

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	HUAWEI MateBook
Brand Name:	HUAWEI
Model No.:	PL-W29, PL-W09, PL-W19
Model Difference:	For Marketing Purpose
FCC ID:	QISPL-WX9
IC:	6369A-PLWX9
Report No.:	E2/2017/10035
Issue Date:	Feb. 21, 2017
FCC Rule Part:	§15.407
IC Rule Part	RSS-247 issue 1 May 2015
Prepared for FCC:	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China
Prepared for IC:	Huawei Technologies Co., Ltd. Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129 China (Peoples Republic Of)
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant for FCC: Huawei Technologies Co., Ltd.
Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, China
Huawei Technologies Co., Ltd.

Applicant for IC: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129 China (Peoples Republic Of)

Product Name: HUAWEI MateBook

Brand Name: HUAWEI

Model No.: PL-W29, PL-W09, PL-W19

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FCC ID: QISPL-WX9

IC : 6369A-PLWX9

File Number: E2/2017/10035

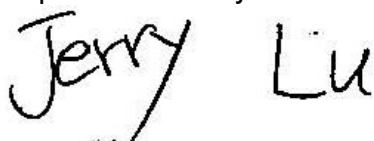
Date of Test: Jan. 12, 2017 ~ Feb. 14, 2017

Date of EUT Received: Jan. 12, 2017

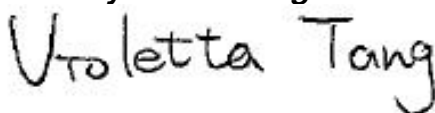
We hereby certify that:

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.

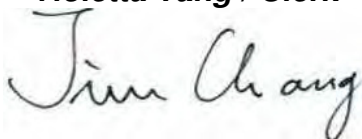
The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Feb. 21, 2017

Jerry Lu / Sr. Engineer**Prepared By:****Date:**

Feb. 21, 2017

Violetta Tang / Clerk**Approved By:****Date:**

Feb. 21, 2017

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2017/10035	Rev.00	Initial creation of document	Feb. 21, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	HUAWEI MateBook	
Brand Name:	HUAWEI	
Model No.:	PL-W29, PL-W09, PL-W19	
Model Difference:	For Marketing Purpose	
Product SW/HW version:	PAIKU052 / C2A	
Radio SW/HW version:	19.0 / 8265	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	11.4Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: HB46K497ECW; Supplier: HUAWEI
	Adapter:	Model No.: HW-19034YYYY (Y=0-9,A-Z or blank); Supplier: HUAWEI

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) (SISO) / EIRP (MIMO)	Modulation Technology	Type of Emission
11a	5150~5250	4	17.94dBm / 21.78dBm	OFDM	16M9D1D
	5250~5350	4	17.93dBm / 20.59dBm		16M9D1D
	5470~5725	12	16.47dBm / 18.11dBm		16M8D1D
	5725-5850	5	16.48dBm		16M2D1D
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 17.92dBm / 21.79dBm (Worst Case)	OFDM	17M8D1D
	HT / VHT20 5250~5350	4	HT: 17.94dBm / 20.61dBm (Worst Case)		17M8D1D
	HT / VHT20 5470~5725	11	HT: 16.48dBm / 18.11dBm (Worst Case)		17M8D1D
	HT / VHT20 5725-5850	5	HT: 16.45dBm (Worst Case)		17M3D1D
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 17.95dBm / 21.84dBm (Worst Case)	OFDM	36M2D1D
	HT / VHT40 5250~5350	2	HT: 17.84dBm / 20.56dBm (Worst Case)		36M4D1D
	HT / VHT40 5470~5725	5	HT: 16.46dBm / 18.12dBm (Worst Case)		36M2D1D
	HT / VHT40 5725-5850	2	HT: 16.48dBm (Worst Case)		35M6D1D
11ac_80M	VHT80 5150~5250	1	17.91dBm / 21.64dBm	OFDM	75M4D1D
	VHT80 5250~5350	1	14.39dBm / 17.03dBm		75M2D1D
	VHT80 5470~5725	2	16.48dBm / 18.09dBm		75M6D1D
	VHT80 5725-5850	1	16.46dBm		75M6D1D
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_20 / ac_20MHz: 6.5 – 144.4Mbps 802.11 n_40 / ac_40MHz: 13.5 – 300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps		

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Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	WNC	Main	81EAA515.G77	5150~5250	0.92
				5250~5350	-1.24
				5470~5725	-2.91
				5725~5850	-1.73
		Aux	81EAA515.G77	5150~5250	-1.38
				5250~5350	-0.26
				5470~5725	0.94
				5725~5850	0.06

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

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1.2 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 issue 4 Nov. 2014

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 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 30MHz. 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 plan. 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.

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) / cable loss 5dB, and 10dB attenuator (MIMO).

SISO mode offset = RF cable loss (dB) + attenuation factor(dB) = 12(dB)

MIMO mode offset = RF cable loss (dB) + attenuation factor(dB) = 15(dB)

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2.5 Configuration of Tested System

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

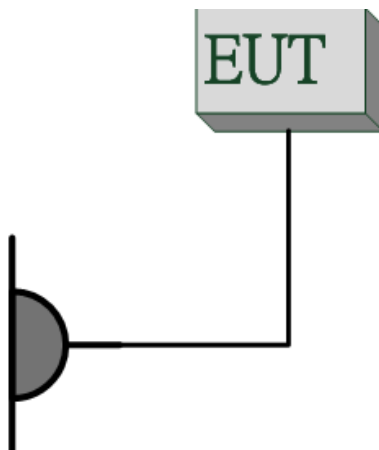


Fig. 2-2 Conducted (Antenna Port) Emission

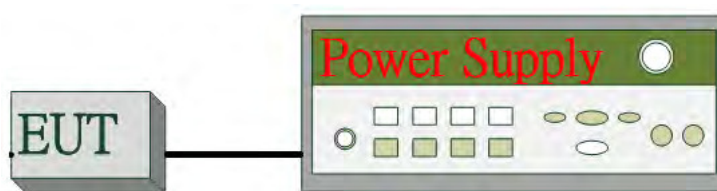


Table 2-1 Equipment Used in Tested System

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	HOLA	DP-3003	D7070035	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: (FCC)

11 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		

5 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		

2 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

Operated band in 5470 MHz ~5725 MHz: (IC)

8 channels are provided for 802.11a, 802.11n_HT20, 802.11ac_VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	134	5670 MHz
110	5550 MHz		

1 channels are provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz		

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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.

Note: Pre-scanned was done on Antenna Main and Antenna Aux. Antenna Main results higher emission at 5150~5250MHz, and Antenna Aux results higher emission at 5250~5825MHz. Therefore, the completed set of measurement was done on Antenna Main / Aux to be presented on this test report.

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
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	AUX
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	AUX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	AUX
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	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	AUX
802.11ac_VHT80	5290	58	58	OFDM	MCS0	AUX

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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	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0	AUX
802.11ac_VHT80(FCC)	5530~5610	106 to 122	106,122	OFDM	MCS0	AUX
802.11ac_VHT80(IC)	5530~5530	106	106	OFDM	MCS0	AUX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	AUX
802.11n_HT20				OFDM	MCS0	AUX
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	AUX
802.11ac_VHT80	5775	155	155	OFDM	MCS0	AUX

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.

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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	SISO / MIMO
802.11n_HT20				OFDM	MCS0 / 8	SISO / MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0 / 8	SISO / MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0 / 8	SISO / MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	SISO / MIMO
802.11n_HT20				OFDM	MCS0 / 8	SISO / MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0 / 8	SISO / MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS0 / 8	SISO / MIMO
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	SISO / MIMO
802.11n_HT20				OFDM	MCS0 / 8	SISO / MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0 / 8	SISO / MIMO
802.11ac_VHT80 (FCC)	5530~5610	106 to 122	106,122	OFDM	MCS0 / 8	SISO / MIMO
802.11ac_VHT80 (IC)	5530~5530	106	106	OFDM	MCS0 / 8	SISO / MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	SISO / MIMO
802.11n_HT20				OFDM	MCS0 / 8	SISO / MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0 / 8	SISO / MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0 / 8	SISO / MIMO

Remark: Until further notice, this device will not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of Environment Canada's weather radars operating in this band.

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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 : Vertical)	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 : Horizontal)	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	12/12/2016	12/11/2017
Coaxial Cables	N/A	N30N30-1042- 150cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
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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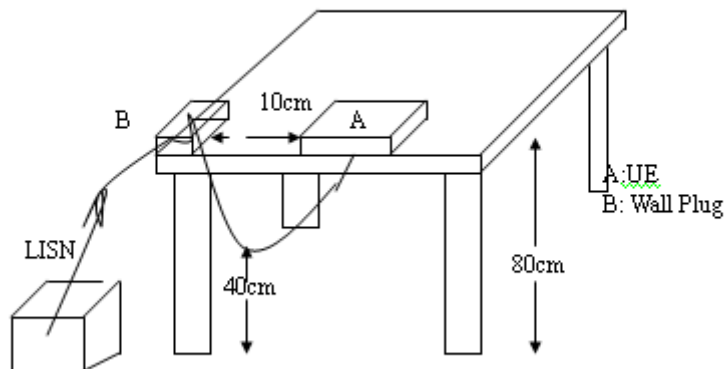
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6.4. Test SET-UP



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. 23, 2017
Temperature:	23		

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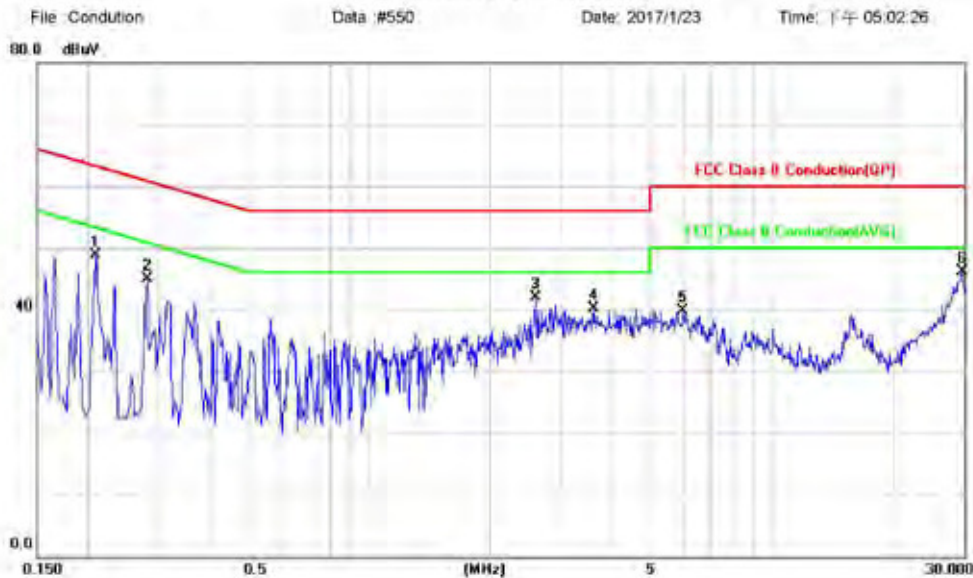
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Site : Conduction Room Phase: **N** Temperature: 23 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 65 %
Mode: 連續
Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
1		0.2100	29.03	19.73	48.76	63.21	-14.45	peak	
2		0.2820	25.05	19.77	44.82	60.76	-15.94	peak	
3		2.6020	22.01	19.95	41.96	56.00	-14.04	peak	
4		3.6220	20.17	19.96	40.13	56.00	-15.87	peak	
5		6.0300	19.66	20.01	39.67	60.00	-20.33	peak	
6 *		29.8340	25.13	21.00	46.13	60.00	-13.87	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) = $10 \cdot \log (1/\text{Duty Cycle})$
802.11a	94.72	0.24
802.11n_20	95.49	0.20
802.11n_40	84.34	0.74
802.11ac_80	84.14	0.75

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9472) = 0.24$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.9549) = 0.2$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8434) = 0.74$$

$$\text{Duty Cycle Factor: } 10 \cdot \log(1/0.8414) = 0.75$$

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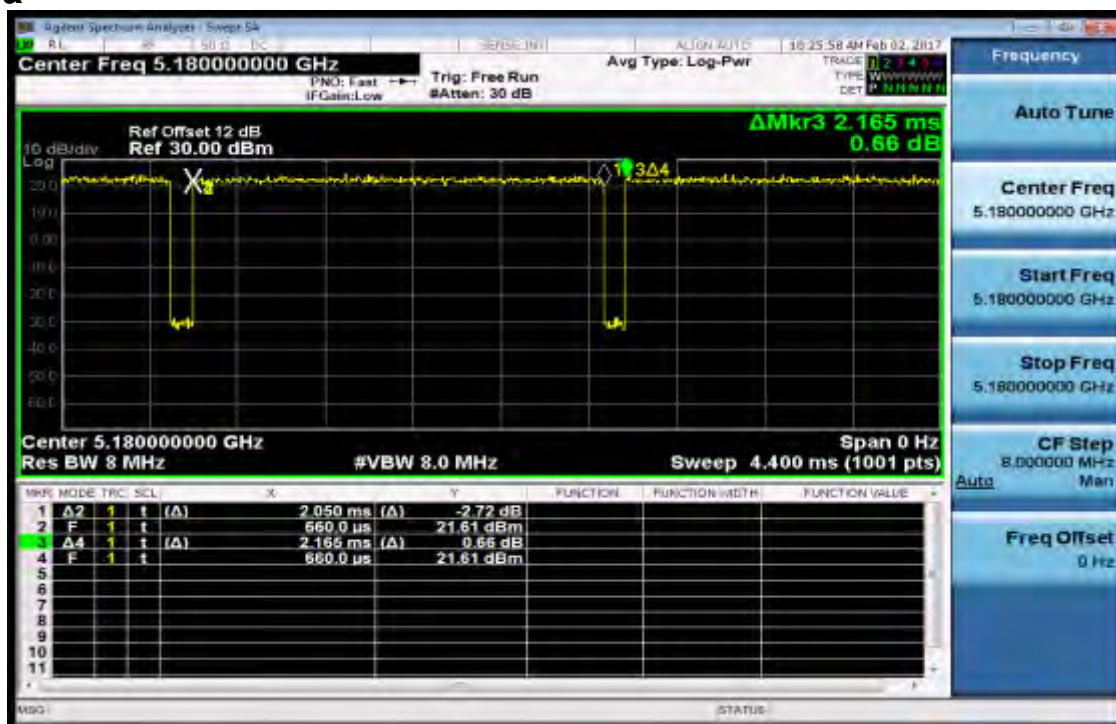
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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802.11n HT 40



802.11 ac VHT 80



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8. 26dB & 6dB & 99% 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.
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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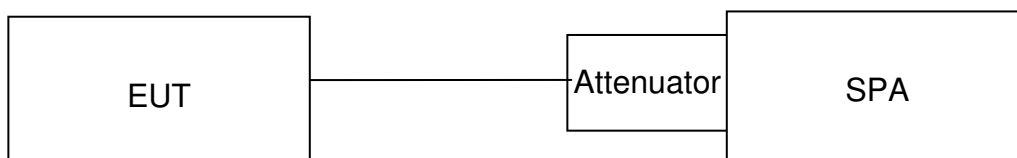
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	25.63	14.087
5220	25.04	13.986
5240	23.83	13.771
5260	24.42	13.877
5300	24.64	13.916
5320	24.10	13.820
5500	23.20	13.655
5580	23.46	13.703
5700	23.43	13.698

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	26.59	14.247
5220	25.29	14.029
5240	25.37	14.043
5260	25.62	14.086
5300	25.09	13.995
5320	25.77	14.111
5500	22.78	13.576
5580	24.22	13.842
5700	22.61	13.543

802.11n_HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	46.59	16.683
5230	46.21	16.647
5270	42.27	16.260
5310	44.72	16.505
5510	45.11	16.543
5550	45.25	16.556
5670	45.47	16.577

802.11ac_VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	92.78	19.675
5290	82.63	19.171
5530	84.25	19.256
5610	86.73	19.382

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802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.30	14.669
5220	29.84	14.748
5240	29.52	14.701
5260	29.85	14.749
5300	29.38	14.681
5320	29.52	14.701
5500	29.69	14.726
5580	29.92	14.760
5700	23.53	13.716

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	29.67	14.723
5220	30.00	14.771
5240	29.73	14.732
5260	29.99	14.770
5300	29.39	14.682
5320	29.83	14.747
5500	23.73	13.753
5580	28.95	14.616
5700	22.19	13.462

802.11n_HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	47.47	16.764
5230	46.31	16.657
5270	48.25	16.835
5310	47.51	16.768
5510	49.61	16.956
5550	48.56	16.863
5670	49.74	16.967

802.11ac_VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	88.80	19.484
5290	83.36	19.210
5530	86.44	19.367
5610	96.10	19.827

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.336	12.131
5220	16.597	12.200
5240	16.397	12.148
5260	16.454	12.163
5300	16.628	12.208
5320	16.357	12.137
5500	16.259	12.111
5580	16.559	12.190
5700	16.434	12.157

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.672	12.473
5220	17.648	12.467
5240	17.744	12.491
5260	17.627	12.462
5300	17.652	12.468
5320	17.670	12.472
5500	17.685	12.476
5580	17.605	12.456
5700	17.718	12.484

802.11n_HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.236	15.591
5230	36.066	15.571
5270	36.354	15.606
5310	36.246	15.593
5510	36.225	15.590
5550	36.086	15.573
5670	36.122	15.578

802.11ac_VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.440	18.776
5290	74.669	18.731
5530	75.616	18.786

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802.11a_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.567	12.192
5220	16.703	12.228
5240	16.865	12.270
5260	16.642	12.212
5300	16.931	12.287
5320	16.565	12.192
5500	16.827	12.260
5580	16.536	12.184
5700	16.527	12.182

802.11n_HT20_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.774	12.498
5220	17.684	12.476
5240	17.765	12.496
5260	17.644	12.466
5300	17.774	12.498
5320	17.731	12.487
5500	17.584	12.451
5580	17.785	12.501
5700	17.629	12.462

802.11n_HT40_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.056	15.570
5230	35.995	15.562
5270	36.242	15.592
5310	36.308	15.600
5510	36.124	15.578
5550	35.731	15.530
5670	35.954	15.557

802.11ac_VHT80_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.361	18.771
5290	75.163	18.760
5530	75.068	18.755

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	11.99	10.788
5785	15.10	11.790
5825	14.50	11.614

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	11.89	10.752
5785	12.63	11.014
5825	13.51	11.307

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	30.10	14.786
5795	33.88	15.299

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.56	18.607

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.44	11.886
5785	15.05	11.775
5825	15.11	11.793

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.09	11.489
5785	14.65	11.658
5825	13.87	11.421

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.13	15.457
5795	33.83	15.293

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	62.68	17.971

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

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.76	11.976
5785	16.16	12.084
5825	14.03	11.471

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.94	12.289
5785	17.26	12.370
5825	17.23	12.363

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.15	15.334
5795	33.69	15.275

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.62	18.786

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.06	12.057
5785	16.00	12.041
5825	16.00	12.041

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.69	12.225
5785	17.13	12.338
5825	14.99	11.758

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.56	15.510
5795	31.86	15.032

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	64.32	18.083

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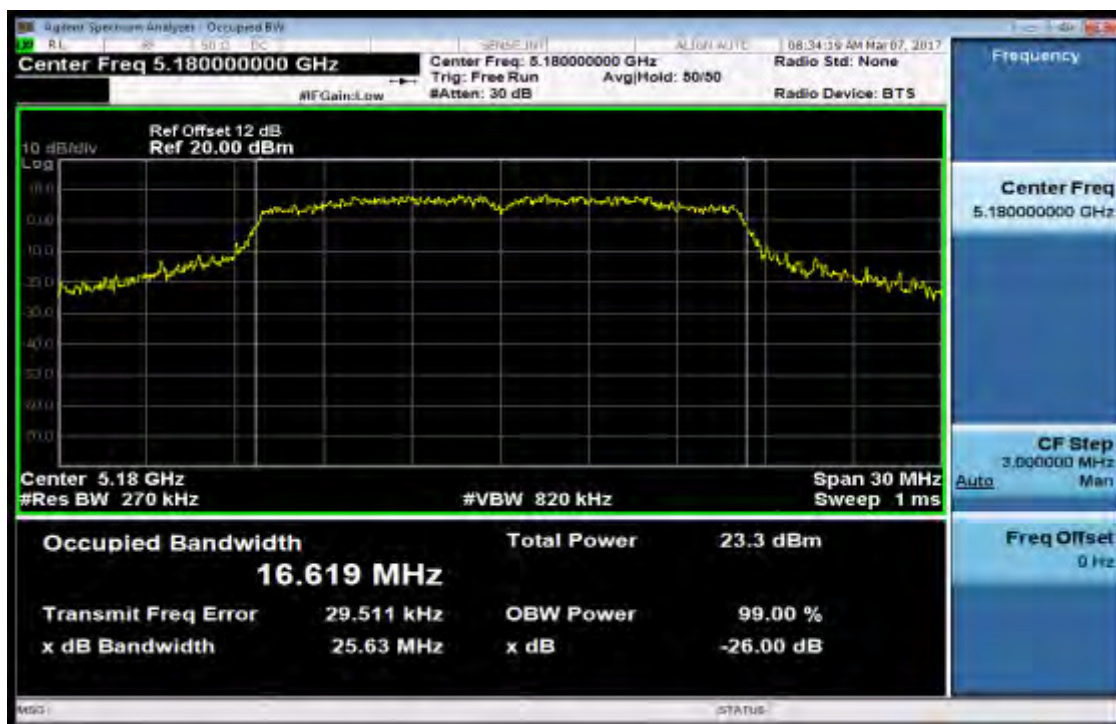
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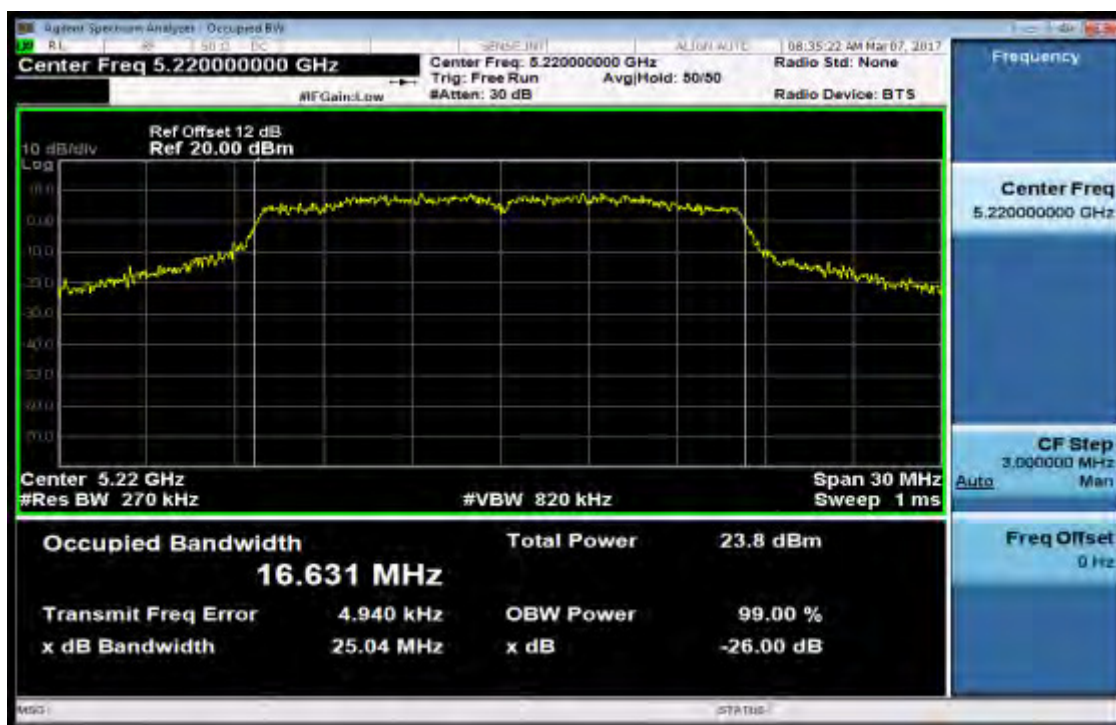
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802.11a, 5150~5250 MHz (MAIN) 26dB Band Width Test Data CH-Low (5180MHz)



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



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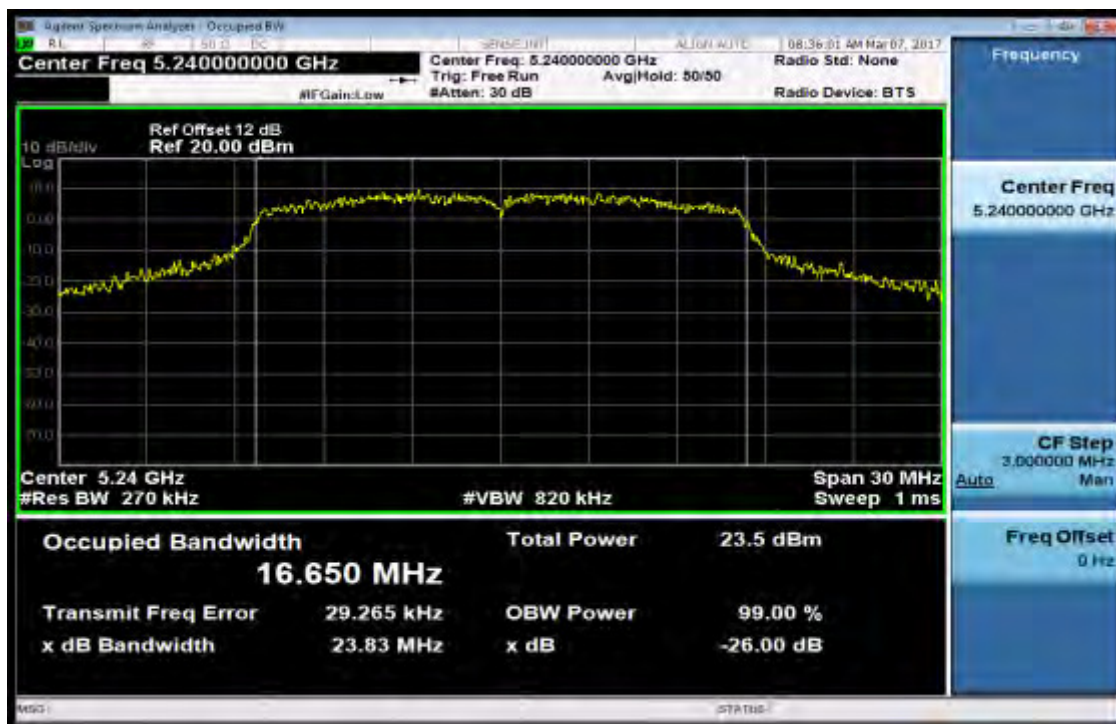
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26dB Band Width Test Data CH-High (5240MHz)



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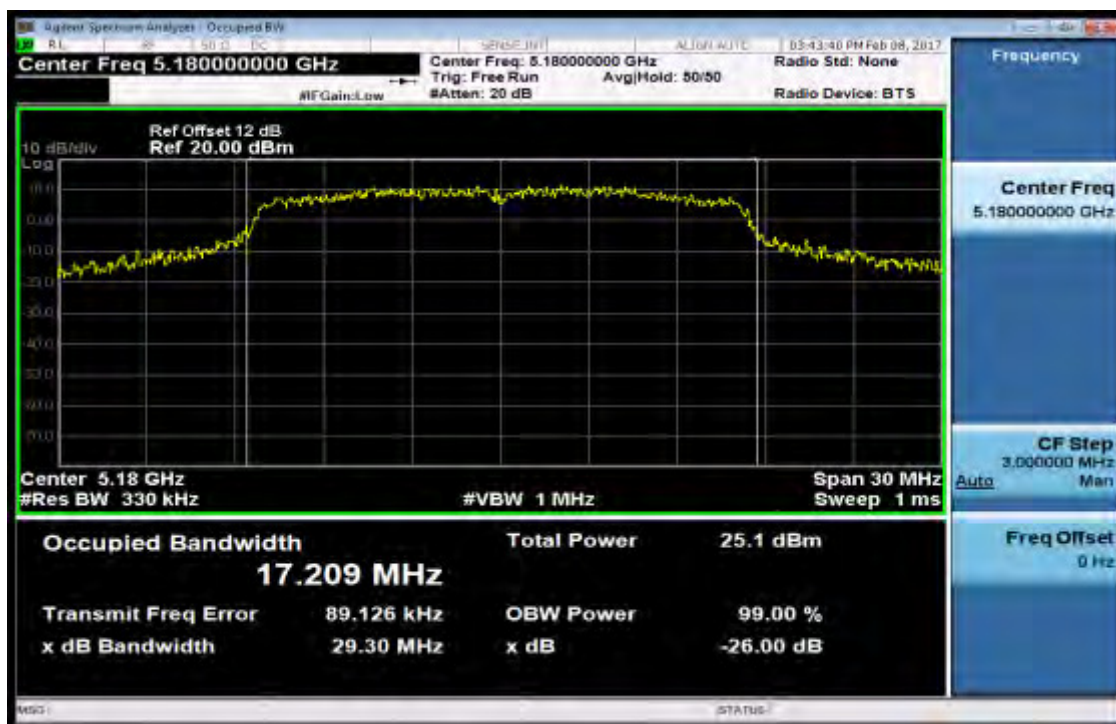
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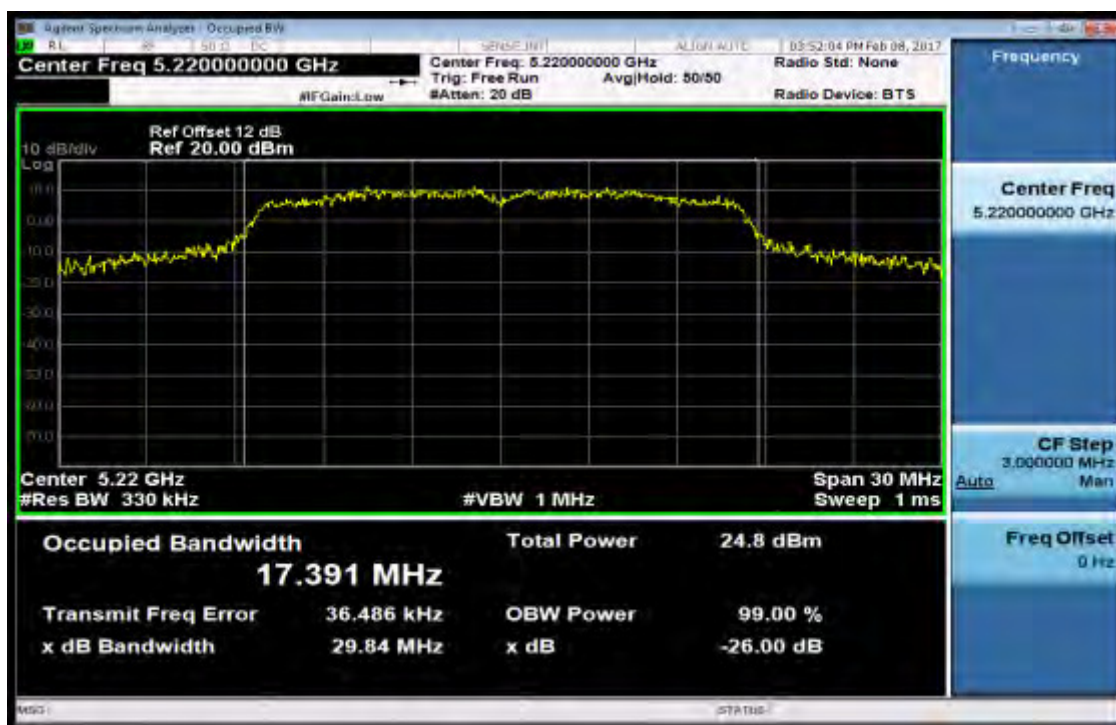
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802.11a, 5150~5250 MHz (AUX1) 26dB Band Width Test Data CH-Low (5180MHz)



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



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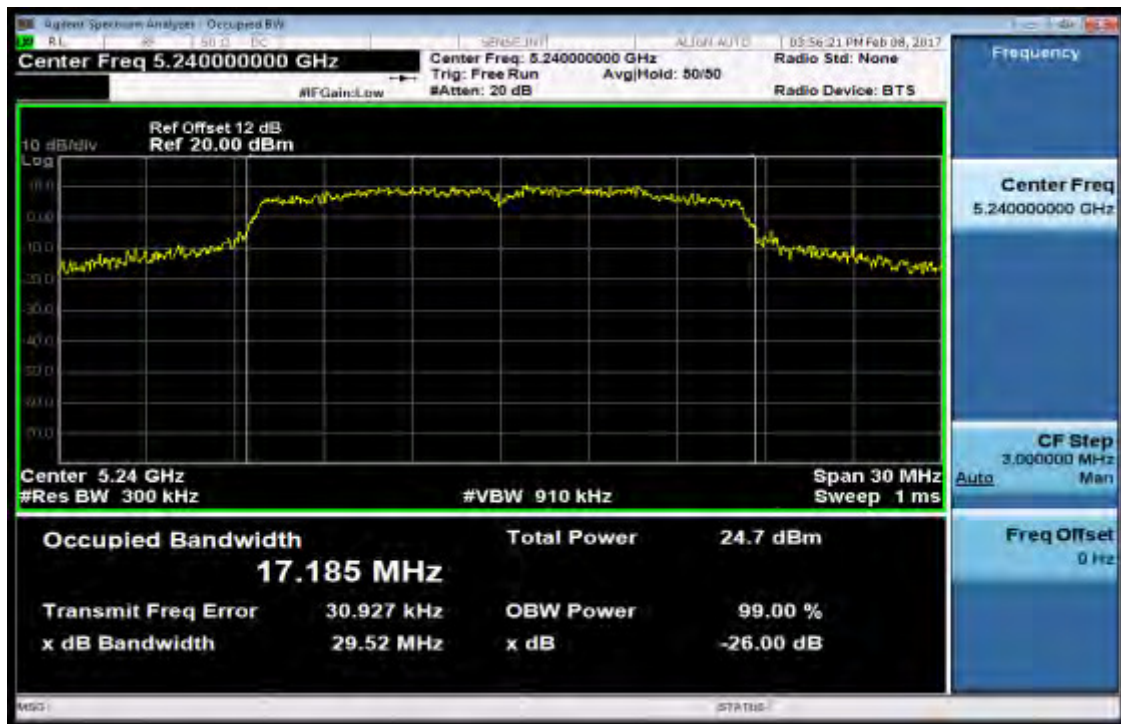
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26dB Band Width Test Data CH-High (5240MHz)



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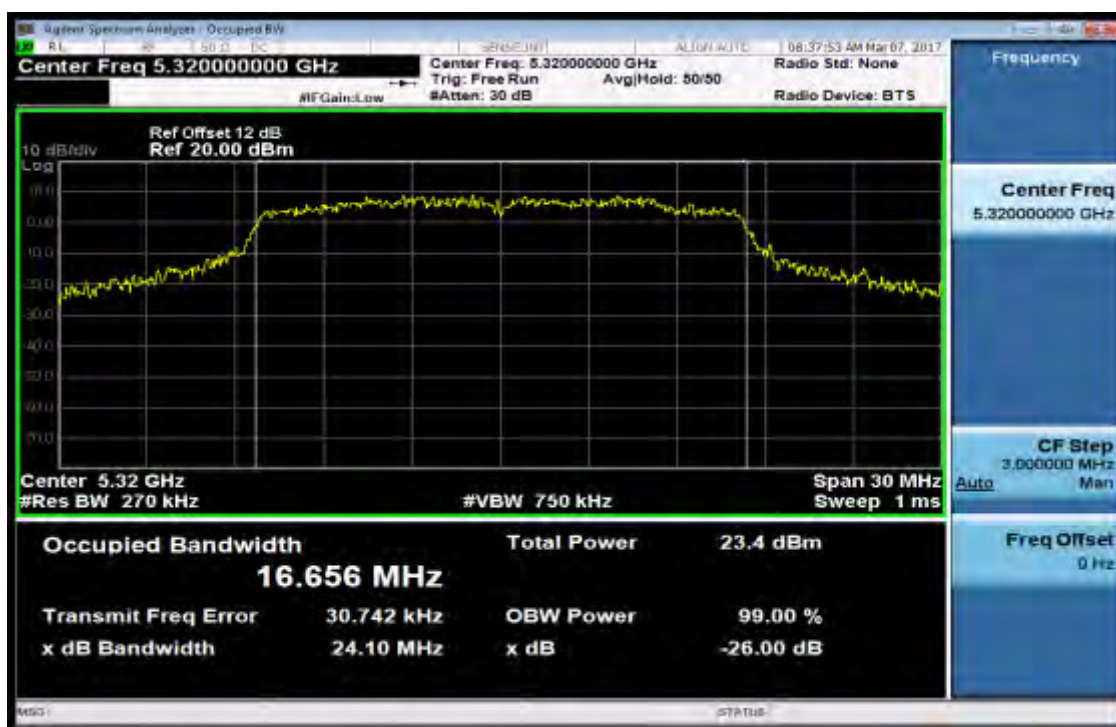
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26dB Band Width Test Data CH-High (5320MHz)



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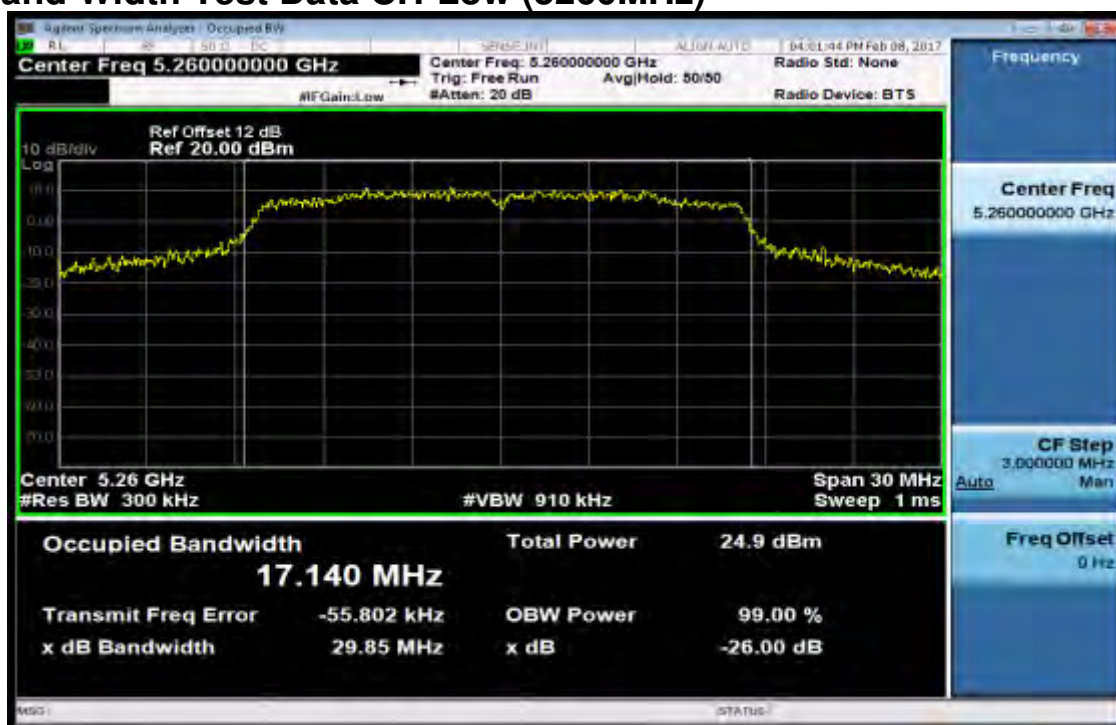
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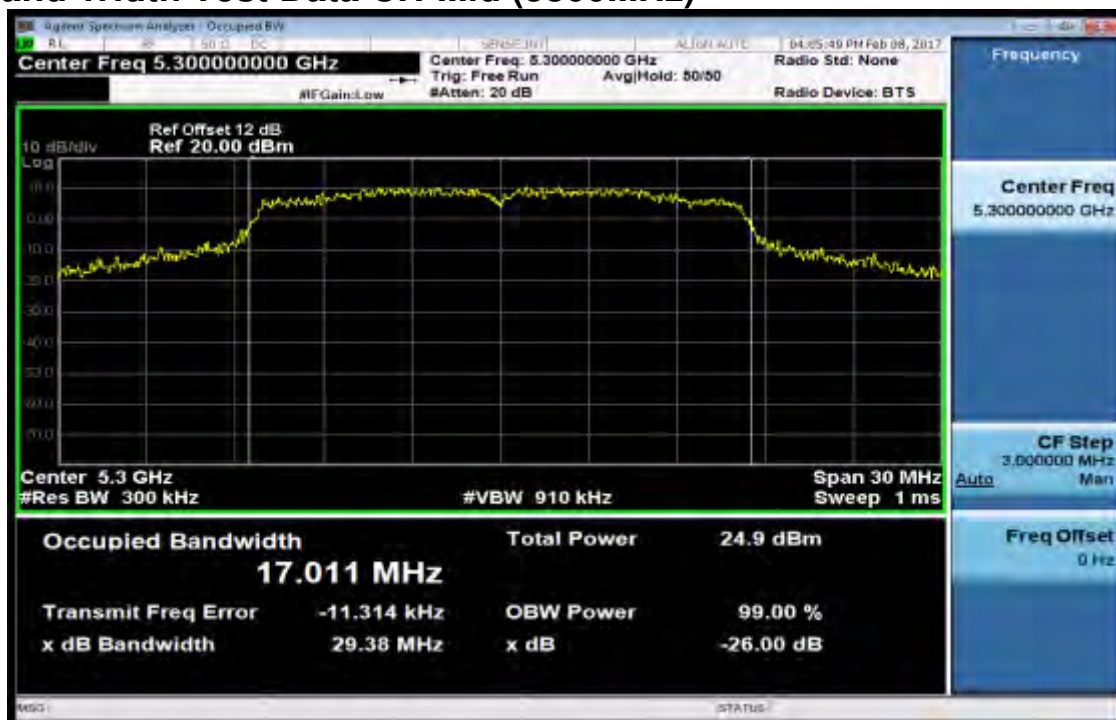
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802.11a, 5250~5350 MHz (AUX1) 26dB Band Width Test Data CH-Low (5260MHz)



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



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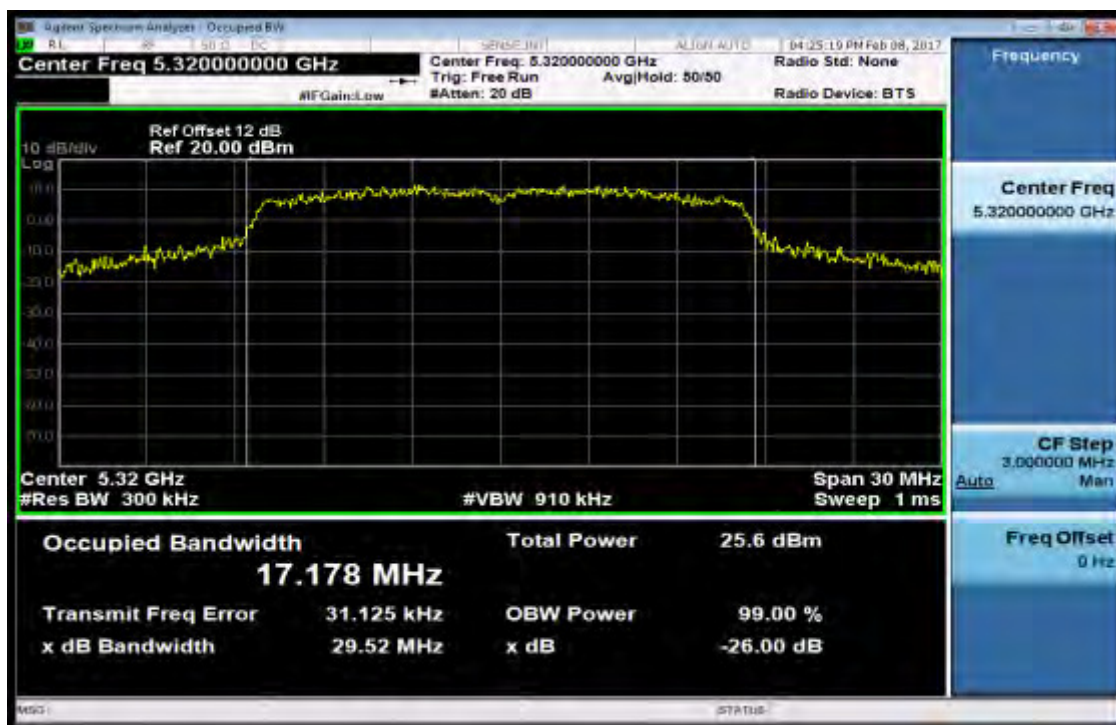
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26dB Band Width Test Data CH-High (5320MHz)



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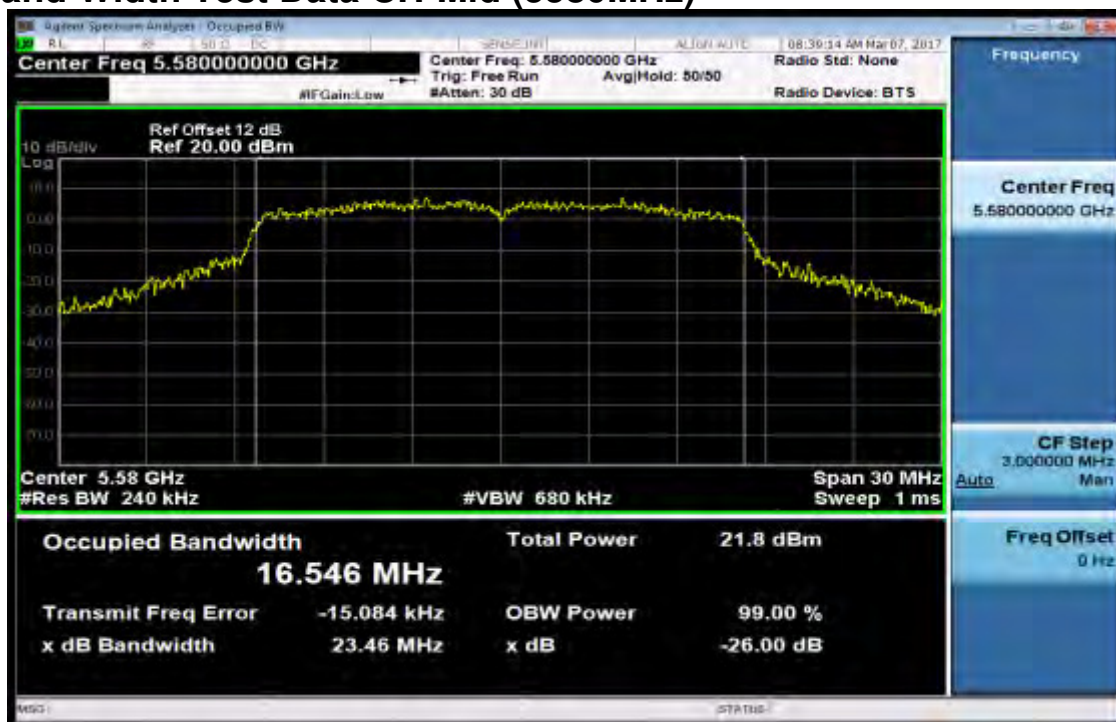
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802.11a, 5470~5725 MHz (MAIN) 26dB Band Width Test Data CH-Low (5500MHz)



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



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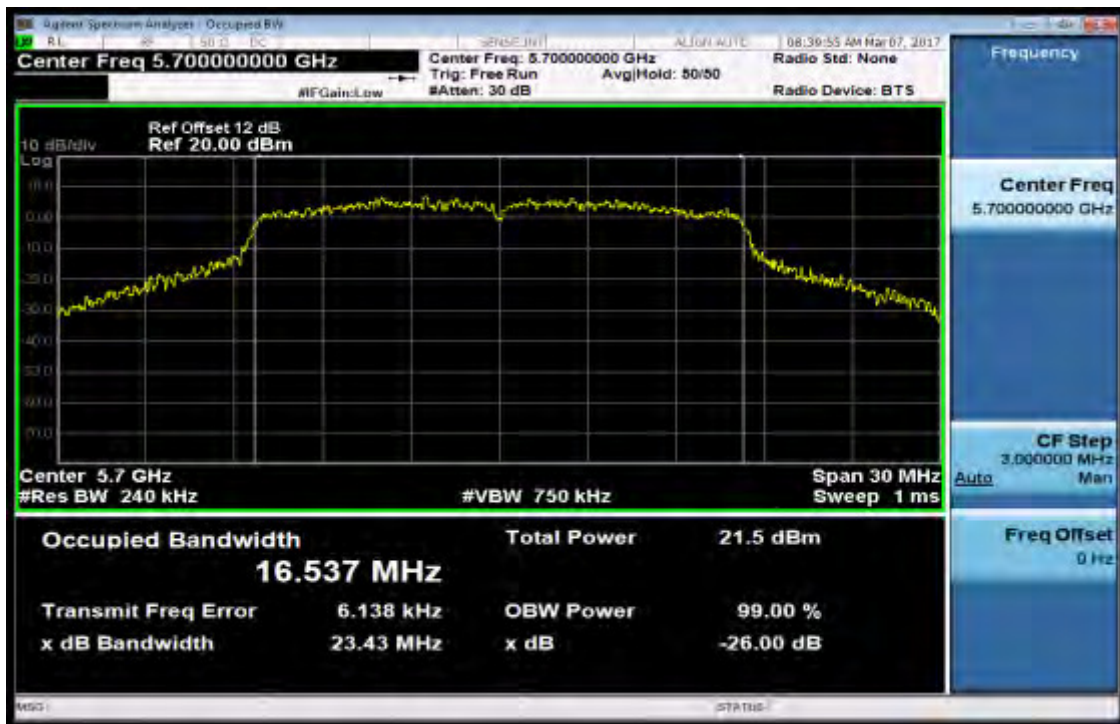
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26dB Band Width Test Data CH-High (5700MHz)



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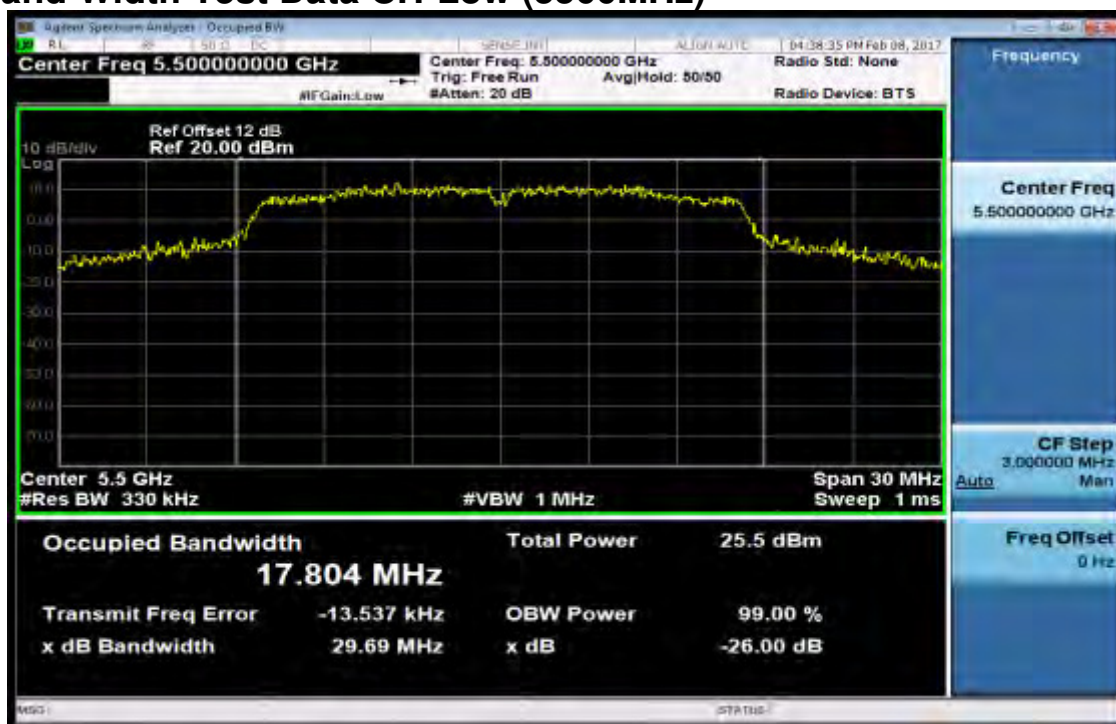
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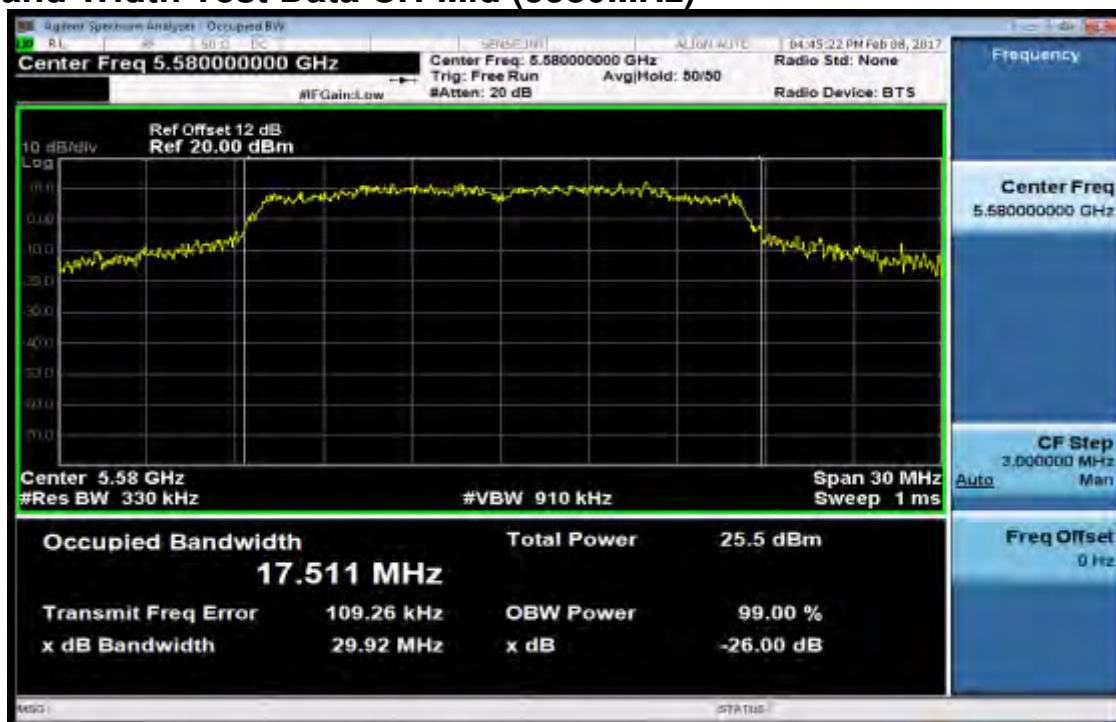
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802.11a, 5470~5725 MHz (AUX1) 26dB Band Width Test Data CH-Low (5500MHz)



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



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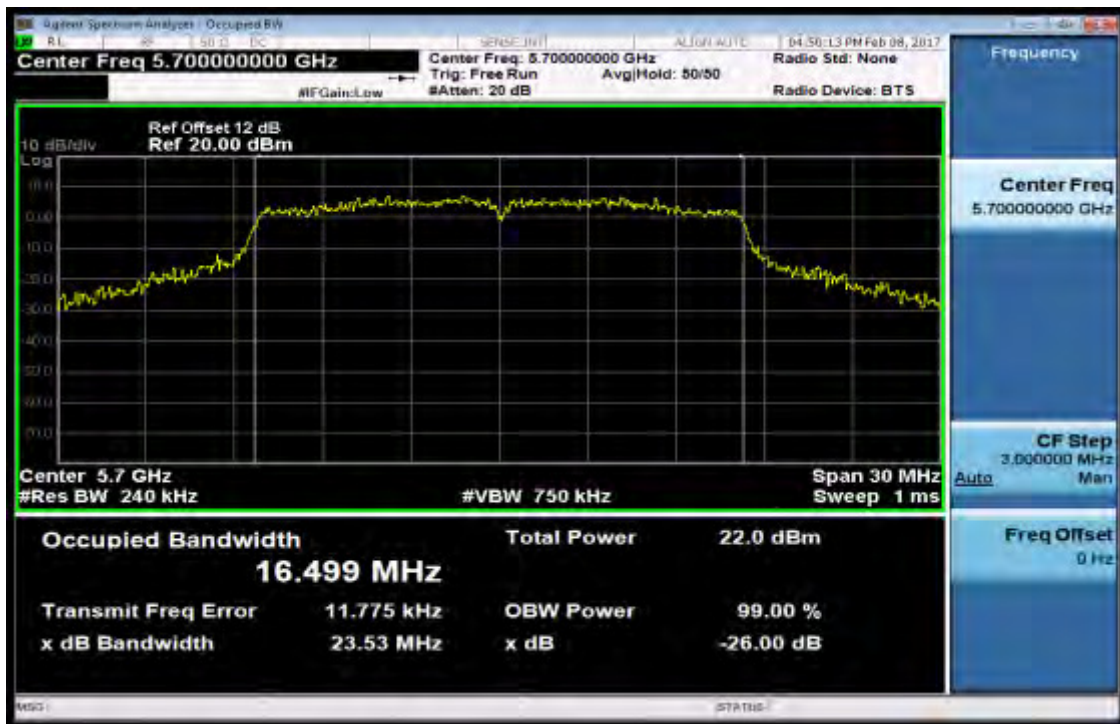
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26dB Band Width Test Data CH-High (5700MHz)



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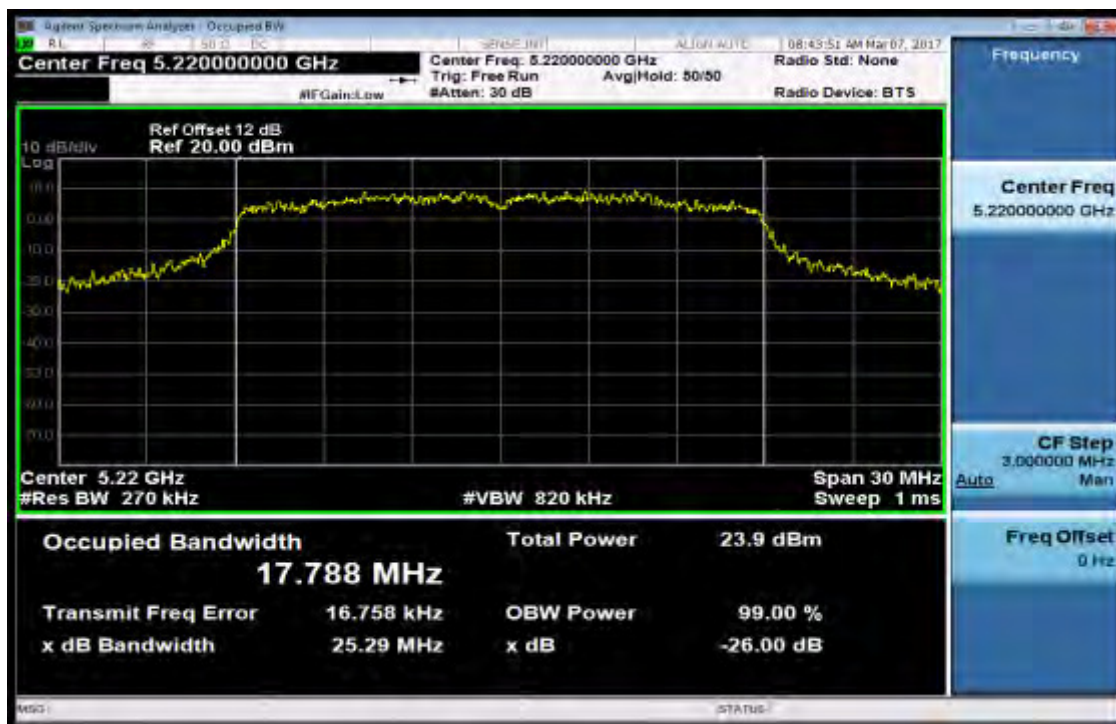
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802.11n HT20, 5150~5250 MHz (AUX1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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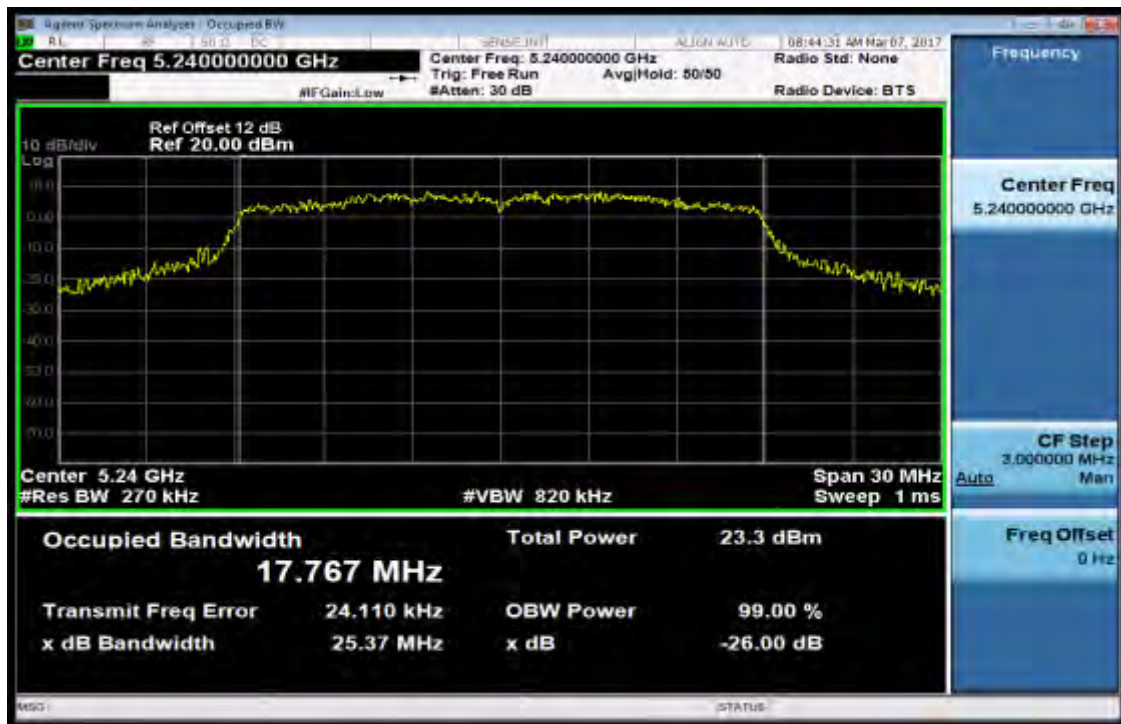
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26dB Band Width Test Data CH-High (5240 MHz)



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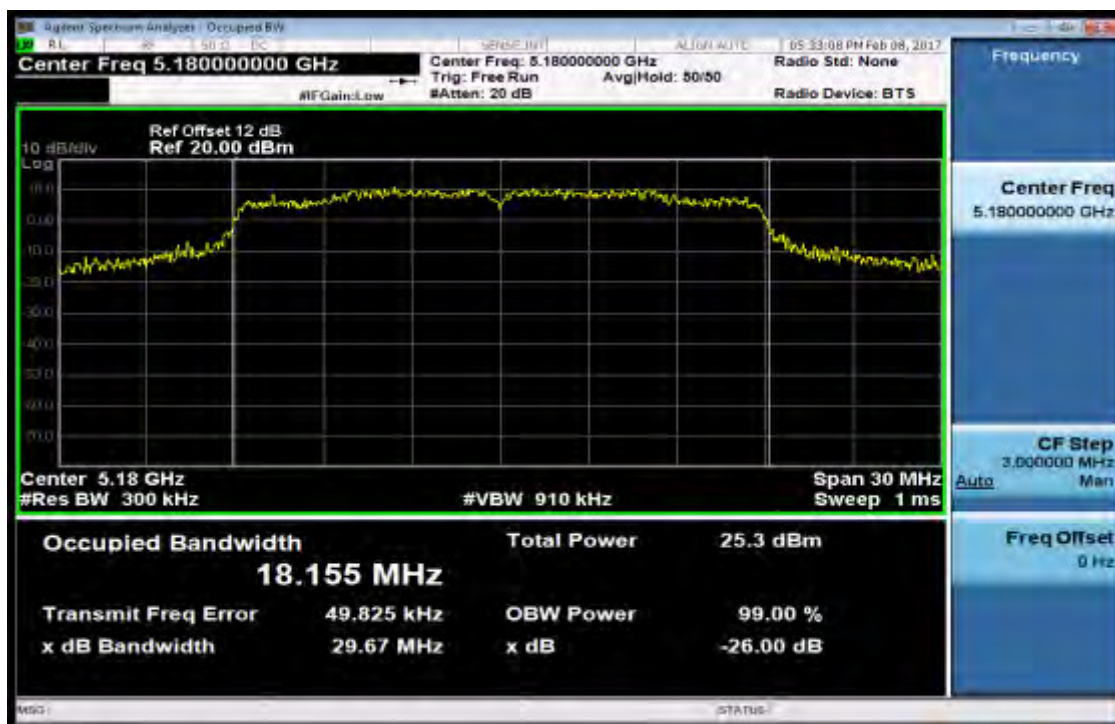
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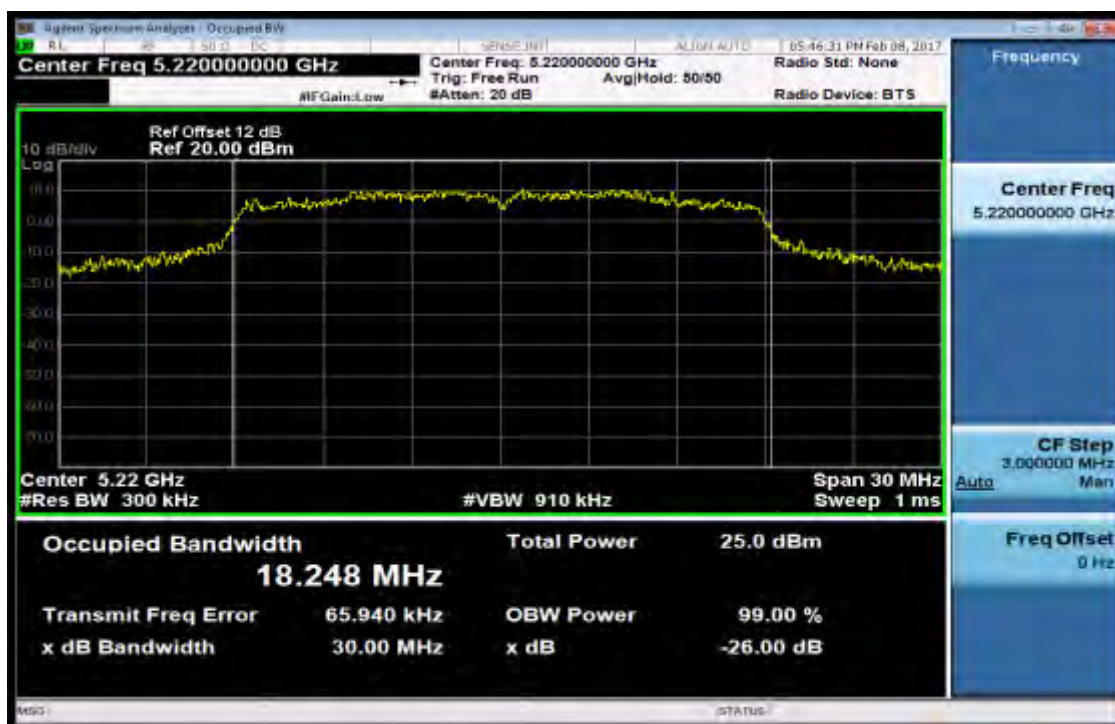
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802.11n HT20, 5150~5250 MHz (AUX1) 26dB Band Width Test Data CH-Low (5180 MHz)



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



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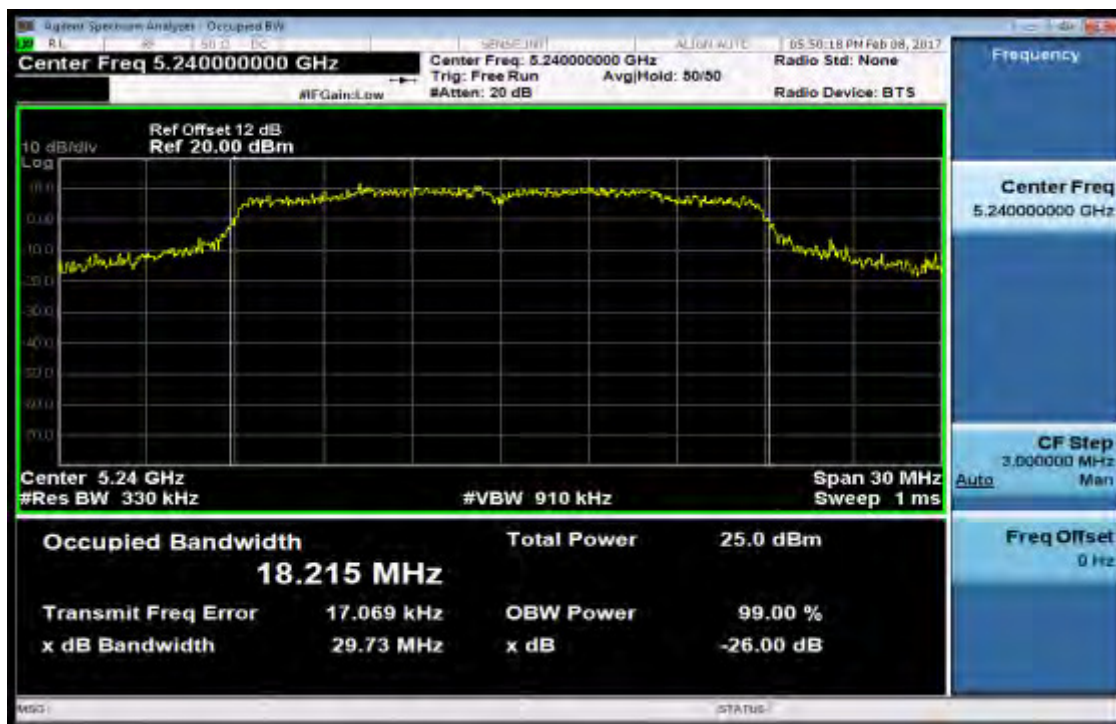
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26dB Band Width Test Data CH-High (5240 MHz)



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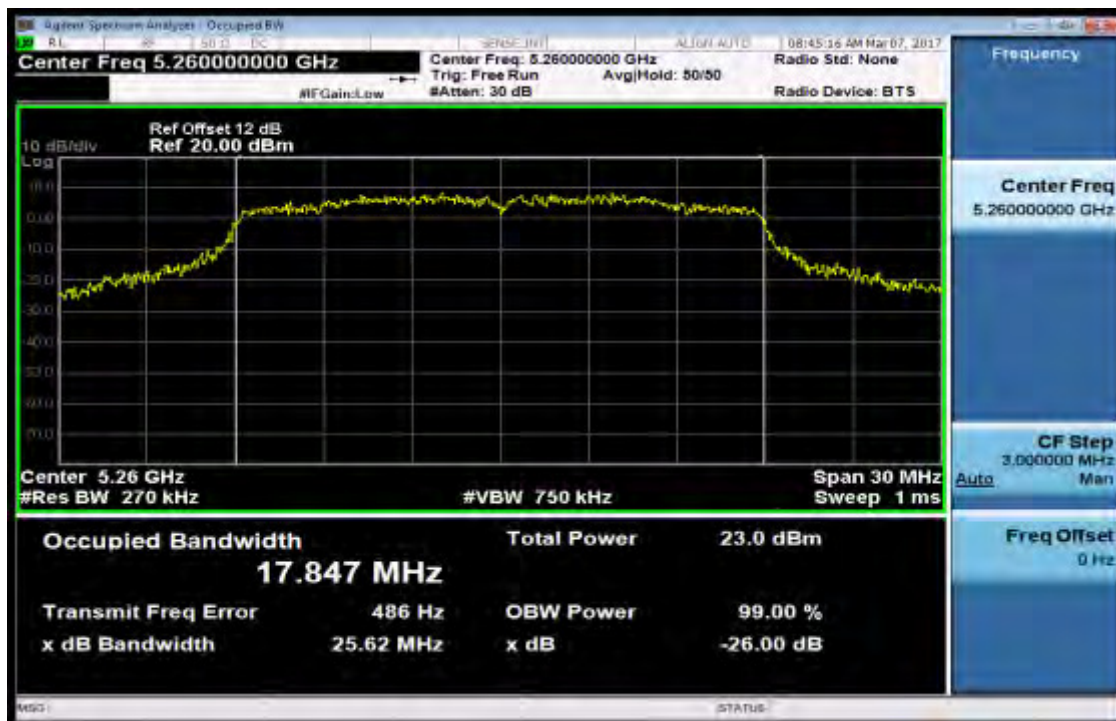
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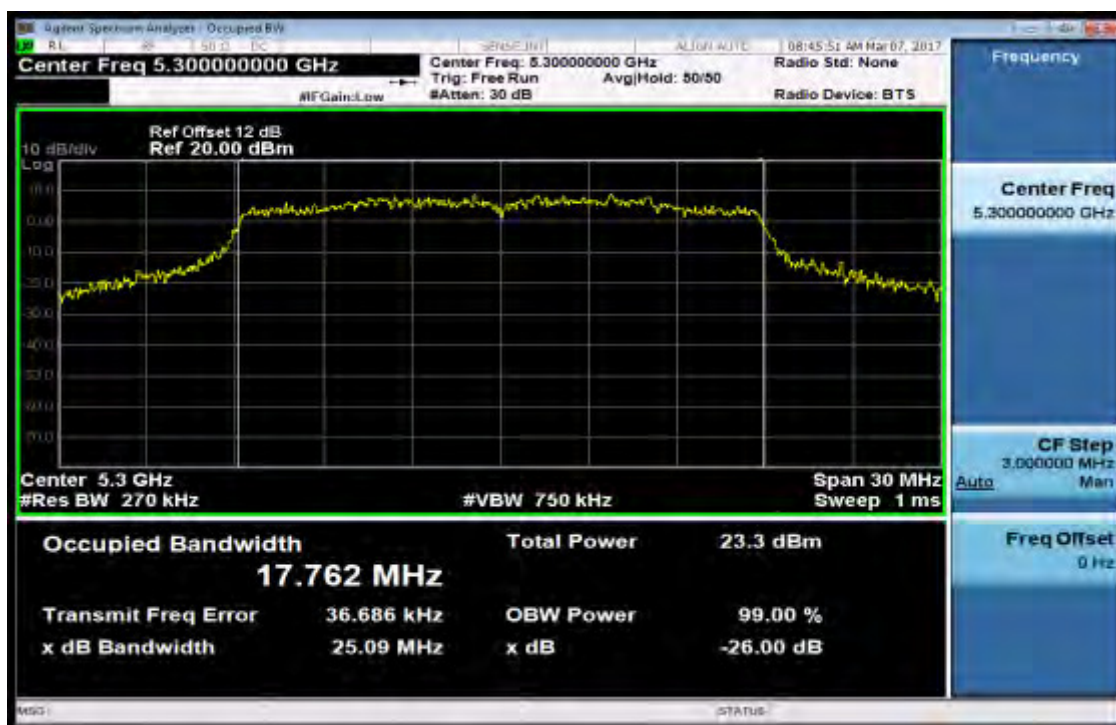
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802.11n HT20, 5250~5350 MHz (MAIN) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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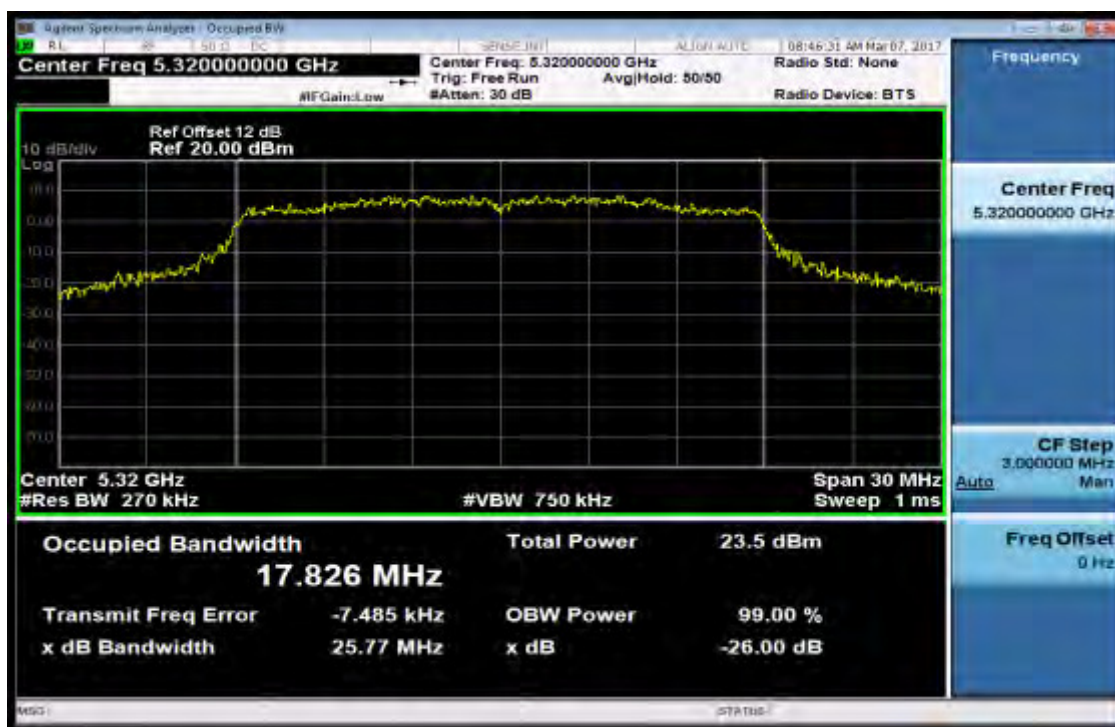
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26dB Band Width Test Data CH-High (5320 MHz)



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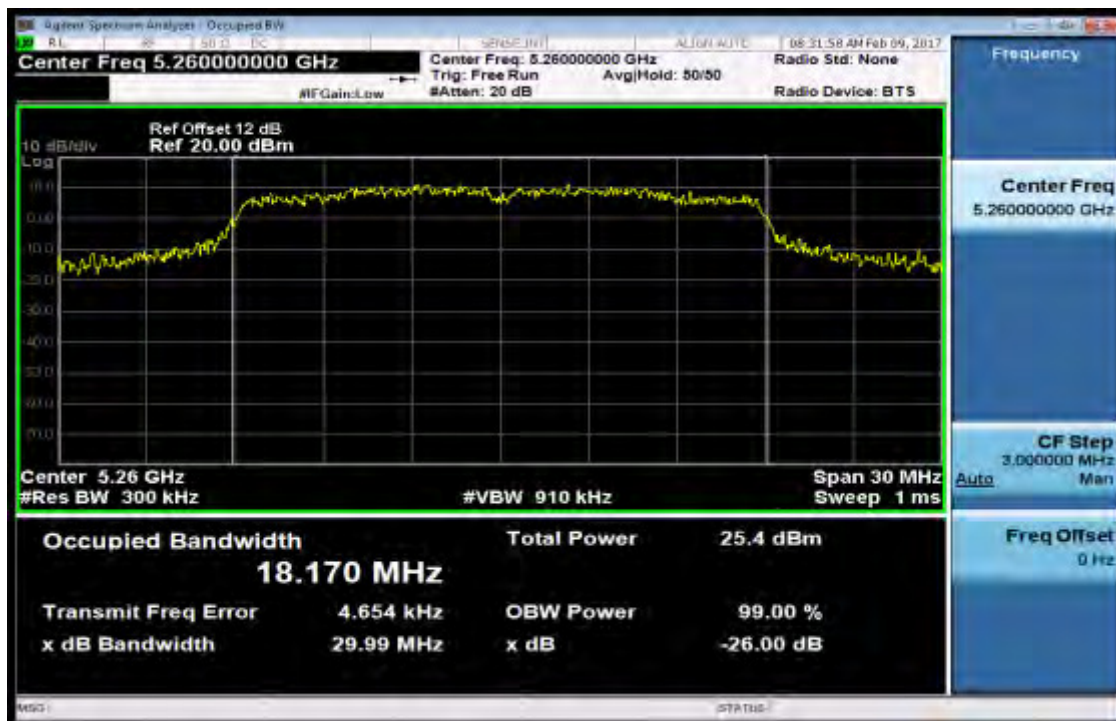
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802.11n HT20, 5250~5350 MHz (AUX1) 26dB Band Width Test Data CH-Low (5260 MHz)



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



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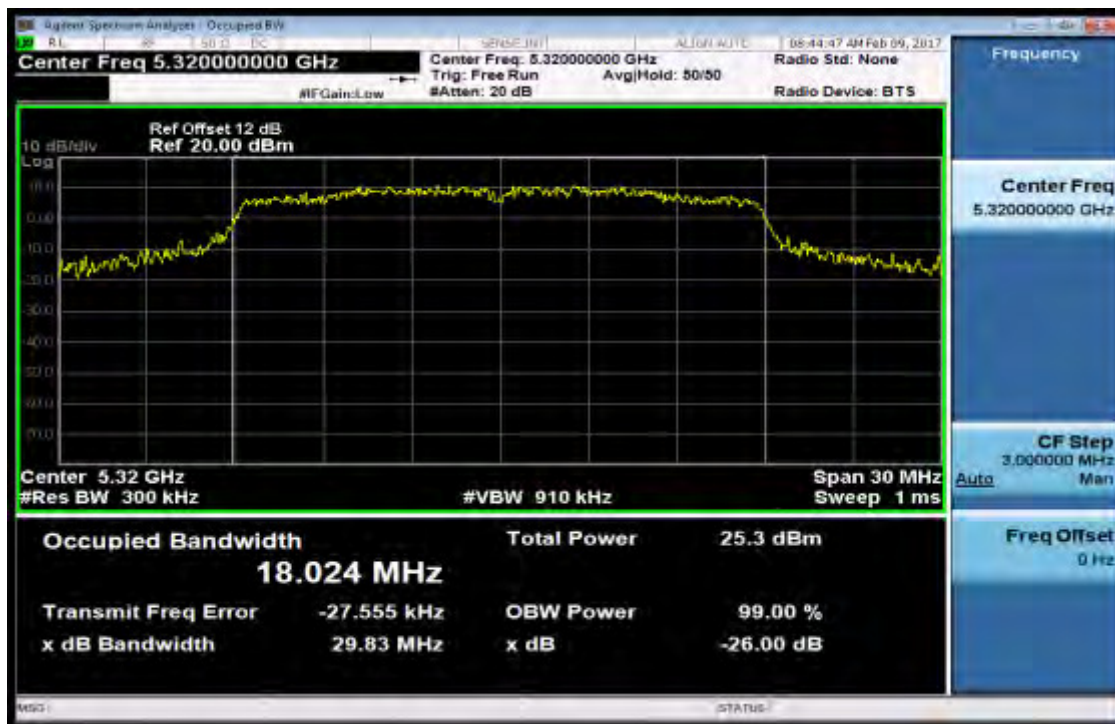
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26dB Band Width Test Data CH-High (5320 MHz)



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802.11n HT20, 5470~5725 MHz (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)



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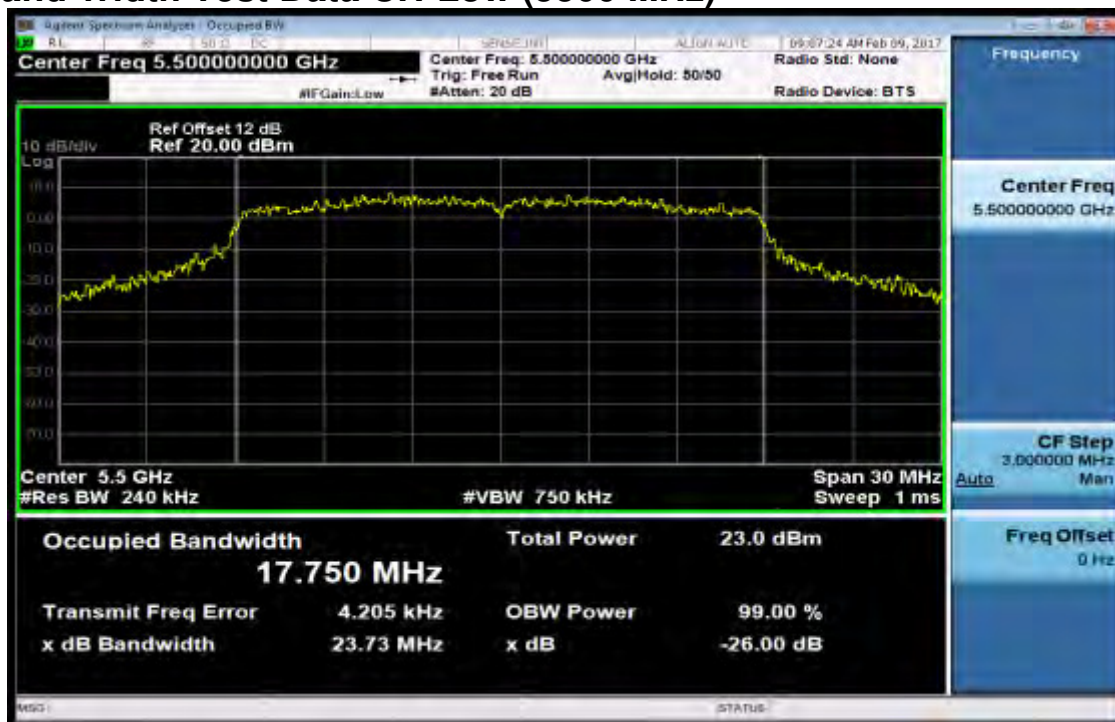
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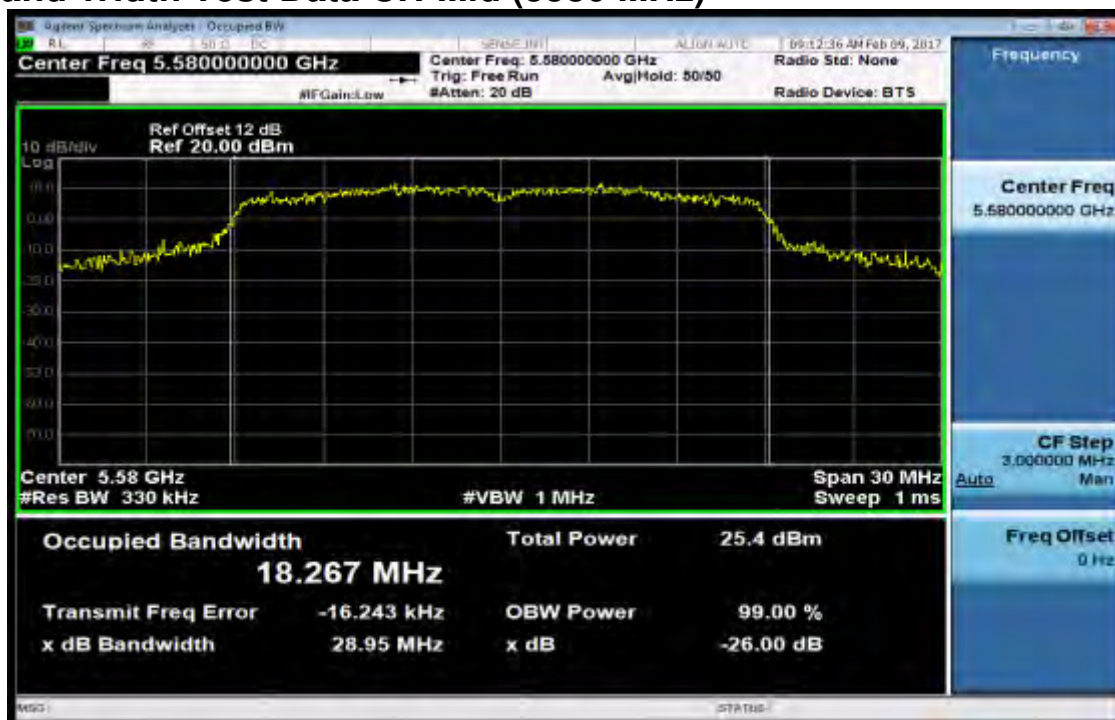
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802.11n HT20, 5470~5725 MHz (AUX1) 26dB Band Width Test Data CH-Low (5500 MHz)



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



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



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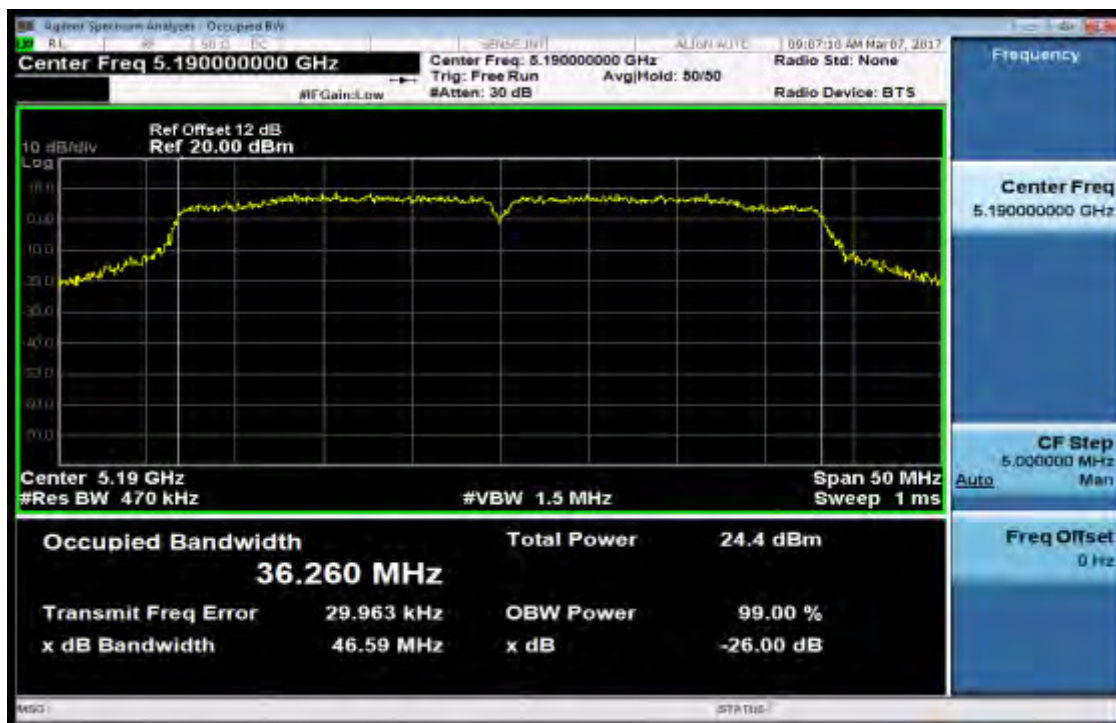
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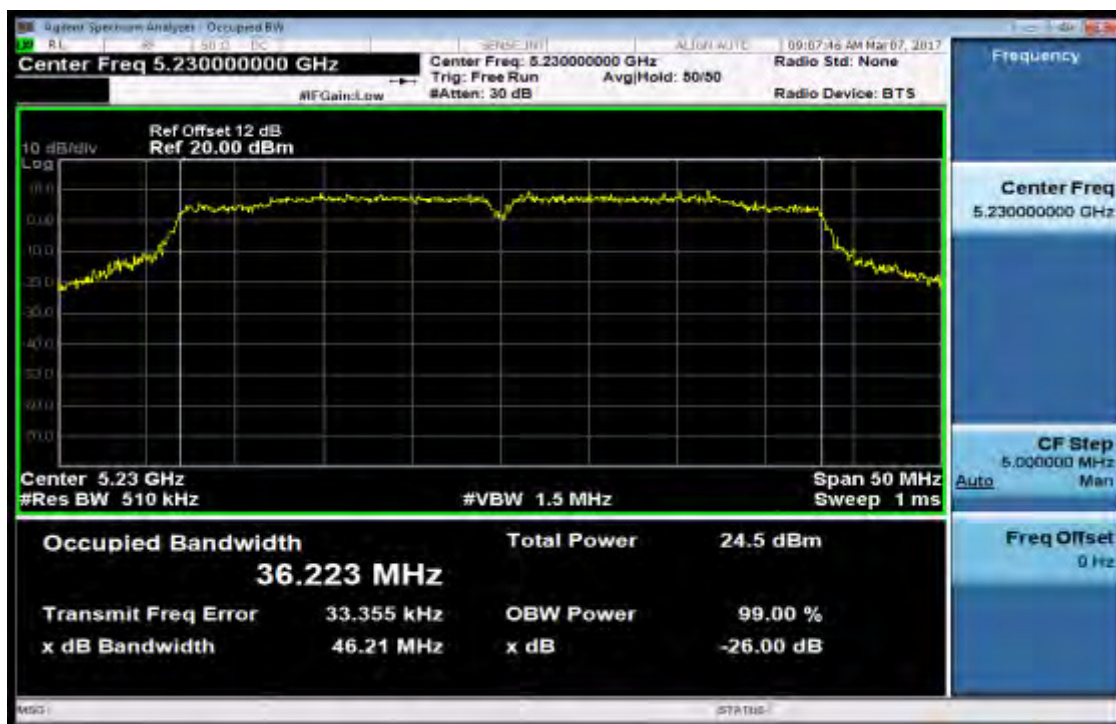
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802.11n HT40, 5150~5250 MHz (MAIN) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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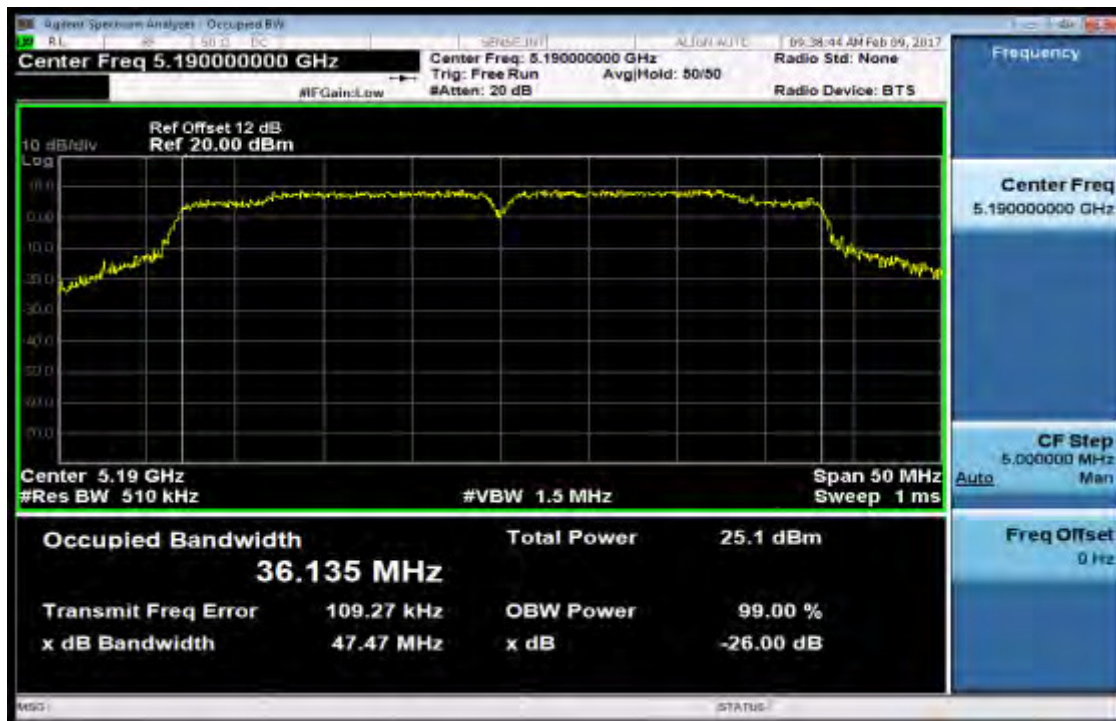
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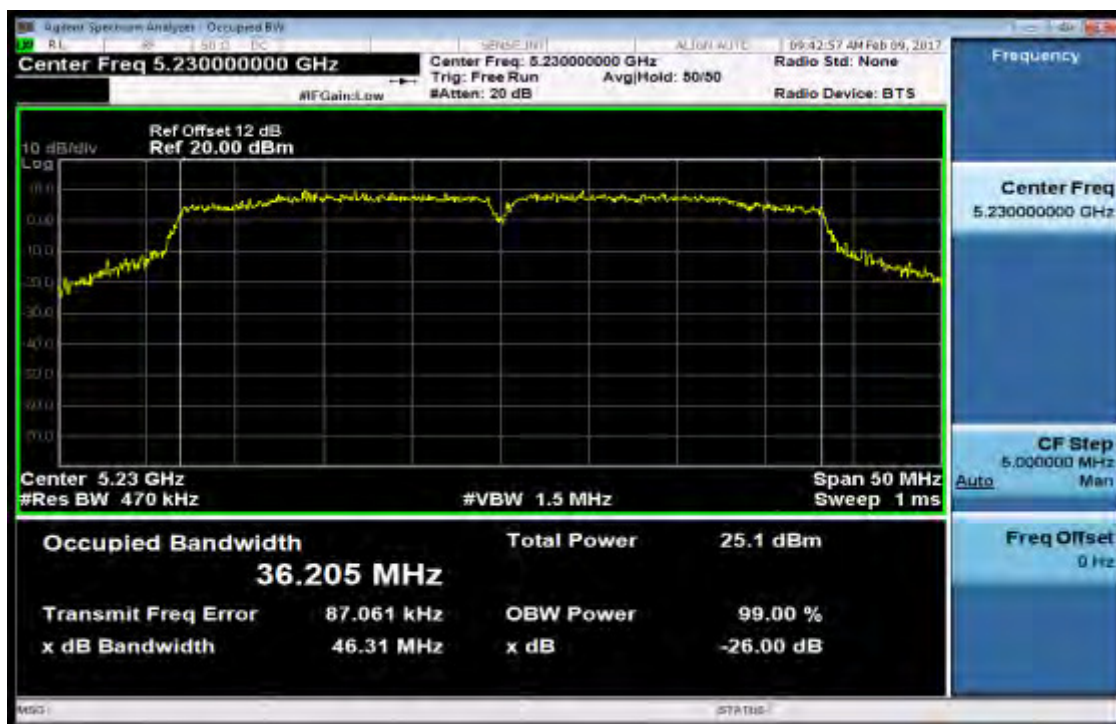
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802.11n HT40, 5150~5250 MHz (AUX1)

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



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



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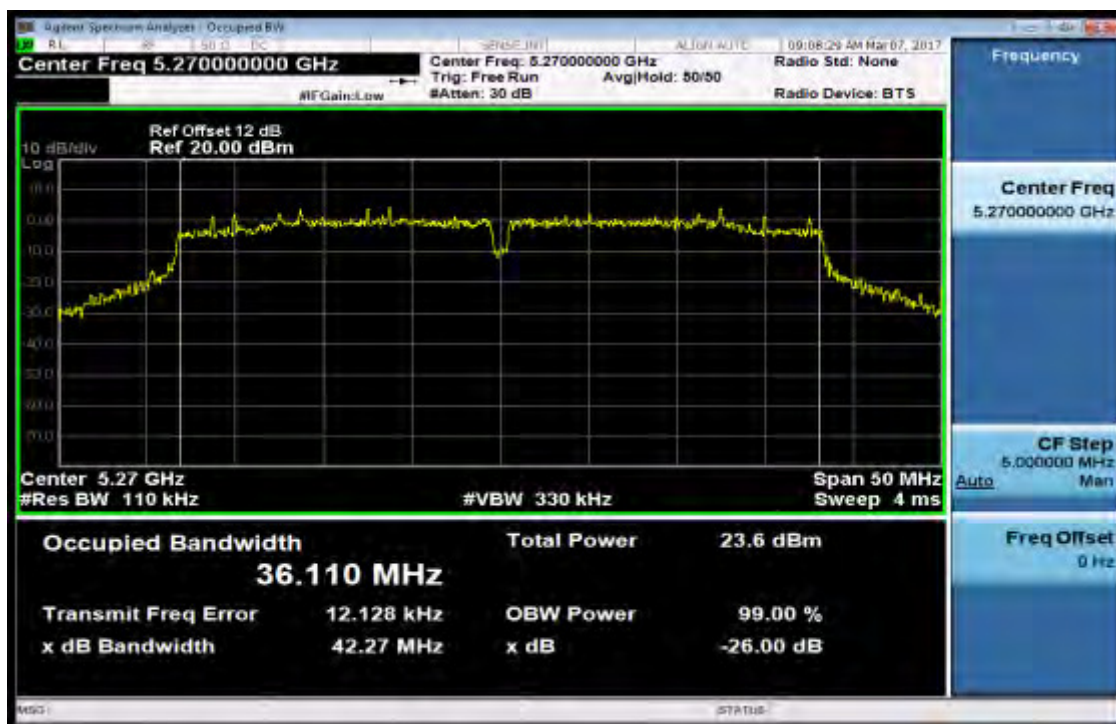
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802.11n HT40, 5250~5350 MHz (MAIN) 26dB Band Width Test Data CH-Low (5270 MHz)



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



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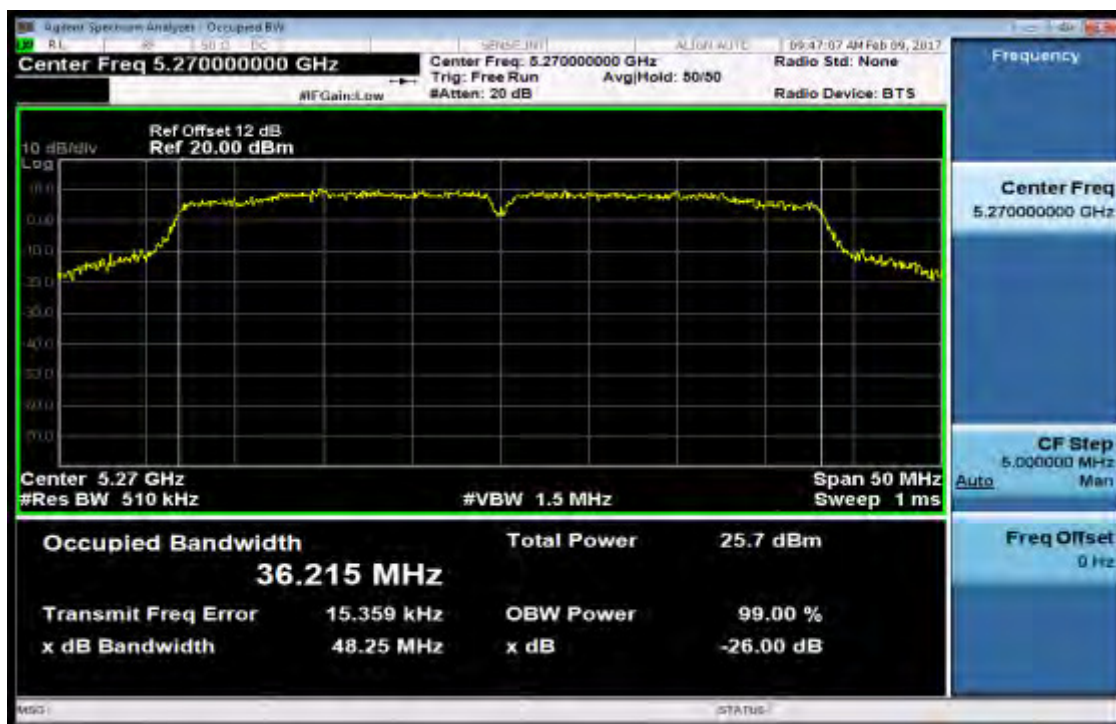
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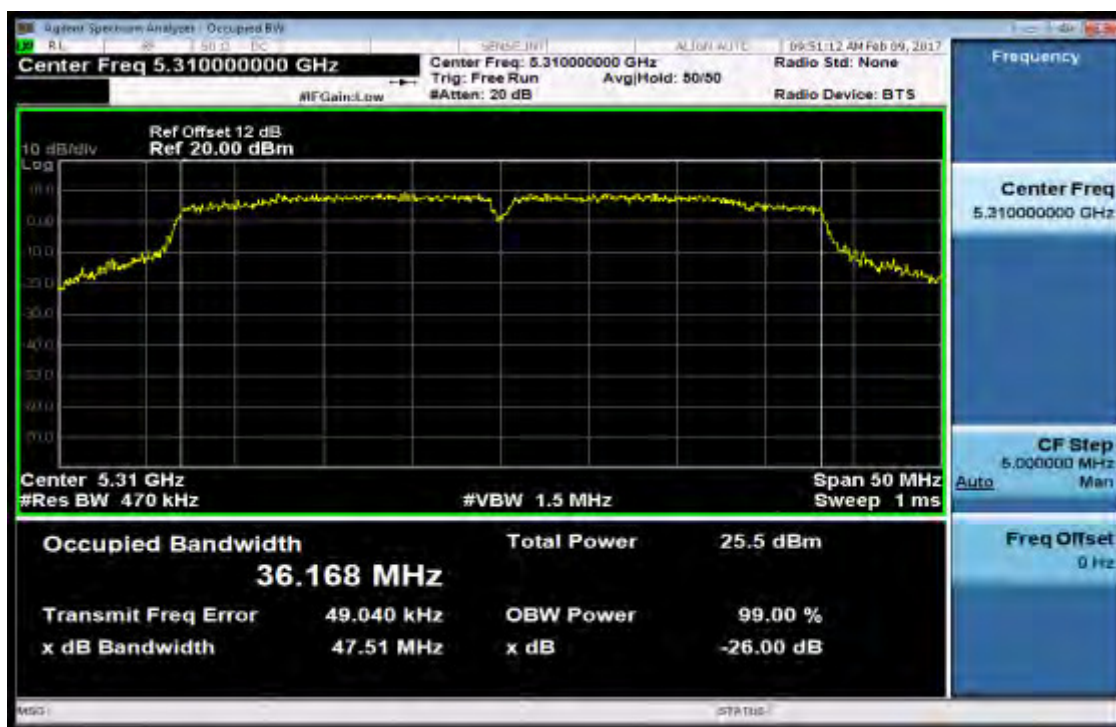
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802.11n HT40, 5250~5350 MHz (AUX1) 26dB Band Width Test Data CH-Low (5270 MHz)



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)



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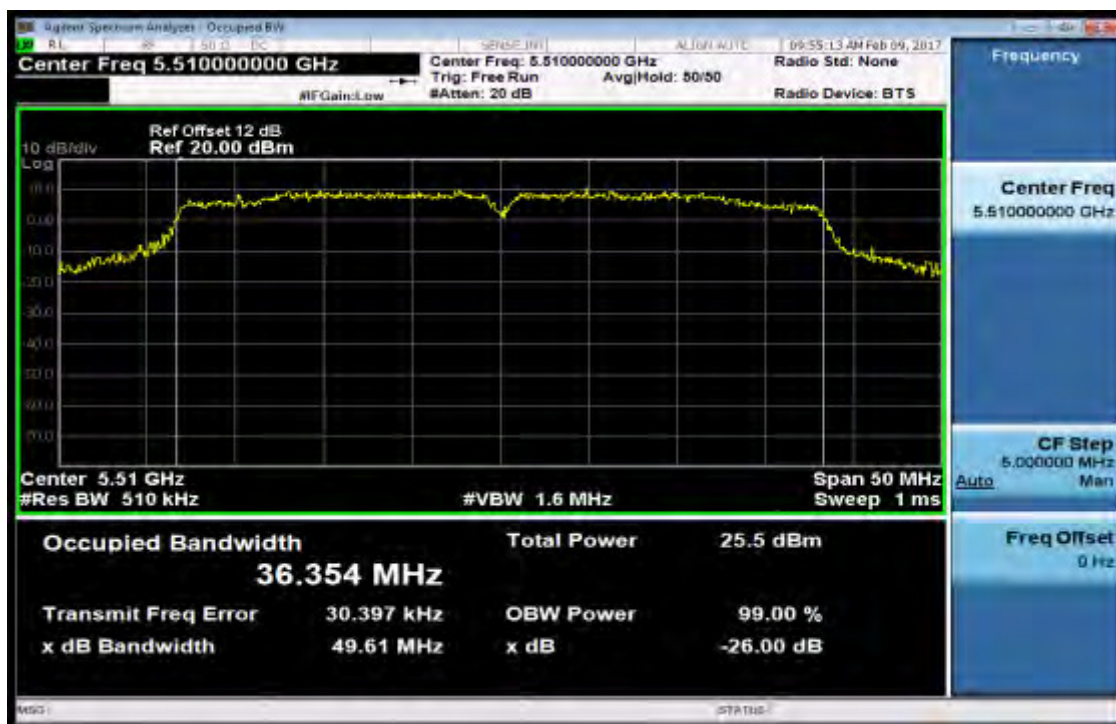
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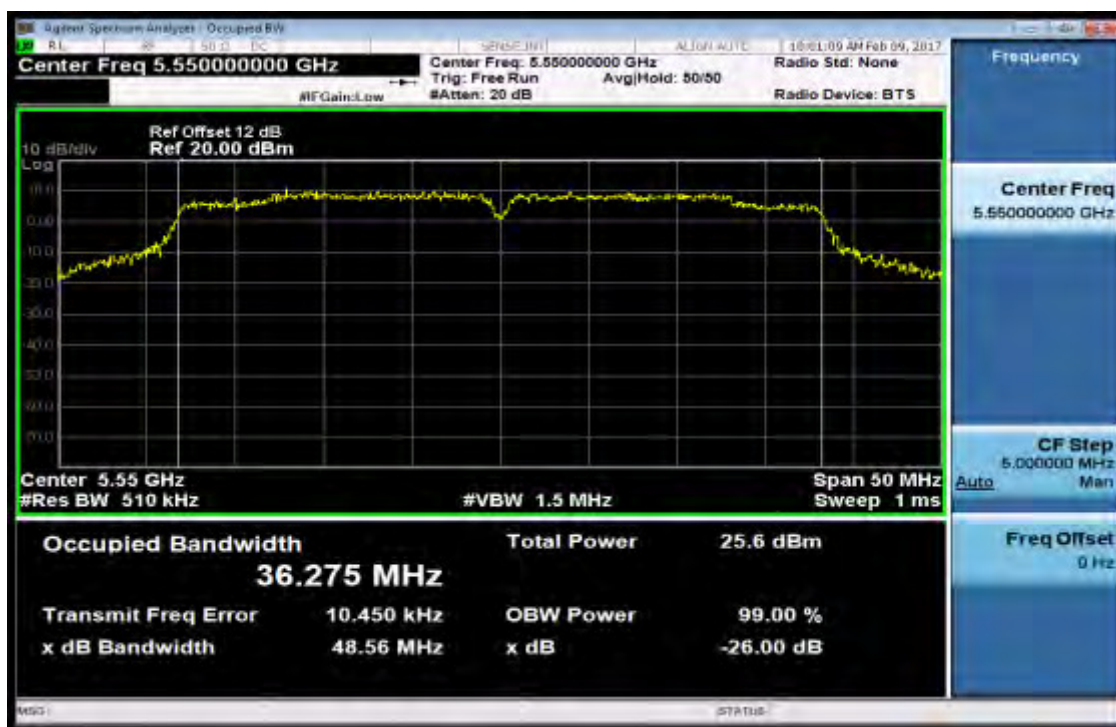
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802.11n HT40, 5470~5725 MHz (AUX1) 26dB Band Width Test Data CH-Low (5510 MHz)



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



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



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



802.11ac VHT80, 5150~5250 MHz (AUX1) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



802.11ac VHT80, 5250~5350 MHz (AUX1) 26dB Band Width Test Data CH-Mid (5290 MHz)



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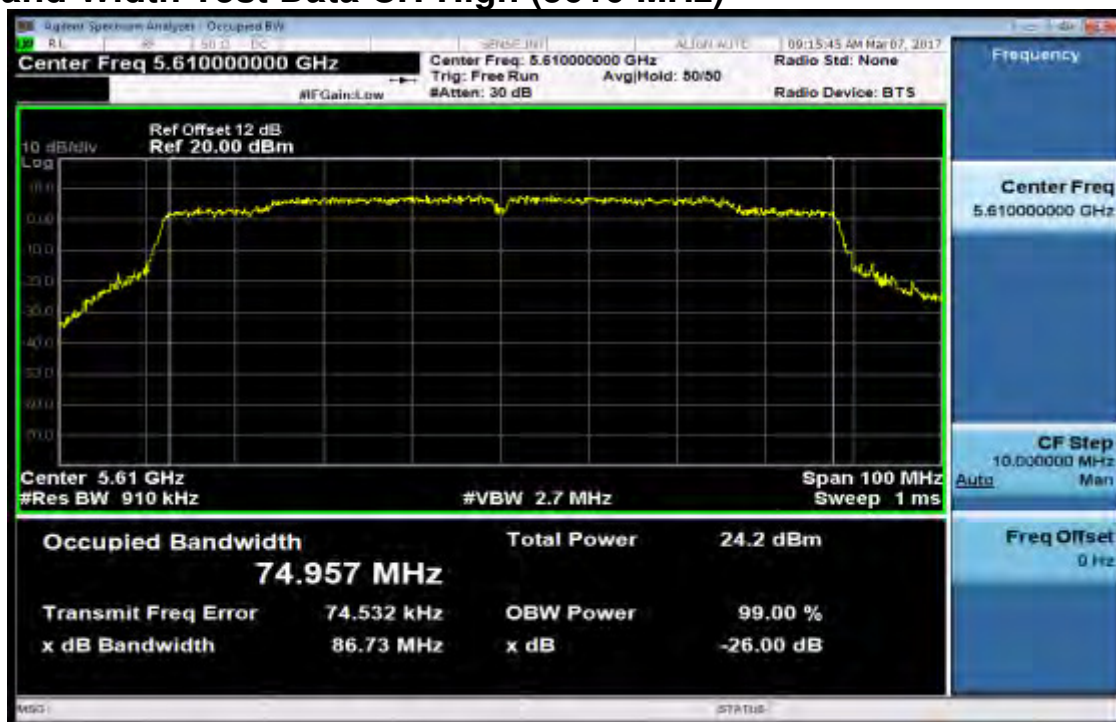
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802.11ac VHT80, 5470~5725 MHz (MAIN) 26dB Band Width Test Data CH-Low (5530 MHz)



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



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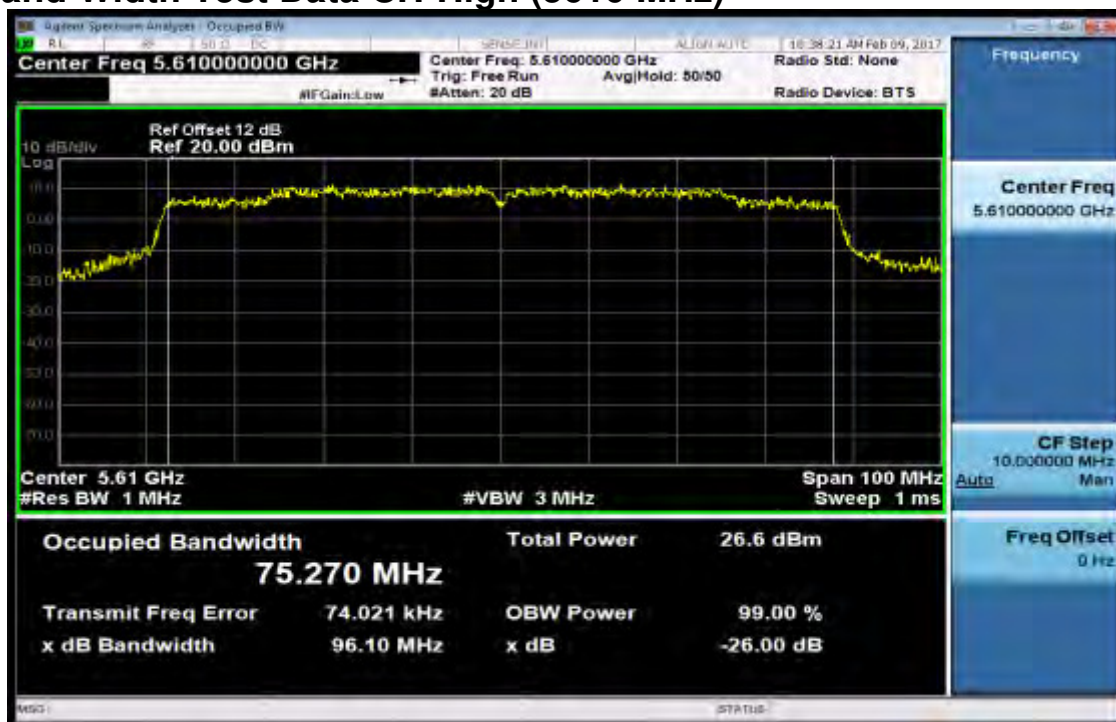
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802.11ac VHT80, 5470~5725 MHz (AUX1) 26dB Band Width Test Data CH-Low (5530 MHz)



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



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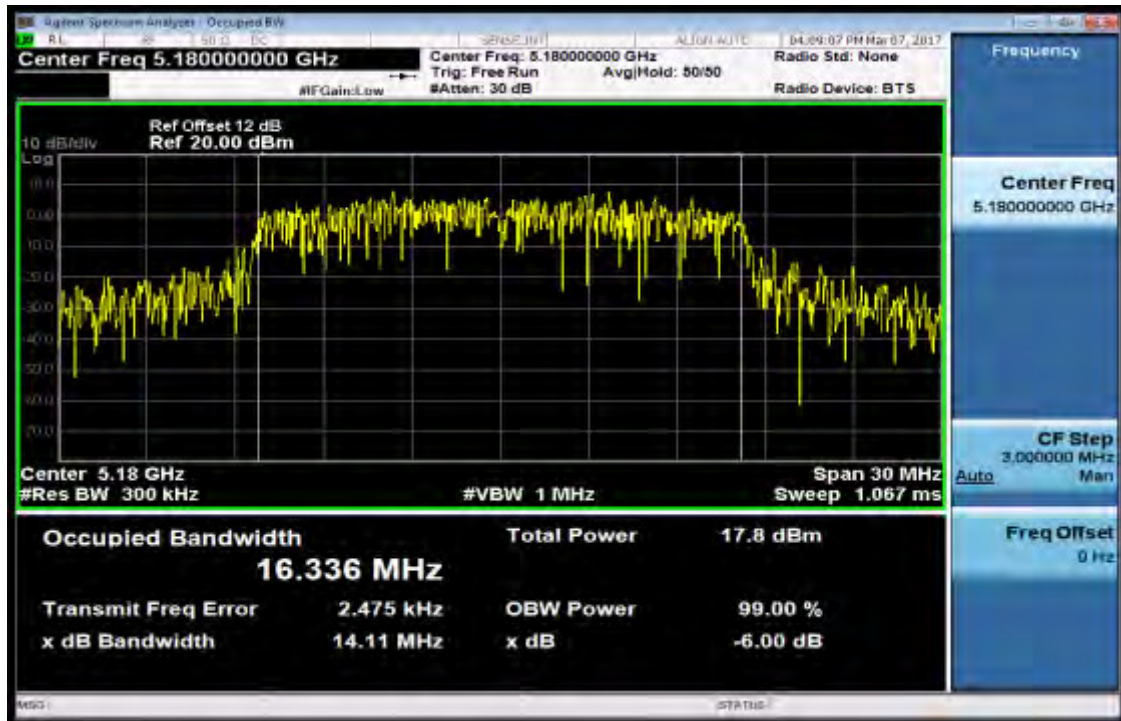
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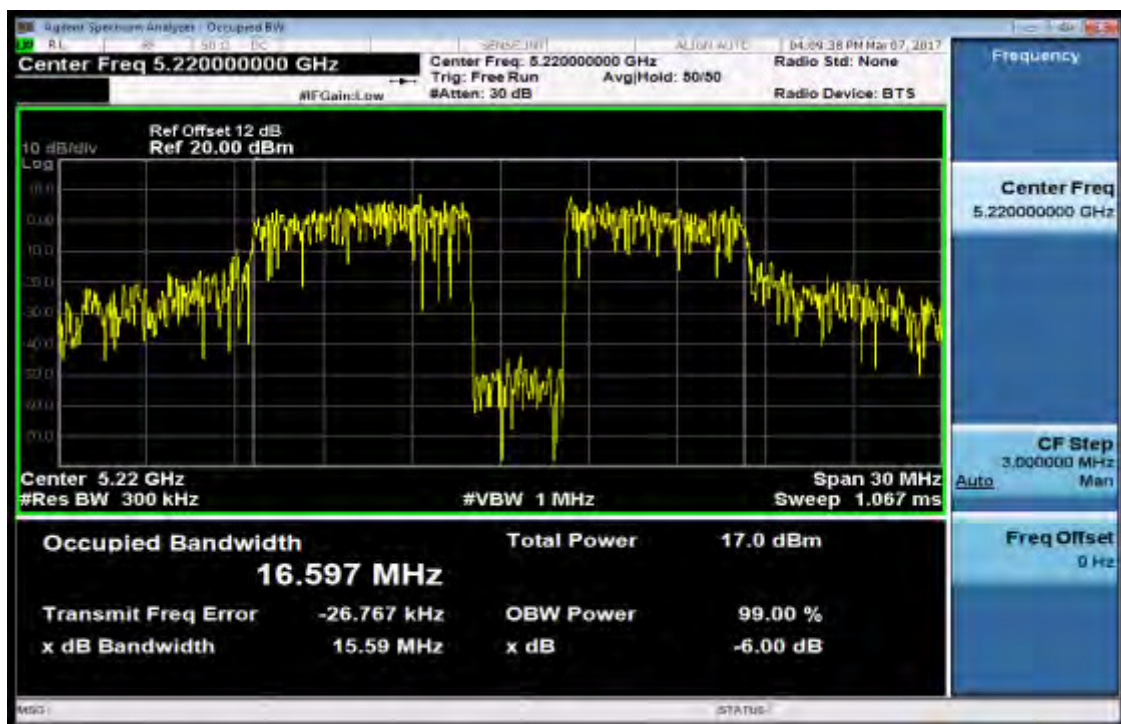
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802.11a, 5150~5250 MHz (MAIN) 99% Band Width Test Data CH-Low (5180MHz)



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



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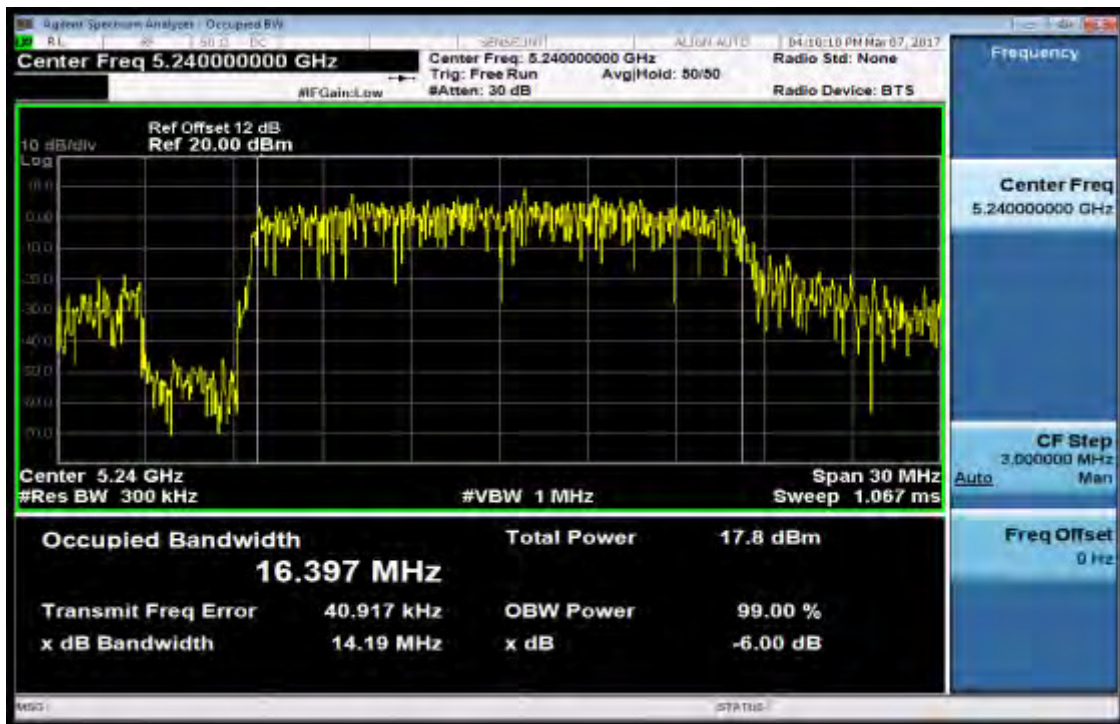
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f (886-2) 2298-0488

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Member of SGS Group

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



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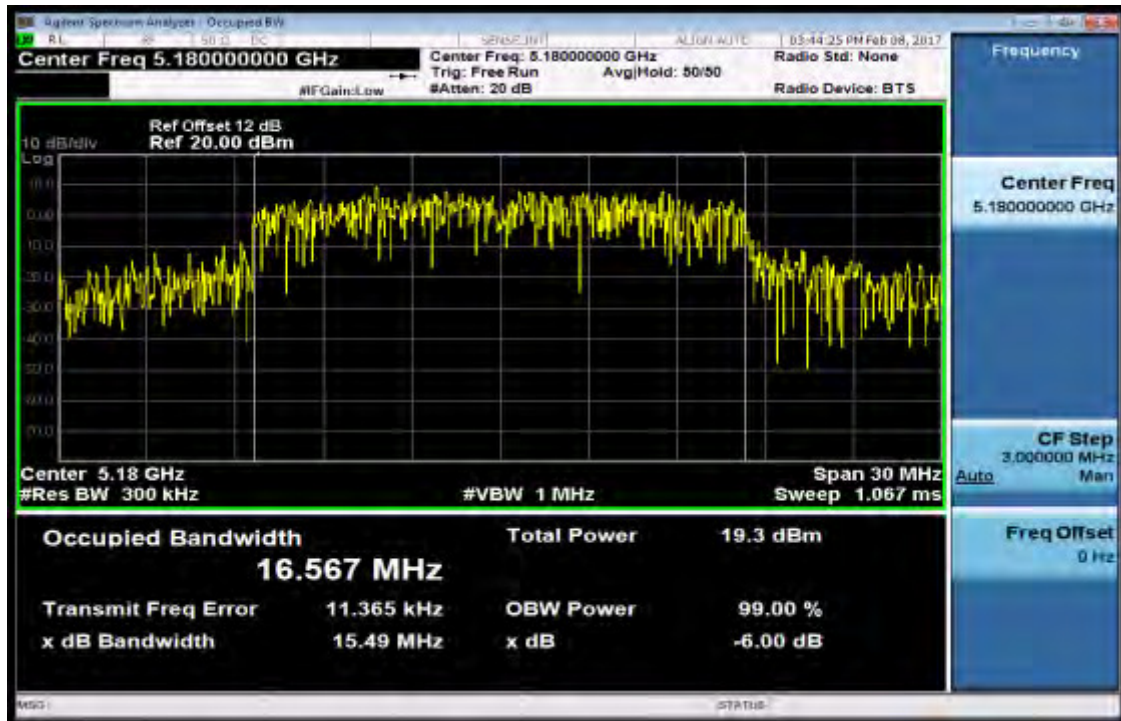
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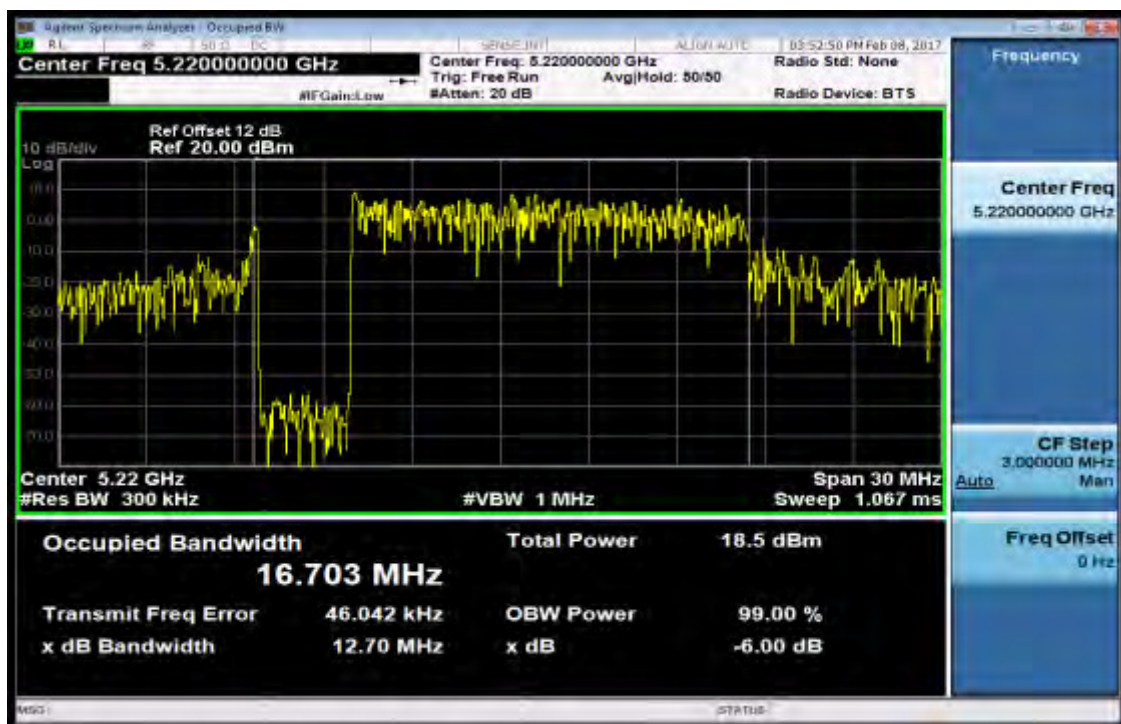
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802.11a, 5150~5250 MHz (AUX1) 99% Band Width Test Data CH-Low (5180MHz)



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



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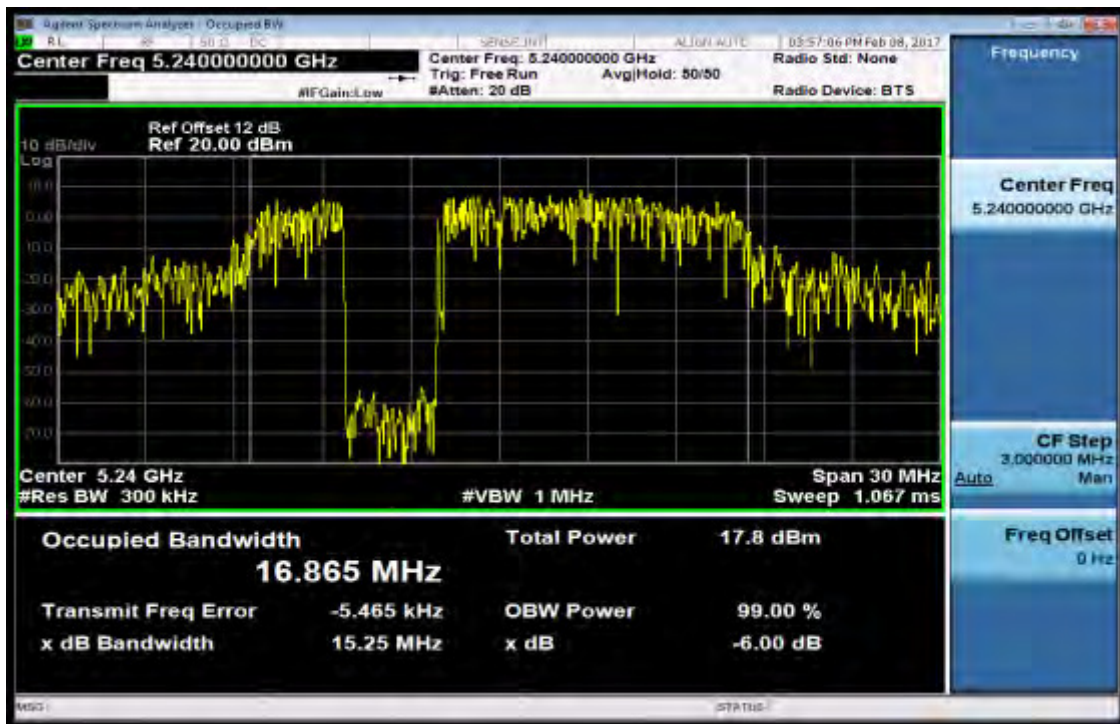
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99% Band Width Test Data CH-High (5240MHz)



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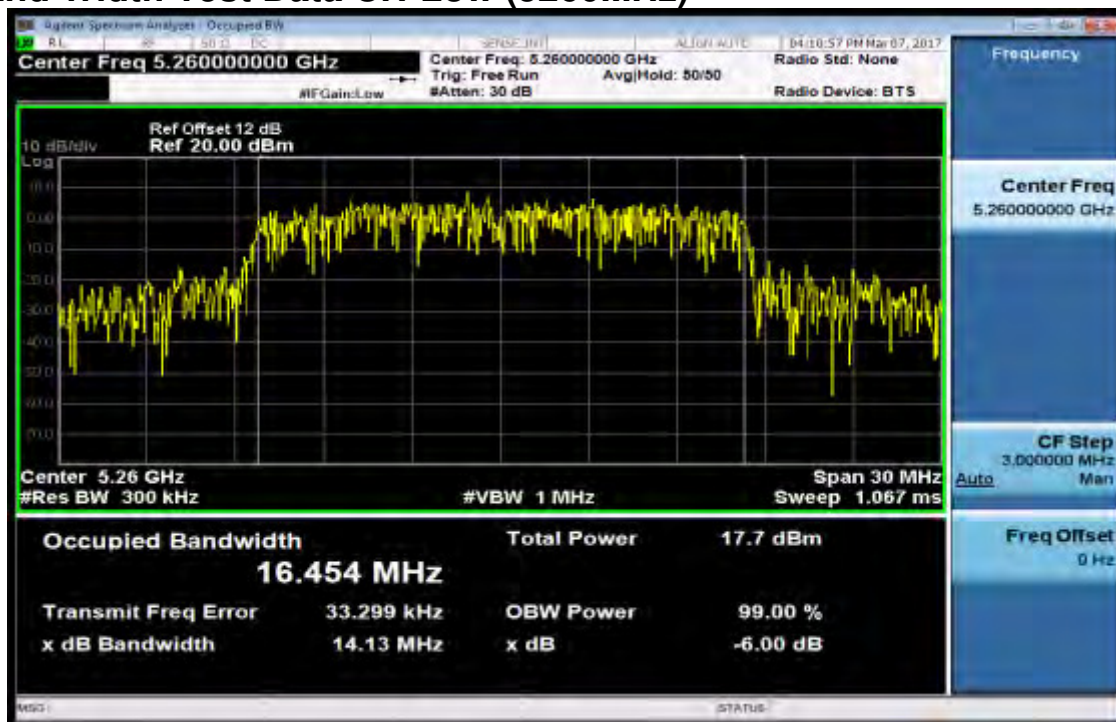
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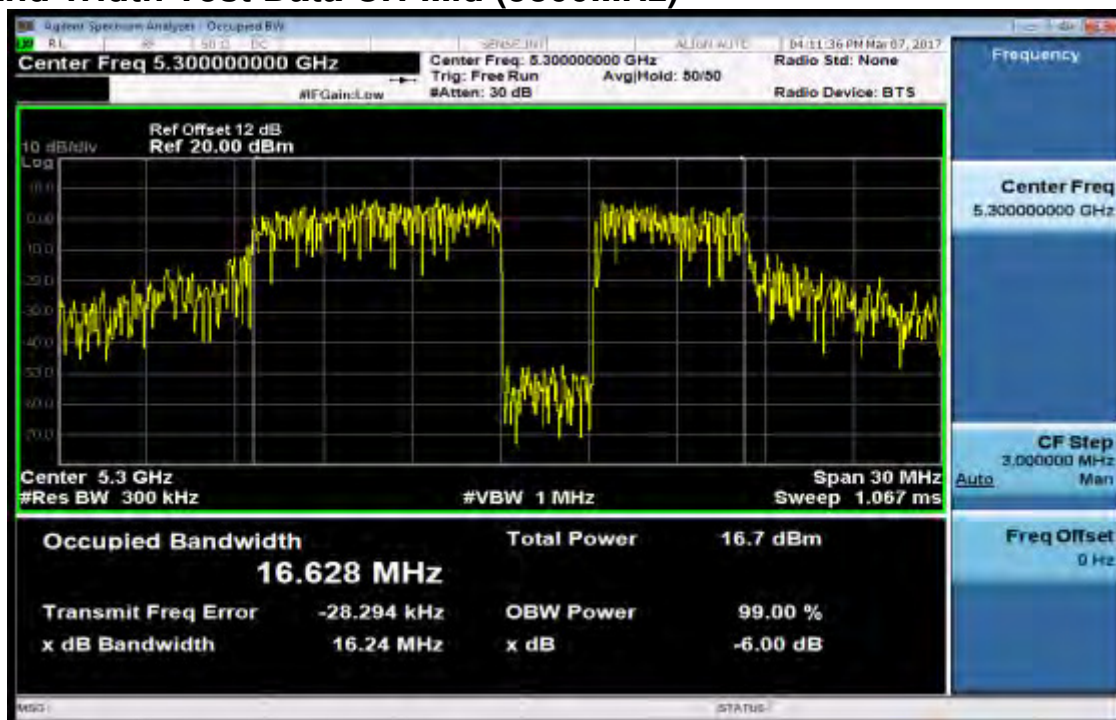
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802.11a, 5250~5350 MHz (MAIN)

99% Band Width Test Data CH-Low (5260MHz)



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



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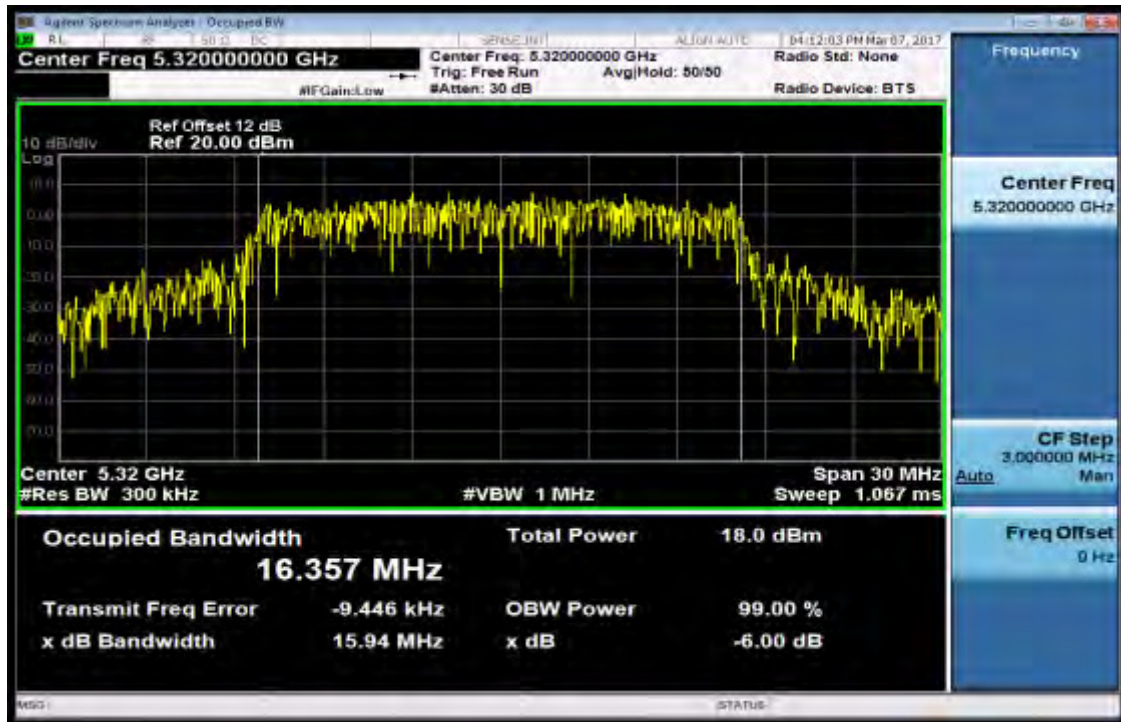
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99% Band Width Test Data CH-High (5320MHz)



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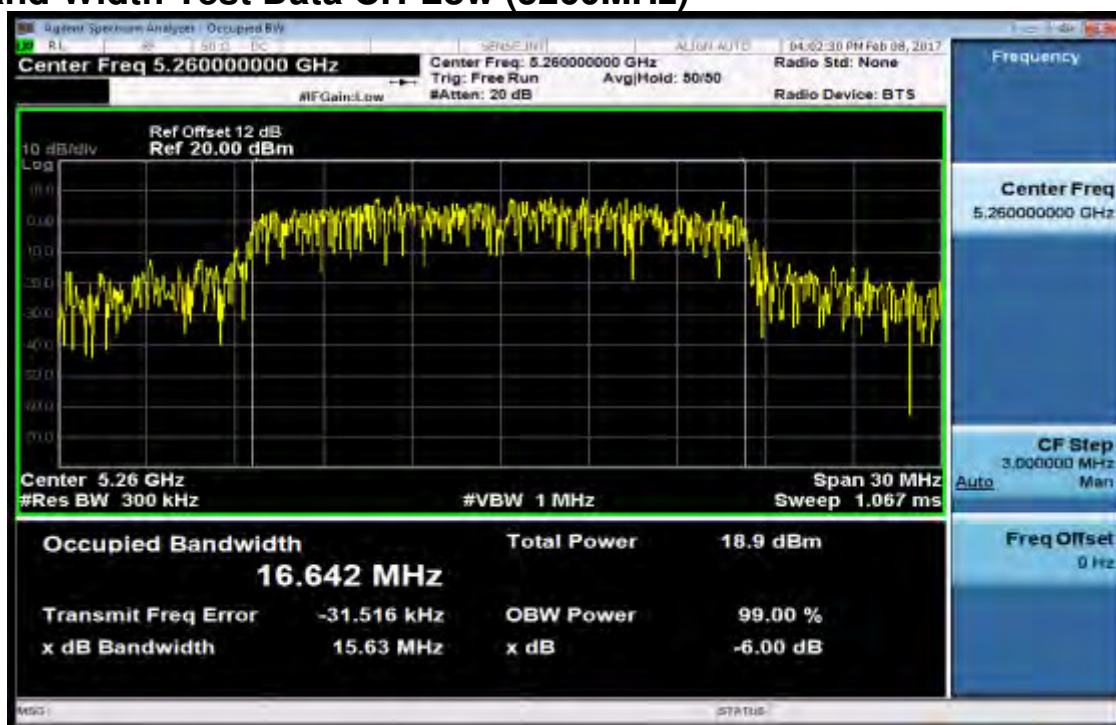
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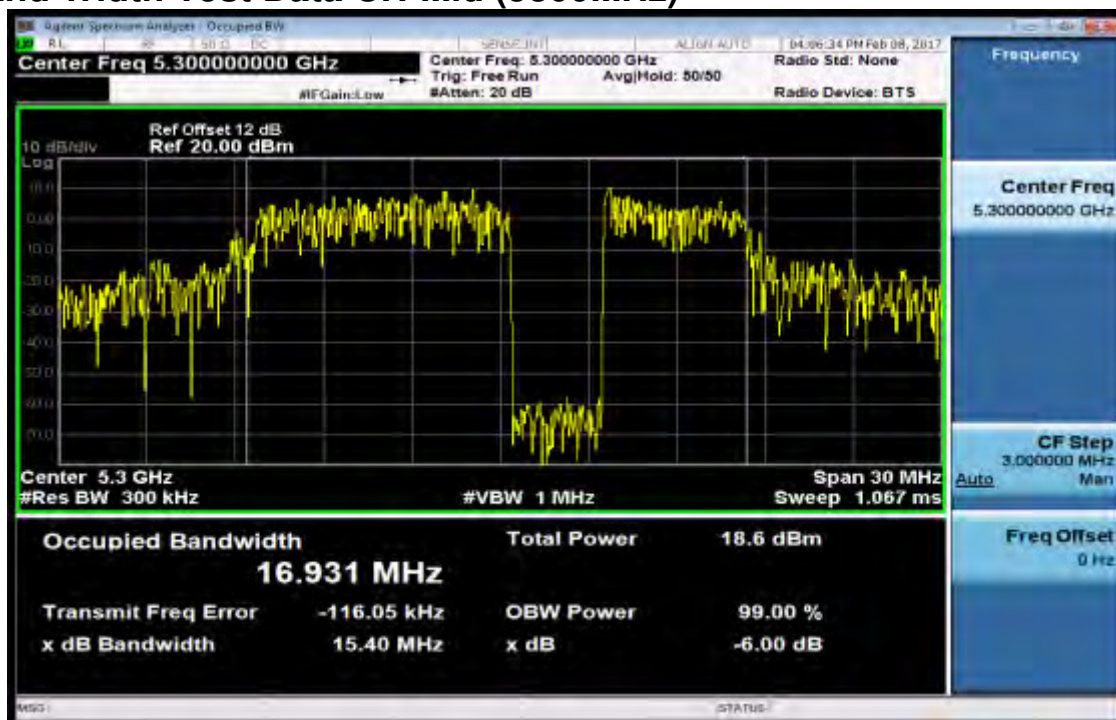
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802.11a, 5250~5350 MHz (AUX1) 99% Band Width Test Data CH-Low (5260MHz)



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



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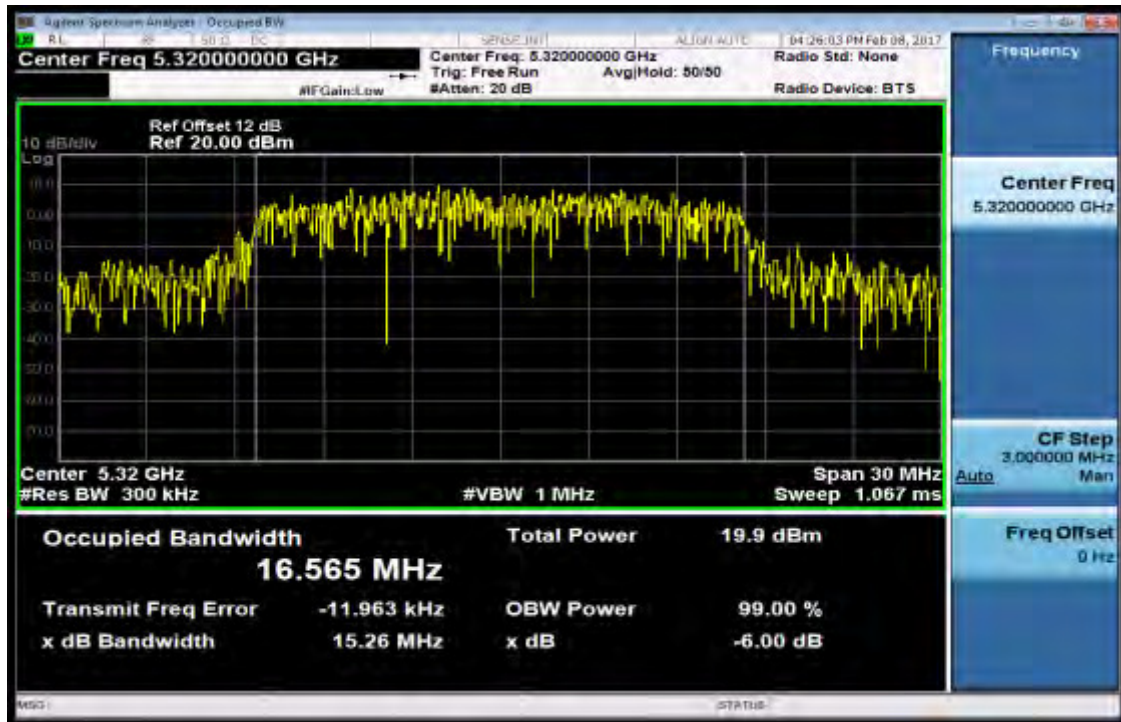
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99% Band Width Test Data CH-High (5320MHz)



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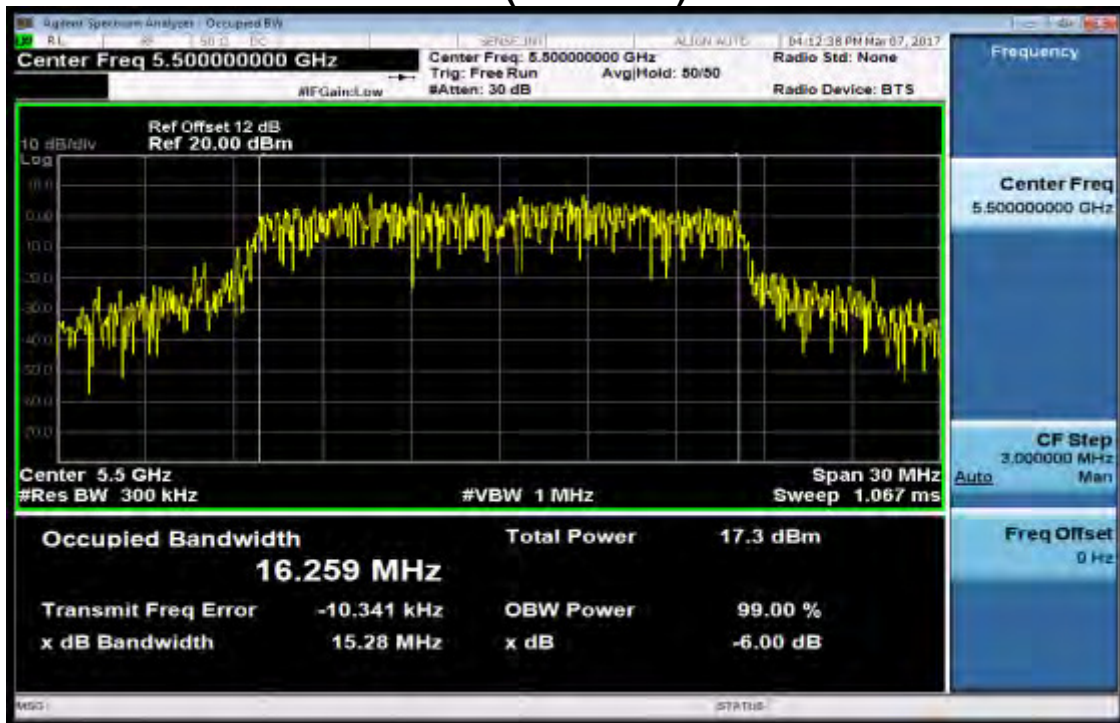
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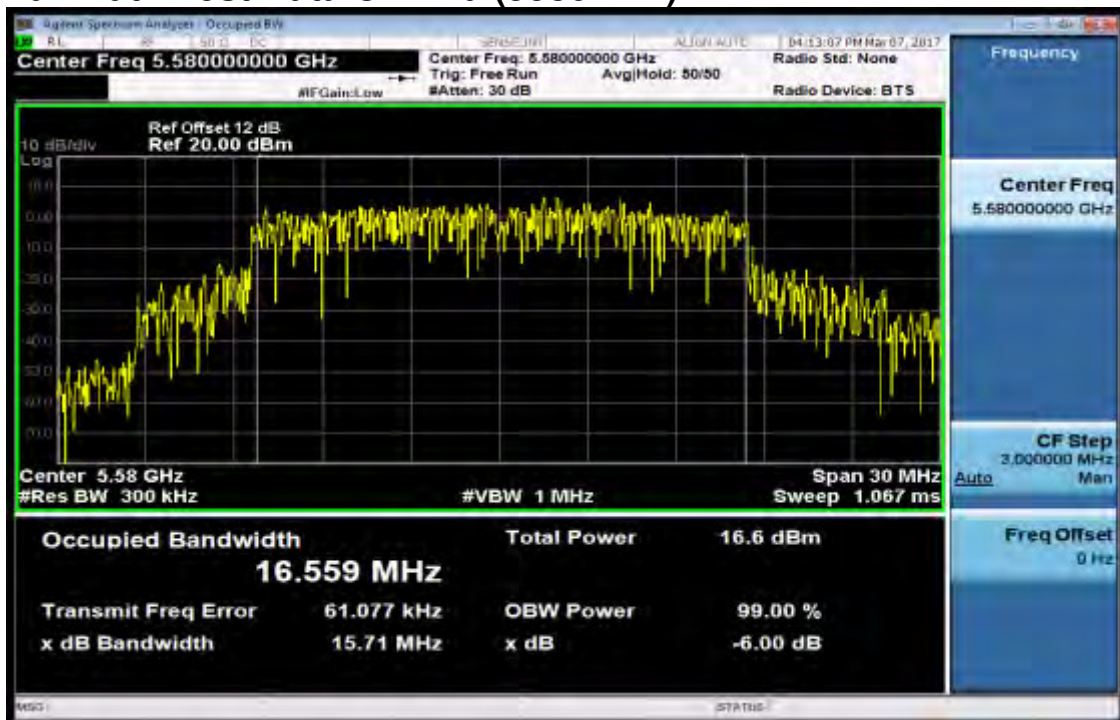
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802.11a, 5470~5725 MHz (MAIN) 99% Band Width Test Data CH-Low (5500MHz)



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



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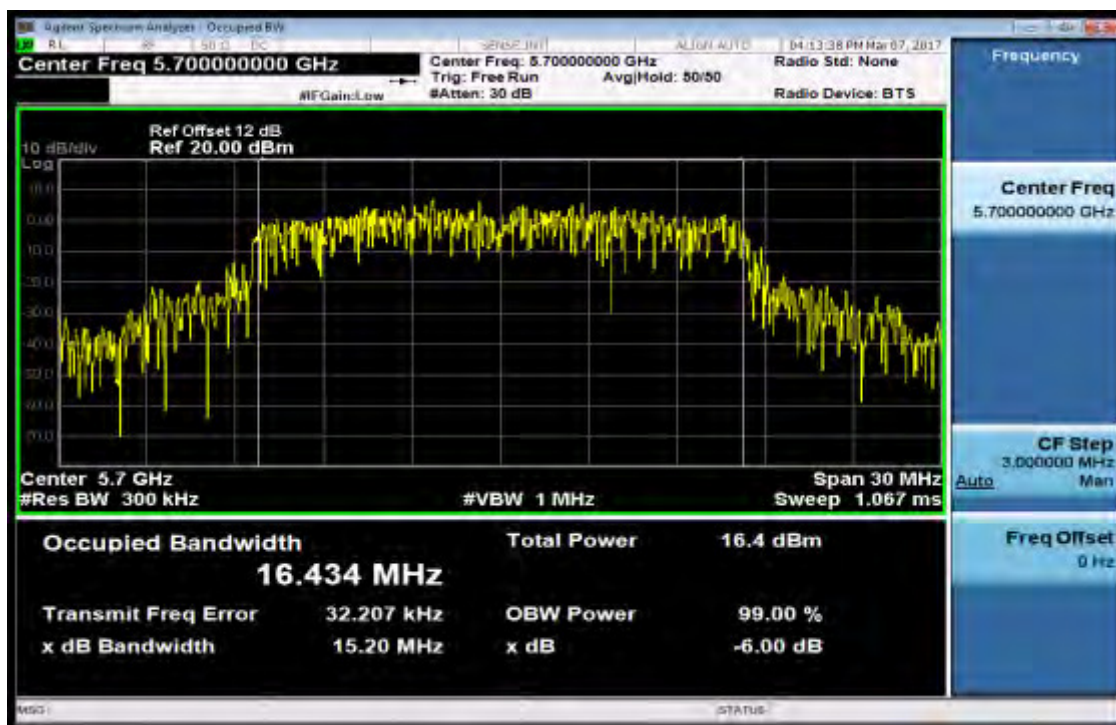
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99% Band Width Test Data CH-High (5700MHz)



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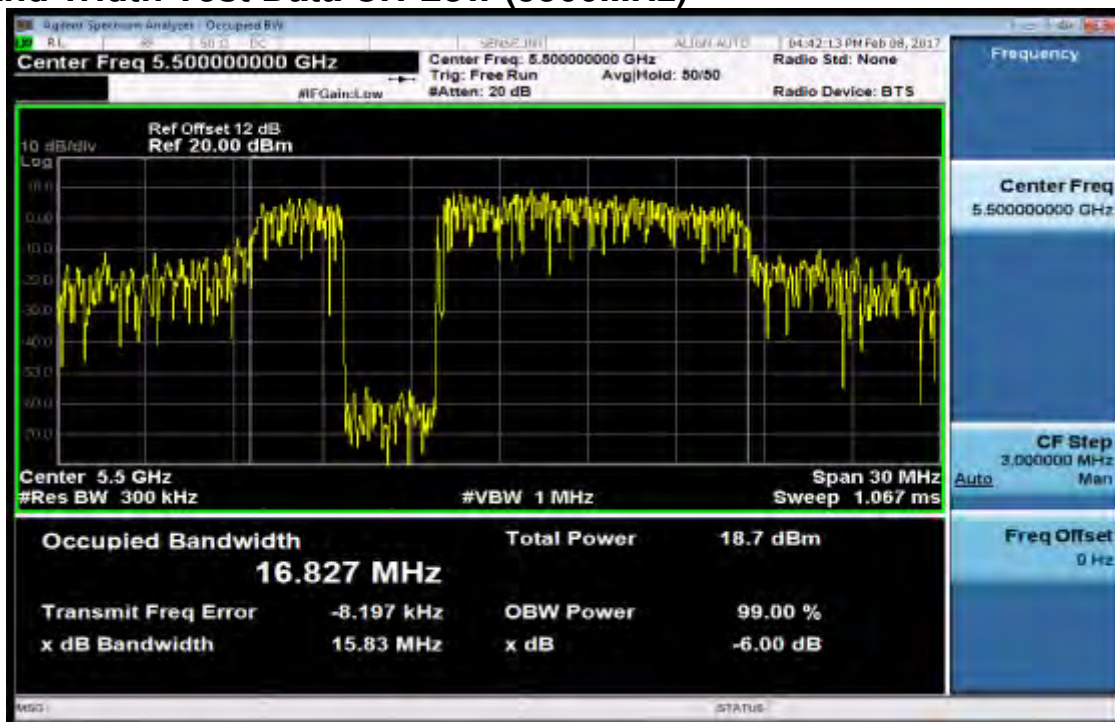
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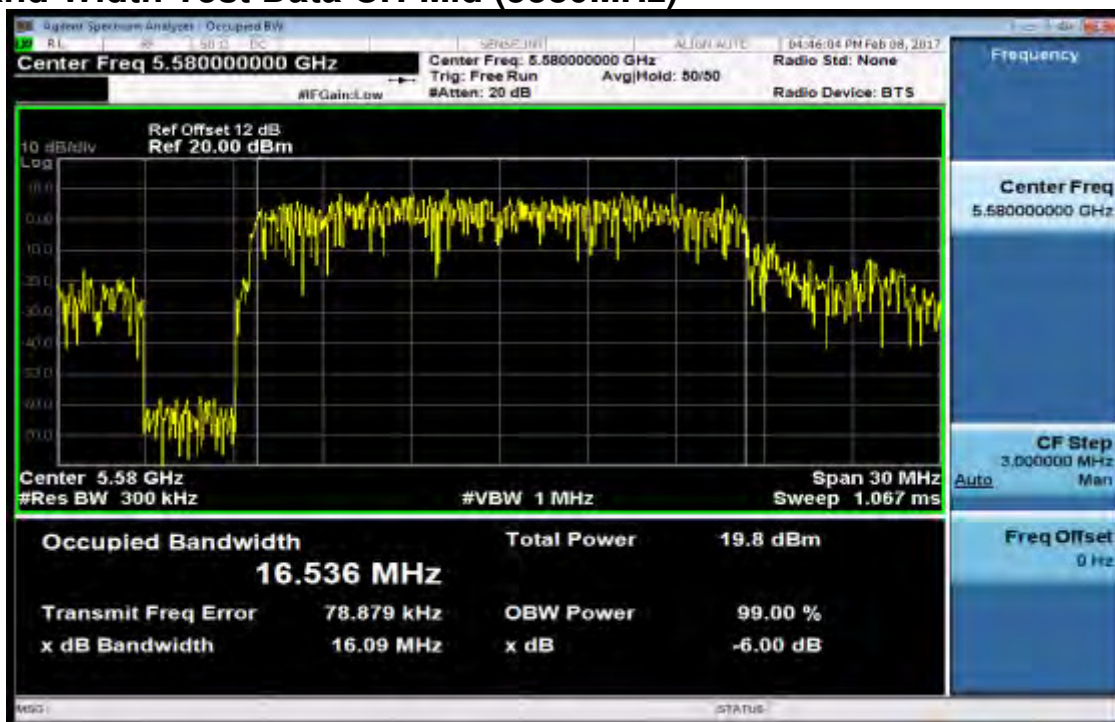
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802.11a, 5470~5725 MHz (AUX1) 99% Band Width Test Data CH-Low (5500MHz)



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



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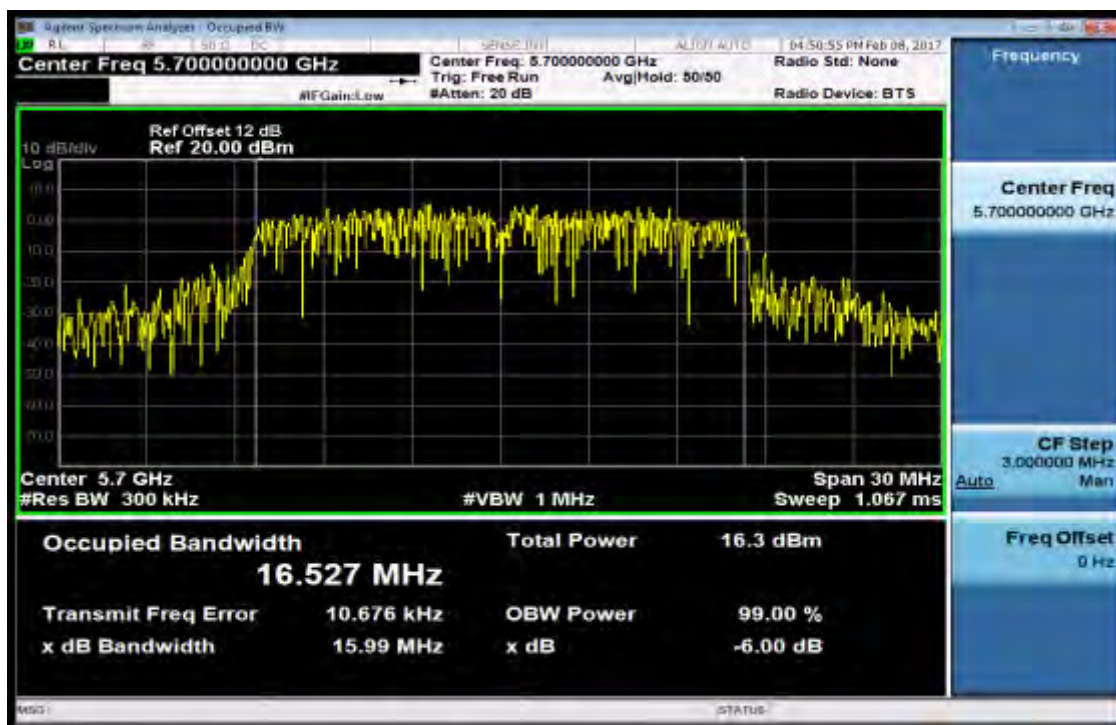
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99% Band Width Test Data CH-High (5700MHz)



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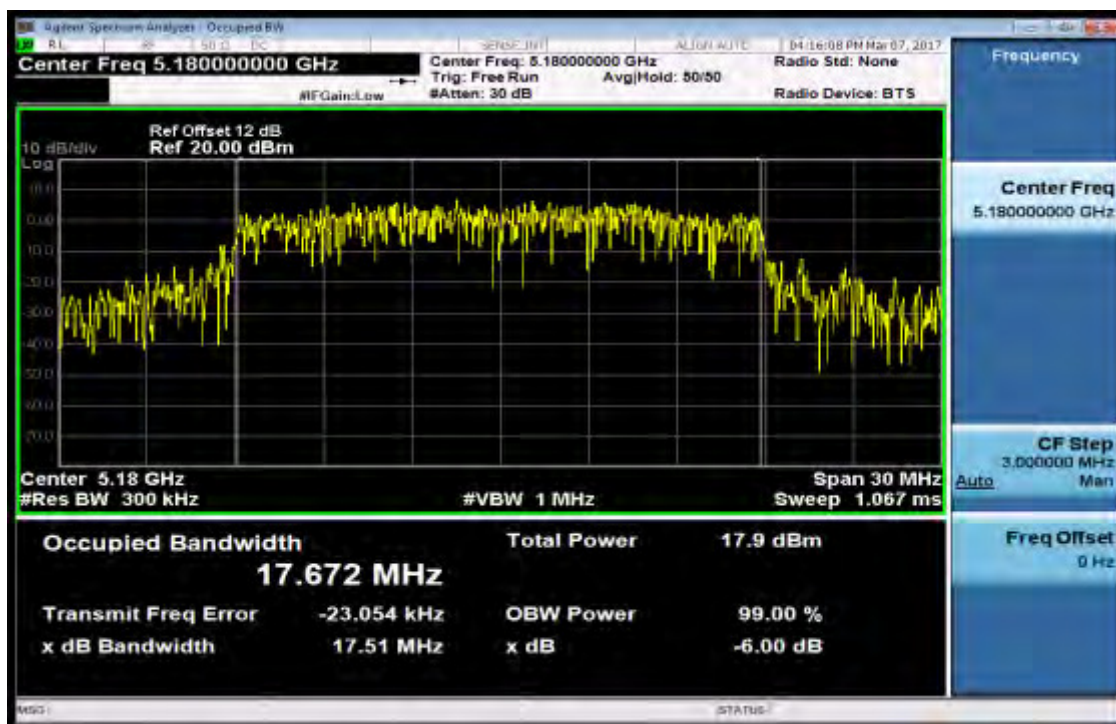
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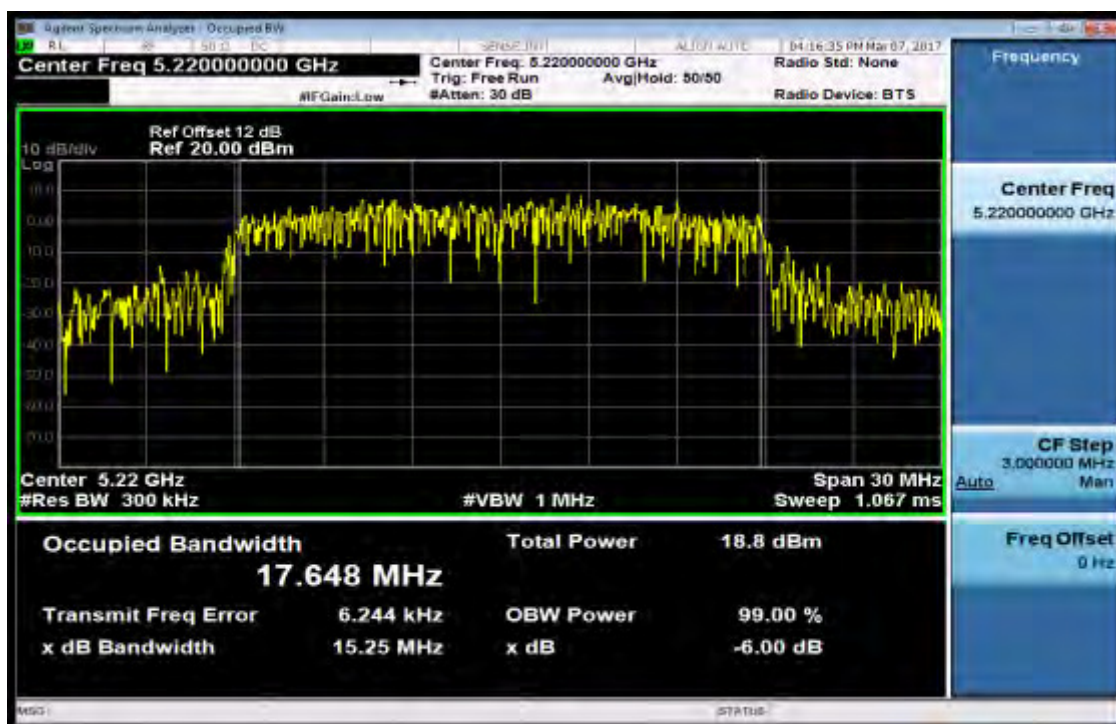
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802.11n HT20, 5150~5250 MHz (MAIN) 99% Band Width Test Data CH-Low (5180 MHz)



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



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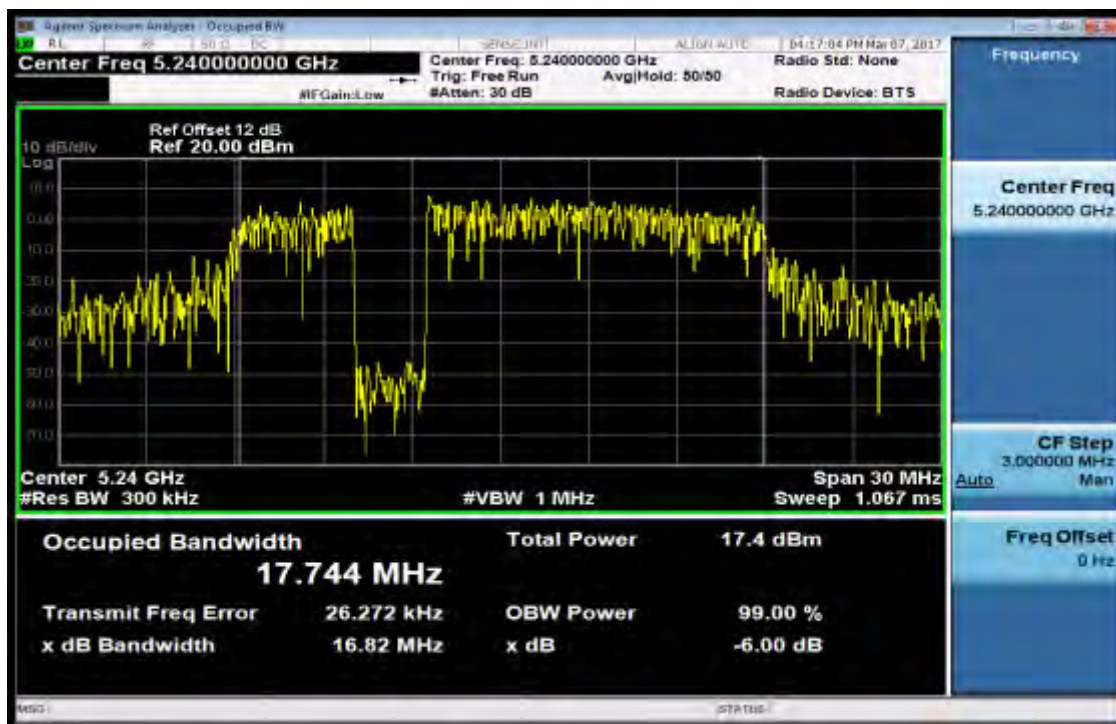
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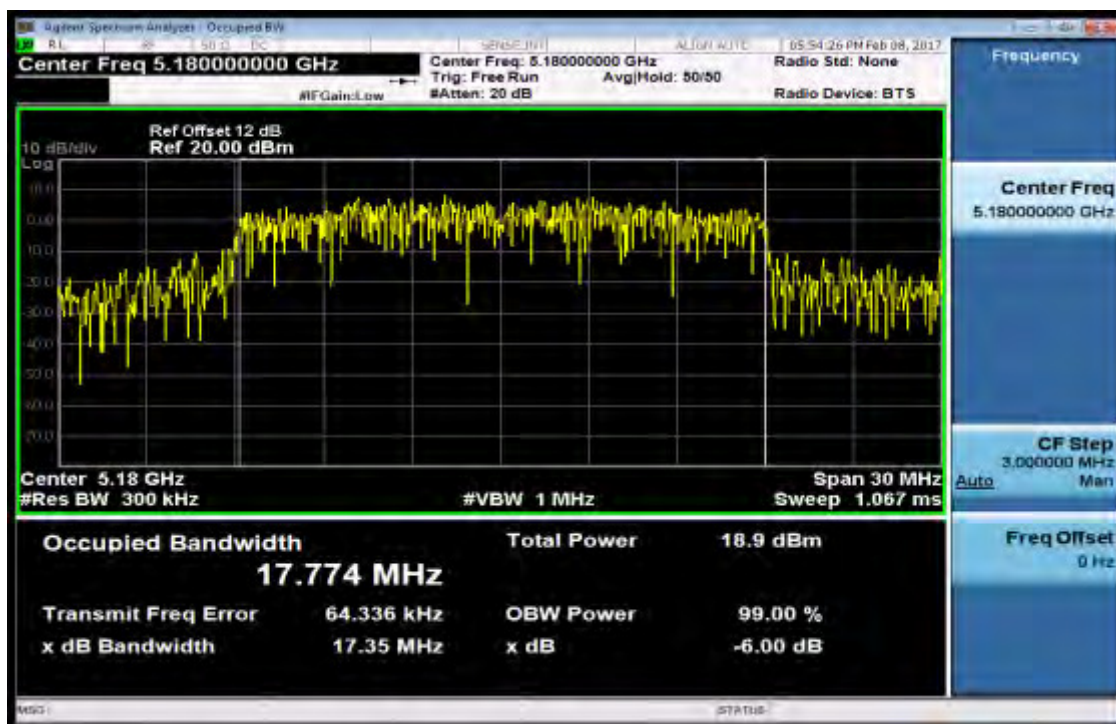
t (886-2) 2299-3279

f (886-2) 2298-0488

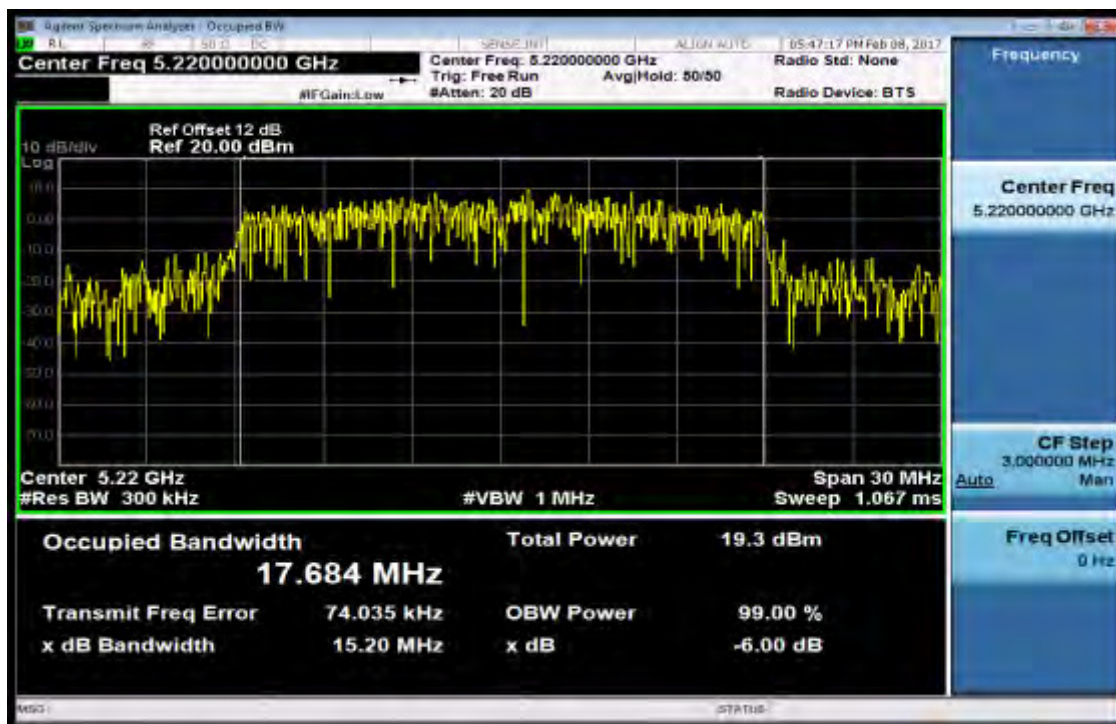
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802.11n HT20, 5150~5250 MHz (AUX1) 99% Band Width Test Data CH-Low (5180 MHz)



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



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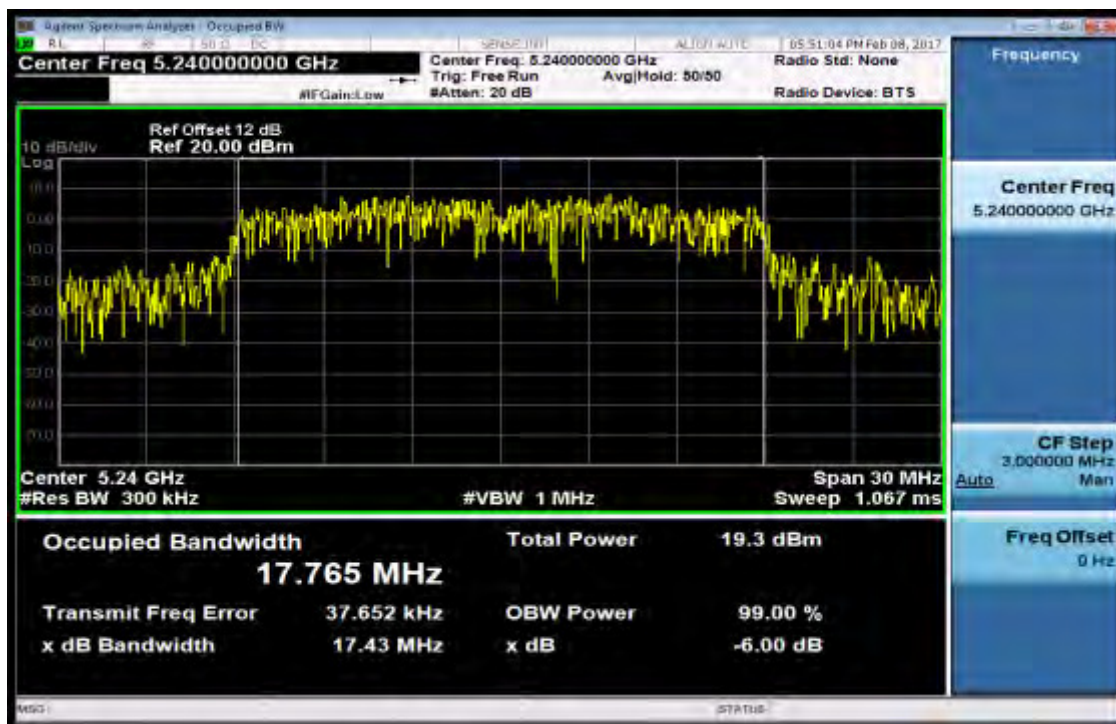
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99% Band Width Test Data CH-High (5240 MHz)



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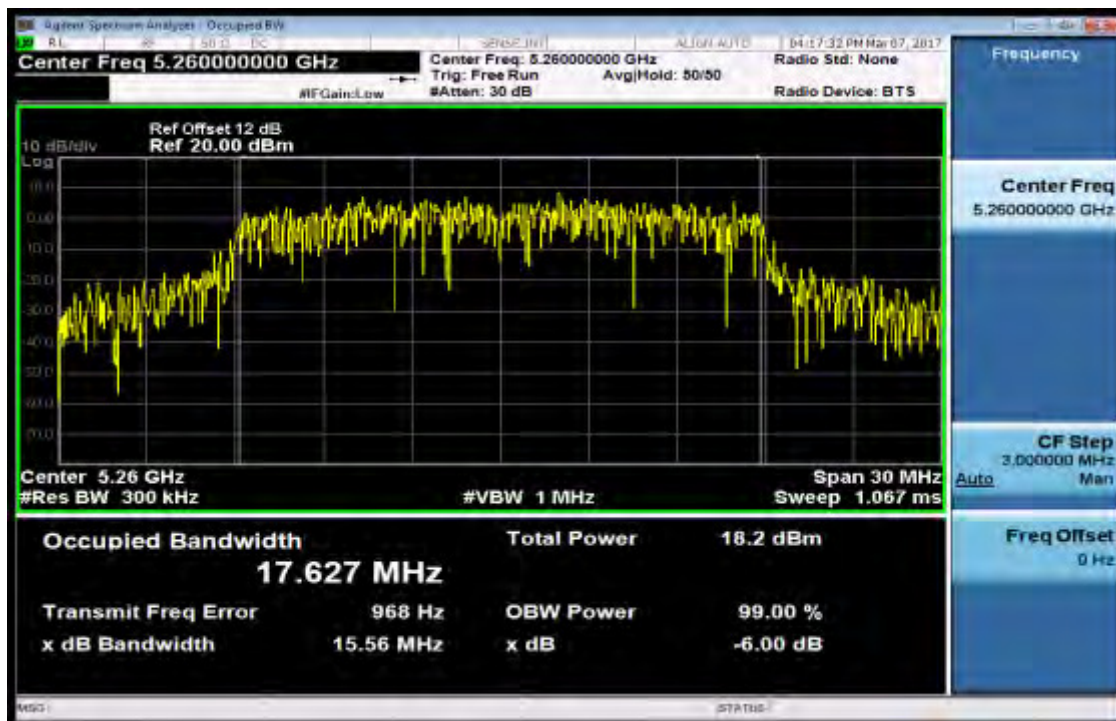
t (886-2) 2299-3279

f (886-2) 2298-0488

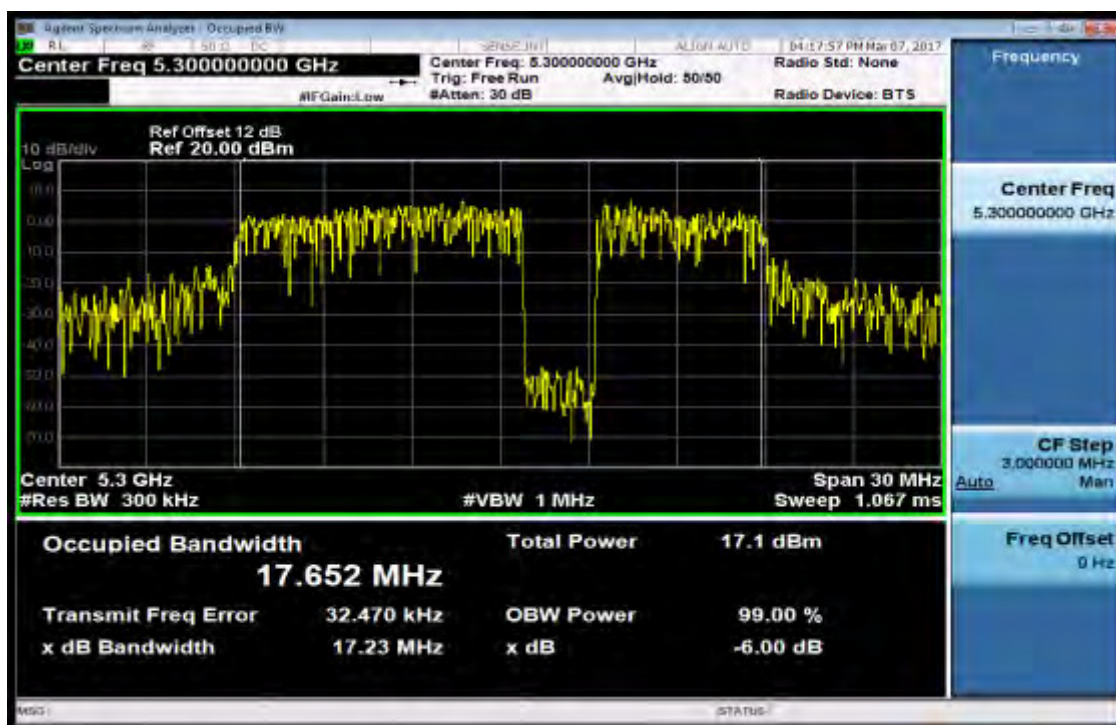
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802.11n HT20, 5250~5350 MHz (MAIN) 99% Band Width Test Data CH-Low (5260 MHz)



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



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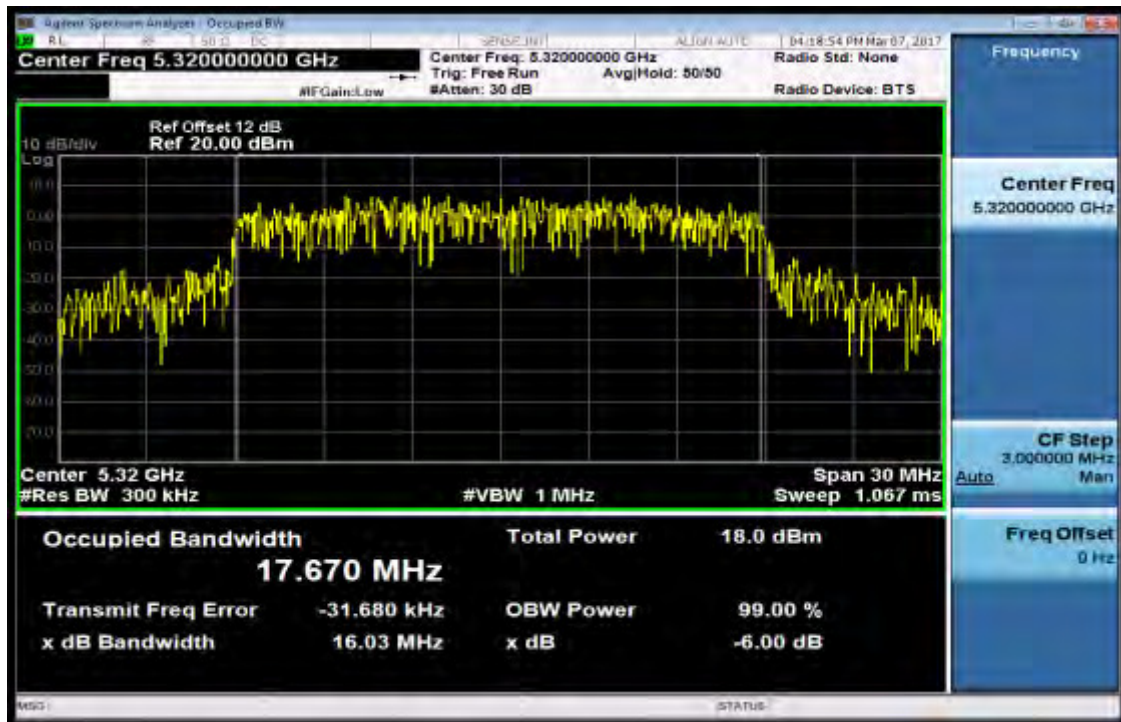
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f (886-2) 2298-0488

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



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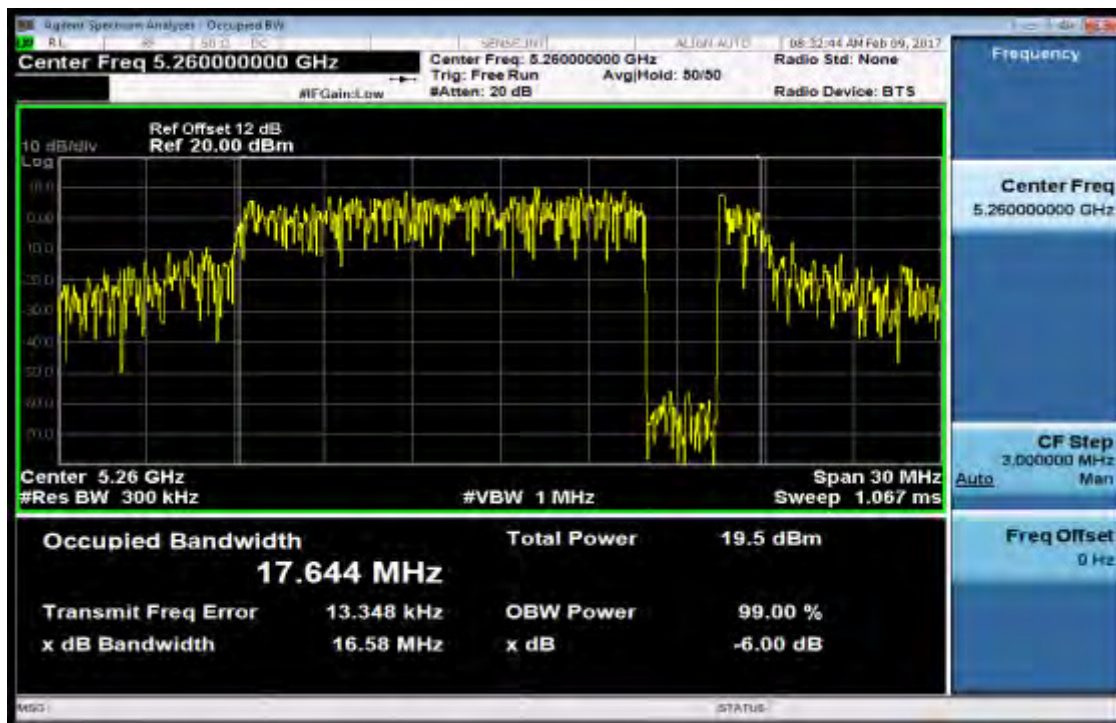
t (886-2) 2299-3279

f (886-2) 2298-0488

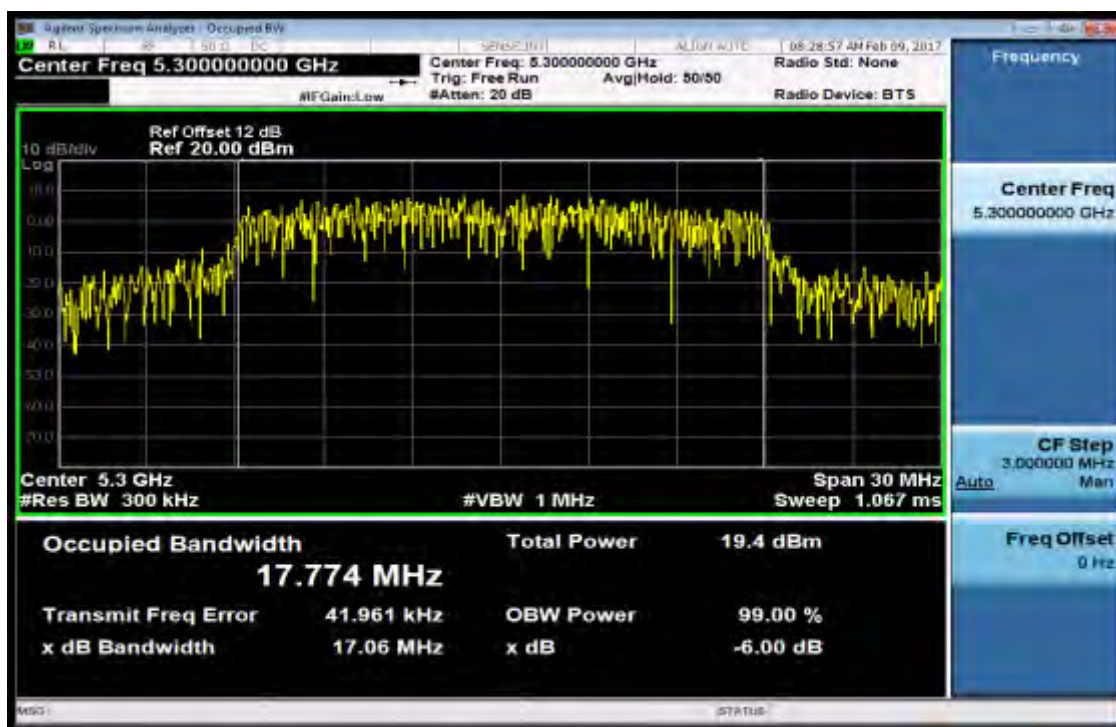
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802.11n HT20, 5250~5350 MHz (AUX1) 99% Band Width Test Data CH-Low (5260 MHz)



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



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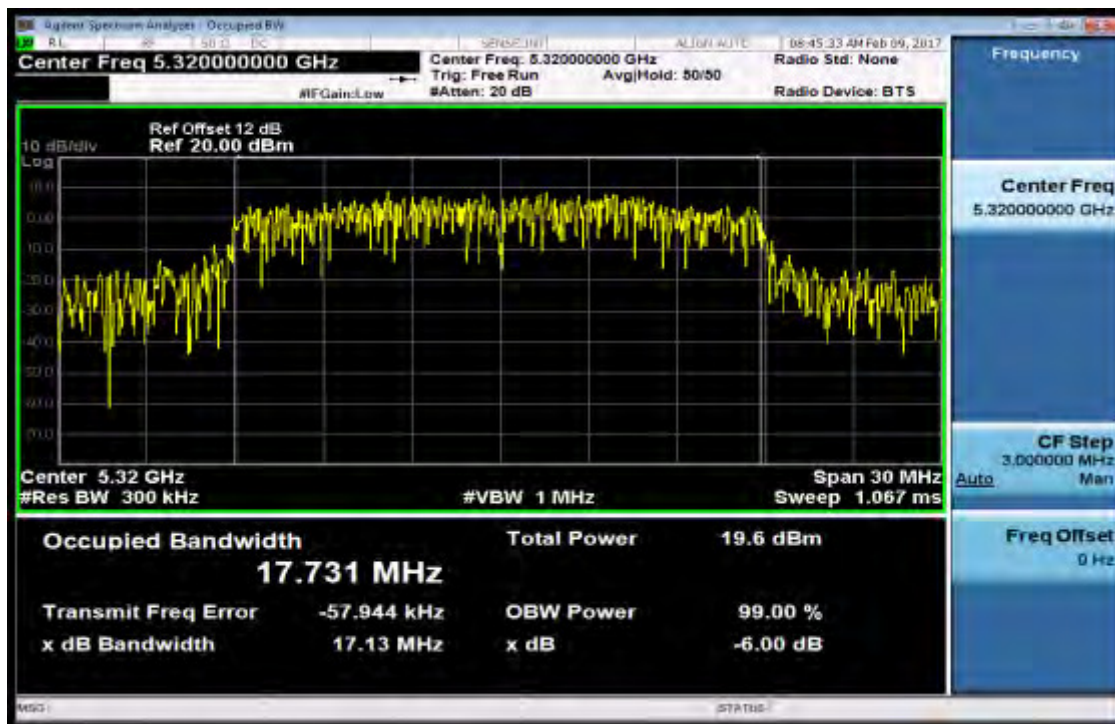
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99% Band Width Test Data CH-High (5320 MHz)



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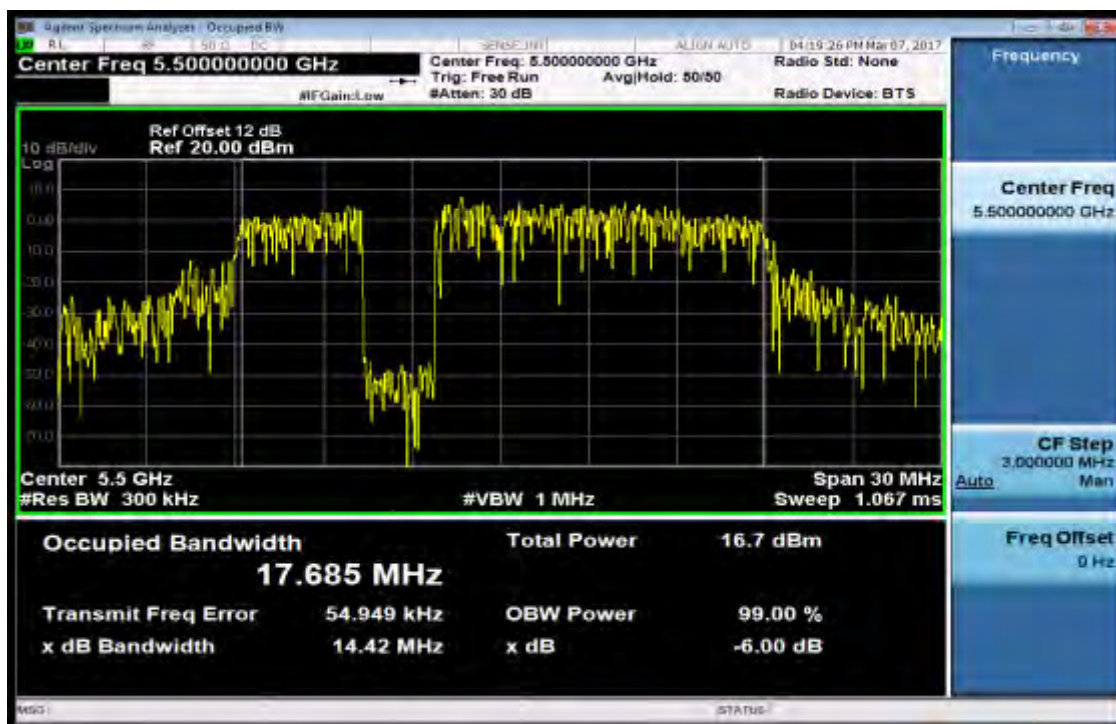
t (886-2) 2299-3279

f (886-2) 2298-0488

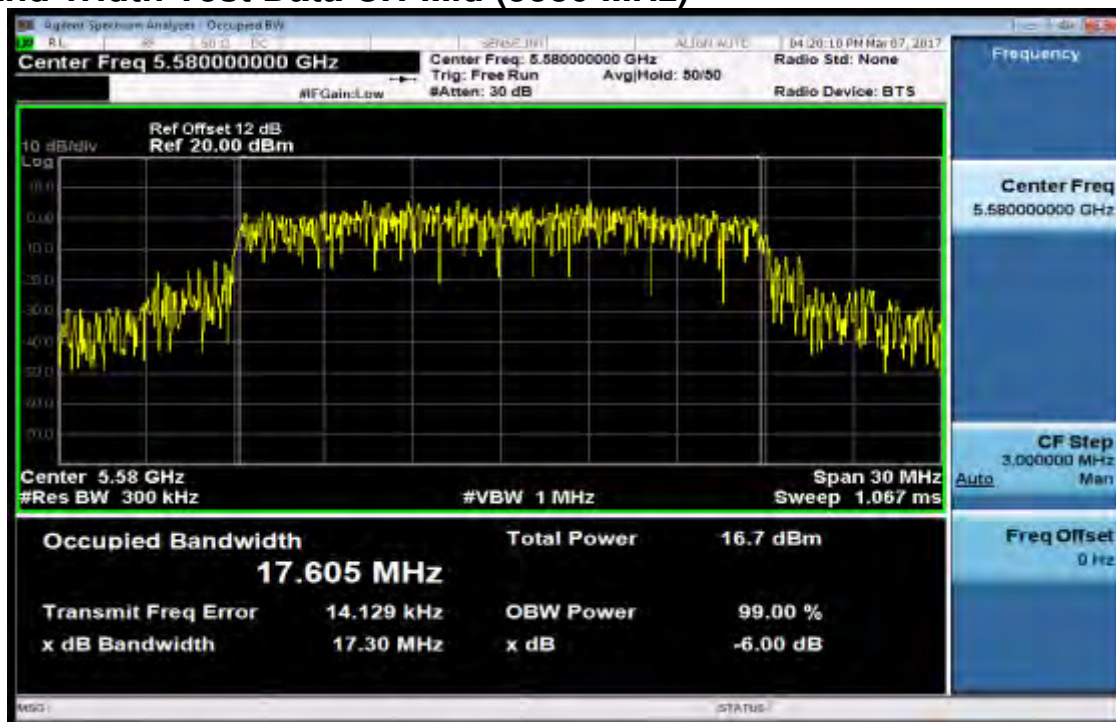
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Member of SGS Group

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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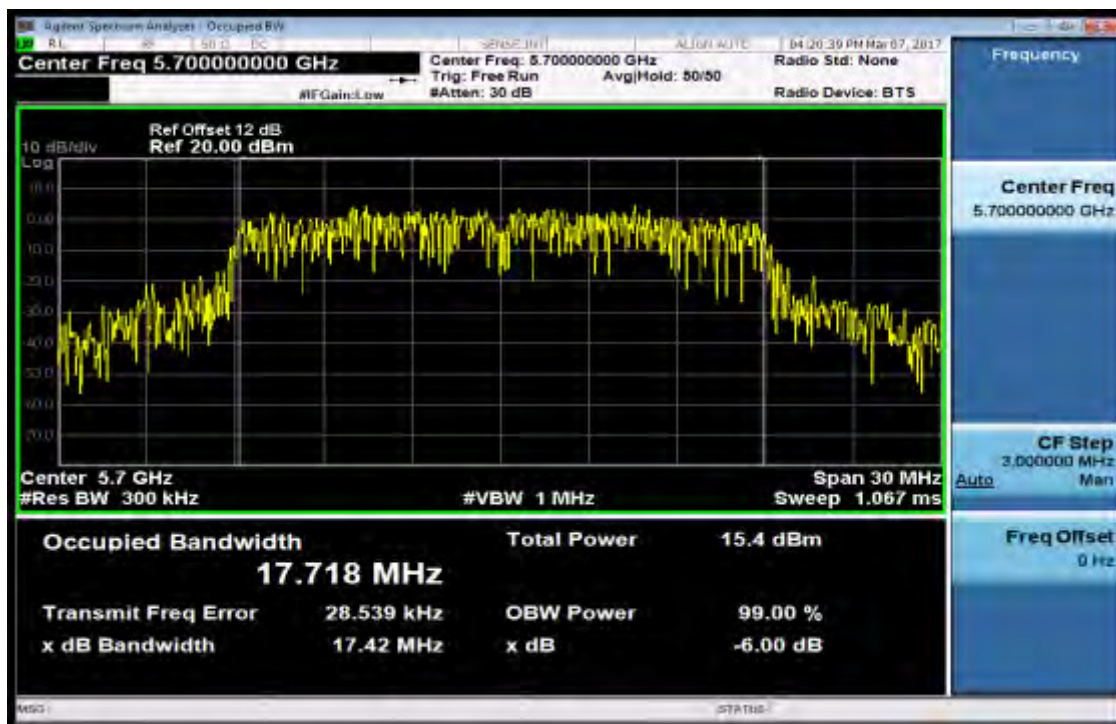
t (886-2) 2299-3279

f (886-2) 2298-0488

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



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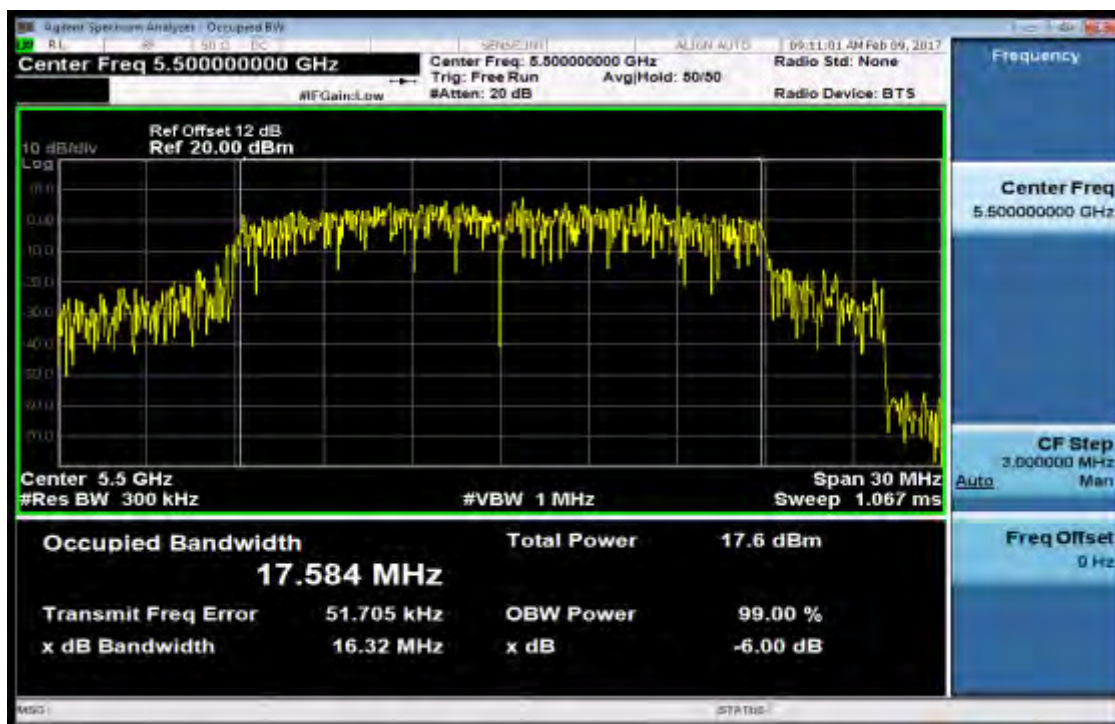
t (886-2) 2299-3279

f (886-2) 2298-0488

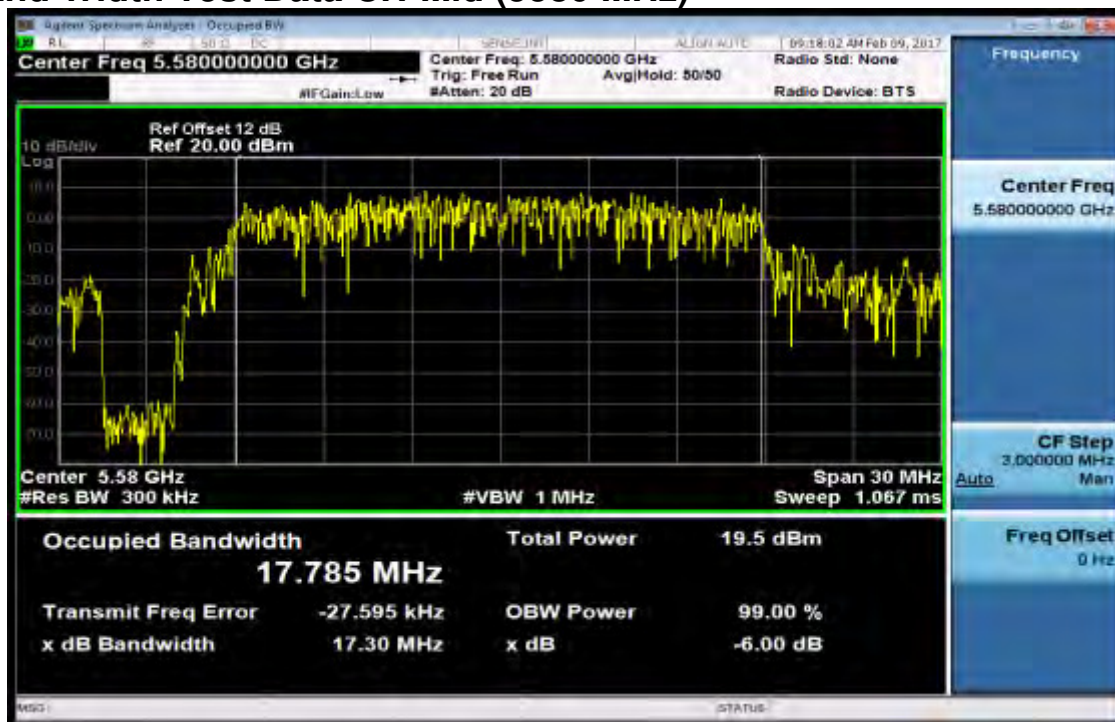
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802.11n HT20, 5470~5725 MHz (AUX1) 99% Band Width Test Data CH-Low (5500 MHz)



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



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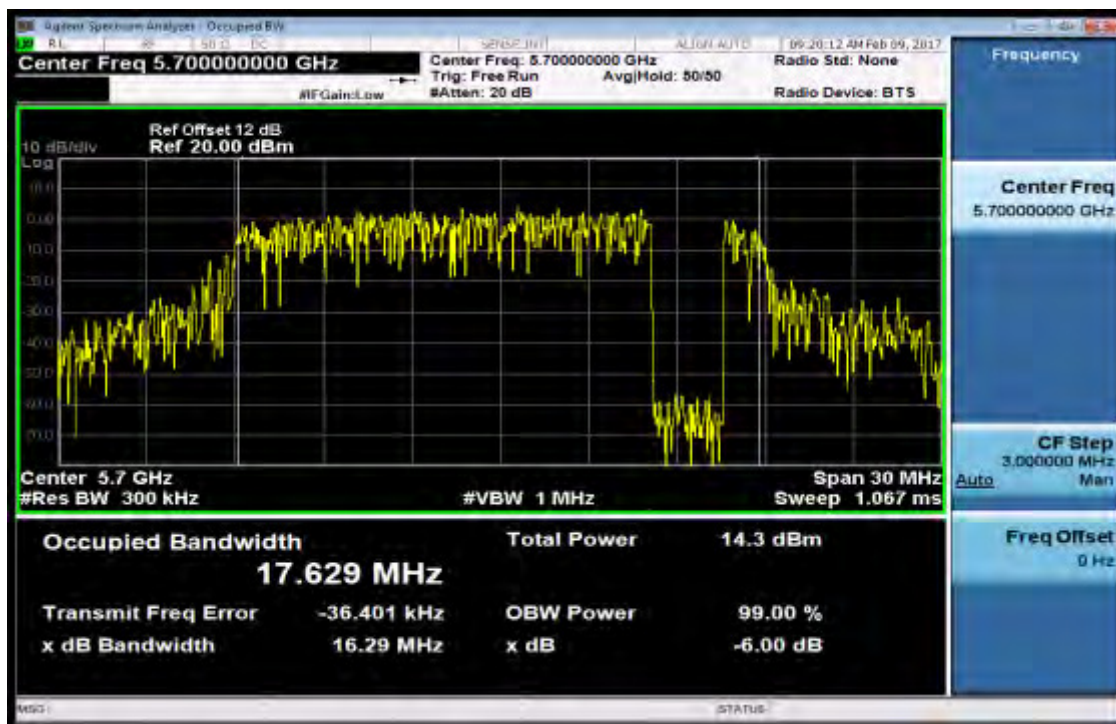
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99% Band Width Test Data CH-High (5700 MHz)



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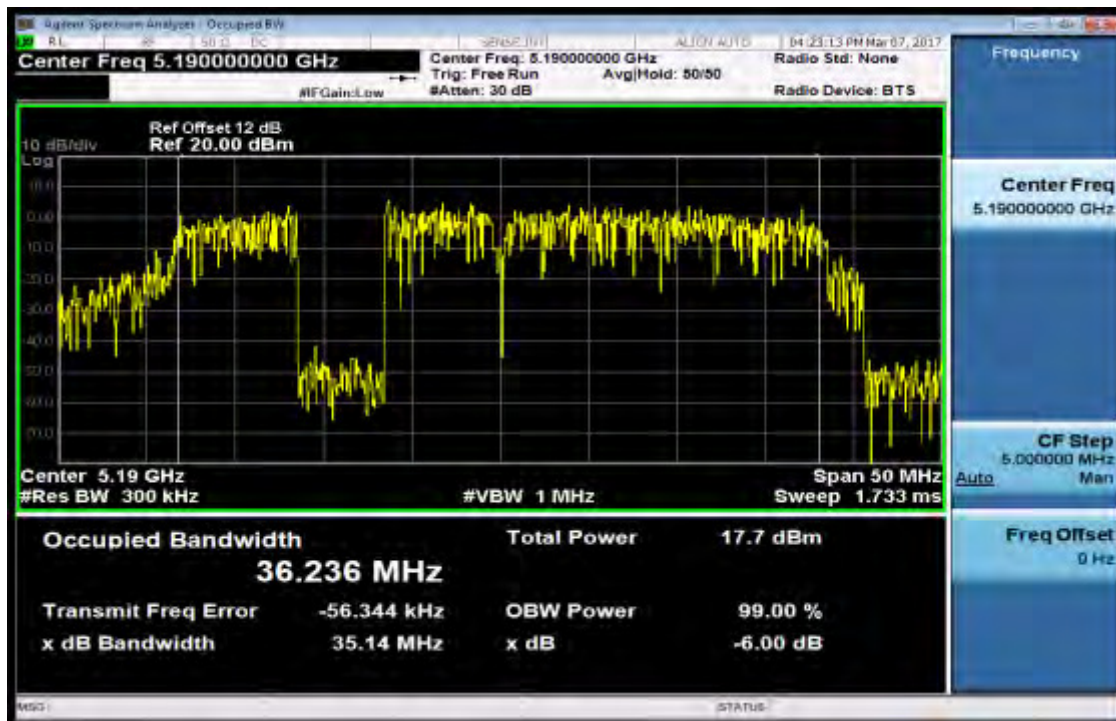
f (886-2) 2298-0488

www.tw.sgs.com

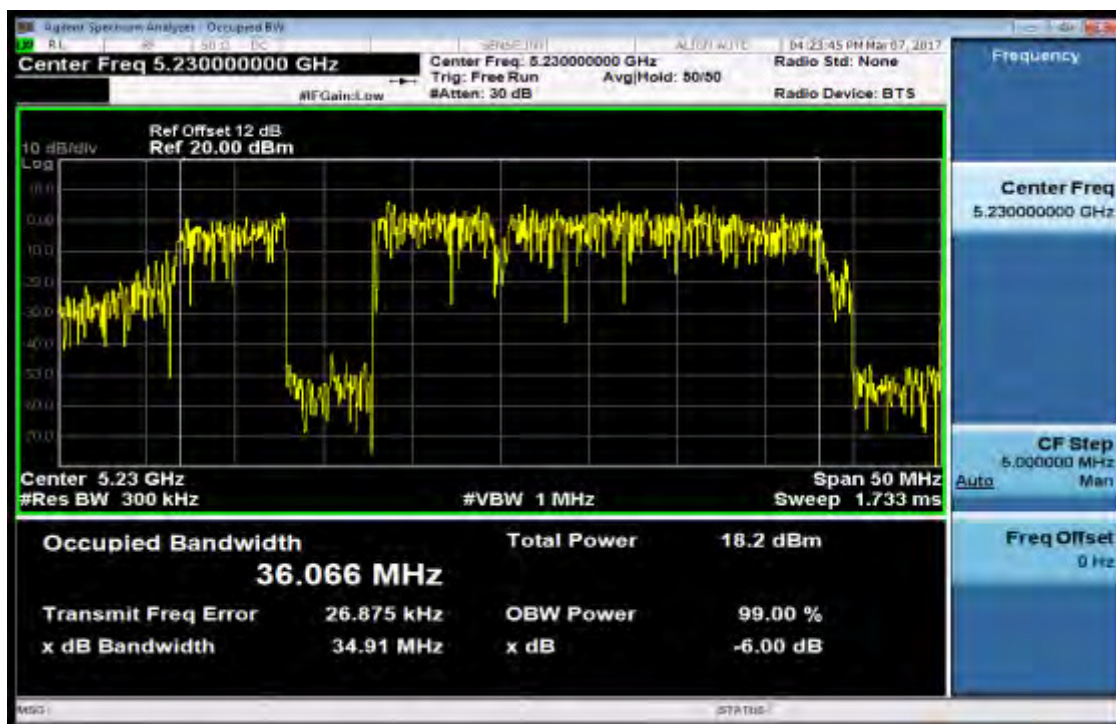
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802.11n HT40, 5150~5250 MHz (MAIN)

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



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



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t (886-2) 2299-3279

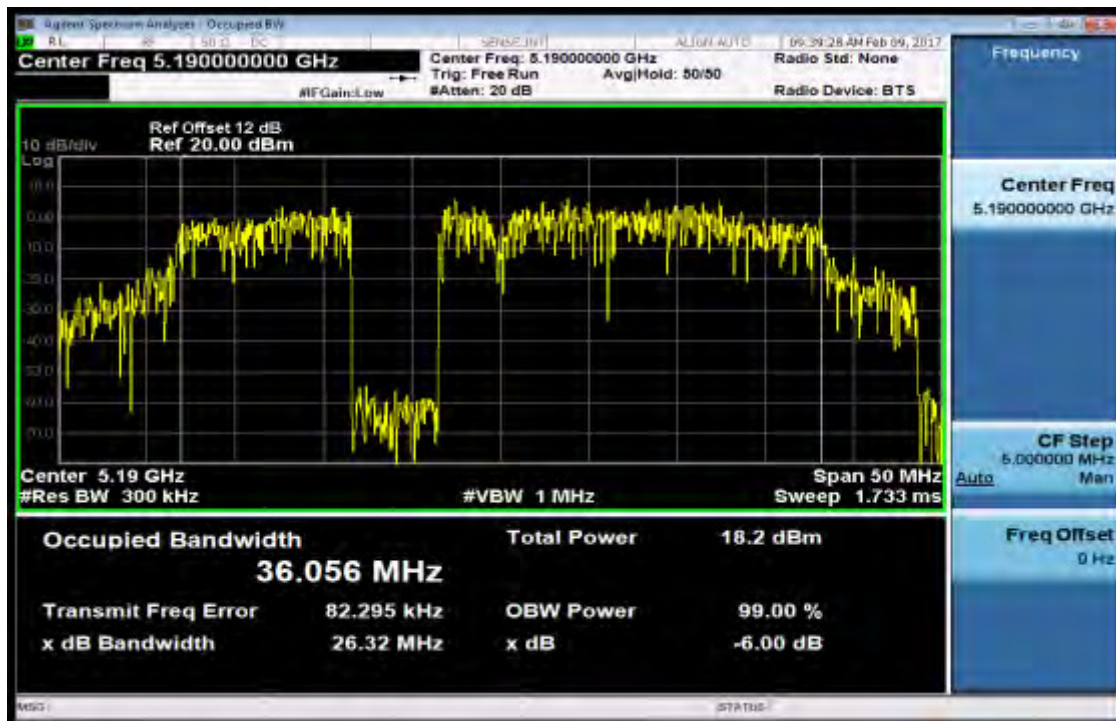
f (886-2) 2298-0488

www.tw.sgs.com

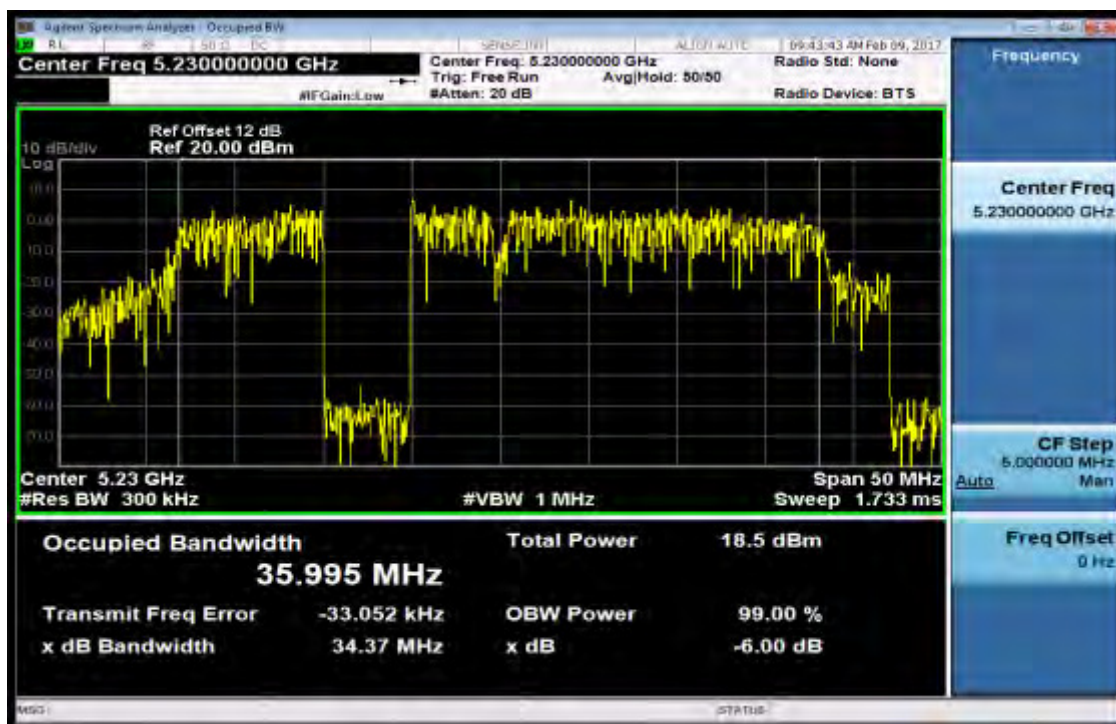
Member of SGS Group

802.11n HT40, 5150~5250 MHz (AUX1)

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



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



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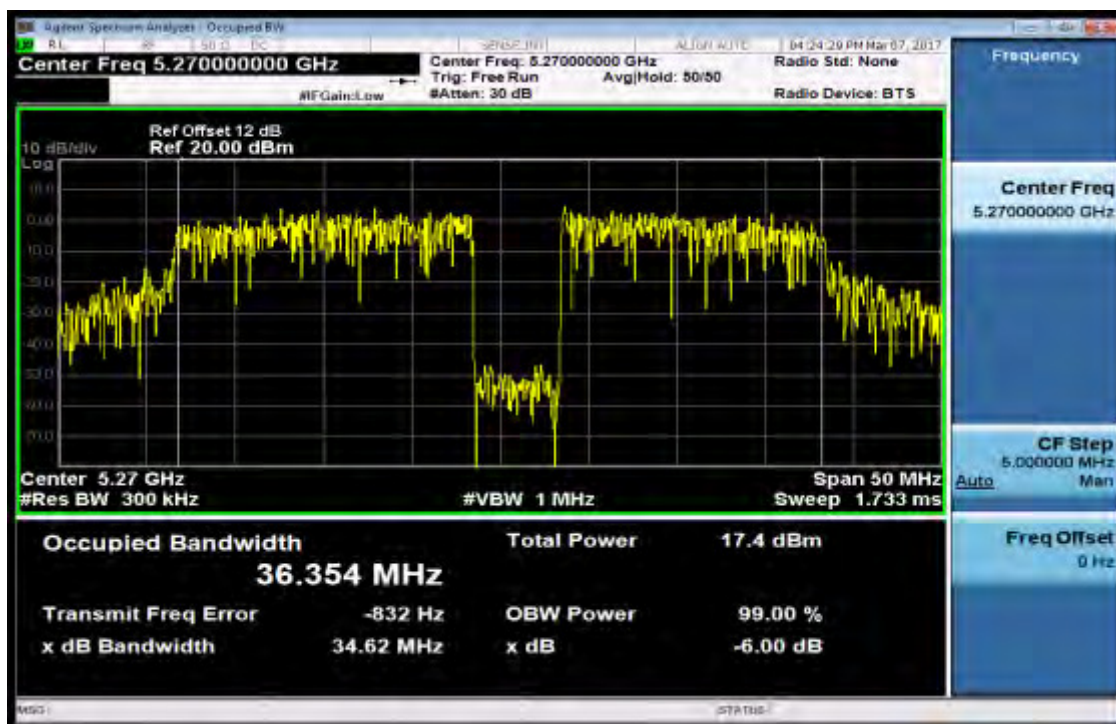
t (886-2) 2299-3279

f (886-2) 2298-0488

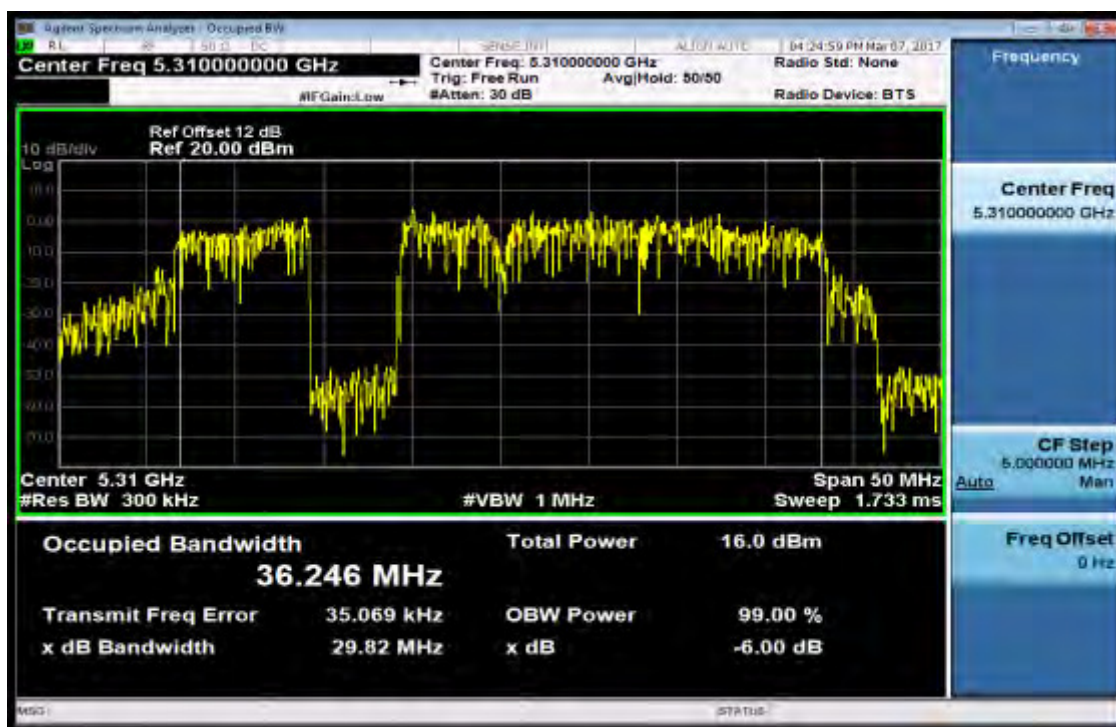
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Member of SGS Group

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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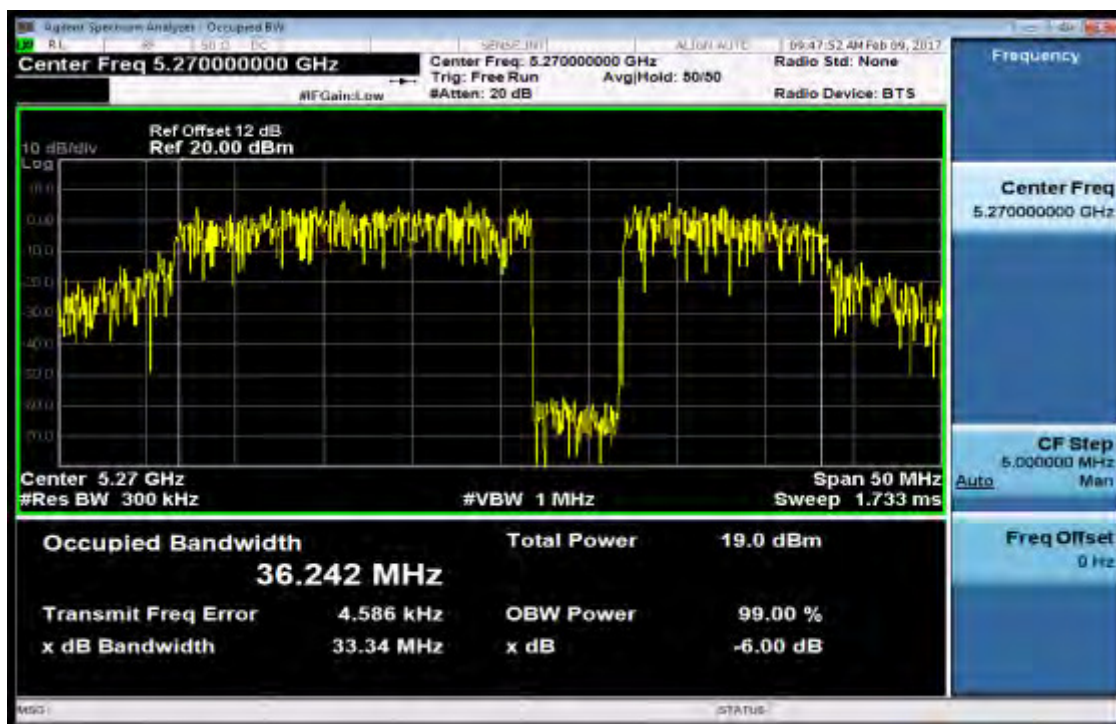
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f (886-2) 2298-0488

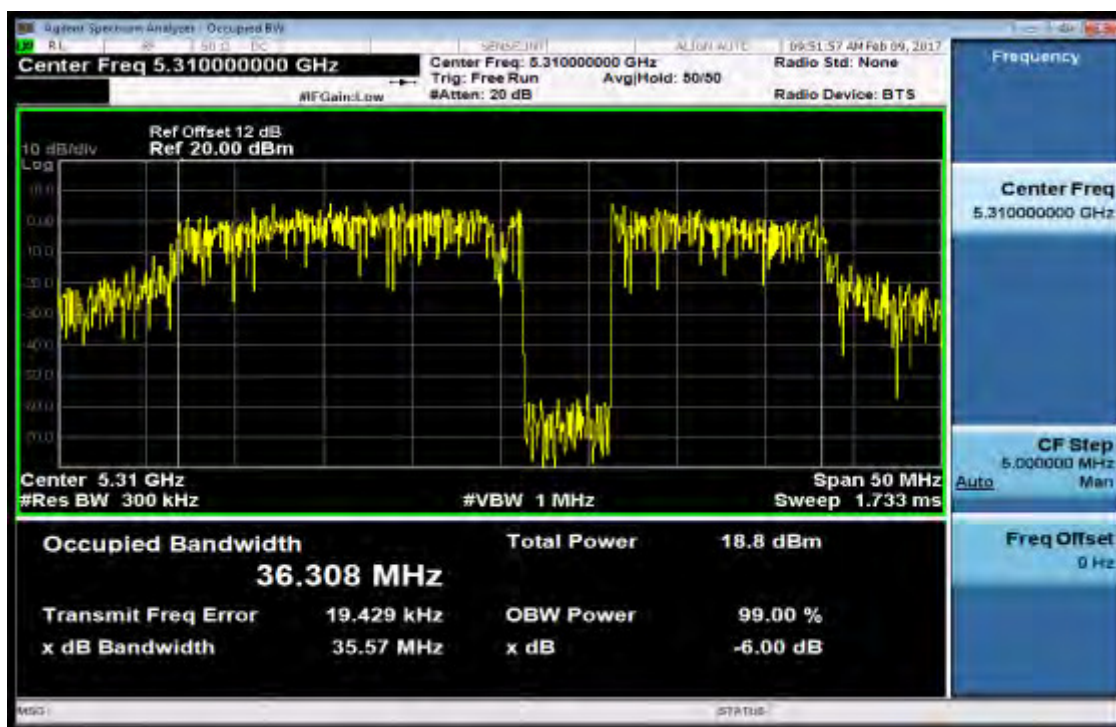
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802.11n HT40, 5250~5350 MHz (AUX1) 99% Band Width Test Data CH-Low (5270 MHz)



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



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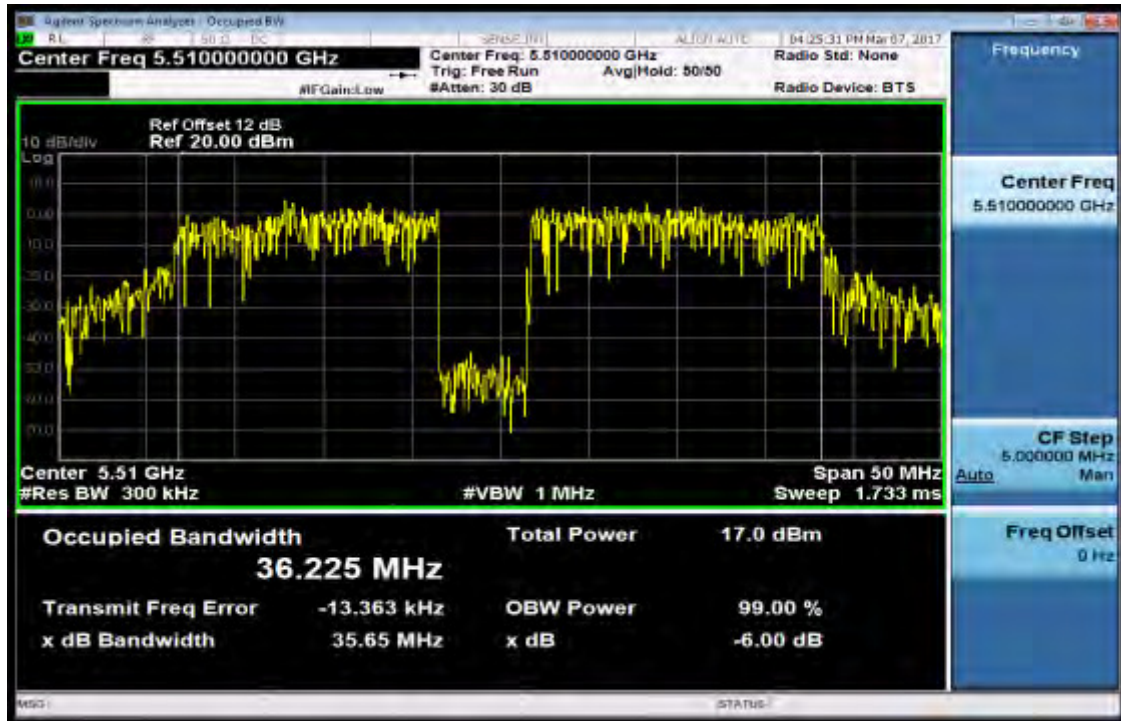
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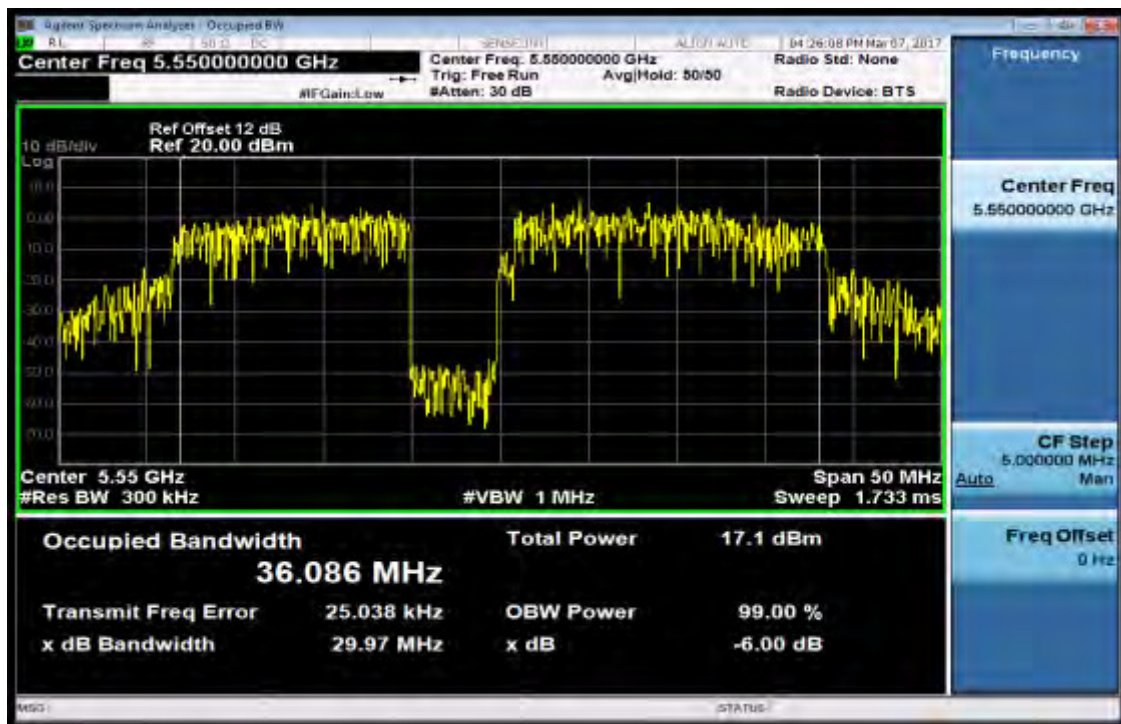
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802.11n HT40, 5470~5725 MHz (MAIN) 99% Band Width Test Data CH-Low (5510 MHz)



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



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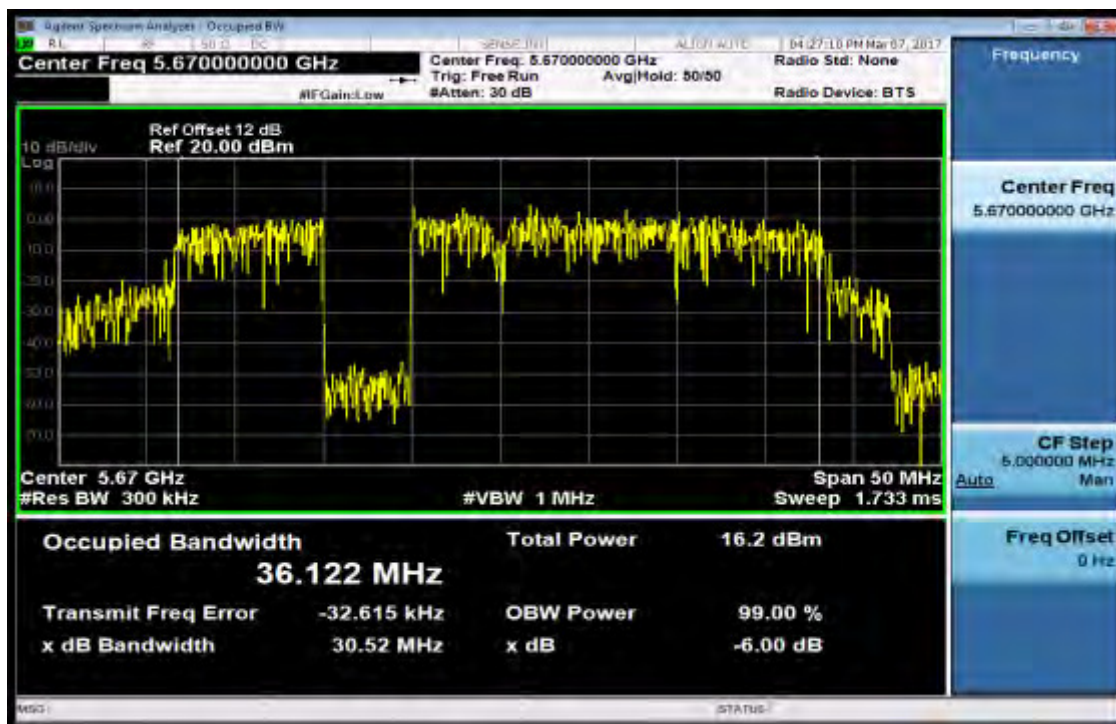
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99% Band Width Test Data CH-High (5670 MHz)



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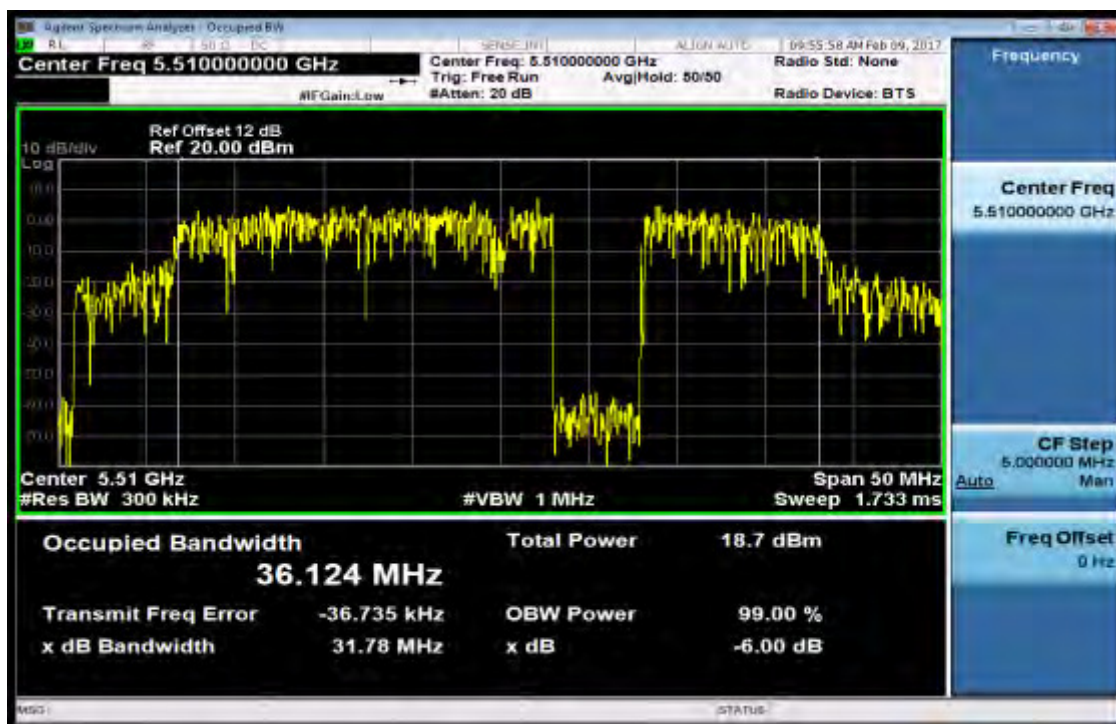
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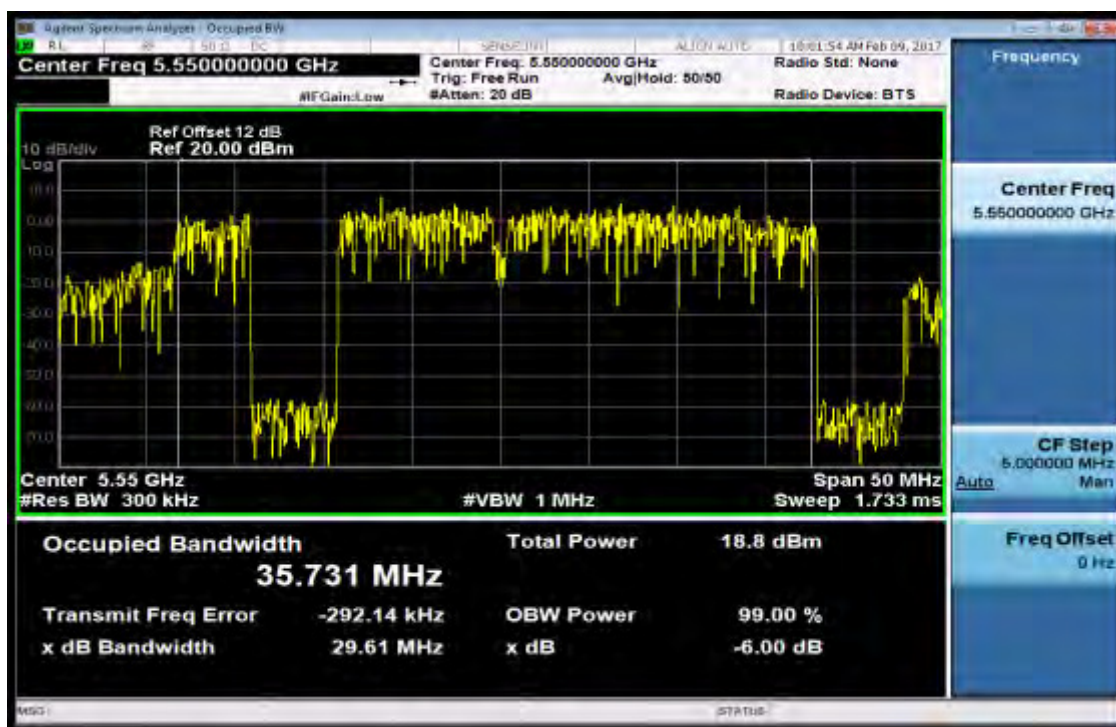
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802.11n HT40, 5470~5725 MHz (AUX1) 99% Band Width Test Data CH-Low (5510 MHz)



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



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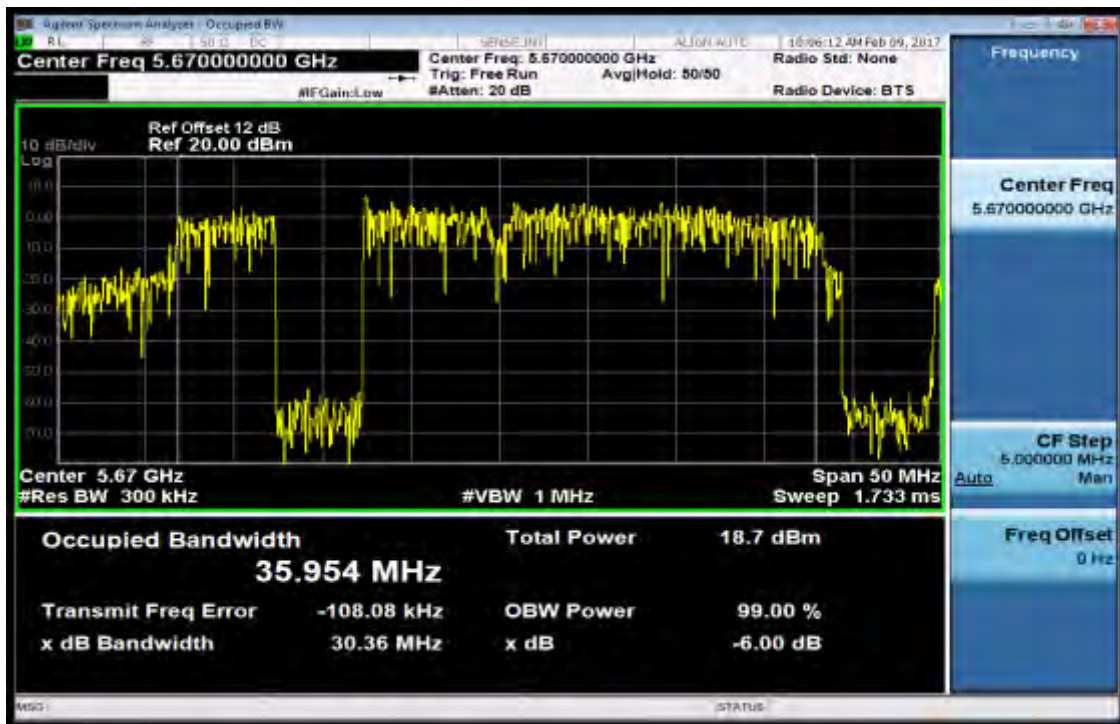
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99% Band Width Test Data CH-High (5670 MHz)



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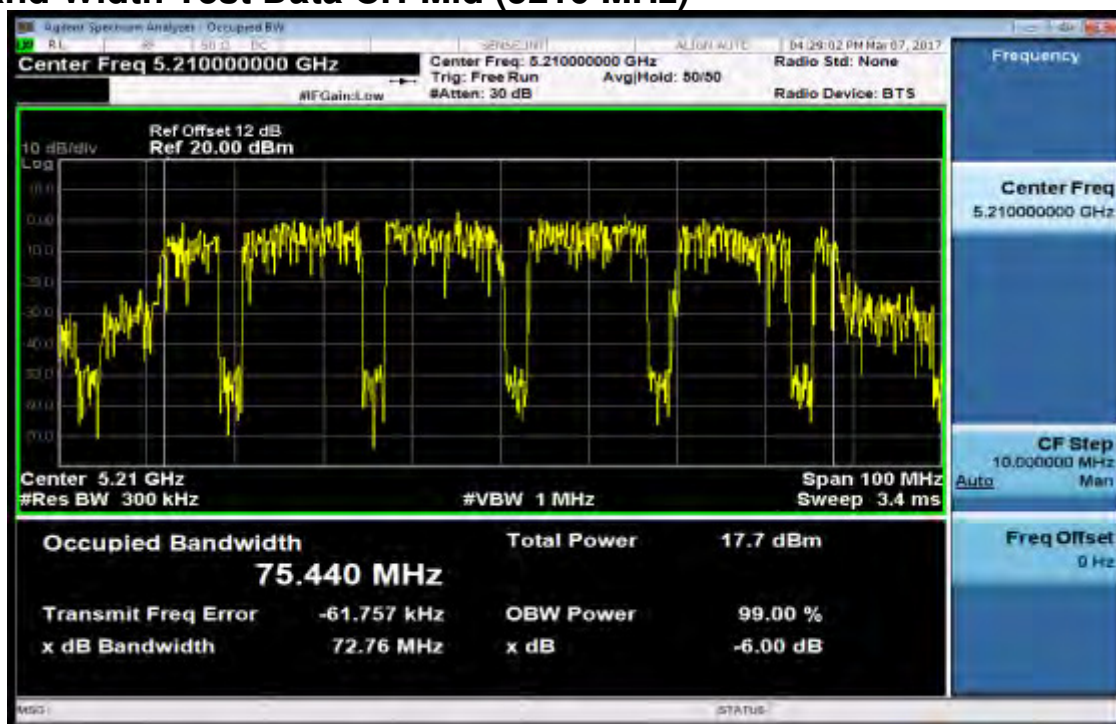
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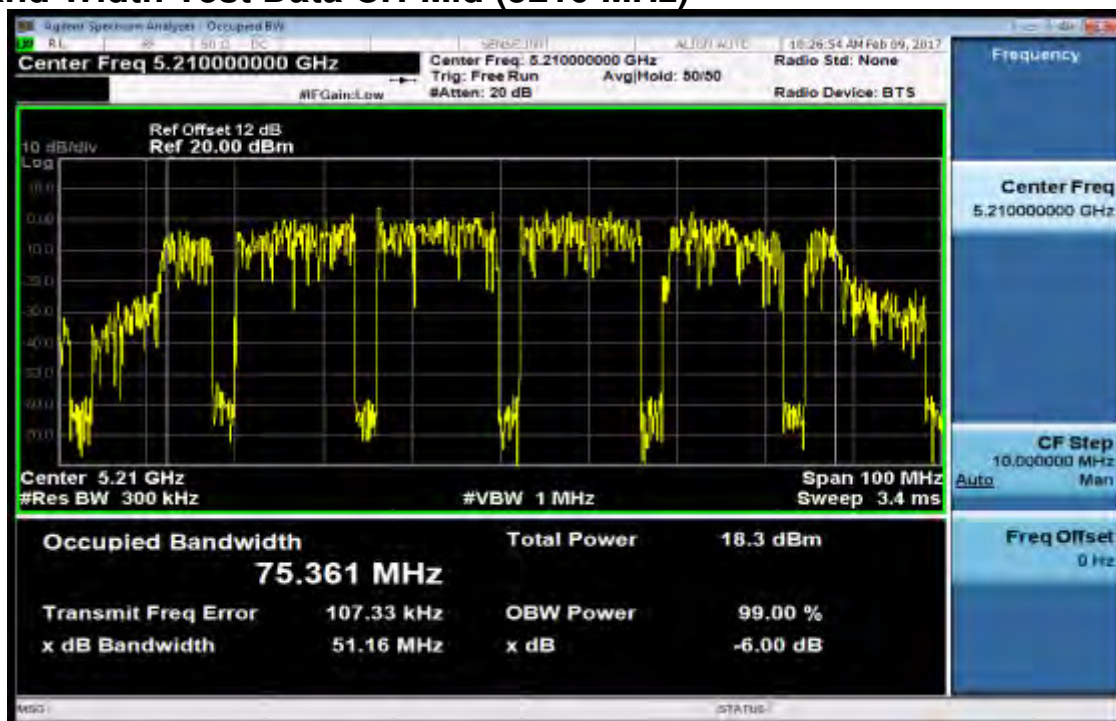
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802.11ac VHT80, 5150~5250 MHz (MAIN) 99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (AUX1) 99% Band Width Test Data CH-Mid (5210 MHz)



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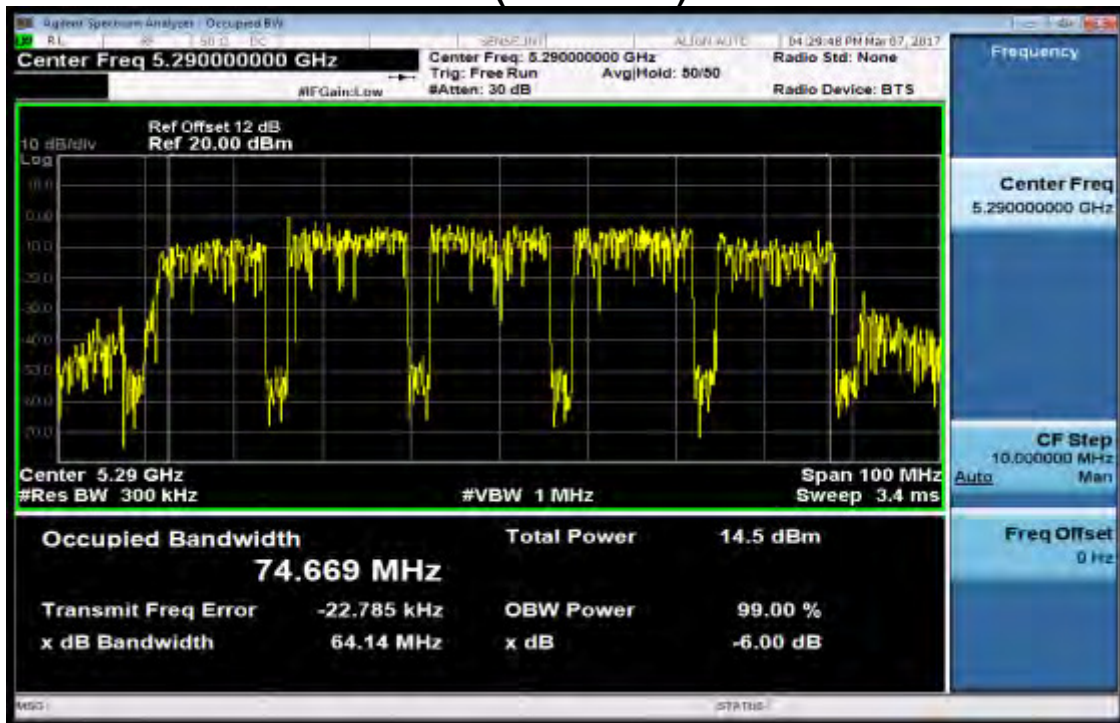
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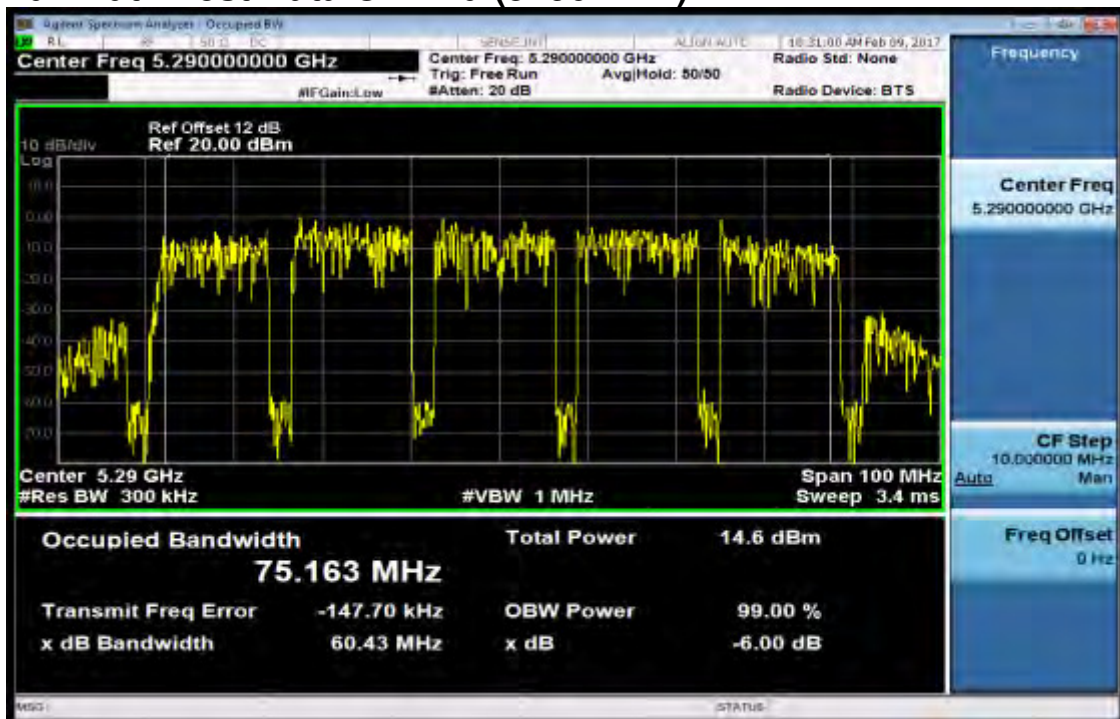
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802.11ac VHT80, 5250~5350 MHz (MAIN) 99% Band Width Test Data CH-Mid (5290 MHz)



802.11ac VHT80, 5250~5350 MHz (AUX1) 99% Band Width Test Data CH-Mid (5290 MHz)



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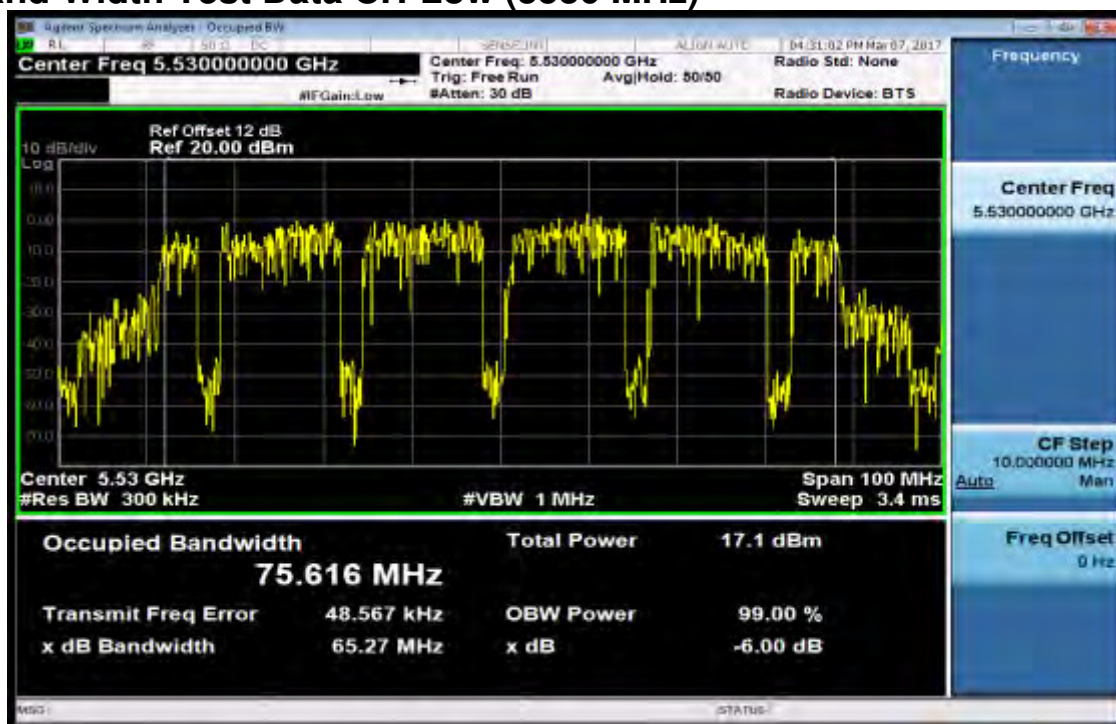
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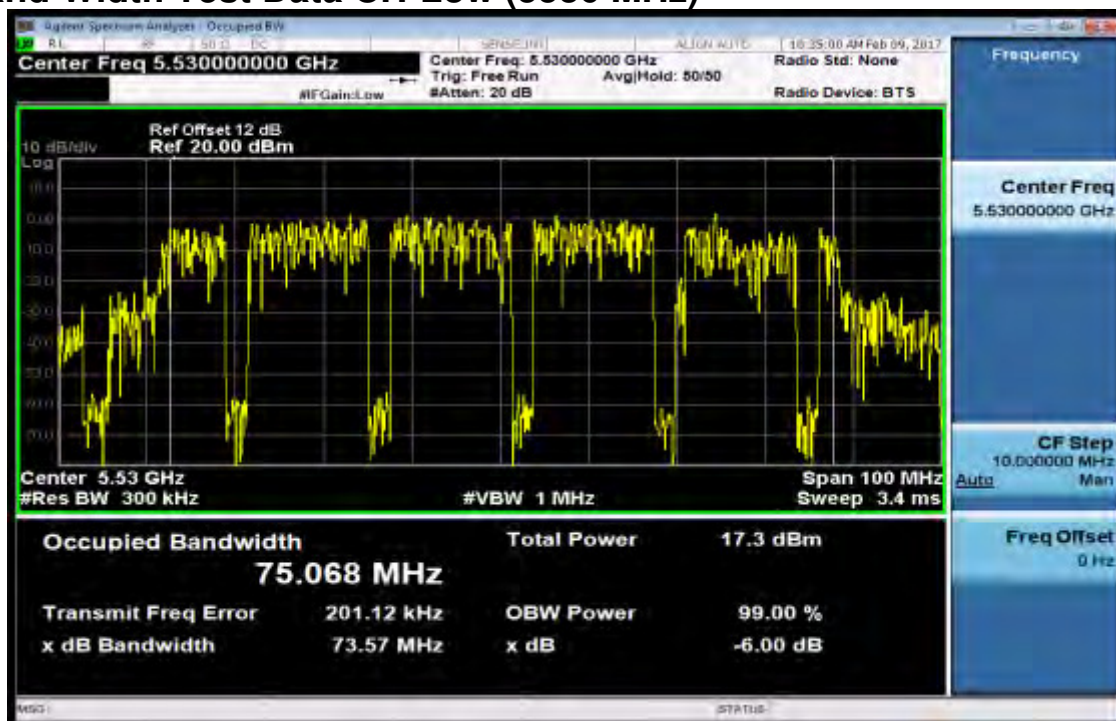
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802.11ac VHT80, 5470~5725 MHz (MAIN) 99% Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (AUX1) 99% Band Width Test Data CH-Low (5530 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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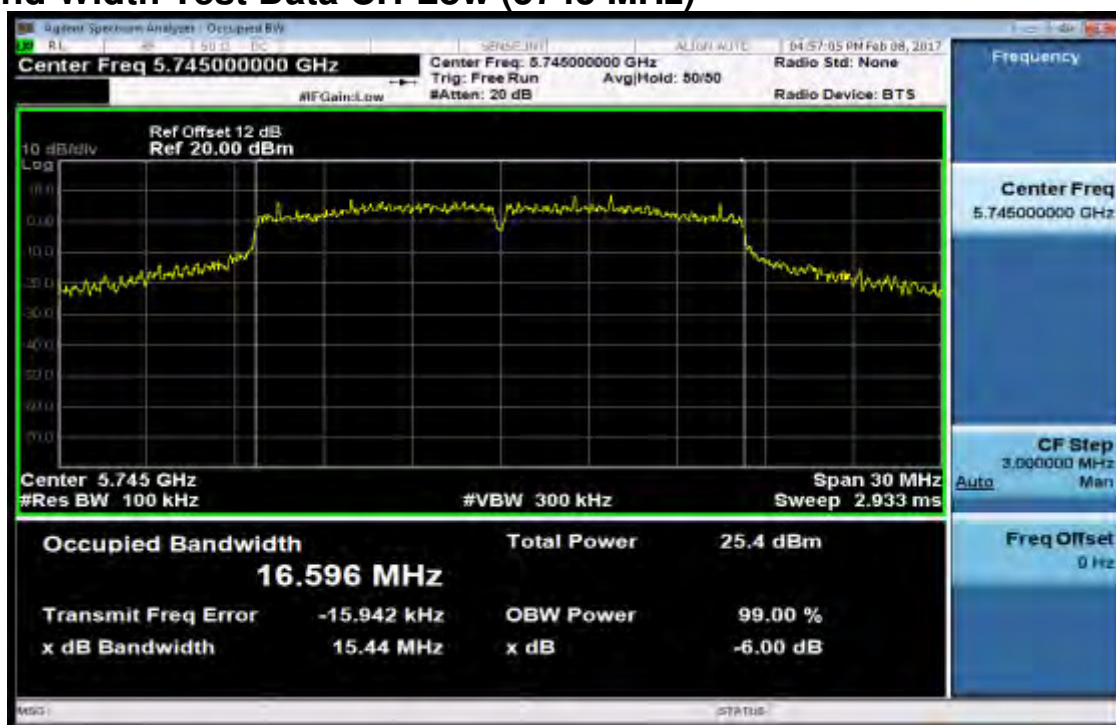
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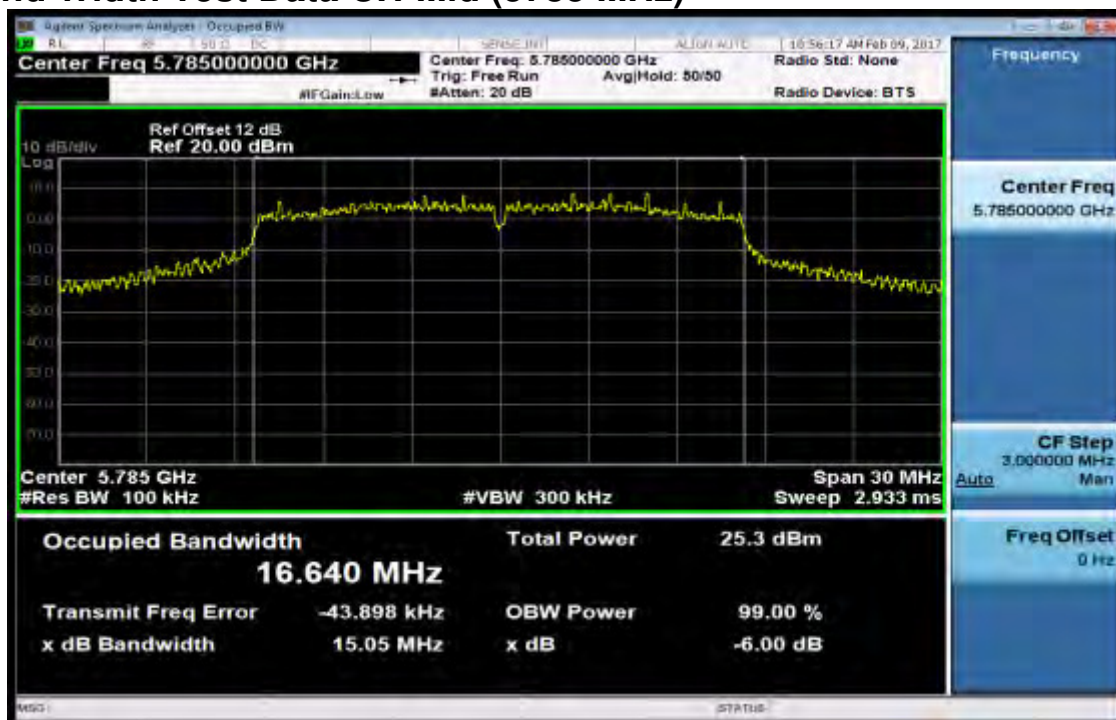
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802.11a, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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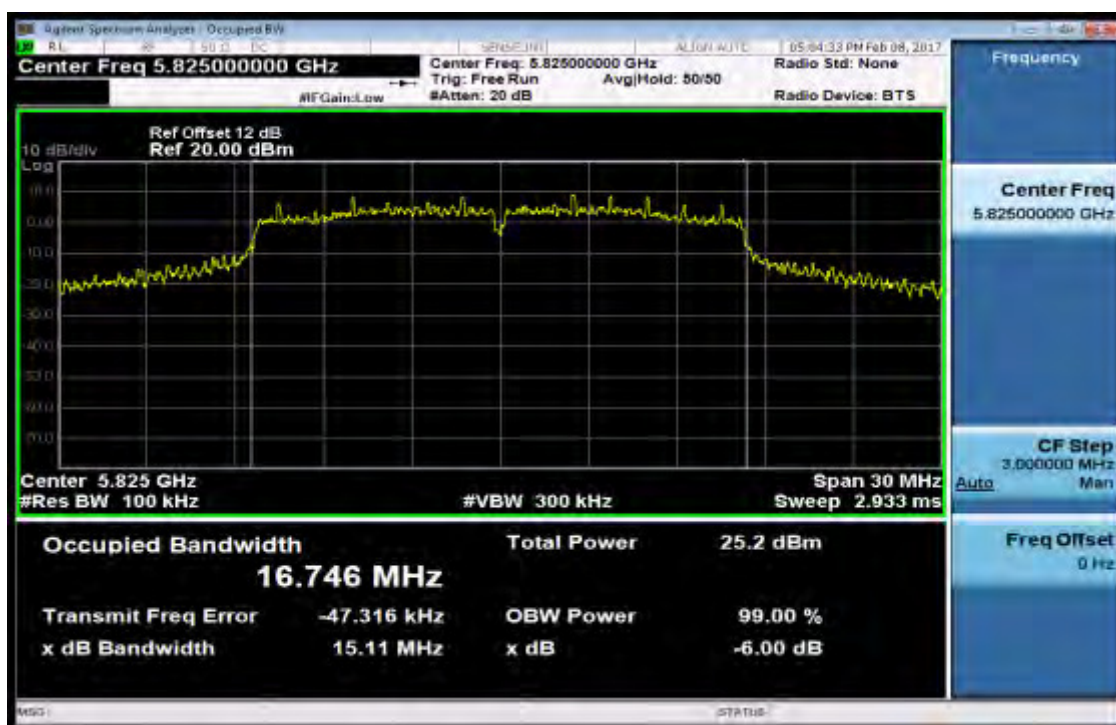
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6dB Band Width Test Data CH-High (5825 MHz)



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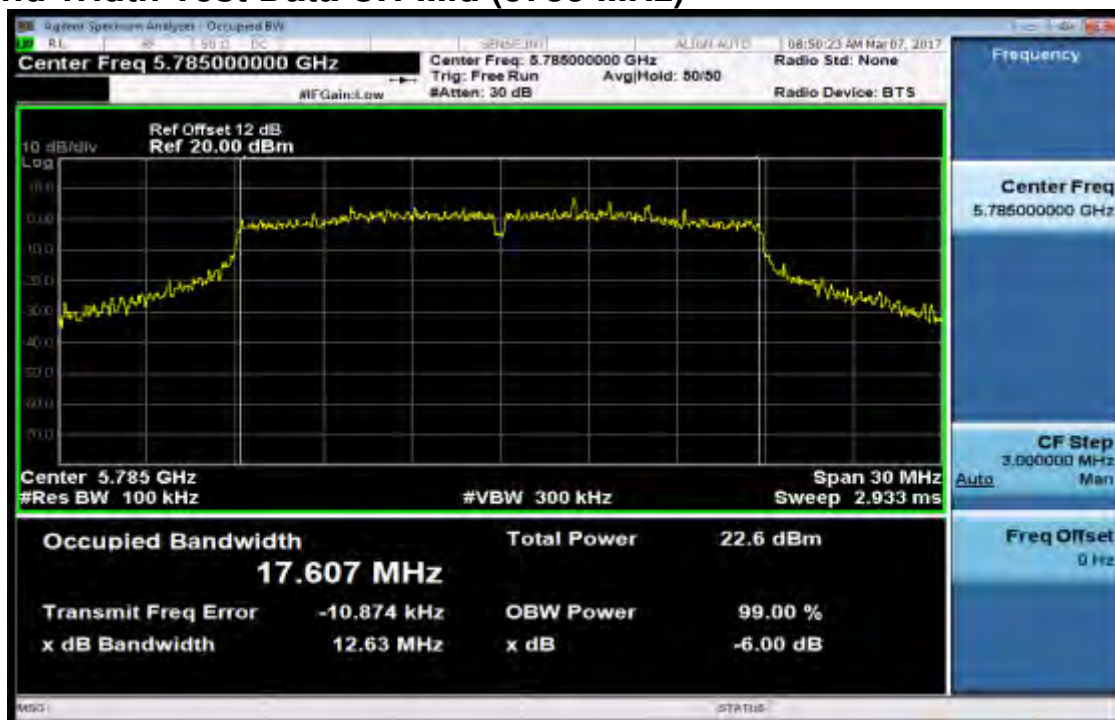
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802.11n_HT20, 5725~5850 MHz (MAIN) 6dB Band Width Test Data CH-Low (5745 MHz)



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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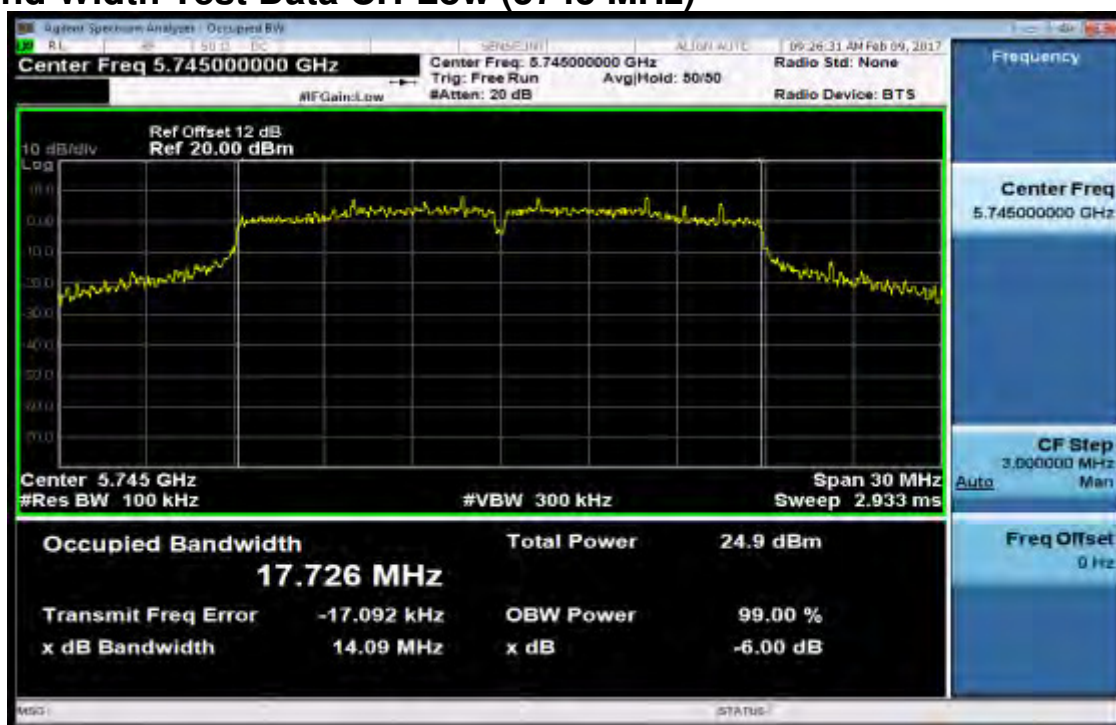
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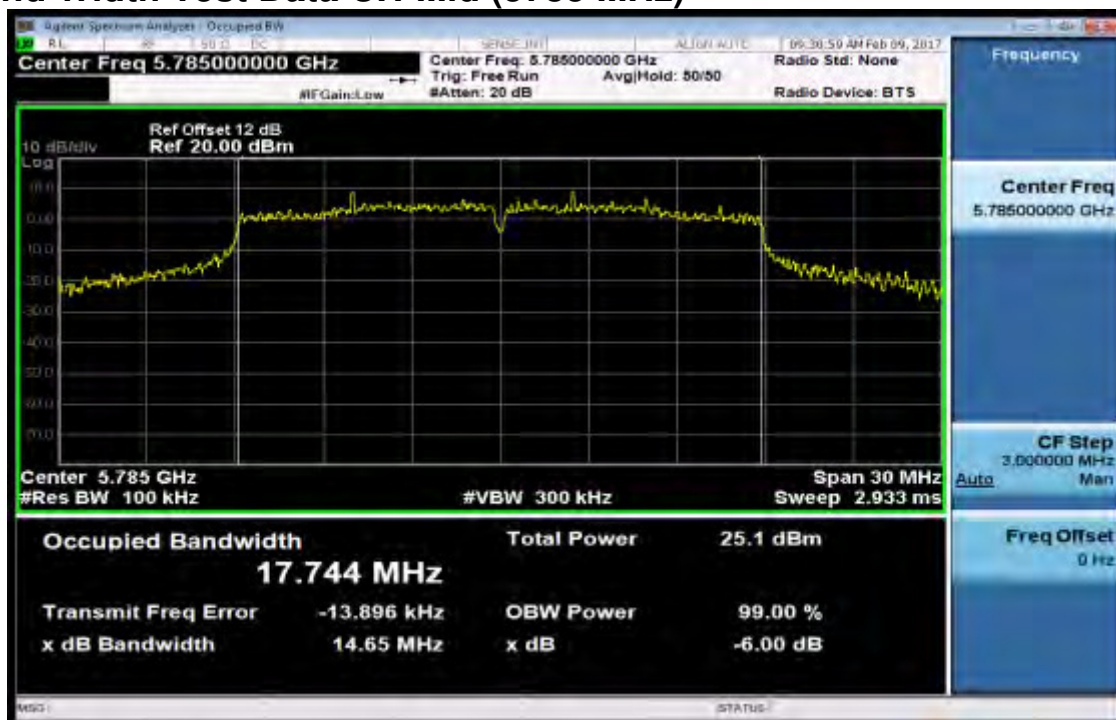
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802.11n_HT20, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5745 MHz)



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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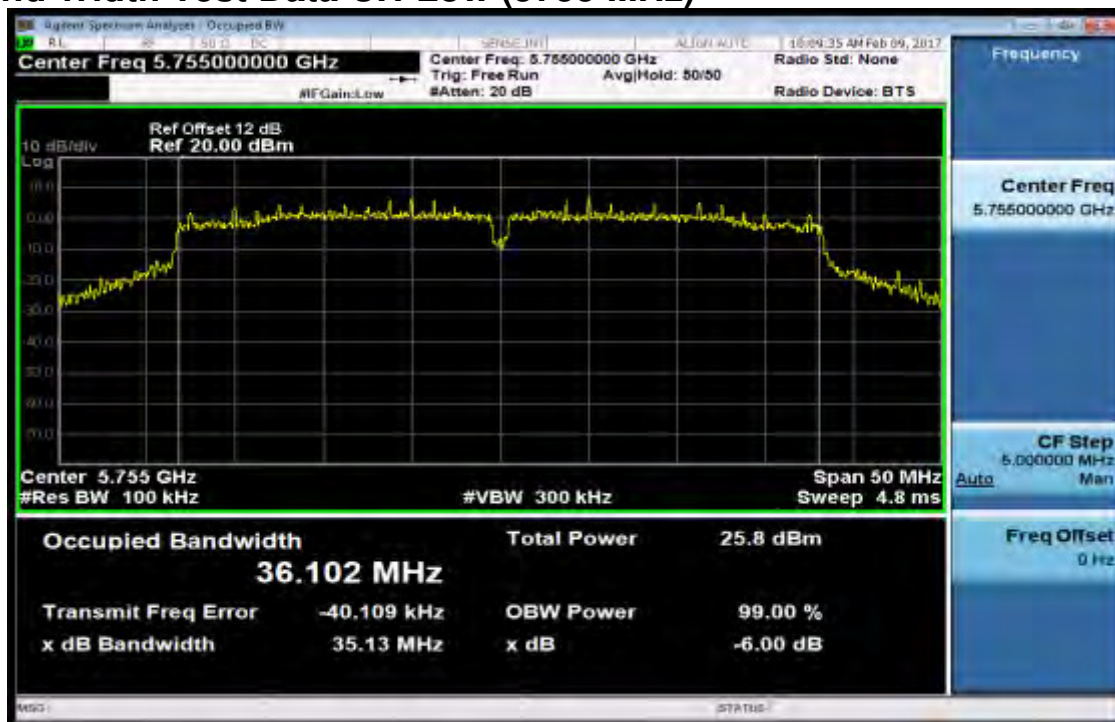
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802.11n_HT40, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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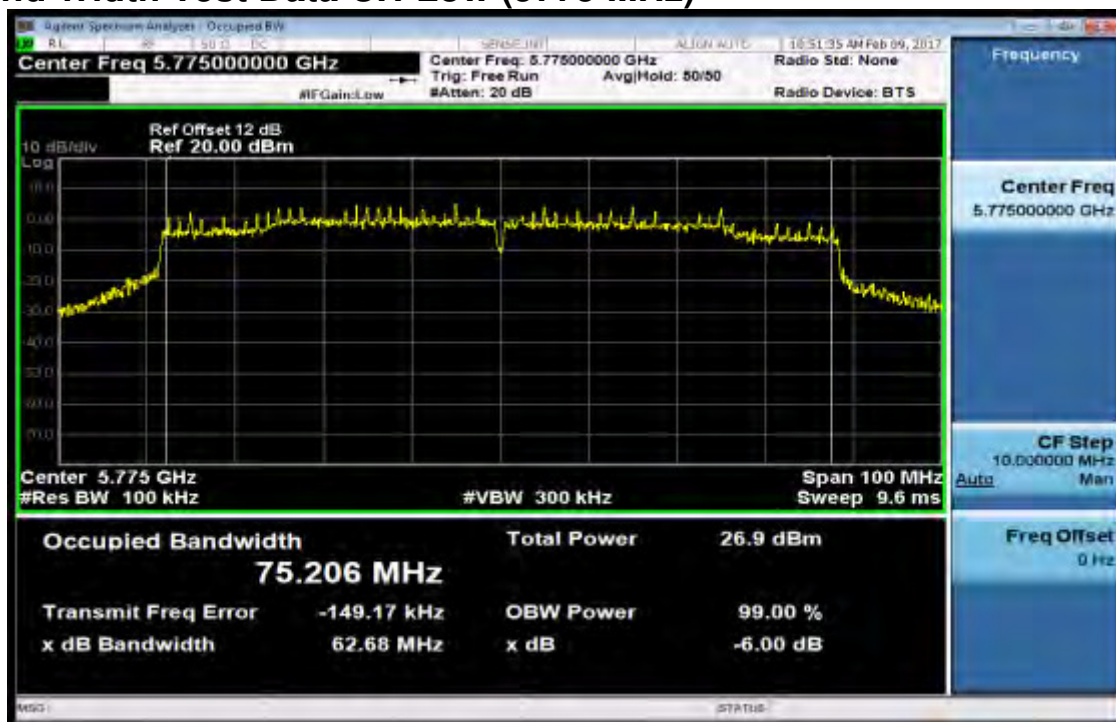
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802.11ac VHT80, 5725~5850 MHz (MAIN) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5775 MHz)



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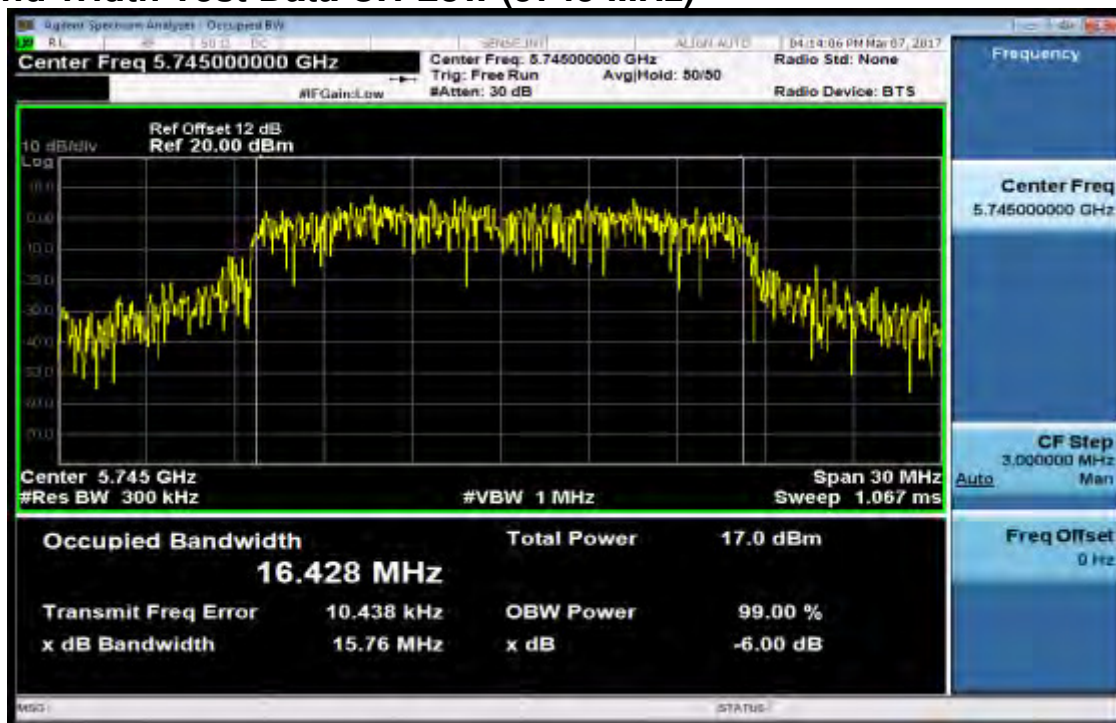
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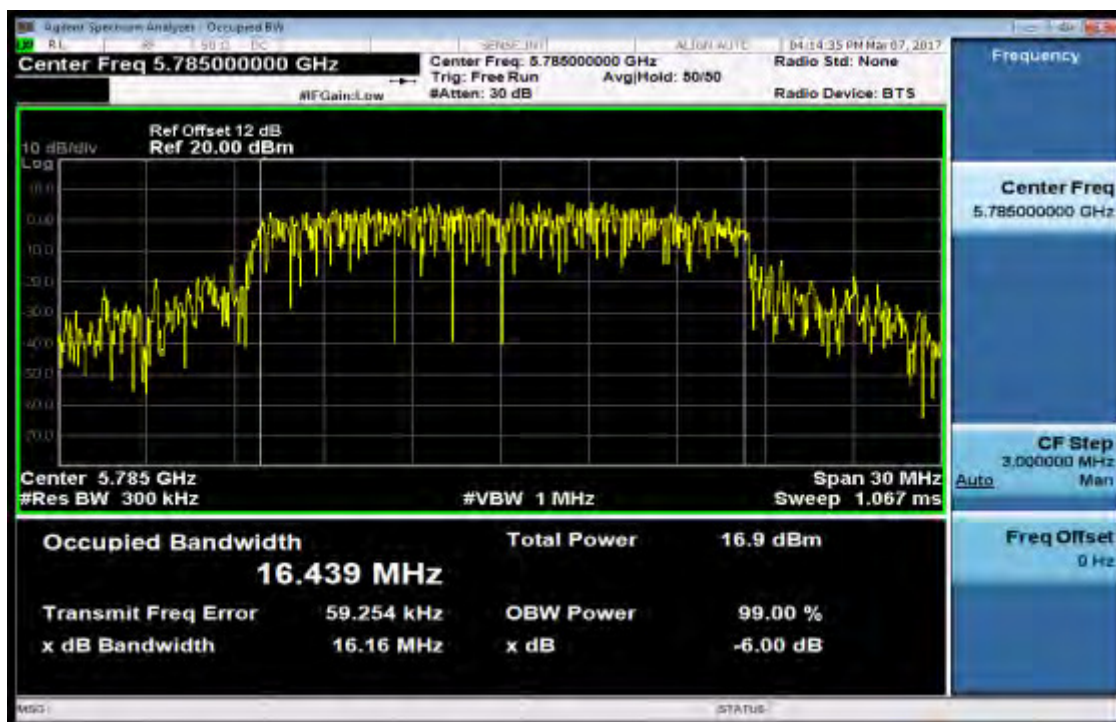
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (MAIN) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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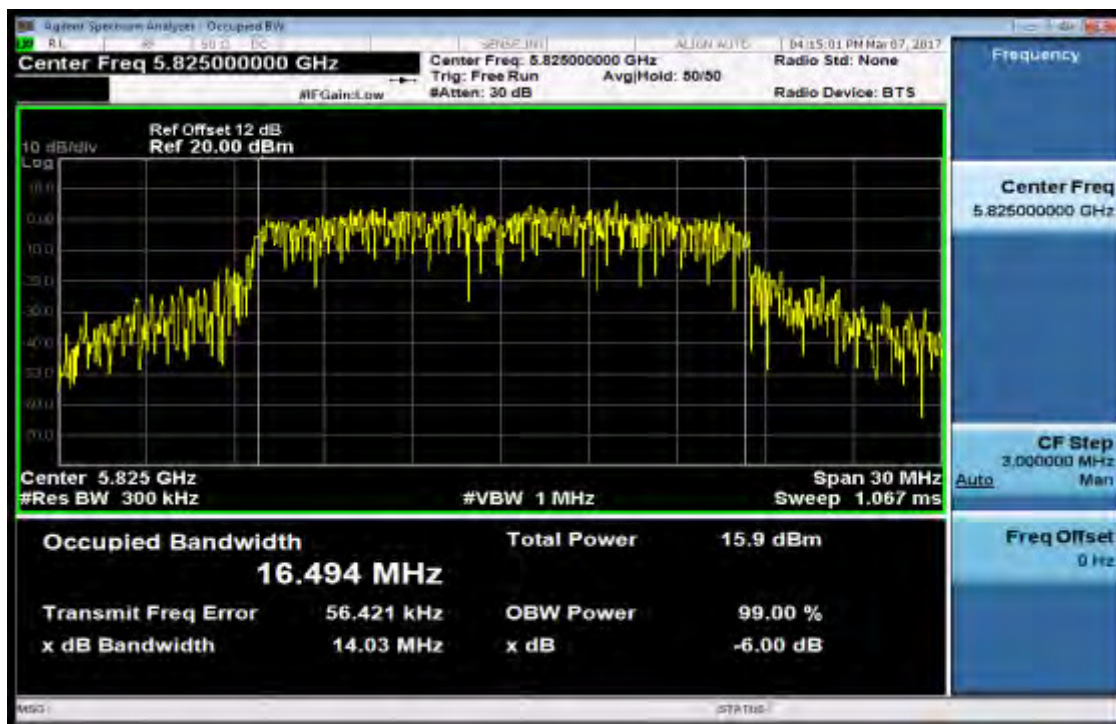
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6dB Band Width Test Data CH-High (5825 MHz)



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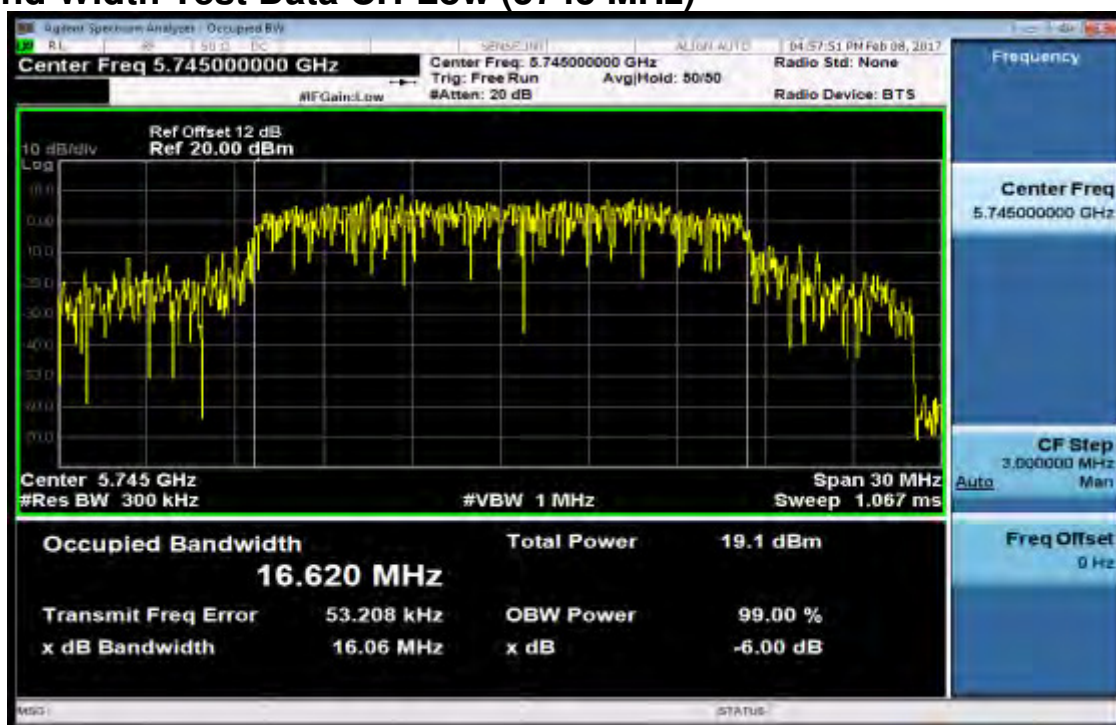
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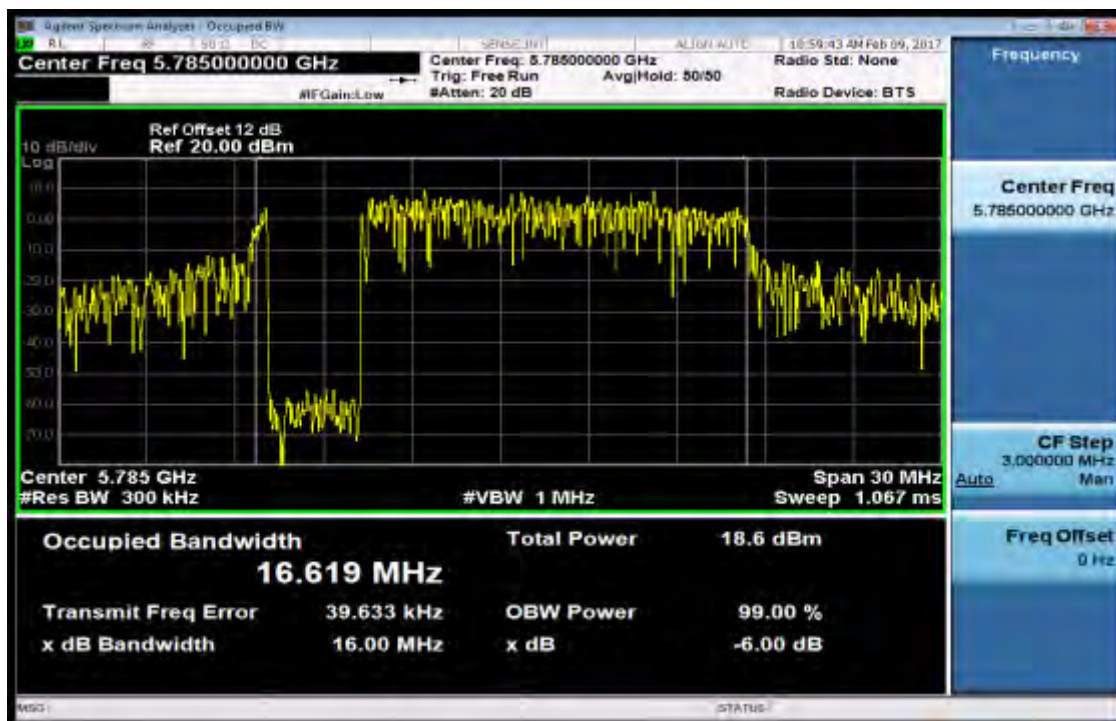
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802.11a, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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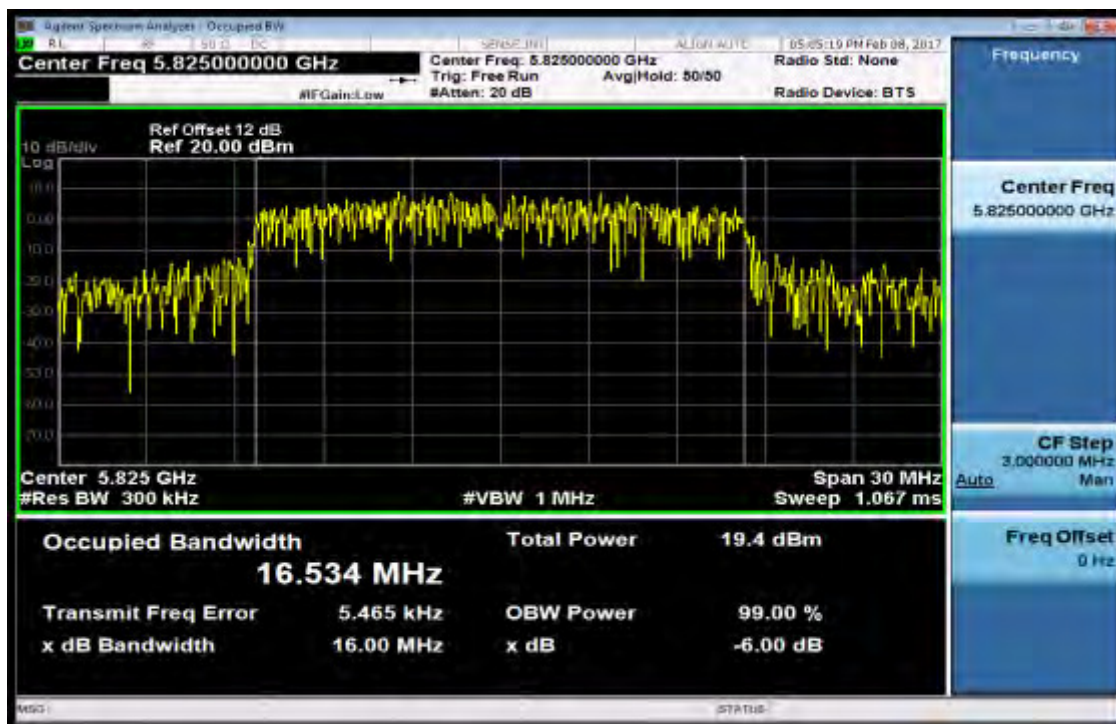
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6dB Band Width Test Data CH-High (5825 MHz)



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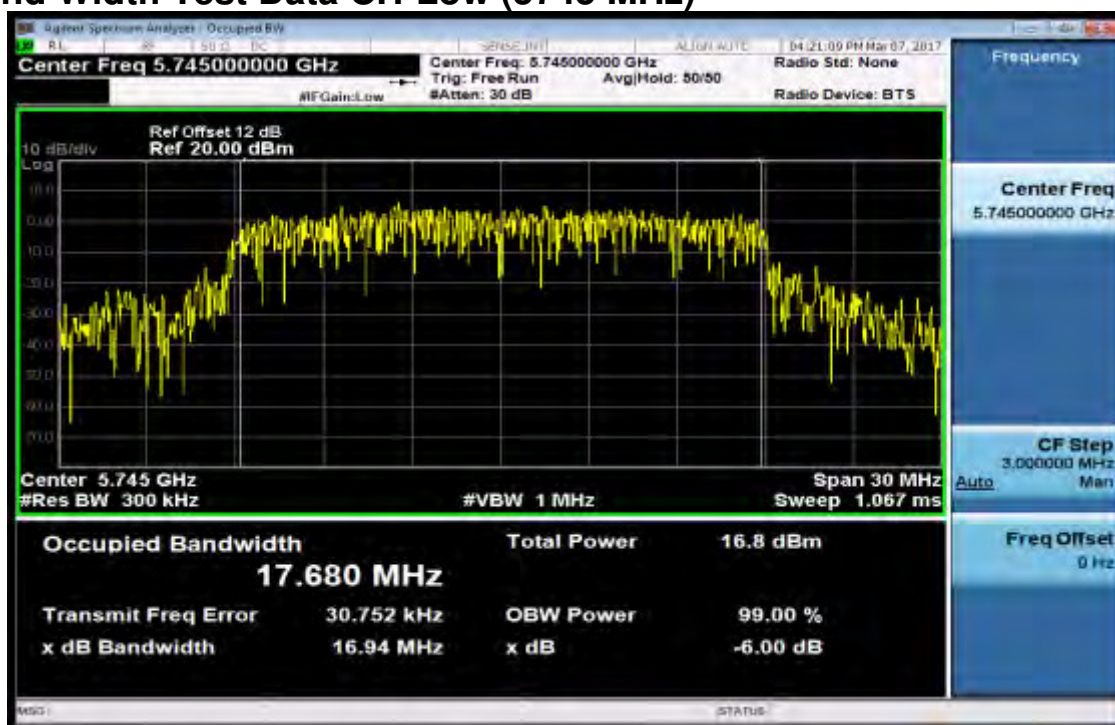
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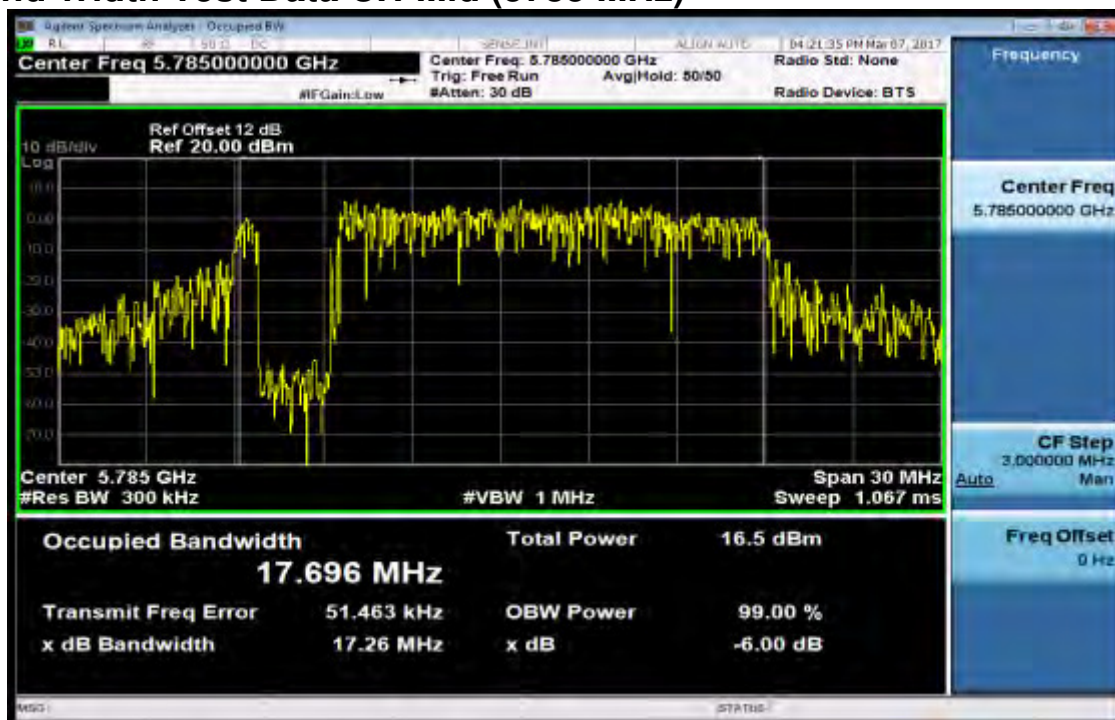
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802.11n_HT20, 5725~5850 MHz (MAIN) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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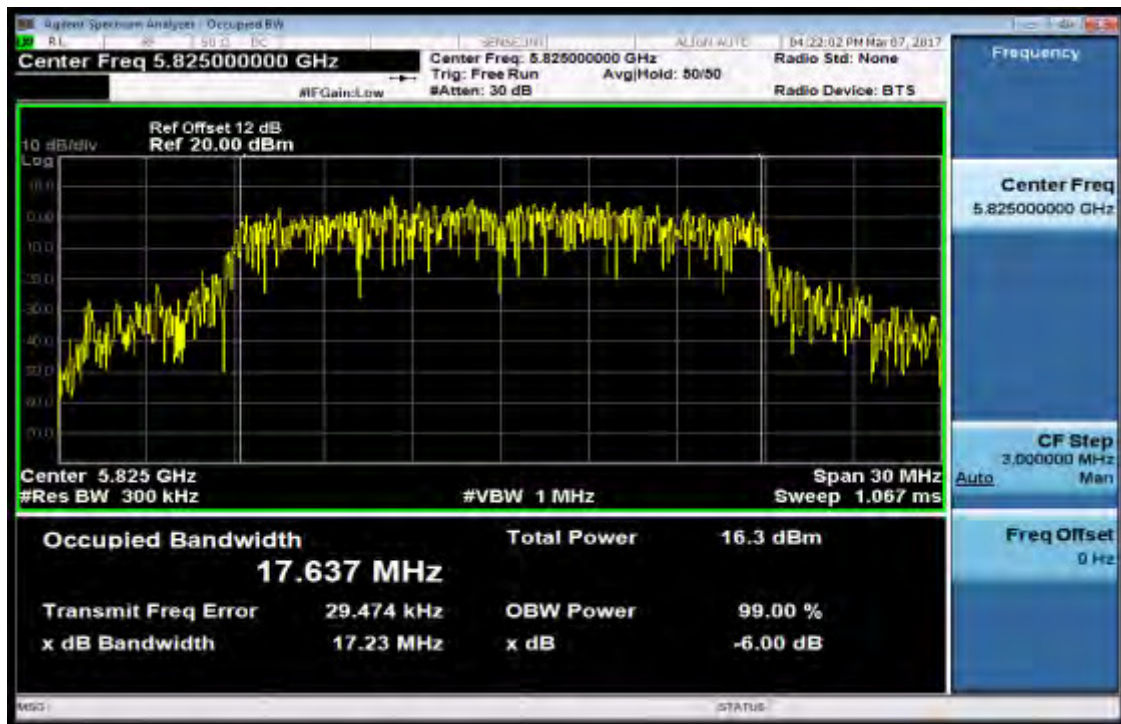
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6dB Band Width Test Data CH-High (5825 MHz)



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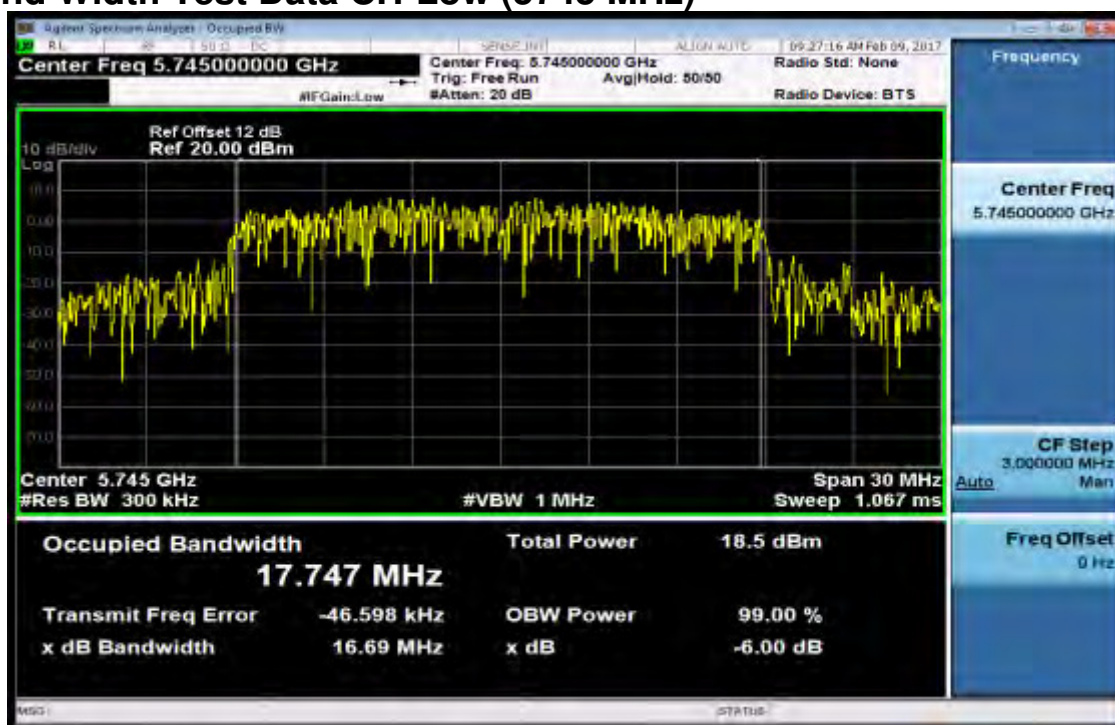
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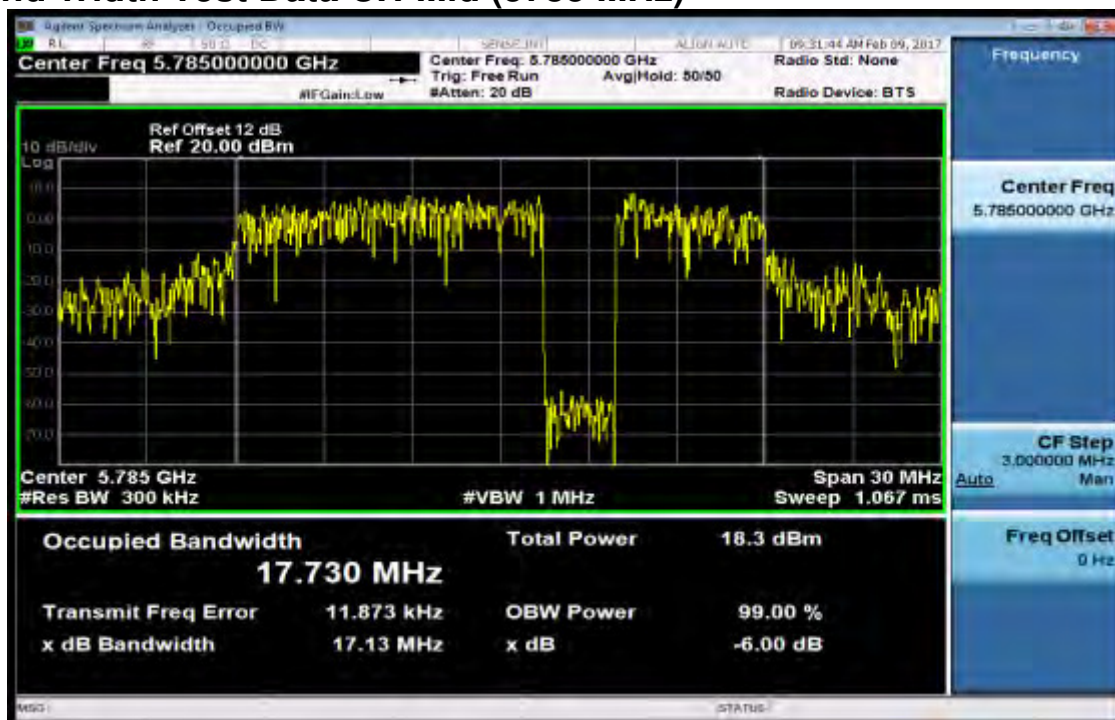
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802.11n_HT20, 5725~5850 MHz (AUX1) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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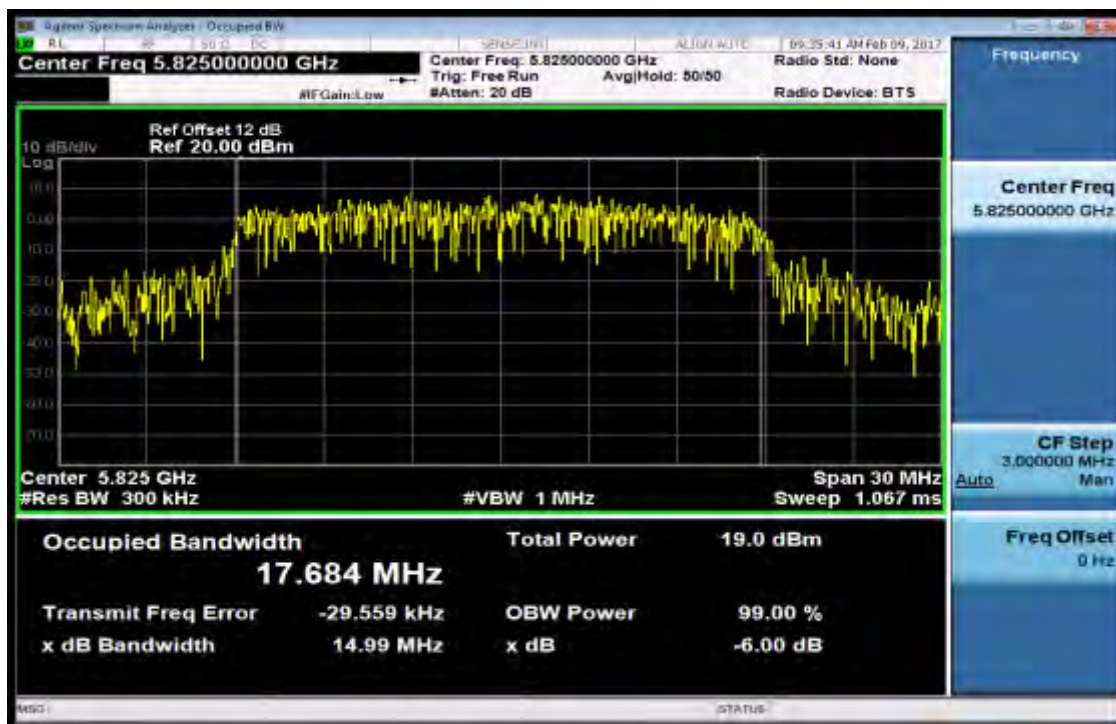
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6dB Band Width Test Data CH-High (5825 MHz)



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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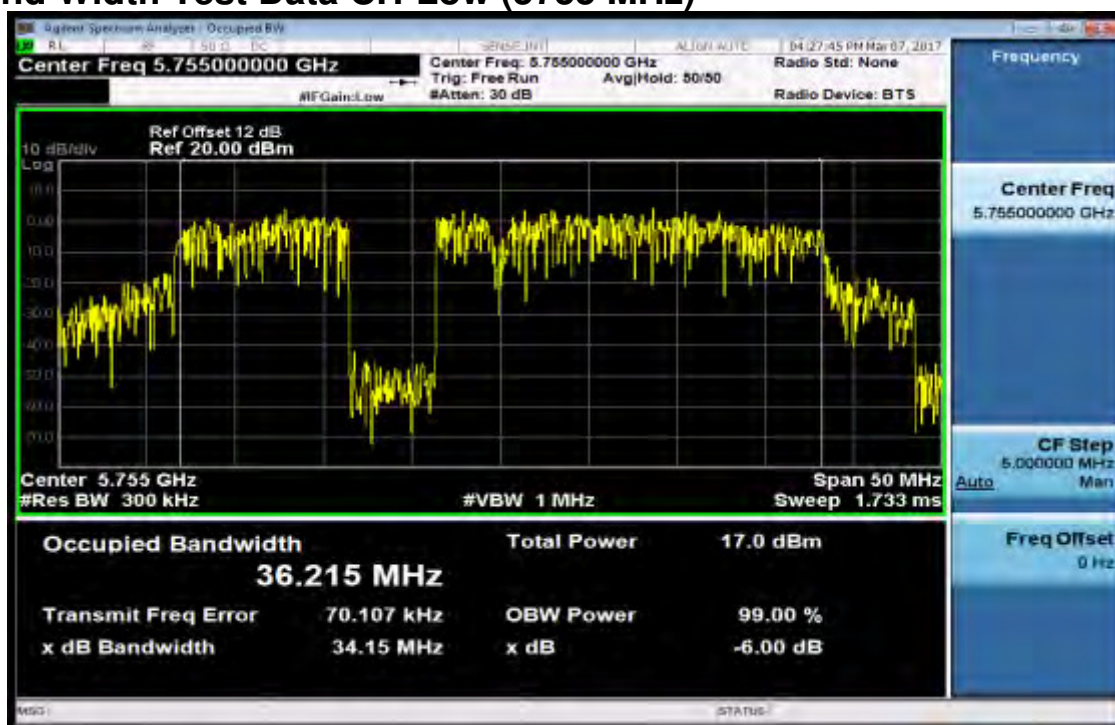
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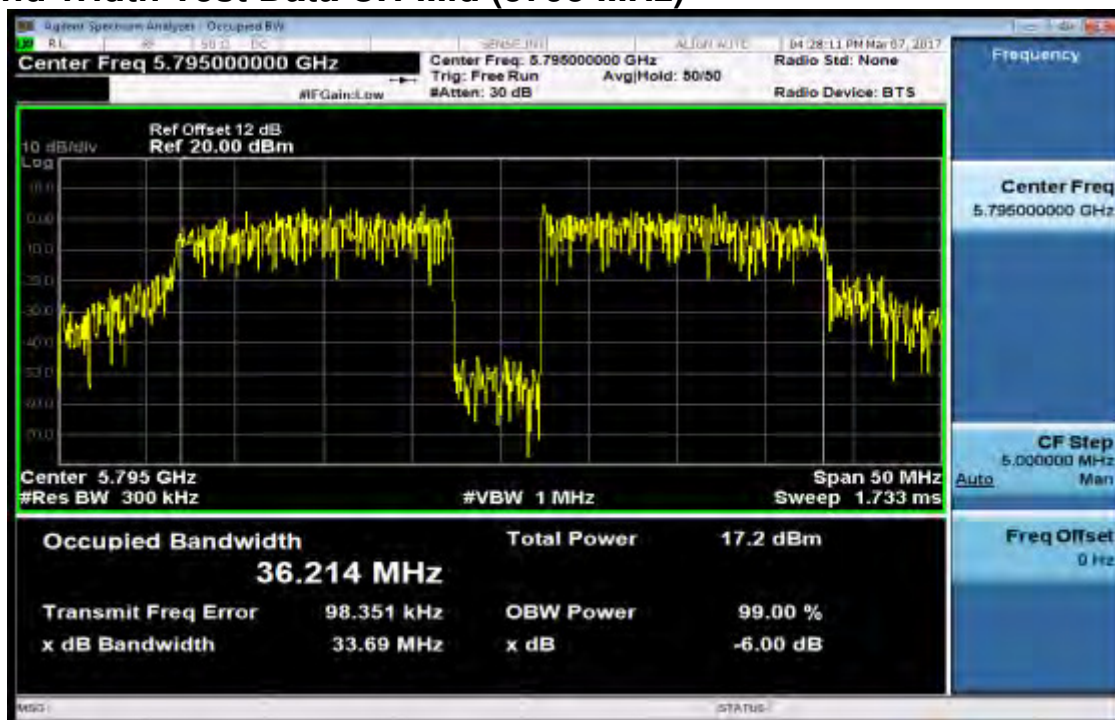
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802.11n_HT40, 5725~5850 MHz (MAIN) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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