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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E AND REQUIREMENT

Max-Stream AC600 Wi-Fi Micro USB **Product Name:**

Adapter

LINKSYS **Brand Name:**

Model No.: **WUSB6100M**

Model Difference: N/A

FCC ID: Q87-WUSB6100M

Report No.: E2/2016/20042

Issue Date: Mar. 17, 2016

FCC Rule Part: §15.407

Linksys LLC Prepared for:

121 Theory Drive, Irvine, CA 92617, USA

SGS Taiwan Ltd.

Electronics & Communication Laboratory Prepared by:

No.2, Keji 1st Rd., Guishan District,

Taoyuan City, Taiwan 333





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VERIFICATION OF COMPLIANCE

Applicant: Linksys LLC

121 Theory Drive, Irvine, CA 92617, USA

Product Name: Max-Stream AC600 Wi-Fi Micro USB Adapter

Brand Name: LINKSYS

Model No.: WUSB6100M

Model Difference: N/A

FCC ID: Q87-WUSB6100M

File Number: E2/2016/20042

Date of test: Feb. 26, 2016 ~ Mar. 17, 2016

Date of EUT Received: Feb. 26, 2016

We hereby certify that:

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

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

Test By: Date: Mar. 17, 2016

Jerry Lu / Sr. Engineer

Prepared By: Mar. 17, 2016

Tiffany Kao / Clerk

Approved By: Mar. 17, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/20042	Rev.00	Initial creation of document	Mar. 17, 2016

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GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Max-Stream AC600 Wi-Fi Micro USB Adapter	
Brand Name:	LINKSYS	
Model No.:	WUSB6100M	
Model Difference:	N/A	
Product SW/HW version:	N/A / N/A	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	5.0Vdc from USB Port	

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology	
11a	5150~5250	50~5250 4 19.56 dBm (Avg.)		OFDM	
l IIa	5725-5850	5	17.56 dBm	OFDM	
11n / ac_20M	HT20 / VHT20 5150~5250	4	VHT: 19.61 dBm (Avg.) (Worst Case)	OFDM	
	HT20 / VHT20 5725-5850	5	VHT: 17.70 dBm (Worst Case)		
11n / ac_40M	HT40 / VHT40 5150~5250	2	VHT: 19.51 dBm (Avg.) (Worst Case)	OFDM	
	HT40 / VHT40 5725-5850	2	HT: 17.84dBm (Worst Case)	01 2111	



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11ac_80M	VHT80 5150~5250	1	16.12 dBm (Avg.)	OFDM
	VHT80 5725-5850	1	15.03 dBm (Avg.)	G. S
Antenna Designation		Metal Antenna, Supplier: INPAQ 5GHz Gain: 2.38dBi (5150MHz-5250MHz) 5GHz Gain: 2.39dBi (5725MHz-5850MHz)		
Modulation type		64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only		
Transition Rate:		802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 - 72.2Mbps 802.11 n_40MHz: 13.5 - 150Mbps 802.11 ac_20MHz: 6.5 -86.7Mbps 802.11 ac_40MHz: 13.5 -200Mbps 802.11 ac_80MHz: 29.3 - 433Mbps		

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11bgn feature, and below is details of information

below is details of information.			
Product Feature			
Product Name: Max-Stream AC600 Wi-Fi Micro USB Adapter			
Brand Name:	LINKSYS		
Model No.:	WUSB6100M		
Model Difference:	N/A		
FCC ID:	Q87-WUSB6100M		
Wi-Fi- Specification	802.11a/b/g/n/ac		

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

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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 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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 hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example For all conducted test items:

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

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.2dB, and 10dB at-

offset = RF cable loss (dB)+ attenuation factor(dB)=11.2(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

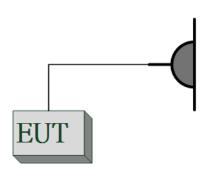


Fig. 2- 2 AC Power Line Conducted Emission & Conducted Emission

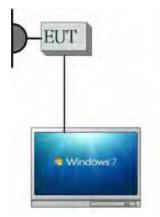


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-YYG88	shield	Un-shield

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SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.407(g)	Frequency Stability	Compliant
§15.203 §15.407(a)	Antenna Requirement	Compliant



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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 5725 MHz ~5850 MHz:

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

NADIATED EMISSION TEST.									
	RADIATED EMISSION TEST (BELOW 1 GHz)								
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11a	5180~5240	36 to 48	44	OFDM	6	MAIN			
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN			
	RADI	ATED EMISS	SION TEST (A	BOVE 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11a	5180~5240	36 to 48	26 44 40	OFDM	6	MAIN			
802.11n_VHT20	5160~5240	30 10 40	36,44,48	OFDM	MCS0	MAIN			
802.11n_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN			
802.11a	5745 5005 440 1. 40	140 to 165	140 457 405	OFDM	6	MAIN			
802.11n_VHT20	5745~5825	149 to 165	149,157,165	OFDM	MCS0	MAIN			
802.11n_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN			
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN			

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

ANTENNA I ON CONDUCTED MEASONEMENT.									
	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	MCS0	MAIN			
802.11ac_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN			
802.11ac_VHT80	1ac_VHT80 5210 42 42		OFDM	MCS0	MAIN				
802.11a)2.11a		OFDM	6	MAIN				
802.11ac_HT20 802.11ac_VHT20	5745~5825	149 to 165	149,157,165	OFDM	MCS0	MAIN			
802.11ac_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN			
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN			

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MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

	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

6.1. Standard Applicable

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

Frequency range	Limits 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

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2. Measurement Equipment Used

Conducted Emission Test Site									
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
EMI Test Receiver	R&S	ESCI 3	101311	06/18/2015	06/17/2016				
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2016	02/06/2017				
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016				
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2016	03/03/2017				
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.				

6.3. EUT Setup

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

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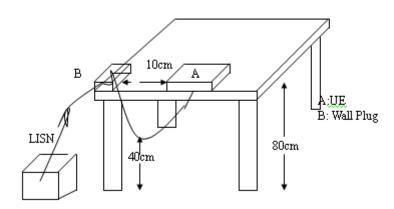
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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: Operation mode Test Date: Mar. 15, 2016

Temperature: 21

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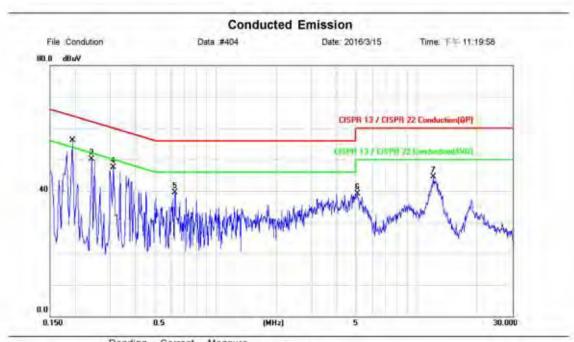
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Temperature: 23 Site Conduction Room Phase: N AC 120V/60Hz Humidity: 41 % Limit CISPR 13 / CISPR 22 Conduction(QP) Power. Mode Note:



No.	Mk.	Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1940	35.42	19.56	54.98	63.86	-8.88	QP	
2		0.1940	16.45	19.56	36.01	53.86	-17.85	AVG	
3		0.2420	30.56	19.60	50.16	62.03	-11.87	peak	
4		0.3100	27.81	19.65	47.46	59.97	-12.51	peak	
5		0.6300	19.79	19.80	39.59	56.00	-16.41	peak	
6	4	5.0740	19.23	19.79	39.02	60.00	-20,98	peak	
7	4. 1	12.1380	24.66	19.85	44.51	60.00	-15.49	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 Cycle
802.11a	93.99	0.27
802.11ac_20	95.02	0.22
802.11ac_40	90.66	0.43
802.11ac_80	82.12	0.86

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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11ac VHT20



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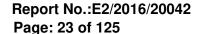
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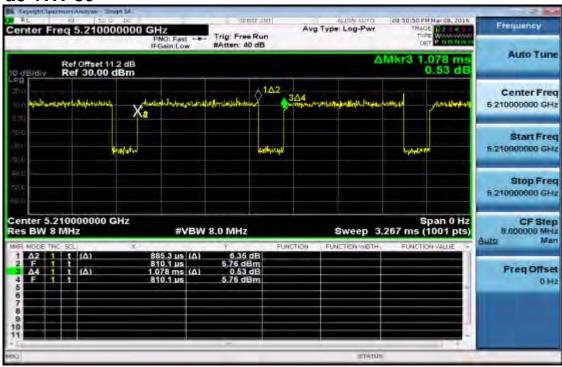
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802.11ac VHT 40



802.11 ac VHT 80



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

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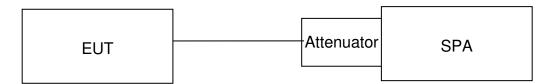


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Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1	RF01	12/12/2015	12/11/2016
Coaxiai Cable Sociii	WOREN	95C	nru i	12/12/2013	12/11/2010
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
O a little in	DELAMBAD	RFLT2W1G1	DEGE	10/10/0015	10/11/0010
Splitter	RF-LAMBAD	8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
Temperature Cham-	TEDOLIV	MUIIC 100U IC	1000500	00/00/0045	00/00/0040
ber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016

8.4 Test Set-up



8.5 Measurement Result 26dB Bandwidth

802.11a Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	29.86	14.751
5220	28.77	14.590
5240	29.94	14.763

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802.11ac VHT20 Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	29.41	14.686
5220	29.50	14.698
5240	29.28	14.665

802.11ac VHT40 Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	45.68	16.597
5230	49.95	16.986

802.11ac VHT80 Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	86.97	19.393

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6dB Bandwidth (5725 MHz~ 5850 MHz)

802.11a Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.59	11.929
5785	15.13	11.798
5825	14.74	11.684

802.11ac VHT20 Main

<u> </u>			
Frequency	6dB Bandwidth	10 Log (B)	
(MHz)	(MHz)	(dB)	
5745	16.58	12.196	
5785	17.56	12.446	
5825	15.96	12.031	

802.11ac VHT40 Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	32.57	15.129
5795	32.63	15.136

802.11ac VHT80 Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	73.93	18.688

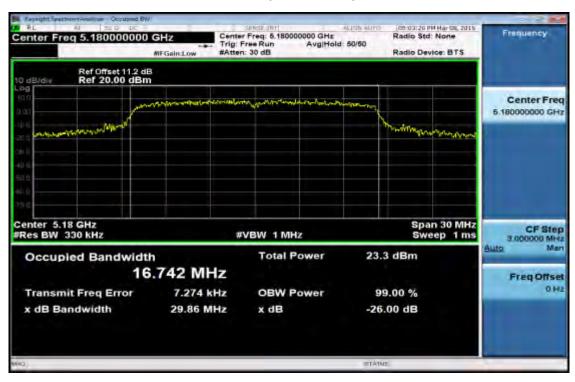
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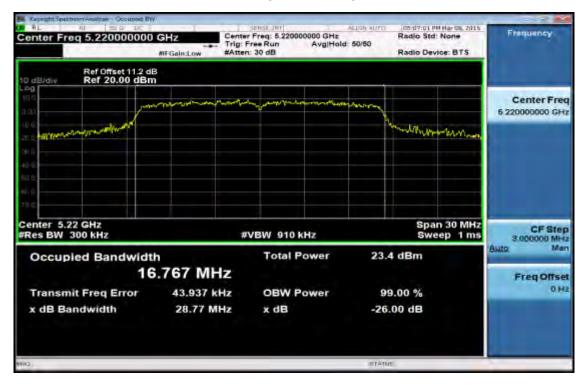


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802.11a, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5180MHz)



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



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



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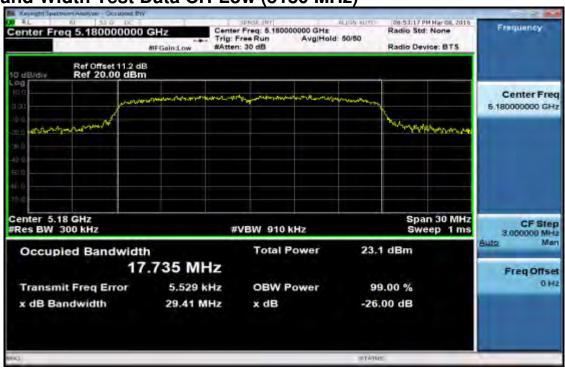
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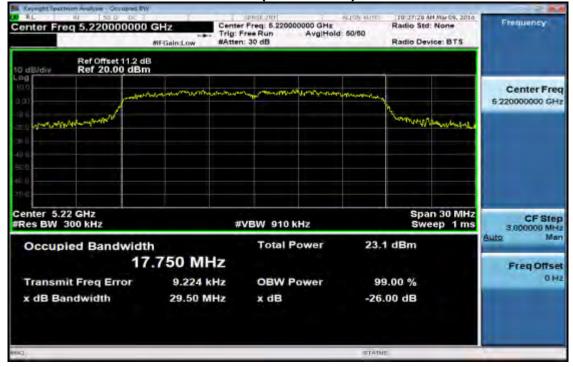


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802.11ac VHT20, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5180 MHz)



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



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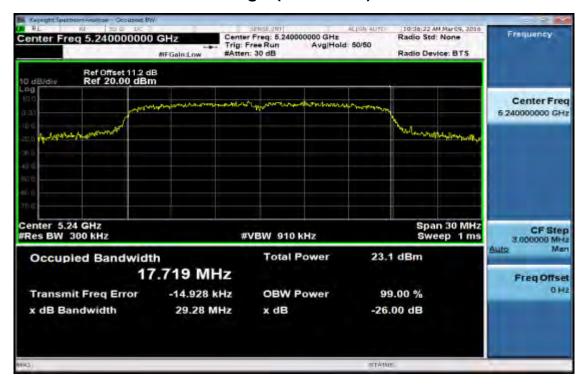
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26dB Band Width Test Data CH-High (5240 MHz)



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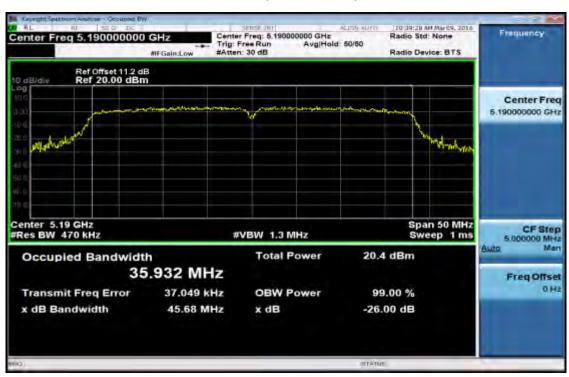
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802.11ac VHT40, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5190 MHz)



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



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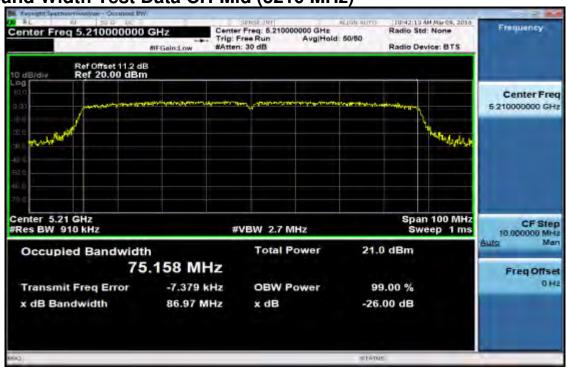
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802.11ac VHT80, 5150~5250 MHz 26dB Band Width Test Data CH-Mid (5210 MHz)



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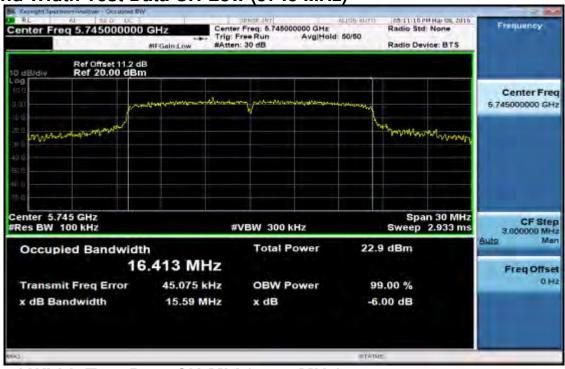
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6dB Band Width measure 802.11a, 5725~5850 MHz

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



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



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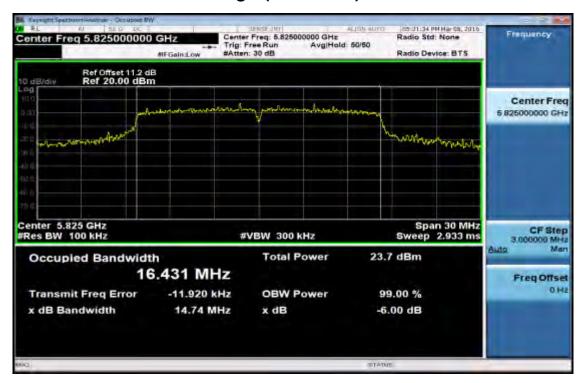
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6dB Band Width Test Data CH-High (5825 MHz)



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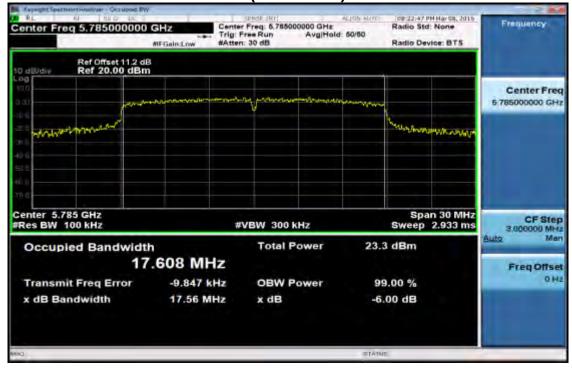


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802.11ac VHT20, 5725~5850 MHz 6dB Band Width Test Data CH-Low (5745 MHz)



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



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



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802.11ac VHT40, 5725~5850 MHz 6dB Band Width Test Data CH-Low (5755 MHz)



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



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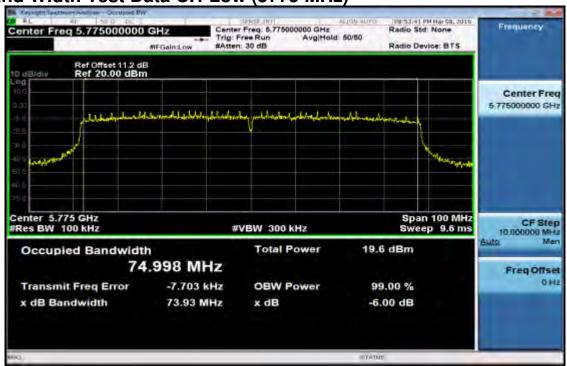
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802.11ac VHT80, 5725~5850 MHz 6dB Band Width Test Data CH-Low (5775 MHz)



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MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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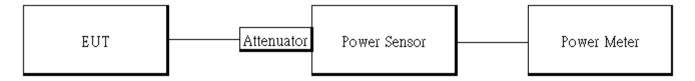
9.2 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- Remove the antenna from the EUT and then connect a low loss RF cable from the an-3. tenna port 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).
- Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

	Conducted Emission Test Site								
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016				
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016				
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016				
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016				
Coaxial Cable 30cm	WOKEN	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				
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016				

9.4 Test Set-up



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Measurement Result

Conducted output power

802.11a Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.2	83.176	23.98	PASS
44	5220	19.56	90.365	23.98	PASS
48	5240	19.25	84.140	23.98	PASS
149	5745	17.56	57.016	30	PASS
157	5785	17.47	55.847	30	PASS
165	5825	17.32	53.951	30	PASS

802.11n HT20 Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.28	84.723	23.98	PASS
44	5220	19.55	90.157	23.98	PASS
48	5240	19.27	84.528	23.98	PASS
149	5745	17.7	58.884	30	PASS
157	5785	17.31	53.827	30	PASS
165	5825	17.38	54.702	30	PASS

802.11ac VHT20 Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	19.3	85.114	23.98	PASS
44	5220	19.61	91.411	23.98	PASS
48	5240	19.31	85.310	23.98	PASS
149	5745	17.7	58.884	30	PASS
157	5785	17.39	54.828	30	PASS
165	5825	17.42	55.208	30	PASS

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802.11n HT40 Main

СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	16.73	47.098	23.98	PASS
46	5230	19.39	86.896	23.98	PASS
151	5755	15	31.623	30	PASS
159	5795	17.8	60.256	30	PASS

802.11ac VHT40 Main

	<u> </u>						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT		
38	5190	16.8	47.863	23.98	PASS		
46	5230	19.51	89.331	23.98	PASS		
151	5755	15.01	31.696	30	PASS		
159	5795	17.84	60.814	30	PASS		

802 11ac VHT80 Main

002:11ac_v11100_waiii						
СН	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT	
42	5210	16.12	40.926	23.98	PASS	
155	5775	15.03	31.842	30	PASS	

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

OPERZTION Band	EUT CATEGORY	LIMIT
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U-NII-1

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10.2 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 4. For U-NII1, U-NII-2A, U-NII-2C Band:

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

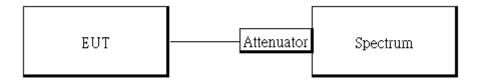
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth. Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

- 5. User the cursor on spectrum to peak search the highest level of trace
- 6. Record the max. reading and add 10 log(1/duty cycle).
- 7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

10.3 Measurement Equipment Used

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

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE								
Frequency	Duty Factor	Reading	PPSD	Limit	Margin			
(MHz)	(dB)	(dBm)	(dBm)	(dBm)	(dB)			
5180	0.27	6.63	6.90	11	-4.10			
5220	0.27	5.26	5.53	11	-5.47			
5240	0.27	4.29	4.56	11	-6.44			
5745	0.27	9.73	10.00	30	-20.00			
5785	0.27	10.30	10.57	30	-19.43			
5825	0.27	9.52	9.79	30	-20.21			

	POWER DENSITY 802.11ac VHT20 MODE								
Frequency	Duty Factor	Reading	PPSD	Limit	Margin				
(MHz)	(dB)	(dBm)	(dBm)	(dBm)	(dB)				
5180	0.22	1.94	2.16	11	-8.84				
5220	0.22	4.92	5.14	11	-5.86				
5240	0.22	3.57	3.79	11	-7.21				
5745	0.22	9.55	9.77	30	-20.23				
5785	0.22	9.61	9.83	30	-20.17				
5825	0.22	9.79	10.01	30	-19.99				

POWER DENSITY 802.11ac VHT40 MODE											
Frequency Duty Factor Reading PPSD Limit Margin											
(MHz)	(dB)	(dBm)	(dBm)	(dBm)	(dB)						
5190	0.43	-1.31	-0.88	11	-11.88						
5230	0.43	0.71	1.14	11	-9.86						
5755	0.43	3.05	3.48	30	-26.52						
5795	0.43	5.92	6.35	30	-23.65						

POWER DENSITY 802.11ac VHT80 MODE										
Frequency	Duty Factor	Reading	PPSD	Limit	Margin					
(MHz)	(dB)	(dBm)	(dBm)	(dBm)	(dB)					
5210	0.86	-9.67	-8.81	11	-19.81					
5775	0.86	-0.23	0.63	30	-29.37					

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802.11a 5150~5250 MHz

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



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



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



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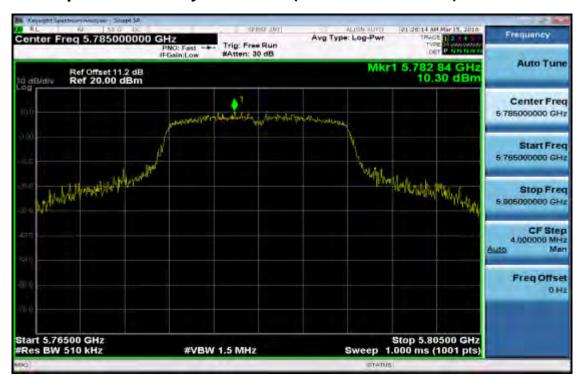
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802.11a 5725~5850 MHz

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



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



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



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802.11ac VHT20, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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



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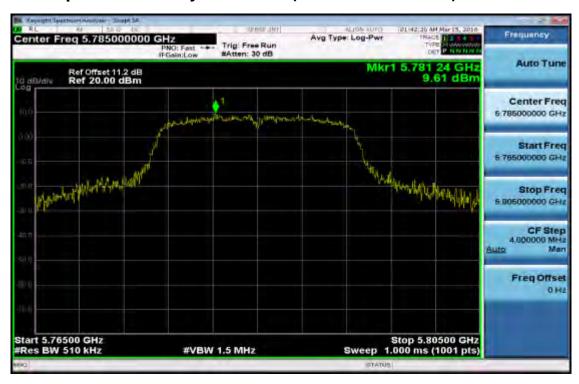
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802.11n HT20, 5725~5850 MHz

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



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



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



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802.11ac VHT40, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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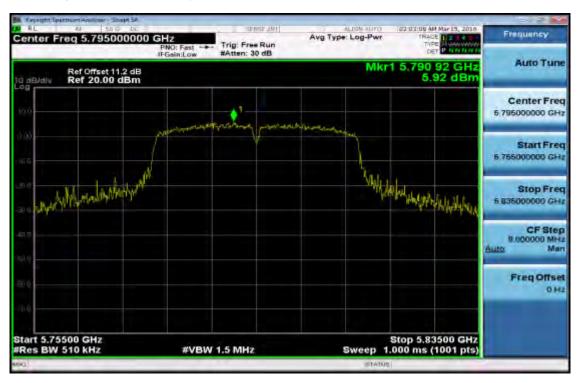


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802.11n HT40, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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



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802.11ac VHT80, 5150~5250 MHz Peak Power Spectral Density Data Plot (CH, Mid 5210 MHz)



802.11ac VHT80, 5725~5850 MHz

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



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- 1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- 2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- 3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- 4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

APPLICABLE TO	LII	MIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRE	NGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)	
APPLICABLE TO	EIRP LIMIT FIELD STRENGT 3m		
15.407(b)(1)			
15.407(b)(2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)	
15.407(b)(3)			
15.407(b)(4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)	

 $EIRP = ((E*d)^2) / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

1011 tablet	
Field strength (microvolts/meter)	Distance (meters)
2400/F(KHz)	300
24000/F(KHz)	30
30	30
100	3
150	3
200	3
500	3
	Field strength (microvolts/meter) 2400/F(KHz) 24000/F(KHz) 30 100 150 200

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016					
Loop Antenna	ETS-Lindgren	6502	143303	12/23/2015	12/22/2016					
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016					
Horn Antenna	ETS-Lindgren	3117	143272	12/16/2015	12/15/2016					
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016					
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016					
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016					
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	RG 214/U+SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016					
Coaxial Cable	Huber+Suhner	mini 141-12+SUCOFLE X 104	966Rx 18G-40G	12/12/2015	12/11/2016					
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016					
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016					
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016					
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.					
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.					
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.					
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.					

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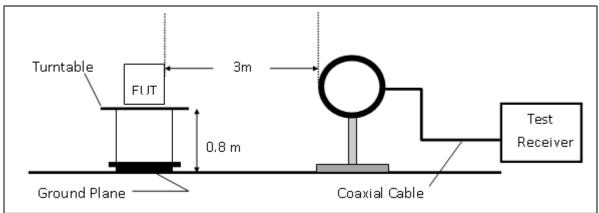
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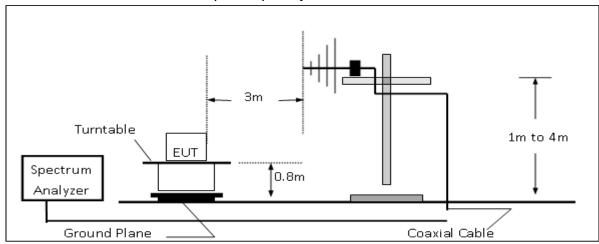
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11.3 Test SET-UP

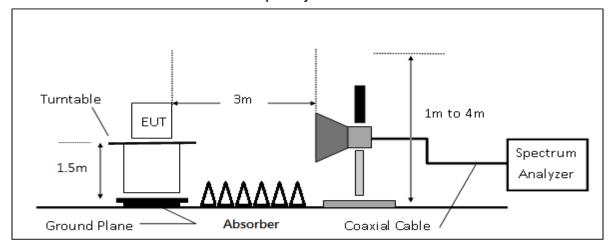
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

- The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
- The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequen-3. cy> 1GHz above ground plane.
- 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 emissions.
- Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) 6. and Quasi-peak (QP) at frequency below 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency 7. above 1 GHz.
- Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 11. Repeat above procedures until all frequency measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre Amplifier Gain(dB)

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Note:

"F": denotes Fundamental Frequency.; "H": denotes Harmonic Frequency.

"E": denotes Band Edge Frequency.; "S": denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 **Measurement Result**

Refer to attach tabular data sheets.

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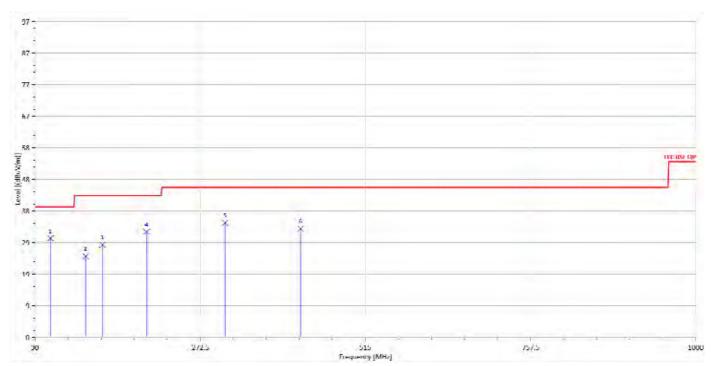
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Radiated Spurious Emission Measurement Result Below 1GHz Worst-Case Data: 802.11a 5150~5250 MHz

Operation Mode: 802.11a Test Date: 2016/3/16

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
53.28	S	Peak	50.88	-20.53	30.36	40	-9.64
104.69	S	Peak	42.10	-17.17	24.93	43.5	-18.57
128.94	S	Peak	44.00	-15.62	28.37	43.5	-15.13
193.93	S	Peak	50.34	-17.94	32.39	43.5	-11.11
309.36	S	Peak	47.79	-12.62	35.18	46	-10.82
419.94	S	Peak	42.46	-9.10	33.37	46	-12.63

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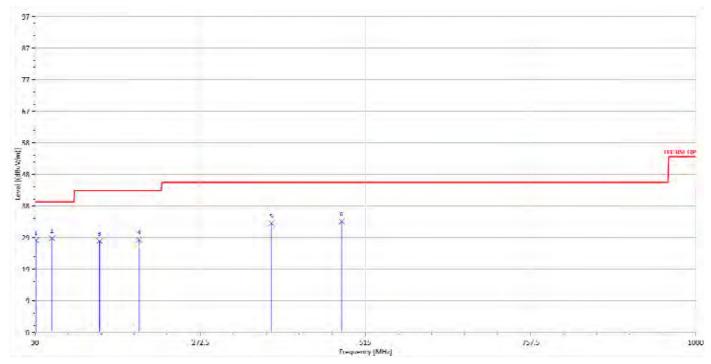


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Operation Mode: 802.11a Test Date: 2016/3/16

Fundamental Frequency: Temp. / Humi.: 5220 MHz 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	36.43	-8.22	28.21	40	-11.79
55.22	S	Peak	50.04	-21.25	28.80	40	-11.20
125.06	S	Peak	43.63	-15.68	27.95	43.5	-15.55
183.26	S	Peak	46.86	-18.51	28.34	43.5	-15.16
377.26	S	Peak	43.96	-10.47	33.49	46	-12.51
480.08	S	Peak	41.88	-7.81	34.07	46	-11.93

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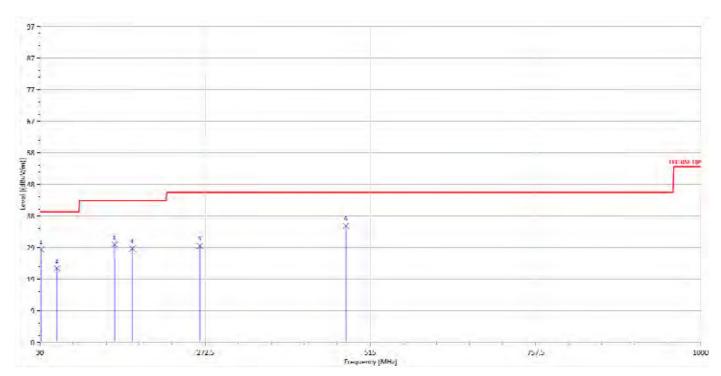
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802.11a, 5725~5850 MHz

Operation Mode: 802.11a Test Date: 2016/3/16

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
31.94	S	Peak	36.69	-8.22	28.47	40	-11.53
55.22	S	QP	44.01	-21.25	22.76	40	-17.24
139.61	S	Peak	46.01	-16.02	29.99	43.5	-13.51
165.80	S	Peak	46.66	-17.92	28.74	43.5	-14.76
264.74	S	Peak	43.29	-13.76	29.54	46	-16.46
479.11	S	Peak	43.57	-7.76	35.81	46	-10.19

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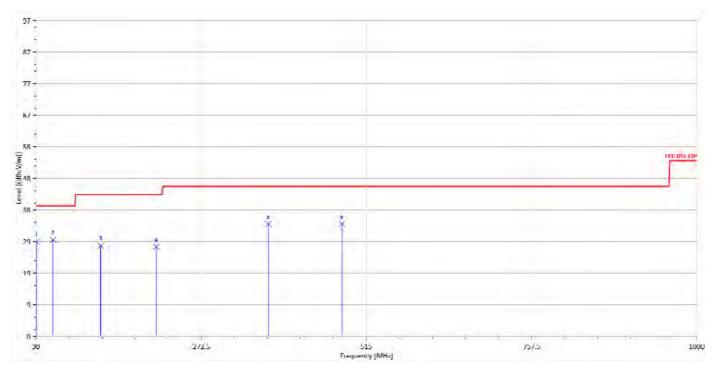


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Operation Mode: 802.11a Test Date: 2016/3/16

Fundamental Frequency: Temp. / Humi.: 5785 MHz 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
30.97	S	Peak	36.74	-7.70	29.04	40	-10.96
55.22	S	Peak	50.78	-21.25	29.53	40	-10.47
125.06	S	Peak	43.51	-15.68	27.83	43.5	-15.67
206.54	S	Peak	44.66	-17.25	27.40	43.5	-16.10
371.44	S	Peak	45.23	-10.70	34.54	46	-11.46
479.11	S	Peak	42.27	-7.76	34.51	46	-11.49

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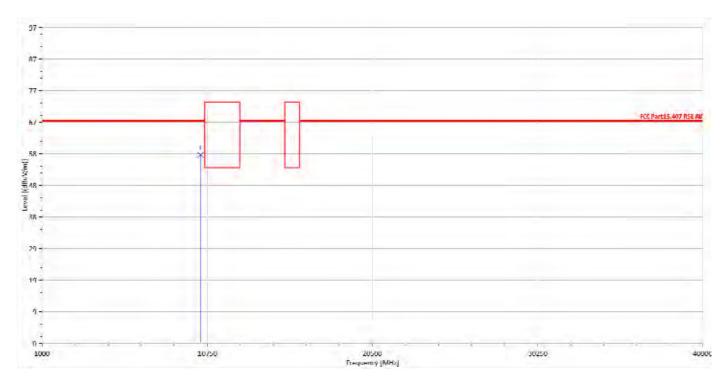
Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	Н	Peak	40.21	17.62	57.83	68.3	-10.47

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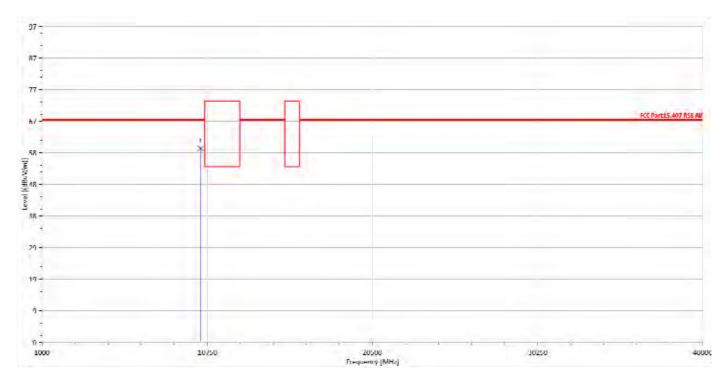


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Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 5180 MHz 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1	0360.00	Н	Peak	41.91	17.62	59.53	68.3	-8.77

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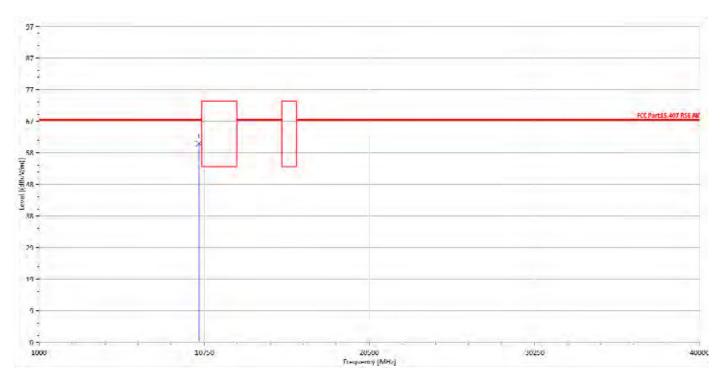


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Operation Mode: 802.11a Test Date: 2016/3/8

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5220 MHz

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10	440.00	Н	Peak	43.34	17.65	61.00	68.3	-7.30

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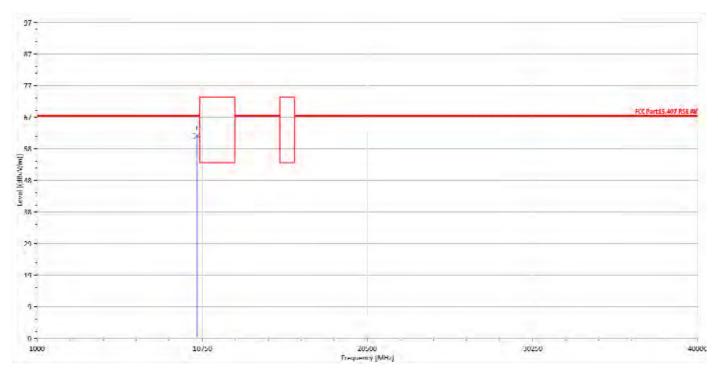


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Operation Mode: 802.11a Test Date: 2016/3/8

Fundamental Frequency: Temp. / Humi.: 5220 MHz 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	10440 00	Н	Peak	44 52	17.65	62.17	68.3	-6 13

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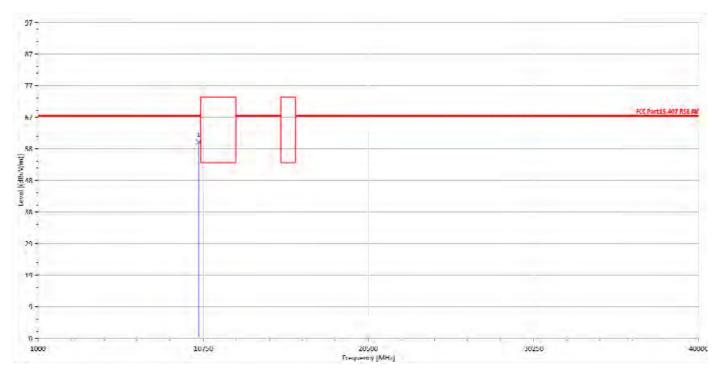


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Operation Mode: Test Date: 802.11a 2016/3/15

Fundamental Frequency: Temp. / Humi. : 5240 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
•	10480.00	Н	Peak	42.27	18.00	60.27	68.3	-8.03

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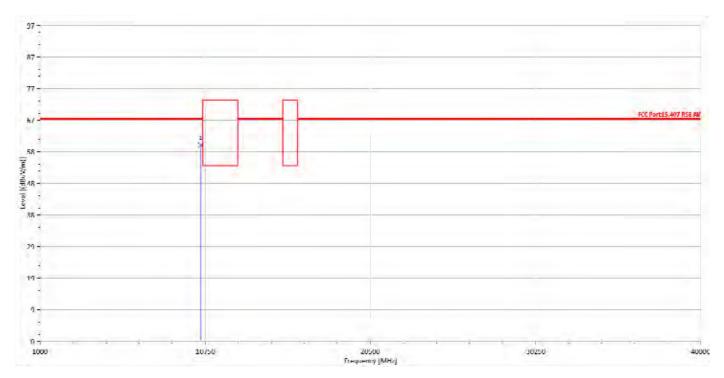


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Operation Mode: Test Date: 802.11a 2016/3/15

Fundamental Frequency: Temp. / Humi. : 5240 MHz 22.7deg C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	Н	Peak	42.29	18.00	60.29	68.3	-8.01

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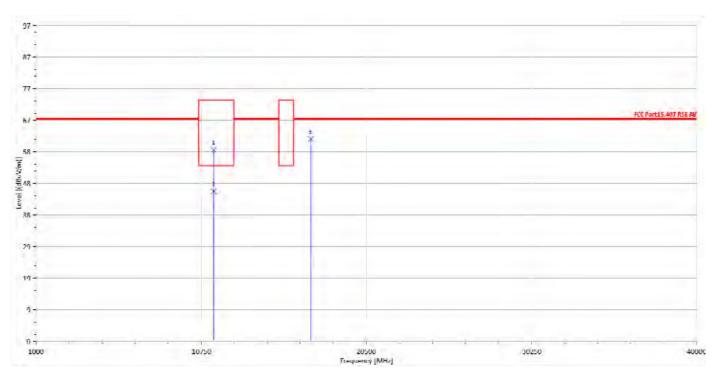
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	40.38	18.39	58.77	74	-15.23
11490.00	Н	Average	27.62	18.39	46.01	54	-7.99
17235.00	Н	Peak	34.30	27.84	62.14	68.3	-6.16

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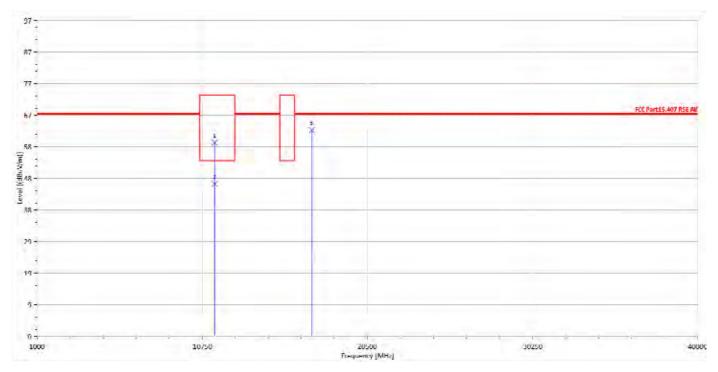


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Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 5745 MHz 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	41.09	18.39	59.47	74	-14.53
11490.00	Н	Average	28.38	18.39	46.77	54	-7.23
17235.00	Н	Peak	35.44	27.84	63.28	68.3	-5.02

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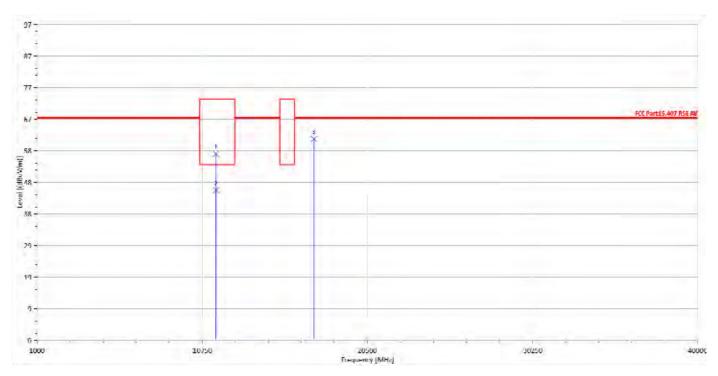


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Operation Mode: 802.11a Test Date: 2016/3/8

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5785 MHz

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	37.82	19.38	57.20	74	-16.80
11570.00	Н	Average	26.71	19.38	46.09	54	-7.91
17355.00	Н	Peak	34.92	26.92	61.83	68.3	-6.47

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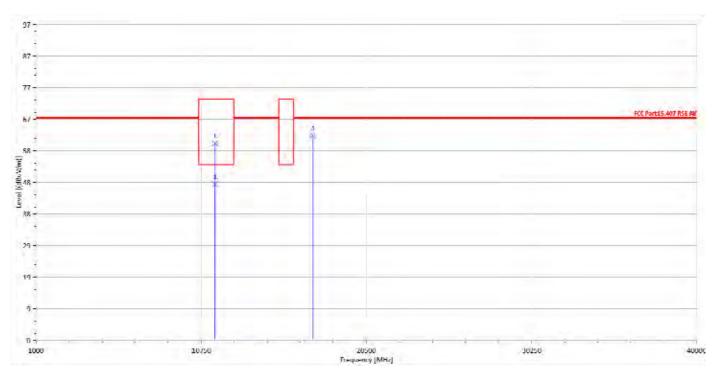


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Operation Mode: 802.11a Test Date: 2016/3/8

Fundamental Frequency: Temp. / Humi.: 5785 MHz 22.7deg_C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	41.06	19.38	60.44	74	-13.56
11570.00	Н	Average	28.58	19.38	47.96	54	-6.04
17355.00	Н	Peak	35.96	26.92	62.88	68.3	-5.42

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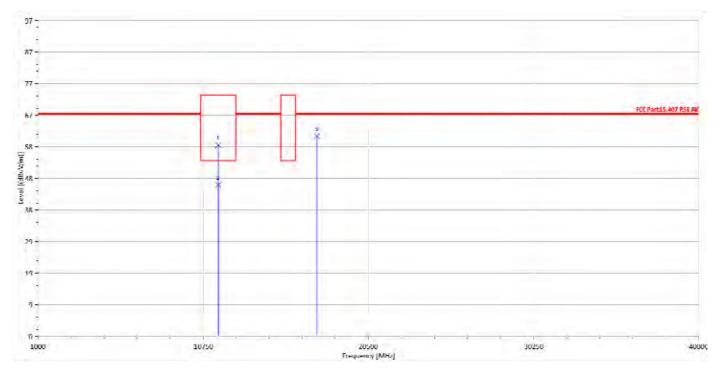


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Operation Mode: Test Date: 802.11a 2016/3/15

Fundamental Frequency: Temp. / Humi. : 5825 MHz 22.7deg_C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	38.42	20.23	58.65	74	-15.35
11650.00	Н	Average	26.22	20.23	46.45	54	-7.55
17475.00	Н	Peak	33.36	28.08	61.44	68.3	-6.86

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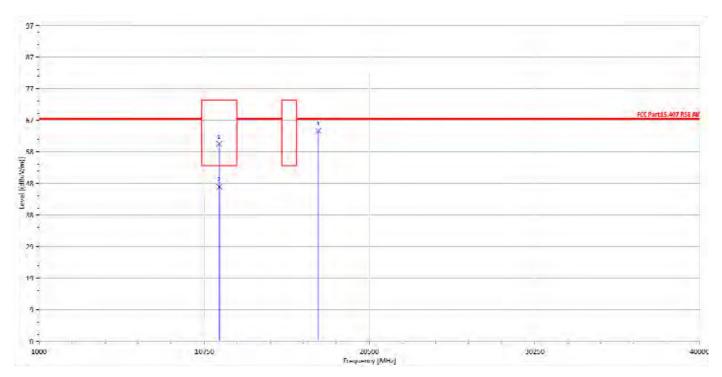


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Operation Mode: Test Date: 802.11a 2016/3/15

Fundamental Frequency: Temp. / Humi. : 5825 MHz 22.7deg C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	40.44	20.23	60.67	74	-13.33
11650.00	Н	Average	27.23	20.23	47.46	54	-6.54
17490.00	Н	Peak	37.30	27.39	64.69	68.3	-3.61

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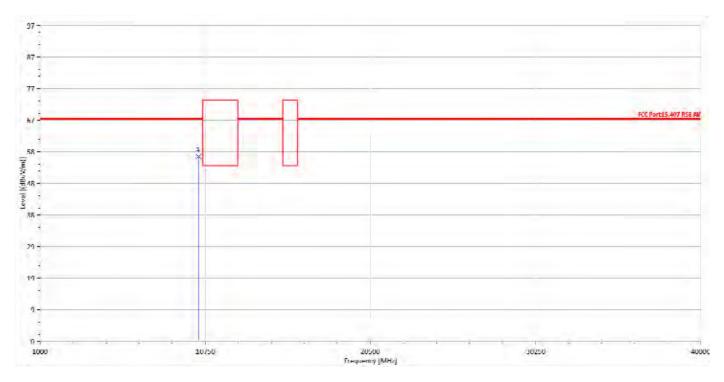
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10360.00	Н	Peak	39.07	17.62	56.68	68.3	-11.62

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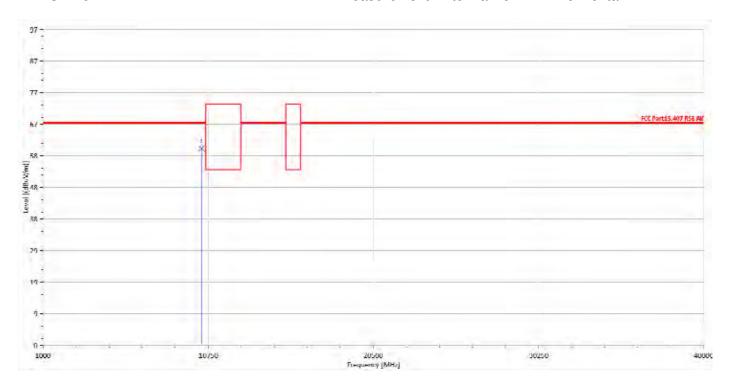


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00) H	Peak	42.86	17.62	60.48	68.3	-7.82

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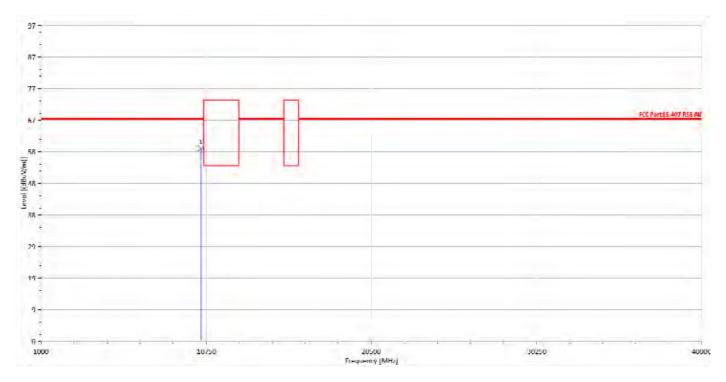


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Operation Mode: 802.11ac20 Test Date: 2016/3/8

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
_	10440.00	Н	Peak	41.50	17.65	59.15	68.3	-9.15

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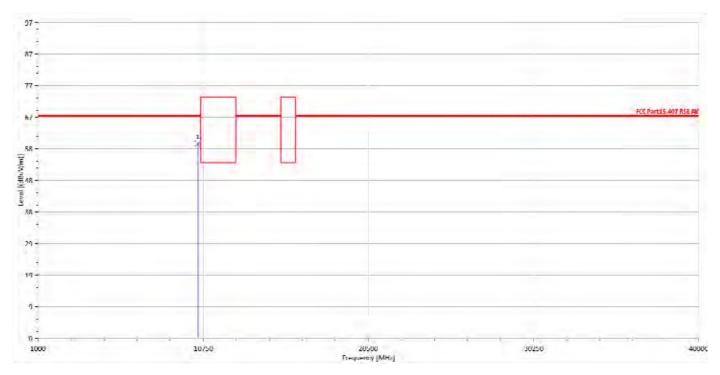


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Operation Mode: 802.11ac20 Test Date: 2016/3/8

Fundamental Frequency: 5220 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10440.00	Н	Peak	42.10	17.65	59.76	68.3	-8.54

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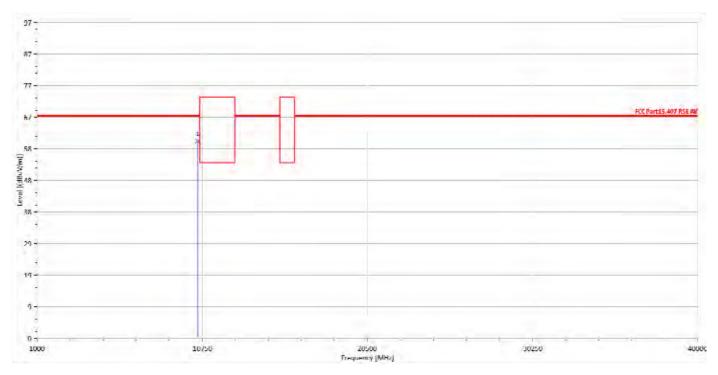


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBμV/m	dBµV/m	dB
10480.00	Н	Peak	42.54	18.00	60.54	68.3	-7.76

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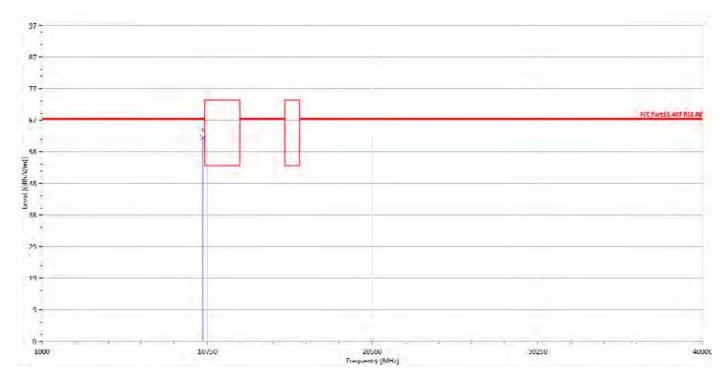


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5240 MHz

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



F	req.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
1	ИHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
104	480.00	Н	Peak	44.58	18.00	62.58	68.3	-5.72

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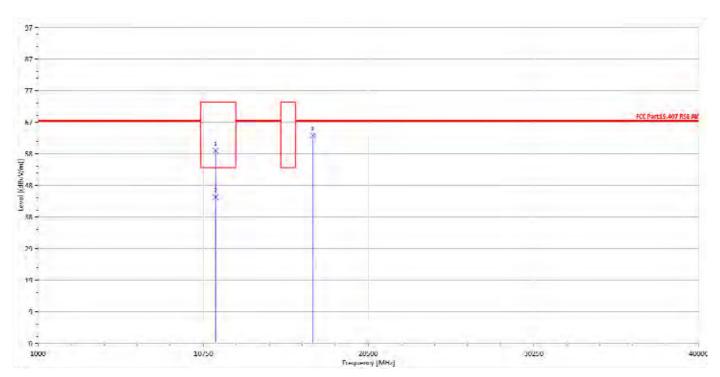
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 22.7deg_C/57RH 5745 MHz Temp. / Humi.:

Operation Band: Tx CH Low Ashton Test Engineer: EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	40.76	18.39	59.14	74	-14.86
11490.00	Н	Average	26.42	18.39	44.81	54	-9.19
17235.00	Н	Peak	63.85	27.84	63.85	68.3	-4.45

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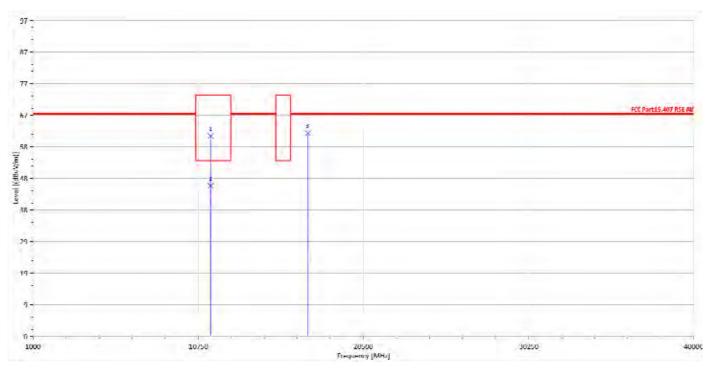


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBµV/m	dBµV/m	dB
11490.00	Н	Peak	43.12	18.39	61.51	74	-12.49
11490.00	Н	Average	27.79	18.39	46.18	54	-7.82
17235.00	Н	Peak	34.58	27.84	62.42	68.3	-5.88

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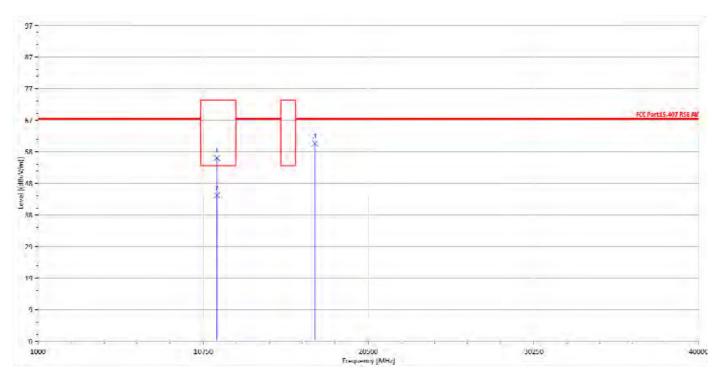


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Operation Mode: 802.11ac20 Test Date: 2016/3/8

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	36.86	19.38	56.24	74	-17.76
11570.00	Н	Average	25.44	19.38	44.82	54	-9.18
17355.00	Н	Peak	33.82	26.92	60.74	68.3	-7.56

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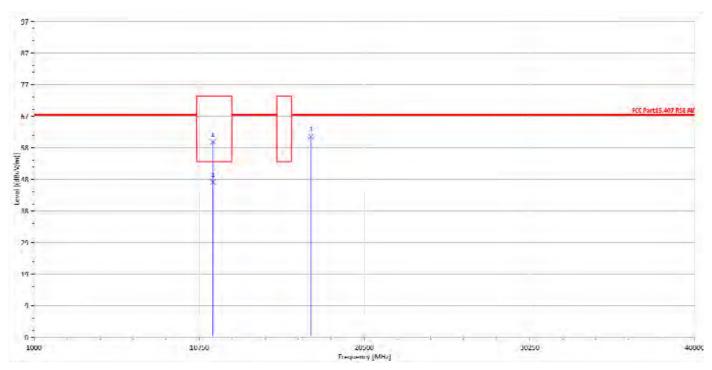


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Operation Mode: 802.11ac20 Test Date: 2016/3/8

Fundamental Frequency: 5785 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Mid Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11570.00	Н	Peak	40.61	19.38	59.99	74	-14.01
11570.00	Н	Average	28.31	19.38	47.69	54	-6.31
17355.00	Н	Peak	34.73	26.92	61.64	68.3	-6.66

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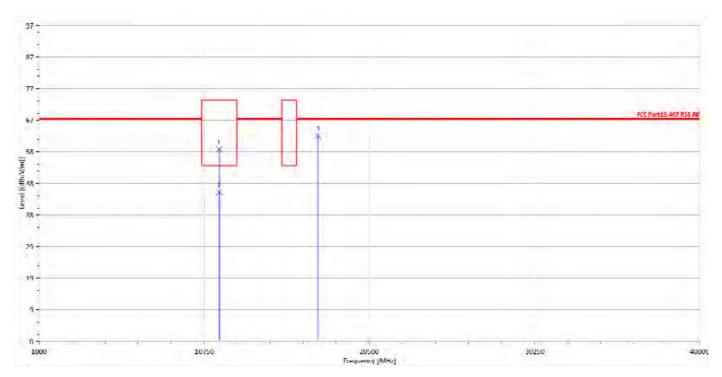


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	38.68	20.23	58.91	74	-15.09
11650.00	Н	Average	25.51	20.23	45.74	54	-8.26
17475.00	Н	Peak	35.05	28.08	63.13	68.3	-5.17

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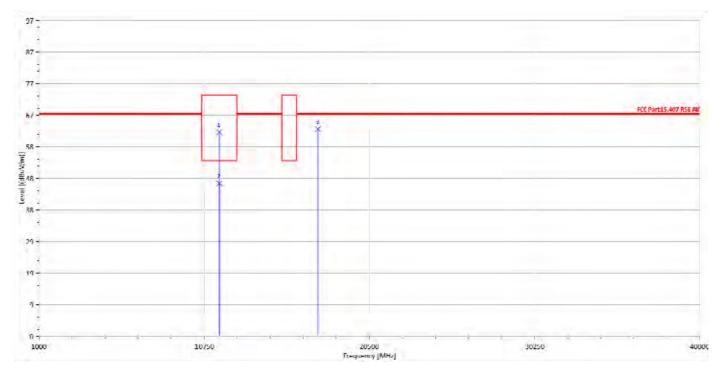


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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11650.00	Н	Peak	42.46	20.23	62.69	74	-11.31
11650.00	Н	Average	26.73	20.23	46.96	54	-7.04
17475.00	Н	Peak	35.56	28.08	63.63	68.3	-4.67

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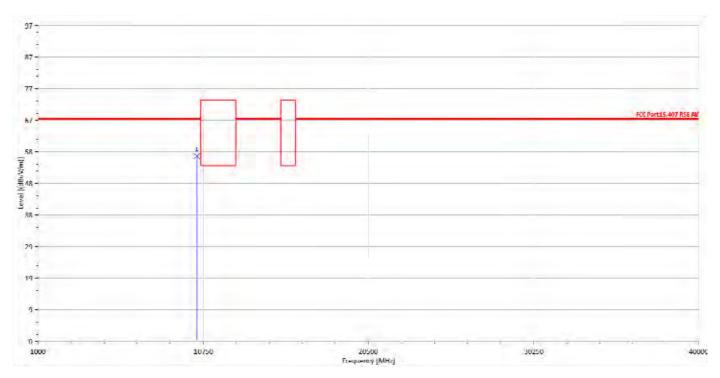
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode: 802.11ac40 Test Date: 2016/3/8

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10380.00	Н	Peak	38.39	18.37	56.76	68.3	-11.54

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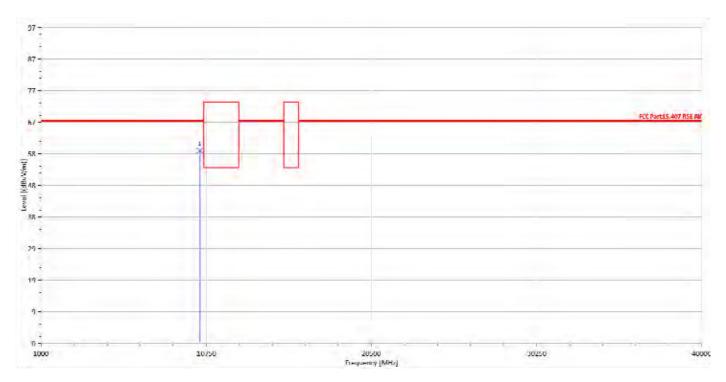


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Operation Mode: 802.11ac40 Test Date: 2016/3/8

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.0	00 H	Peak	40.73	18.37	59.10	68.3	-9.20

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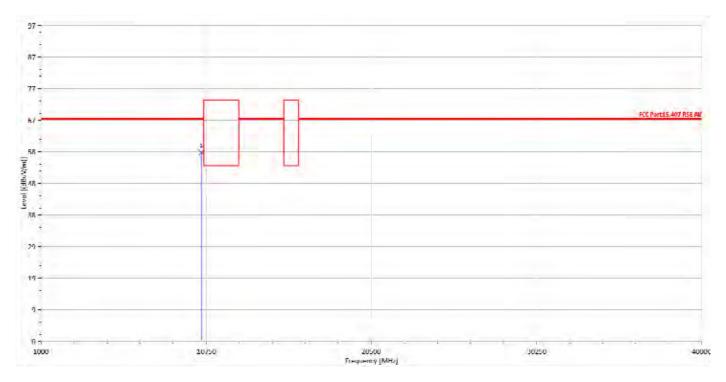


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Operation Mode: Test Date: 802.11ac40 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5230 MHz

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	Н	Peak	39.64	18.29	57.93	68.3	-10.37

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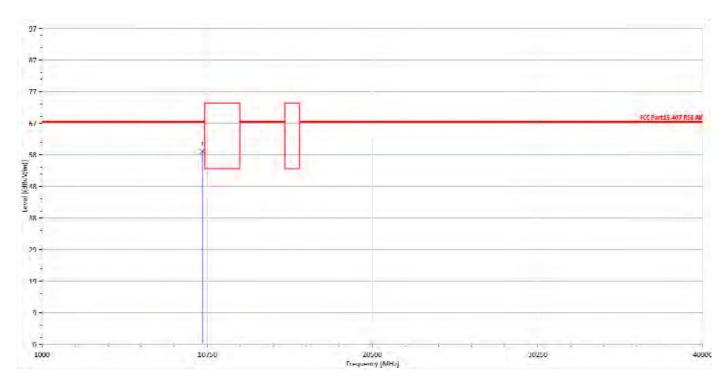


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Operation Mode: Test Date: 802.11ac40 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5230 MHz

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.0	0 H	Peak	40.90	18.29	59.20	68.3	-9.10

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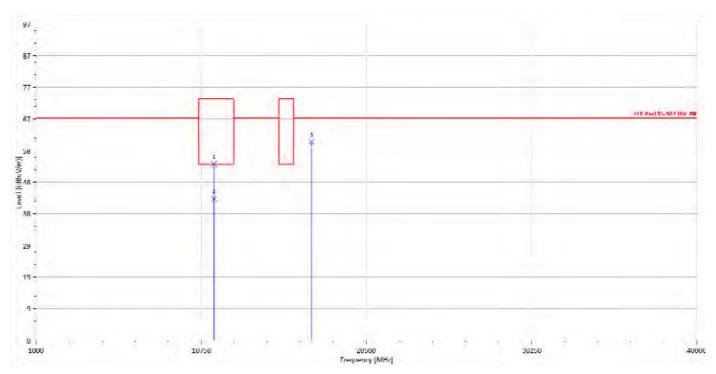
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode: 802.11ac40 Test Date: 2016/3/8

Fundamental Frequency: 22.7deg_C/57RH 5755 MHz Temp. / Humi.:

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical



Freq.	Note	De tector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
		WOUE	neading Level		13	woiii	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11510.00	Н	Peak	34.25	19.90	54.14	74	-19.86
11510.00	Н	Average	23.61	19.90	43.51	54	-10.49
17265.00	Н	Peak	33.13	27.69	60.82	68.3	-7.48

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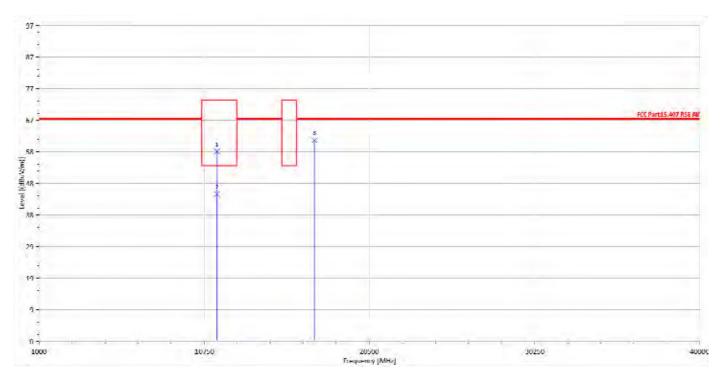


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Operation Mode: Test Date: 802.11ac40 2016/3/8

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11510.00	Н	Peak	38.37	19.90	58.27	74	-15.73
11510.00	Н	Average	25.30	19.90	45.20	54	-8.80
17265.00	Н	Peak	34.06	27.69	61.75	68.3	-6.55

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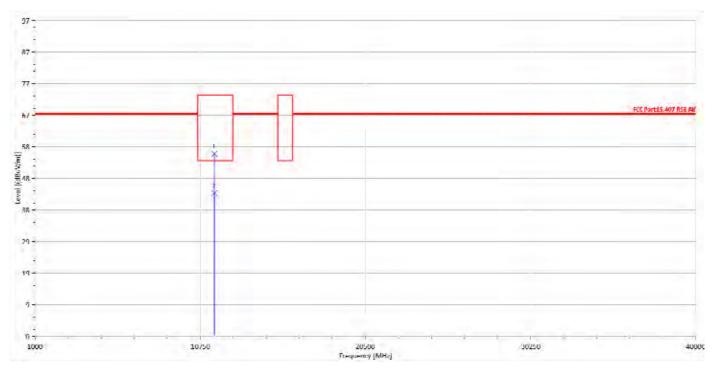


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Operation Mode: Test Date: 802.11ac40 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5795 MHz

Operation Band: Tx CH High Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11590.00	Н	Peak	36.16	19.85	56.01	74	-17.99
11590.00	Н	Average	24.11	19.85	43.96	54	-10.04

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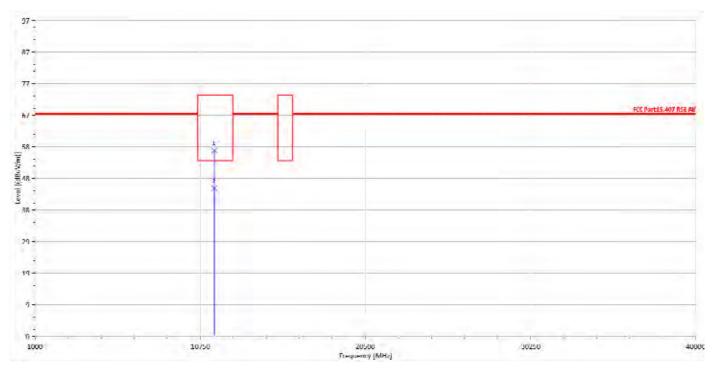


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Operation Mode: Test Date: 802.11ac40 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5795 MHz

Operation Band: Tx CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11590.00	Н	Peak	37.14	19.85	56.99	74	-17.01
11590.00	Н	Average	25.63	19.85	45.48	54	-8.52

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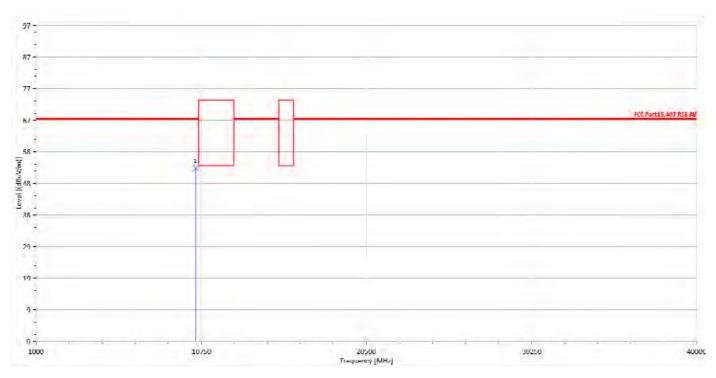
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode: 802.11ac80 Test Date: 2016/3/8

Fundamental Frequency: 5210 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : E2 Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
10420.00	Н	Peak	35.14	18.05	53.18	68.3	-15.12

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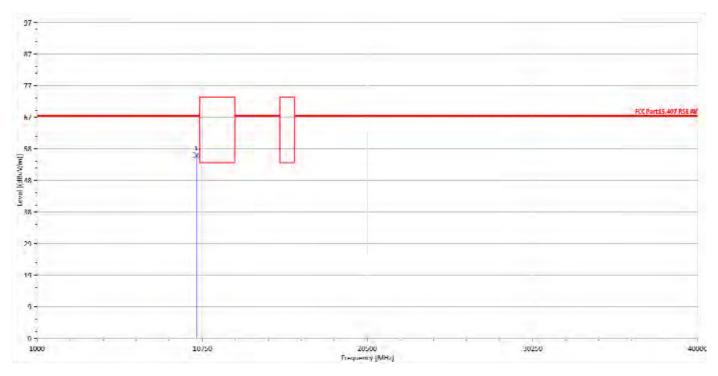


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Operation Mode: 802.11ac80 Test Date: 2016/3/8

Fundamental Frequency: 5210 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: Tx CH Low Test Engineer: **Ashton** EUT Pol.: E2 Measurement Antenna Pol.: Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dΒμV/m	dBµV/m	dB
10420 00	Н	Peak	38 14	18.05	56 19	68.3	-12.11

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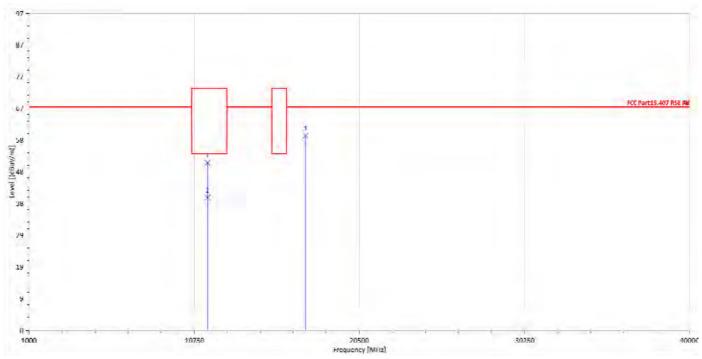
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode: 802.11ac80 Test Date: 2016/3/8

Fundamental Frequency: 5775 MHz Temp. / Humi. : 22.7deg_C/57RH

Operation Band: Test Engineer: Tx CH Low Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical



Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11550.00	Н	Peak	31.98	19.28	51.26	74	-22.74
11550.00	Н	Average	21.31	19.28	40.59	54	-13.41
17325.00	Н	Peak	31.72	27.69	59.41	68.3	-8.89

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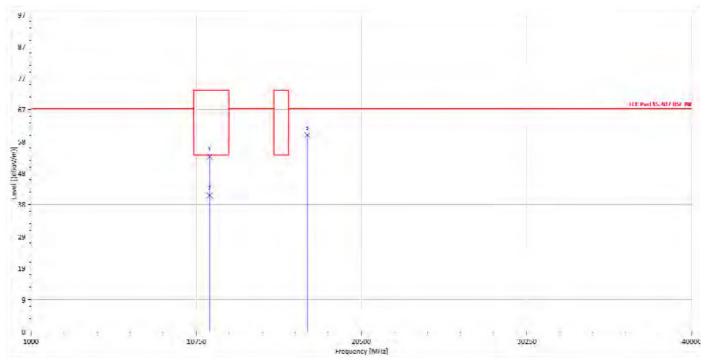


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Operation Mode: 802.11ac80 Test Date: 2016/3/8

Fundamental Frequency: 5775 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Tx CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
11550.00	Н	Peak	34.23	19.28	53.51	74	-20.49
11550.00	Н	Average	22.40	19.28	41.68	54	-12.32
17325.00	Н	Peak	32.51	27.69	60.20	68.3	-8.10

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Band edge falling to restricted band 802.11a mode

Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg_C/57RH 5180 MHz

Operation Band: Test Engineer: Ashton BE CH Low EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	44.77	10.78	55.55	74	-18.45
5150.00	F	Average	30.40	10.78	41.18	54	-12.82

Operation Mode: 802.11a Test Date: 2016/3/5

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: Test Engineer: BE CH Low Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	50.86	10.78	61.64	74	-12.36
5150.00	Ε	Average	35.94	10.78	46.72	54	-7.28

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Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5240 MHz

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	42.08	11.67	53.75	74	-20.25
5350.00	Е	Average	28.93	11.67	40.60	54	-13.40

Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	42.98	11.67	54.66	74	-19.34
5350.00	E	Average	32.08	11.67	43.75	54	-10.25

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Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : Vertical E2

Freq. Note Detector Spectum Factor Actual Limit Margin Reading Level FS Mode @3m PK/QP/AV dBµV dBµV/m F/H/E/S dΒ dBµV/m 5725.00 59.98 71.99 78.2 Peak

Operation Mode: 802.11a Test Date: 2016/3/5

Fundamental Frequency: Temp. / Humi.: 5745 MHz 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5724.70	S	Peak	64.45	12.01	76.46	78.2	-1.74
5725.00	Е	Peak	64.01	12.01	76.02	78.2	-2.18

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Operation Mode: 802.11a Test Date: 2016/3/15

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	Е	Peak	47.65	12.15	59.80	78.2	-18.40
5850.60	S	Peak	51.16	12.16	63.32	78.2	-14.88

Operation Mode: Test Date: 2016/3/15 802.11a

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	46.58	12.15	58.73	78.2	-19.47

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802.11ac VHT20 mode

Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5180 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol. : Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5149.00	S	Peak	48.36	10.77	59.14	74	-14.86
5149.00	S	Average	33.42	10.77	44.19	54	-9.81
5150.00	E	Peak	45.78	10.78	56.57	74	-17.43
5150.00	Е	Average	33.66	10.78	44.44	54	-9.56

Operation Mode: Test Date: 2016/3/4 802.11ac20

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5180 MHz

Operation Band: Test Engineer: Ashton BE CH Low EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.76	S	Peak	51.73	10.77	62.51	74	-11.49
5148.76	S	Average	37.05	10.77	47.82	54	-6.18
5150.00	E	Peak	51.00	10.78	61.78	74	-12.22
5150.00	Е	Average	37.61	10.78	48.39	54	-5.61

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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	43.07	11.67	54.74	74	-19.26
5350.00	Е	Average	29.06	11.67	40.73	54	-13.27

Operation Mode: 802.11ac20 Test Date: 2016/3/4

Fundamental Frequency: 5240 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB	
5350.00	Е	Peak	43.23	11.67	54.91	74	-19.09	
5350.00	E	Average	32.09	11.67	43.76	54	-10.24	

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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5745 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq. Note Detector Spectum Factor Actual Limit Margin Reading Level Mode FS @3m PK/QP/AV dBµV dBµV/m F/H/E/S dΒ dBµV/m 5725.00 58.90 70.91 78.2 Peak

Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 5745 MHz 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5725.00	E	Peak	58.28	12.01	70.29	78.2	-7.91

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Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5825 MHz

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Spectum Freq. Note Detector Factor Actual Limit Margin Reading Level Mode FS @3m PK/QP/AV dBµV dBµV/m dBµV/m MHz F/H/E/S dB dB 50.03 5850.00 Peak 12.15 62.18 78.2 -16.02

Operation Mode: 802.11ac20 Test Date: 2016/3/15

Fundamental Frequency: 5825 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal

	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
-	5850.00	F	Peak	52.26	12.15	64.41	78.2	-13.79

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802.11ac VHT40 mode

Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: 5190 MHz Temp. / Humi.: 22.7deg_C/57RH

Ashton Operation Band: BE CH Low Test Engineer: EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	53.82	10.78	64.60	74	-9.40
5150.00	F	Average	37 44	10.78	48.22	54	-5.78

Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 5190 MHz 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: **Ashton** EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5150.00	E	Peak	57.69	10.78	68.47	74	-5.53
5150.00	Е	Average	42.03	10.78	52.81	54	-1.19

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Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5230 MHz

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	Е	Peak	44.41	11.67	56.09	74	-17.91
5350.00	E	Average	30.68	11.67	42.35	54	-11.65

Operation Mode: Test Date: 2016/3/15 802.11ac40

Fundamental Frequency: 5230 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol. : E2 Horizontal

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5350.00	E	Peak	48.07	11.67	59.75	74	-14.25
5350.00	Е	Average	34.44	11.67	46.11	54	-7.89

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Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol. : Measurement Antenna Pol. : Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5714.70	S	Peak	54.29	11.97	66.26	68.3	-2.04
5720.40	S	Peak	64.97	11.99	76.97	78.2	-1.23
5725.00	E	Peak	61.32	12.01	73.33	78.2	-4.87

Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: 5755 MHz Temp. / Humi.: 22.7deg_C/57RH

Ashton Operation Band: BE CH Low Test Engineer: EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5713.40	S	Peak	55.19	11.97	67.16	68.3	-1.14
5715.00	S	Peak	54.98	11.98	66.96	68.3	-1.34
5725.00	Е	Peak	60.51	12.01	72.52	78.2	-5.68

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Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: Temp. / Humi.: 22.7deg C/57RH 5795 MHz

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: E2 Measurement Antenna Pol.: Vertical

	Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
			Mode	Reading Level		FS	@3m	
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	5850.00	Е	Peak	49.38	12.15	61.53	78.2	-16.67
	5854.70	S	Peak	52.40	12.23	64.63	78.2	-13.57
	5862.50	S	Peak	51.20	12.36	63.56	68.3	-4.74

Operation Mode: 802.11ac40 Test Date: 2016/3/15

Fundamental Frequency: 5795 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: **Ashton** EUT Pol.: Measurement Antenna Pol.: Horizontal E2

	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	5850.00	E	Peak	55.40	12.15	67.55	78.2	-10.65
	5863.30	S	Peak	54.89	12.36	67.25	68.3	-1.05

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802.11ac80 VHT mode

Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5210 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol. : Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.60	S	Peak	54.61	10.77	65.38	74	-8.62
5148.60	S	Average	38.52	10.77	49.29	54	-4.71
5150.00	E	Peak	53.77	10.78	64.56	74	-9.44
5150.00	Е	Average	38.55	10.78	49.33	54	-4.67

Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5210 MHz Temp. / Humi.: 22.7deg C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Horizontal E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5148.80	S	Peak	58.38	10.77	69.16	74	-4.84
5148.80	S	Average	41.84	10.77	52.61	54	-1.39
5150.00	E	Peak	56.50	10.78	67.28	74	-6.72
5150.00	E	Average	41.96	10.78	52.74	54	-1.26

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Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5775 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH Low Test Engineer: Ashton EUT Pol. : Measurement Antenna Pol. : Vertical E2

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5699.10	S	Peak	54.80	12.18	66.98	68.3	-1.32
5718.10	S	Peak	60.05	11.99	72.04	78.2	-6.16
5725.00	Ε	Peak	52.01	12.01	64.02	78.2	-14.18

Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5775 MHz Temp. / Humi.: 22.7deg_C/57RH

Ashton Operation Band: BE CH Low Test Engineer: EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

Freq.	Note	Detector	Spectum	Factor	Actual	Limit	Margin
		Mode	Reading Level		FS	@3m	
MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
5713.10	S	Peak	55.07	11.97	67.04	68.3	-1.26
5724.90	S	Peak	60.68	12.01	72.69	78.2	-5.51
5725.00	Е	Peak	58.24	12.01	70.25	78.2	-7.95

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Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5775 MHz Temp. / Humi.: 22.7deg_C/57RH

Operation Band: BE CH High Test Engineer: Ashton EUT Pol.: Measurement Antenna Pol.: Vertical E2

Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB _u V	dB	dBµV/m	dBµV/m	dB
5850.00	E	Peak	53.72	12.15	65.87	78.2	-12.33
5850.12	S	Peak	57.49	12.15	69.64	78.2	-8.56
5870.04	S	Peak	53.88	12.31	66.20	68.3	-2.10

Operation Mode: 802.11ac80 Test Date: 2016/3/15

Fundamental Frequency: 5775 MHz Temp. / Humi.: 22.7deg_C/57RH

Ashton Operation Band: BE CH High Test Engineer: EUT Pol.: Measurement Antenna Pol.: E2 Horizontal

	Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
_	MHz	F/H/E/S	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
	5850.00	E	Peak	49.75	12.15	61.90	78.2	-16.30
	5860.44	S	Peak	54.90	12.34	67.24	68.3	-1.06

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

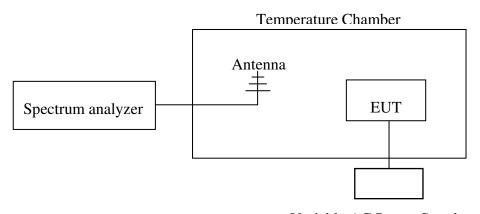
Standard Applicable 13.1

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



Variable AC Power Supply

13.4 Measurement Equipment Used

Conducted Emission Test Site							
EQUIPMENT	MED	MODEL	SERIAL	LAST	CAL DUE		
TYPE	MFR	NUMBER	NUMBER	CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016		
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016		
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016		

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13.5 **Measurement Result**

Operation Mode	802.11 a	Test Date	2016.3.8	
Temperature	:25			



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Operation Mode Test Date 2016.3.8 802.11 ac VHT40 :25 **Temperature**

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Operation Mode	802.11 ac VHT80	Test Date	2016.3.8
Temperature	:25		

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

A PIFA antenna design is used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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