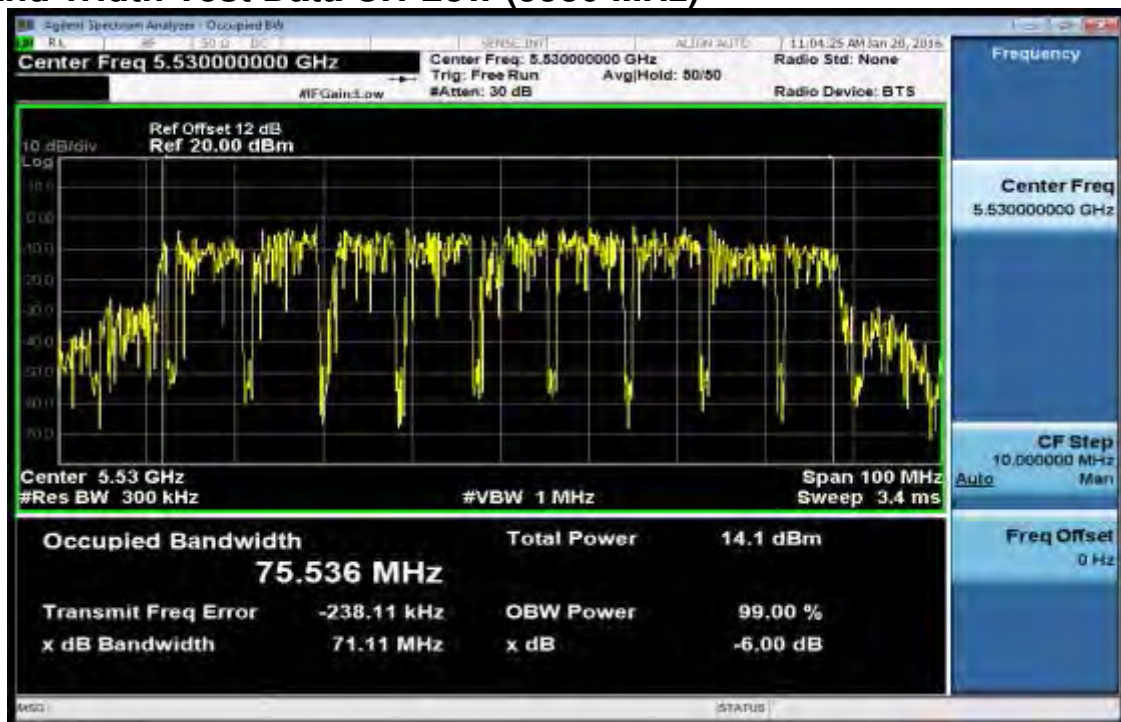
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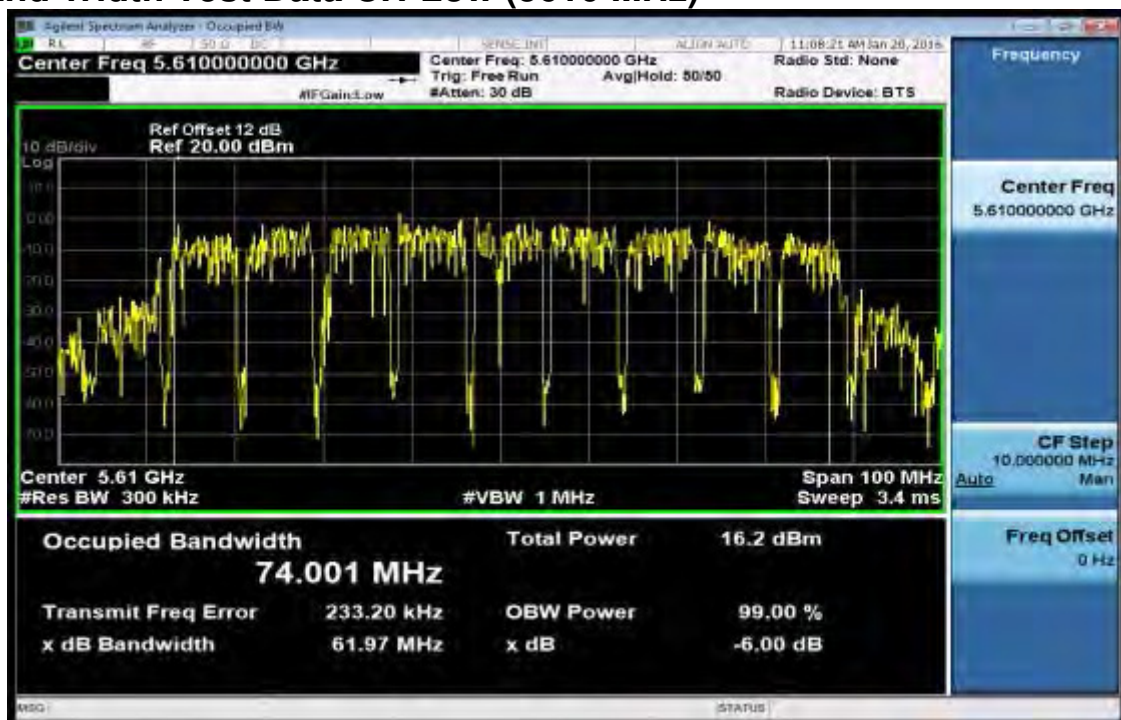
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## 802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5530 MHz)



## 99% Band Width Test Data CH-Low (5610 MHz)



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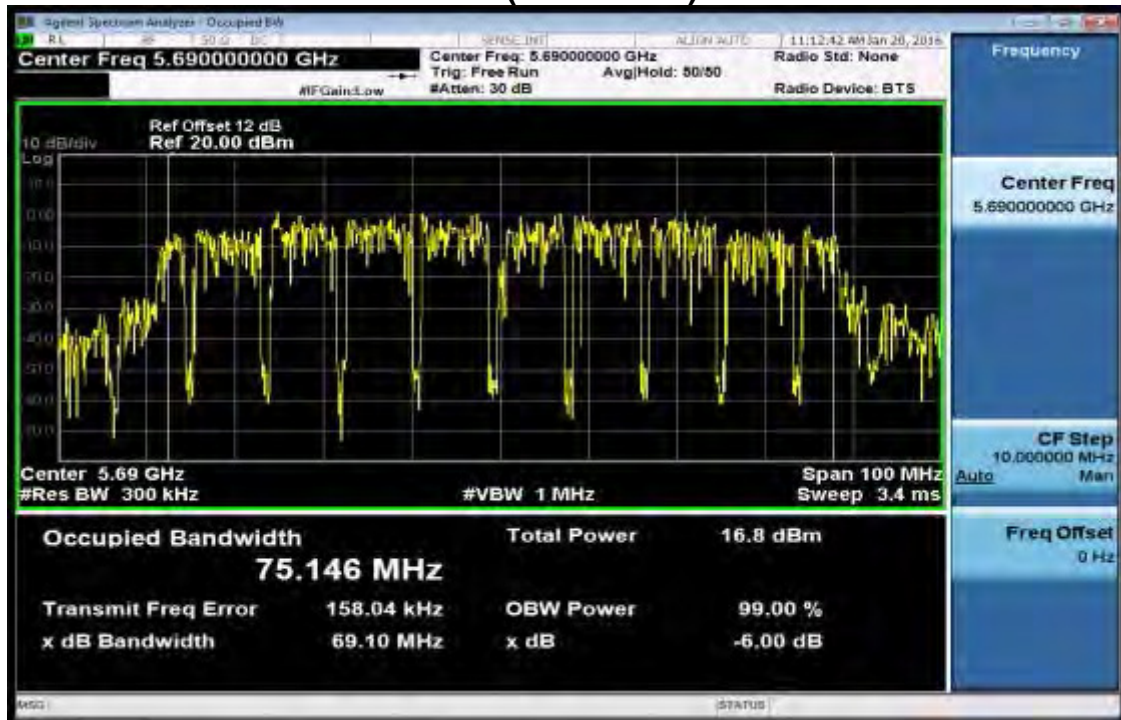
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## 99% Band Width Test Data CH-Low (5690 MHz)



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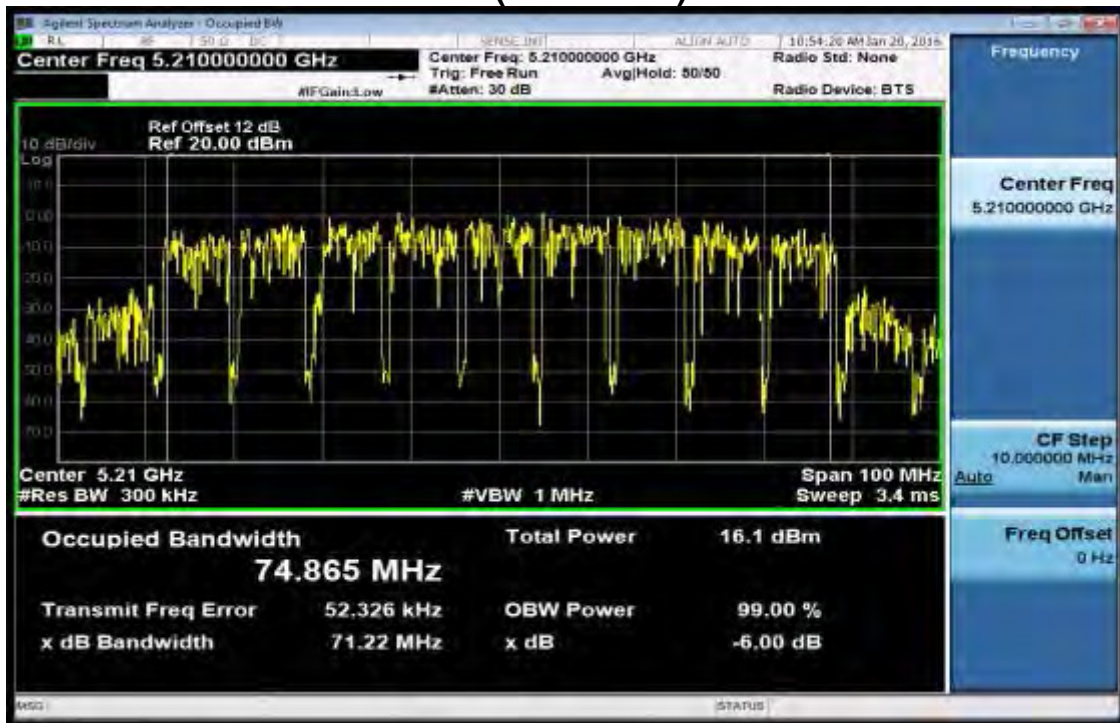
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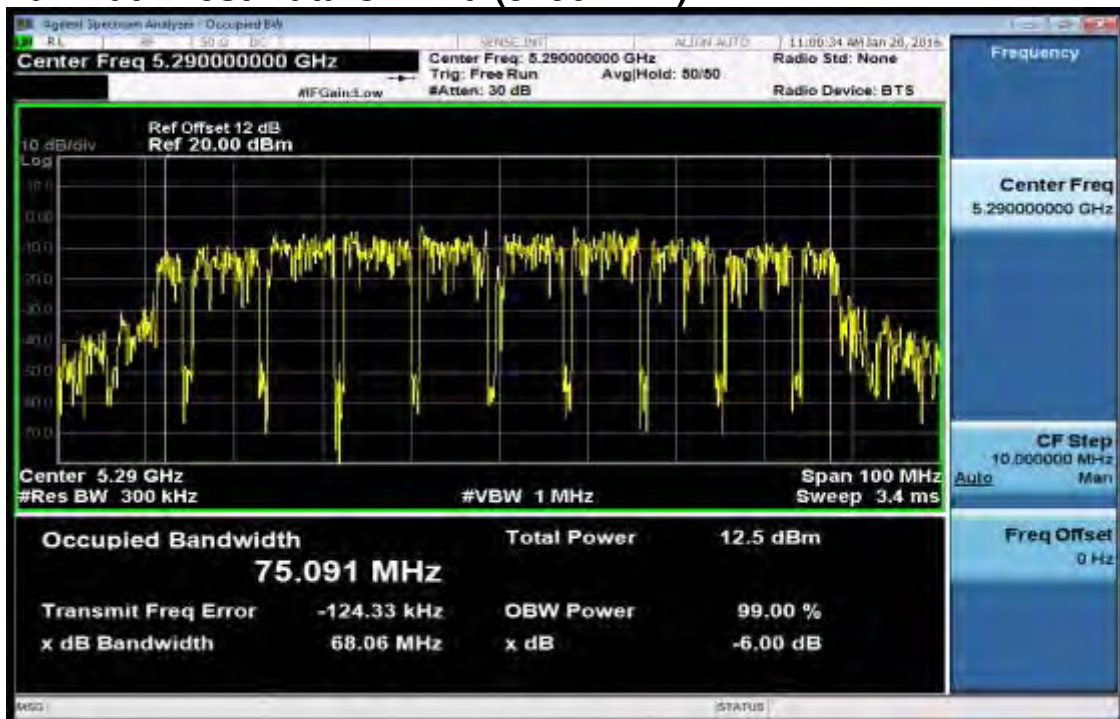
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## 802.11ac VHT80, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Mid (5210 MHz)



## 802.11ac VHT80, 5250~5350 MHz 99% Band Width Test Data CH-Mid (5290 MHz)



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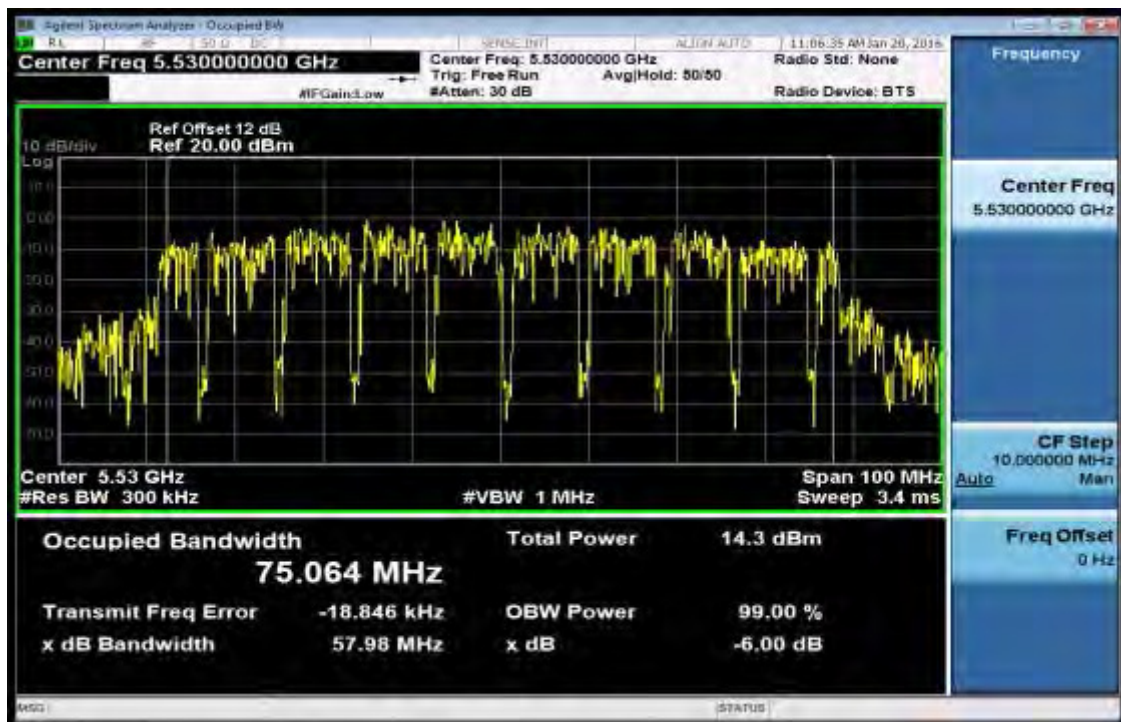
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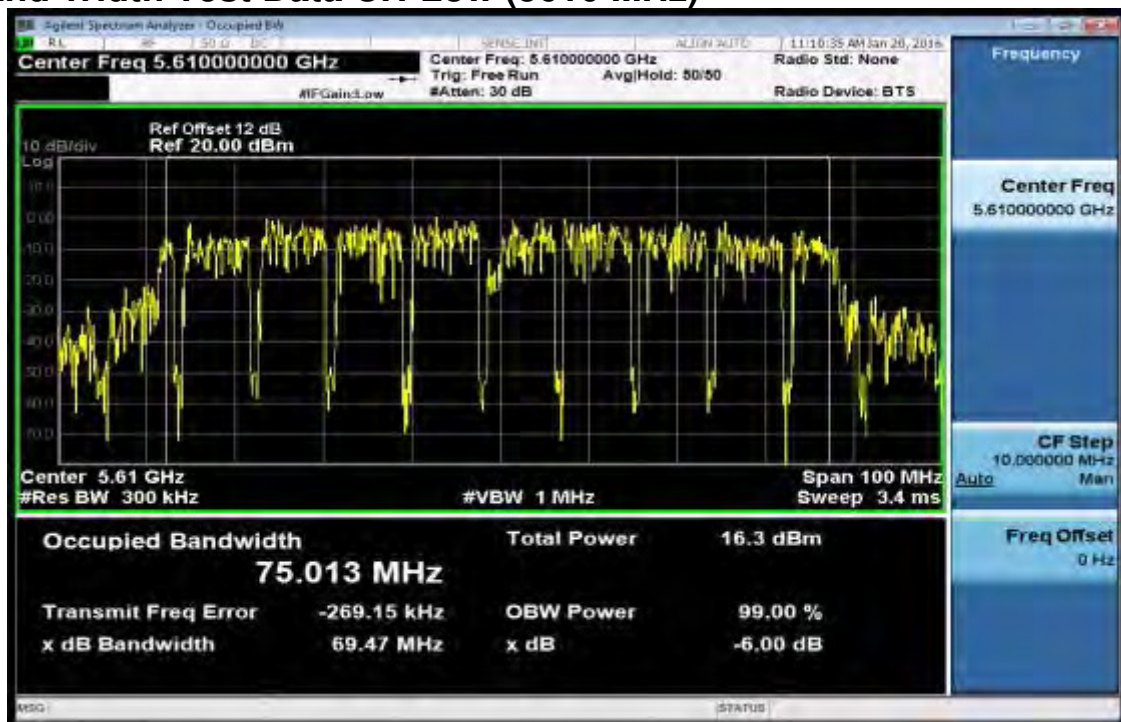
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## 802.11ac VHT80, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5530 MHz)



## 99% Band Width Test Data CH-Low (5610 MHz)



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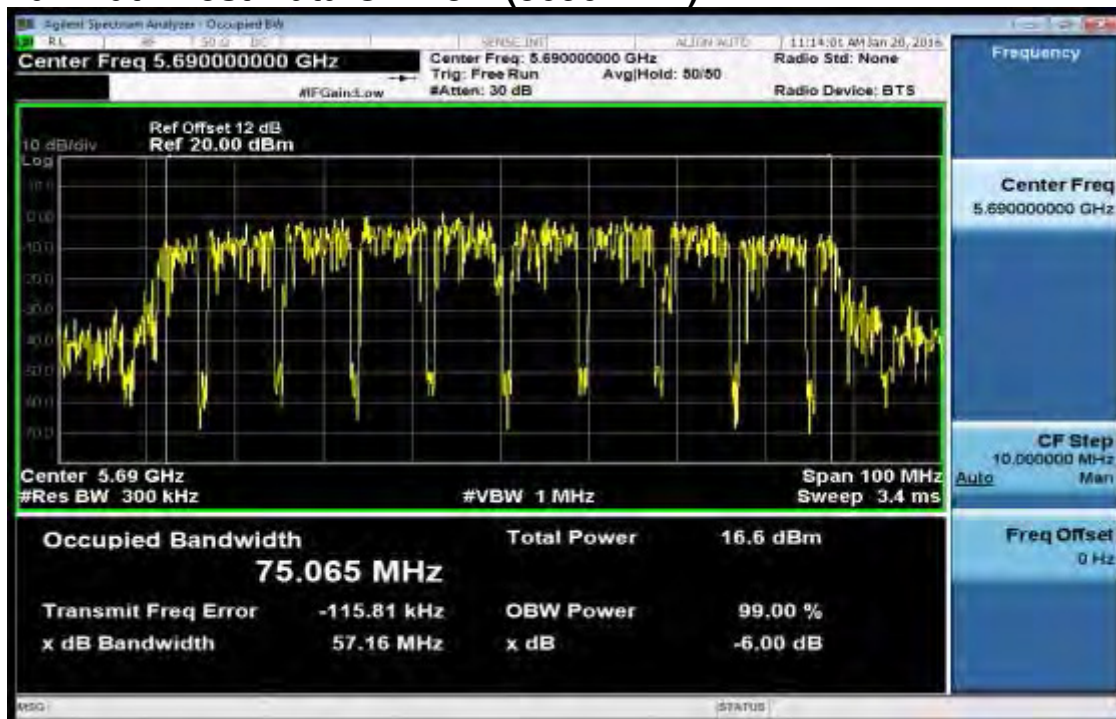
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## 99% Band Width Test Data CH-Low (5690 MHz)



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## 6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

## 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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## 6dB Band Width Test Data CH-High (5825 MHz)



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## 802.11n\_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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## 6dB Band Width Test Data CH-High (5825 MHz)



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## 802.11n\_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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## 6dB Band Width Test Data CH-High (5825 MHz)



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## 802.11n\_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-Mid (5795 MHz)



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## 802.11n\_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-Mid (5795 MHz)



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## 802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



## 802.11ac VHT80, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5775 MHz)



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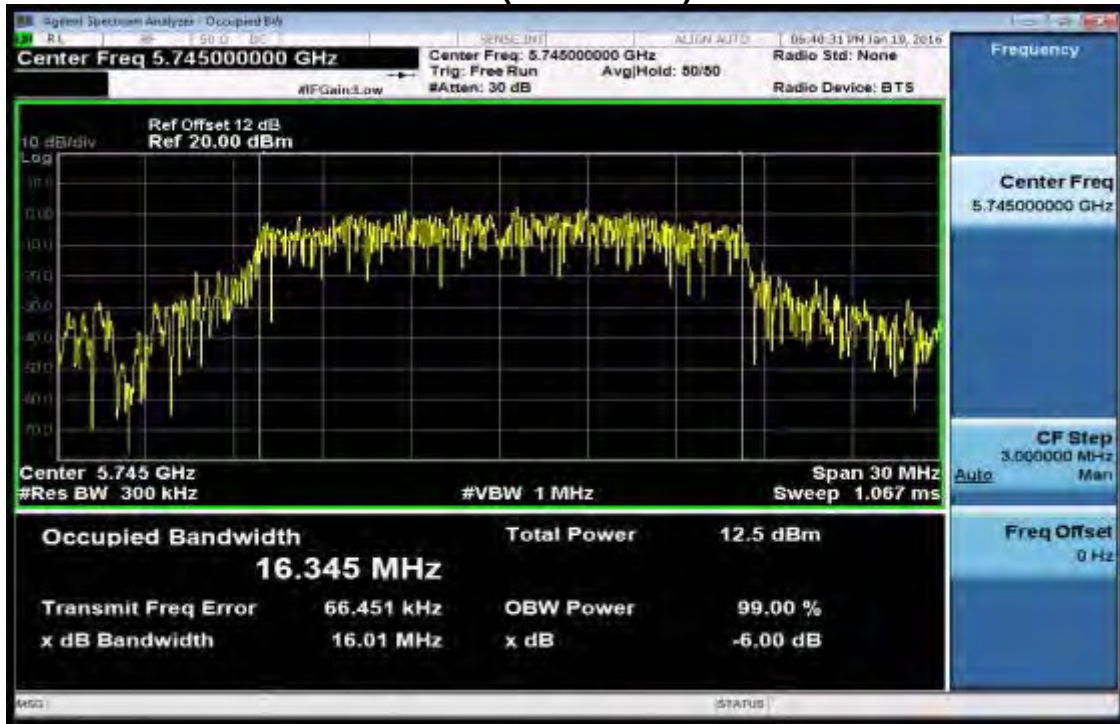
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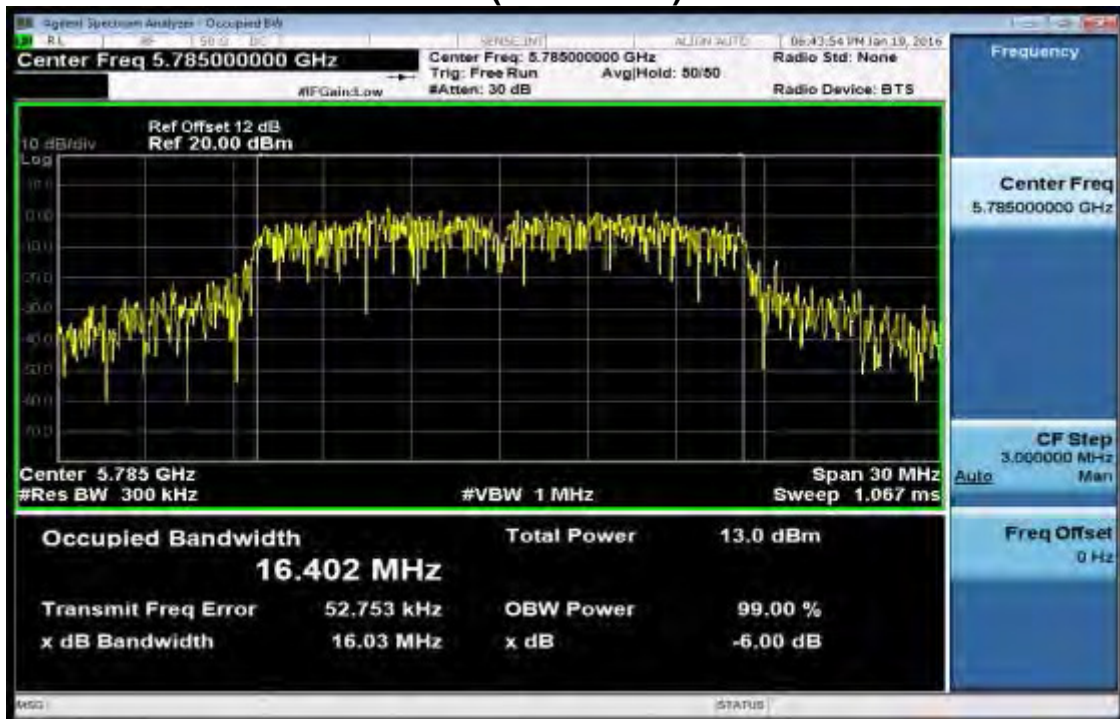
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6dB Band Width measure with Average detector for IC  
802.11a, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)



6dB Band Width Test Data CH-Mid (5785 MHz)



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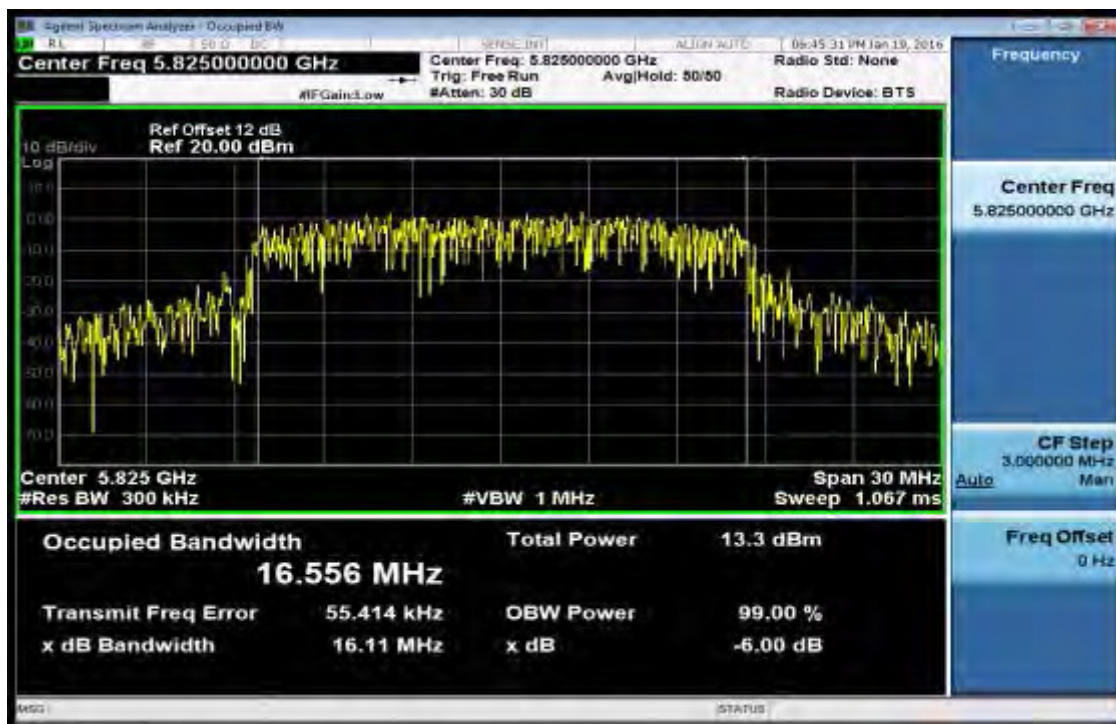
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## 6dB Band Width Test Data CH-High (5825 MHz)



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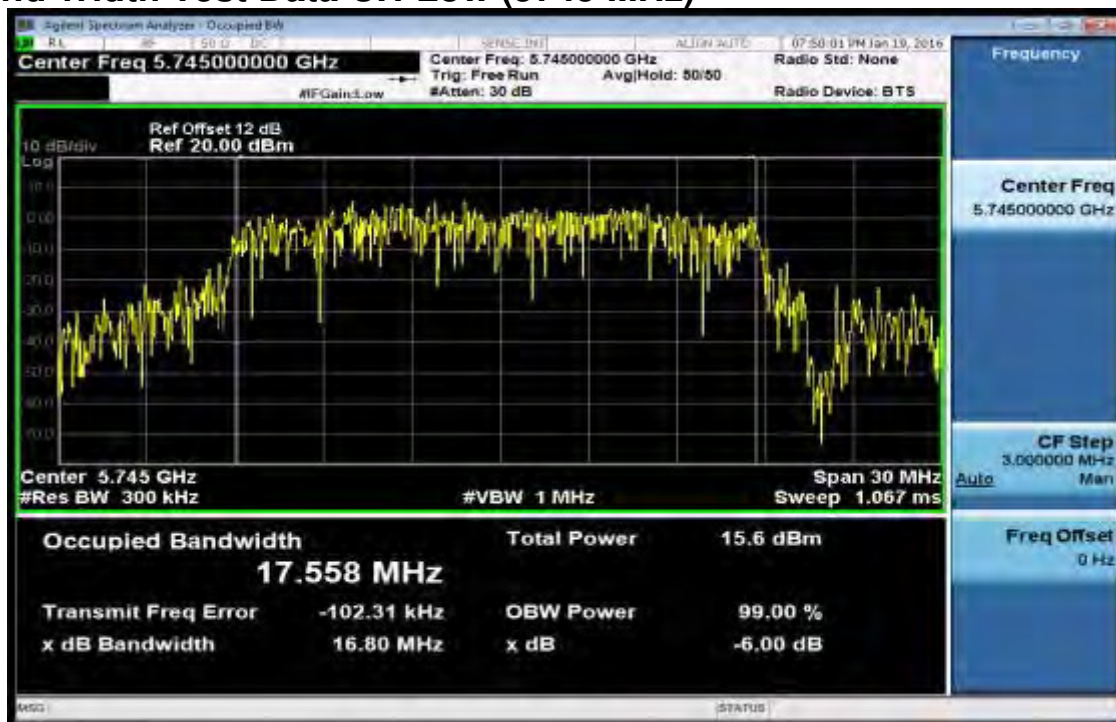
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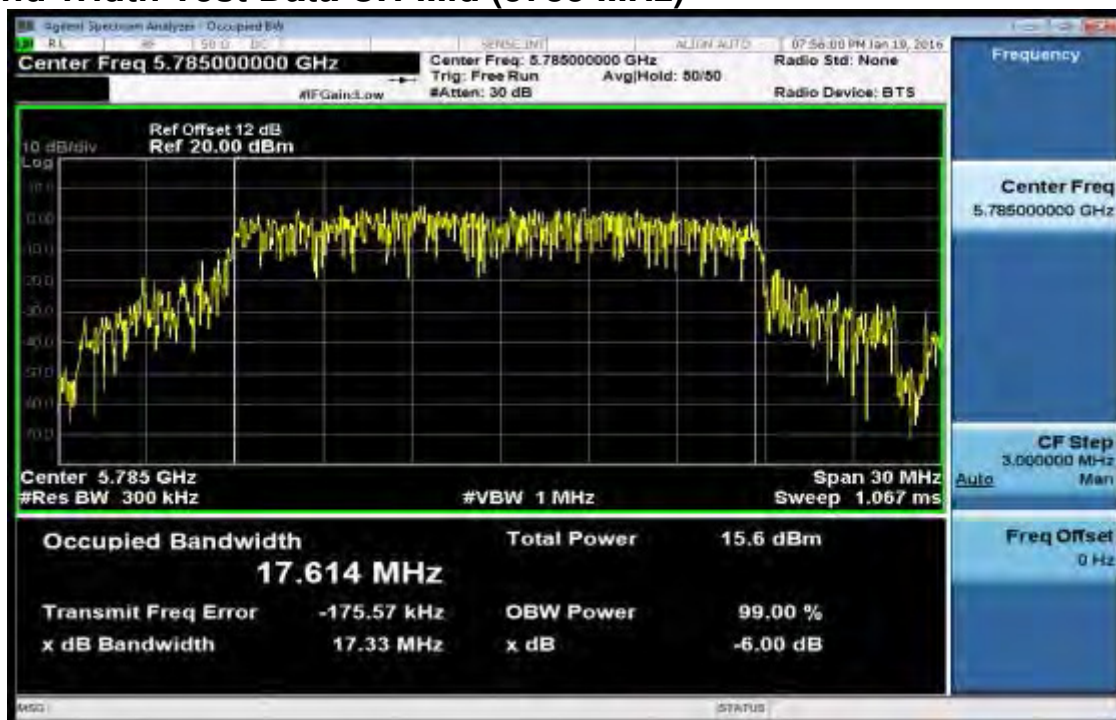
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## 802.11n\_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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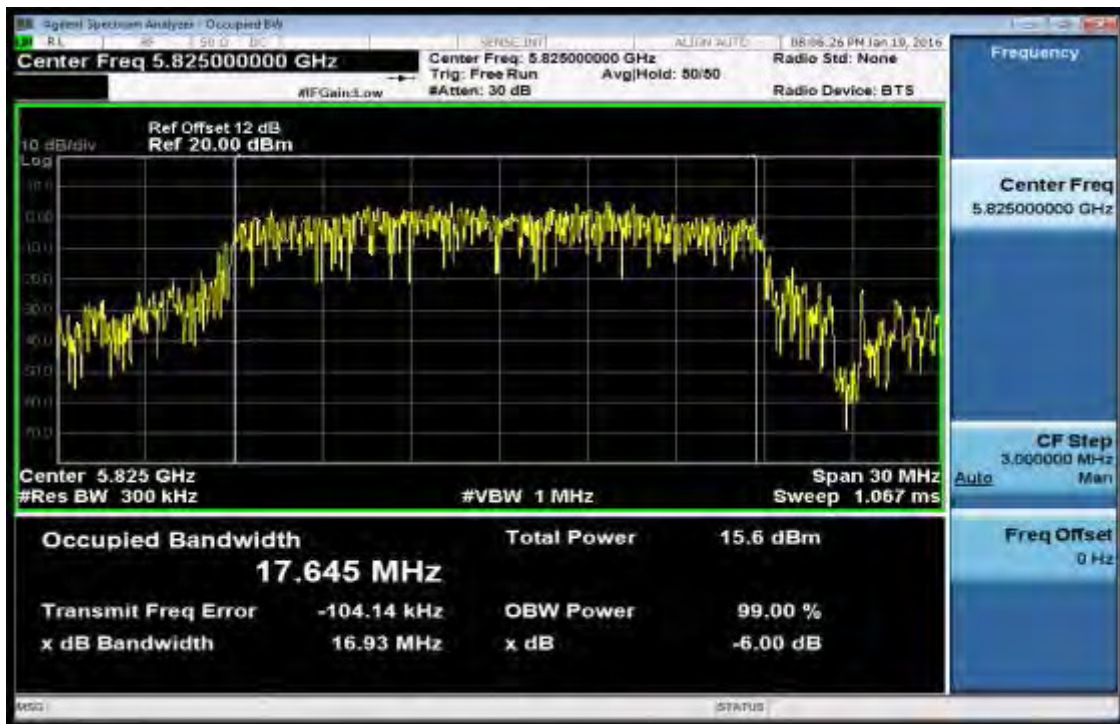
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## 6dB Band Width Test Data CH-High (5825 MHz)



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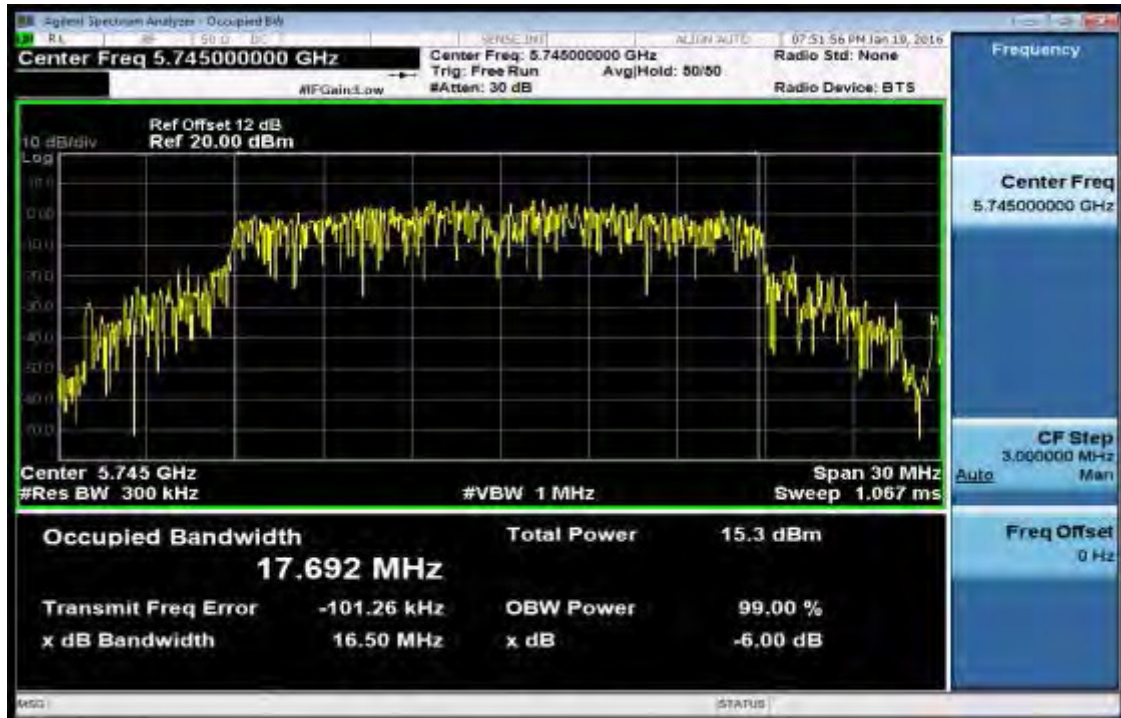
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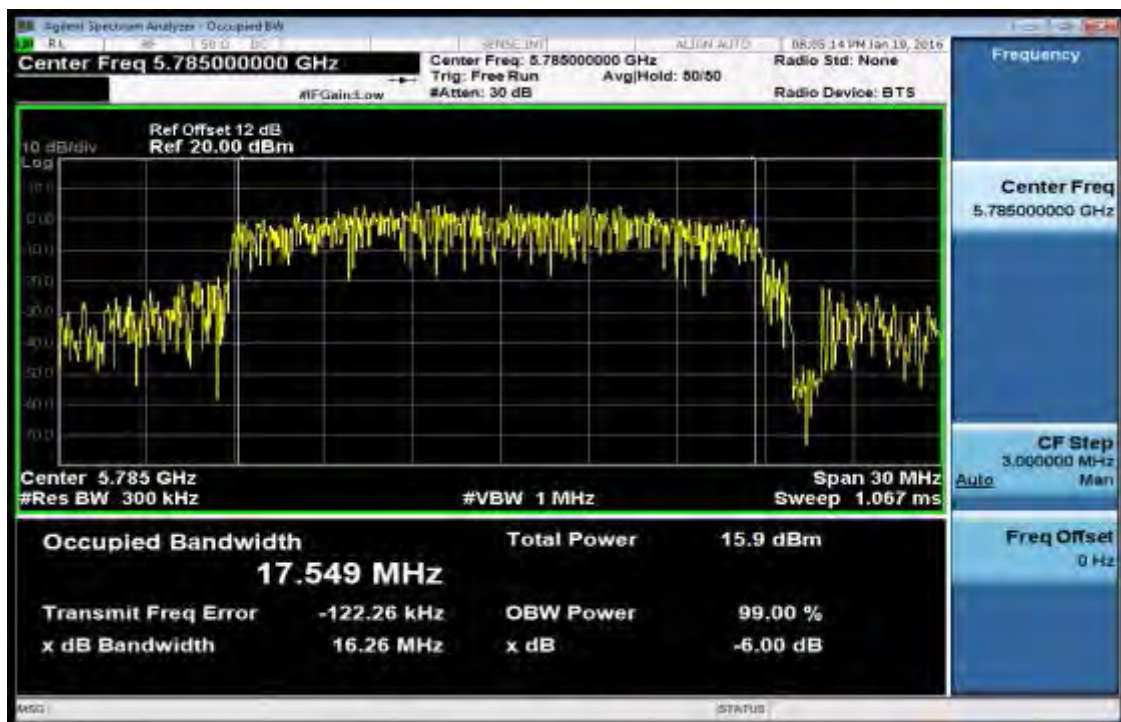
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## 802.11n\_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



## 6dB Band Width Test Data CH-Mid (5785 MHz)



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## 6dB Band Width Test Data CH-High (5825 MHz)



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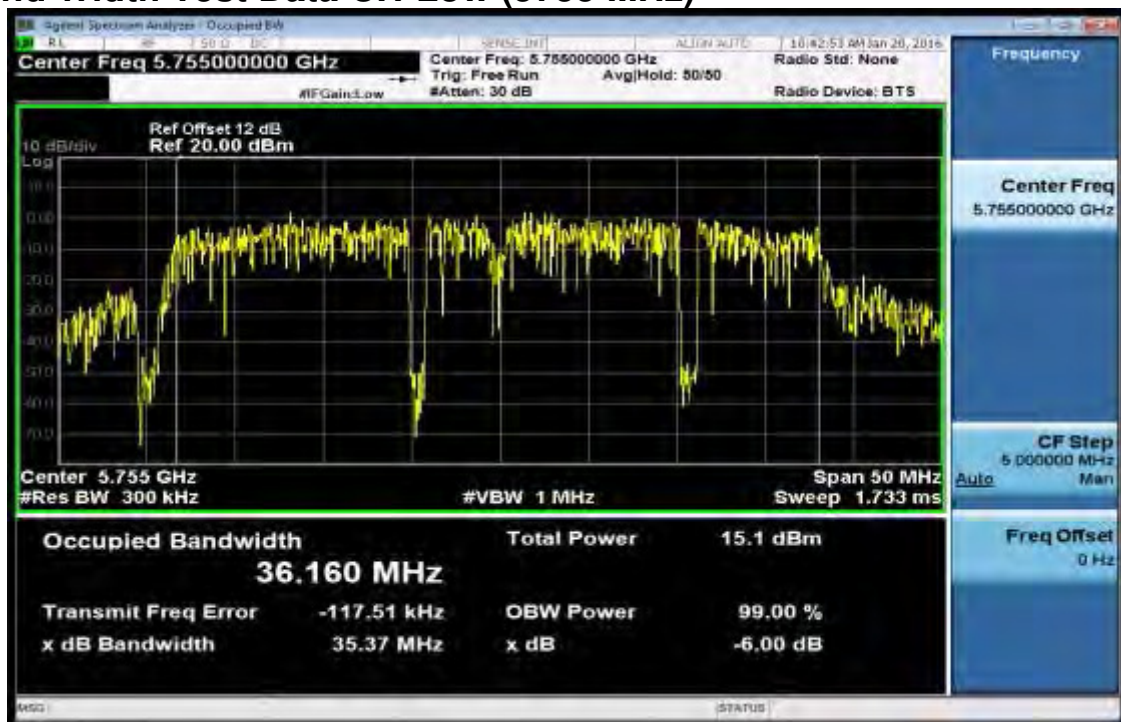
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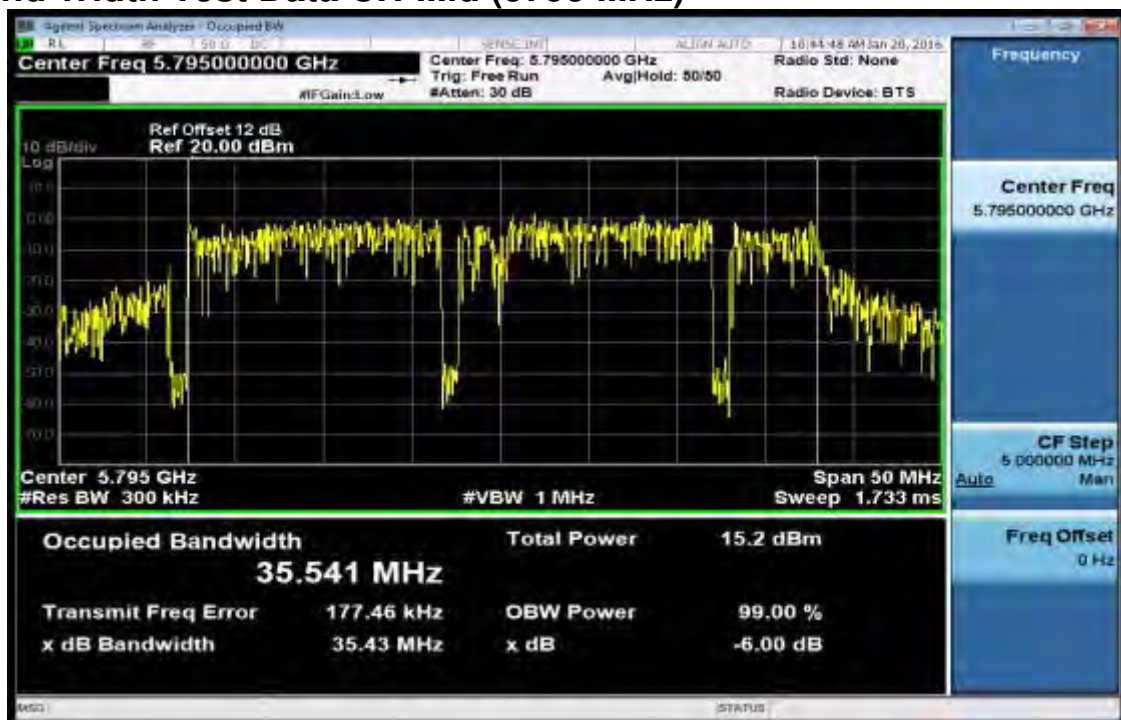
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## 802.11n\_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-Mid (5795 MHz)



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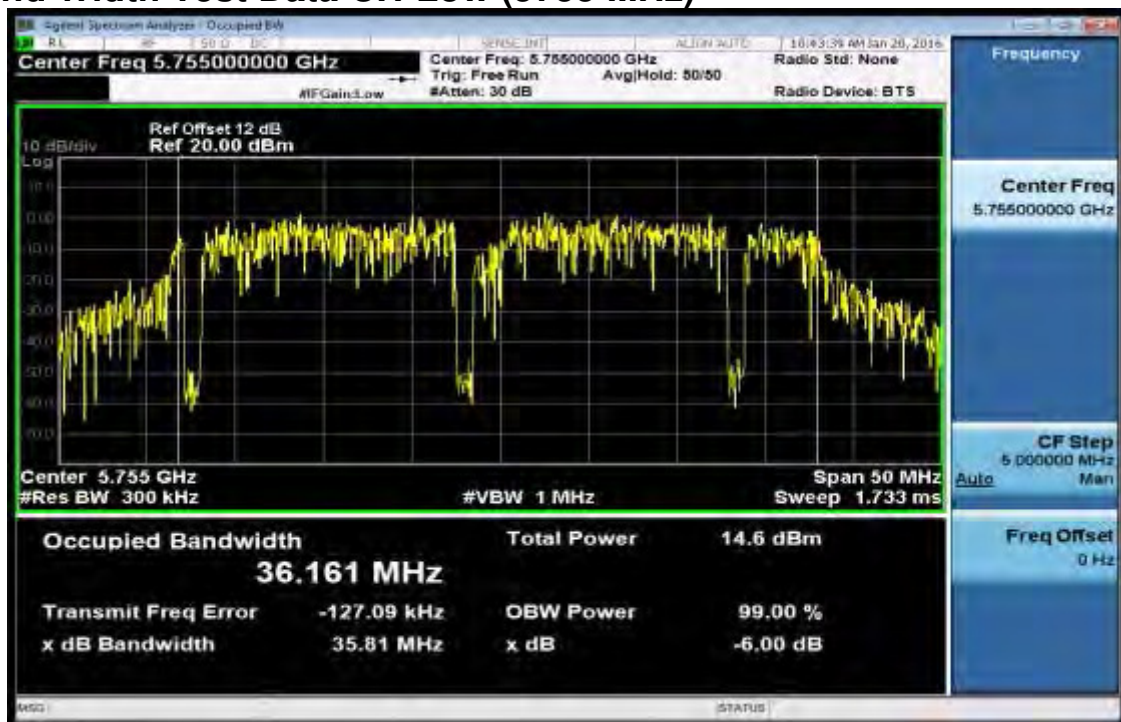
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## 802.11n\_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



## 6dB Band Width Test Data CH-Mid (5795 MHz)



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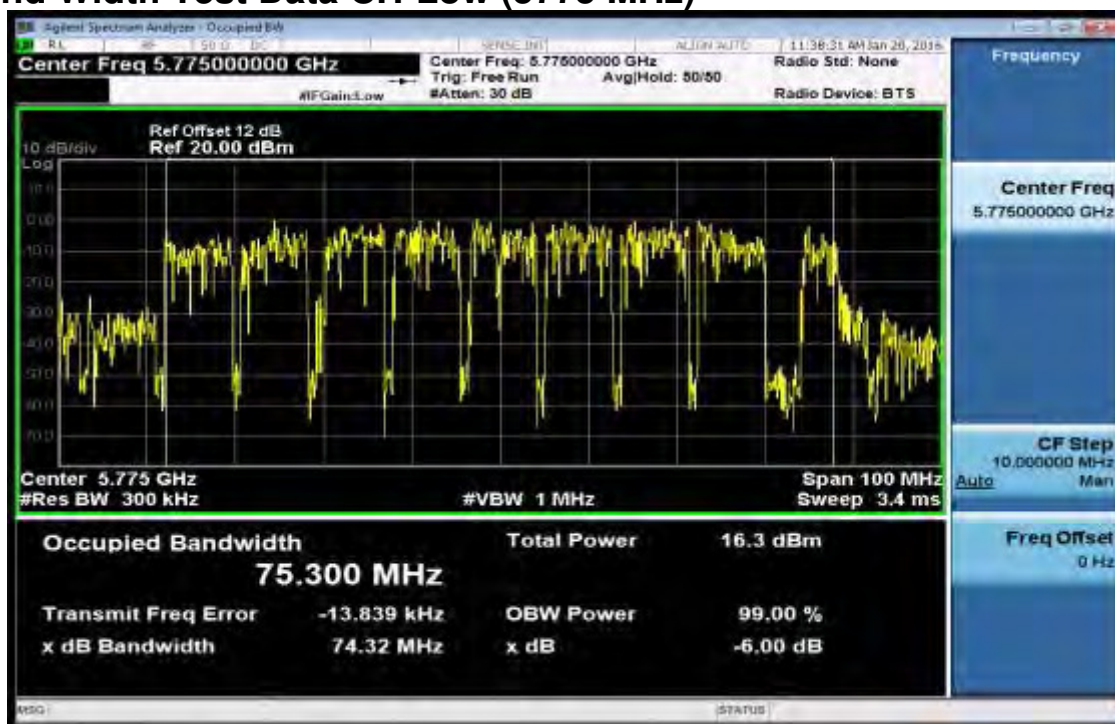
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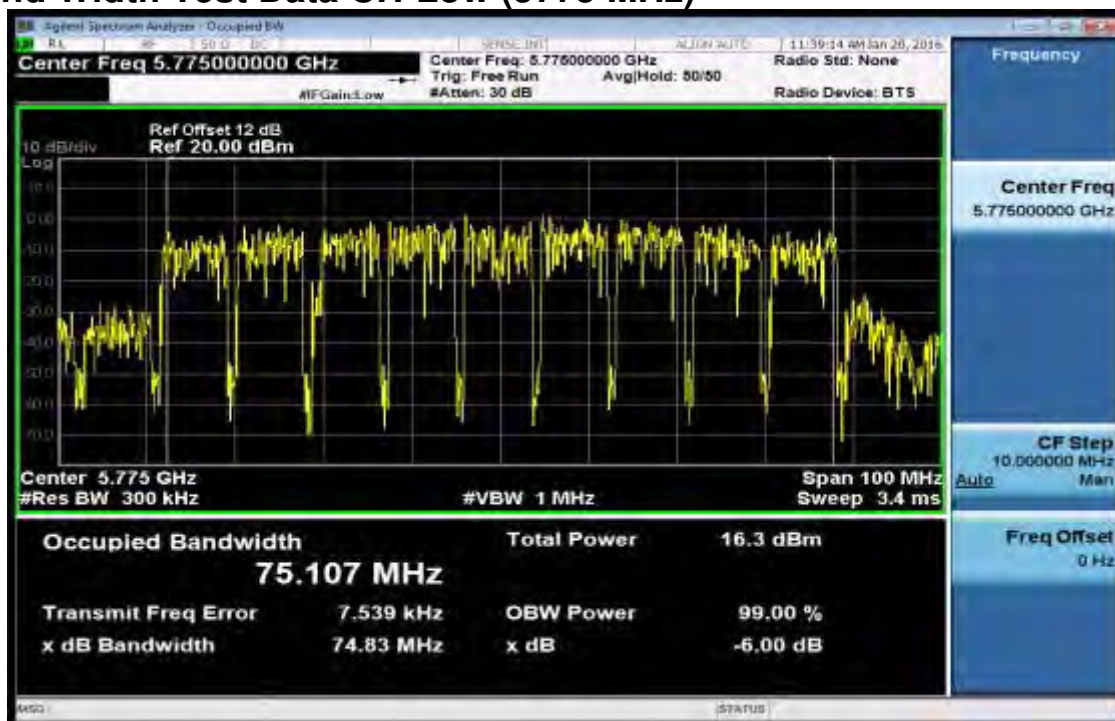
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## 802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



## 802.11ac VHT80, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5775 MHz)



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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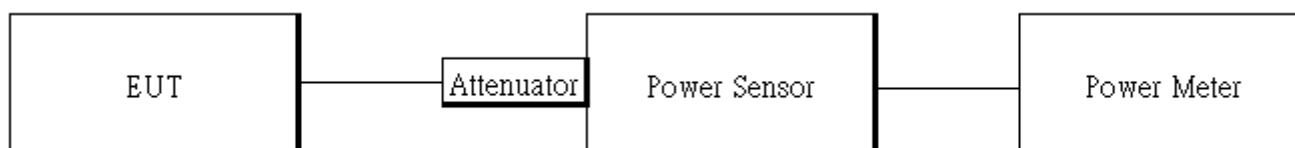
## 9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add  $10 \log(1/\text{duty cycle})$ .
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
- 7.

## 9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

## 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power (FCC)

#### 802.11a\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.41	21.928	23.98	PASS
44	5220	13.43	22.029	23.98	PASS
48	5240	13.44	22.080	23.98	PASS
52	5260	13.41	21.928	23.98 or $11+10\log(B) = 24.61$	PASS
60	5300	13.44	22.080	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	13.44	22.080	23.98 or $11+10\log(B) = 24.47$	PASS
100	5500	13.44	22.080	23.98 or $11+10\log(B) = 24.67$	PASS
116	5580	13.47	22.233	23.98 or $11+10\log(B) = 24.53$	PASS
140	5700	13.42	21.979	23.98 or $11+10\log(B) = 24.83$	PASS
149	5745	13.47	22.233	30	PASS
157	5785	13.45	22.131	30	PASS
165	5825	13.46	22.182	30	PASS

#### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	12.96	13.93	16.48	44.487	23.98	PASS
44	5220	13.16	13.77	16.49	44.525	23.98	PASS
48	5240	12.89	13.92	16.45	44.114	23.98	PASS
52	5260	13.13	13.77	16.47	44.382	23.98 or $11+10\log(B) = 24.48$	PASS
60	5300	13.33	13.61	16.48	44.489	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	13.31	13.63	16.48	44.496	23.98 or $11+10\log(B) = 24.67$	PASS
100	5500	13	13.82	16.44	44.052	23.98 or $11+10\log(B) = 24.47$	PASS
116	5580	13.35	13.48	16.43	43.912	23.98 or $11+10\log(B) = 24.53$	PASS
140	5700	13.44	13.49	16.48	44.416	23.98 or $11+10\log(B) = 24.67$	PASS
149	5745	13.26	13.57	16.43	43.935	30	PASS
157	5785	13.27	13.63	16.46	44.300	30	PASS
165	5825	12.93	13.95	16.48	44.465	30	PASS

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## 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	12.97	13.91	<b>16.48</b>	44.419	23.98	PASS
46	5230	13.15	13.68	16.43	43.988	23.98	PASS
54	5270	13.1	13.67	16.40	43.698	23.98 or $11+10\log(B) = 27.57$	PASS
62	5310	13.28	13.68	<b>16.49</b>	44.616	23.98 or $11+10\log(B) = 27.53$	PASS
102	5510	12.48	13.31	15.93	39.130	23.98 or $11+10\log(B) = 27.53$	PASS
110	5550	13.15	13.68	16.43	43.988	23.98 or $11+10\log(B) = 27.60$	PASS
134	5670	13.25	13.64	<b>16.46</b>	44.256	23.98 or $11+10\log(B) = 27.62$	PASS
151	5755	13.22	13.58	16.41	43.793	30	PASS
159	5795	13.25	13.68	<b>16.48</b>	44.469	30	PASS

## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	13.31	13.39	16.36	43.256	23.98	PASS
44	5220	13.43	13.43	<b>16.44</b>	44.059	23.98	PASS
48	5240	13.32	13.31	16.33	42.907	23.98	PASS
52	5260	13.35	13.31	16.34	43.056	23.98 or $11+10\log(B) = 24.48$	PASS
60	5300	13.43	13.42	<b>16.44</b>	44.008	23.98 or $11+10\log(B) = 24.61$	PASS
64	5320	13.37	13.41	16.40	43.655	23.98 or $11+10\log(B) = 24.67$	PASS
100	5500	13.34	13.32	16.34	43.056	23.98 or $11+10\log(B) = 24.47$	PASS
116	5580	13.3	13.43	16.38	43.409	23.98 or $11+10\log(B) = 24.53$	PASS
140	5700	13.44	13.32	<b>16.39</b>	43.558	23.98 or $11+10\log(B) = 24.67$	PASS
144(UNII-2C)	5720	12.26	12.14	15.21	33.205	23.98 or $11+10\log(B) = 22.26$	PASS
144(UNII-3)	5720	1.18	1.18	4.19	2.624	30	PASS
149	5745	13.31	13.4	16.37	43.307	30	PASS
157	5785	13.33	13.41	16.38	43.456	30	PASS
165	5825	13.41	13.43	<b>16.43</b>	43.957	30	PASS

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## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	13.41	13.32	16.38	43.406	23.98	PASS
46	5230	13.32	13.41	16.38	43.406	23.98	PASS
54	5270	13.38	13.4	16.40	43.655	23.98 or $11+10\log(B) = 27.57$	PASS
62	5310	12.41	12.43	15.43	34.917	23.98 or $11+10\log(B) = 27.53$	PASS
102	5510	12.88	12.74	15.82	38.202	23.98 or $11+10\log(B) = 27.53$	PASS
110	5550	13.37	13.35	16.37	43.354	23.98 or $11+10\log(B) = 27.60$	PASS
134	5670	13.42	13.34	16.39	43.556	23.98 or $11+10\log(B) = 27.62$	PASS
142(UNII-2C)	5710	12.72	12.85	15.80	37.982	23.98 or $11+10\log(B) = 26.89$	PASS
142(UNII-3)	5710	0.59	0.59	3.60	2.291	30	PASS
151	5755	13.31	13.35	16.34	43.056	30	PASS
159	5795	13.31	13.32	16.33	42.907	30	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
42	5210	12.96	13.89	16.46	44.260	23.98	PASS
58	5290	9.41	10.36	12.92	19.594	23.98 or $11+10\log(B) = 29.89$	PASS
106	5530	10.88	11.93	14.45	27.842	23.98 or $11+10\log(B) = 14.42$	FAIL
122	5610	13.12	13.66	16.41	43.739	23.98 or $11+10\log(B) = 30.25$	PASS
138(UNII-2C)	5690	12.99	13.43	16.23	41.936	23.98 or $11+10\log(B) = 29.89$	PASS
138(UNII-3)	5690	0.26	0.26	3.27	2.123	30	PASS
155	5775	13.11	13.78	16.47	44.343	30	PASS

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## Conducted output power (IC)

### 802.11a\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.41	21.928	23.98 or $11+10\log(B) = 23.18$	PASS
60	5300	<b>13.44</b>	22.080	23.98 or $11+10\log(B) = 23.15$	PASS
64	5320	<b>13.44</b>	22.080	23.98 or $11+10\log(B) = 23.16$	PASS
100	5500	13.44	22.080	23.98 or $11+10\log(B) = 23.14$	PASS
116	5580	<b>13.47</b>	22.233	23.98 or $11+10\log(B) = 23.17$	PASS
140	5700	13.42	21.979	23.98 or $11+10\log(B) = 23.17$	PASS
149	5745	<b>13.47</b>	22.233	30	PASS
157	5785	13.45	22.131	30	PASS
165	5825	<b>13.46</b>	22.182	30	PASS

### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
52	5260	13.13	13.77	16.47	44.382	23.98 or $11+10\log(B) = 23.46$	PASS
60	5300	13.33	13.61	16.48	44.489	23.98 or $11+10\log(B) = 23.35$	PASS
64	5320	13.31	13.63	<b>16.48</b>	44.496	23.98 or $11+10\log(B) = 23.47$	PASS
100	5500	13	13.82	16.44	44.052	23.98 or $11+10\log(B) = 23.43$	PASS
116	5580	13.35	13.48	16.43	43.912	23.98 or $11+10\log(B) = 23.45$	PASS
140	5700	13.44	13.49	<b>16.48</b>	44.416	23.98 or $11+10\log(B) = 23.47$	PASS
149	5745	13.26	13.57	16.43	43.935	30	PASS
157	5785	13.27	13.63	16.46	44.300	30	PASS
165	5825	12.93	13.95	<b>16.48</b>	44.465	30	PASS

### 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
54	5270	13.1	13.67	16.40	43.698	23.98 or $11+10\log(B) = 26.57$	PASS
62	5310	13.28	13.68	<b>16.49</b>	44.616	23.98 or $11+10\log(B) = 26.47$	PASS
102	5510	12.48	13.31	15.93	39.130	23.98 or $11+10\log(B) = 26.56$	PASS
110	5550	13.15	13.68	<b>16.43</b>	43.988	23.98 or $11+10\log(B) = 26.52$	PASS
134	5670	13.25	13.64	16.46	44.256	23.98 or $11+10\log(B) = 26.57$	PASS
151	5755	13.22	13.58	16.41	43.793	30	PASS
159	5795	13.25	13.68	<b>16.48</b>	44.469	30	PASS

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### 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
52	5260	13.35	13.31	16.34	43.056	23.98 or 11+10log(B) = 23.46	PASS
60	5300	13.43	13.42	<b>16.44</b>	44.008	23.98 or 11+10log(B) = 23.35	PASS
64	5320	13.37	13.41	16.40	43.655	23.98 or 11+10log(B) = 23.47	PASS
100	5500	13.34	13.32	16.34	43.056	23.98 or 11+10log(B) = 23.43	PASS
116	5580	13.3	13.43	16.38	43.409	23.98 or 11+10log(B) = 23.45	PASS
140	5700	13.44	13.32	<b>16.39</b>	43.558	23.98 or 11+10log(B) = 23.47	PASS
144(UNII-2C)	5720	12.26	12.14	15.21	33.205	23.98 or 11+10log(B) = 22.26	PASS
144(UNII-3)	5720	1.18	1.18	4.19	2.624	30	PASS
149	5745	13.31	13.4	16.37	43.307	30	PASS
157	5785	13.44	13.32	<b>16.39</b>	43.558	30	PASS
165	5825	13.31	13.4	16.37	43.307	30	PASS

### 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
54	5270	13.38	13.4	<b>16.40</b>	43.655	23.98 or 11+10log(B) = 26.57	PASS
62	5310	12.41	12.43	15.43	34.917	23.98 or 11+10log(B) = 26.47	PASS
102	5510	12.88	12.74	15.82	38.202	23.98 or 11+10log(B) = 26.56	PASS
110	5550	13.37	13.35	<b>16.37</b>	43.354	23.98 or 11+10log(B) = 26.52	PASS
134	5670	13.42	13.34	<b>16.39</b>	43.556	23.98 or 11+10log(B) = 26.57	PASS
142(UNII-)	5710	12.72	12.85	15.80	37.982	23.98 or 11+10log(B) = 26.89	PASS
142(UNII-3)	5710	0.59	0.59	3.60	2.291	30	PASS
151	5755	13.31	13.35	16.34	43.056	30	PASS
159	5795	13.31	13.32	16.33	42.907	30	PASS

### 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
58	5290	9.41	10.36	12.92	19.594	23.98 or 11+10log(B) = 29.49	PASS
106	5530	10.88	11.93	14.45	27.842	23.98 or 11+10log(B) = 17.54	PASS
122	5610	13.12	13.66	16.41	43.739	23.98 or 11+10log(B) = 29.69	PASS
138(UNII-)	5690	12.99	13.43	16.23	41.936	23.98 or 11+10log(B) = 29.74	PASS
138(UNII-3)	5690	0.26	0.26	3.27	2.123	23.98 or 11+10log(B) = 17.54	PASS
155	5775	13.11	13.78	16.47	44.343	30	PASS

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## EIRP

### 802.11a\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
36	5180	13.41	-0.120	13.290	23.01	or 10+10log(B)= 22.14	PASS
44	5220	13.43	-0.120	13.310	23.01	or 10+10log(B)= 22.15	PASS
48	5240	<b>13.44</b>	-0.120	<b>13.320</b>	23.01	or 10+10log(B)= 22.15	PASS
52	5260	13.41	0.680	14.090	30	or 17+10log(B)= 29.18	PASS
60	5300	<b>13.44</b>	0.680	<b>14.120</b>	30	or 17+10log(B)= 29.15	PASS
64	5320	<b>13.44</b>	0.680	<b>14.120</b>	30	or 17+10log(B)= 29.16	PASS
100	5500	<b>13.44</b>	0.530	13.970	30	or 17+10log(B)= 29.14	PASS
116	5580	<b>13.47</b>	0.530	<b>14.000</b>	30	or 17+10log(B)= 29.17	PASS
140	5700	13.42	0.530	13.950	30	or 17+10log(B)= 29.17	PASS

### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
36	5180	16.48	2.890	19.372	23.01	or 10+10log(B)= 22.46	PASS
44	5220	<b>16.49</b>	2.890	<b>19.376</b>	23.01	or 10+10log(B)= 22.46	PASS
48	5240	16.45	2.890	19.336	23.01	or 10+10log(B)= 22.45	PASS
52	5260	16.47	3.690	20.162	30	or 17+10log(B)= 29.46	PASS
60	5300	16.48	3.690	20.173	30	or 17+10log(B)= 29.35	PASS
64	5320	<b>16.48</b>	3.690	<b>20.173</b>	30	or 17+10log(B)= 29.47	PASS
100	5500	16.44	3.540	19.980	30	or 17+10log(B)= 29.43	PASS
116	5580	16.43	3.540	19.966	30	or 17+10log(B)= 29.45	PASS
140	5700	<b>16.48</b>	3.540	20.015	30	or 17+10log(B)= 29.43	PASS

### 802.11n\_HT40\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)		RESULT
38	5190	<b>16.48</b>	2.890	<b>19.366</b>	23.01	or 10+10log(B)= 25.57	PASS
46	5230	16.43	2.890	19.323	23.01	or 10+10log(B)= 25.56	PASS
54	5270	16.40	3.690	20.095	30	or 17+10log(B)= 32.57	PASS
62	5310	<b>16.49</b>	3.690	<b>20.185</b>	30	or 17+10log(B)= 32.47	PASS
102	5510	15.93	3.540	19.465	30	or 17+10log(B)= 32.56	PASS
110	5550	16.43	3.540	19.973	30	or 17+10log(B)= 32.52	PASS
134	5670	<b>16.46</b>	3.540	<b>20.000</b>	30	or 17+10log(B)= 32.57	PASS

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## 802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.36	2.890	19.250	23.01 or $10+10\log(B)=22.46$	PASS
44	5220	<b>16.44</b>	2.890	<b>19.330</b>	23.01 or $10+10\log(B)=22.46$	PASS
48	5240	16.33	2.890	19.215	23.01 or $10+10\log(B)=22.45$	PASS
52	5260	16.34	3.690	20.030	30 or $17+10\log(B)=29.46$	PASS
60	5300	<b>16.44</b>	3.690	<b>20.125</b>	30 or $17+10\log(B)=29.35$	PASS
64	5320	16.40	3.690	20.090	30 or $17+10\log(B)=29.47$	PASS
100	5500	16.34	3.540	19.880	30 or $17+10\log(B)=29.43$	PASS
116	5580	16.38	3.540	19.916	30 or $17+10\log(B)=29.45$	PASS
140	5700	<b>16.39</b>	3.540	<b>19.931</b>	30 or $17+10\log(B)=29.43$	PASS
144(UNII-2C)	5720	15.21	3.540	18.752	30 or $17+11\log(B)=22.26$	PASS
144(UNII-3)	5720	4.19	3.540	7.729	30	PASS

## 802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
38	5190	<b>16.38</b>	2.890	<b>19.266</b>	23.01 or $10+10\log(B)=25.57$	PASS
46	5230	<b>16.38</b>	2.890	<b>19.266</b>	23.01 or $10+10\log(B)=25.56$	PASS
54	5270	<b>16.40</b>	3.690	<b>20.090</b>	30 or $17+10\log(B)=32.57$	PASS
62	5310	15.43	3.690	19.120	30 or $17+10\log(B)=32.47$	PASS
102	5510	15.82	3.540	19.361	30 or $17+10\log(B)=32.56$	PASS
110	5550	16.37	3.540	19.910	30 or $17+10\log(B)=32.52$	PASS
134	5670	<b>16.39</b>	3.540	<b>19.930</b>	30 or $17+10\log(B)=32.56$	PASS
142(UNII-2C)	5710	15.80	3.540	19.336	30 or $17+10\log(B)=26.89$	PASS
142(UNII-3)	5710	3.60	3.540	7.140	30	PASS

## 802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED LIMIT (dBm)	RESULT
42	5210	<b>16.46</b>	2.890	19.350	23.01 or $10+10\log(B)=28.69$	PASS
58	5290	<b>12.92</b>	3.690	16.611	30.00 or $17+10\log(B)=35.49$	PASS
106	5530	<b>14.45</b>	3.540	17.987	30 or $17+10\log(B)=23.54$	PASS
122	5610	16.41	3.540	19.949	30 or $17+10\log(B)=35.69$	PASS
138(UNII-2C)	5690	16.23	3.540	19.766	30 or $17+10\log(B)=35.49$	PASS
138(UNII-3)	5690	3.27	3.540	6.810	30	PASS

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## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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## 10.2 Measurement Procedure

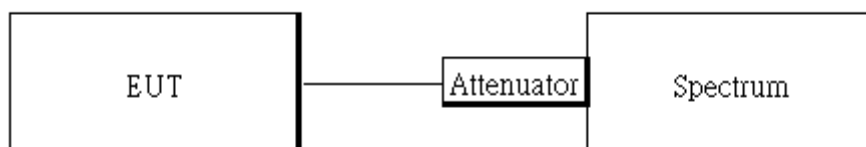
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=500 kHz, VBW $\geq$  3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

## 10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

## 10.4 Test Set-up



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.90	17	-15.10
5220	1.37	17	-15.63
5240	0.95	17	-16.05
5260	1.09	11	-9.91
5300	1.01	11	-9.99
5320	1.42	11	-9.58
5500	2.13	11	-8.87
5580	2.28	11	-8.72
5700	2.70	11	-8.30
5745	7.57	30	-22.43
5785	8.28	30	-21.72
5825	6.76	30	-23.24

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	6.58	17	-10.42
5220	6.63	17	-10.37
5240	5.97	17	-11.03
5260	6.68	11	-4.32
5300	5.58	11	-5.42
5320	5.96	11	-5.04
5500	6.00	11	-5.00
5580	3.77	11	-7.23
5700	6.83	11	-4.17
5745	11.86	30	-18.14
5785	11.89	30	-18.11
5825	12.60	30	-17.40

POWER DENSITY 802.11ac VHT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5720 (UNII-2C)	-0.65	11	-11.65
5720 (UNII-3)	-5.14	30	-35.14

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POWER DENSITY 802.11n HT40 MODE			
Frequency	PPSD	Limit	Margin
5190	2.68	17	-14.32
5230	2.01	17	-14.99
5270	1.16	11	-9.84
5310	2.03	11	-8.97
5510	1.18	11	-9.82
5550	3.35	11	-7.65
5670	1.99	11	-9.01
5755	9.76	30	-20.24
5795	9.29	30	-20.71

POWER DENSITY 802.11ac VHT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5710 (UNII-2C)	-4.24	11	-15.24
5710 (UNII-3)	-6.20	30	-36.20

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-0.47	17	-17.47
5290	-5.33	11	-16.33
5530	-2.69	11	-13.69
5610	-0.54	11	-11.54
5690(UNII-	-7.92	11	-18.92
5690(UNII-3)	-15.15	11	-26.15
5775	7.56	30	-22.44

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EIRP spectral density 802.11a MODE					
Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	1.90	-0.12	1.78	10	-8.10
5220	1.37	-0.12	1.25	10	-8.63
5240	0.95	-0.12	0.83	10	-9.05

EIRP spectral density 802.11n HT20 MODE					
Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5180	6.58	2.89	9.47	10	-3.42
5220	6.63	2.89	9.52	10	-3.37
5240	5.97	2.89	8.86	10	-4.03

EIRP spectral density 802.11n HT40 MODE					
Frequency	PPSD	Antenna	EIRP spectral	Limit	Margin
5180	2.68	2.89	5.57	10	-7.32
5220	2.01	2.89	4.90	10	-7.99

EIRP spectral density 802.11ac VHT80 MODE					
Frequency (MHz)	PPSD (dBm)	Antenna Gain (dBi)	EIRP spectral density(dBm)	Limit (dBm)	Margin (dB)
5210	-0.47	2.89	2.42	10	-10.47

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## 802.11a 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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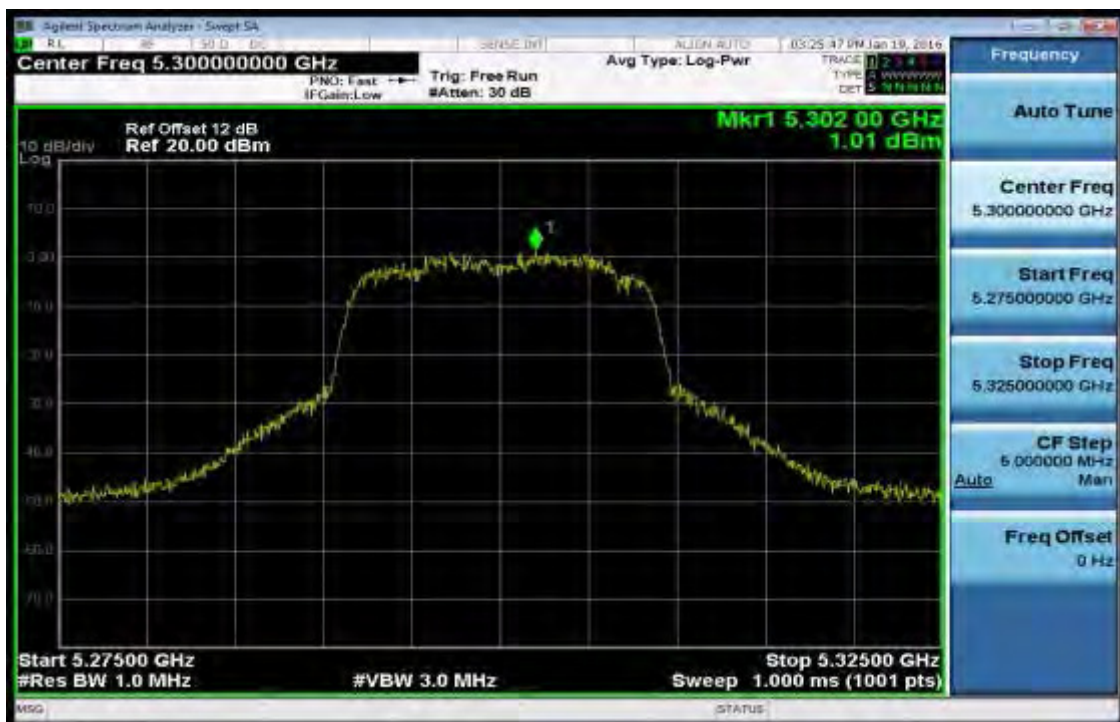


## 802.11a 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Low 5260 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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## 802.11a 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5580 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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## 802.11a 5725~5850 MHz

### Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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## 802.11n HT20, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5220 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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## 802.11n HT20, 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Low 5260MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5300 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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## 802.11n HT20, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5580MHz)



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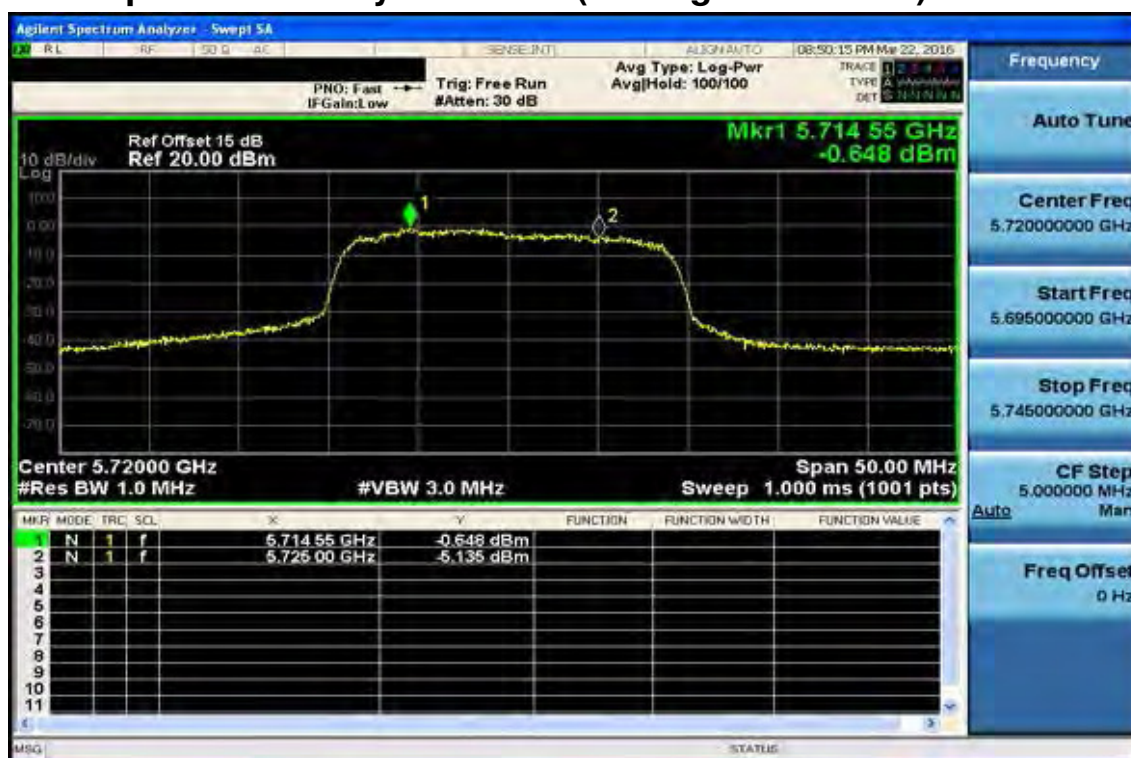
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## Peak Power Spectral Density Data Plot (CH High 5700 MHz)



## 802.11ac VHT20, 5470~5725 MHz

## Peak Power Spectral Density Data Plot (CH High 5720 MHz)



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## 802.11n HT20, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



## Peak Power Spectral Density Data Plot (CH Mid 5785 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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## 802.11n HT40, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



### Peak Power Spectral Density Data Plot (CH High 5230 MHz)



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## 802.11n HT40, 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



### Peak Power Spectral Density Data Plot (CH High 5310 MHz)



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## 802.11n HT40, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



### Peak Power Spectral Density Data Plot (CH Mid 5550 MHz)



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## Peak Power Spectral Density Data Plot (CH High 5670 MHz)



## 802.11ac VHT40, 5470~5725 MHz

## Peak Power Spectral Density Data Plot (CH High 5710 MHz)



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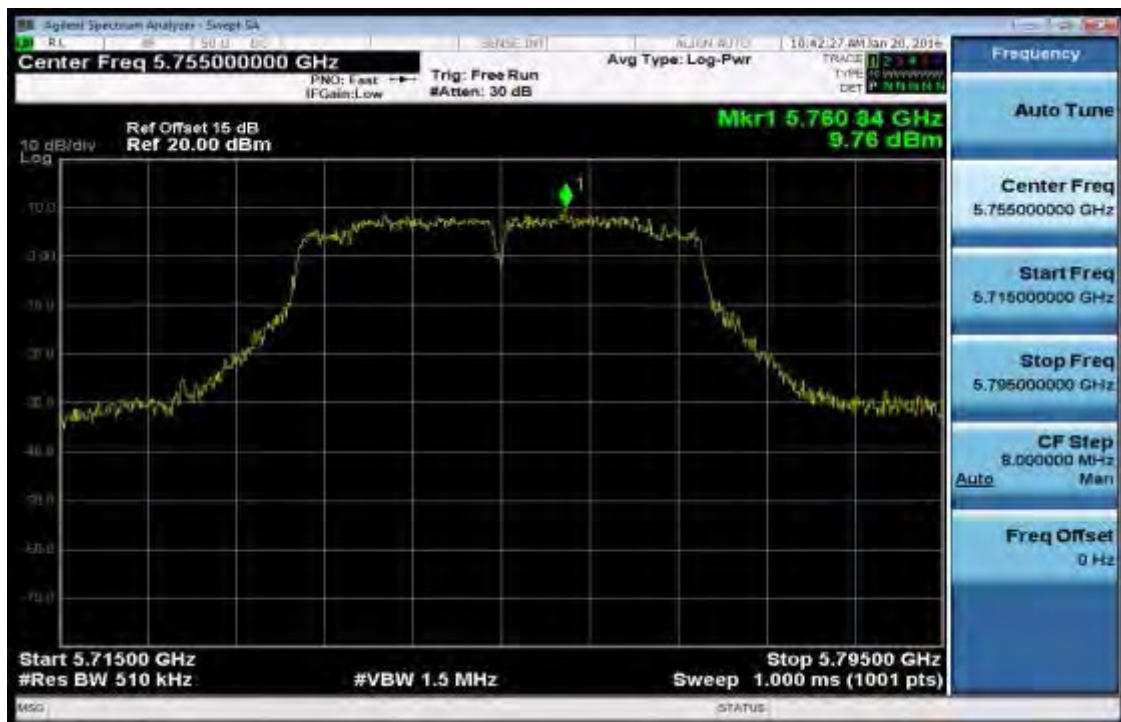
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## 802.11n HT40, 5725~5850 MHz

### Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



### Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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## 802.11ac VHT80, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH ,Mid 5210 MHz)



## 802.11ac VHT80, 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)



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## 802.11ac VHT80, 5470~5725 MHz

### Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



### Peak Power Spectral Density Data Plot (CH Low 5610 MHz)



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## Peak Power Spectral Density Data Plot (CH Low 5690 MHz)



## 802.11ac VHT80, 5725~5850 MHz

## Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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