

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name:	Notebook
Brand Name:	AMD
Model No.:	AMD TED
Model Difference:	N/A
FCC ID:	HFS-TED
IC:	1787B-TED
Report No.:	E2/2016/90003
Issue Date:	Sep. 23, 2016
FCC Rule Part:	§15.407
IC Rule Part	RSS-247 issue 1 May 2015
Prepared for:	Quanta Computer Inc. No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan
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: Quanta Computer Inc.
No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Product Name: Notebook

Brand Name: AMD

Model No.: AMD TED

Model Difference: N/A

FCC ID: HFS-TED

IC: 1787B-TED

File Number: E2/2016/90003

Date of Test: Aug. 29, 2016 ~ Sep. 20, 2016

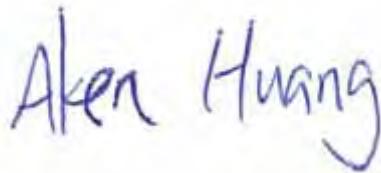
Date of EUT Received: Aug. 29, 2016

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:

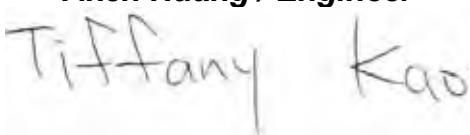


Date:

Sep. 23, 2016

Aken Huang / Engineer

Prepared By:

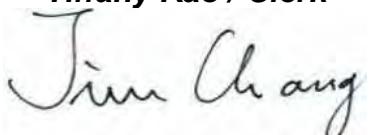


Date:

Sep. 23, 2016

Tiffany Kao / Clerk

Approved By:



Date:

Sep. 23, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/90003	Rev.00	Initial creation of document	Sep. 23, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Notebook	
Brand Name:	AMD	
Model No.:	AMD TED	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	15.28Vdc from Rechargeable Li-polymer Battery or 5V or 12V or 20V from AC/DC Adapter	
	Battery:	Model No.: TED, Supplier: JMS
	Adapter:	Model No.: ADP-45PE B, Supplier: Delta

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	Type of Emission
11a	5150~5250	4	15.90 dBm (Avg.) / 19.30 dBm (EIRP)	OFDM	16M4D1D
	5250~5350	4	15.99 dBm (Avg.) / 19.39 dBm (EIRP)		16M5D1D
	5470~5725	12	15.71 dBm (Avg.) / 19.09 dBm (EIRP)		16M4D1D
	5725-5850	5	16.00 dBm		15M8D1D
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 15.98 dBm (Avg.) / 19.38 dBm (EIRP) (Worst Case)	OFDM	17M7D1D
	HT / VHT20 5250~5350	4	HT: 15.95 dBm (Avg.) / 19.35 dBm (EIRP) (Worst Case)		17M6D1D
	HT / VHT20 5470~5725	11	HT: 15.98 dBm (Avg.) / 19.36 dBm (EIRP) (Worst Case)		17M6D1D
	HT / VHT20 5725-5850	5	HT: 15.86 dBm (Worst Case)		16M9D1D
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 15.49dBm (Avg.) / 18.89 dBm (EIRP) (Worst Case)	OFDM	36M1D1D
	HT / VHT40 5250~5350	2	HT: 15.44 dBm (Avg.) / 18.84 dBm (EIRP) (Worst Case)		36M1D1D
	HT / VHT40 5470~5725	5	HT: 15.45 dBm (Avg.) / 18.83 dBm (EIRP) (Worst Case)		36M0D1D
	HT / VHT40 5725-5850	2	HT: 15.77 dBm (Worst Case)		34M5D1D
11ac_80M	VHT80 5150~5250	1	11.35 dBm (Avg.) / 14.75 dBm (EIRP)	OFDM	75M2D1D
	VHT80 5250~5350	1	12.91 dBm (Avg.) / 16.31 dBm (EIRP)		75M2D1D
	VHT80 5470~5725	2	15.45 dBm (Avg.) / 16.35 dBm (EIRP)		75M2D1D
	VHT80 5725-5850	1	15.96 dBm		72M2D1D

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Antenna Designation	PIFA Antenna, 1. Main 5GHz Gain: 0.39dBi (5150MHz-5250MHz) 5GHz Gain: 0.39dBi (5250MHz-5350MHz) 5GHz Gain: 0.37dBi (5470MHz-5725MHz) 5GHz Gain: 0.70dBi (5725MHz-5850MHz) 2. Aux 5GHz Gain: -2.63dBi (5150MHz-5250MHz) 5GHz Gain: -1.40dBi (5250MHz-5350MHz) 5GHz Gain: -0.45dBi (5470MHz-5725MHz) 5GHz Gain: -1.19dBi (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: 13 – 173.3Mbps 802.11 ac_40MHz: 27 – 400Mbps 802.11 ac_80MHz: 58.5 – 866.7Mbps

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Notebook, supporting Wi-Fi 802.11a/b/g/n/ac, Bluetooth features, and below is details of information.

Product Feature	
Product Name:	Notebook
Brand Name:	AMD
Model No.:	AMD TED
Model Difference:	N/A
FCC ID:	HFS-TED
IC :	1787B-TED
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi- Specification	802.11a/b/g/n/ac

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

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

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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 issue 4 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 333 (TAF code 0513)

FCC Registration Numbers are: 735305

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 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 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.

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 2.3dB, and 10dB attenuator (SISO) and cable loss 5.3dB, and 10dB attenuator (MIMO).
SISO mode offset = RF cable loss (dB)+ attenuation factor(dB) =12.3(dB)
MIMO mode offset = RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =15.3(dB)

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2.5 Configuration of Tested System

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

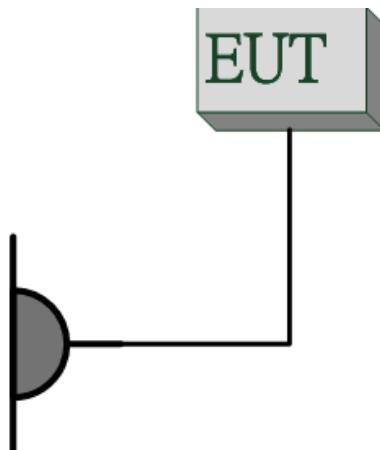


Fig. 2-2 Conducted (Antenna Port) Emission

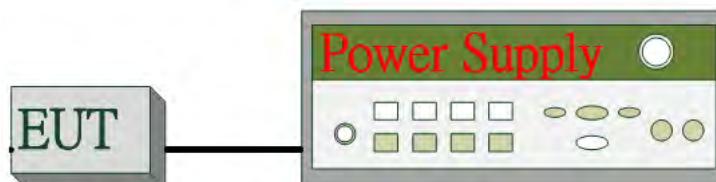


Table 2-1 Equipment Used in Tested System

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.	Notebook	Lenovo	L430	R9-YYG88	Shielded	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:

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 (FCC)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 MHz	122	5610 MHz

1 channels are provided for 802.11ac_VHT80 (IC)

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 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.

Note: Pre-scanned was done on Antenna Main and Antenna Aux, and Antenna Main results higher emission at 5GHz. Therefore, the completed set of measurement was done on Antenna Main (5GHz) to be presented on this test report.

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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	1	2TX
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	2TX
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	2TX
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX

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	1	2TX
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	1	2TX
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	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80(FCC)	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11ac_VHT80(IC)	5530~5530	106	106	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX
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 H 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	1	2TX
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	1	2TX
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
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	2TX
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80 (FCC)	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11ac_VHT80 (IC)	5530~5530	106	106	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	2TX
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

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	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	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

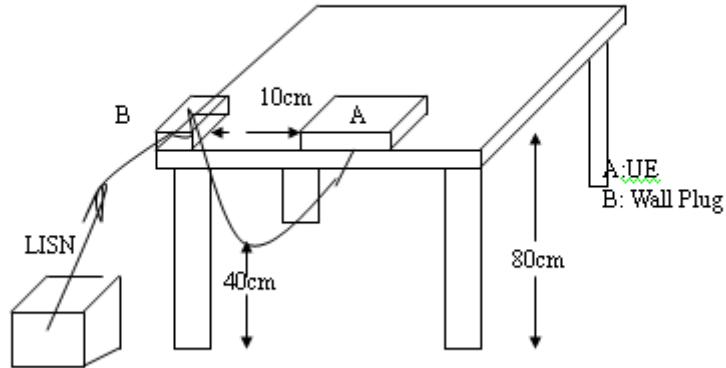
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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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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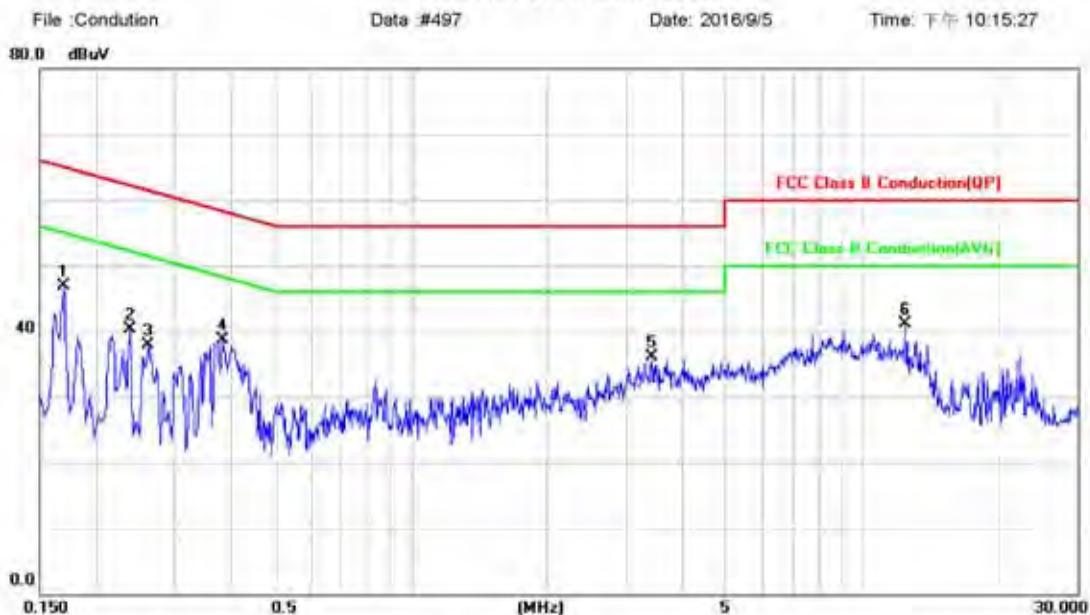
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Sep. 05, 2016
Temperature:	20	Humidity:	58 %	Test By:	Aken
				Phase:	L1

Site : Conduction Room Phase: **L1** Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 67 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1 *		0.1700	27.19	19.72	46.91	64.96	-18.05	peak
2		0.2380	20.56	19.74	40.30	62.17	-21.87	peak
3		0.2620	18.15	19.75	37.90	61.37	-23.47	peak
4		0.3820	18.84	19.82	38.66	58.24	-19.58	peak
5		3.4180	16.10	19.95	36.05	56.00	-19.95	peak
6		12.4660	20.91	20.17	41.08	60.00	-18.92	peak

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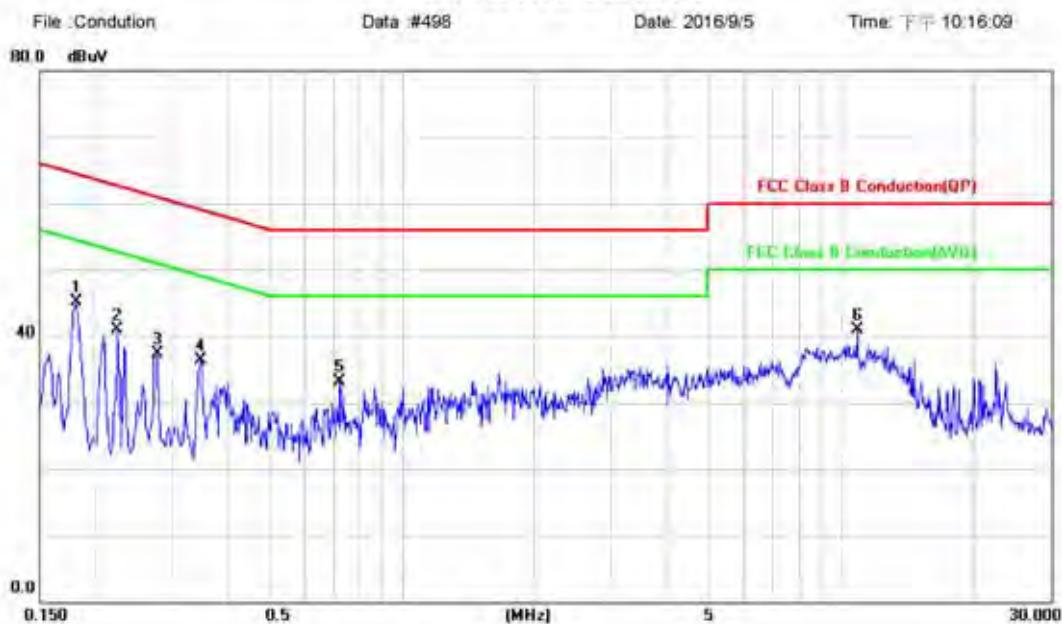
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Site: Conduction Room Phase: **N** Temperature: 23 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 67 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1820	25.35	19.72	45.07	64.39	-19.32	peak	
2		0.2260	21.17	19.74	40.91	62.60	-21.69	peak	
3		0.2780	17.62	19.77	37.39	60.88	-23.49	peak	
4		0.3500	16.46	19.81	36.27	58.96	-22.69	peak	
5		0.7260	13.19	19.92	33.11	56.00	-22.89	peak	
6 *		10.8700	20.76	20.14	40.90	60.00	-19.10	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)
802.11a	95.50	0.20
802.11n_20	91.35	0.39
802.11n_40	83.94	0.76
802.11ac_80	83.33	0.79

Duty Cycle Factor: $10 * \log(1/0.955) = 0.2$

Duty Cycle Factor: $10 * \log(1/0.9135) = 0.39$

Duty Cycle Factor: $10 * \log(1/0.8394) = 0.76$

Duty Cycle Factor: $10 * \log(1/0.8333) = 0.79$

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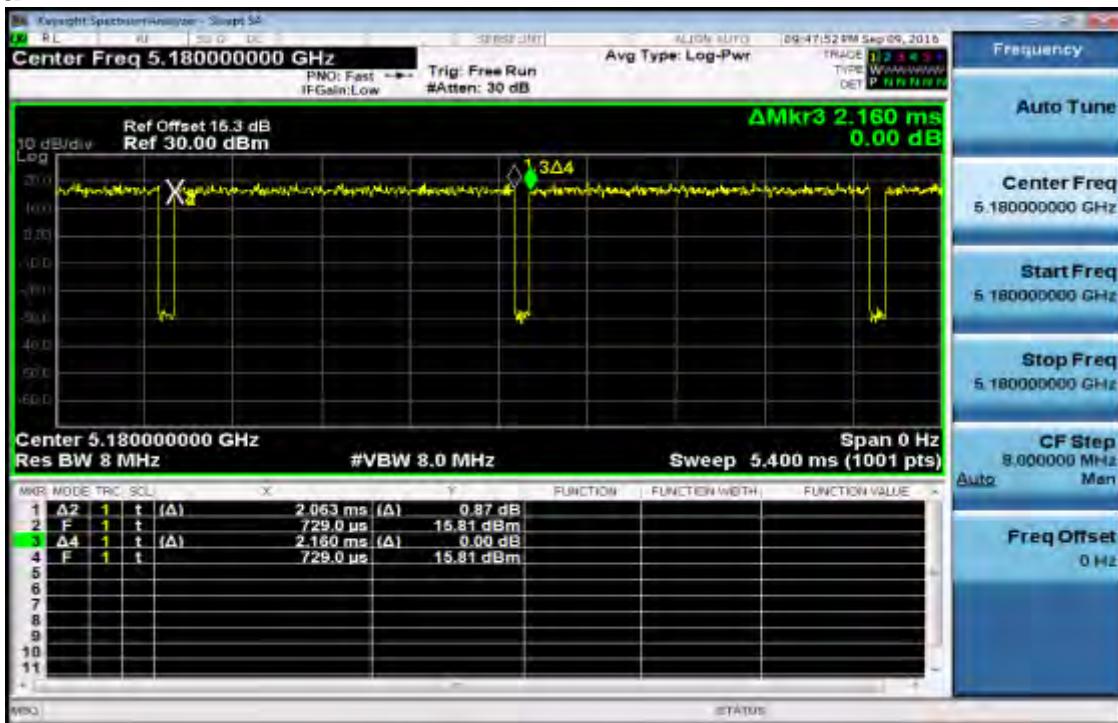
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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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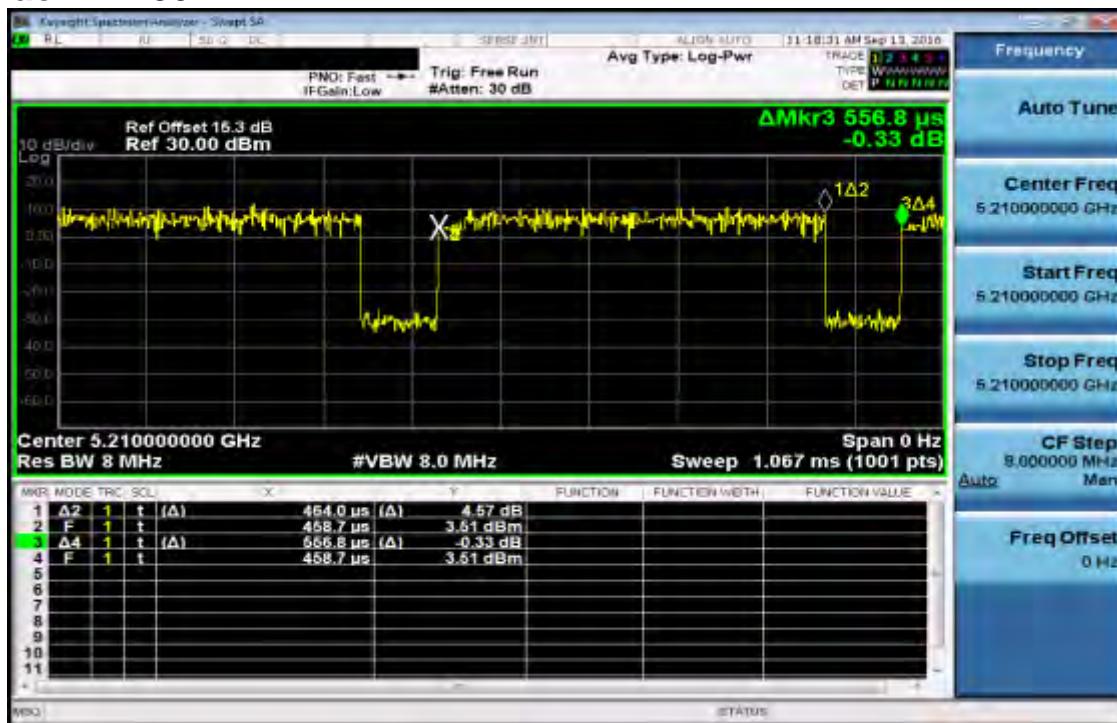
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802.11n HT 40



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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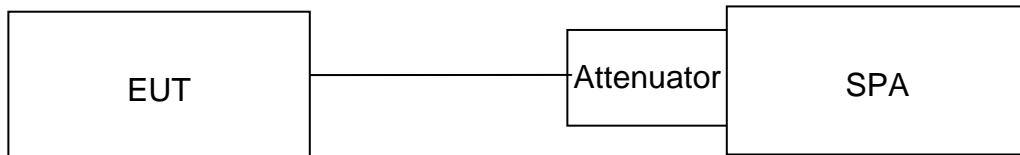
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8.3 Measurement Equipment Used

SGS Conducted Room					
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	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	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	28.69	14.577
5220	18.40	12.647
5240	18.29	12.623
5260	19.46	12.891
5300	18.41	12.651
5320	19.25	12.845
5500	18.30	12.625
5580	18.77	12.733
5700	18.10	12.577

802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.26	12.616
5220	18.40	12.648
5240	17.89	12.526
5260	18.23	12.609
5300	18.81	12.744
5320	18.08	12.573
5500	18.59	12.692
5580	19.55	12.911
5700	18.49	12.669

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.99	12.785
5220	18.98	12.783
5240	19.28	12.851
5260	19.19	12.832
5300	19.21	12.835
5320	18.99	12.784
5500	18.81	12.744
5580	19.01	12.790
5700	18.83	12.749

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	18.83	12.749
5220	18.83	12.749
5240	18.83	12.749
5260	19.51	12.902
5300	18.99	12.784
5320	18.85	12.752
5500	18.83	12.747
5580	22.66	13.552
5700	18.83	12.747

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802.11n _HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.29	15.831
5230	38.31	15.833
5270	38.06	15.805
5310	43.02	16.337
5510	38.29	15.831
5550	37.81	15.777
5670	38.05	15.804

802.11n _HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	38.05	15.804
5230	39.10	15.922
5270	44.04	16.439
5310	38.03	15.802
5510	38.01	15.799
5550	38.04	15.802
5670	38.06	15.805

802.11ac _VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.65	18.901
5290	78.14	18.929
5530	77.68	18.903
5610	84.97	19.293

802.11ac _VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.77	18.908
5290	77.85	18.912
5530	77.66	18.902
5610	88.54	19.472

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99% Bandwidth

802.11a_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.380	12.143
5220	16.323	12.128
5240	16.371	12.141
5260	16.461	12.165
5300	16.251	12.109
5320	16.372	12.141
5500	16.392	12.146
5580	16.324	12.128
5700	16.373	12.141

802.11a_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.386	12.145
5220	16.385	12.144
5240	16.309	12.124
5260	16.421	12.154
5300	16.312	12.125
5320	16.399	12.148
5500	16.366	12.139
5580	16.235	12.105
5700	16.356	12.137

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.574	12.449
5220	17.488	12.427
5240	17.685	12.476
5260	17.468	12.422
5300	17.564	12.446
5320	17.625	12.461
5500	17.532	12.438
5580	17.564	12.446
5700	17.602	12.456

802.11n_HT20_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.478	12.425
5220	17.568	12.447
5240	17.571	12.448
5260	17.567	12.447
5300	17.502	12.431
5320	17.438	12.415
5500	17.409	12.408
5580	17.485	12.427
5700	17.530	12.438

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802.11n _HT40_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.976	15.560
5230	36.153	15.581
5270	35.952	15.557
5310	35.922	15.554
5510	35.929	15.554
5550	36.029	15.567
5670	35.948	15.557

802.11n _HT40_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.981	15.561
5230	35.886	15.549
5270	36.094	15.574
5310	36.019	15.565
5510	35.986	15.561
5550	35.819	15.541
5670	35.564	15.510

802.11ac _VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.759	18.737
5290	75.170	18.760
5530	75.065	18.754

802.11ac _VHT80_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.159	18.760
5290	75.157	18.760
5530	75.210	18.763

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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	15.11	11.792
5785	15.12	11.796
5825	15.62	11.936

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.17	11.515
5785	14.47	11.603
5825	13.57	11.326

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.10	11.789
5785	16.28	12.117
5825	14.74	11.686

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.12	11.795
5785	14.71	11.675
5825	15.13	11.797

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.13	15.457
5795	35.11	15.454

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.11	15.454
5795	33.78	15.287

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.05	18.754

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	69.02	18.390

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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	13.96	11.449
5785	15.84	11.998
5825	15.84	11.998

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.89	11.730
5785	15.50	11.903
5825	13.36	11.256

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.22	11.825
5785	16.93	12.286
5825	10.41	10.173

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.58	12.196
5785	13.58	11.329
5825	16.26	12.112

802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	28.43	14.538
5795	34.05	15.321

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.48	15.375
5795	34.06	15.323

802.11ac_VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.16	18.583

802.11ac_VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	65.26	18.147

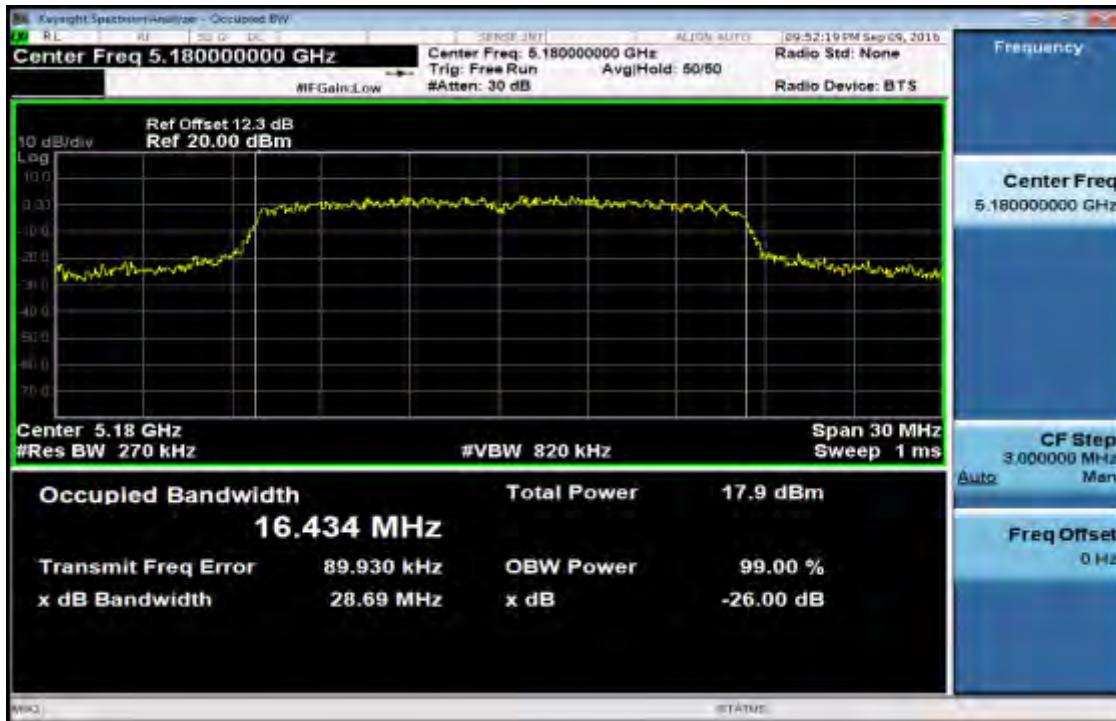
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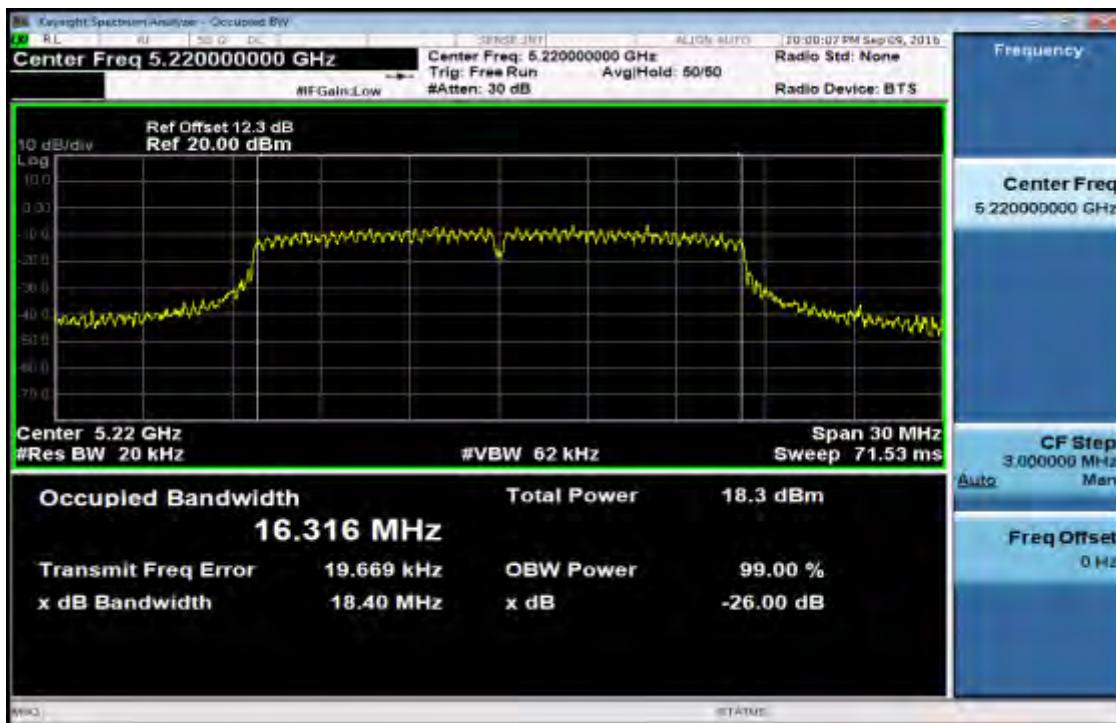
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)



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



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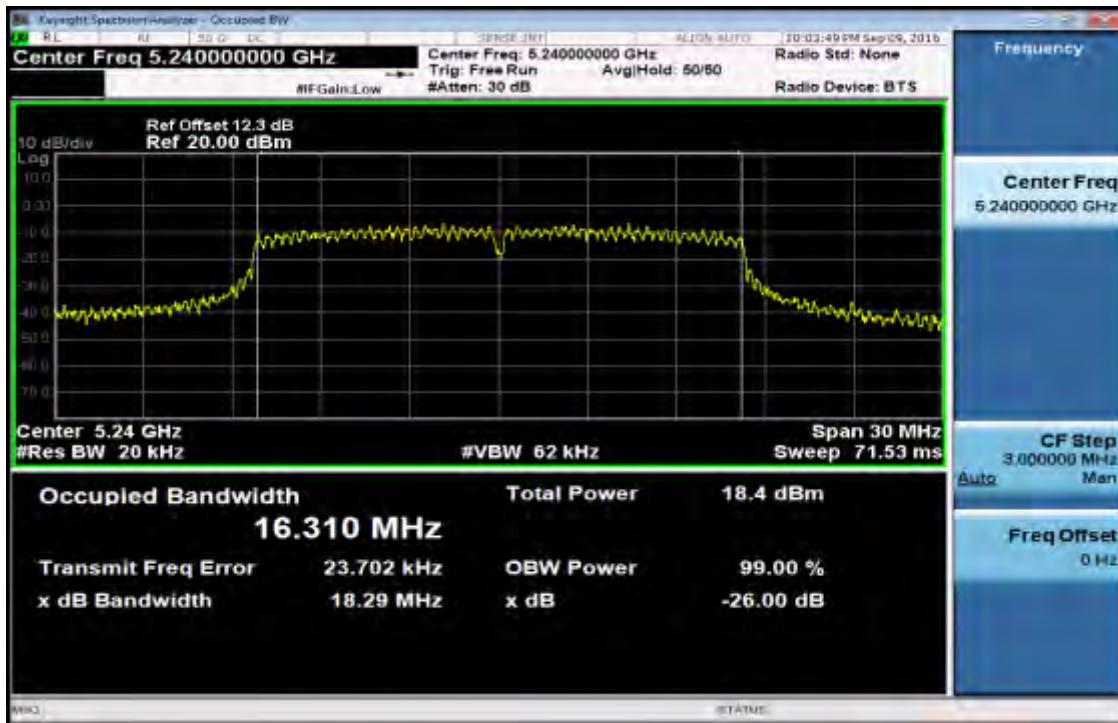
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26dB Band Width Test Data CH-High (5240MHz)

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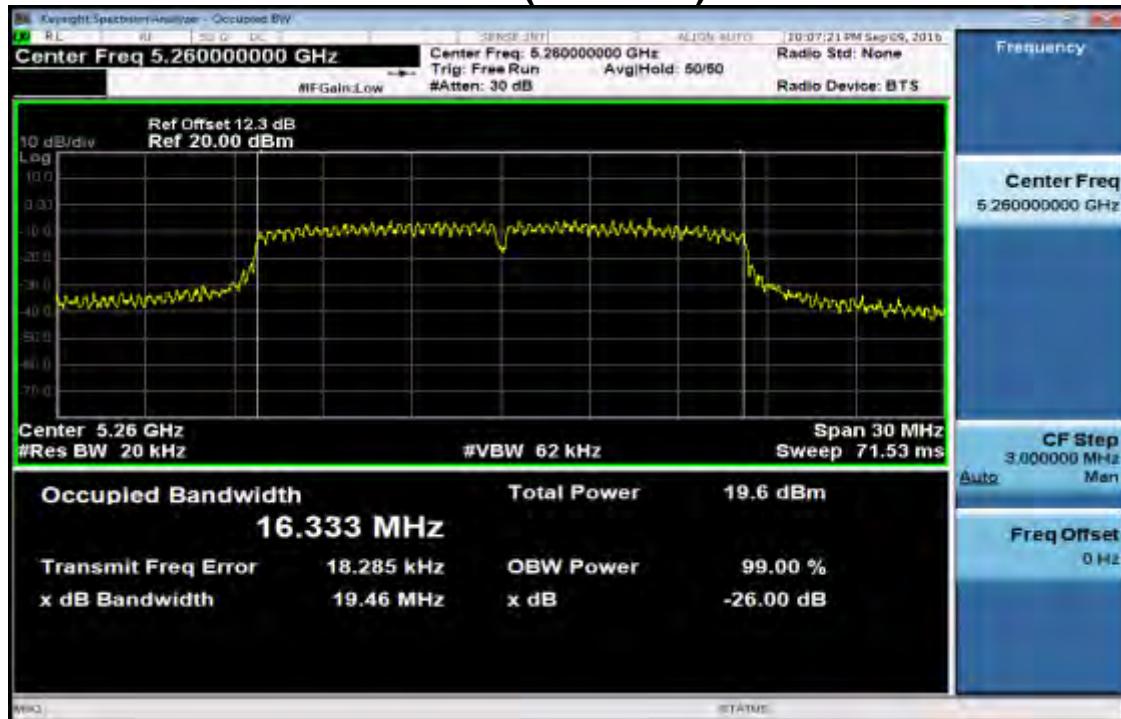
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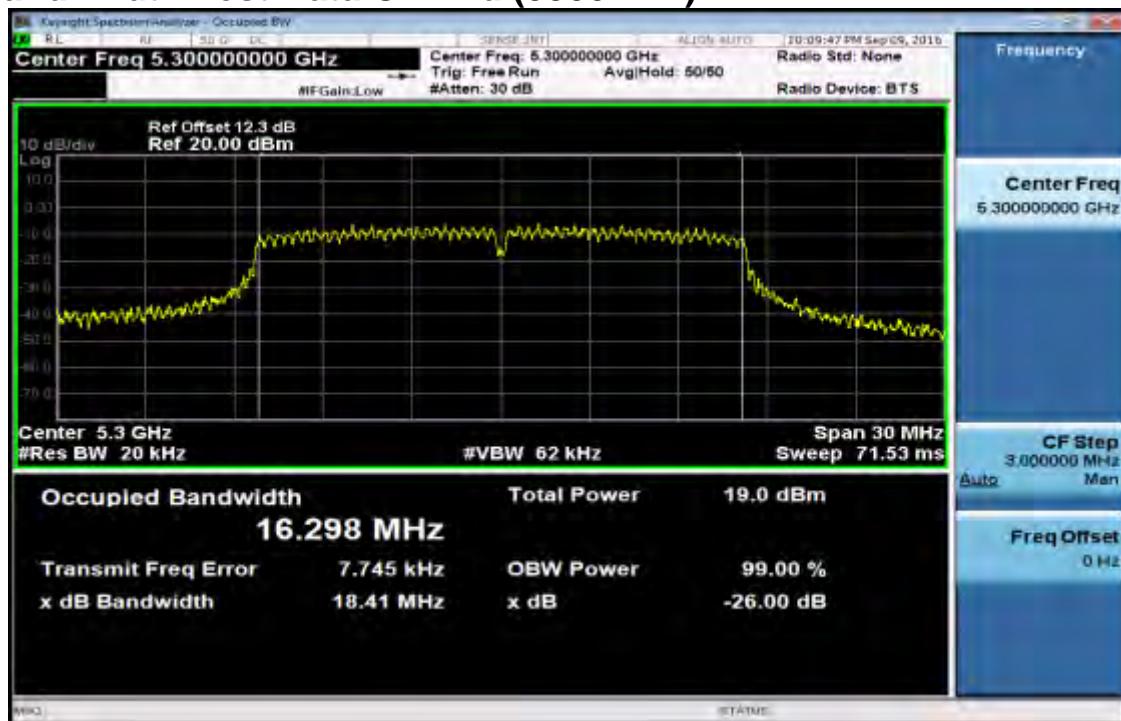
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802.11a, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260MHz)



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

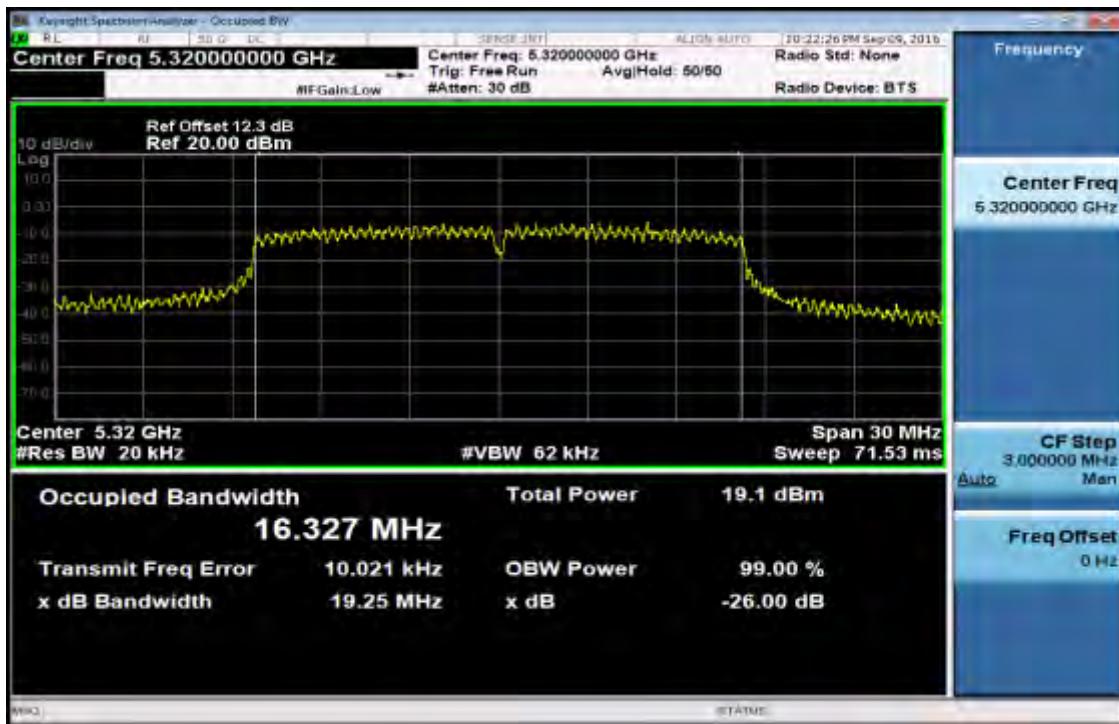


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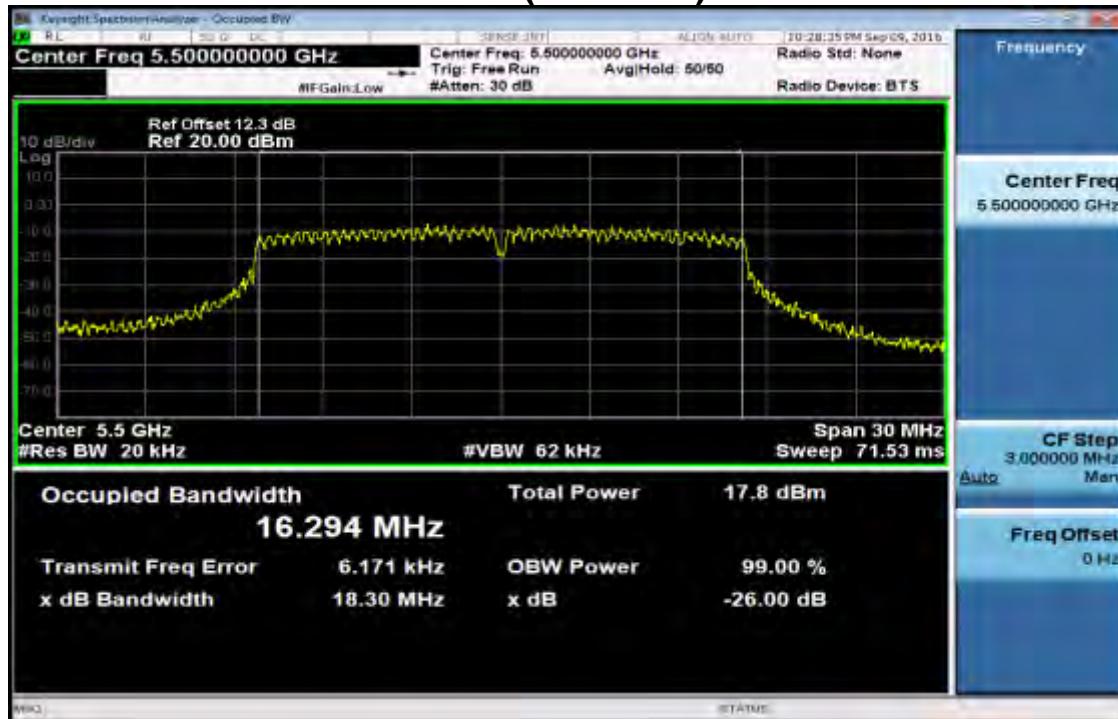
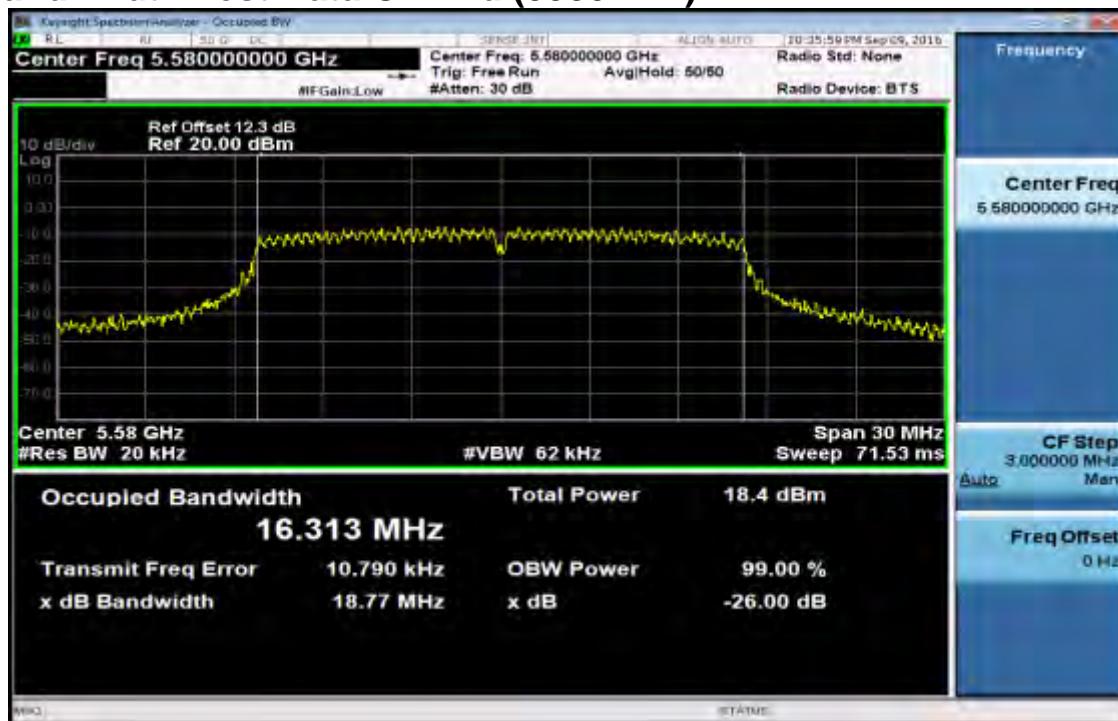
26dB Band Width Test Data CH-High (5320MHz)



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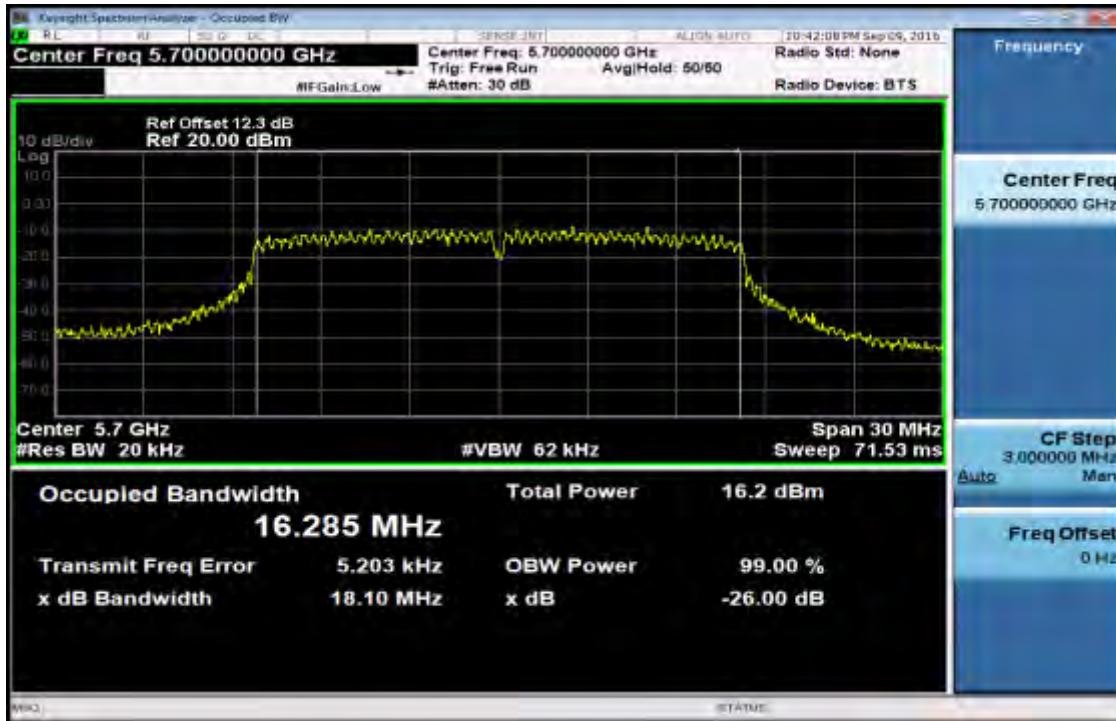
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26dB Band Width Test Data CH-High (5700MHz)

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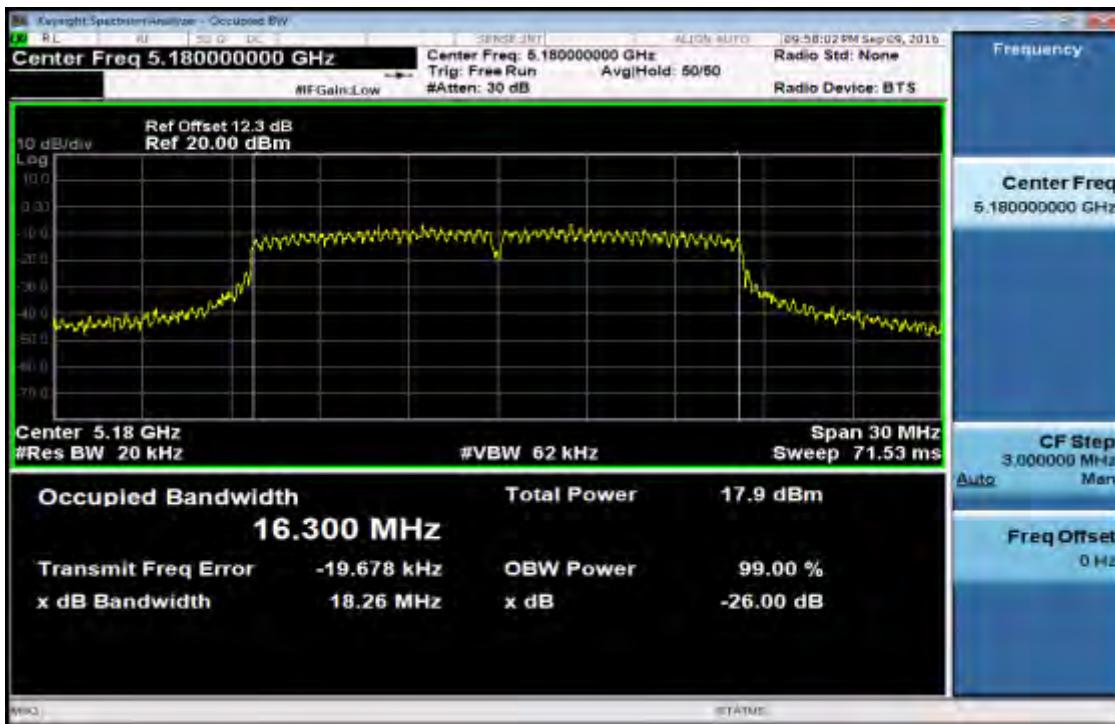
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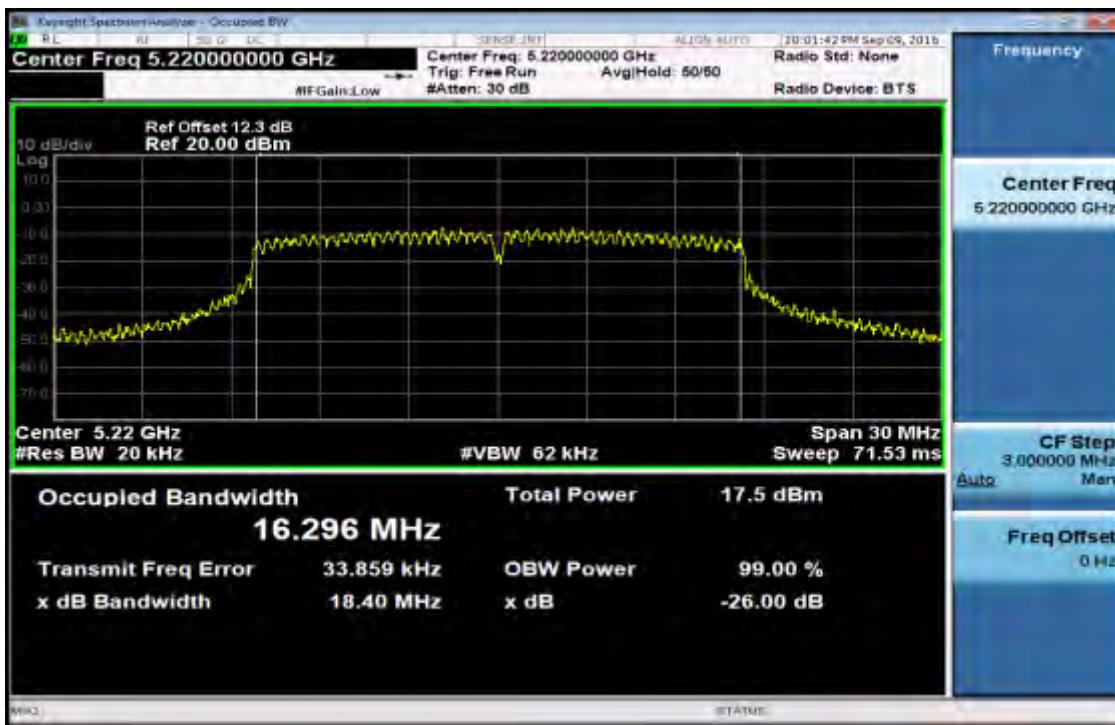
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802.11a, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Low (5180MHz)



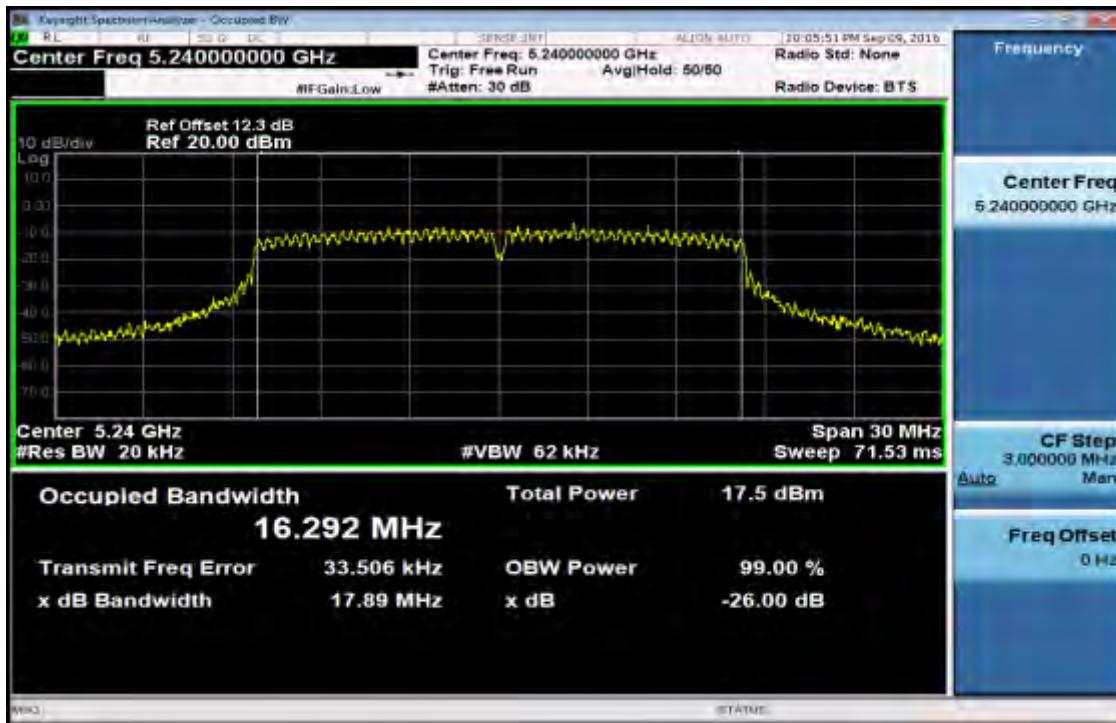
26dB Band Width Test Data CH-Mid (5220MHz)



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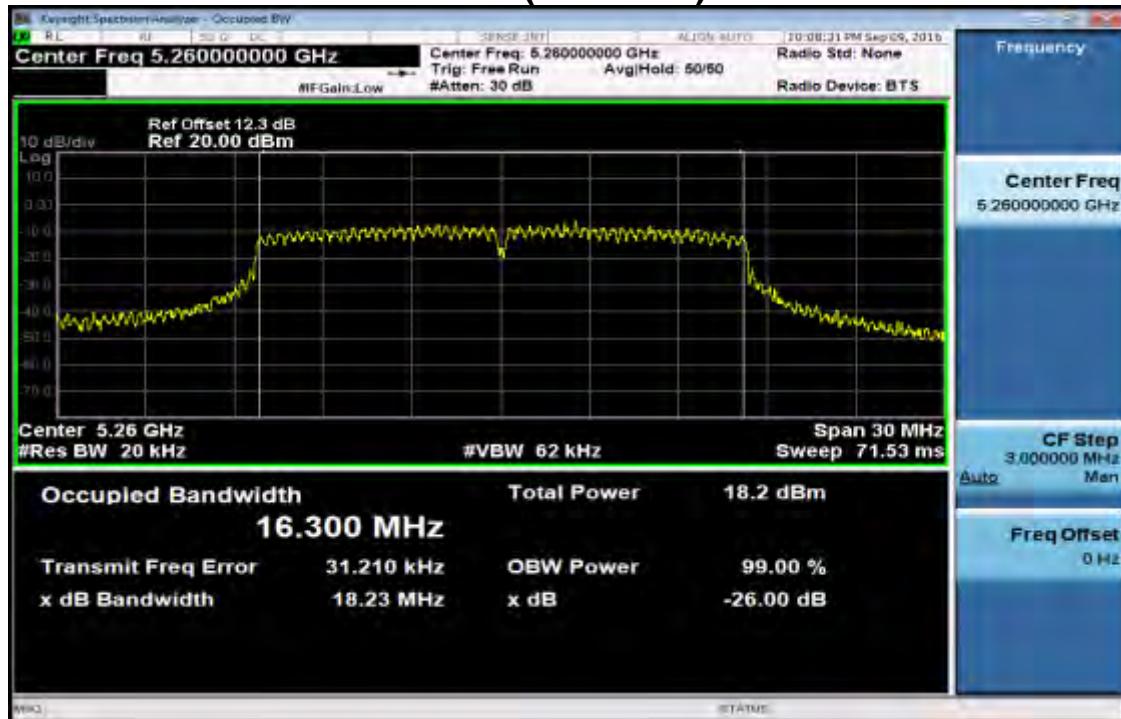
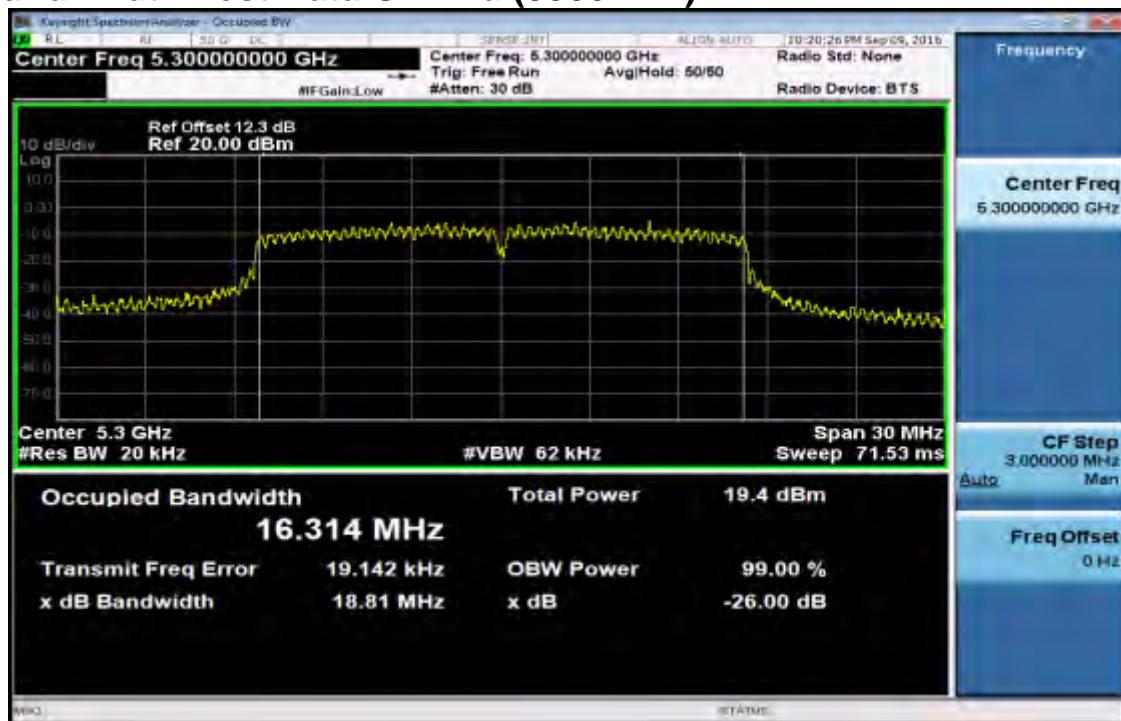
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26dB Band Width Test Data CH-High (5240MHz)

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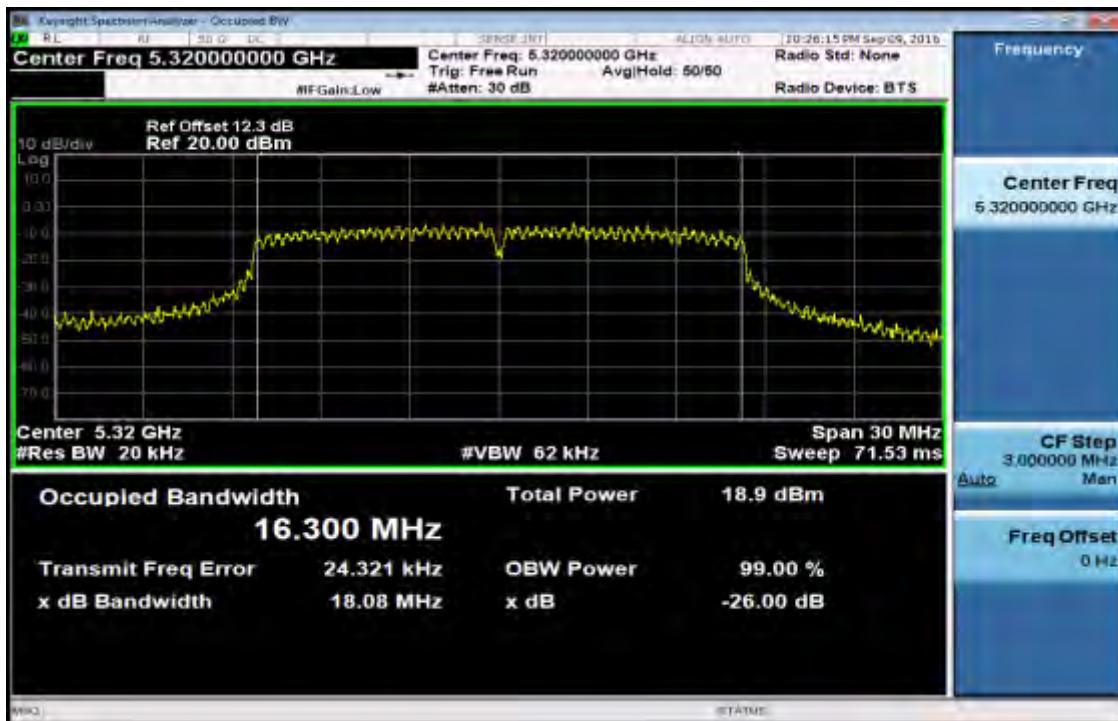
**802.11a, 5250~5350 MHz (Aux)
26dB Band Width Test Data CH-Low (5260MHz)****26dB Band Width Test Data CH-Mid (5300MHz)**

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

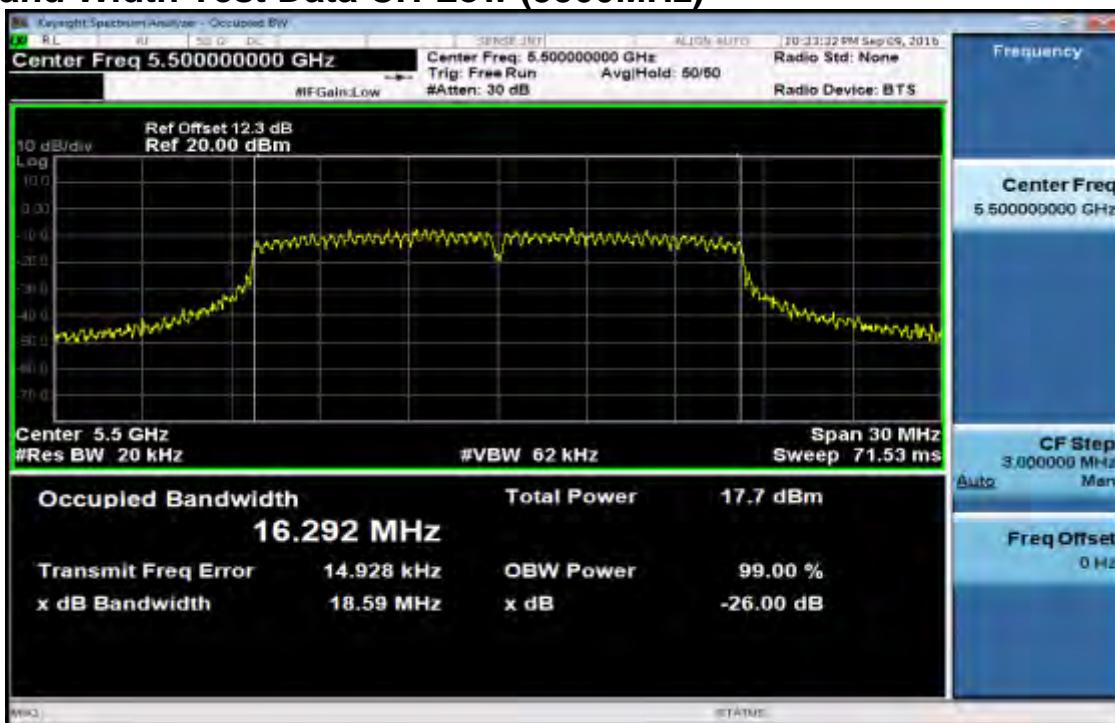
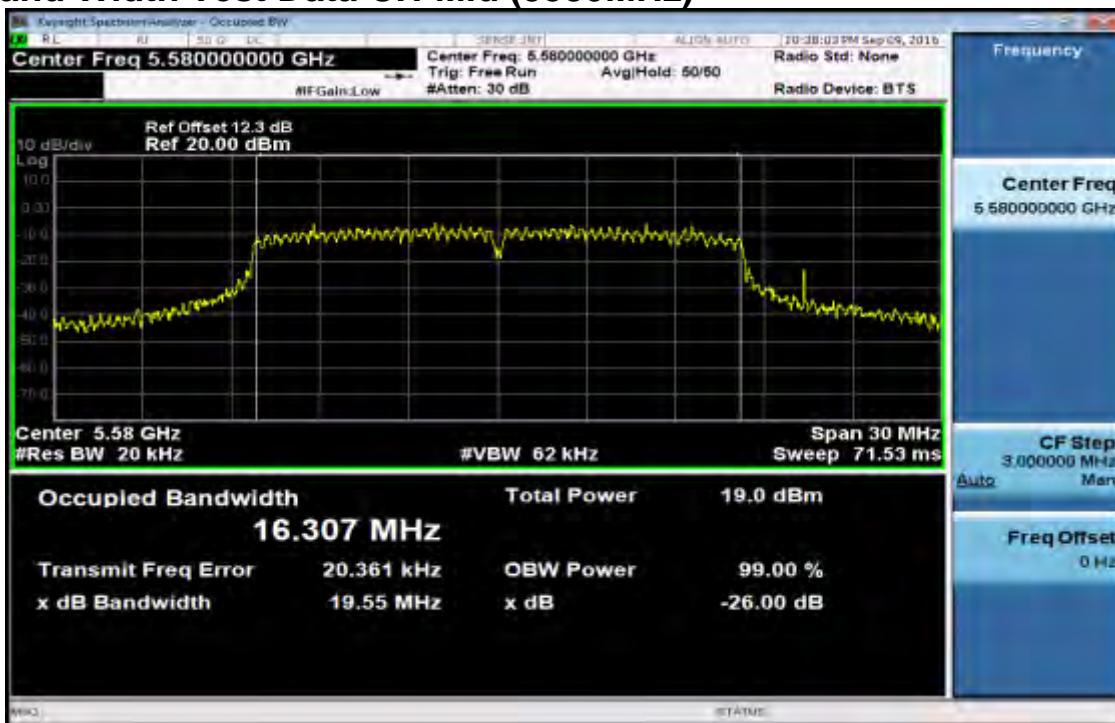


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**802.11a, 5470~5725 MHz (Aux)
26dB Band Width Test Data CH-Low (5500MHz)****26dB Band Width Test Data CH-Mid (5580MHz)**

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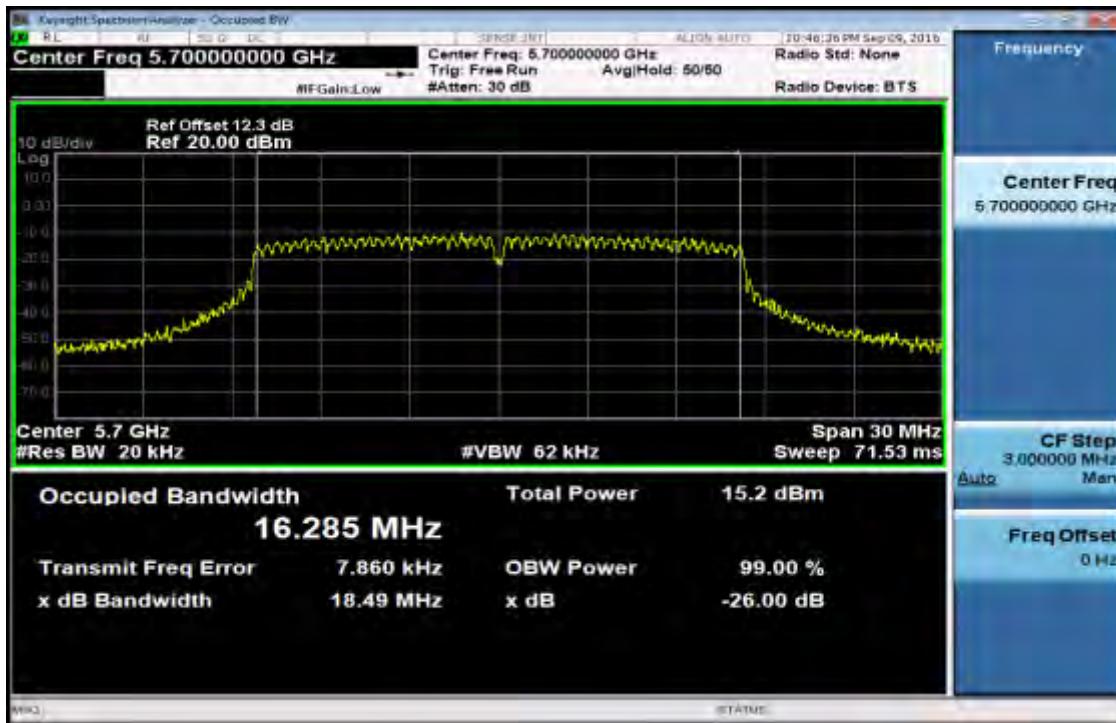
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26dB Band Width Test Data CH-High (5700MHz)

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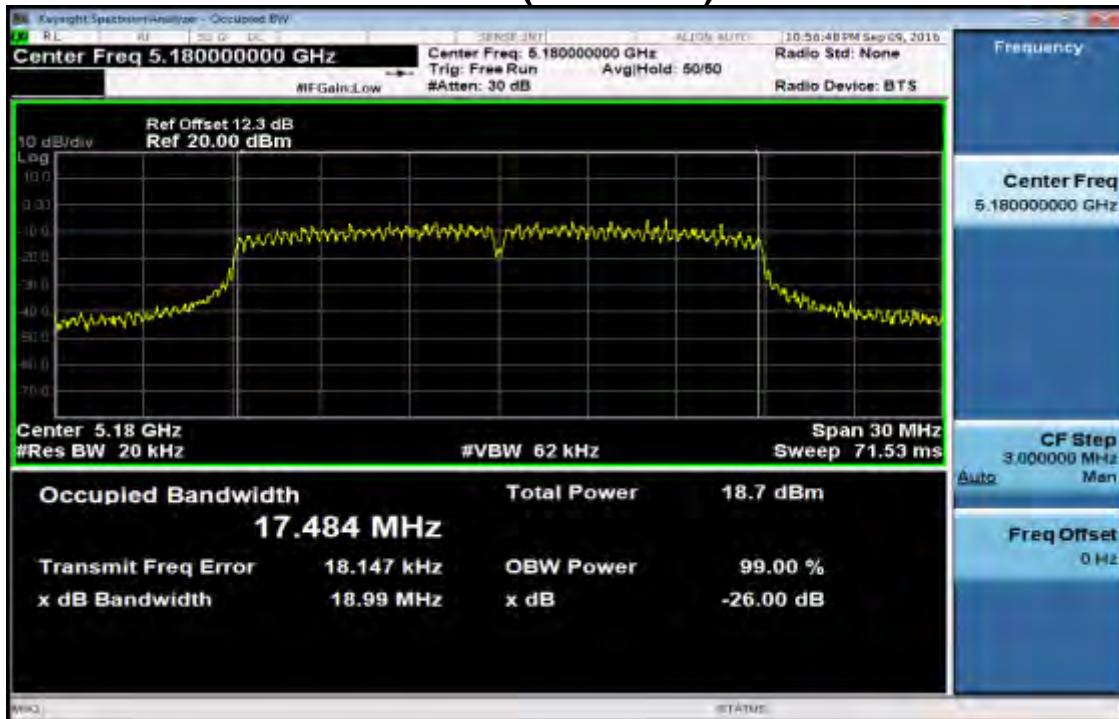
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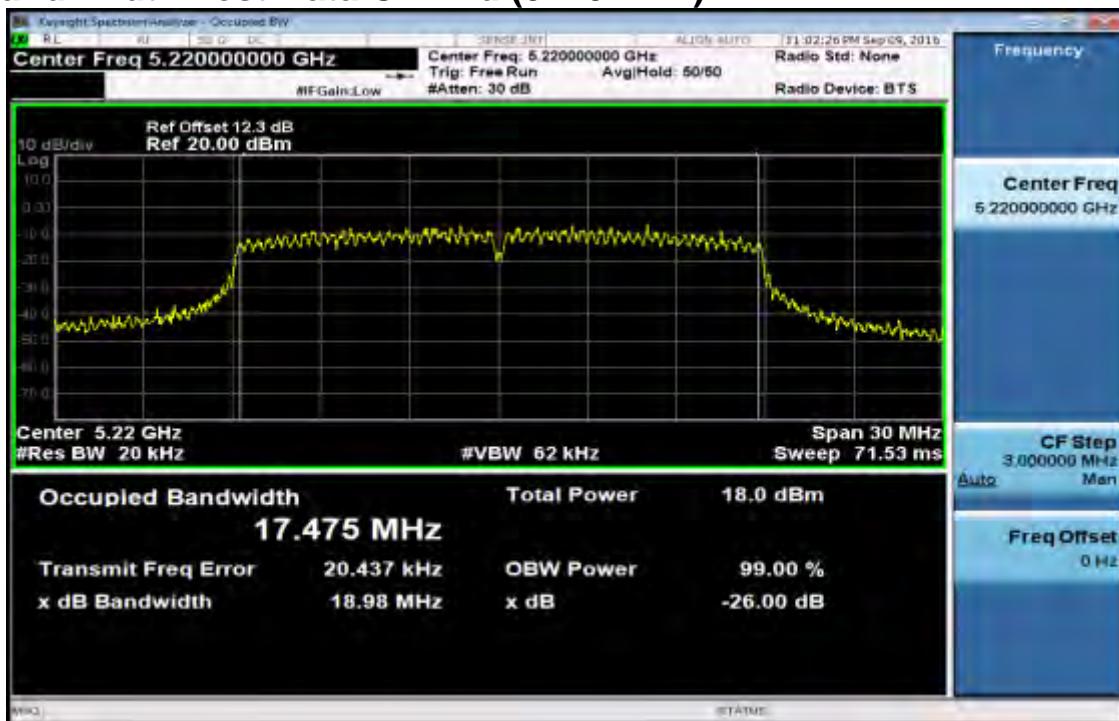
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)



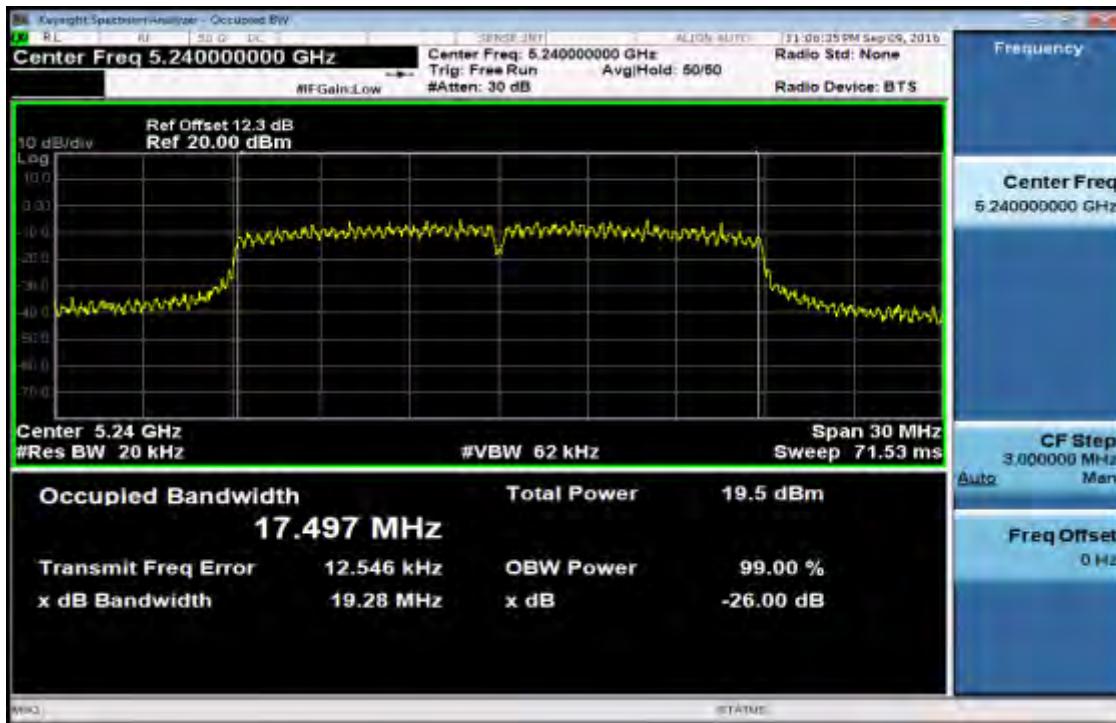
26dB Band Width Test Data CH-Mid (5220 MHz)



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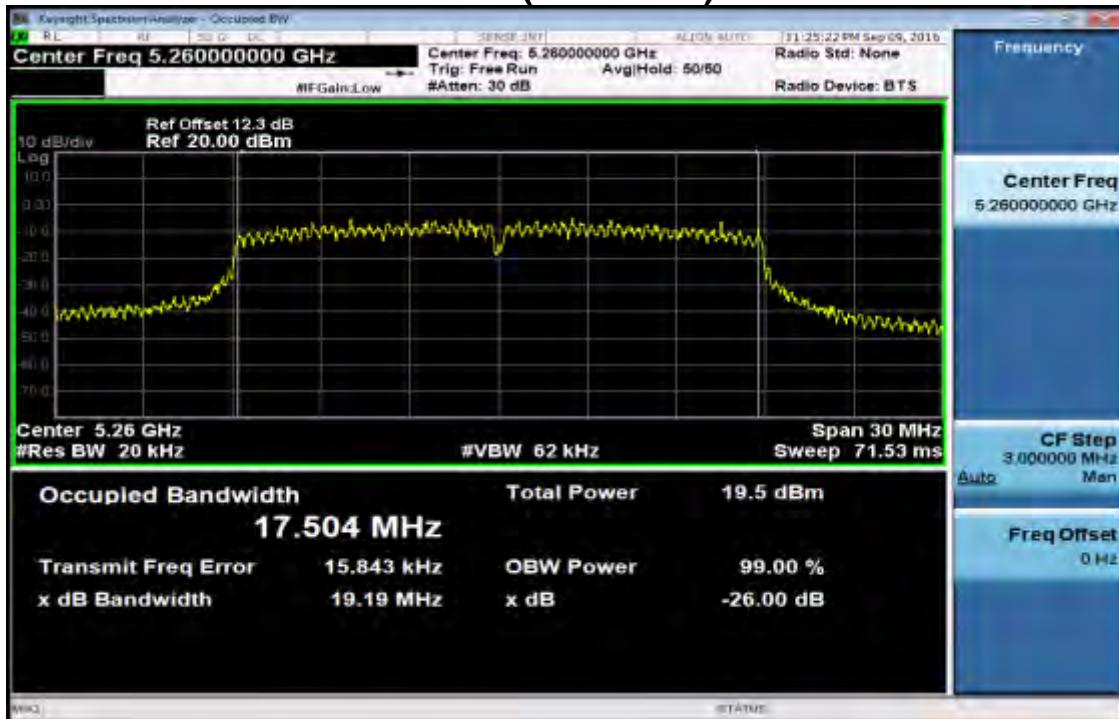
26dB Band Width Test Data CH-High (5240 MHz)

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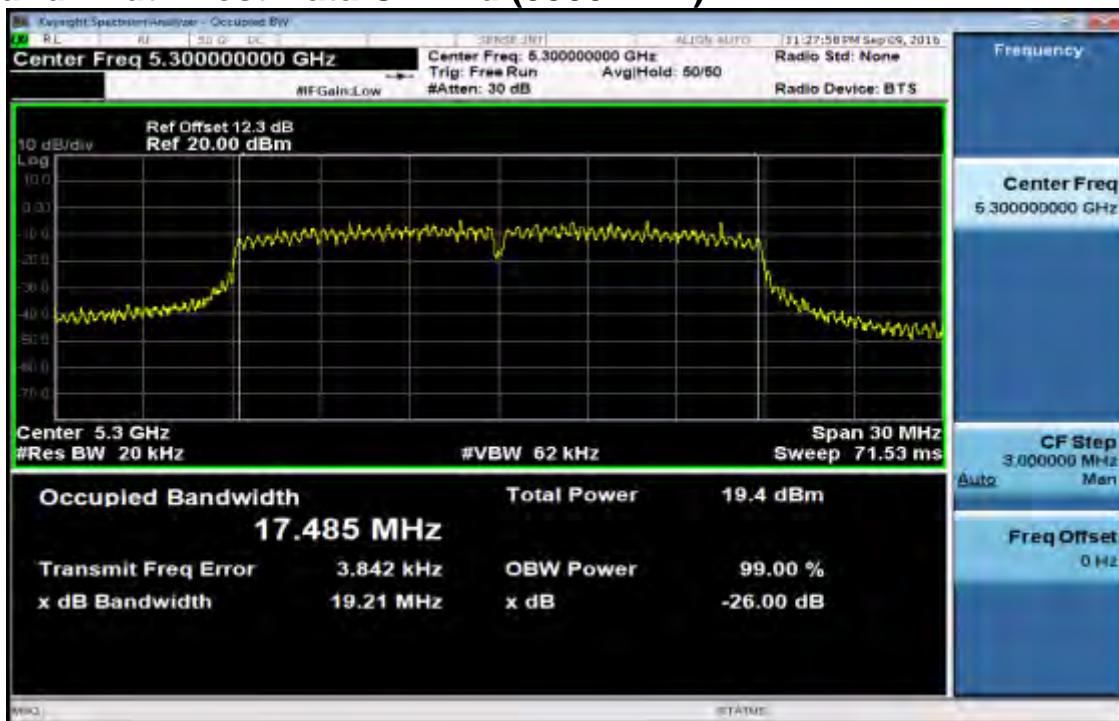
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)



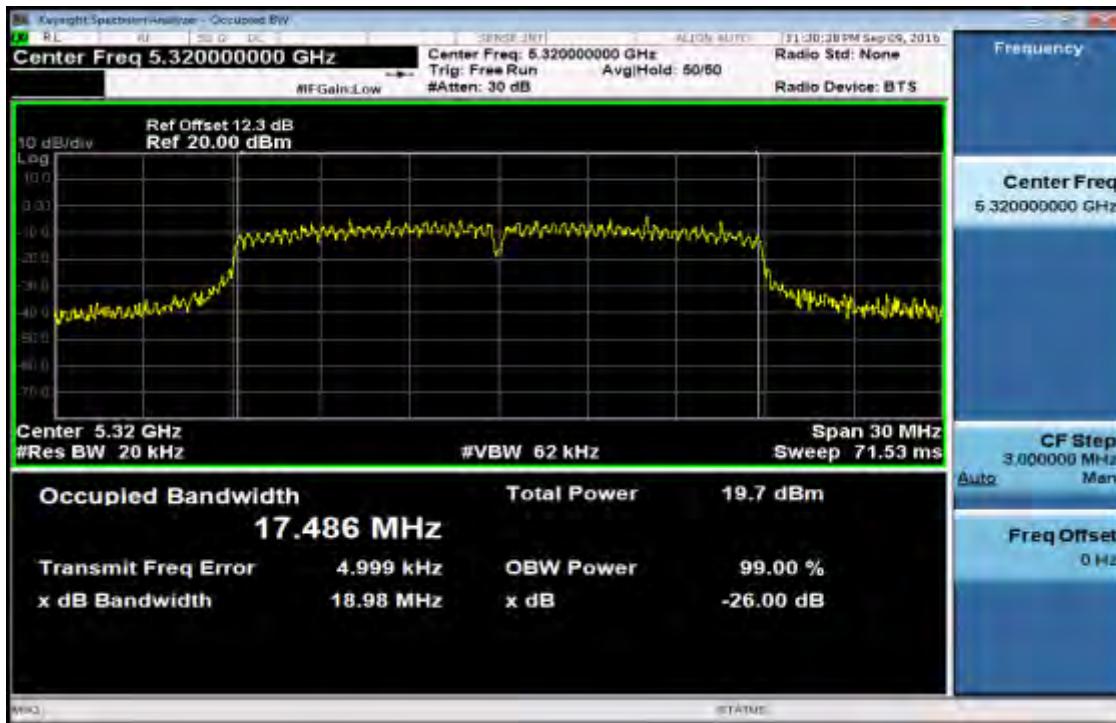
26dB Band Width Test Data CH-Mid (5300 MHz)



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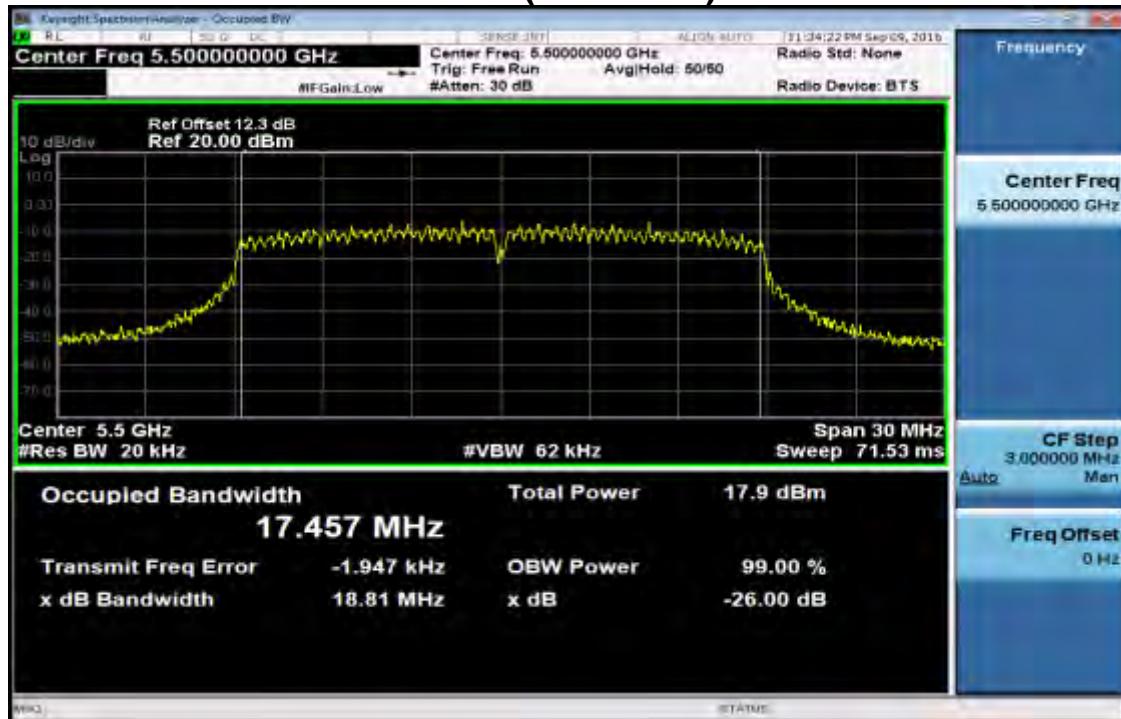
26dB Band Width Test Data CH-High (5320 MHz)

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.

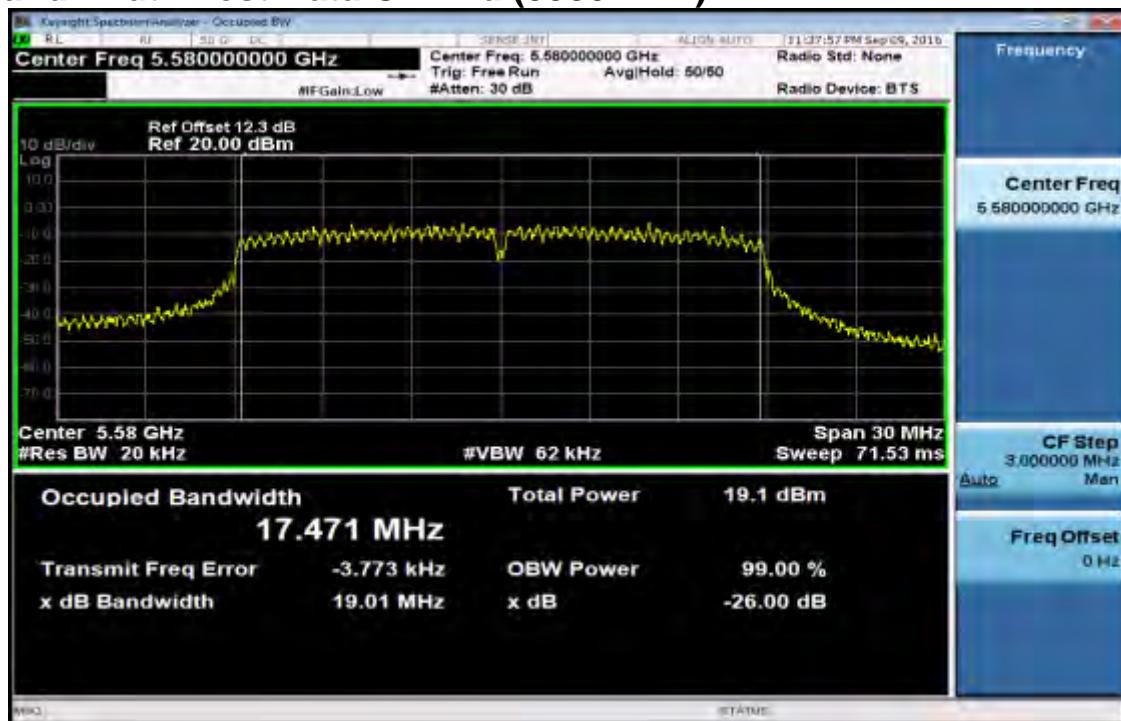
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)



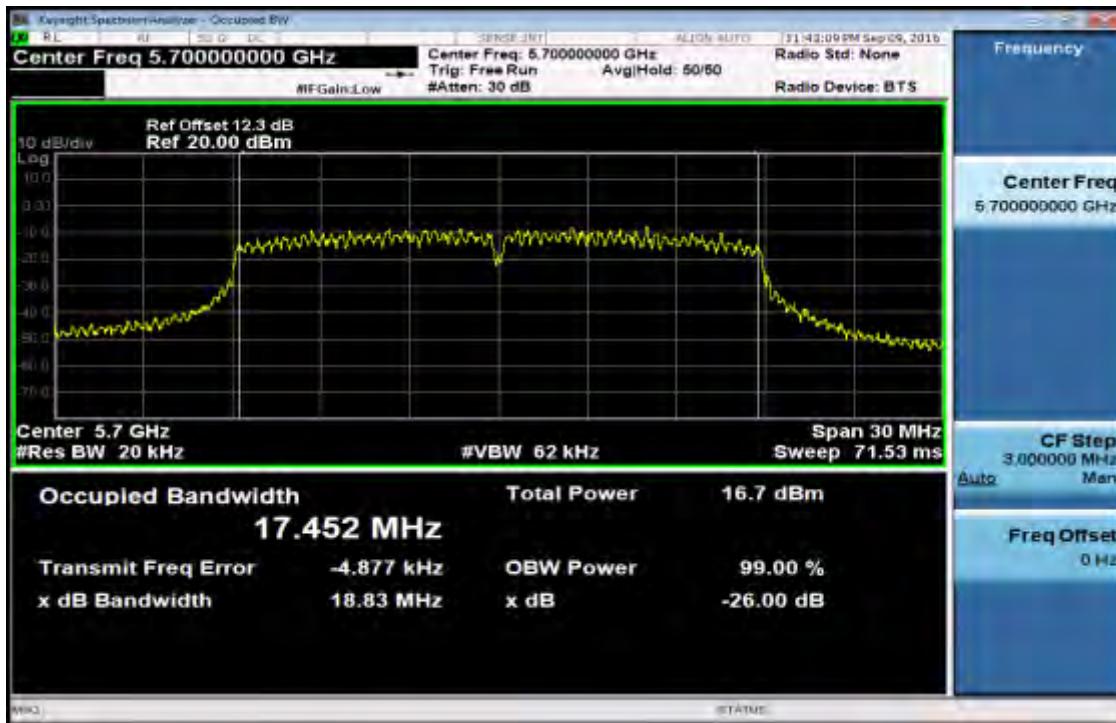
26dB Band Width Test Data CH-Mid (5580 MHz)



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

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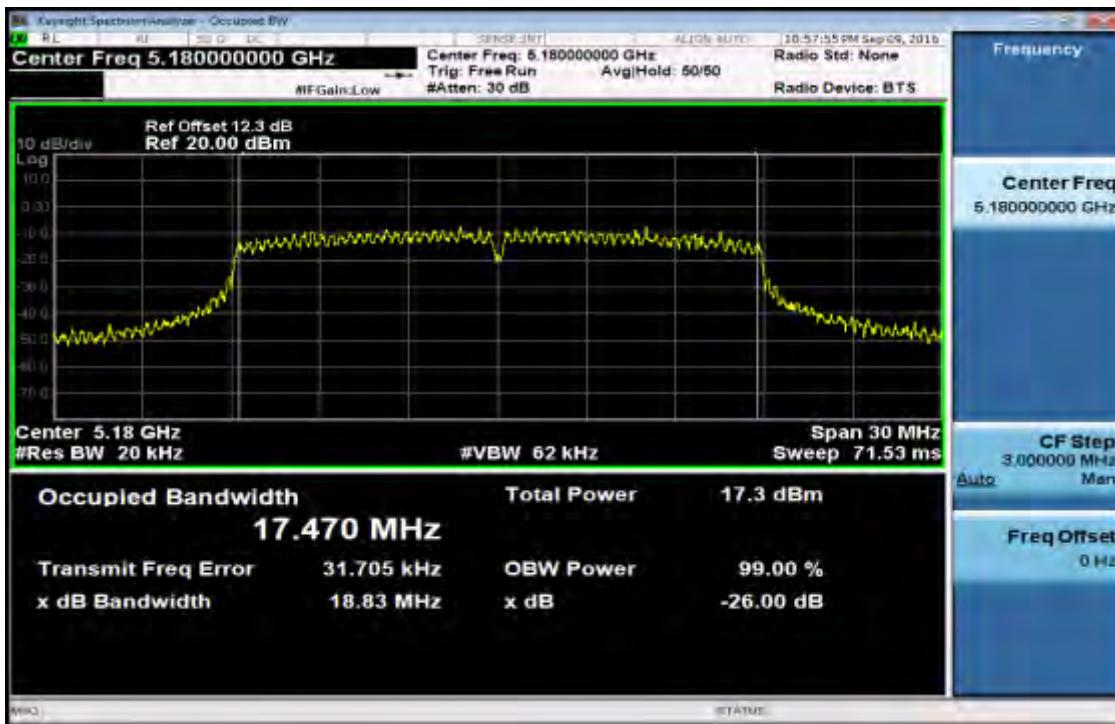
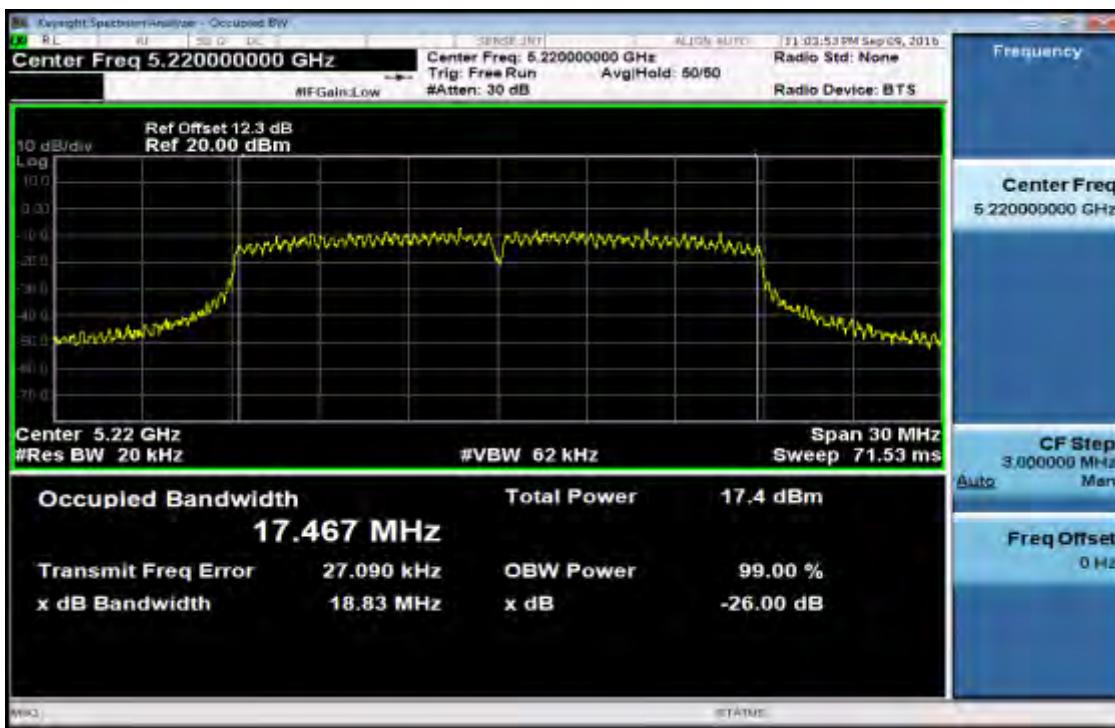
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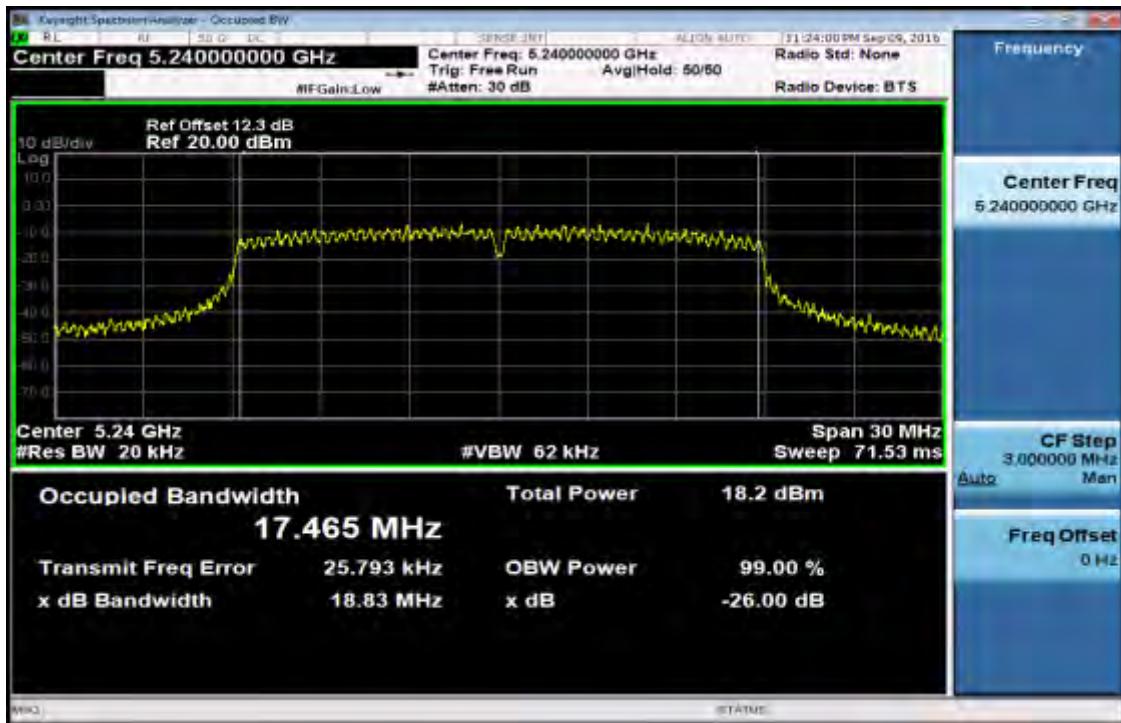
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**802.11n HT20, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5180 MHz)****26dB Band Width Test Data CH-Mid (5220 MHz)**

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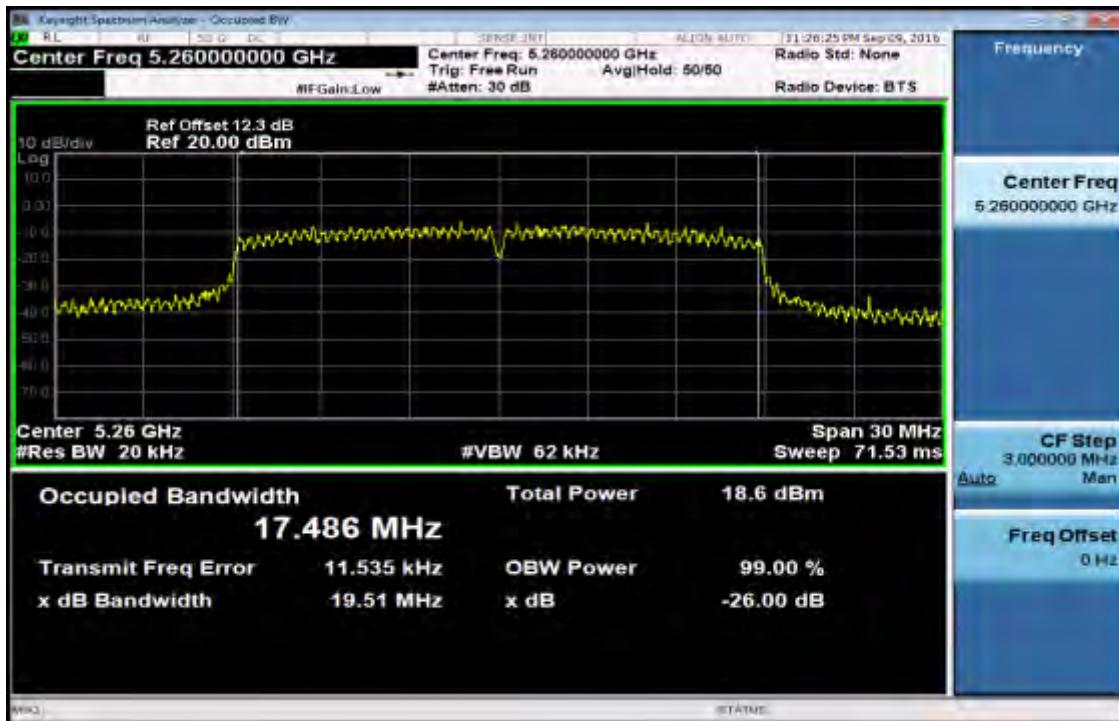
26dB Band Width Test Data CH-High (5240 MHz)

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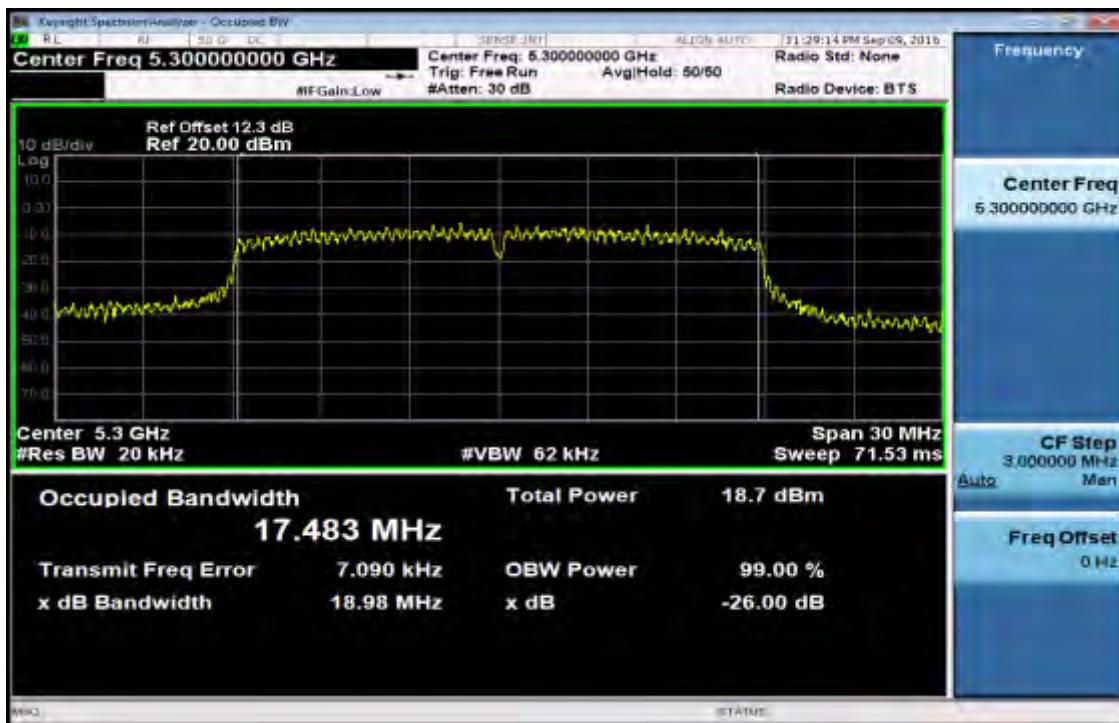
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802.11n HT20, 5250~5350 MHz (Aux1) 26dB Band Width Test Data CH-Low (5260 MHz)



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

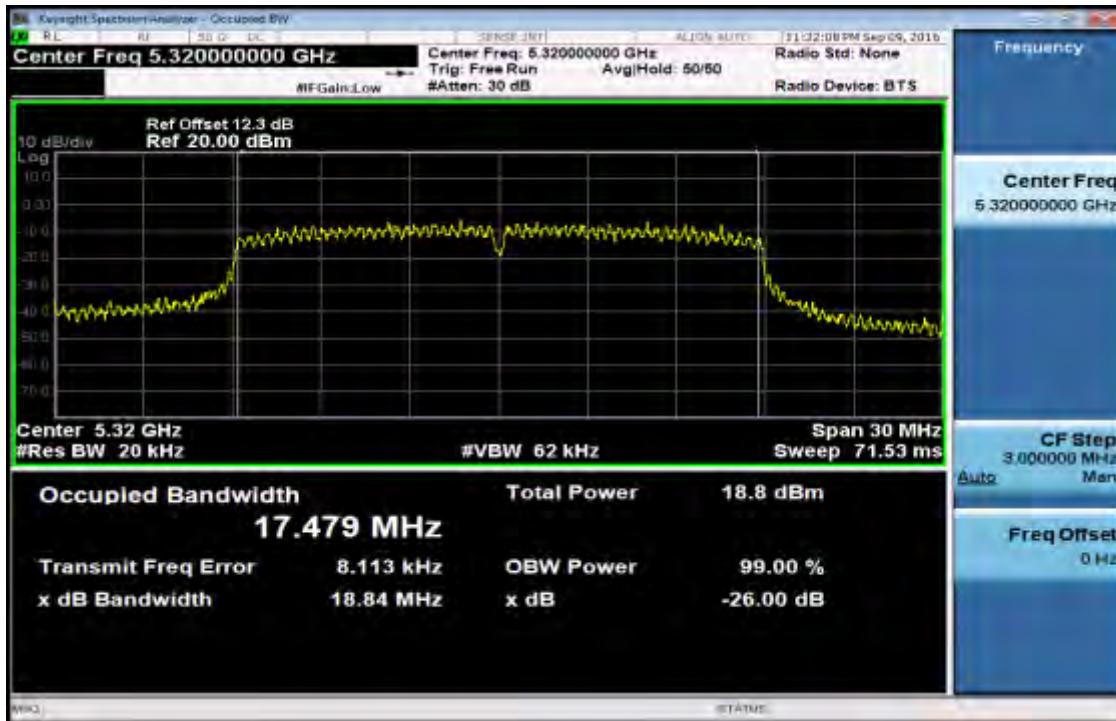


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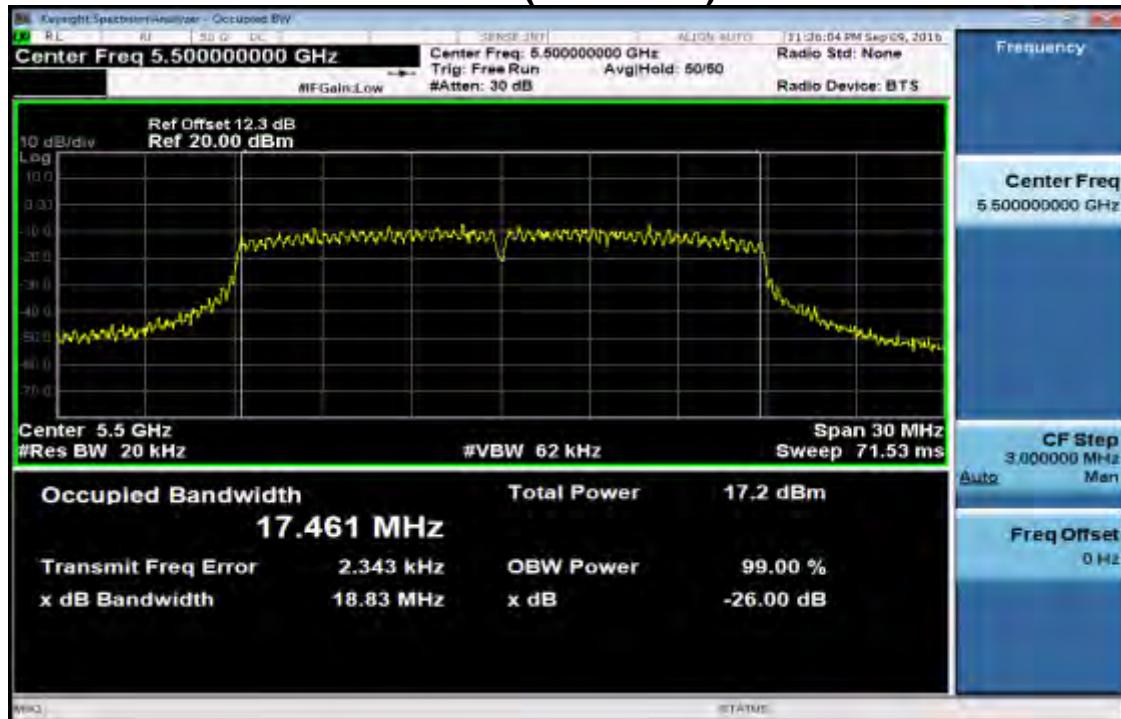
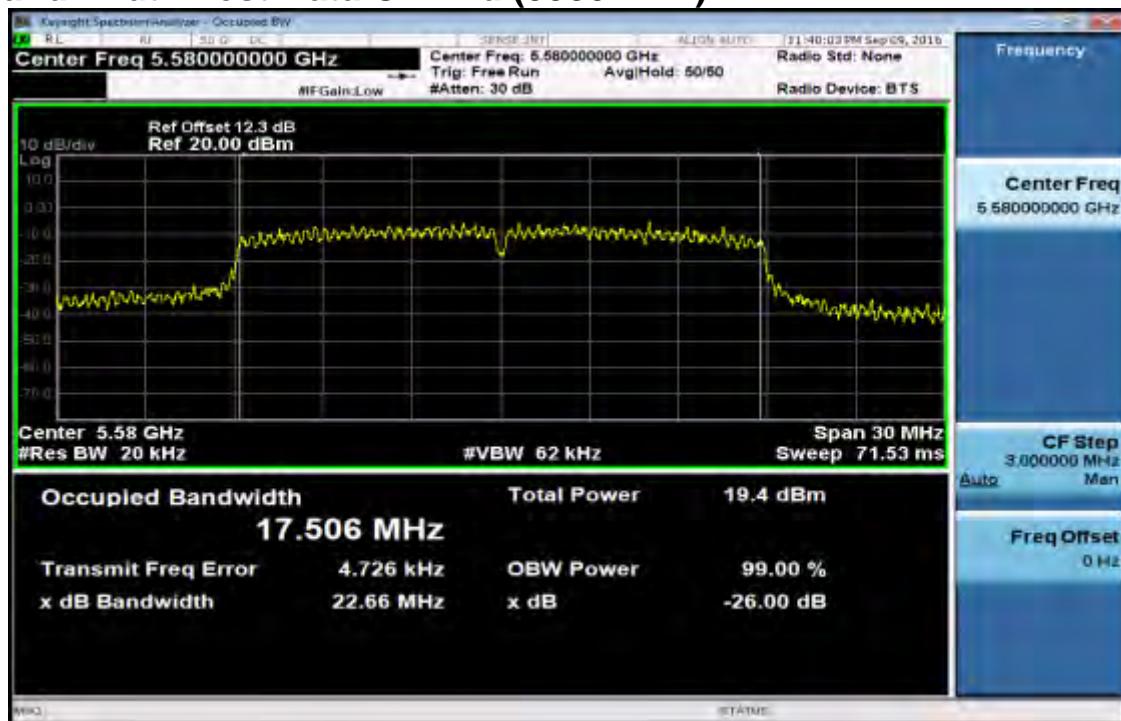
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26dB Band Width Test Data CH-High (5320 MHz)

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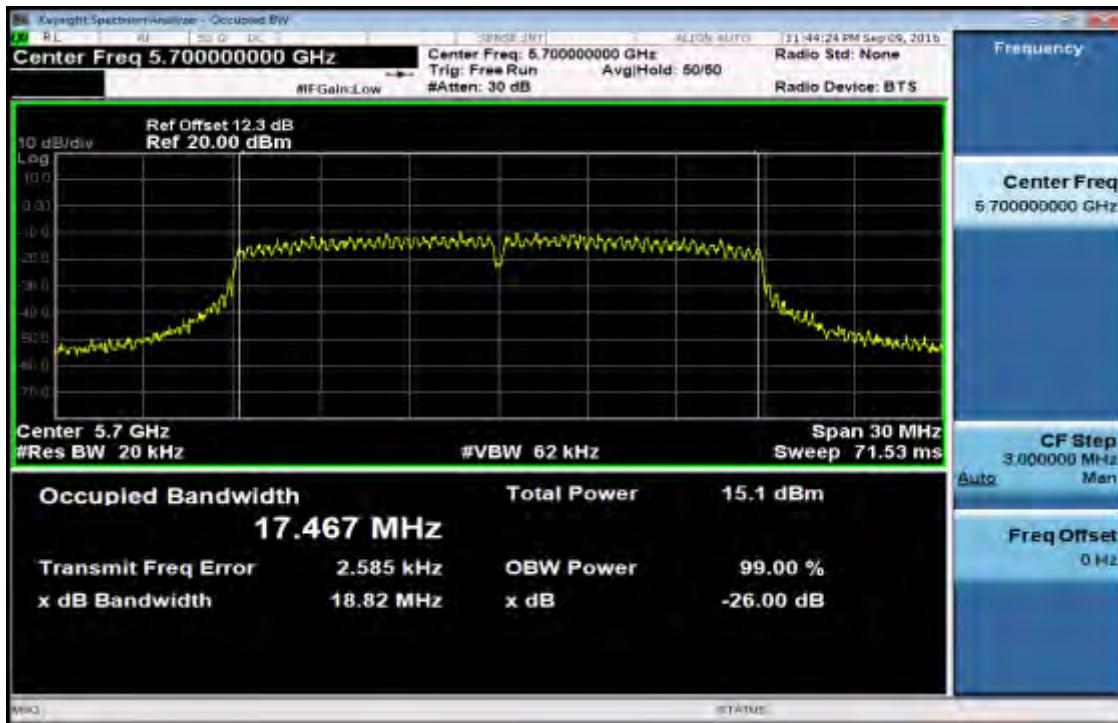
**802.11n HT20, 5470~5725 MHz (Aux1)
26dB Band Width Test Data CH-Low (5500 MHz)****26dB Band Width Test Data CH-Mid (5580 MHz)**

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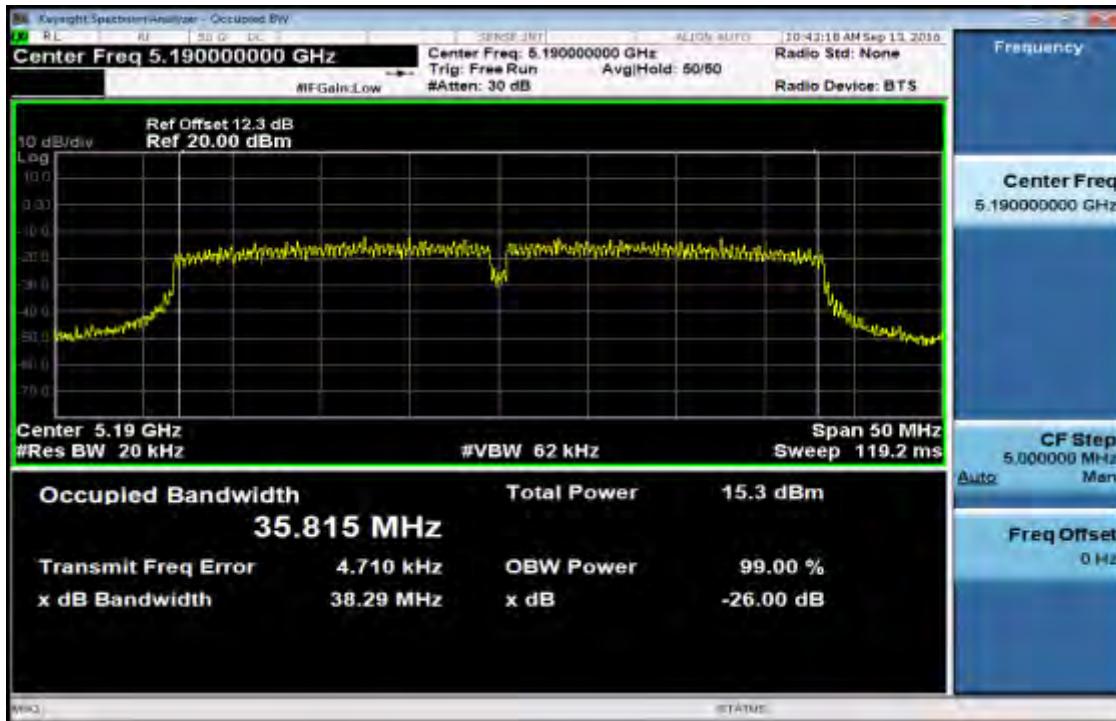
26dB Band Width Test Data CH-High (5700 MHz)

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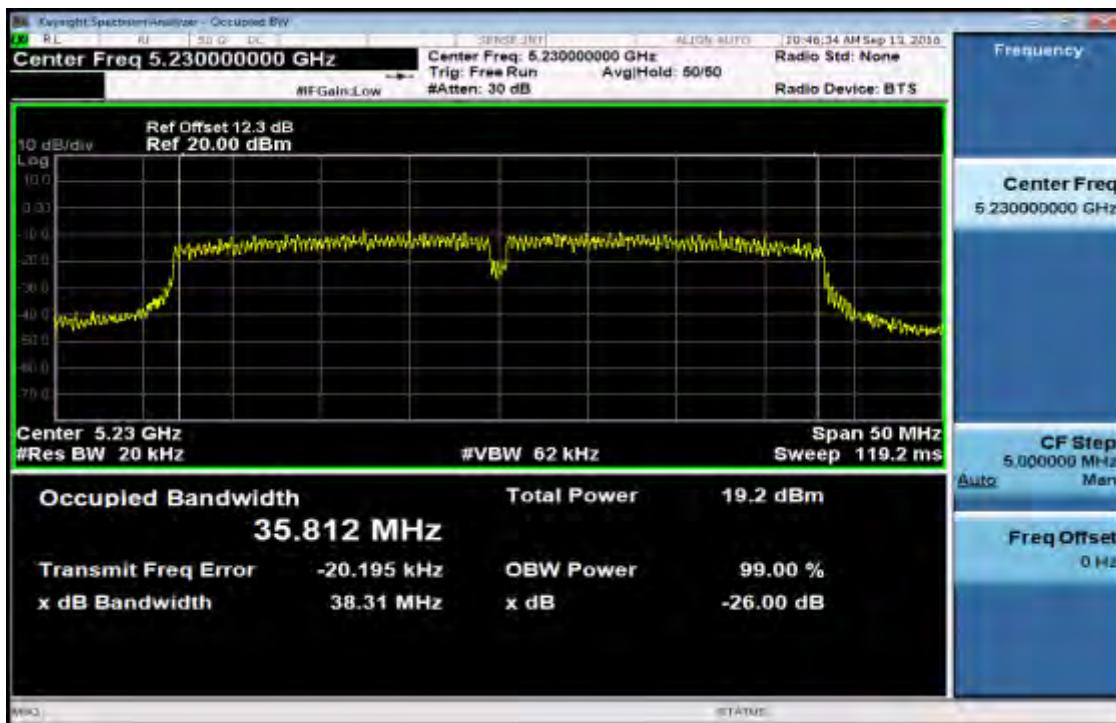
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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

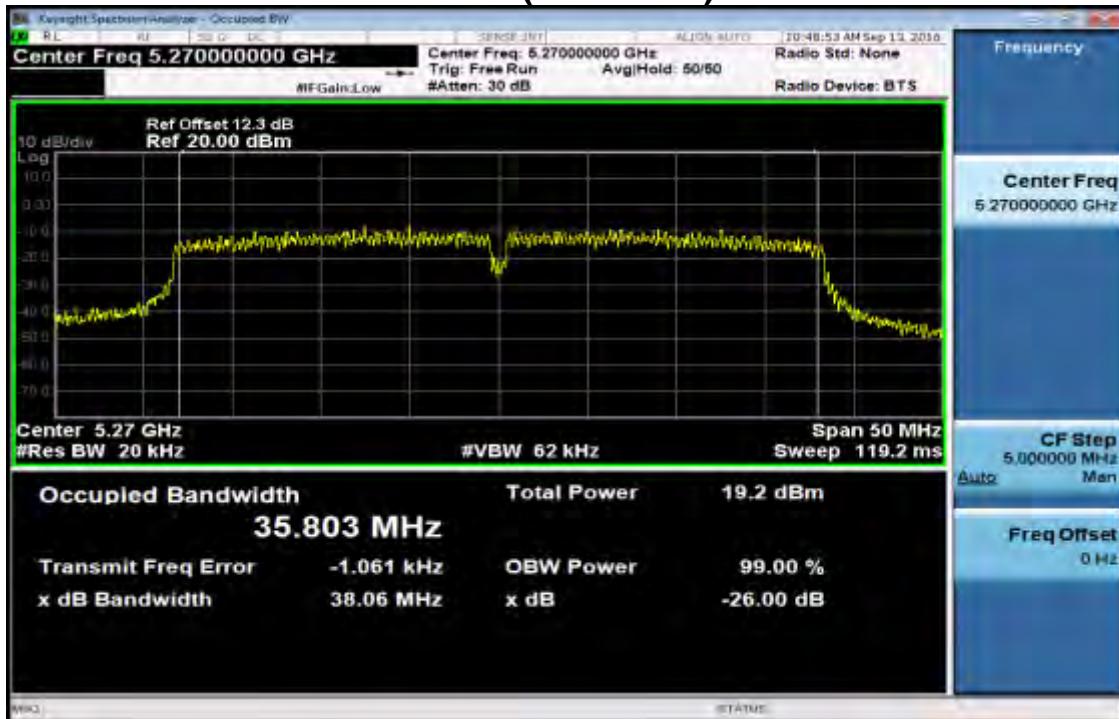


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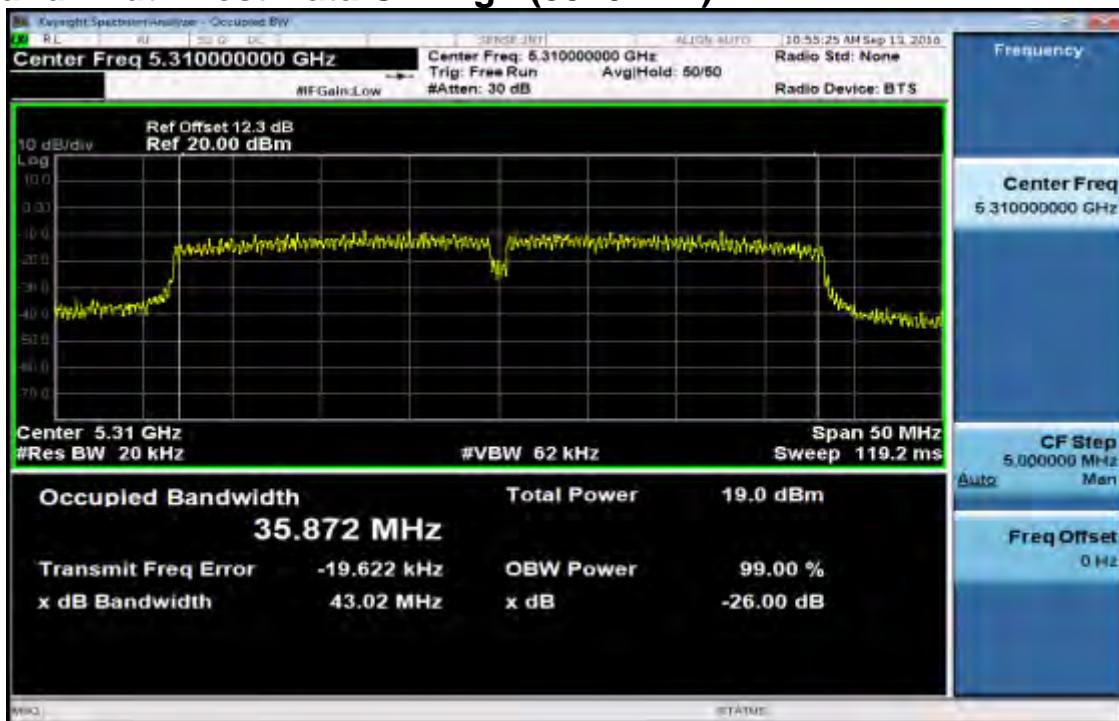
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802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



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

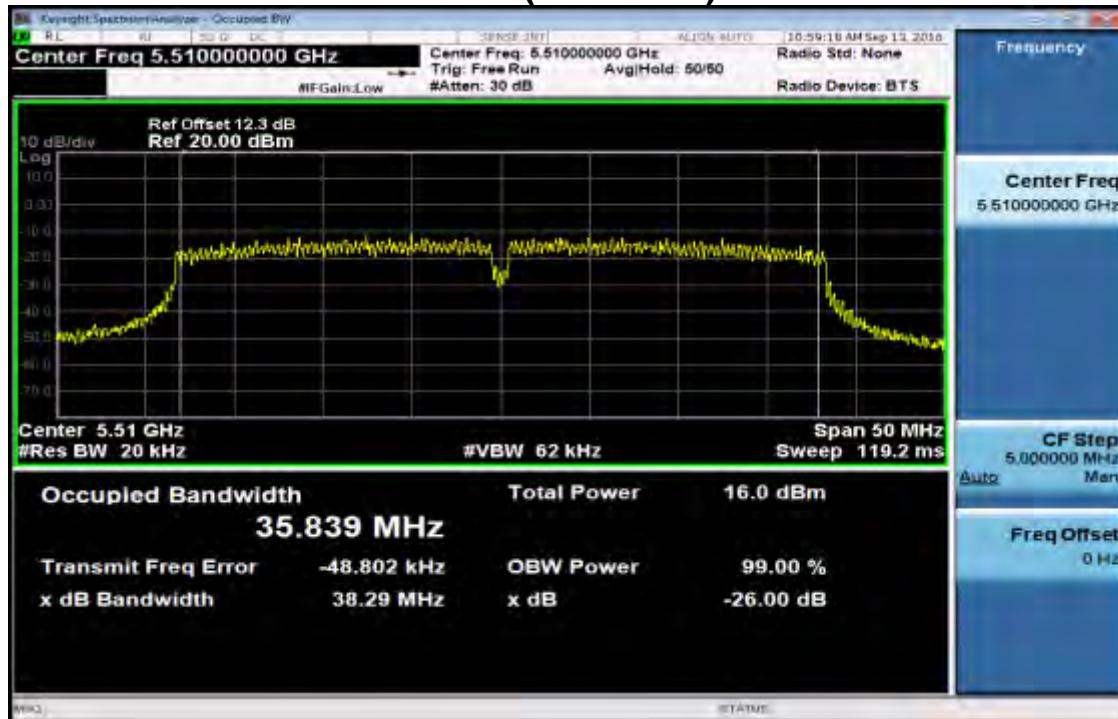


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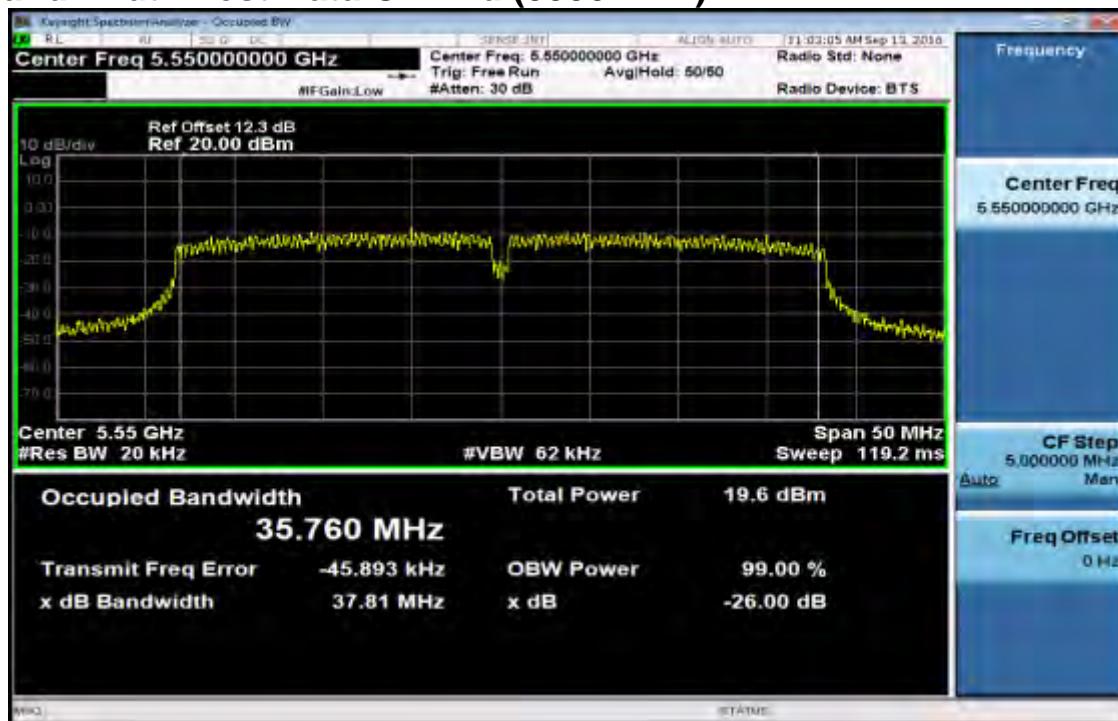
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)



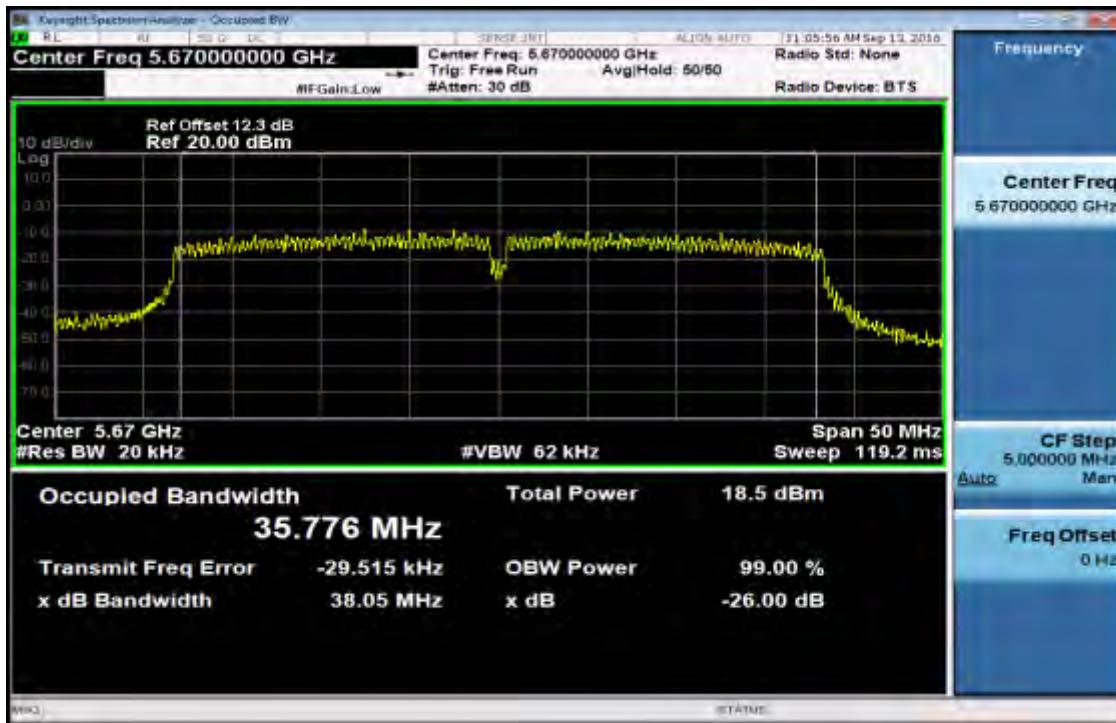
26dB Band Width Test Data CH-Mid (5550 MHz)



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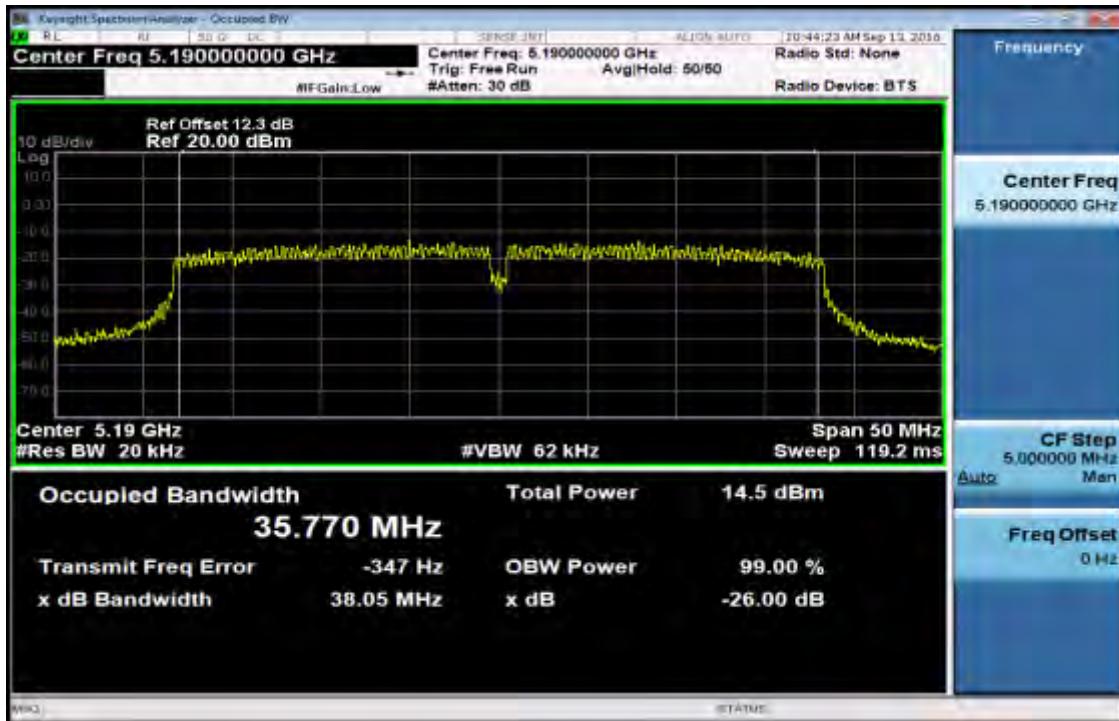
26dB Band Width Test Data CH-High (5670 MHz)

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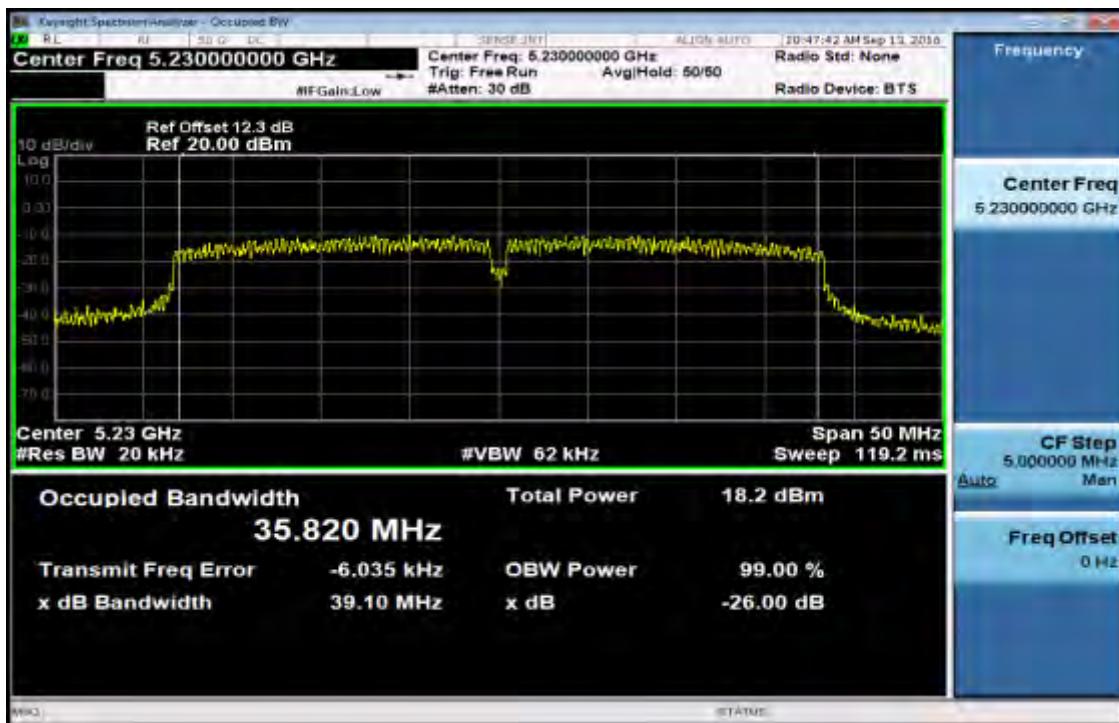
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802.11n HT40, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Low (5190 MHz)



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

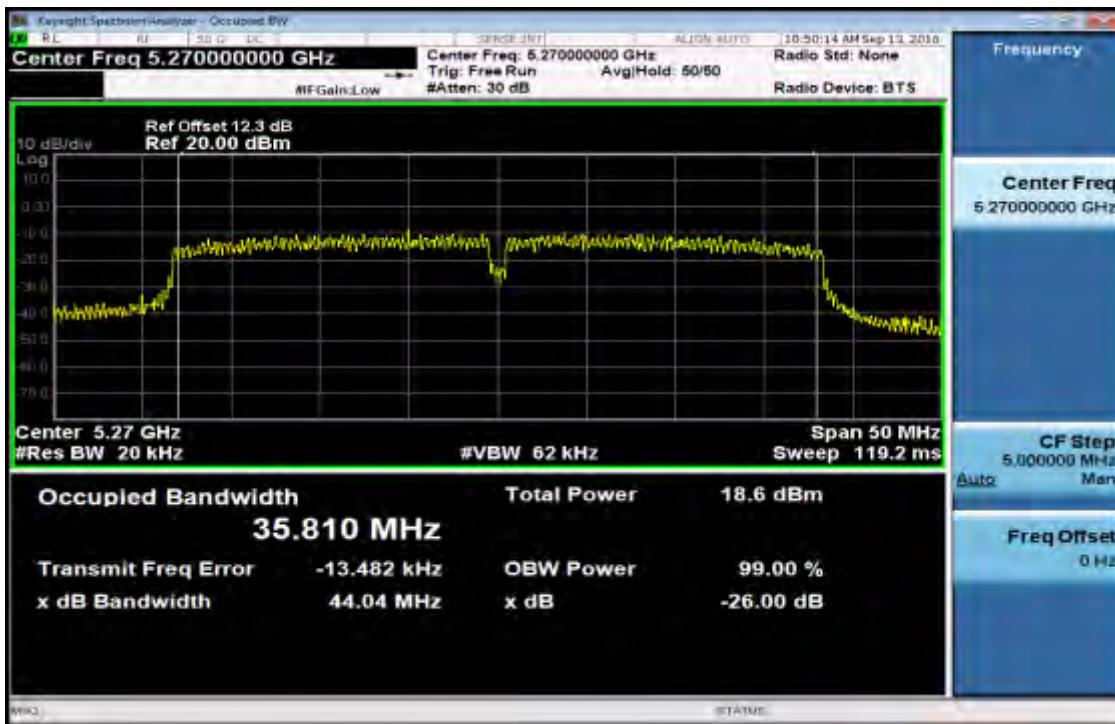


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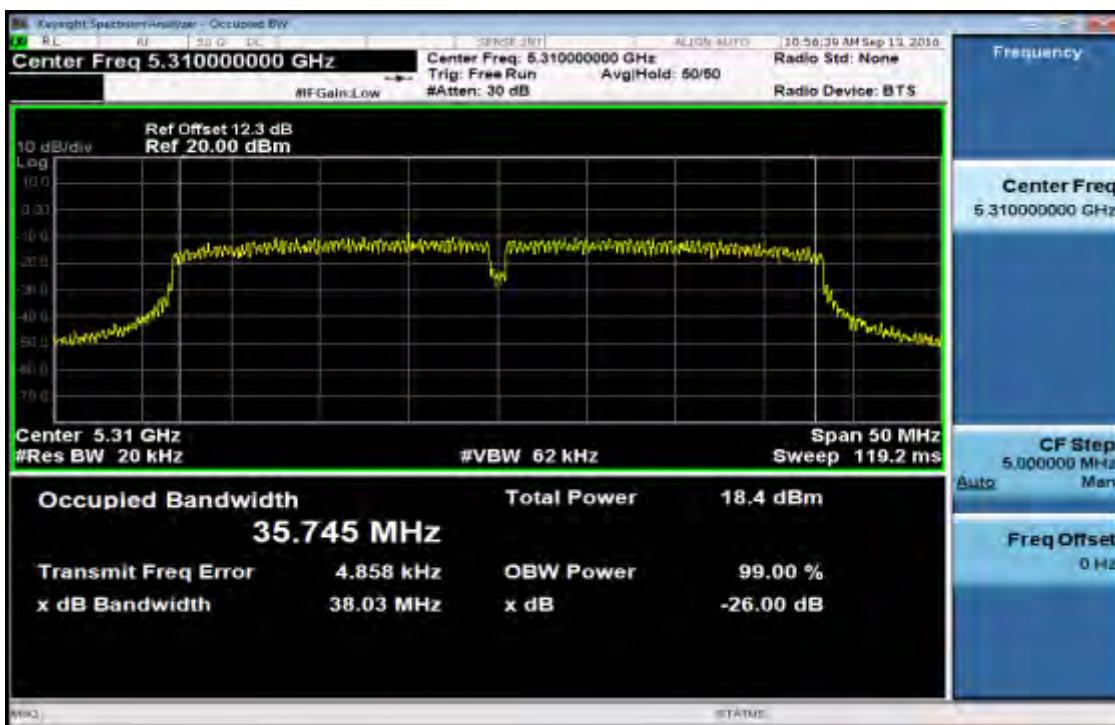
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802.11n HT40, 5250~5350 MHz (Aux1) 26dB Band Width Test Data CH-Low (5270 MHz)



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



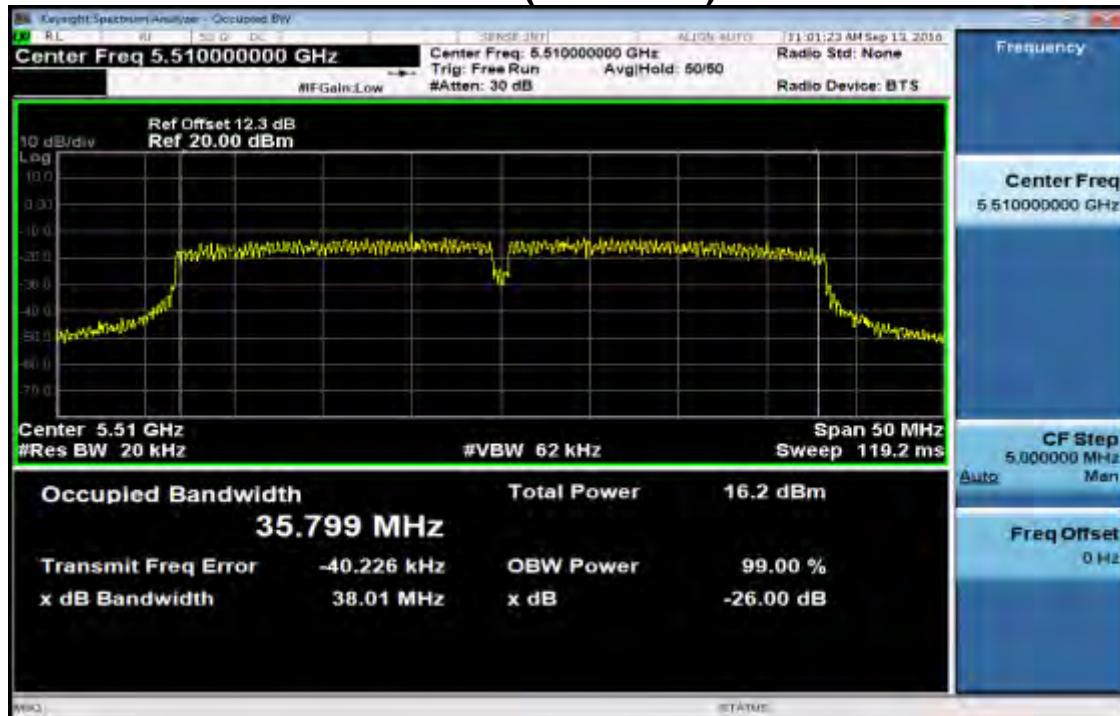
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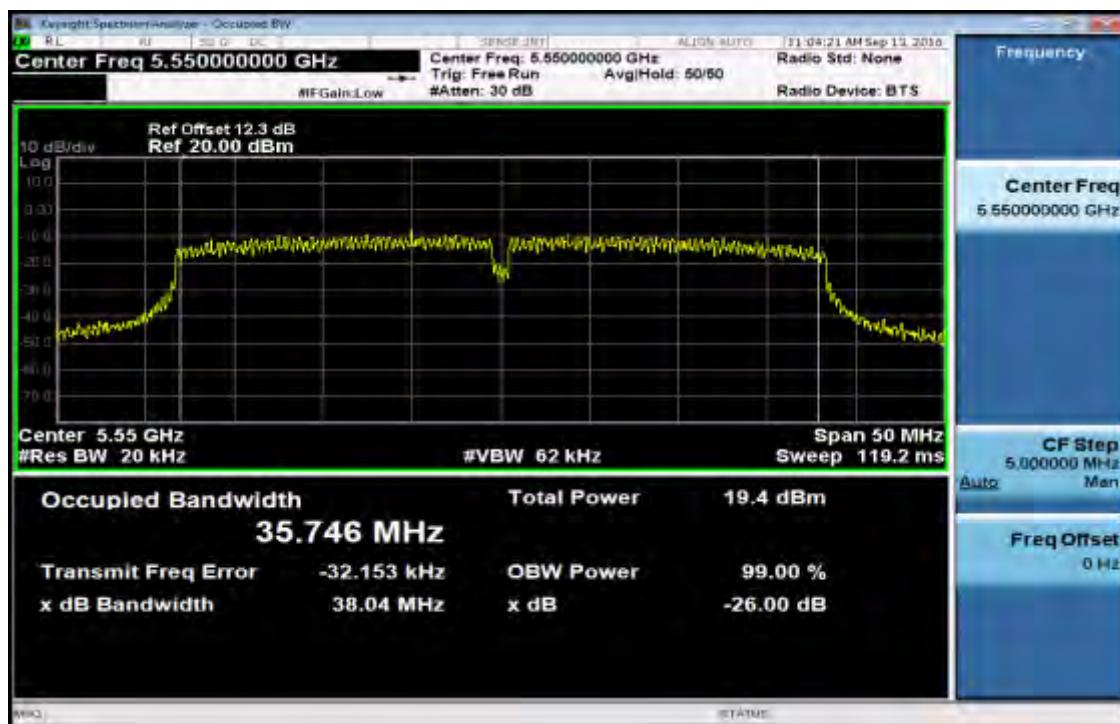
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802.11n HT40, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5510 MHz)



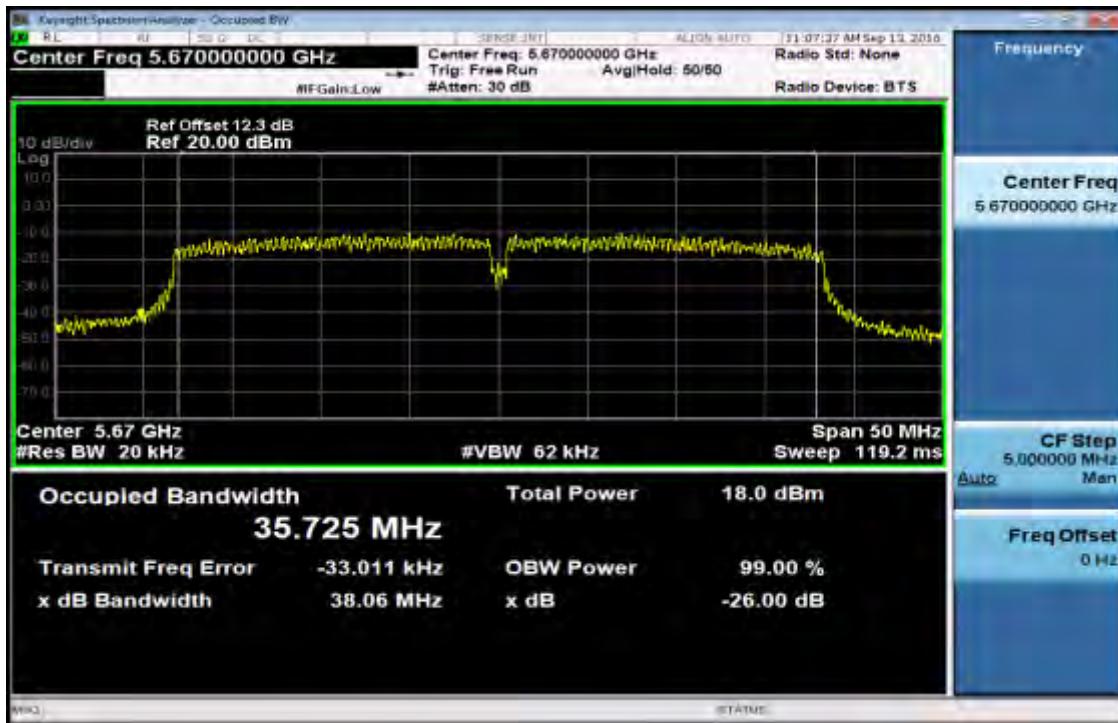
26dB Band Width Test Data CH-Mid (5550 MHz)



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

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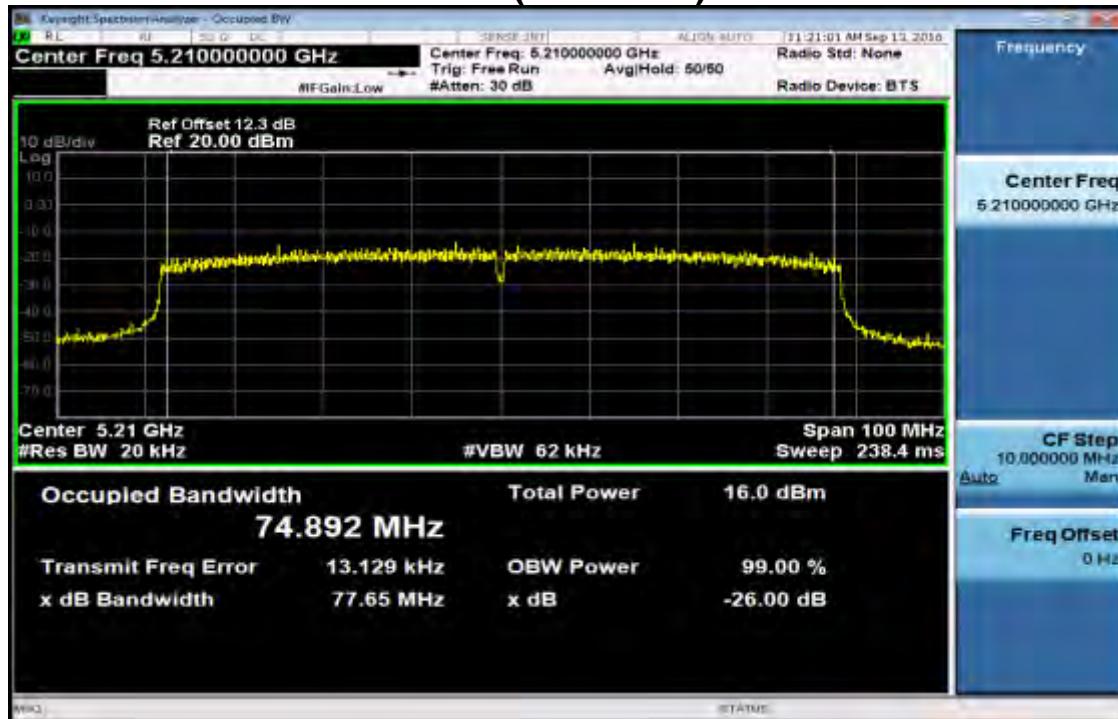
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f (886-2) 2298-0488

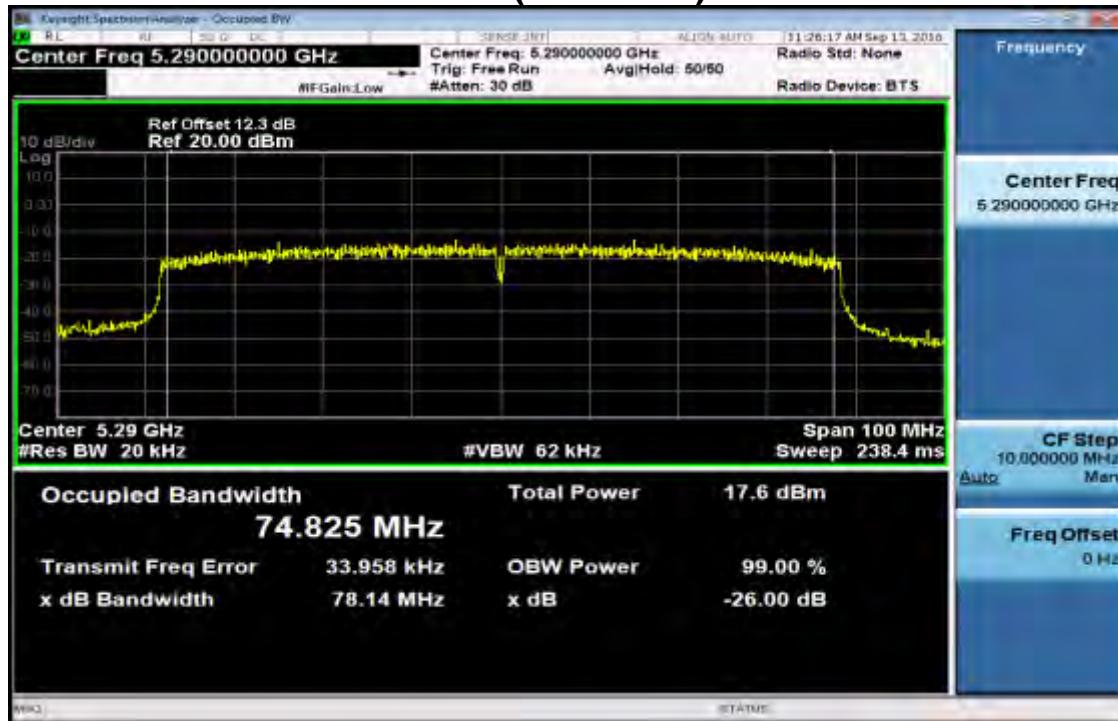
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



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

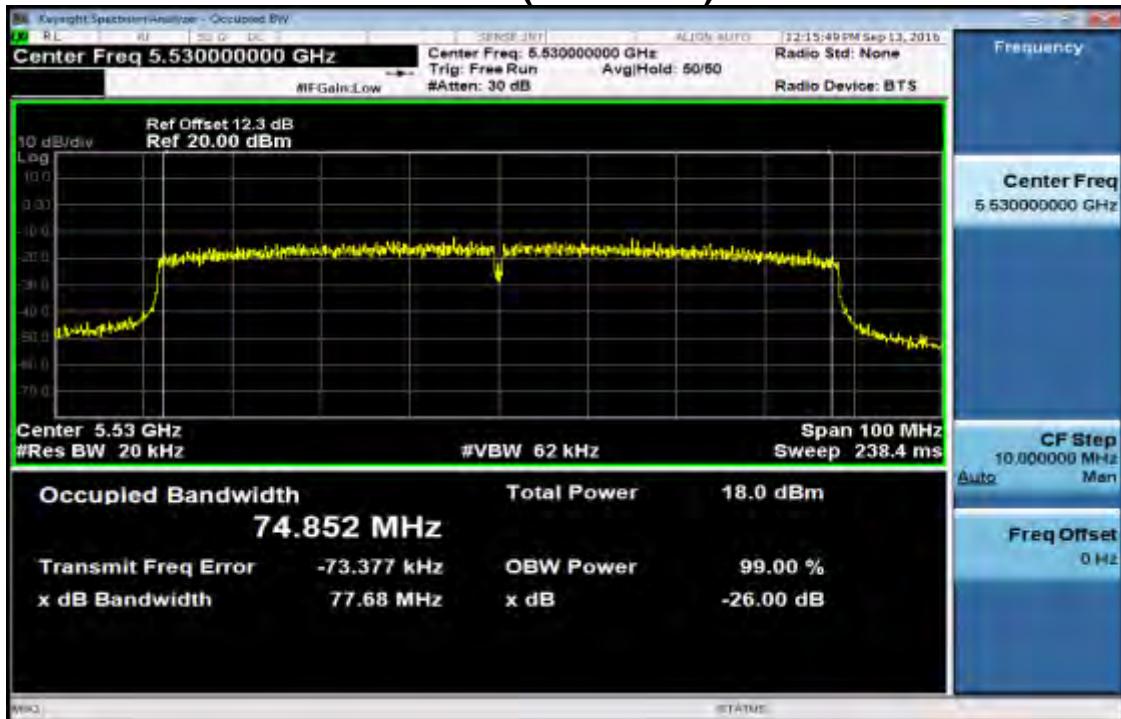


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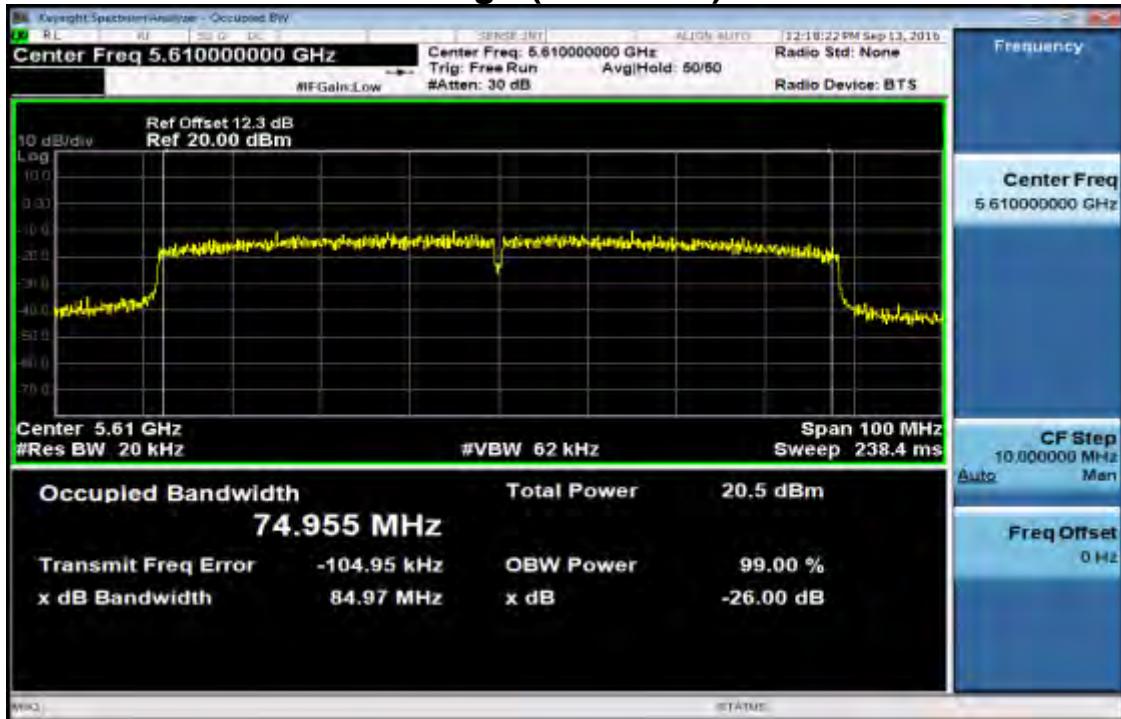
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-High (5610 MHz)



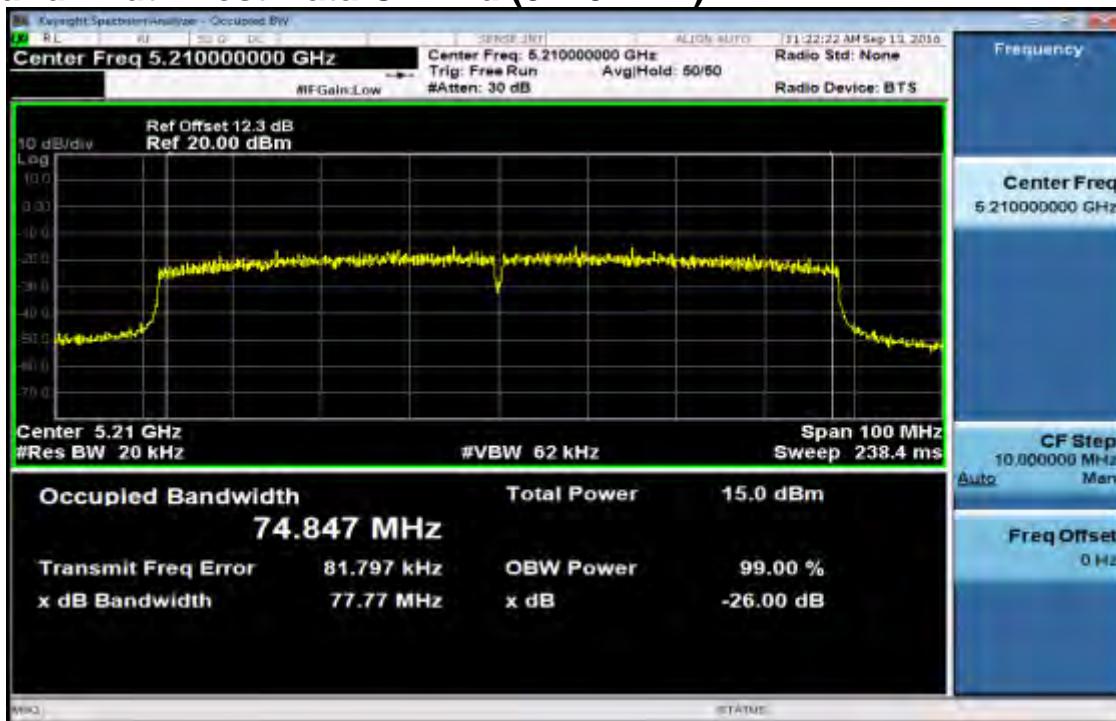
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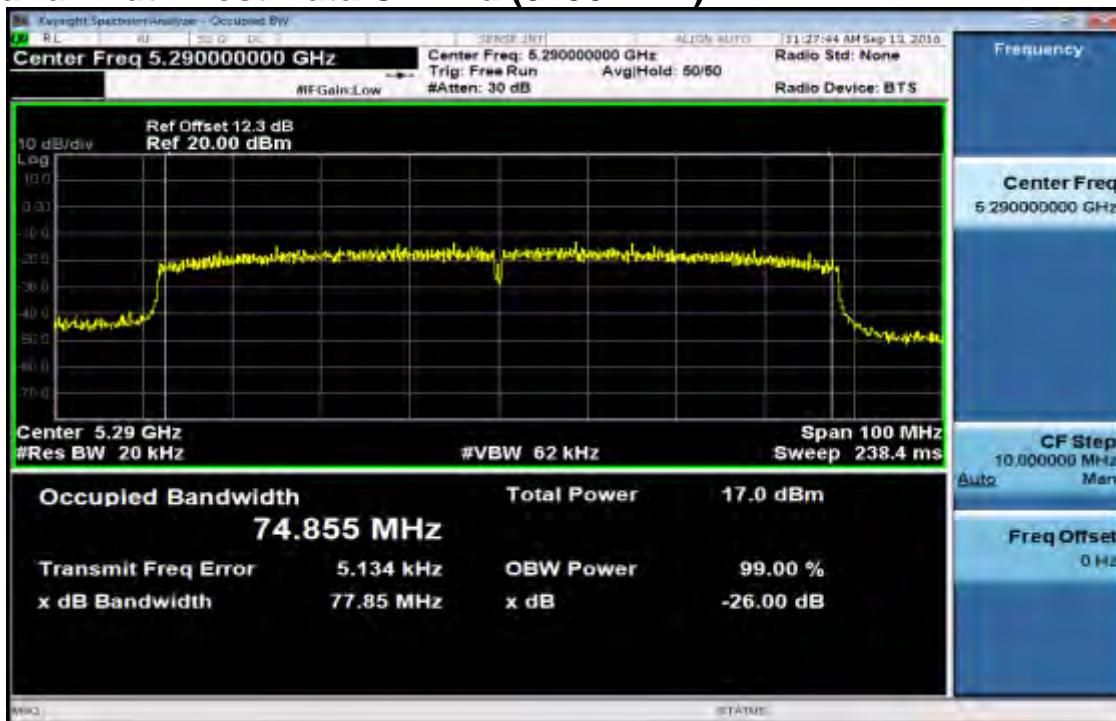
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802.11ac VHT80, 5150~5250 MHz (Aux1) 26dB Band Width Test Data CH-Mid (5210 MHz)



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

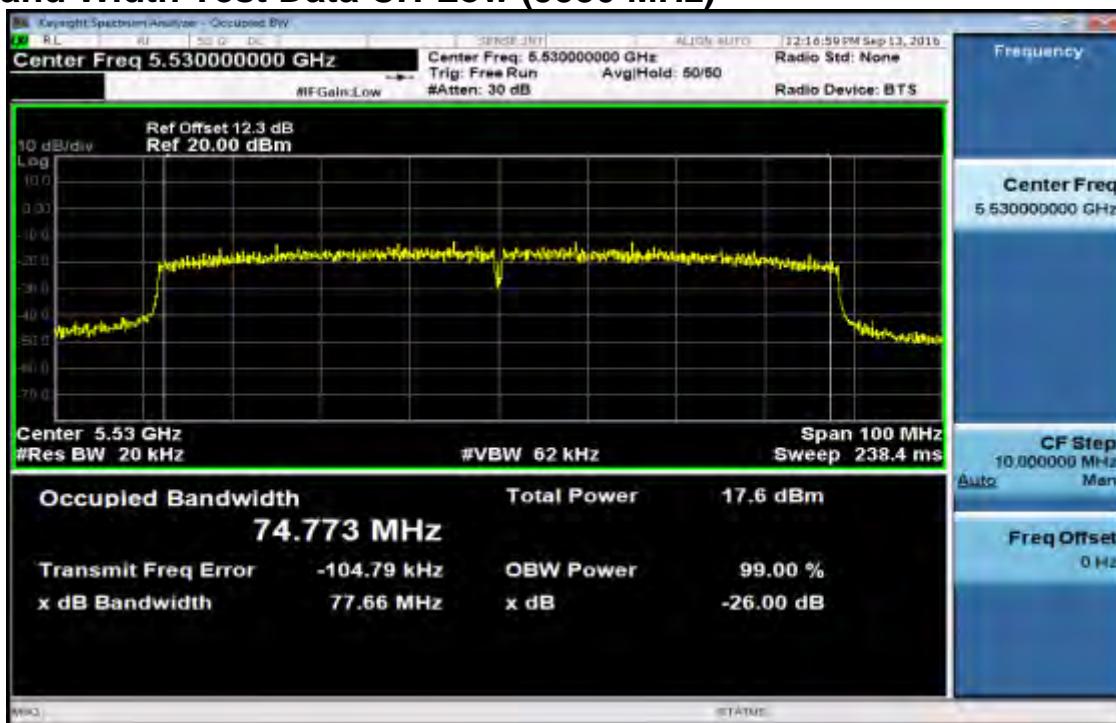


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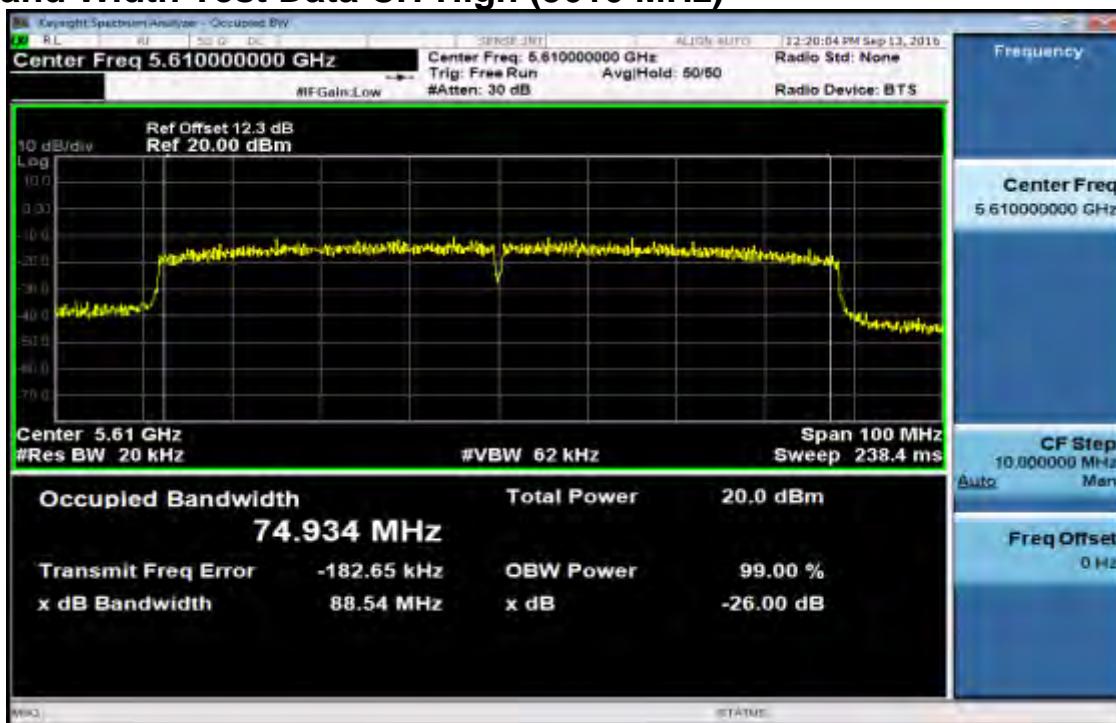
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802.11ac VHT80, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5530 MHz)



802.11ac VHT80, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-High (5610 MHz)

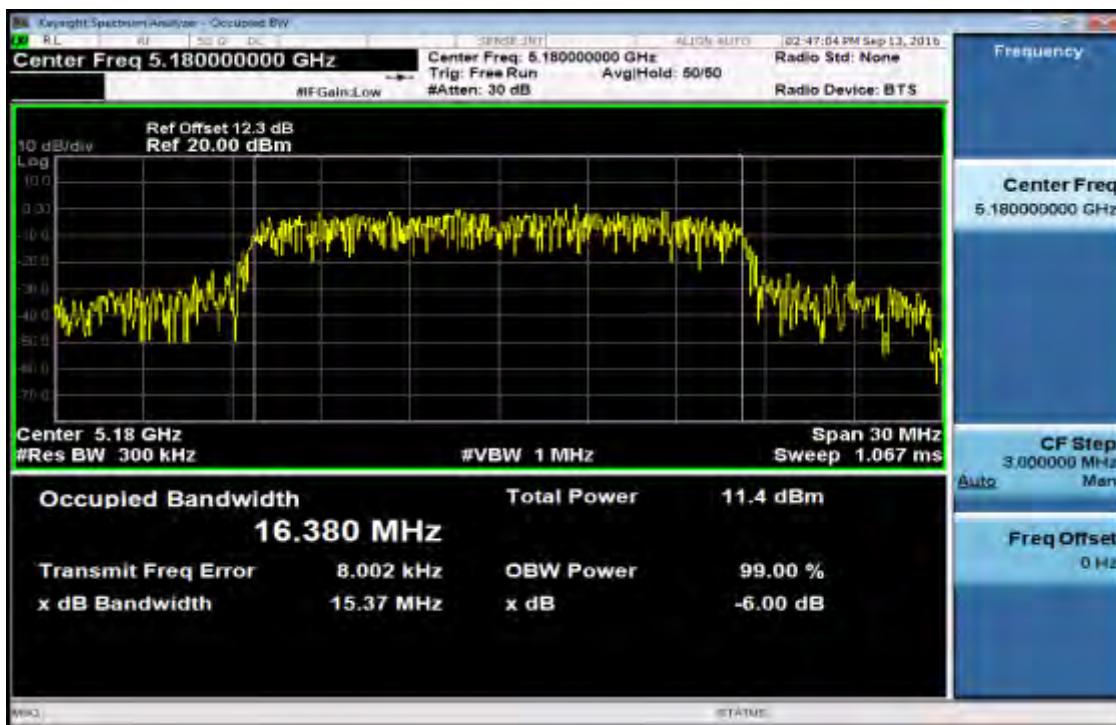


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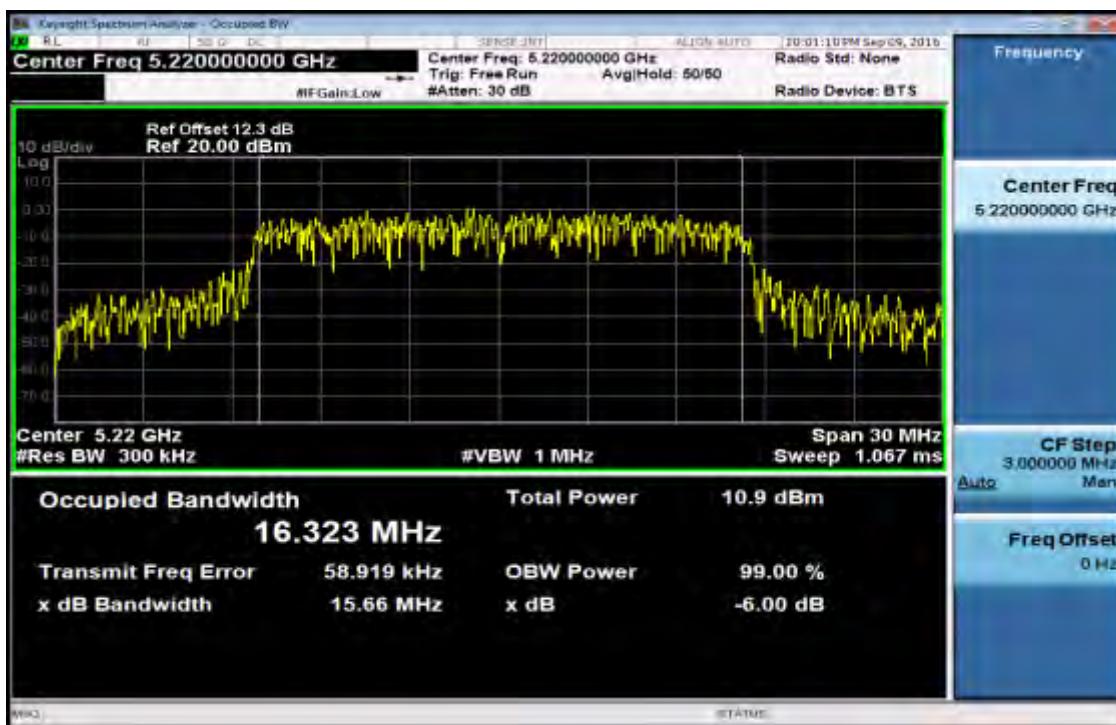
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802.11a, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180MHz)



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

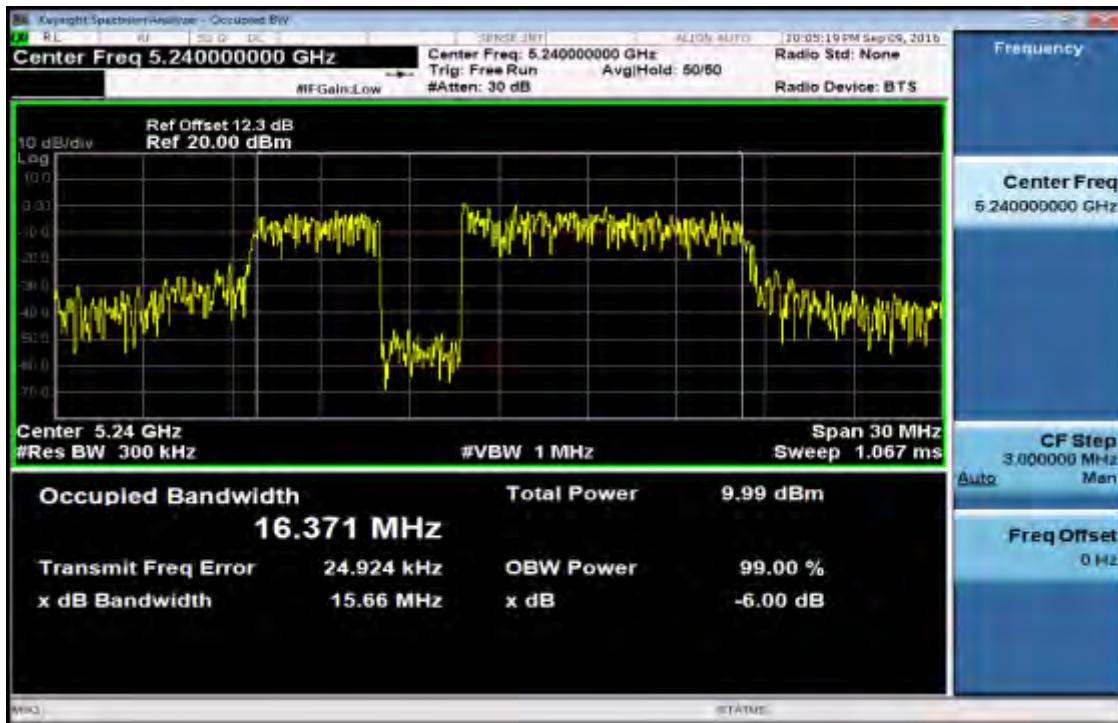


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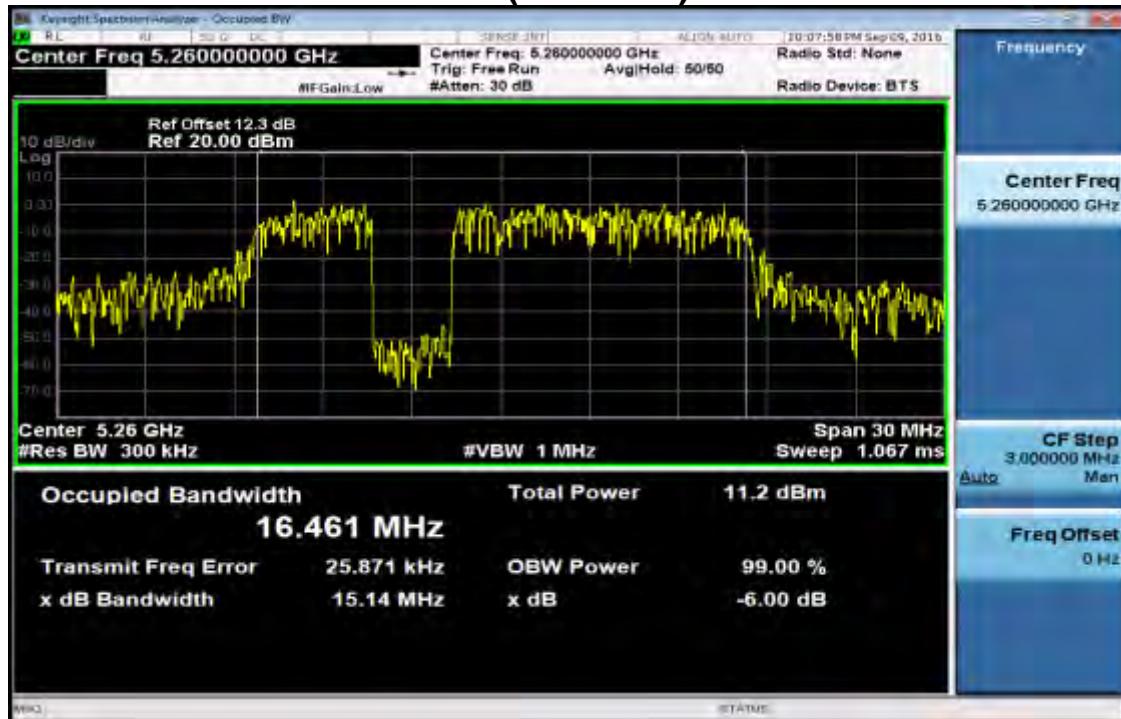
99% Band Width Test Data CH-High (5240MHz)

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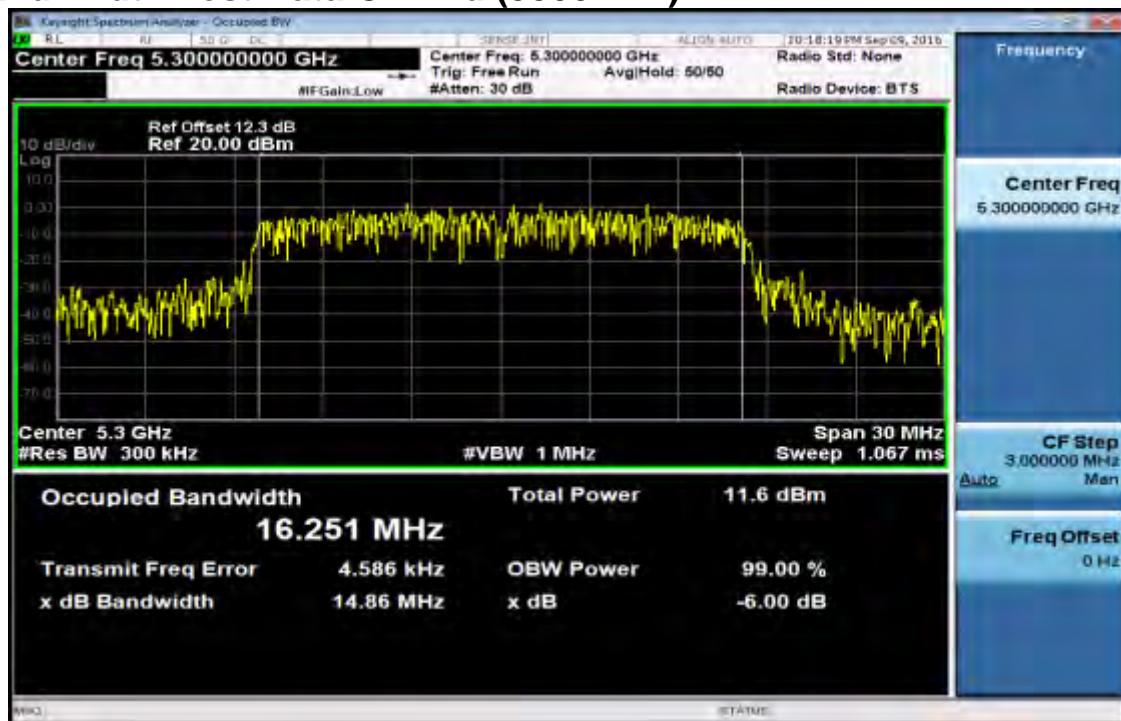
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802.11a, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260MHz)



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



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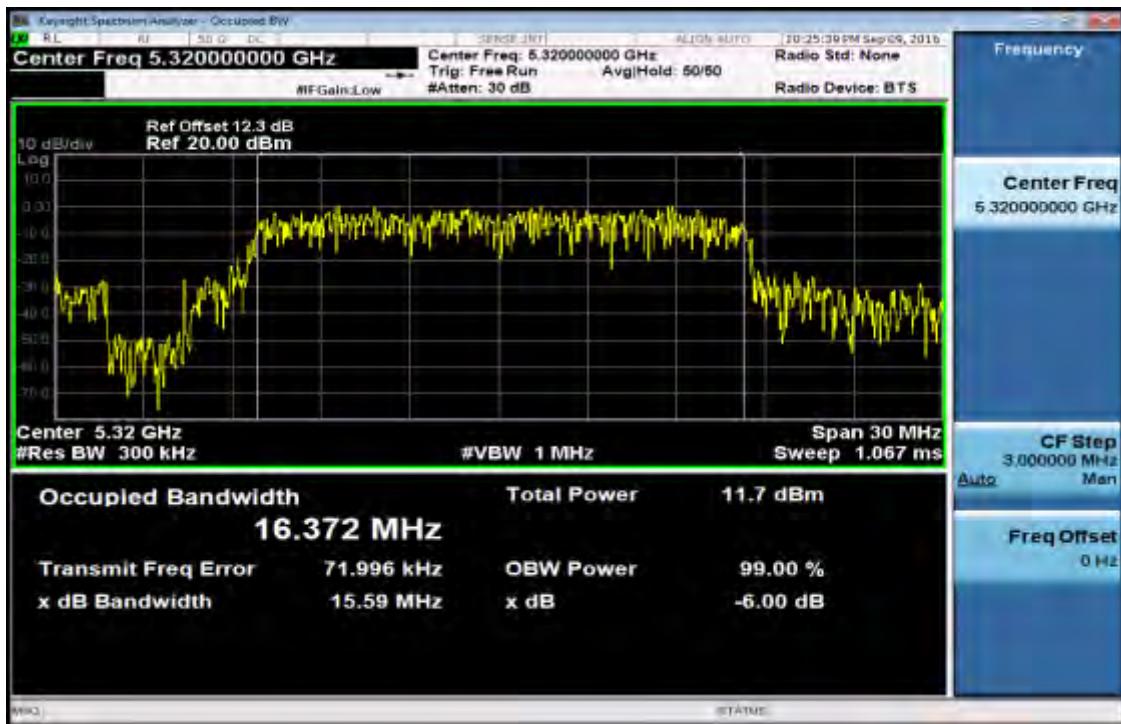
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99% Band Width Test Data CH-High (5320MHz)



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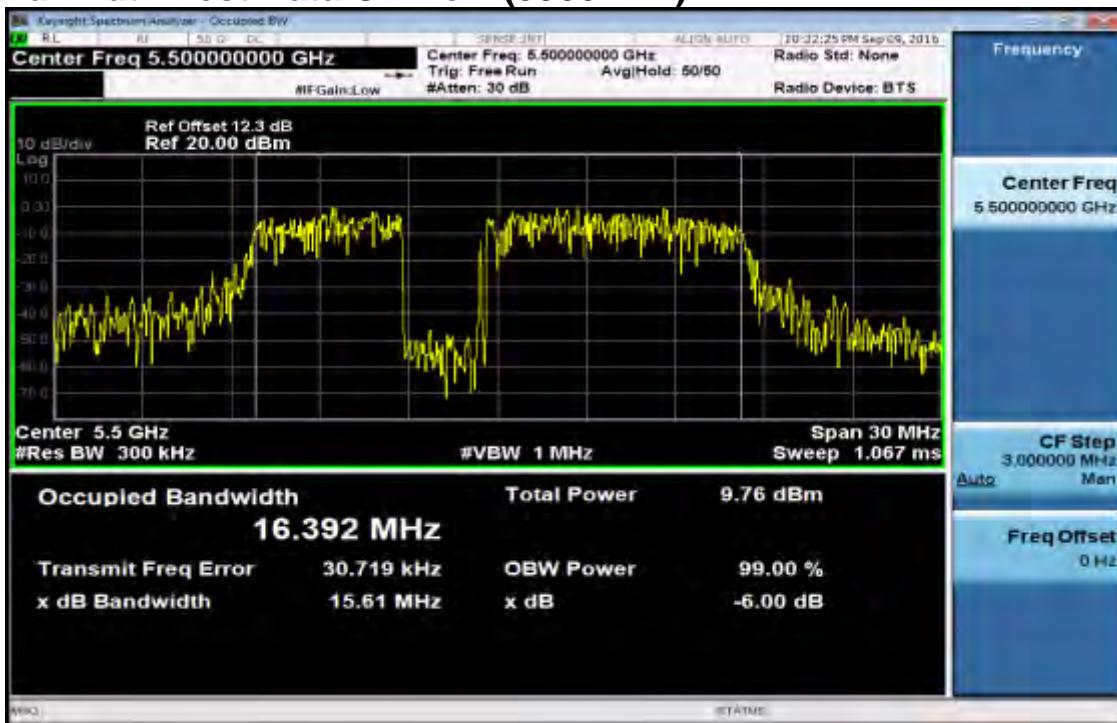
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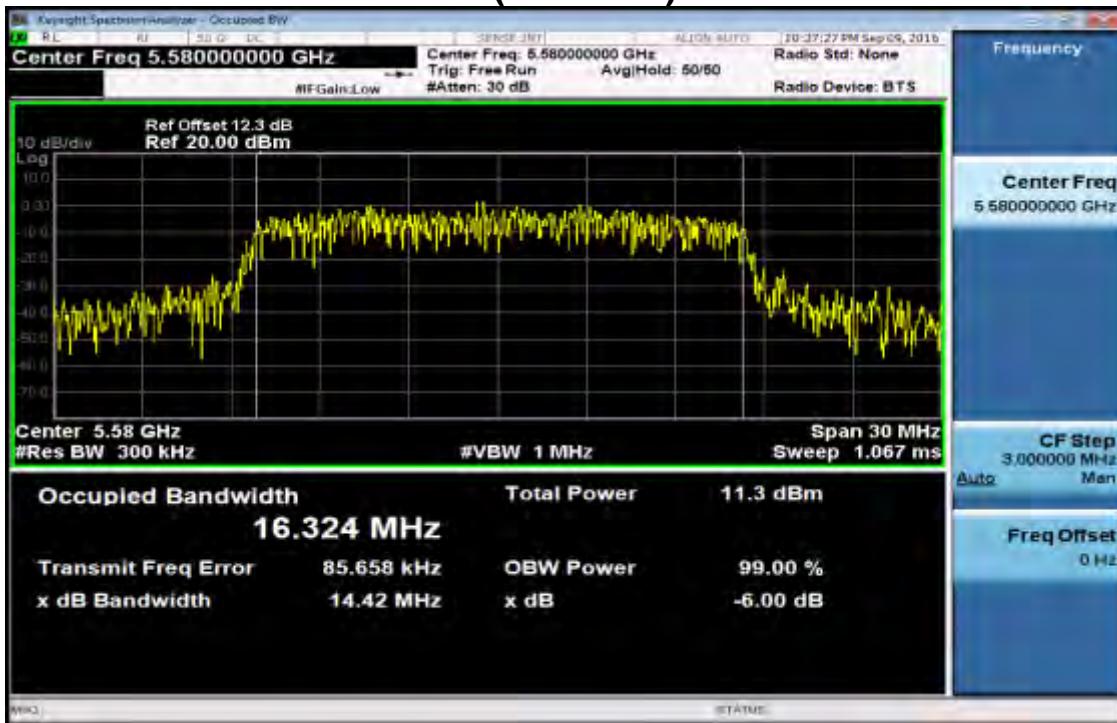
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802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



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

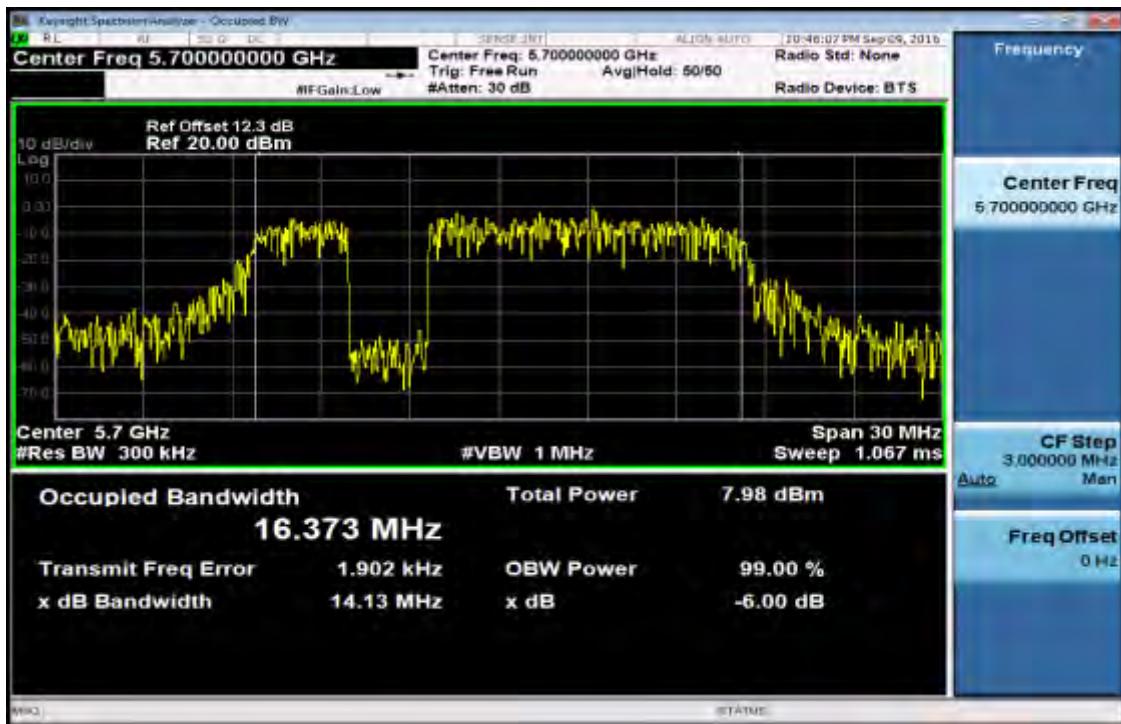


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99% Band Width Test Data CH-High (5700MHz)



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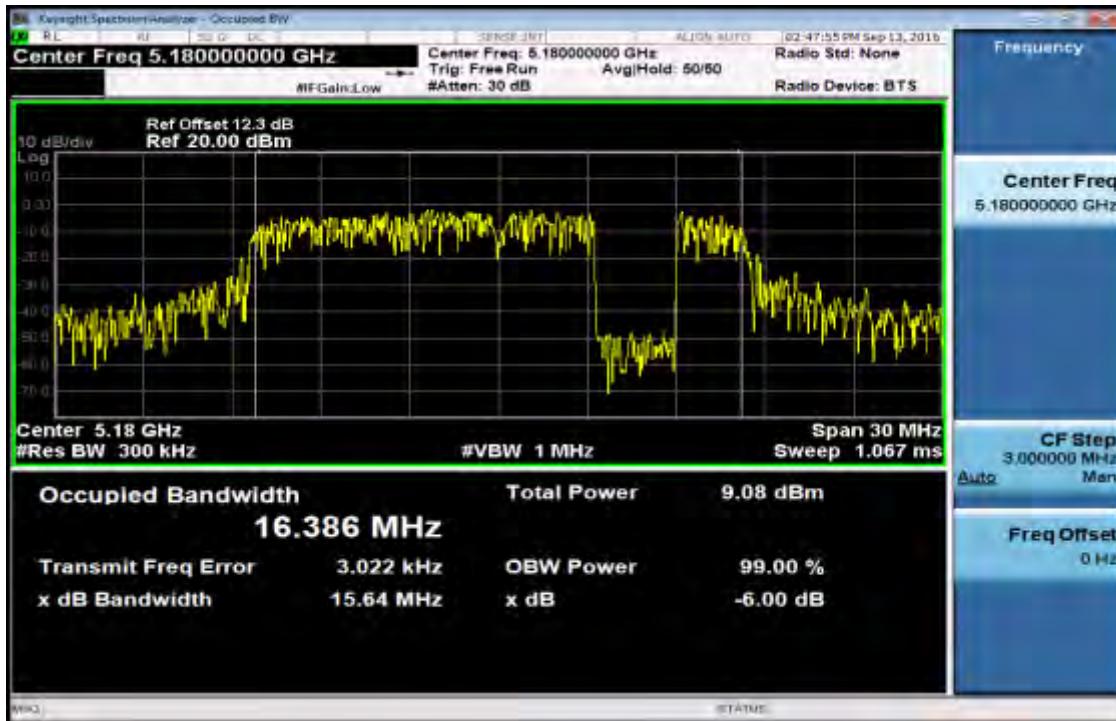
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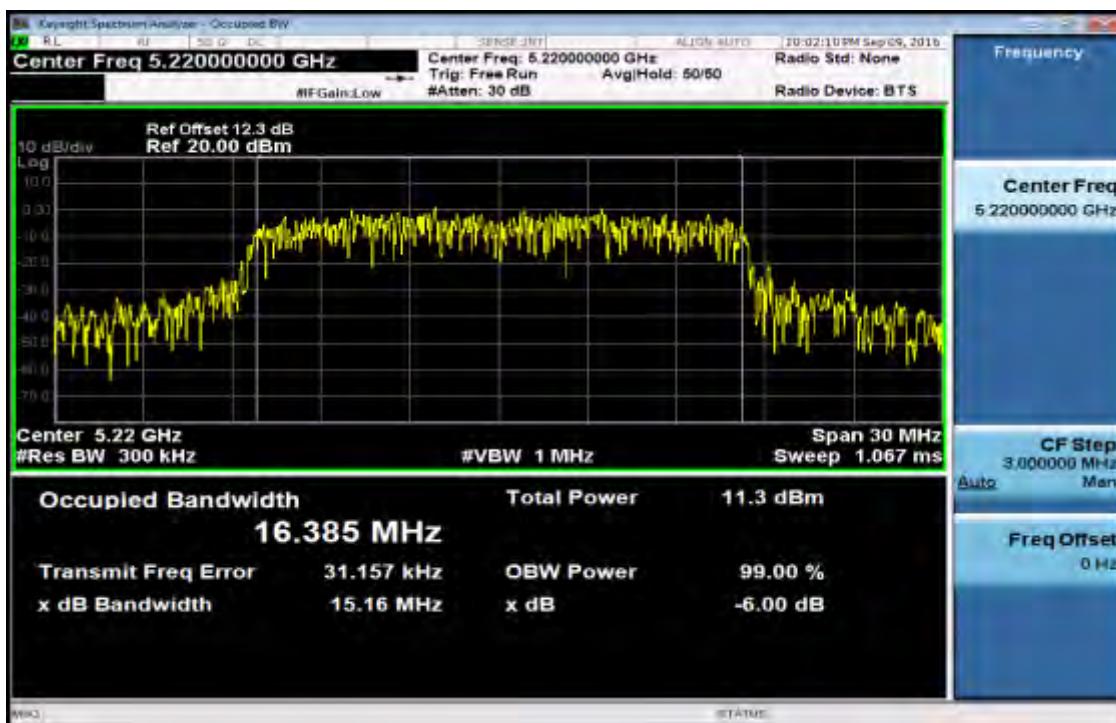
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802.11a, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Low (5180MHz)



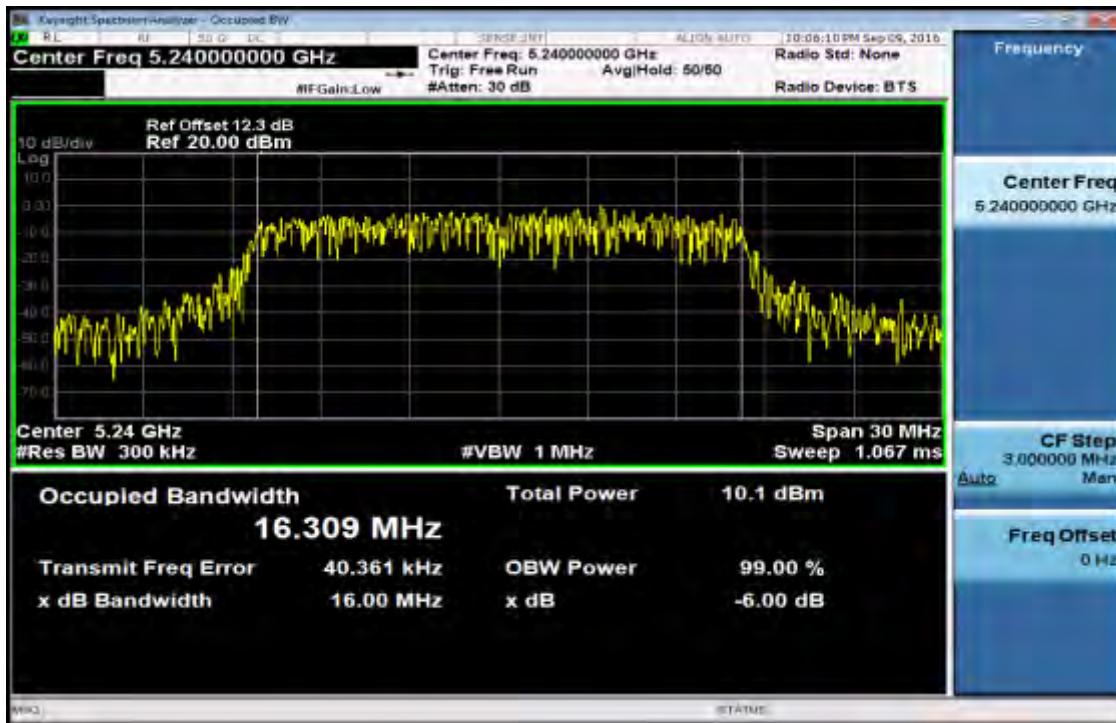
99% Band Width Test Data CH-Mid (5220MHz)



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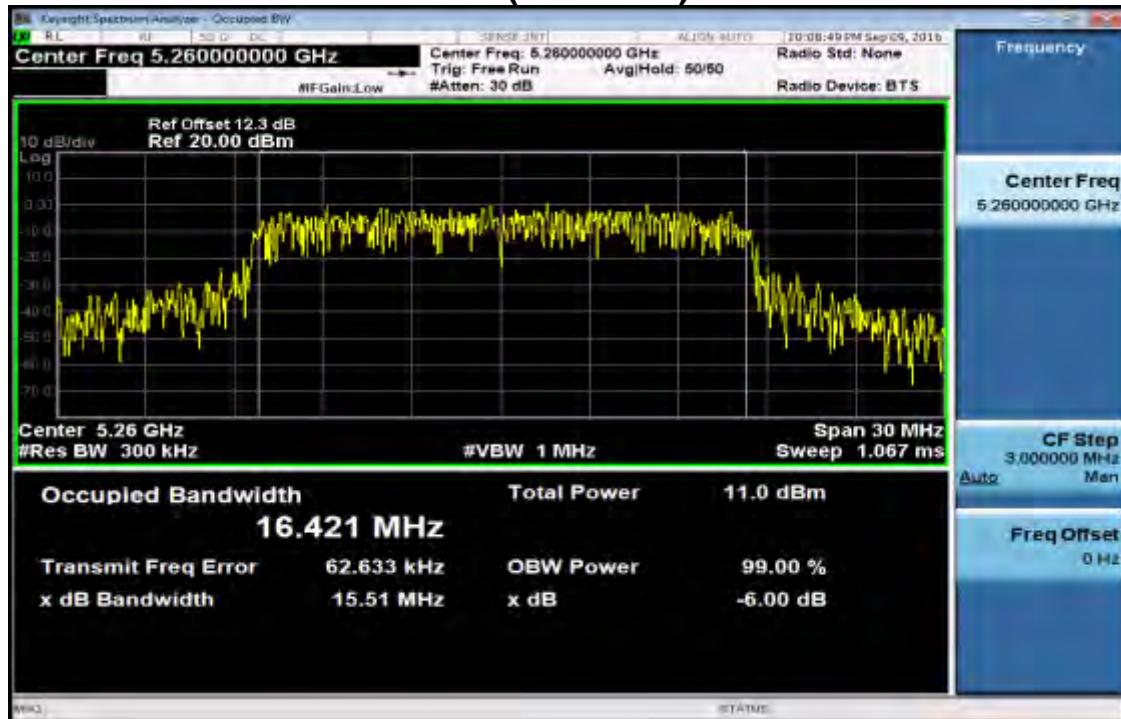
99% Band Width Test Data CH-High (5240MHz)

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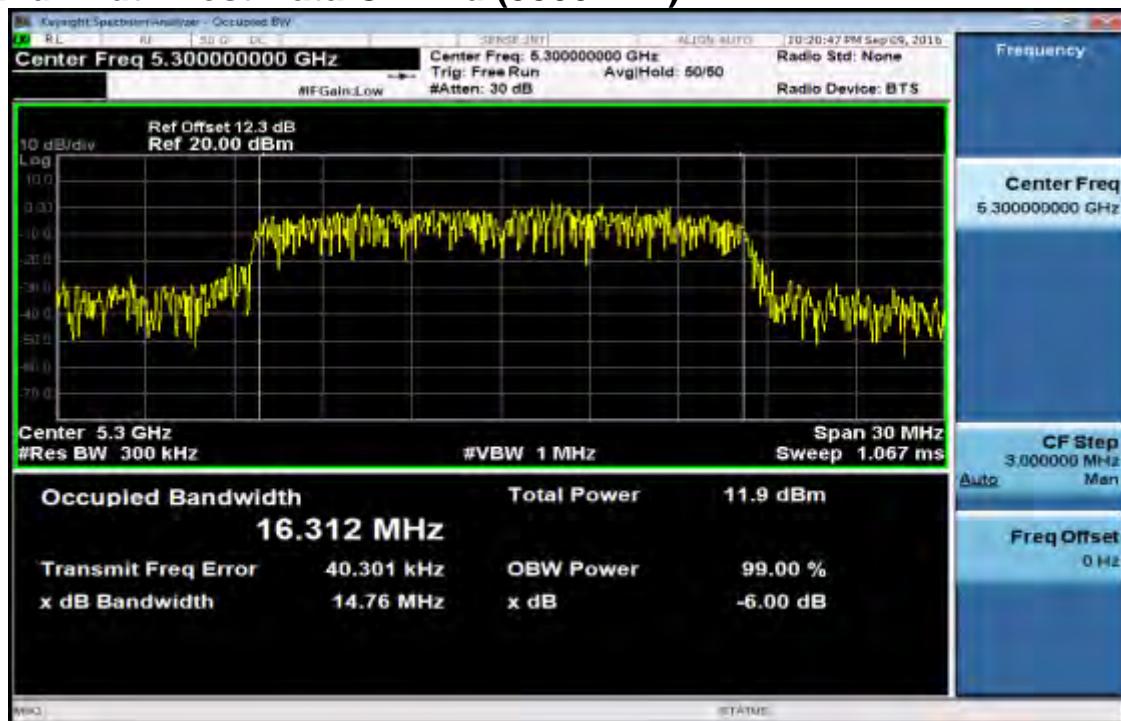
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802.11a, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5260MHz)



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

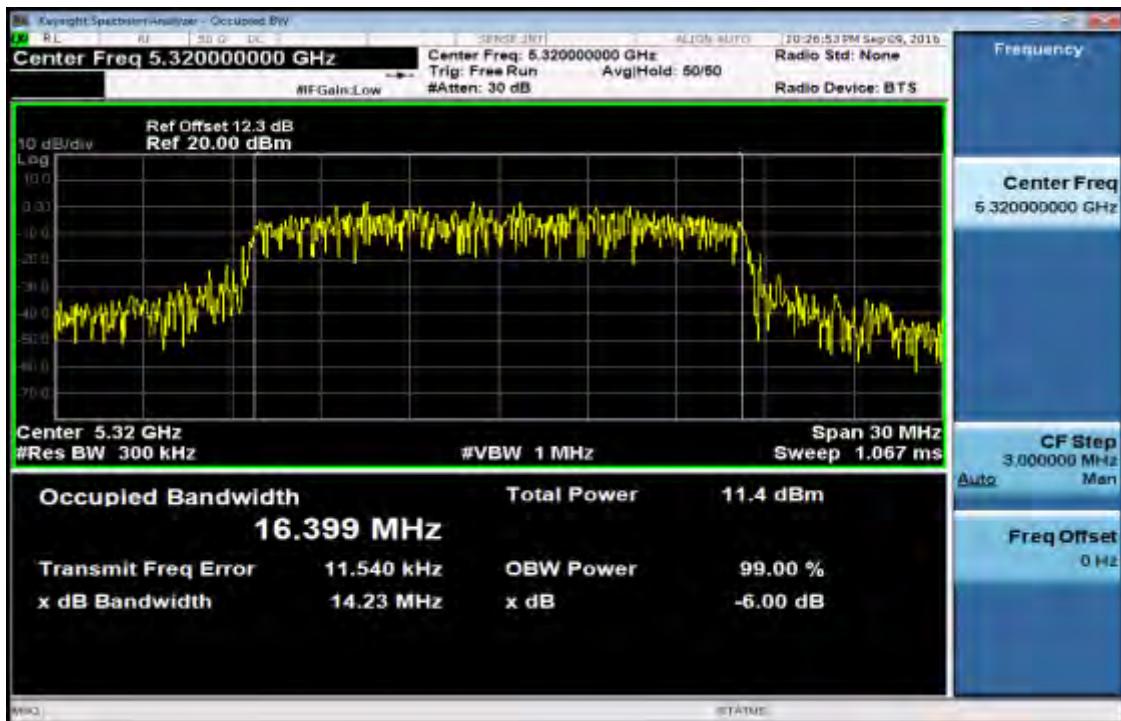


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99% Band Width Test Data CH-High (5320MHz)



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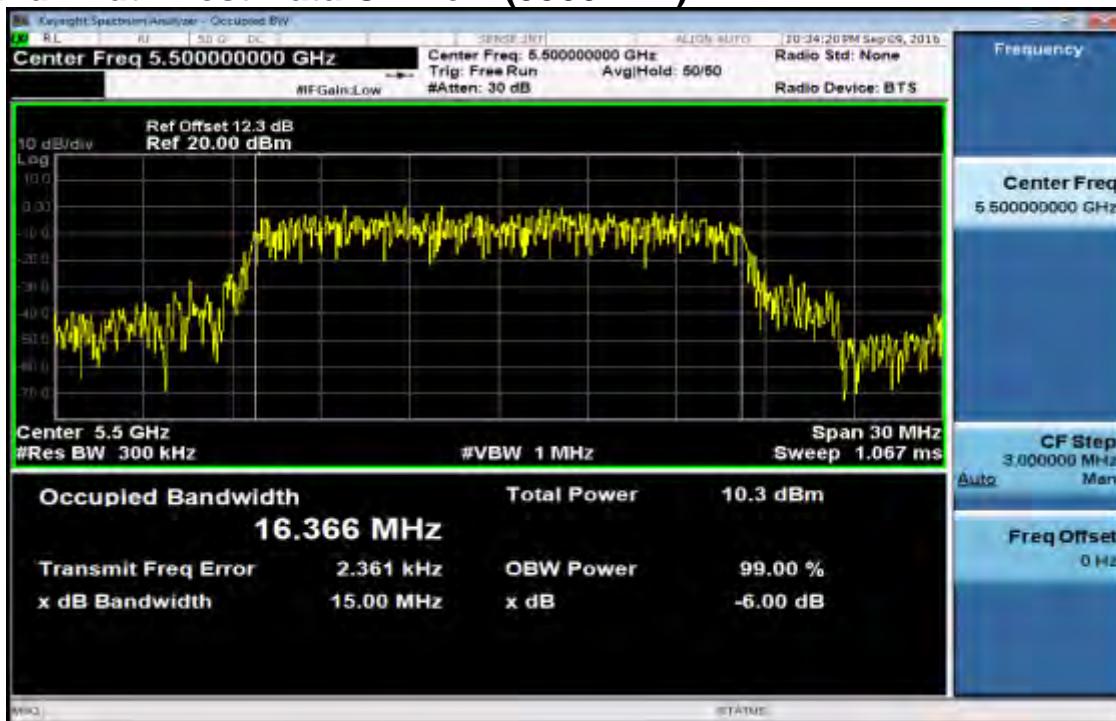
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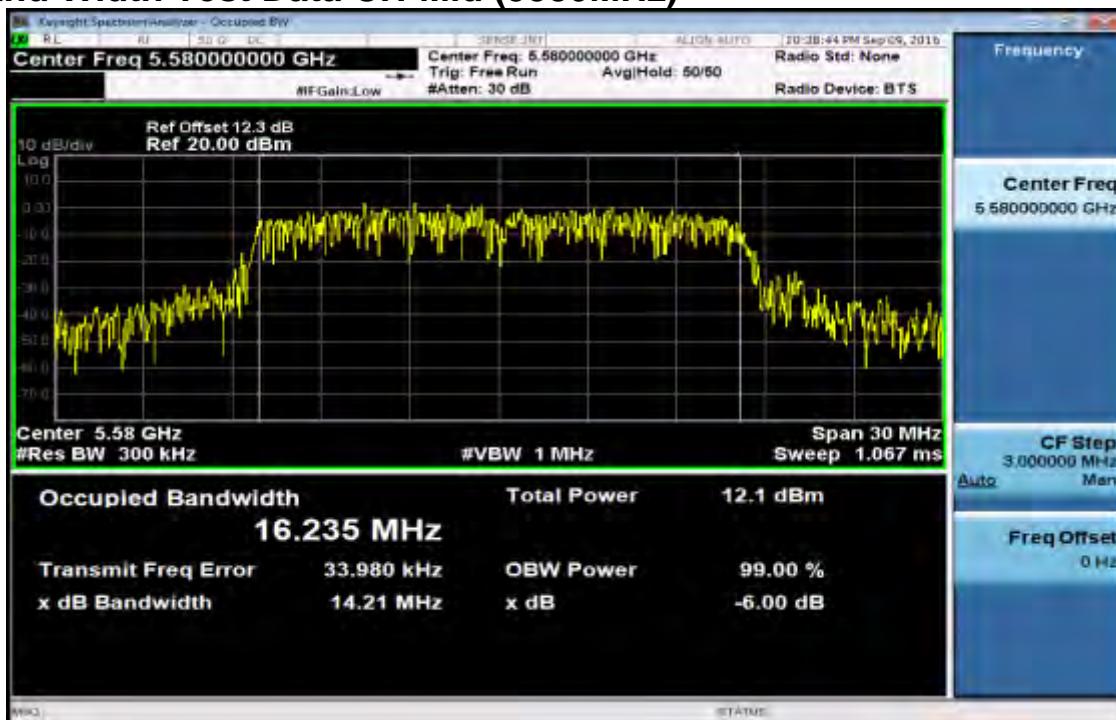
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802.11a, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5500MHz)



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

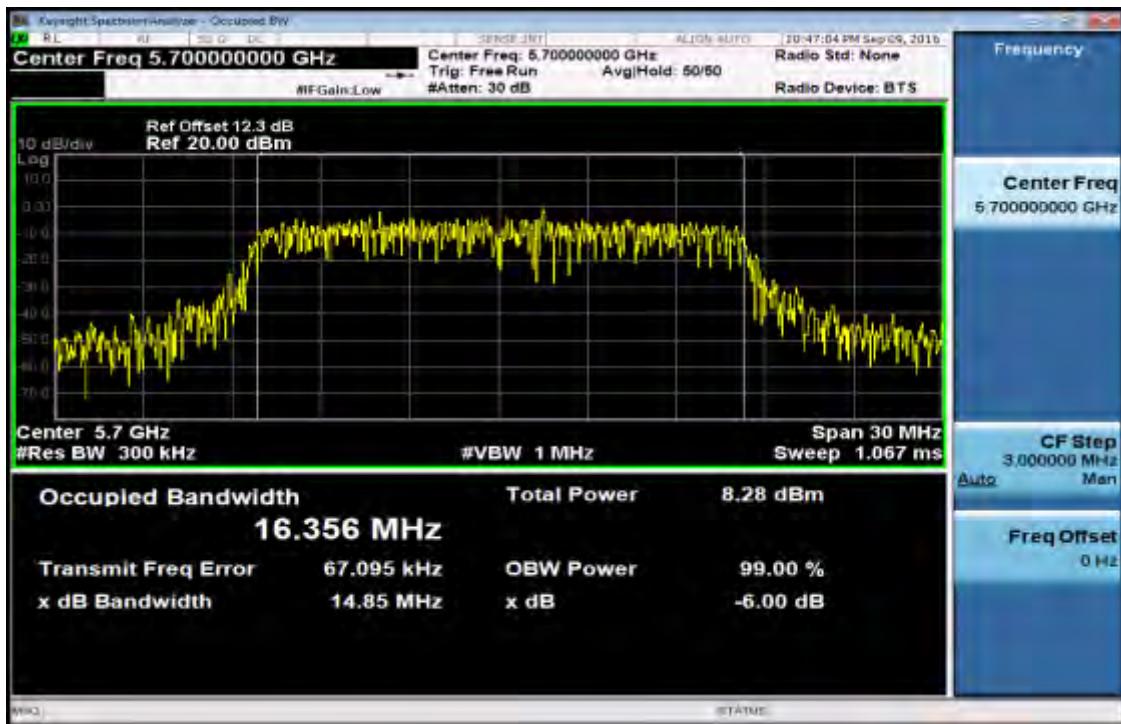


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99% Band Width Test Data CH-High (5700MHz)

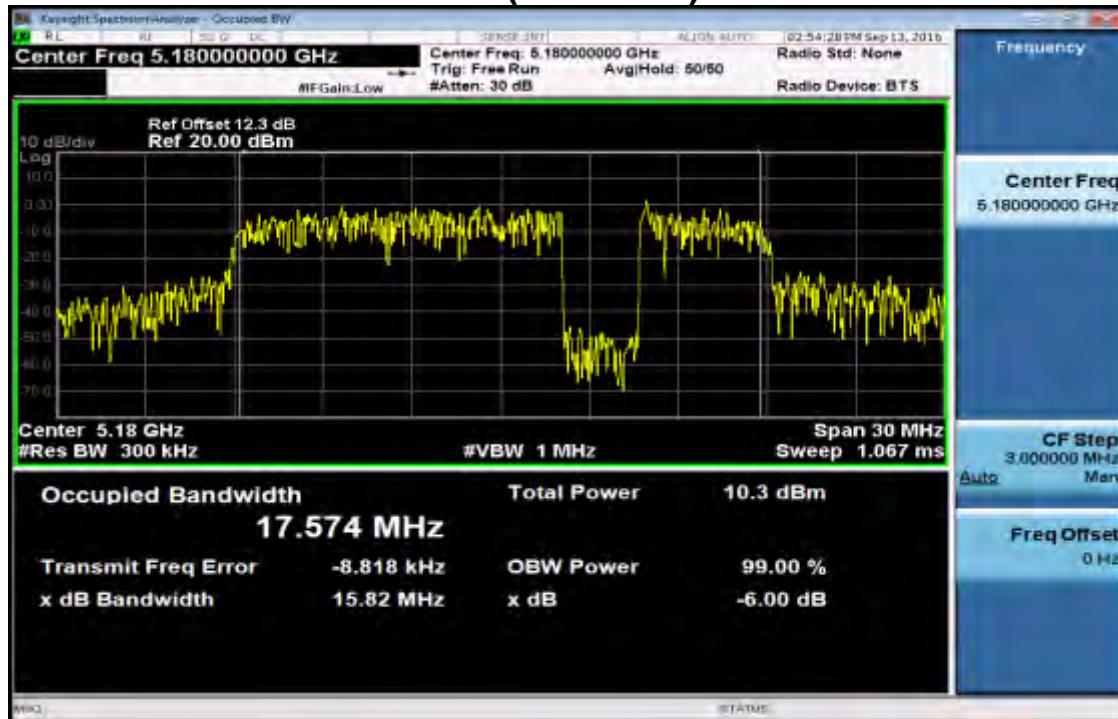


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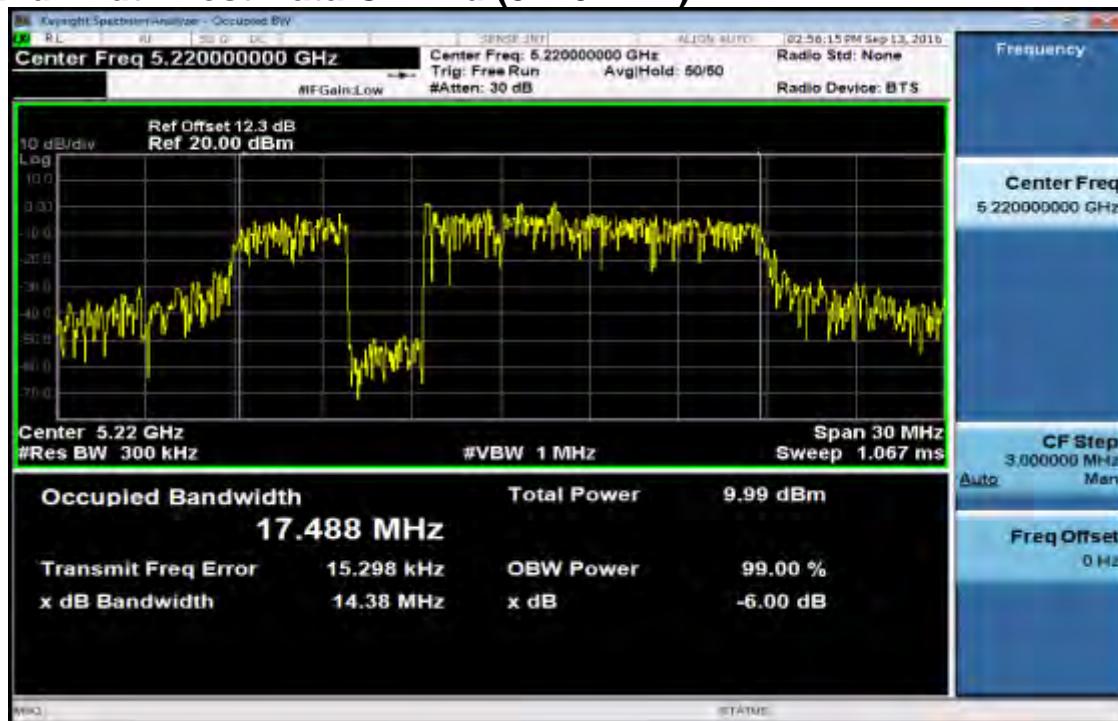
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



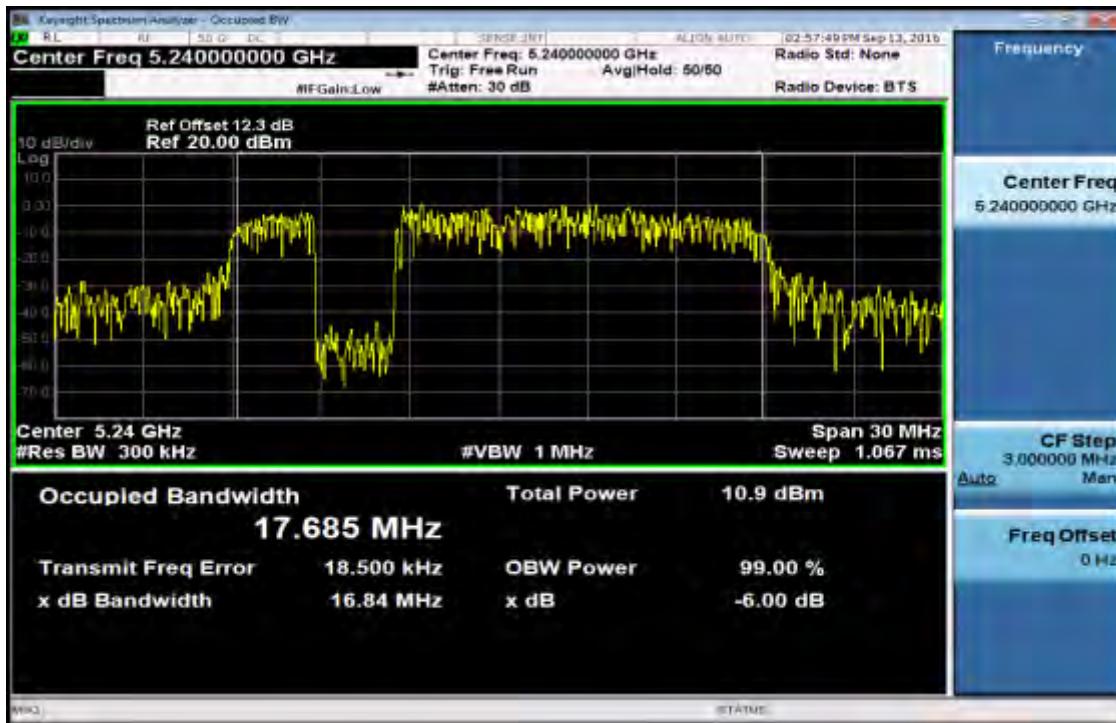
99% Band Width Test Data CH-Mid (5220 MHz)



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

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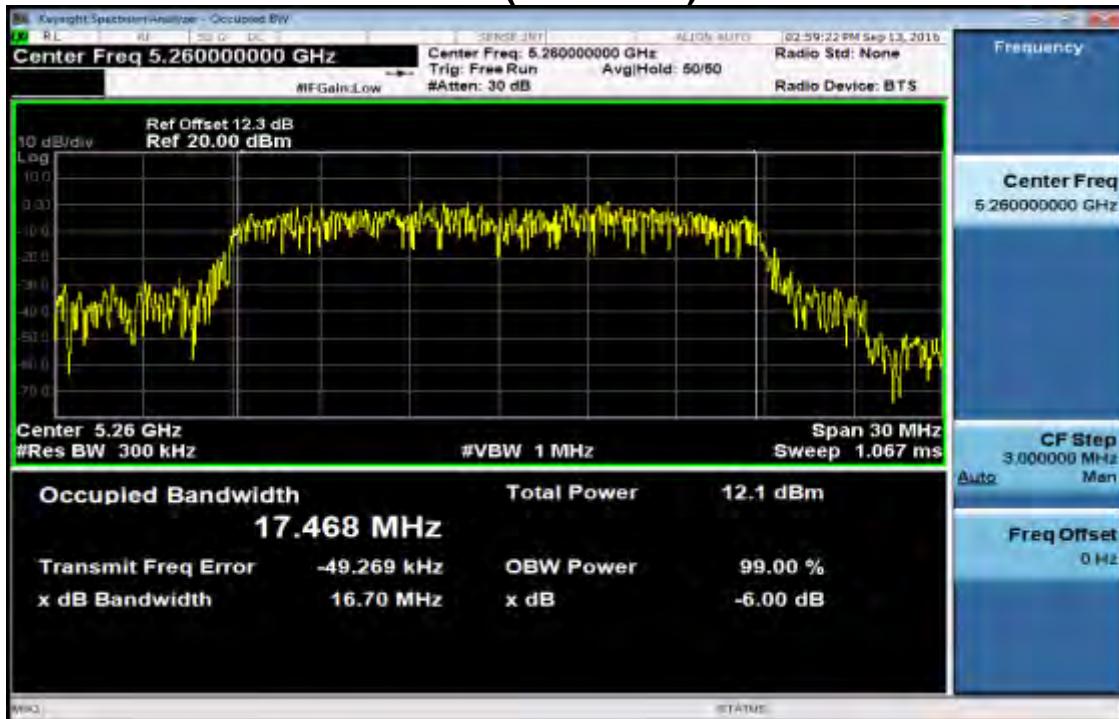
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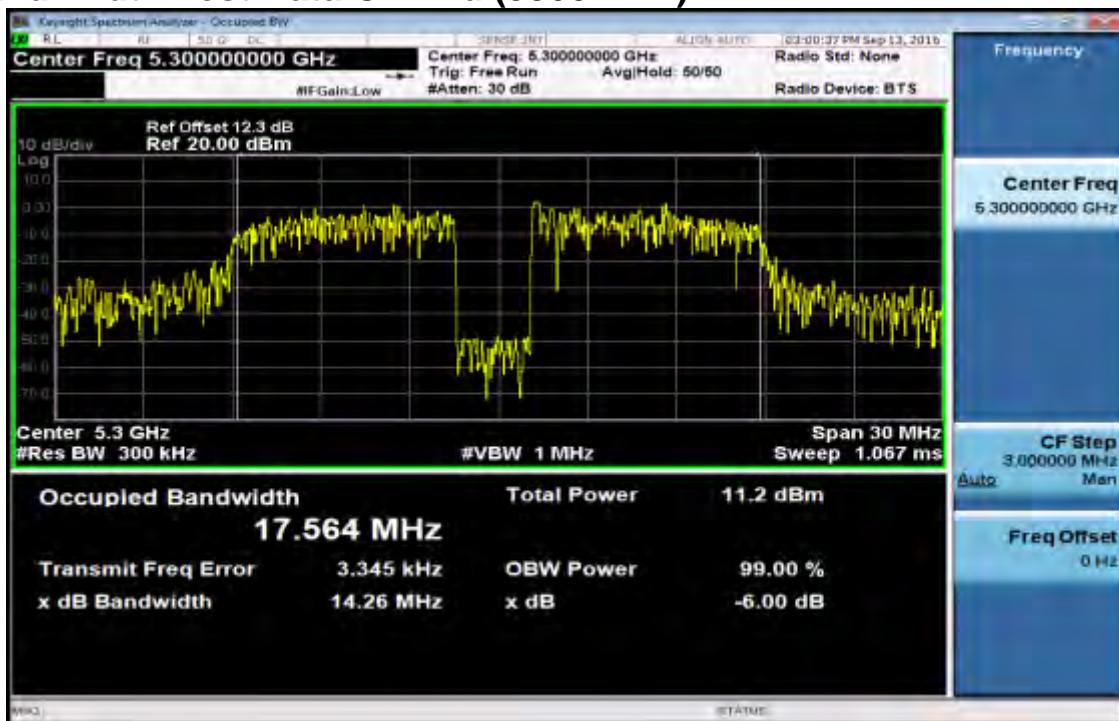
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802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



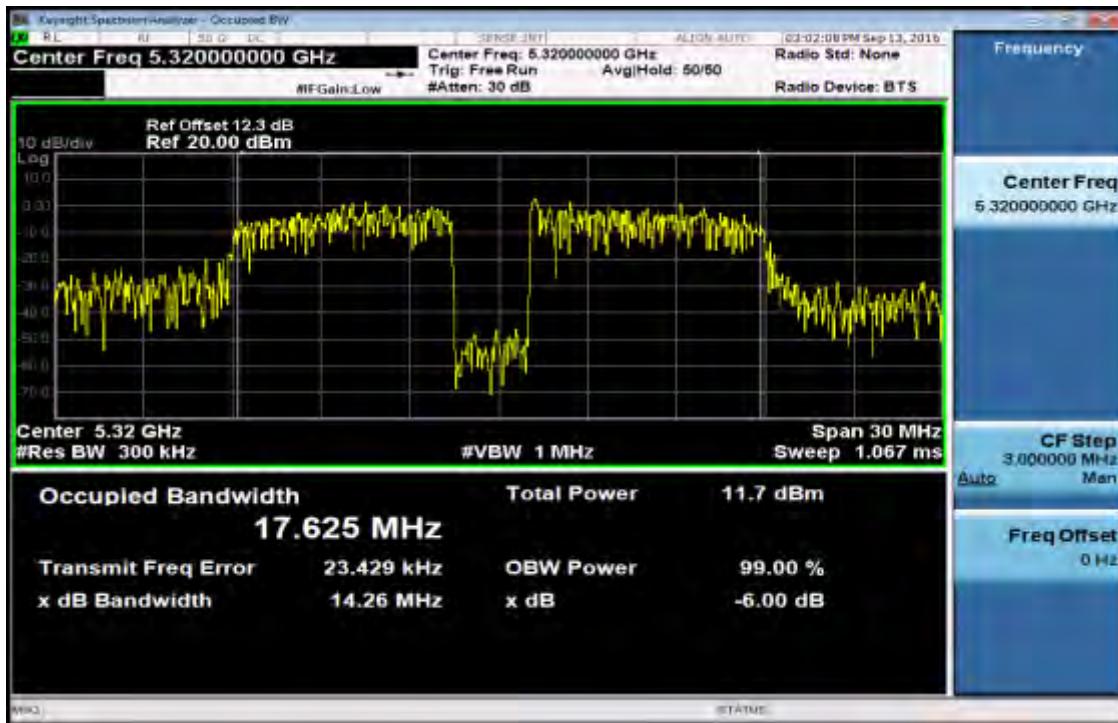
99% Band Width Test Data CH-Mid (5300 MHz)



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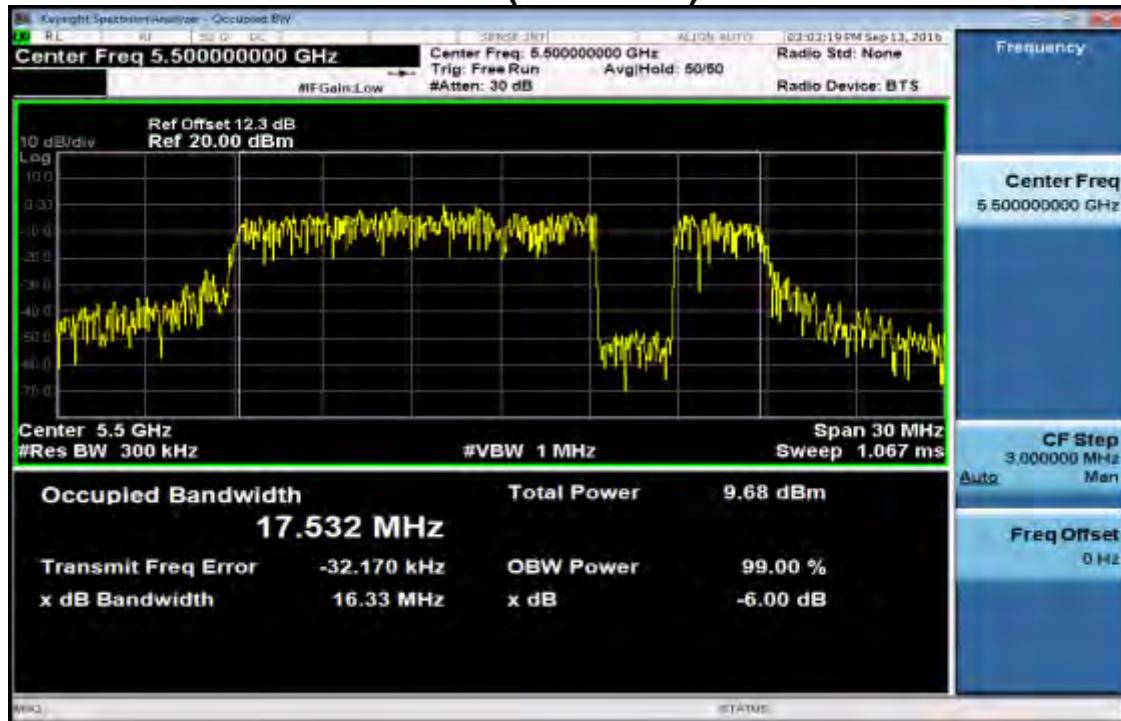
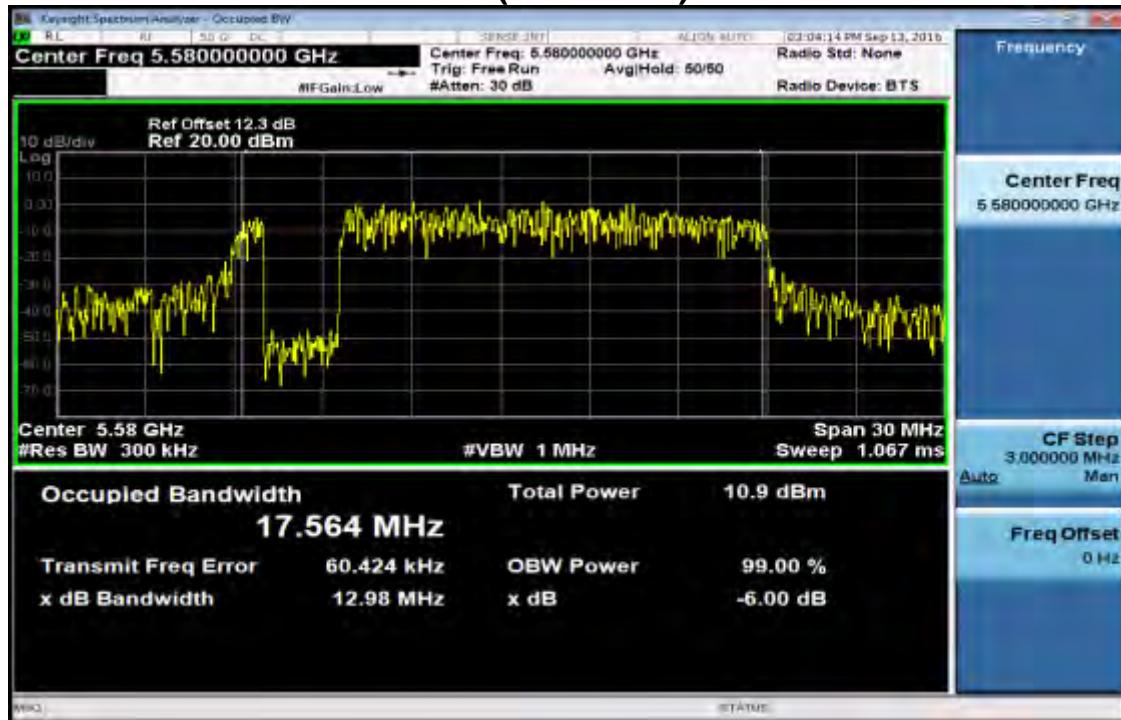
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99% Band Width Test Data CH-High (5320 MHz)

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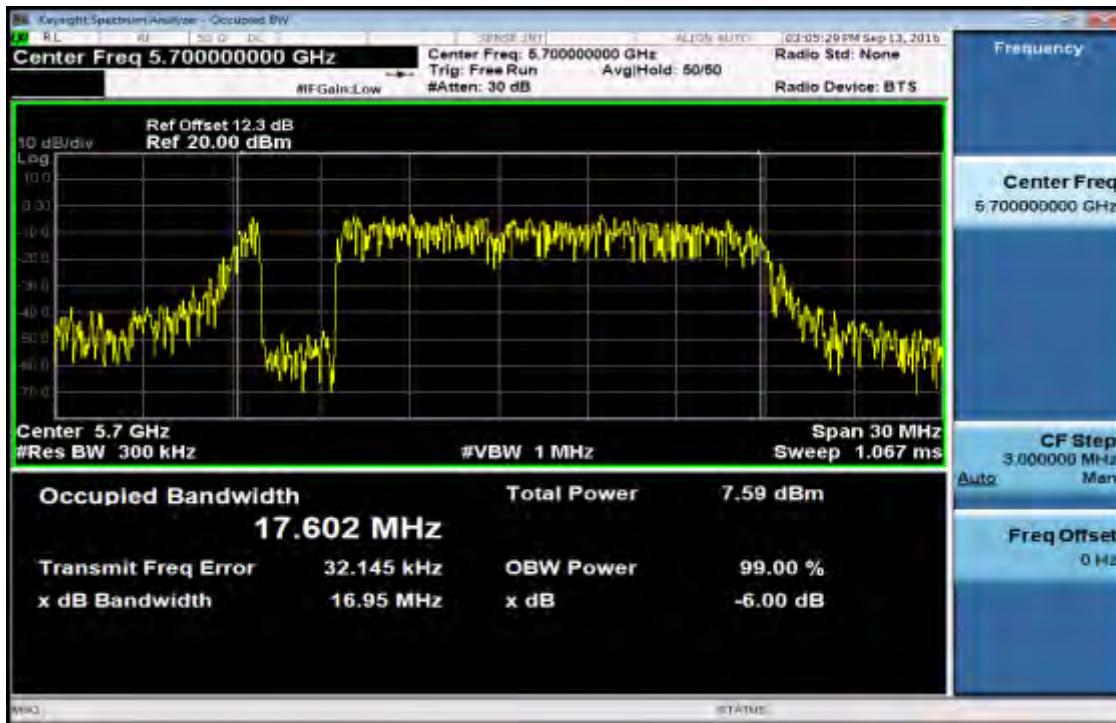
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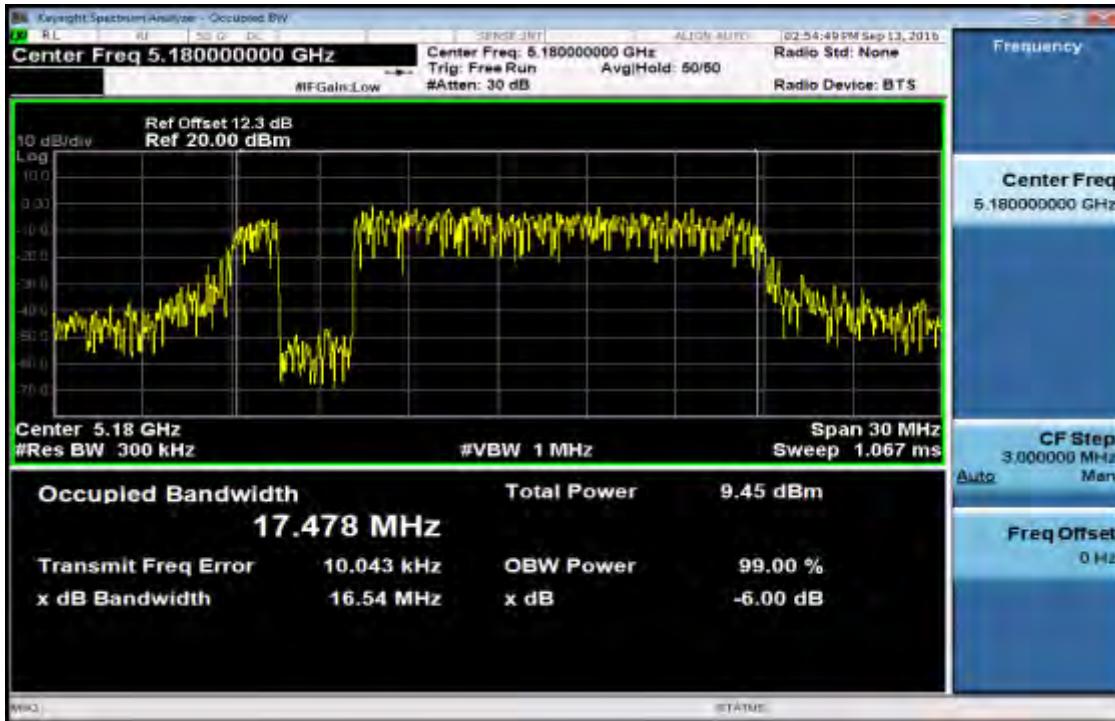
99% Band Width Test Data CH-High (5700 MHz)

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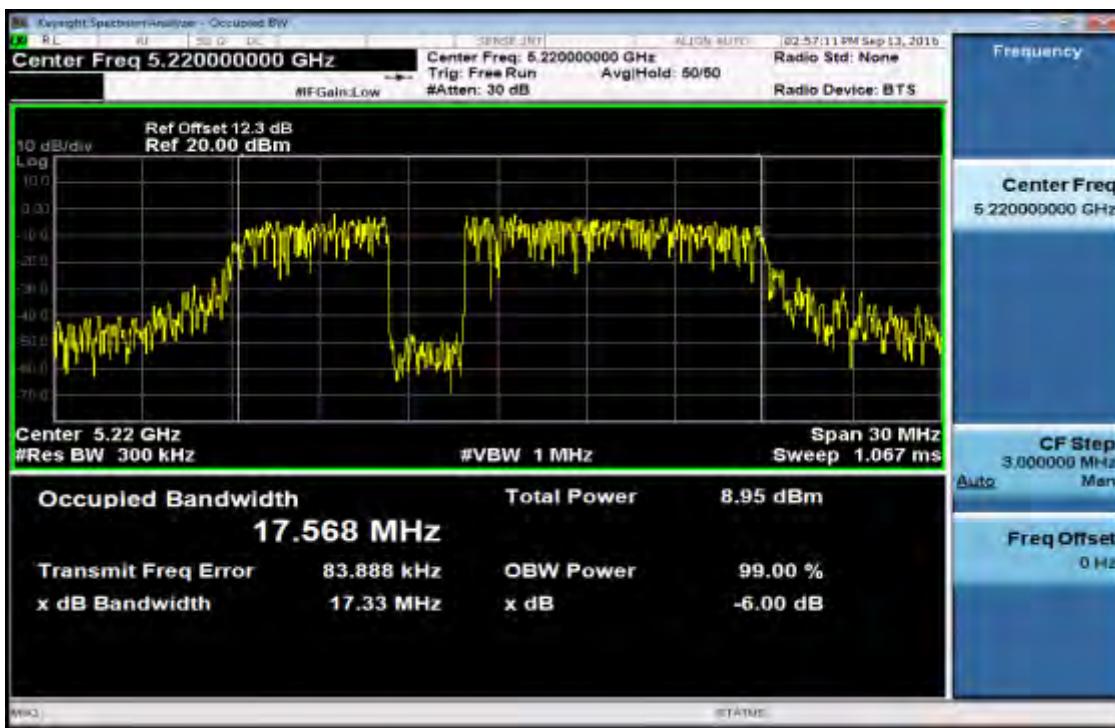
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802.11n HT20, 5150~5250 MHz (Aux1) 99% Band Width Test Data CH-Low (5180 MHz)



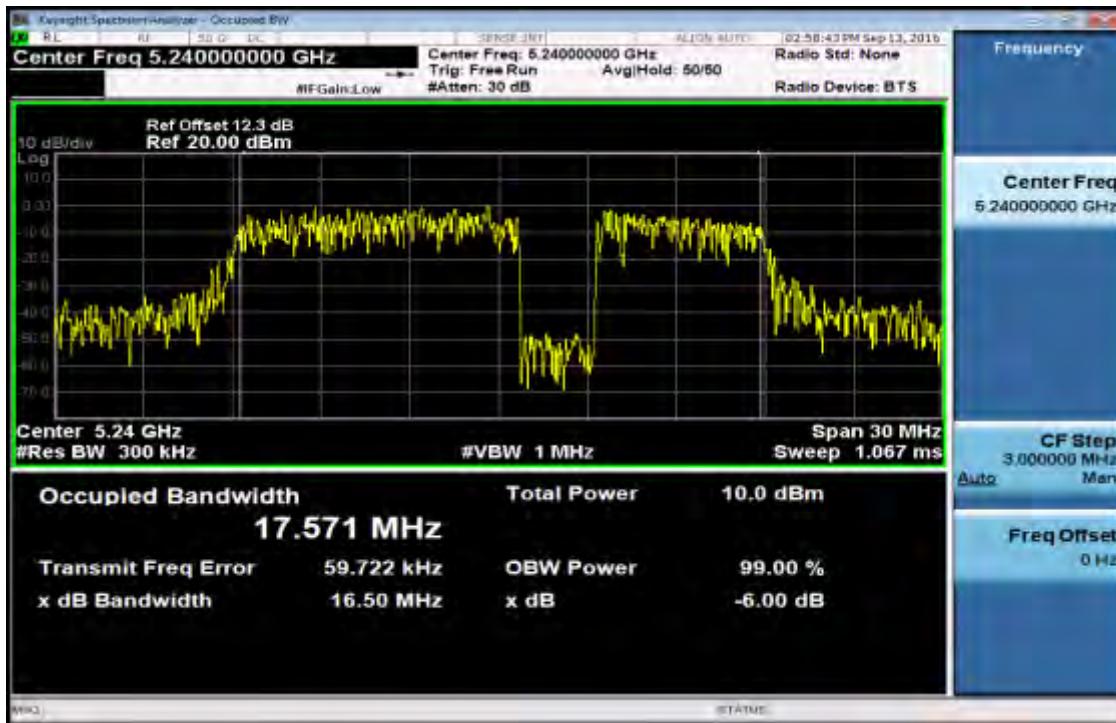
99% Band Width Test Data CH-Mid (5220 MHz)



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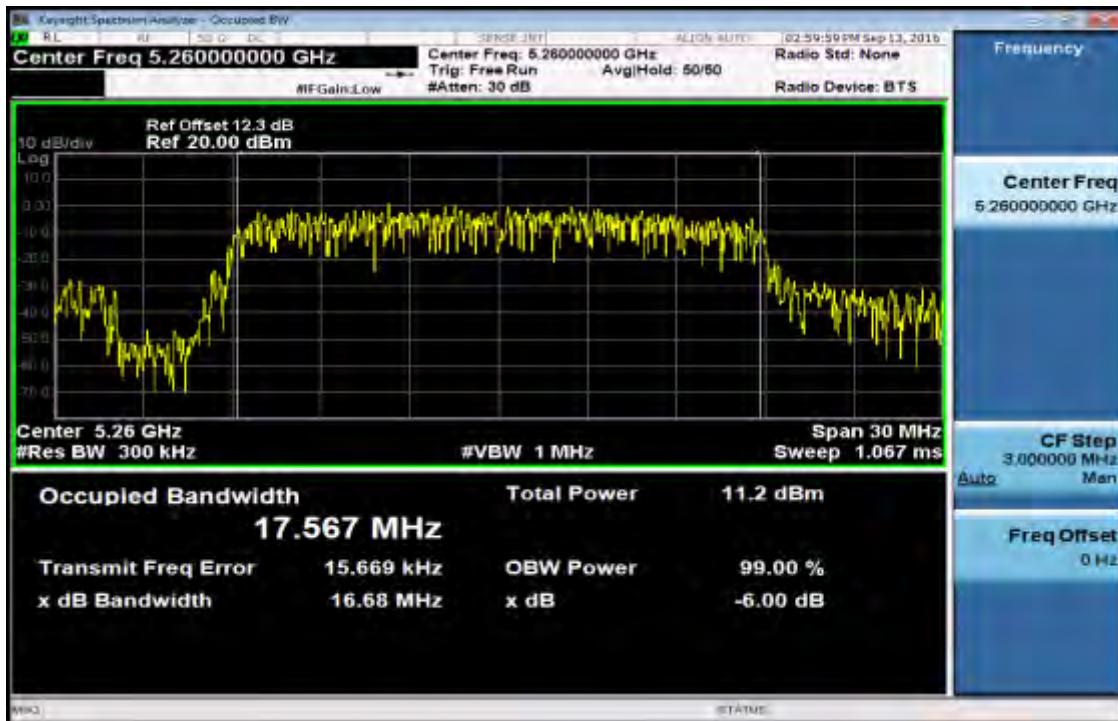
99% Band Width Test Data CH-High (5240 MHz)

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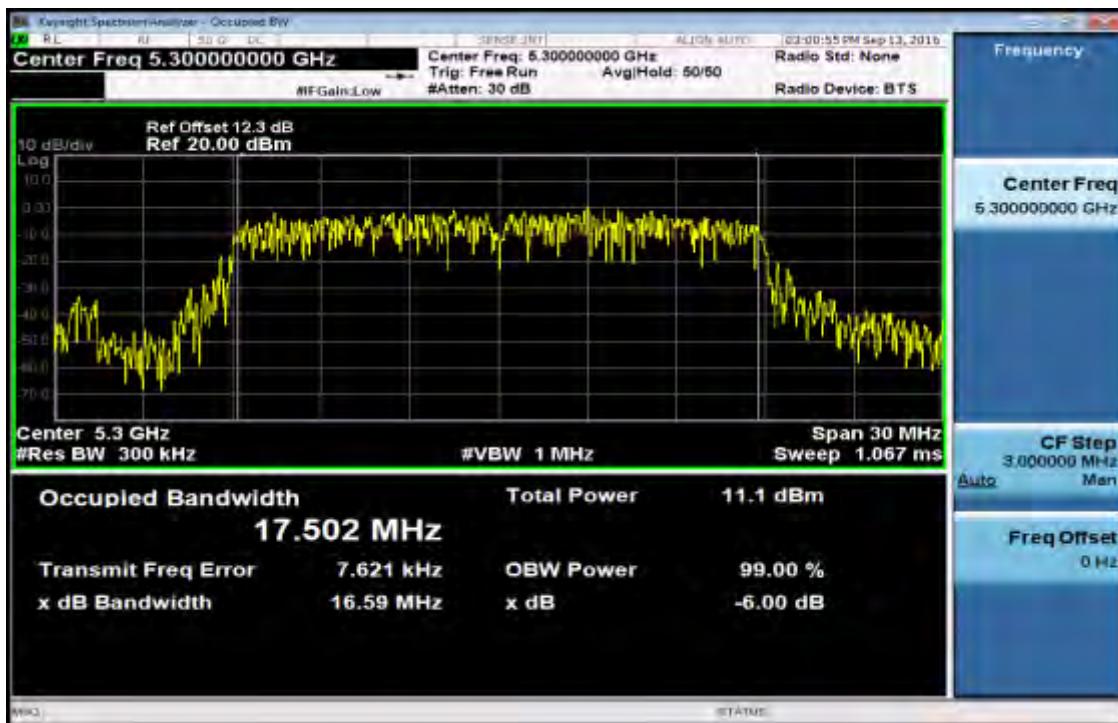
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802.11n HT20, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Low (5260 MHz)



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



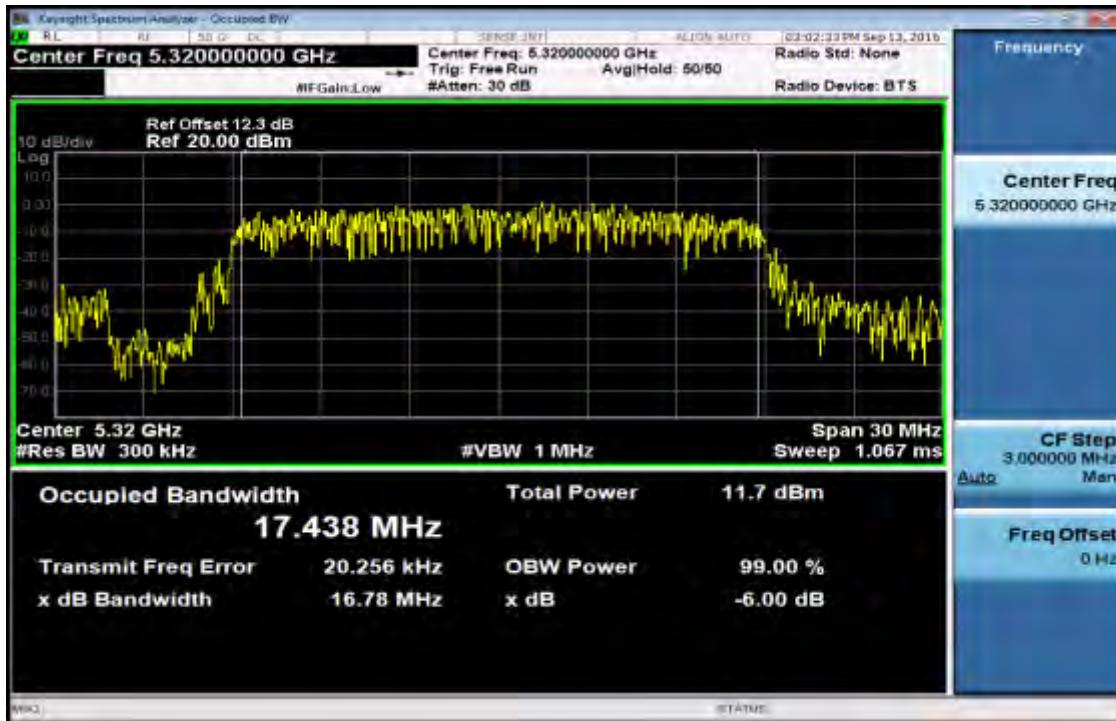
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99% Band Width Test Data CH-High (5320 MHz)



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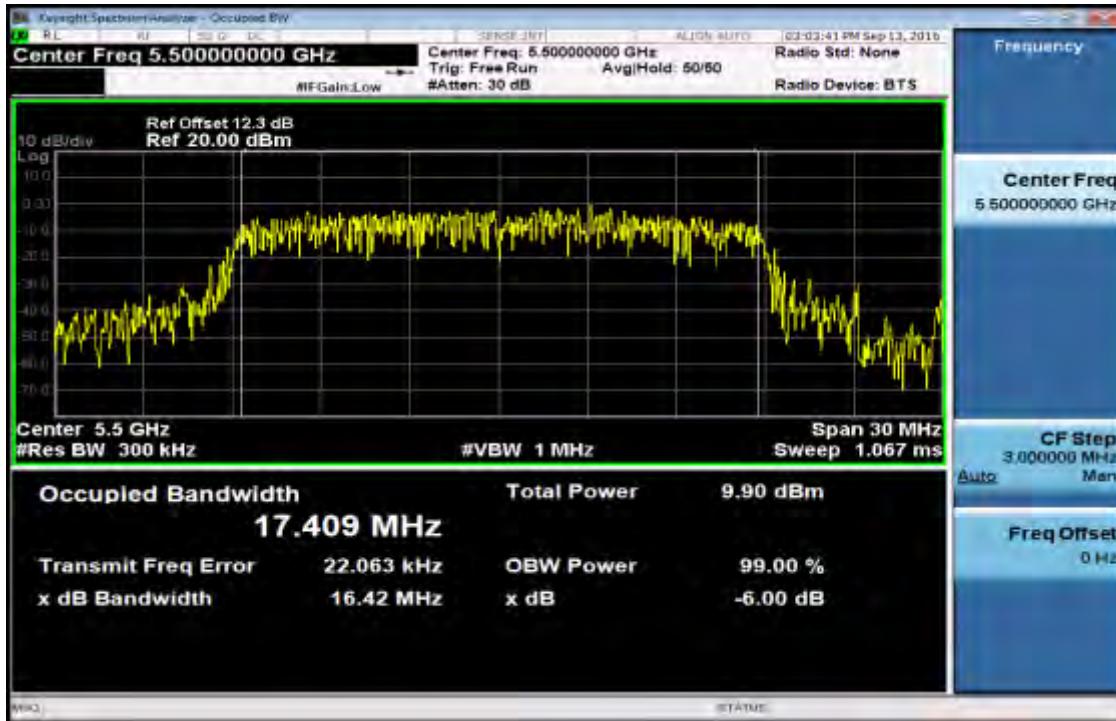
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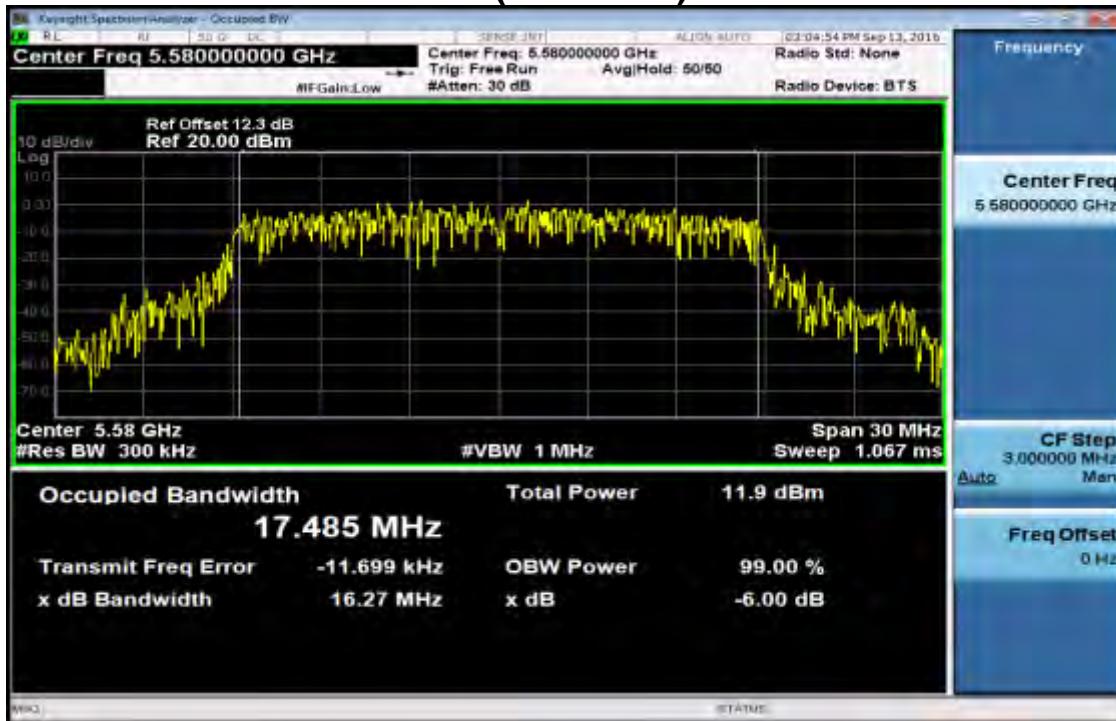
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802.11n HT20, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-Low (5500 MHz)



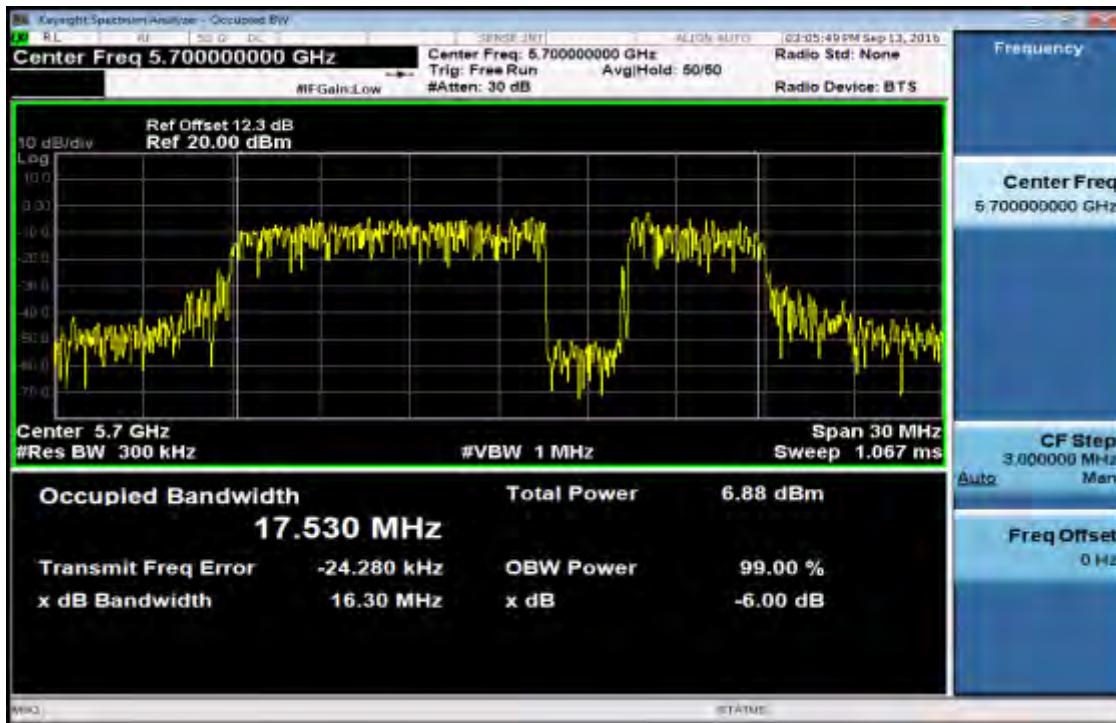
99% Band Width Test Data CH-Mid (5580 MHz)



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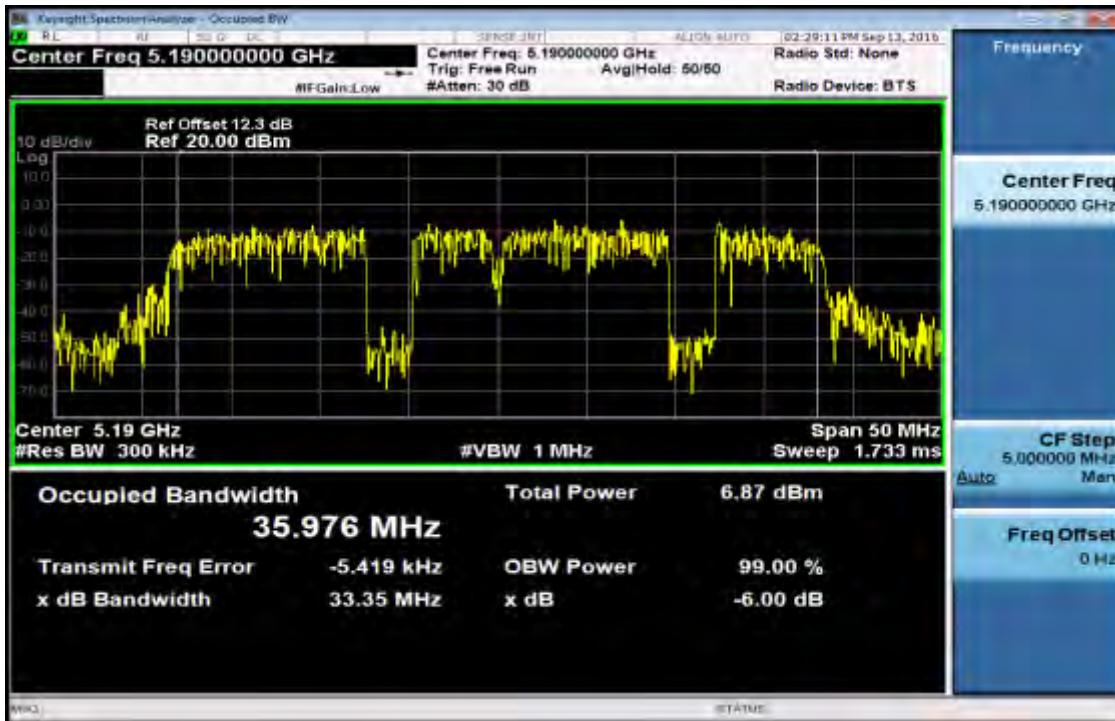
99% Band Width Test Data CH-High (5700 MHz)

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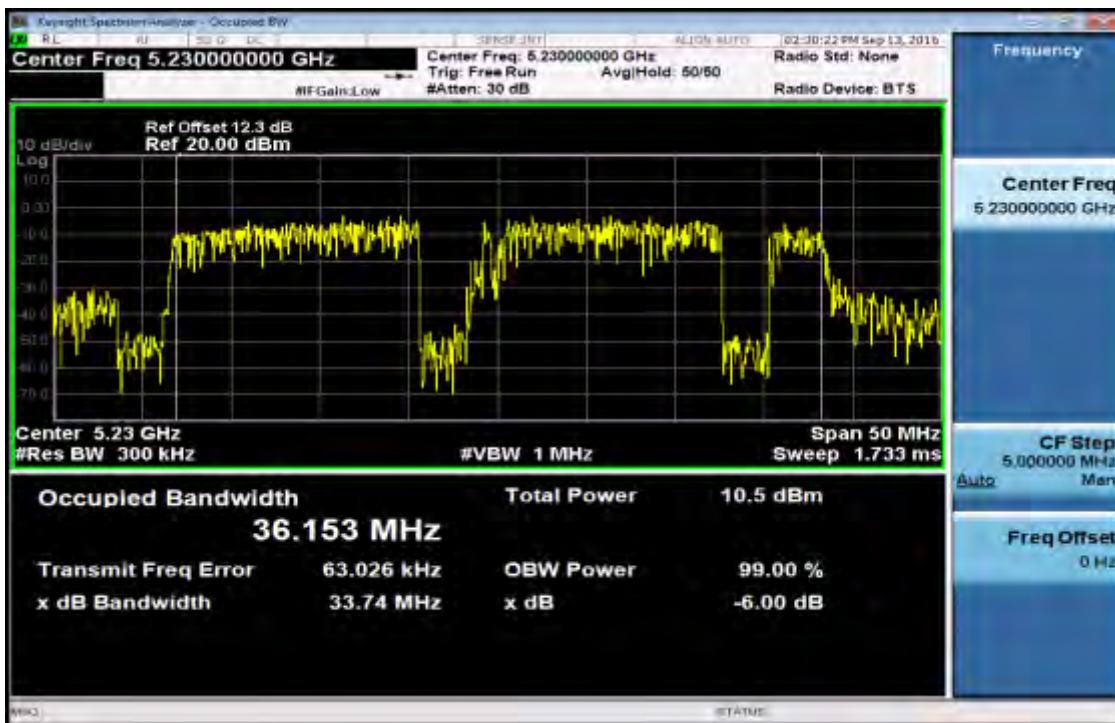
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802.11n HT40, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5190 MHz)



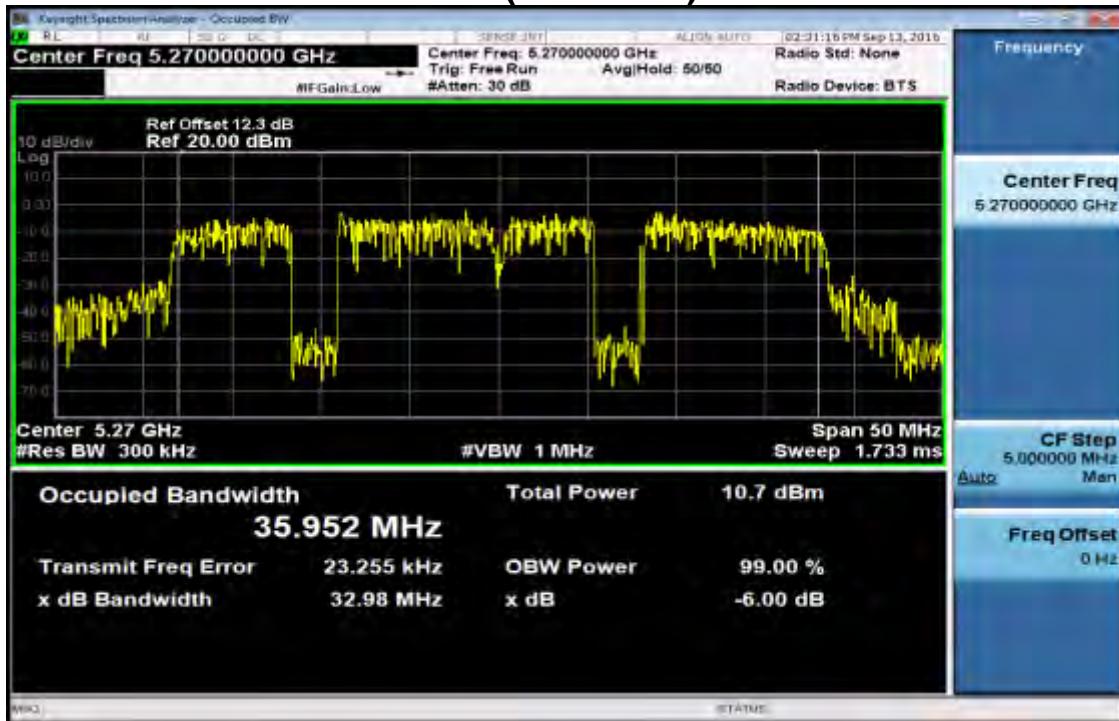
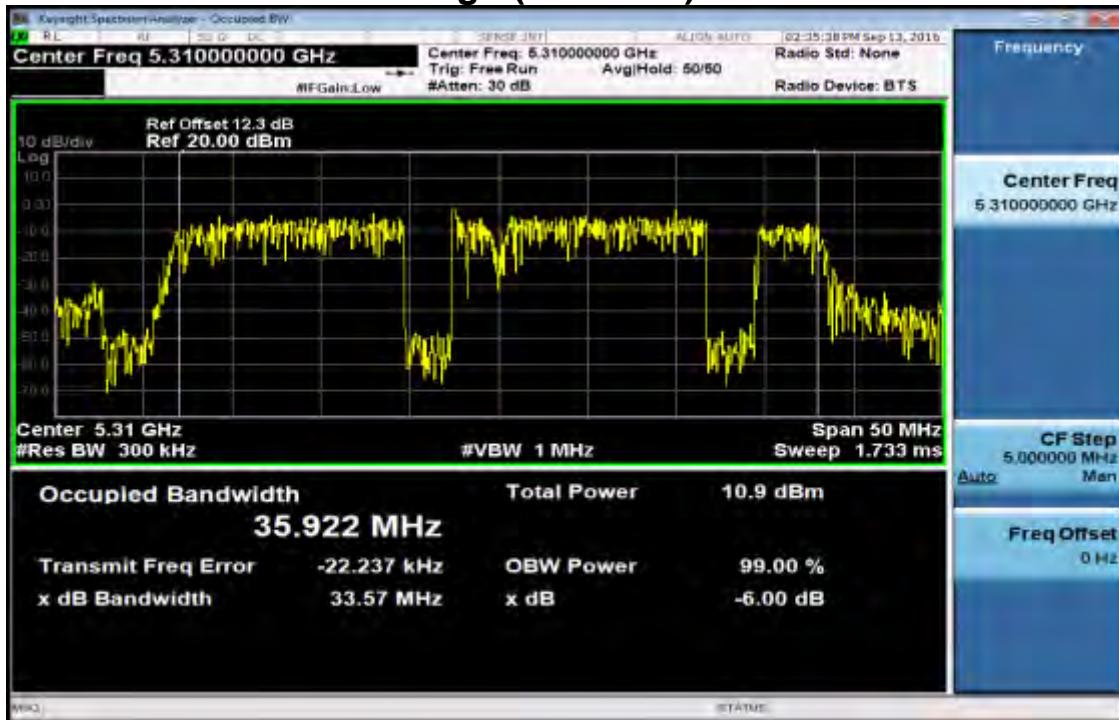
99% Band Width Test Data CH-High (5230 MHz)



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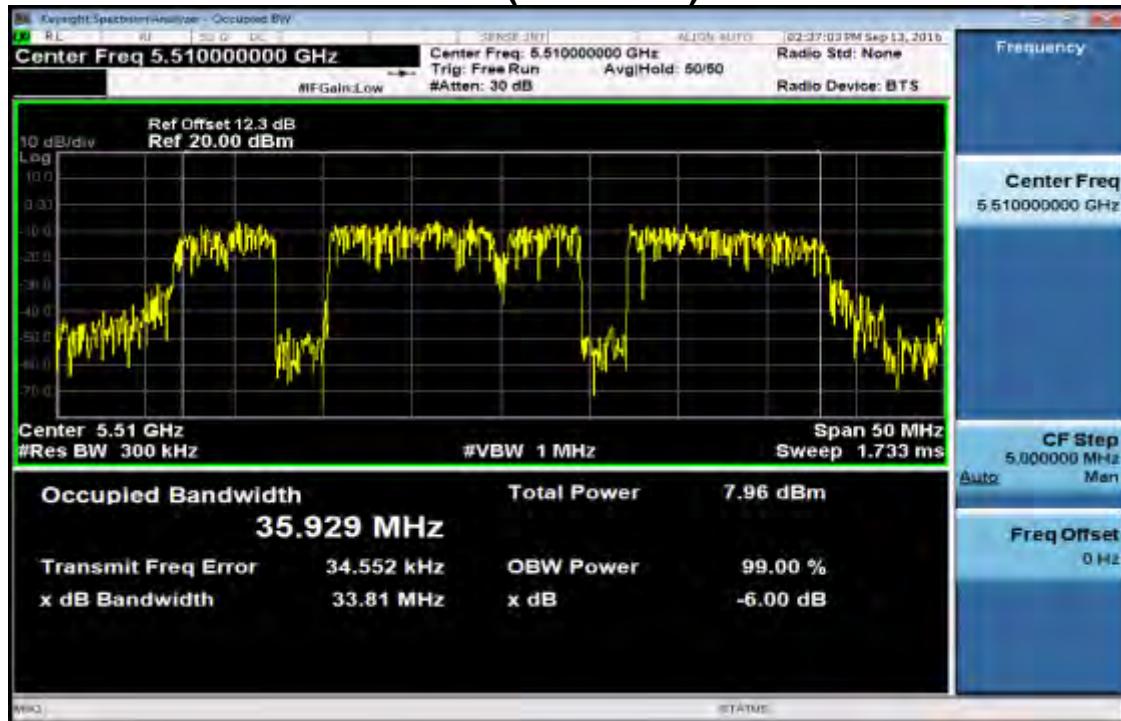
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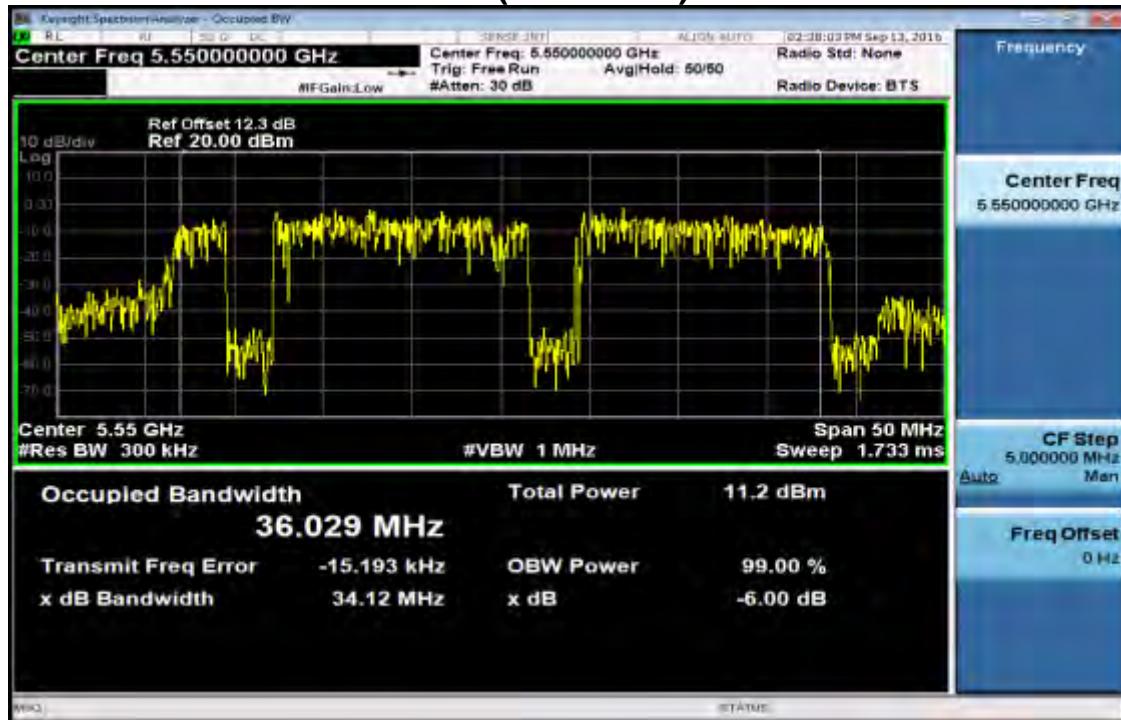
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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5510 MHz)



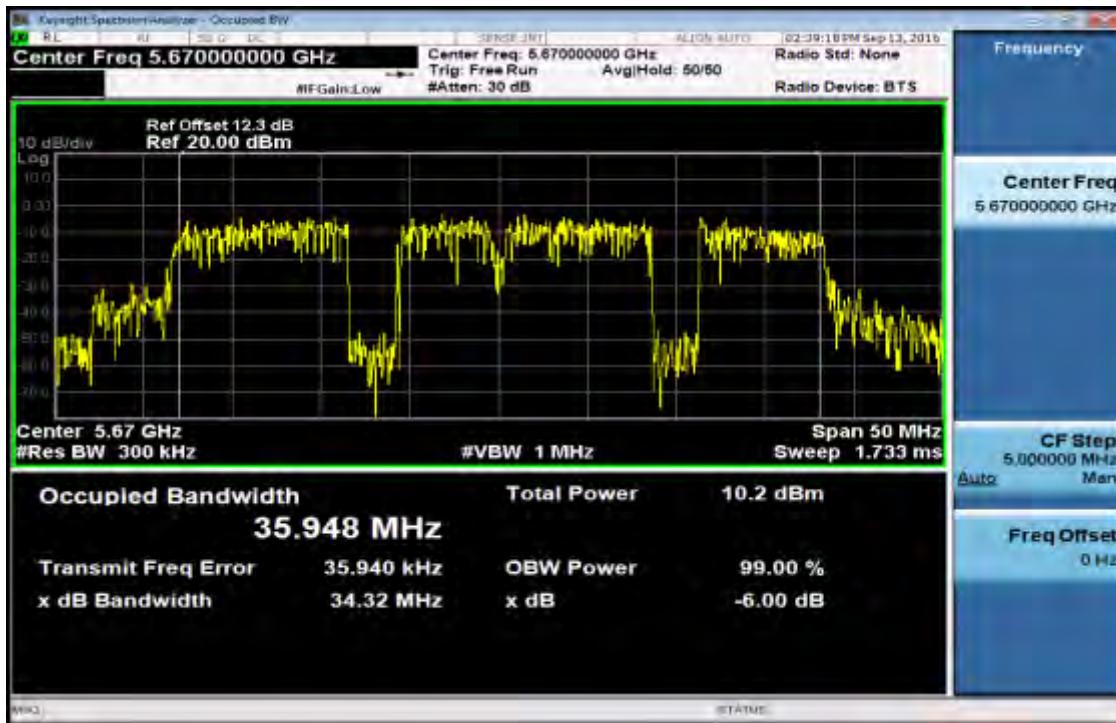
99% Band Width Test Data CH-Mid (5550 MHz)



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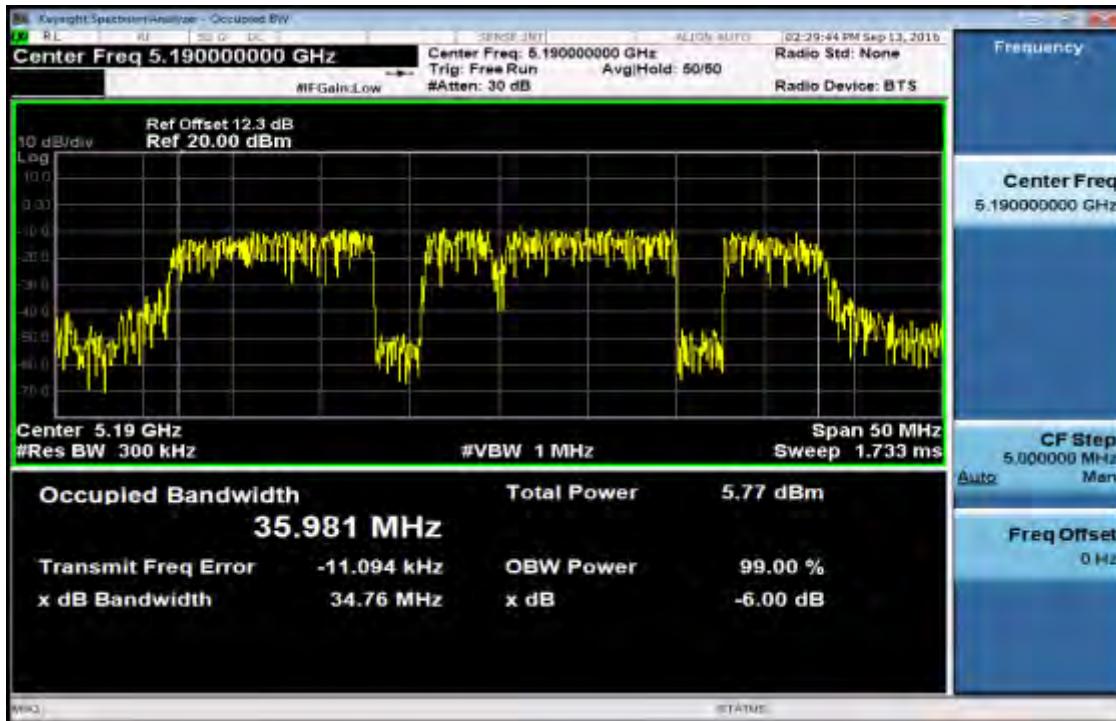
99% Band Width Test Data CH-High (5670 MHz)

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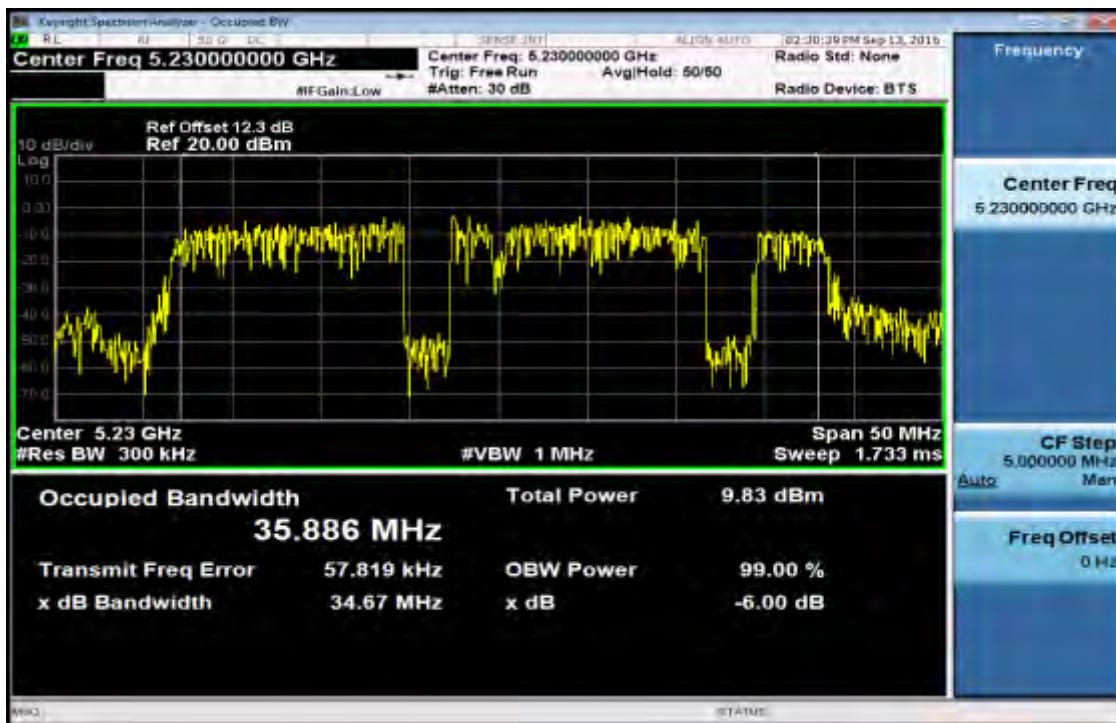
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802.11n HT40, 5150~5250 MHz (Aux1) 99% Band Width Test Data CH-Low (5190 MHz)



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

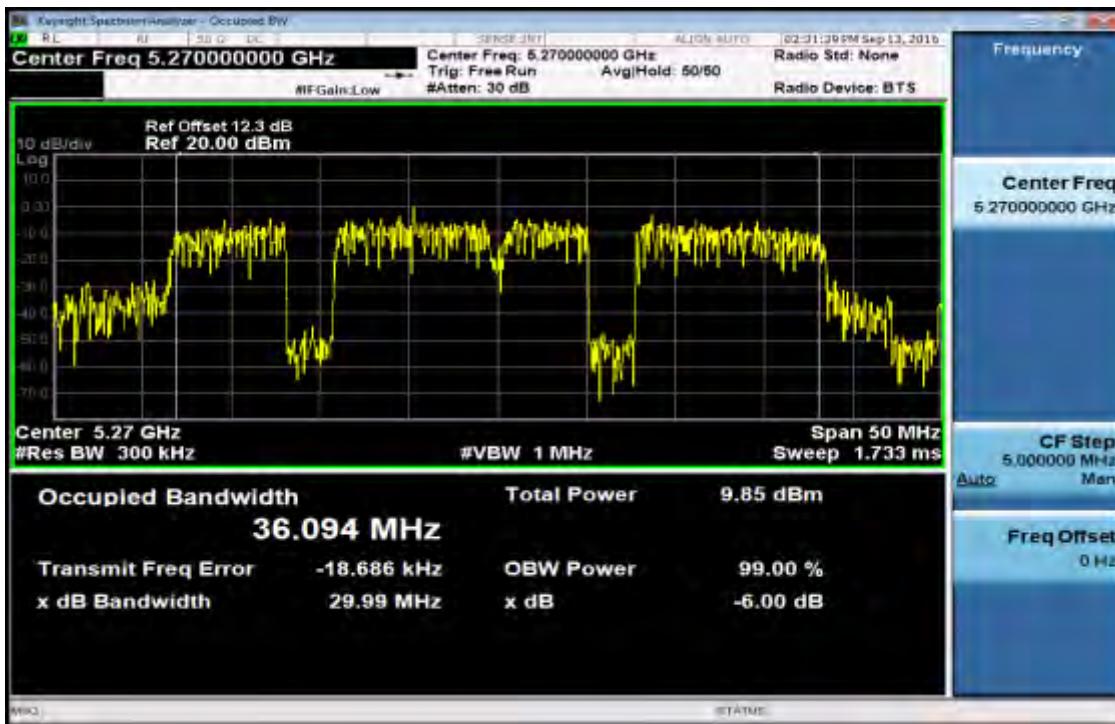


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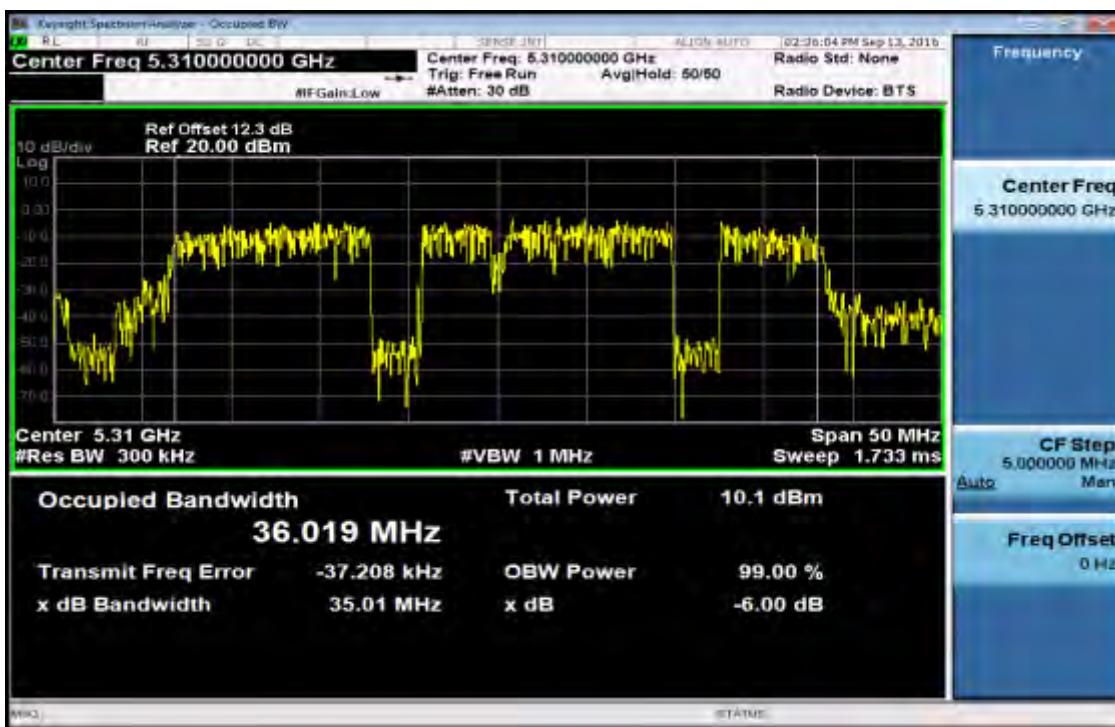
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802.11n HT40, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Low (5270 MHz)



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



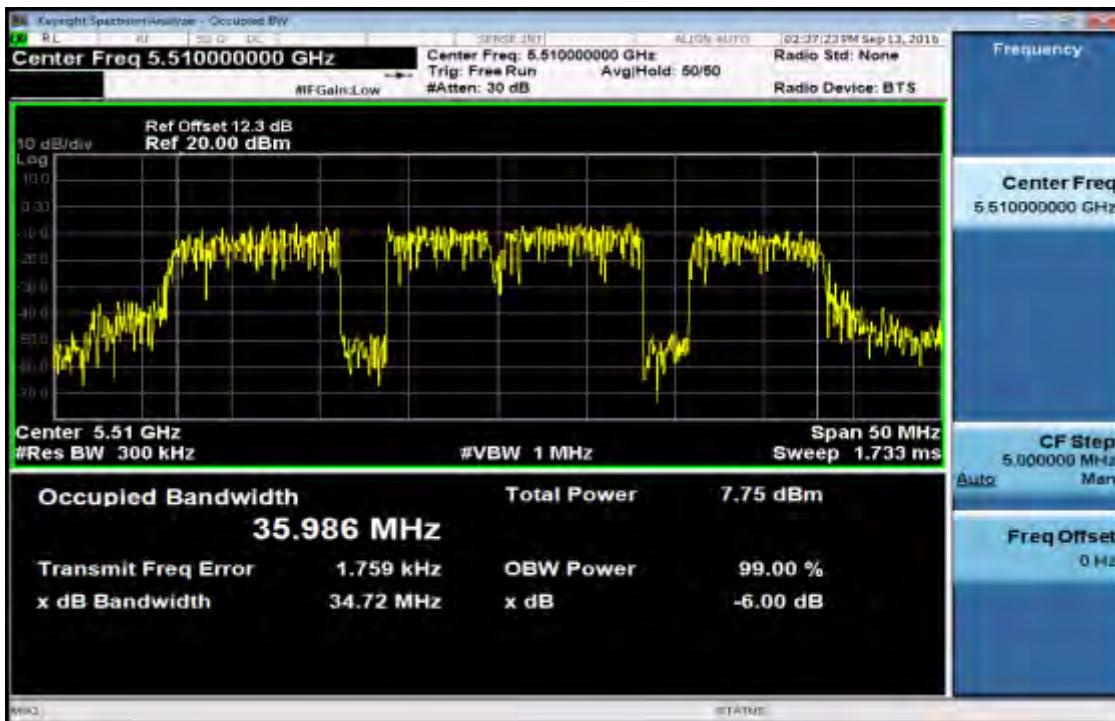
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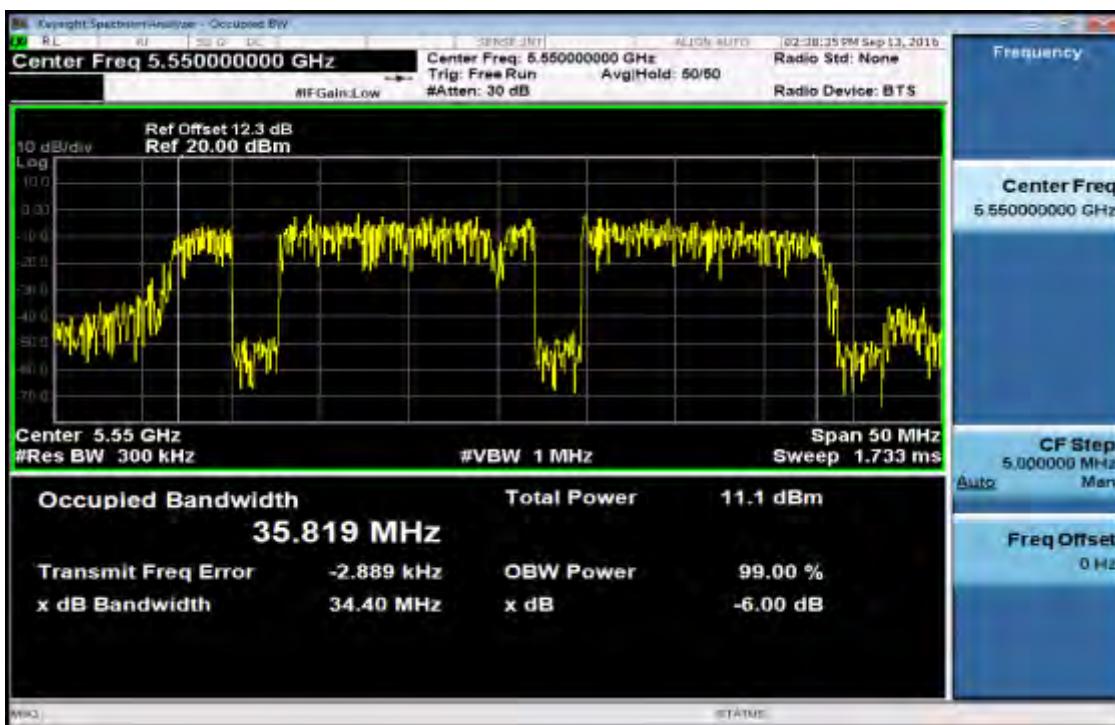
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802.11n HT40, 5470~5725 MHz (Aux1) 99% Band Width Test Data CH-Low (5510 MHz)



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

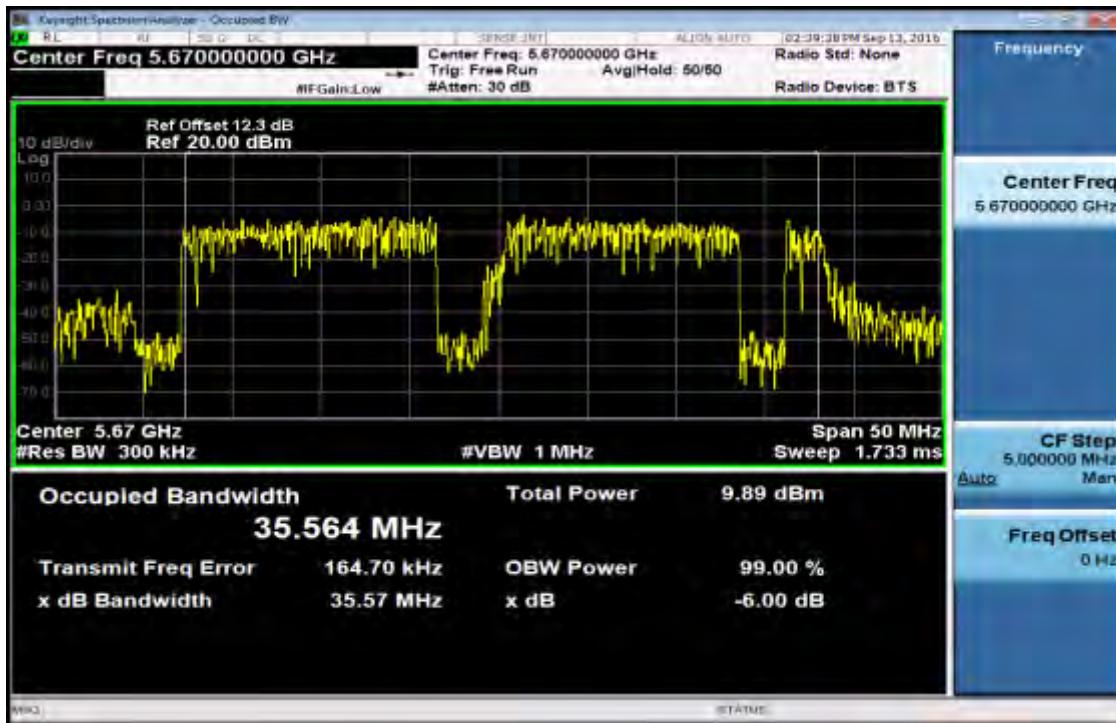


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99% Band Width Test Data CH-High (5670 MHz)

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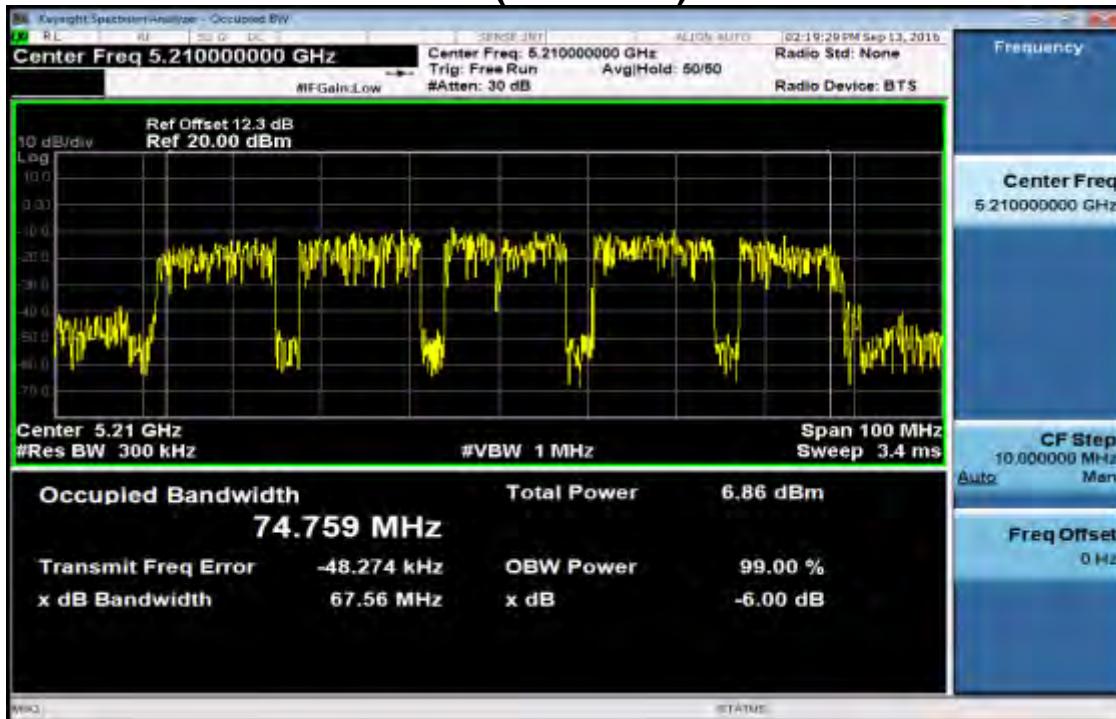
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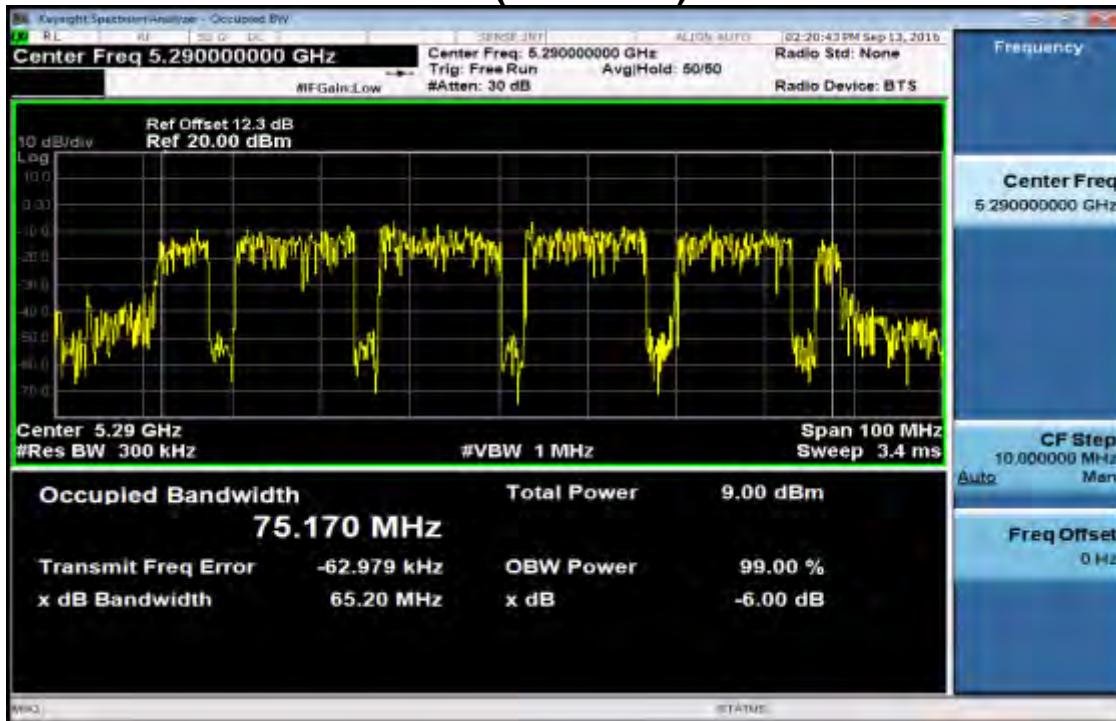
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



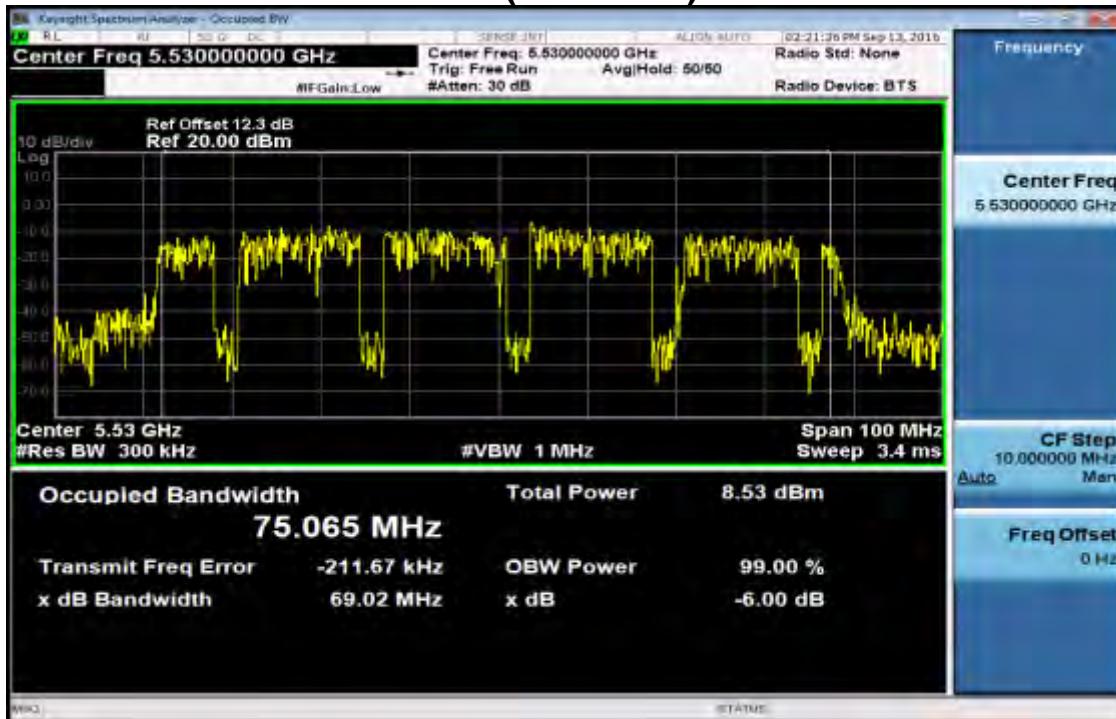
802.11ac VHT80, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Mid (5290 MHz)



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

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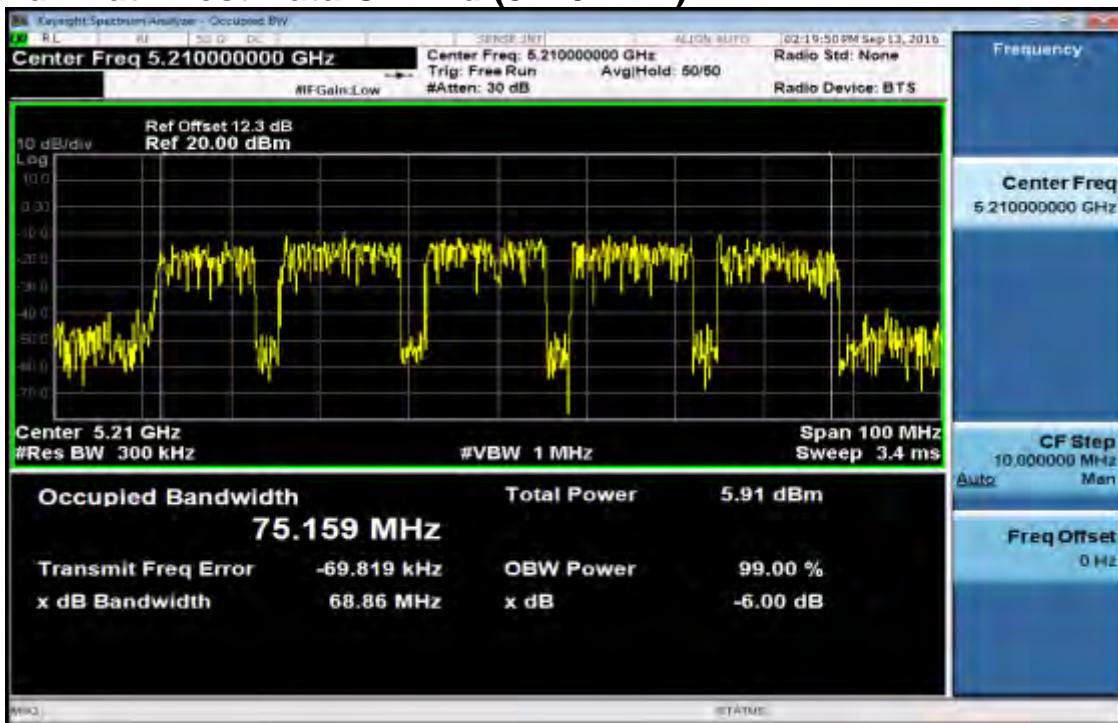
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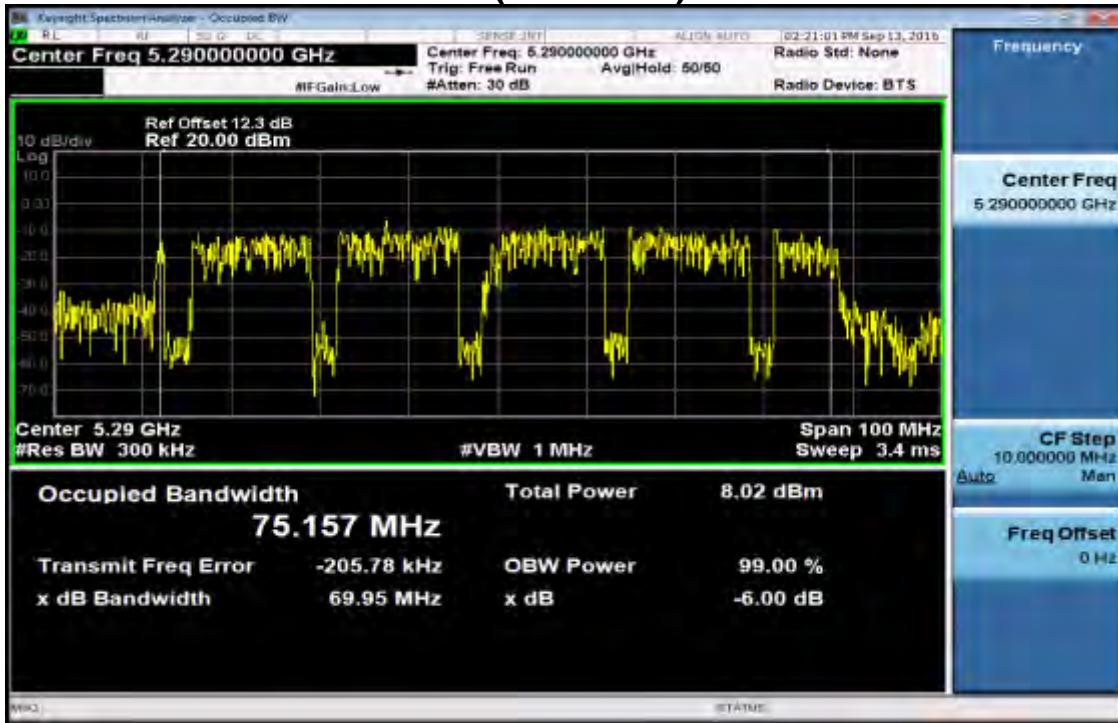
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802.11ac VHT80, 5150~5250 MHz (Aux1) 99% Band Width Test Data CH-Mid (5210 MHz)



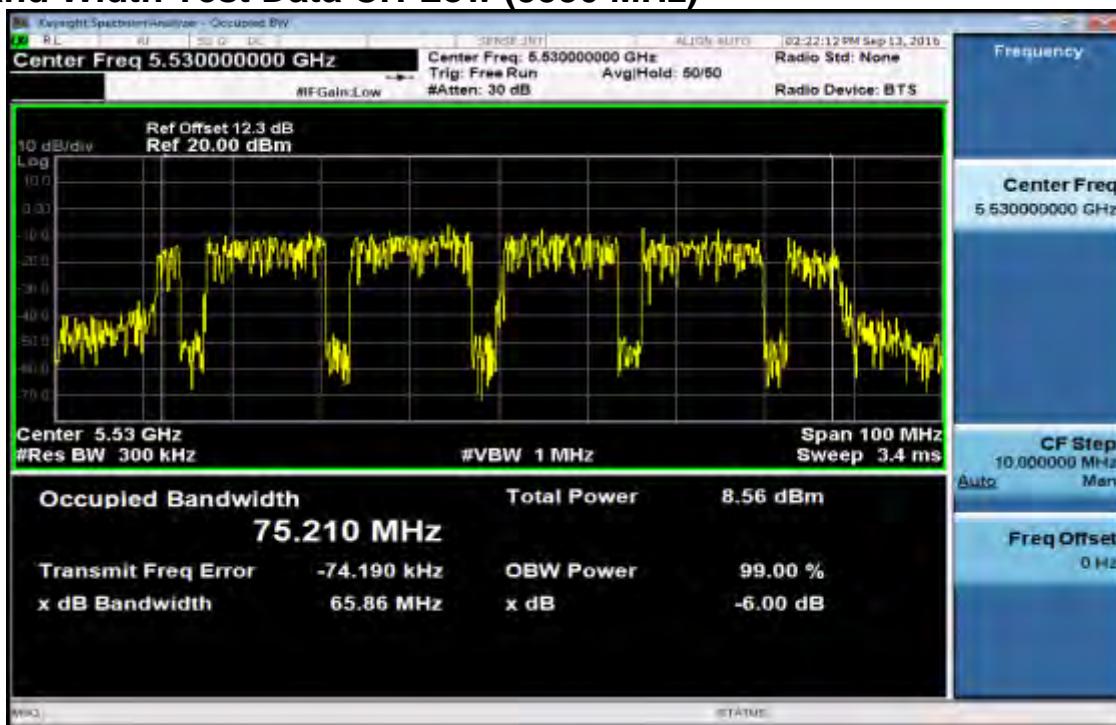
802.11ac VHT80, 5250~5350 MHz (Aux1) 99% Band Width Test Data CH-Mid (5290 MHz)



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**802.11ac VHT80, 5470~5725 MHz (Aux1)
99% Band Width Test Data CH-Low (5530 MHz)**

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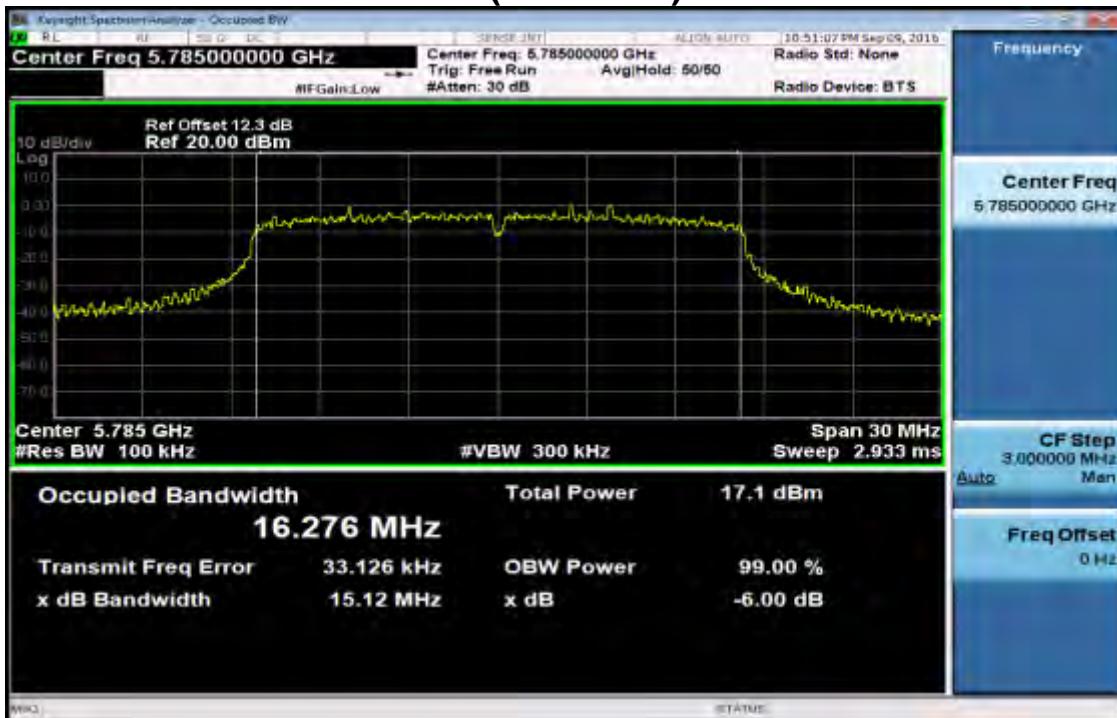
6dB Band Width measure with Peak detector for FCC

802.11a, 5725~5850 MHz (Main)

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



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



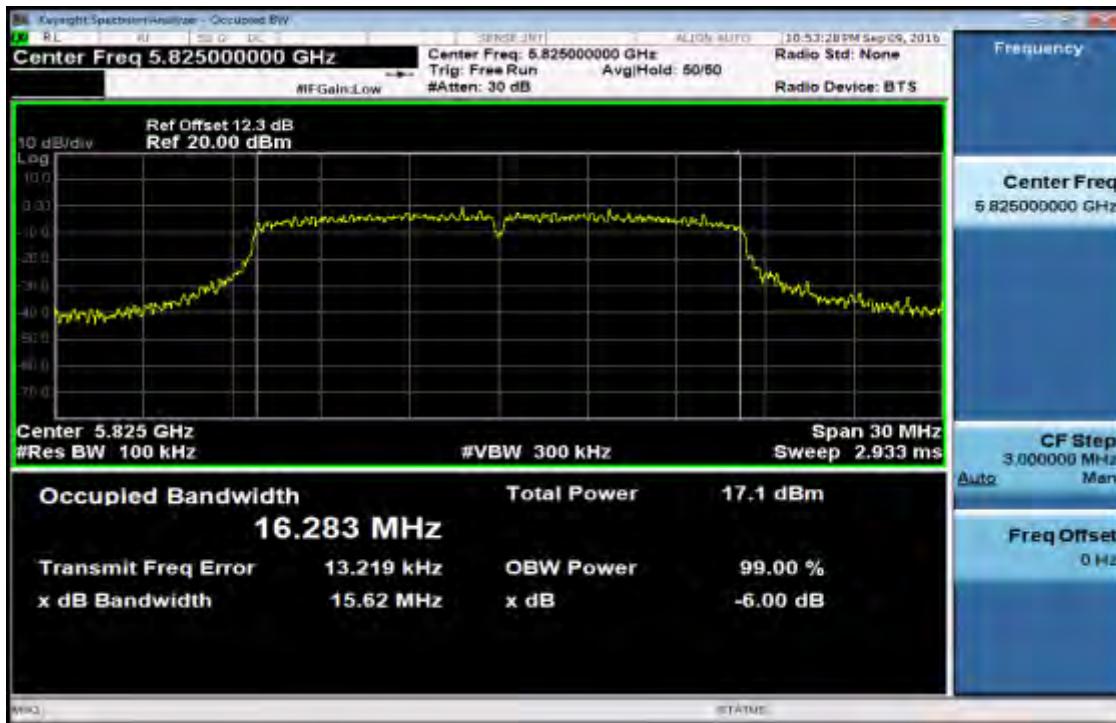
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6dB Band Width Test Data CH-High (5825 MHz)



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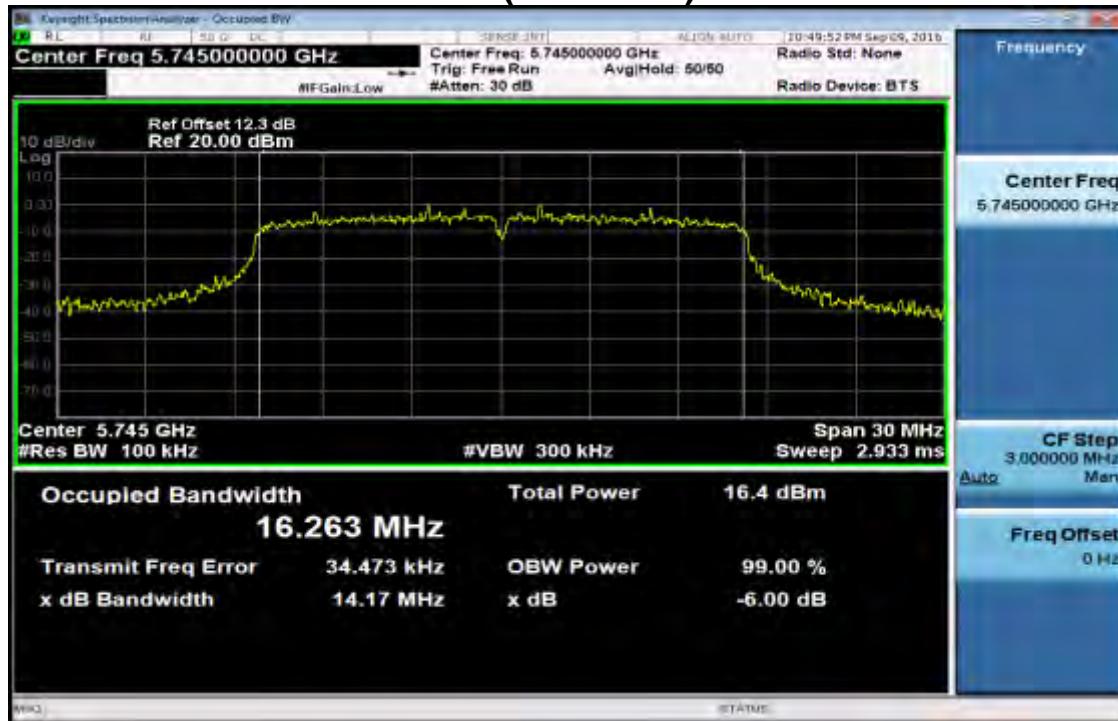
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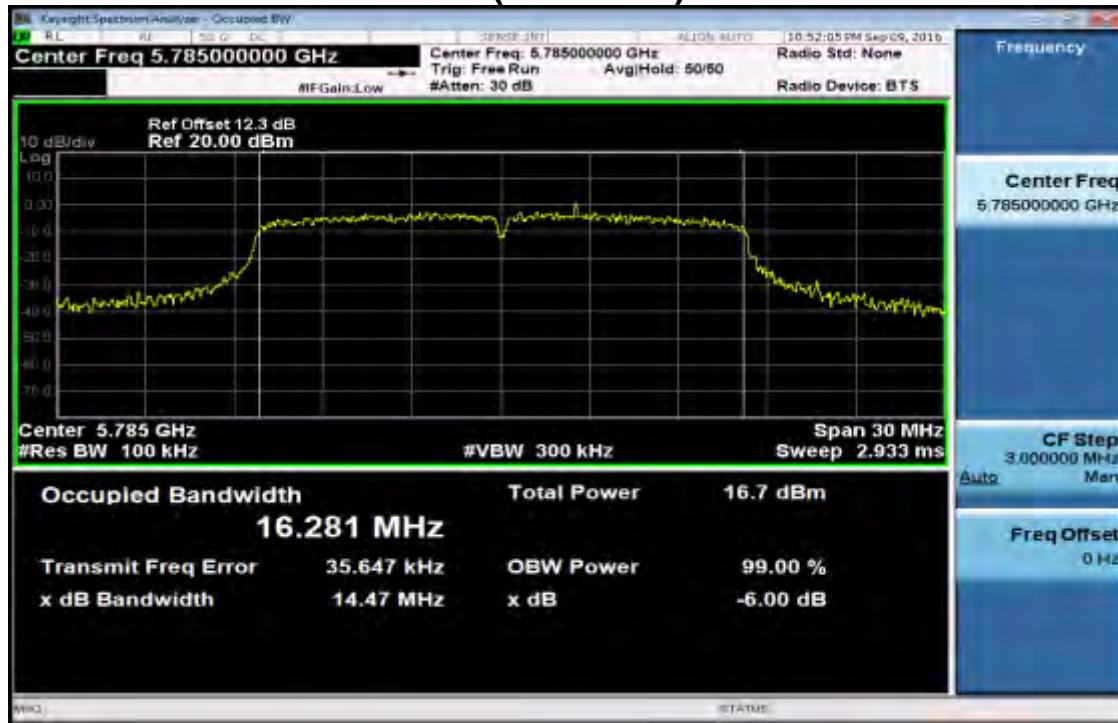
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802.11a, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



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

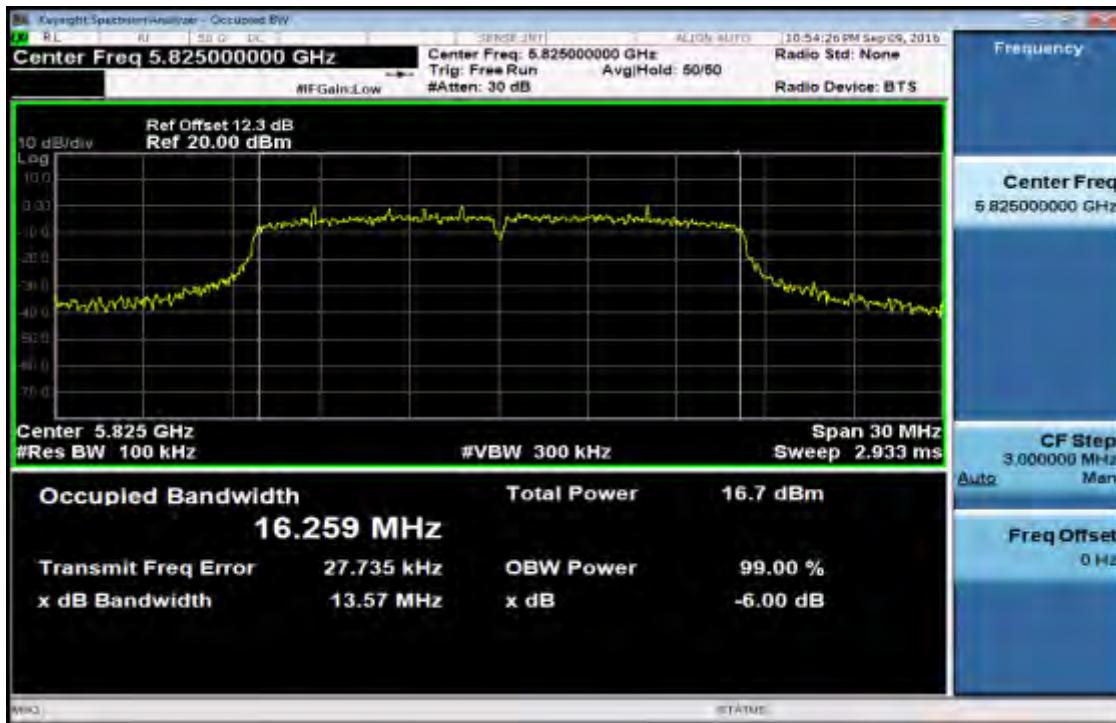


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6dB Band Width Test Data CH-High (5825 MHz)

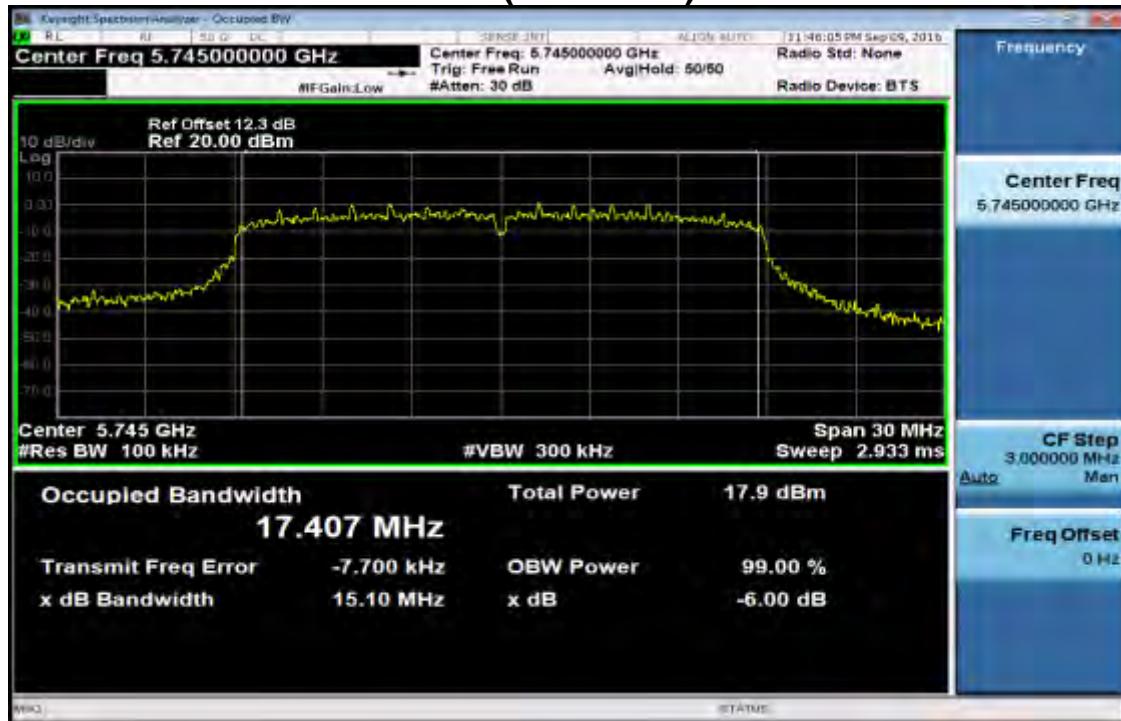


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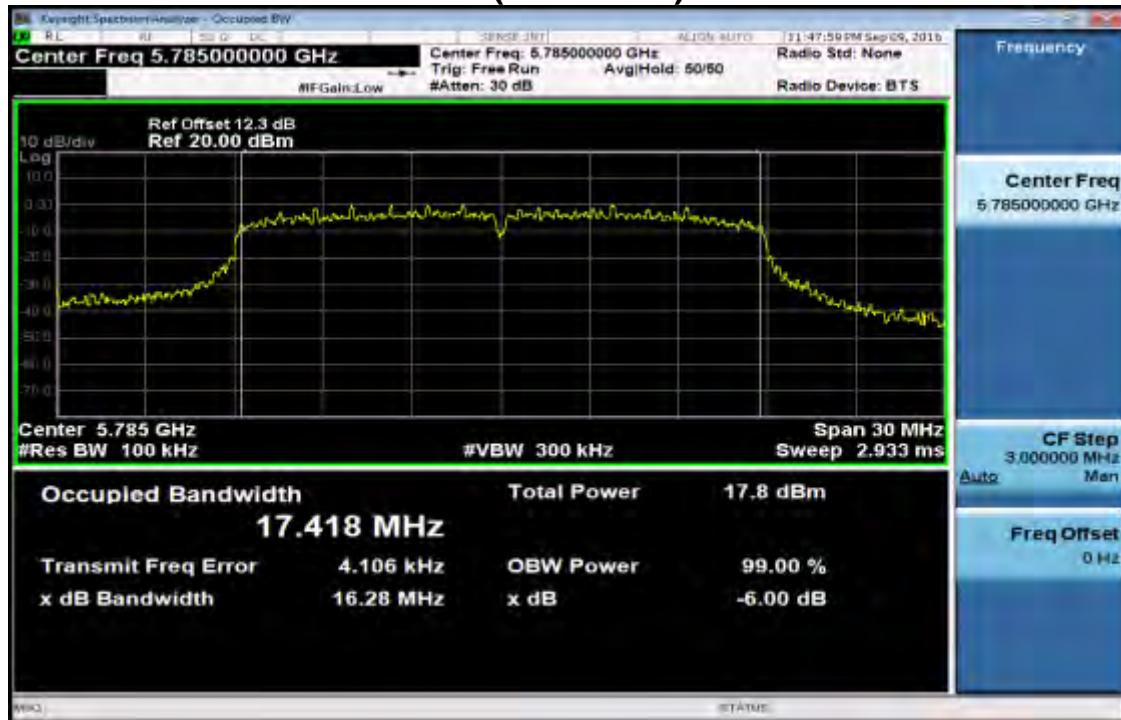
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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

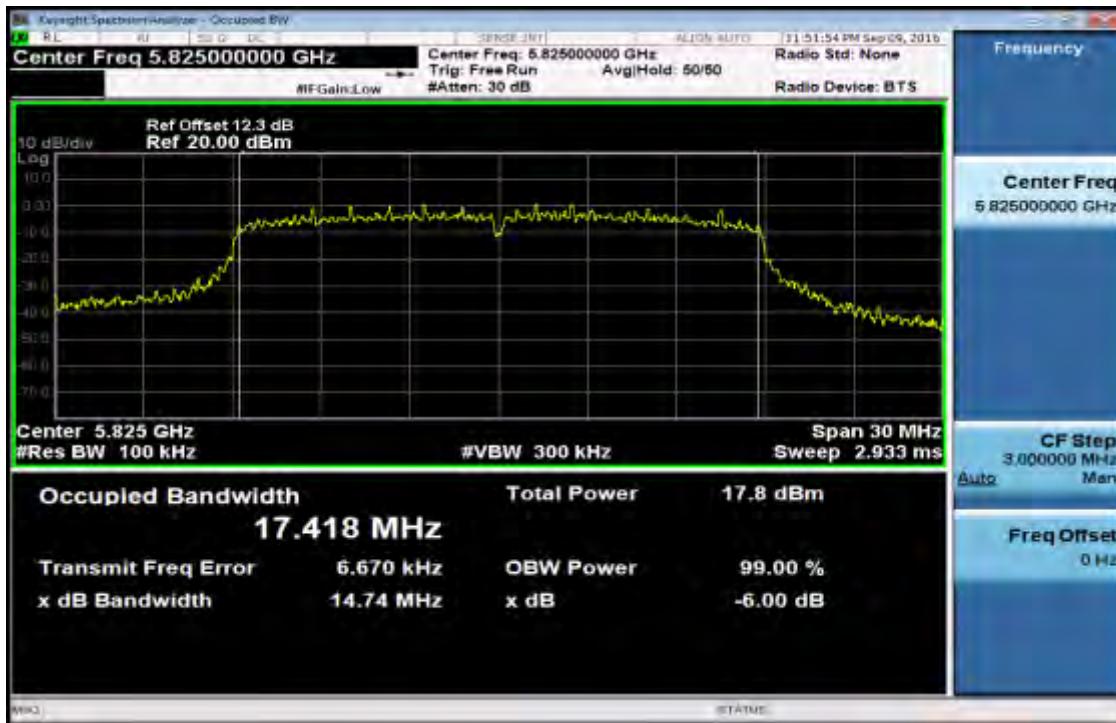


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6dB Band Width Test Data CH-High (5825 MHz)



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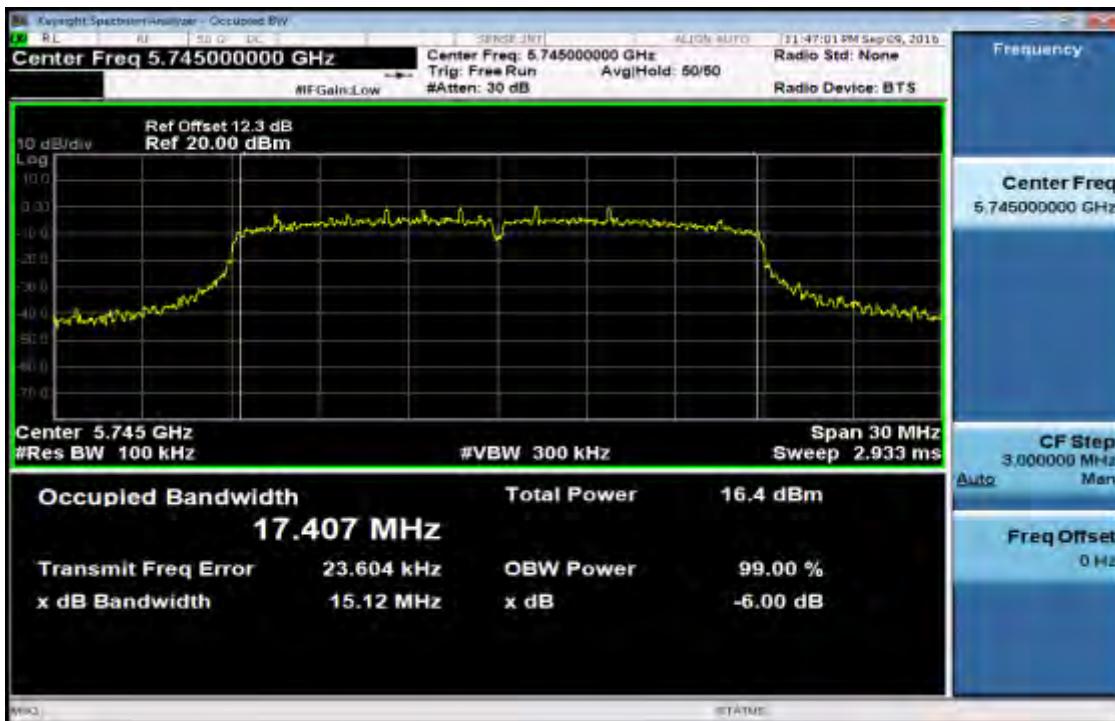
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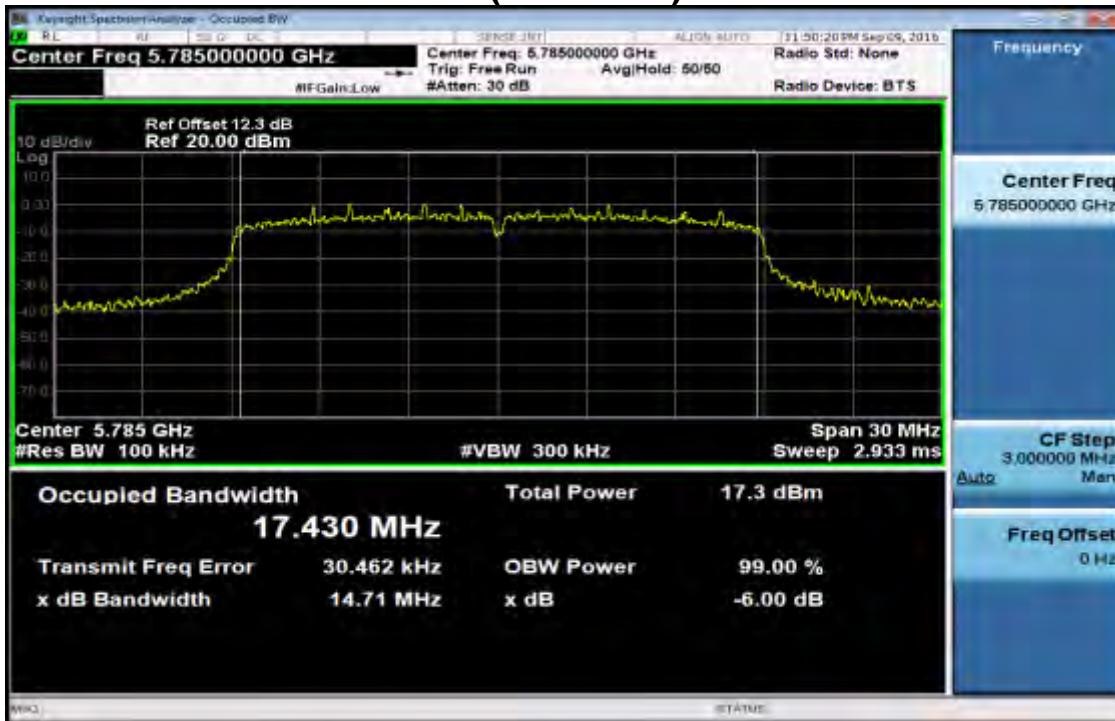
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802.11n_HT20, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)

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



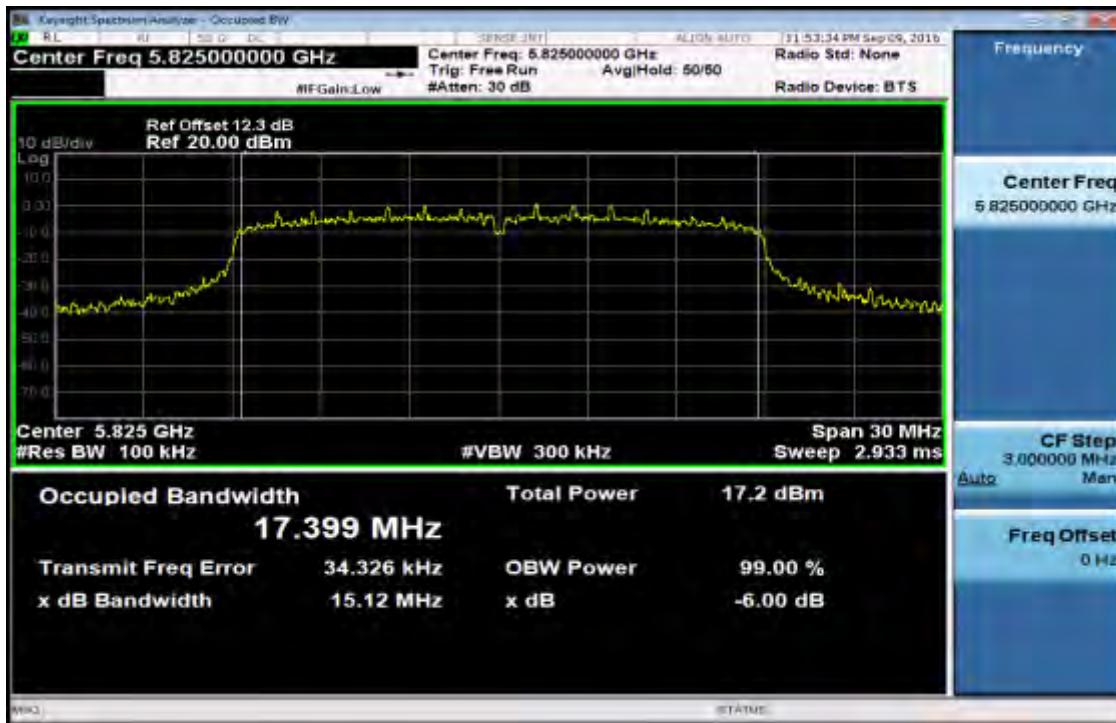
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6dB Band Width Test Data CH-High (5825 MHz)

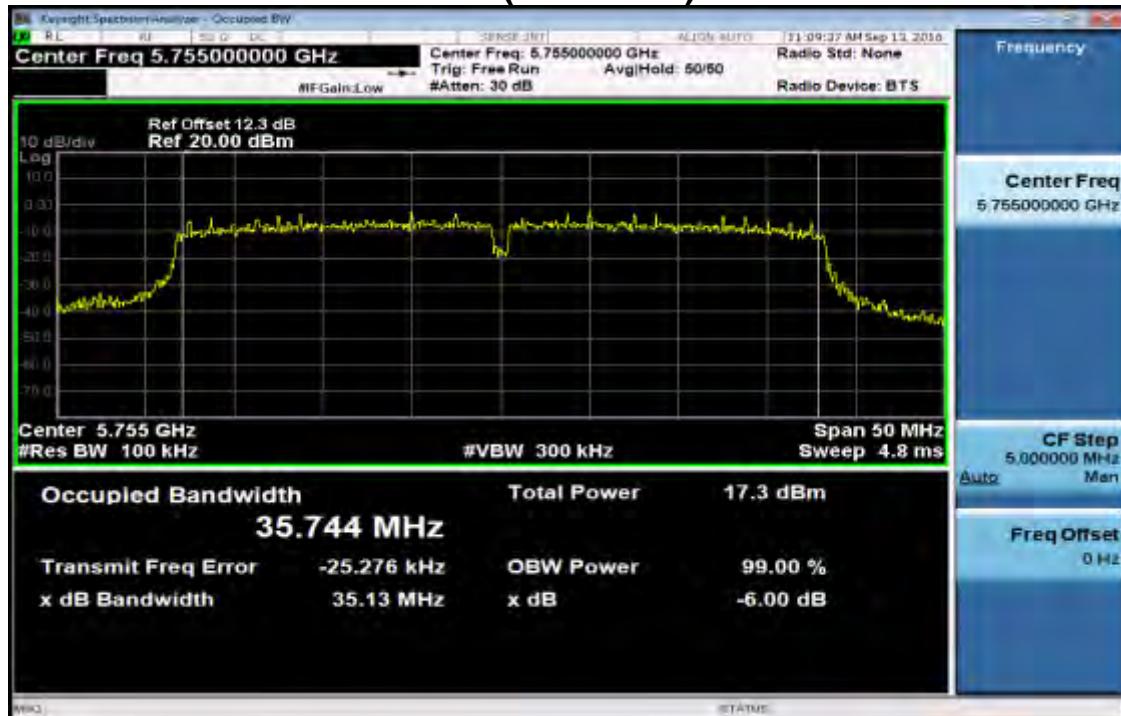


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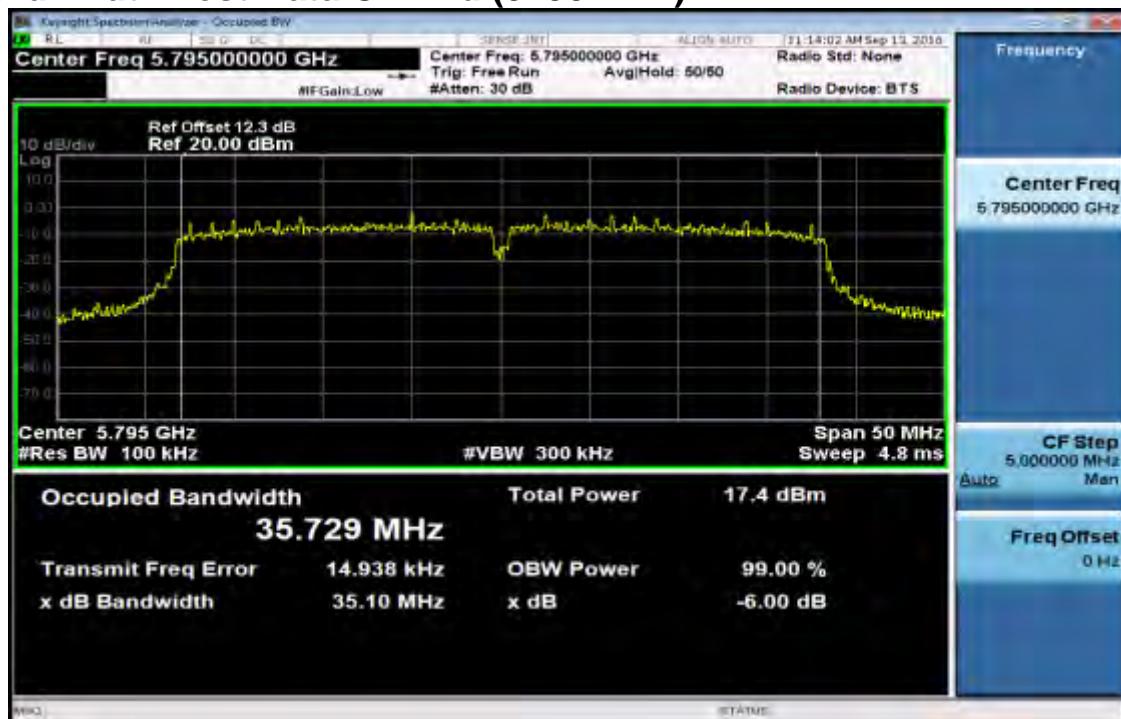
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802.11n_HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



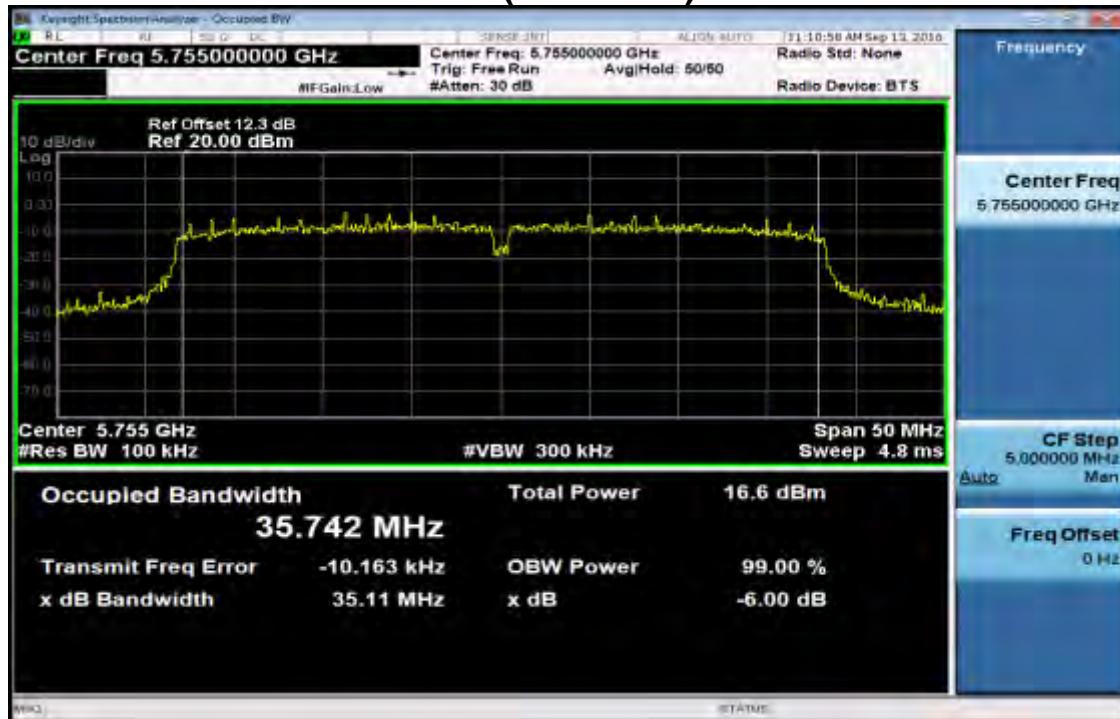
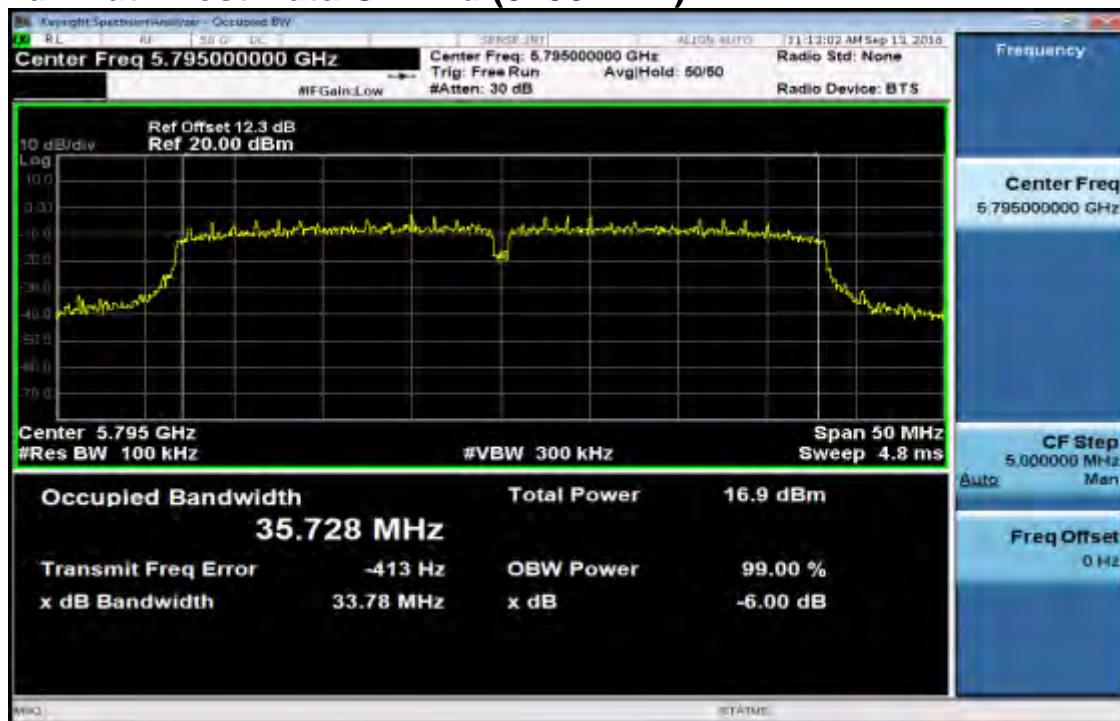
6dB Band Width Test Data CH-Mid (5795 MHz)



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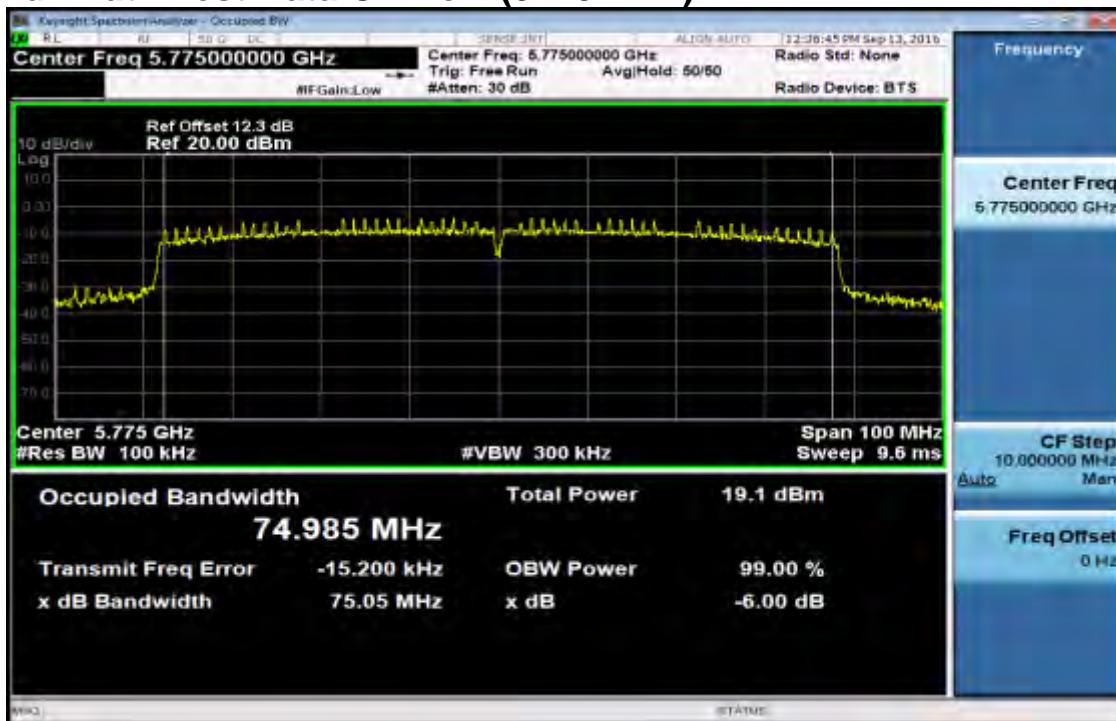
**802.11n_HT40, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5755 MHz)****6dB Band Width Test Data CH-Mid (5795 MHz)**

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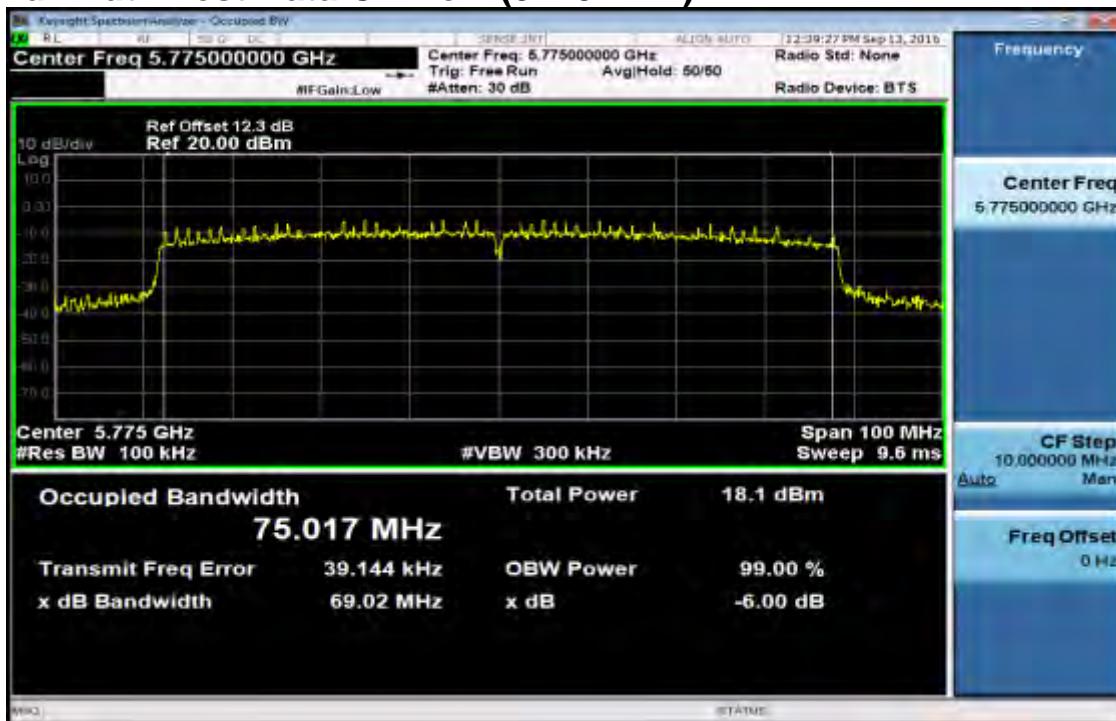
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5775 MHz)



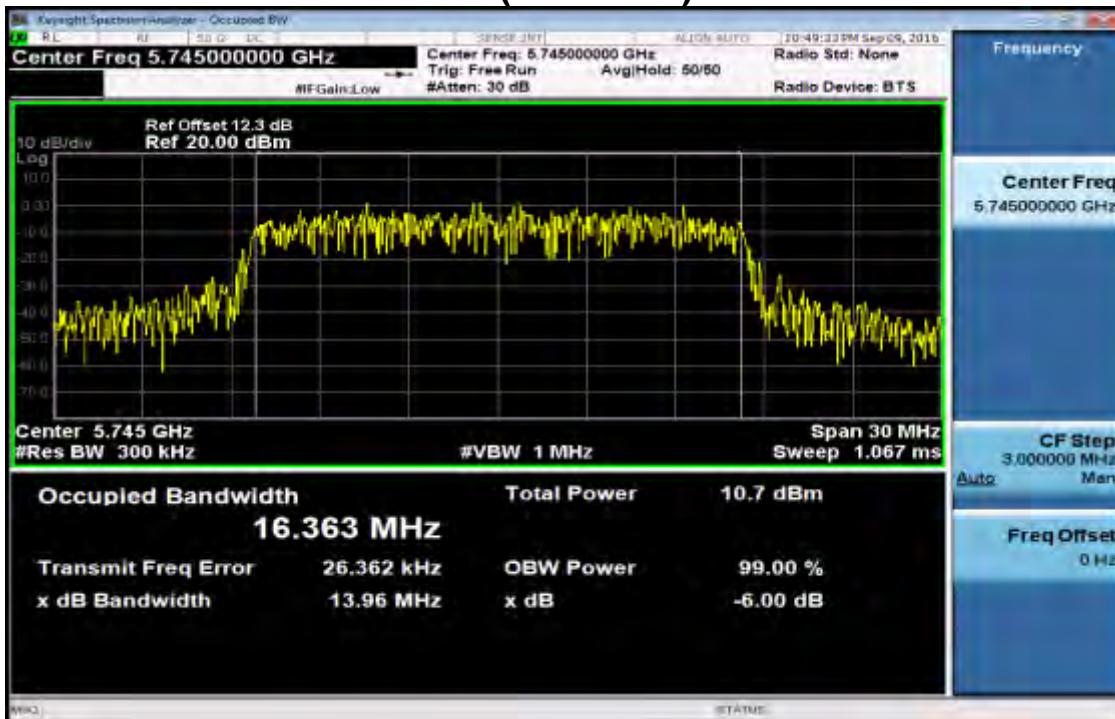
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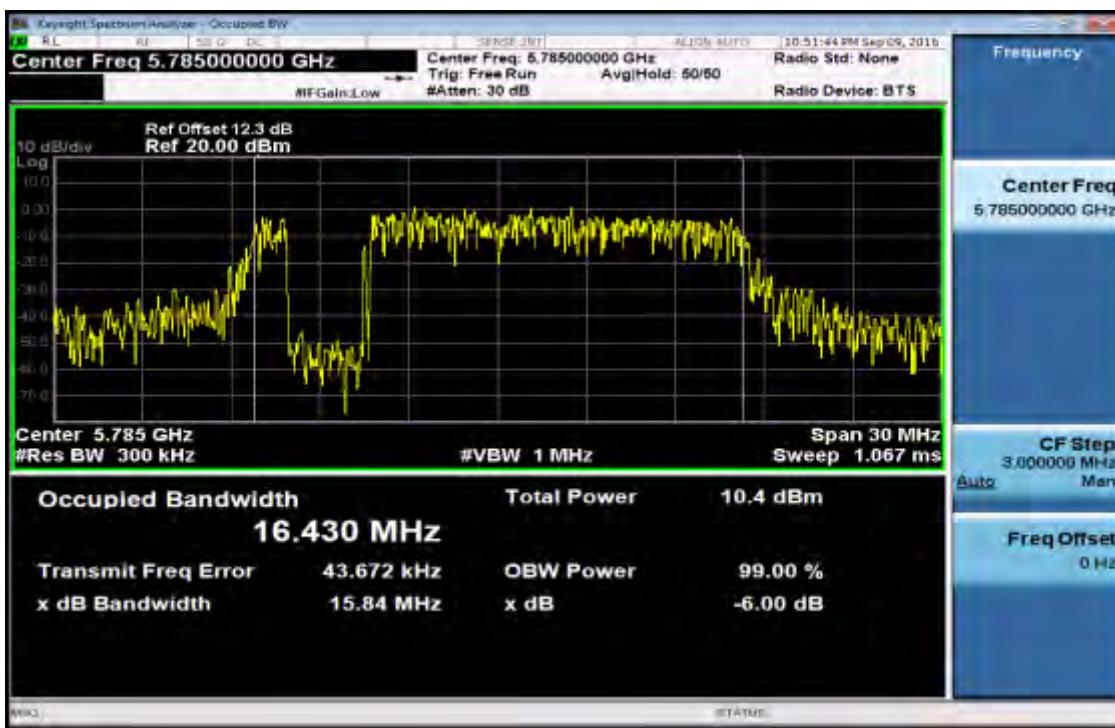
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main)

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



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



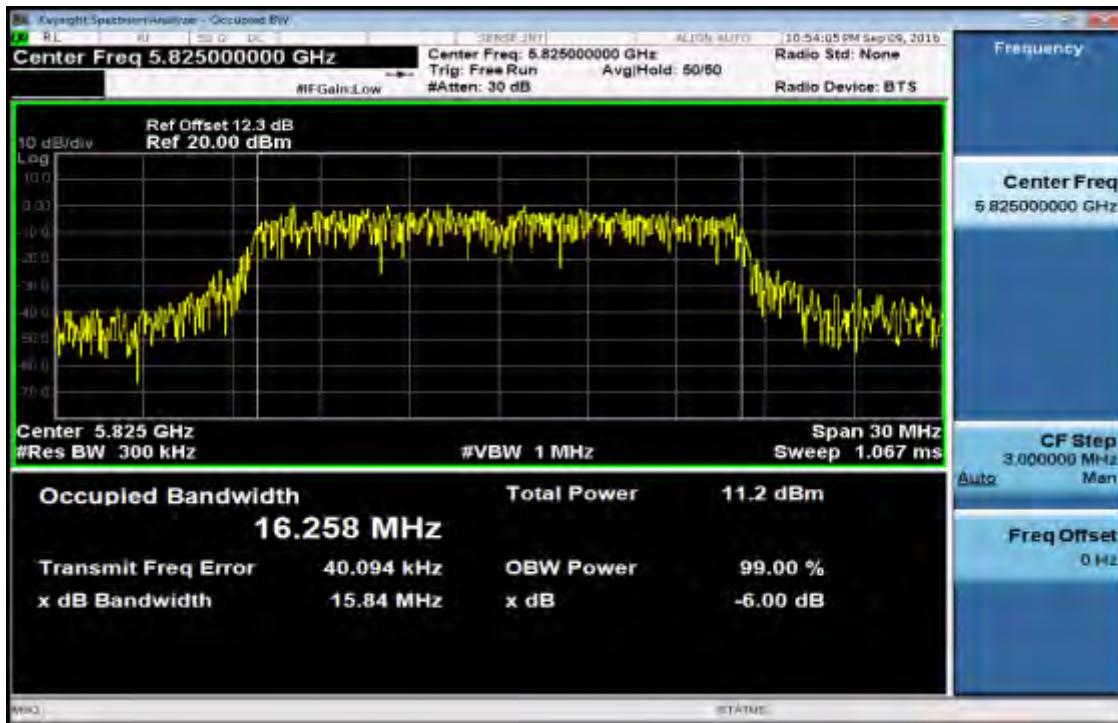
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6dB Band Width Test Data CH-High (5825 MHz)

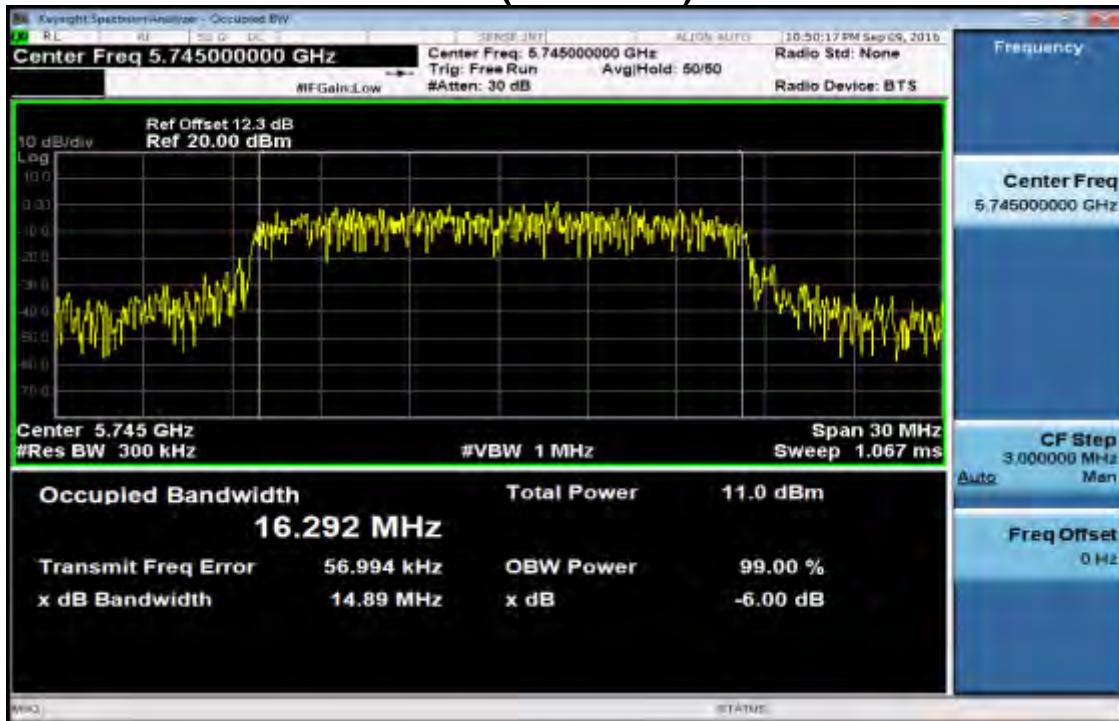


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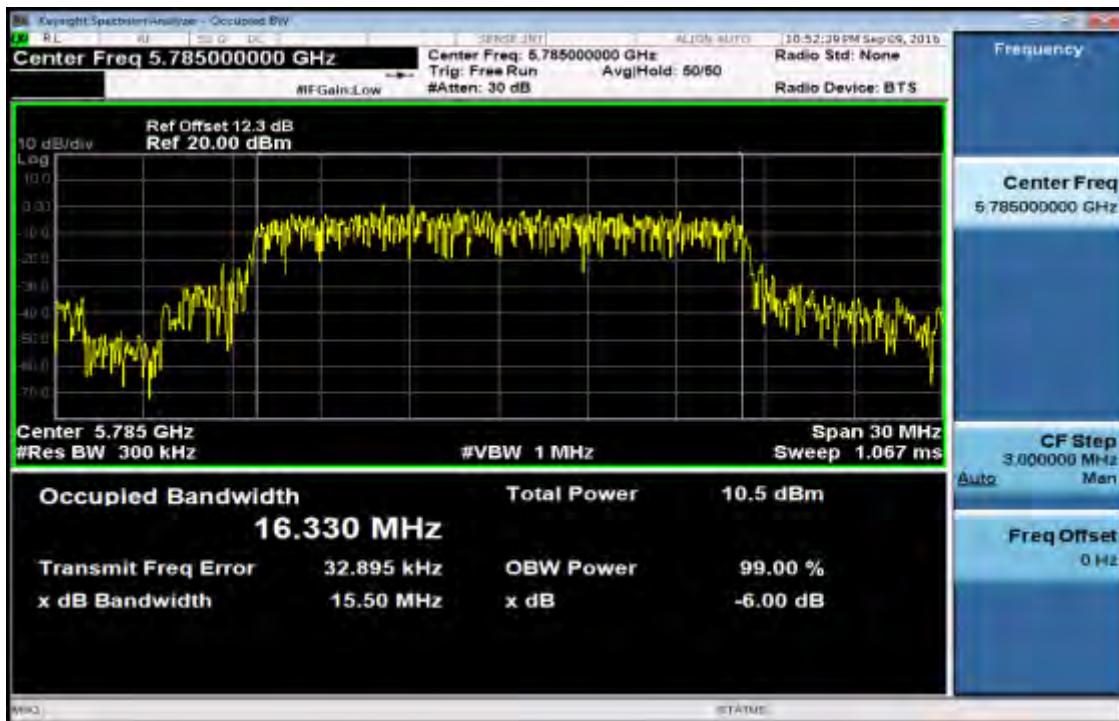
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802.11a, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



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

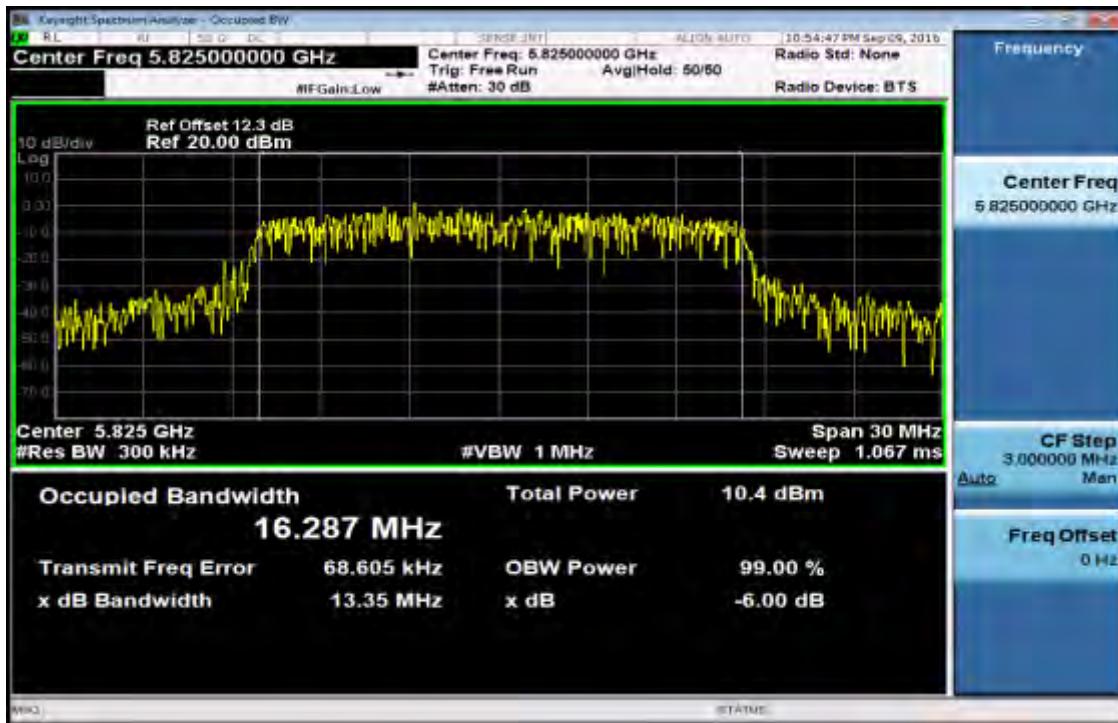


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6dB Band Width Test Data CH-High (5825 MHz)



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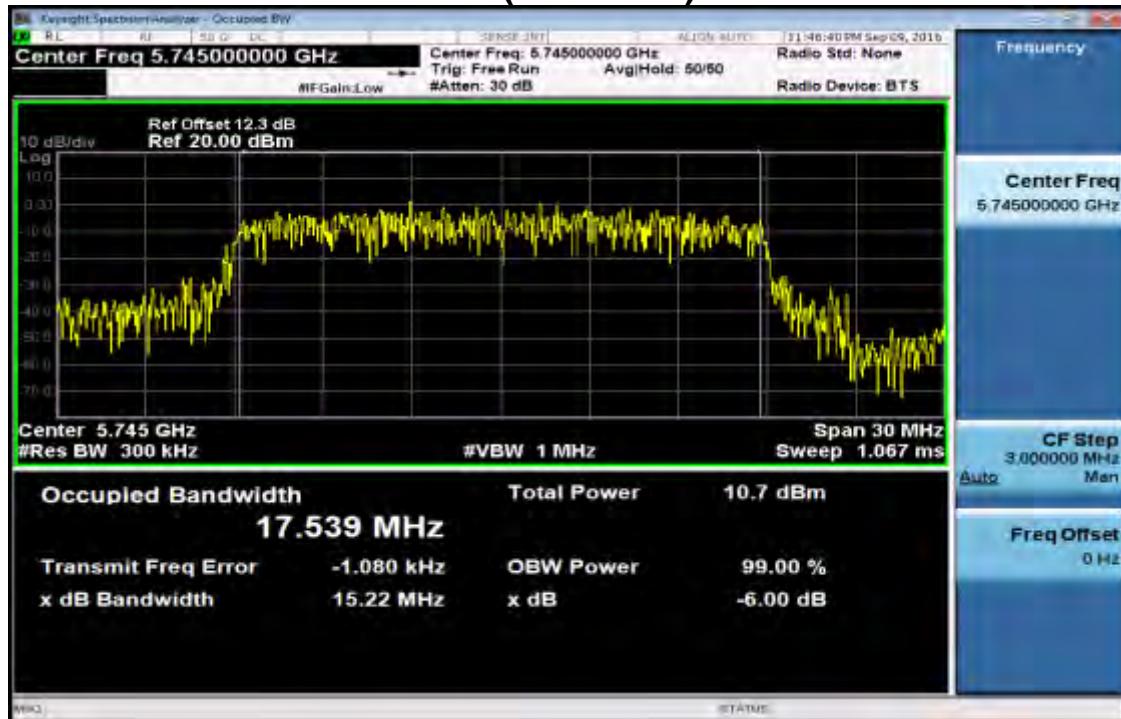
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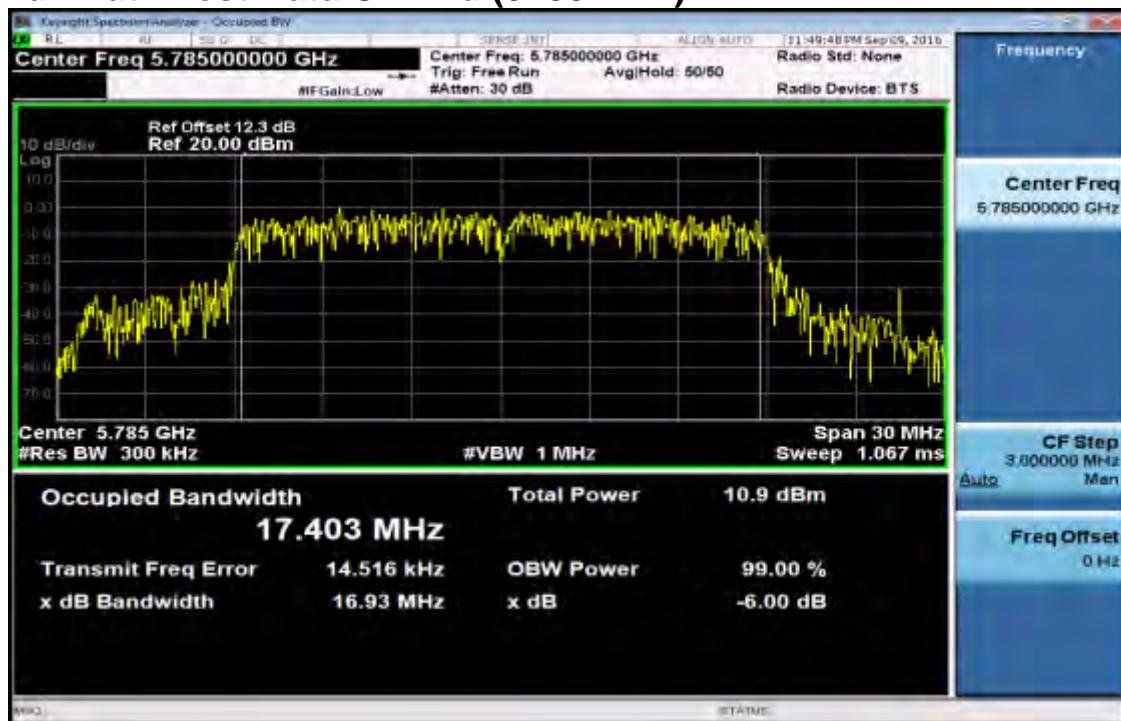
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802.11n_HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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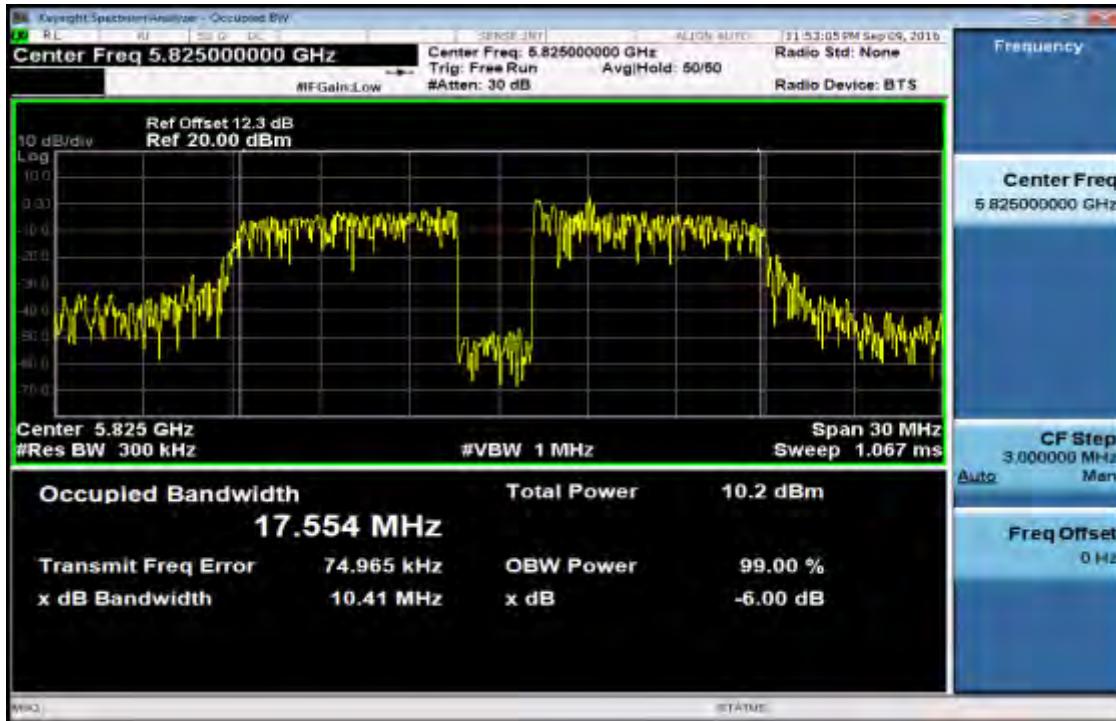
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6dB Band Width Test Data CH-High (5825 MHz)

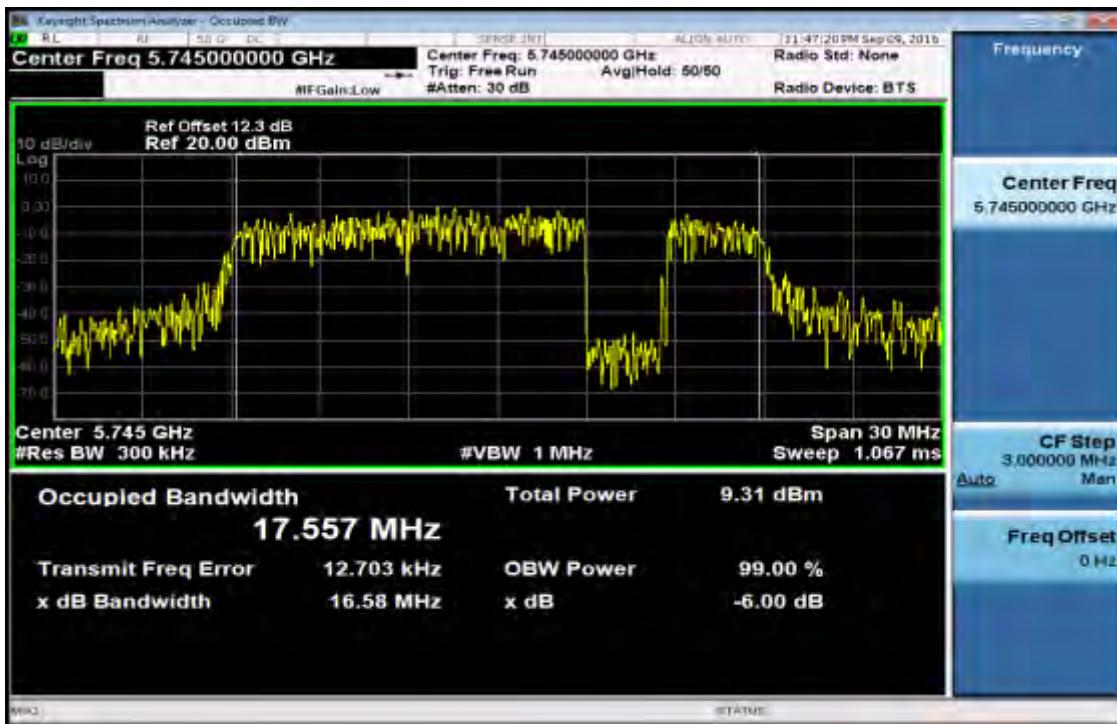


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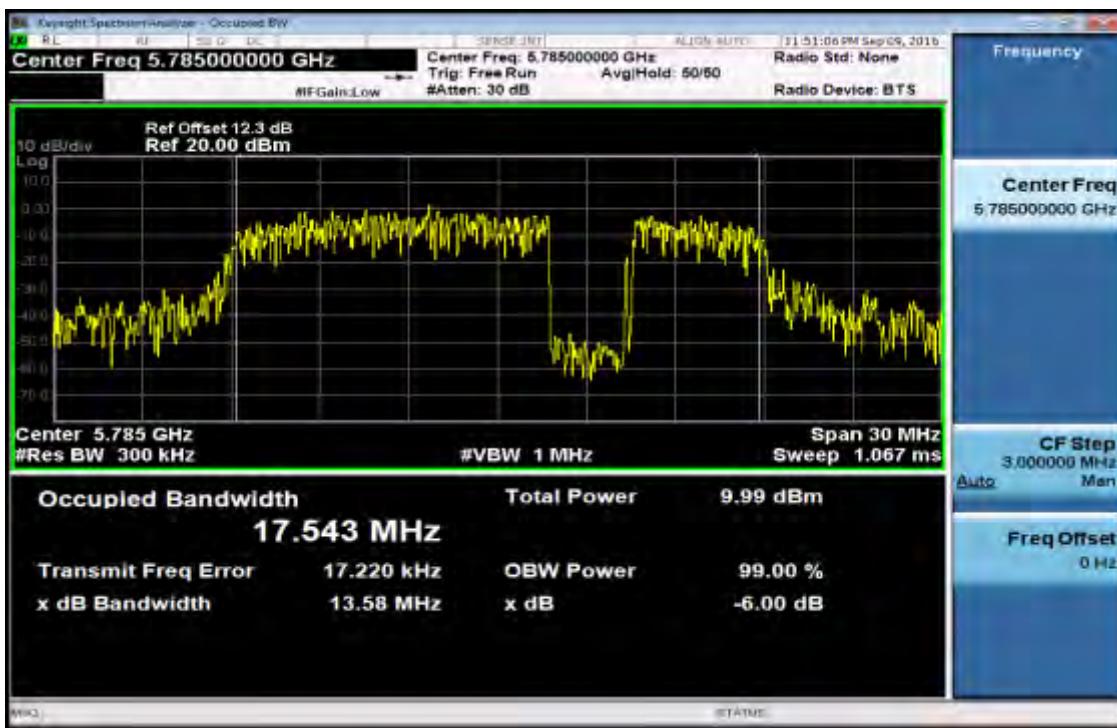
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802.11n_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)



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

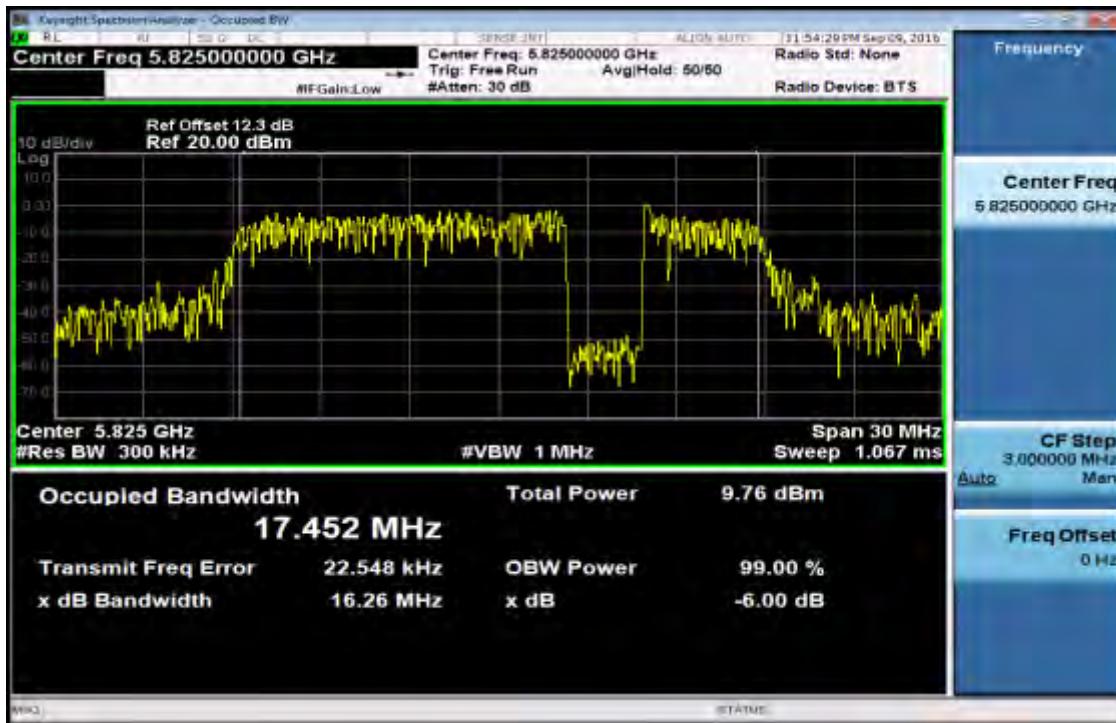


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6dB Band Width Test Data CH-High (5825 MHz)



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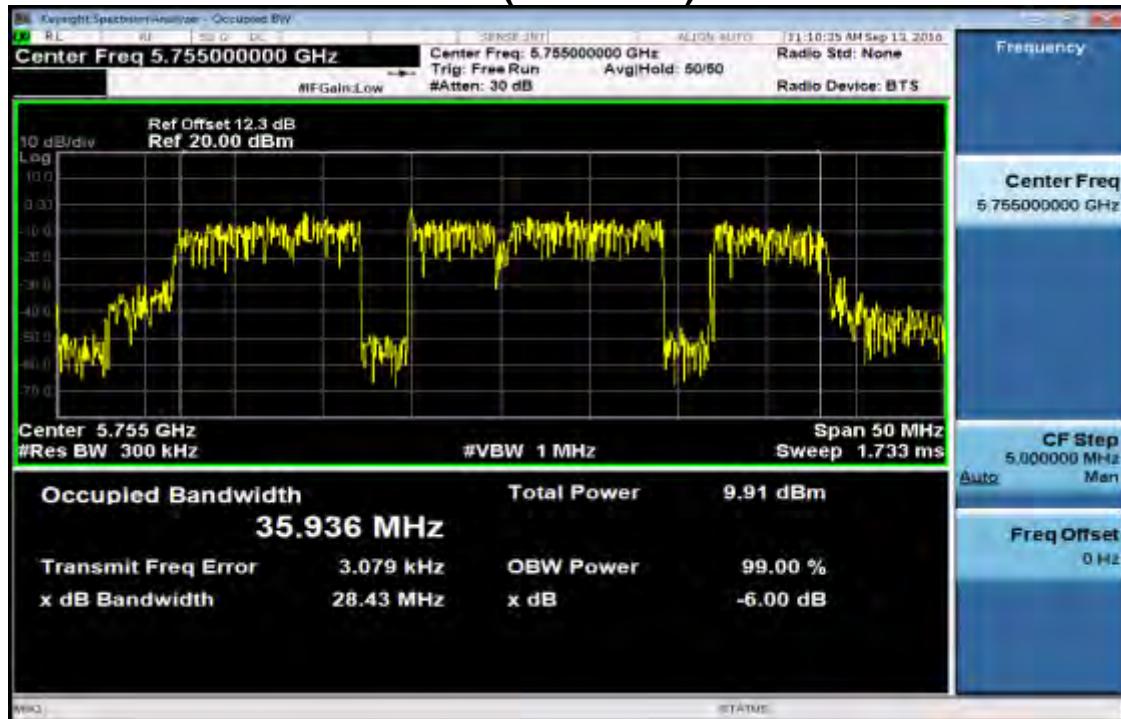
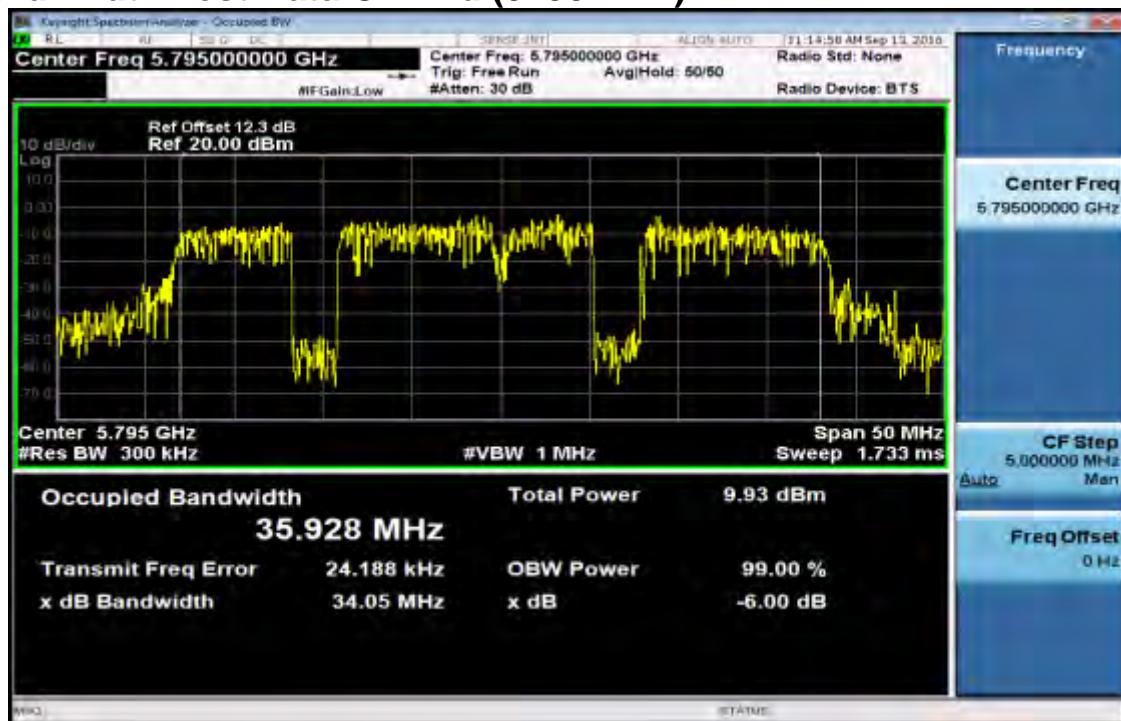
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**802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)****6dB Band Width Test Data CH-Mid (5795 MHz)**

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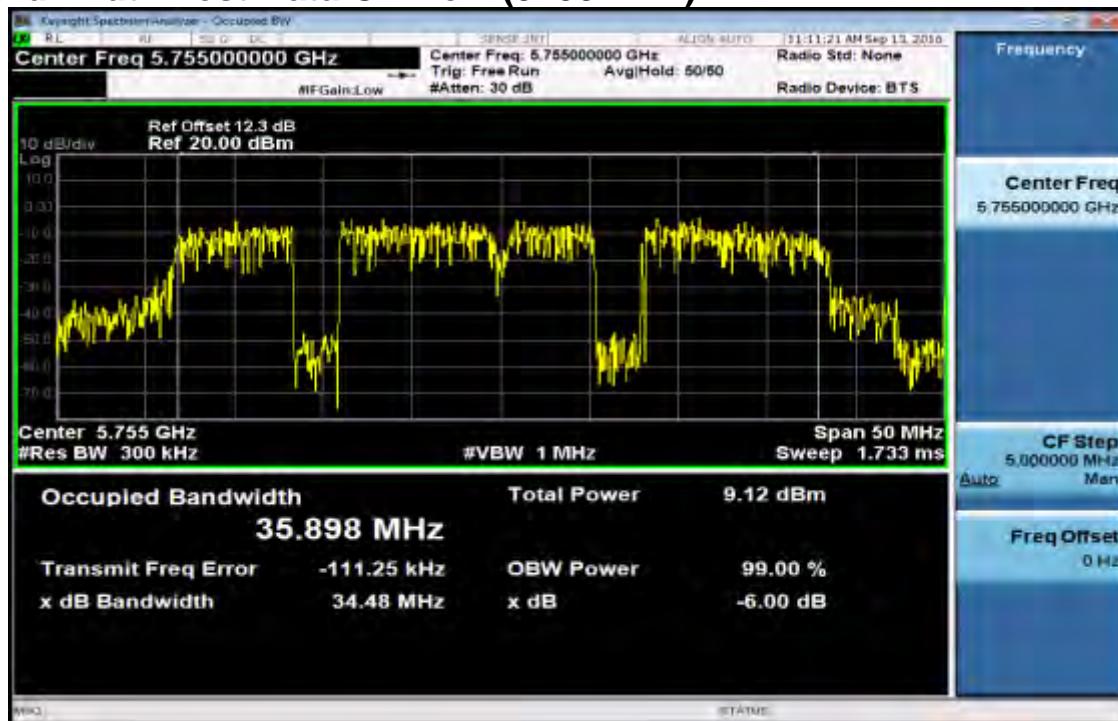
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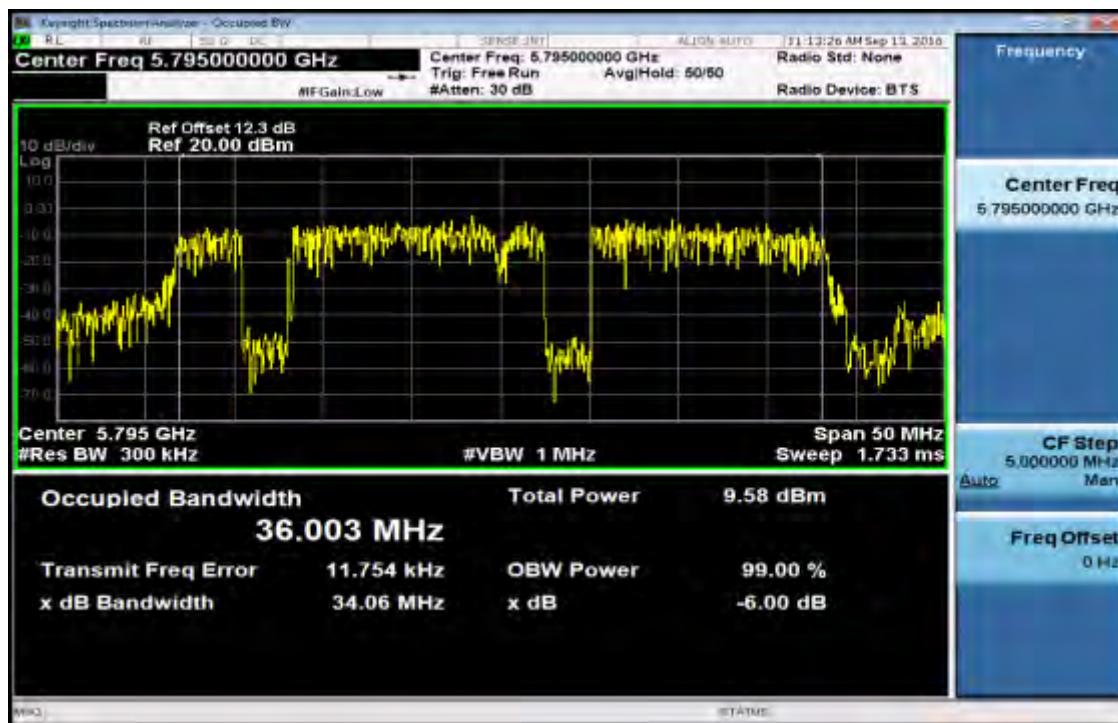
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802.11n_HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



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

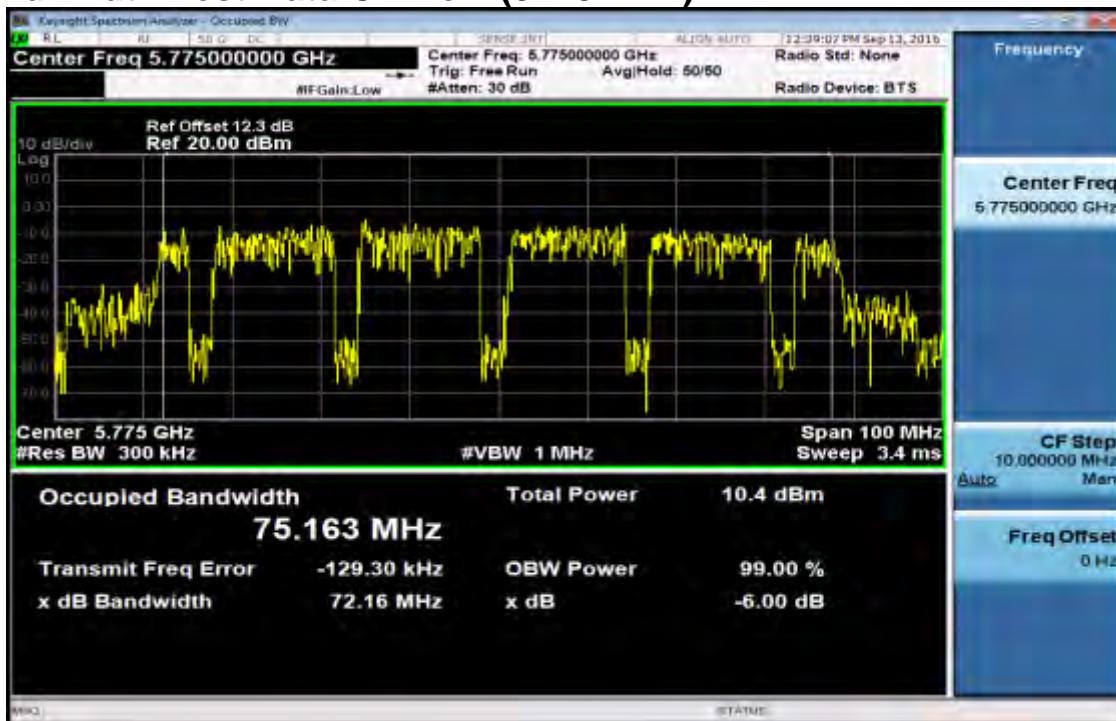


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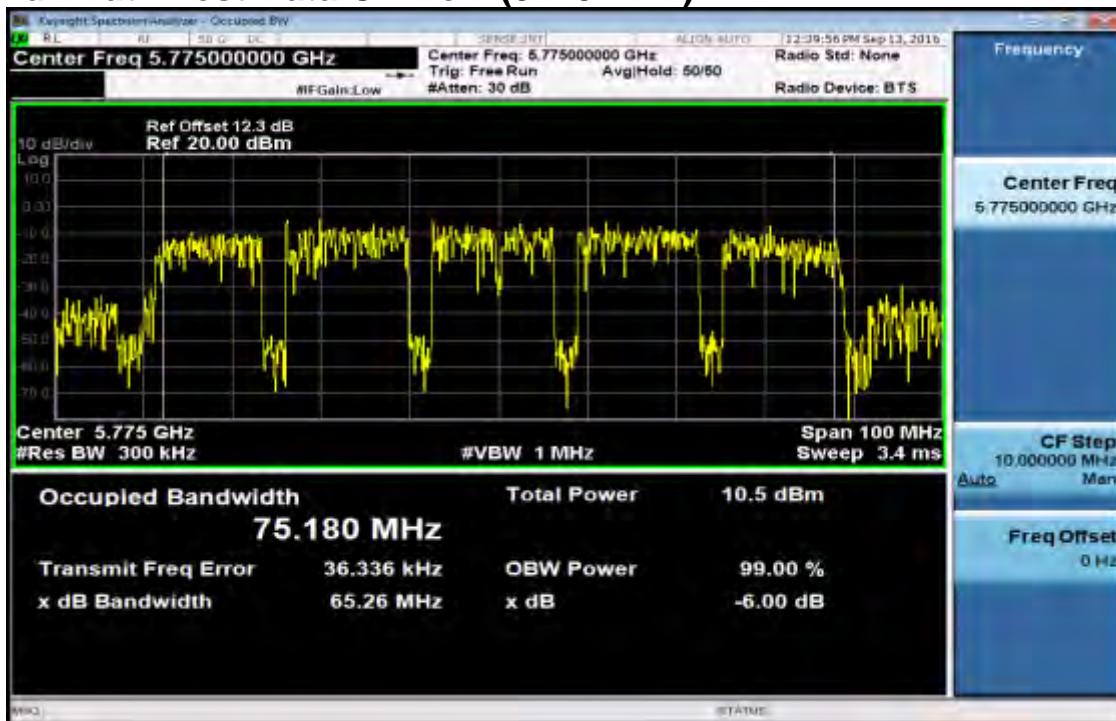
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux1) 6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	1 Watt(30dBm)
		Fixed point-to-point Acess Ponit	1 Watt(30dBm)
	✓	clinet device	250mW(23.98dBm)
U-NII-2A	✓		250mW(23.98dBm) or 11dBm+10 log B
U-NII-2C	✓		250mW(23.98dBm) or 11dBm+10 log B
U-NII-3	✓		1 Watt(30dBm)

IC

OPERZTION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$ EIRP shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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Note: 5.15-5.25G

Antenna1 Gain: 0.39 dBi
Antenna2 Gain: -2.63 dBi
Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.4 dBi

Limit: 23.98dBm

Note: 5.25-5.35G

Antenna1 Gain: 0.39 dBi
Antenna2 Gain: -1.40 dBi
Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.4 dBi

Limit: 23.98dBm

Note: 5.47-5.725G

Antenna1 Gain: 0.37 dBi
Antenna2 Gain: -0.45 dBi
Number Antenna: 2 pcs

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.38 dBi

Limit: 23.968dBm

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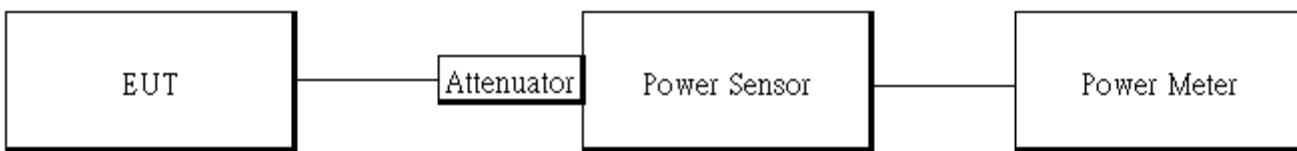
9.2 Measurement Procedure

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.
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.

9.3 Measurement Equipment Used

SGS Conducted Room					
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	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	13.05	12.53	15.81	38.090	23.98	PASS
44	5220	MCS8	13.01	12.71	15.87	38.662	23.98	PASS
48	5240	MCS8	12.92	12.86	15.90	38.908	23.98	PASS
52	5260	MCS8	13.24	12.58	15.93	39.200	23.98 or $11+10\log(B) = 23.61$	PASS
60	5300	MCS8	13.19	12.76	15.99	39.725	23.98 or $11+10\log(B) = 23.65$	PASS
64	5320	MCS8	13.03	12.61	15.84	38.330	23.98 or $11+10\log(B) = 23.57$	PASS
100	5500	MCS8	12.46	11.47	15.00	31.648	23.98 or $11+10\log(B) = 23.62$	PASS
116	5580	MCS8	12.75	12.64	15.71	37.202	23.98 or $11+10\log(B) = 23.73$	PASS
140	5700	MCS8	11.07	10.38	13.75	23.708	23.98 or $11+10\log(B) = 23.58$	PASS
149	5745	MCS8	13.16	12.63	15.91	39.025	30	PASS
157	5785	MCS8	13.31	12.64	16.00	39.794	30	PASS
165	5825	MCS8	13	12.65	15.84	38.360	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	13.12	12.81	15.98	39.610	23.98	PASS
44	5220	MCS8	12.94	12.81	15.89	38.777	23.98	PASS
48	5240	MCS8	12.92	12.77	15.86	38.512	23.98	PASS
52	5260	MCS8	13.01	12.73	15.88	38.749	23.98 or $11+10\log(B) = 23.83$	PASS
60	5300	MCS8	12.98	12.69	15.85	38.439	23.98 or $11+10\log(B) = 23.78$	PASS
64	5320	MCS8	12.98	12.89	15.95	39.315	23.98 or $11+10\log(B) = 23.75$	PASS
100	5500	MCS8	11.44	11.04	14.25	26.637	23.98 or $11+10\log(B) = 23.74$	PASS
116	5580	MCS8	13.11	12.82	15.98	39.607	23.98 or $11+10\log(B) = 23.79$	PASS
140	5700	MCS8	11.13	10.32	13.75	23.736	23.98 or $11+10\log(B) = 23.75$	PASS
149	5745	MCS8	12.84	12.56	15.71	37.261	30	PASS
157	5785	MCS8	13.05	12.63	15.86	38.507	30	PASS
165	5825	MCS8	12.79	12.64	15.73	37.376	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	9.57	9.27	12.43	17.510	23.98	PASS
46	5230	MCS8	12.71	12.23	15.49	35.375	23.98	PASS
54	5270	MCS8	12.55	12.3	15.44	34.971	23.98 or 11+10log(B) = 26.80	PASS
62	5310	MCS8	12.41	12	15.22	33.267	23.98 or 11+10log(B) = 26.80	PASS
102	5510	MCS8	9.22	9.15	12.20	16.578	23.98 or 11+10log(B) = 26.80	PASS
110	5550	MCS8	12.5	12.37	15.45	35.041	23.98 or 11+10log(B) = 26.78	PASS
134	5670	MCS8	12.44	12.22	15.34	34.211	23.98 or 11+10log(B) = 26.80	PASS
151	5755	MCS8	12.91	12.52	15.73	37.408	30	PASS
159	5795	MCS8	13.02	12.48	15.77	37.746	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	12.78	12.49	15.65	36.709	23.98	PASS
44	5220	MCS8	12.59	12.46	15.54	35.775	23.98	PASS
48	5240	MCS8	12.61	12.4	15.52	35.617	23.98	PASS
52	5260	MCS8	12.69	12.36	15.54	35.797	23.98 or 11+10log(B) = 23.83	PASS
60	5300	MCS8	12.62	12.37	15.51	35.539	23.98 or 11+10log(B) = 23.78	PASS
64	5320	MCS8	12.65	12.56	15.62	36.438	23.98 or 11+10log(B) = 23.75	PASS
100	5500	MCS8	11.31	10.94	14.14	25.937	23.98 or 11+10log(B) = 23.74	PASS
116	5580	MCS8	12.77	12.5	15.65	36.706	23.98 or 11+10log(B) = 23.79	PASS
140	5700	MCS8	11.06	10.2	13.66	23.236	23.98 or 11+10log(B) = 23.75	PASS
149	5745	MCS8	12.65	12.38	15.53	35.706	30	PASS
157	5785	MCS8	12.68	12.3	15.50	35.518	30	PASS
165	5825	MCS8	12.58	12.41	15.51	35.531	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	9.38	9.07	12.24	16.742	23.98	PASS
46	5230	MCS8	12.55	12.05	15.32	34.021	23.98	PASS
54	5270	MCS8	12.34	12.09	15.23	33.320	23.98 or 11+10log(B) = 26.80	PASS
62	5310	MCS8	12.22	11.84	15.04	31.948	23.98 or 11+10log(B) = 26.80	PASS
102	5510	MCS8	9.01	8.96	12.00	15.832	23.98 or 11+10log(B) = 26.80	PASS
110	5550	MCS8	12.05	11.98	15.03	31.809	23.98 or 11+10log(B) = 26.78	PASS
134	5670	MCS8	12.25	12.03	15.15	32.747	23.98 or 11+10log(B) = 26.80	PASS
151	5755	MCS8	12.72	12.33	15.54	35.807	30	PASS
159	5795	MCS8	12.8	12.29	15.56	35.998	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	8.42	8.25	11.35	13.634	23.98	PASS
58	5290	MCS8	10.06	9.73	12.91	19.536	23.98 or 11+10log(B) = 29.91	PASS
106	5530	MCS8	10.38	9.5	12.97	19.827	23.98 or 11+10log(B) = 29.90	PASS
122	5610	MCS8	12.51	12.36	15.45	35.042	23.98 or 11+10log(B) = 30.29	PASS
155	5775	MCS8	13.16	12.73	15.96	39.451	30	PASS

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Conducted output power (IC)

802.11a_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
52	5260	13.2	12.6	15.93	39.200	23.98	or $11+10\log(B) = 22.80$	PASS
60	5300	13.2	12.8	15.99	39.725	23.98	or $11+10\log(B) = 22.69$	PASS
64	5320	13	12.6	15.84	38.330	23.98	or $11+10\log(B) = 22.53$	PASS
100	5500	12.5	11.5	15.00	31.648	23.98	or $11+10\log(B) = 22.76$	PASS
116	5580	12.8	12.6	15.71	37.202	23.98	or $11+10\log(B) = 22.53$	PASS
140	5700	11.1	10.4	13.75	23.708	23.98	or $11+10\log(B) = 22.50$	PASS
149	5745	13.2	12.6	15.91	39.025		30	PASS
157	5785	13.3	12.6	16.00	39.794		30	PASS
165	5825	13	12.7	15.84	38.360		30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
52	5260	13	12.7	15.88	38.749	23.98	or $11+10\log(B) = 23.22$	PASS
60	5300	13	12.7	15.85	38.439	23.98	or $11+10\log(B) = 22.54$	PASS
64	5320	13	12.9	15.95	39.315	23.98	or $11+10\log(B) = 22.54$	PASS
100	5500	11.4	11	14.25	26.637	23.98	or $11+10\log(B) = 23.13$	PASS
116	5580	13.1	12.8	15.98	39.607	23.98	or $11+10\log(B) = 22.13$	PASS
140	5700	11.1	10.3	13.75	23.736	23.98	or $11+10\log(B) = 23.12$	PASS
149	5745	12.8	12.6	15.71	37.261		30	PASS
157	5785	13.1	12.6	15.86	38.507		30	PASS
165	5825	12.8	12.6	15.73	37.376		30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
54	5270	12.6	12.3	15.44	34.971	23.98	or $11+10\log(B) = 25.77$	PASS
62	5310	12.4	12	15.22	33.267	23.98	or $11+10\log(B) = 26.26$	PASS
102	5510	9.22	9.15	12.20	16.578	23.98	or $11+10\log(B) = 26.29$	PASS
110	5550	12.5	12.4	15.45	35.041	23.98	or $11+10\log(B) = 26.33$	PASS
134	5670	12.4	12.2	15.34	34.211	23.98	or $11+10\log(B) = 26.36$	PASS
151	5755	12.9	12.5	15.73	37.408		30	PASS
159	5795	13	12.5	15.77	37.746		30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
52	5260	12.7	12.4	15.54	35.797	23.98	or $11+10\log(B) = 23.22$	PASS
60	5300	12.6	12.4	15.51	35.539	23.98	or $11+10\log(B) = 22.54$	PASS
64	5320	12.7	12.6	15.62	36.438	23.98	or $11+10\log(B) = 22.54$	PASS
100	5500	11.3	10.9	14.14	25.937	23.98	or $11+10\log(B) = 23.13$	PASS
116	5580	12.8	12.5	15.65	36.706	23.98	or $11+10\log(B) = 22.13$	PASS
140	5700	11.1	10.2	13.66	23.236	23.98	or $11+10\log(B) = 23.12$	PASS
149	5745	12.7	12.4	15.53	35.706		30	PASS
157	5785	12.7	12.3	15.50	35.518		30	PASS
165	5825	12.6	12.4	15.51	35.531		30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
54	5270	12.3	12.1	15.23	33.320	23.98	or $11+10\log(B) = 25.77$	PASS
62	5310	12.2	11.8	15.04	31.948	23.98	or $11+10\log(B) = 26.26$	PASS
102	5510	9.01	8.96	12.00	15.832	23.98	or $11+10\log(B) = 26.29$	PASS
110	5550	12.1	12	15.03	31.809	23.98	or $11+10\log(B) = 26.33$	PASS
134	5670	12.3	12	15.15	32.747	23.98	or $11+10\log(B) = 26.36$	PASS
151	5755	12.7	12.3	15.54	35.807		30	PASS
159	5795	12.8	12.3	15.56	35.998		30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)		RESULT
		CH 0	CH 1					
58	5290	10.1	9.73	12.91	19.536	23.98	or $11+10\log(B) = 29.76$	PASS
106	5530	10.4	9.5	12.97	19.827	23.98	or $11+10\log(B) = 29.75$	PASS
155	5775	13.2	12.7	15.96	39.451		30	PASS

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EIRP

802.11a_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.81	3.400	19.21	83.331	23.01 or $10+10\log(B)=$ 22.14	PASS
44	5220	15.87	3.400	19.27	84.584	23.01 or $10+10\log(B)=$ 22.13	PASS
48	5240	15.90	3.400	19.30	85.122	23.01 or $10+10\log(B)=$ 22.12	PASS
52	5260	15.93	3.400	19.33	85.760	30 or $17+10\log(B)=$ 29.15	PASS
60	5300	15.99	3.400	19.39	86.908	30 or $17+10\log(B)=$ 29.11	PASS
64	5320	15.84	3.400	19.24	83.857	30 or $17+10\log(B)=$ 29.14	PASS
100	5500	15.00	3.380	18.38	68.920	30 or $17+10\log(B)=$ 29.14	PASS
116	5580	15.71	3.380	19.09	81.015	30 or $17+10\log(B)=$ 29.10	PASS
140	5700	13.75	3.380	17.13	51.630	30 or $17+10\log(B)=$ 29.14	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.98	3.400	19.38	86.658	23.01 or $10+10\log(B)=$ 22.42	PASS
44	5220	15.89	3.400	19.29	84.836	23.01 or $10+10\log(B)=$ 22.43	PASS
48	5240	15.86	3.400	19.26	84.255	23.01 or $10+10\log(B)=$ 22.45	PASS
52	5260	15.88	3.400	19.28	84.773	30 or $17+10\log(B)=$ 29.42	PASS
60	5300	15.85	3.400	19.25	84.095	30 or $17+10\log(B)=$ 29.43	PASS
64	5320	15.95	3.400	19.35	86.011	30 or $17+10\log(B)=$ 29.41	PASS
100	5500	14.25	3.380	17.63	58.008	30 or $17+10\log(B)=$ 29.41	PASS
116	5580	15.98	3.380	19.36	86.253	30 or $17+10\log(B)=$ 29.43	PASS
140	5700	13.75	3.380	17.13	51.691	30 or $17+10\log(B)=$ 29.44	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.43	3.400	15.83	38.308	23.01 or $10+10\log(B)=$ 25.56	PASS
46	5230	15.49	3.400	18.89	77.391	23.01 or $10+10\log(B)=$ 25.55	PASS
54	5270	15.44	3.400	18.84	76.509	30 or $17+10\log(B)=$ 32.56	PASS
62	5310	15.22	3.400	18.62	72.780	30 or $17+10\log(B)=$ 32.55	PASS
102	5510	12.20	3.380	15.58	36.103	30 or $17+10\log(B)=$ 32.55	PASS
110	5550	15.45	3.380	18.83	76.310	30 or $17+10\log(B)=$ 32.54	PASS
134	5670	15.34	3.380	18.72	74.502	30 or $17+10\log(B)=$ 32.51	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
36	5180	15.65	3.400	19.05	80.310	23.01	or $10+10\log(B)=$	22.42
44	5220	15.54	3.400	18.94	78.267	23.01	or $10+10\log(B)=$	22.43
48	5240	15.52	3.400	18.92	77.921	23.01	or $10+10\log(B)=$	22.45
52	5260	15.54	3.400	18.94	78.315	30	or $17+10\log(B)=$	29.42
60	5300	15.51	3.400	18.91	77.752	30	or $17+10\log(B)=$	29.43
64	5320	15.62	3.400	19.02	79.717	30	or $17+10\log(B)=$	29.41
100	5500	14.14	3.380	17.52	56.484	30	or $17+10\log(B)=$	29.41
116	5580	15.65	3.380	19.03	79.936	30	or $17+10\log(B)=$	29.43
140	5700	13.66	3.380	17.04	50.601	30	or $17+10\log(B)=$	29.44

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)		RESULT
38	5190	12.24	3.400	15.64	36.627	23.01	or $10+10\log(B)=$	25.56
46	5230	15.32	3.400	18.72	74.430	23.01	or $10+10\log(B)=$	25.55
54	5270	15.23	3.400	18.63	72.897	30	or $17+10\log(B)=$	32.56
62	5310	15.04	3.400	18.44	69.895	30	or $17+10\log(B)=$	32.55
102	5510	12.00	3.380	15.38	34.478	30	or $17+10\log(B)=$	32.55
110	5550	15.03	3.380	18.41	69.270	30	or $17+10\log(B)=$	32.54
134	5670	15.15	3.380	18.53	71.313	30	or $17+10\log(B)=$	32.51

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)		REQUIRED LIMIT (dBm)		RESULT
42	5210	11.35	3.400	14.75	29.827	23.01	or $10+10\log(B)=$	28.74
58	5290	12.91	3.400	16.31	42.741	30	or $17+10\log(B)=$	35.76
106	5530	12.97	3.380	16.35	43.177	30	or $17+10\log(B)=$	35.75

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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