

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

	OF		
Product Name:	Tablet Computer		
Brand Name:	FUJITSU		
Model No.:	R727		
Model Difference:	N/A		
FCC ID:	EJE-WB0102		
IC:	337J-WB0102		
Report No.:	E2/2016/A0074		
Issue Date:	Mar. 15, 2017		
FCC Rule Part:	§15.407		
IC Rule Part	RSS-247 issue 2 Feb. 2017		
Prepared for:	FUJITSU LIMITED 4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588, Japan		
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333		
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revision section of the document.

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VERIFICATION OF COMPLIANCE

Applicant:	FUJITSU LIMITED 4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588, Japan
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R727
Model Difference:	N/A
FCC ID:	EJE WB0102
IC:	337J-WB0102
File Number:	E2/2016/A0074
Date of test:	Nov. 01, 2016 ~ Nov. 14, 2016
Date of EUT Received:	Nov. 01, 2016

We hereby certify that:

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

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

Test By:	Jerry	Ľu	Date:	Mar. 15, 2017	
	Jerry Lu / Sr. E	ngineer			
Prepared By:	Tiffany	Kao	Date:	Mar. 15, 2017	
Approved By:	Tiffany Kao / Jim Chang / Asst	h ang	Date:	Mar. 15, 2017	_

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/A0074	Rev.00	Initial creation of document	Nov. 17, 2016
E2/2016/A0074	Rev.01	Add EUT components table	Fed. 09, 2017
E2/2016/A0074	Rev.02	RSS-247 updated to issue 2	Mar. 09, 2017
E2/2016/A0074	Rev.03	Updated battery information	Mar. 15, 2017

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GENERAL INFORMATION 1.

1.1 Product Description

General:

R				
Product Name:	Tablet Computer			
Brand Name:	FUJITSU			
Model No.:	R727			
Model Difference:	N/A			
BT / WLAN Module:		Model No.: 8265D2W, Supplier: Intel Mobile Communications France S.A.S		
NFC Module:	Model No.: RC-S650/IA, Supplier: Sony Corporation			
Product SW/HW version:	10.0.14393 Build 14393 / AX1			
Radio SW/HW version:	N/A / N/A			
Test SW Version:	N/A			
RF power setting in TEST SW:	N/A			
	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter			
Power Supply:	Battery:	Model No.: FPB0328; Supplier: Getac		
	Adapter:	Model No.: ADP-65MD A, Supplier: Delta		

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology	
	5150~5250	4	13.47 dBm (Avg.) / 21.63 dBm (EIRP)		
11a	5250~5350	4	13.36 dBm / 25.35 dBm (EIRP)	OFDM	
i i a	5470~5725	12	13.43 dBm / 13.96 dBm (EIRP)		
	5725-5850	5	13.48 dBm		
	HT20 / VHT20 5150~5250	4	HT: 16.41 dBm (Avg.) / 19.30 dBm (EIRP) (Worst Case)		
110 /	HT20 / VHT20 5250~5350	4	HT: 16.44 dBm / 20.13 dBm (EIRP) (Worst Case)		
11n / ac_20M	HT20 / VHT20 5470~5725	12	HT: 16.47 dBm / 20.01 dBm (EIRP) (Worst Case)	OFDM	
	VHT20 5720~5720	1	HT:15.02 dBm / 20.05 dBm (EIRP)		
	HT20 / VHT20 5725-5850	5	HT: 16.44 dBm (Worst Case)	1	
	HT40 / VHT40 5150~5250	2	HT: 16.49 dBm (Avg.) / 19.38 dBm (EIRP) (Worst Case)		
110 /	HT40 / VHT40 5250~5350	2	HT: 16.46 dBm / 20.15 dBm (EIRP) (Worst Case)		
11n / ac_40M	HT40 / VHT40 5470~5725	6	HT: 16.47 dBm / 20.01 dBm (EIRP) (Worst Case)	OFDM	
	VHT40 5710~5710	1	HT: 15.63dBm / 19.17 dBm (EIRP)		
	HT40 / VHT40 5725-5850	2	HT: 16.48 dBm (Worst Case)		

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	VHT80 5150~5250	1	16.48 dBm (Avg.) / 19.37 dBm (EIRP)	
11ac 80M	VHT80 5250~5350	1	12.96 dBm / 16.65 dBm (EIRP)	OFDM
	VHT80 5470~5725	3	16.47 dBm / 18.02 dBm (EIRP)	
	VHT80 5725-5850	1	16.44dBm	
Antenna I	PIFA Antenna Main: Partl No.: WA-P-LB-03-059, Supplier: INPAQ 5GHz Gain: -0.12dBi (5150MHz-5250MHz) 5GHz Gain: 0.68dBi (5250MHz-5350MHz) 5GHz Gain: 0.53dBi (5470MHz-5725MHz) 5GHz Gain: 2.02dBi (5725MHz-5850MHz) Aux: Part No.: WA-P-LB-02-301, Supplier: INPAQ 5GHz Gain: -0.97dBi (5150MHz-5250MHz) 5GHz Gain: -0.63dBi (5250MHz-5350MHz) 5GHz Gain: -0.63dBi (5250MHz-5350MHz) 5GHz Gain: -0.63dBi (5250MHz-5725MHz) 5GHz Gain: -0.63dBi (5250MHz-5725MHz) 5GHz Gain: -0.63dBi (5250MHz-5725MHz) 5GHz Gain: -0.16dBi (5725MHz-5850MHz)			
			QAM, QPSK, BPSK for OFDM or OFDM in 802.11ac only	
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps		

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*Descriptions of EUT Components

Part Name	Description	Supplier	Supplier P/N
CPU	Kaby Lake H-0 2c BGA 2.8GHz	Intol	F 19007700720000
	15W (I7 VPRO), i7-7600U	Intel	FJ8067702739628
Memory	LPDRAM LPDDR3-1866 8GB, 1.2V/1.8V	Samsung	K4E6E304EB-EGCF
LCD Panel	12.5"FHD 400cd/m2	Samsung	LTN125HL04-702
Touch Panel	Touch Panel	TPK	TBD54
SSD	512GB, M.2, SATAIII, FDE	Samsung	MZNTN512HDJH-00007
CCD	Front Camera, 2M Pixels	Liteon	5SF206T2
CCD	Rear Camera, 5M Pixels	Chicony	CJAF52120004900LH
Keyboard unit	for FPCA (US)	Inventec	29-2AZ01F311
Active Pen	Active Pen	Waltop	ACS-03
Docking Station	Docking Station Unit	Fujitsu	FPCPR336

1.2 Product Feature of Equipment Under Test

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

Product Feature		
Product Name:	Tablet Computer	
Brand Name:	FUJITSU	
Model No.:	R727	
Model Difference:	N/A	
FCC ID:	EJE WB0102	
IC:	337J-WB0102	
Wi-Fi Specification	802.11a/b/g/n/ac	
Bluetooth Version	V4.2 dual mode	

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

RSS-247 issue 2 Feb. 2017

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note:

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

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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SYSTEM TEST CONFIGURATION 2.

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

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2.4 Measurement Results Explanation Example For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 2.13dB, and 10dB attenuator (SISO) and cable loss 5.13dB, and 10dB attenuator (MIMO).

SISO mode offset

= RF cable loss (dB)+ attenuation factor(dB)=12.13(dB)

MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(NANT) dB = 15.13(dB)

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2.5 Configuration of Tested System

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

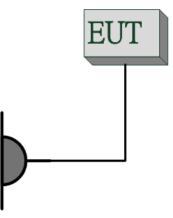


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

Power Supply O	TIME
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	EUT

Table 2-1 Equipment Used in Tested System

lte m	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	Un-Shielded

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	
42	5210 MHz	

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY	
58	5290 MHz	

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Operated band in 5470 MHz ~5725 MHz:

12 channels are provided for 802.11a, 802.11n HT20, 802.11ac VHT20

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

6 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

3 channels are provided for 802.11ac VHT80

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

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n HT20, 802.11ac VHT20

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

2 channels are provided for 802.11n HT40, 802.11ac VHT40

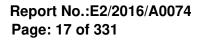
- 1-	CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
	CHAINNEL	FREQUENCT	CHAININEL	FREQUENCT
	151	5755 MHz	159	5795 MHz

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 pro grammed.

- 3. Investigation has been done on all the possible configurations for searching the worst case.
- 4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11n yields the highest reading that generates the highest emission. Therefore, 802.11n as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

						1		
	RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN		
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO		
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN		
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO		
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN		
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO		
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN		
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO		
RADIATED EMISSION TEST (ABOVE 1 GHz)								
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11a	E100 E040	00 to 10	00 44 49	OFDM	6	MAIN		
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO		
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO		
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO		
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN		
802.11n_HT20	5260~5520	52 10 64	52,00,04	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		

RADIATED EMISSION TEST:

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a		100 to 144	100,116,140,	OFDM	6	MAIN
802.11n_HT20	5500~5720	100 (0 144	144	OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134, 142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a		140 to 105	140 157 105	OFDM	6	MAIN
802.11n_HT20	5745~5825	149 to 165	149,157,165	OFDM	MCS8	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

Note:

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

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

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

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MEASUREMENT UNCERTAINTY 5.

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:

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

	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
Measurement uncertainty	167MHz -500MHz: +/- 3.44dB
(Polarization : Horizontal)	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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CONDUCTED EMISSION TEST 6.

6.1. Standard Applicable

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

F	Limits						
Frequency range	dB(uv)					
MHz	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	Note						
1. The lower limit shall apply at the transition frequencies							
2. The limit decreases linearly wit	h 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	MFR	MFR MODEL SERIA		LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
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

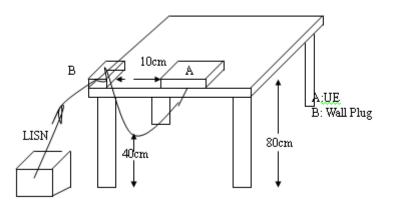
- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- 3. The LISN was connected with 120Vac/60Hz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

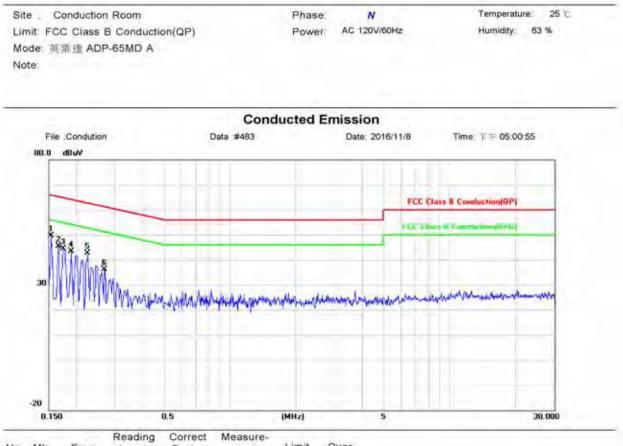
Operation Mode: Operation mode Temperature: 20

Test Date: Nov. 08, 2016

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No. Mk.	Freq.	Level	Factor	ment	Limit.	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1540	30.01	19.73	49.74	65.78	-16.04	peak	
2	0.1660	25.75	19.73	45.48	65.16	-19.68	peak	
3	0.1740	24.72	19.73	44.45	64.77	-20.32	peak	
4	0.1900	23.61	19.72	43.33	64.04	-20.71	peak	
5	0.2260	22.97	19.74	42.71	62.60	-19.89	peak	
6	0.2700	16.29	19.77	36.06	61.12	-25.06	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:

Duty Cycle = Ton / (Ton+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	98.60	0.06
802.11n_20	84.30	0.74
802.11n_40	83.81	0.77
802.11ac_80	82.69	0.83

Duty Cycle Factor: $10 * \log(1/0.986) = 0.06$ Duty Cycle Factor: $10 * \log(1/0.843) = 0.74$ Duty Cycle Factor: $10 * \log(1/0.8381) = 0.77$ Duty Cycle Factor: $10 * \log(1/0.8269) = 0.83$

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11n HT20



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802.11n HT 40

6.00 Gener 5.190000000 GHz	#Atten: 30 dB ΔMkr3 587.3 μs 0.01 dB
Collection Ref 30.00 dBm Collection Collection	ΔΜΚΓ3 587.3 μs 0.01 dB
Hole multilation Harden Har	Center
enter 5.190000000 GHz es BW 8 MHz #VB R MODE TRC SCL X 492.2 μs (Δ 429.3 μs Δ4 1 t (Δ) 687.3 μs (Δ 5 F 1 t 429.3 μs	territer fort of the standard and the standard the standa
enter 5.190000000 GHz = BW 8 MHz #VB R MODE TRC SCL × Δ2 1 t (Δ) 492.2 μs (Δ F 1 t 429.3 μs Δ4 1 t (Δ) 587.3 μs (Δ F 1 t 429.3 μs	Start 6 5.190000000
s BW 8 MHz #VB ² Δ2 1 t (Δ) 492.2 μs (Δ) F 1 t 429.3 μs (Δ) 687.3 μs (Δ) C4 1 t (Δ) 687.3 μs (Δ) 587.3 μs (Δ)	Stop 1 5,190000000
Δ2 1 t (Δ) 492.2 µs (Δ) F 1 t 429.3 µs Δ4 1 t (Δ) 687.3 µs (Δ) F 1 t 429.3 µs (Δ)	W 8.0 MHz Sweep 1.533 ms (1001 pts)
	8.26 dBm

802.11 ac VHT 80



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C. The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

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

Sweep=auto

- b. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. Repeat above procedures until all test default channel measured were complete.

Note: For the overlapped channels between U-NII-2C and U-NII-3 bands, and according to FCC KDB 644545 D03, the boundary frequency between the bands is used as one edge for defining the portion of the 26dB BW that falls within a particular U-NII band. This rule is only applicable for the 26dB BW and for those channels marked as overlapped.

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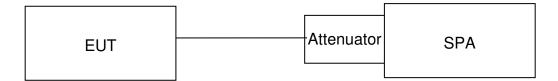
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Measurement Equipment Used 8.3

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
ТҮРЕ		NUMBER	NUMBER	CAL.	
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	00100A1F1A1 95C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	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	20.99	13.220
5220	20.00	13.010
5240	20.05	13.021
5260	19.46	12.891
5300	20.09	13.030
5320	19.65	12.934
5500	20.05	13.021
5580	19.52	12.905
5700	20.05	13.021

802.11n HT20 Main

802.11n HT20 Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.83	13.187
5220	20.71	13.162
5240	21.88	13.400
5260	20.66	13.151
5300	20.71	13.162
5320	21.23	13.269
5500	20.70	13.160
5580	20.98	13.218
5700	20.70	13.160
5720	21.11	13.245

02.1111_11120_Aux1			
Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)	
5180	19.90	12.989	
5220	20.90	13.201	
5240	21.89	13.402	
5260	21.89	13.402	
5300	20.71	13.162	
5320	21.62	13.349	
5500	21.05	13.233	
5580	19.85	12.978	
5700	20.96	13.214	
5700	20.21	13.056	

802.11n HT20 Main

-	-				
Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)	Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	15.294	11.85	5720 (UNII-2C)	14.642	11.66
5720 (UNII-3)	5.815	7.65	5720 (UNII-3)	5.567	7.46

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802.11n HT20 Aux



Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	42.82	16.316
5230	42.26	16.259
5270	42.79	16.313
5310	42.30	16.263
5510	42.56	16.290
5550	42.48	16.282
5670	42.90	16.325
5710	40.78	16.104

802.11n	_HT40_Aux1	

26dB BW (MHz)	10 Log (B) (dB)
43.48	16.383
39.47	15.963
40.38	16.062
41.71	16.202
42.23	16.256
39.71	15.989
41.60	16.191
41.76	16.208
	BW (MHz) 43.48 39.47 40.38 41.71 42.23 39.71 41.60

802.11n HT40 Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	33.952	15.31
5710 (UNII-3)	6.827	8.34

802.11n HT40 Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	34.768	15.41
5710 (UNII-3)	6.991	8.45

802.11ac _VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	100.00	20.000
5290	79.51	19.004
5530	77.03	18.867
5610	79.79	19.019
5690	81.31	19.101

802.11 ac _VHT 80_Au x1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	77.08	18.869
5290	86.17	19.354
5530	79.26	18.991
5610	77.05	18.868
5690	79.84	19.022

802.11ac VHT80 Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	72.638	18.61
5690 (UNII-3)	8.671	9.38

802.11ac VHT80 Aux

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	71.234	18.53
5690 (UNII-3)	8.515	9.30

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99% Bandwidth

802.11a Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.437	12.158
5220	16.419	12.153
5240	16.539	12.185
5260	16.294	12.120
5300	16.362	12.138
5320	16.475	12.168
5500	16.345	12.134
5580	16.456	12.163
5700	16.307	12.124

802.11n_HT20_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.783	12.500
5220	17.757	12.494
5240	17.648	12.467
5260	17.612	12.458
5300	17.767	12.496
5320	17.764	12.495
5500	17.787	12.501
5580	17.668	12.472
5700	17.666	12.471
5720	15.910	12.017

802.11n_HT20_Aux1				
Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)		
5180	17.721	12.485		
5220	17.793	12.502		
5240	17.752	12.492		
5260	17.713	12.483		
5300	17.667	12.472		
5320	17.826	12.511		
5500	17.691	12.478		
5580	17.582	12.451		
5700	17.660	12.470		
5720	14.870	11.723		

802.11n HT20 Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)	ſ
5720 (UNII-2C)	12.901	11.11	
5720 (UNII-3)	4.905	6.91	

802.11n HT20 Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5720 (UNII-2C)	12.788	11.07
5720 (UNII-3)	4.862	6.87

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	802.11n	HT40	Main
--	---------	------	------

802.11n HT40 Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.168	15.583
5230	36.164	15.583
5270	36.256	15.594
5310	36.058	15.570
5510	36.140	15.580
5550	36.201	15.587
5670	36.139	15.580
5710	36.127	15.578

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.177	15.584
5230	36.083	15.573
5270	36.105	15.576
5310	36.198	15.587
5510	36.010	15.564
5550	36.200	15.587
5670	36.172	15.584
5710	36.046	15.569

802.11n HT40_Main

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	30.078	14.78
5710 (UNII-3)	6.048	7.82

802.11n HT40_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5710 (UNII-2C)	30.011	14.77
5710 (UNII-3)	6.034	7.81

802.11ac _VHT80_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.260	18.766
5290	75.011	18.751
5530	75.349	18.771
5610	75.447	18.776
5690	75.137	18.759

802.11 ac _VHT80_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.227	18.764
5290	75.052	18.754
5530	75.437	18.776
5610	75.233	18.764
5690	75.139	18.759

802.11ac VHT80_Main

802.11ac VHT80_Aux

Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)	Frequency (MHz)	99% Bandwidth (MHz)	10 Log (B) (dB)
5690 (UNII-2C)	67.123	18.27	5690 (UNII-2C)	67.125	18.27
5690 (UNII-3)	8.013	9.04	5690 (UNII-3)	8.013	9.04

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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	15.00	11.761
5785	14.44	11.596
5825	15.22	11.824

802.11n_HT20_Main

802.11n HT20 Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.84	11.411
5785	13.00	11.139
5825	15.37	11.867

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.31	12.125
5785	15.06	11.778
5825	15.74	11.970

802.11n_HT40_Main

Fre

802.11n_HT40_Aux1

requency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.12	15.456	5755	35.11	15.454
5795	35.11	15.454	5795	35.15	15.459

802.11ac VHT80 Main

802.11ac VHT80 Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	72.57	18.608	5775	54.30	17.348

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

802.11a Main

Frequency (MHz)	6d B BW (MHz)	10 Log (B) (dB)
5745	15.47	11.895
5785	15.38	11.870
5825	14.17	11.514

802.11n HT20 Main

Frequency (MHz)	6d B BW (MHz)	10 Log (B) (dB)
5745	15.94	12.025
5785	16.66	12.217
5825	11.26	10.515

802.11n HT20 Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.56	12.191
5785	15.42	11.881
5825	17.42	12.410

802.11n _HT40_Main

Frequency (MHz)	6d B BW (MHz)	10 Log (B) (dB)		
5755	36.17	15.583		
5795	35.73	15.530		

802.11n HT40 Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)	
5755	35.16	15.460	
5795	35.47	15.499	

802.11ac _VHT80_Main

Frequency (MHz)	6d B BW (MHz)	10 Log (B) (dB)
5775	69.63	18.428

802.11ac _VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	64.08	18.067

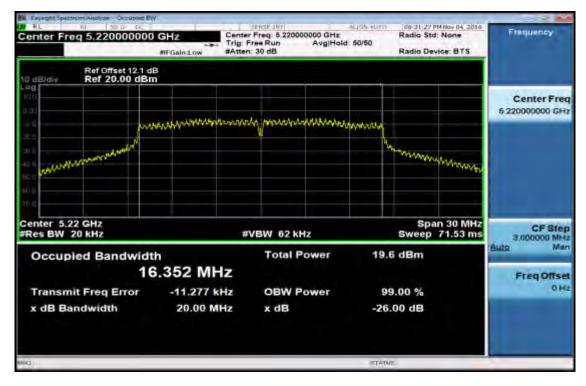
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802.11a, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180MHz)

Center Freq 5.18000000	GHZ MFGain:Low	Center Freq: 5.1800 Trig: Free Run #Atten: 30 dB	000000 GHz AvgiHold: 50/50	Radio St	d: None evice: BTS	Frequency
10 dB/div Ref 0ffset 12.1 d Ref 20.00 dBr				2		
100 100 100	manininin	ndersen juniana	and the second			Center Free 5.180000000 GH
219 90 910 510 910				human	mound	
Center 5.18 GHz #Res BW 20 kHz		#VBW 62 kHz		Span 30 MHz Sweep 71.53 ms		CF Step 3.000000 MHz Auto Man
Occupied Bandwidth 16.363 MH			Power	19.8 dBm		
Transmit Freq Error x dB Bandwidth	-11.617 kl 20.99 Mi			99.00 % 26.00 dB		OH
10)			5	TATME		

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



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

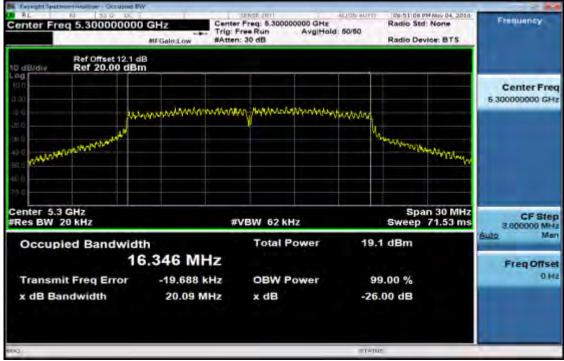
B. Depertury Analyzer - Occu	ipled Byy		and the second second					
Center Freq 5.240000	0000 GHz MFGain:Lo	Center Trig: F	Freq: 5.24000 Free Run 1: 30 dB	0000 GHz AvgiHold	1: 50/50	Radio St	PM Nov 04, 2016 d: None svice: BTS	Frequency
10 dE/div Ref Offset 1 Ref 20.00								
100 000	MANUMANAM	Acceleiels	In NonLined?	and hereing				Center Fre 5.240000000 GH
200 200 400	MANUMAN				i na	homen	an and the second state	
500 AMARCAN							All and a second second	
Center 5.24 GHz #Res BW 20 kHz		#	VBW 62 KH	łz.			an 30 MHz 71.53 ms	CF Step
Occupied Bandy	width 16.348	MHz	Total P	ower	19	.0 dBm		Auto Mar Freg Offse
		98 kHz 95 MHz	OBW Power x dB			99.00 % 6.00 dB		0 Hz
eo.					ΞTĂ	TME.		

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

RL W 04 2010 Center Freq: 5.280000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freg 5.260000000 GHz Radio Std: None MEGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5 260000000 GHz nonserver server of the server bear and a server and the server server and the server ser Merman Marine Marine www. LINK Center 5.26 GHz #Res BW 20 kHz Span 30 MHz Sweep 71.53 ms CF Step #VBW 62 kHz 3.000000 Auto Me Total Power 18 9 dBm Occupied Bandwidth 16.354 MHz Freq Offset 0 H **Transmit Freq Error** -20.379 kHz **OBW Power** 99.00 % x dB Bandwidth 19.46 MHz x dB -26.00 dB

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



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

RL RI 1990 00 Center Freq 5.320000000			5.320000000 GHz AvgiHol	ALION BUTT	Radio Ste	PH Nov 04, 2010 d: None vice: BTS	Frequency	
10 dB/div Ref 20.00 dB								
100	www.	vive/Advir NAd	Nervilatentile				Center Free 5 320000000 GH	
200 300 400 500 500	4444494 a 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4				- manuality	Manun		
Center 5.32 GHz #Res BW 20 kHz		#VBW	62 kHz			an 30 MHz 71.53 ms	CF Ster 3.00000 MH Auto Me	
Occupied Bandwid	th 6.353 MH		tal Power	19	.3 dBm		FreqOffse	
Transmit Freq Error -17.411 x dB Bandwidth 19.65 f			OBW Power x dB		99.00 % -26.00 dB		0.00	
E.				STAT	NF.			

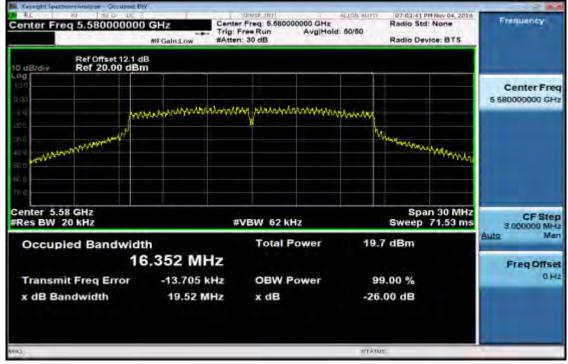
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802.11a, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500MHz)

ffset 12.1 dB 20.00 dBm	www.apationechizoke				- 1			
MW								
WWW	A REAL PROPERTY OF THE PARTY	ALCONDON.	inch	Aciatric.				Center Freq 5 50000000 GHz
all a		reservind	Parvivenu	were were and	ndrivenni	n		
America						mathingely	manner	
		#VB	W 62 kH	Hz				CF Step 3.000000 MH
Occupied Bandwidth 16.375 MHz		Iz	Total Power			.9 dBm		Auto Mar Freg Offse
			OBW Power x dB			99.00 % -26.00 dB		0.142
	andwidth 16 Error	Indwidth 16.375 MH Error -20.779 k	#VE Indwidth 16.375 MHz Error -20.779 kHz	#VBW 62 ki Indwidth Total P 16.375 MHz Error -20.779 kHz OBW P	#VBW 62 kHz Indwidth Total Power 16.375 MHz Error -20.779 kHz OBW Power	#VBW 62 kHz Indwidth Total Power 19 16.375 MHz Error -20.779 kHz OBW Power 9	spa #VBW 62 kHz Sweep andwidth Total Power 19.9 dBm 16.375 MHz Error -20.779 kHz OBW Power 99.00 %	Span 30 MHz #VBW 62 kHz Sweep 71.53 ms Indwidth Total Power 19.9 dBm 16.375 MHz Error -20.779 kHz OBW Power 99.00 %

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



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

RL Center Freq	5.700000	000 GH	ain:Low	Center Fr		AvgiHold	60/60	F	Radio Sto	Miller 04, 2018 1: None vice: BTS	Frequency	
O dB/div	Ref Offset 1 Ref 20.00											
100 0.01											Center Freq 5 70000000 GHz	
10 0. 20 0		Imm	hundrenen	streeter	hanna	human and	number .					
wwww	mentored	<i></i>						. Pared	Normany	Aurona		
10 0 70 0												
Center 5.7 G Res BW 20				#VE	W 62 KH	łz		5		an 30 MHz 71.53 ms	CF Step 3.000000 MHz	
Occupie	d Bandv				Total P	ower	18	8.8 d	IBm		Auto Man	
	16.355 MH Transmit Freq Error -18.621 k x dB Bandwidth 20.05 M		Hz	OBW Power		99.00 % -26.00 dB				Freq Offset 0 Hz		

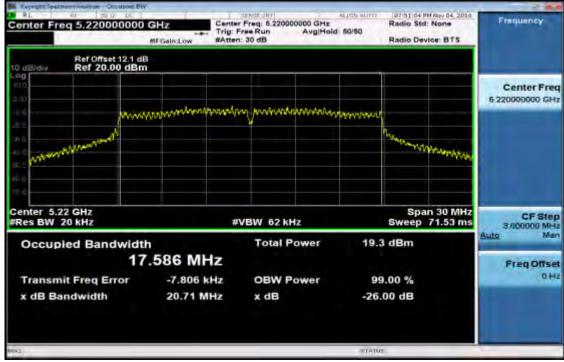
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802.11n HT20, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5180 MHz)

RL Radio Std: None W 04 2010 Center Freq: 5.18000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freg 5.180000000 GHz MFGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5.180000000 GHz warners warner bound of the particular the second and the second The Andrew NUMAN Center 5.18 GHz #Res BW 20 kHz Span 30 MHz Sweep 71.53 ms CF Step #VBW 62 kHz 3.000000 Auto Me Total Power 19.2 dBm Occupied Bandwidth 17.594 MHz Freq Offset 0 H Transmit Freq Error -1.025 kHz **OBW Power** 99.00 % x dB Bandwidth 20.83 MHz x dB -26.00 dB

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



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

Center Freq 5.24000000	0 GHz	Trig: Free	Sense deri Alton euro Center Freq: 5.240000000 GHz rrig: Free Run Avg Hold: 50/50 Atten: 30 dB			Radio Std: None Radio Device: BTS		Frequency
Ref Offset 12.1 c Ref 20.00 dB								
	wwwwww	ntanlada	RANADAGA	Antonia				Center Fred 5 240000000 GHz
20.0	Alfondation		100000		eymawyw,	1		
and with the anna the						"man Work	many	
60.0 70.0								
Center 5.24 GHz #Res BW 20 kHz		#VE	3W 62 kH	z			n 30 MHz 71.53 ms	CF Step 3.000000 MH
Occupied Bandwidth 17.581 I		Total Power			19.3 dBm			Auto Man
Transmit Freq Error -9.1 x dB Bandwidth 21.3				99.00 % -26.00 dB			0 Hz	

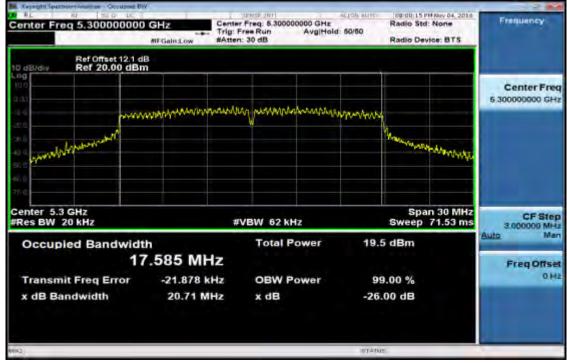
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802.11n HT20, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5260 MHz)

RL W 04, 2010 Center Freq: 5.26000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freq 5.260000000 GHz Radio Std: None MFGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5 260000000 GHz Marine winte Per markingher AWAR Center 5.26 GHz #Res BW 20 kHz Span 30 MHz Sweep 71.53 ms CF Step #VBW 62 kHz 3.000000 Auto Me Total Power 19.5 dBm Occupied Bandwidth 17.580 MHz Freq Offset 0 H Transmit Freq Error -1.926 kHz **OBW Power** 99.00 % x dB Bandwidth 20.66 MHz x dB -26.00 dB

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



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

BE Repergitt Spectremmenutyper - Occ		-					2 PM Nov 04, 2010		
Center Freq 5.32000	0000 GHz			0000 GHz AvgiHold	50/50	Radio Std: None Radio Device: BTS		Frequency	
10 dB/div Ref 20.00		-							
(0) (0)			ar and at a					Center Fre 5 32000000 GH	
-10 0 -21 0 -21 0	mennennin	manna	handhan	mm	\$MAY YUU	m			
100 400 500						- ANDA	mannahin		
-70-0									
Center 5.32 GHz #Res BW 20 kHz		#VE	SW 62 KH	z			an 30 MHz 71.53 ms	CF Ste 3.000000 MH	
Occupied Bandwidth 17.578		Hz	Total P	ower	19.6 dBm			Auto Mar	
Transmit Freq Error-6.78x dB Bandwidth21.23					99.00 % -26.00 dB			0 H	
					TATU				
(E40)					21414	P			

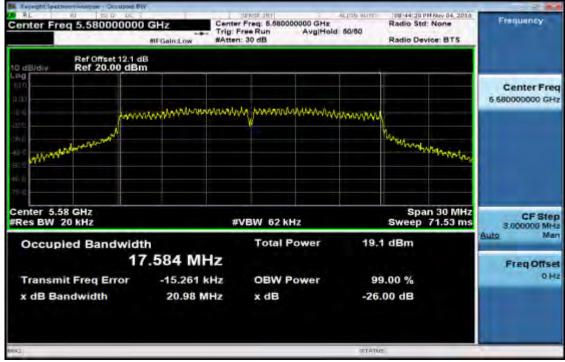
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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5500 MHz)

RL Radio Std: None Center Freq: 5.50000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freg 5.500000000 GHz MFGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5 500000000 GHz and an and the second prophetic and an and the second seco Prestation of 1.1 www. town Center 5.5 GHz #Res BW 20 kHz Span 30 MHz Sweep 71.53 ms CF Step #VBW 62 kHz 3.000000 Auto Me Total Power 19.4 dBm Occupied Bandwidth 17.581 MHz Freq Offset 0 H **Transmit Freq Error** -13.875 kHz **OBW Power** 99.00 % 20.70 MHz x dB Bandwidth x dB -26.00 dB

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

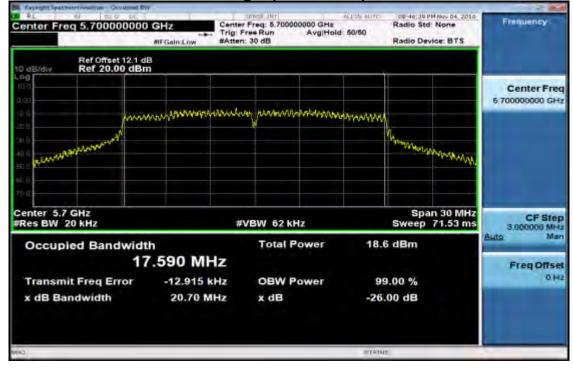


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26dB Band Width Test Data CH-High (5700 MHz)

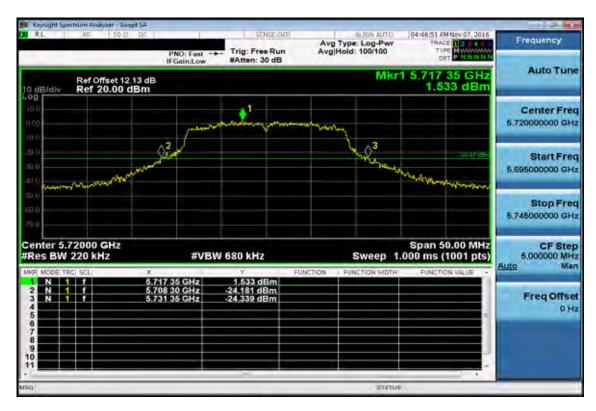


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802.11n HT20, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-High (5720 MHz)





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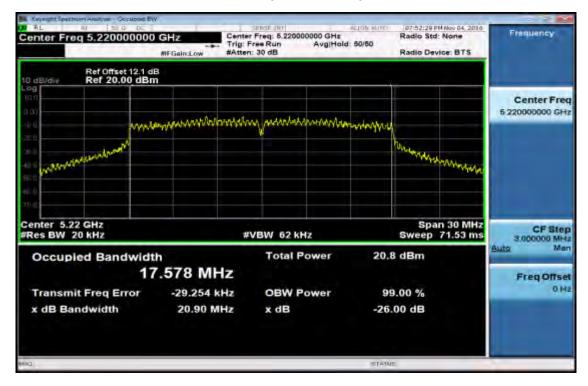
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802.11n HT20, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Low (5180 MHz)

Center Freq 5.18000000	-	Center Freq: 5.180000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Radio Device: BTS		Frequency		
Ref Offset 12.1 dl									
100 100 100 100	wantangen	t prevenie	www.	hatanatu	hownholed			Center Free 5.180000000 GH	
ar a 900 40 a 10 a 1						Thomas and	hanklanglan		
Center 5.18 GHz Res BW 20 kHz		#VBW 62 kHz			Span 30 MHz Sweep 71.53 ms			CF Step 3.000000 MHz Auto Man	
Occupied Bandwidth 17.576 M			Total P	ower	20,8	8 dBm		Freq Offset	
Transmit Freq Error x dB Bandwidth	-15.986 kH 19.90 MH					99.00 % -26.00 dB		0.H	
ed.					TAN	E.			

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



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

R Runght Spectration Analyze - Occupie	e Byy		58.387		al and a local	-	PM Nov 04, 2010	
Center Freq 5.2400000	MFGain:Low		eq: 5.24000		50/50	Radio Std: None Radio Device: BTS		Frequency
10 dB/div Ref Offset 12. Ref 20.00 d								
	wanter	Urbalitar	keren anda	ninnadhra				Center Free 5 240000000 GH
20.0	1-2 4044				AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	hippadar		
SEE							Northan	
40.0 70.0								
Center 5.24 GHz #Res BW 20 kHz		#VB	W 62 KH	z			an 30 MHz 71.53 ms	CF Step 3.000000 MH
Occupied Bandwi	dth 17.570 MH	Total Power			20.7 dBm			Auto Man Freg Offset
Transmit Freq Error-8.887x dB Bandwidth21.89					99.00 % -26.00 dB			0 H

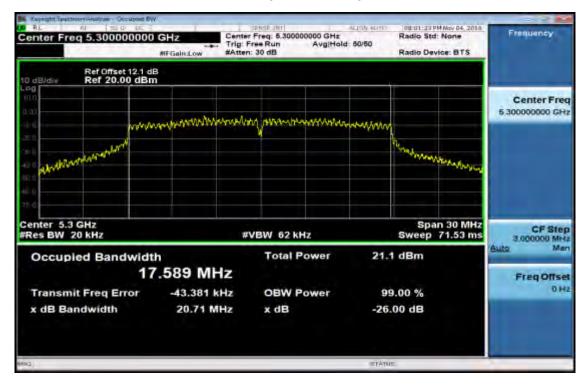
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802.11n HT20, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5260 MHz)

	nter Freq 5.260000000 GHz			Senter Freq: 5.26000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			M Nov 04, 2010 I: None vice: BTS	Frequency
10 dB/div Ref 20.00								
100	monterplanetaliti	wintun	preserver	manhu	malala			Center Free 5 260000000 GH
312 310 400 510 400						house	Wrandyn	
Center 5.25 GHz #Res BW 20 kHz		#VE	3W 62 KH	Iz			n 30 MHz 71.53 ms	CF Ster 3.00000 MH Auto Me
Occupied Bandy	width 17.566 MH	łz	Total P	ower	20.7	dBm		FreqOffse
Transmit Freq Erro x dB Bandwidth	or -11.682 k 21.89 M		OBW P	ower		9.00 % 00 dB		OH
Cer					STATU	6		

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



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

Keyeght Spectrem Analyzer - Occupied		-						
Center Freq 5.3200000	00 GHz		req: 5.32000 e Run 0 dB	AvgiHold	60/50	Radio Str	hind 04 2010 d: None vice: BTS	Frequency
10 dE/div Ref Offset 12.1 Ref 20.00 dl								
10 0	annannahnna	uwaang	partecteder	who who	ahaansaa			Center Free 5.320000000 GH
32.9 (30.0 40.0 WWWWWWWWW						howman	munut	
51 0 -00 0 -70 0								
Center 5.32 GHz #Res BW 20 kHz		#VE	3W 62 kH	z			an 30 MHz 71.53 ms	CF Step 3.000000 MH
Occupied Bandwi	_{dth} 17.595 MH	lz	Total Power			3 dBm		Auto Man Freg Offset
Transmit Freq Error -26.934 x dB Bandwidth 21.62			OBW Power x dB		99.00 % -26.00 dB			0 HJ
Diff					TAN	2		

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

RL N 04 2010 Center Freq: 5.50000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freg 5.500000000 GHz Radio Std: None MFGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5 500000000 GHz July . and markey Marriv WWW Center 5.5 GHz #Res BW 20 kHz Span 30 MHz Sweep 71.53 ms CF Step #VBW 62 kHz 3.000000 Auto Me Total Power 20.7 dBm Occupied Bandwidth 17.592 MHz Freq Offset 0 H **Transmit Freq Error** -20.482 kHz **OBW Power** 99.00 % x dB Bandwidth 21.05 MHz x dB -26.00 dB

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



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

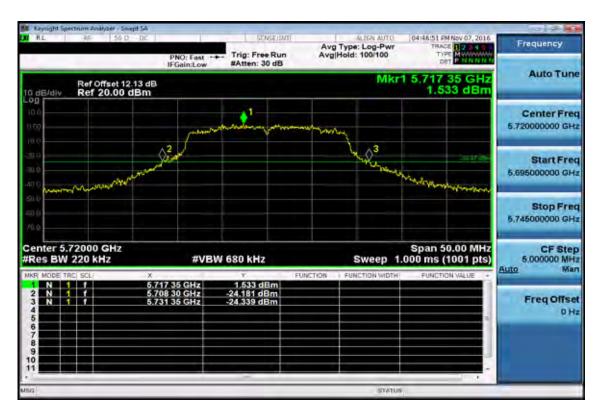
Center Freq 5.70000000	- GILZ	Center Freq: 5,70000 Trig: Free Run #Atten: 30 dB	0000 GHz AvgiHold: 50/50	Radio Ste	PH Nov 04, 2016 d: None wice: BTS	Frequency
10 dB/div Ref Offset 12.1 d Ref 20.00 dBr						
	- companyation	unless musich	nertexternertext			Center Free 5 700000000 GH
are month	n for the former of the	V		henewson	Vinana Adama	
Center 5.7 GHz #Res BW 20 kHz		#VBW 62 kH	z		an 30 MHz 71.53 ms	CF Step
Occupied Bandwidth 17.589 N		Total P	ower 20	.4 dBm		Auto Man Freq Offset
Transmit Freq Error x dB Bandwidth	-18.561 kH 20.96 MH			99.00 % -26.00 dB		0.442
963			TA	N/E		A

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802.11n HT20, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-High (5720 MHz)





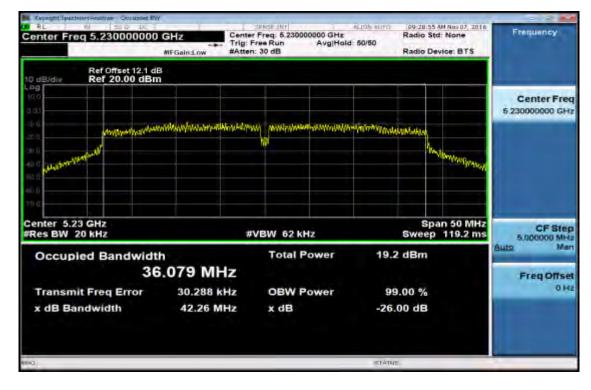
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802.11n HT40, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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

RL 69-31:35 M4 Nov 07, 3816 Radio Std: None Center Freq. 5.27000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freq 5.270000000 GHz MEGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm Center Freq 5 270000000 GHz In water the second standard and second AMAGINALASIS abrilda Span 50 MHz Sweep 119.2 ms Center 5.27 GHz #Res BW 20 kHz CF Step #VBW 62 kHz 5.000000 Auto Me Total Power 20.0 dBm Occupied Bandwidth 36.131 MHz Freq Offset 0 H **Transmit Freq Error** 11.390 kHz **OBW Power** 99.00 % x dB Bandwidth 42.79 MHz x dB -26.00 dB

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



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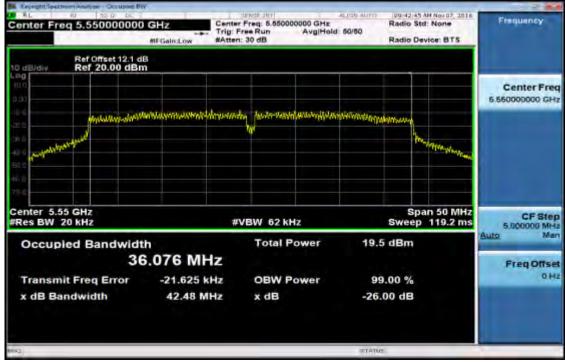
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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5510 MHz)

RL 39:46 AM Nov 07, 2016 Center Freq: 5.51000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB Frequency Center Freq 5.510000000 GHz Radio Std: None MFGain:Low Radio Device: BTS Ref Offset 12.1 dB Ref 20.00 dBm **Center Freq** 5 510000000 GHz user and the second second second second second mular and shaked as large **Withwa**a Span 50 MHz Sweep 119.2 ms Center 5.51 GHz CF Step #Res BW 20 kHz #VBW 62 kHz 5.000000 Auto Me Total Power 18.8 dBm Occupied Bandwidth 36.099 MHz Freq Offset 0 H **Transmit Freq Error** -52.990 kHz **OBW Power** 99.00 % x dB Bandwidth 42.56 MHz x dB -26.00 dB

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



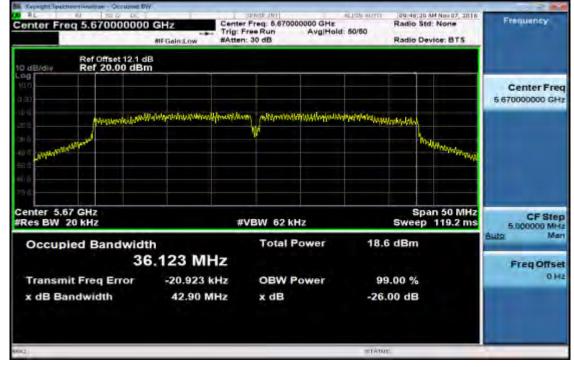
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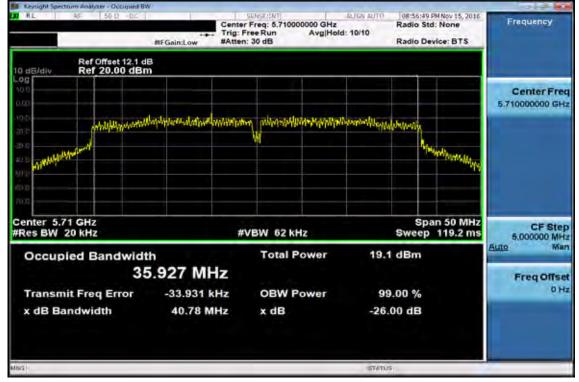
26dB Band Width Test Data CH-High (5670 MHz)



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802.11n HT40, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5710 MHz)





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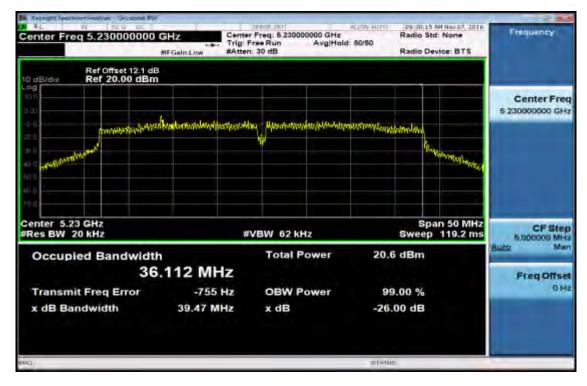
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802.11n HT40, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Low (5190 MHz)



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



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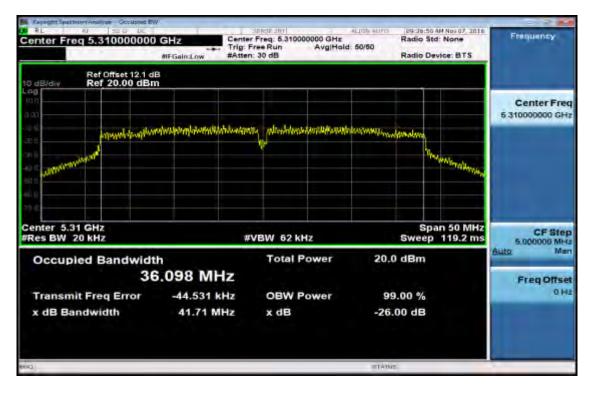
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802.11n HT40, 5250~5350 MHz (Aux) 26dB Band Width Test Data CH-Low (5270 MHz)

enter Freq 5.270000000	T	Center Freq: 5.27000 rig: Free Run Atten: 30 dB	Radio S	td: None evice: BTS	Frequency	
Ref Offset 12.1 dl						
100 Aad	uneren al arandor and arange	investion stationation	impolecontrationegation	West in all a		Center Fred 5 270000000 GHz
200 philosophia in a					which	
Center 5.27 GHz				C n	an 50 MHz	
Res BW 20 kHz		#VBW 62 kH		Sweep	119.2 ms	CF Step 5,000000 MH
Occupied Bandwidt	h 5.136 MHz	Total P	ower	20.7 dBm		FreqOffset
Transmit Freq Error 21.762 x dB Bandwidth 40.38				99.00 % -26.00 dB		0 Hz
10				TANK		

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



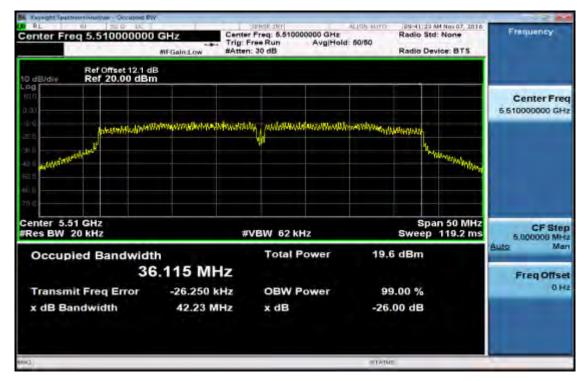
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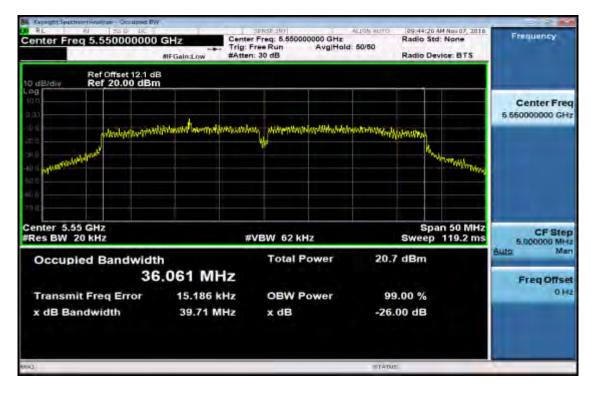
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802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5510 MHz)



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



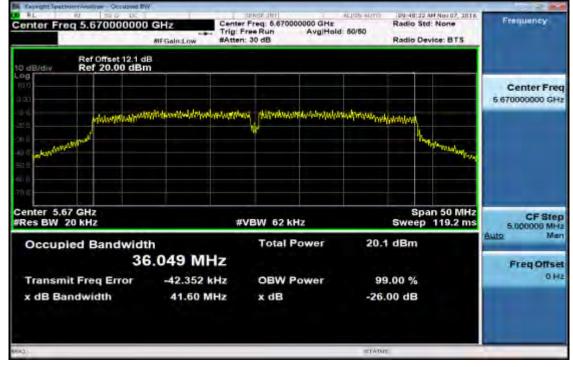
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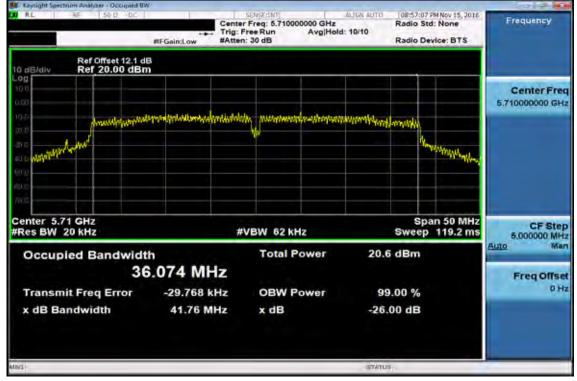
26dB Band Width Test Data CH-High (5670 MHz)



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802.11n HT40, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5710 MHz)



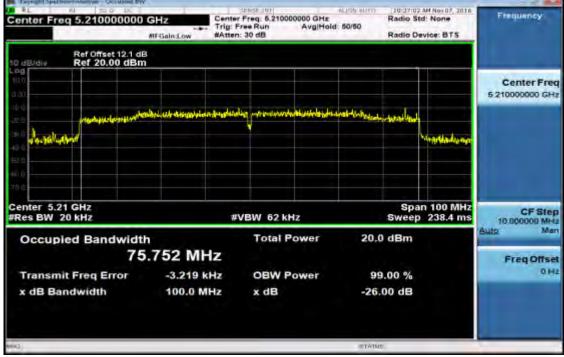


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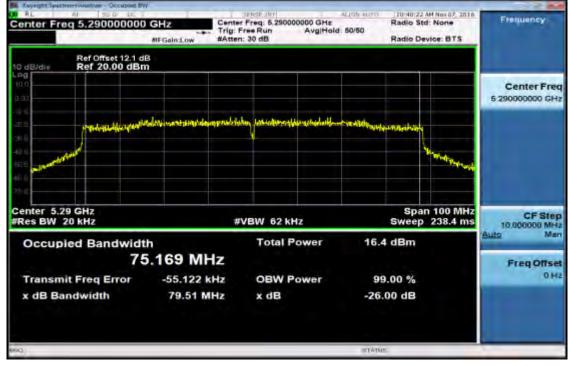
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802.11ac VHT80, 5150~5250 MHz (Main) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



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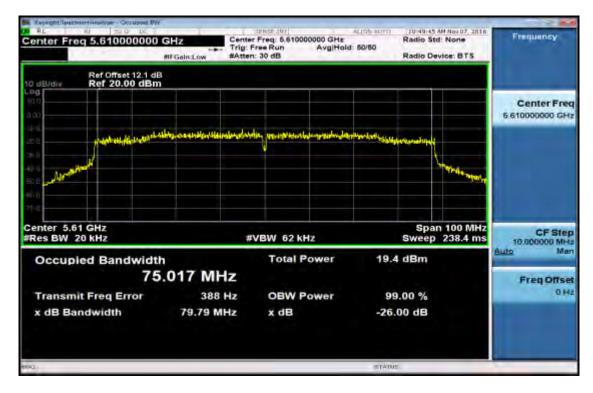
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5530 MHz)



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



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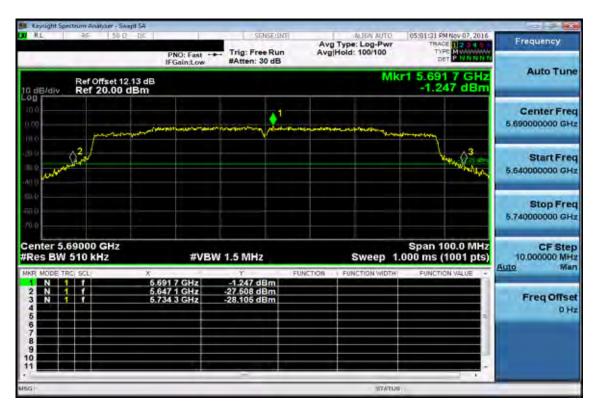
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802.11ac VHT80, 5470~5725 MHz (Main) 26dB Band Width Test Data CH-Low (5690 MHz)



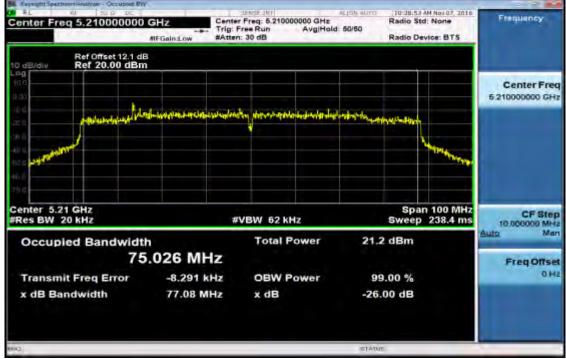


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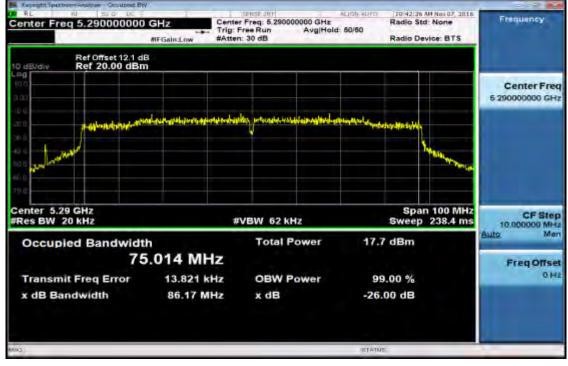
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802.11ac VHT80, 5150~5250 MHz (Aux) 26dB Band Width Test Data CH-Mid (5210 MHz)



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



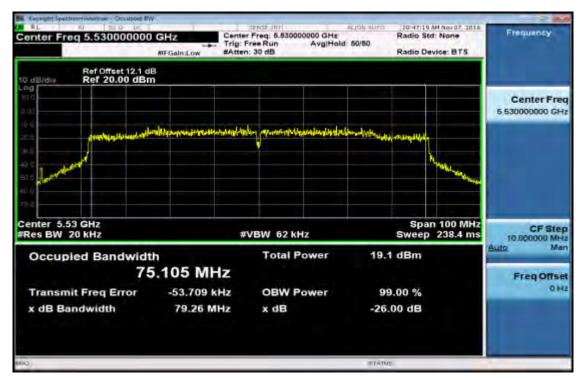
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802.11ac VHT80, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5530 MHz)



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

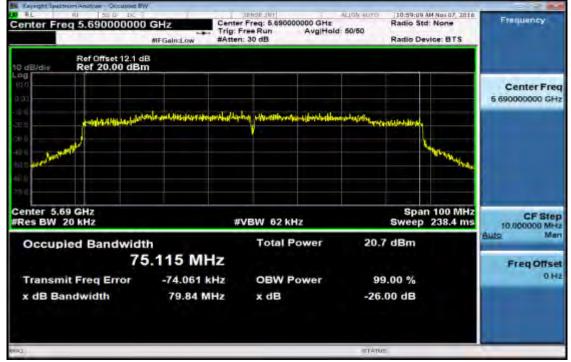


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802.11ac VHT80, 5470~5725 MHz (Aux) 26dB Band Width Test Data CH-Low (5690 MHz)



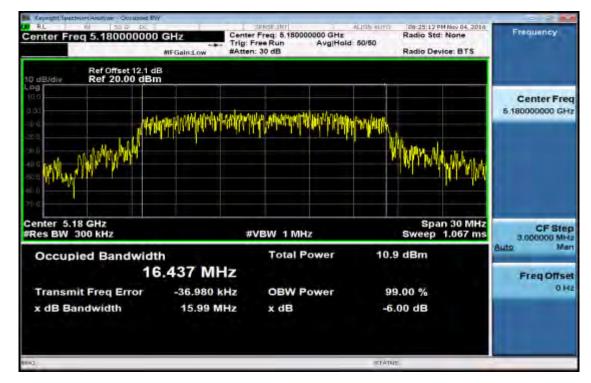


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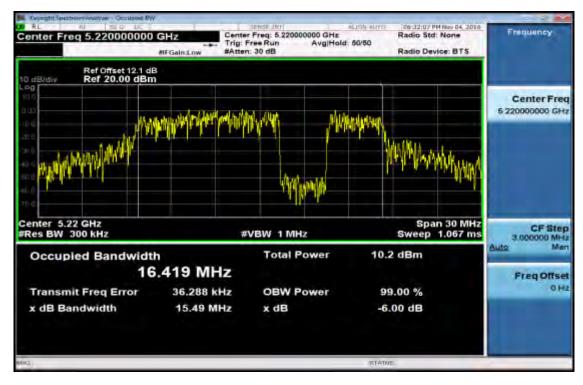
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802.11a, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180MHz)



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

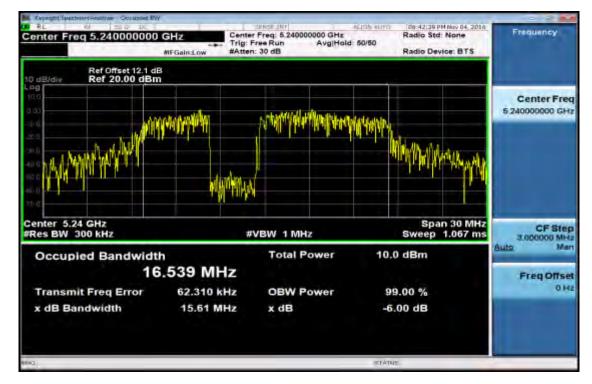


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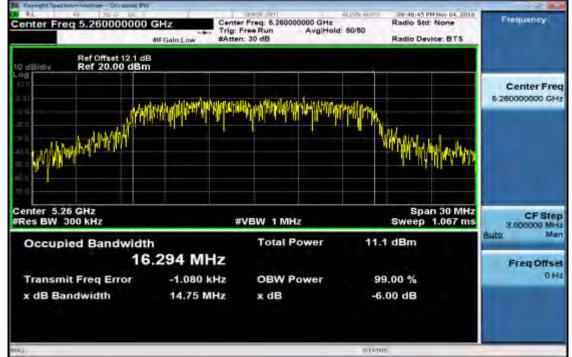
99% Band Width Test Data CH-High (5240MHz)



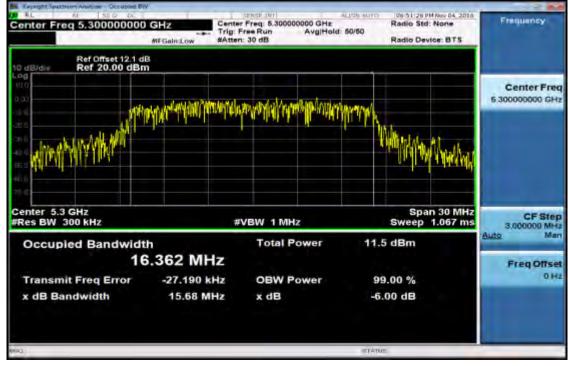
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802.11a, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260MHz)



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

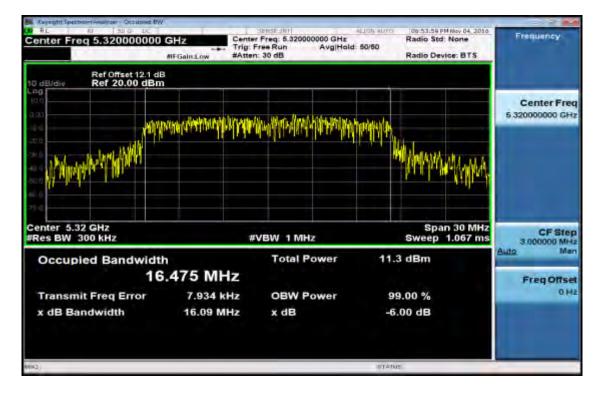


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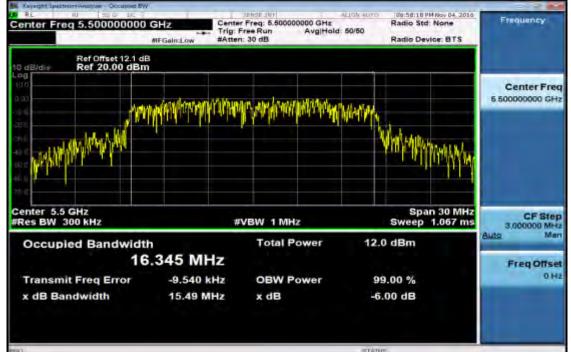
99% Band Width Test Data CH-High (5320MHz)



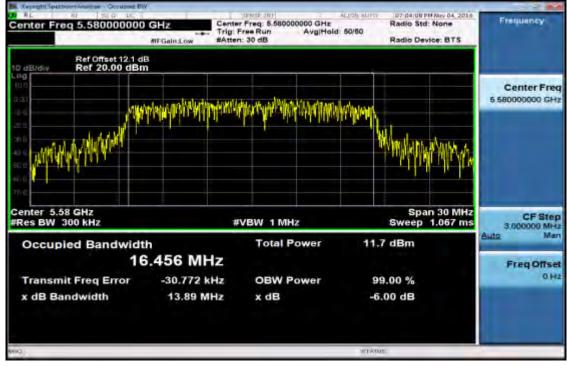
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802.11a, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500MHz)



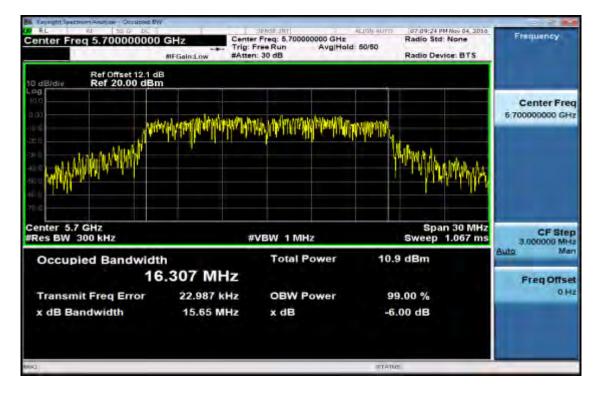
99% Band Width Test Data CH-Mid (5580MHz)



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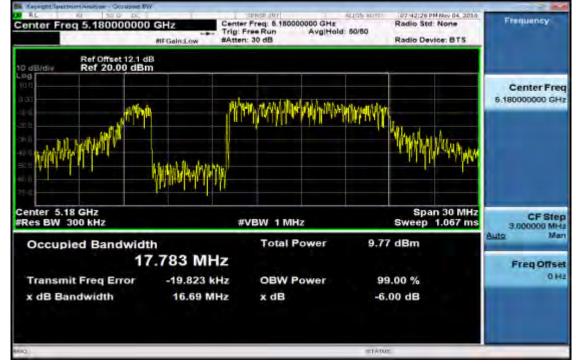
99% Band Width Test Data CH-High (5700MHz)



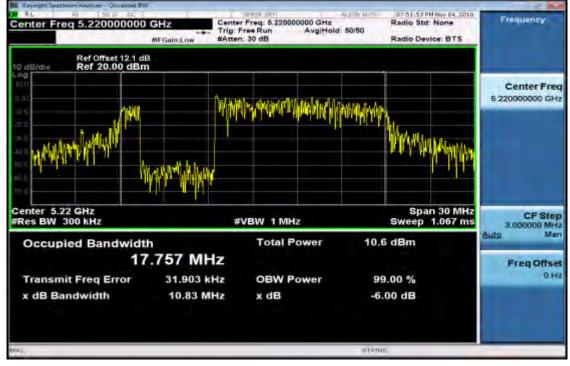
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802.11n HT20, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5180 MHz)



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

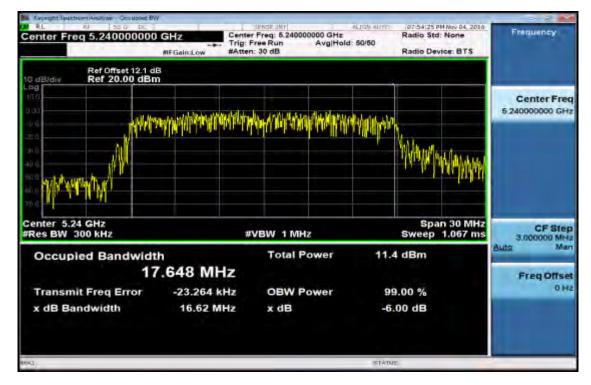


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99% Band Width Test Data CH-High (5240 MHz)



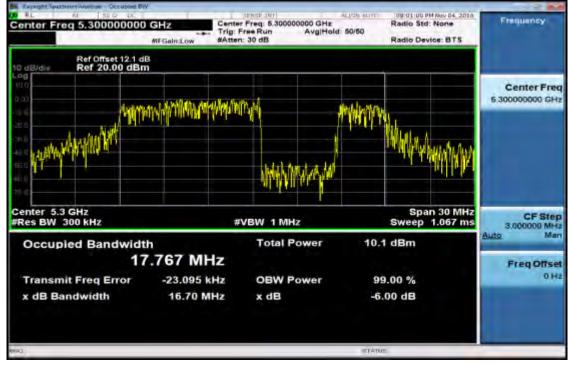
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802.11n HT20, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5260 MHz)



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

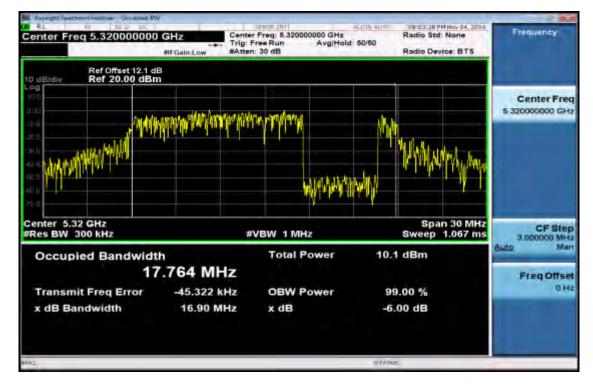


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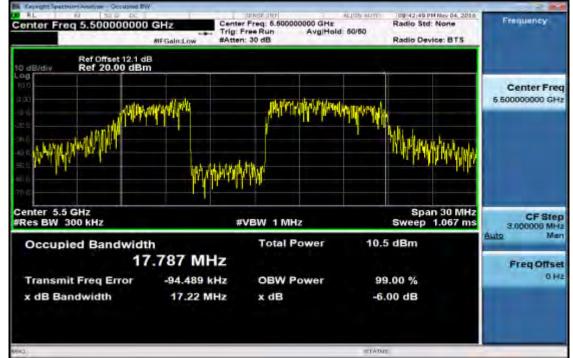
99% Band Width Test Data CH-High (5320 MHz)



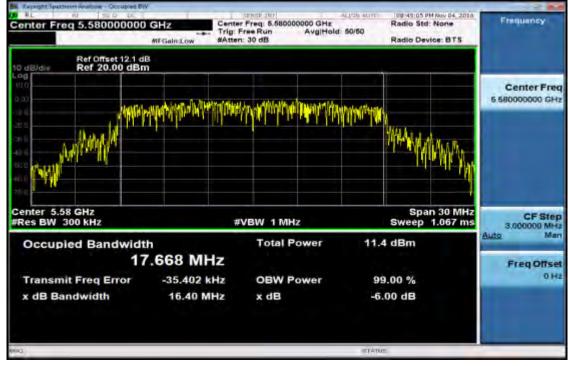
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802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5500 MHz)



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



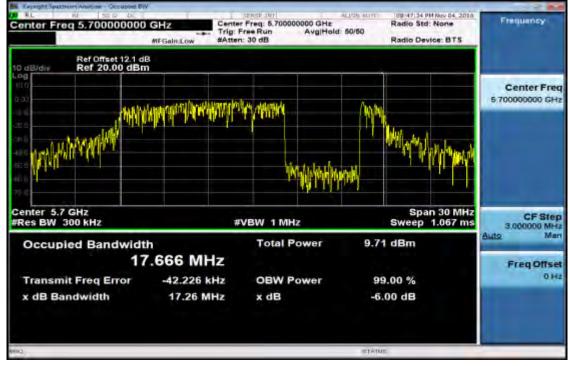
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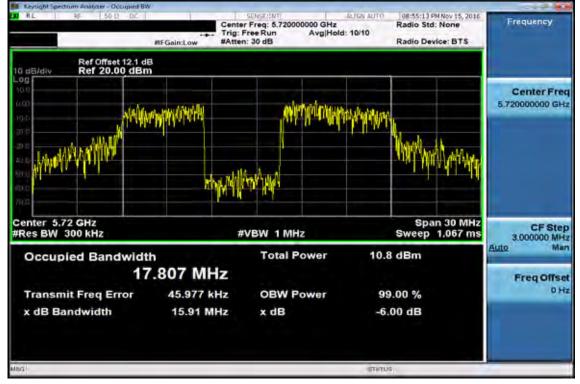
99% Band Width Test Data CH-High (5700 MHz)



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802.11n HT20, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5720 MHz)

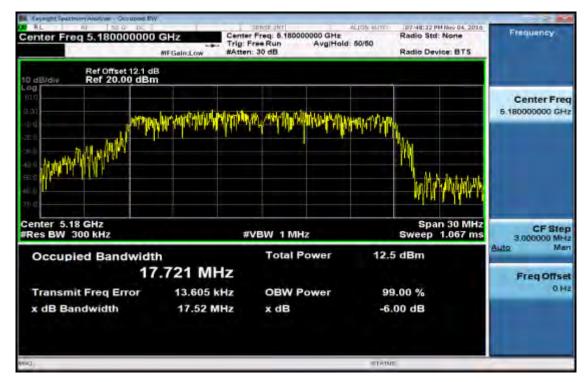




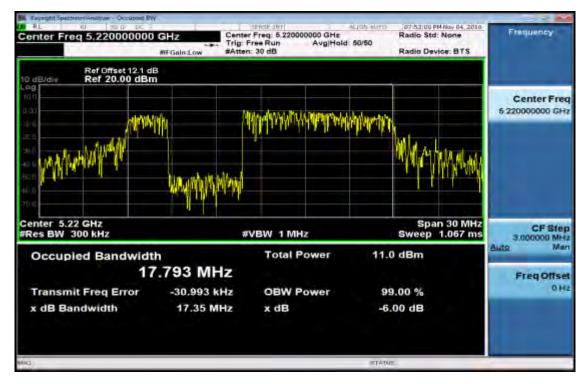
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802.11n HT20, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Low (5180 MHz)



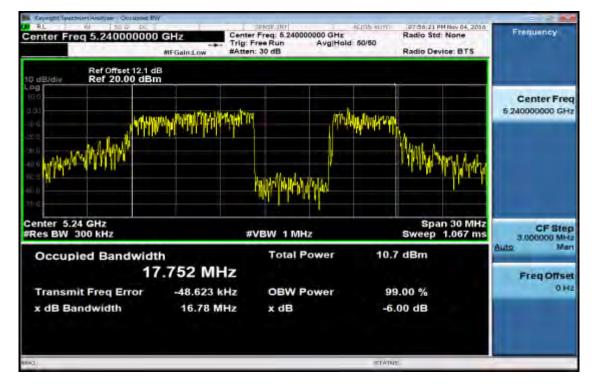
99% Band Width Test Data CH-Mid (5220 MHz)



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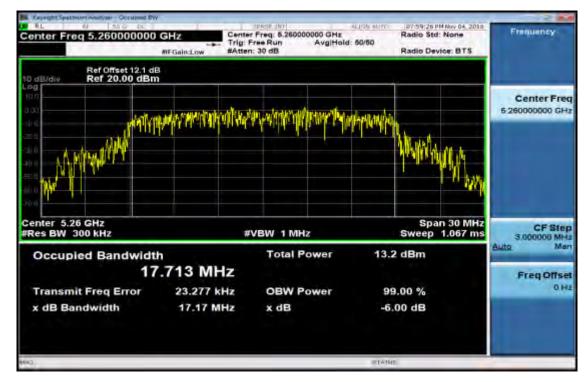
99% Band Width Test Data CH-High (5240 MHz)



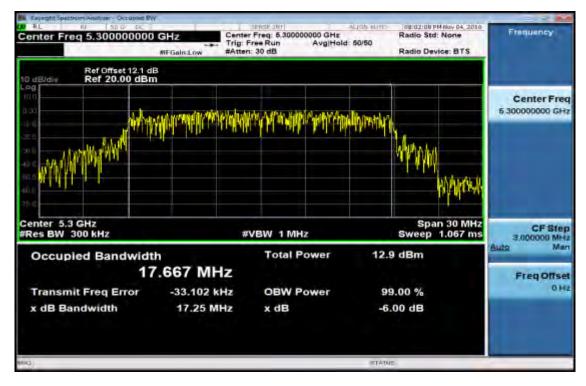
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802.11n HT20, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5260 MHz)



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



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

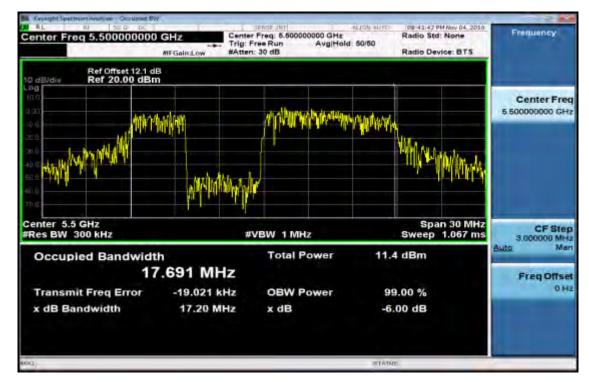
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Center 5.32 GHz #Res BW 300 kHz	In In	#VBW 1 MHz	Span 30 Sweep 1.06	7 ms 3,000000 MHz
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Transmit Freq Error x dB Bandwidth	-37.140 kHz 16.87 MHz		99.00 % -6.00 dB	0.04
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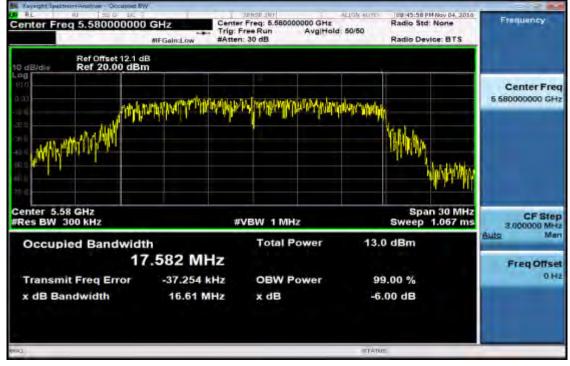
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.



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



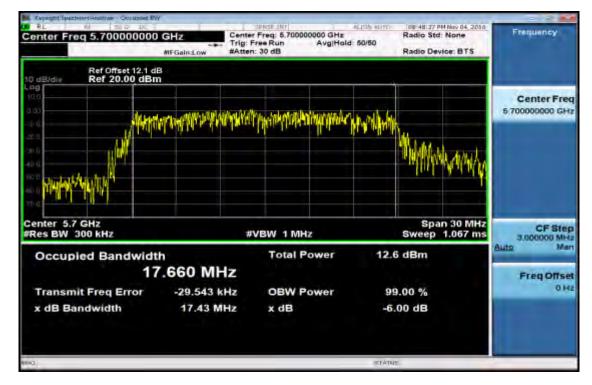
99% Band Width Test Data CH-Mid (5580 MHz)



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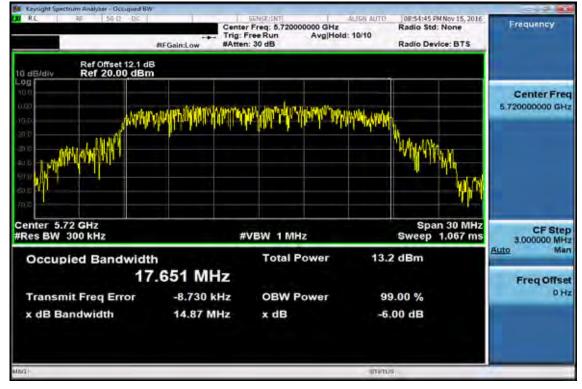
99% Band Width Test Data CH-High (5700 MHz)

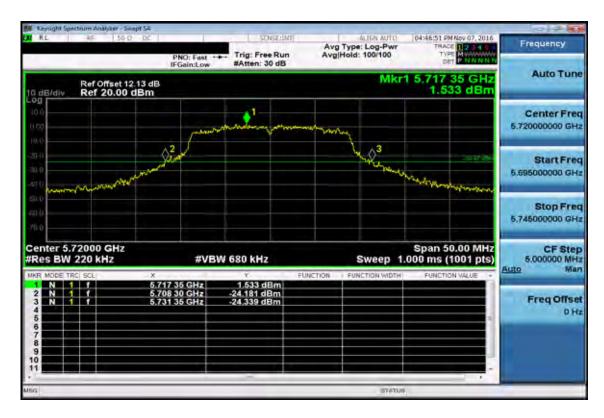


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802.11n HT20, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5720 MHz)

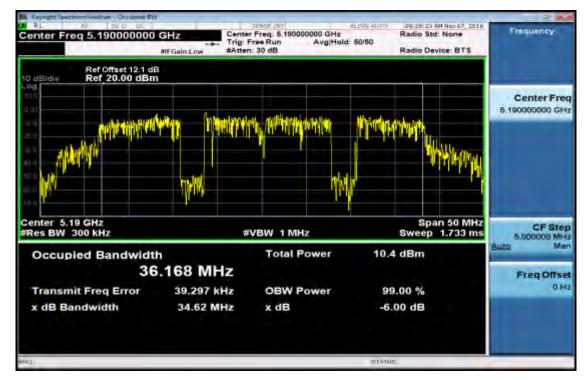




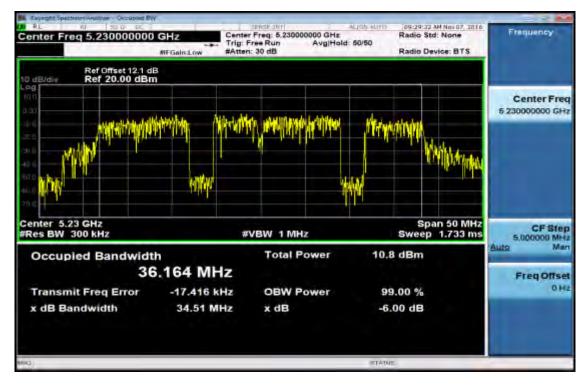
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802.11n HT40, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Low (5190 MHz)



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



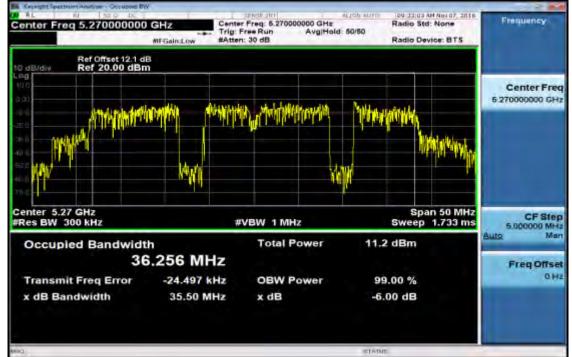
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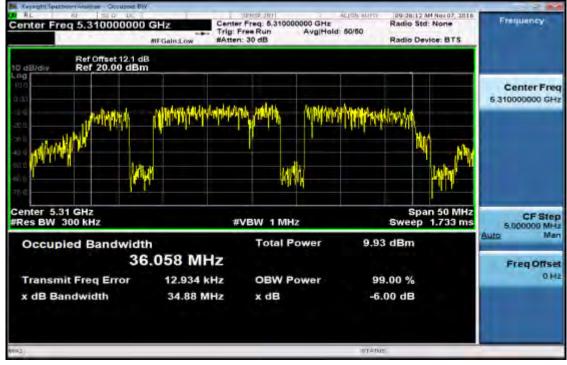
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802.11n HT40, 5250~5350 MHz (Main) 99% Band Width Test Data CH-Low (5270 MHz)



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

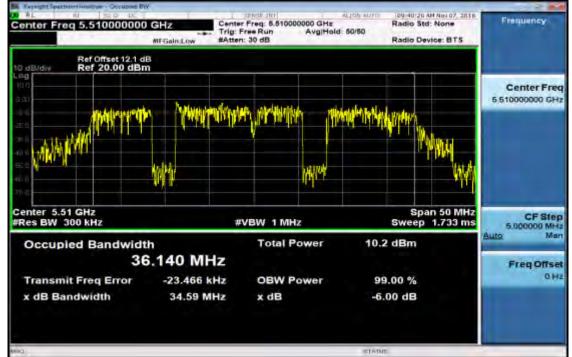


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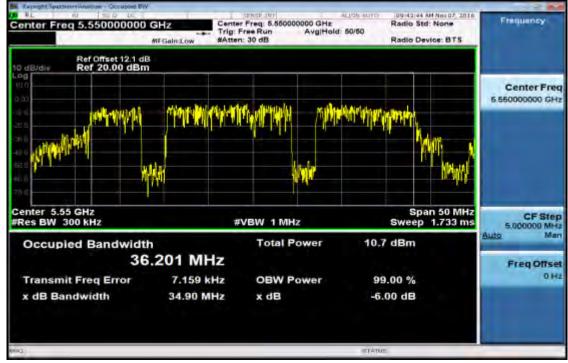
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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5510 MHz)



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

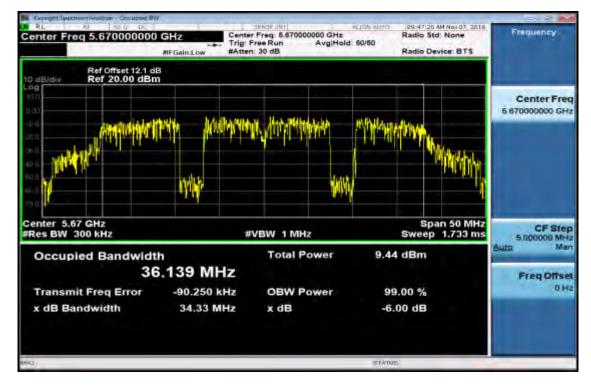


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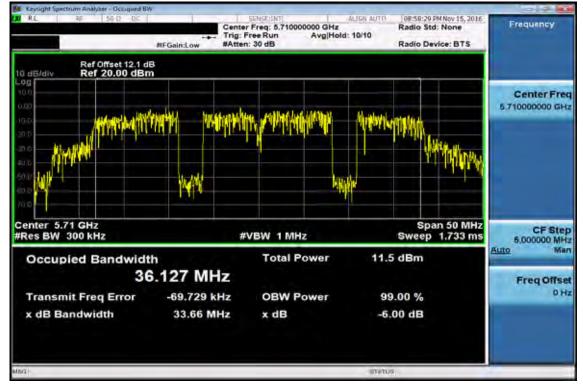
99% Band Width Test Data CH-High (5670 MHz)

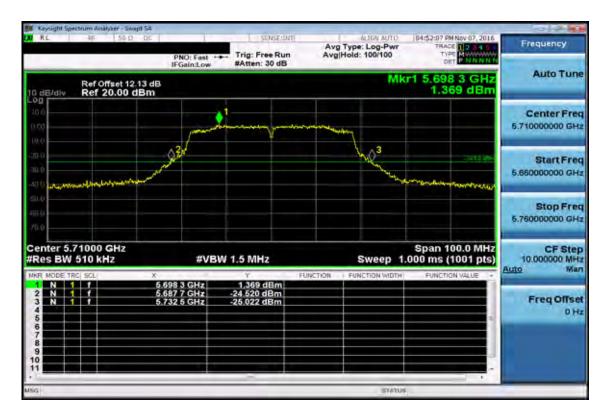


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802.11n HT40, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5710 MHz)

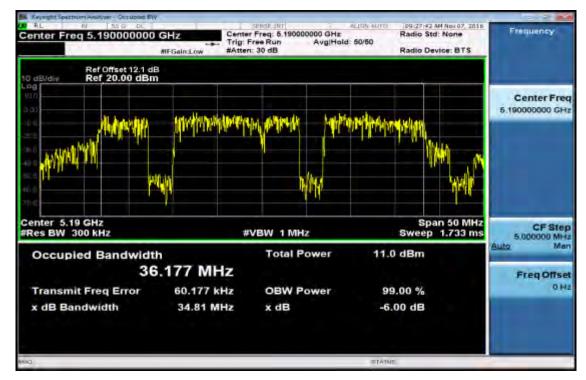




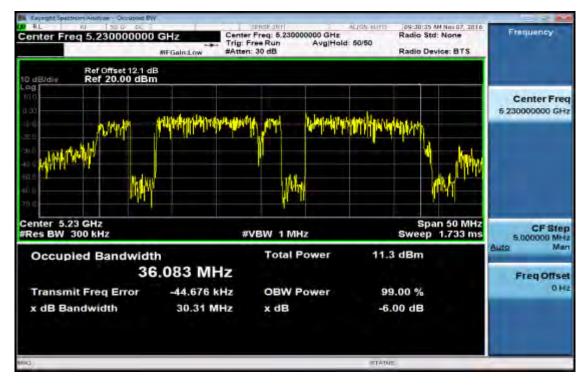
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802.11n HT40, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Low (5190 MHz)



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



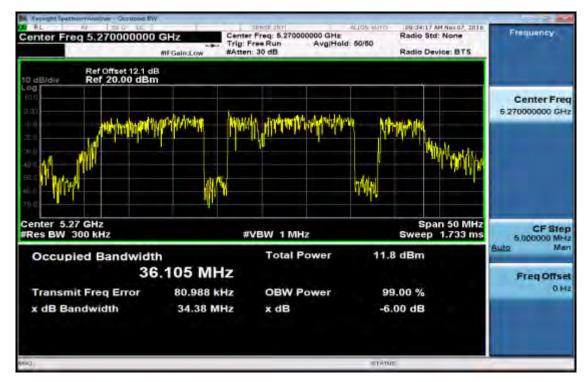
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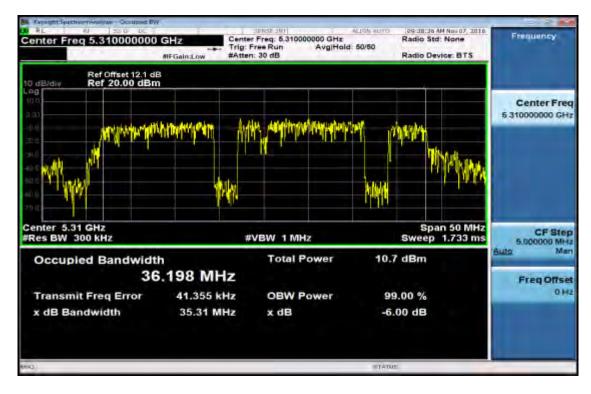
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802.11n HT40, 5250~5350 MHz (Aux) 99% Band Width Test Data CH-Low (5270 MHz)



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

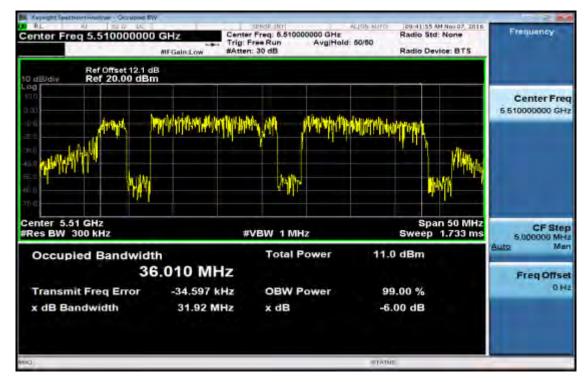


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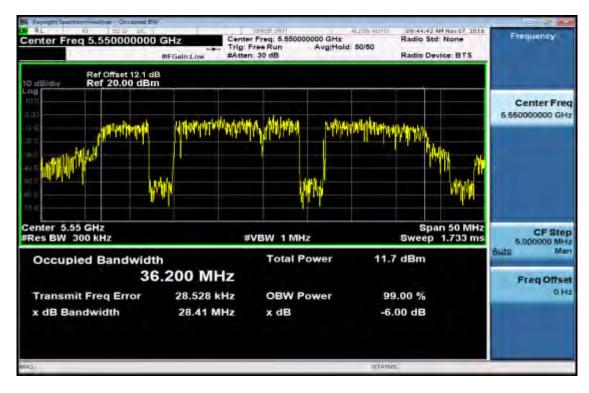
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802.11n HT40, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5510 MHz)



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



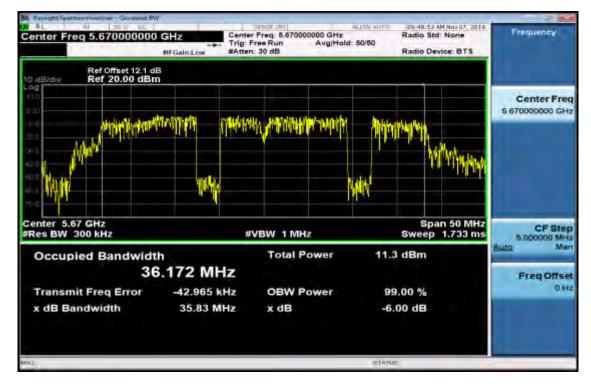
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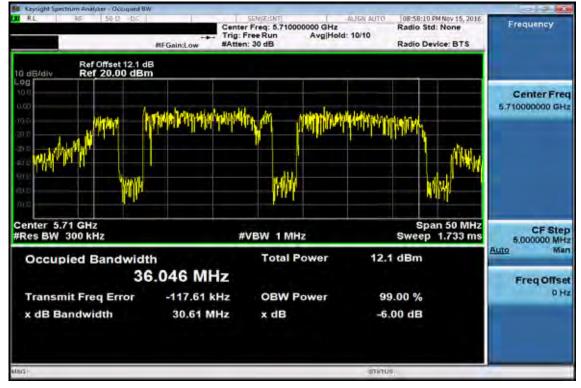
99% Band Width Test Data CH-High (5670 MHz)

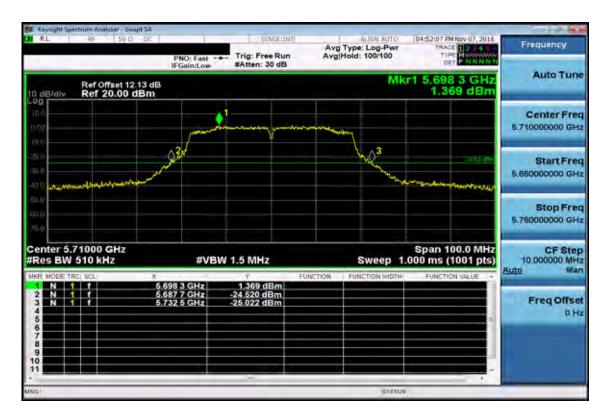


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802.11n HT40, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5710 MHz)

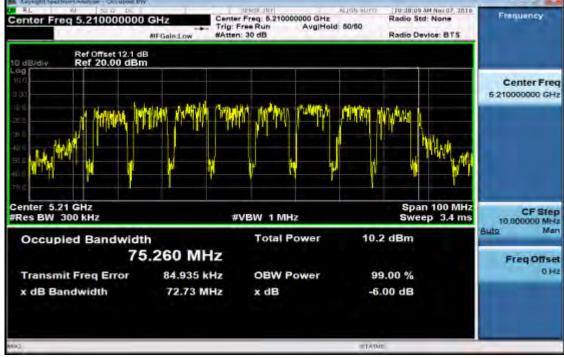




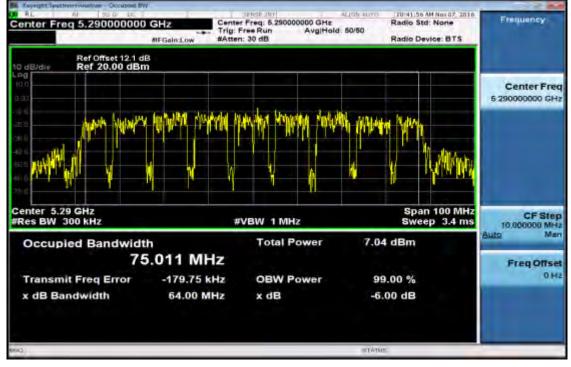
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802.11ac VHT80, 5150~5250 MHz (Main) 99% Band Width Test Data CH-Mid (5210 MHz)



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

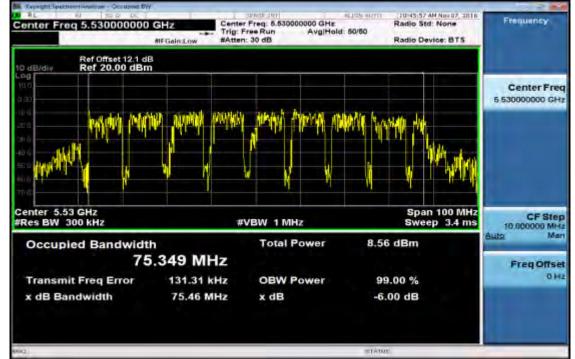


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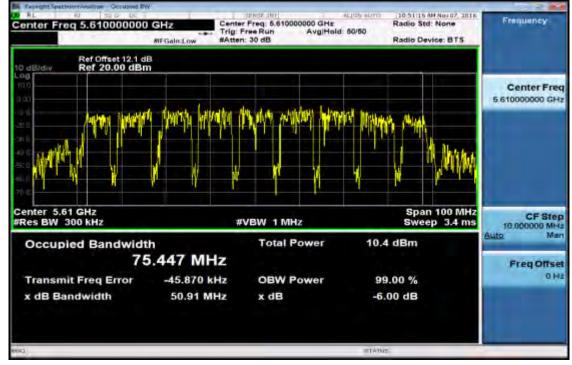
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802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5530 MHz)



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



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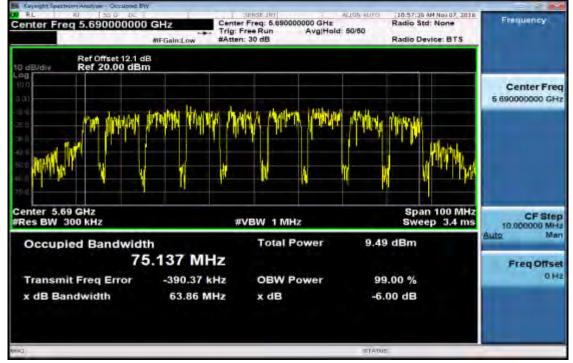
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802.11ac VHT80, 5470~5725 MHz (Main) 99% Band Width Test Data CH-Low (5690 MHz)



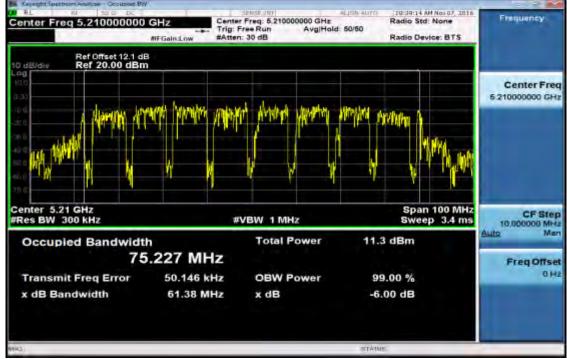


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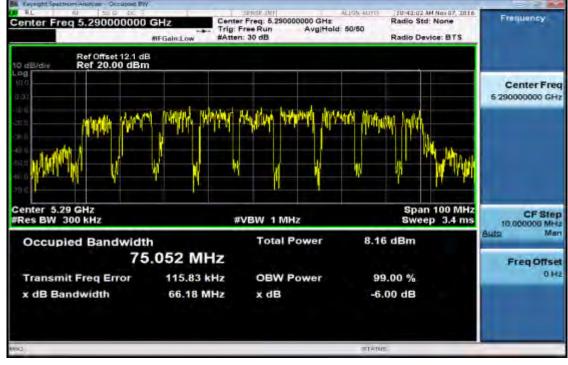
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802.11ac VHT80, 5150~5250 MHz (Aux) 99% Band Width Test Data CH-Mid (5210 MHz)



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



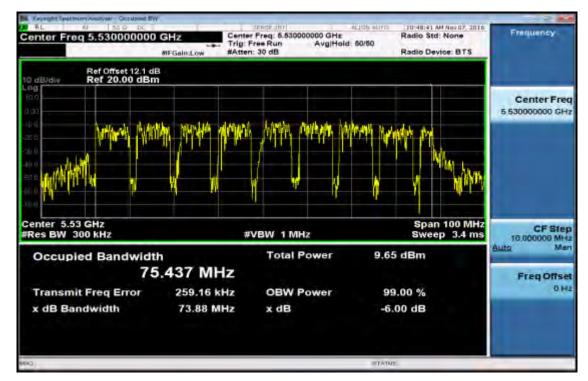
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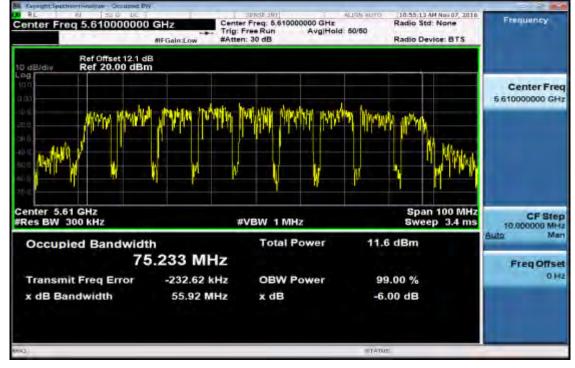
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802.11ac VHT80, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5530 MHz)



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

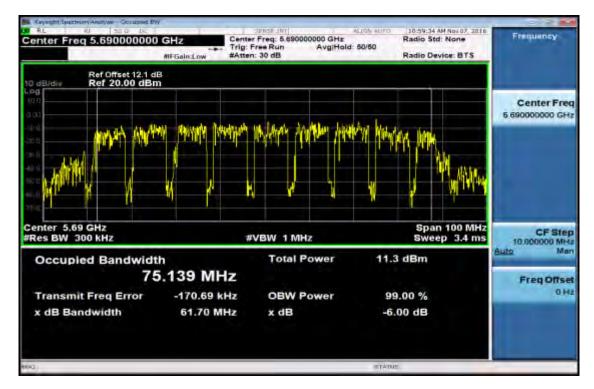


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802.11ac VHT80, 5470~5725 MHz (Aux) 99% Band Width Test Data CH-Low (5690 MHz)



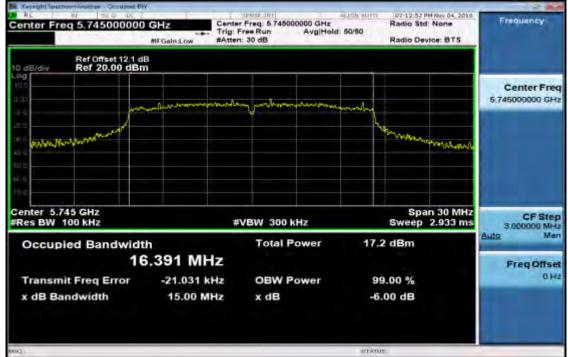


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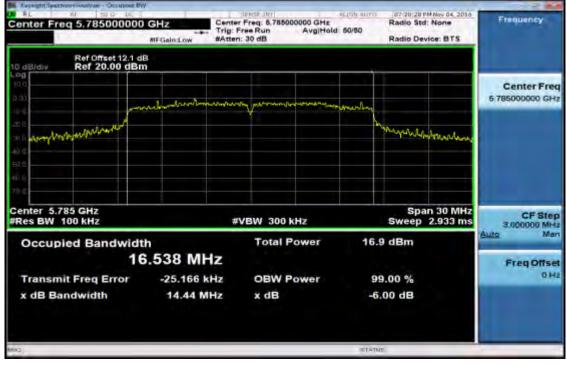
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6dB Band Width measure with Peak detector for FCC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)



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



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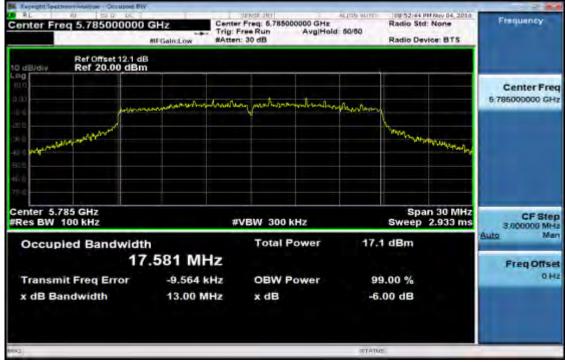
Center Freq 5.82500000		enter Freq: 5.82500 rig: Free Run Atten: 30 dB	AvgiHold: 50/50	Radio Str	PM Nov 04, 2016 d: None vice: BTS	Frequency
Ref Offset 12.1 o Ref 20.00 dBr						
10 0 20 0 20 0 20 0 20 0 20 0 50 0 50 0	muntantino.	anterny antoansta	num du gand	man	unnung	Center Free 5 825000000 GHz
Center 5.825 GHz #Res BW 100 kHz		#VBW 300 k	Hz		an 30 MHz 2.933 ms	CF Step 3.000000 MH
Occupied Bandwid	th 6.444 MHz	Total P	ower	17.7 dBm		FreqOffset
Transmit Freq Error x dB Bandwidth	-25.923 kHz 15.22 MHz	OBW P	ower	99.00 % -6.00 dB		OH
191 1			5	TATME	_	

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

11.24	g 5.7450000	the second se	Center Trig: F	r Freq: 5.74500 Free Run h: 30 dB	AvgiHali	d: 50/50	Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset 12 Ref 20.00 c								
10.0 0.00 0.00		water of the state	manhama	njunnum	molinals	manhow			Center Freq 5.745000000 GHz
200	work						Martin West	Morrow March	
40 0. Sit 0.									
Center 5.74	5 GH2						Sni	an 30 MHz	1
Res BW 10			#	VBW 300	KHZ			2.933 ms	CF Step 3.000000 MHz
Occupie	ed Bandw	idth		Total P	ower	16.8	3 dBm		Auto Man
		17.591 M	ИHz						Freq Offset
Transmit	Freq Error	-3.06	6 kHz	OBW P	ower	99	9.00 %		0 Hz
x dB Ban	dwidth	13.84	MHz	x dB		-6.	00 dB		
Date						TAN	č.		4

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



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Center Fre	iq 5.825000		Center Trig: F	Freq: 5.82500 ree Run : 30 dB		1: 50/50	Radio Sto		Frequency
10 dB/div	Ref Offset 1 Ref 20.00								
100 000 000		monoralise	hintonto	warnansa	putamilua	mentions			Center Fred 5 825000000 GH:
-2010 	and the state of the						mun	maline	
-010 -010 -700									
Center 5.8 #Res BW 1			10	/BW 300 k	Hz			2.933 ms	CF Step 3.000000 MH
Occupi	ed Bandv	vidth 17.599 N	ИНz	Total P	ower	17.1	dBm		Auto Mar Freq Offset
	it Freq Erro ndwidth		5 kHz MHz	OBW P x dB	ower		9.00 % 00 dB		0 Hz
						TATU			A

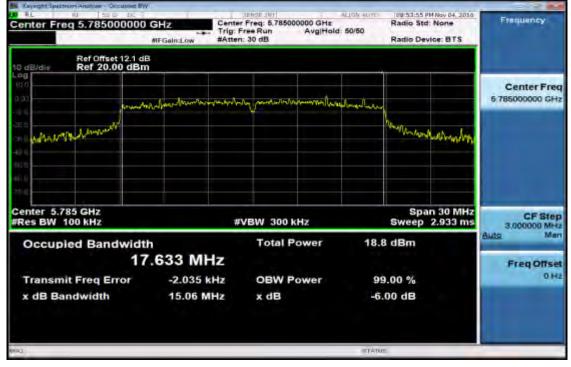
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802.11n_HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)

Center Freq 5.745000000	Trig: 1	Center Free C. 575000000 GHz Trig: Free Run AvgiHold: 50/50 #Atten: 30 dB			Million 04, 2018 1: None vice: BTS	Frequency
O dB/die Ref Offset 12.1 dB Ref 20.00 dBm				à		
100	Montheman	n have a second and a second	ndiventure			Center Fred 5,745000000 GH
wonderger				moun	nomena	
6 0 0 0						
Center 5.745 GHz Res BW 100 kHz		VBW 300 kHz			an 30 MHz 2.933 ms	CF Step 3.000000 MH
Occupied Bandwidth	610 MHz	Total Power	18.	9 dBm		Auto Mar
Transmit Freq Error x dB Bandwidth	-8.332 kHz 16.31 MHz	OBW Power x dB		9.00 % .00 dB		Freq Offset 0 Hi
D			STAD	15		

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



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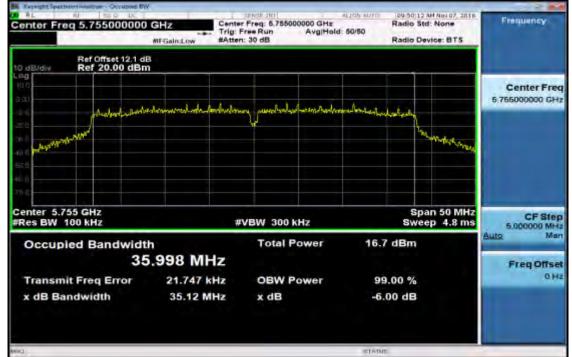


Center Fre	q 5.82500	00000 G	HZ FGain:Low	Center F			60/50	Radio Std: None Radio Device: BTS		Frequency
10 dB/div	Ref Offset Ref 20.0			_						
(0,0) - (0,0) - (0,0)		canthen	vannanta	whentry	mounds	germanten				Center Free 5 825000000 GH:
2010 	Wondowoodw							mont	Mutrown	
Center 5.8								Spa	an 30 MHz	CF Step
Occupi	ed Band		575 M		Total P		19.1	Sweep dBm	2.933 ms	3.000000 MH Auto Mar
	Transmit Freq Error x dB Bandwidth		-3.148 15.74 M	kHz	OBW Power		99.00 % -6.00 dB			Freq Offset 0 Hi

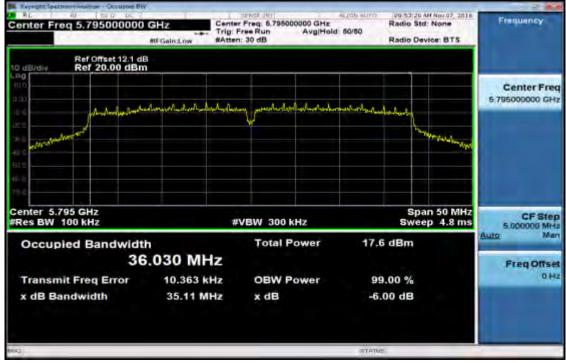
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802.11n HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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



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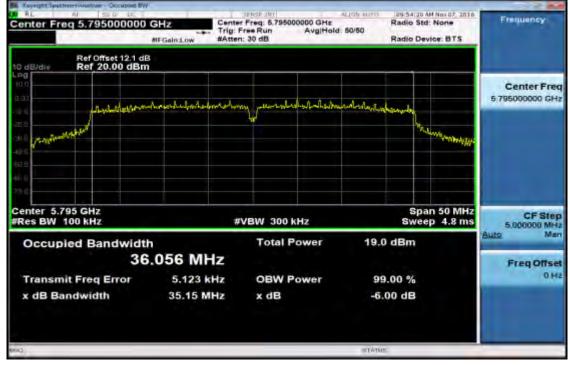
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802.11n HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



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



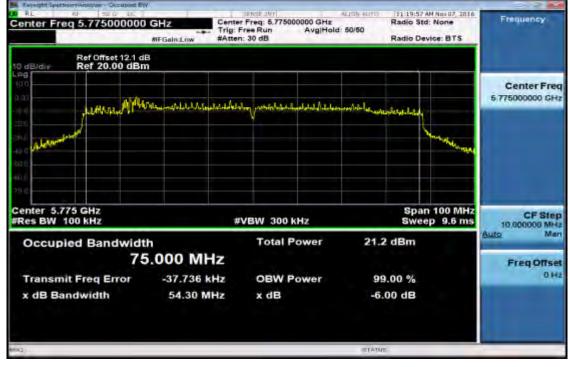
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802.11ac VHT80, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5775 MHz)



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

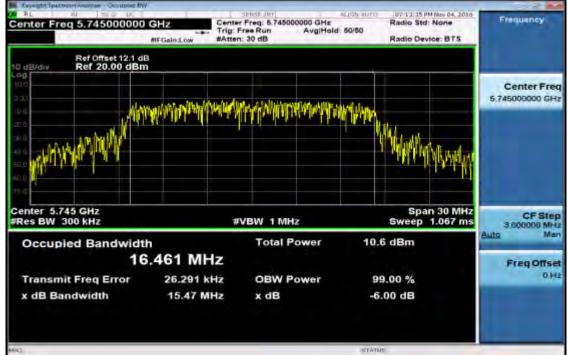


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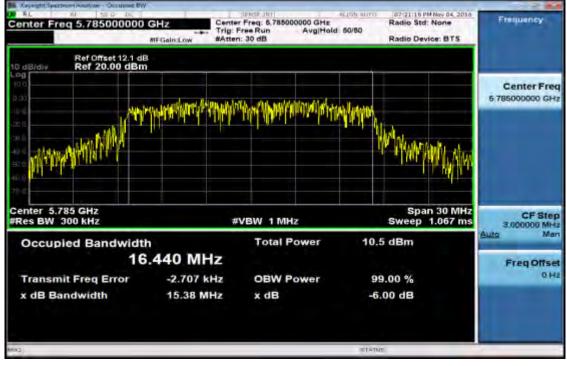
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6dB Band Width measure with Average detector for IC 802.11a, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)

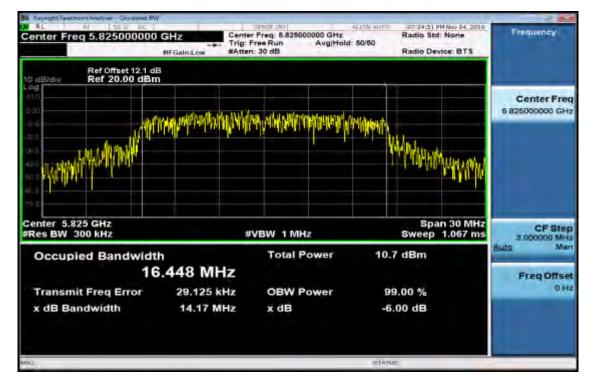


6dB Band Width Test Data CH-Mid (5785 MHz)



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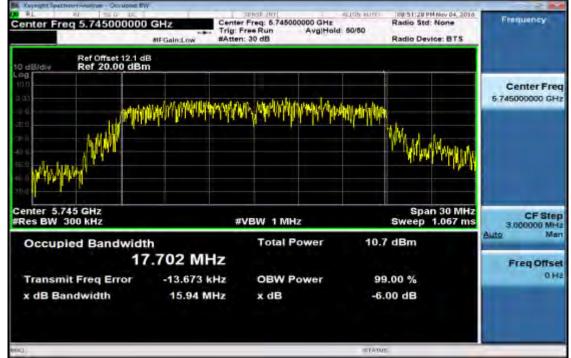




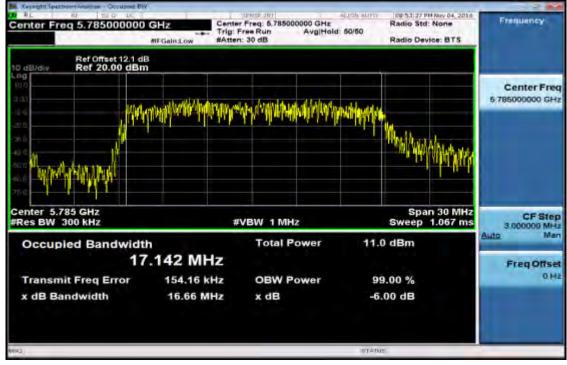
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802.11n HT20, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5745 MHz)

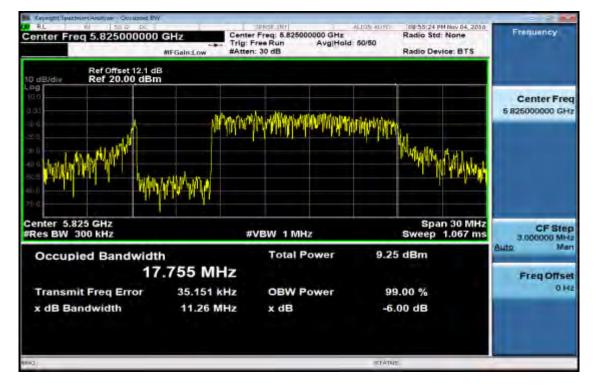


6dB Band Width Test Data CH-Mid (5785 MHz)



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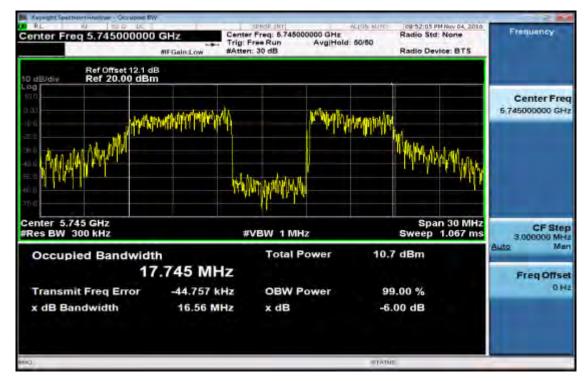
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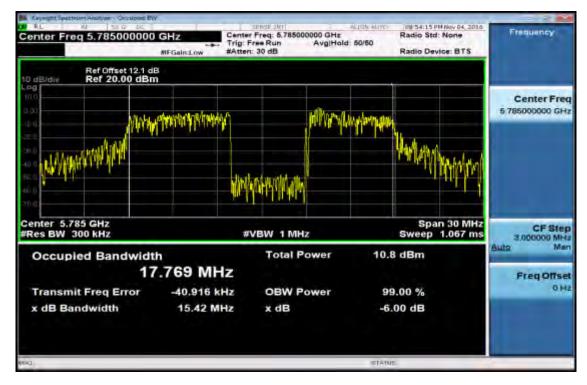
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802.11n HT20, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5745 MHz)

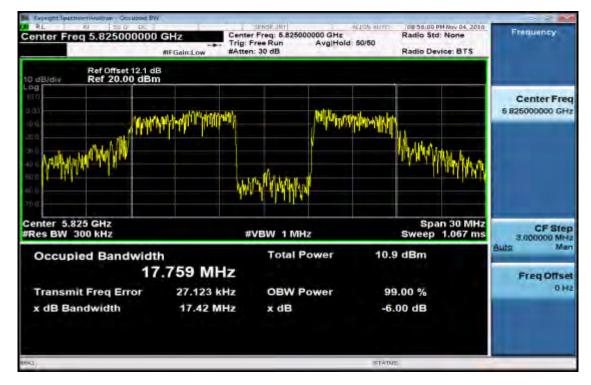


6dB Band Width Test Data CH-Mid (5785 MHz)



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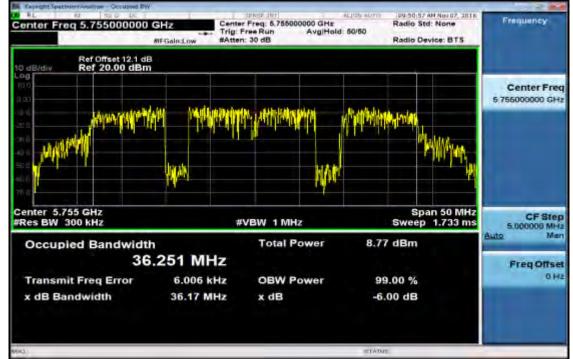




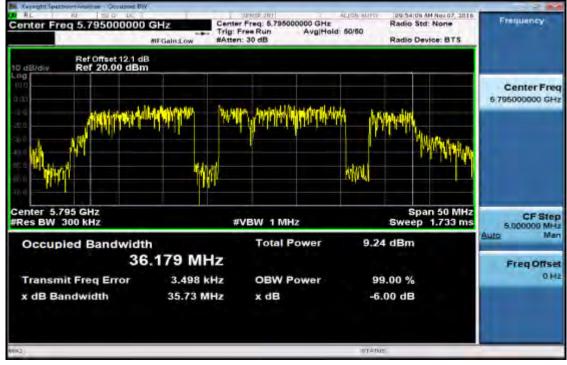
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802.11n HT40, 5725~5850 MHz (Main) 6dB Band Width Test Data CH-Low (5755 MHz)



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

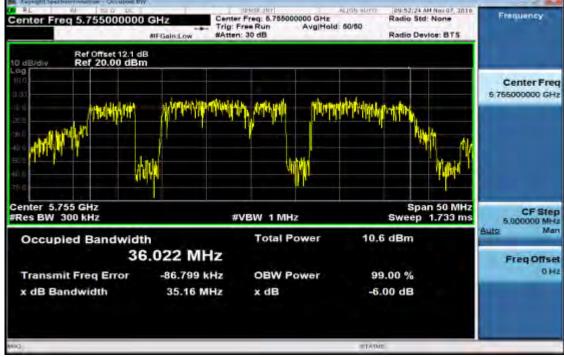


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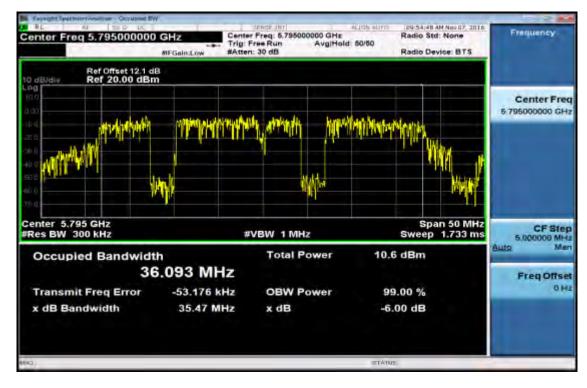
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802.11n HT40, 5725~5850 MHz (Aux) 6dB Band Width Test Data CH-Low (5755 MHz)



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

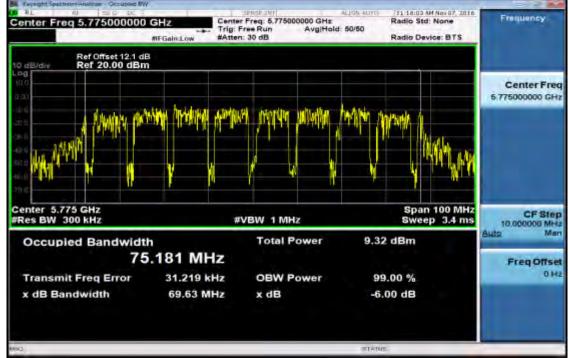


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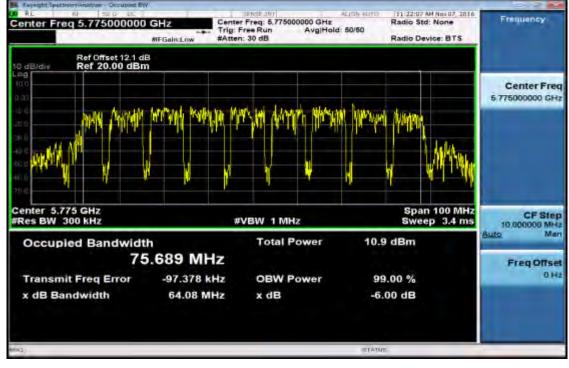
pearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law



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



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



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MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 9.

Standard Applicable 9.1

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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Note: 5.15-5.25G Antenna1 Gain: -0.12 dBi Antenna2 Gain: -0.97 dBi Number Antenna: 2 pcs Directional gain = gain of antenna element + 10 log (# of TX antenna elements) Effective Legacy Gain (dBi) = 2.89 dBi Note: 5.25-5.35G Antenna1 Gain: 0.68 dBi Antenna2 Gain: -0.63 dBi Number Antenna: 2 pcs Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = 3.69 dBi

Note: 5.47-5.725G Antenna1 Gain: 0.53 dBi Antenna2 Gain: -0.99 dBi Number Antenna: 2 pcs Directional gain = gain of antenna element + 10 log (# of TX antenna elements) Effective Legacy Gain (dBi) = 3.54 dBi

9.2 Measurement Procedure

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

Note: For the overlapped channels between U-NII-2C and U-NII-3, and according to FCC KDB 644545 D03 the power is computed based on the portion of the emission bandwidth contained within that band. This rule is only applicable for those channels marked as overlapped.

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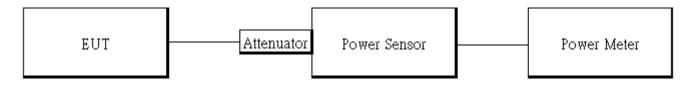
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9.3 Measurement Equipment Used

	Conducte	ed Emission ⁻	Test Site		
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
ТҮРЕ		NUMBER	NUMBER	CAL.	
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	00100A1F1A1 95C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	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)

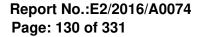
802.11a Main

СН	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	MCS0	13.44	22.080		23.98		PASS
44	5220	MCS0	13.39	21.827		23.98		PASS
48	5240	MCS0	13.47	22.233		23.98		PASS
52	5260	MCS0	13.36	21.677	23.98	or 11+10log(B) =	23.89	PASS
60	5300	MCS0	13.32	21.478	23.98	or 11+10log(B) =	24.03	PASS
64	5320	MCS0	13.33	21.528	23.98	or 11+10log(B) =	23.93	PASS
100	5500	MCS0	13.32	21.478	23.98	or 11+10log(B) =	24.02	PASS
116	5580	MCS0	13.33	21.528	23.98	or 11+10log(B) =	23.90	PASS
140	5700	MCS0	13.43	22.029	23.98	or 11+10log(B) =	24.02	PASS
149	5745	MCS0	13.48	22.284		30		PASS
157	5785	MCS0	13.36	21.677		30		PASS
165	5825	MCS0	13.42	21.979		30		PASS

802.11n_HT20_MIMO

СН	Frequency	Data		RAGE R (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(MHz)	Rate	CH 0	CH 1	(dBm)	(mW)		(dBm)		
36	5180	MCS8	13.44	13.28	16.37	43.361		23.98		PASS
44	5220	MCS8	13.42	13.33	16.39	43.506		23.98		PASS
48	5240	MCS8	13.47	13.33	16.41	43.761		23.98		PASS
52	5260	MCS8	13.46	13.27	16.38	43.414	23.98	or 11+10log(B) =	24.15	PASS
60	5300	MCS8	13.53	13.32	16.44	44.021	23.98	or 11+10log(B) =	24.16	PASS
64	5320	MCS8	13.51	13.14	16.34	43.045	23.98	or11+10log(B) =	24.27	PASS
100	5500	MCS8	13.54	13.32	16.44	44.073	23.98	or 11+10log(B) =	24.16	PASS
116	5580	MCS8	13.64	13.27	16.47	44.353	23.98	or 11+10log(B) =	23.98	PASS
140	5700	MCS8	13.66	13.21	16.45	44.168	23.98	or 11+10log(B) =	24.16	PASS
144(BAND3)	5720	MCS8	12.16	11.85	15.02	31.755	23.98	or 11+10log(B) =	24.06	PASS
144(BAND4)	5720	MCS8	1.4	1.4	4.41	2.761		30		PASS
149	5745	MCS8	13.51	13.33	16.43	43.967		30		PASS
157	5785	MCS8	13.52	13.31	16.43	43.919		30		PASS
165	5825	MCS8	13.62	13.24	16.44	44.101		30		PASS

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802.11n HT40 MIMO

СН	Frequency	Data	RAGE P	OWER (d	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
OII	(MHz)	Rate	CH 0	CH 1	(dBm)	(mW)			NESCET	
38	5190	MCS8	13.61	13.35	16.49	44.589		23.98		PASS
46	5230	MCS8	13.63	13.31	16.48	44.496		23.98		PASS
54	5270	MCS8	13.47	13.43	16.46	44.262	23.98	or11+10log(B) =	27.06	PASS
62	5310	MCS8	12.54	12.41	15.49	35.365	23.98	or 1 1+1 0log(B) =	27.20	PASS
102	5510	MCS8	12.91	12.65	15.79	37.951	23.98	or11+10log(B) =	27.26	PASS
110	5550	MCS8	13.52	13.4	16.47	44.368	23.98	or11+10log(B) =	26.99	PASS
134	5670	MCS8	13.46	13.34	16.41	43.759	23.98	or 1 1+1 0log(B) =	27.19	PASS
142(BAND3)	5710	MCS8	12.73	12.5	15.63	36.533	23.98	or11+10log(B) =	27.10	PASS
142(BAND4)	5710	MCS8	0.81	0.81	3.82	2.410		30		PASS
151	5755	MCS8	13.5	13.38	16.45	44.164		30		PASS
159	5795	MCS8	13.6	13.34	16.48	44.486		30		PASS

802.11ac_VHT20_MIMO

СН	Frequency	Frequency Data (MHz) Rate		1. O 11 En (abin)		TOTAL TOTAL POWER POWER		REQUIRED LIMIT		RESULT
	(IVIF1 <i>2)</i>	наце	CH 0	CH 1	(dBm)	(mW)		(dBm)		
36	5180	MCS8	13.61	13.03	16.34	43.052		23.98		PASS
44	5220	MCS8	13.58	13.11	16.36	43.268		23.98		PASS
48	5240	MCS8	13.62	13.09	16.37	43.385		23.98		PASS
52	5260	MCS8	13.62	13.04	16.35	43.152	23.98	or 1 1+1 0log(B) =	24.15	PASS
60	5300	MCS8	13.69	13.08	16.41	43.712	23.98	or 1 1+1 0log(B) =	24.16	PASS
64	5320	MCS8	13.67	12.91	16.32	42.824	23.98	or 11+10log(B) =	24.27	PASS
100	5500	MCS8	13.48	13.31	16.41	43.713	23.98	or 11+10log(B) =	24.16	PASS
116	5580	MCS8	13.81	13.05	16.46	44.227	23.98	or 1 1+1 0log(B) =	23.98	PASS
140	5700	MCS8	13.82	12.95	16.42	43.823	23.98	or 1 1+1 0log(B) =	24.16	PASS
1 4 9	5745	MCS8	13.87	12.88	16.41	43.787		30		PASS
157	5785	MCS8	13.88	12.86	16.41	43.754		30		PASS
165	5825	MCS8	13.98	12.81	16.44	44.102		30		PASS

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802.11ac_VHT40_MIMO

СН	Frequency Data (MHz) Rate				TOTAL POWER			REQUIRED LIMIT		RESULT
	(MHZ)	Rate	CH 0	CH 1	(dBm)	(mW)	(dBm)			
38	5190	MCS8	13.42	13.01	16.23	41.977		23.98		PASS
46	5230	MCS8	13.46	12.99	16.24	42.089		23.98		PASS
54	5270	MCS8	13.31	13.08	16.21	41.752	23.98	or 11+10log(B) =	27.06	PASS
62	5310	MCS8	12.37	12.08	15.24	33.402	23.98	or 11+10log(B) =	27.20	PASS
102	5510	MCS8	12.75	12.29	15.54	35.780	23.98	or 11+10log(B) =	27.26	PASS
110	5550	MCS8	13.35	13.08	16.23	41.951	23.98	or11+10log(B) =	26.99	PASS
134	5670	MCS8	13.29	12.99	16.15	41.237	23.98	or 11+10log(B) =	27.19	PASS
151	5755	MCS8	13.33	13.02	16.19	41.573		30		PASS
159	5795	MCS8	13.41	12.99	16.22	41.835		30		PASS

802.11ac_VHT80_MIMO

СН	Frequency (MHz)	Data Rate		RAGE R (dBm)	TOTAL POWER	TOTAL POWER		REQUIRED LIMIT		RESULT
	(IVITIZ)	наце	CH 0	CH 1	(dBm)	(mW)	. ,			
42	5210	MCS8	13.58	13.35	16.48	44.431		23.98		PASS
58	5290	MCS8	9.95	9.94	12.96	19.748	23.98	or 11+10log(B) =	30.00	PASS
106	5530	MCS8	11.69	11.24	14.48	28.062	23.98	or 11+10log(B) =	29.87	PASS
122	5610	MCS8	13.53	13.38	16.47	44.319	23.98	or 11+10log(B) =	29.87	PASS
138(Band3)	5690	MCS8	13.08	12.79	15.95	39.334	23.98	or 11+10log(B) =	30.02	PASS
138(Band4)	5690	MCS8	0.51	0.51	3.52	2.249	30			PASS
155	5775	MCS8	13.58	13.27	16.44	44.036	30			PASS

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Conducted output power (IC)

802.11a Main

СН	Frequency (MHz)	TOTAL POWER (d Bm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	13.36	21.677	23.98	or 11+10log(B) =	23.12	PASS
60	5300	13.32	21.478	23.98	or $11 + 10 \log(B) =$	23.14	PASS
64	5320	13.33	21.528	23.98	or $11 + 10 \log(B) =$	23.17	PASS
100	5500	13.32	21.478	23.98	or 11+10log(B) =	23.13	PASS
116	5580	13.33	21.528	23.98	or 11+10log(B) =	23.16	PASS
140	5700	13.43	22.029	23.98	or 11+10log(B) =	23.12	PASS
149	5745	13.48	22.284		30		PASS
157	5785	13.36	21.677		30		PASS
165	5825	13.42	21.979		30		PASS

802.11n_HT20_MIMO

СН	Frequency (MHz)		RAGE R (dBm)	TOT AL POWER	TOT AL POWER		REQUIRED LIMIT		RESULT
	(10112)	CH 0	CH 1	(dBm)	(mW)		(dBm)		
52	5260	13.46	13.27	16.38	43.414	23.98	or 11+10log(B) =	23.46	PASS
60	5300	13.53	13.32	16.44	44.021	23.98	or 11+10log(B) =	23.47	PASS
64	5320	13.51	13.14	16.34	43.045	23.98	or 11+10log(B) =	23.50	PASS
100	5500	13.54	13.32	16.44	44.073	23.98	or 11+10log(B) =	23.48	PASS
116	5580	13.64	13.27	16.47	44.353	23.98	or 11+10log(B) =	23.45	PASS
140	5700	13.66	13.21	16.45	44.168	23.98	or 11+10log(B) =	23.47	PASS
144(BAND3)	5720	12.16	11.85	15.02	31.755	23.98	or 11+10log(B) =	22.72	PASS
144(BAND4)	5720	1.4	1.4	4.41	2.761		30		PASS
149	5745	13.51	13.33	16.43	43.967		30		PASS
157	5785	13.52	13.31	16.43	43.919		30		PASS
165	5825	13.62	13.24	16.44	44.101		30		PASS

802.11ac VHT20 MIMO

СН	Frequency (MHz)	AVEF POWEF CH 0	RAGE R (dBm) CH 1	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
52	5260	13.62	13.04	16.35	43.152	23.98	or 11+10log(B) =	23.46	PASS
60	5300	13.69	13.08	16.41	43.712	23.98	or 11+10log(B) =	23.47	PASS
64	5320	13.67	12.91	16.32	42.824	23.98	or 11+10log(B) =	23.50	PASS
100	5500	13.48	13.31	16.41	43.713	23.98	or 11+10log(B) =	23.48	PASS
116	5580	13.81	13.05	16.46	44.227	23.98	or 11+10log(B) =	23.45	PASS
140	5700	13.82	12.95	16.42	43.823	23.98	or 11+10log(B) =	23.47	PASS
149	5745	13.87	12.88	16.41	43.787		30		PASS
157	5785	13.88	12.86	16.41	43.754		30		PASS
165	5825	13.98	12.81	16.44	44.102		30		PASS

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802.11n_HT40_MIMO

СН	Frequency (MHz)		RAGE <u>R (dBm)</u> CH 1	TOTAL POWER (dBm)	TOTAL POWER (mW)		REQUIRED LIMIT (dBm)		RESULT
54	5270	13.47	13.43	16.46	44.262	23.98	or 11+10log(B) =	26.58	PASS
62	5310	12.54	12.41	15.49	35.365	23.98	or 11+10log(B) =	26.57	PASS
102	5510	12.91	12.65	15.79	37.951	23.98	or 11+10log(B) =	26.56	PASS
110	5550	13.52	13.4	16.47	44.368	23.98	or 11+10log(B) =	26.59	PASS
134	5670	13.46	13.34	16.41	43.759	23.98	or 11+10log(B) =	26.58	PASS
142(BAND3)	5710	0.81	0.81	3.82	2.410	23.98	or 11+10log(B) =	26.57	PASS
142(BAND4)	5710	13.5	13.38	16.45	44.164		30		PASS
151	5755	13.5	13.38	16.45	44.164		30		PASS
159	5795	13.6	13.34	16.48	44.486		30		PASS

802.11ac_VHT40_MIMO

СН	Frequency		RAGE R (dBm)	TOTAL	TOTAL POWER		REQUIRED LIMIT		RESULT
	(MHz)	CH 0	CH 1	(dBm)	(mW)		(dBm)		
54	5270	13.31	13.08	16.21	41.752	23.98	or 11+10log(B) =	26.58	PASS
62	5310	12.37	12.08	15.24	33.402	23.98	or 11+10log(B) =	26.57	PASS
102	5510	12.75	12.29	15.54	35.780	23.98	or 11+10log(B) =	26.56	PASS
110	5550	13.35	13.08	16.23	41.951	23.98	or 11+10log(B) =	26.59	PASS
134	5670	13.29	12.99	16.15	41.237	23.98	or 11+10log(B) =	26.58	PASS
151	5755	13.33	13.02	16.19	41.573		30		PASS
159	5795	13.41	12.99	16.22	41.835		30		PASS

802.11ac_VHT80_MIMO

СН	Frequency (MHz)	POWER		TOTAL POWER	TOTAL POWER		R EQUIRED LIMIT		RESULT
	(10112)	CH 0	CH 1	(dBm)	(mW)		(dBm)		
58	5290	9.95	9.94	12.96	19.748	23.98	or 11+10log(B) =	29.75	PASS
106	5530	11.69	11.24	14.48	28.062	23.98	or 11+10log(B) =	29.77	PASS
122	5610	13.53	13.38	16.47	44.319	23.98	or 11+10log(B) =	29.76	PASS
138(Band3)	5690	13.08	12.79	15.95	39.334	23.98	or 11+10log(B) =	29.76	PASS
138(Band4)	5690	0.51	0.51	3.52	2.249		30		PASS
155	5775	13.58	13.27	16.44	44.036		30		PASS

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EIRP

802.11a_Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	13.44	-0.120	13.32	21.478	23.01	or 10+10log(B)=	22.16	PASS
44	5220	13.39	-0.120	13.27	21.232	23.01	or 10+10log(B)=	22.15	PASS
48	5240	13.47	-0.120	13.35	21.627	23.01	or 10+10log(B)=	22.19	PASS
52	5260	13.36	0.680	14.04	25.351	30	or 17+10log(B)=	29.12	PASS
60	5300	13.32	0.680	14.00	25.119	30	or 17+10log(B)=	29.14	PASS
64	5320	13.33	0.680	14.01	25.177	30	or 17+10log(B)=	29.17	PASS
100	5500	13.32	0.530	13.85	24.266	30	or 17+10log(B)=	29.13	PASS
116	5580	13.33	0.530	13.86	24.322	30	or 17+10log(B)=	29.16	PASS
140	5700	13.43	0.530	13.96	24.889	30	or 17+10log(B)=	29.12	PASS

802.11n_HT20_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	16.37	2.890	19.26	84.354	23.01	or 10+10log(B)=	22.48	PASS
44	5220	16.39	2.890	19.28	84.636	23.01	or 10+10log(B)=	22.49	PASS
48	5240	16.41	2.890	19.30	85.131	23.01	or 10+10log(B)=	22.47	PASS
52	5260	16.38	3.690	20.07	101.539	30	or 17+10log(B)=	29.46	PASS
60	5300	16.44	3.690	20.13	102.957	30	or 17+10log(B)=	29.47	PASS
64	5320	16.34	3.690	20.03	100.676	30	or 17+10log(B)=	29.50	PASS
100	5500	16.44	3.540	19.98	99.579	30	or 17+10log(B)=	29.48	PASS
116	5580	16.47	3.540	20.01	100.213	30	or 17+10log(B)=	29.45	PASS
140	5700	16.45	3.540	19.99	99.796	30	or 17+10log(B)=	29.47	PASS
144 (BAND3)	5720	15.02	5.030	20.05	101.113	30	or 17+10log(B)=	28.72	PASS
144(BAND4)	5720	4.41	0.000	4.41	2.761		30		PASS

802.11ac_VHT20_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
36	5180	16.34	2.890	19.23	83.752	23.01	or 10+10log(B)=	22.48	PASS
44	5220	16.36	2.890	19.25	84.172	23.01	or 10+10log(B)=	22.49	PASS
48	5240	16.37	2.890	19.26	84.399	23.01	or 10+10log(B)=	22.47	PASS
52	5260	16.35	3.690	20.04	100.925	30	or 17+10log(B)=	29.46	PASS
60	5300	16.41	3.690	20.10	102.235	30	or 17+10log(B)=	29.47	PASS
64	5320	16.32	3.690	20.01	100.159	30	or 17+10log(B)=	29.50	PASS
100	5500	16.41	3.540	19.95	98.767	30	or 17+10log(B)=	29.48	PASS
116	5580	16.46	3.540	20.00	99.929	30	or 17+10log(B)=	29.45	PASS
140	5700	16.42	3.540	19.96	99.016	30	or 17+10log(B)=	29.47	PASS

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802.11n_HT40_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	16.49	2.890	19.38	86.741	23.01	or 10+10log(B)=	25.58	PASS
46	5230	16.48	2.890	19.37	86.561	23.01	or 10+10log(B)=	25.57	PASS
54	5270	16.46	3.690	20.15	103.522	30	or 17+10log(B)=	25.58	PASS
62	5310	15.49	3.690	19.18	82.714	30	or 17+10log(B)=	25.57	PASS
102	5510	15.79	3.540	19.33	85.748	30	or 17+10log(B)=	25.56	PASS
110	5550	16.47	3.540	20.01	100.247	30	or 17+10log(B)=	25.59	PASS
134	5670	16.41	3.540	19.95	98.872	30	or 17+10log(B)=	25.58	PASS
142(Band3)	5710	15.63	3.540	19.17	82.543	30	or 17+10log(B)=	25.57	PASS
142(Band4)	5710	3.82	5.030	8.85	7.674		30		PASS

802.11ac_VHT40_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)		REQUIRED LIMIT (dBm)		RESULT
38	5190	16.23	2.890	19.12	81.661	23.01	or $10+10\log(B)=$	25.58	PASS
46	5230	16.24	2.890	19.13	81.878	23.01	or 10+10log(B)=	25.57	PASS
54	5270	16.21	3.690	19.90	97.652	30	or 17+10log(B)=	25.58	PASS
62	5310	15.24	3.690	18.93	78.122	30	or 17+10log(B)=	25.57	PASS
102	5510	15.54	3.540	19.08	80.842	30	or 17+10log(B)=	25.56	PASS
110	5550	16.23	3.540	19.77	94.785	30	or 17+10log(B)=	25.59	PASS
134	5670	16.15	3.540	19.69	93.173	30	or 17+10log(B)=	25.58	PASS

802.11ac_VHT80_MIMO

СН	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)			REQUIRED LIMIT (dBm)		RESULT
42	5210	16.48	2.890	19.37	86.434	23.01	or 10+10log(B)=	28.76	PASS
58	5290	12.96	3.690	16.65	46.188	30.00	or 17+10log(B)=	28.75	PASS
106	5530	14.48	3.540	18.02	63.403	30	or 17+10log(B)=	28.77	PASS

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