

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name: Tablet Computer
Brand Name: acer
Marketing Name: A3-A30
Model No.: A5003
Model Difference: N/A
FCC ID: HLZA5003
Report No.: E2/2015/20019
Issue Date: Apr. 08, 2015
FCC Rule Part: §15.407
Prepared for: Acer Incorporated
8F., No.88, Sec. 1, Hsintai 5th Rd., Hsichih,
New Taipei City 22181, Taiwan (R.O.C.)
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Acer Incorporated
 8F., No.88, Sec. 1, Hsintai 5th Rd., Hsichih, New Taipei City 22181,
 Taiwan (R.O.C.)

Product Name: Tablet Computer

Brand Name: 

Marketing Name: A3-A30

Model No.: A5003

Model Difference: N/A

FCC ID: HLZA5003

File Number: E2/2015/20019

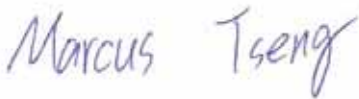
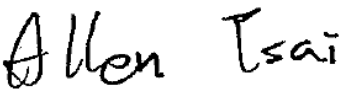

Date of test: Feb. 25, 2015 ~ Apr. 08, 2015

Date of EUT Received: Feb. 25, 2015

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:	Apr. 08, 2015
	_____ <i>Marcus Tseng / Engineer</i>		_____
Prepared By:		Date:	Apr. 08, 2015
	_____ <i>Allen Tsai / Engineer</i>		_____
Approved By:		Date:	Apr. 08, 2015
	_____ <i>Jim Chang / Asst. Manager</i>		_____

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/20019	Rev.00	Initial creation of document	Apr. 08, 2015

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Tablet Computer	
Brand Name:	<i>acer</i>	
Marketing Name:	A3-A30	
Model No.:	A5003	
Model Difference:	N/A	
Product SW/HW version:	Acer_AV0L0_A3-A30_RV01RZ01_WW_CUS1 / E0	
Radio SW/HW version:	1.5.1.2 / WCN3620	
Test SW Version:	1.5.1.2	
USB Cable	Model No.: 3080199058, Supplier: 坤記	
Power Supply:	3.8Vdc from Rechargeable Li-polymer Battery or 5.35V from AC/DC Adapter	
	Battery:	Model No.:AP14A4M, Supplier: SONY
	Adapter :	1. Model No.: PA-1100-25, Supplier: LITEON. 2. Model No.: ADP-10HW A, Supplier: DELTA.

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	12.30dBm	OFDM
	5250~5350	4	13.13dBm	
	5470~5725	11	14.47dBm	
	5725-5850	5	13.99dBm	
11n / ac	HT20 / VHT20 5150~5250	4	HT: 10.11dBm VHT: 11.09dBm	OFDM
	HT20 / VHT20 5250~5350	4	HT: 10.83dBm VHT: 12.11dBm	
	HT20 / VHT20 5470~5725	11	HT: 12.28dBm VHT: 13.28dBm	
	HT20 / VHT20 5725-5850	5	HT: 12.14dBm VHT: 12.99dBm	
11n / ac	HT40 / VHT40 5150~5250	2	HT: 7.81dBm VHT: 8.02dBm	OFDM
	HT40 / VHT40 5250~5350	2	HT: 8.13dBm VHT: 8.31dBm	
	HT40 / VHT40 5470~5725	6	HT: 9.62dBm VHT: 9.77dBm	
	HT40 / VHT40 5725-5850	2	HT: 9.14dBm VHT: 9.25dBm	
11ac	VHT80 5150~5250	1	8.53dBm	OFDM
	VHT80 5250~5350	1	8.69dBm	
	VHT80 5470~5725	3	11.01dBm	
	VHT80 5725-5850	1	9.56dBm	

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Antenna Designation	PCB Wire Antenna, Model No.: QTNKFWIPB01+A, Supplier: Wgt 5GHz Gain: 3.5dBi (5150MHz-5250MHz) 5GHz Gain: 3.5dBi (5250MHz-5350MHz) 5GHz Gain: 2.9dBi (5470MHz-5725MHz) 5GHz Gain: 2.9dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65Mbps 802.11 n_40MHz: 13.5 – 135Mbps 802.11 ac_20MHz: 6.5 – 65Mbps 802.11 ac_40MHz: 13.5 – 135Mbps 802.11 ac_80MHz: 29.3 – 292.5Mbps

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1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	Tablet Computer
Brand Name:	<i>acer</i>
Type No.:	A3-A30
Model Difference:	A5003
FCC ID	HLZA5003
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.0 dual mode + HS
NFC Specification	NFC

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01

FCC KDB 662311 D01 Multiple Transmitter Output

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with AN-SI C63.10:2013.

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.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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 §15.107. 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 which is 0.8 m 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 emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 2.3 dB and 10 dB attenuator.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

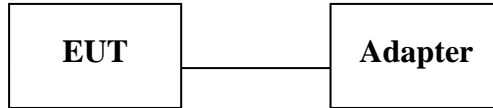


Fig. 2-2 Conducted (Antenna Port) Configuration

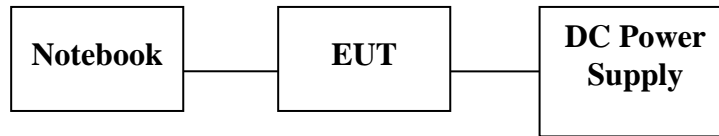


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3634A	MY53180030	Shield	Un-shield
3.	Notebook	Lenovo	L430	R9-YYG88	Shield	Un-shield

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Fig. 2-3 AC Power Line Conducted Emission

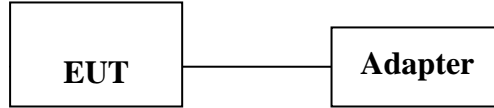


Table 2-2 Equipment Used in Tested System

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

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3. 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 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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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

5 channels are provided for 802.11n_HT40, 802.11ac_VHT40

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

3 channels are provided for 802.11ac_VHT80

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

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n and ac modes, and 802.11ac 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:

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
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	60	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	116	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	157	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN

Note:

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS0	MAIN
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				OFDM	MCS0	MAIN
802.11ac_HT40 802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_HT20 802.11ac_VHT20				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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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

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6. CONDUCTED EMISSION TEST

6.1. Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- 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					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	06/20/2014	06/19/2015
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2015	01/07/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/10/2014	06/09/2015
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016

6.3. EUT Setup

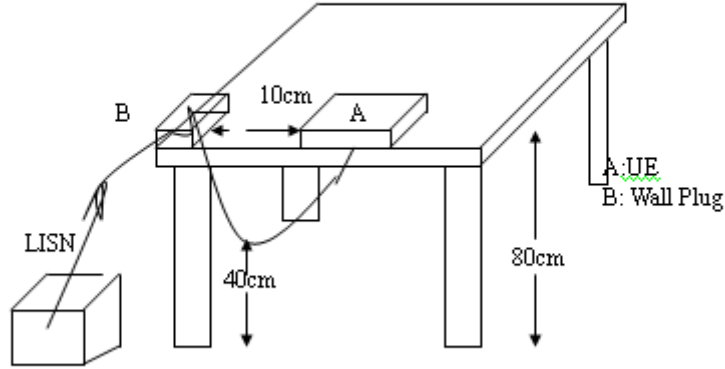
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
- The LISN was connected with 120Vac/60Hz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

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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

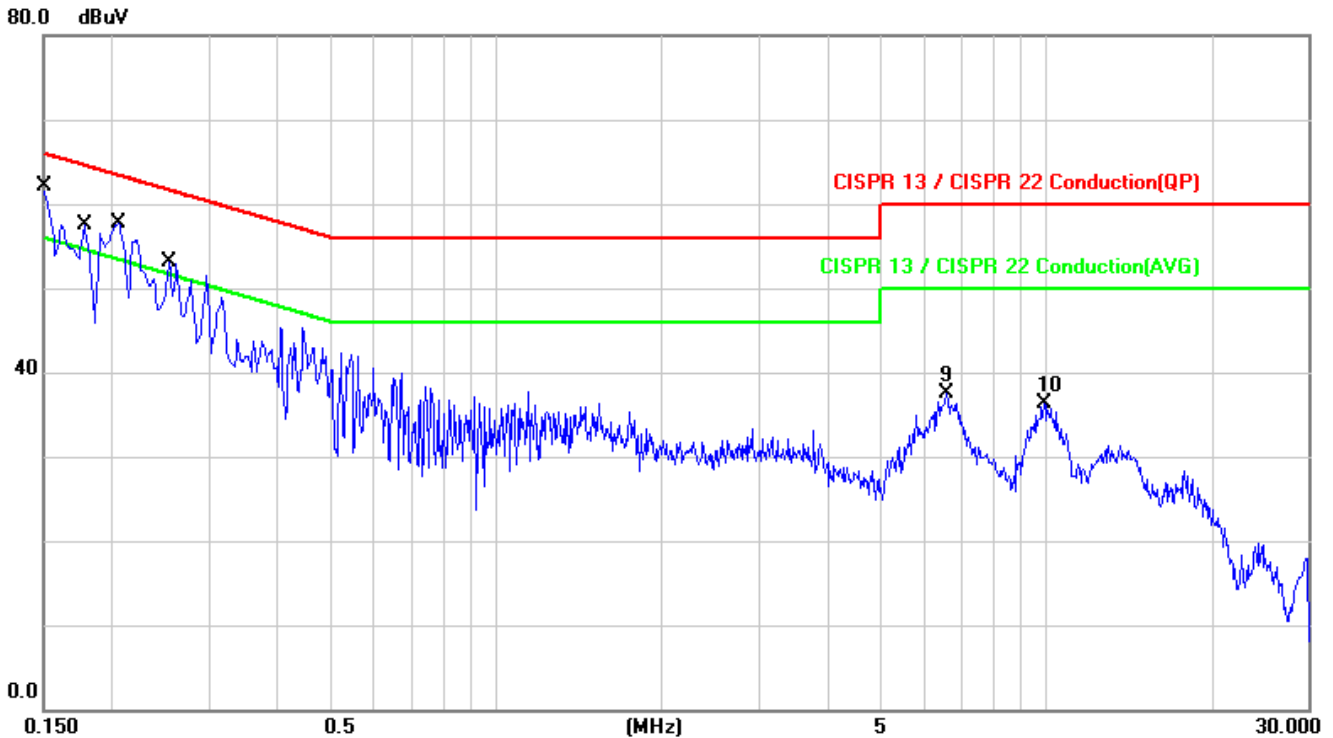
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode		Test Date:	Mar. 26, 2015	
Temperature:	21	Humidity:	70 %	Test By:	Vito
Model No.:	PA-1100-25				
Phase:	L1				



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1516	54.40	0.12	54.52	65.91	-11.39	QP	
2		0.1516	38.70	0.12	38.82	55.91	-17.09	AVG	
3		0.1780	49.90	0.12	50.02	64.58	-14.56	QP	
4		0.1780	35.40	0.12	35.52	54.58	-19.06	AVG	
5		0.2060	50.80	0.12	50.92	63.37	-12.45	QP	
6		0.2060	37.30	0.12	37.42	53.37	-15.95	AVG	
7		0.2540	45.20	0.12	45.32	61.63	-16.31	QP	
8		0.2540	30.40	0.12	30.52	51.63	-21.11	AVG	
9		6.6020	37.11	0.32	37.43	60.00	-22.57	peak	
10		9.9580	35.91	0.40	36.31	60.00	-23.69	peak	

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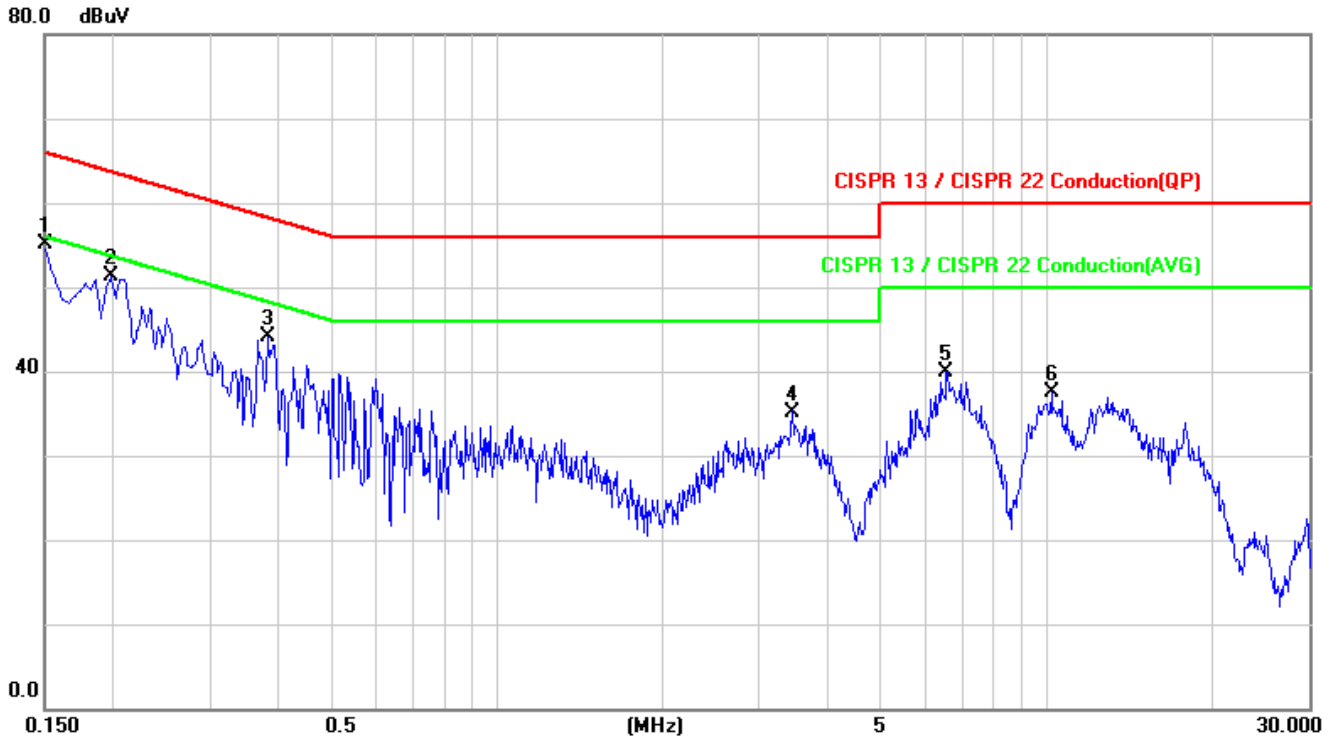
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Operation Mode:	Operation mode		Test Date:	Mar. 26, 2015	
Temperature:	21	Humidity:	70 %	Test By:	Vito
Model No.:	PA-1100-25				
Phase:	N				



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	*	0.1500	54.98	0.12	55.10	66.00	-10.90	peak	
2		0.1980	51.17	0.12	51.29	63.69	-12.40	peak	
3		0.3820	44.01	0.12	44.13	58.24	-14.11	peak	
4		3.4420	34.97	0.23	35.20	56.00	-20.80	peak	
5		6.5700	39.54	0.32	39.86	60.00	-20.14	peak	
6		10.2220	37.06	0.40	37.46	60.00	-22.54	peak	

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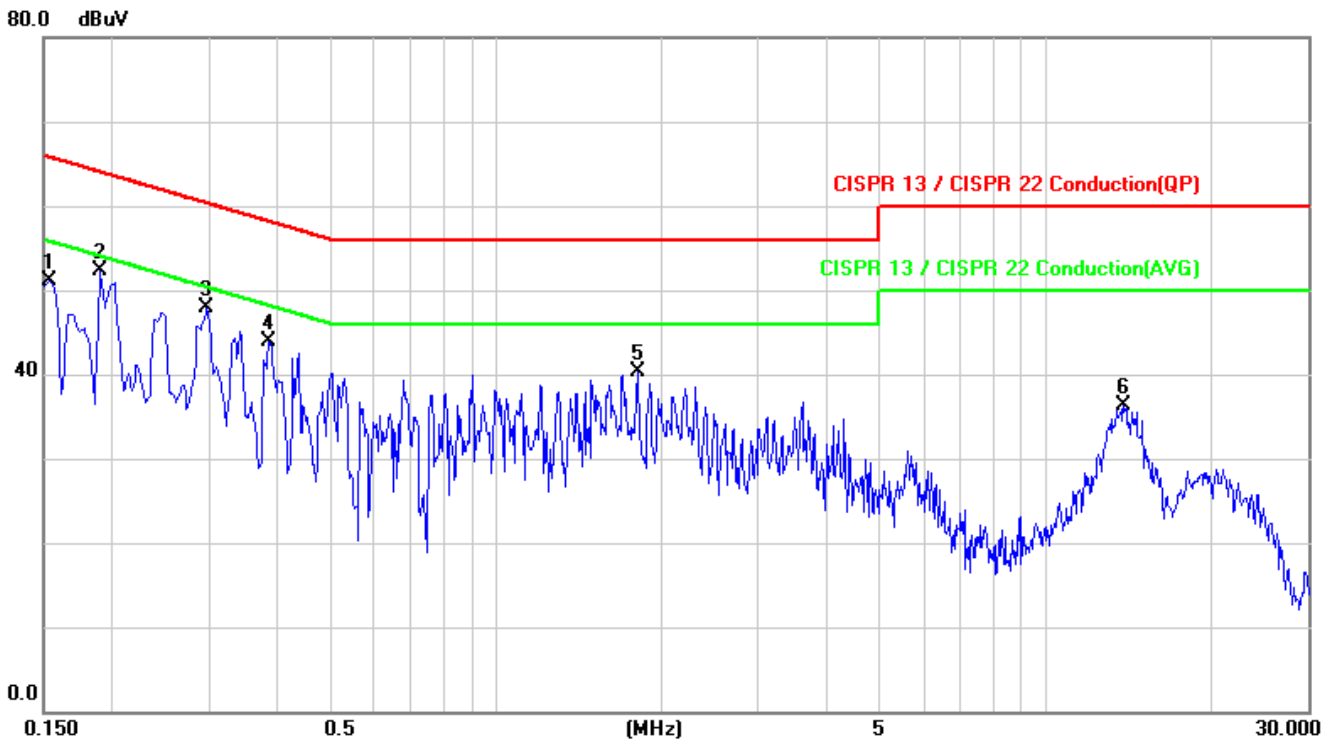
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Operation Mode:	Operation mode		Test Date:	Mar. 26, 2015	
Temperature:	21	Humidity:	70 %	Test By:	Vito
Model No.:	ADP-10HW				
Phase:	L1				



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1540	51.09	0.05	51.14	65.78	-14.64	peak	
2	*	0.1900	52.36	0.04	52.40	64.04	-11.64	peak	
3		0.2980	47.91	0.08	47.99	60.30	-12.31	peak	
4		0.3860	43.70	0.12	43.82	58.15	-14.33	peak	
5		1.8100	39.79	0.49	40.28	56.00	-15.72	peak	
6		13.8420	35.89	0.37	36.26	60.00	-23.74	peak	

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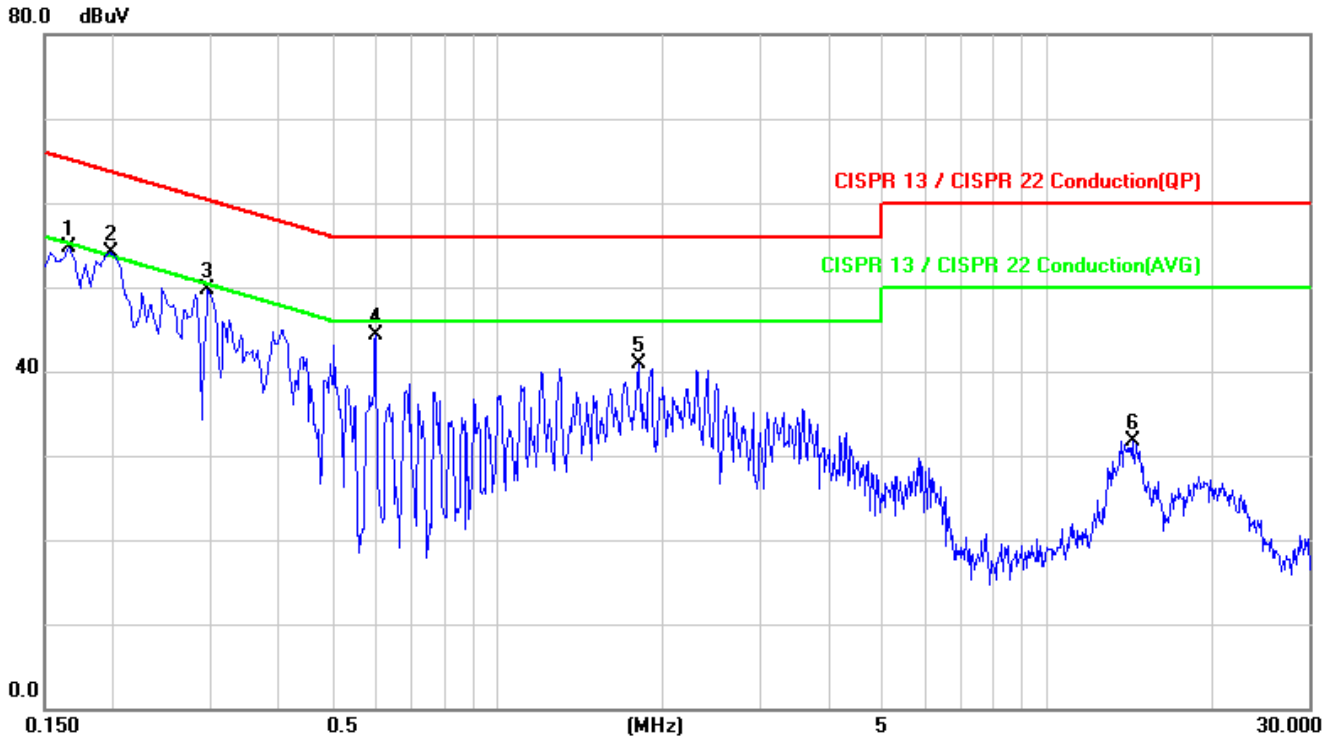
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Operation Mode:	Operation mode		Test Date:	Mar. 26, 2015	
Temperature:	21	Humidity:	70 %	Test By:	Vito
Model No.:	ADP-10HW				
Phase:	N				



No.	Mk.	Freq. (MHz)	Reading dBuV	Factor (dB)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1		0.1660	54.71	0.05	54.76	65.16	-10.40	peak	
2	*	0.1980	54.01	0.04	54.05	63.69	-9.64	peak	
3		0.2980	49.53	0.08	49.61	60.30	-10.69	peak	
4		0.6020	44.17	0.21	44.38	56.00	-11.62	peak	
5		1.8100	40.47	0.49	40.96	56.00	-15.04	peak	
6		14.3260	31.45	0.35	31.80	60.00	-28.20	peak	

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle	Duty Fator (dB)
802.11a	93.33%	0.30
802.11ac_20	92.95%	0.32
802.11ac_40	86.74%	0.62
802.11ac_80	76.20%	1.18

$$\text{Duty Cycle Factor: } 10 * \log (1/0.9333) = 0.30$$

$$\text{Duty Cycle Factor: } 10 * \log (1/0.9295) = 0.32$$

$$\text{Duty Cycle Factor: } 10 * \log (1/0.8974) = 0.62$$

$$\text{Duty Cycle Factor: } 10 * \log (1/0.7620) = 1.18$$

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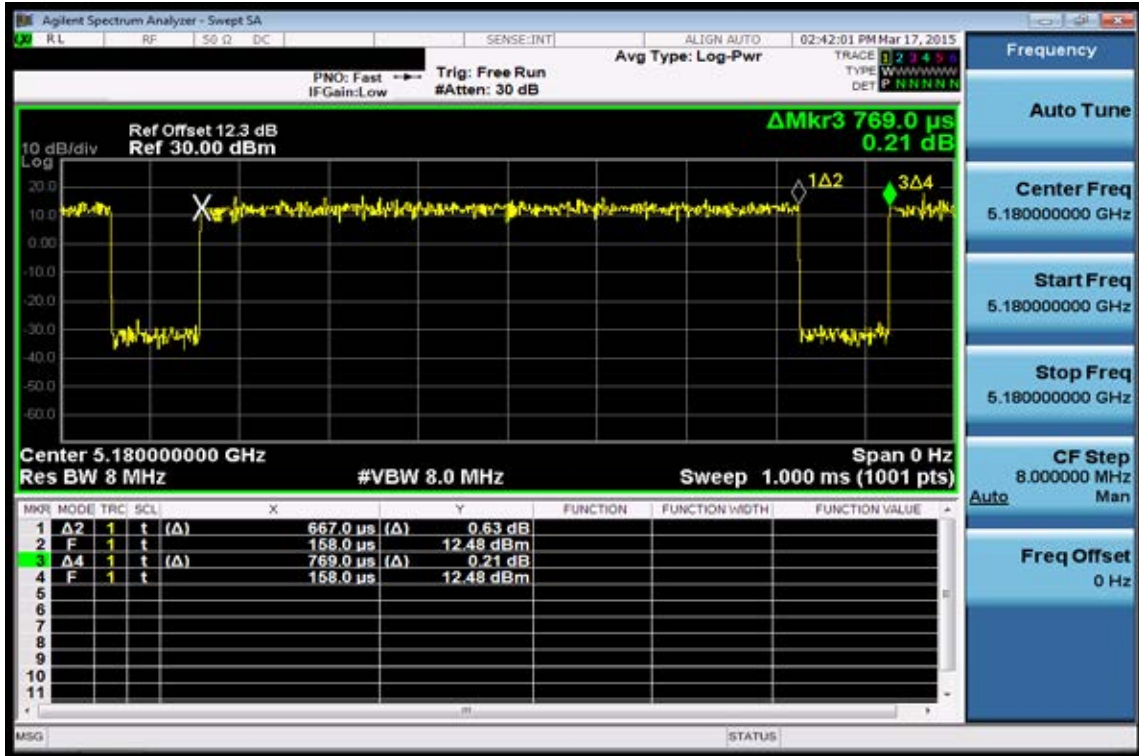
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DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



802.11ac VHT20



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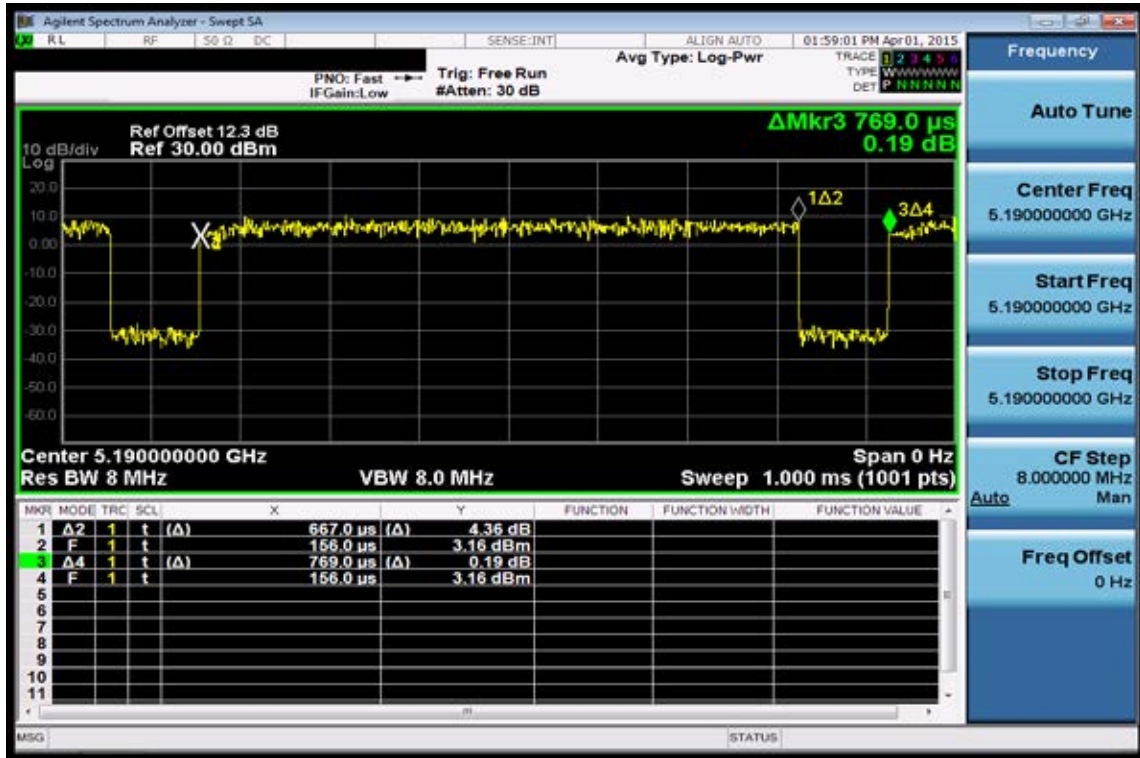
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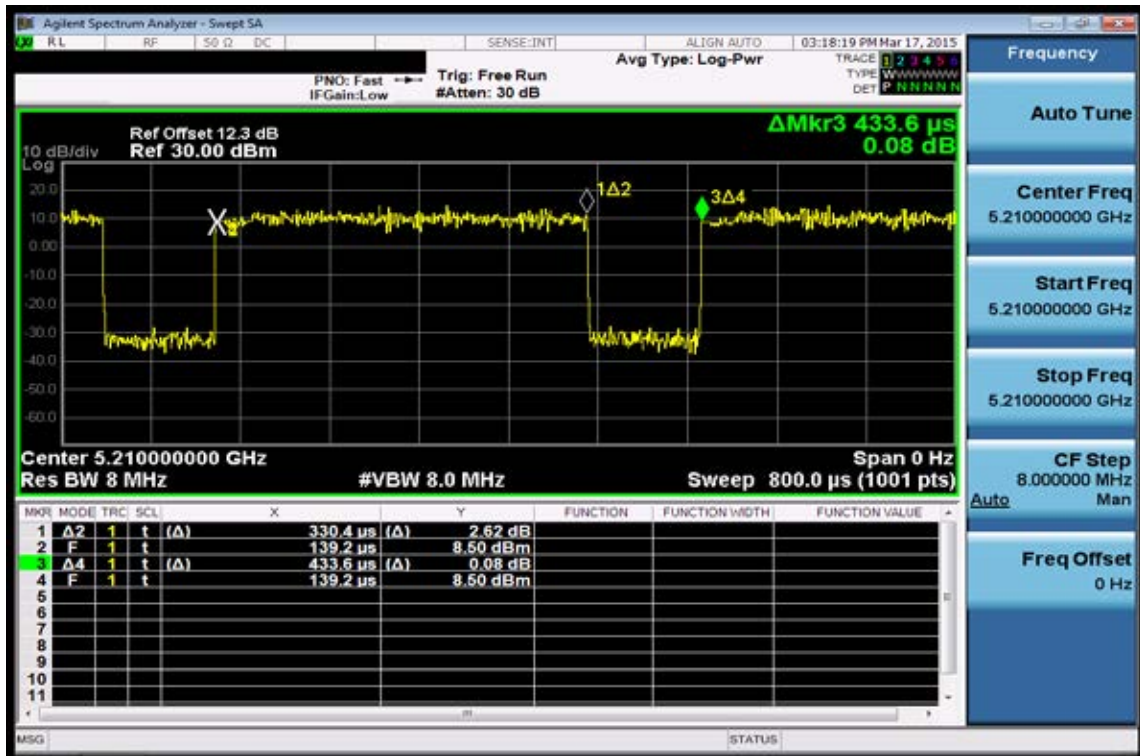
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802.11 ac VHT 40



802.11 ac VHT 80



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW Sweep=auto, Detector = Peak, Trace Mode = Max Hold, Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=Peak, Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all test default channel measured were complete.

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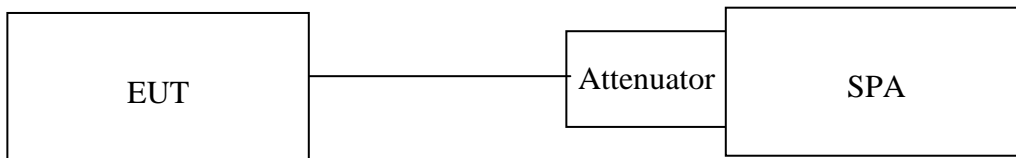
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015

8.4 Test Set-up



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8.5 Measurement Result

26dB Bandwidth

802.11a

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	21.450	13.31
5220	21.500	13.32
5240	21.420	13.31
5260	21.540	13.33
5300	21.450	13.31
5320	21.220	13.27
5500	21.690	13.36
5580	21.480	13.32
5700	21.420	13.31

802.11ac_VHT20

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	21.720	13.37
5220	21.780	13.38
5240	21.610	13.35
5260	21.660	13.36
5300	21.610	13.35
5320	21.530	13.33
5500	21.510	13.33
5580	21.570	13.34
5700	21.620	13.35

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802.11ac_VHT40

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.050	16.03
5230	40.130	16.03
5270	40.420	16.07
5310	40.220	16.04
5510	39.880	16.01
5550	40.000	16.02
5670	40.110	16.03

802.11ac_VHT80

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	81.170	19.09
5290	81.260	19.10
5530	80.730	19.07
5610	81.380	19.11
5690	80.890	19.08

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6dB Bandwidth (5725 MHz~ 5850 MHz)

802.11a

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.340	12.13
5785	16.350	12.14
5825	16.370	12.14

802.11ac_VHT20

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	17.620	12.46
5785	17.600	12.46
5825	17.600	12.46

802.11ac_VHT40

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	36.380	15.61
5795	36.330	15.60

802.11ac_VHT80

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.780	18.80

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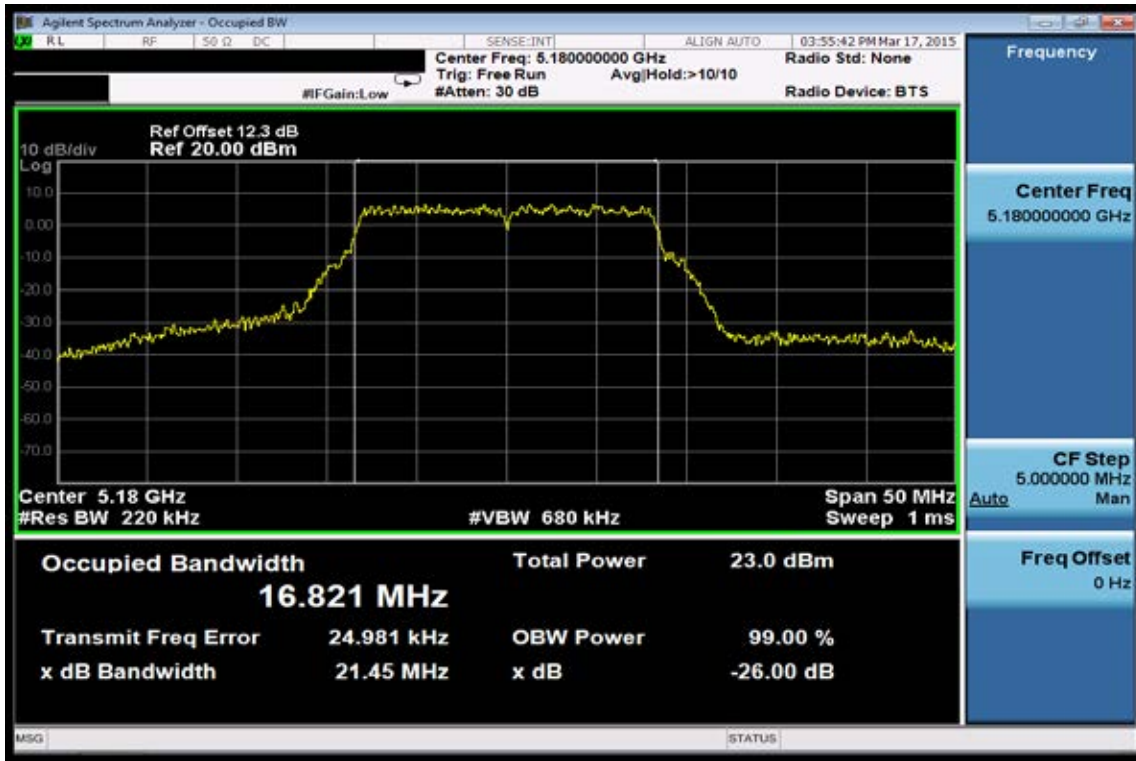
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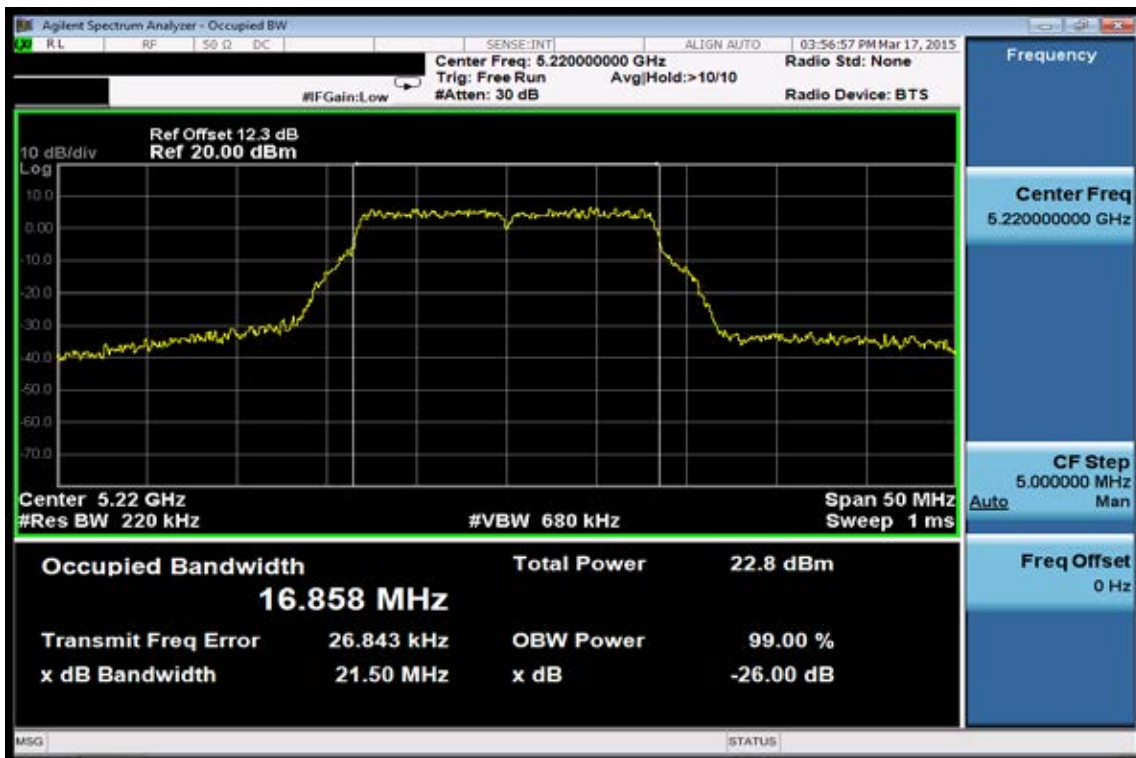
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802.11a, 5150~5250 MHz
 26dB Band Width Test Data CH-Low (5180MHz)



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

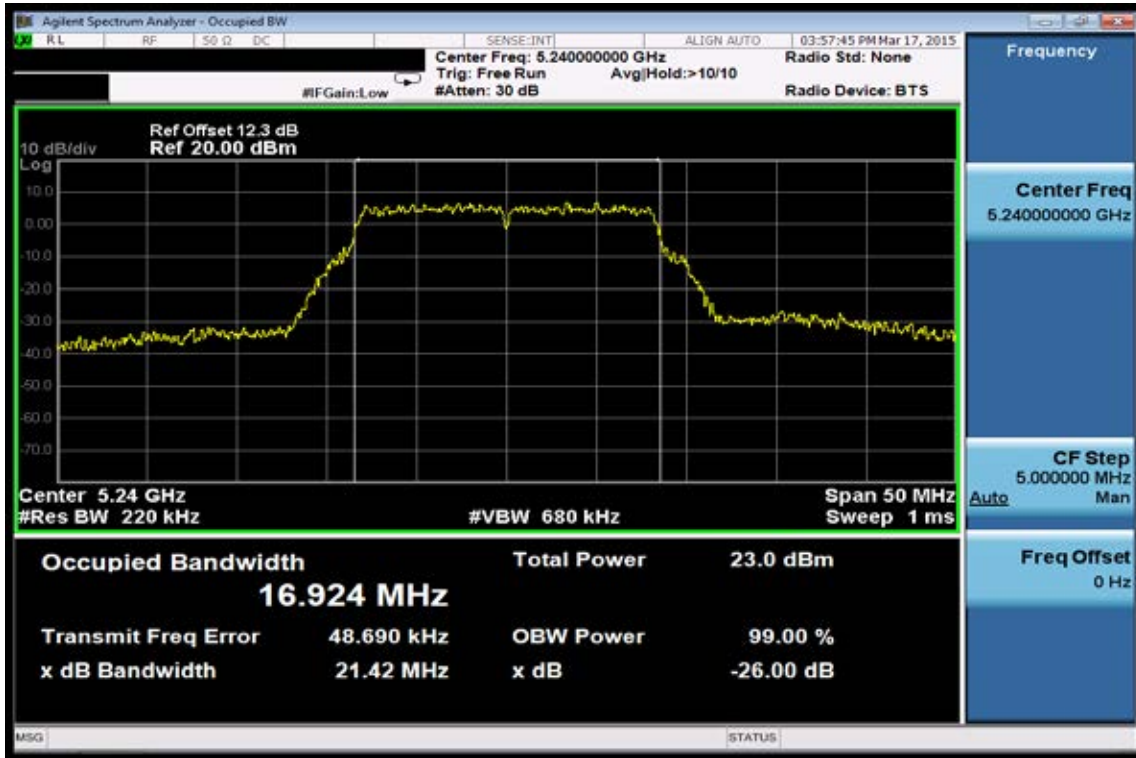


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26dB Band Width Test Data CH-High (5240MHz)



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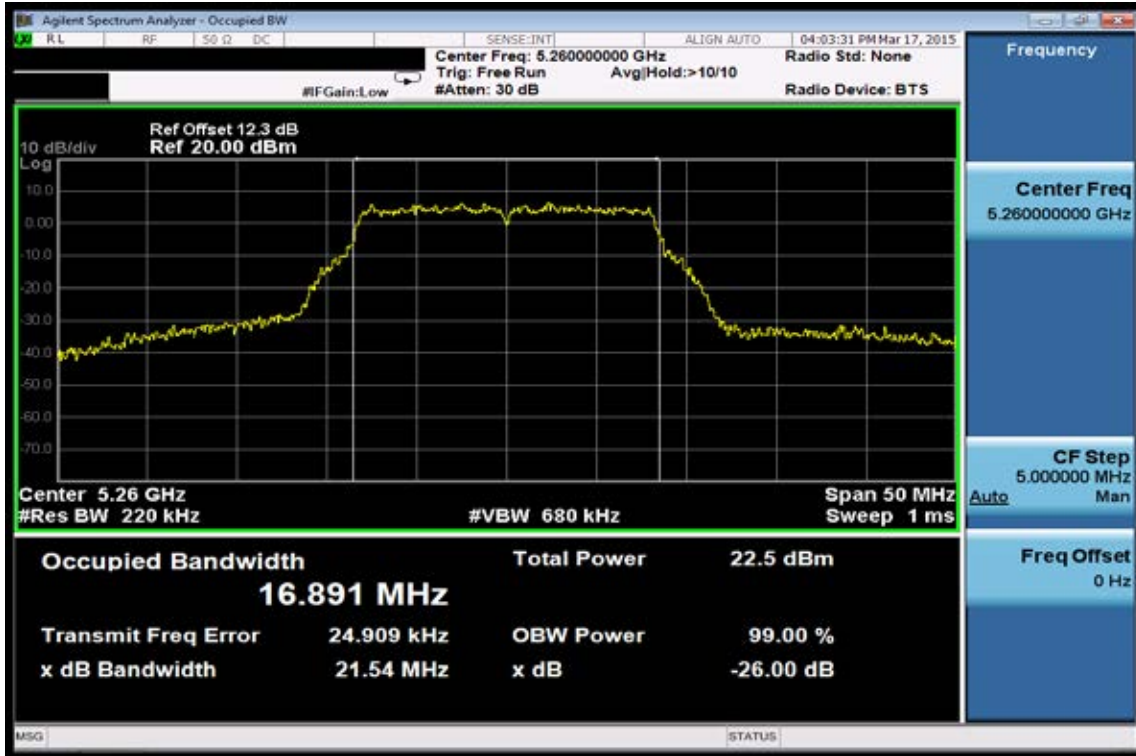
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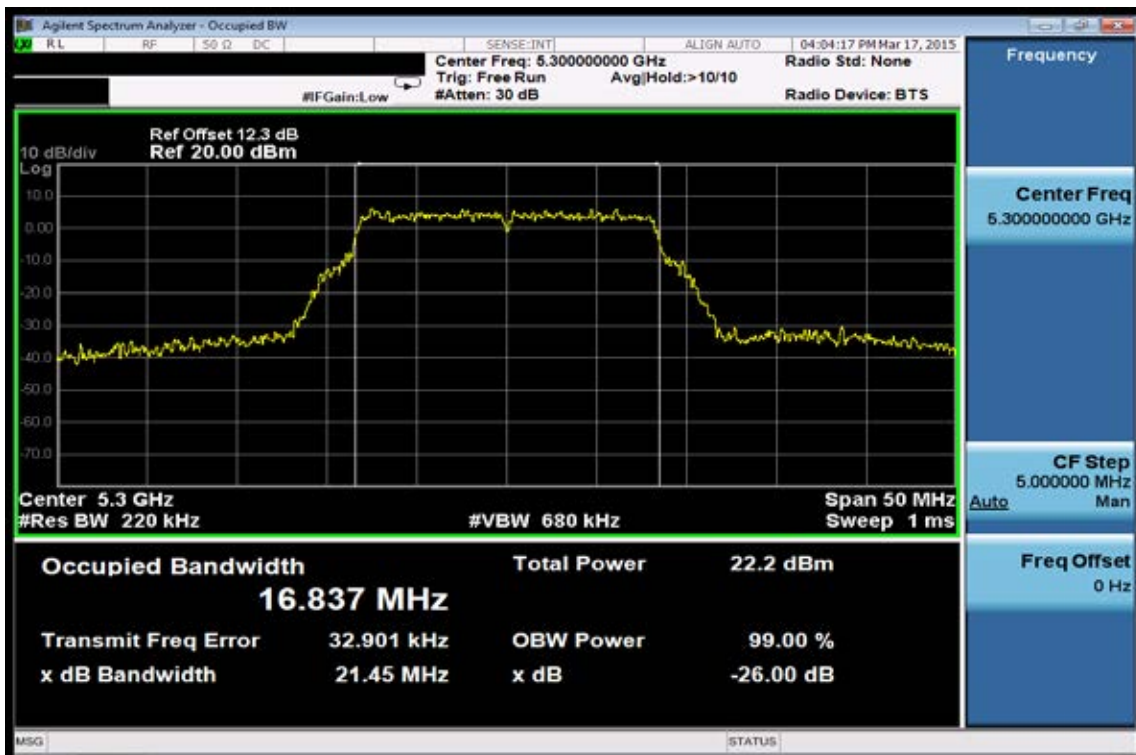
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802.11a, 5250~5350 MHz
 26dB Band Width Test Data CH-Low (5260MHz)



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



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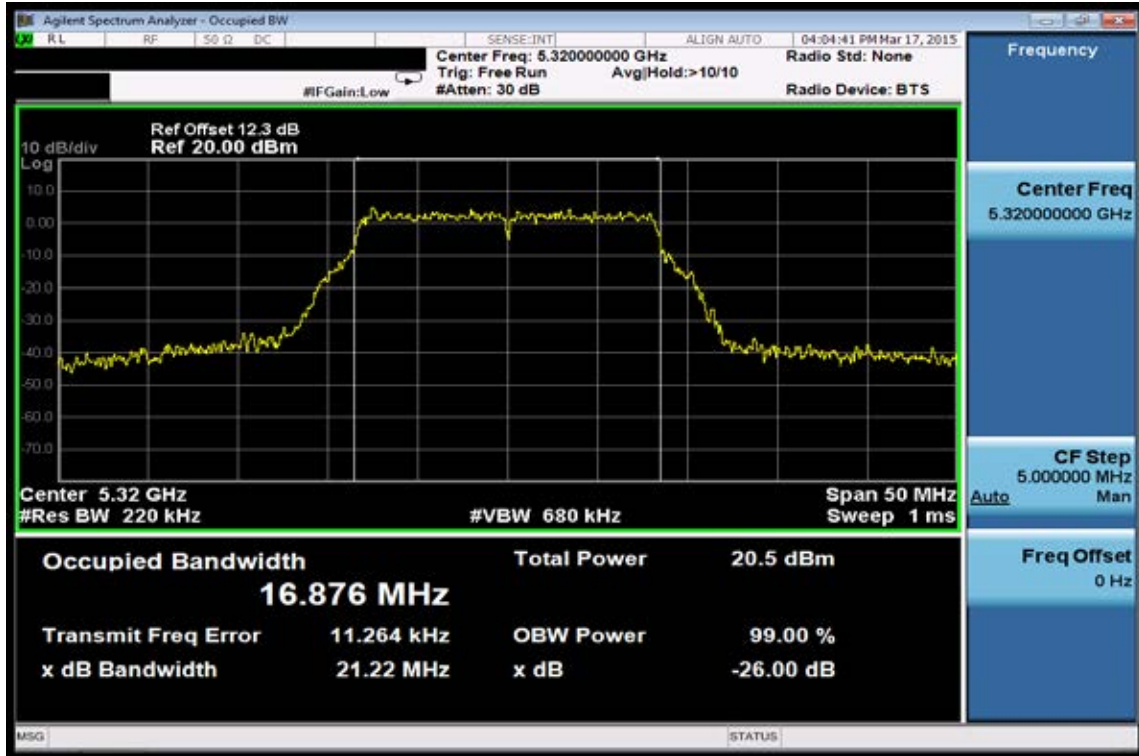
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26dB Band Width Test Data CH-High (5320MHz)



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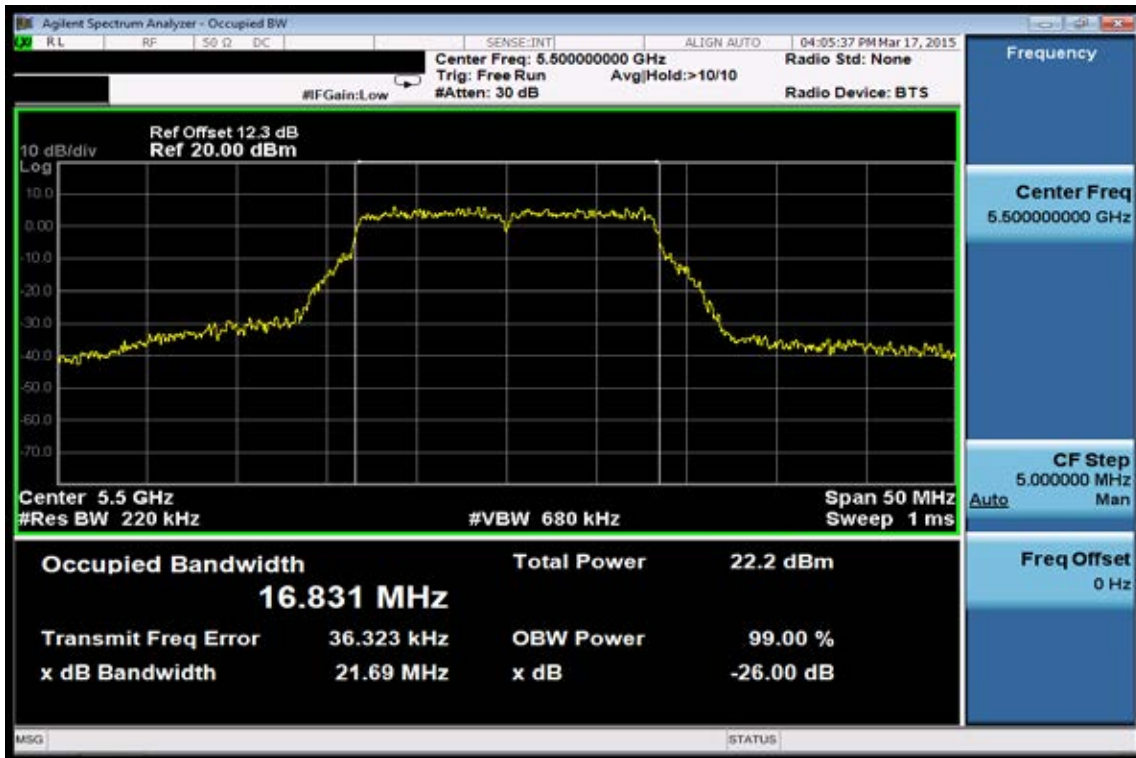
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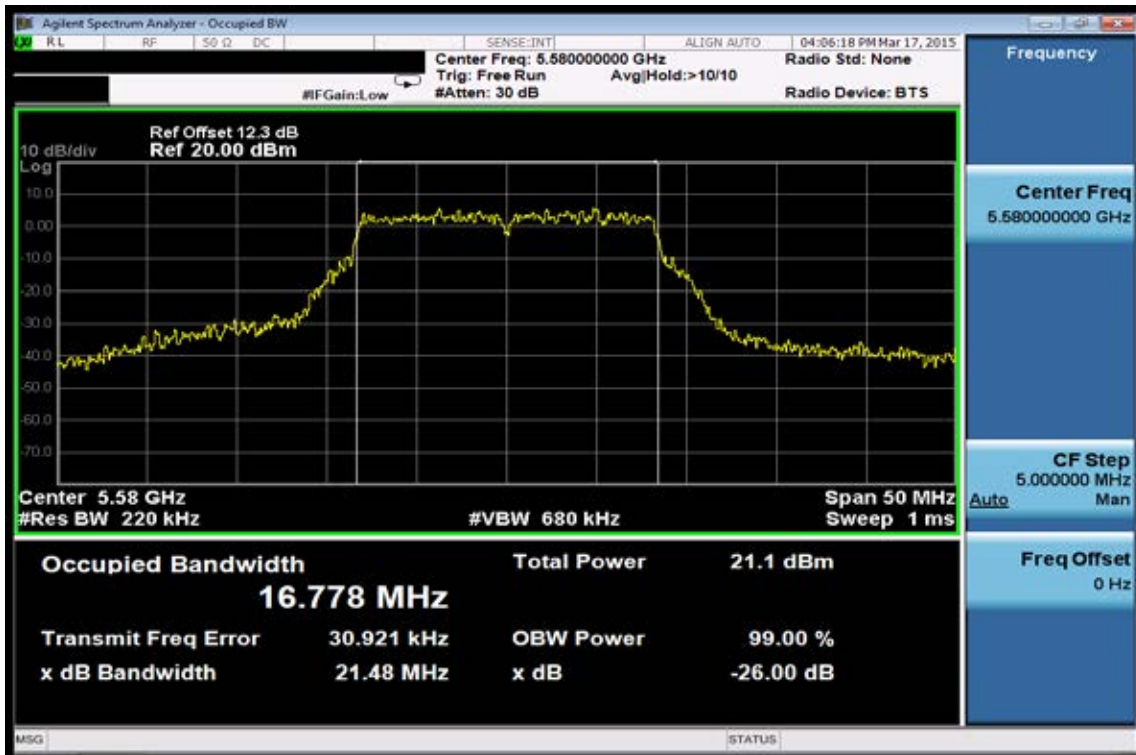
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802.11a, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500MHz)



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



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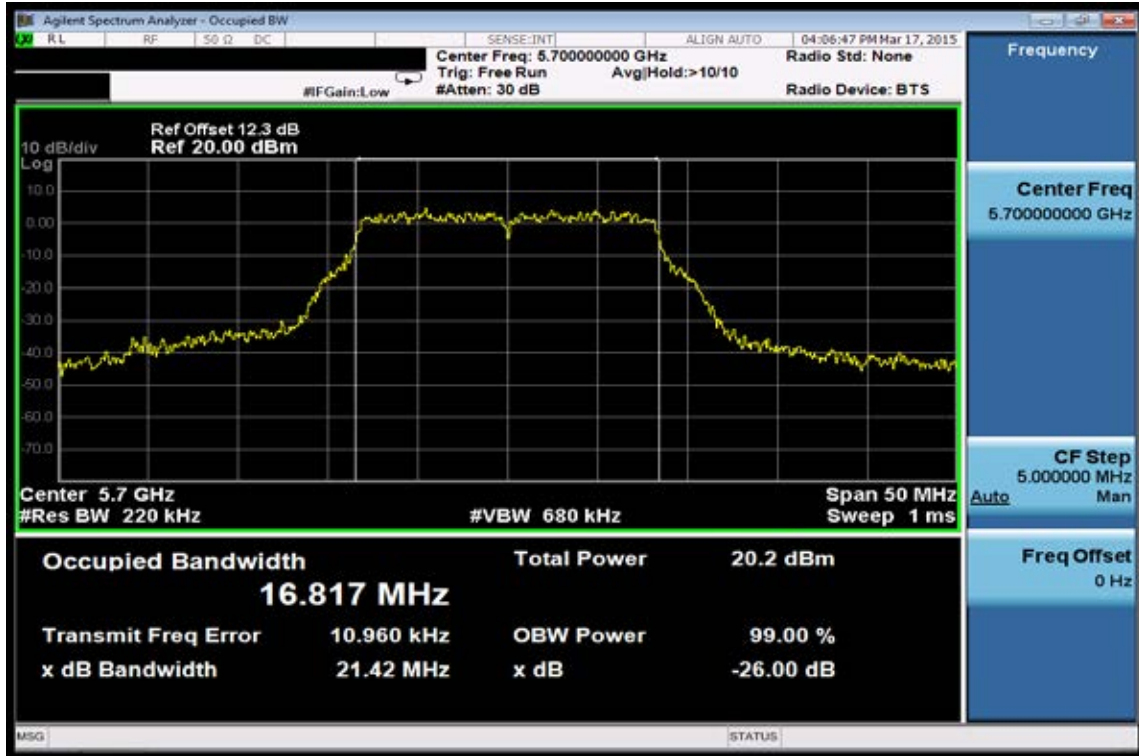
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26dB Band Width Test Data CH-High (5700MHz)



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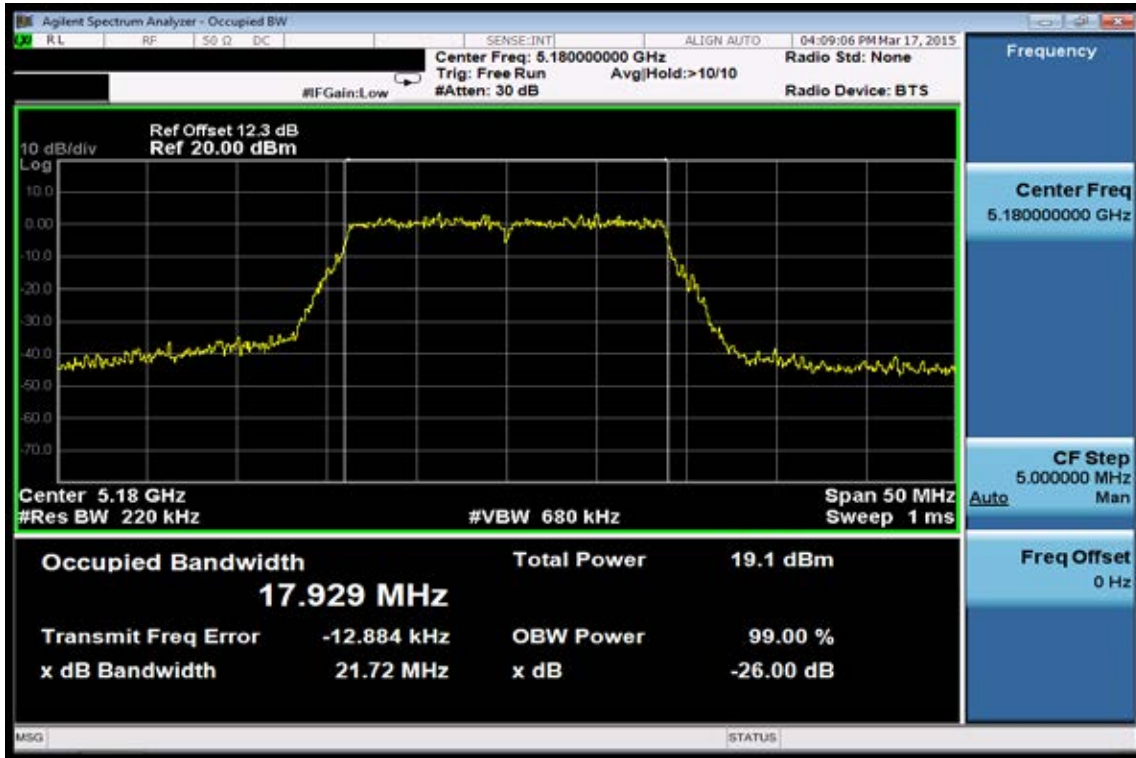
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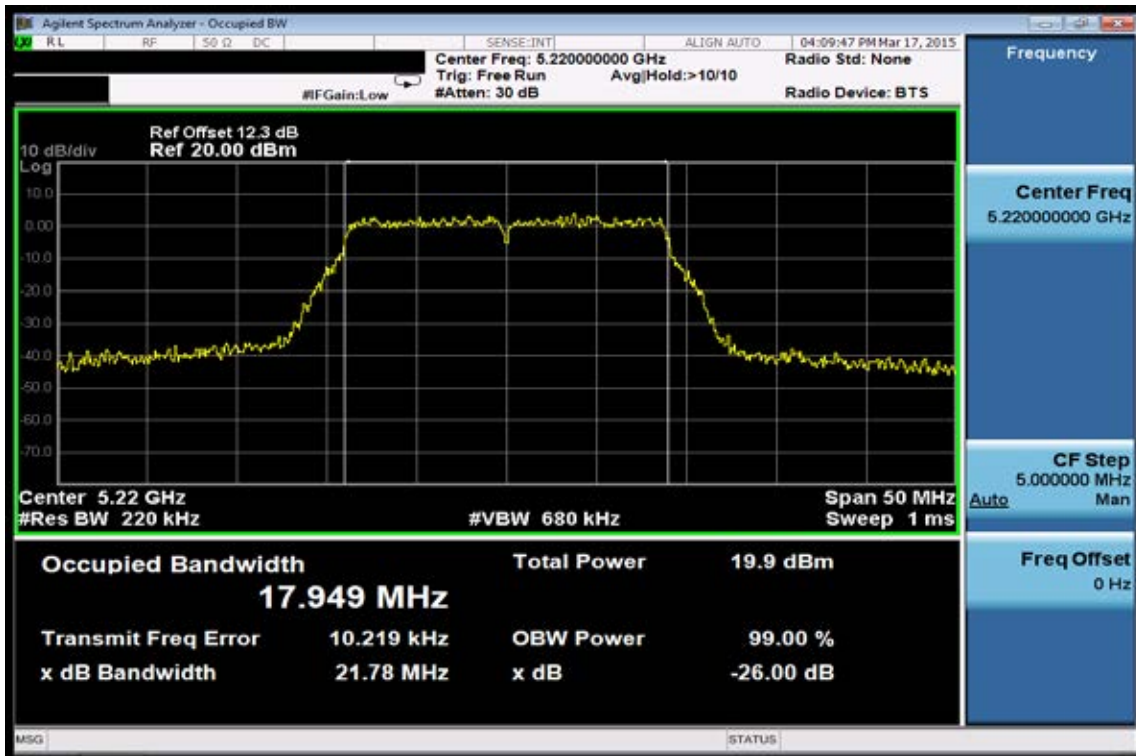
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802.11ac VHT20, 5150~5250 MHz
26dB Band Width Test Data CH-Low (5180 MHz)



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



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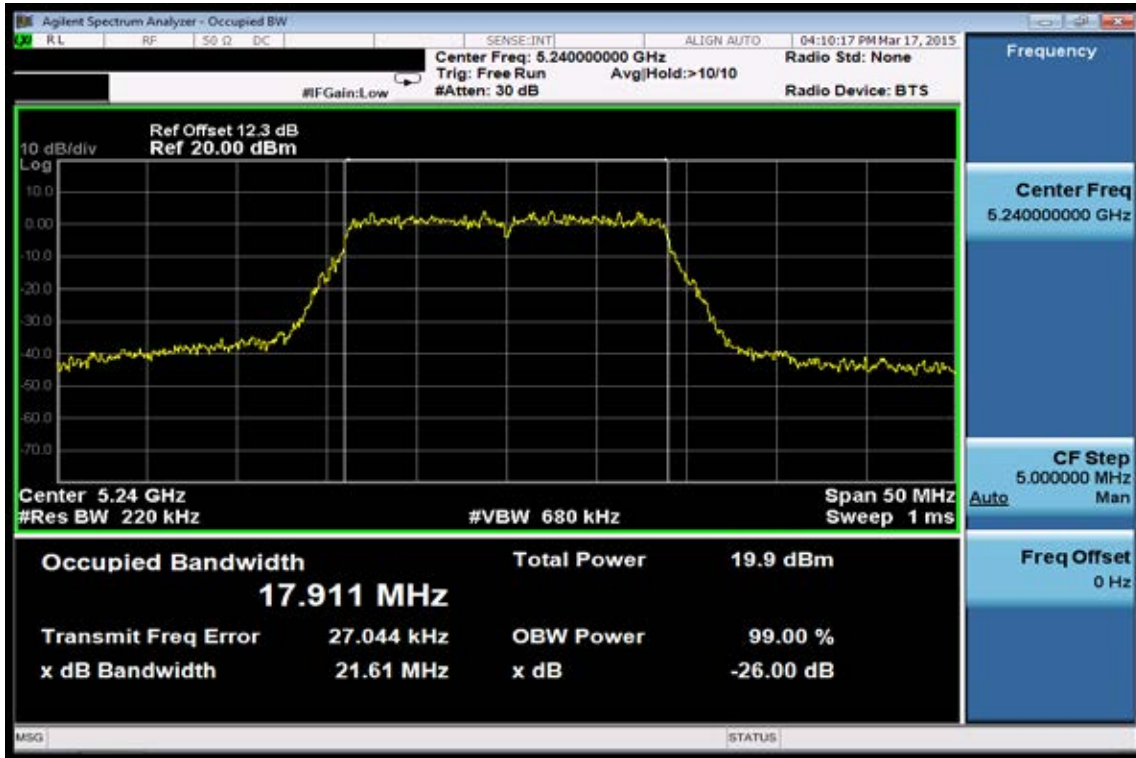
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26dB Band Width Test Data CH-High (5240 MHz)



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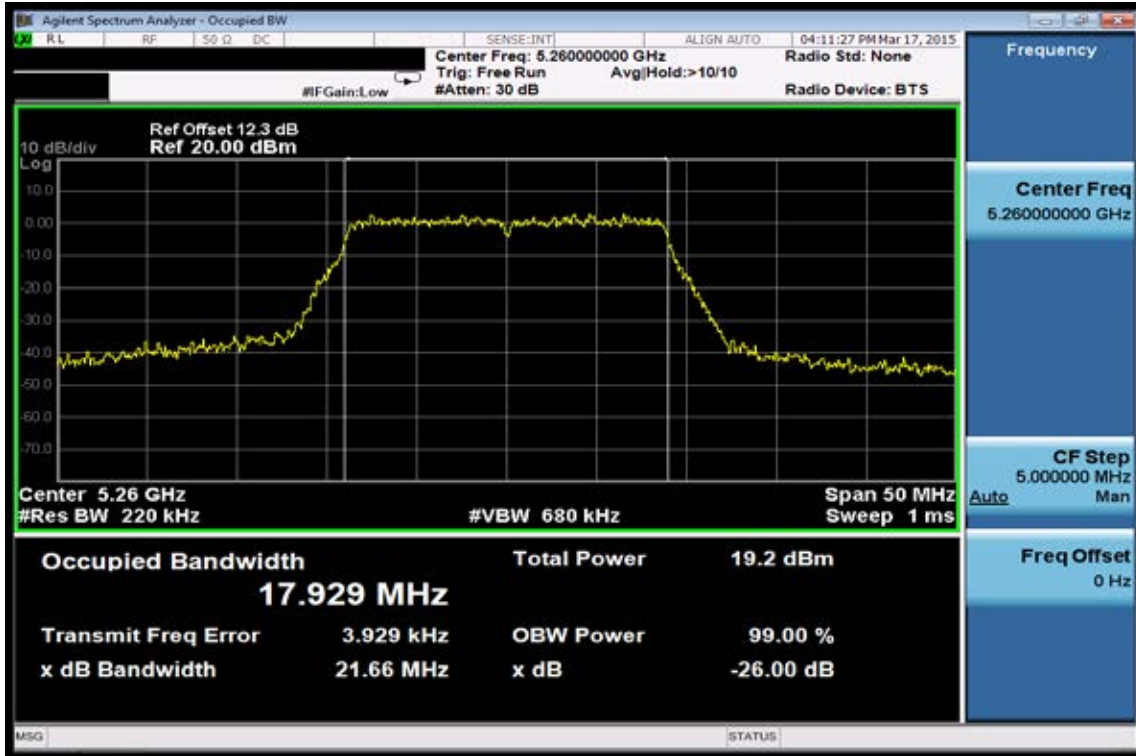
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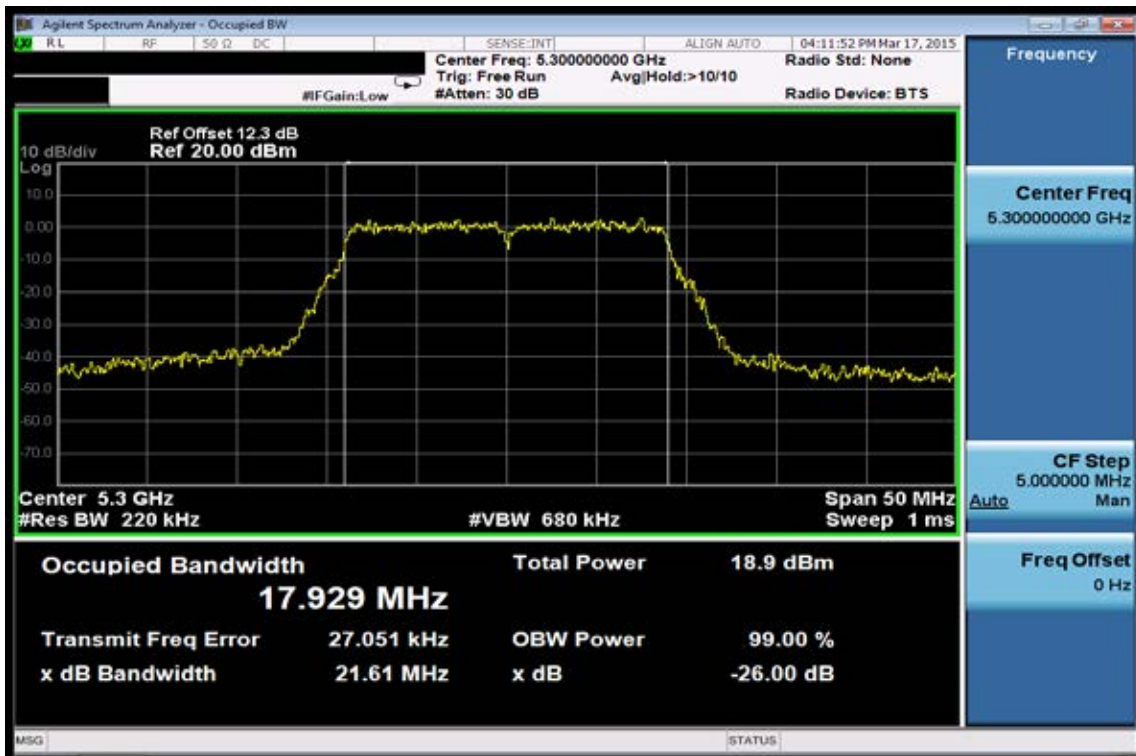
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802.11ac VHT20, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5260 MHz)



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



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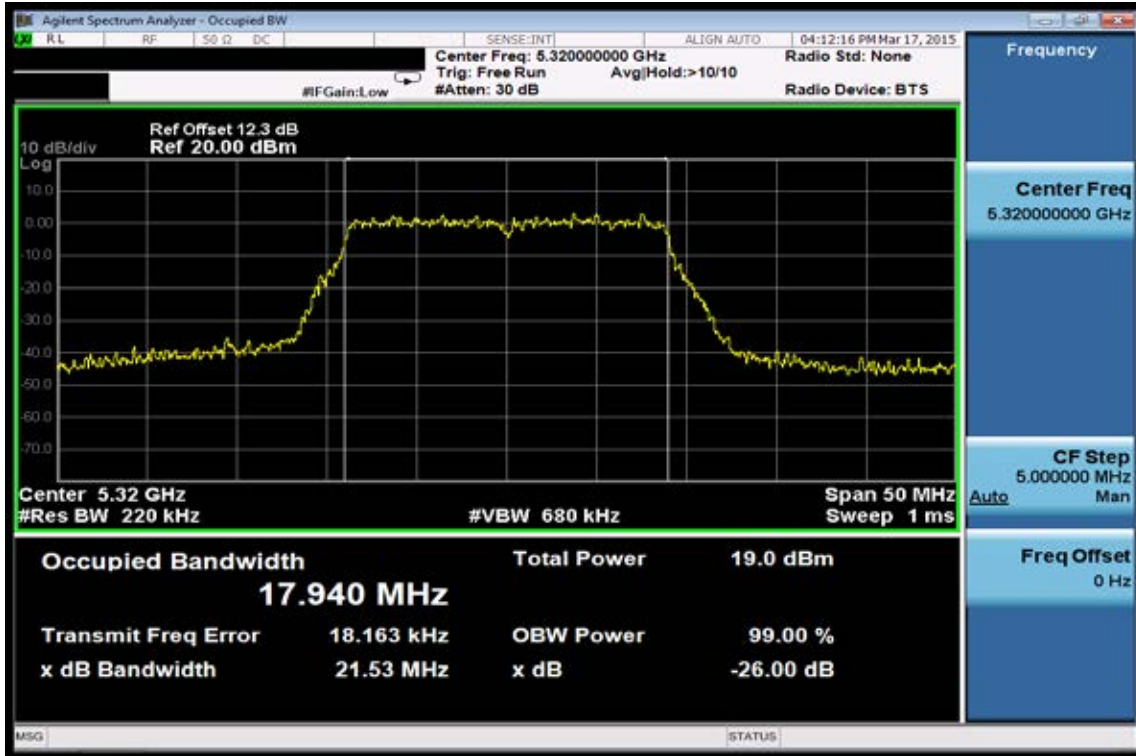
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26dB Band Width Test Data CH-High (5320 MHz)



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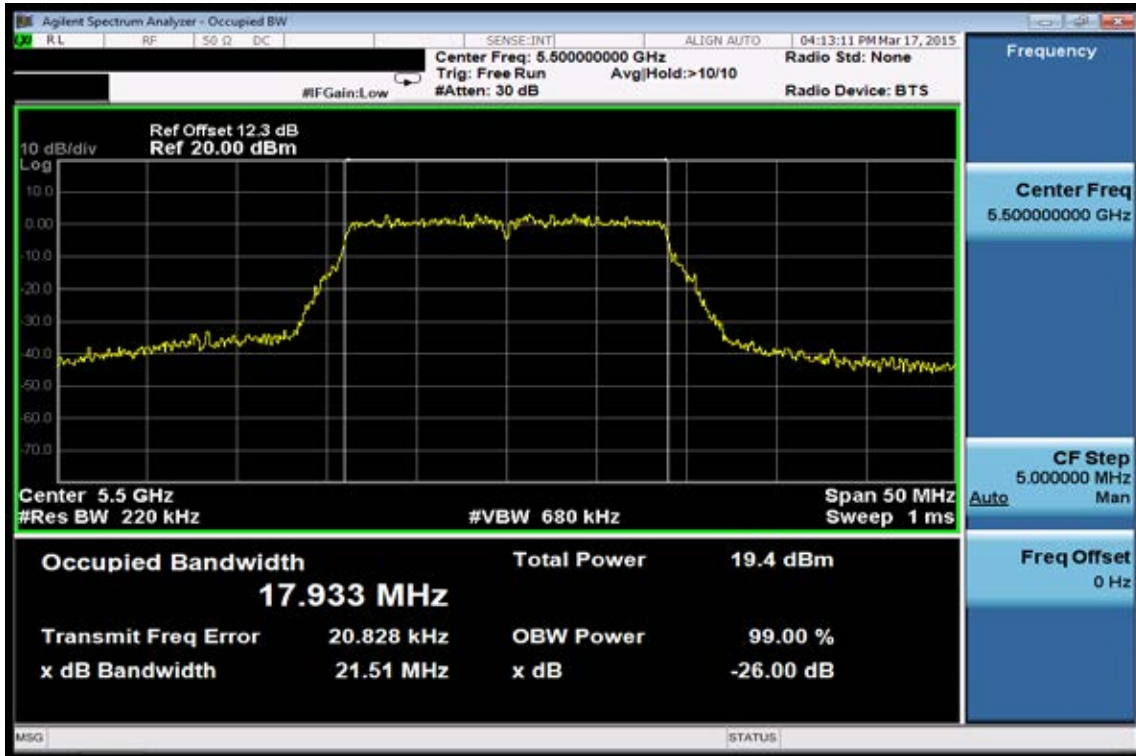
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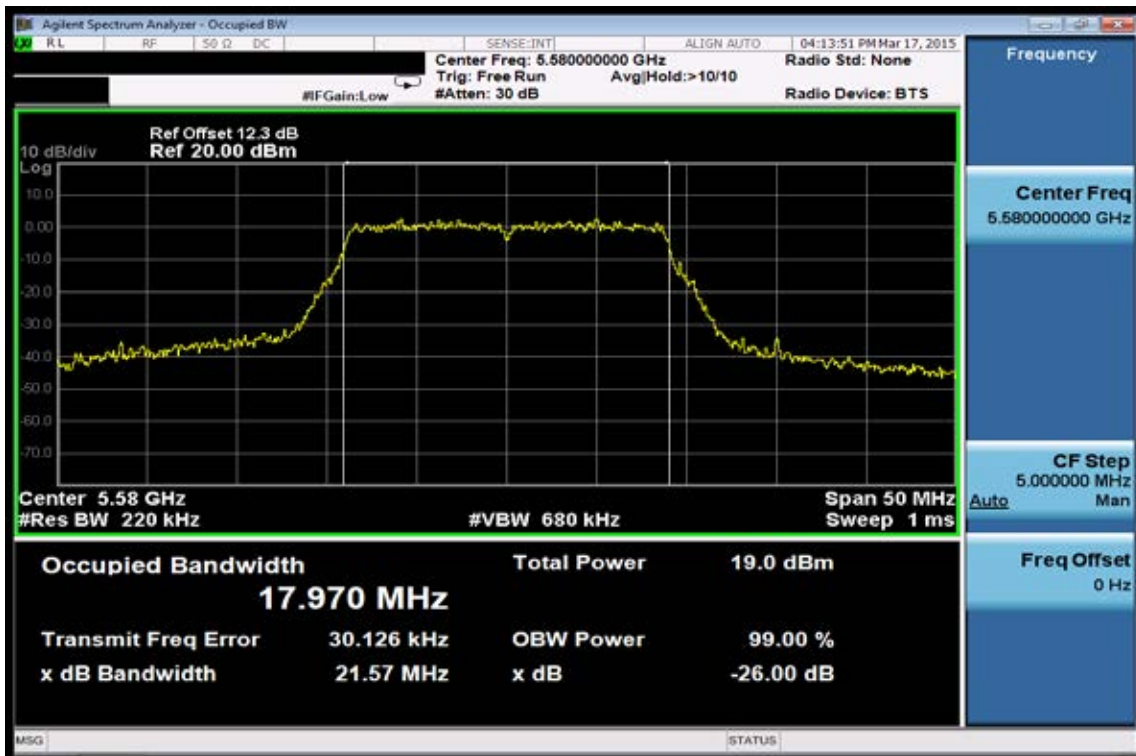
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802.11n VHT20, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5500 MHz)



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



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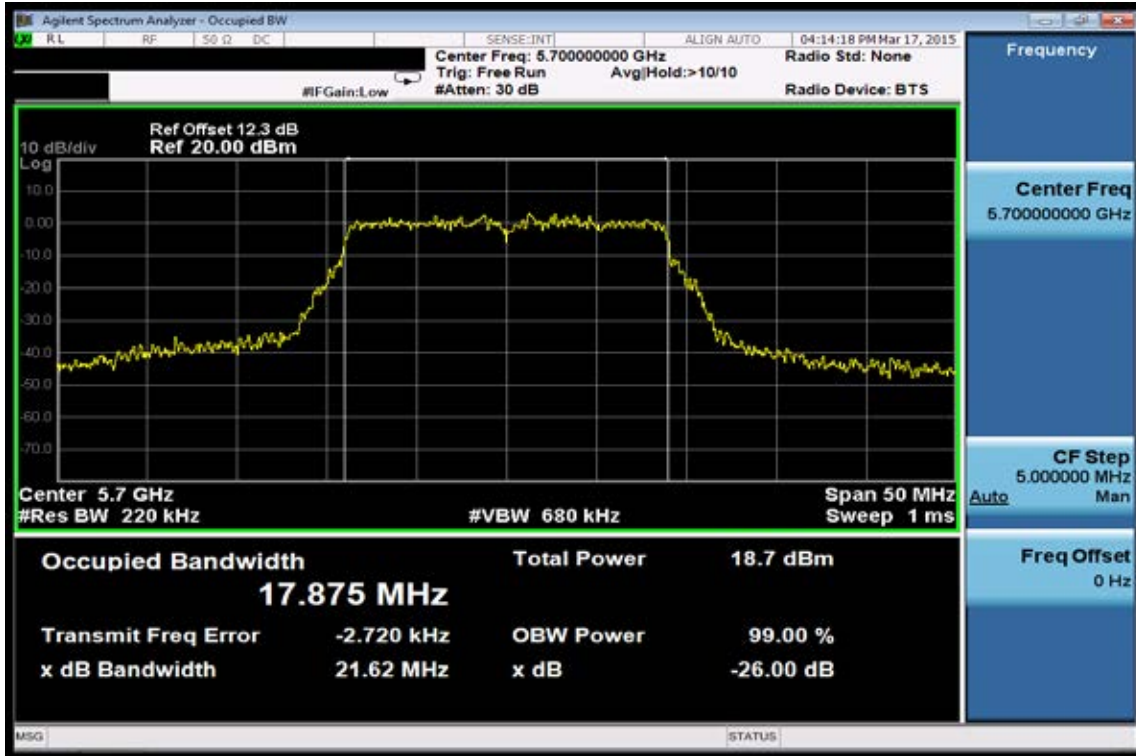
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26dB Band Width Test Data CH-High (5700 MHz)



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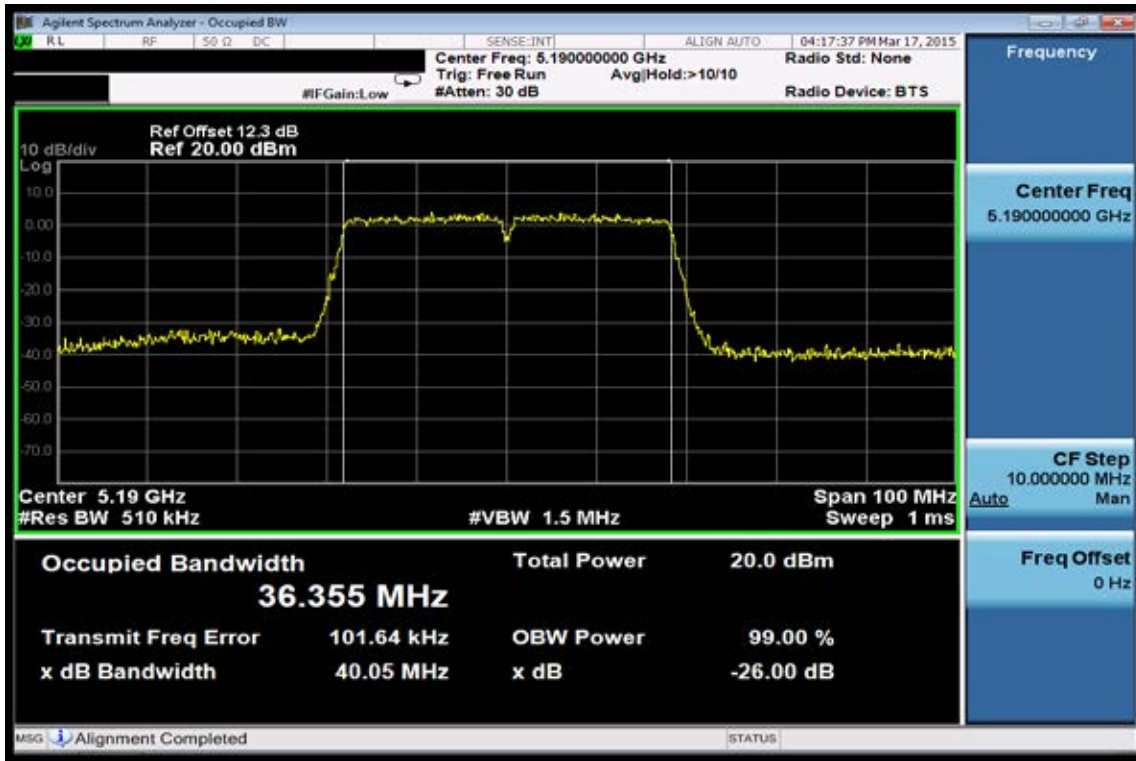
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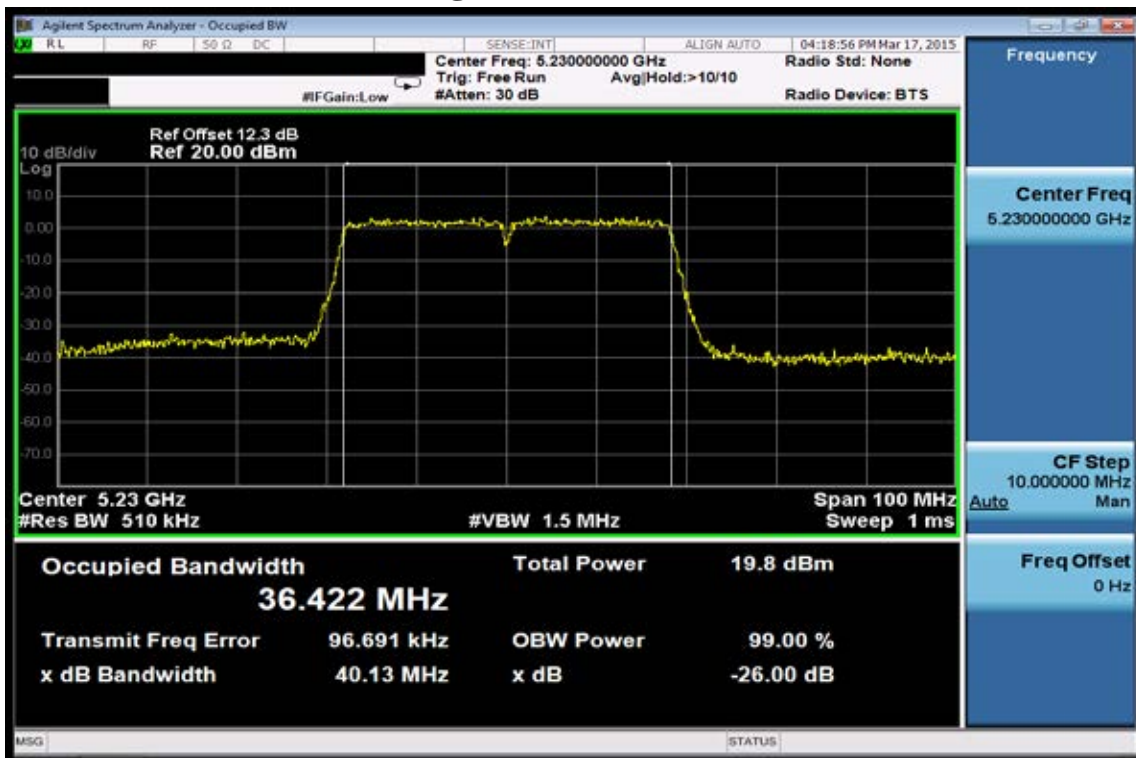
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802.11ac VHT40, 5150~5250 MHz
 26dB Band Width Test Data CH-Low (5190 MHz)



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

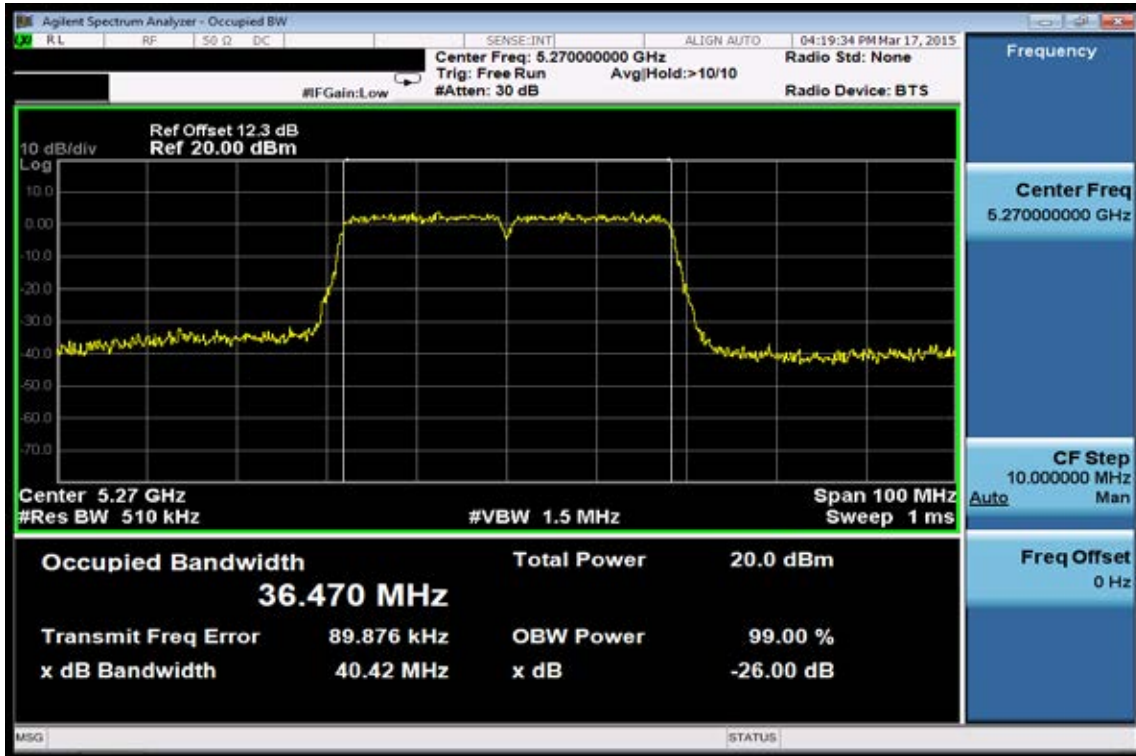


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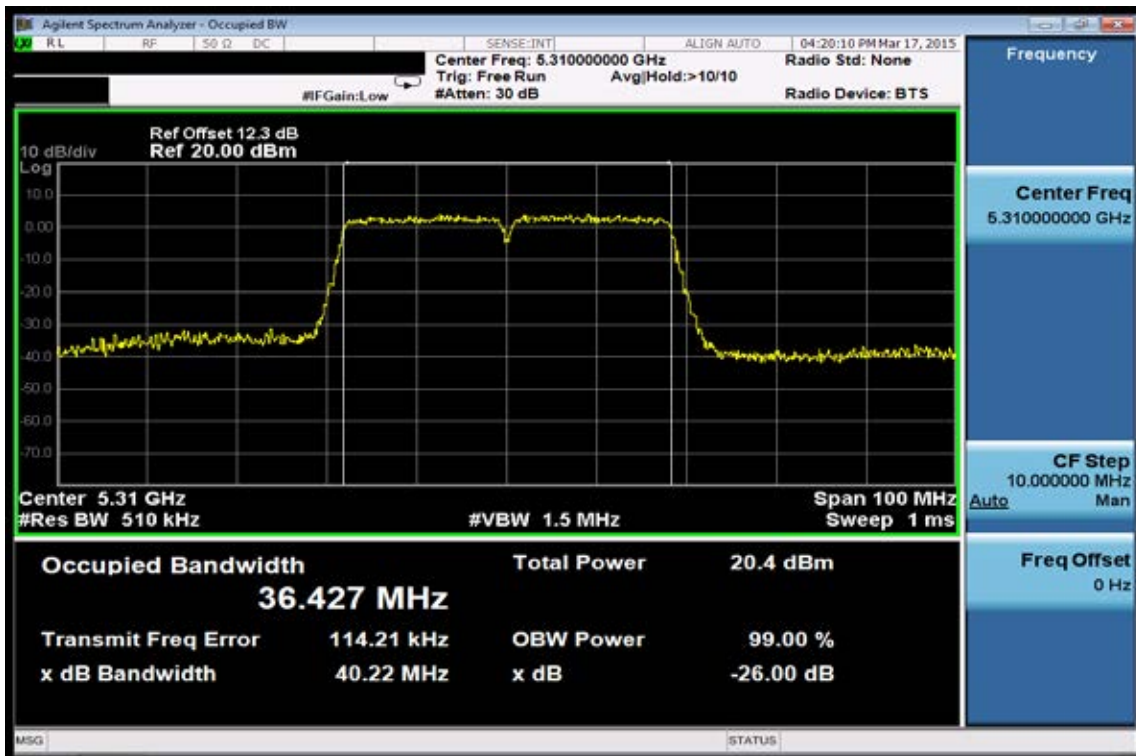
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802.11ac VHT40, 5250~5350 MHz
26dB Band Width Test Data CH-Low (5270 MHz)



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



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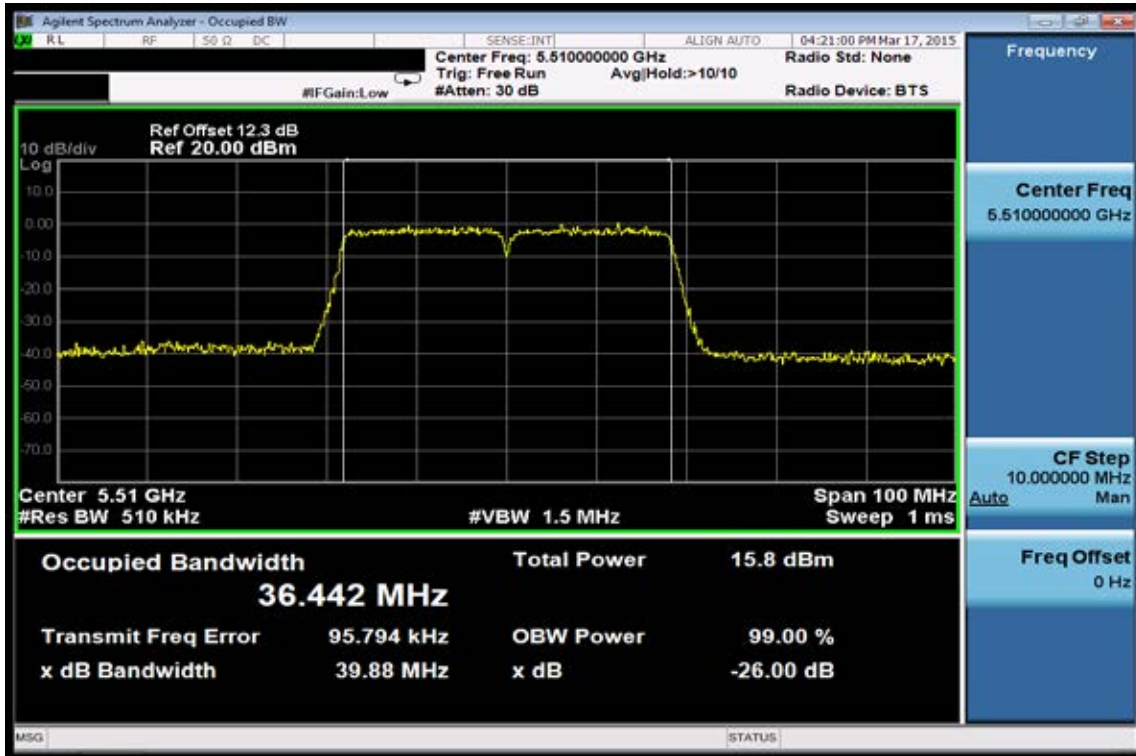
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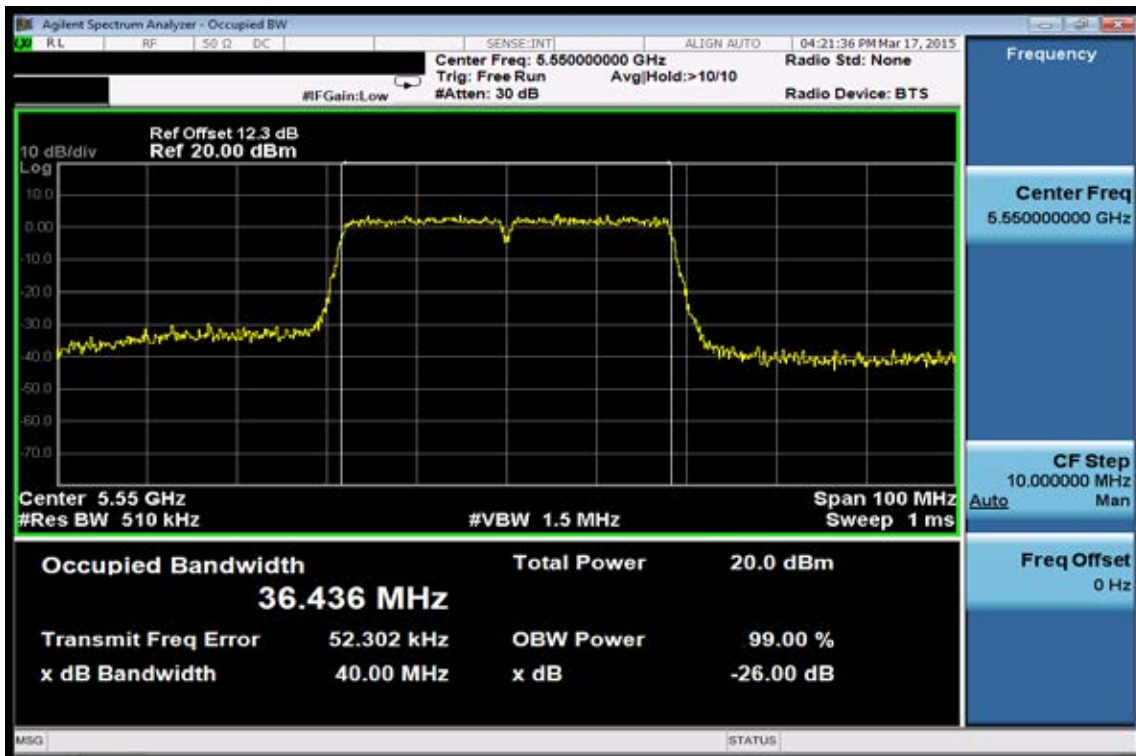
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802.11ac VHT40, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5510 MHz)



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



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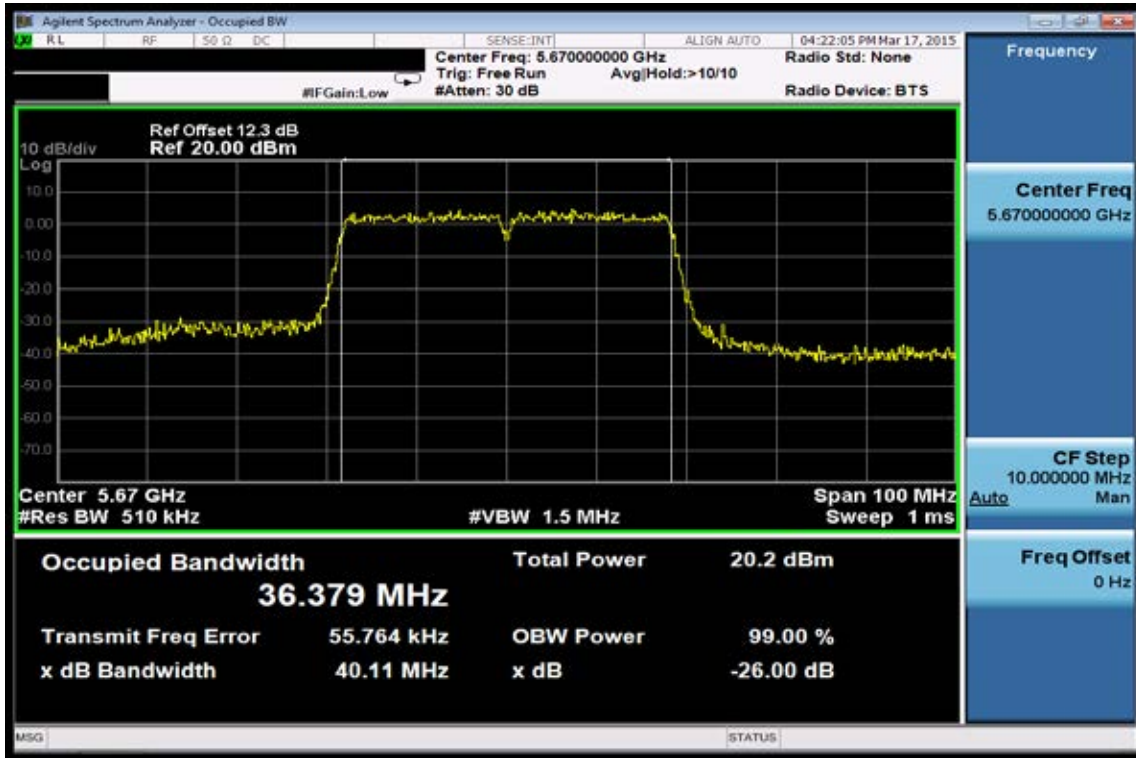
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26dB Band Width Test Data CH-High (5670 MHz)



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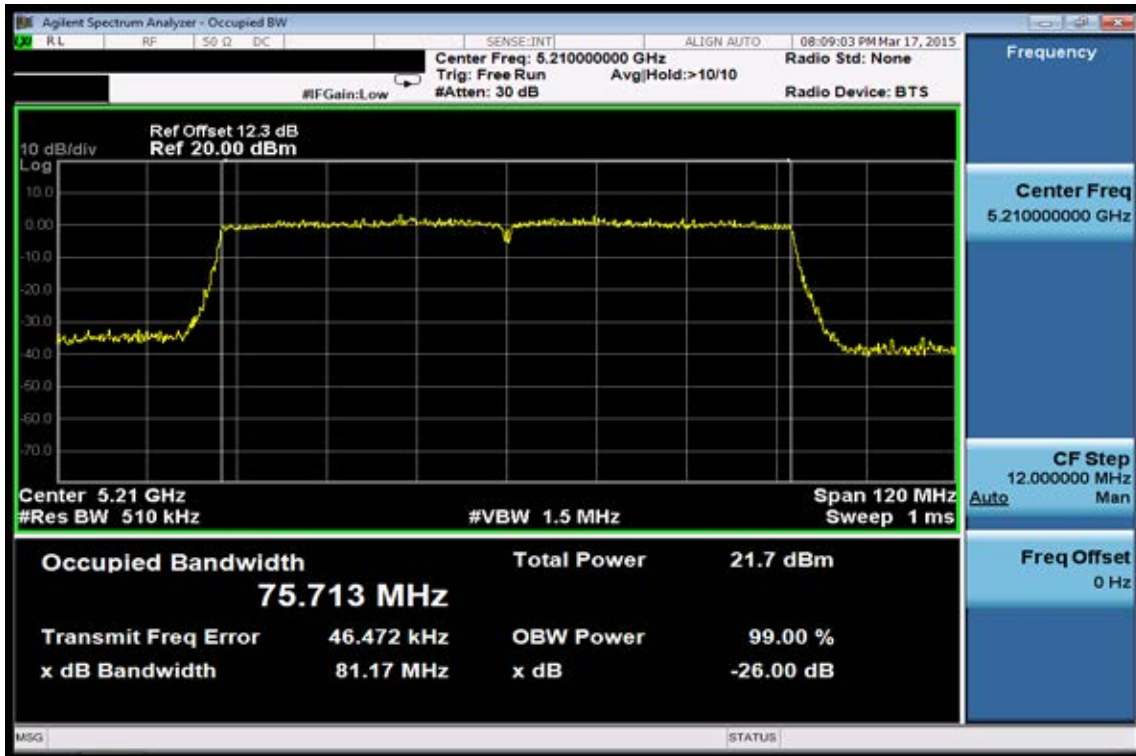
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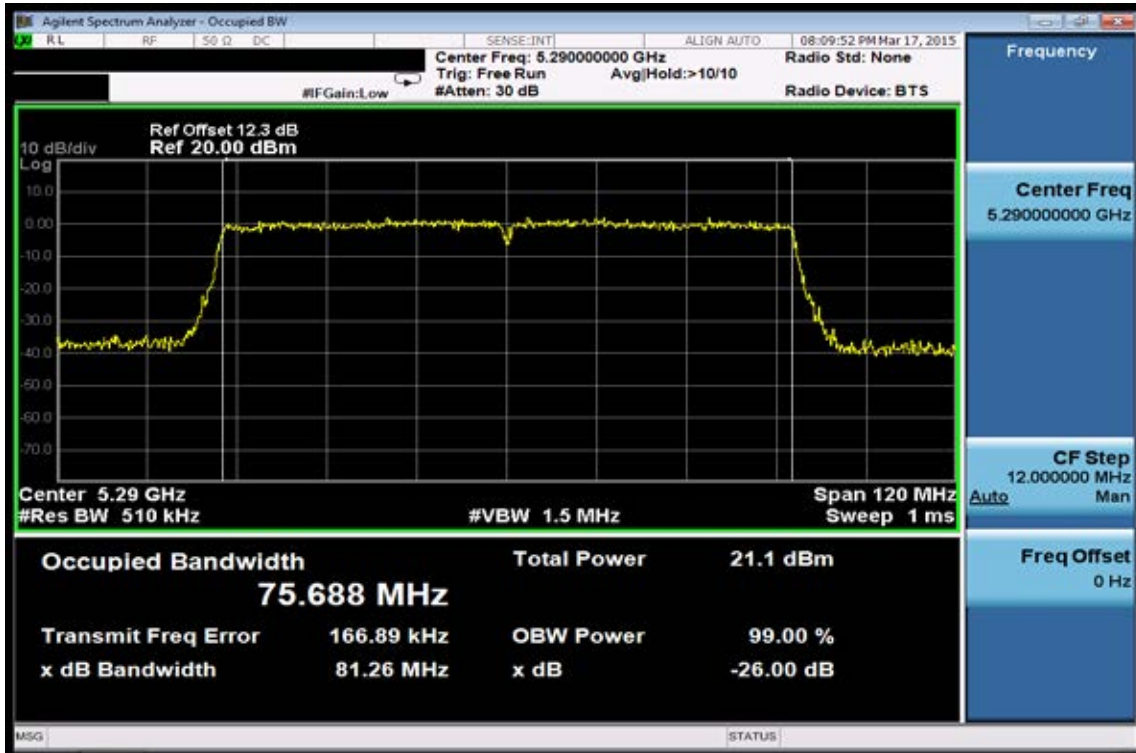
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802.11ac VHT80, 5150~5250 MHz
26dB Band Width Test Data CH-Mid (5210 MHz)



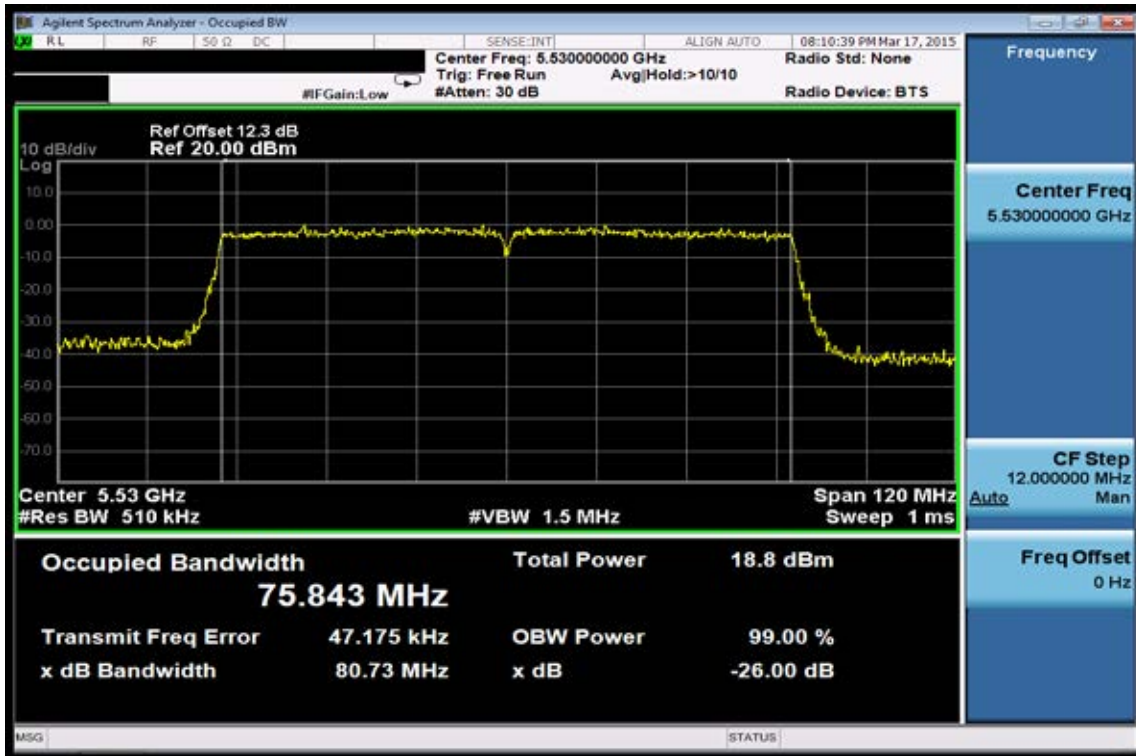
802.11ac VHT80, 5250~5350 MHz
26dB Band Width Test Data CH-Mid (5290 MHz)



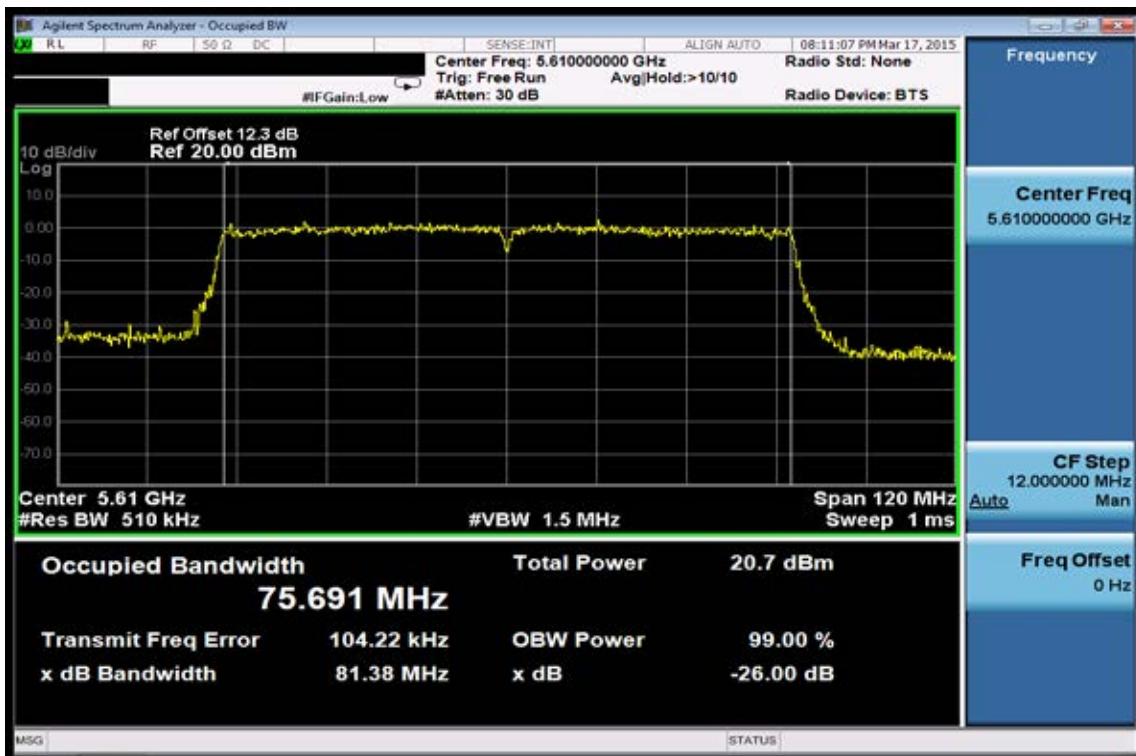
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802.11ac VHT80, 5470~5725 MHz
26dB Band Width Test Data CH-Low (5530 MHz)



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

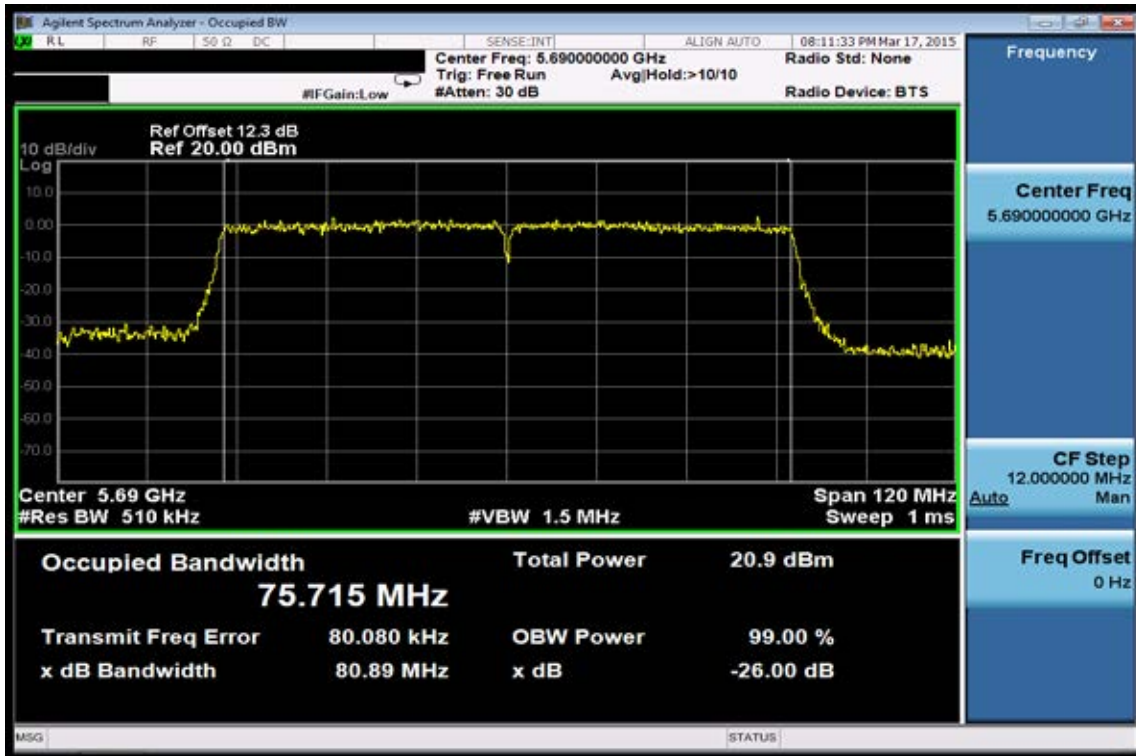


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26dB Band Width Test Data CH-High (5690 MHz)



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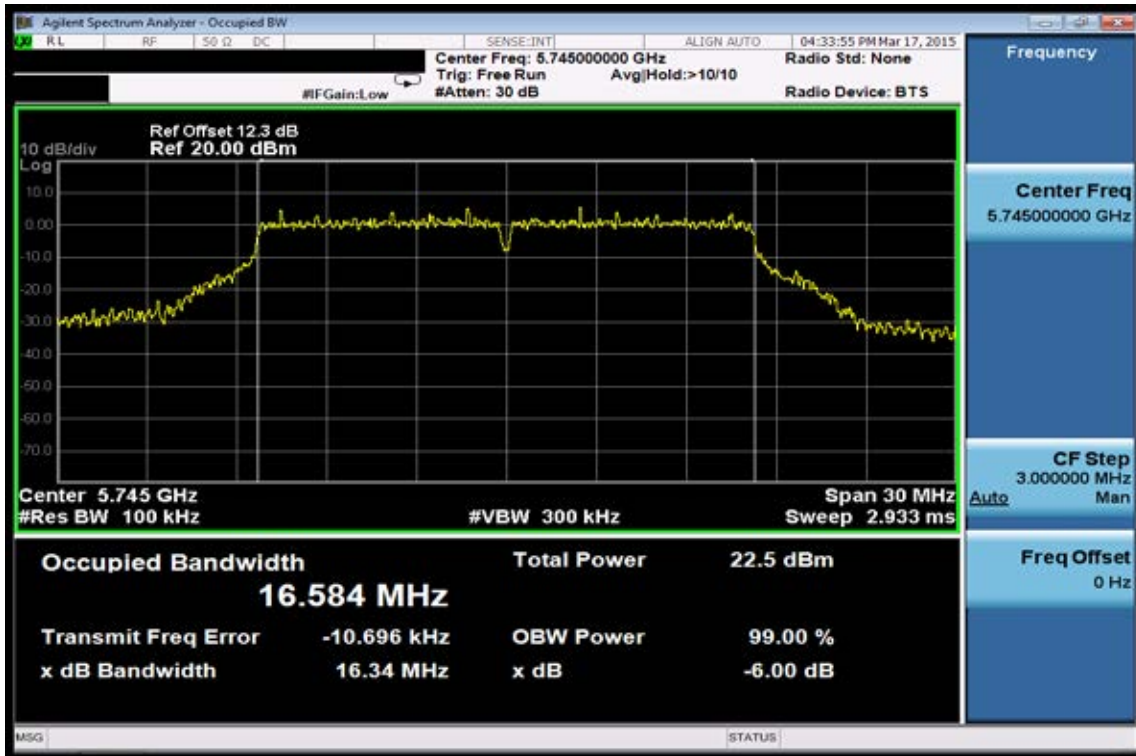
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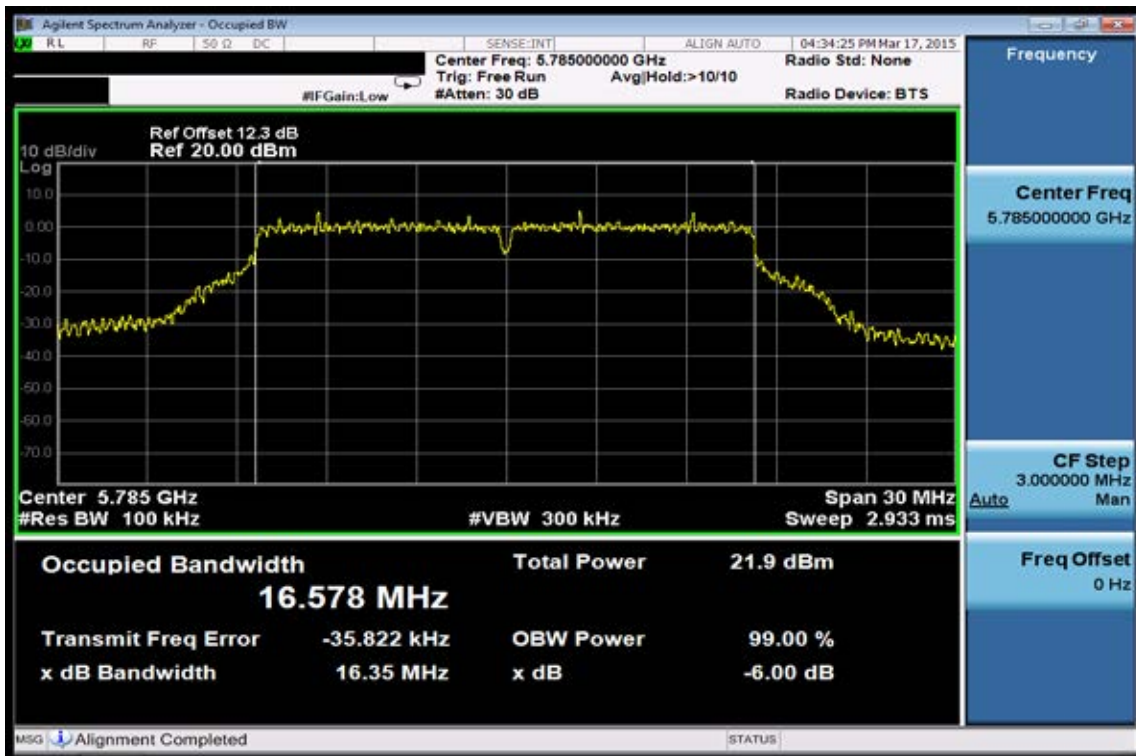
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802.11a, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



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



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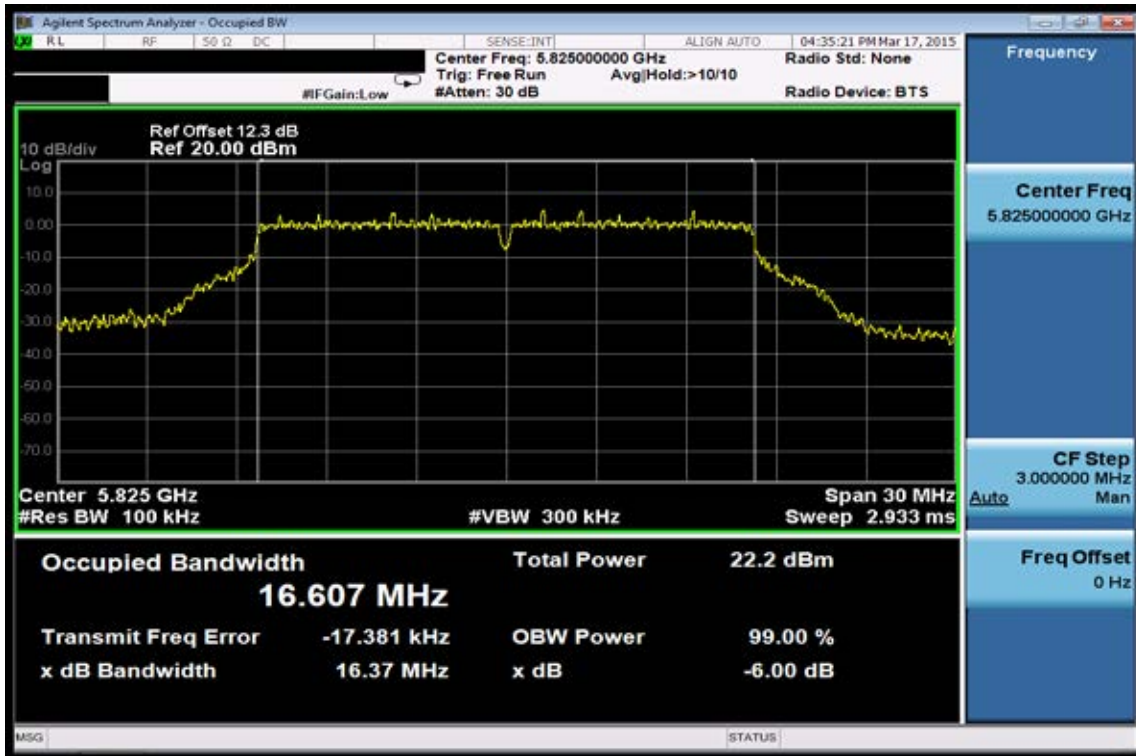
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6dB Band Width Test Data CH-High (5825 MHz)



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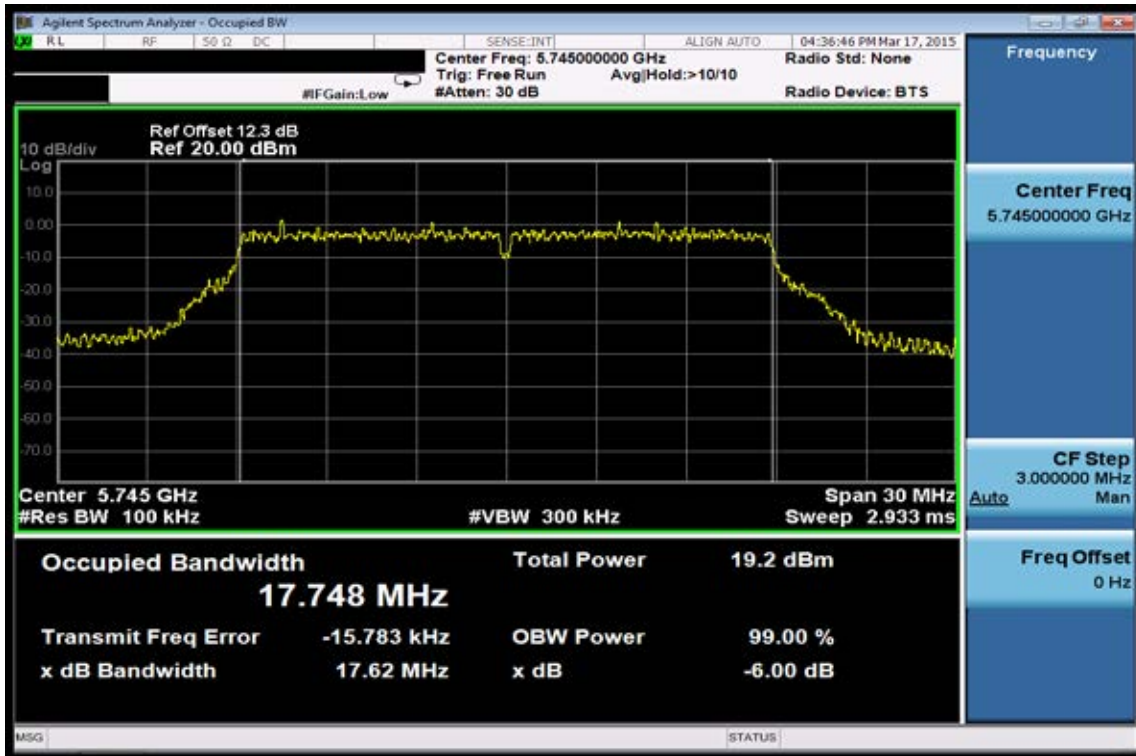
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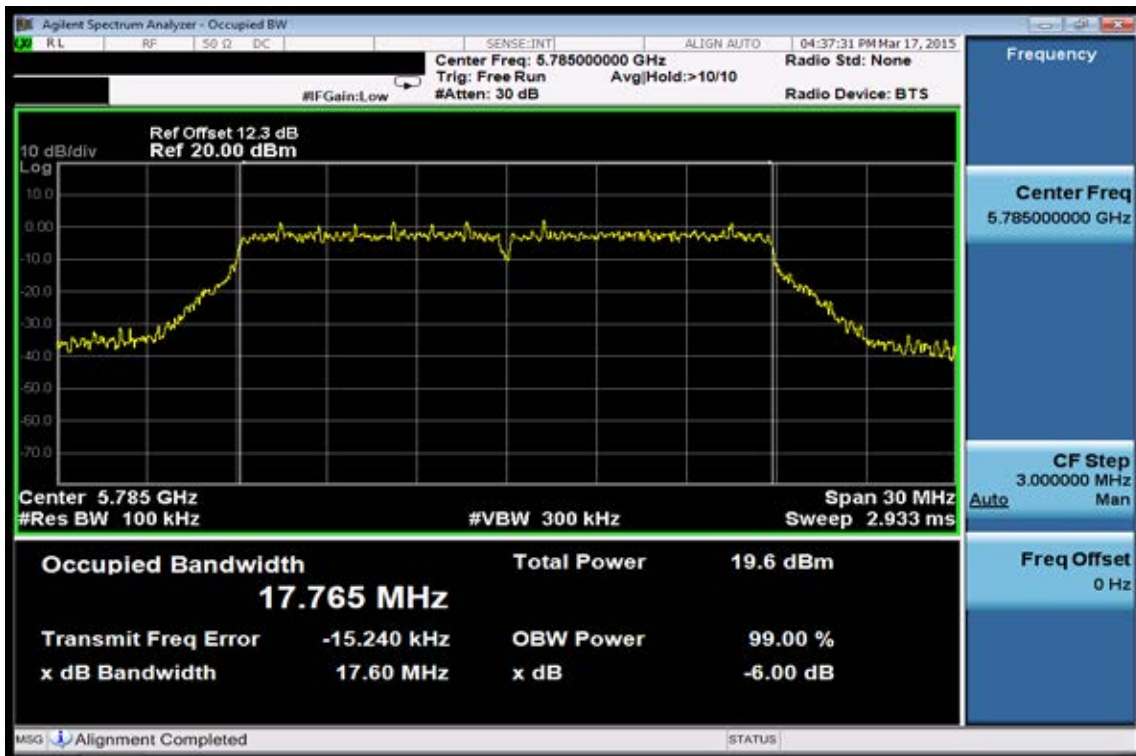
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802.11ac VHT20, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)



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

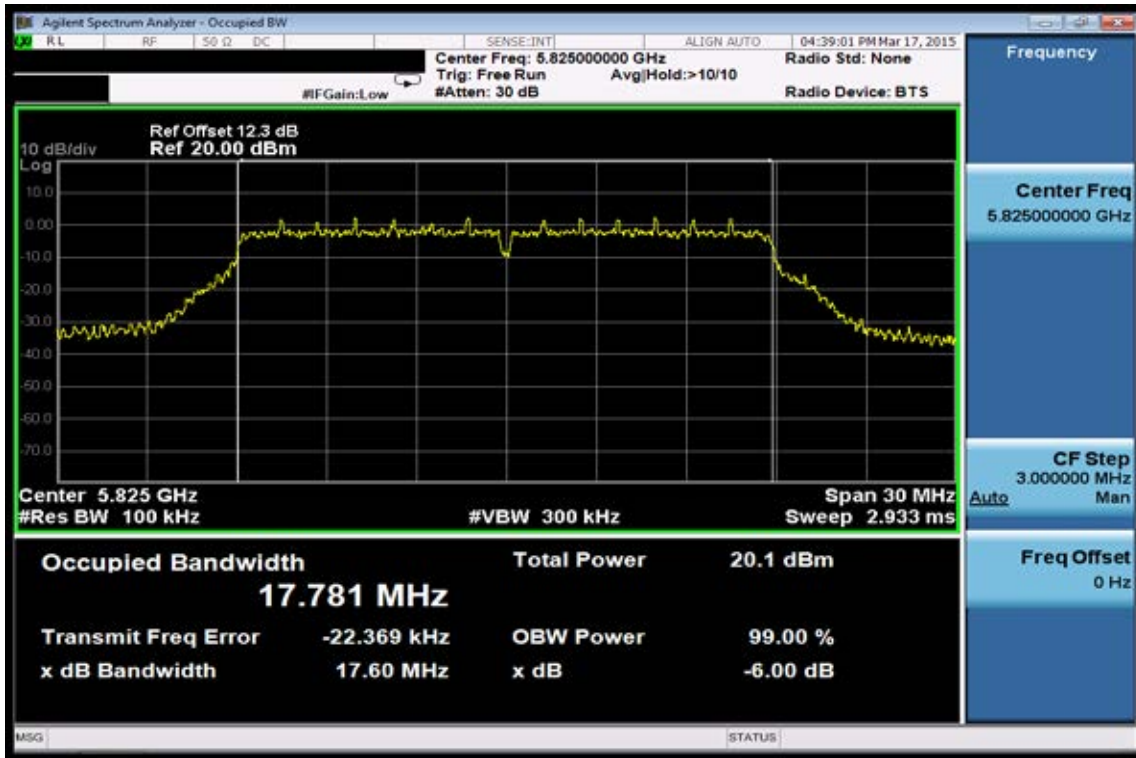


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6dB Band Width Test Data CH-High (5825 MHz)



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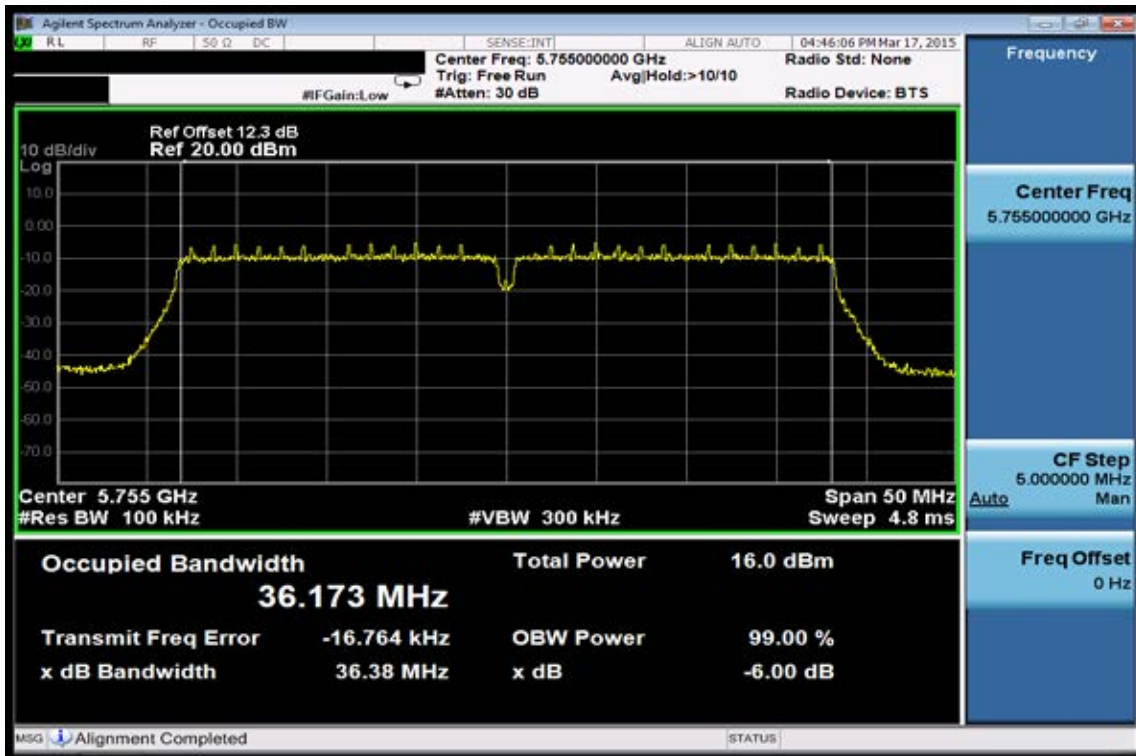
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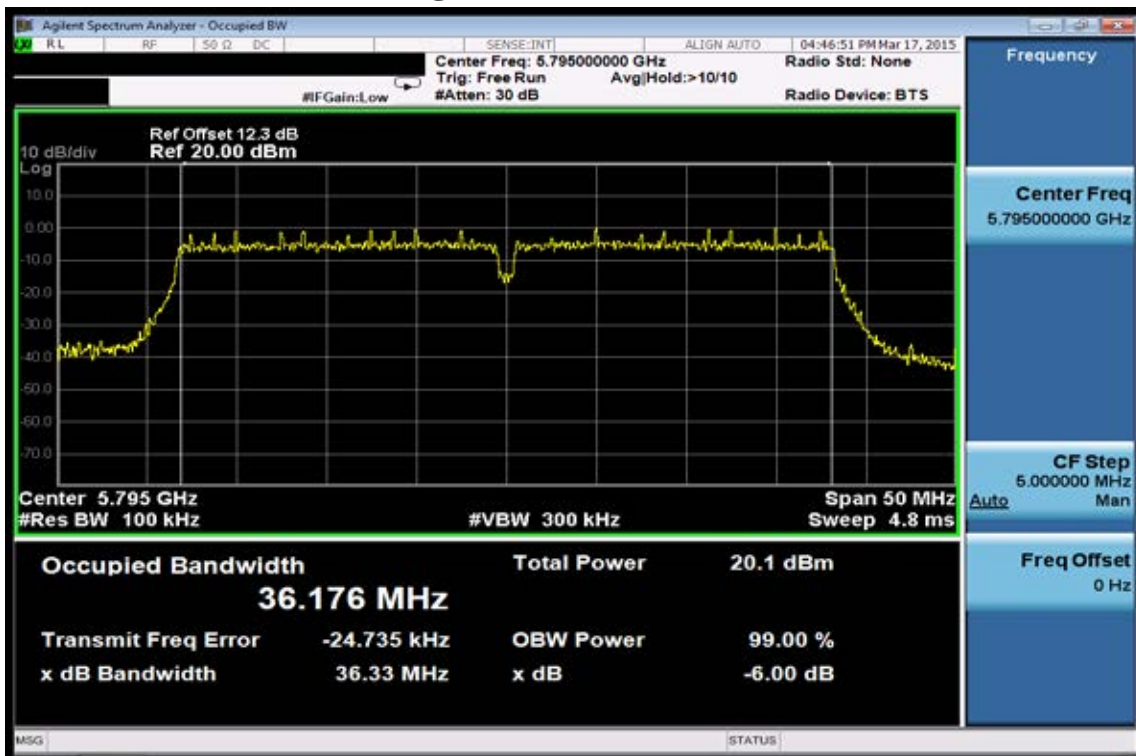
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802.11ac VHT40, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5755 MHz)



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



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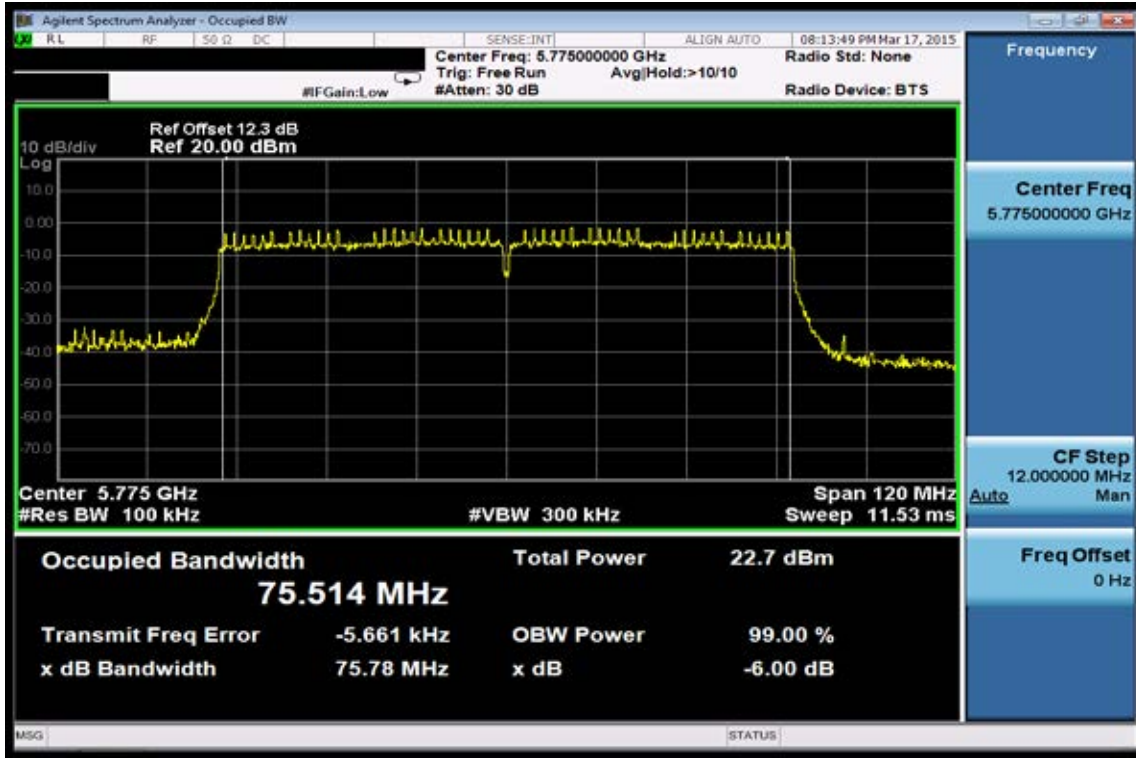
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802.11ac VHT80, 5725~5850 MHz
 6dB Band Width Test Data CH-Low (5775 MHz)



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

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

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

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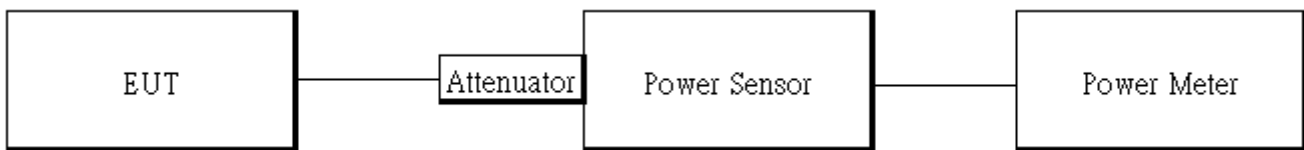
9.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

9.3 Measurement Equipment Used

Refer to section 8.3 for details.

9.4 Test Set-up



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9.5 Measurement Result

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.22	16.672	23.98	PASS
44	5220	12.3	16.982	23.98	PASS
48	5240	12.22	16.672	23.98	PASS
52	5260	12.94	19.679	23.98 or 11+10log(B) =24.33	PASS
60	5300	13.13	20.559	23.98 or 11+10log(B) =24.31	PASS
64	5320	13.08	20.324	23.98 or 11+10log(B) =24.27	PASS
100	5500	13.96	24.889	23.98 or 11+10log(B) =24.36	PASS
116	5580	14.47	27.990	23.98 or 11+10log(B) =24.32	PASS
140	5700	14.22	26.424	23.98 or 11+10log(B) =24.31	PASS
149	5745	13.99	25.061	30	PASS
157	5785	13.71	23.496	30	PASS
165	5825	13.86	24.322	30	PASS

802.11n_HT20

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	10.01	10.023	23.98	PASS
44	5220	10.11	10.257	23.98	PASS
48	5240	10.01	10.023	23.98	PASS
52	5260	10.56	11.376	23.98 or 11+10log(B) =24.36	PASS
60	5300	10.83	12.106	23.98 or 11+10log(B) =24.35	PASS
64	5320	10.81	12.050	23.98 or 11+10log(B) =24.33	PASS
100	5500	12.28	16.904	23.98 or 11+10log(B) =24.33	PASS
116	5580	12.19	16.558	23.98 or 11+10log(B) =24.34	PASS
140	5700	12.18	16.520	23.98 or 11+10log(B) =24.35	PASS
149	5745	12.14	16.368	30	PASS
157	5785	11.84	15.276	30	PASS
165	5825	11.87	15.382	30	PASS

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802.11ac_VHT20

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.03	12.677	23.98	PASS
44	5220	11.09	12.853	23.98	PASS
48	5240	11.01	12.618	23.98	PASS
52	5260	11.55	14.289	23.98 or $11+10\log(B) = 24.36$	PASS
60	5300	12.11	16.255	23.98 or $11+10\log(B) = 24.35$	PASS
64	5320	12.06	16.069	23.98 or $11+10\log(B) = 24.33$	PASS
100	5500	13.28	21.281	23.98 or $11+10\log(B) = 24.33$	PASS
116	5580	13.19	20.845	23.98 or $11+10\log(B) = 24.34$	PASS
140	5700	13.18	20.797	23.98 or $11+10\log(B) = 24.35$	PASS
149	5745	12.99	19.907	30	PASS
157	5785	12.77	18.923	30	PASS
165	5825	12.83	19.187	30	PASS

802.11n_HT40

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	7.75	5.957	23.98	PASS
46	5230	7.81	6.039	23.98	PASS
54	5270	8.06	6.397	21.47 or $11+10\log(B) = 27.07$	PASS
62	5310	8.13	6.501	21.47 or $11+10\log(B) = 27.04$	PASS
102	5510	9.61	9.141	21.47 or $11+10\log(B) = 27.01$	PASS
110	5550	9.62	9.162	21.47 or $11+10\log(B) = 27.02$	PASS
134	5670	9.53	8.974	21.47 or $11+10\log(B) = 27.03$	PASS
151	5755	9.14	8.204	30	PASS
159	5795	9.03	7.998	30	PASS

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802.11ac_VHT40

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	8.02	6.339	23.98	PASS
46	5230	8.00	6.310	23.98	PASS
54	5270	8.12	6.486	21.47 or $11+10\log(B) = 27.07$	PASS
62	5310	8.31	6.776	21.47 or $11+10\log(B) = 27.04$	PASS
102	5510	9.65	9.226	21.47 or $11+10\log(B) = 27.01$	PASS
110	5550	9.77	9.484	21.47 or $11+10\log(B) = 27.02$	PASS
134	5670	9.66	9.247	21.47 or $11+10\log(B) = 27.03$	PASS
151	5755	9.25	8.414	30	PASS
159	5795	9.01	7.962	30	PASS

802.11ac_VHT80

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	8.53	7.129	23.98	PASS
58	5290	8.69	7.396	21.47 or $11+10\log(B) = 27.07$	PASS
106	5530	10.91	12.331	21.47 or $11+10\log(B) = 27.04$	PASS
122	5610	11.01	12.618	21.47 or $11+10\log(B) = 27.01$	PASS
138	5690	10.66	11.641	21.47 or $11+10\log(B) = 27.02$	PASS
155	5775	9.56	9.036	30	PASS

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device)	17dBm/ MHz
		Fixed point-to-point Access Ponit	
	√	Mobile and portable clinet device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

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

10.2 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 v01.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 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)
- User the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all default test channel (low, middle, and high) was complete.

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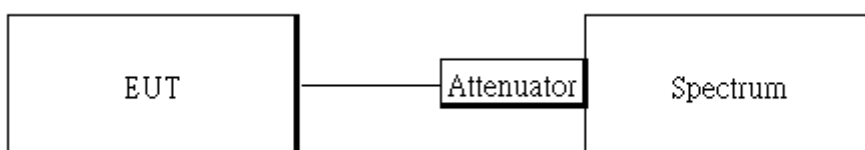
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10.3 Measurement Equipment Used

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

10.4 Test Set-up



10.5 Measurement Result

802.11a

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.12	11.00	-9.88
5220	0.70	11.00	-10.30
5240	2.50	11.00	-8.50
5260	1.99	11.00	-9.01
5300	0.52	11.00	-10.48
5320	1.56	11.00	-9.44
5500	1.26	11.00	-9.74
5580	1.35	11.00	-9.65
5700	-0.58	11.00	-11.58
5745	1.30	30.00	-28.70
5785	2.13	30.00	-27.87
5825	1.39	30.00	-28.61

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802.11ac VHT20

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.52	11.00	-12.52
5220	-1.27	11.00	-12.27
5240	-2.27	11.00	-13.27
5260	-3.03	11.00	-14.03
5300	-2.01	11.00	-13.01
5320	-2.52	11.00	-13.52
5500	-2.15	11.00	-13.15
5580	-2.91	11.00	-13.91
5700	-2.60	11.00	-13.60
5745	-0.97	30.00	-30.97
5785	-1.67	30.00	-31.67
5825	-0.85	30.00	-30.85

802.11ac VHT40

Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-6.50	11.00	-17.50
5230	-6.55	11.00	-17.55
5270	-7.74	11.00	-18.74
5310	-7.04	11.00	-18.04
5510	-10.81	11.00	-21.81
5550	-6.43	11.00	-17.43
5670	-5.91	11.00	-16.91
5755	-9.82	30.00	-39.82
5795	-7.20	30.00	-37.20

802.11ac VHT80

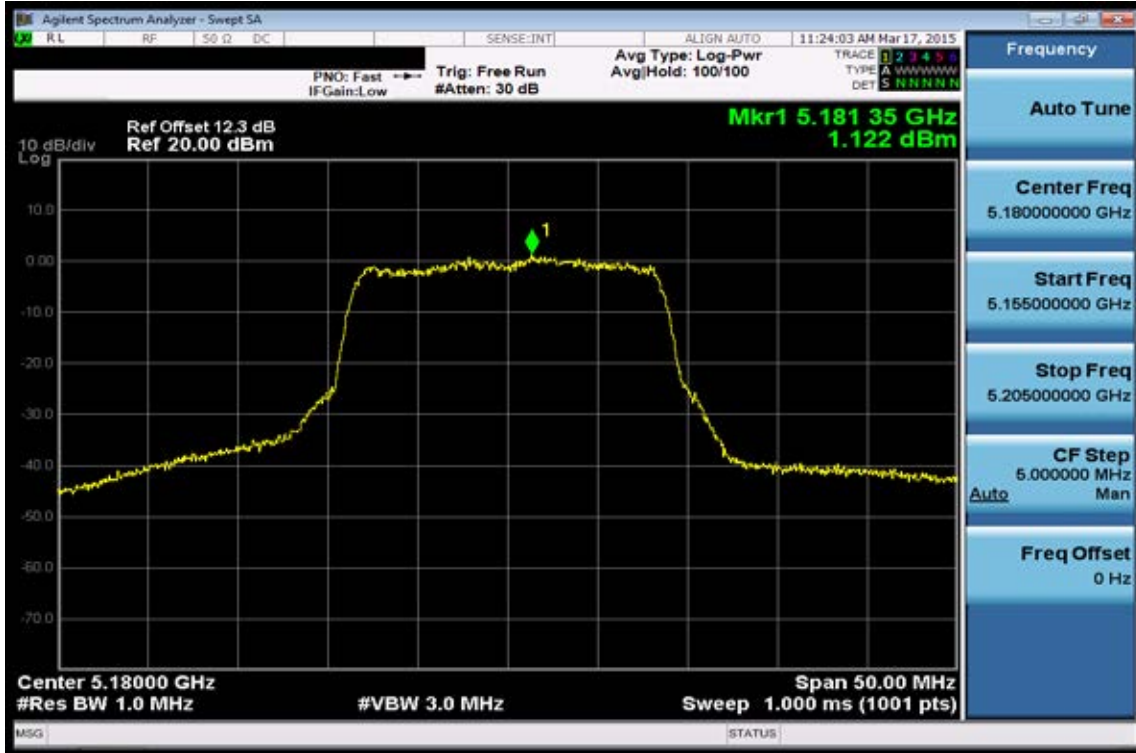
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-13.38	11.00	-24.38
5290	-11.63	11.00	-22.63
5530	-15.18	11.00	-26.18
5610	-13.97	11.00	-24.97
5690	-13.07	11.00	-24.07
5775	-12.11	30.00	-42.11

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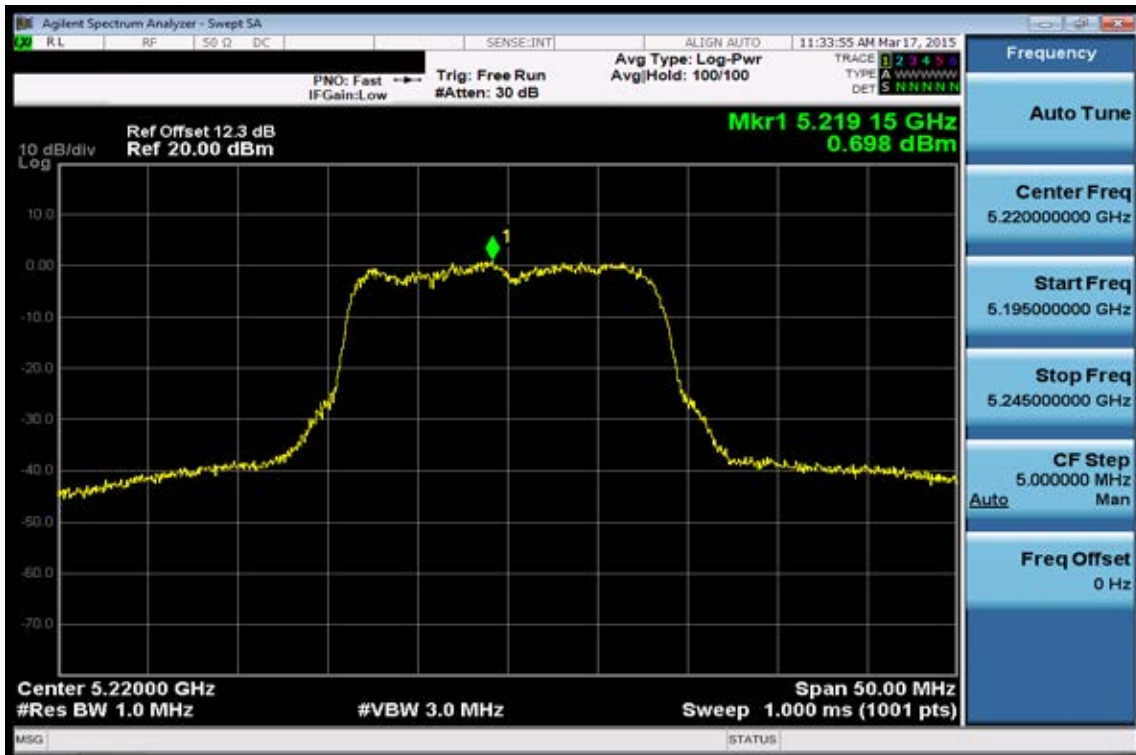
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802.11a, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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



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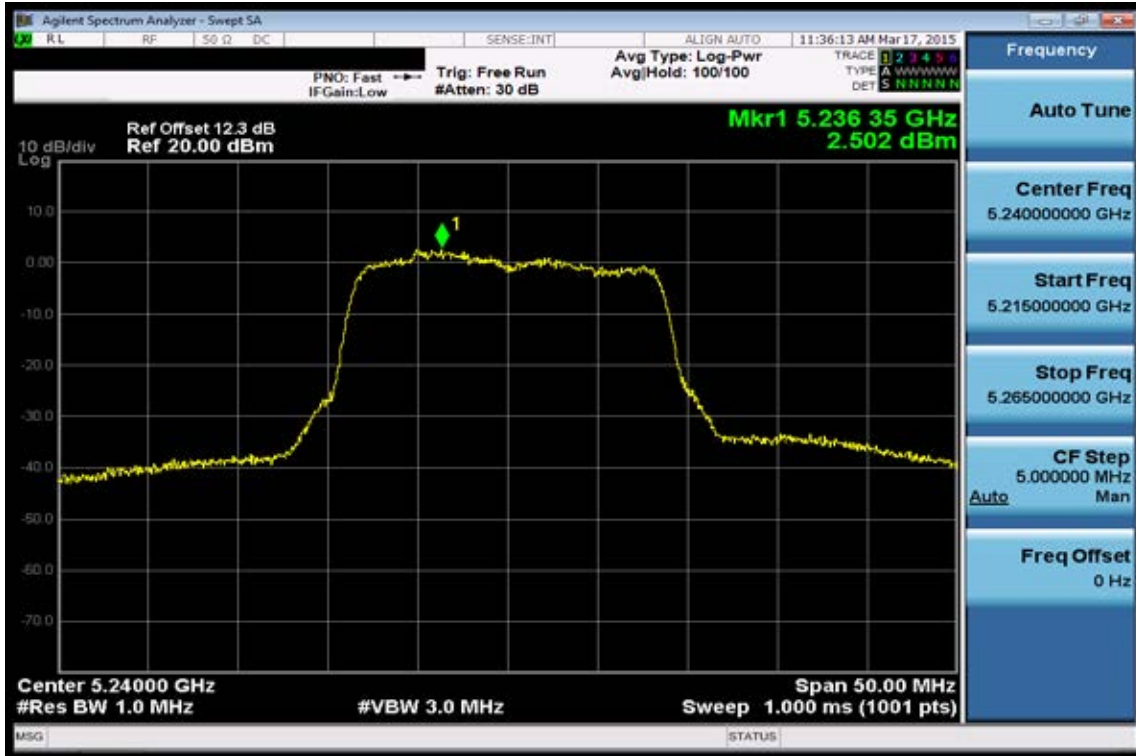
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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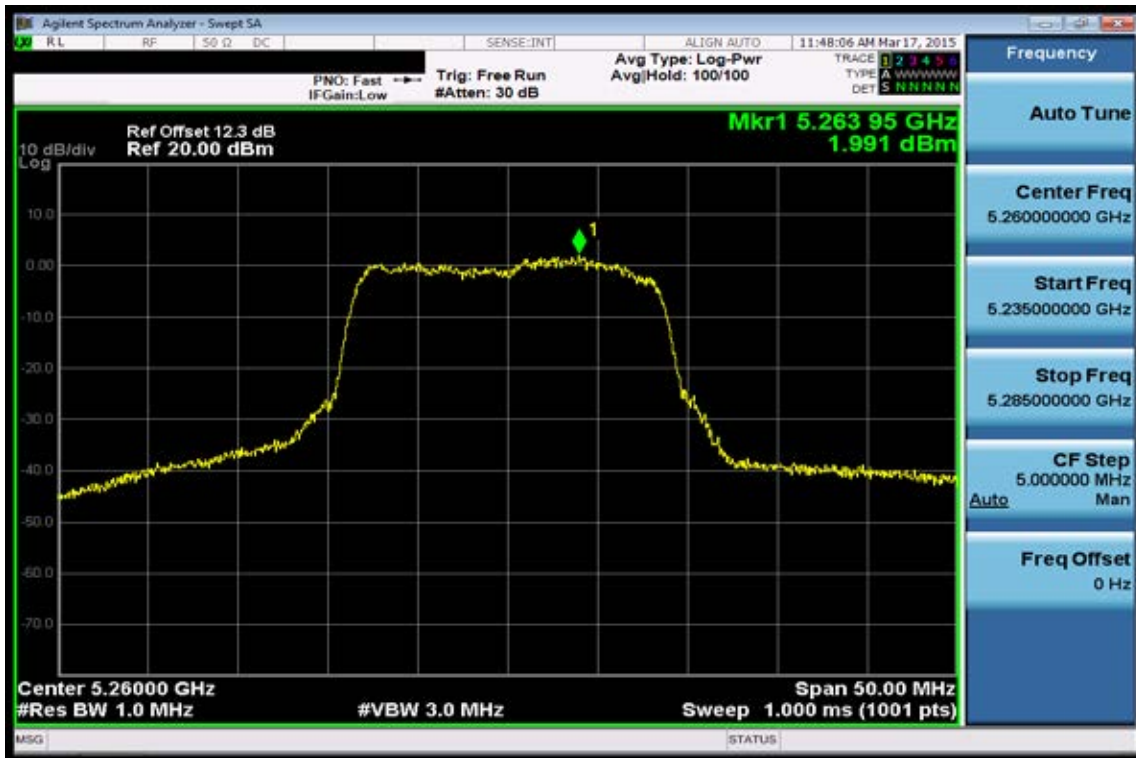
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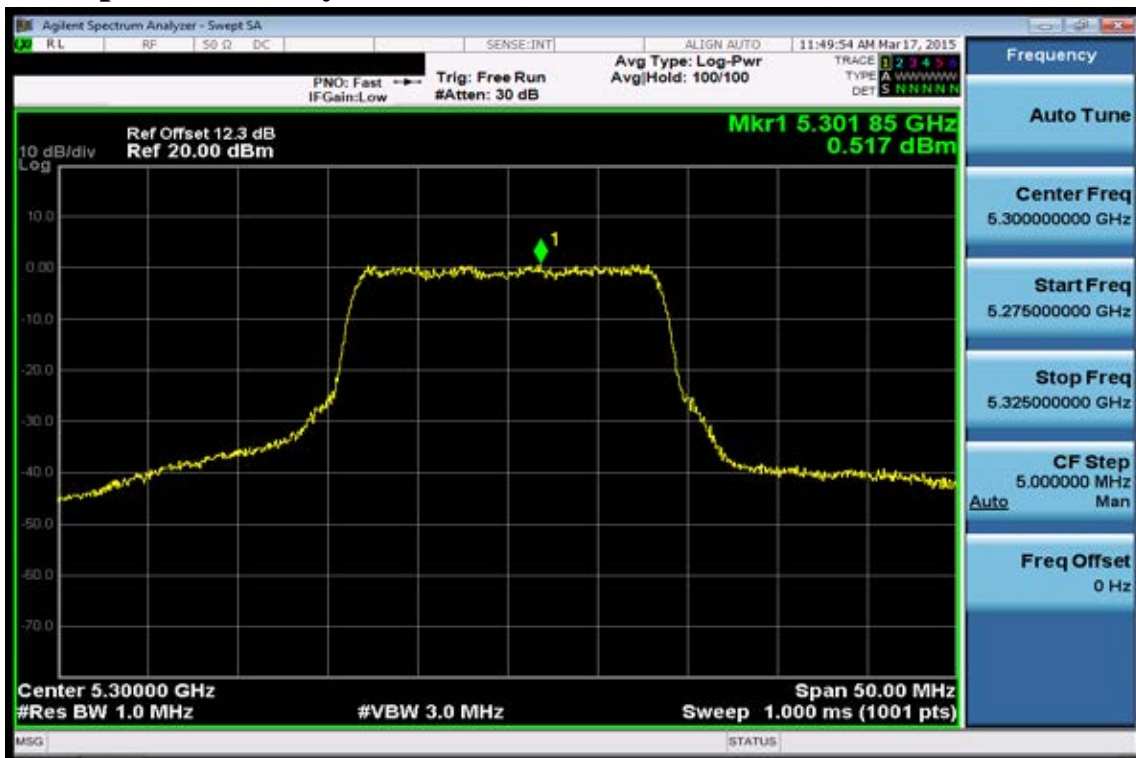
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802.11a, 5250~5350 MHz

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



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



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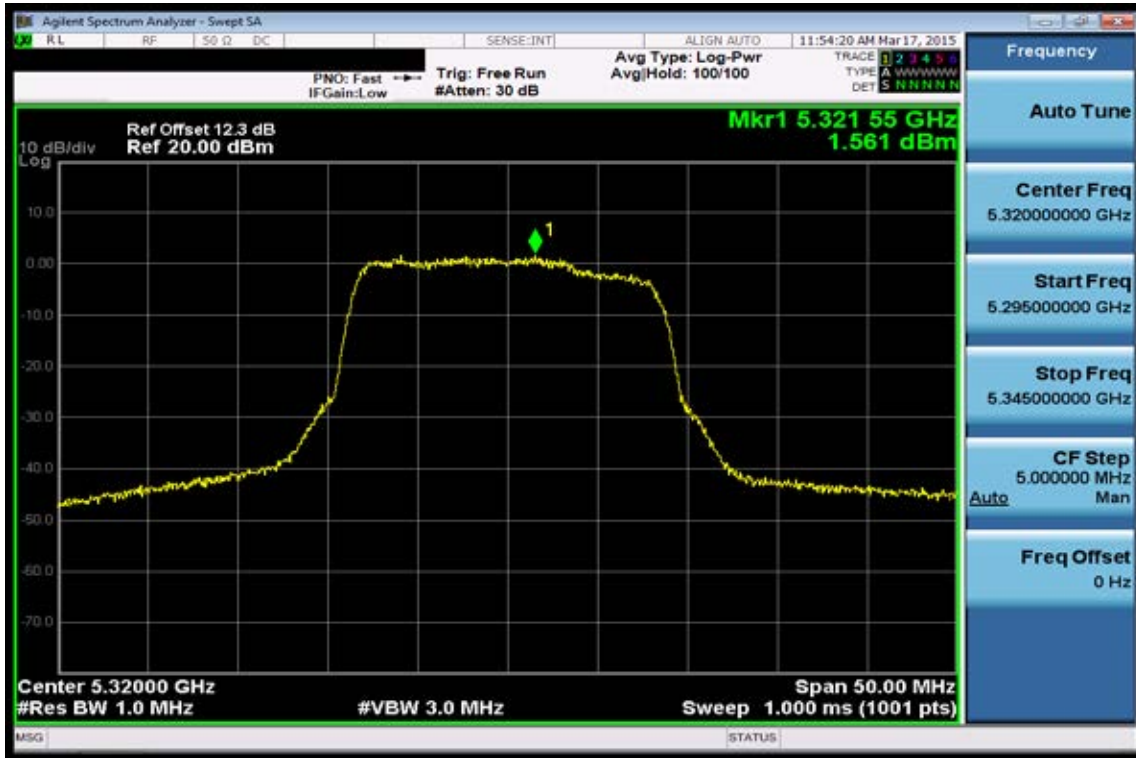
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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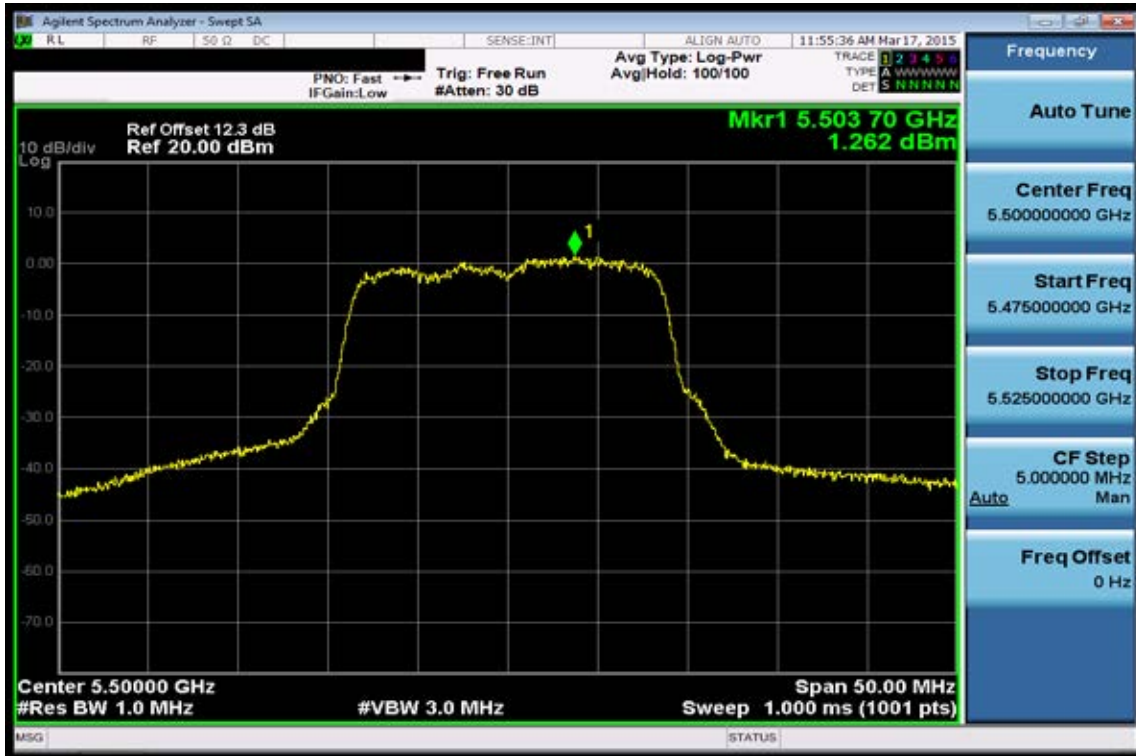
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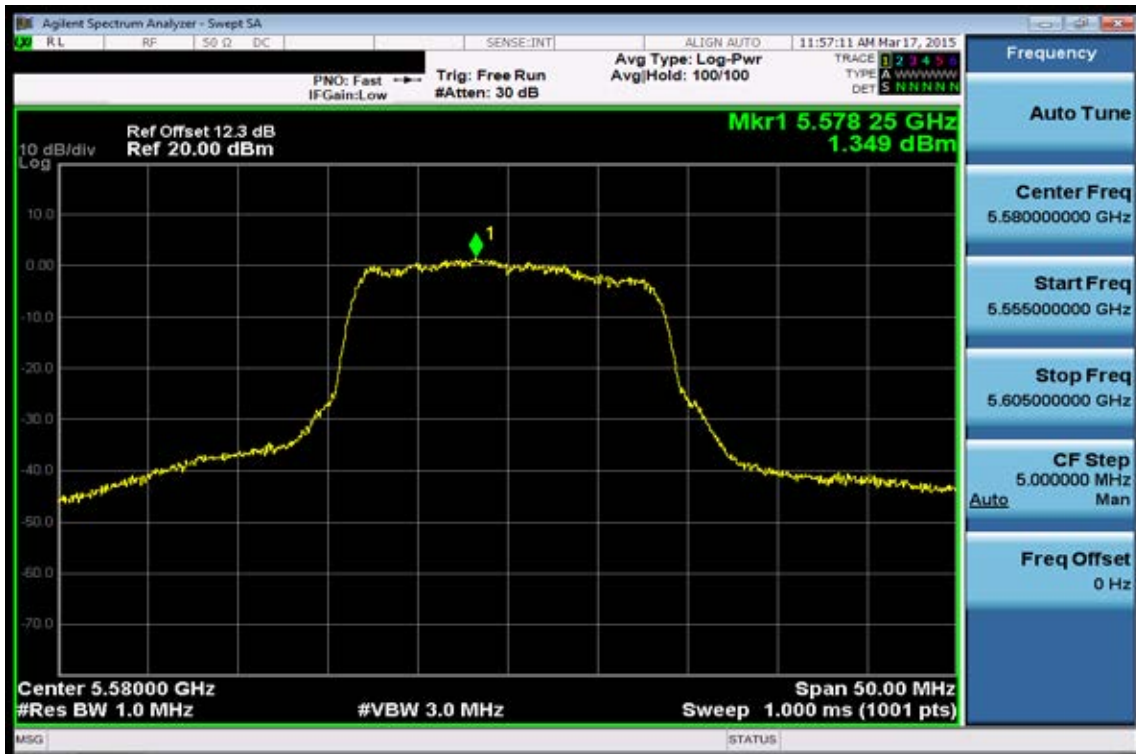
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802.11a, 5470~5725 MHz

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



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



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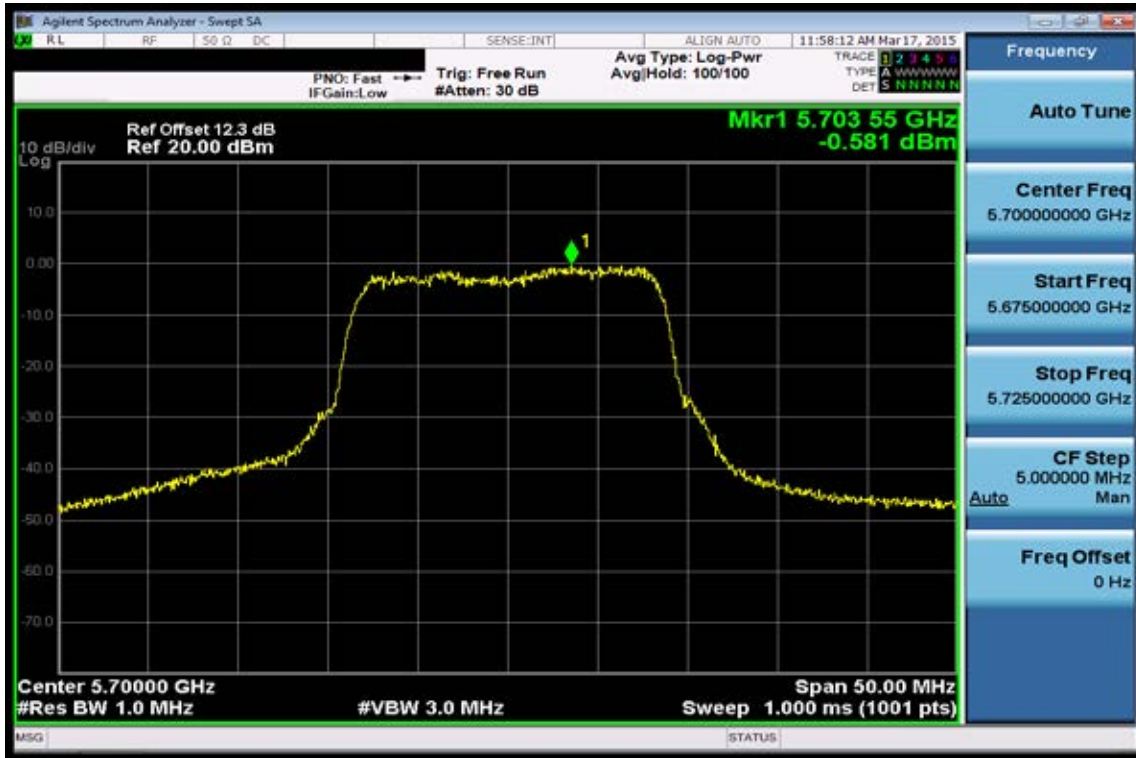
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



802.11a, 5725~5850 MHz

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



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



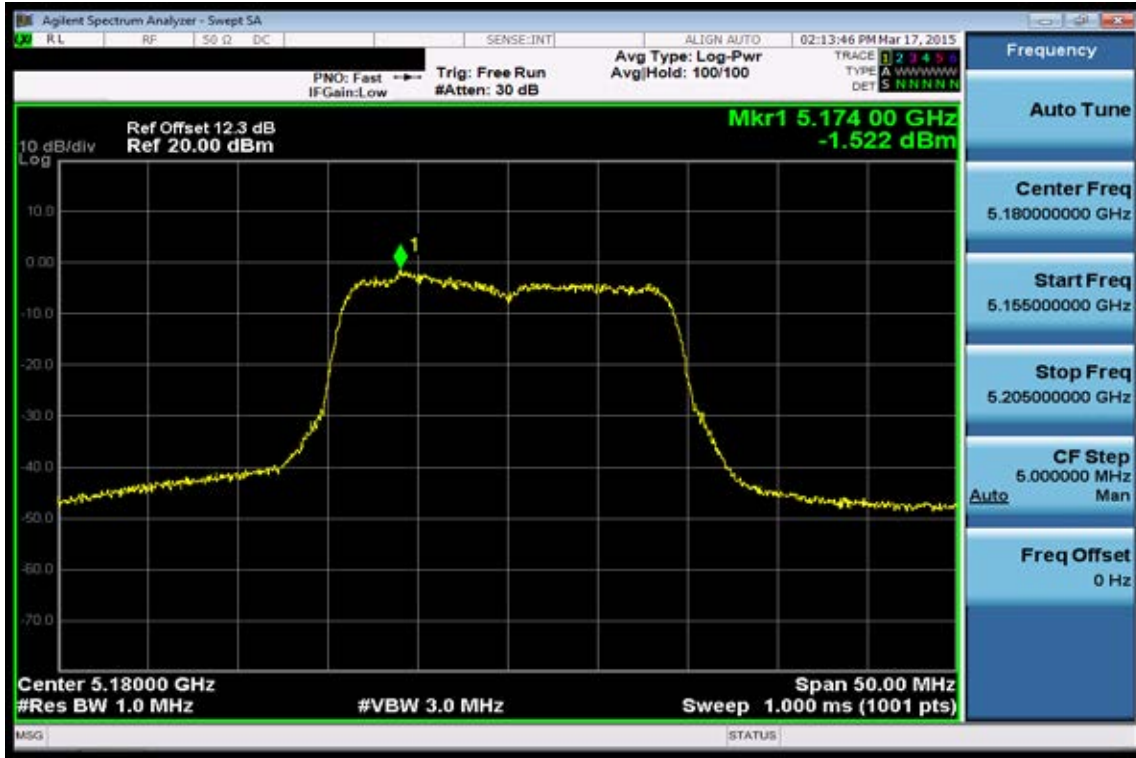
Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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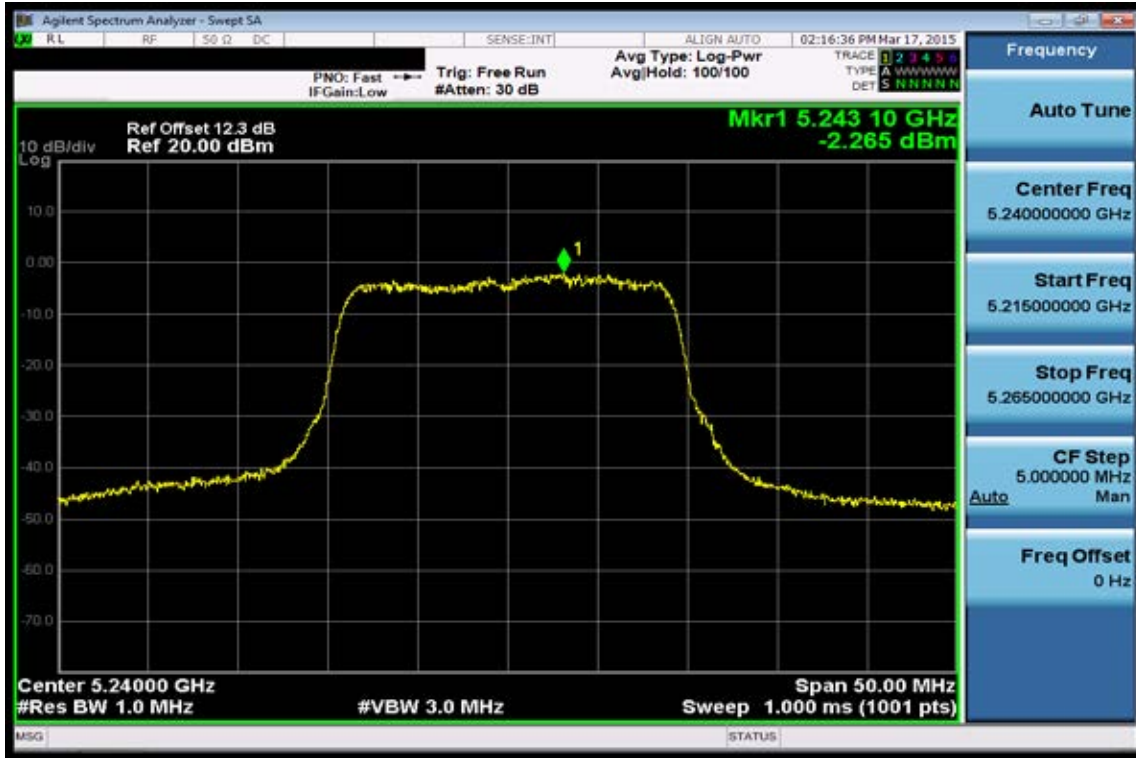
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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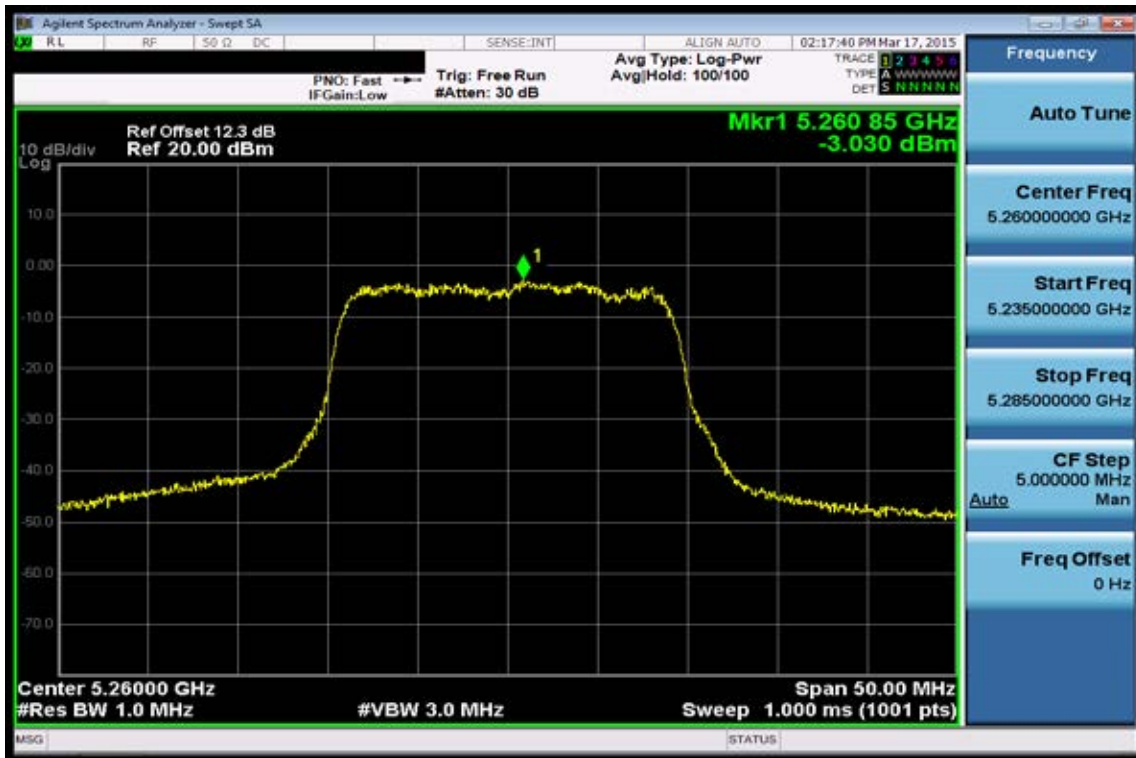
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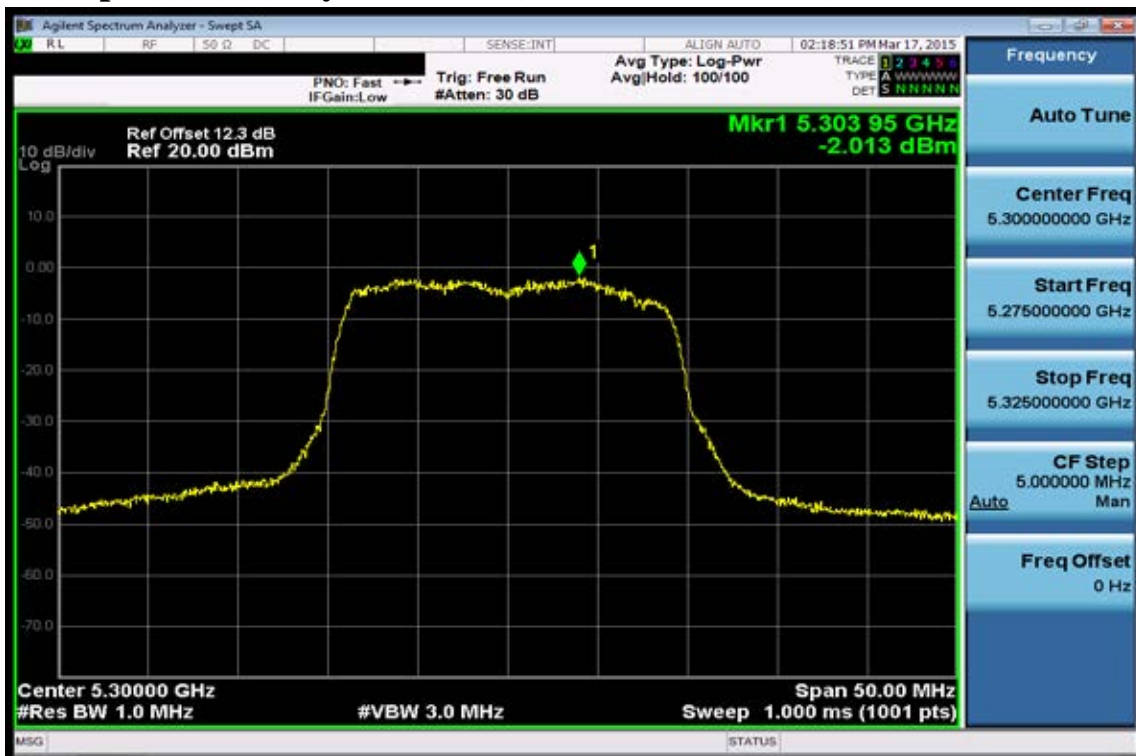
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802.11ac VHT20, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5260MHz)



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

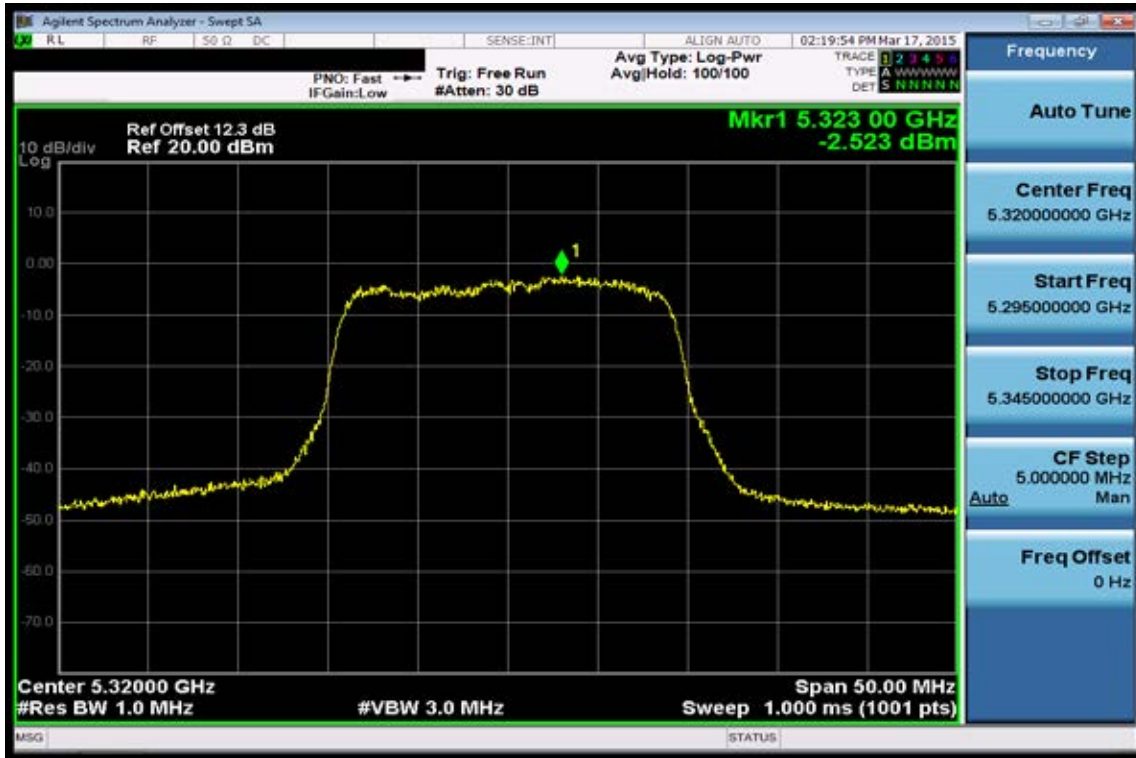


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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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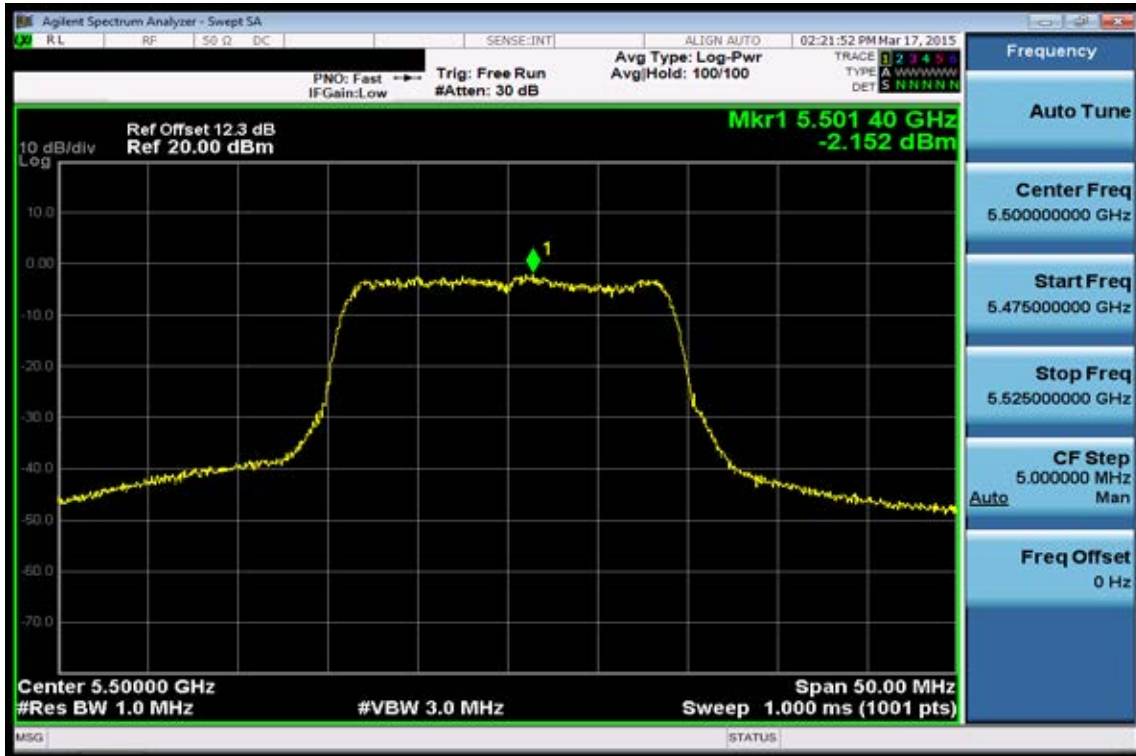
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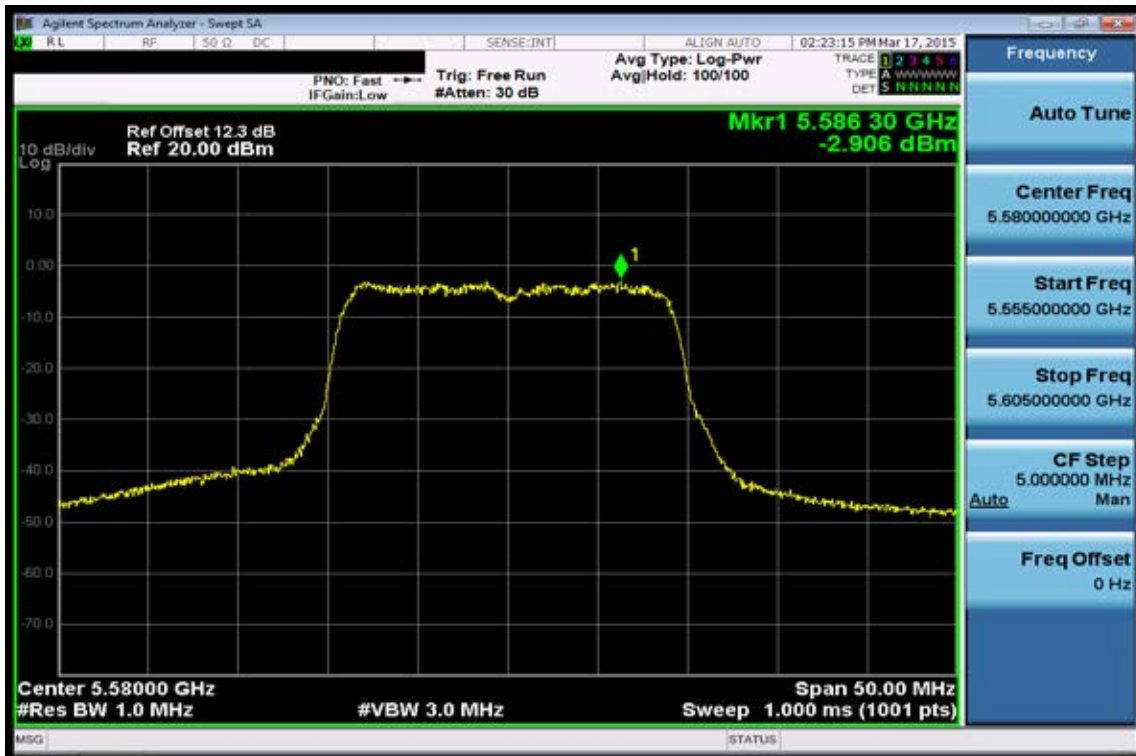
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802.11ac VHT20, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5500 MHz)



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



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



802.11ac VHT20, 5725~5850 MHz

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



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



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



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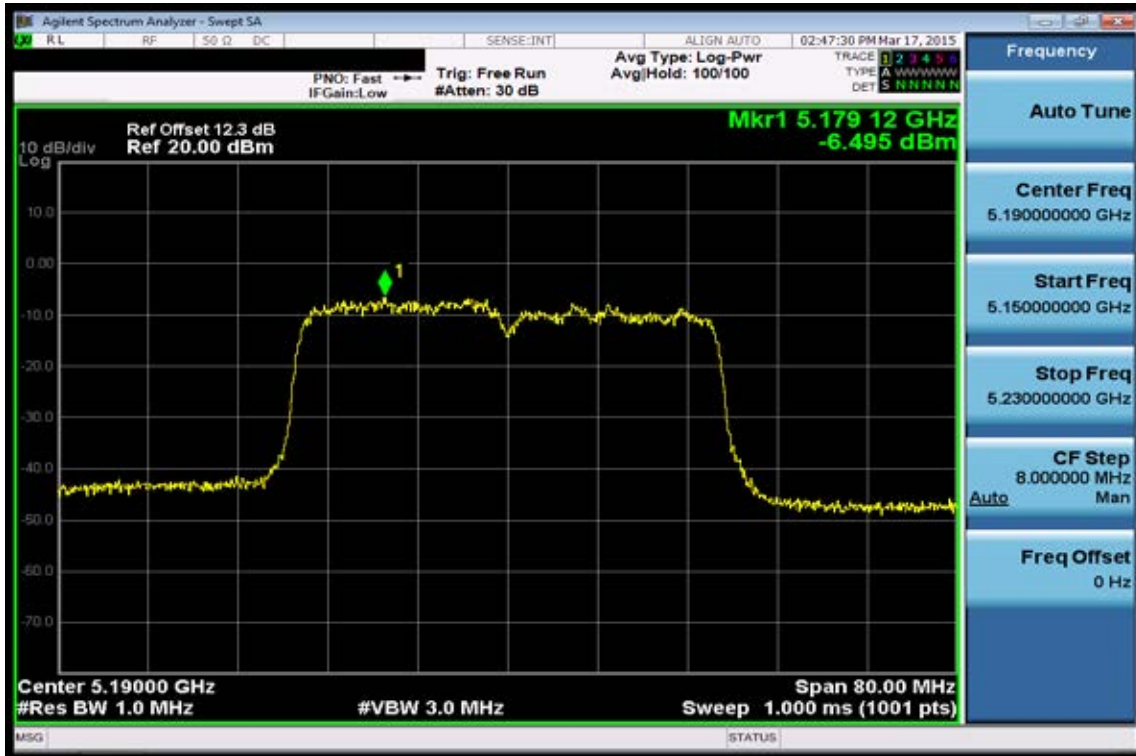
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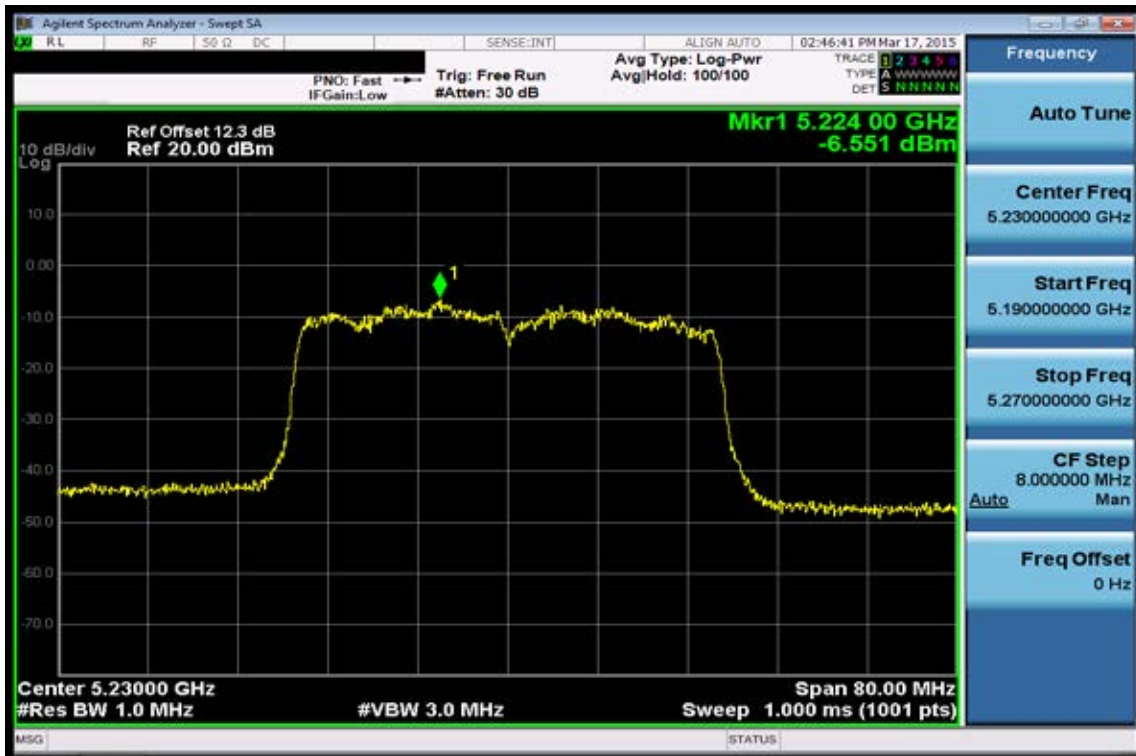
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802.11ac VHT40, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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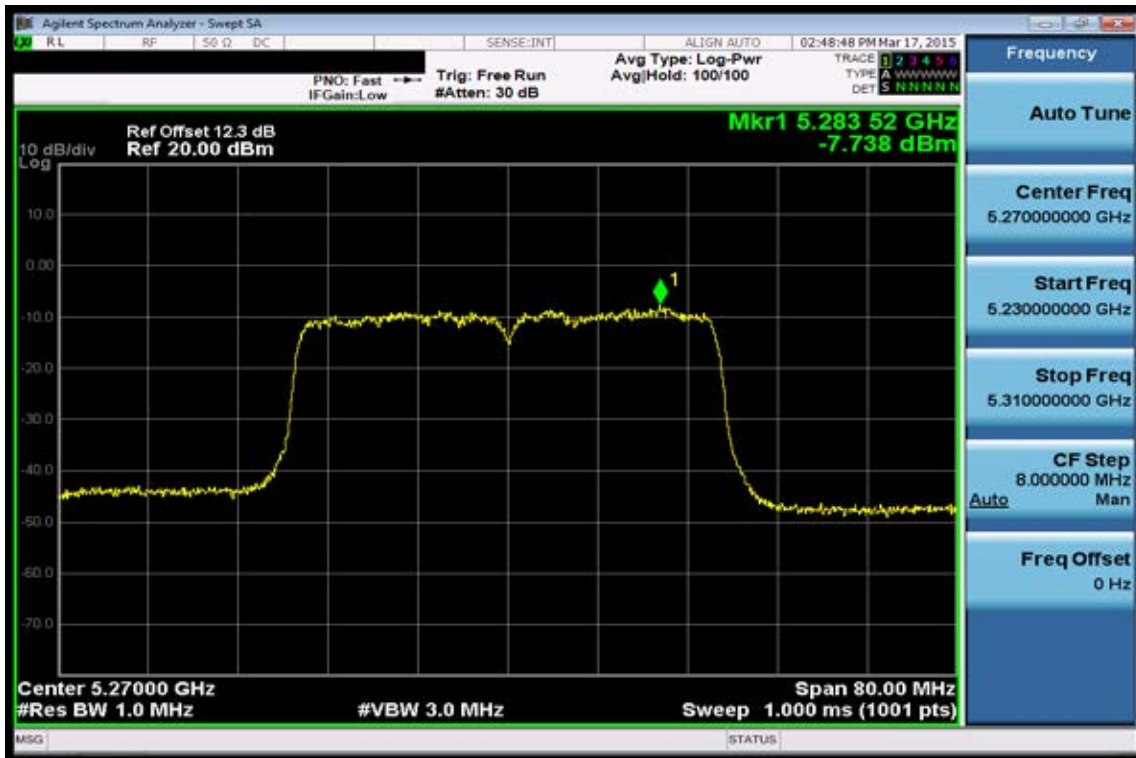
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802.11ac VHT40, 5250~5350 MHz
Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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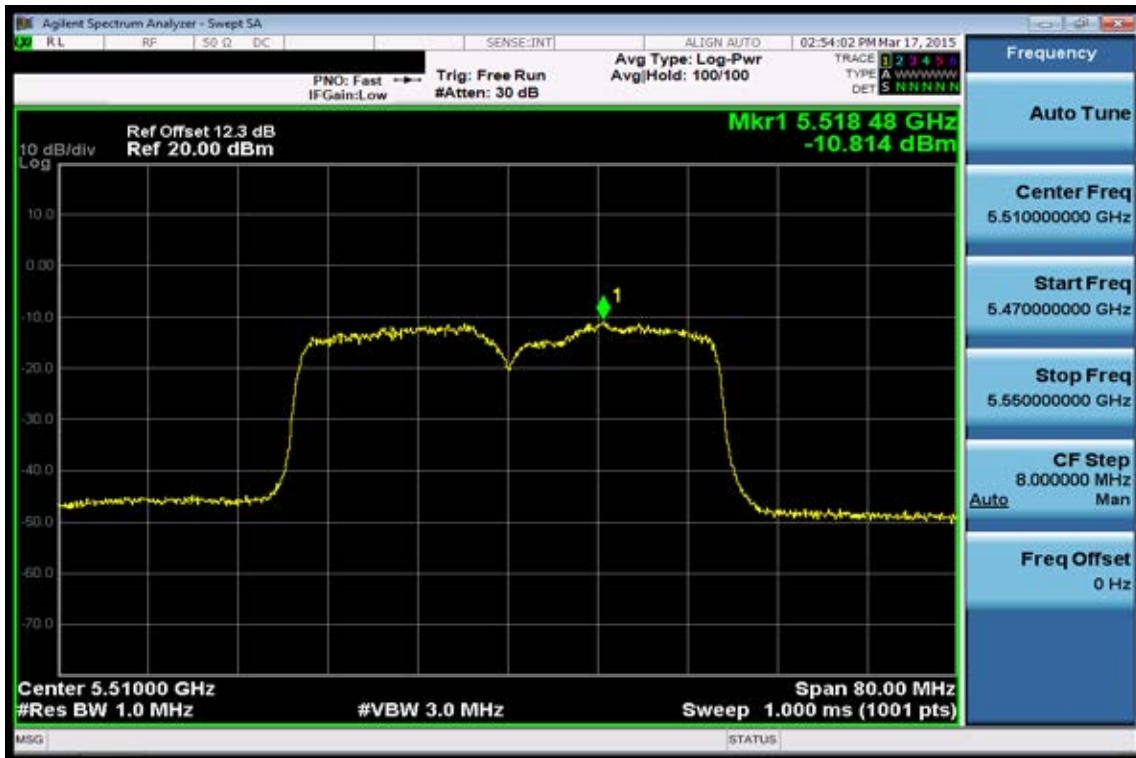
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802.11802.11ac VHT40, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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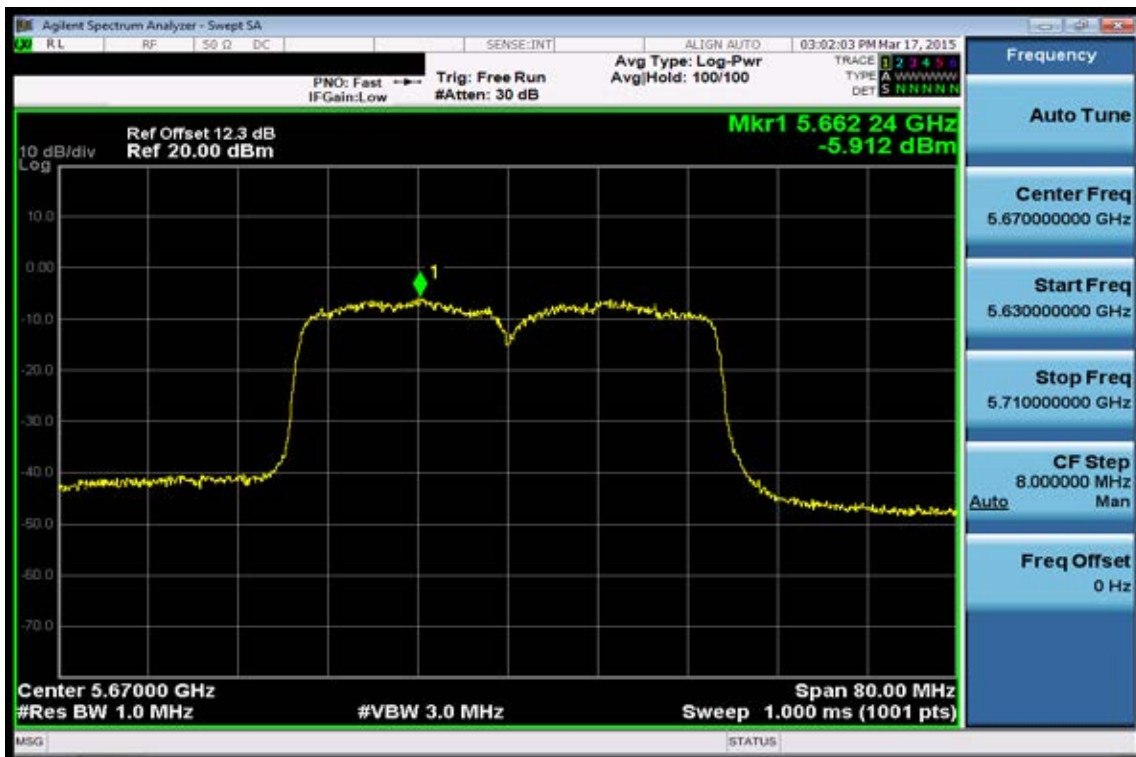
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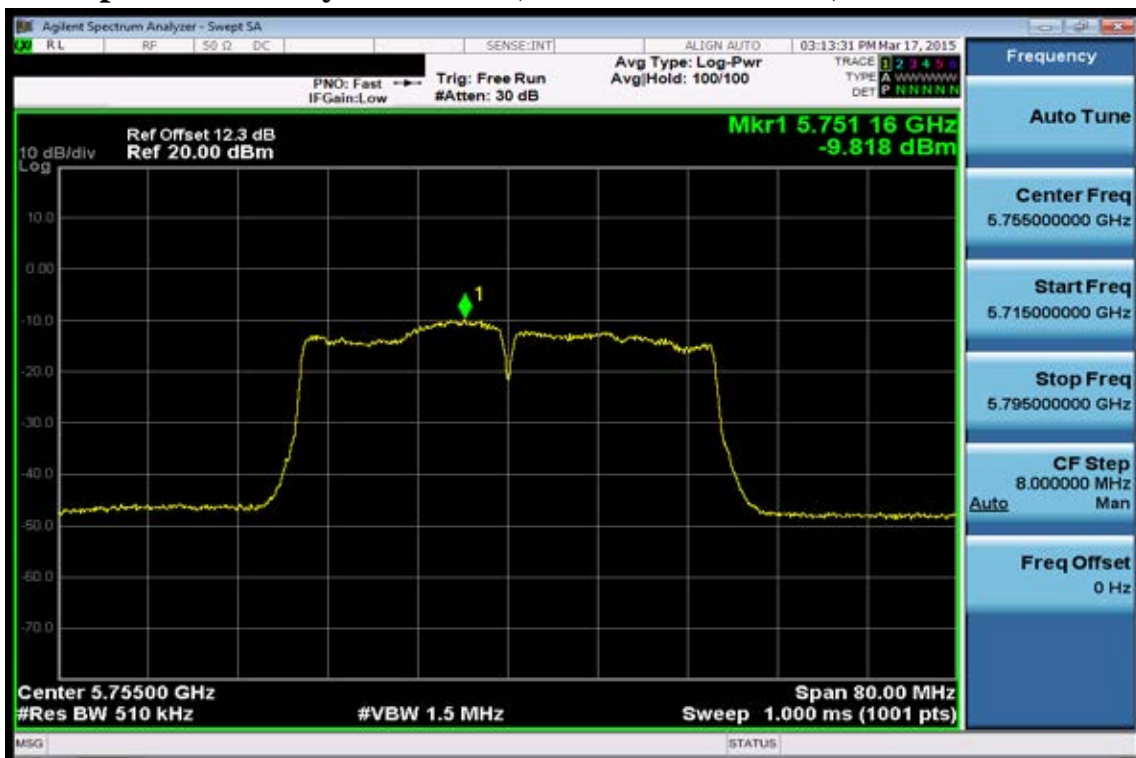
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Peak Power Spectral Density Data Plot (CH High 5670 MHz)



802.11802.11ac VHT40, 5725~5850 MHz

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



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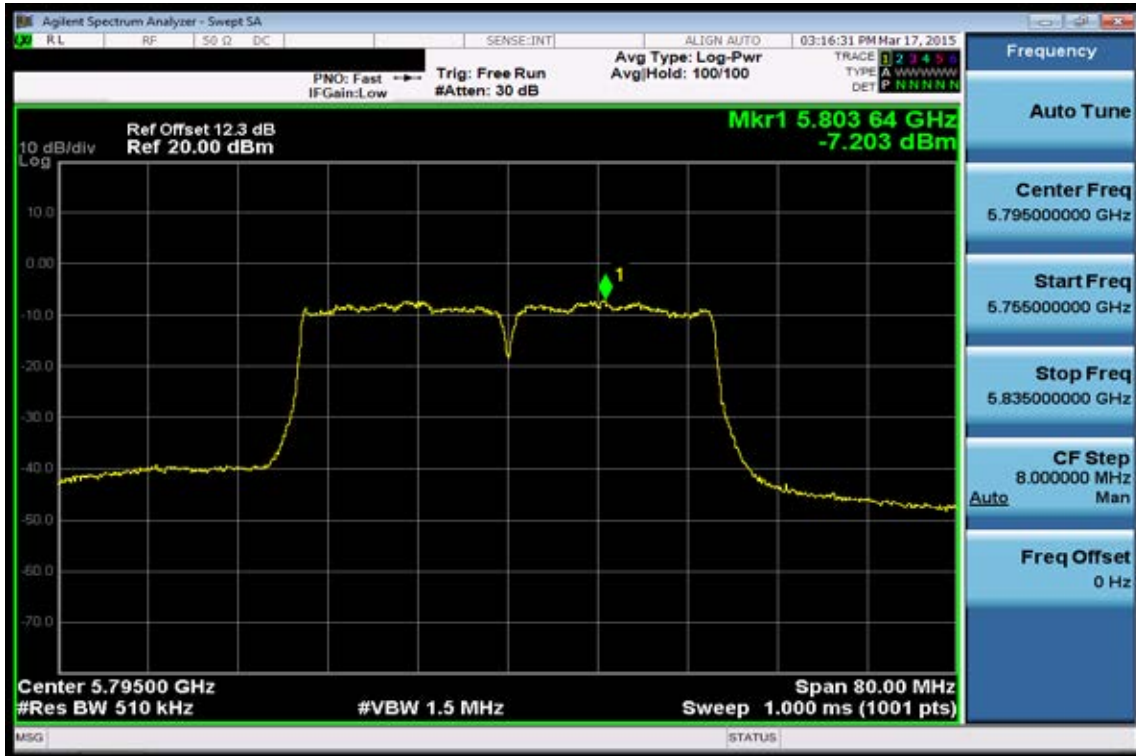
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Peak Power Spectral Density Data Plot (CH High 5795 MHz)



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802.11802.11ac VHT80, 5470~5725 MHz
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



Peak Power Spectral Density Data Plot (CH Mid 5610 MHz)



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Peak Power Spectral Density Data Plot (CH High 5690 MHz)



802.11802.11ac VHT80, 5725~5850 MHz

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



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 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	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01	FIELD STRENGTH AT 3m	
	PK: 74 (dB μ V/m)	AV 54 (dB μ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dB μ V/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dB μ V/m) PK: 78.2 (dB μ V/m)

$EIRP = (E \cdot d)^2 / 30$, 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:

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBµ V/m) = 20 log Emission level (dBµ V/m)

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11.2 Measurement Equipment Used

966 Chamber					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/12/2014	04/11/2015
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	ETS-Lindgren	3160-09	00117911	11/13/2014	11/12/2015
Horn Antenna	ETS-Lindgren	3160-10	00117783	11/13/2014	11/12/2015
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-40	100356	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
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
DC Power Supply	HOLA	DP-3003	D7070035	05/31/2014	05/30/2015
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.

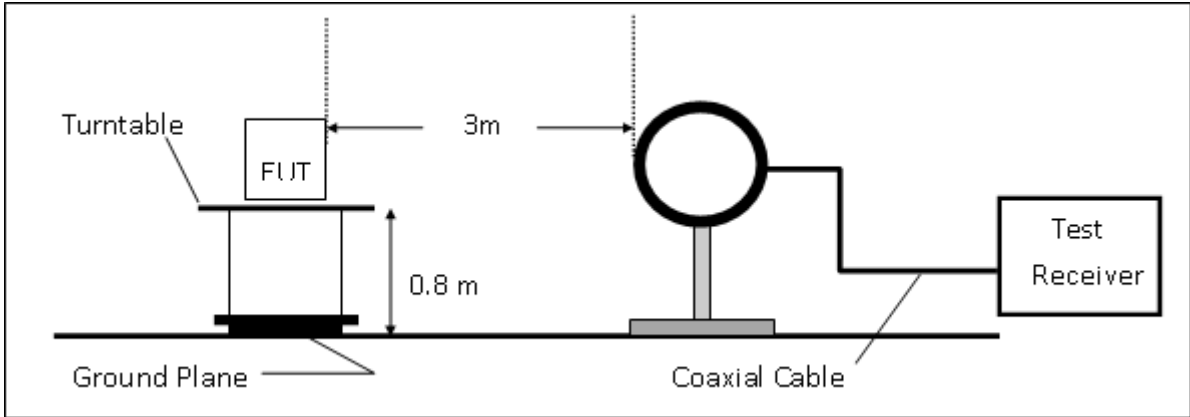
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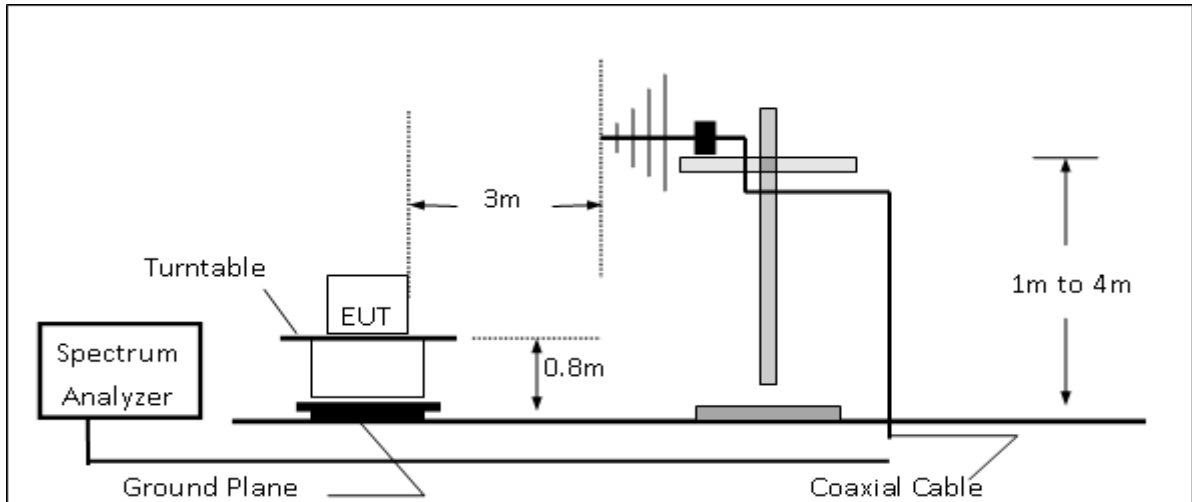
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11.3 Test SET-UP

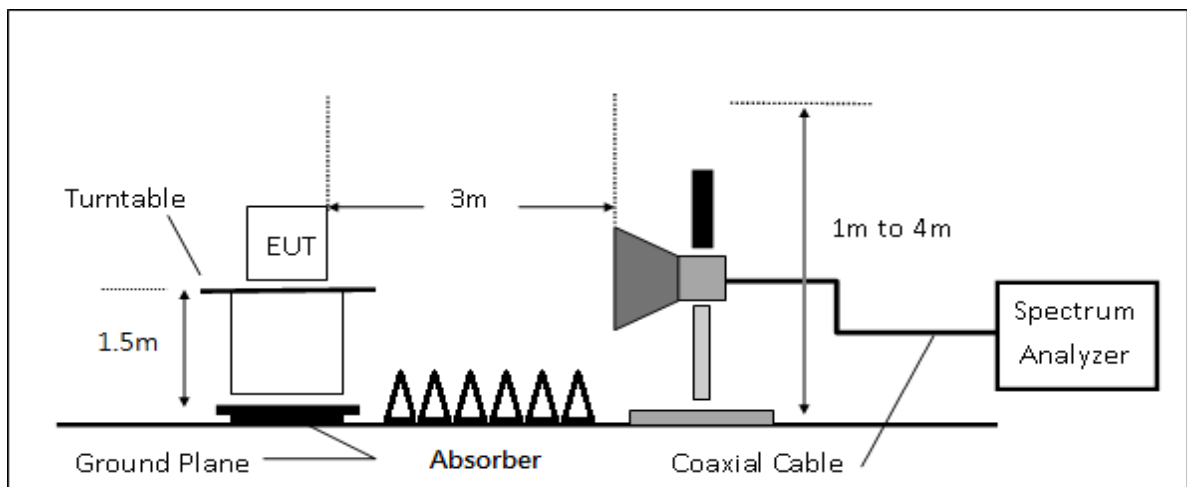
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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

1. 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 v01.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. 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	

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{SPA. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

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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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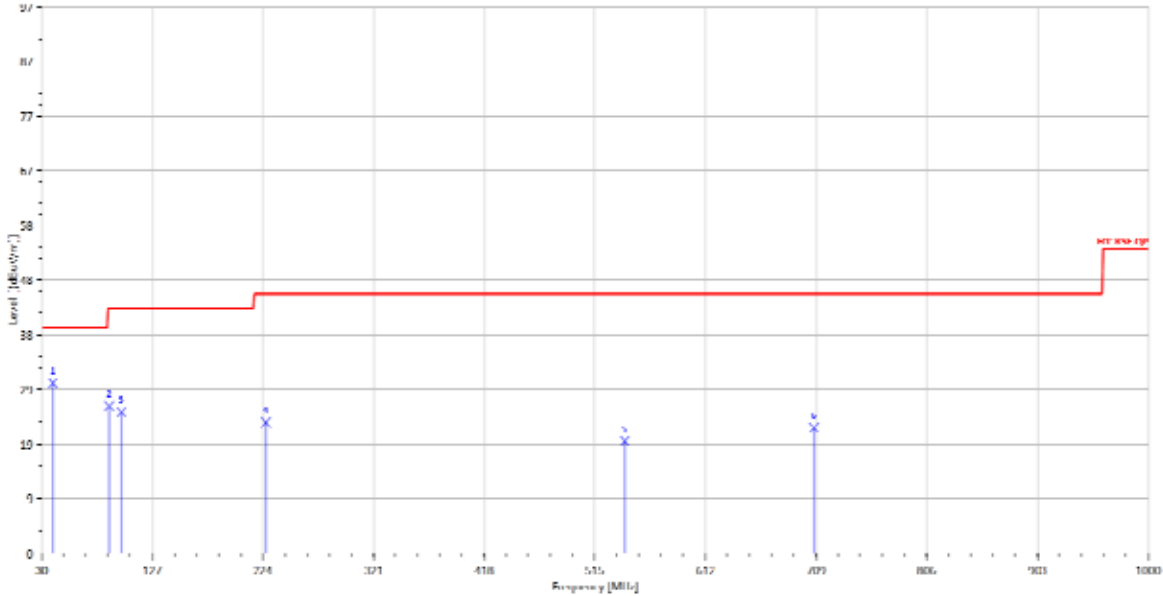
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Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
39.70	Peak	S	48.98	-18.79	30.19	40.00	-9.81
89.17	Peak	S	51.84	-25.74	26.10	43.50	-17.40
99.84	Peak	S	48.87	-23.84	25.04	43.50	-18.46
226.91	Peak	S	45.71	-22.53	23.19	46.00	-22.81
541.19	Peak	S	33.16	-13.27	19.89	46.00	-26.11
707.06	Peak	S	33.15	-10.87	22.28	46.00	-23.72

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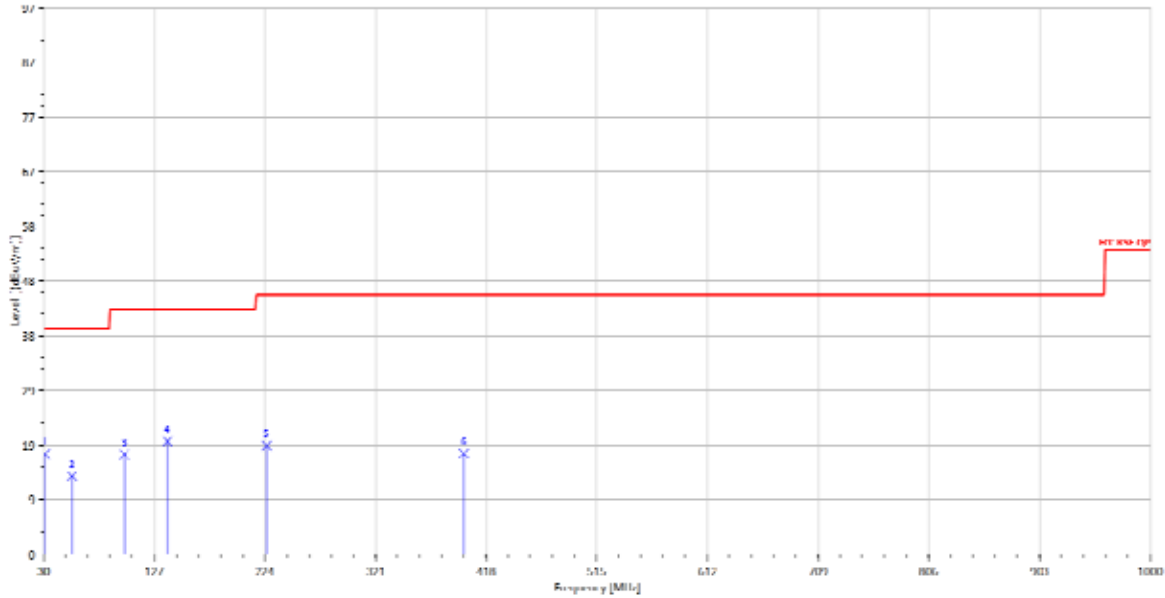
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	S	31.38	-13.64	17.74	40.00	-22.26
55.22	Peak	S	40.90	-27.06	13.84	40.00	-26.16
100.81	Peak	S	41.38	-23.69	17.69	43.50	-25.81
138.64	Peak	S	41.62	-21.60	20.02	43.50	-23.48
225.94	Peak	S	41.86	-22.60	19.26	46.00	-26.74
398.60	Peak	S	33.77	-15.93	17.84	46.00	-28.16

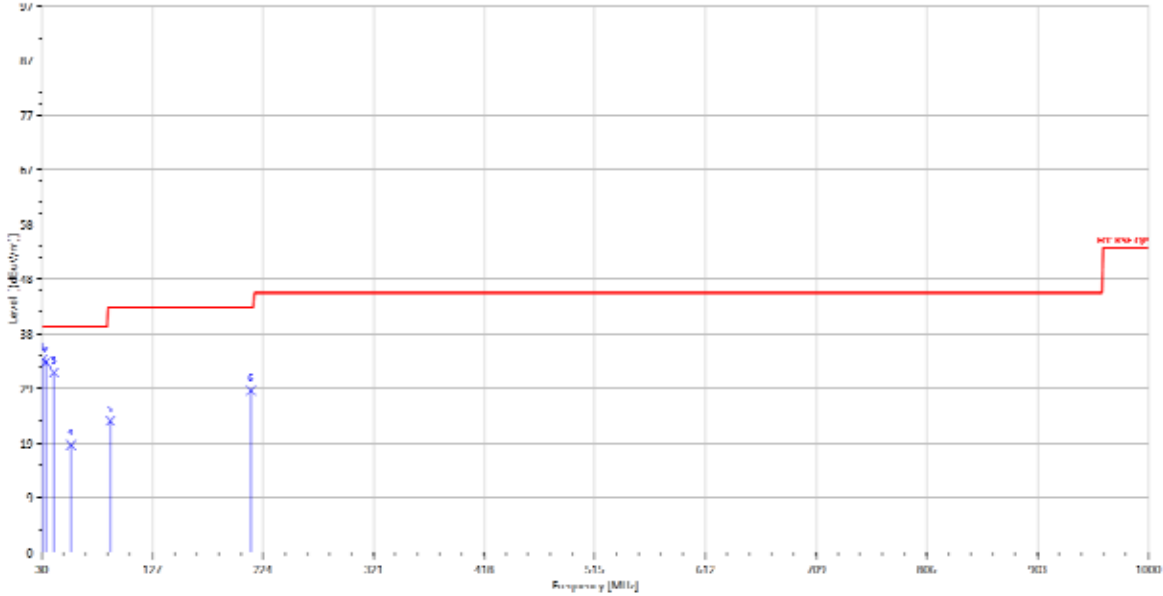
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802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5210 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



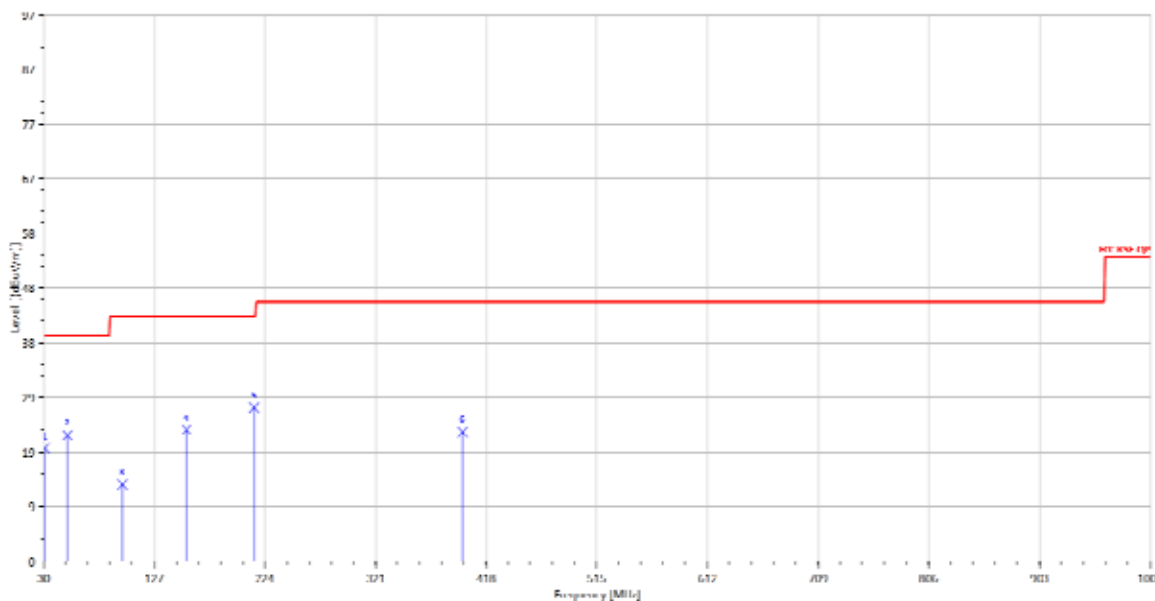
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
30.97	Peak	S	47.86	-13.64	34.22	40.00	-5.78
33.88	Peak	S	48.95	-15.22	33.73	40.00	-6.27
40.67	Peak	S	51.30	-19.43	31.87	40.00	-8.13
56.19	Peak	S	46.36	-27.33	19.03	40.00	-20.97
90.14	Peak	S	48.87	-25.61	23.27	43.50	-20.23
213.33	Peak	S	51.62	-22.93	28.69	43.50	-14.81

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Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5210 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	S	33.70	-13.64	20.06	40.00	-19.94
51.34	Peak	S	48.31	-25.94	22.37	40.00	-17.63
98.87	Peak	S	37.60	-24.01	13.59	43.50	-29.91
155.13	Peak	S	46.11	-22.82	23.29	43.50	-20.21
214.30	Peak	S	50.18	-22.94	27.24	43.50	-16.26
397.63	Peak	S	38.86	-15.96	22.91	46.00	-23.09

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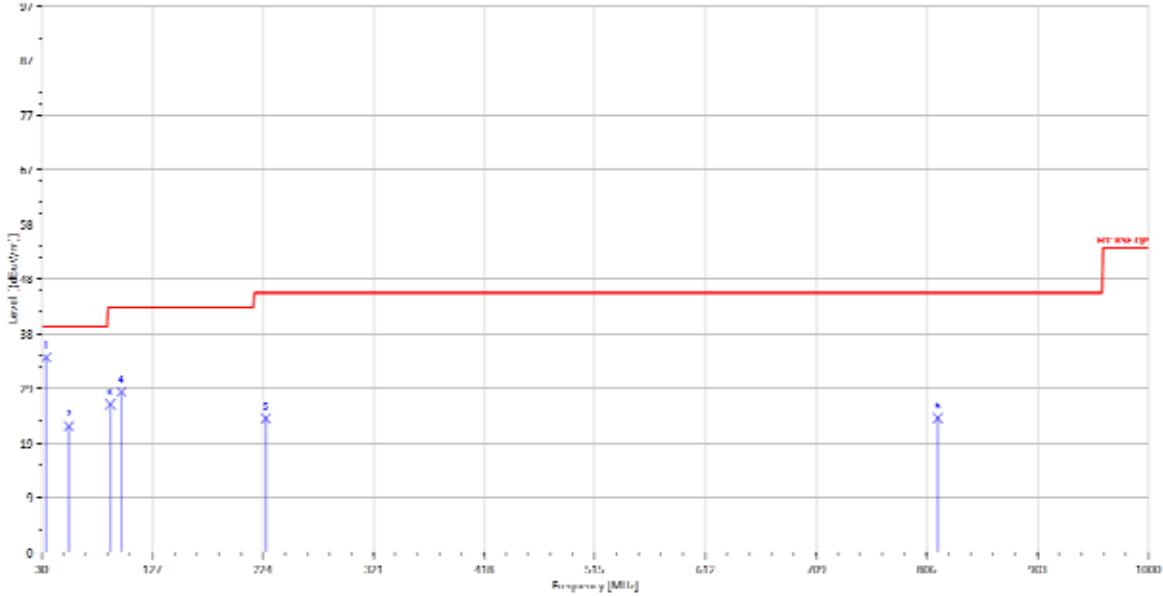
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802.11a, 5250~5350 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



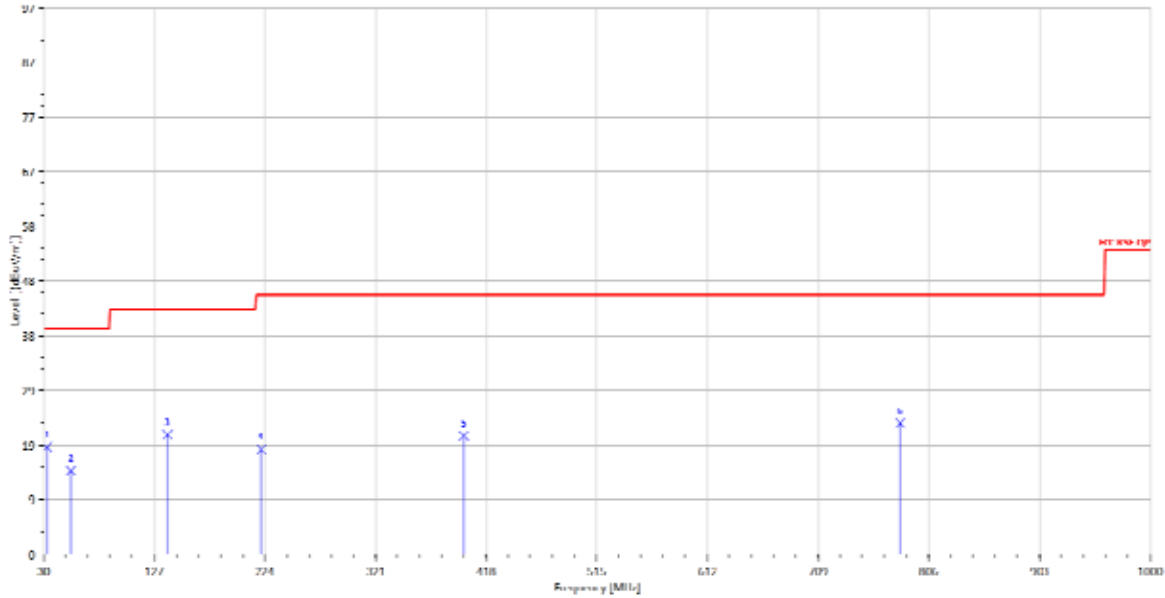
Freq. MHz	Detector Mode	Note	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	S	49.75	-15.22	34.52	40.00	-5.48
54.25	Peak	S	49.18	-26.79	22.38	40.00	-17.62
90.14	Peak	S	51.85	-25.61	26.25	43.50	-17.25
99.84	Peak	S	52.29	-23.84	28.45	43.50	-15.05
226.91	Peak	S	46.24	-22.53	23.71	46.00	-22.29
815.70	Peak	S	32.77	-9.00	23.77	46.00	-22.23

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	S	33.72	-14.69	19.03	40.00	-20.97
54.25	Peak	S	41.57	-26.79	14.78	40.00	-25.22
138.64	Peak	S	42.78	-21.60	21.18	43.50	-22.32
221.09	Peak	S	41.52	-22.91	18.61	46.00	-27.39
398.60	Peak	S	36.93	-15.93	21.01	46.00	-24.99
780.78	Peak	S	33.50	-10.25	23.25	46.00	-22.75

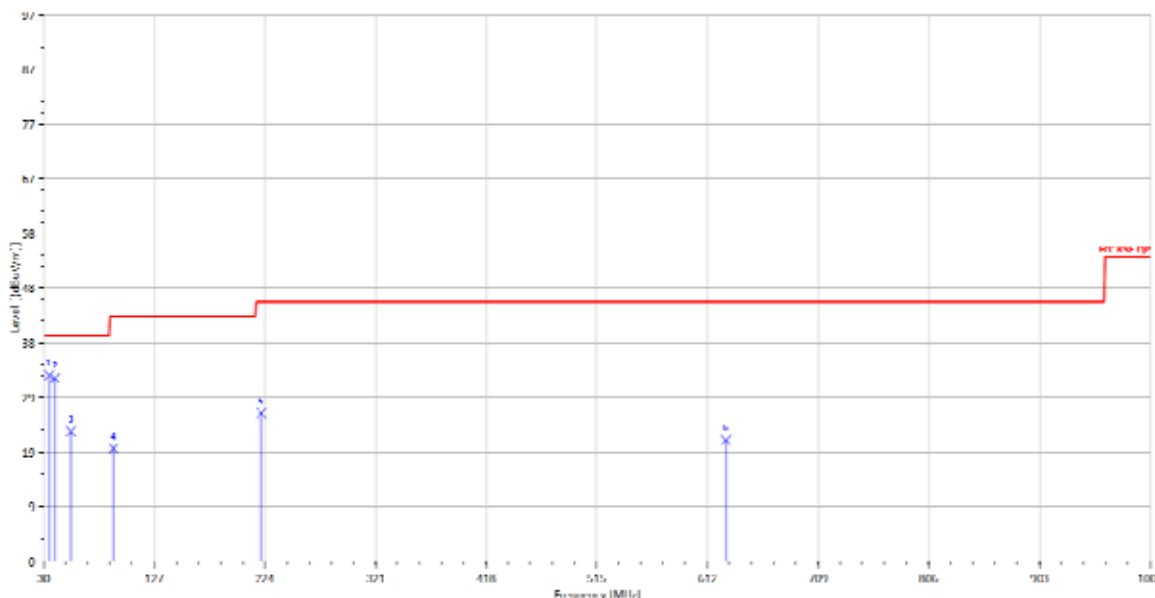
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802.11ac VHT80, 5250~5350 MHz

Operation Band	:802.11 ac80	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



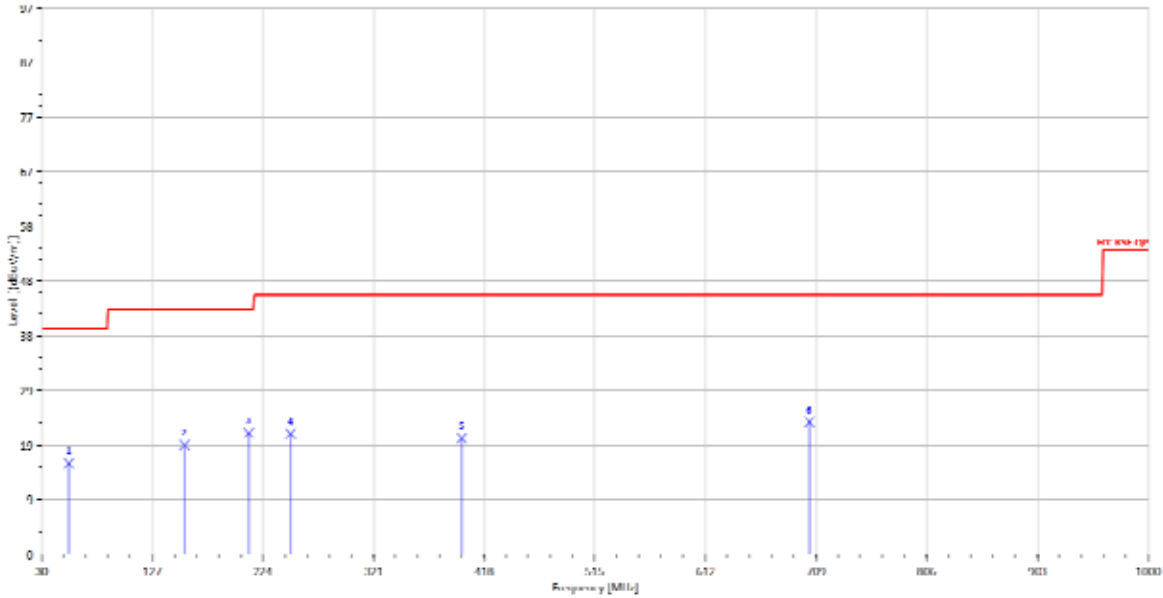
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
34.85	Peak	S	48.71	-15.75	32.96	40.00	-7.04
39.70	Peak	S	51.31	-18.79	32.51	40.00	-7.49
54.25	Peak	S	49.82	-26.79	23.02	40.00	-16.98
91.11	Peak	S	45.44	-25.42	20.01	43.50	-23.49
221.09	Peak	S	49.20	-22.91	26.29	46.00	-19.71
628.49	Peak	S	33.39	-11.93	21.45	46.00	-24.55

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Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.25	Peak	S	42.90	-26.79	16.11	40.00	-23.89
155.13	Peak	S	42.18	-22.82	19.36	43.50	-24.14
211.39	Peak	S	44.37	-22.91	21.46	43.50	-22.04
248.25	Peak	S	41.96	-20.58	21.38	46.00	-24.62
398.60	Peak	S	36.49	-15.93	20.57	46.00	-25.43
703.18	Peak	S	34.46	-11.00	23.46	46.00	-22.54

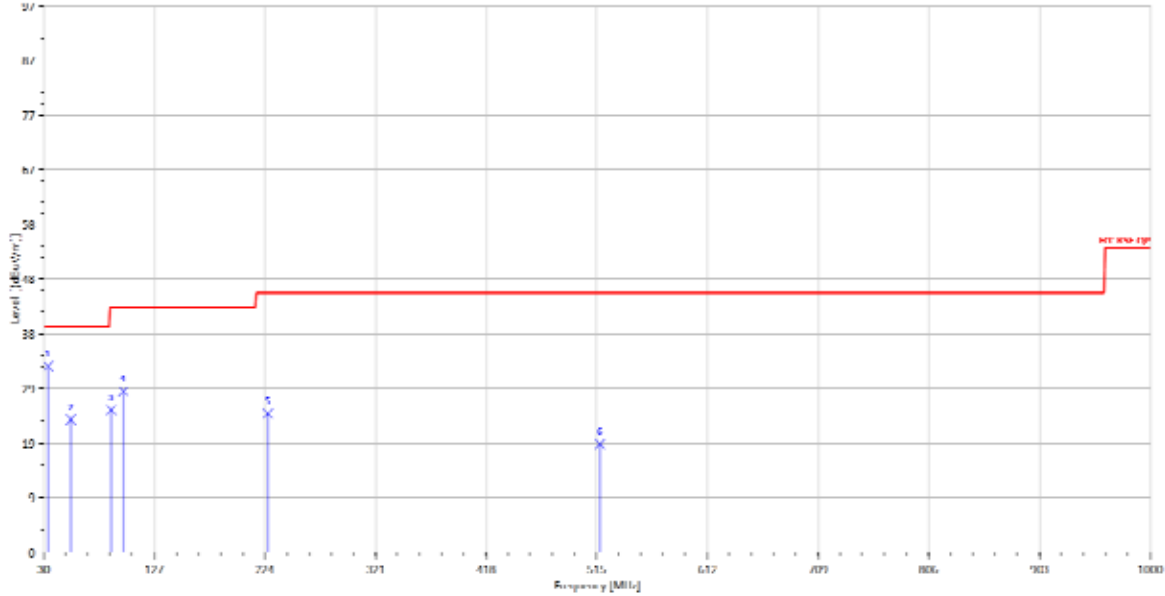
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802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



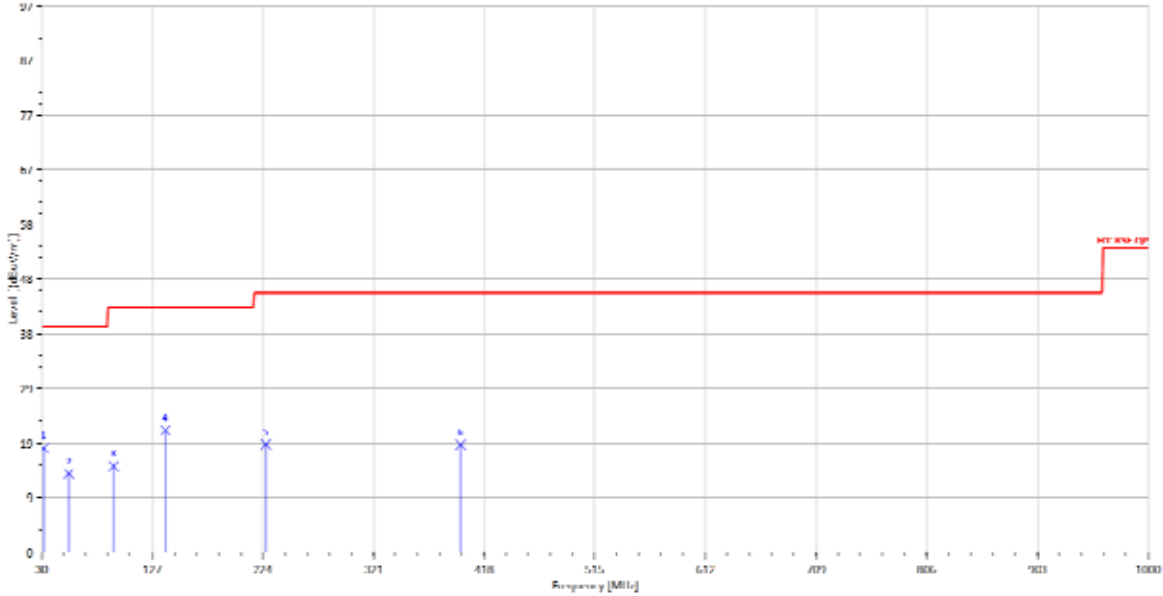
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	S	48.21	-15.22	32.99	40.00	-7.01
54.25	Peak	S	50.32	-26.79	23.53	40.00	-16.47
89.17	Peak	S	50.98	-25.74	25.24	43.50	-18.26
99.84	Peak	S	52.41	-23.84	28.57	43.50	-14.93
226.91	Peak	S	47.10	-22.53	24.57	46.00	-21.43
517.91	Peak	S	32.81	-13.60	19.21	46.00	-26.79

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	Peak	S	32.64	-14.17	18.47	40.00	-21.53
54.25	Peak	S	40.74	-26.79	13.95	40.00	-26.05
93.05	Peak	S	40.35	-25.06	15.29	43.50	-28.21
138.64	Peak	S	43.23	-21.60	21.63	43.50	-21.87
226.91	Peak	S	41.68	-22.53	19.16	46.00	-26.84
397.63	Peak	S	35.05	-15.96	19.09	46.00	-26.91

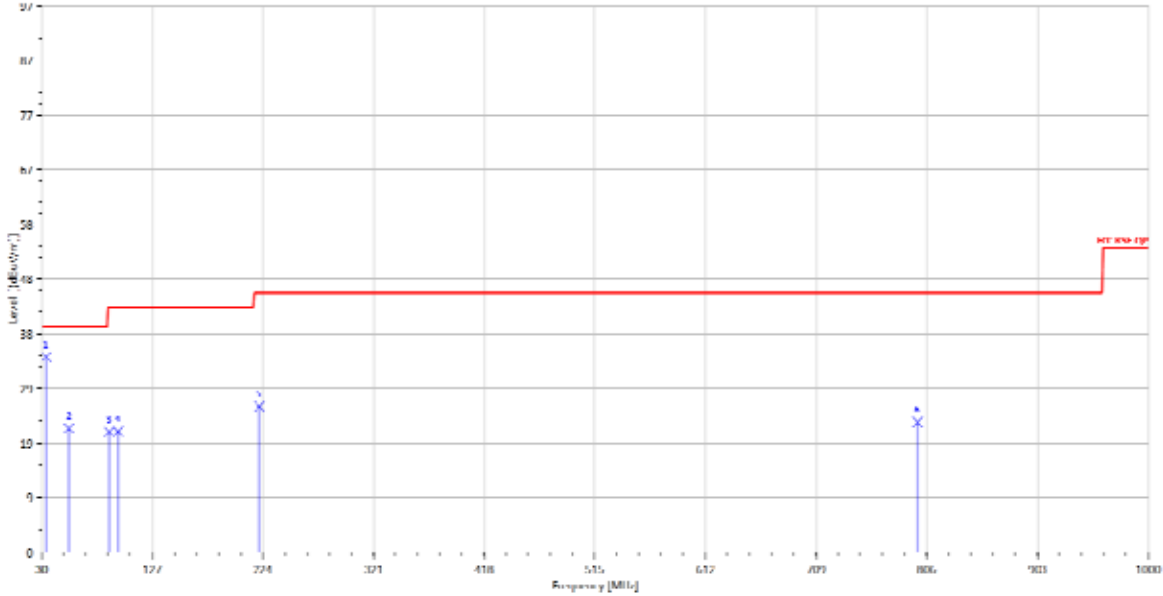
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802.11ac VHT80, 5470~5725 MHz

Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5610 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



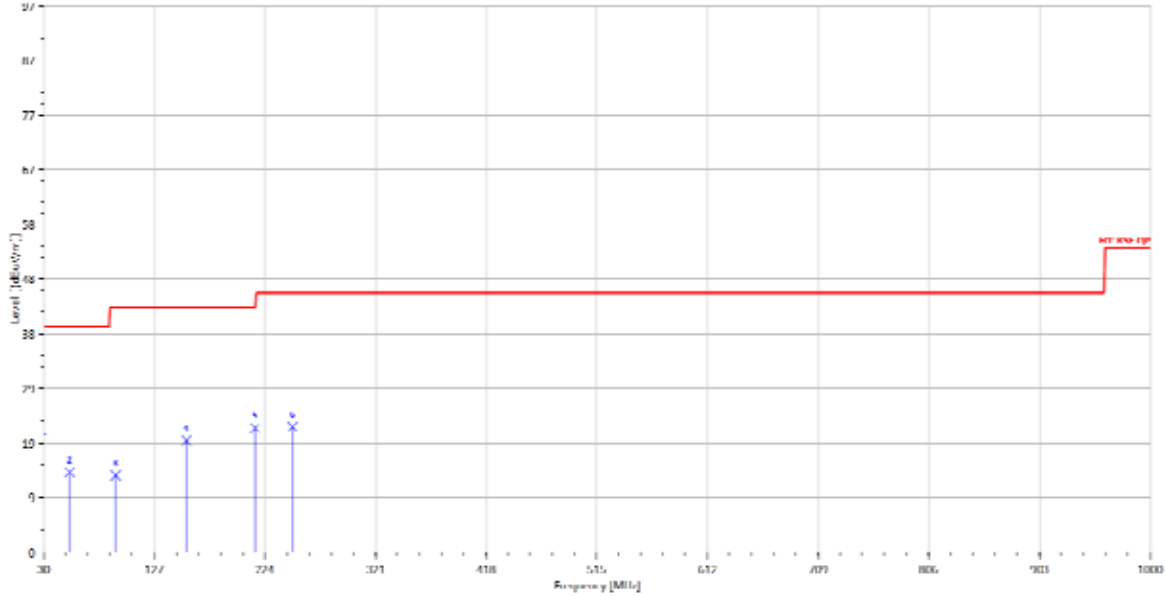
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	S	49.87	-15.22	34.65	40.00	-5.35
54.25	Peak	S	48.76	-26.79	21.97	40.00	-18.03
89.17	Peak	S	47.10	-25.74	21.36	43.50	-22.14
96.93	Peak	S	45.78	-24.36	21.42	43.50	-22.08
221.09	Peak	S	48.80	-22.91	25.89	46.00	-20.11
798.24	Peak	S	32.61	-9.55	23.06	46.00	-22.94

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Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5610 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	S	32.33	-13.11	19.22	40.00	-20.78
53.28	Peak	S	40.69	-26.52	14.17	40.00	-25.83
93.05	Peak	S	38.68	-25.06	13.62	43.50	-29.88
155.13	Peak	S	42.61	-22.82	19.79	43.50	-23.71
215.27	Peak	S	45.00	-22.95	22.04	43.50	-21.46
248.25	Peak	S	42.84	-20.58	22.26	46.00	-23.74

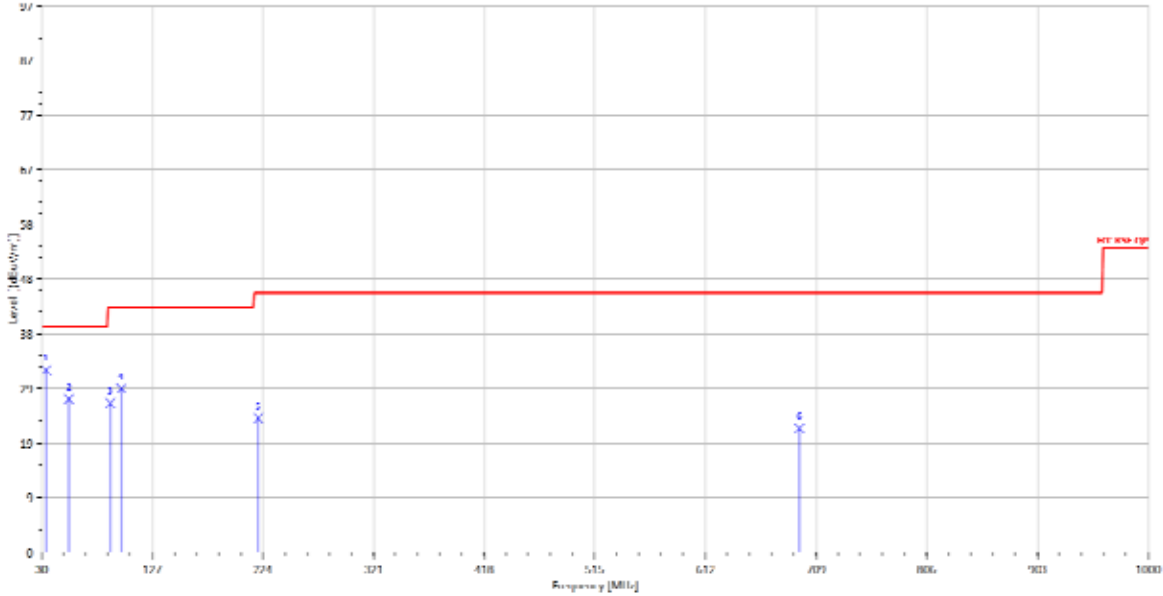
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802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



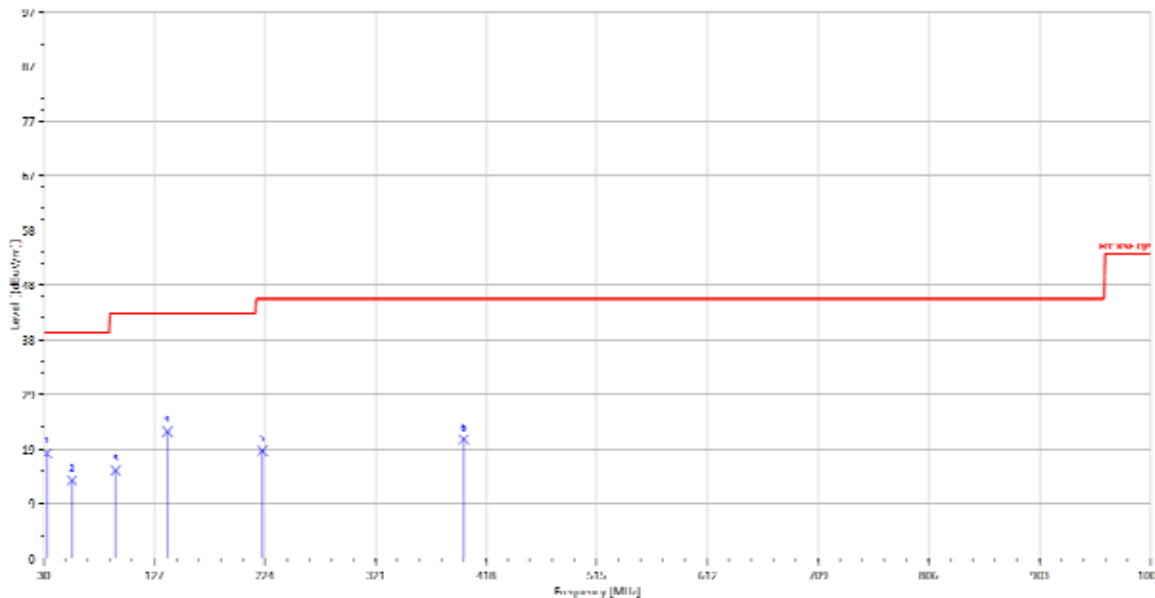
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	S	47.53	-15.22	32.31	40.00	-7.69
54.25	Peak	S	53.94	-26.79	27.15	40.00	-12.85
90.14	Peak	S	52.01	-25.61	26.41	43.50	-17.09
99.84	Peak	S	52.91	-23.84	29.07	43.50	-14.43
220.12	Peak	S	46.72	-22.96	23.76	46.00	-22.24
694.45	Peak	S	32.97	-10.99	21.99	46.00	-24.01

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
32.91	Peak	S	33.32	-14.69	18.63	40.00	-21.37
55.22	Peak	S	40.84	-27.06	13.78	40.00	-26.22
93.05	Peak	S	40.68	-25.06	15.61	43.50	-27.89
138.64	Peak	S	44.09	-21.60	22.49	43.50	-21.01
222.06	Peak	S	41.95	-22.86	19.09	46.00	-26.91
398.60	Peak	S	37.00	-15.93	21.08	46.00	-24.92

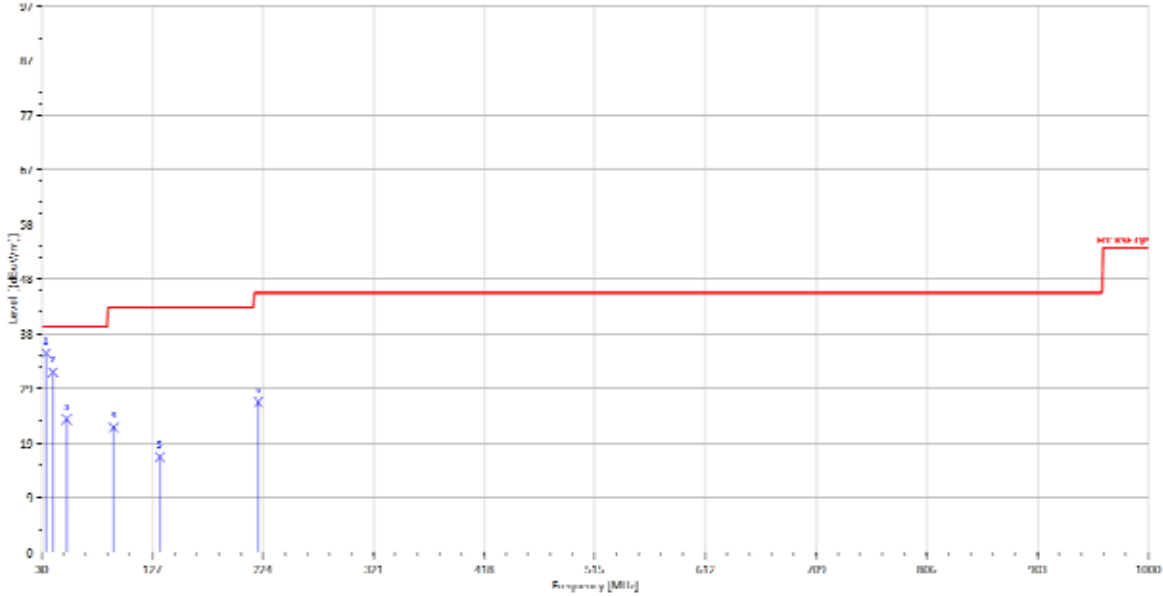
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802.11ac VHT80, 5725~5850 MHz

Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



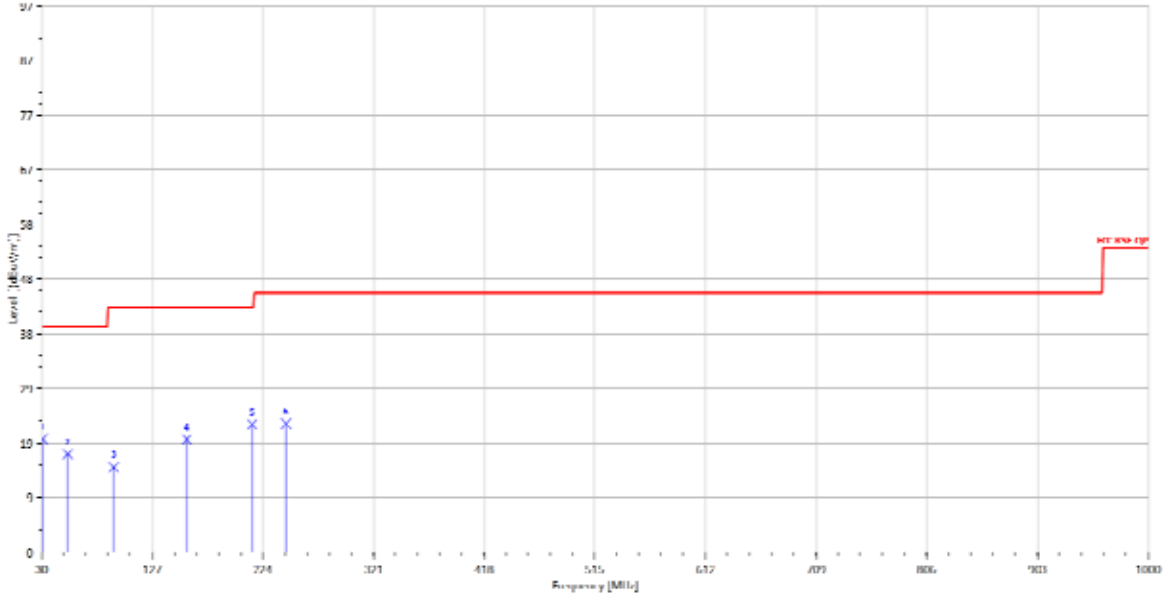
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
33.88	Peak	S	50.53	-15.22	35.31	40.00	-4.69
39.70	Peak	S	50.74	-18.79	31.94	40.00	-8.06
52.31	Peak	S	49.81	-26.23	23.59	40.00	-16.41
93.05	Peak	S	47.22	-25.06	22.15	43.50	-21.35
133.79	Peak	S	38.28	-21.40	16.89	43.50	-26.61
220.12	Peak	S	49.58	-22.96	26.61	46.00	-19.39

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Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	Peak	S	33.71	-13.64	20.08	40.00	-19.92
53.28	Peak	S	43.92	-26.52	17.40	40.00	-22.60
93.05	Peak	S	40.14	-25.06	15.08	43.50	-28.42
157.07	Peak	S	43.00	-22.98	20.02	43.50	-23.48
214.30	Peak	S	45.63	-22.94	22.68	43.50	-20.82
244.37	Peak	S	43.66	-20.86	22.80	46.00	-23.20

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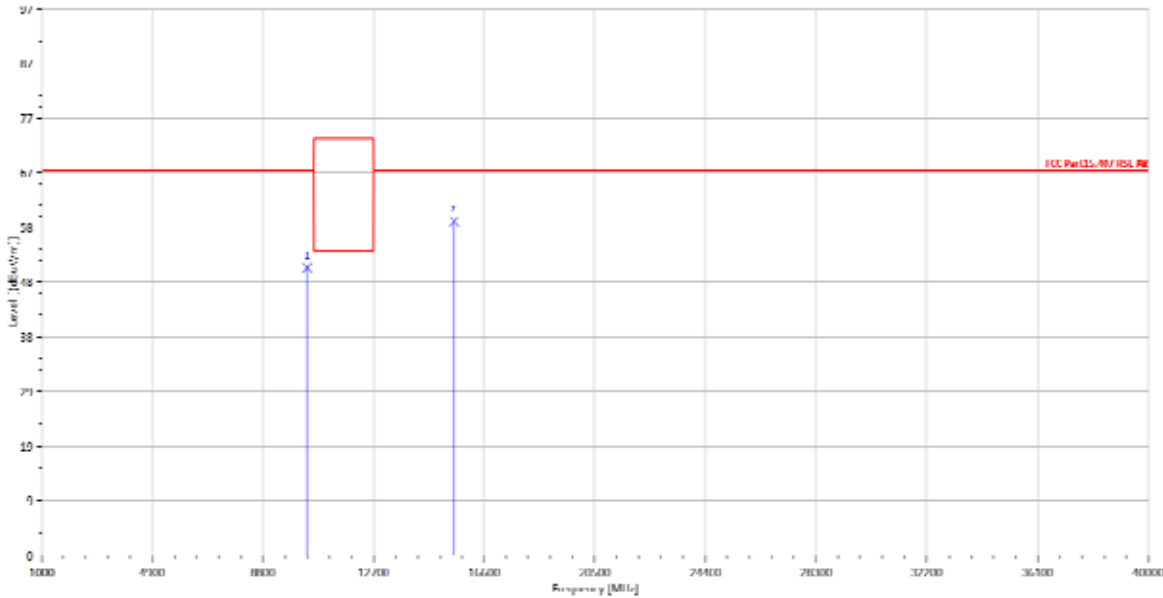
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Above 1GHz Worst-Case Data:

802.11a, 5150~5250 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



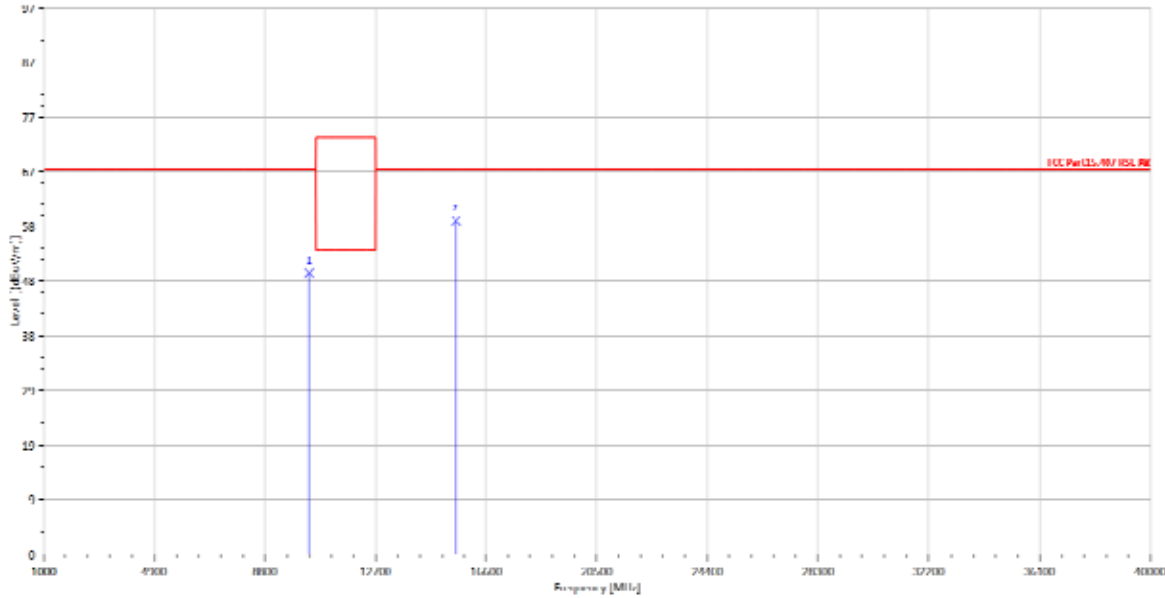
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	H	32.05	18.94	50.99	68.30	-17.31
15540.00	Peak	H	33.46	25.80	59.26	68.30	-9.04

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



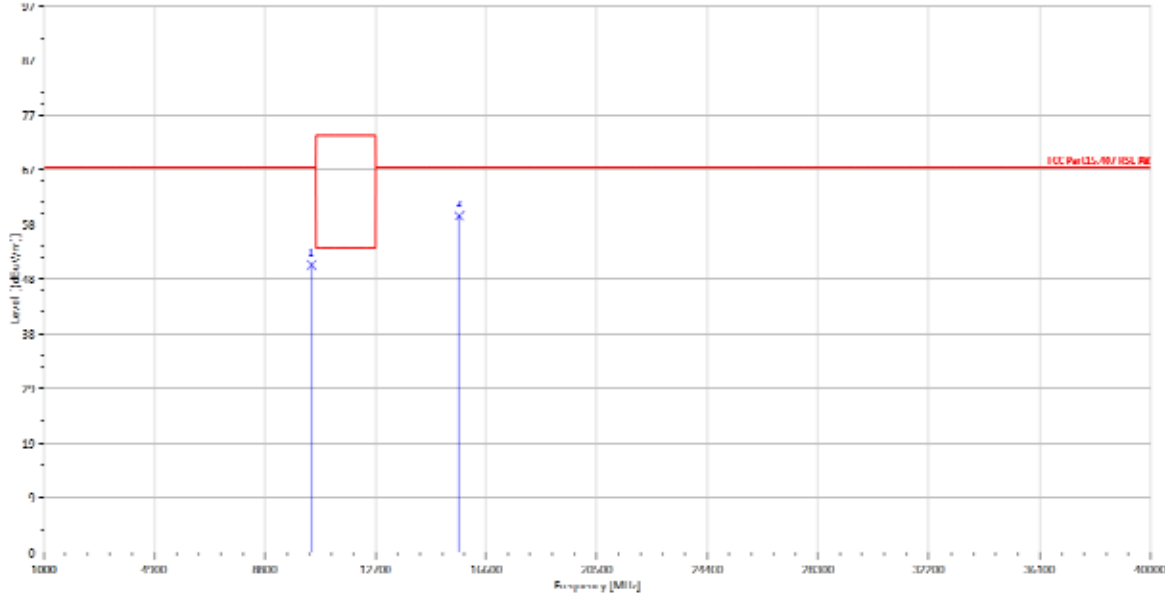
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	H	30.97	18.94	49.91	68.30	-18.39
15540.00	Peak	H	33.37	25.80	59.17	68.30	-9.13

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



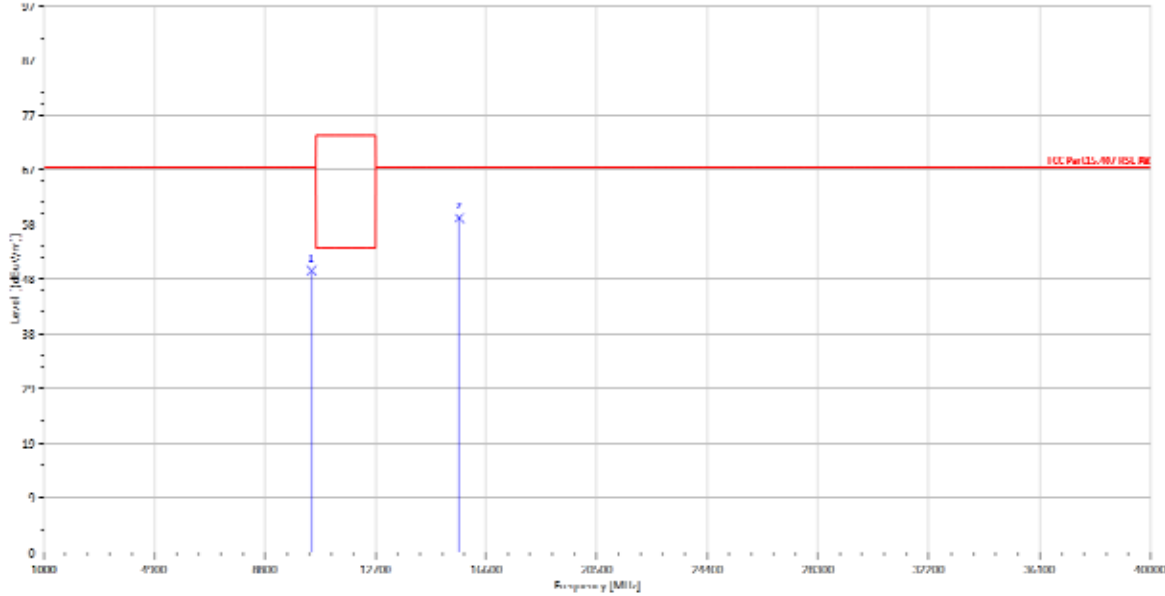
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	S	31.93	19.03	50.96	68.30	-17.34
15660.00	Peak	S	33.61	26.06	59.67	68.30	-8.63

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



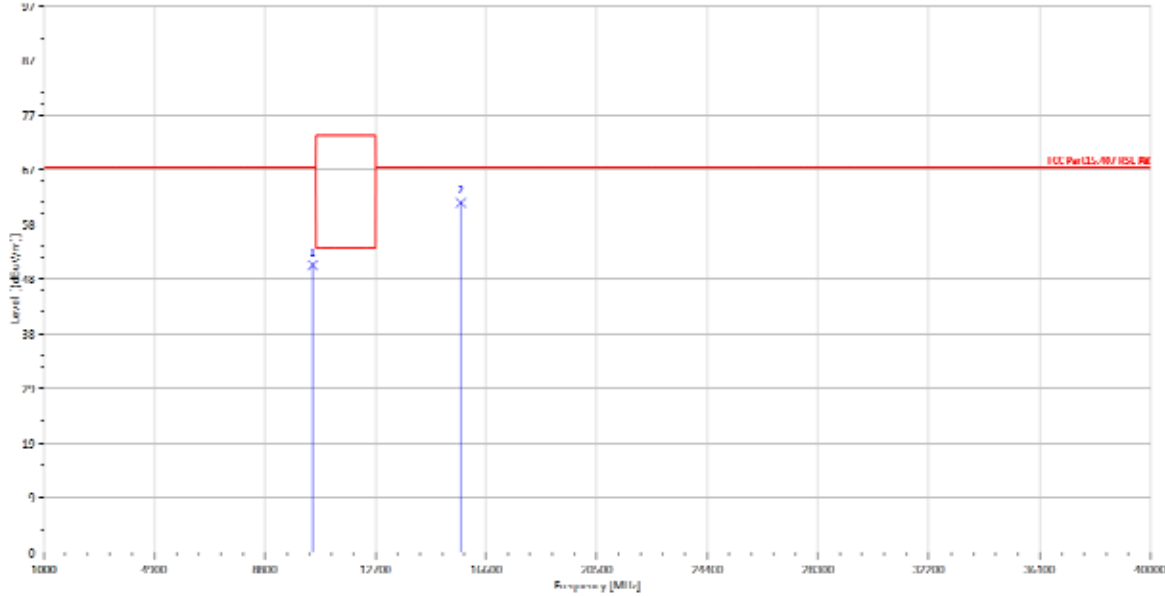
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	H	30.93	19.03	49.96	68.30	-18.34
15660.00	Peak	H	33.24	26.06	59.31	68.30	-8.99

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5240 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



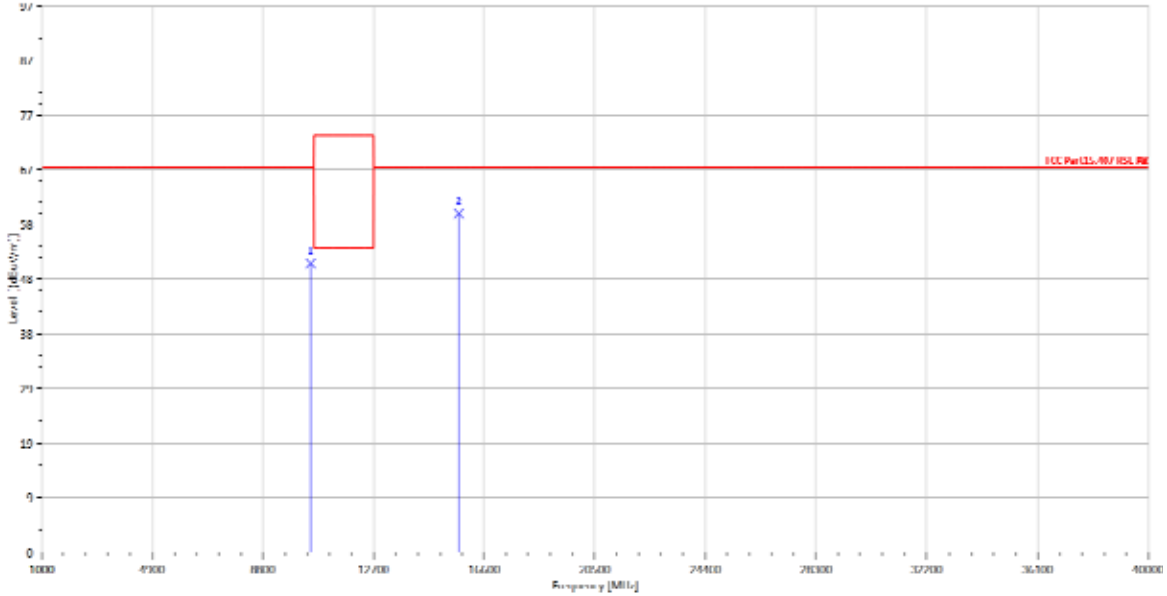
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	H	31.81	19.13	50.94	68.30	-17.36
15720.00	Peak	H	35.85	26.13	61.98	68.30	-6.32

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5240 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	H	32.10	19.13	51.23	68.30	-17.07
15720.00	Peak	H	33.99	26.13	60.12	68.30	-8.18

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Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	48.48	11.14	59.62	74.00	-14.38
5150.00	Average	E	35.14	11.14	46.28	54.00	-7.72

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	50.94	11.14	62.08	74.00	-11.92
5150.00	Average	E	36.52	11.14	47.66	54.00	-6.34

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t (886-2) 2299-3279

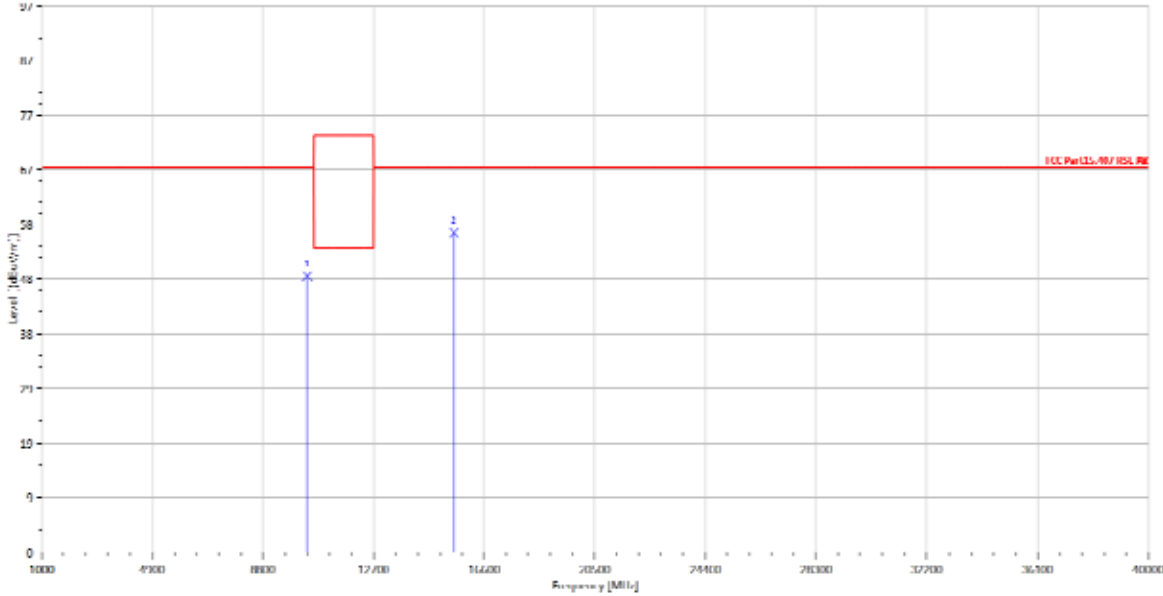
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Radiated Spurious Emission Measurement Result 802.11ac VHT20, 5150~5250 MHz

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



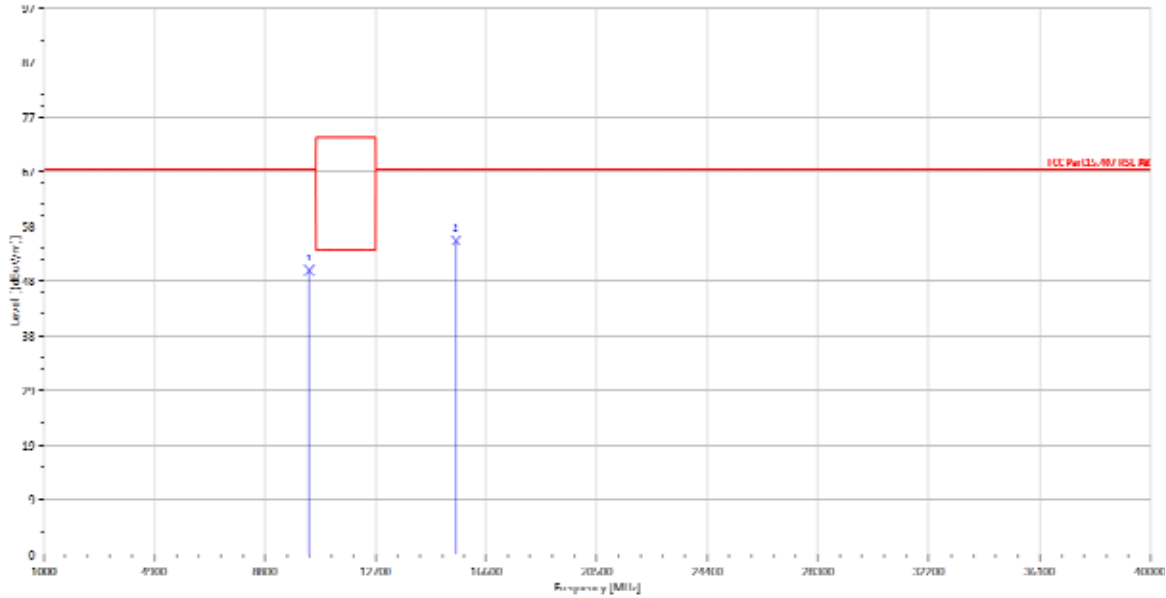
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	H	30.09	18.94	49.03	68.30	-19.27
15540.00	Peak	H	30.91	25.80	56.71	68.30	-11.59

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



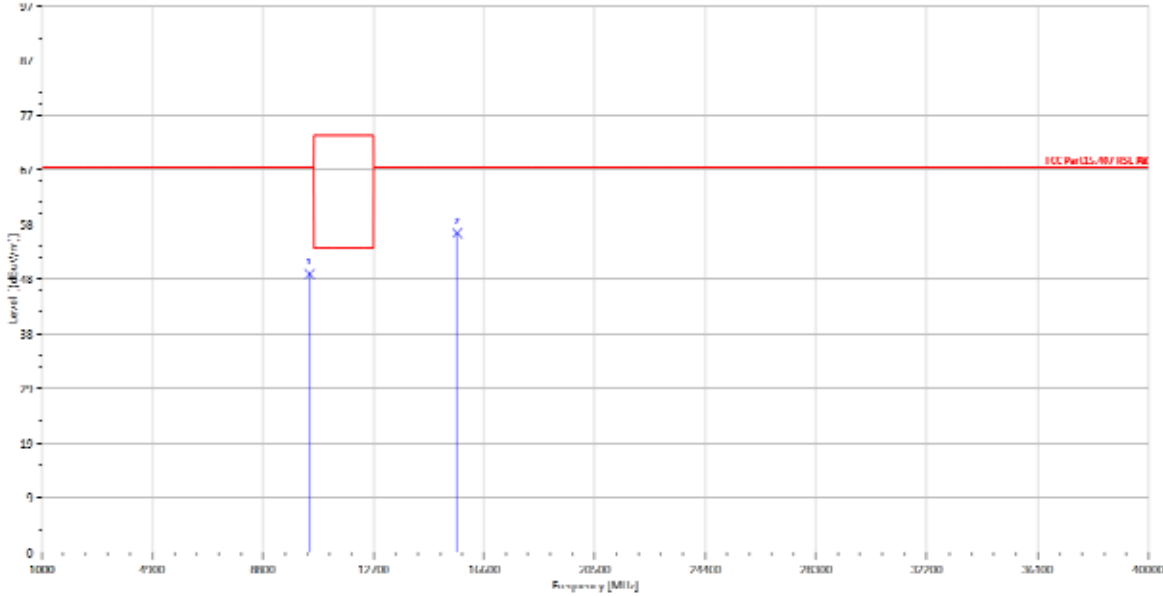
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	Peak	H	31.42	18.94	50.36	68.30	-17.94
15540.00	Peak	H	29.83	25.80	55.63	68.30	-12.68

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



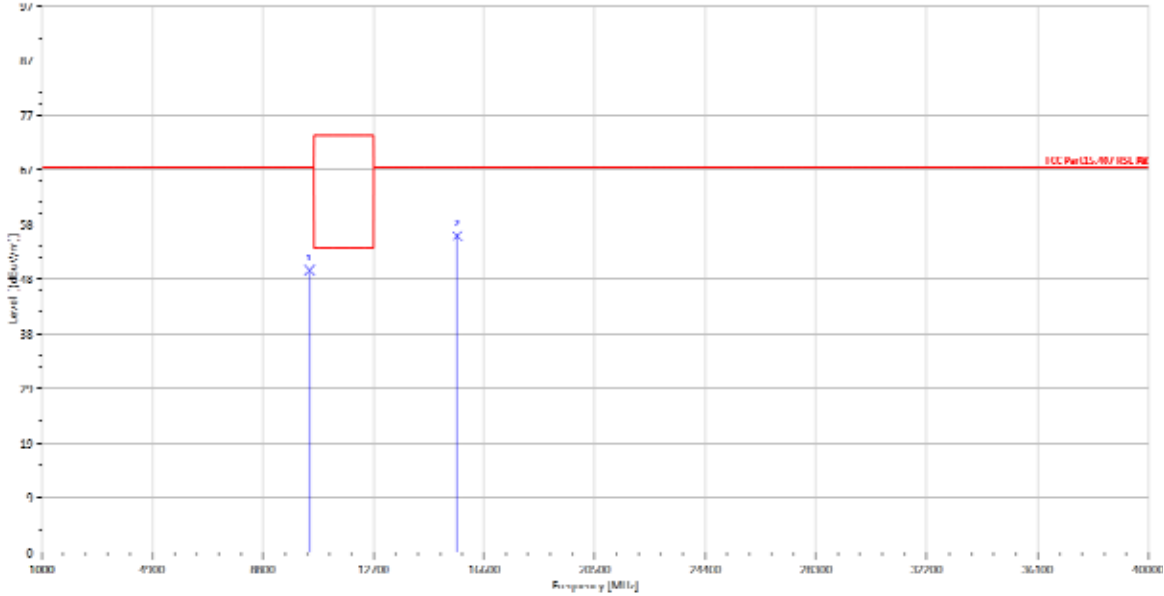
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	H	30.36	19.03	49.38	68.30	-18.92
15660.00	Peak	H	30.58	26.06	56.64	68.30	-11.66

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5220 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



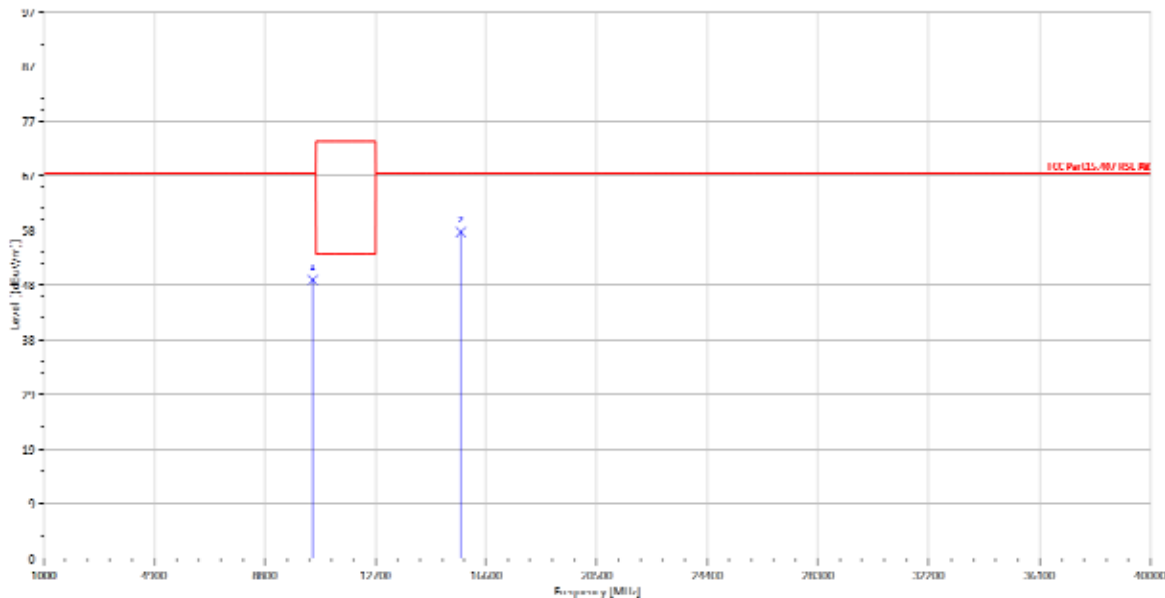
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10440.00	Peak	H	31.00	19.03	50.03	68.30	-18.27
15660.00	Peak	H	30.08	26.06	56.14	68.30	-12.16

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5240 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



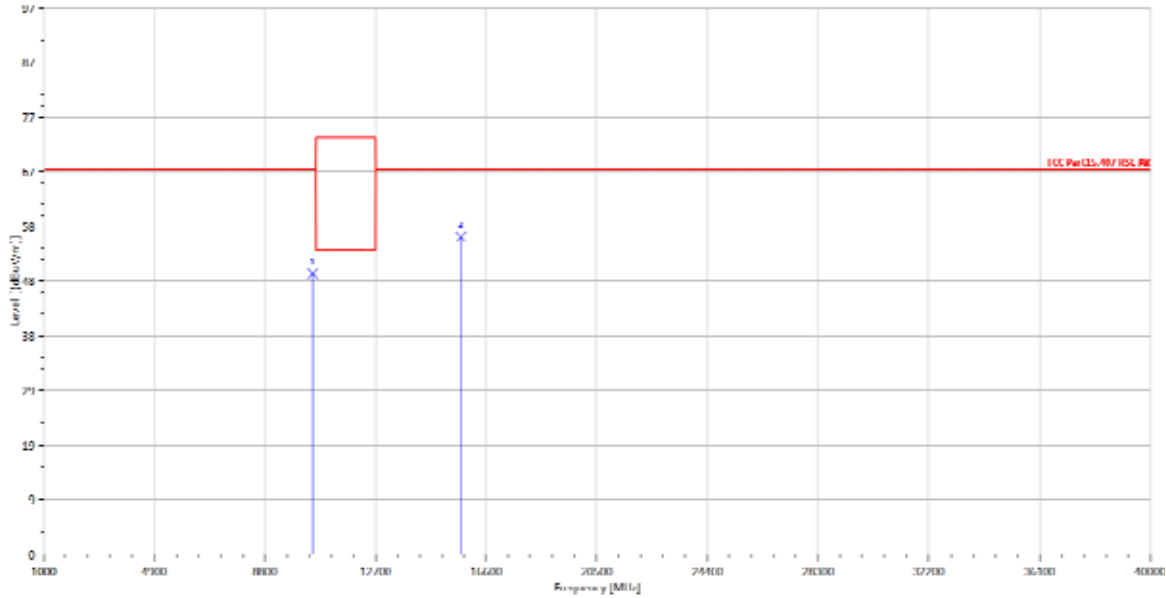
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	H	30.27	19.13	49.39	68.30	-18.91
15720.00	Peak	H	31.70	26.13	57.83	68.30	-10.47

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5240 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.00	Peak	H	30.69	19.13	49.82	68.30	-18.48
15720.00	Peak	H	30.18	26.13	56.31	68.30	-11.99

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Band edge falling to restricted band

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	49.56	11.14	60.70	74.00	-13.30
5150.00	Average	E	35.43	11.14	46.57	54.00	-7.43

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5180 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.
 “E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.
 “---” : denotes Noise Floor.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	52.31	11.14	63.45	74.00	-10.55
5150.00	Average	E	36.70	11.14	47.84	54.00	-6.16

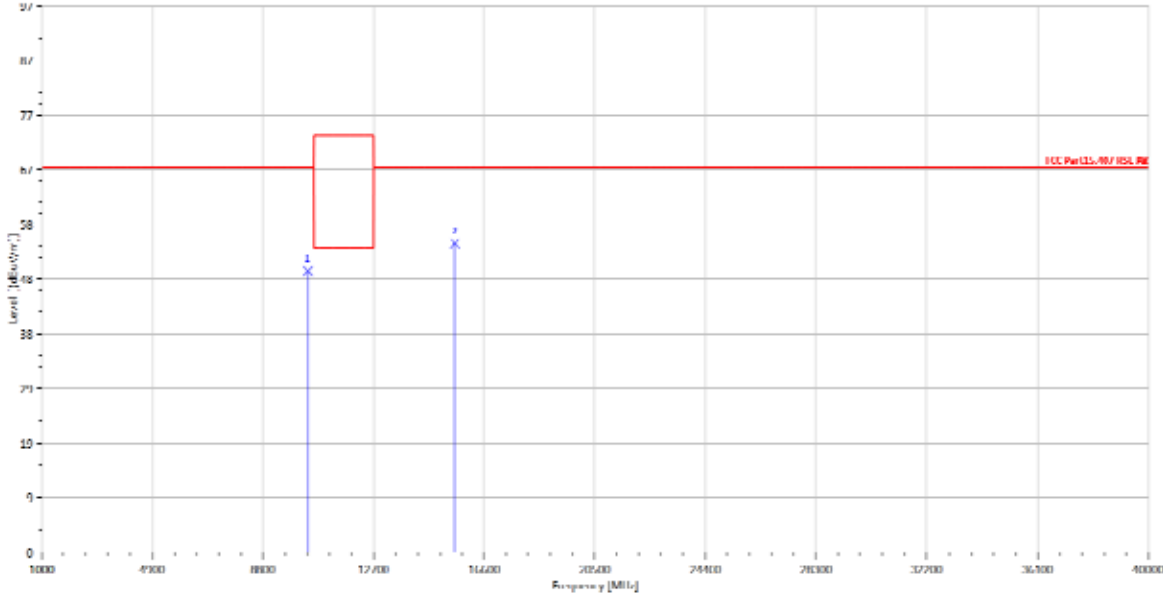
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Radiated Spurious Emission Measurement Result 802.11ac VHT40, 5150~5250 MHz

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5190 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



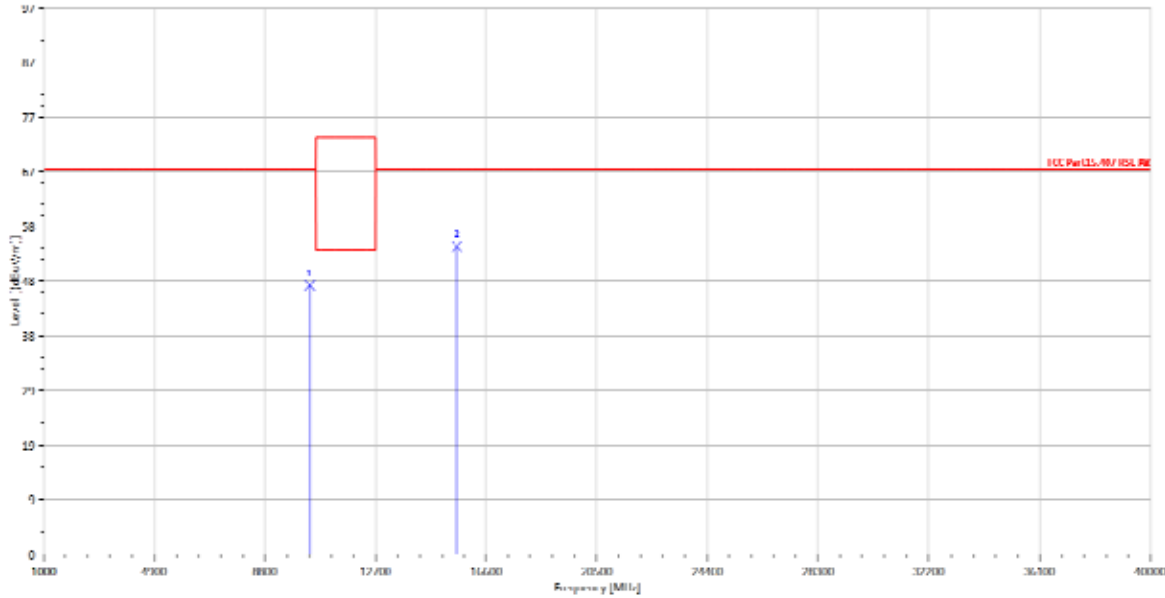
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	H	30.89	19.01	49.91	68.30	-18.39
15570.00	Peak	H	28.99	25.80	54.80	68.30	-13.50

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5190 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



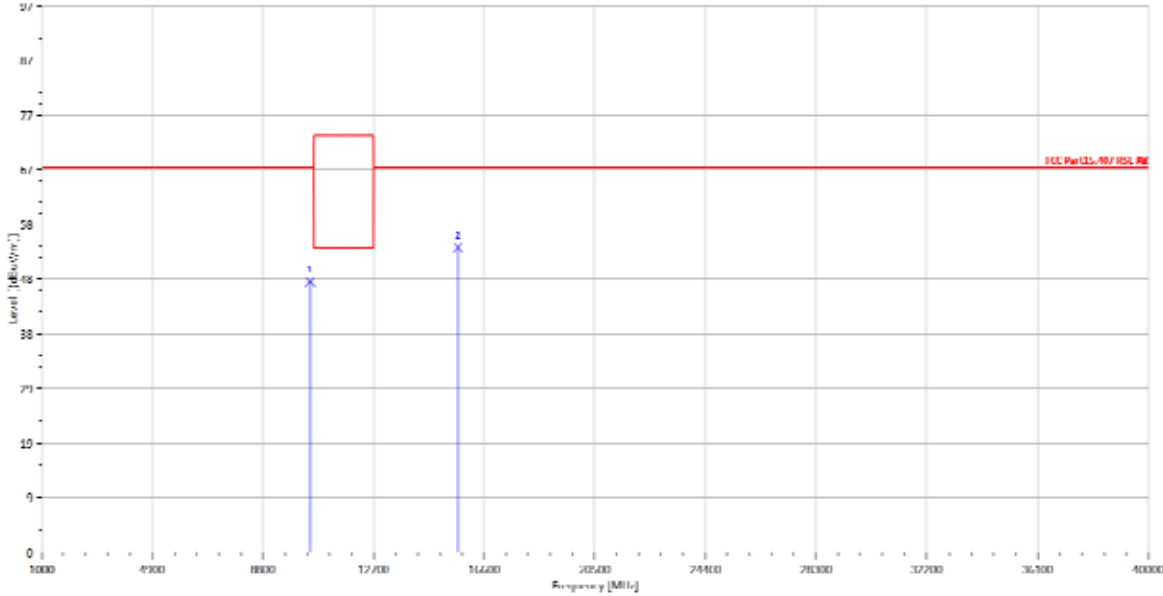
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	Peak	H	28.68	19.01	47.69	68.30	-20.61
15570.00	Peak	H	28.78	25.80	54.58	68.30	-13.72

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5230 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



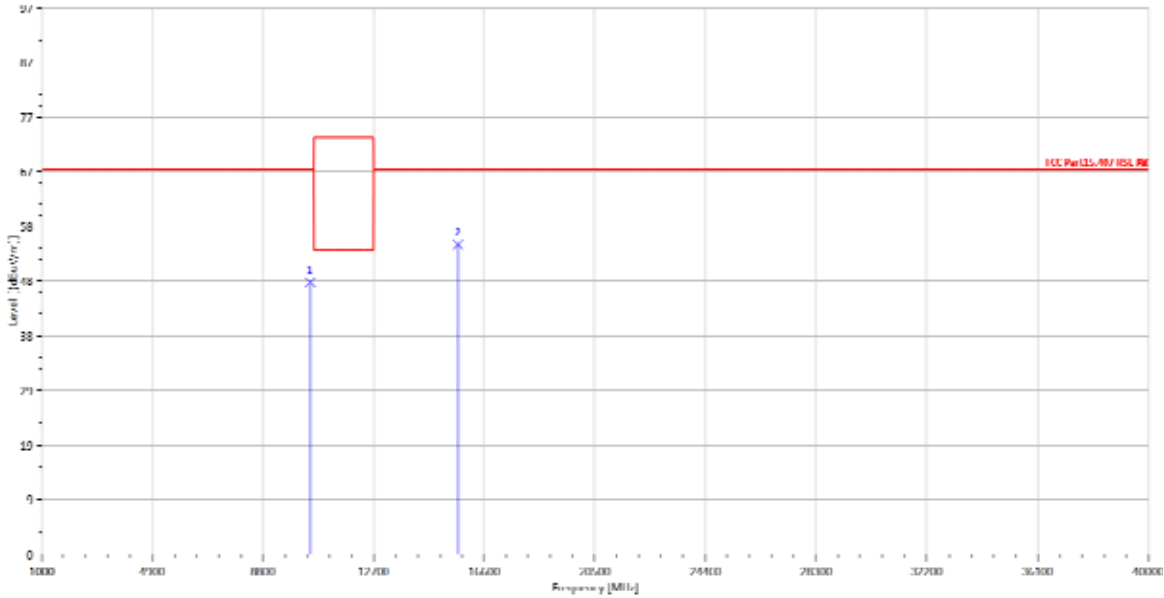
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	H	28.87	19.11	47.98	68.30	-20.32
15690.00	Peak	H	28.04	26.05	54.09	68.30	-14.21

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5230 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10460.00	Peak	H	29.11	19.11	48.23	68.30	-20.07
15690.00	Peak	H	28.87	26.05	54.92	68.30	-13.38

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Band edge falling to restricted band

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5190 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	49.48	11.14	60.63	74.00	-13.37
5150.00	Average	E	34.16	11.14	45.30	54.00	-8.70

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5190 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5150.00	Peak	E	51.18	11.14	62.32	74.00	-11.68
5150.00	Average	E	34.81	11.14	45.95	54.00	-8.05

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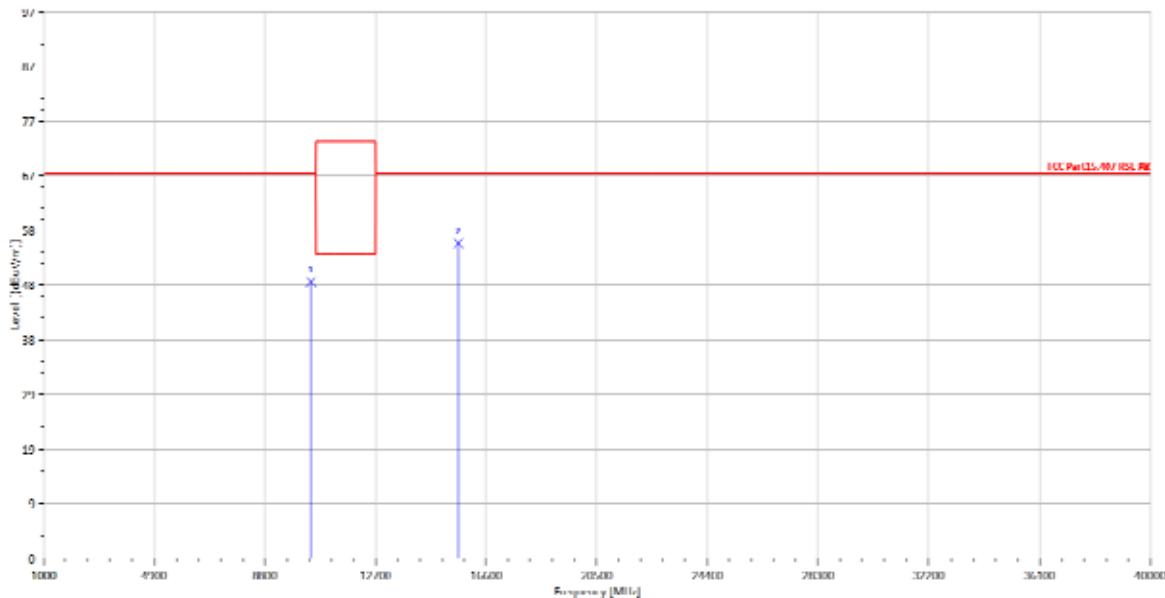
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5210 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	H	30.09	18.96	49.05	68.30	-19.25
15630.00	Peak	H	29.93	25.97	55.90	68.30	-12.40

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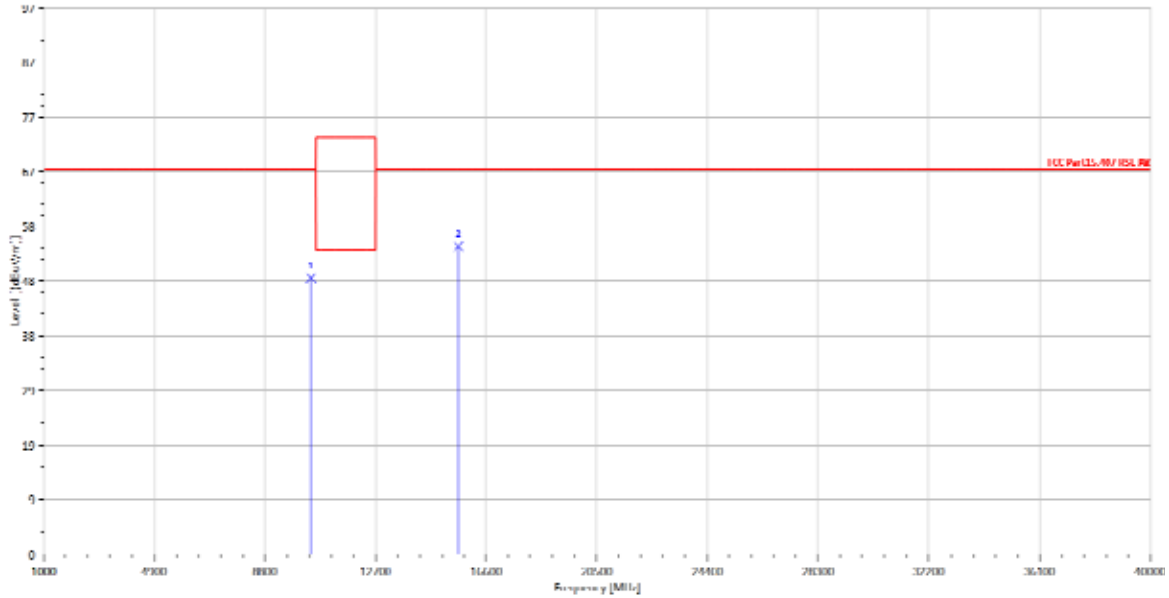
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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5210 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	Peak	H	30.07	18.96	49.03	68.30	-19.27
15630.00	Peak	H	28.65	25.97	54.62	68.30	-13.68

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Band edge falling to restricted band

Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5210 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	Peak	E	48.26	11.14	59.40	74.00	-14.60
5150.00	Average	E	34.46	11.14	45.60	54.00	-8.40

Operation Band	:802.11 ac 80M	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5150.00	Peak	E	51.91	11.14	63.05	74.00	-10.95
5150.00	Average	E	36.92	11.14	48.06	54.00	-5.94

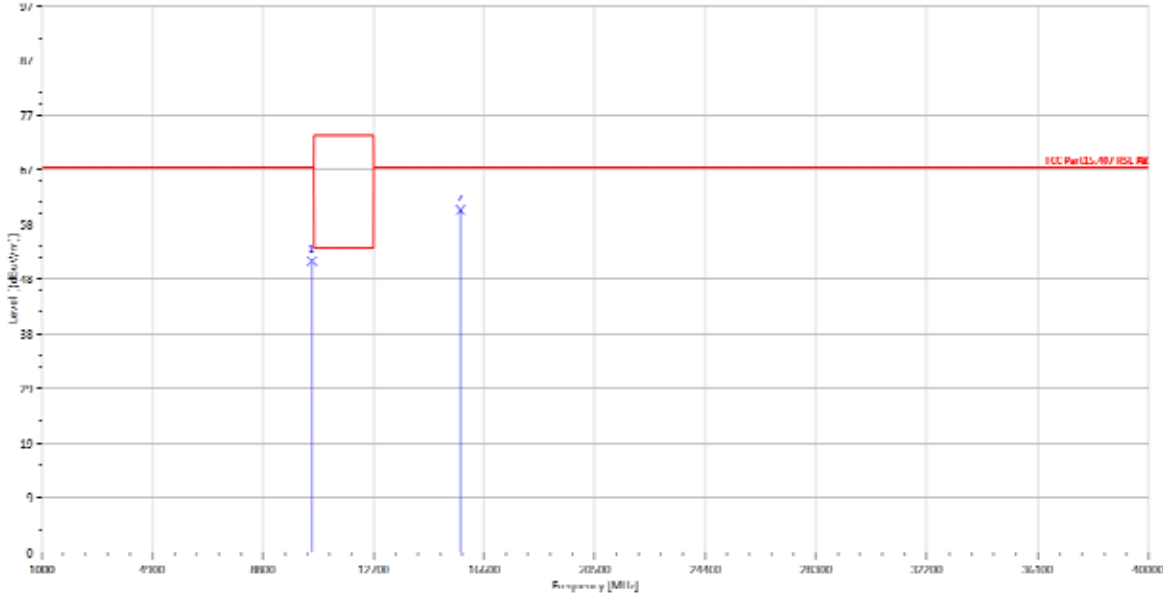
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5260 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



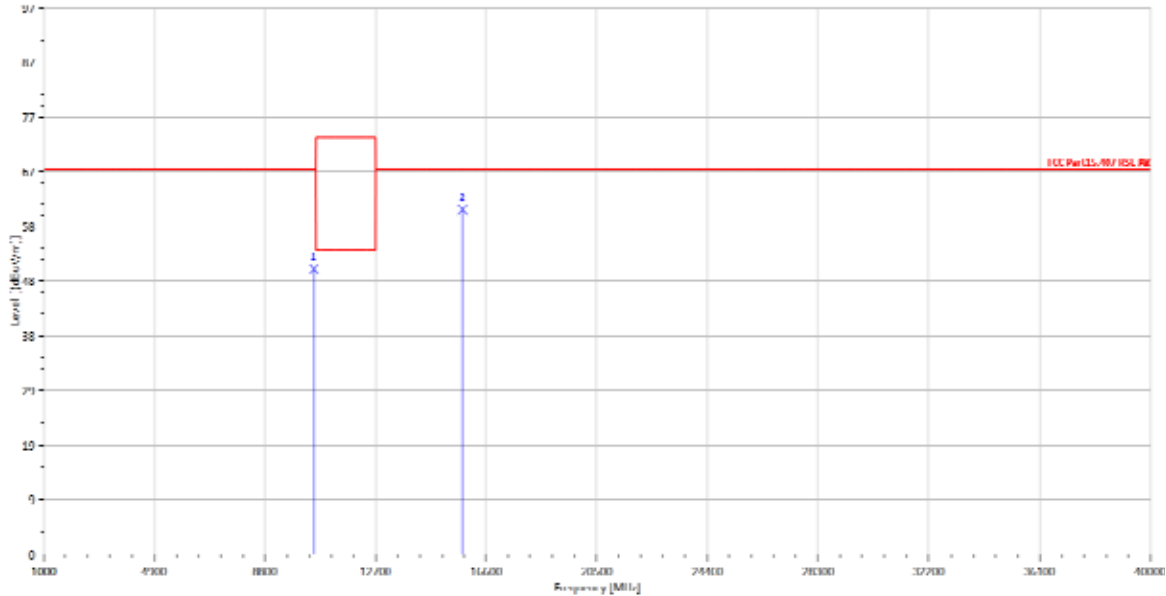
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	H	32.39	19.25	51.64	68.30	-16.66
15780.00	Peak	H	34.43	26.25	60.68	68.30	-7.62

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5260 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	H	31.35	19.25	50.60	68.30	-17.70
15780.00	Peak	H	34.90	26.25	61.15	68.30	-7.15

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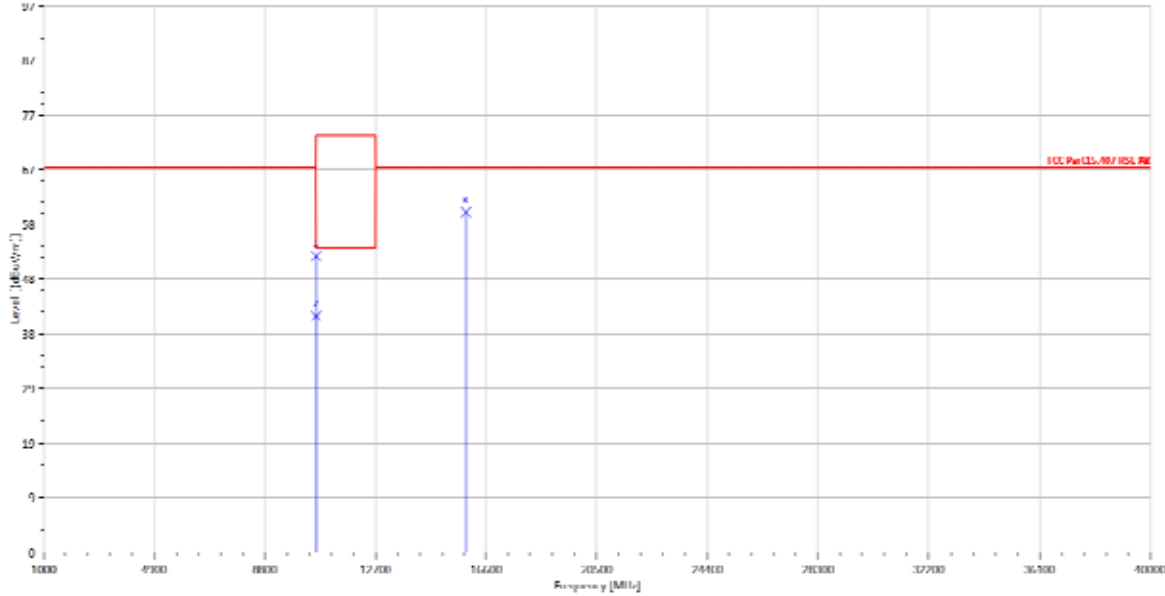
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



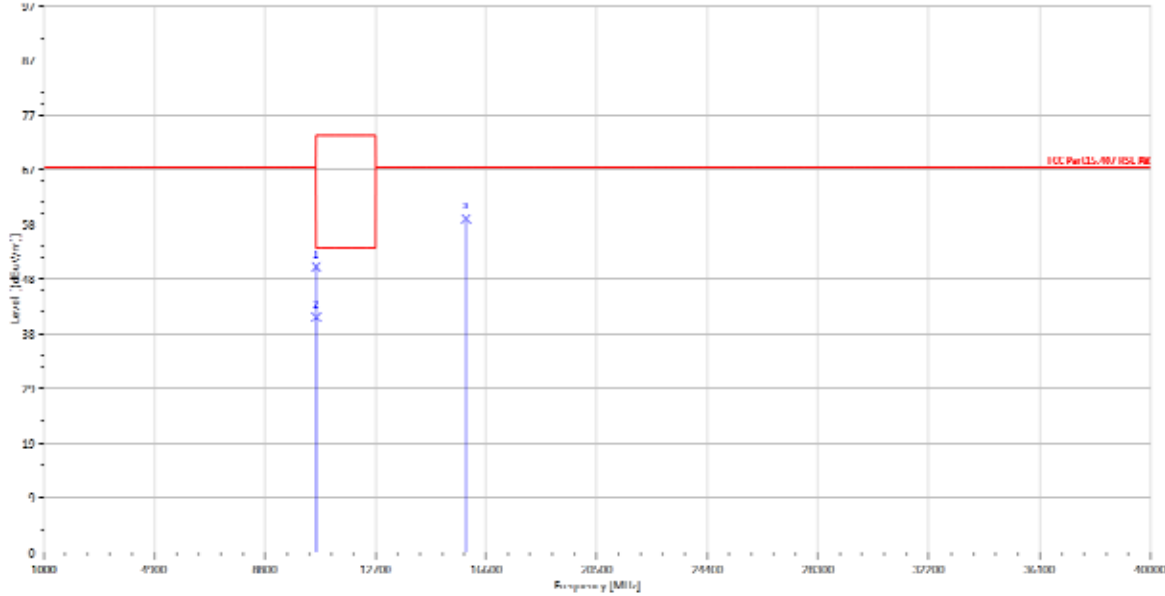
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	H	33.16	19.38	52.54	74.00	-21.46
10600.00	Average	H	22.50	19.38	41.88	54.00	-12.12
15900.00	Peak	H	33.94	26.39	60.34	68.30	-7.96

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	H	31.27	19.38	50.65	74.00	-23.35
10600.00	Average	H	22.32	19.38	41.70	54.00	-12.30
15900.00	Peak	H	32.80	26.39	59.20	68.30	-9.10

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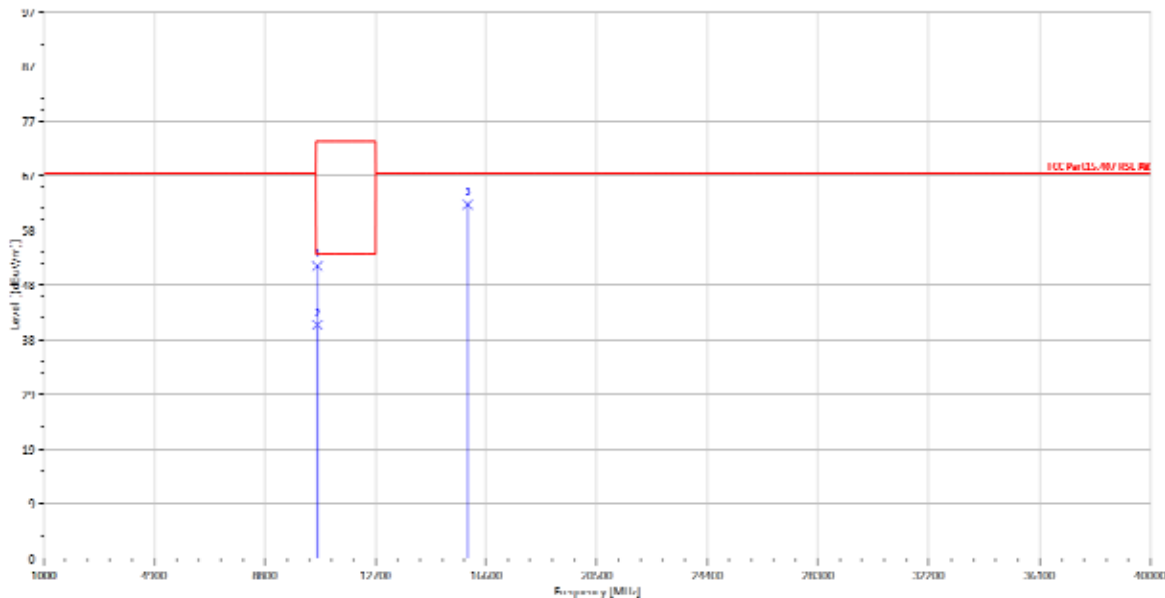
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



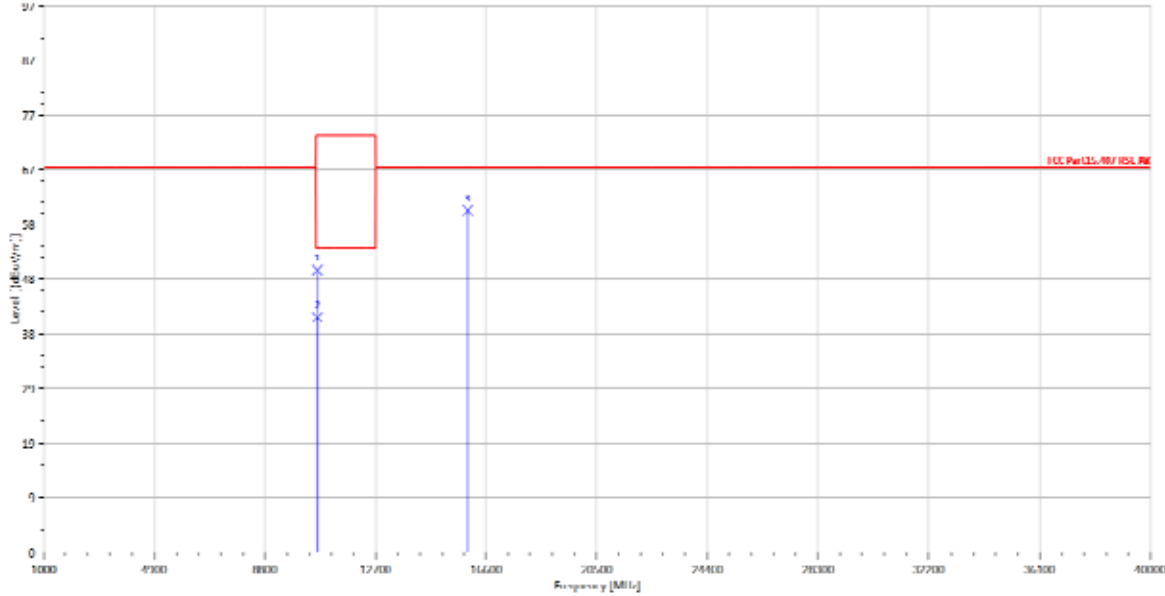
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Peak	H	32.53	19.28	51.81	74.00	-22.19
10640.00	Average	H	22.10	19.28	41.38	54.00	-12.62
15960.00	Peak	H	36.26	26.48	62.74	68.30	-5.56

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Peak	H	30.75	19.28	50.03	74.00	-23.97
10640.00	Average	H	22.35	19.28	41.63	54.00	-12.37
15960.00	Peak	H	34.14	26.48	60.62	68.30	-7.68

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Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Peak	E	49.85	11.30	61.15	74.00	-12.85
5350.00	Average	E	35.61	11.30	46.91	54.00	-7.09

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5350.00	Peak	E	50.31	11.30	61.61	74.00	-12.39
5350.00	Average	E	36.55	11.30	47.85	54.00	-6.15

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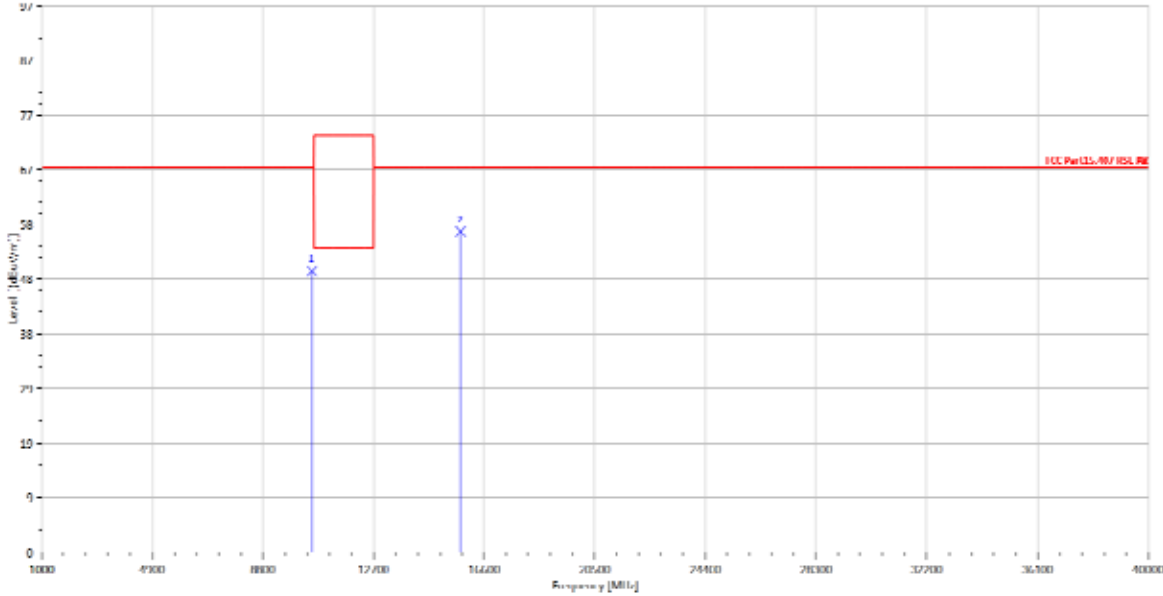
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Radiated Spurious Emission Measurement Result 802.11ac VHT20, 5250~5350 MHz

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5260 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



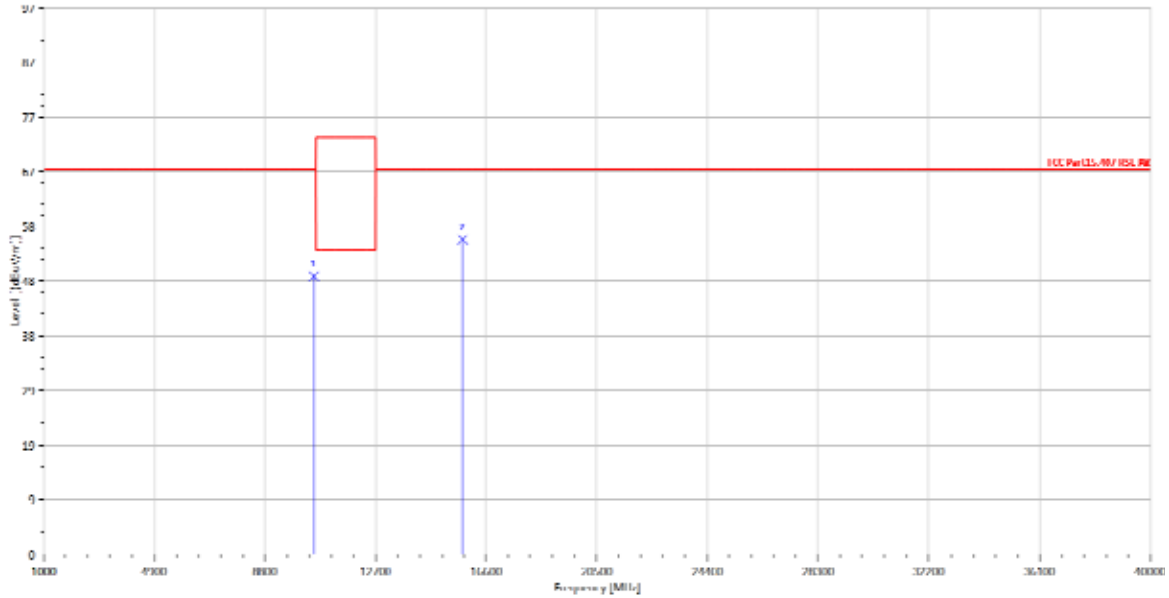
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	H	30.64	19.25	49.89	68.30	-18.41
15780.00	Peak	H	30.66	26.25	56.91	68.30	-11.39

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5260 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



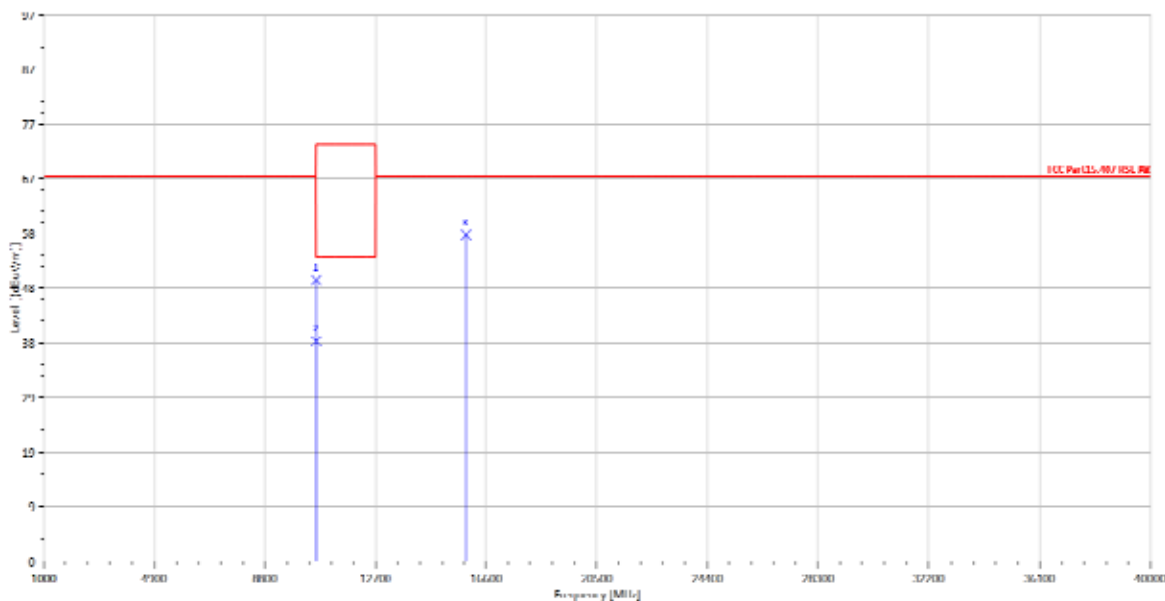
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	Peak	H	30.08	19.25	49.33	68.30	-18.97
15780.00	Peak	H	29.60	26.25	55.86	68.30	-12.44

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



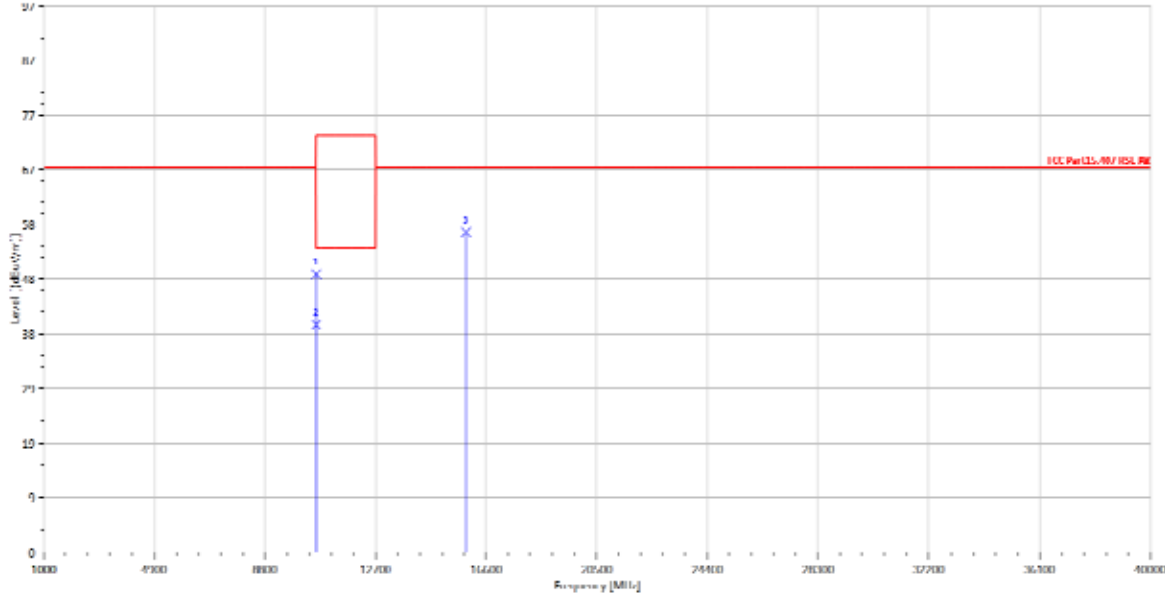
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	H	30.52	19.38	49.89	74.00	-24.11
10600.00	Average	H	19.70	19.38	39.08	54.00	-14.92
15900.00	Peak	H	31.50	26.39	57.90	68.30	-10.40

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5300 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



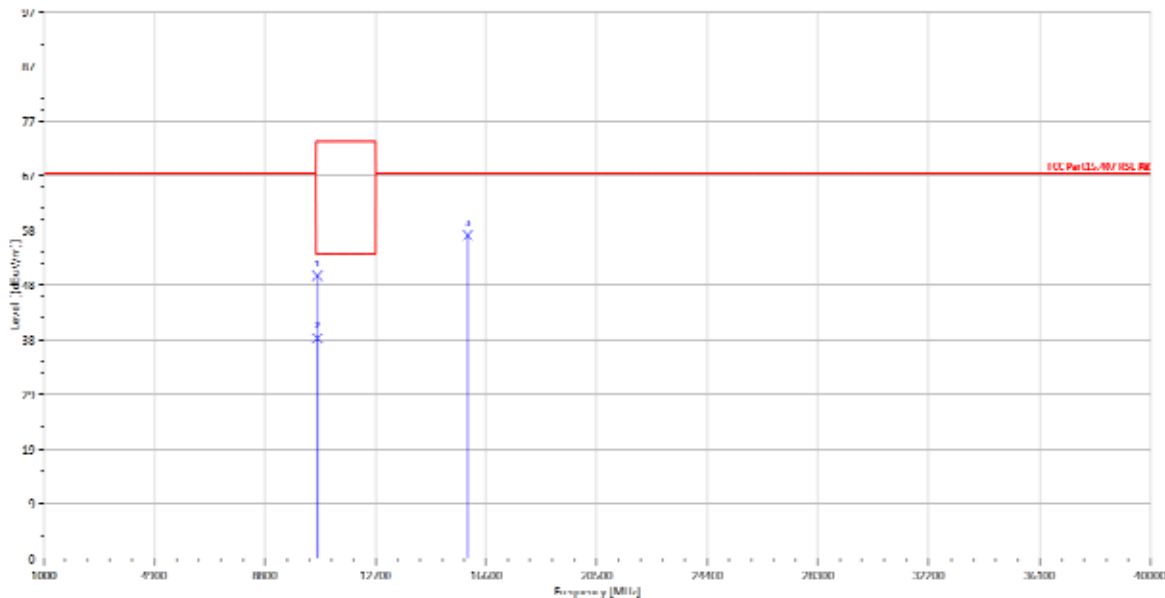
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	Peak	H	29.97	19.38	49.35	74.00	-24.65
10600.00	Average	H	20.98	19.38	40.36	54.00	-13.64
15900.00	Peak	H	30.38	26.39	56.78	68.30	-11.52

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



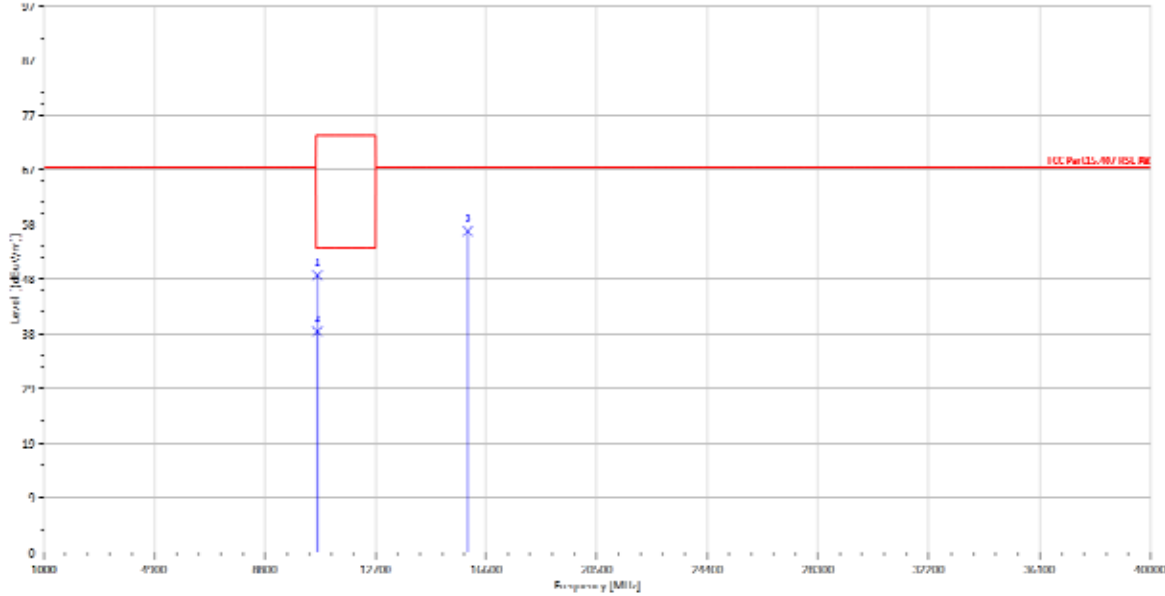
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Peak	H	30.84	19.28	50.12	74.00	-23.88
10640.00	Average	H	19.77	19.28	39.05	54.00	-14.95
15960.00	Peak	H	30.80	26.48	57.28	68.30	-11.02

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.00	Peak	H	29.86	19.28	49.14	74.00	-24.86
10640.00	Average	H	19.92	19.28	39.20	54.00	-14.80
15960.00	Peak	H	30.49	26.48	56.97	68.30	-11.33

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Band edge falling to restricted band

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	48.67	11.30	59.98	74.00	-14.02
5350.00	Average	E	35.88	11.30	47.18	54.00	-6.82

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5320 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	50.64	11.30	61.94	74.00	-12.06
5350.00	Average	E	37.25	11.30	48.55	54.00	-5.45

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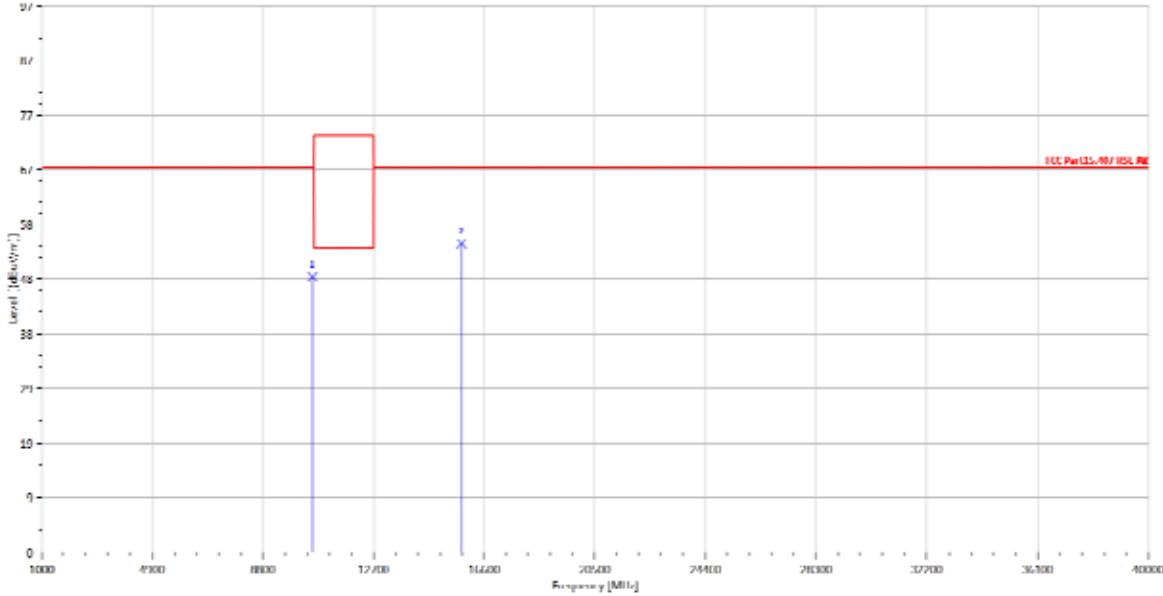
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Radiated Spurious Emission Measurement Result 802.11ac VHT40, 5250~5350 MHz

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5270 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	H	29.74	19.13	48.87	68.30	-19.43
15810.00	Peak	H	28.46	26.30	54.76	68.30	-13.54

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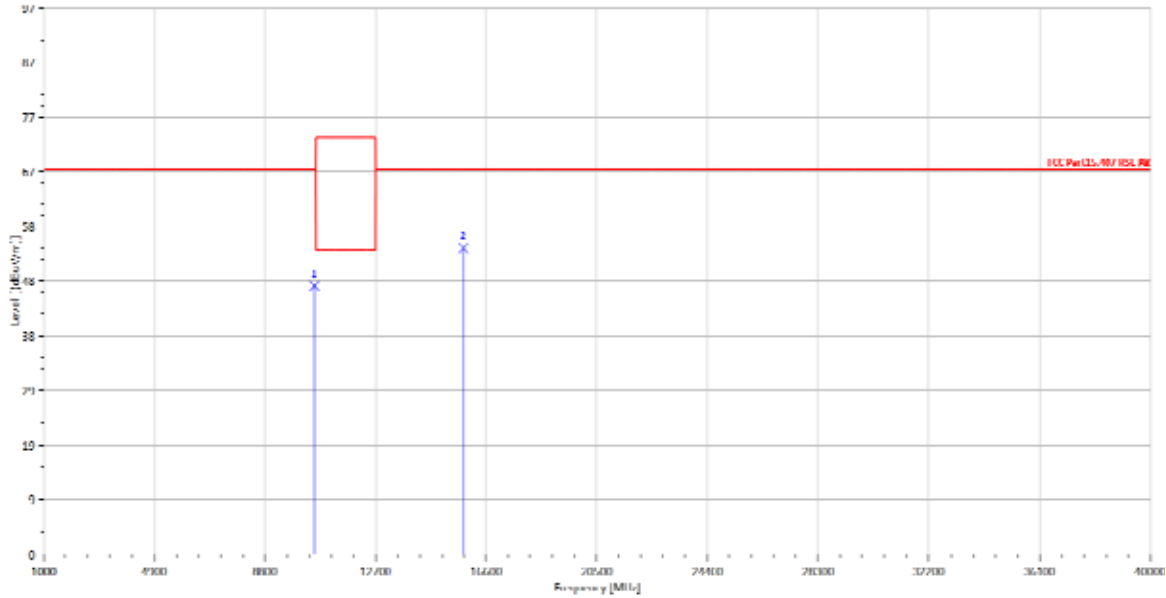
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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5270 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



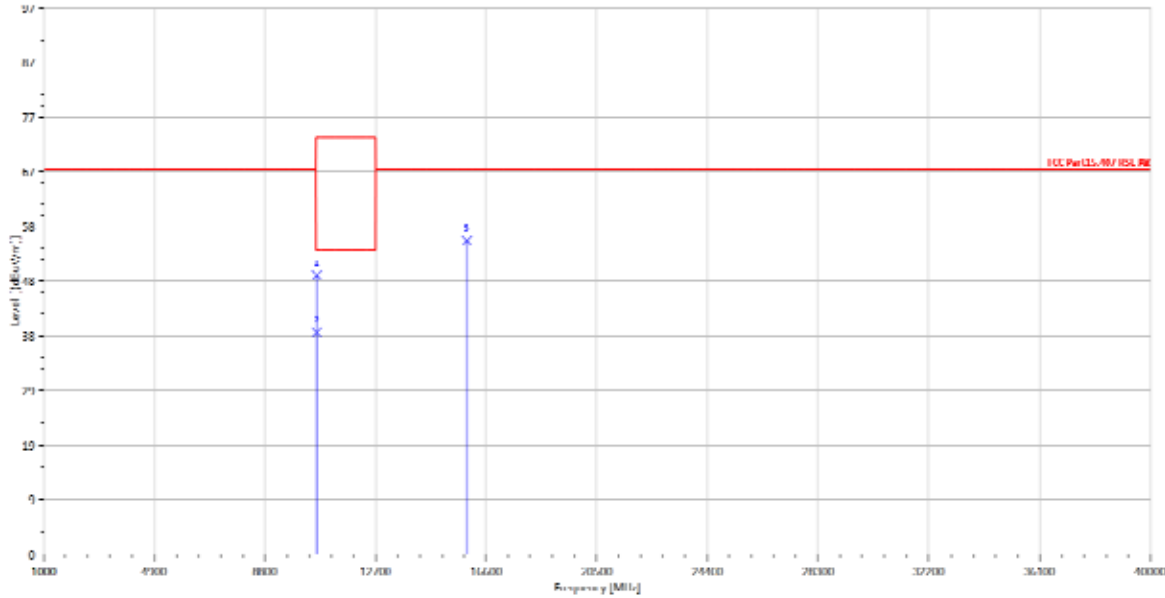
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	Peak	H	28.46	19.13	47.59	68.30	-20.71
15810.00	Peak	H	28.02	26.30	54.32	68.30	-13.98

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5310 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



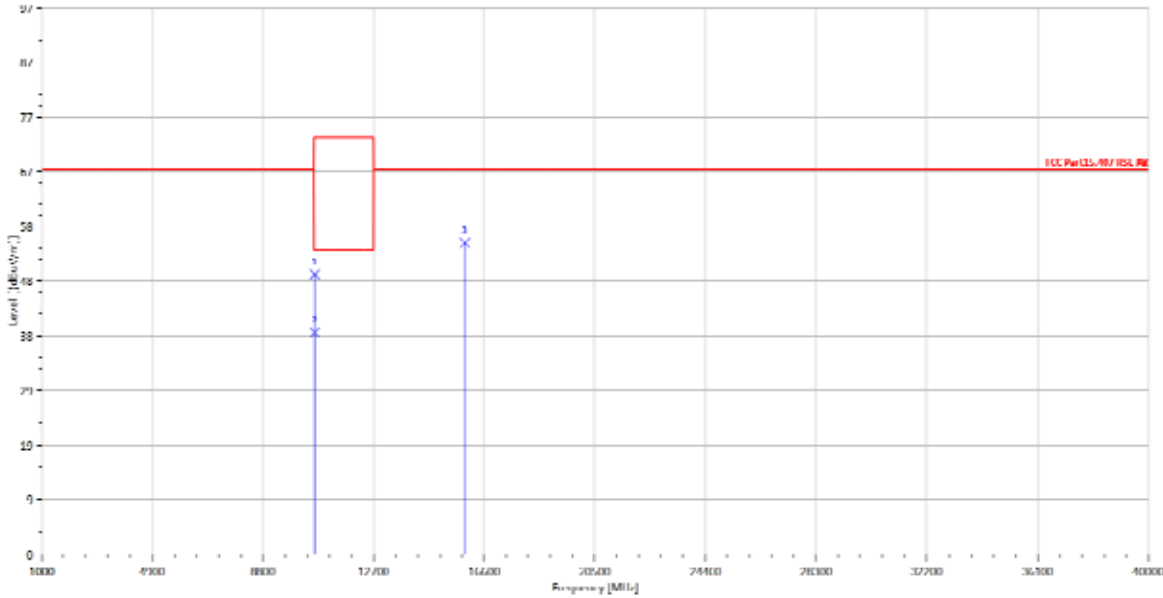
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Peak	S	30.14	19.38	49.52	74.00	-24.48
10620.00	Average	S	20.02	19.38	39.40	54.00	-14.60
15930.00	Peak	S	29.11	26.50	55.61	68.30	-12.69

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5310 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	Peak	H	30.31	19.38	49.69	74.00	-24.31
10620.00	Average	H	20.01	19.38	39.39	54.00	-14.61
15930.00	Peak	H	28.73	26.50	55.23	68.30	-13.07

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Band edge falling to restricted band

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5310 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	49.50	11.30	60.81	74.00	-13.19
5350.00	Average	E	34.55	11.30	45.85	54.00	-8.15

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5310 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	50.86	11.30	62.16	74.00	-11.84
5350.00	Average	E	35.22	11.30	46.52	54.00	-7.48

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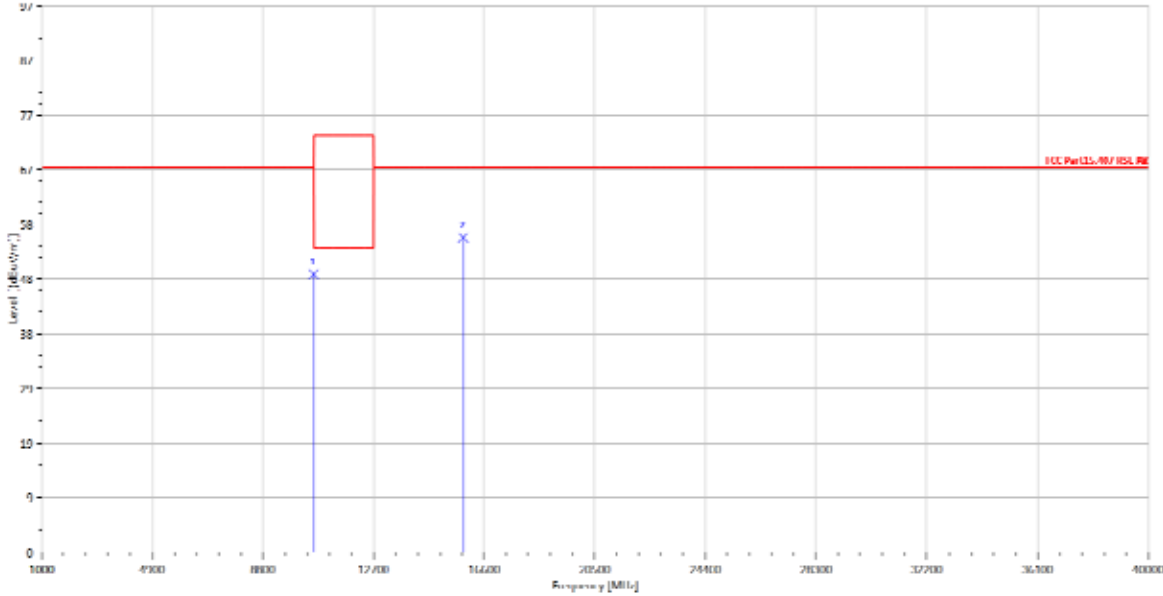
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



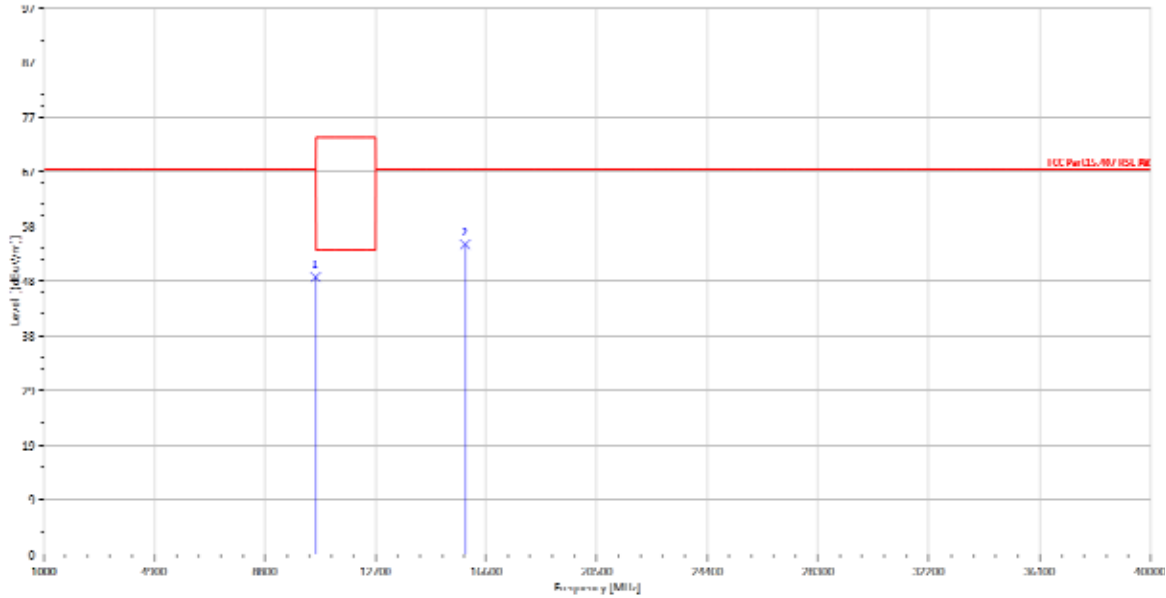
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	H	30.06	19.29	49.35	68.30	-18.95
15870.00	Peak	H	29.43	26.42	55.84	68.30	-12.46

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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10580.00	Peak	H	29.87	19.29	49.16	68.30	-19.14
15870.00	Peak	H	28.52	26.42	54.94	68.30	-13.36

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Band edge falling to restricted band

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	48.97	11.30	60.27	74.00	-13.73
5350.00	Average	E	34.50	11.30	45.80	54.00	-8.20

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5290 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5350.00	Peak	E	49.62	11.30	60.92	74.00	-13.08
5350.00	Average	E	35.32	11.30	46.62	54.00	-7.38

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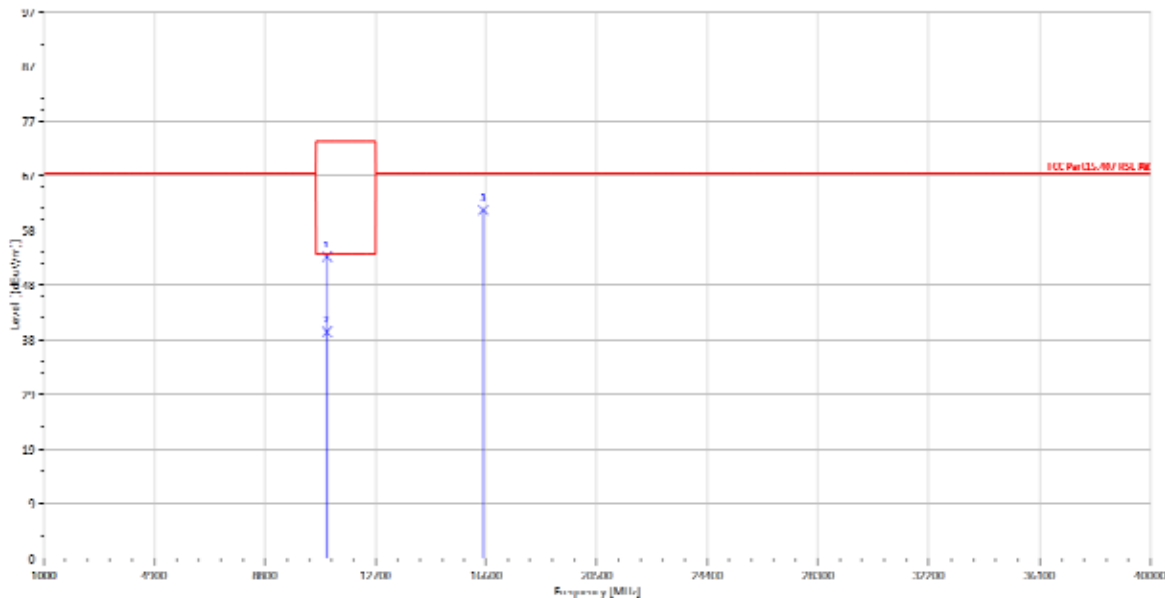
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Peak	H	33.50	20.02	53.52	74.00	-20.48
11000.00	Average	H	20.14	20.02	40.16	54.00	-13.84
16500.00	Peak	H	34.57	27.16	61.73	68.30	-6.57

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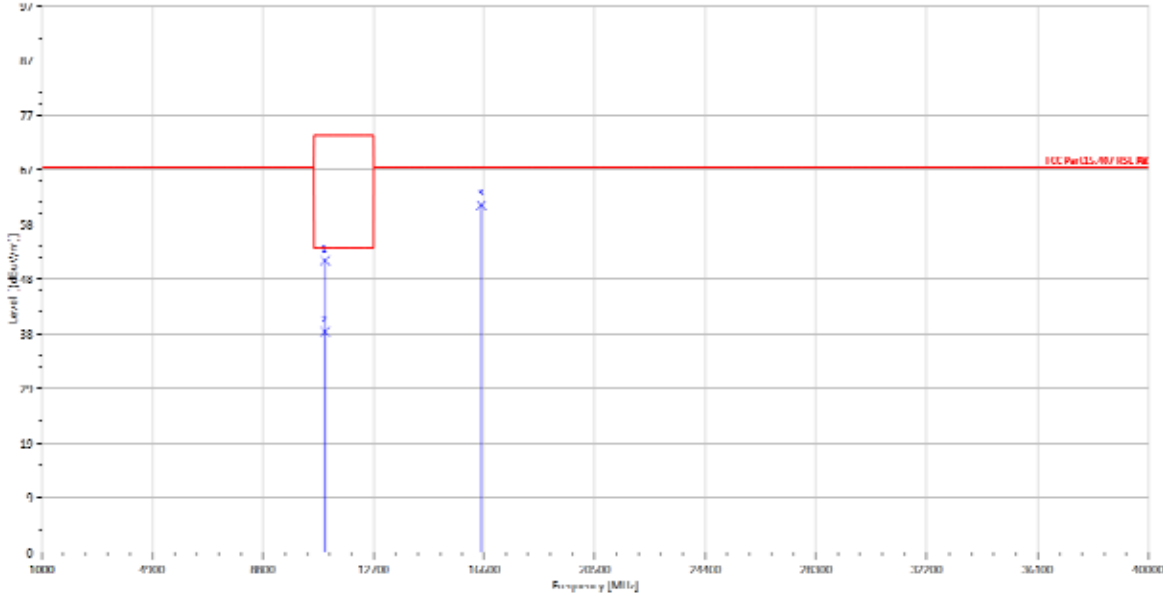
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

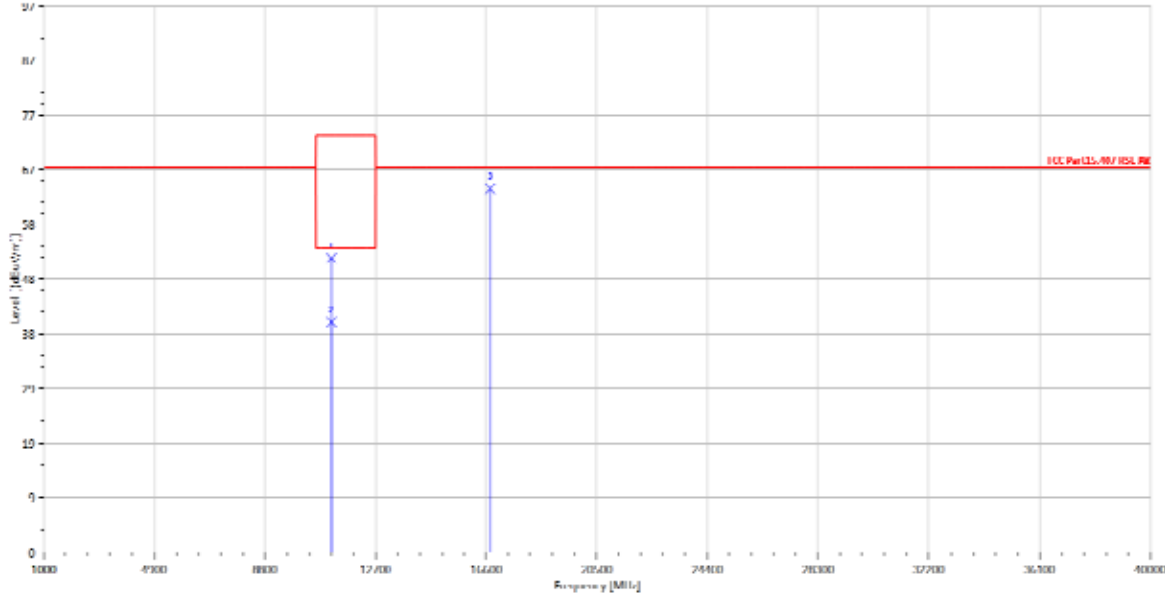


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Peak	H	31.71	20.02	51.73	74.00	-22.27
11000.00	Average	H	19.14	20.02	39.16	54.00	-14.84
16500.00	Peak	H	34.41	27.16	61.57	68.30	-6.73

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Peak	H	31.75	20.38	52.13	74.00	-21.87
11160.00	Average	H	20.43	20.38	40.81	54.00	-13.19
16740.00	Peak	H	36.73	27.79	64.52	68.30	-3.78

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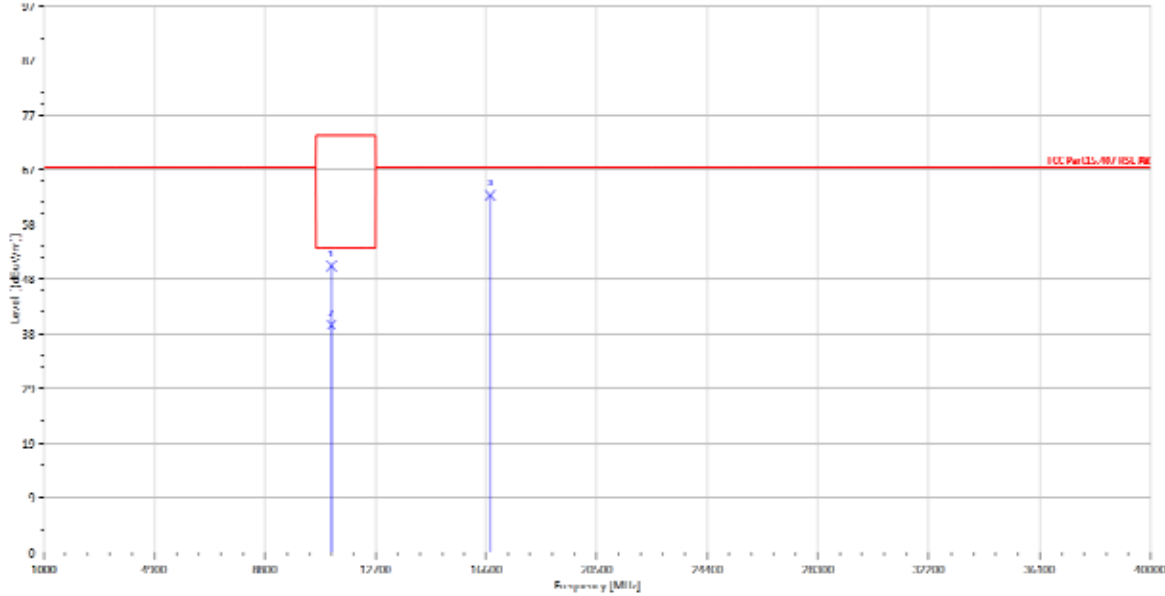
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

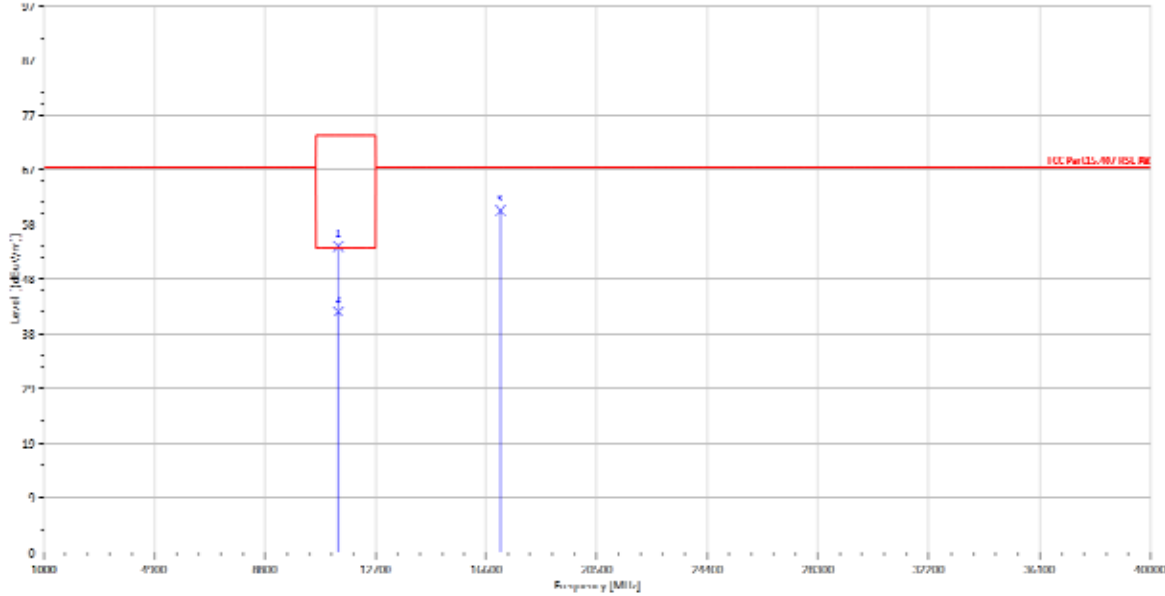


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Peak	H	30.43	20.38	50.81	74.00	-23.19
11160.00	Average	H	19.93	20.38	40.31	54.00	-13.69
16740.00	Peak	H	35.55	27.79	63.34	68.30	-4.96

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



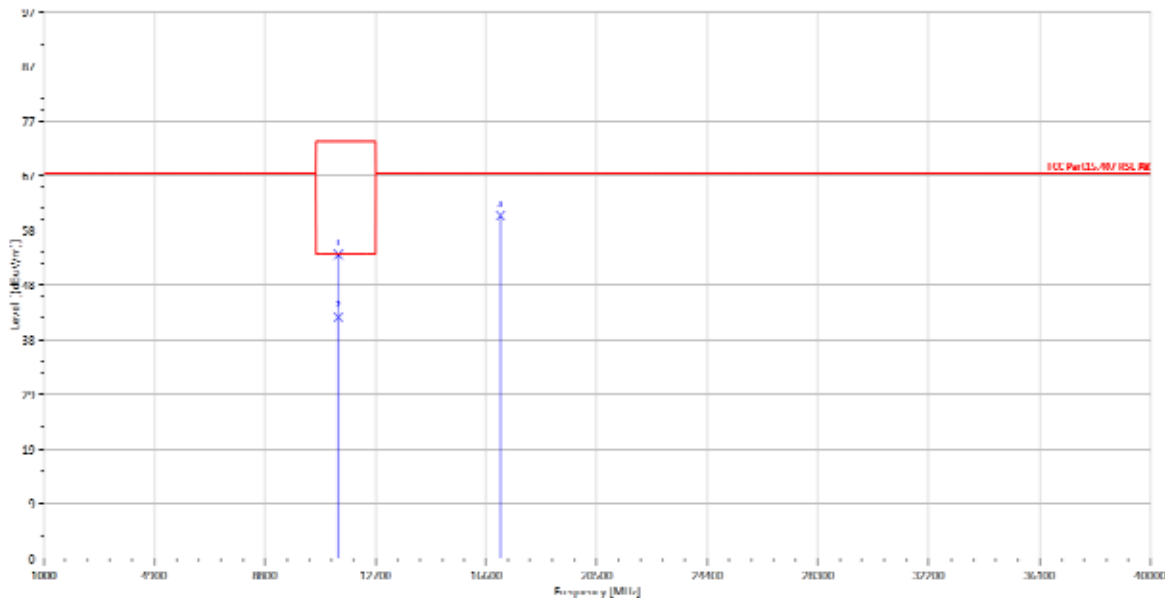
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Peak	H	33.47	20.81	54.28	74.00	-19.72
11400.00	Average	H	21.90	20.81	42.71	54.00	-11.29
17100.00	Peak	H	32.34	28.26	60.60	68.30	-7.70

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Peak	H	33.06	20.81	53.87	74.00	-20.13
11400.00	Average	H	21.99	20.81	42.80	54.00	-11.20
17100.00	Peak	H	32.53	28.26	60.79	68.30	-7.51

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Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	48.57	11.46	60.03	74.00	-13.97
5460.00	Average	E	35.32	11.46	46.78	54.00	-7.22
5470.00	Peak	E	48.41	11.46	59.87	68.30	-8.43

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	50.46	11.46	61.93	74.00	-12.07
5460.00	Average	E	36.87	11.46	48.33	54.00	-5.67
5470.00	Peak	E	51.87	11.46	63.32	68.30	-4.98

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	Peak	E	47.65	12.27	59.92	68.30	-8.38

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	Peak	E	52.10	12.27	64.37	68.30	-3.93

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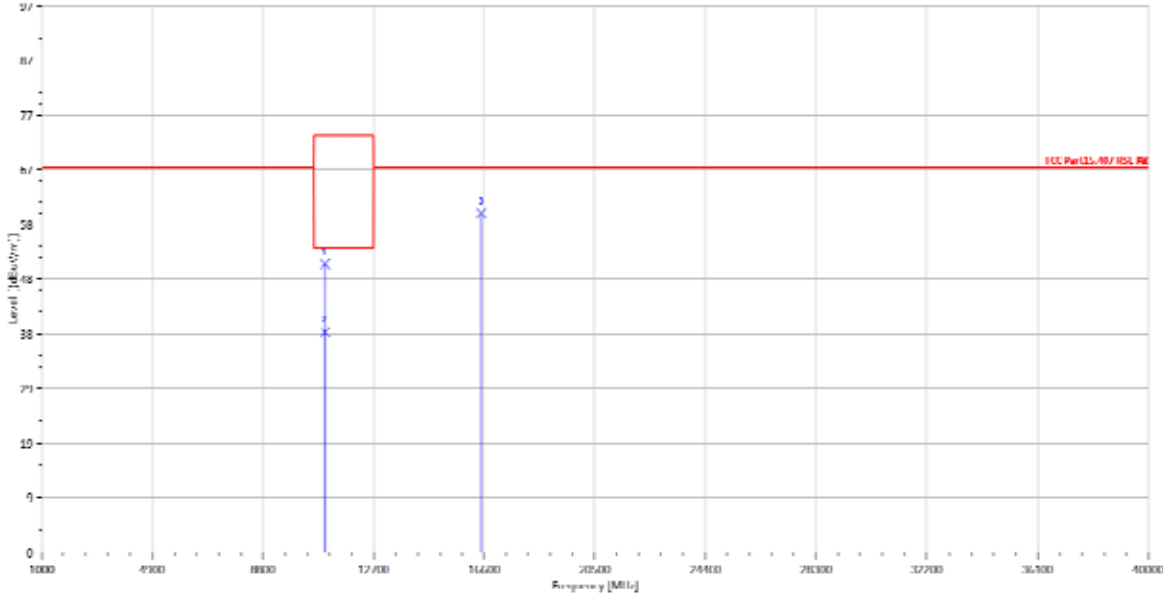
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Radiated Spurious Emission Measurement Result 802.11ac VHT20, 5470~5725 MHz

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Peak	H	31.13	20.02	51.15	74.00	-22.85
11000.00	Average	H	19.08	20.02	39.10	54.00	-14.90
16500.00	Peak	H	32.99	27.16	60.16	68.30	-8.14

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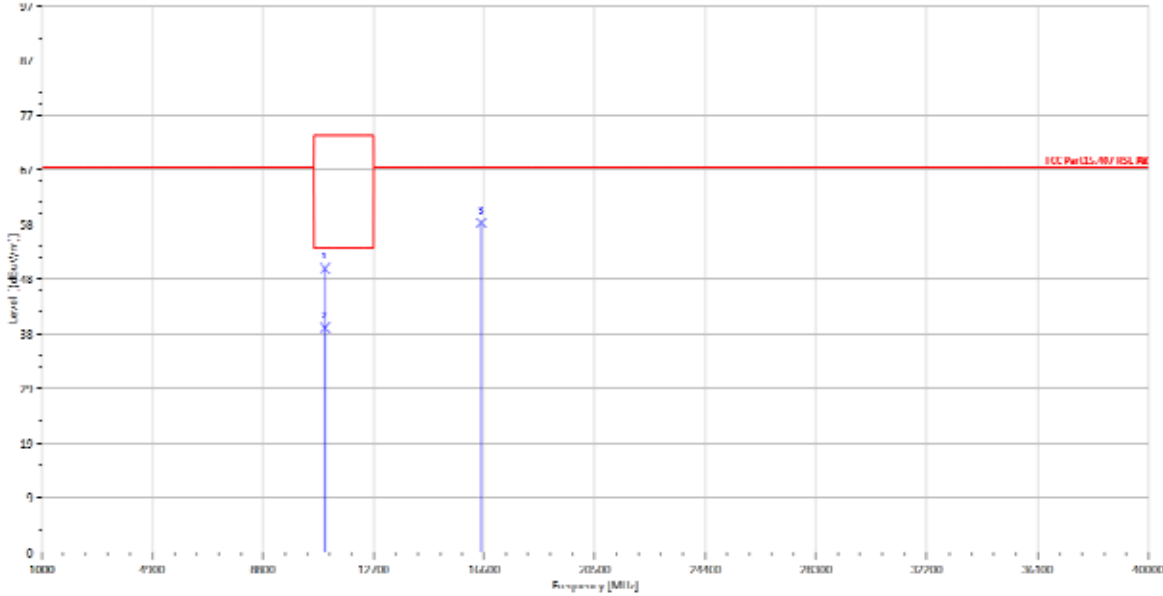
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11000.00	Peak	H	30.31	20.02	50.33	74.00	-23.67
11000.00	Average	H	19.83	20.02	39.85	54.00	-14.15
16500.00	Peak	H	31.27	27.16	58.43	68.30	-9.87

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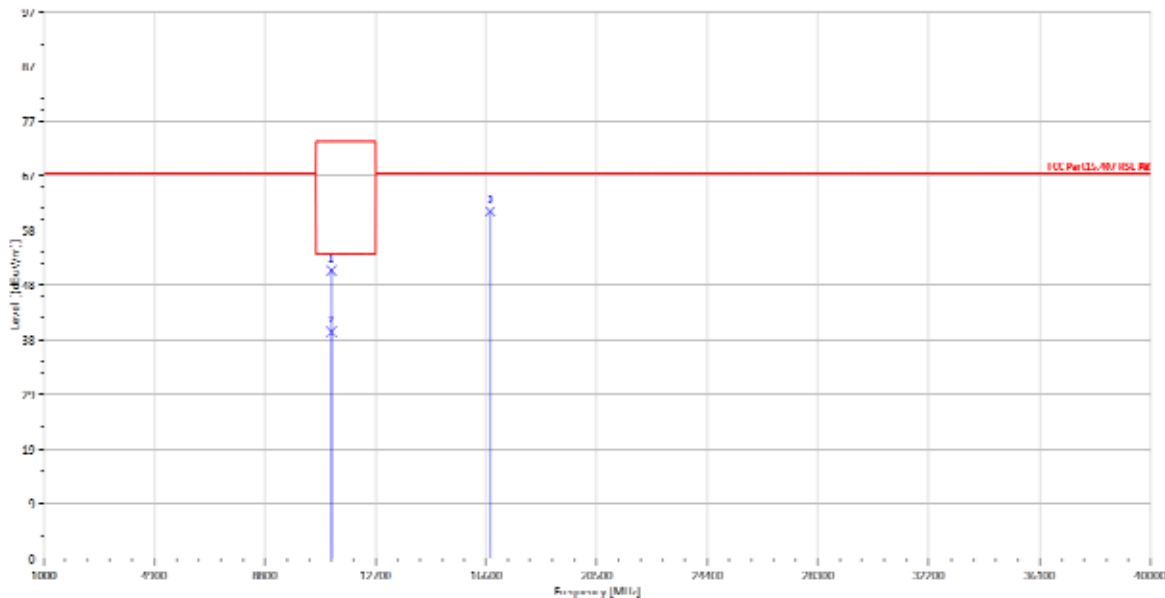
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Peak	H	30.64	20.38	51.02	74.00	-22.98
11160.00	Average	H	19.76	20.38	40.14	54.00	-13.86
16740.00	Peak	H	33.73	27.79	61.51	68.30	-6.79

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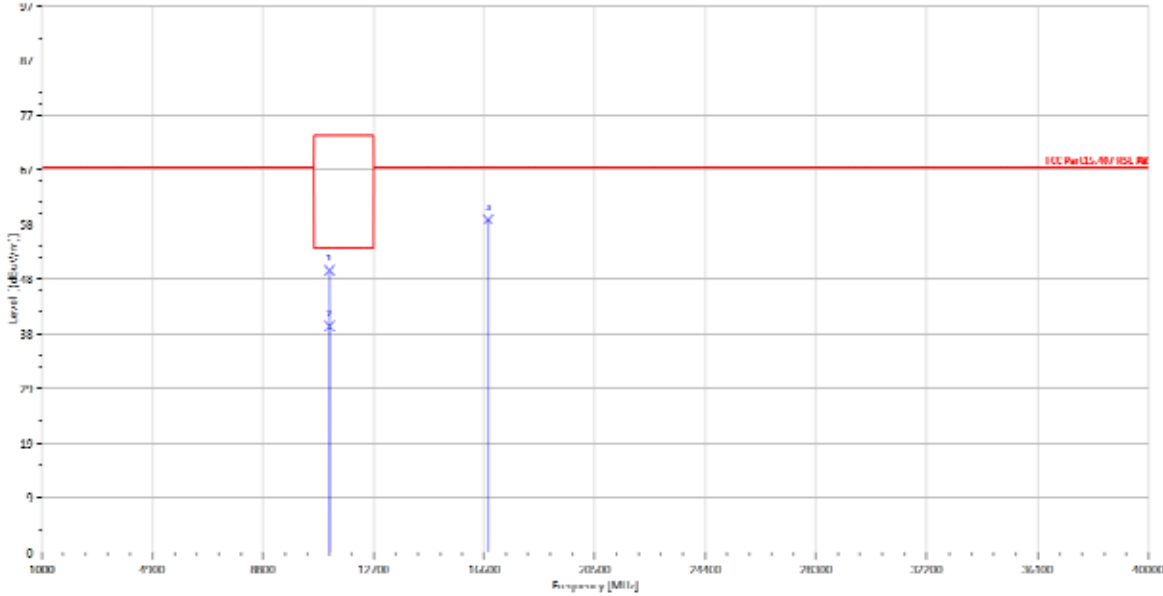
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5580 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

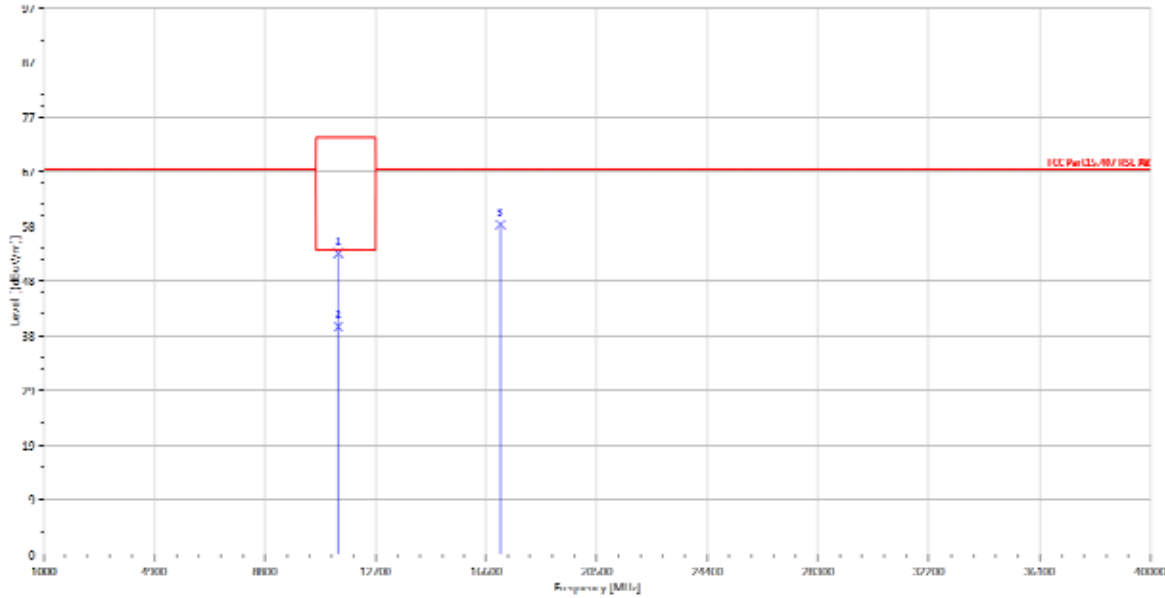


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11160.00	Peak	H	29.62	20.38	50.00	74.00	-24.00
11160.00	Average	H	19.71	20.38	40.09	54.00	-13.91
16740.00	Peak	H	31.20	27.79	58.98	68.30	-9.32

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Peak	H	32.58	20.81	53.39	74.00	-20.61
11400.00	Average	H	19.56	20.81	40.37	54.00	-13.63
17100.80	Peak	H	30.21	28.25	58.46	68.30	-9.84

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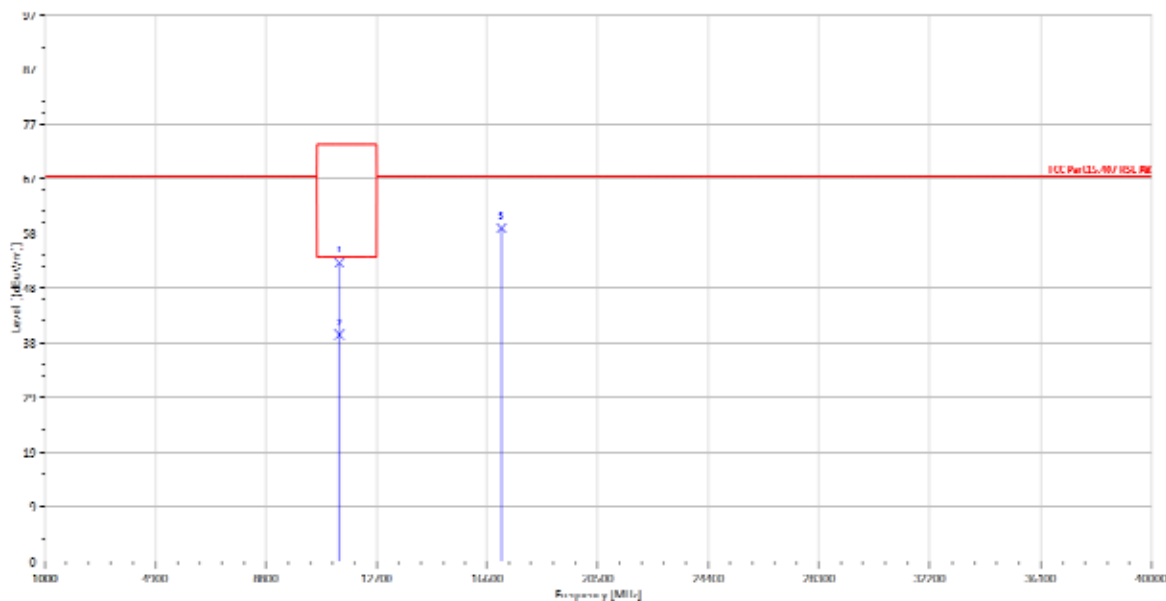
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.00	Peak	H	32.18	20.81	52.99	74.00	-21.01
11400.00	Average	H	19.38	20.81	40.19	54.00	-13.81
17100.00	Peak	H	30.83	28.26	59.09	68.30	-9.21

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Band edge falling to restricted band

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	48.60	11.46	60.06	74.00	-13.94
5460.00	Average	E	35.38	11.46	46.84	54.00	-7.16
5470.00	Peak	E	48.85	11.46	60.30	68.30	-8.00

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5500 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	49.72	11.46	61.18	74.00	-12.82
5460.00	Average	E	36.07	11.46	47.53	54.00	-6.47
5470.00	Peak	E	52.87	11.46	64.32	68.30	-3.98

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	47.29	12.27	59.56	68.30	-8.74

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5700 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	50.22	12.27	62.49	68.30	-5.81

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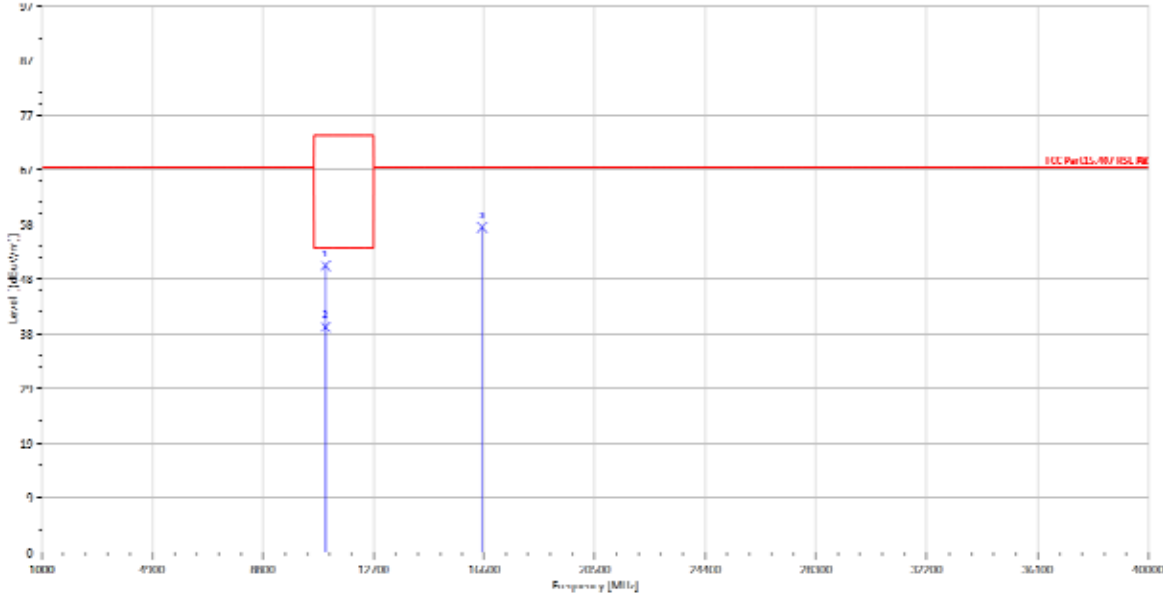
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Radiated Spurious Emission Measurement Result 802.11ac VHT40, 5470~5725 MHz

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Peak	H	30.80	20.04	50.84	74.00	-23.16
11020.00	Average	H	19.91	20.04	39.95	54.00	-14.05
16530.00	Peak	H	30.37	27.29	57.66	68.30	-10.64

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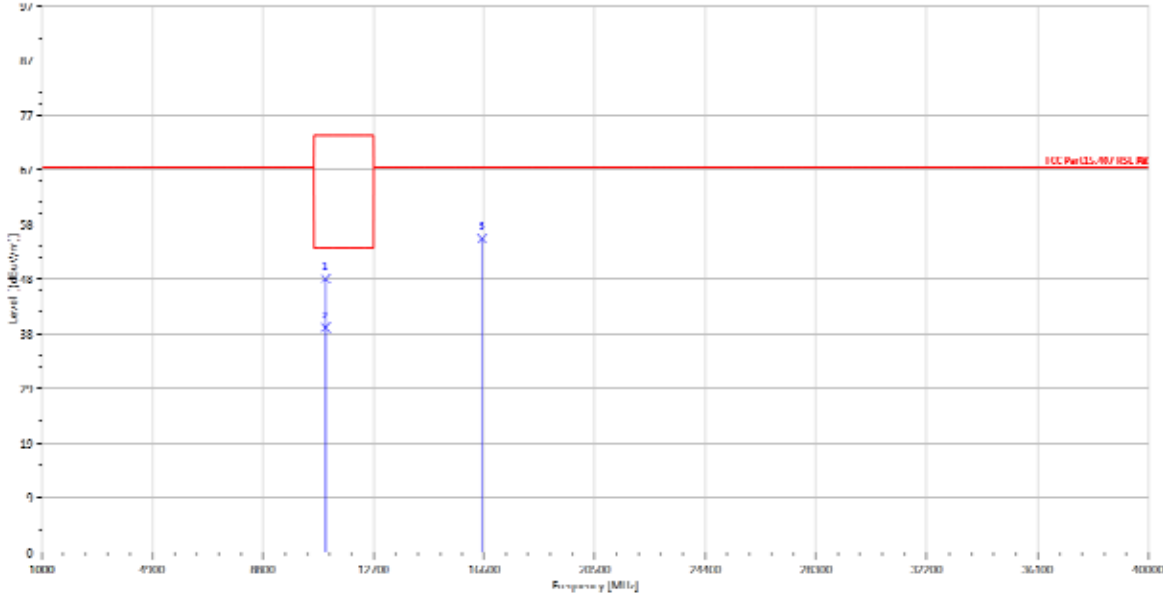
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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

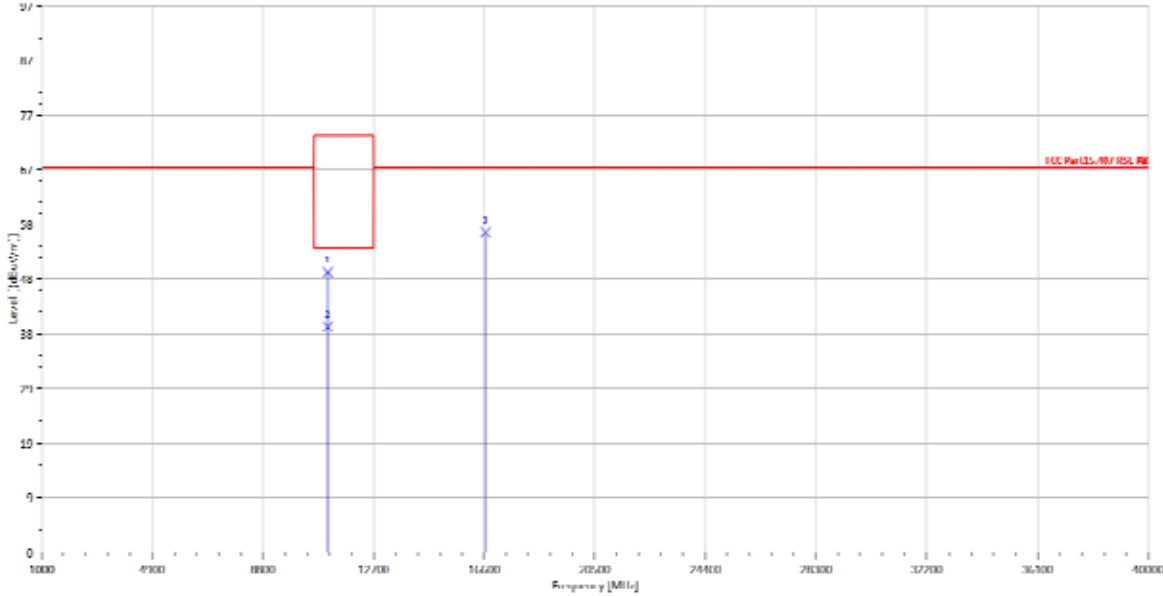


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11020.00	Peak	H	28.47	20.04	48.51	74.00	-25.49
11020.00	Average	H	19.83	20.04	39.87	54.00	-14.13
16530.00	Peak	H	28.34	27.29	55.63	68.30	-12.67

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5550 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



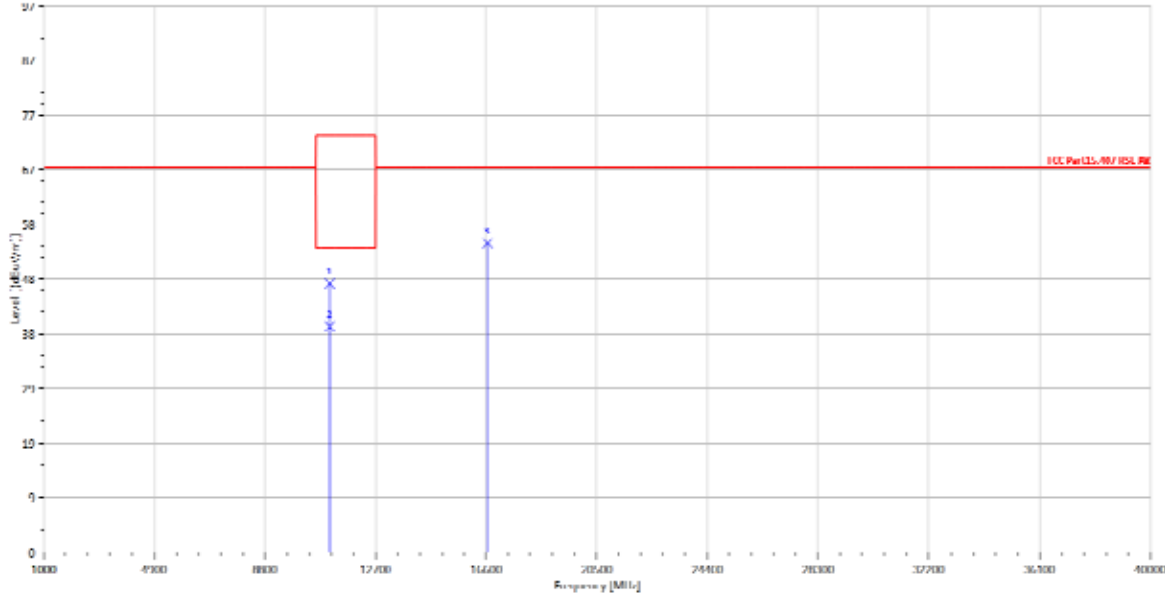
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Peak	H	29.50	20.21	49.70	74.00	-24.30
11100.00	Average	H	19.79	20.21	40.00	54.00	-14.00
16650.00	Peak	H	29.24	27.54	56.78	68.30	-11.52

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5550 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



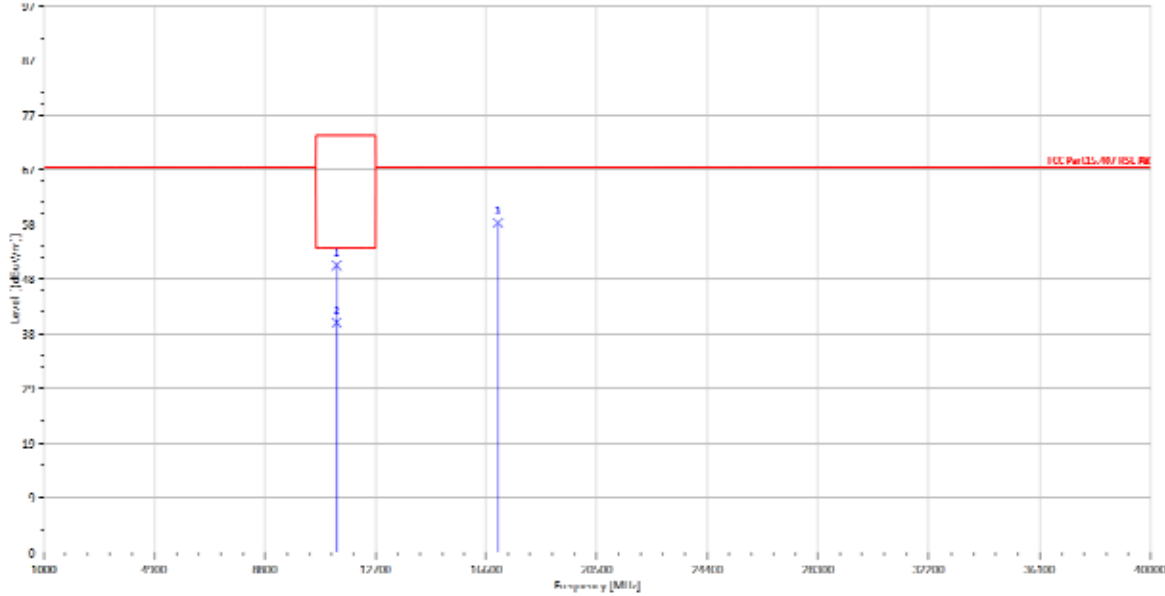
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	Peak	H	27.45	20.21	47.65	74.00	-26.35
11100.00	Average	H	19.82	20.21	40.03	54.00	-13.97
16650.00	Peak	H	27.29	27.54	54.84	68.30	-13.46

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

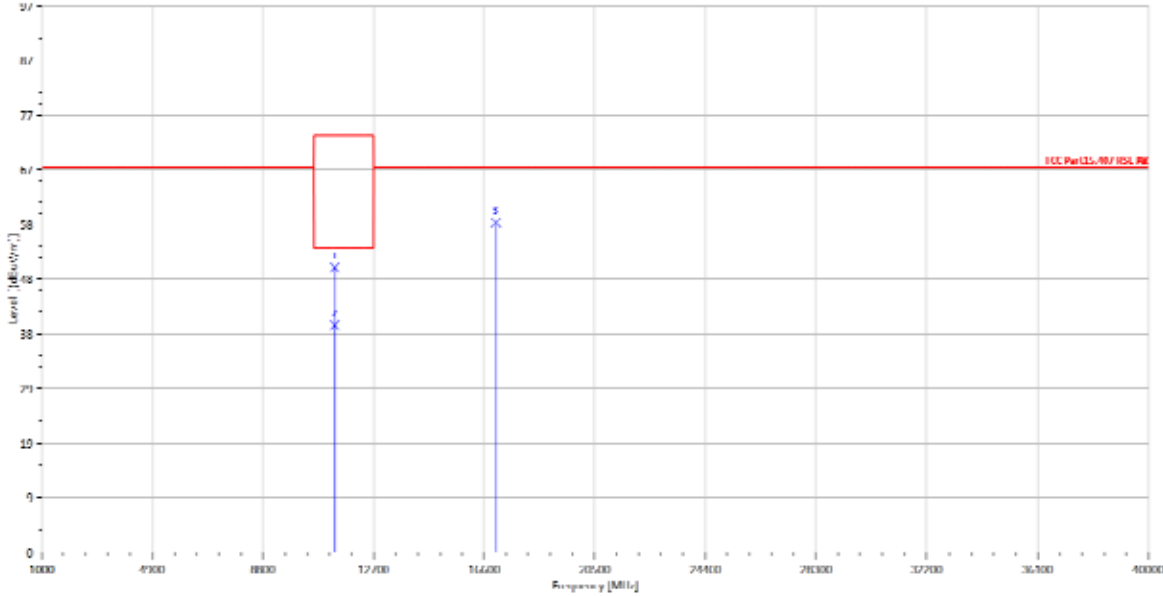


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Peak	H	30.29	20.61	50.90	74.00	-23.10
11340.00	Average	H	20.12	20.61	40.73	54.00	-13.27
17010.00	Peak	H	30.13	28.28	58.41	68.30	-9.89

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11340.00	Peak	H	29.89	20.61	50.50	74.00	-23.50
11340.00	Average	H	19.65	20.61	40.26	54.00	-13.74
17010.00	Peak	H	30.19	28.28	58.47	68.30	-9.83

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Band edge falling to restricted band

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	49.97	11.46	61.43	74.00	-12.57
5460.00	Average	E	34.15	11.46	45.61	54.00	-8.39
5470.00	Peak	E	48.00	11.46	59.46	68.30	-8.84

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5510 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	50.20	11.46	61.66	74.00	-12.34
5460.00	Average	E	34.78	11.46	46.24	54.00	-7.76
5470.00	Peak	E	54.39	11.46	65.84	68.30	-2.46

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	46.41	12.27	58.68	68.30	-9.62

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5670 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	48.34	12.27	60.61	68.30	-7.69

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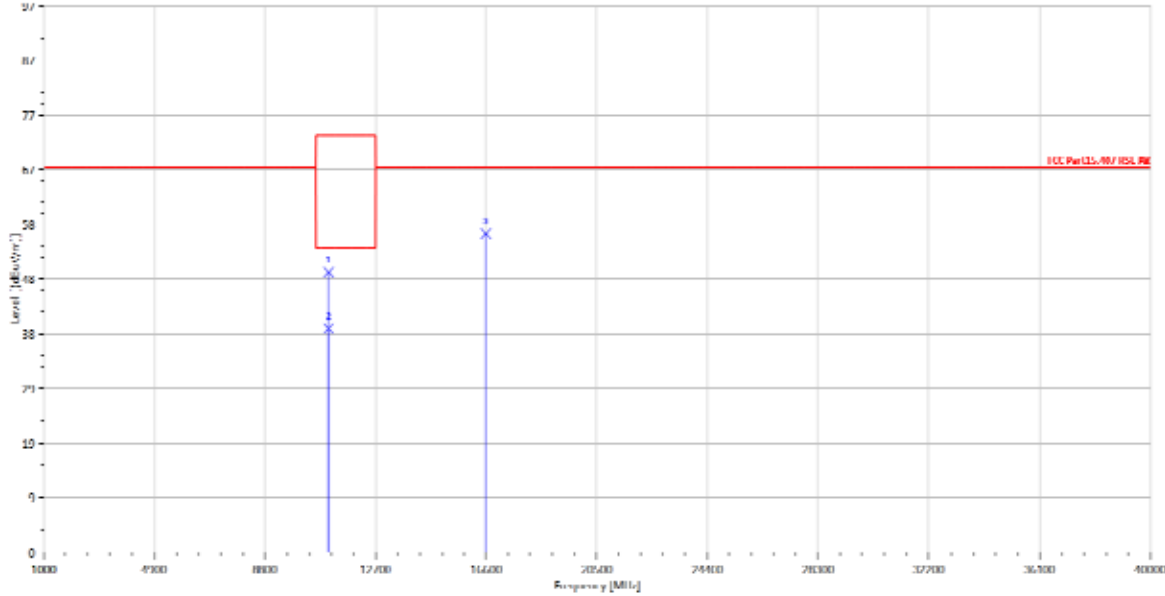
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Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5530 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Peak	H	29.56	20.14	49.70	74.00	-24.30
11060.00	Average	H	19.56	20.14	39.70	54.00	-14.30
16590.00	Peak	H	29.22	27.33	56.55	68.30	-11.75

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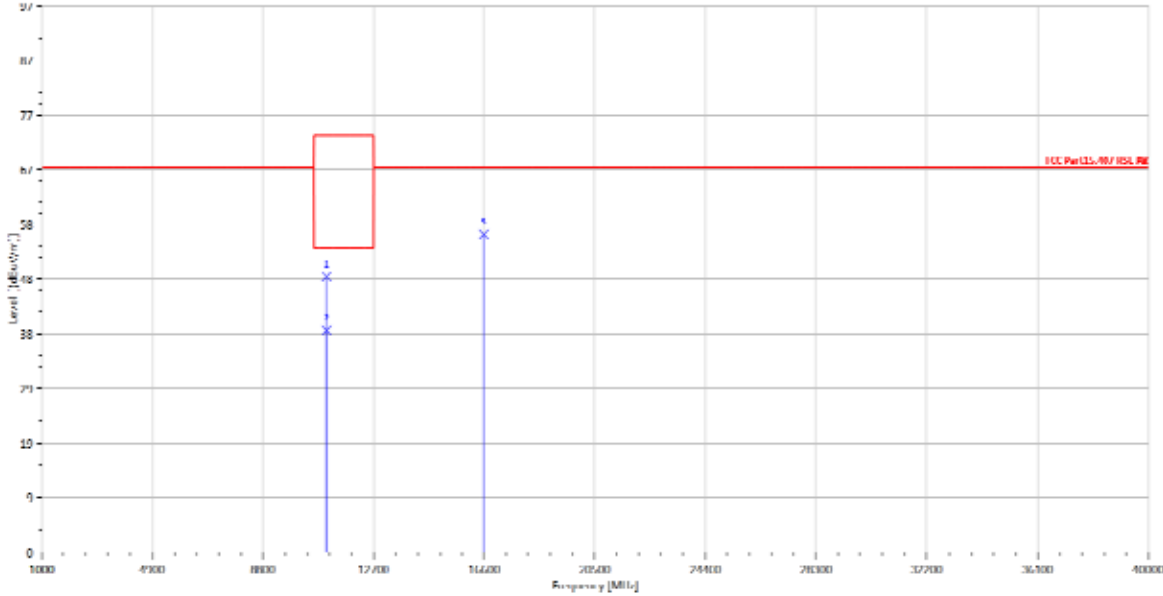
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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5530 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11060.00	Peak	H	28.77	20.14	48.91	74.00	-25.09
11060.00	Average	H	19.26	20.14	39.40	54.00	-14.60
16590.00	Peak	H	29.10	27.33	56.43	68.30	-11.87

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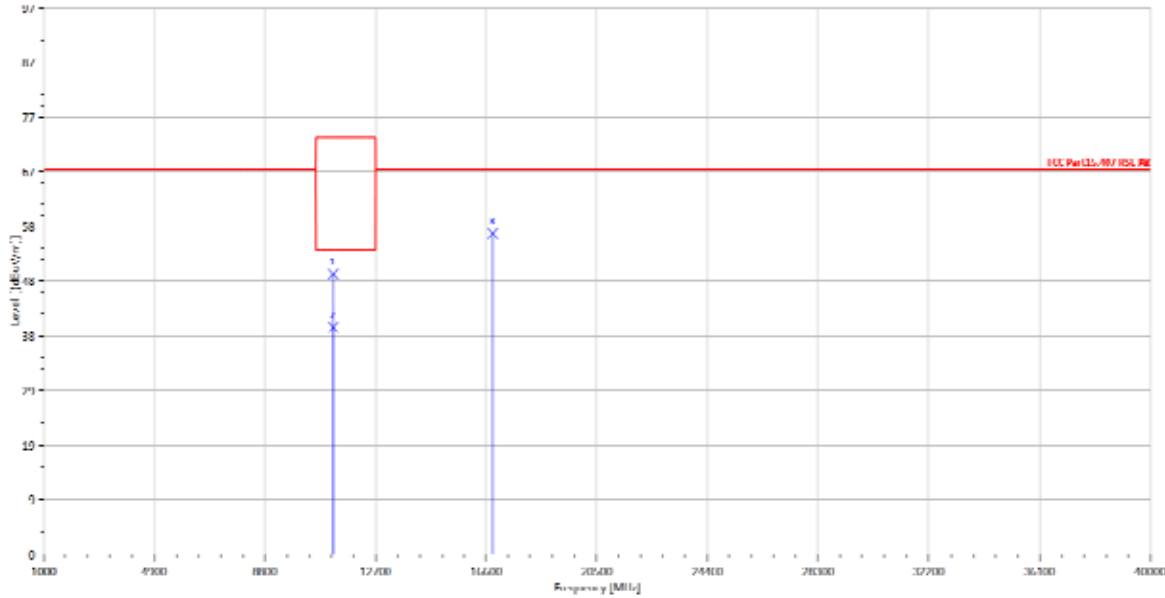
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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5610 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



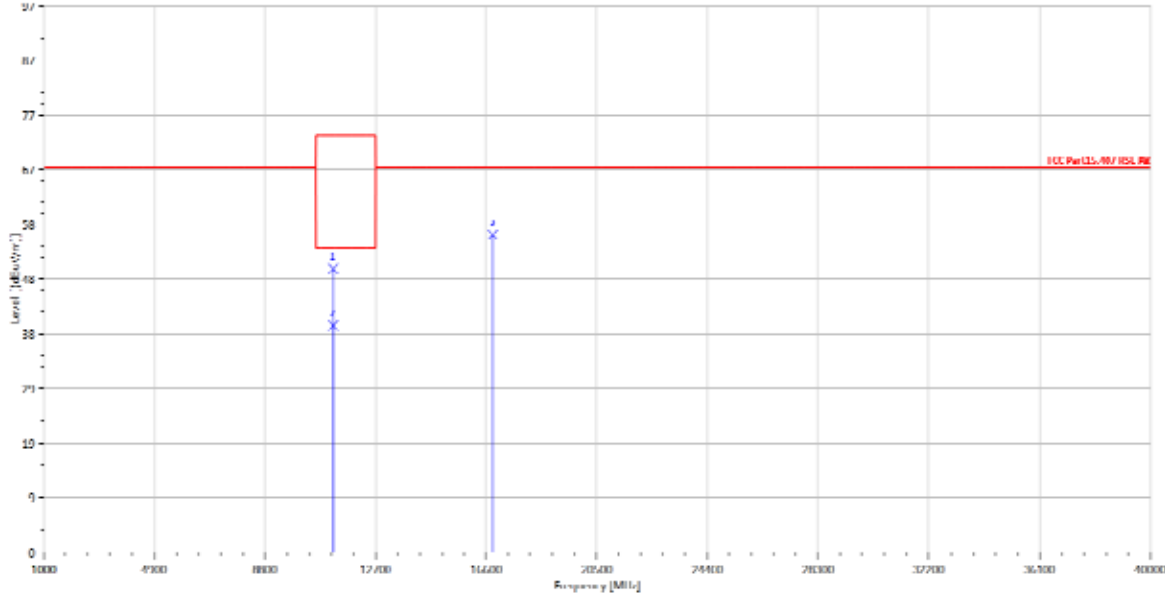
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Peak	H	29.33	20.39	49.73	74.00	-24.27
11220.00	Average	H	19.85	20.39	40.24	54.00	-13.76
16830.00	Peak	H	29.05	27.86	56.91	68.30	-11.39

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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5610 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



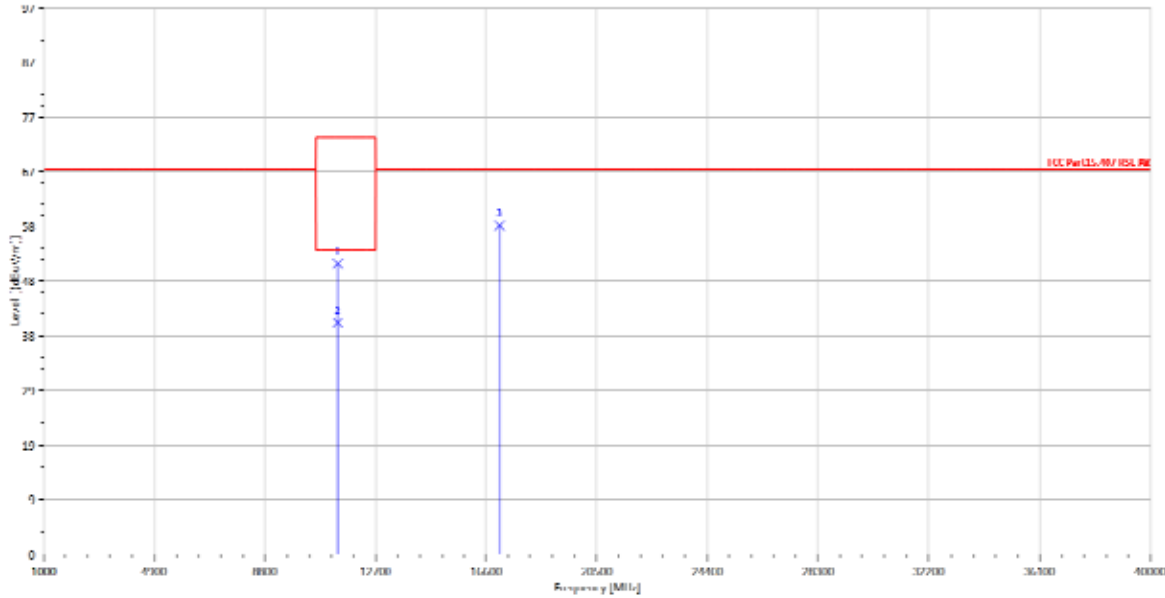
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11220.00	Peak	H	29.88	20.39	50.27	74.00	-23.73
11220.00	Average	H	19.82	20.39	40.21	54.00	-13.79
16830.00	Peak	H	28.47	27.86	56.33	68.30	-11.97

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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5690 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



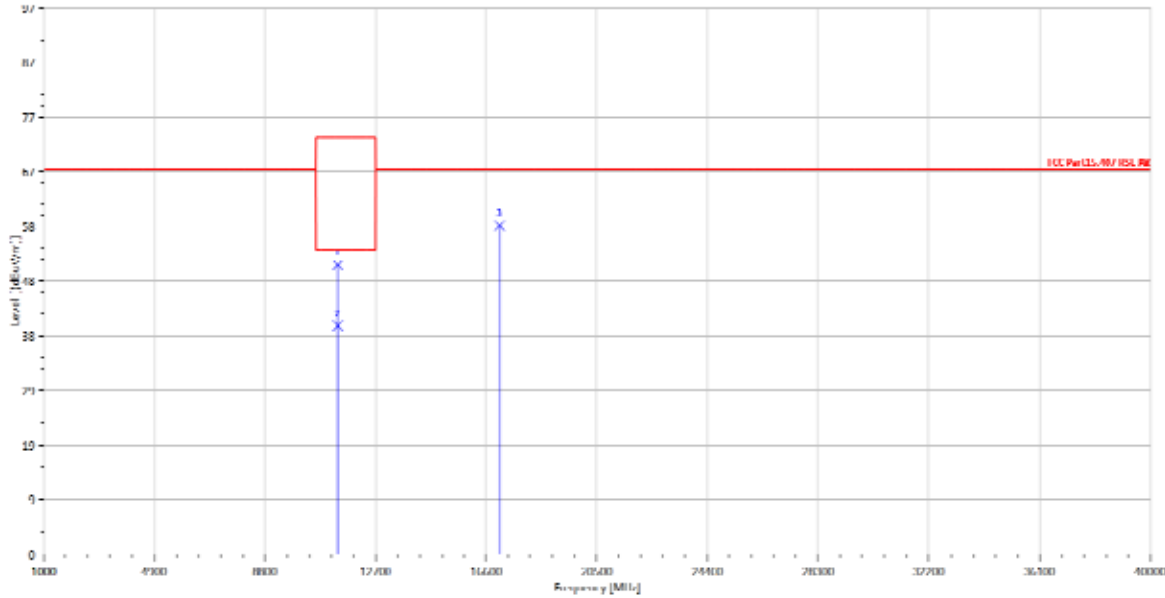
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Peak	H	30.68	20.84	51.53	74.00	-22.47
11380.00	Average	H	20.23	20.84	41.07	54.00	-12.93
17070.00	Peak	H	30.08	28.21	58.29	68.30	-10.01

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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5690 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11380.00	Peak	H	30.49	20.84	51.33	74.00	-22.67
11380.00	Average	H	19.71	20.84	40.55	54.00	-13.45
17070.00	Peak	H	30.07	28.21	58.29	68.30	-10.01

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Band edge falling to restricted band

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5530 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	48.12	11.46	59.58	74.00	-14.42
5460.00	Average	E	34.52	11.46	45.98	54.00	-8.02
5470.00	Peak	E	48.53	11.46	59.99	68.30	-8.31

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5530 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

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

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

“---” : denotes Noise Floor.

The trace on RE (radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBµV	dB	dBµV/m	dBµV/m	dB
5460.00	Peak	E	54.29	11.46	65.75	74.00	-8.25
5460.00	Average	E	38.36	11.46	49.82	54.00	-4.18
5470.00	Peak	E	48.53	11.46	59.99	68.30	-8.31

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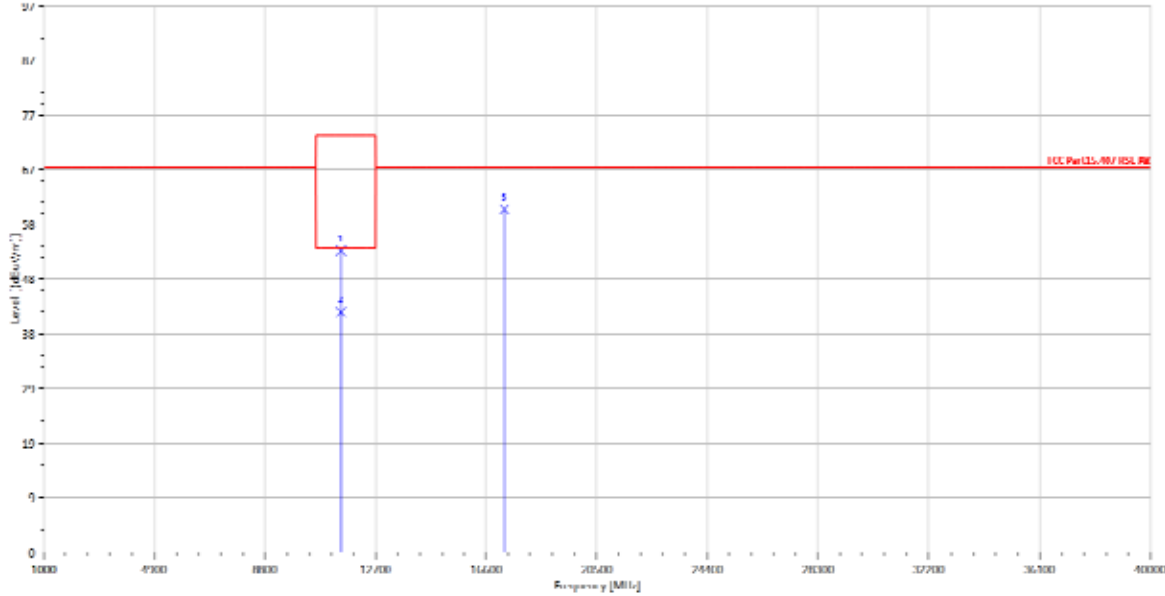
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	H	32.42	21.08	53.50	74.00	-20.50
11490.00	Average	H	21.53	21.08	42.61	54.00	-11.39
17235.00	Peak	H	32.79	28.06	60.85	68.30	-7.45

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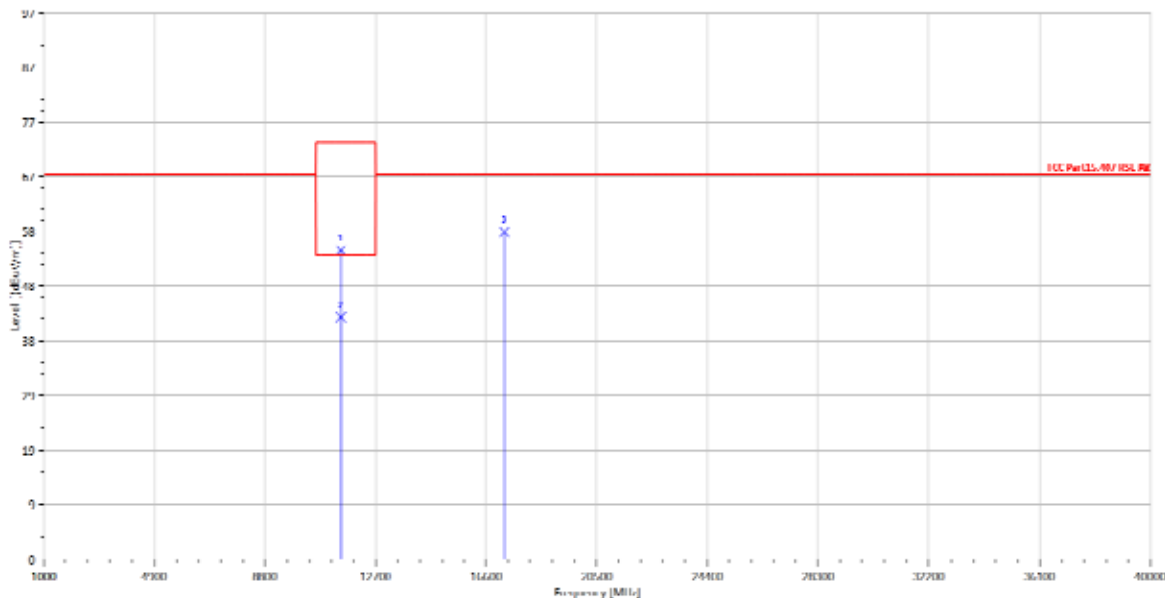
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	H	33.72	21.08	54.80	74.00	-19.20
11490.00	Average	H	21.90	21.08	42.98	54.00	-11.02
17235.00	Peak	H	29.99	28.06	58.04	68.30	-10.26

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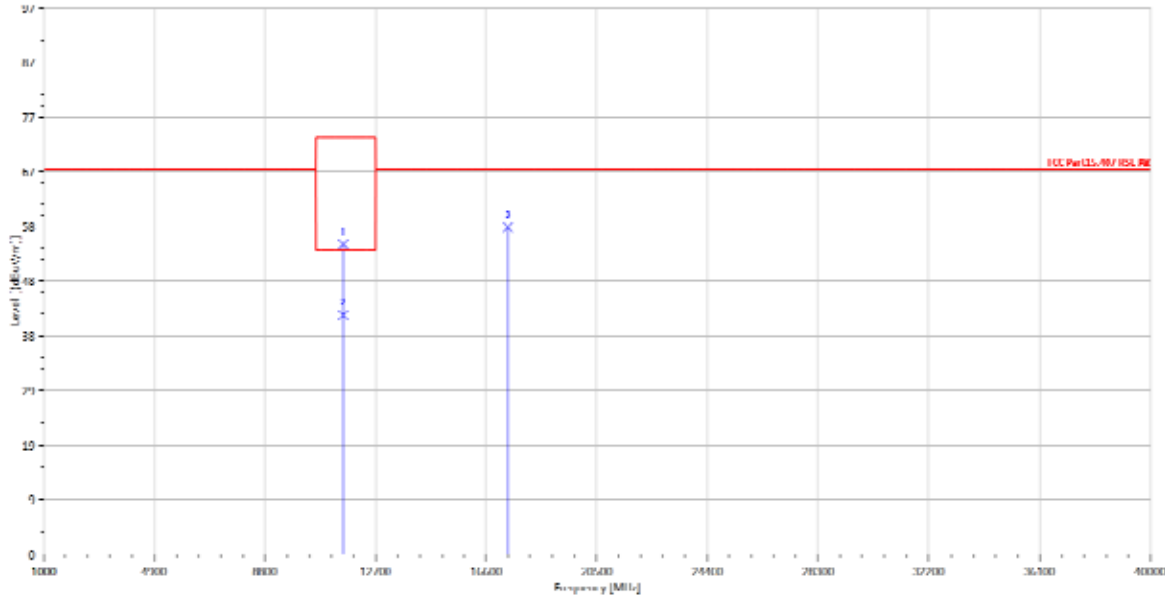
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Peak	H	33.84	21.14	54.98	74.00	-19.02
11570.00	Average	H	21.32	21.14	42.46	54.00	-11.54
17355.00	Peak	H	30.14	27.87	58.01	68.30	-10.29

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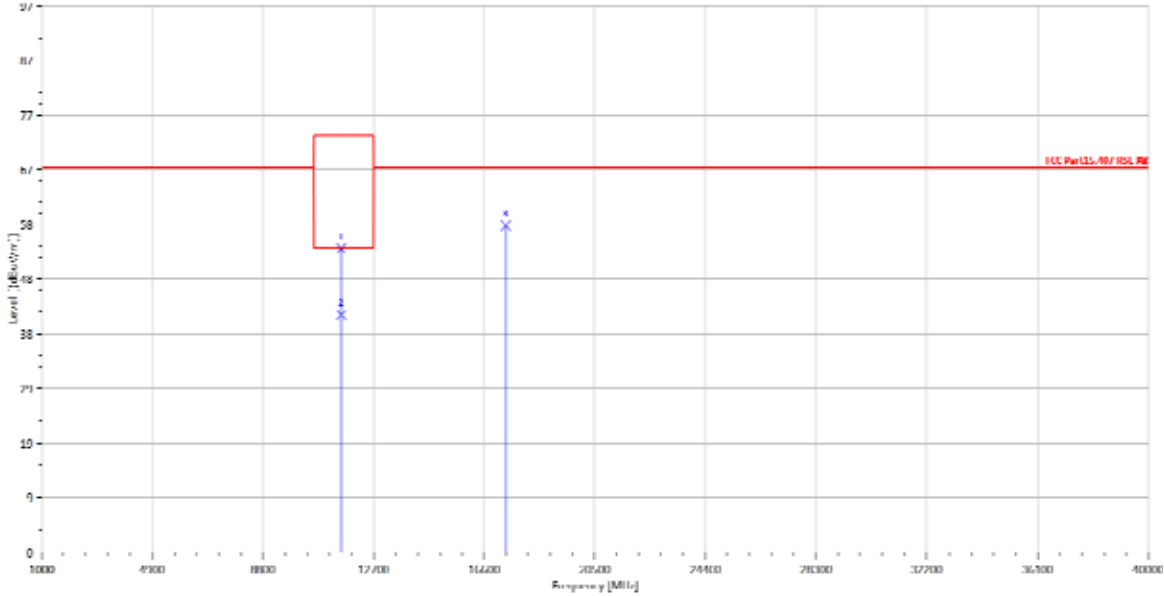
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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

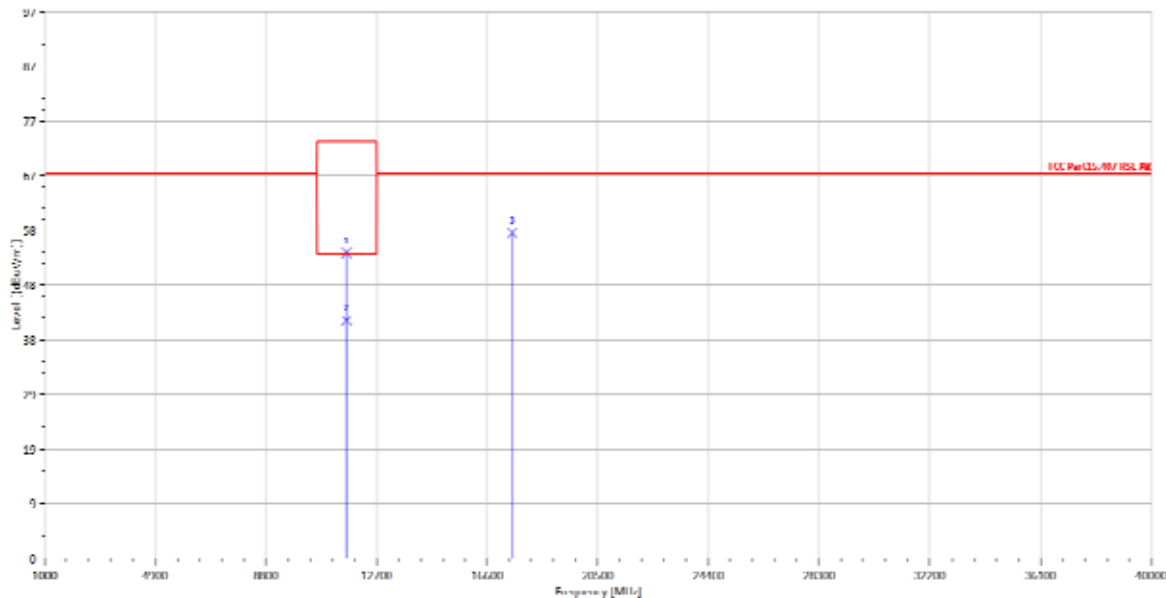


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Peak	H	32.76	21.14	53.90	74.00	-20.10
11570.00	Average	H	20.98	21.14	42.12	54.00	-11.88
17355.00	Peak	H	30.08	27.87	57.95	68.30	-10.35

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



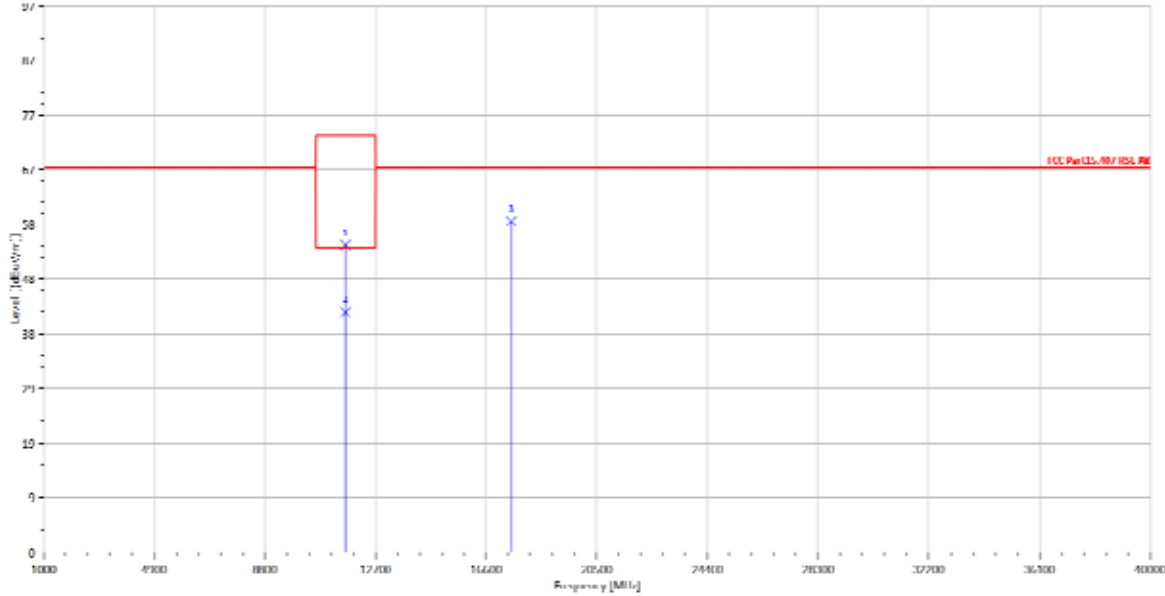
Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Peak	H	32.91	21.27	54.18	74.00	-19.82
11650.00	Average	H	20.93	21.27	42.20	54.00	-11.80
17475.00	Peak	H	30.07	27.65	57.72	68.30	-10.58

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Peak	H	33.22	21.27	54.49	74.00	-19.51
11650.00	Average	H	21.32	21.27	42.59	54.00	-11.41
17475.00	Peak	H	31.05	27.65	58.70	68.30	-9.60

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Band edge falling to restricted band

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	53.72	12.27	65.99	78.20	-12.21

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	59.16	12.27	71.43	78.20	-6.77

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Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	47.23	12.61	59.84	78.20	-18.36

Operation Band	:802.11 a	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	49.30	12.61	61.92	78.20	-16.28

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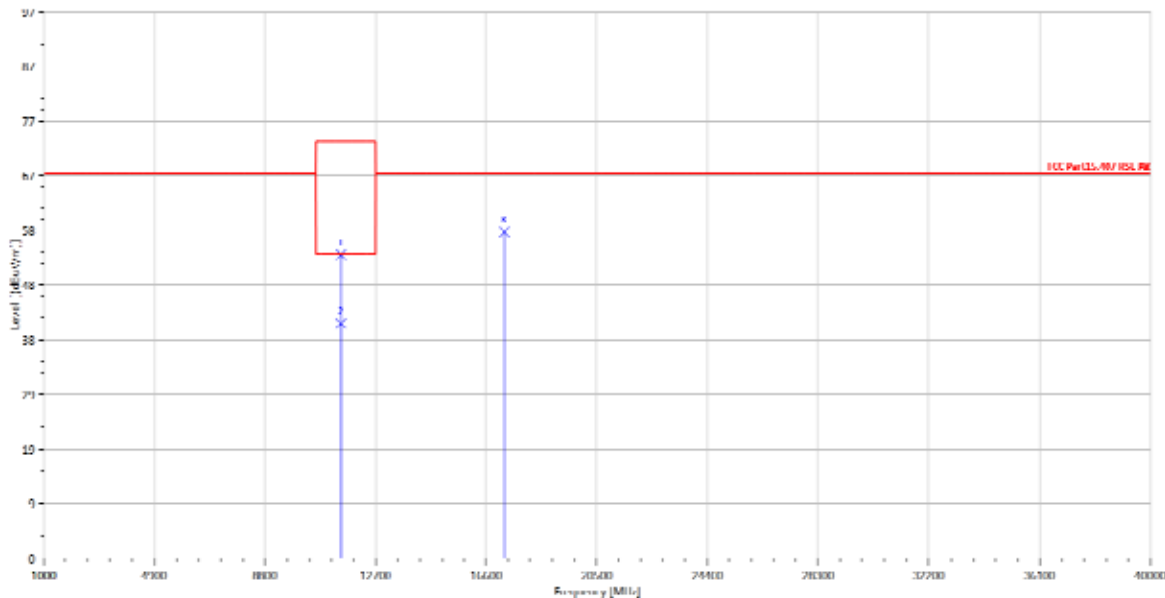
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Radiated Spurious Emission Measurement Result 802.11ac VHT20, 5725~5850 MHz

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	H	32.76	21.08	53.84	74.00	-20.16
11490.00	Average	H	20.54	21.08	41.62	54.00	-12.38
17235.00	Peak	H	29.81	28.06	57.86	68.30	-10.44

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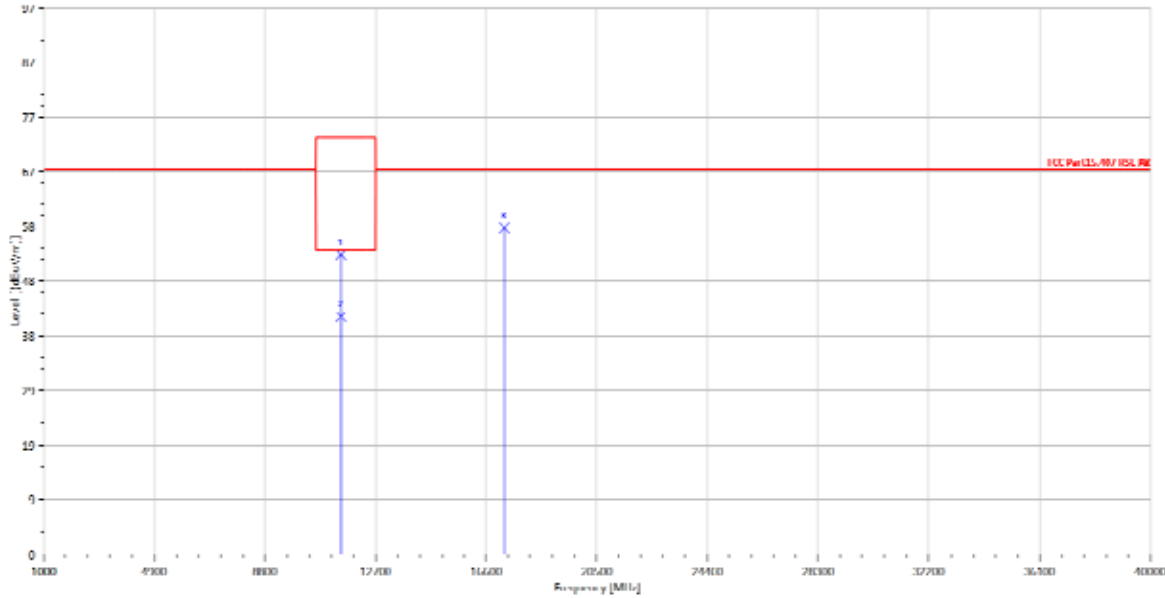
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.00	Peak	H	32.11	21.08	53.19	74.00	-20.81
11490.00	Average	H	21.10	21.08	42.18	54.00	-11.82
17235.00	Peak	H	29.84	28.06	57.90	68.30	-10.40

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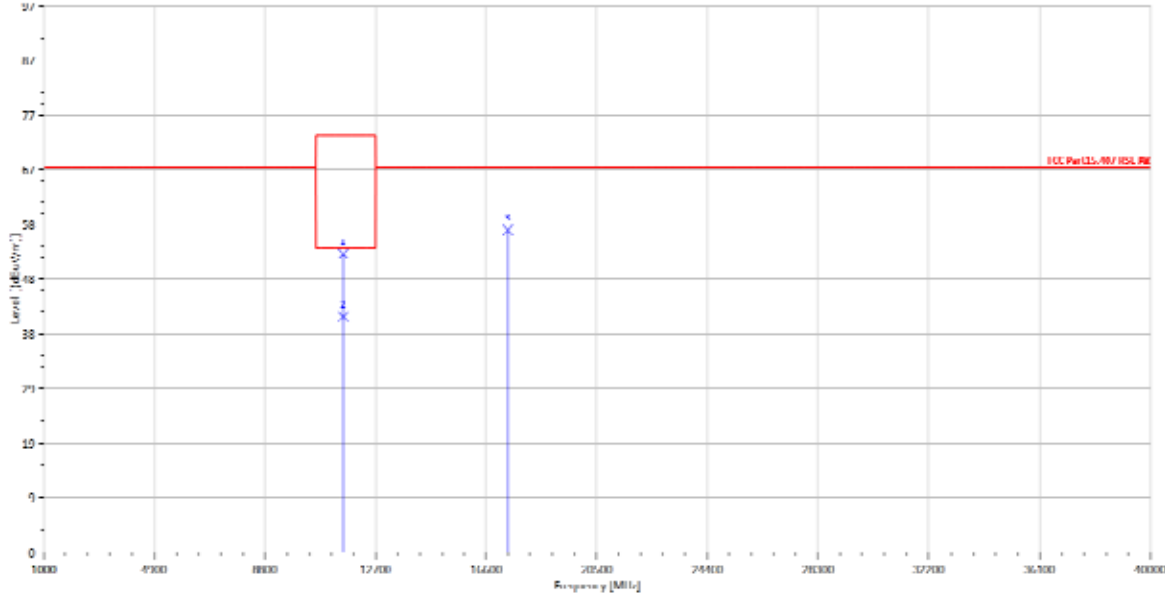
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



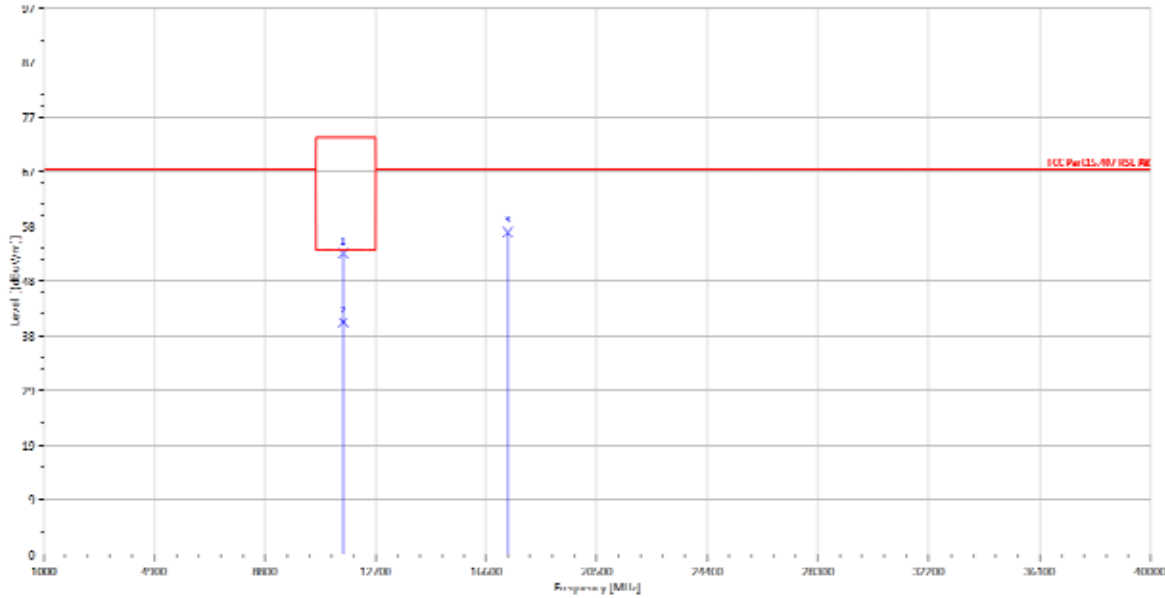
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Peak	H	31.80	21.14	52.93	74.00	-21.07
11570.00	Average	H	20.67	21.14	41.81	54.00	-12.19
17355.00	Peak	H	29.27	27.87	57.15	68.30	-11.15

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5785 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX MID	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

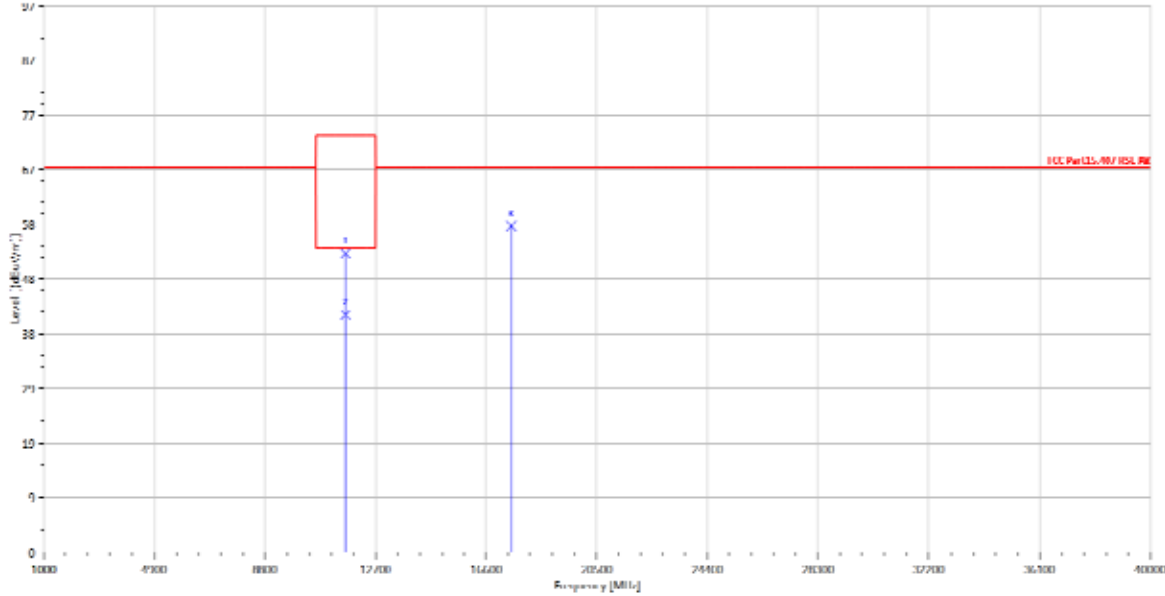


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.00	Peak	H	32.25	21.14	53.38	74.00	-20.62
11570.00	Average	H	20.02	21.14	41.16	54.00	-12.84
17355.00	Peak	H	29.23	27.87	57.10	68.30	-11.20

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Peak	H	31.77	21.27	53.04	74.00	-20.96
11650.00	Average	H	20.87	21.27	42.15	54.00	-11.85
17475.00	Peak	H	30.20	27.65	57.85	68.30	-10.45

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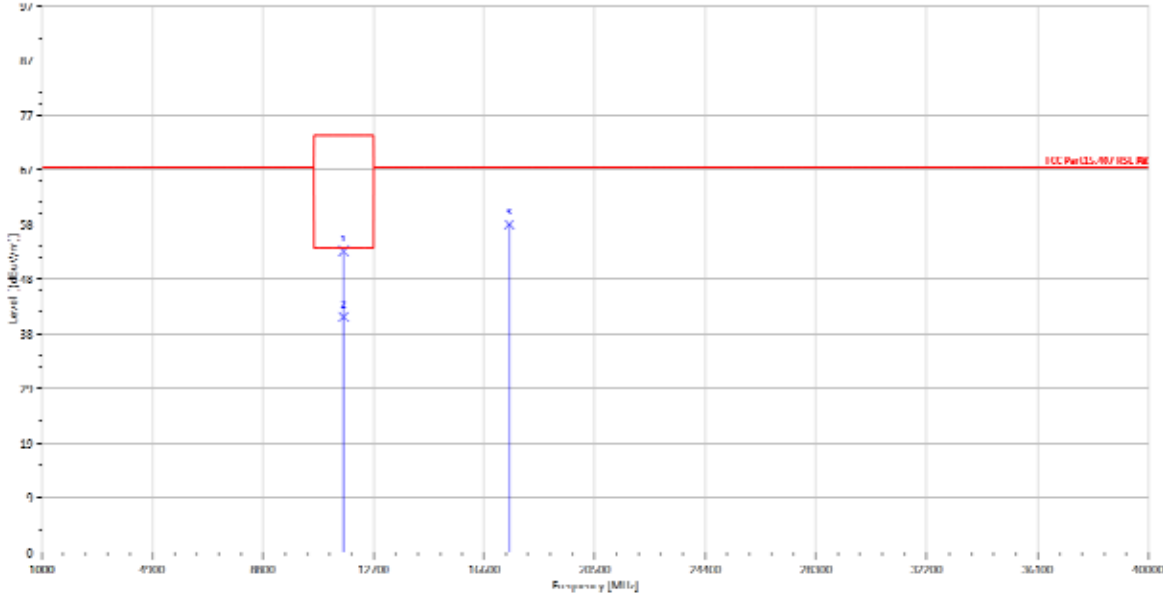
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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11650.00	Peak	H	32.15	21.27	53.42	74.00	-20.58
11650.00	Average	H	20.49	21.27	41.76	54.00	-12.24
17475.00	Peak	H	30.48	27.65	58.13	68.30	-10.17

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Band edge falling to restricted band

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	51.99	12.27	64.26	78.20	-13.94

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5745 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	63.57	12.27	75.84	78.20	-2.36

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Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	47.71	12.61	60.32	78.20	-17.88

Operation Band	:802.11 ac20M	Test Date	:2015-03-27
Fundamental Frequency	:5825 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	54.91	12.61	67.53	78.20	-10.67

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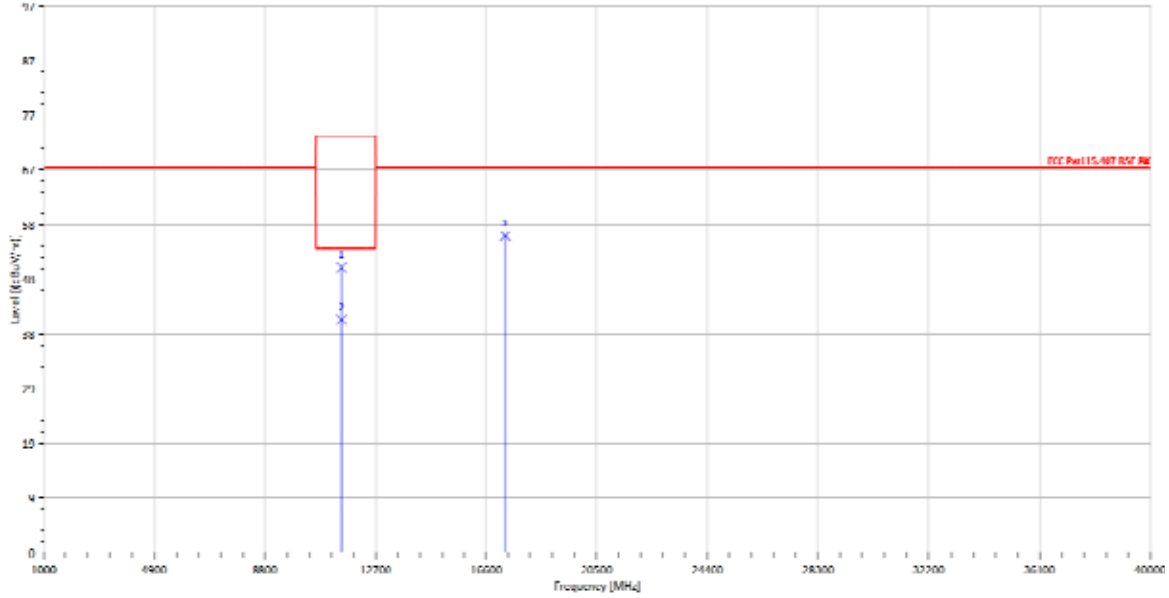
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Radiated Spurious Emission Measurement Result (802.11n (5GHz)_40M)

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5755 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



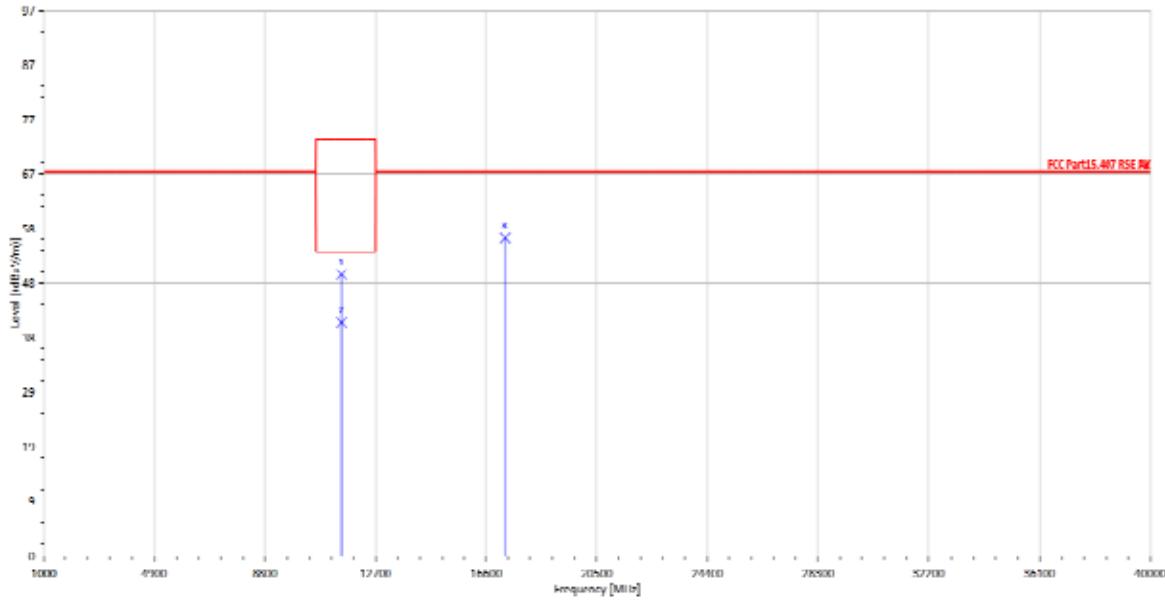
Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Peak	H	29.43	21.17	50.59	74.00	-23.41
11510.00	Average	H	20.12	21.17	41.29	54.00	-12.71
17265.00	Peak	H	28.44	27.82	56.27	68.30	-12.03

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5755 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

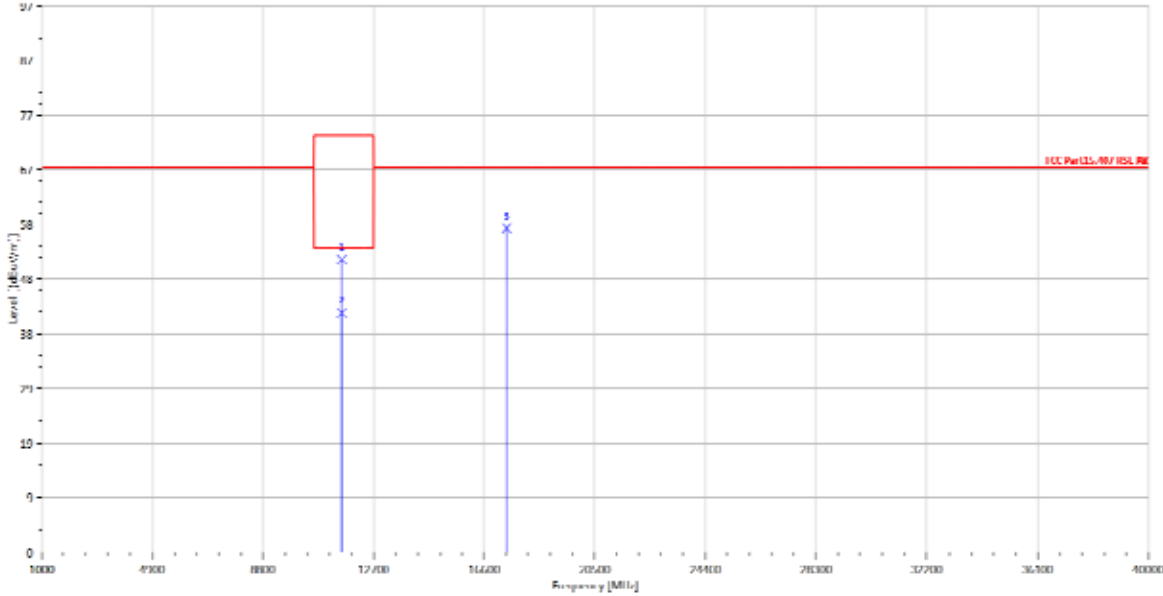


Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11510.00	Peak	H	28.80	21.17	49.97	74.00	-24.03
11510.00	Average	H	20.28	21.17	41.45	54.00	-12.55
17265.00	Peak	H	28.62	27.82	56.44	68.30	-11.86

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5795 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

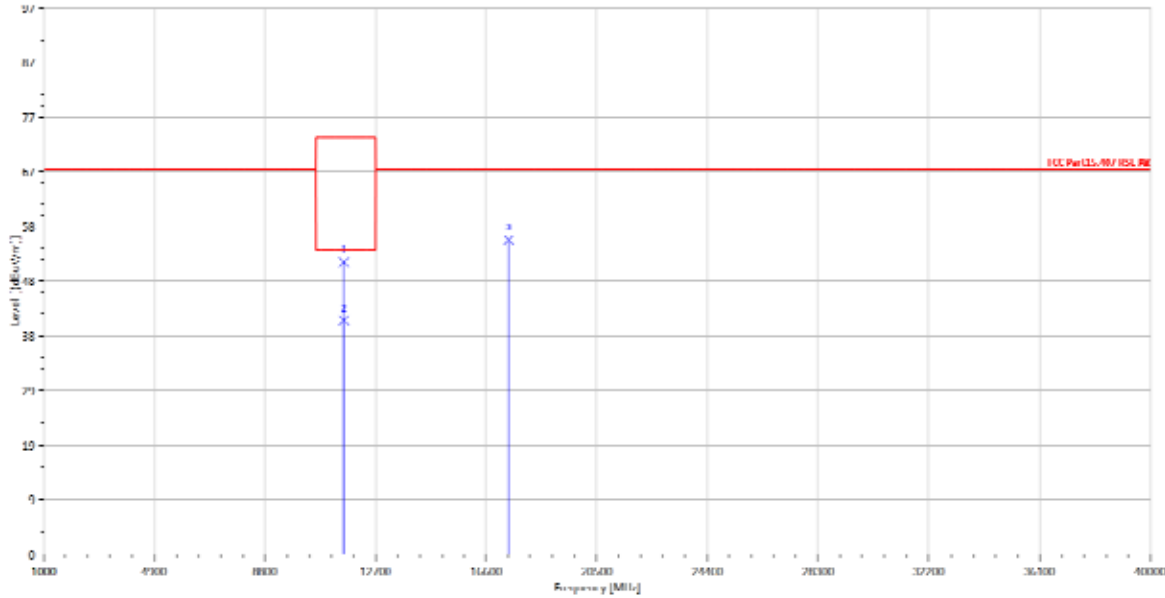


Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Peak	H	30.64	21.28	51.92	74.00	-22.08
11590.00	Average	H	21.20	21.28	42.48	54.00	-11.52
17385.00	Peak	H	29.88	27.61	57.49	68.30	-10.81

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5795 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11590.00	Peak	H	30.52	21.28	51.79	74.00	-22.21
11590.00	Average	H	20.20	21.28	41.48	54.00	-12.52
17385.00	Peak	S	28.17	27.61	55.78	68.30	-12.52

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Band edge falling to restricted band

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5755 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	48.05	12.27	60.32	78.20	-17.88

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5755 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	Peak	E	54.82	12.27	67.09	78.20	-11.11

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Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5795 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	46.81	12.61	59.42	78.20	-18.78

Operation Band	:802.11 ac40M	Test Date	:2015-03-27
Fundamental Frequency	:5795 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge HIGH	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	47.35	12.61	59.96	78.20	-18.24

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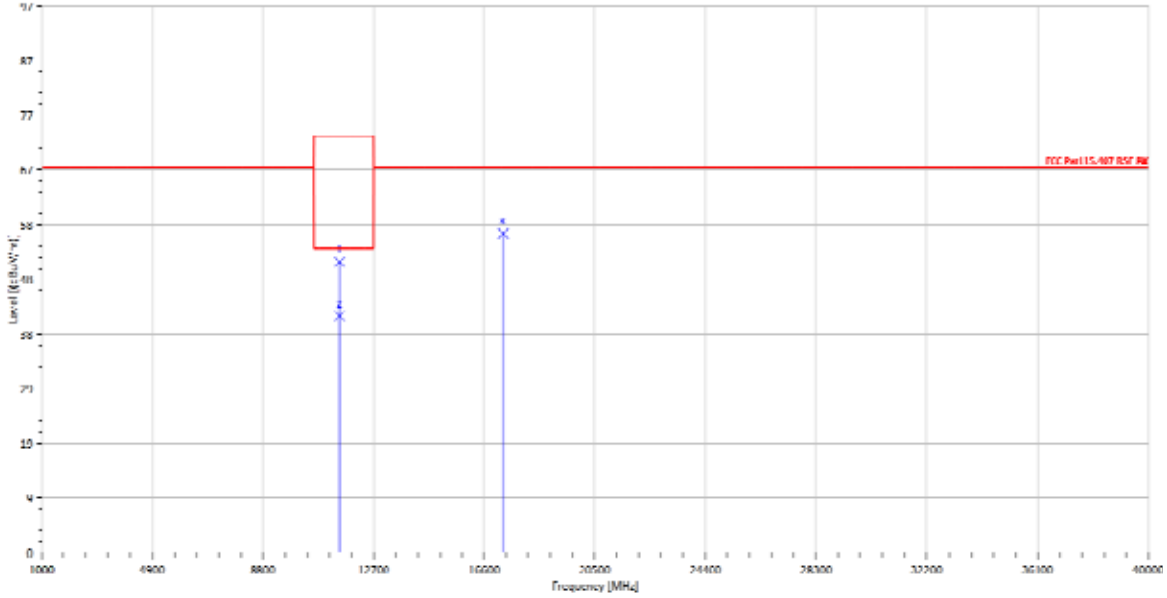
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Radiated Spurious Emission Measurement Result (802.11n (5GHz)_80M)

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11550.00	Peak	H	28.80	21.17	49.97	74.00	-24.03
11550.00	Average	H	20.19	21.17	41.36	54.00	-12.64
17325.00	Peak	H	28.48	27.82	56.30	68.30	-12.00

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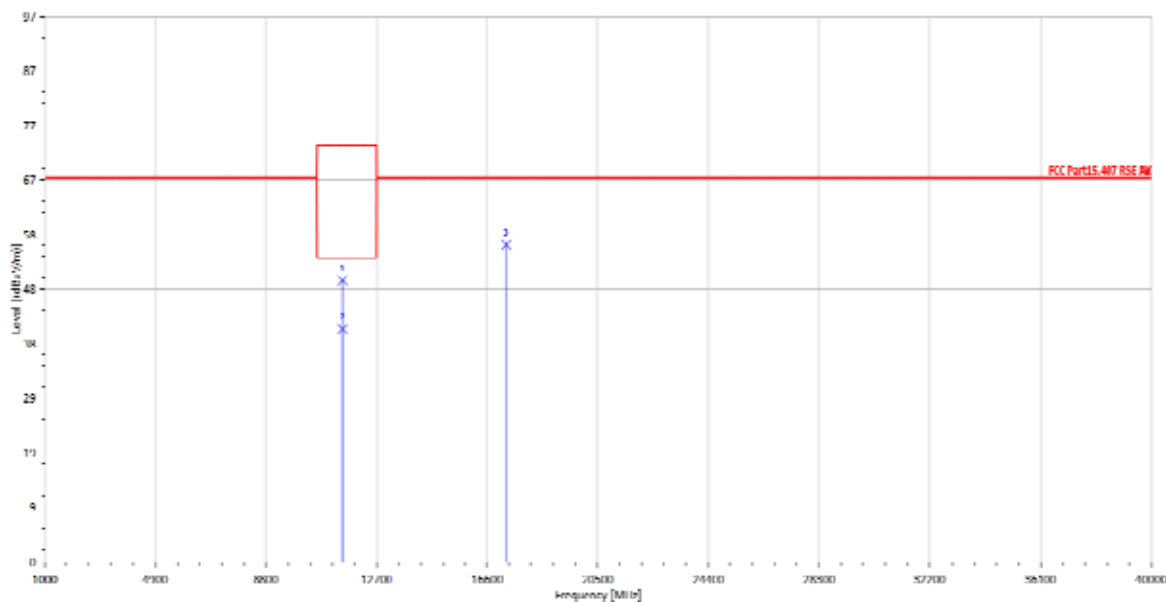
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Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:TX LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11550.00	Peak	H	28.80	21.17	49.97	74.00	-24.03
11550.00	Average	H	20.19	21.17	41.36	54.00	-12.64
17325.00	Peak	H	28.48	27.82	56.30	68.30	-12.00

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Band edge falling to restricted band

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	47.83	12.61	60.44	78.20	-17.76

Operation Band	:802.11 ac80M	Test Date	:2015-03-27
Fundamental Frequency	:5775 MHz	Temp./Humi.	:17.6deg_C / 75 RH
Operation Mode	:Band Edge LOW	Engineer	:Ashton
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	Peak	E	46.98	12.61	59.59	78.20	-18.61

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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

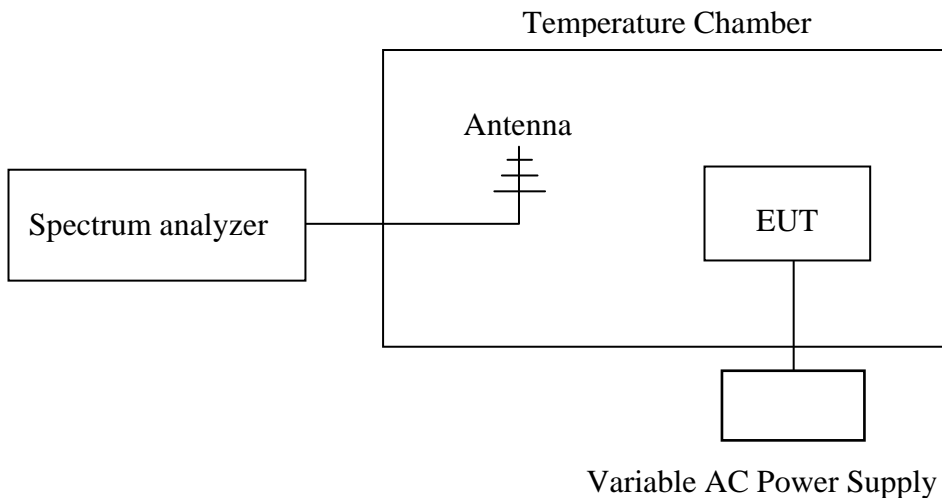
13.1 Standard Applicable

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



13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY53400256	10/15/2014	10/14/2015
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/18/2014	06/17/2015
DC Power Supply	Agilent	E3640A	MY53140006	05/31/2014	05/30/2015

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2015.3.18
Temperature	:17	Test By	Henry
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Frequency (MHz)
-10	4.2V	36	5180.0000	5,179.887400	0.1126
		44	5220.0000	5,219.891130	0.1089
		48	5240.0000	5,239.933020	0.0670
		52	5260.0000	5,259.949400	0.0506
		60	5300.0000	5,299.955100	0.0449
		64	5320.0000	5,319.917220	0.0828
		100	5500.0000	5,499.960820	0.0392
		116	5580.0000	5,579.908960	0.0910
		140	5700.0000	5,699.956910	0.0431
		149	5745.0000	5,744.940990	0.0590
		157	5785.0000	5,784.900750	0.0993
		165	5825.0000	5,824.914710	0.0853
	3.6V	36	5180.0000	5,179.819650	0.1803
		44	5220.0000	5,219.870460	0.1295
		48	5240.0000	5,239.878660	0.1213
		52	5260.0000	5,259.872490	0.1275
		60	5300.0000	5,299.907970	0.0920
		64	5320.0000	5,319.892440	0.1076
		100	5500.0000	5,499.903170	0.0968
		116	5580.0000	5,579.847390	0.1526
		140	5700.0000	5,699.926900	0.0731
		149	5745.0000	5,744.888720	0.1113
		157	5785.0000	5,784.833460	0.1665
		165	5825.0000	5,824.873780	0.1262

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25	3.8V	36	5180.0000	5,179.966500	0.0335
		44	5220.0000	5,219.965690	0.0343
		48	5240.0000	5,239.965410	0.0346
		52	5260.0000	5,259.965110	0.0349
		60	5300.0000	5,299.964840	0.0352
		64	5320.0000	5,319.964680	0.0353
		100	5500.0000	5,499.963500	0.0365
		116	5580.0000	5,579.962950	0.0370
		140	5700.0000	5,699.962100	0.0379
		149	5745.0000	5,744.961820	0.0382
		157	5785.0000	5,784.961530	0.0385
		165	5825.0000	5,824.961240	0.0388
		55	4.2V	36	5180.0000
44	5220.0000			5,219.888120	0.1119
48	5240.0000			5,239.904910	0.0951
52	5260.0000			5,259.931480	0.0685
60	5300.0000			5,299.953700	0.0463
64	5320.0000			5,319.952050	0.0480
100	5500.0000			5,499.885940	0.1141
116	5580.0000			5,579.912330	0.0877
140	5700.0000			5,699.946250	0.0538
149	5745.0000			5,744.923320	0.0767
157	5785.0000			5,784.931710	0.0683
165	5825.0000			5,824.960120	0.0399
3.6V	36		5180.0000	5,179.905320	0.0947
	44		5220.0000	5,219.824000	0.1760
	48		5240.0000	5,239.839450	0.1605
	52		5260.0000	5,259.898280	0.1017
	60		5300.0000	5,299.919070	0.0809
	64		5320.0000	5,319.890390	0.1096
	100		5500.0000	5,499.836310	0.1637
	116		5580.0000	5,579.908910	0.0911
	140		5700.0000	5,699.893930	0.1061
	149		5745.0000	5,744.848730	0.1513
	157		5785.0000	5,784.857670	0.1423
	165		5825.0000	5,824.922790	0.0772

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Operation Mode	802.11 ac_VHT40	Test Date	2015.3.18
Temperature	:17	Test By	Henry
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Frequency (MHz)
-10	4.2V	38	5190.0000	5,189.925970	0.0740
		46	5230.0000	5,229.938820	0.0612
		54	5270.0000	5,269.917250	0.0827
		62	5310.0000	5,309.928310	0.0717
		102	5510.0000	5,509.956850	0.0432
		110	5550.0000	5,549.938580	0.0614
		134	5670.0000	5,669.956440	0.0436
		151	5755.0000	5,754.914690	0.0853
		159	5795.0000	5,794.895850	0.1042
	3.6V	38	5190.0000	5,189.857720	0.1423
		46	5230.0000	5,229.937300	0.0627
		54	5270.0000	5,269.856910	0.1431
		62	5310.0000	5,309.859650	0.1403
		102	5510.0000	5,509.947670	0.0523
		110	5550.0000	5,549.878620	0.1214
		134	5670.0000	5,669.943280	0.0567
		151	5755.0000	5,754.849130	0.1509
		159	5795.0000	5,794.842850	0.1572
25	3.8V	38	5190.0000	5,189.965470	0.0345
		46	5230.0000	5,229.965230	0.0348
		54	5270.0000	5,269.964880	0.0351
		62	5310.0000	5,309.964600	0.0354
		102	5510.0000	5,509.963350	0.0367
		110	5550.0000	5,549.963050	0.0369
		134	5670.0000	5,669.962180	0.0378
		151	5755.0000	5,754.961670	0.0383
		159	5795.0000	5,794.961390	0.0386

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55	4.2V	38	5190.0000	5,189.906090	0.0939
		46	5230.0000	5,229.896840	0.1032
		54	5270.0000	5,269.888810	0.1112
		62	5310.0000	5,309.941730	0.0583
		102	5510.0000	5,509.941320	0.0587
		110	5550.0000	5,549.914010	0.0860
		134	5670.0000	5,669.933090	0.0669
		151	5755.0000	5,754.925310	0.0747
		159	5795.0000	5,794.935260	0.0647
	3.6V	38	5190.0000	5,189.885530	0.1145
		46	5230.0000	5,229.864850	0.1352
		54	5270.0000	5,269.843510	0.1565
		62	5310.0000	5,309.884850	0.1151
		102	5510.0000	5,509.890990	0.1090
		110	5550.0000	5,549.860870	0.1391
		134	5670.0000	5,669.922170	0.0778
		151	5755.0000	5,754.866600	0.1334
		159	5795.0000	5,794.882750	0.1173

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Operation Mode	802.11 ac_VHT80	Test Date	2015.3.18
Temperature	:17	Test By	Henry
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Frequency (MHz)
-10	4.2V	42	5210.0000	5,209.899550	0.1004
		58	5290.0000	5,289.923520	0.0765
		106	5530.0000	5,529.905150	0.0949
		122	5610.0000	5,609.883880	0.1161
		138	5690.0000	5,689.957270	0.0427
		155	5775.0000	5,774.920650	0.0793
	3.6V	42	5210.0000	5,209.882710	0.1173
		58	5290.0000	5,289.918090	0.0819
		106	5530.0000	5,529.876940	0.1231
		122	5610.0000	5,609.807610	0.1924
		138	5690.0000	5,689.929540	0.0705
		155	5775.0000	5,774.891770	0.1082
25	3.8V	42	5210.0000	5,209.965350	0.0346
		58	5290.0000	5,289.964740	0.0353
		106	5530.0000	5,529.963230	0.0368
		122	5610.0000	5,609.962730	0.0373
		138	5690.0000	5,689.962030	0.0380
		155	5775.0000	5,774.961520	0.0385
55	4.2V	42	5210.0000	5,209.954500	0.0455
		58	5290.0000	5,289.893000	0.1070
		106	5530.0000	5,529.889120	0.1109
		122	5610.0000	5,609.960220	0.0398
		138	5690.0000	5,689.954370	0.0456
		155	5775.0000	5,774.884220	0.1158
	3.6V	42	5210.0000	5,209.944150	0.0558
		58	5290.0000	5,289.866440	0.1336
		106	5530.0000	5,529.876410	0.1236
		122	5610.0000	5,609.907260	0.0927
		138	5690.0000	5,689.878920	0.1211
		155	5775.0000	5,774.848120	0.1519

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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

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector 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 power limit.

~ End of Report ~

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