

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** Dual-Band 2x2 802.11ac and BT4.1 Combo Module

**Brand Name:** Foxconn

**Model No.:** WBUA31

**Model Difference:** N/A

**FCC ID:** RX3-WBUA31

**IC:** 2878F-WBUA31

**Report No.:** ER/2016/80013

**Issue Date:** Aug. 19, 2016

**FCC Rule Part:** §15.407

**IC Rule Part:** RSS-247 issue 1 May 2015

**Prepared for:** Hon Hai Precision Industry Co., Ltd.  
No.151, Sec. 1, Nankan Rd., Lujhu Township, Taoyuan County, 33859, Taiwan (R.O.C)

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803



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## VERIFICATION OF COMPLIANCE

**Applicant:** Hon Hai Precision Industry Co., Ltd.  
No.151, Sec. 1, Nankan Rd., Lujhu Township, Taoyuan County,  
33859, Taiwan (R.O.C)

**Product Name:** Dual-Band 2x2 802.11ac and BT4.1 Combo Module

**Brand Name:** Foxconn

**Model No.:** WBUA31

**Model Difference:** N/A

**FCC ID:** RX3-WBUA31

**IC:** 2878F-WBUA31

**File Number:** ER/2016/80013

**Date of test:** Aug. 02, 2016 ~ Aug. 19, 2016

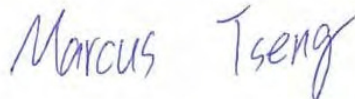
**Date of EUT Received:** Aug. 02, 2016

### We hereby certify that:

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

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

**Test By:**

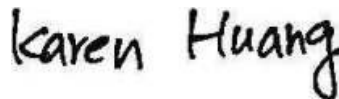


**Date:**

Aug. 19, 2016

**Marcus Tseng / Engineer**

**Prepared By:**

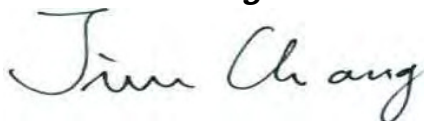


**Date:**

Aug. 19, 2016

**Karen Huang / Clerk**

**Approved By:**



**Date:**

Aug. 19, 2016

**Jim Chang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2016/80013	Rev.00	Initial creation of document	Aug. 19, 2016

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	Dual-Band 2x2 802.11ac and BT4.1 Combo Module
Brand Name:	Foxconn
Model No.:	WBUA31
Model Difference:	N/A
Product SW/HW version:	N/A / DVT
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3Vdc from Test Kit

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.) / (EIRP)	Modulation Technology
11a	5150~5250	4	13.98 dBm (Avg.) / 19.33 dBm (EIRP)	OFDM
	5250~5350	4	13.78 dBm	
	5470~5725	12	13.71 dBm	
	5725-5850	5	13.98 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 12.96 dBm (Avg.) / 21.32 dBm (EIRP) (Worst Case)	OFDM
	HT20 / VHT20 5250~5350	4	HT: 12.97 dBm (Worst Case)	
	HT20 / VHT20 5470~5725	12	HT: 12.97 dBm (Worst Case)	
	HT20 / VHT20 5725-5850	5	HT: 12.79 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 11.63 dBm (Avg.) / 19.99 dBm (EIRP) (Worst Case)	OFDM
	HT40 / VHT40 5250~5350	2	HT: 11.92 dBm (Worst Case)	
	HT40 / VHT40 5470~5725	6	HT: 11.98 dBm (Worst Case)	
	HT40 / VHT40 5725-5850	2	HT: 11.81 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	8.80 dBm (Avg.) / 17.16 dBm (EIRP)	OFDM
	VHT80 5250~5350	1	8.80 dBm	
	VHT80 5470~5725	3	8.89 dBm	
	VHT80 5725-5850	1	8.78 dBm	

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<p>Antenna Designation</p>	<p>PIFA Antenna Main: Part No.: W-M-D-B-N-0-0560(65"), Supplier: Foxconn 5GHz Gain: 4.12dBi (5150MHz-5250MHz) 5GHz Gain: 4.12dBi (5250MHz-5350MHz) 5GHz Gain: 4.05dBi (5470MHz-5725MHz) 5GHz Gain: 4.57dBi (5725MHz-5850MHz)</p> <p>Part No.: W-M-D-B-N-0-0560(70"), Supplier: Foxconn 5GHz Gain: 2.03dBi (5150MHz-5250MHz) 5GHz Gain: 2.03dBi (5250MHz-5350MHz) 5GHz Gain: 2.42dBi (5470MHz-5725MHz) 5GHz Gain: 2.93dBi (5725MHz-5850MHz)</p> <p>Aux: Part No.: W-M-S-D-N-2-1940(65"), Supplier: Foxconn 5GHz Gain: 5.35dBi (5150MHz-5250MHz) 5GHz Gain: 5.35dBi (5250MHz-5350MHz) 5GHz Gain: 2.91dBi (5470MHz-5725MHz) 5GHz Gain: 4.41dBi (5725MHz-5850MHz)</p> <p>Part No.: W-M-S-D-N-2-2100(70"), Supplier: Foxconn 5GHz Gain: 2.74dBi (5150MHz-5250MHz) 5GHz Gain: 2.74dBi (5250MHz-5350MHz) 5GHz Gain: 1.83dBi (5470MHz-5725MHz) 5GHz Gain: 2.62dBi (5725MHz-5850MHz)</p>
<p>Modulation type</p>	<p>64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only</p>
<p>Transition Rate:</p>	<p>802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps</p>

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## 1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	Dual-Band 2x2 802.11ac and BT4.1 Combo Module
Brand Name:	Foxconn
Model No.:	WBUA31
Model Difference:	N/A
FCC ID:	RX3-WBUA31
IC:	2878F-WBUA31
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi Specification	802.11a/b/g/n/ac

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

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### 1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac

RSS-247 issue 1 May 2015

RSS-Gen issue4 Nov. 2014

ANSI C63.10:2013

Note:

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

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 509634

Canada Registration Number: 4620A-4

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

### For all conducted test items:

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

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 0.9dB, and 10dB attenuator.

#### SISO mode offset:

= RF cable loss (dB)+ attenuation factor(dB)=10.9(dB)

#### MIMO mode offset

= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(NANT) dB =13.9(dB)

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## 2.5 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

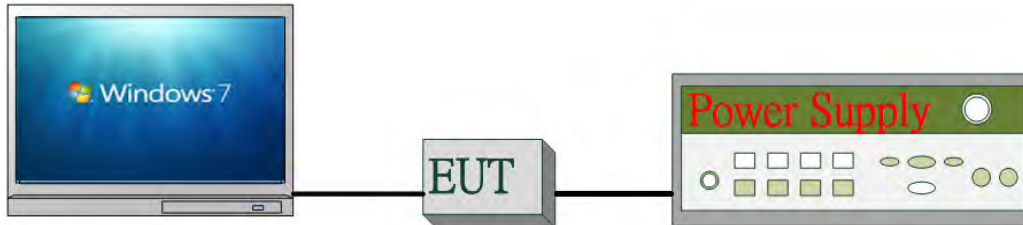


Table 2-1 Equipment Used in Tested System

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	E3640A	MY53140006	N/A	Unshielded
3.	Notebook	Lenovo	L420	LR-7HXZA	Shielded	Unshielded
4.	Test Kit	N/A	N/A	N/A	N/A	N/A

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### 3. SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.403(i) §15.407(e)	RSS-247 §6.2.1~ 4 (1) RSS-Gen §6.6	26 dB & 6dB & 99% Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.407(g)	RSS-Gen §6.11	Frequency Stability	Compliant
§15.203 §15.407(a)	RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

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## 4. DESCRIPTION OF TEST MODES

### 4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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

2 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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

5 channels are provided for 802.11n\_HT40, 802.11ac\_VHT40

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

3 channels are provided for 802.11ac\_VHT80

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

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n\_HT20, 802.11ac\_VHT20

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	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6	MAIN
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO

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

**Note:**

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

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

Pre-scanned was done on antenna set W-M-D-B-N-0-0560 & W-M-S-D-N-2-1940 (65"), and antenna set W-M-D-B-N-0-0560 & W-M-S-D-N-2-2100 (70"). The W-M-D-B-N-0-0560 & W-M-S-D-N-2-1940 (65") results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna W-M-D-B-N-0-0560 & W-M-S-D-N-2-1940 (65") to presented on this test report.

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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
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS8	MIMO
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS8	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS8	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS8	MIMO

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## 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 : <b>Vertical</b> )	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	9kHz – 30MHz: +/- 2.87 dB
	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					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017
LISN	SCHWARZ BECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250-25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2015	11/25/2016

### 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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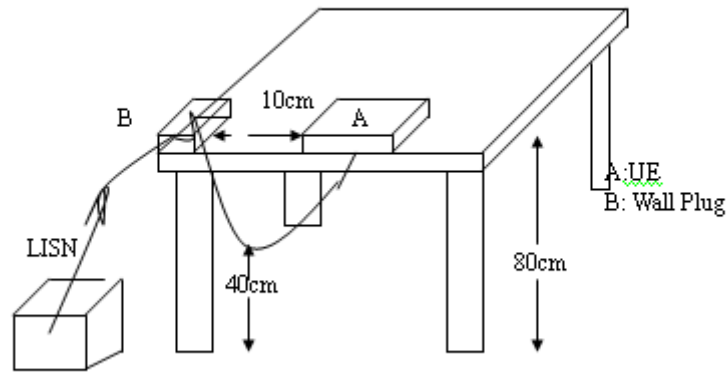
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## 6.4. Test SET-UP



## 6.5. Measurement Procedure

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

## 6.6. Measurement Result

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

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

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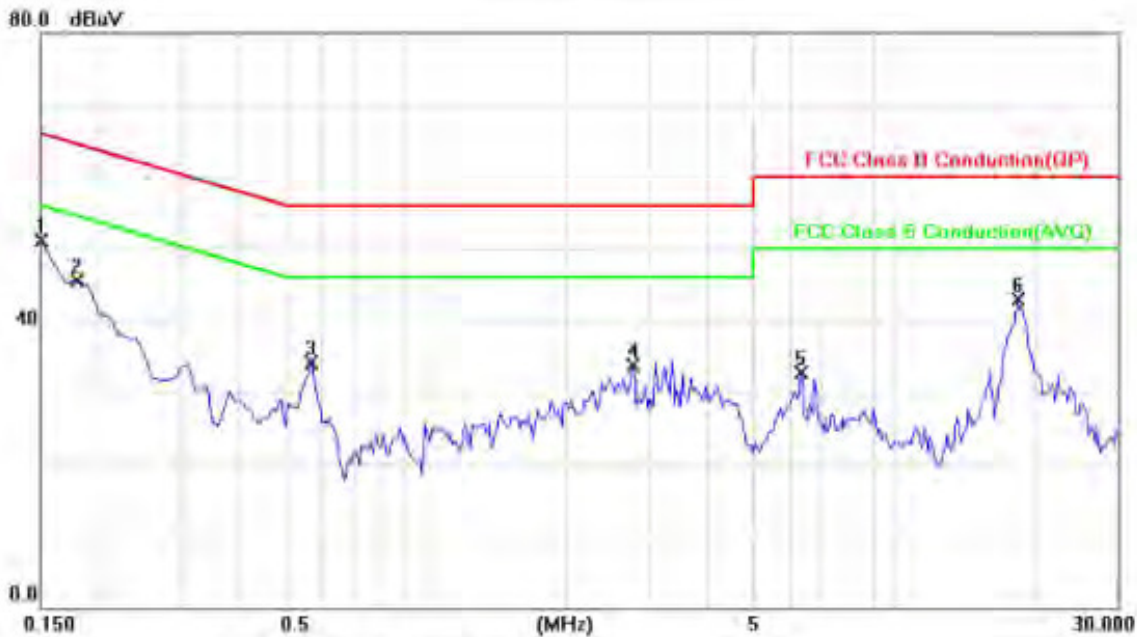
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode: operation mode	Test Date: Marcus Tseng
--------------------------------	-------------------------

Site: ConductionRoom	Phase: L1	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
Mode: Operationmode		
Note:		

### Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	51.04	0.16	51.20	66.00	-14.80	peak	
2		0.1800	45.39	0.16	45.55	64.49	-18.94	peak	
3		0.5700	33.88	0.17	34.05	56.00	-21.95	peak	
4		2.7700	33.54	0.23	33.77	56.00	-22.23	peak	
5		6.3400	32.40	0.30	32.70	60.00	-27.30	peak	
6		18.3600	42.58	0.42	43.00	60.00	-17.00	peak	

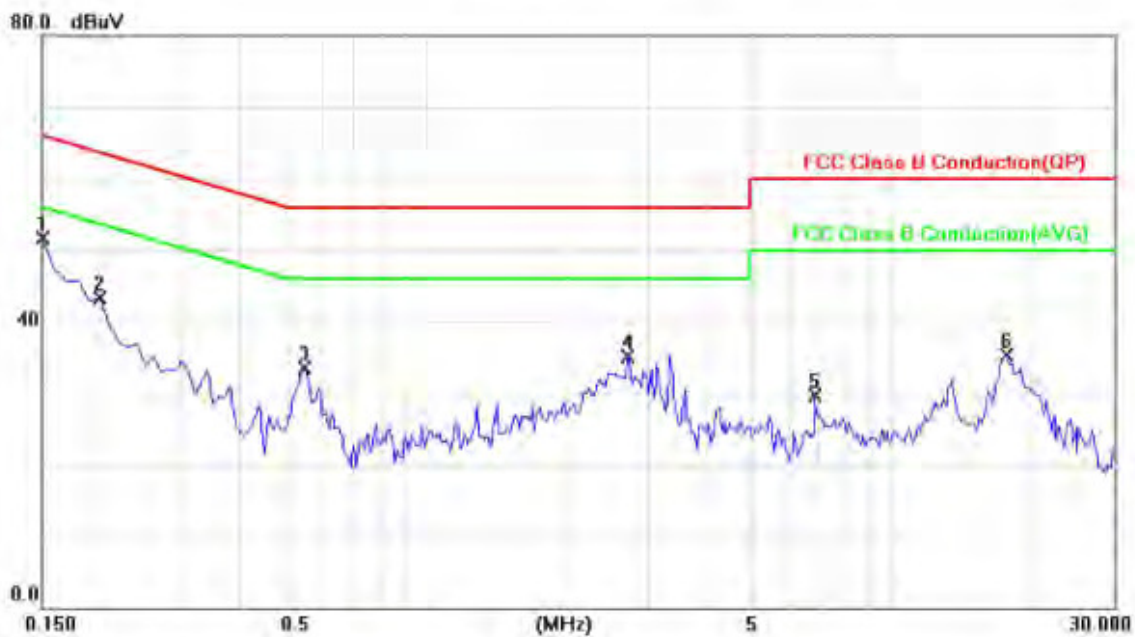
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Site: ConductionRoom	Phase: <b>N</b>	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
Mode: Operationmode		
Note:		

### Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	51.58	0.18	51.76	66.00	-14.24	peak	
2		0.2000	43.19	0.19	43.38	63.61	-20.23	peak	
3		0.5500	33.39	0.21	33.80	56.00	-22.40	peak	
4		2.7200	34.87	0.27	35.14	56.00	-20.86	peak	
5		6.8600	29.43	0.36	29.79	60.00	-30.21	peak	
6		17.6400	34.82	0.53	35.35	60.00	-24.65	peak	

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## 7. DUTY CYCLE TEST SIGNAL

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

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

### Formula:

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

### Measurement Procedure:

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

### Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log ( 1/Duty Cycle)
802.11a	95.20	0.21
802.11n_20	94.90	0.23
802.11ac_20	94.87	0.23
802.11n_40	90.44	0.44
802.11ac_40	87.44	0.58
802.11ac_80	82.93	0.81

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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### 802.11ac VHT20



### 802.11 n HT 40



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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.
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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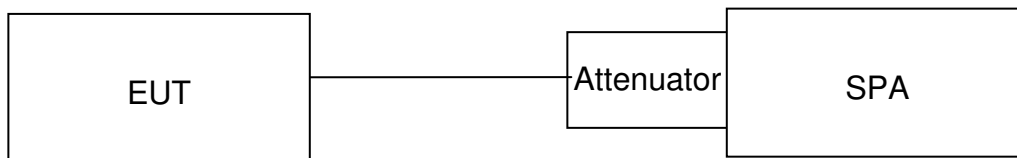
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### 8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

### 8.4 Test Set-up



### 8.5 Measurement Result 26dB Bandwidth

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802.11a\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	26.73	14.271
5220	22.83	13.585
5240	23.24	13.662
5260	22.62	13.545
5300	19.58	12.917
5320	20.01	13.012
5500	19.25	12.845
5580	19.44	12.887
5700	19.00	12.787

802.11n\_HT20\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	19.88	12.985
5220	19.93	12.994
5240	19.73	12.950
5260	19.67	12.939
5300	19.80	12.966
5320	19.89	12.986
5500	21.08	13.239
5580	20.26	13.067
5700	20.17	13.047

802.11n\_HT20\_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	20.15	13.043
5220	19.93	12.994
5240	20.70	13.159
5260	20.26	13.066
5300	19.63	12.930
5320	19.70	12.946
5500	19.89	12.986
5580	19.73	12.952
5700	19.73	12.951

802.11n\_HT40\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.82	16.109
5230	43.03	16.338
5270	40.39	16.062
5310	44.72	16.505
5510	41.33	16.163
5550	<b>40.48</b>	16.073
5670	41.72	16.204

802.11n\_HT40\_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	41.00	16.127
5230	40.72	16.098
5270	39.96	16.016
5310	41.41	16.171
5510	41.27	16.156
5550	40.04	16.025
5670	42.22	16.256

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802.11ac\_VHT80\_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.88	19.184
5290	80.97	19.083
5530	83.14	19.198
5610	81.68	19.121

802.11ac\_VHT80\_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	83.19	19.201
5290	85.39	19.314
5530	80.80	19.074
5610	83.04	19.193

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99% Bandwidth

802.11a\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.443	12.160
5220	16.408	12.151
5240	16.385	12.144
5260	16.410	12.151
5300	16.365	12.139
5320	16.351	12.135
5500	16.289	12.119
5580	16.311	12.125
5700	16.304	12.123

802.11n\_HT20\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.434	12.414
5220	17.434	12.414
5240	17.432	12.413
5260	17.428	12.412
5300	17.463	12.421
5320	17.405	12.407
5500	17.398	12.405
5580	17.391	12.403
5700	17.363	12.396

802.11n\_HT20\_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.432	12.413
5220	17.430	12.413
5240	17.448	12.417
5260	17.414	12.409
5300	17.400	12.405
5320	17.404	12.406
5500	17.395	12.404
5580	17.394	12.404
5700	17.430	12.413

802.11n\_HT40\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.855	15.545
5230	35.845	15.544
5270	35.873	15.548
5310	35.849	15.545
5510	35.308	15.479
5550	35.871	15.547
5670	35.877	15.548

802.11n\_HT40\_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	35.853	15.545
5230	35.851	15.545
5270	35.816	15.541
5310	35.895	15.550
5510	35.833	15.543
5550	35.858	15.546
5670	35.796	15.538

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802.11ac\_VHT80\_Main

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	74.941	18.747
5290	74.990	18.750
5530	75.017	18.752
5610	74.939	18.747

802.11ac\_VHT80\_Aux1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.033	18.753
5290	75.021	18.752
5530	74.934	18.747
5610	74.930	18.747

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802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.06	11.779
5785	14.41	11.586
5825	15.31	11.849

802.11n\_HT20\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.10	11.791
5785	15.14	11.800
5825	15.15	11.803

802.11n\_HT20\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.15	11.804
5785	15.17	11.810
5825	15.12	11.796

802.11n\_HT40\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.10	15.453
5795	35.10	15.453

802.11n\_HT40\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.10	15.453
5795	35.11	15.455

802.11ac\_VHT80\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.04	18.753

802.11ac\_VHT80\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.13	18.758

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802.11a\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.22	11.824
5785	15.25	11.833
5825	14.55	11.629

802.11n\_HT20\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.17	12.087
5785	16.68	12.222
5825	17.13	12.338

802.11n\_HT20\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.82	11.992
5785	15.34	11.858
5825	14.92	11.738

802.11n\_HT40\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.70	15.276
5795	33.38	15.235

802.11n\_HT40\_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	34.68	15.401
5795	33.02	15.188

802.11ac\_VHT80\_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	70.54	18.484

802.11ac\_VHT80\_Aux1

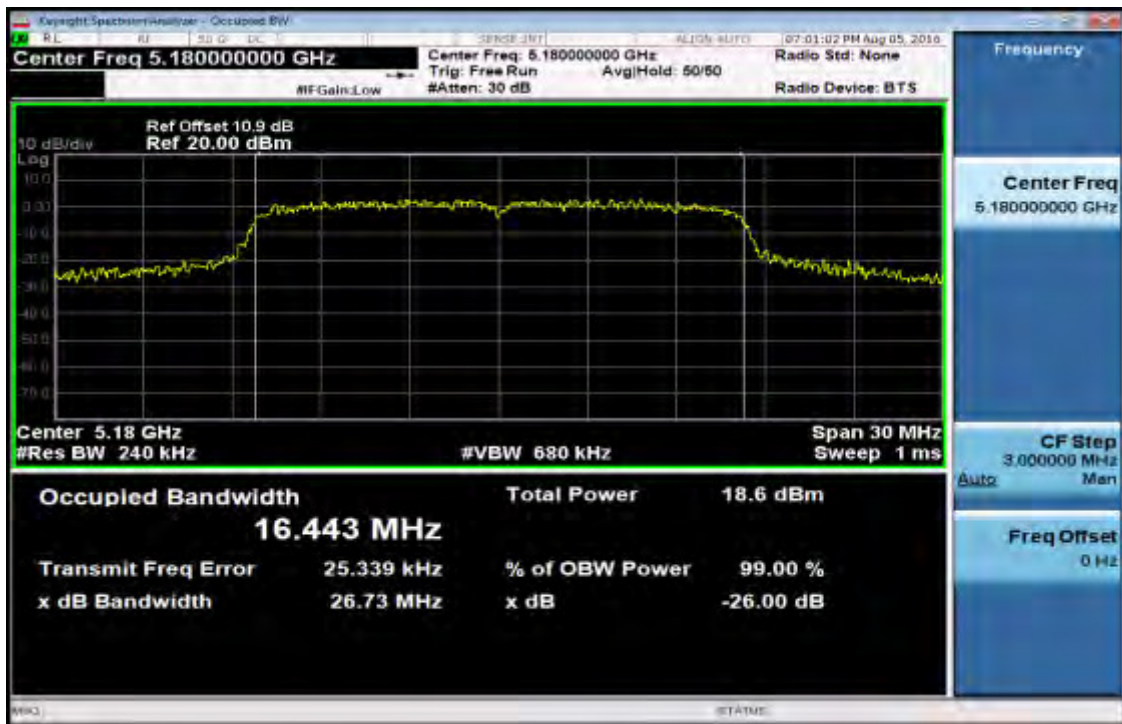
Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	73.11	18.640

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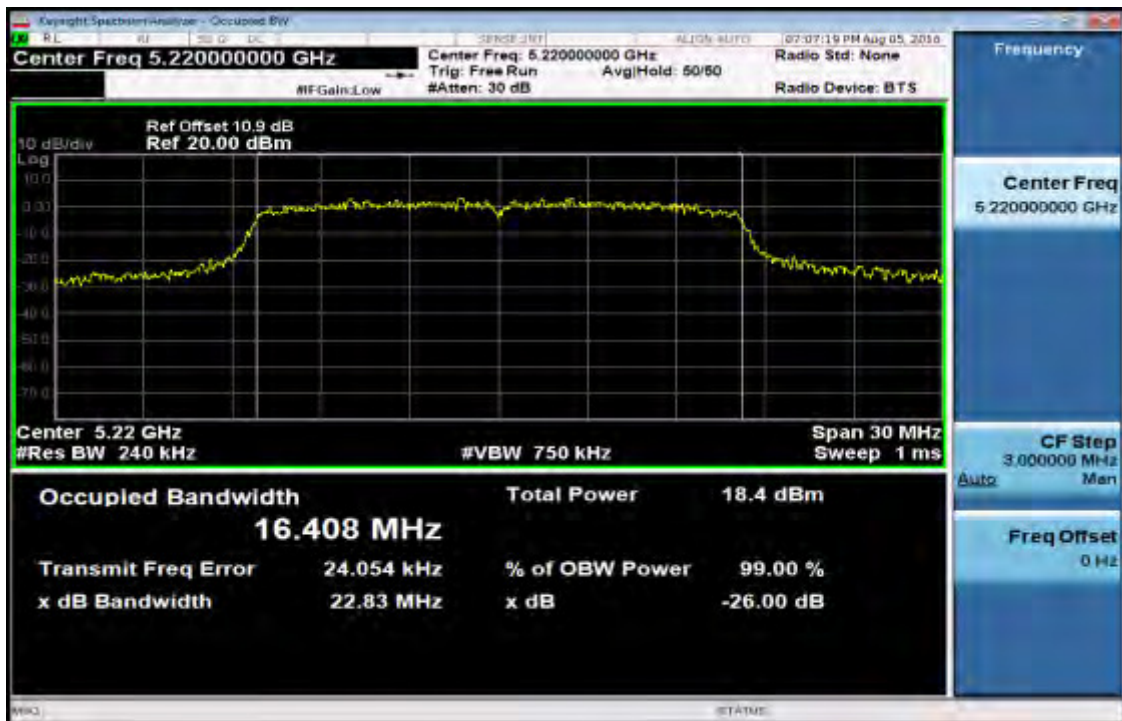
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### 26dB & 99% Band Width Test Data CH-Low (5180MHz)



### 26dB & 99% Band Width Test Data CH-Mid (5220MHz)



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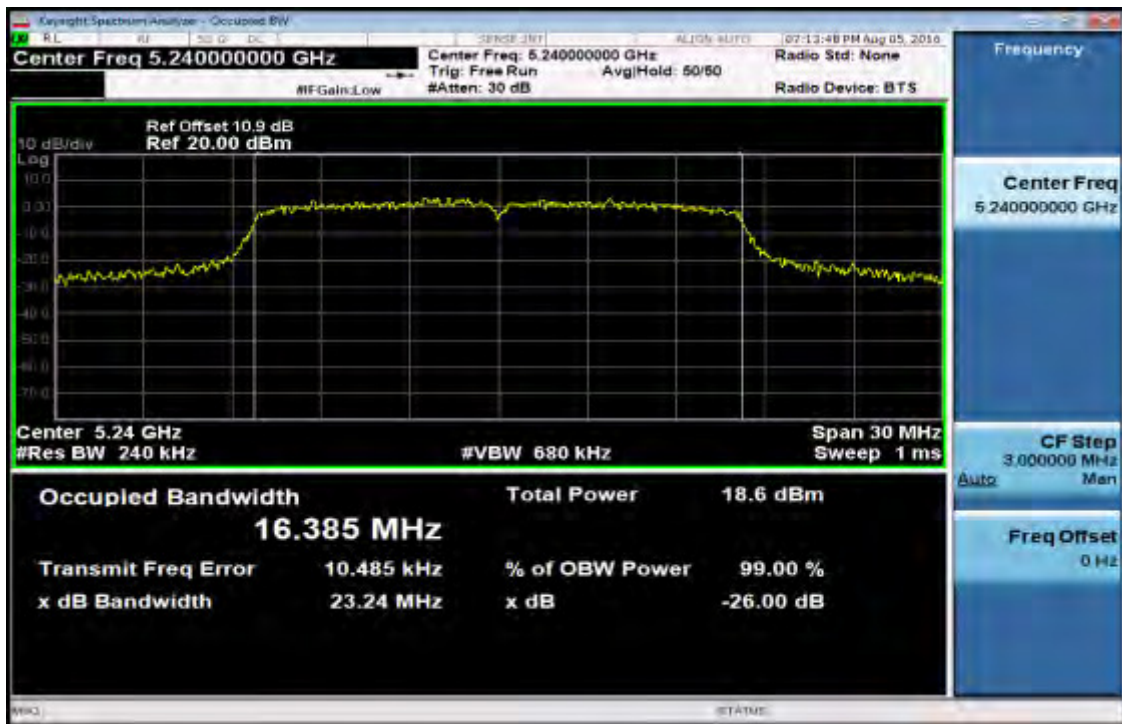
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### 26dB & 99% Band Width Test Data CH-High (5240MHz)



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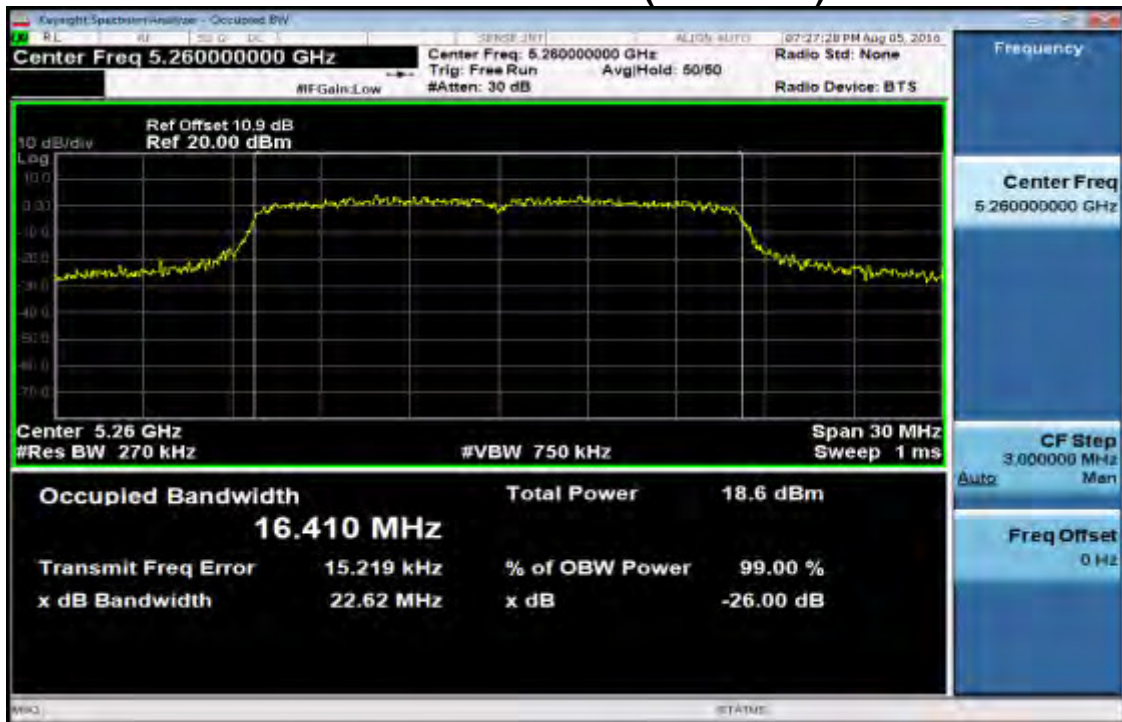
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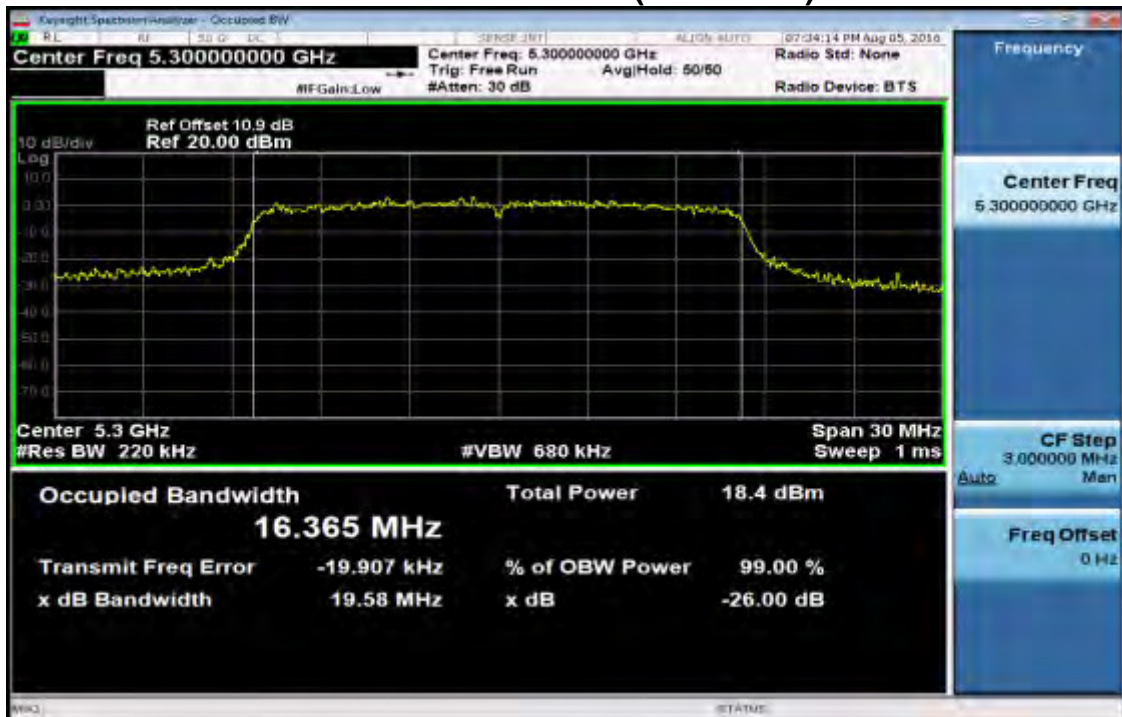
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**802.11a, 5250~5350 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5260MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5300MHz)**



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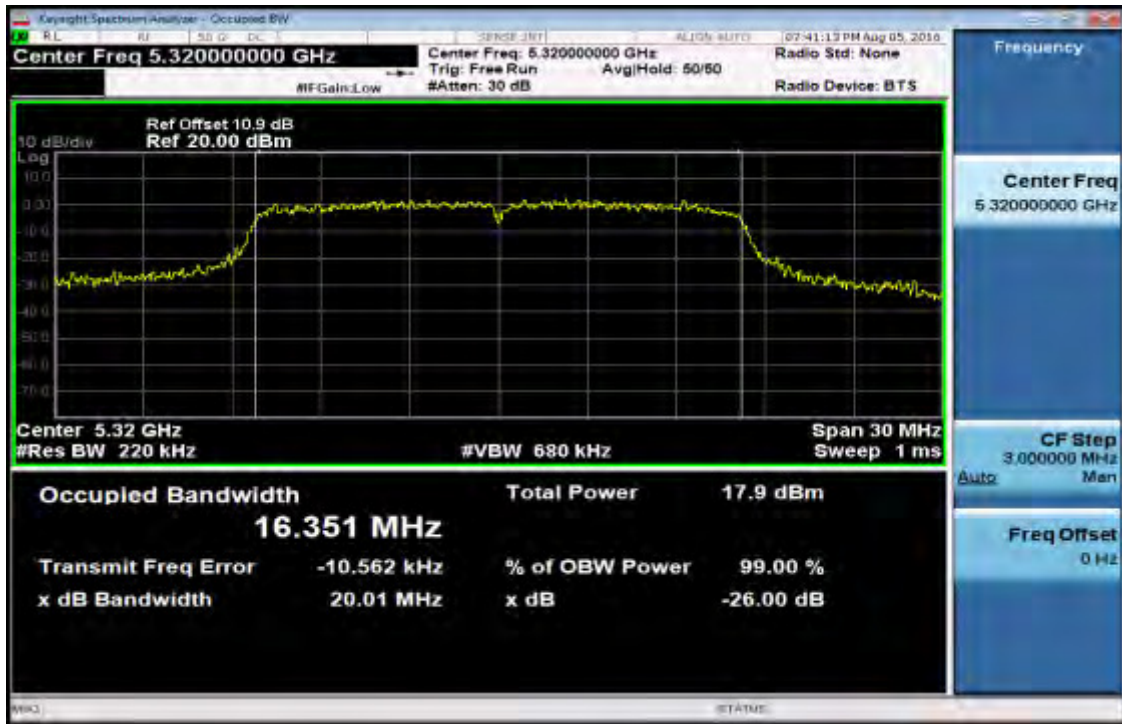
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### 26dB & 99% Band Width Test Data CH-High (5320MHz)



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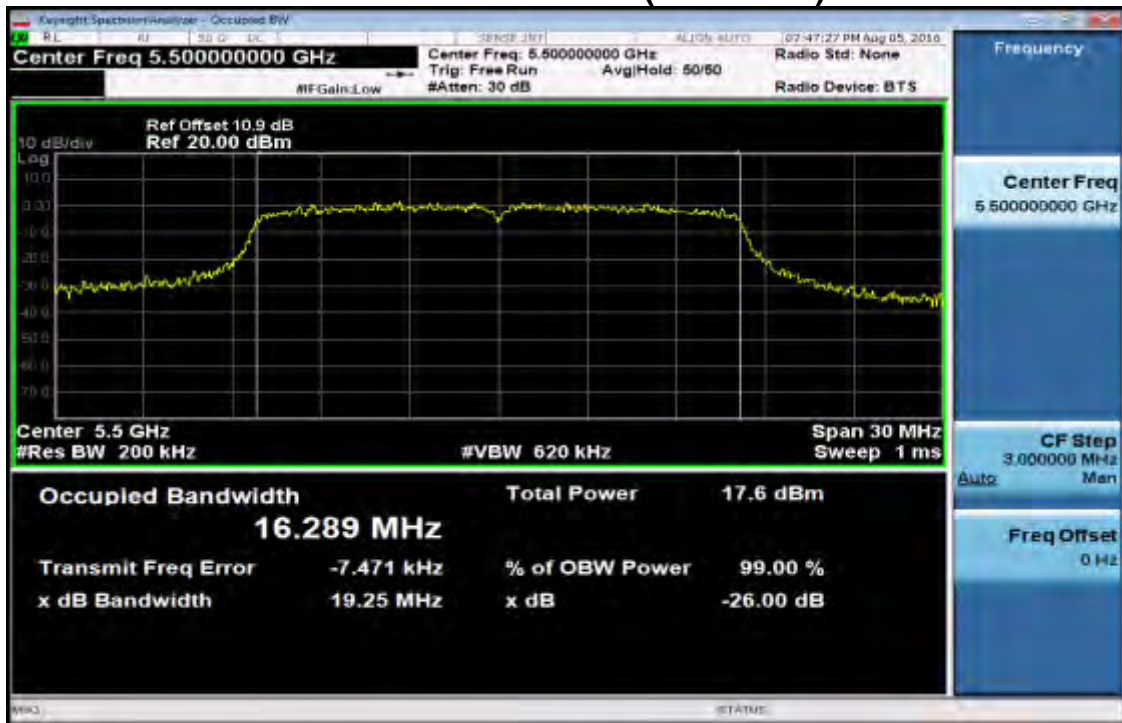
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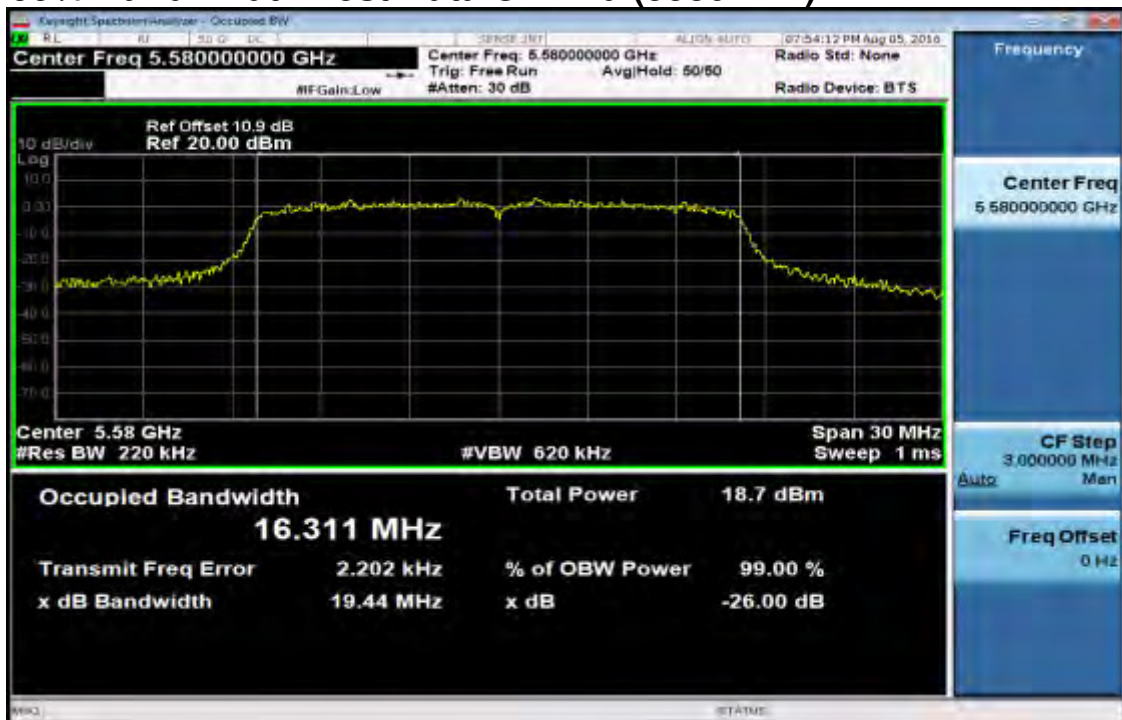
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**802.11a, 5470~5725 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5500MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5580MHz)**



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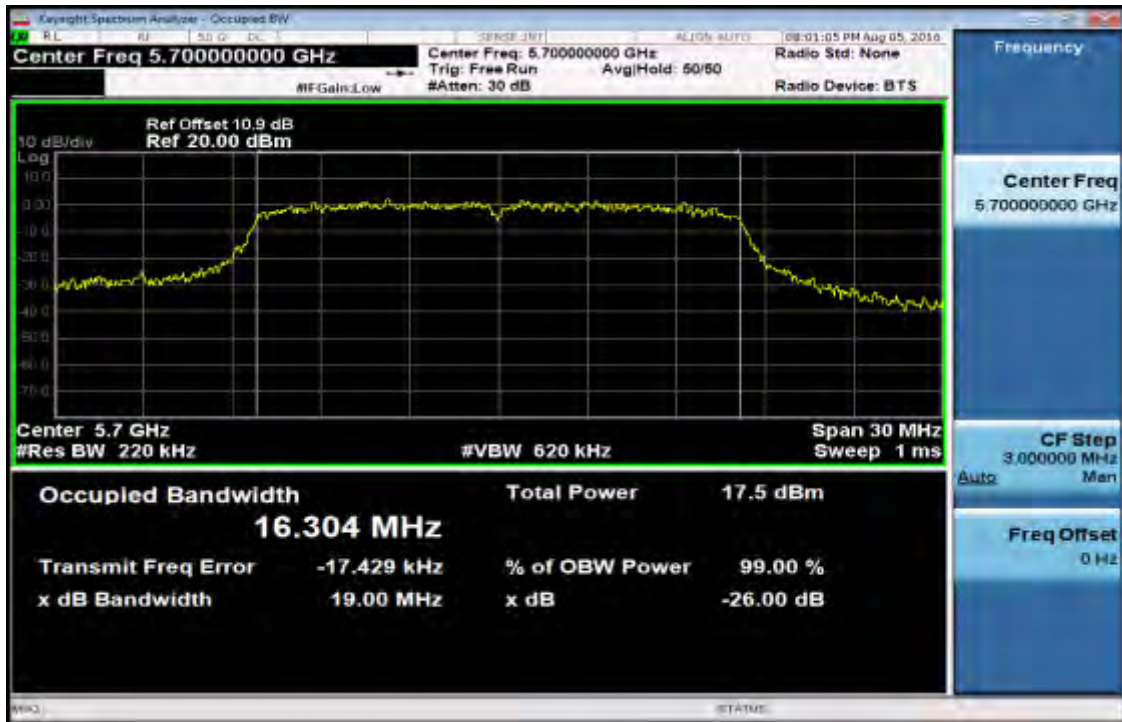
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### 26dB & 99% Band Width Test Data CH-High (5700MHz)



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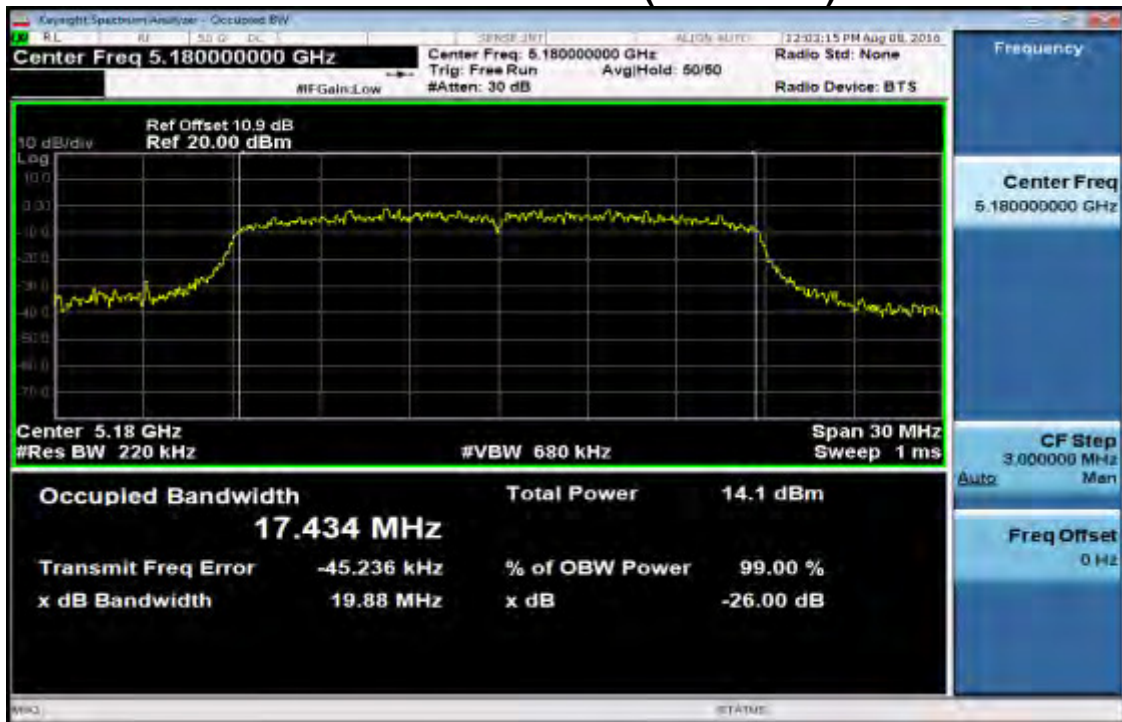
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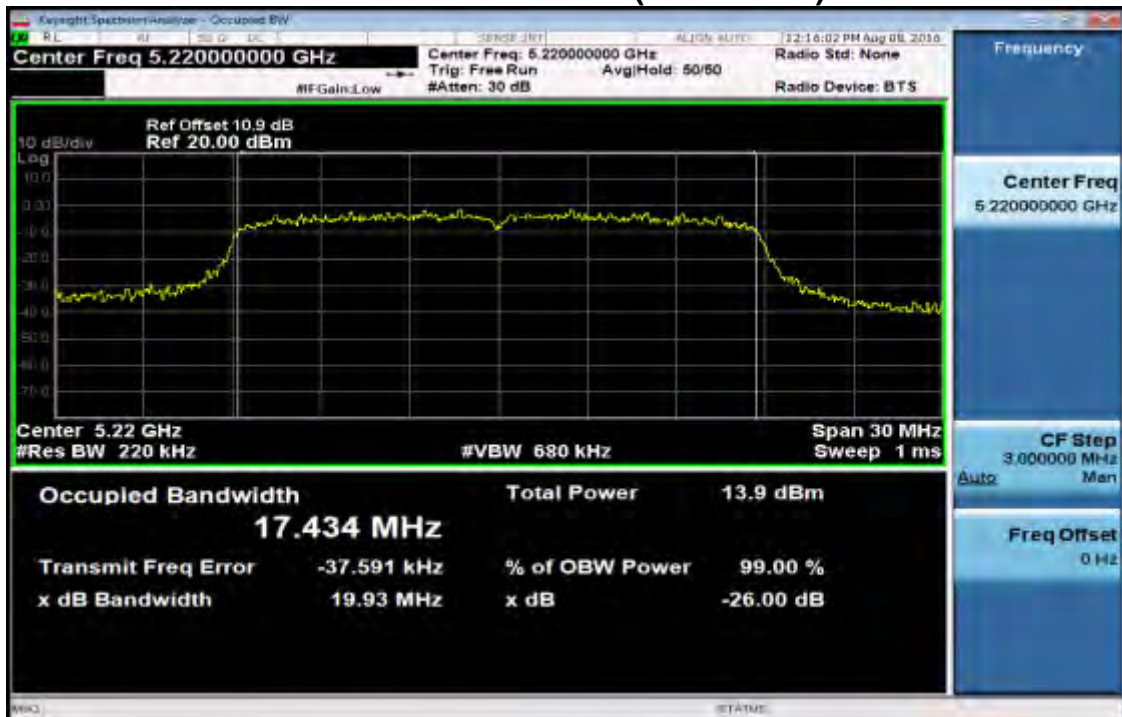
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**802.11n HT20, 5150~5250 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5180 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5220 MHz)**



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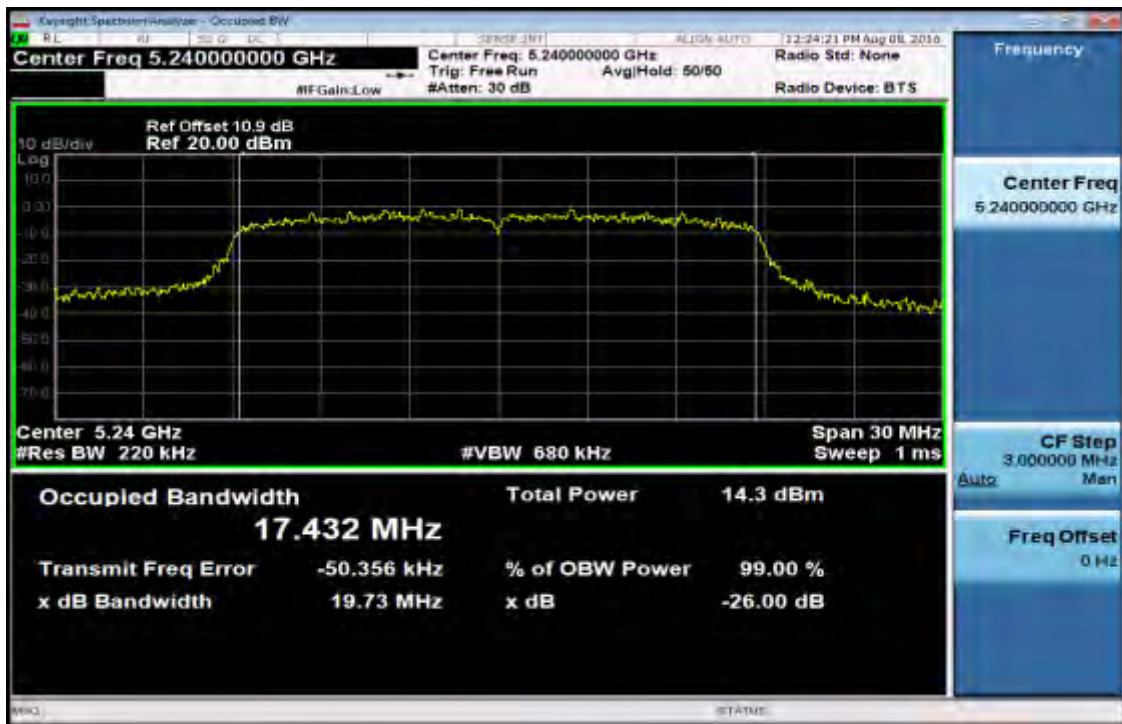
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### 26dB & 99% Band Width Test Data CH-High (5240 MHz)



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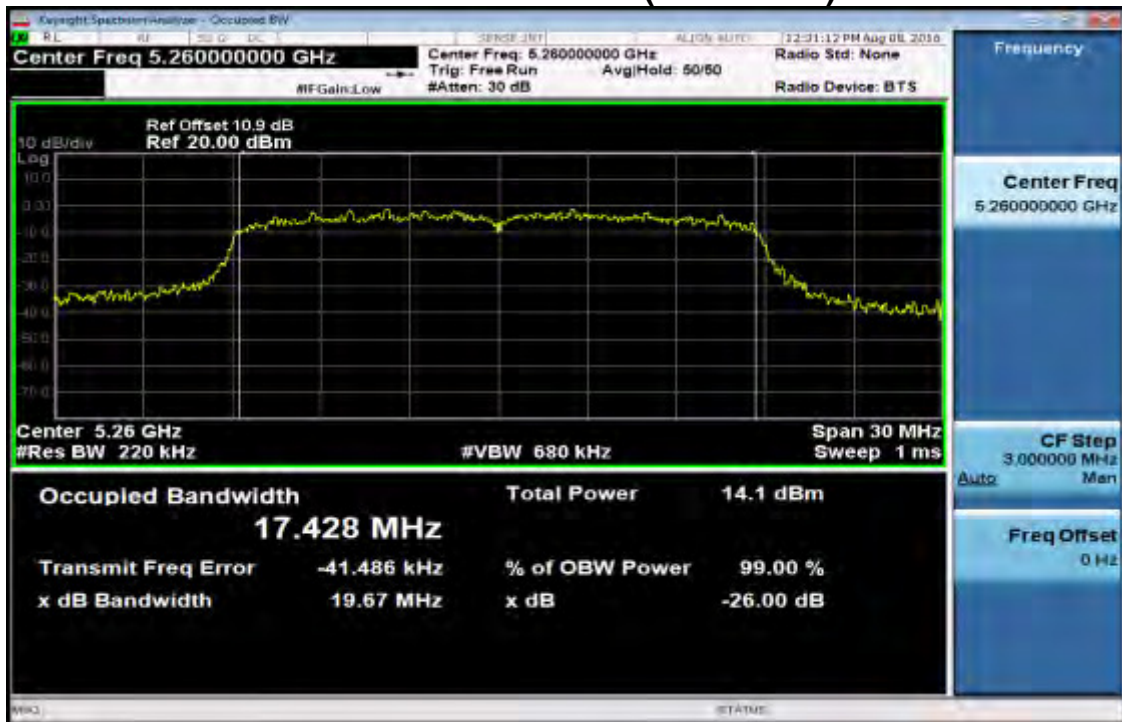
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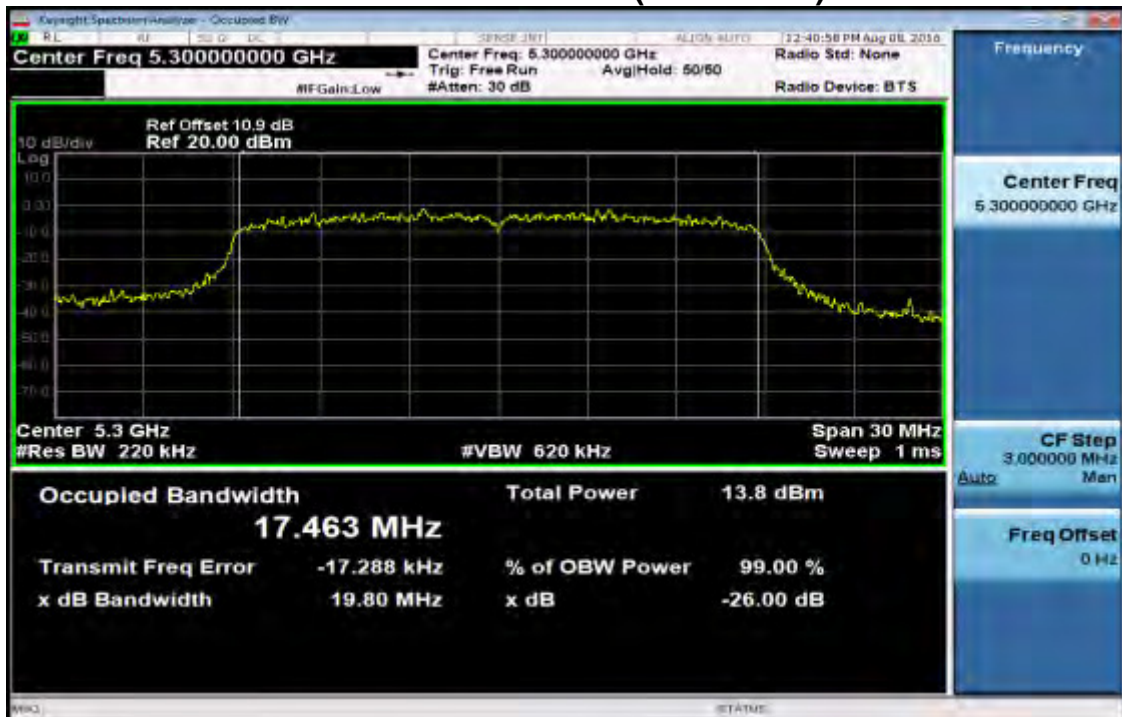
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**802.11n HT20, 5250~5350 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5260 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5300 MHz)**



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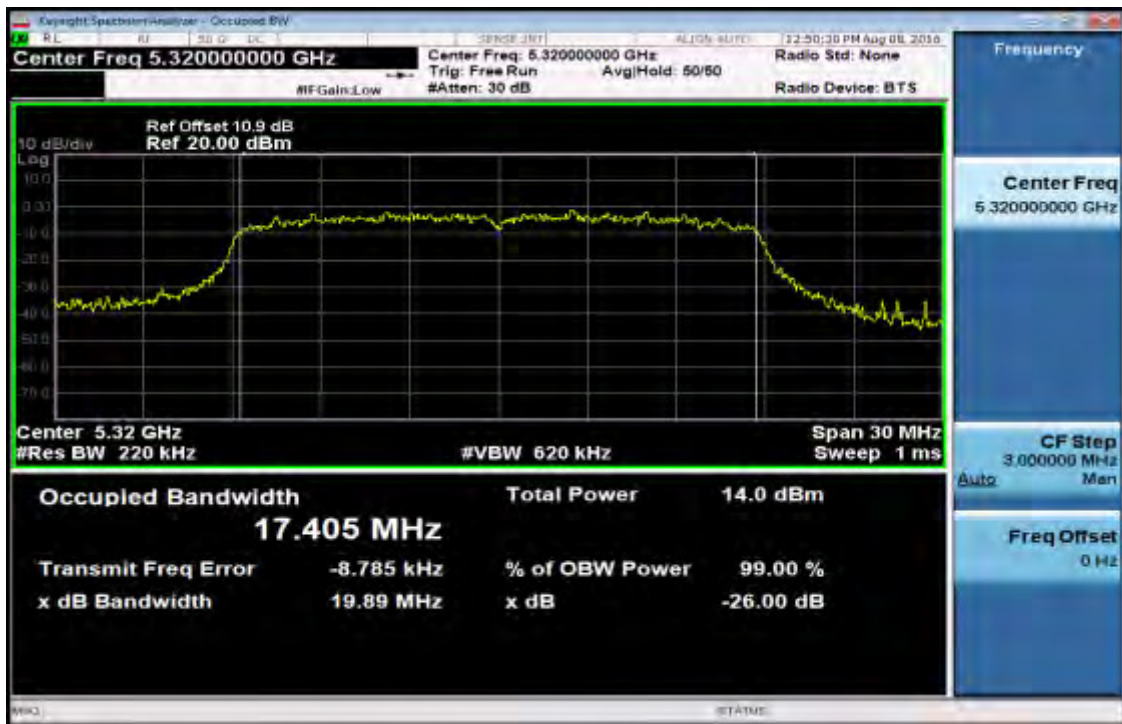
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### 26dB & 99% Band Width Test Data CH-High (5320 MHz)



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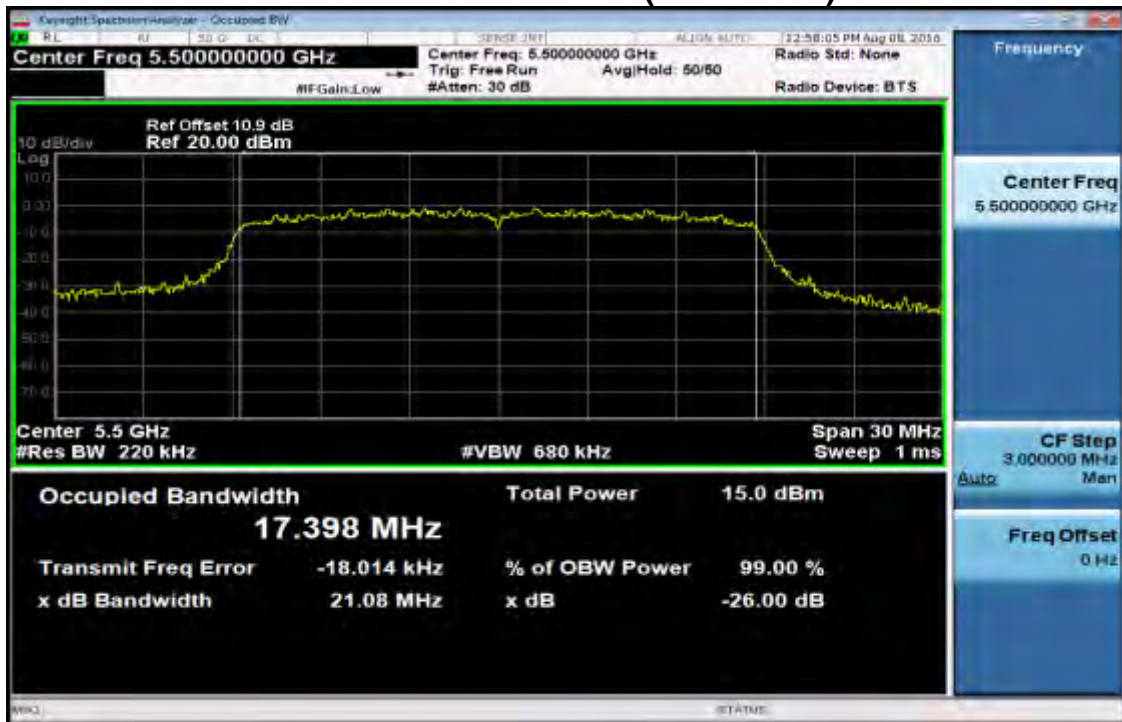
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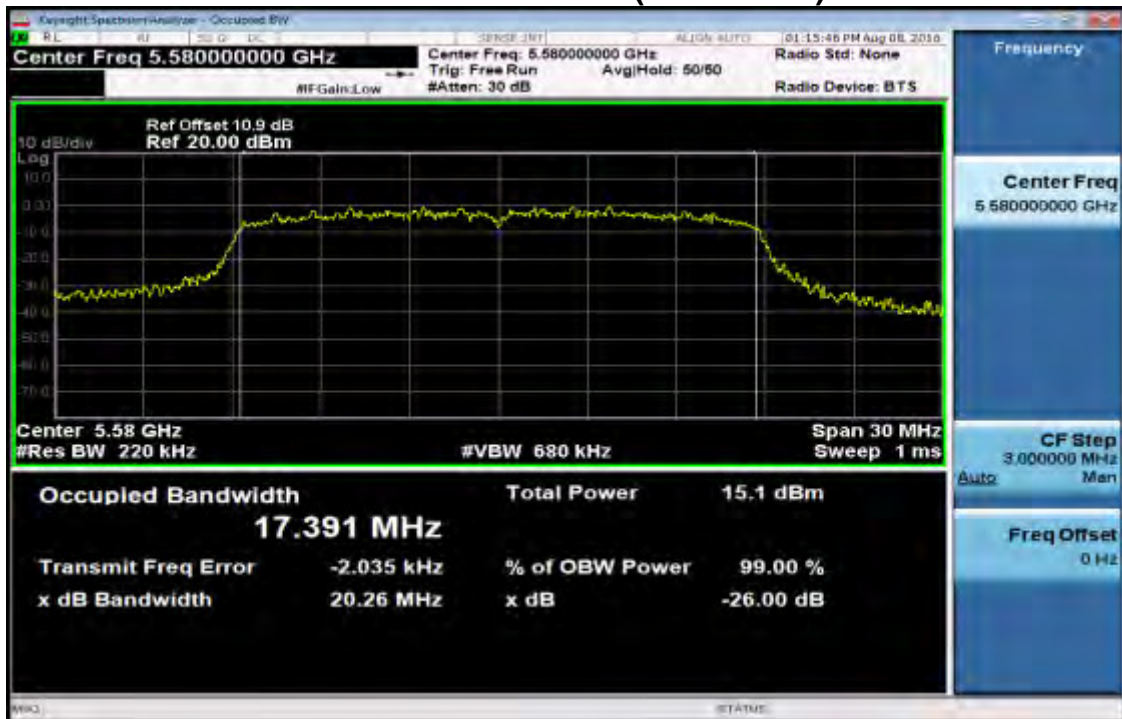
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**802.11n HT20, 5470~5725 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5500 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5580 MHz)**



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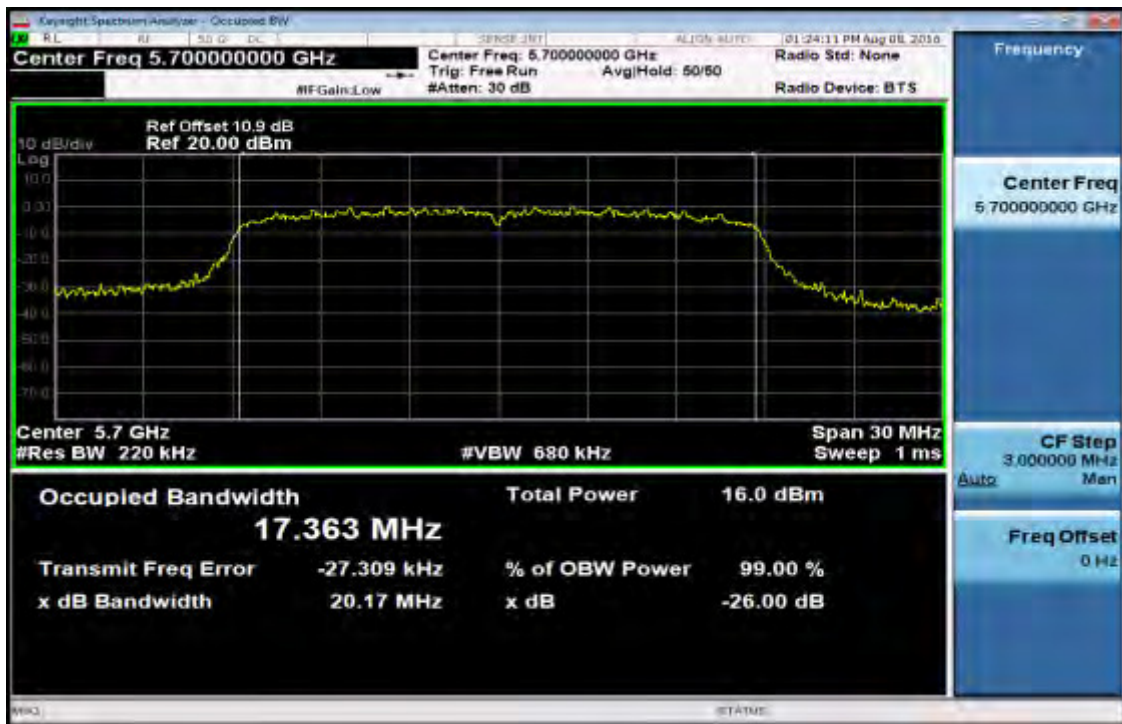
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### 26dB & 99% Band Width Test Data CH-High (5700 MHz)



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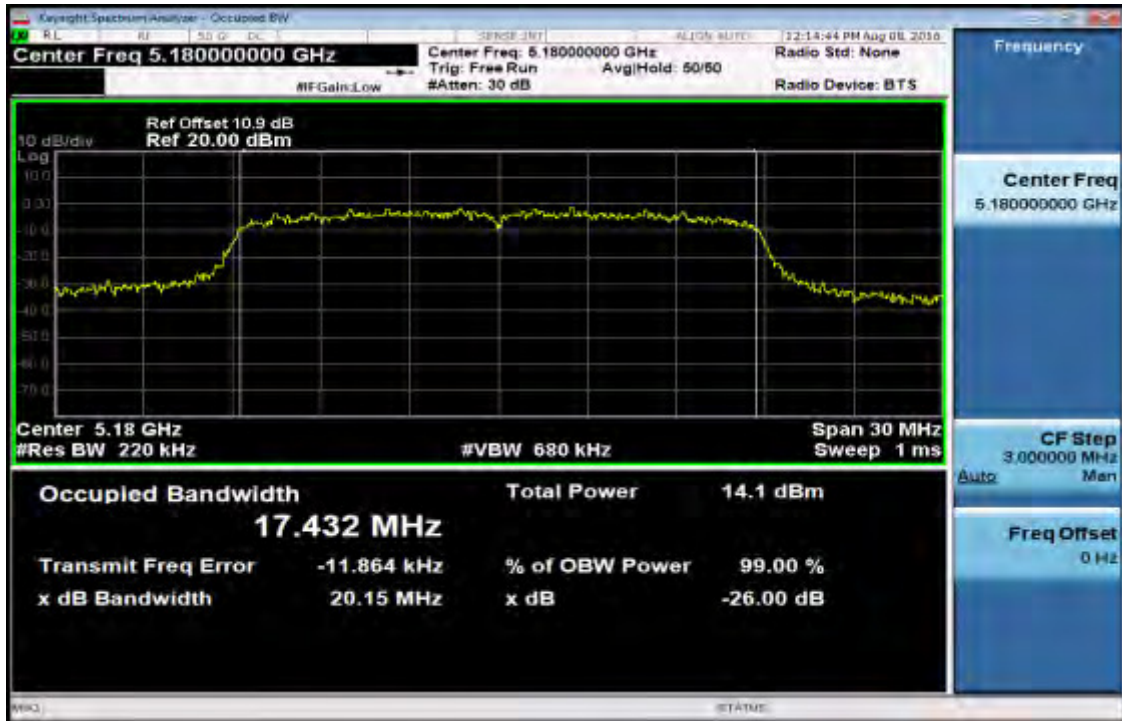
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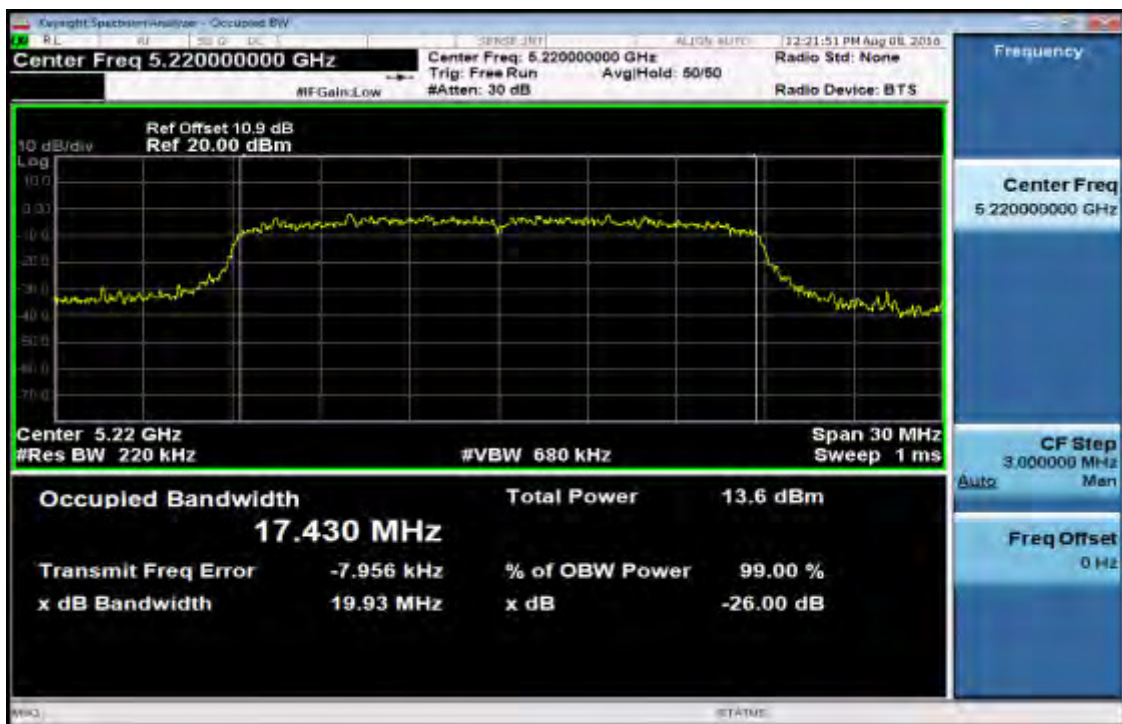
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**802.11n HT20, 5150~5250 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5180 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5220 MHz)**



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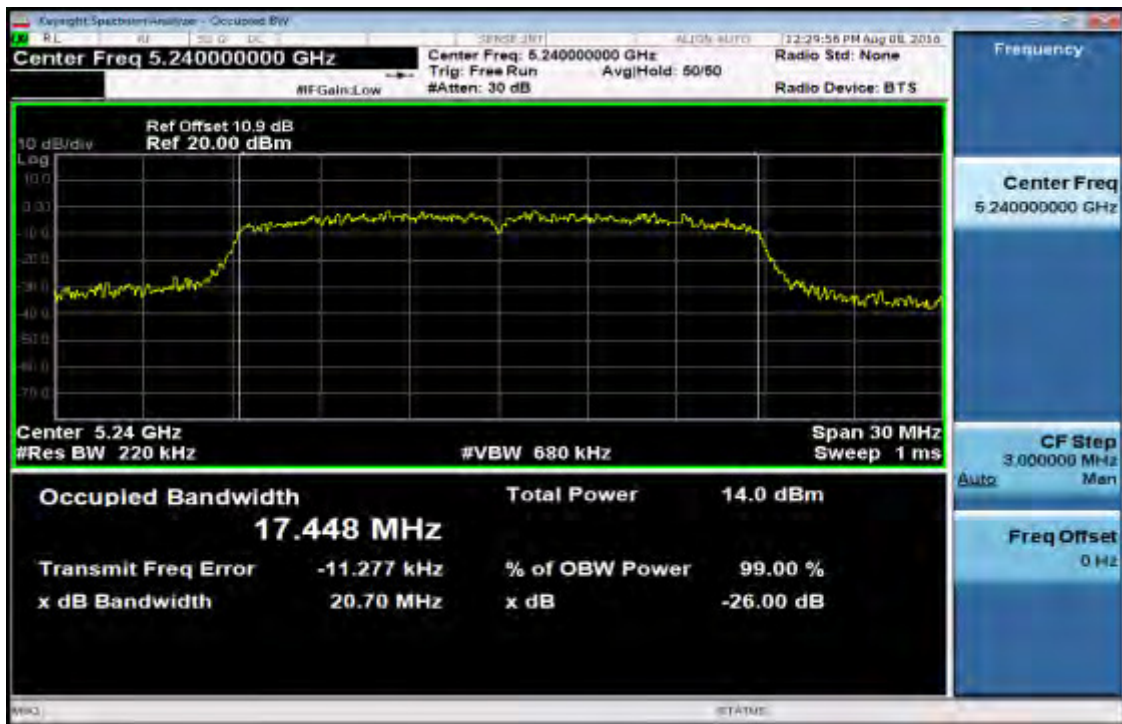
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### 26dB & 99% Band Width Test Data CH-High (5240 MHz)



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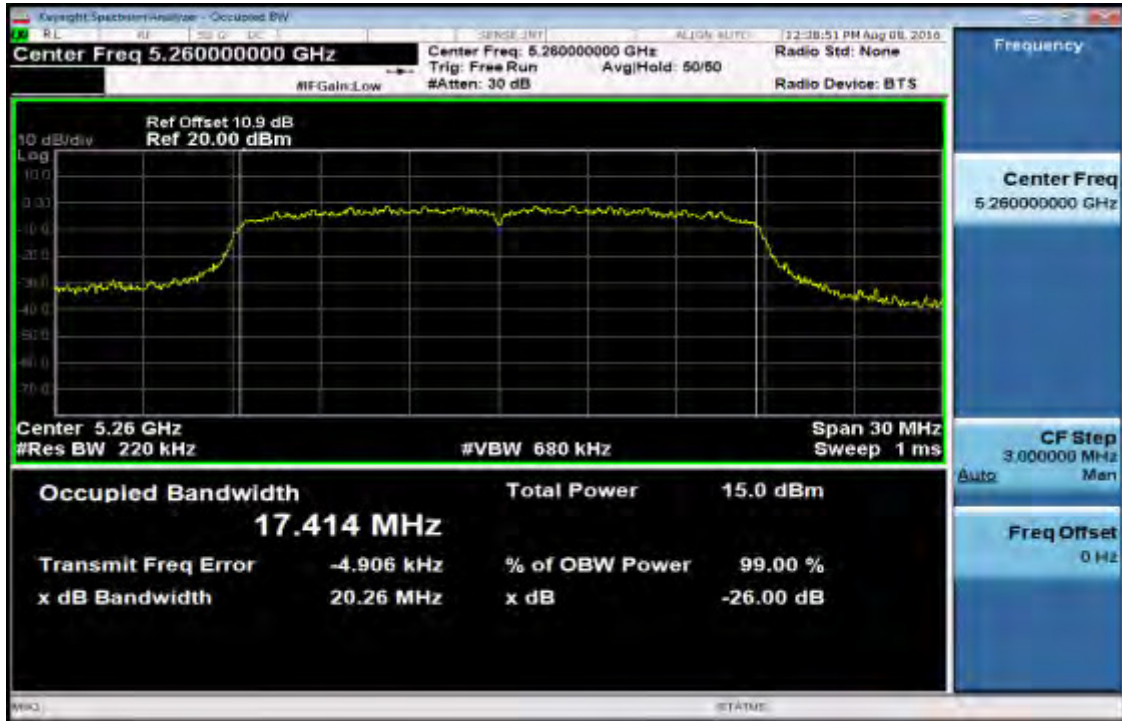
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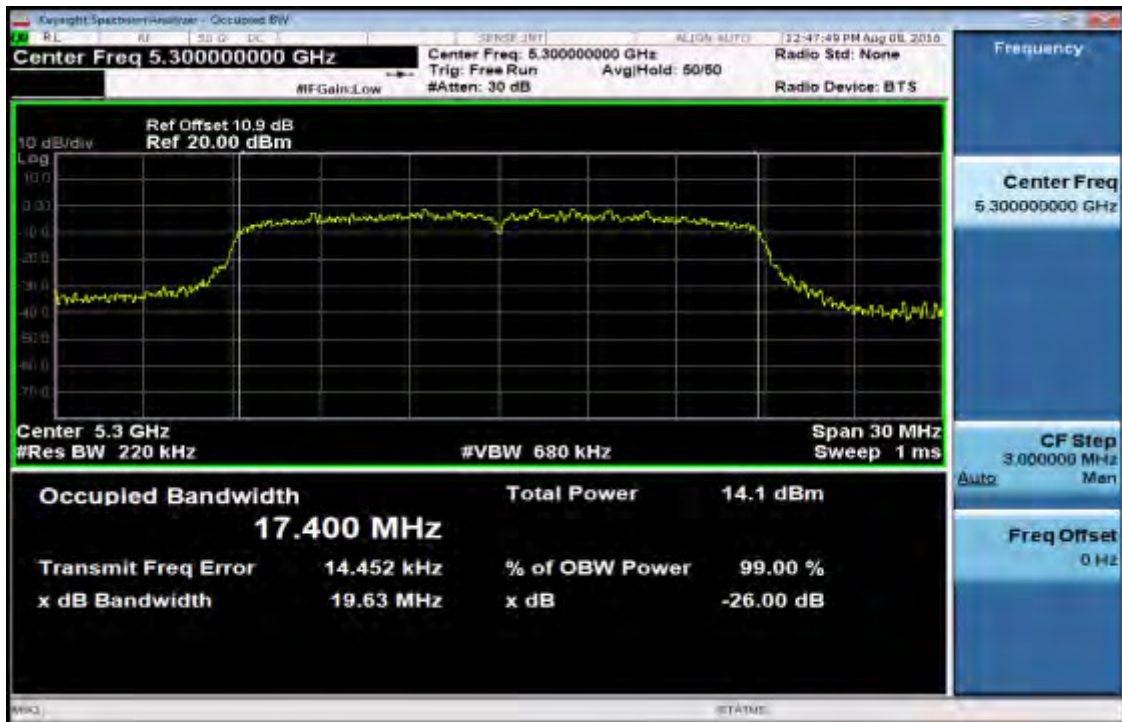
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**802.11n HT20, 5250~5350 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5260 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5300 MHz)**



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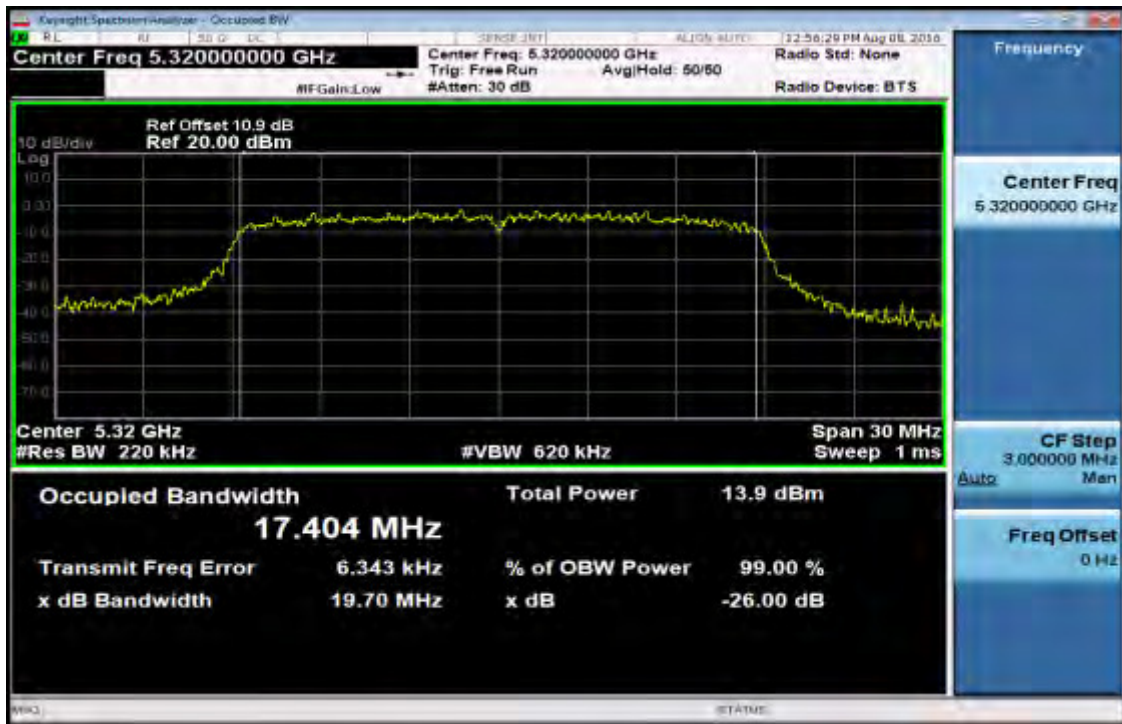
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### 26dB & 99% Band Width Test Data CH-High (5320 MHz)



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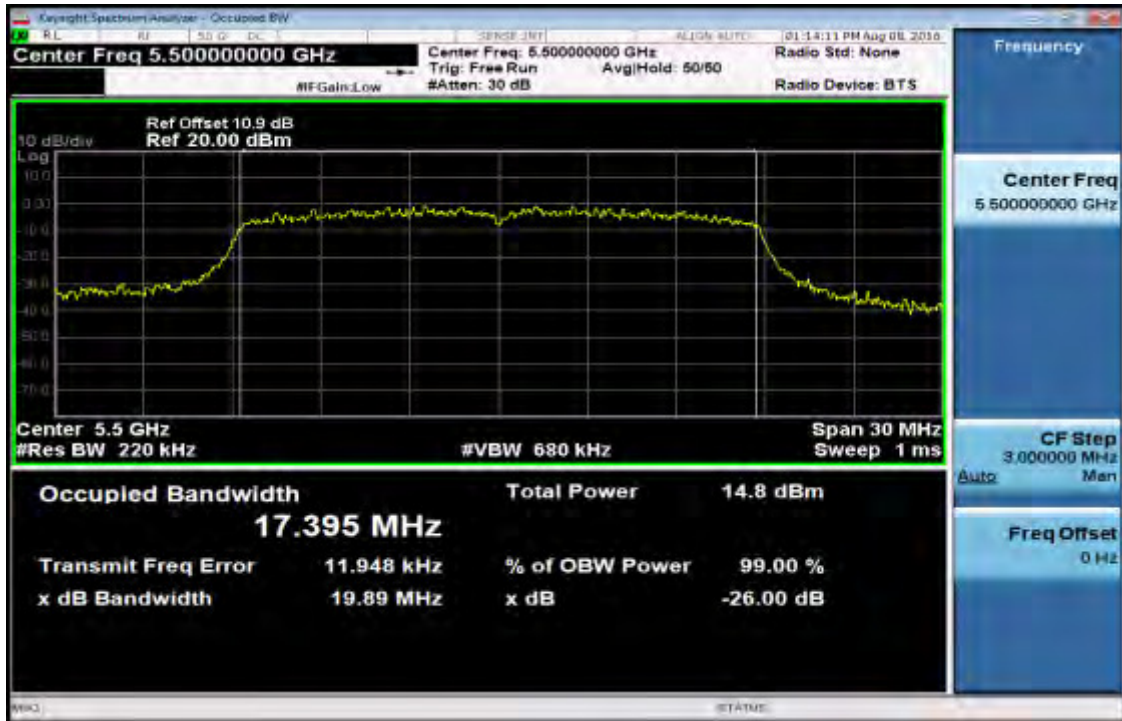
t (886-2) 2299-3279

f (886-2) 2298-0488

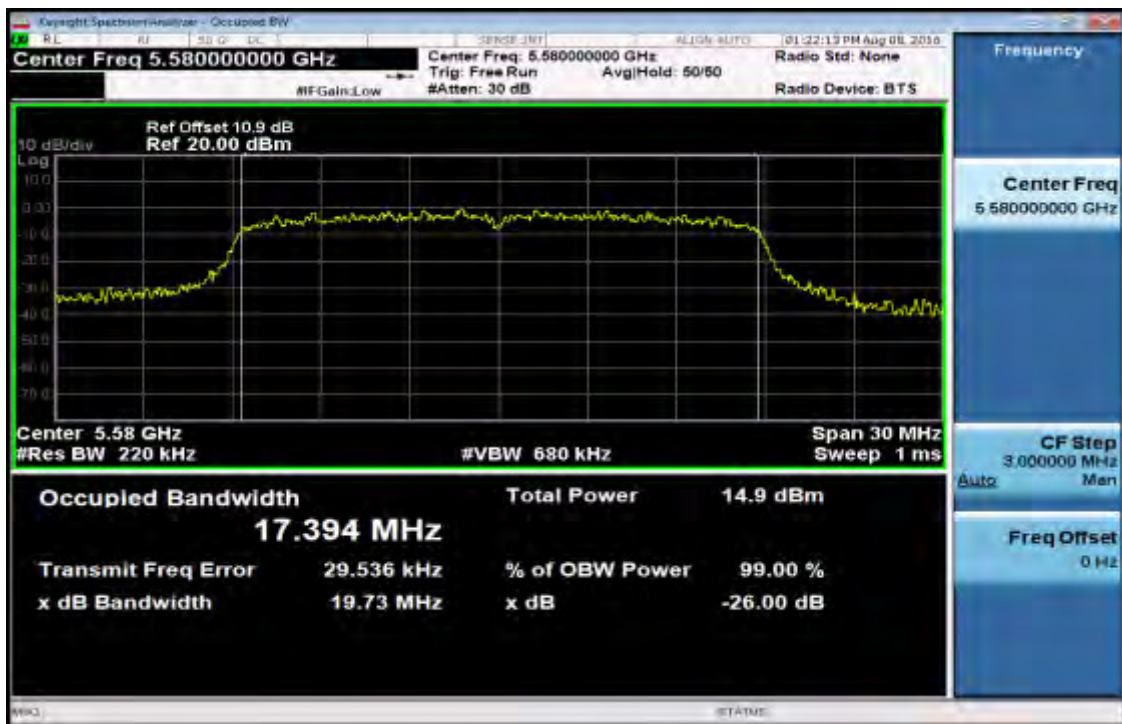
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**802.11n HT20, 5470~5725 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5500 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5580 MHz)**

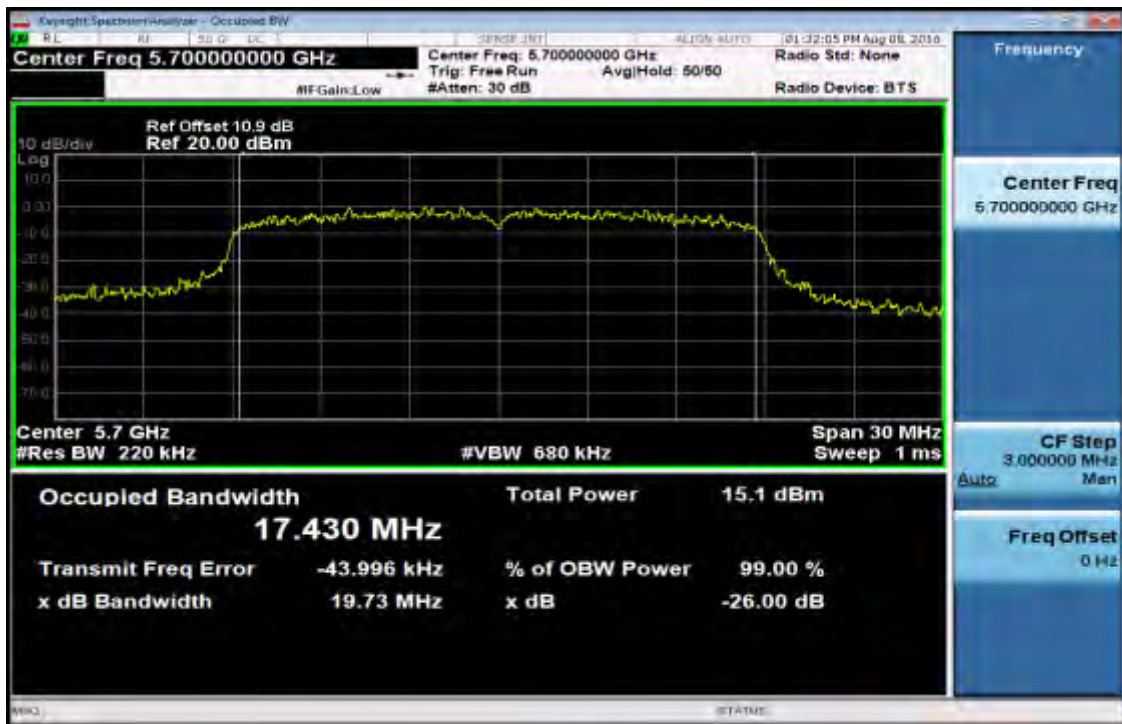


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### 26dB & 99% Band Width Test Data CH-High (5700 MHz)



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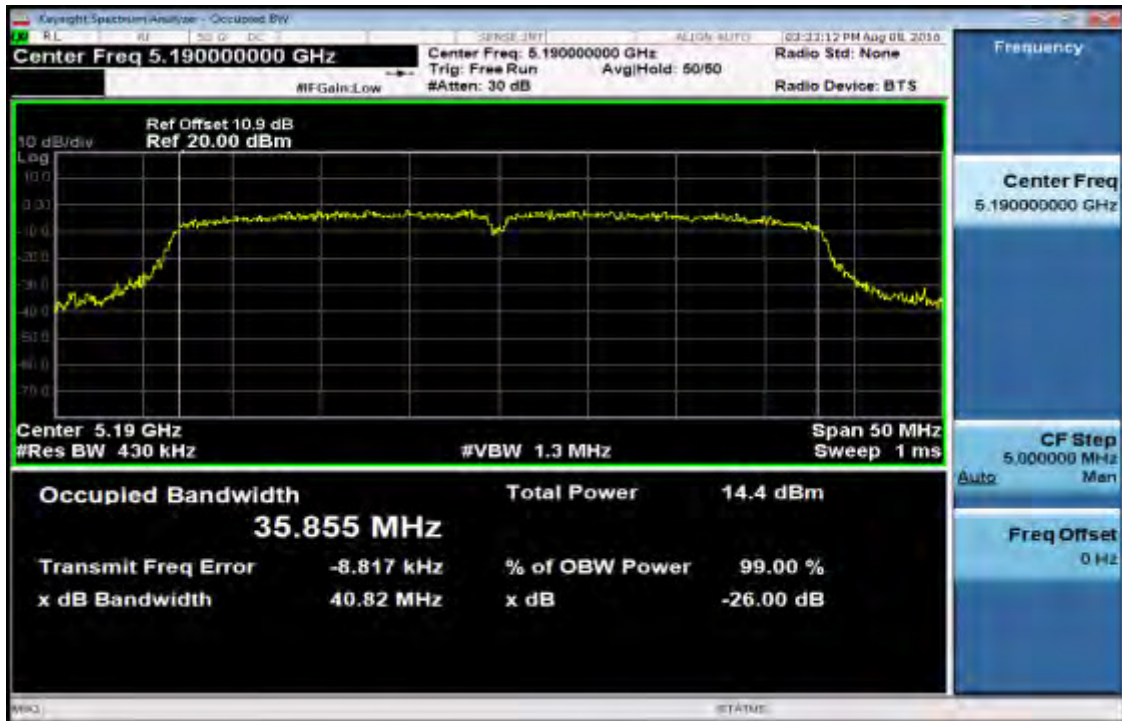
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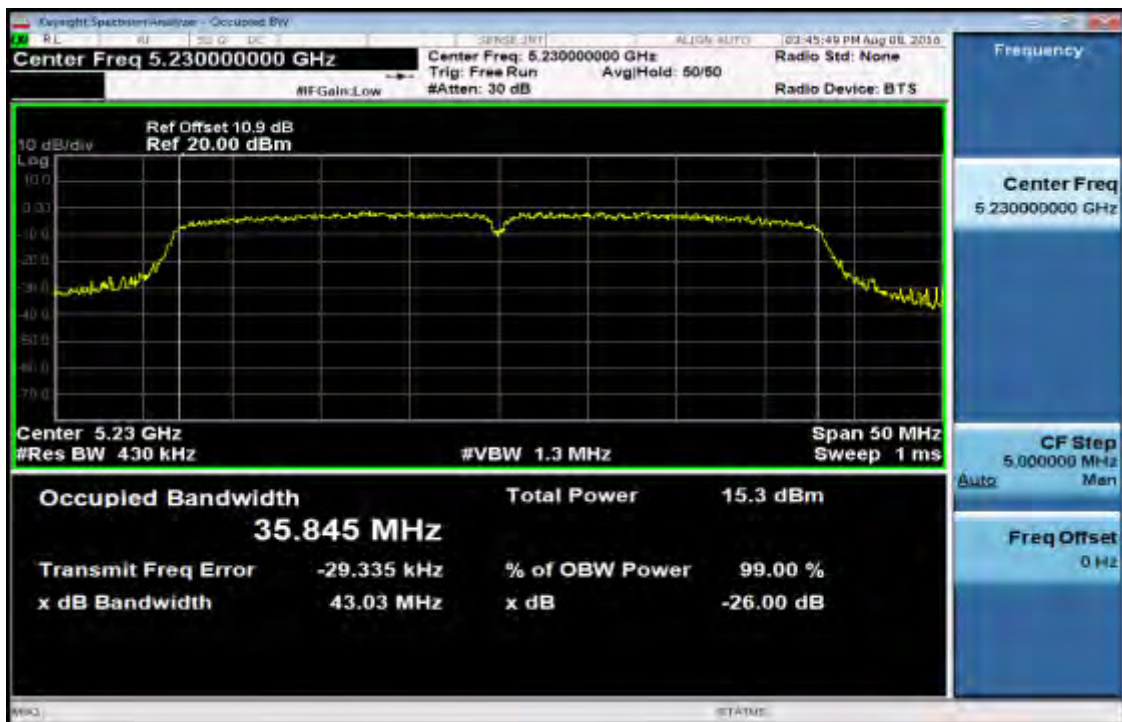
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**802.11n HT40, 5150~5250 MHz (Main)**  
**26dB & 99% Band Width Test Data CH-Low (5190 MHz)**



**26dB & 99% Band Width Test Data CH-High (5230 MHz)**

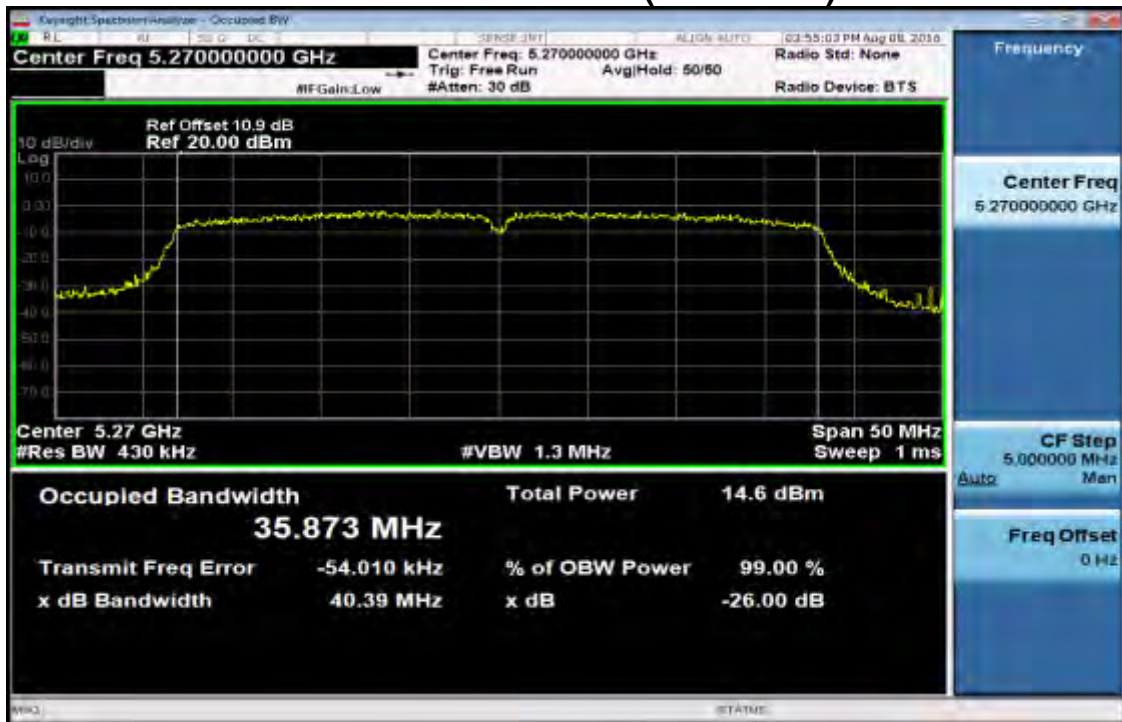


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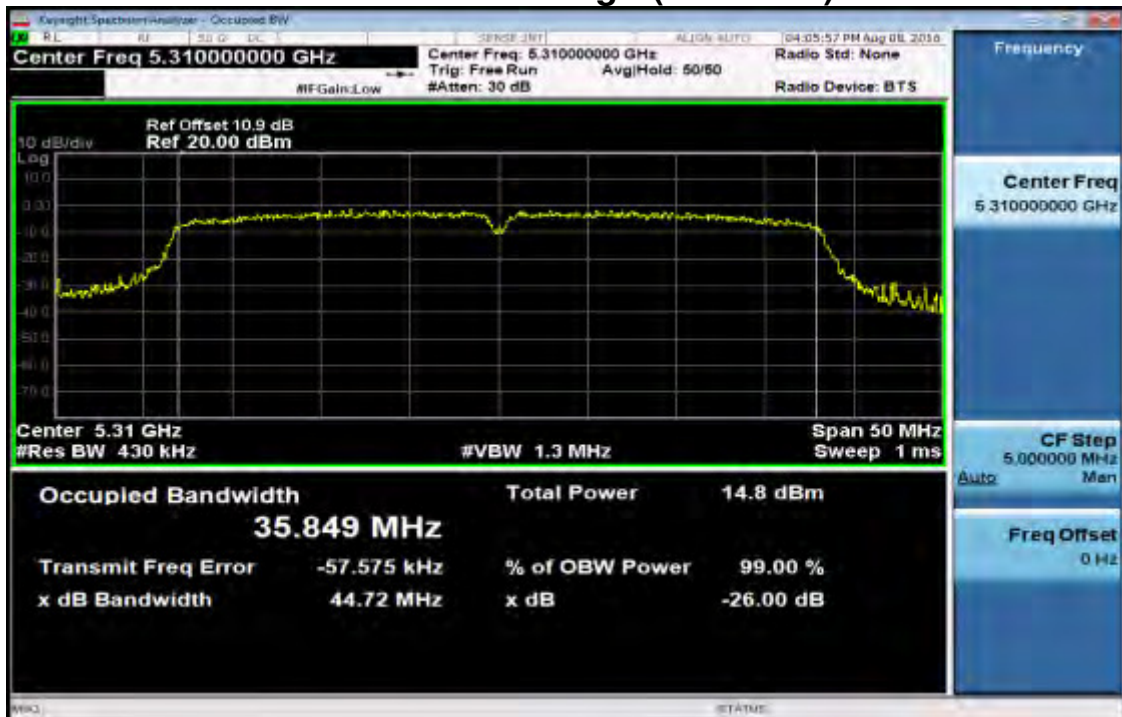
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**802.11n HT40, 5250~5350 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5270 MHz)**



**26dB & 99% Band Width Test Data CH-High (5310MHz)**



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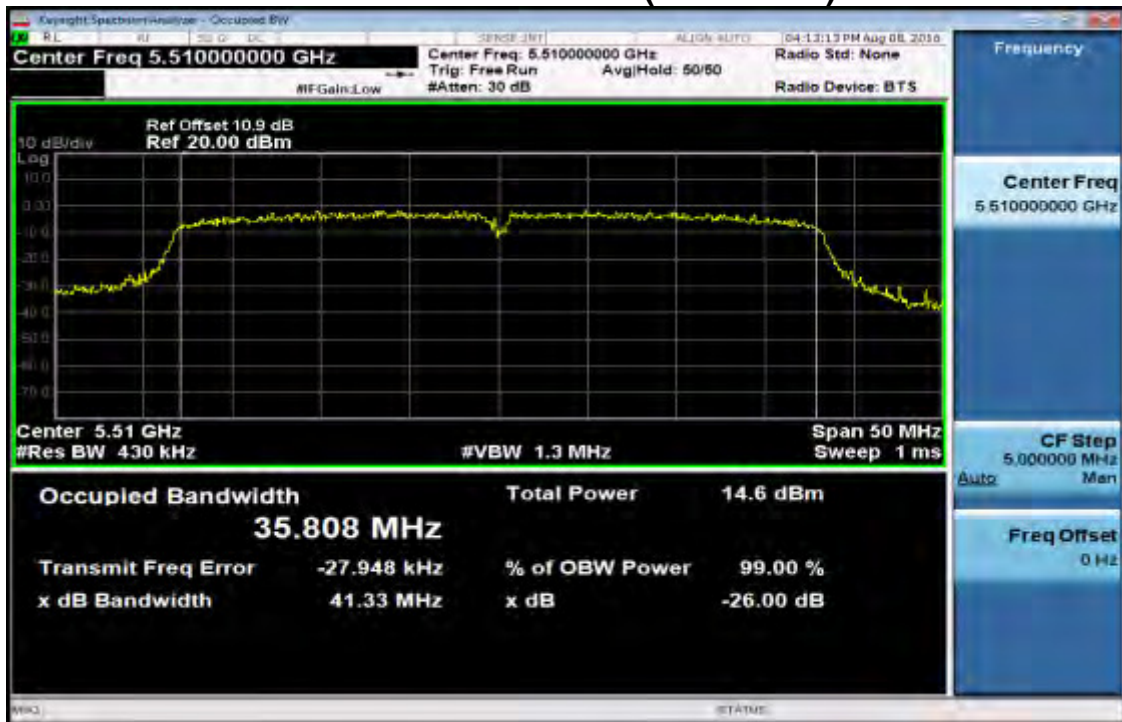
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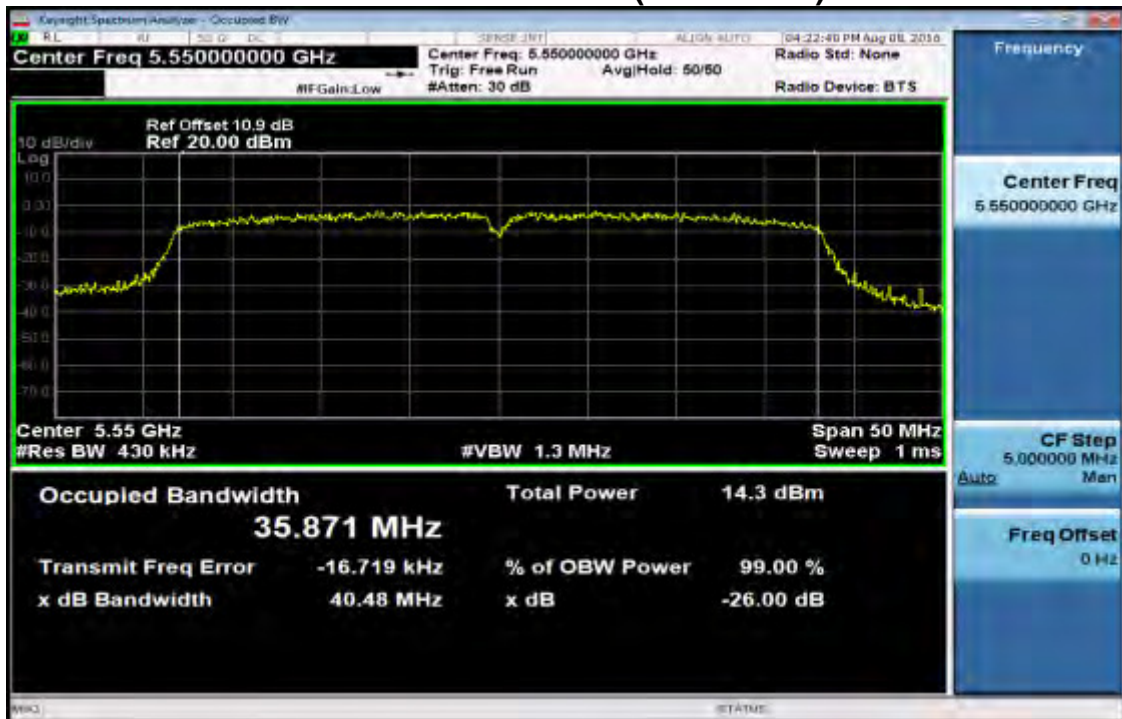
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**802.11n HT40, 5470~5725 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5510 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5550 MHz)**



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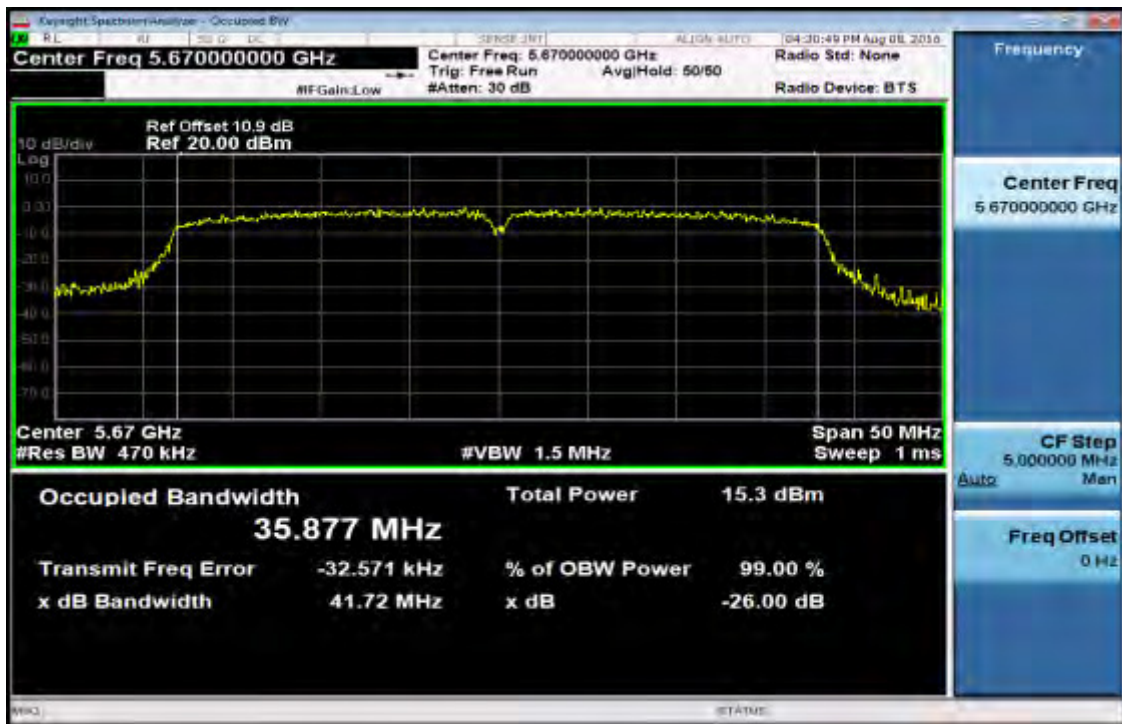
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### 26dB & 99% Band Width Test Data CH-High (5670 MHz)



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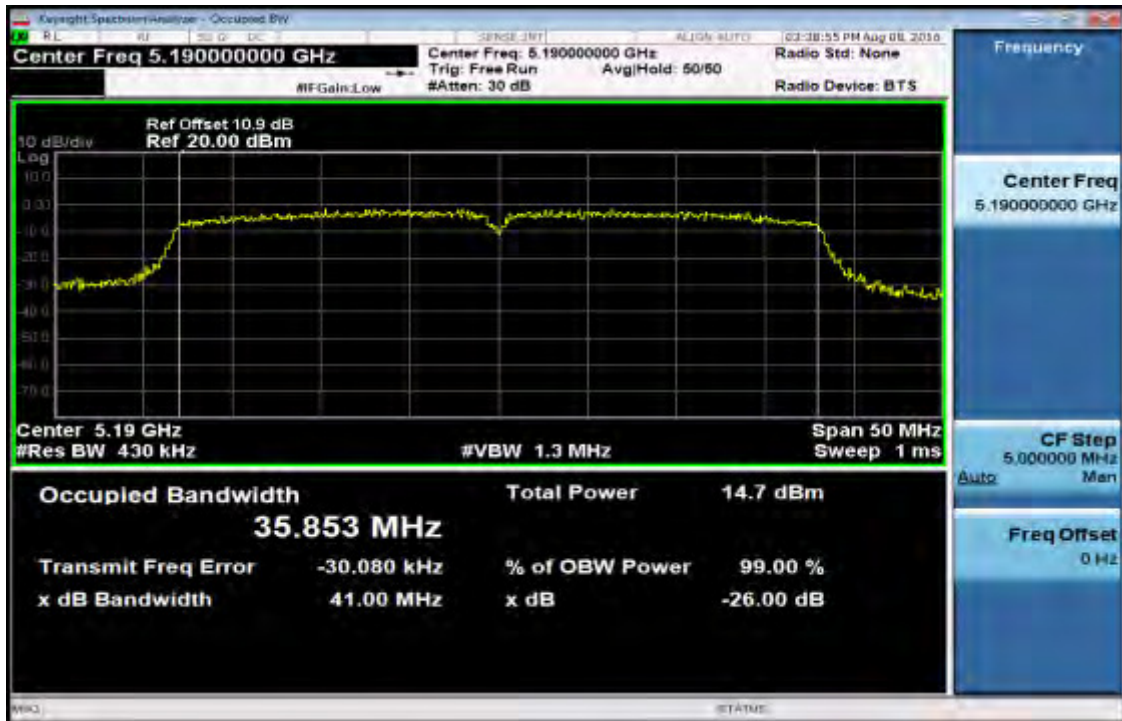
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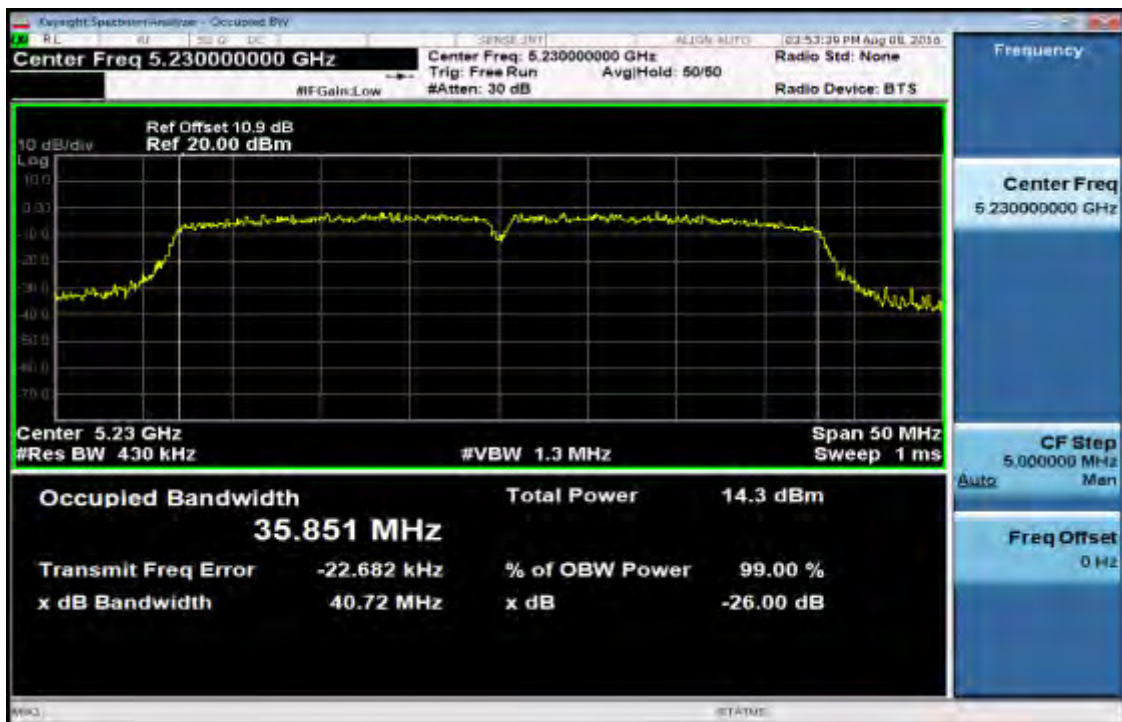
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**802.11n HT40, 5150~5250 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5190 MHz)**



**26dB & 99% Band Width Test Data CH-High (5230 MHz)**

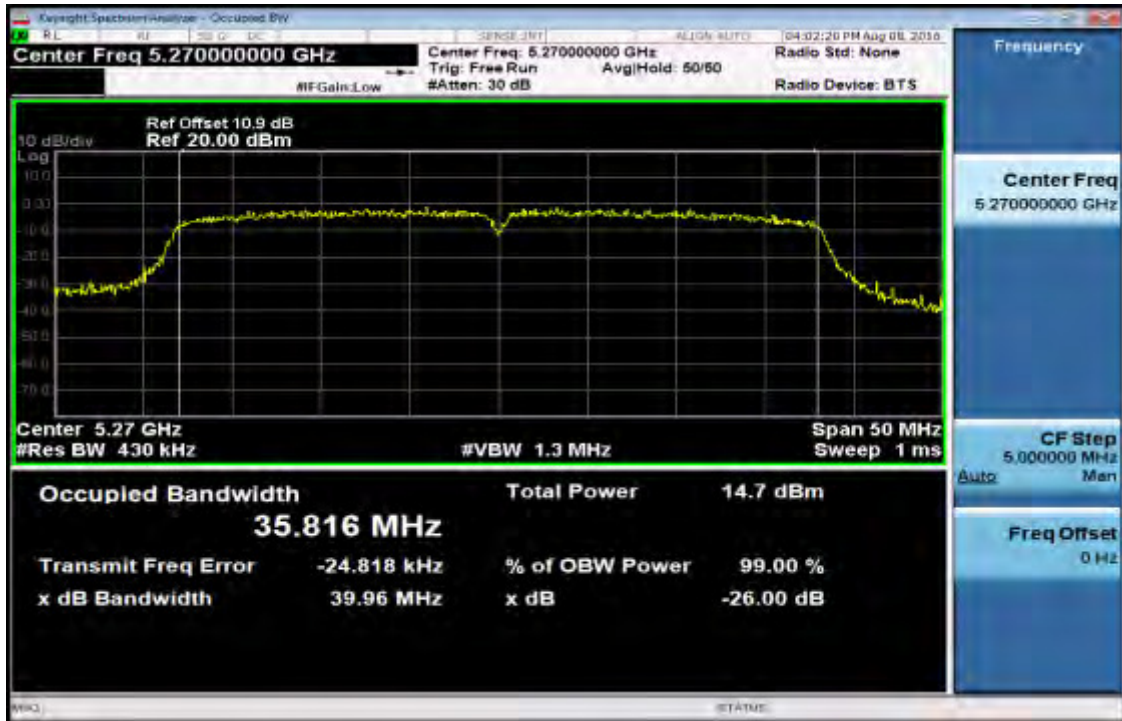


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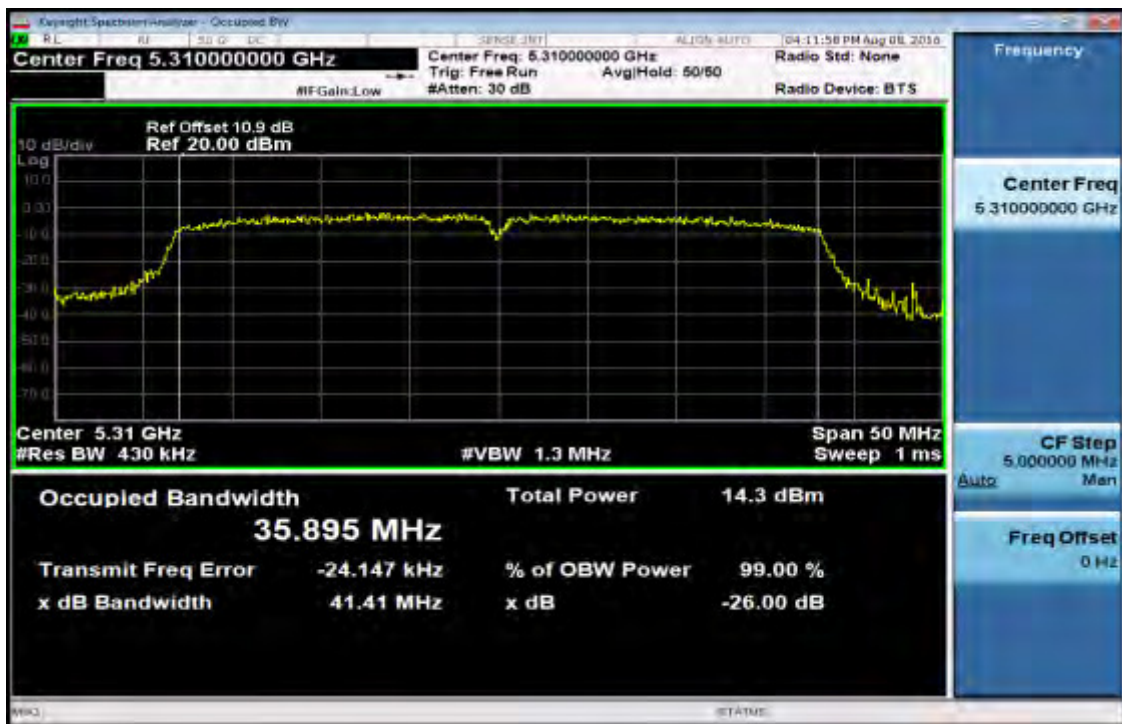
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**802.11n HT40, 5250~5350 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5270 MHz)**



**26dB & 99% Band Width Test Data CH-High (5310MHz)**



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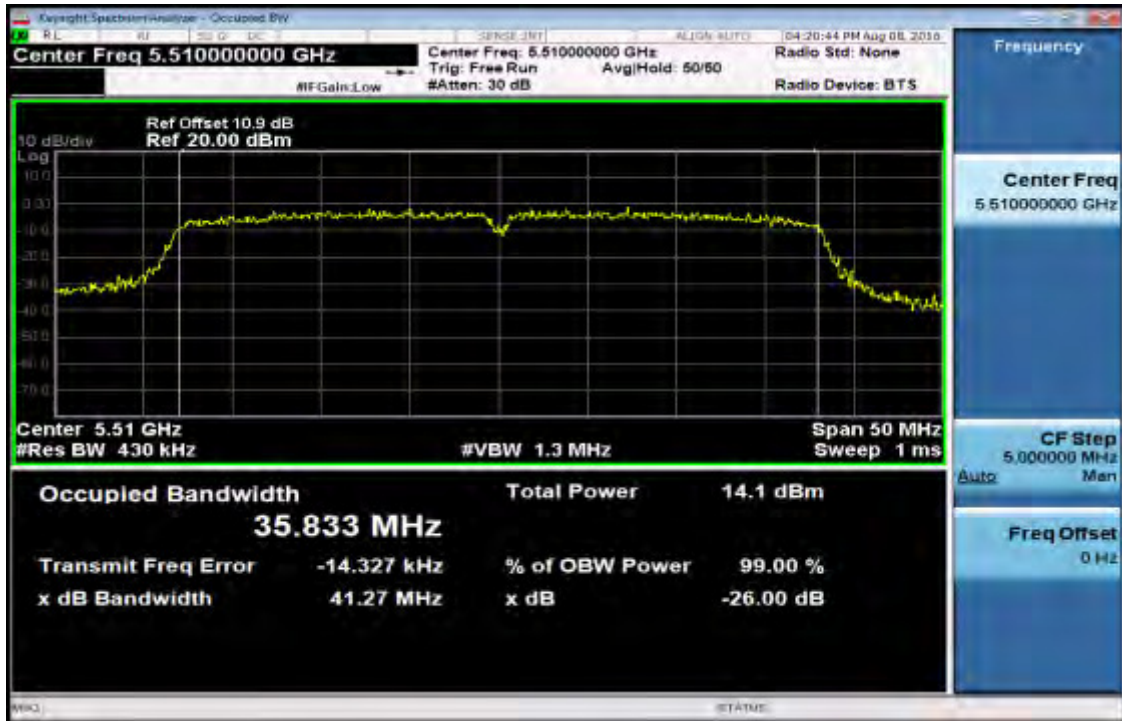
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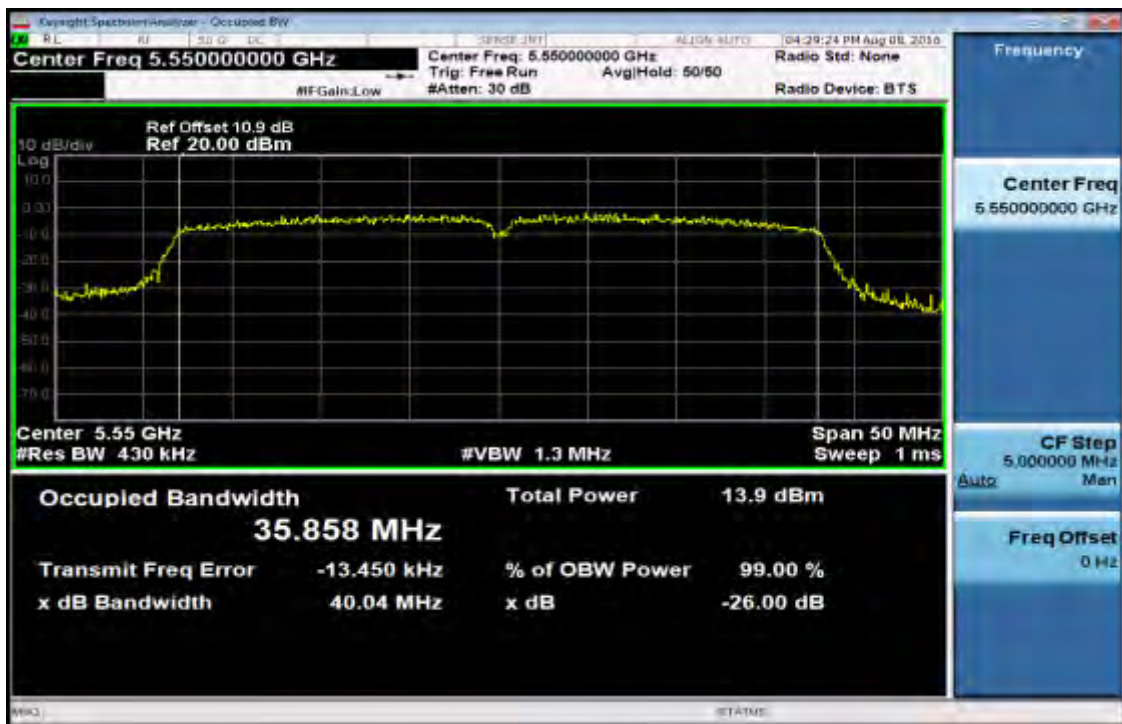
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**802.11n HT40, 5470~5725 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5510 MHz)**



**26dB & 99% Band Width Test Data CH-Mid (5550 MHz)**



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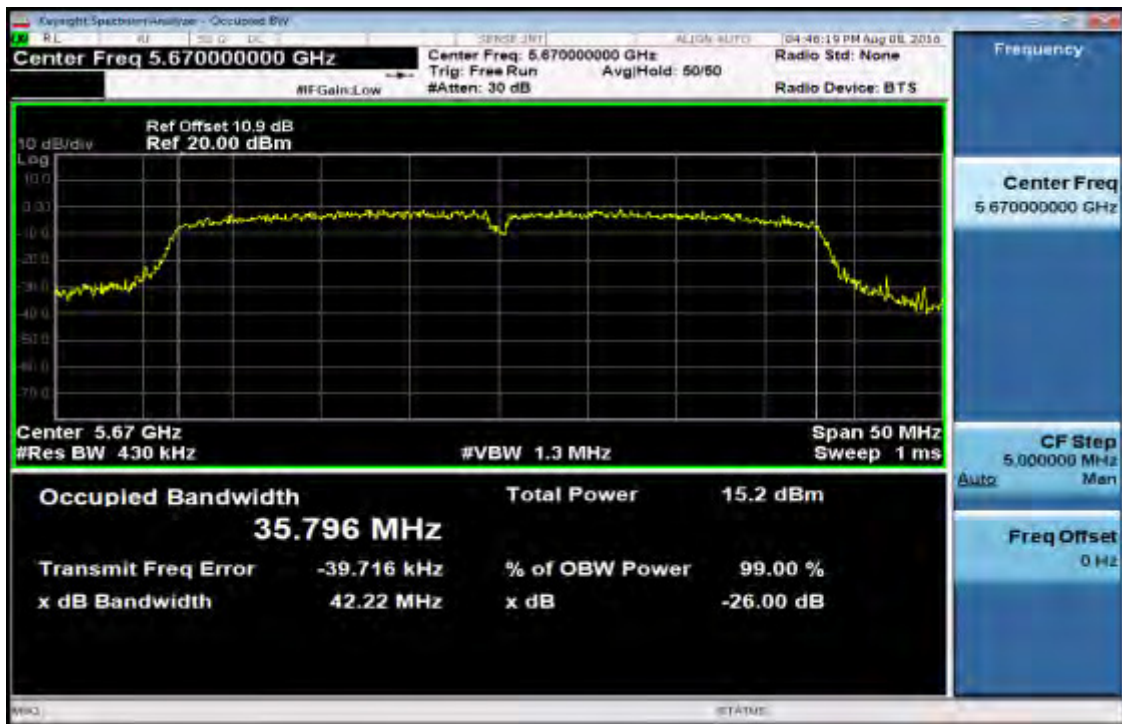
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### 26dB & 99% Band Width Test Data CH-High (5670 MHz)



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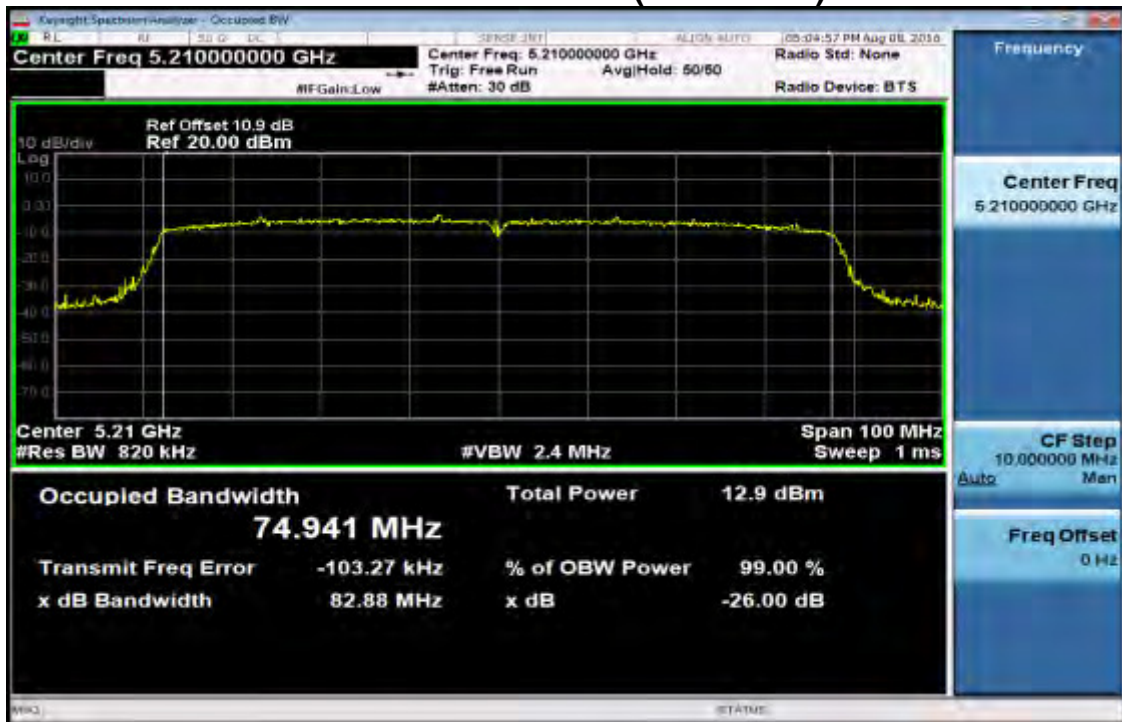
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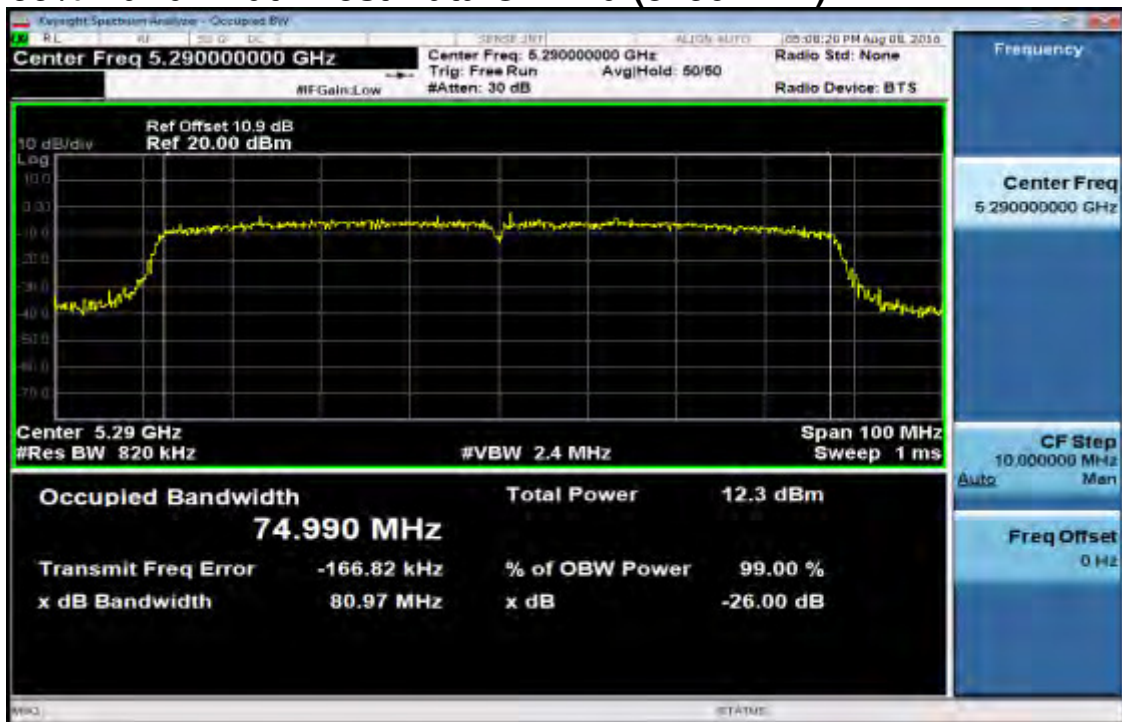
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**802.11ac VHT80, 5150~5250 MHz (Main)  
26dB & 99% Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz  
26dB & 99% Band Width Test Data CH-Mid (5290 MHz)**



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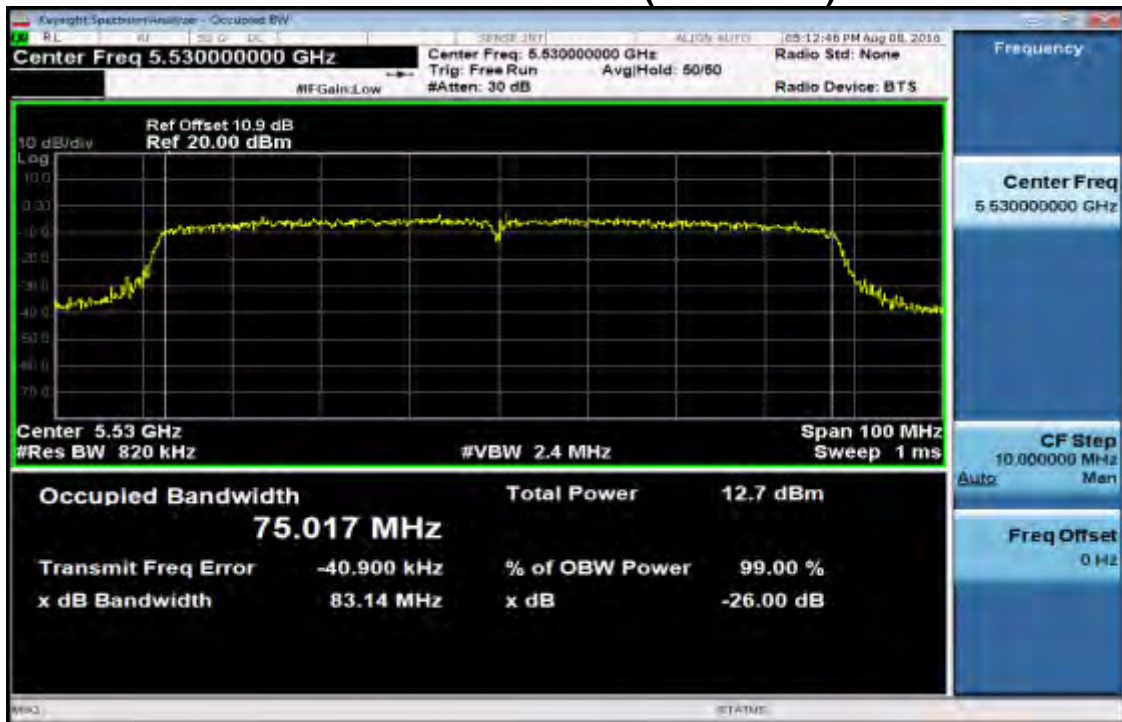
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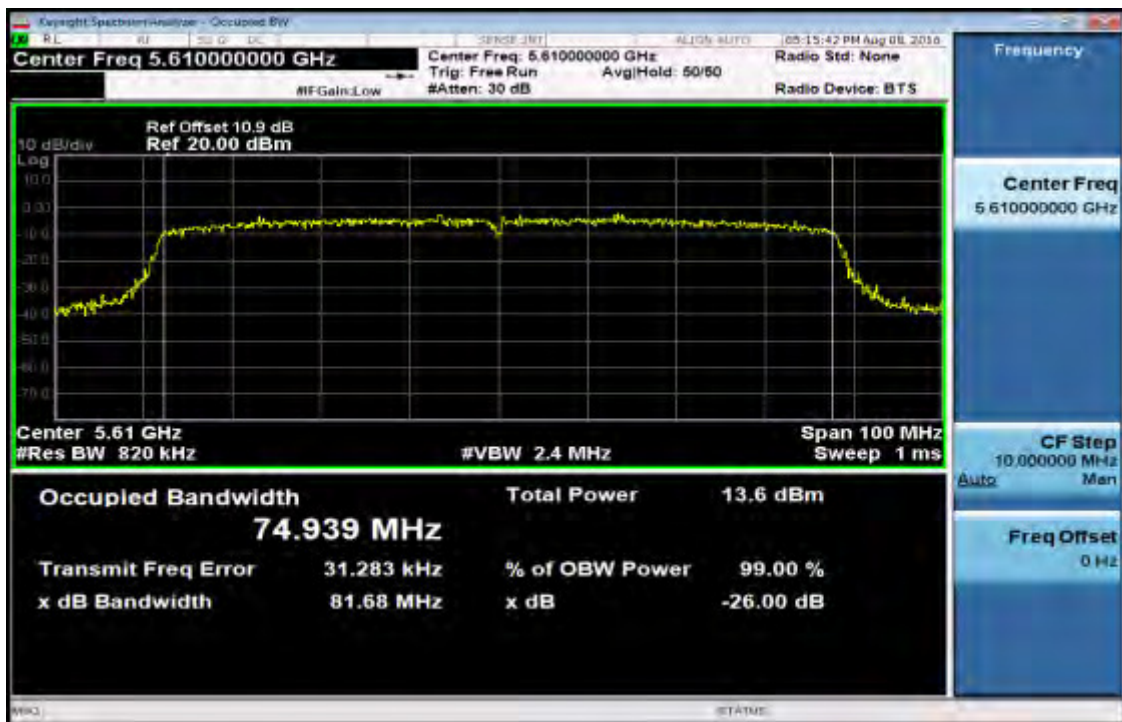
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**802.11ac VHT80, 5470~5725 MHz (Main)  
26dB & 99% Band Width Test Data CH-Low (5530 MHz)**



**26dB & 99% Band Width Test Data CH-High (5610 MHz)**



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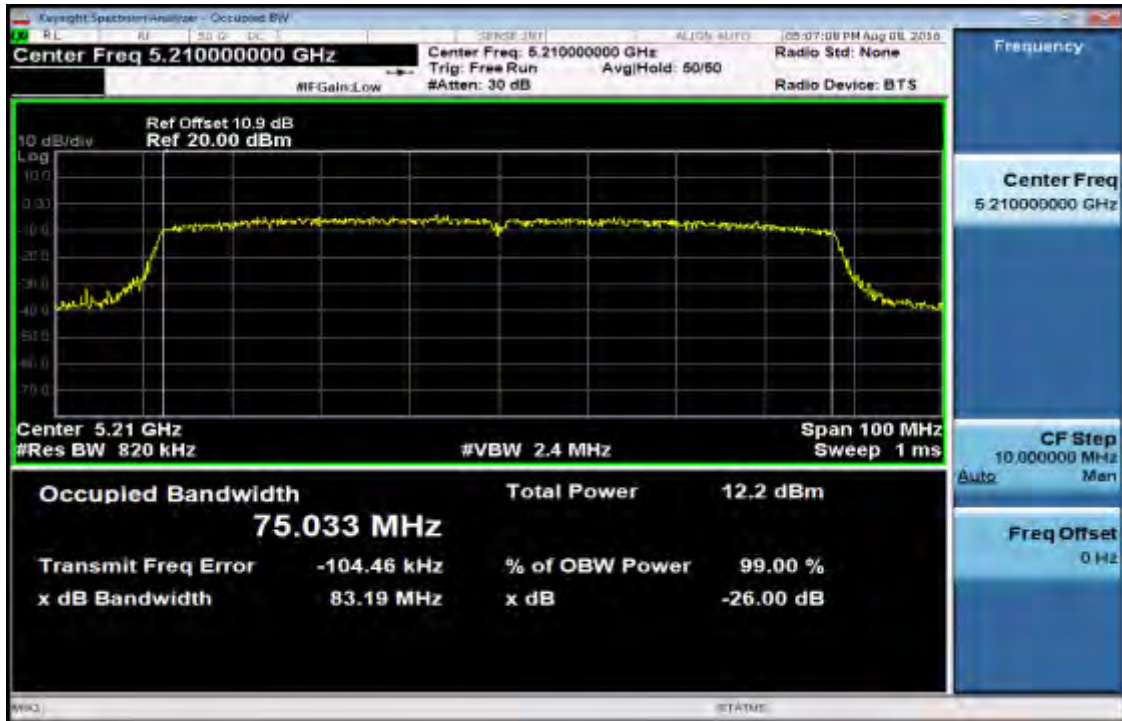
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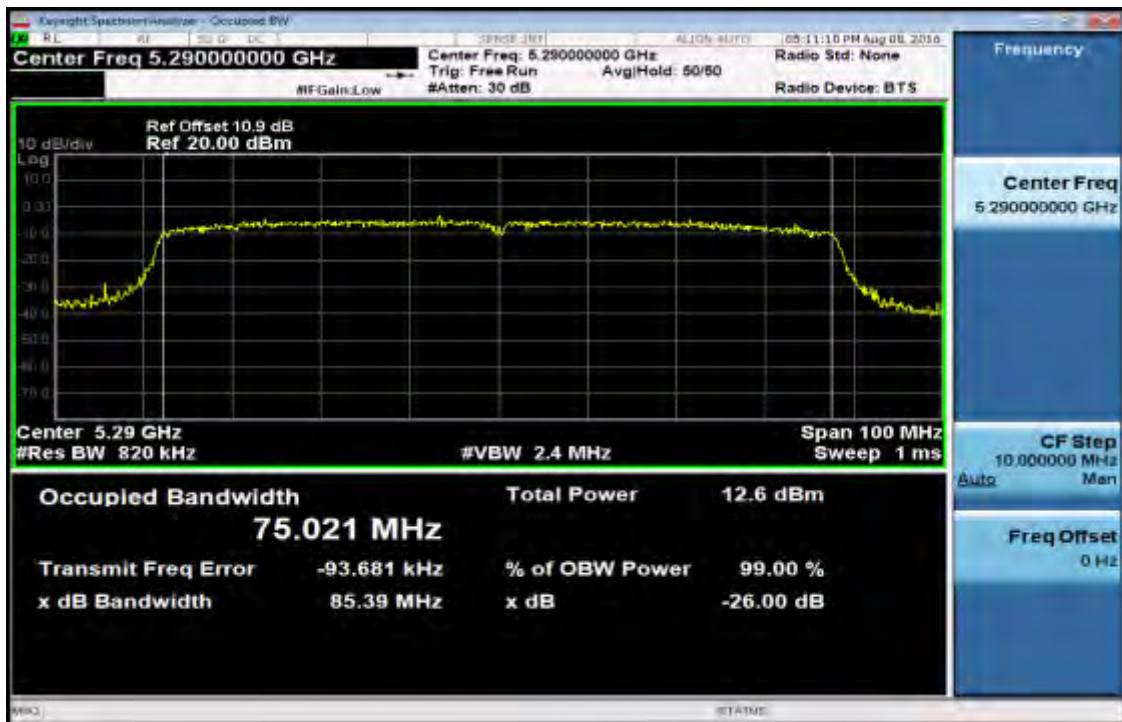
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**802.11ac VHT80, 5150~5250 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Mid (5210 MHz)**



**802.11ac VHT80, 5250~5350 MHz  
26dB & 99% Band Width Test Data CH-Mid (5290 MHz)**

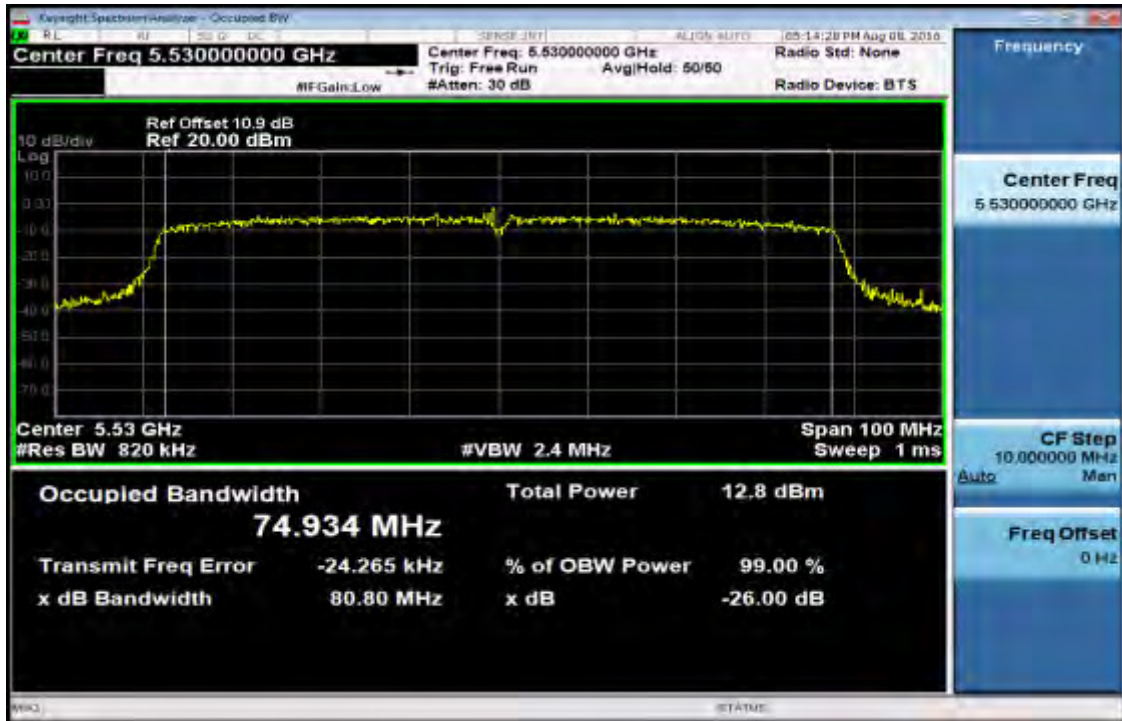


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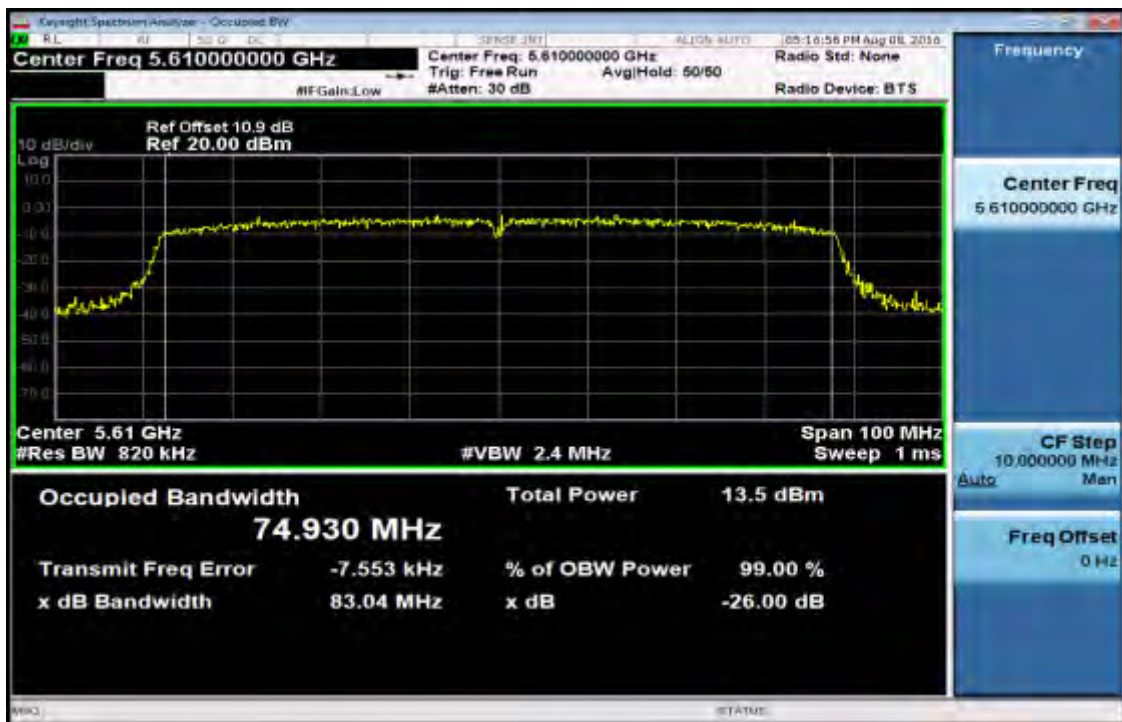
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**802.11ac VHT80, 5470~5725 MHz (Aux)  
26dB & 99% Band Width Test Data CH-Low (5530 MHz)**



**26dB & 99% Band Width Test Data CH-High (5610 MHz)**

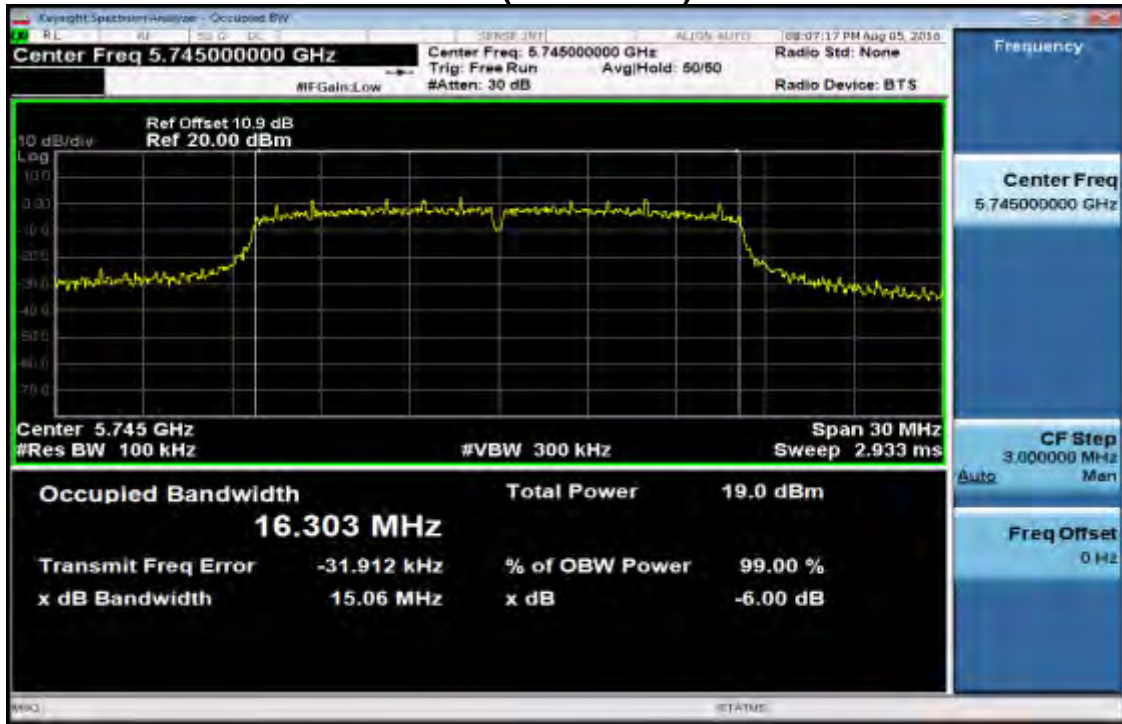


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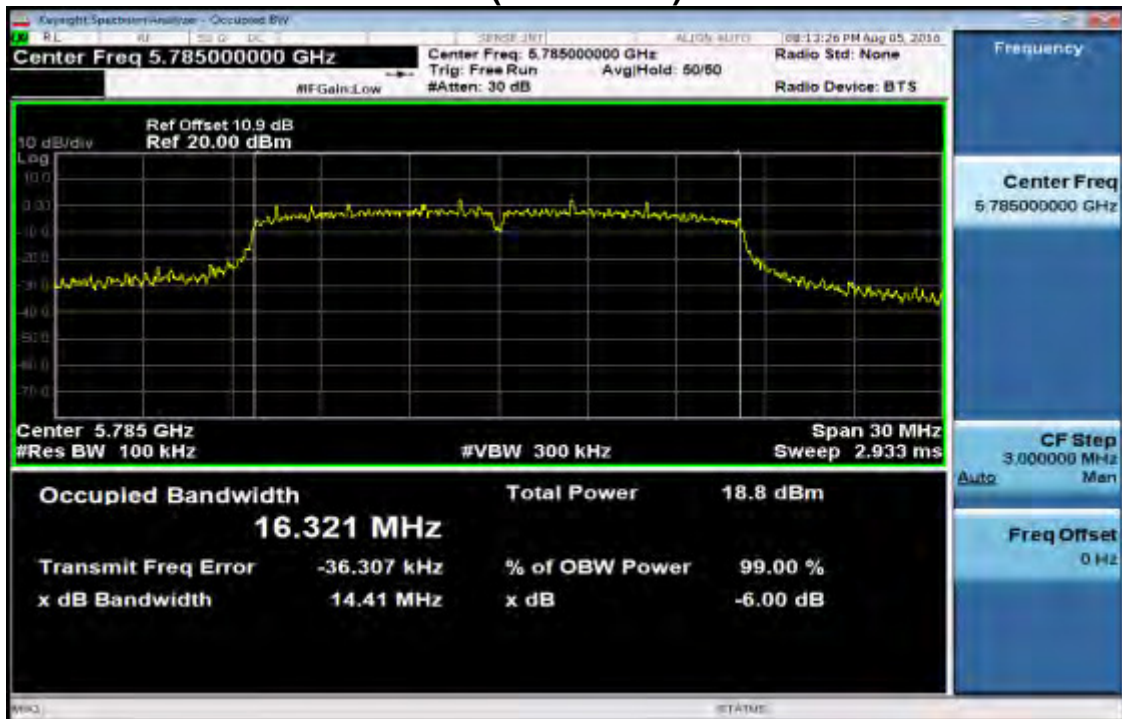
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6dB Band Width measure with Peak detector for FCC  
802.11a, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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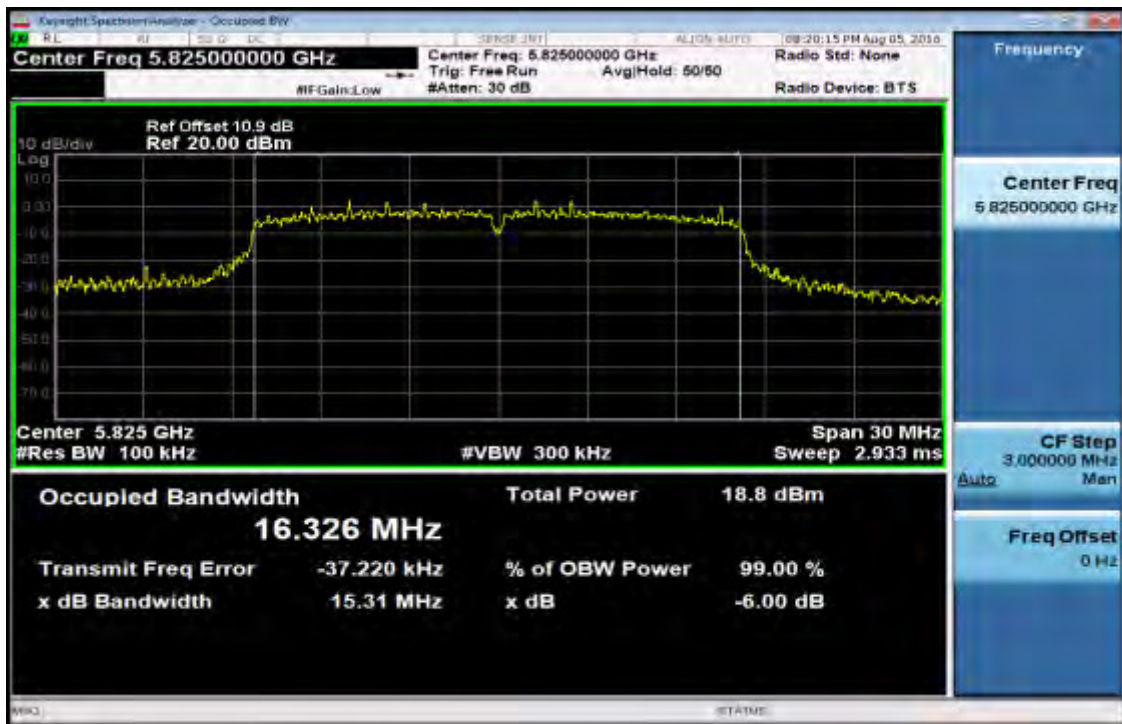
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### 6dB Band Width Test Data CH-High (5825 MHz)



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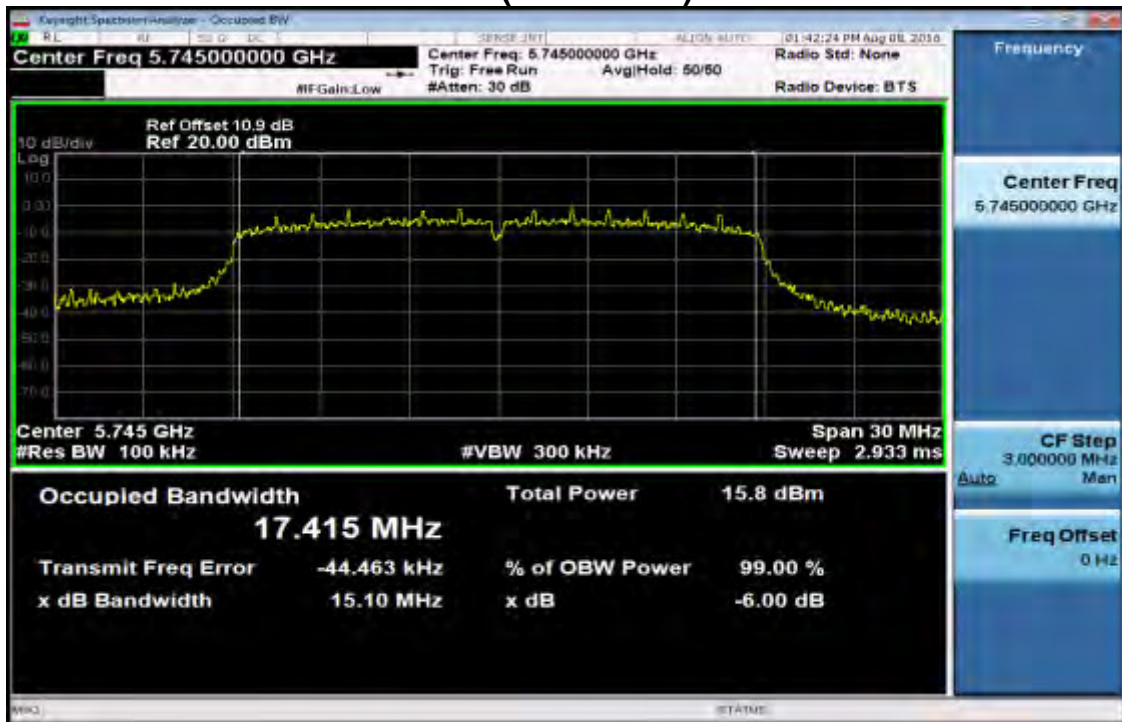
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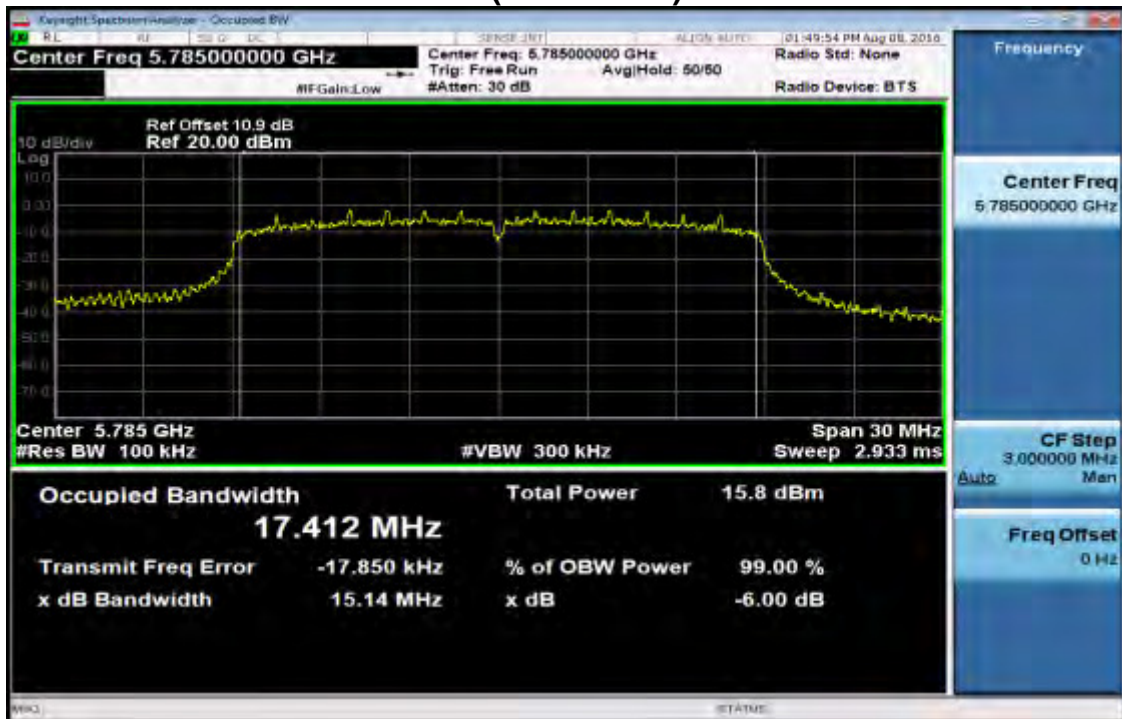
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802.11n\_HT20, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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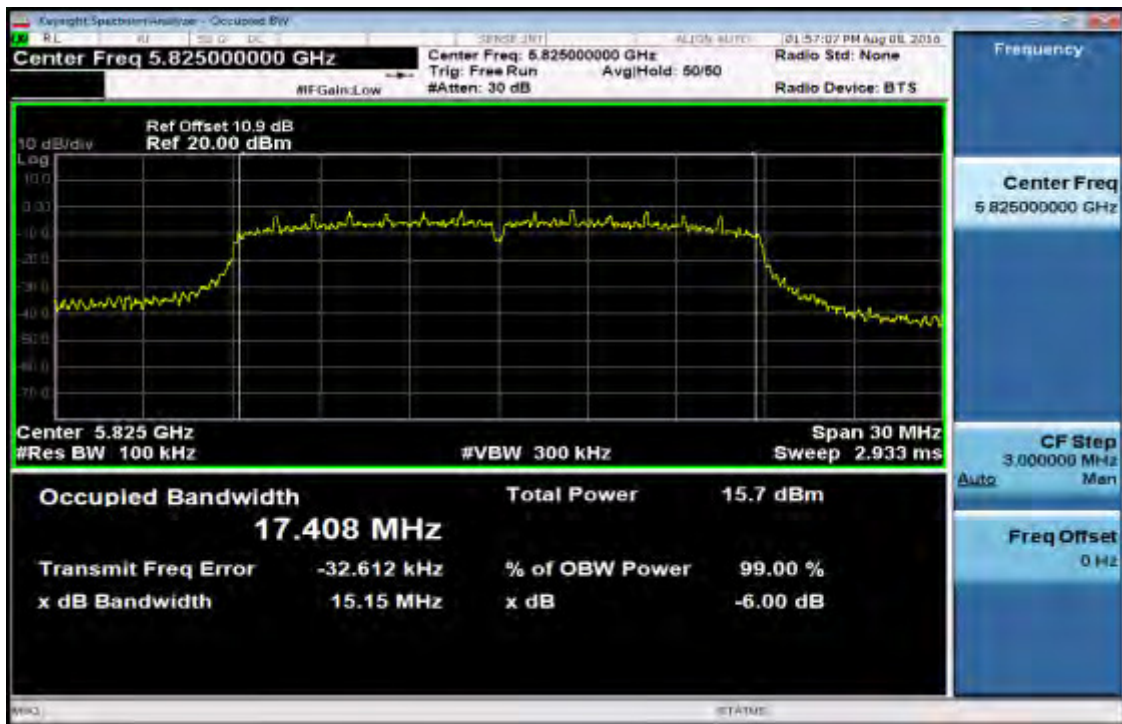
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### 6dB Band Width Test Data CH-High (5825 MHz)



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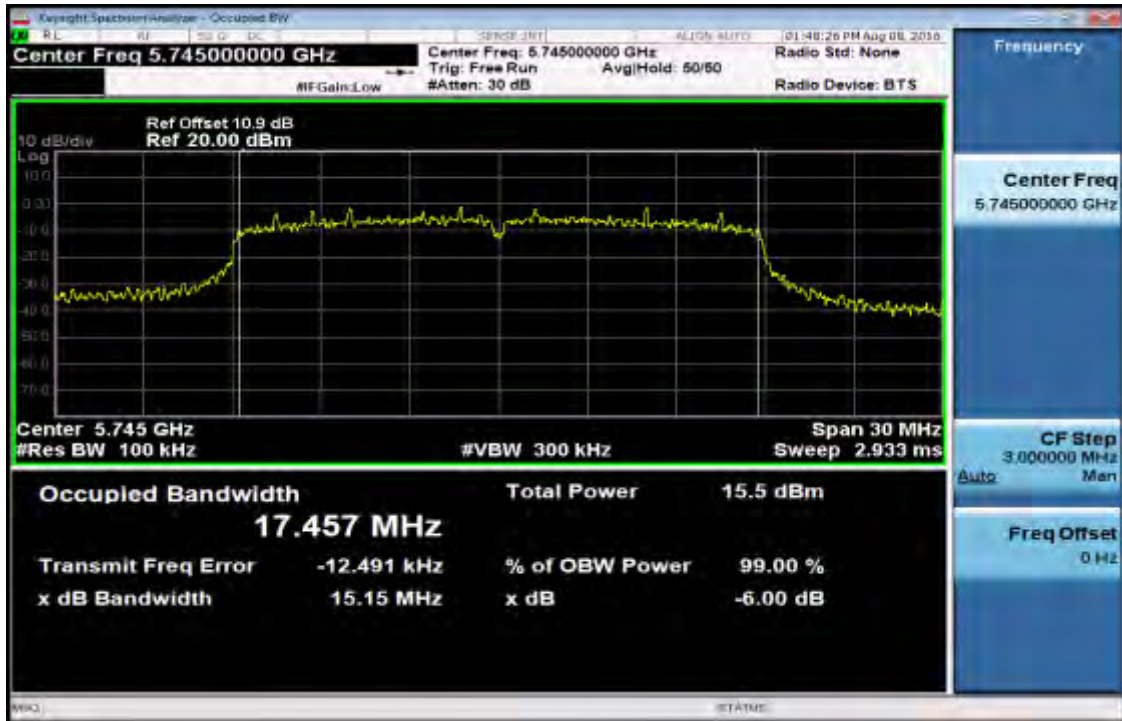
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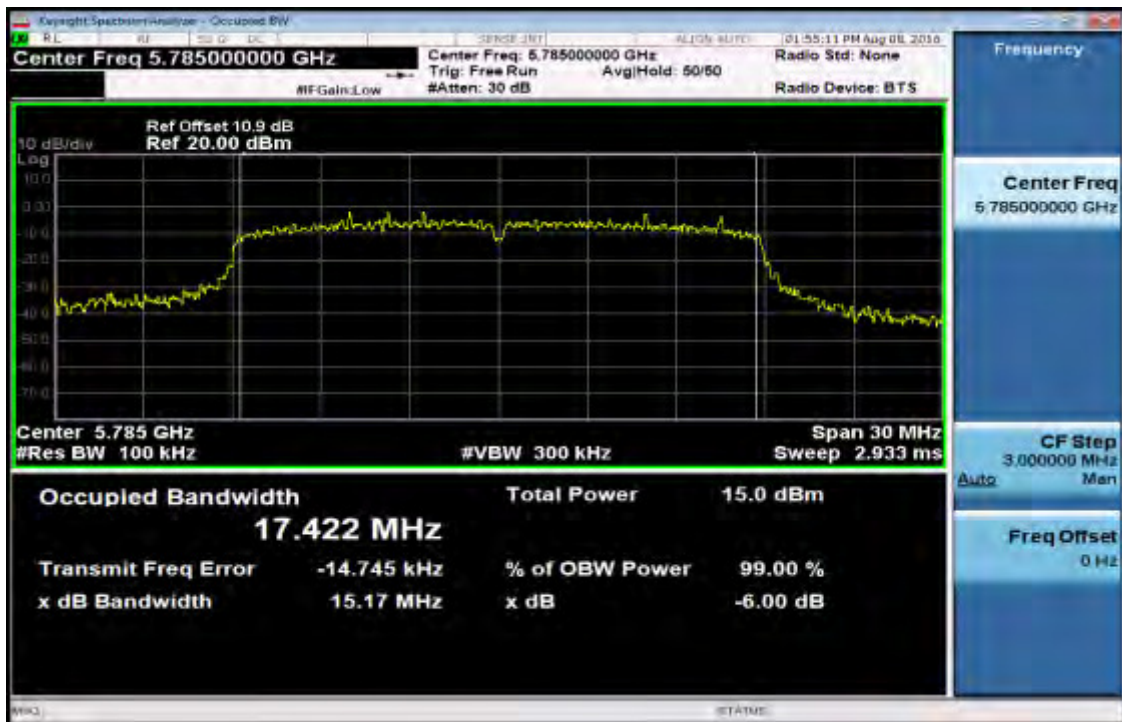
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802.11n\_HT20, 5725~5850 MHz (Aux)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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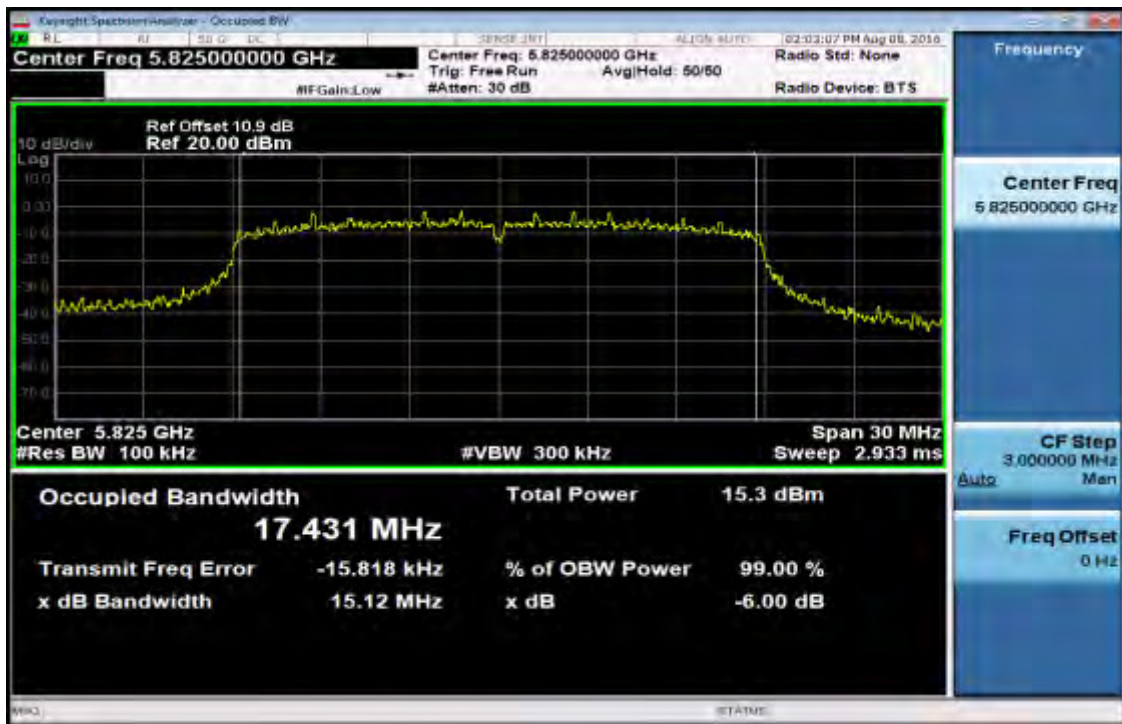
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### 6dB Band Width Test Data CH-High (5825 MHz)



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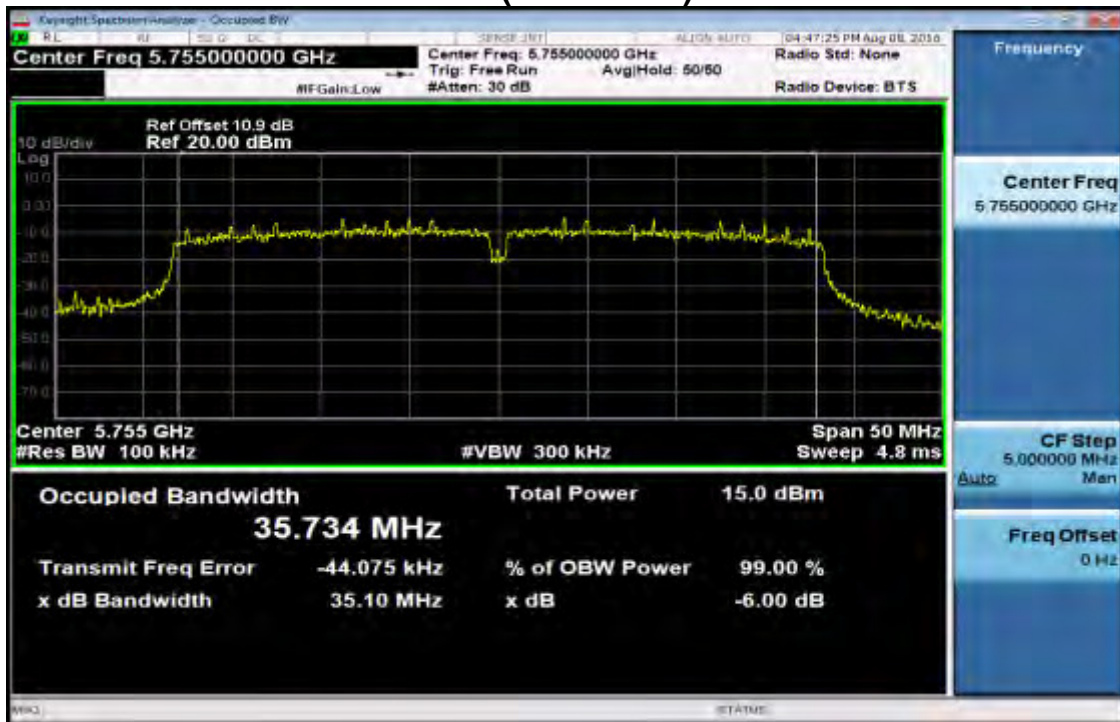
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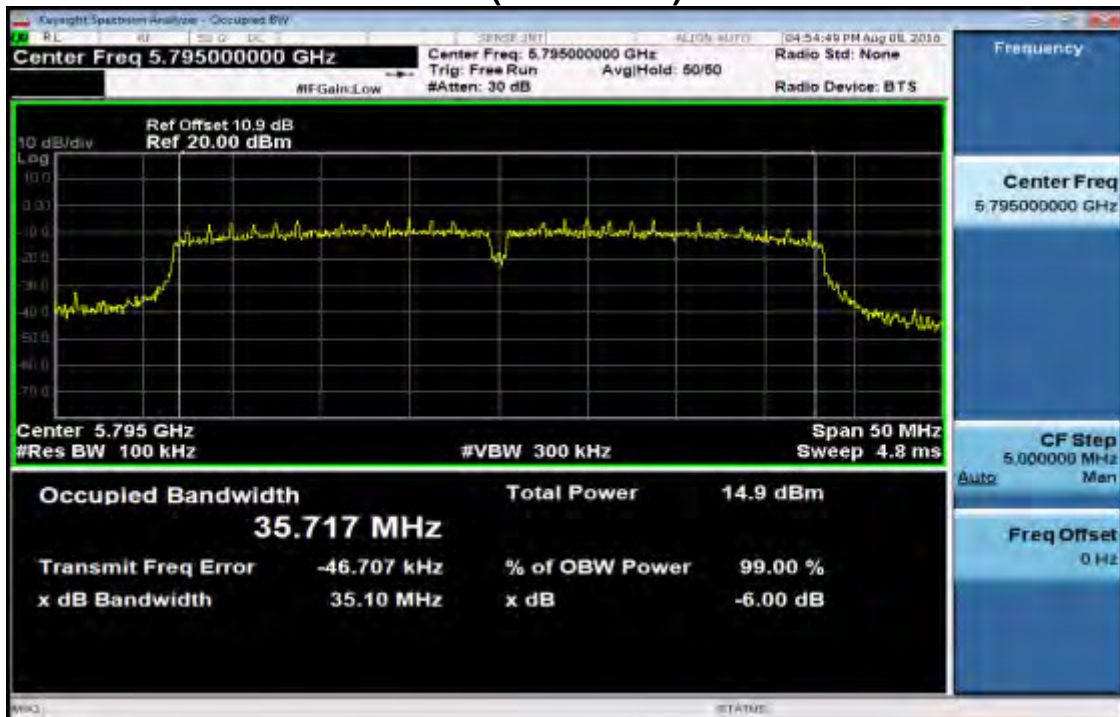
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802.11n\_HT40, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5755 MHz)



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



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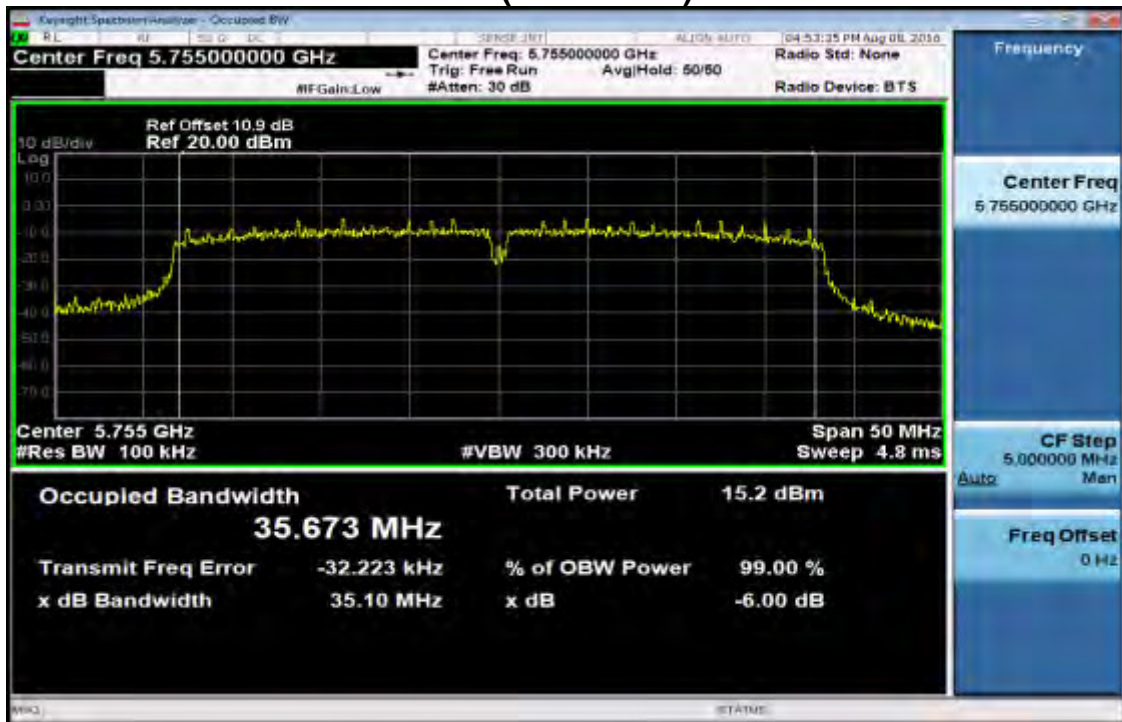
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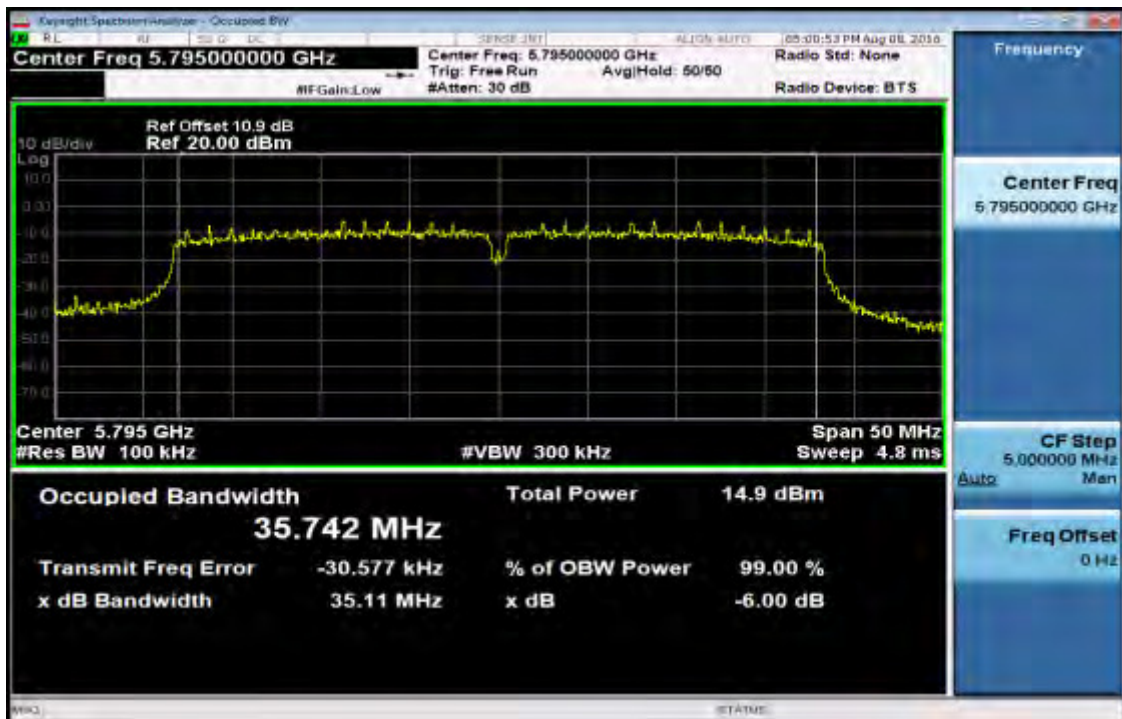
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802.11n\_HT40, 5725~5850 MHz (Aux)  
6dB Band Width Test Data CH-Low (5755 MHz)



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



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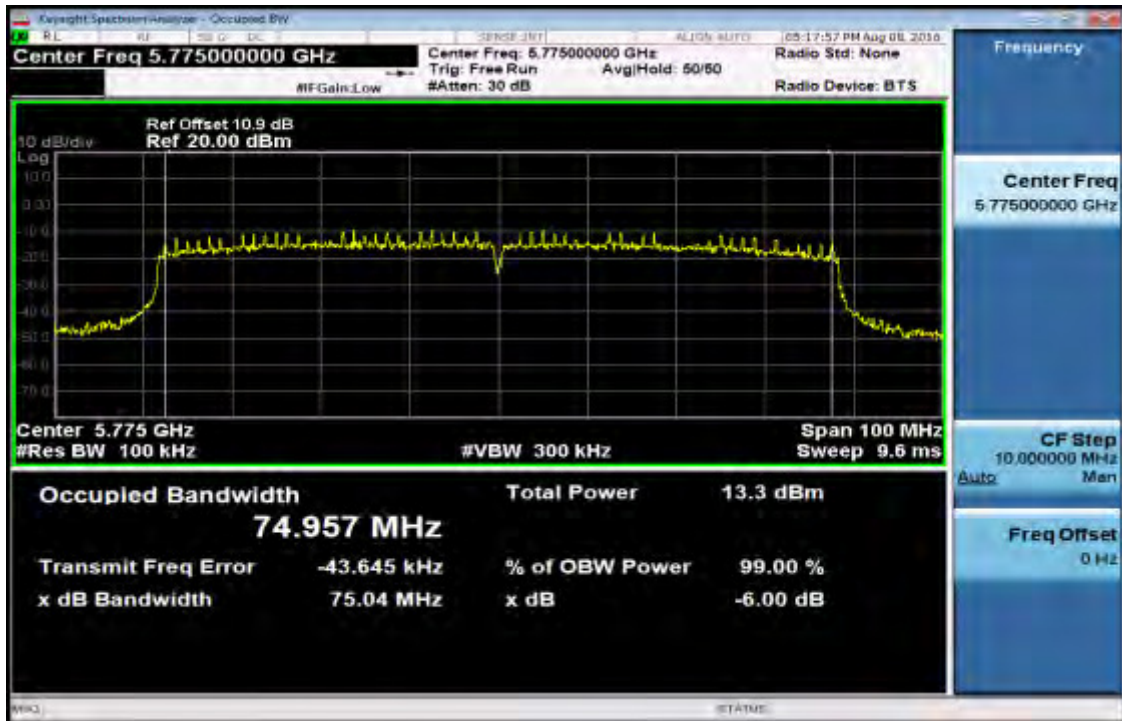
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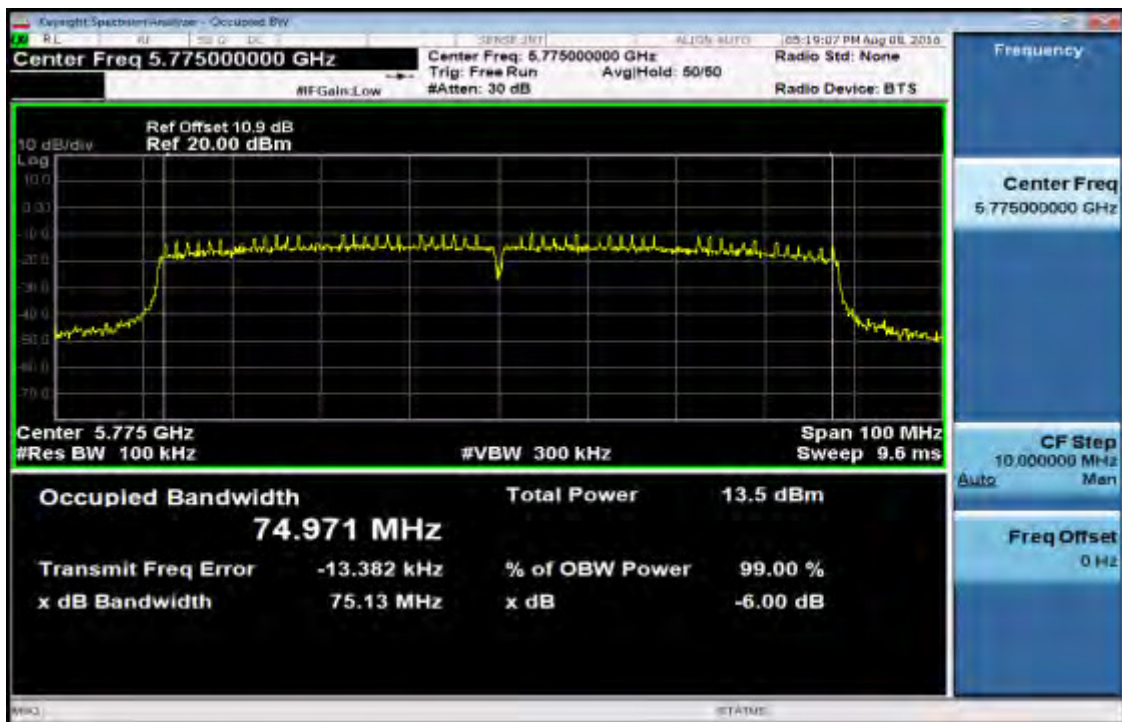
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**802.11ac VHT80, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data CH-Low (5775 MHz)**



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

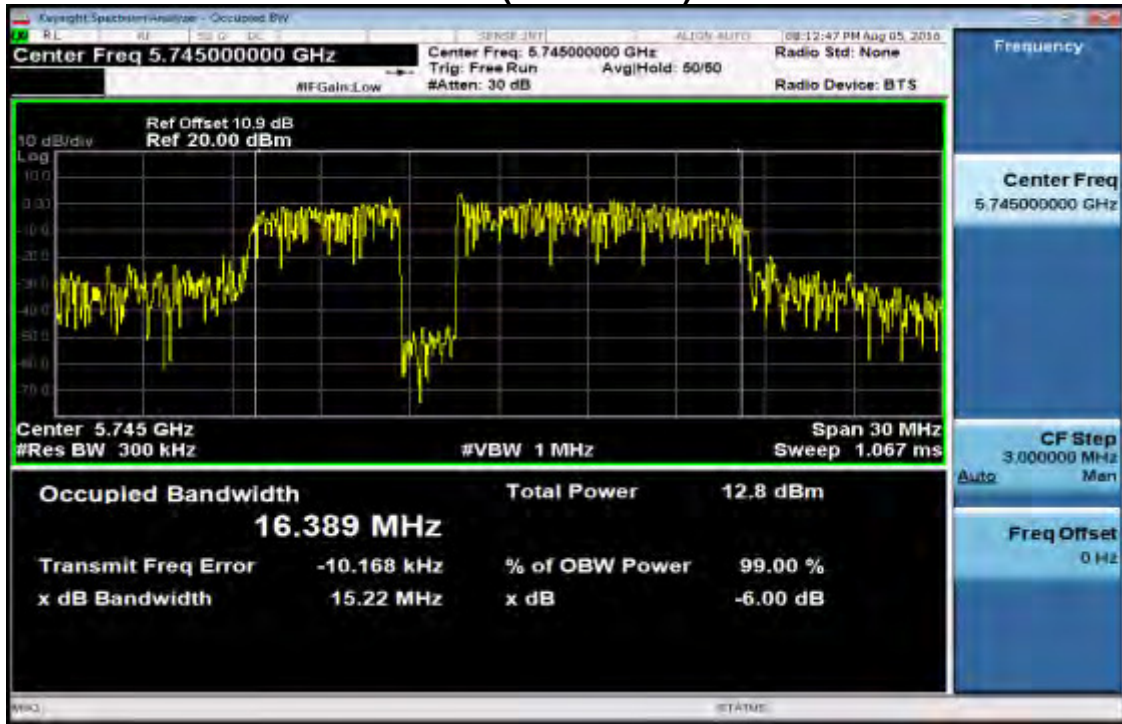


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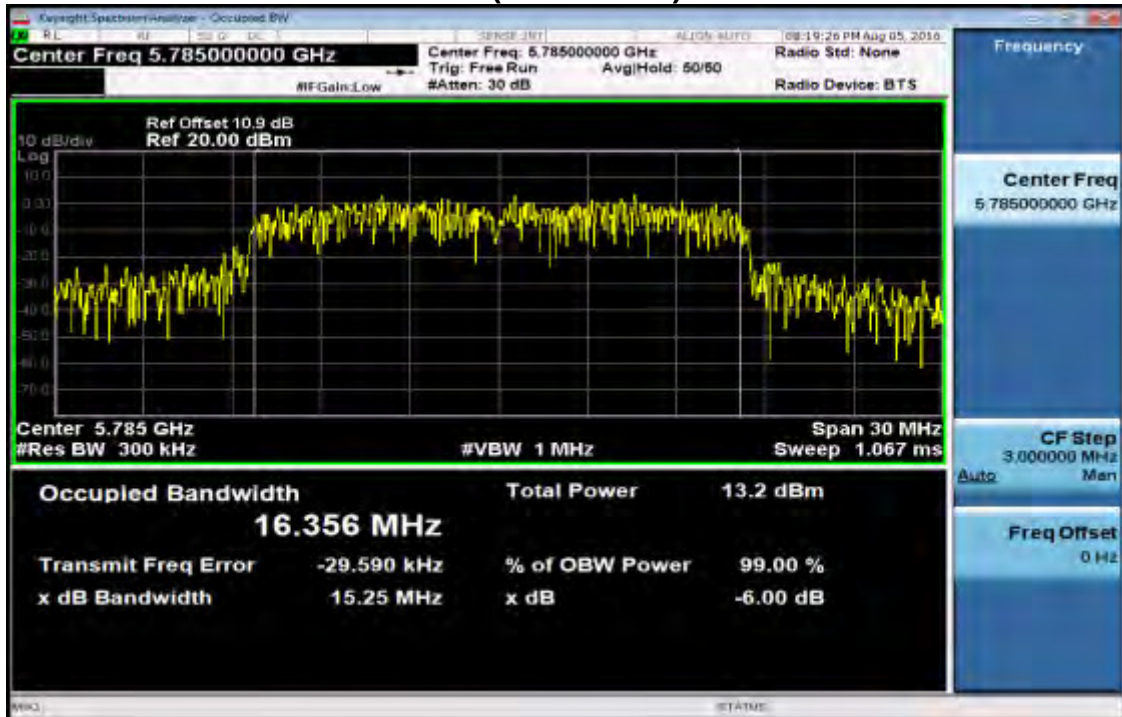
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**6dB Band Width measure with Average detector for IC  
802.11a, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)**



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



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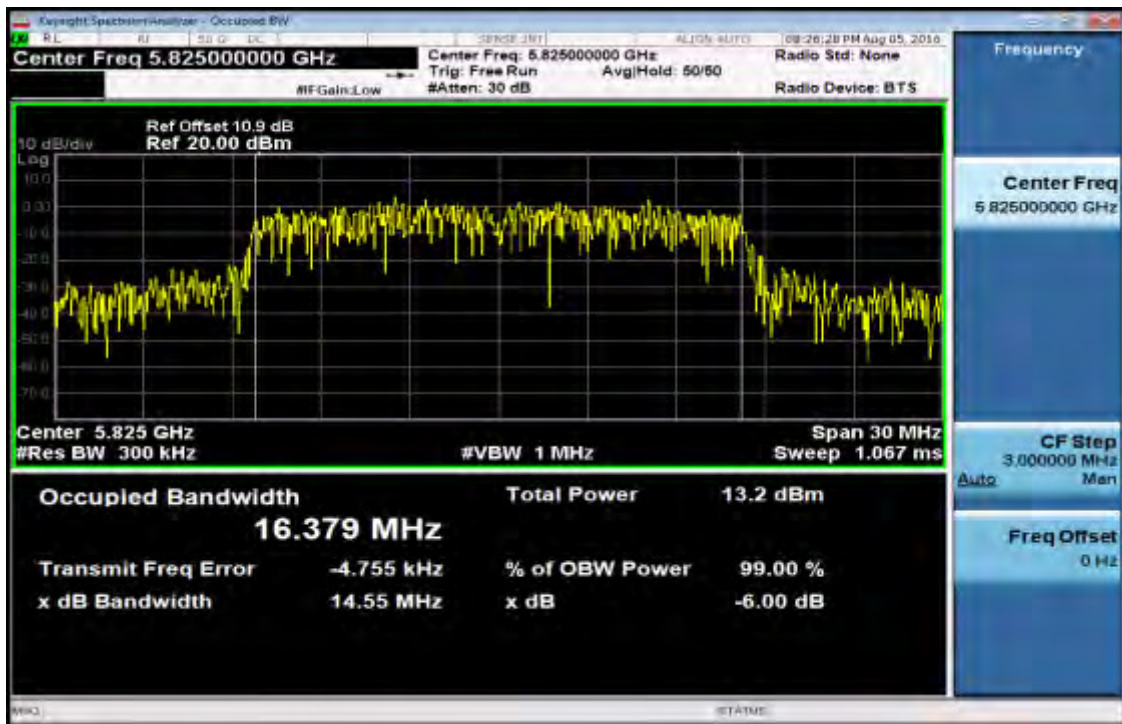
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### 6dB Band Width Test Data CH-High (5825 MHz)



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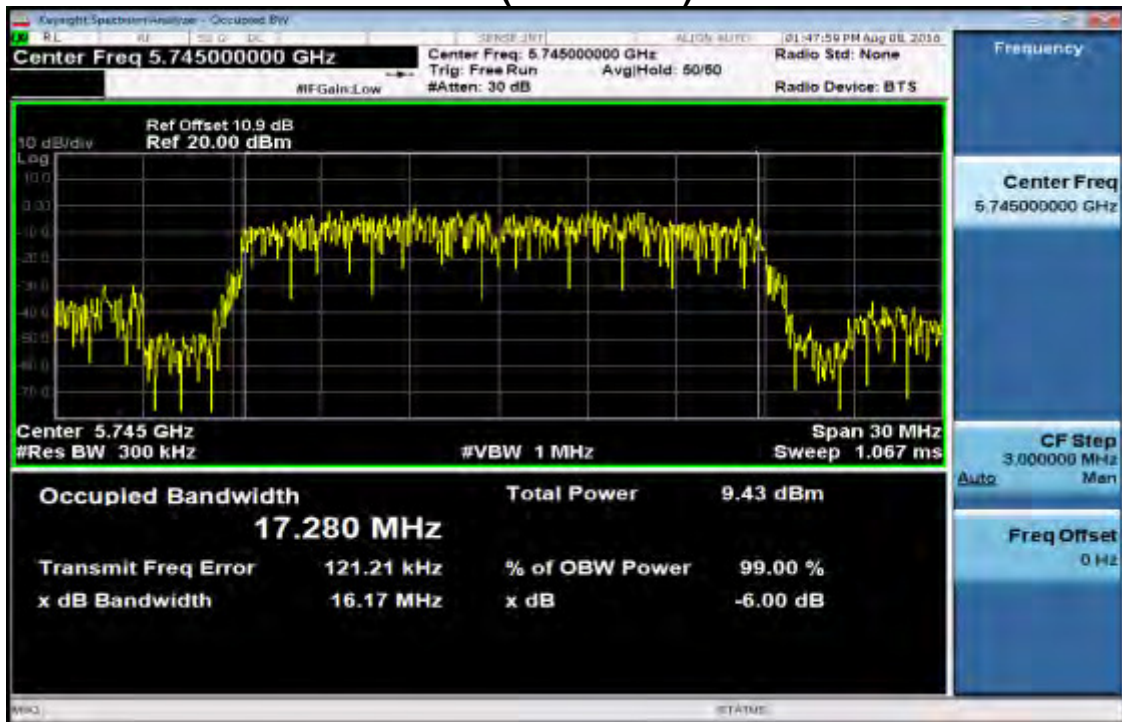
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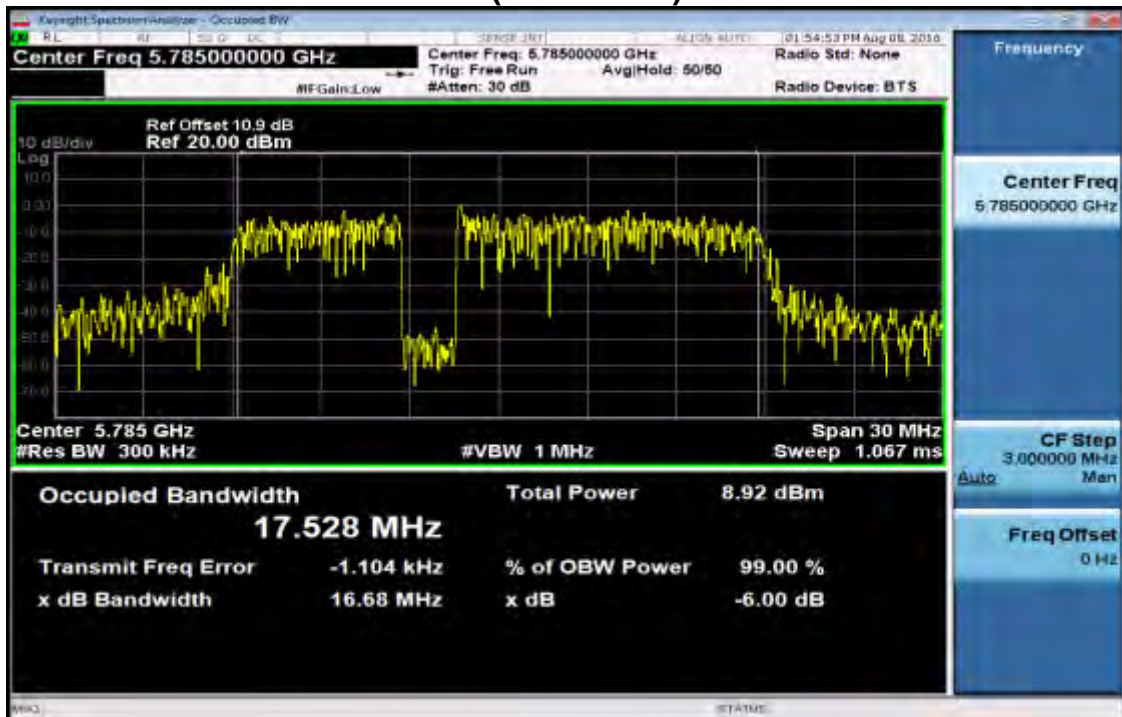
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802.11n\_HT20, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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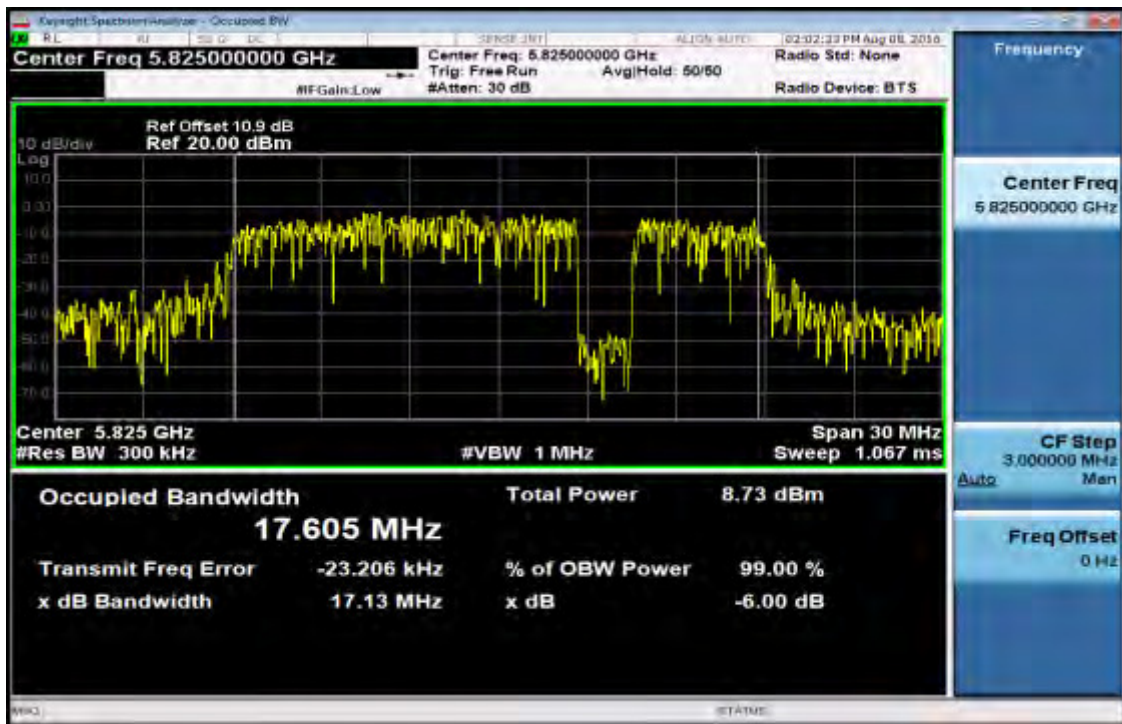
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### 6dB Band Width Test Data CH-High (5825 MHz)



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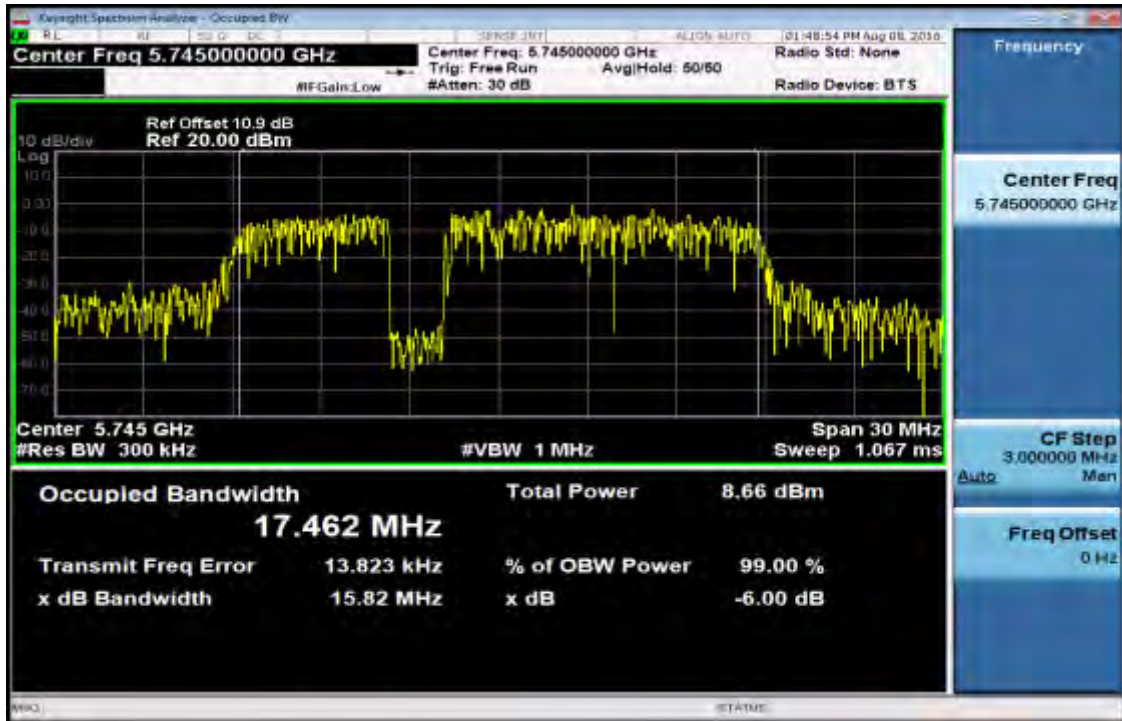
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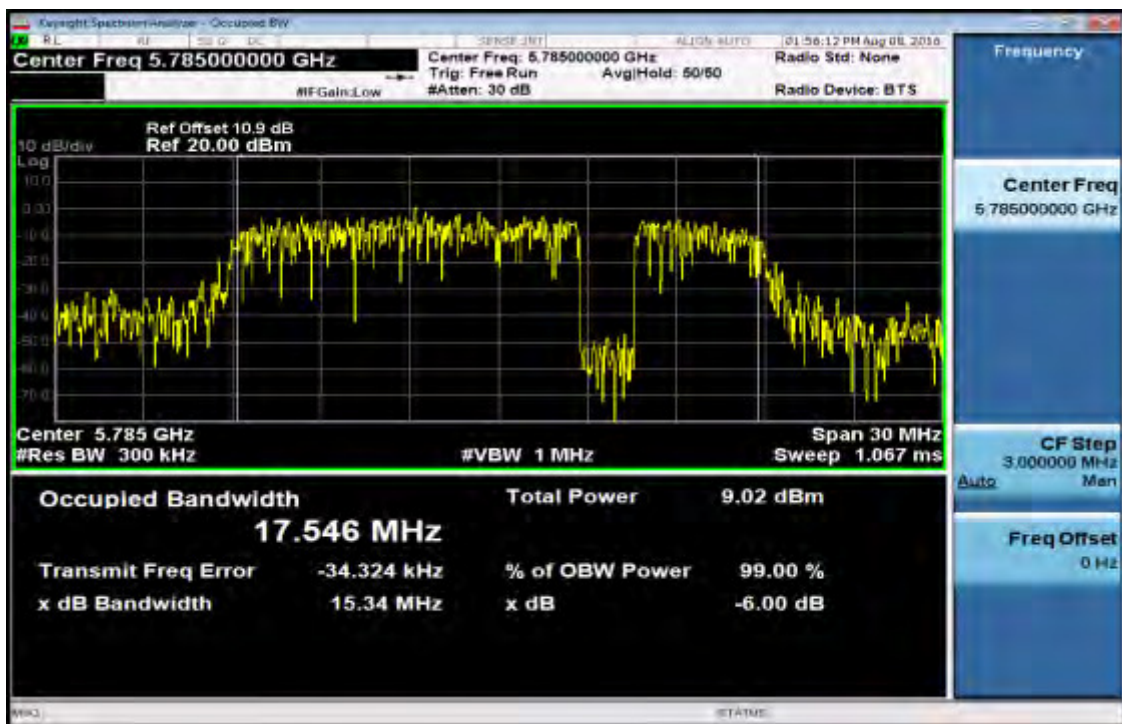
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802.11n\_HT20, 5725~5850 MHz (Aux)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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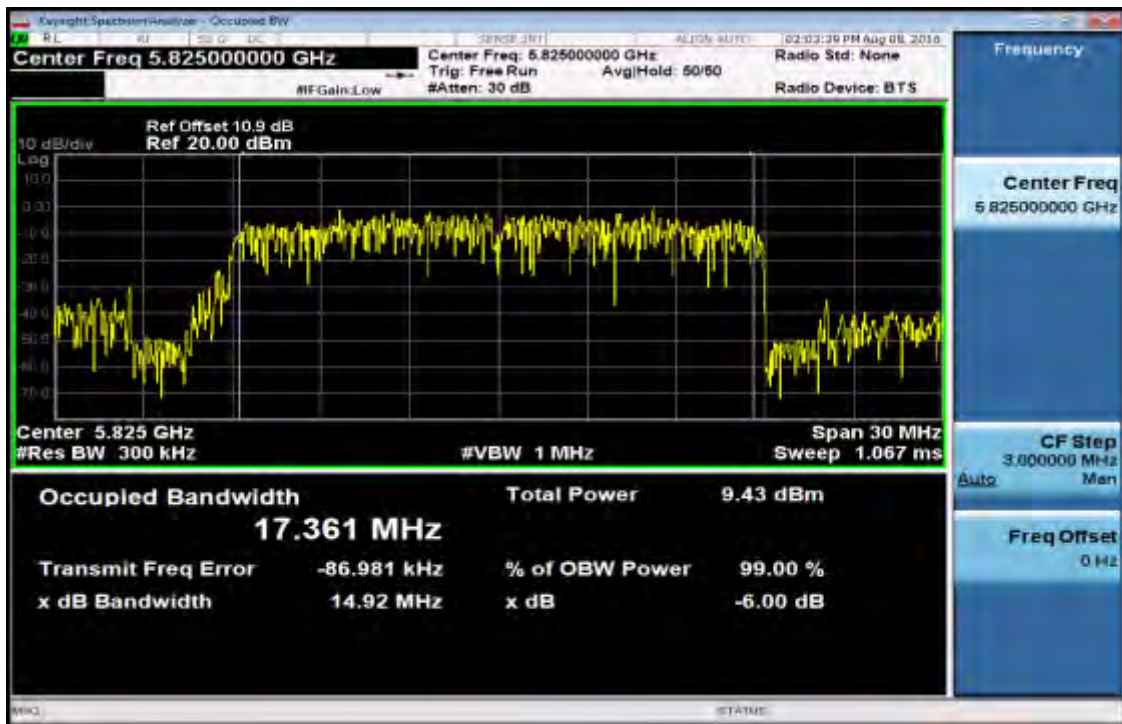
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### 6dB Band Width Test Data CH-High (5825 MHz)



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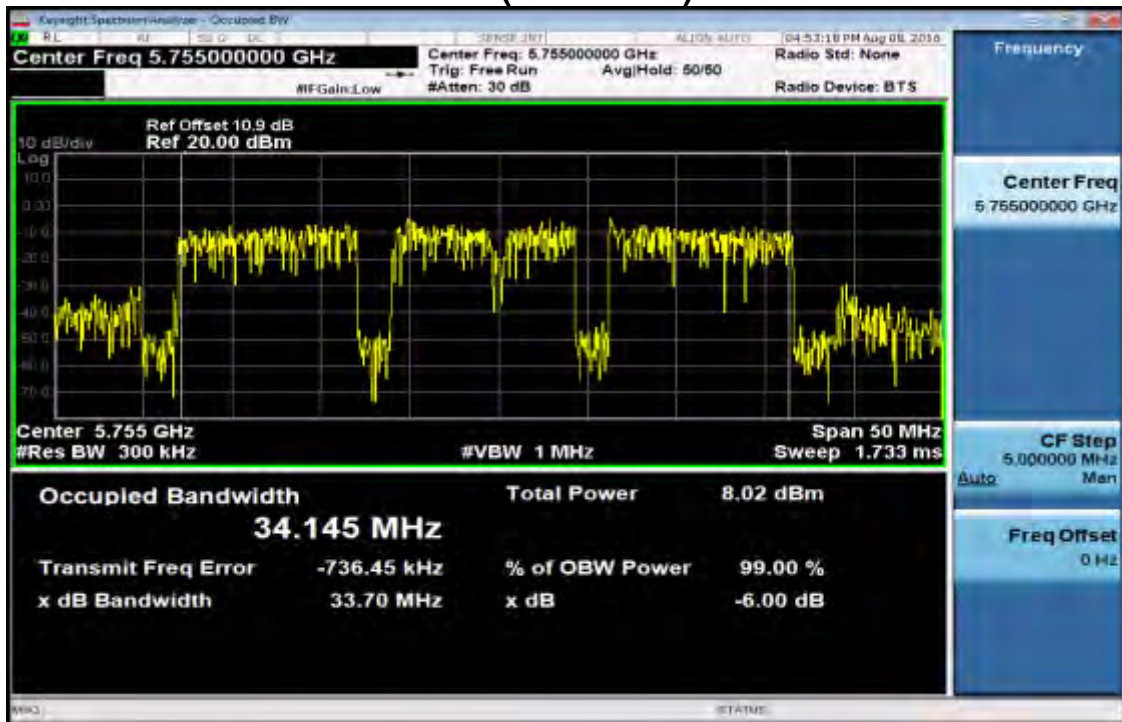
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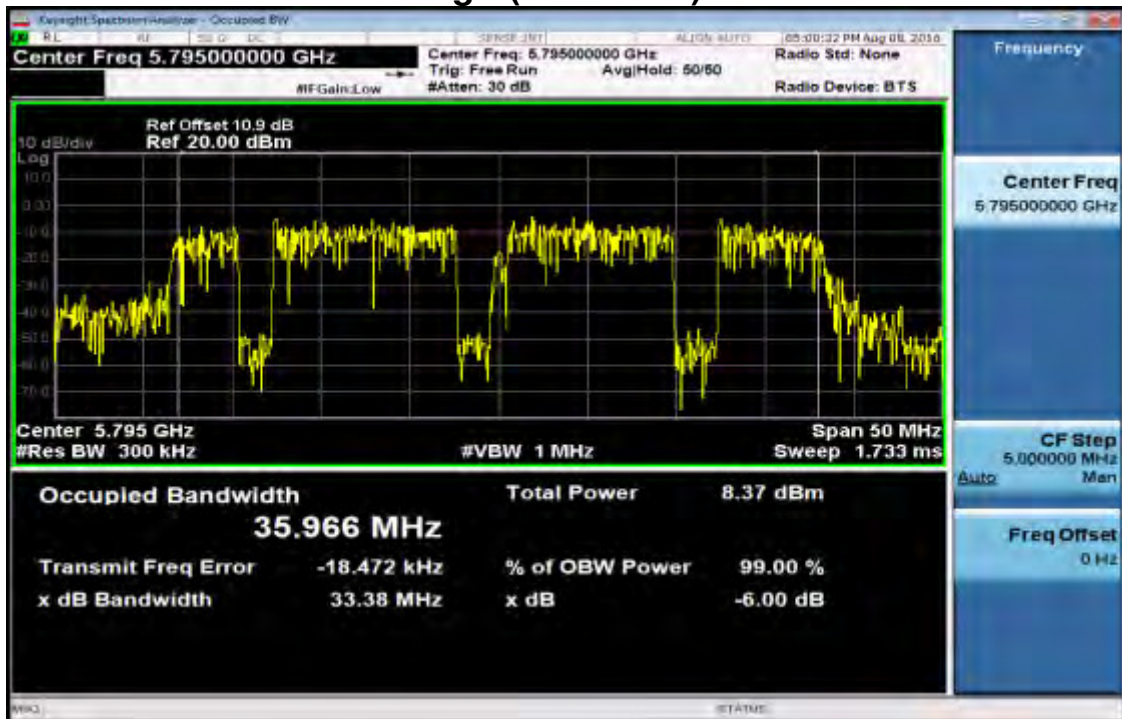
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802.11n\_HT40, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5755 MHz)



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



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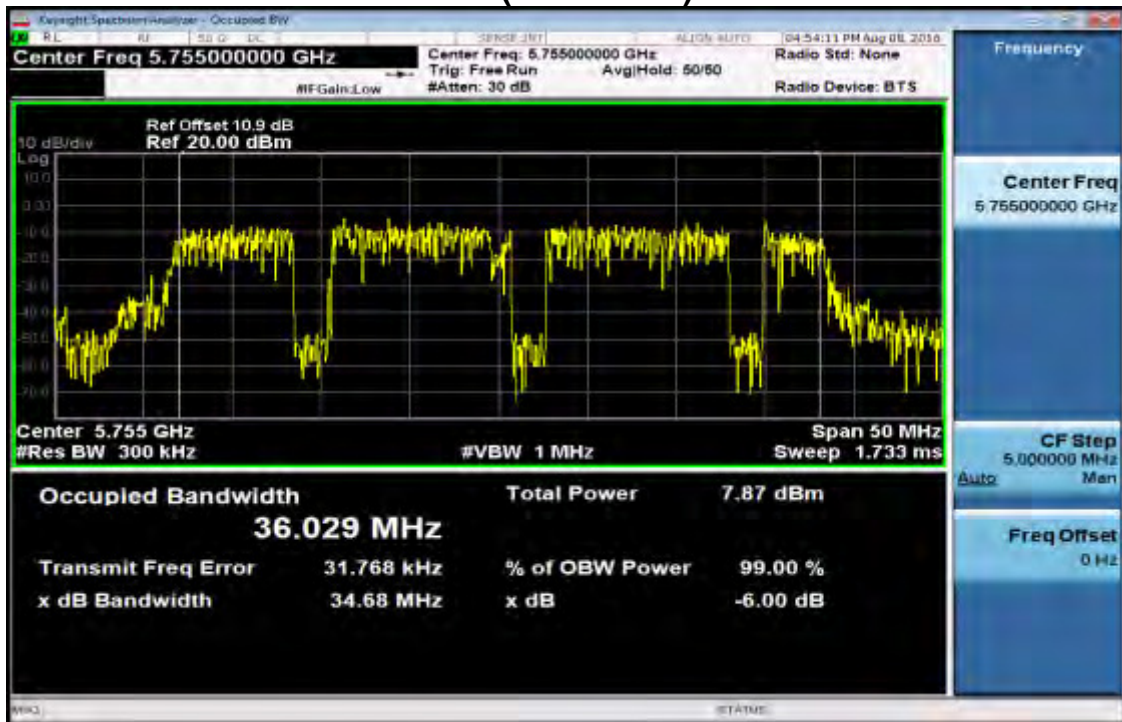
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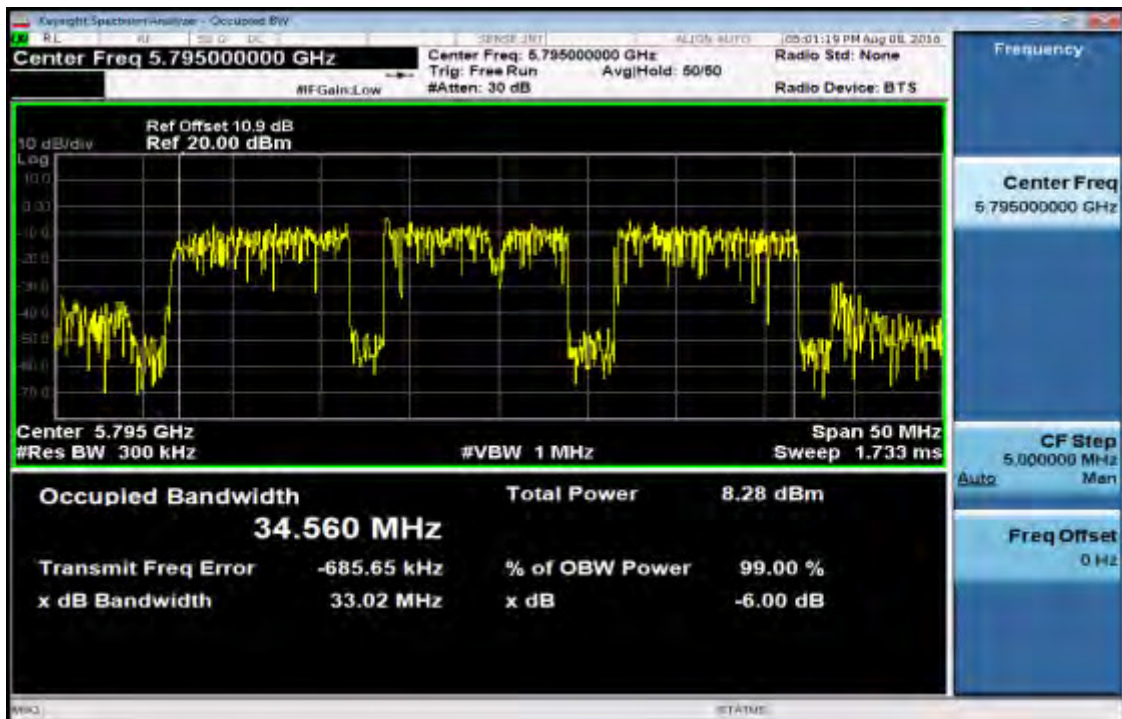
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802.11n\_HT40, 5725~5850 MHz (Aux)  
6dB Band Width Test Data CH-Low (5755 MHz)



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



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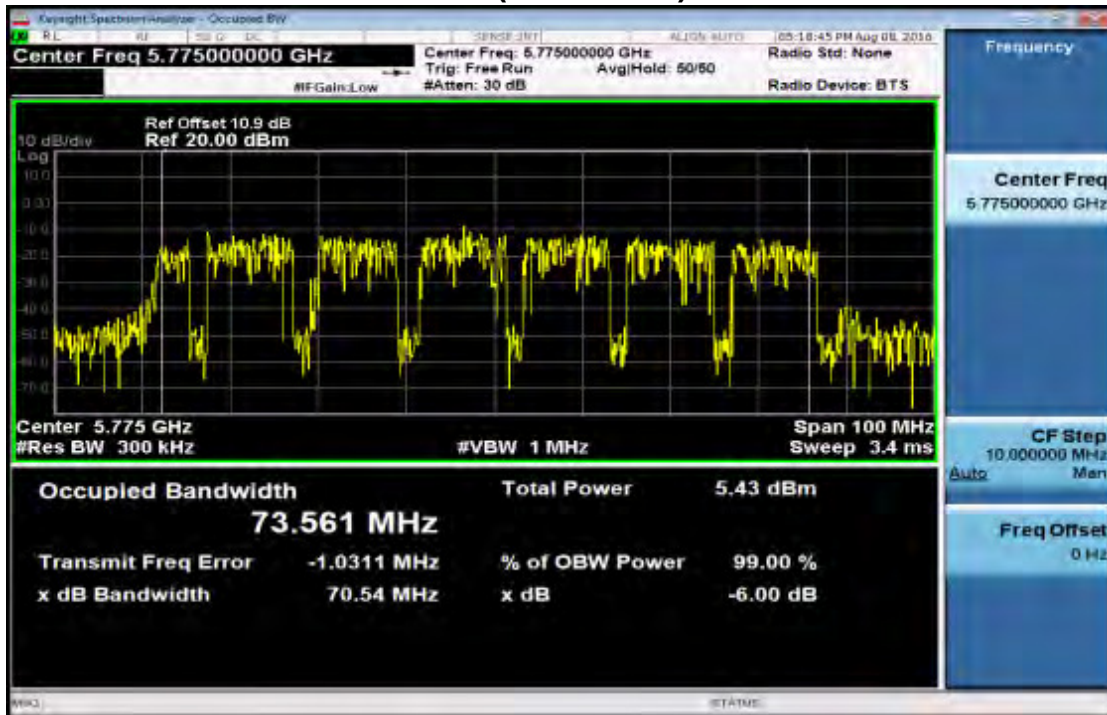
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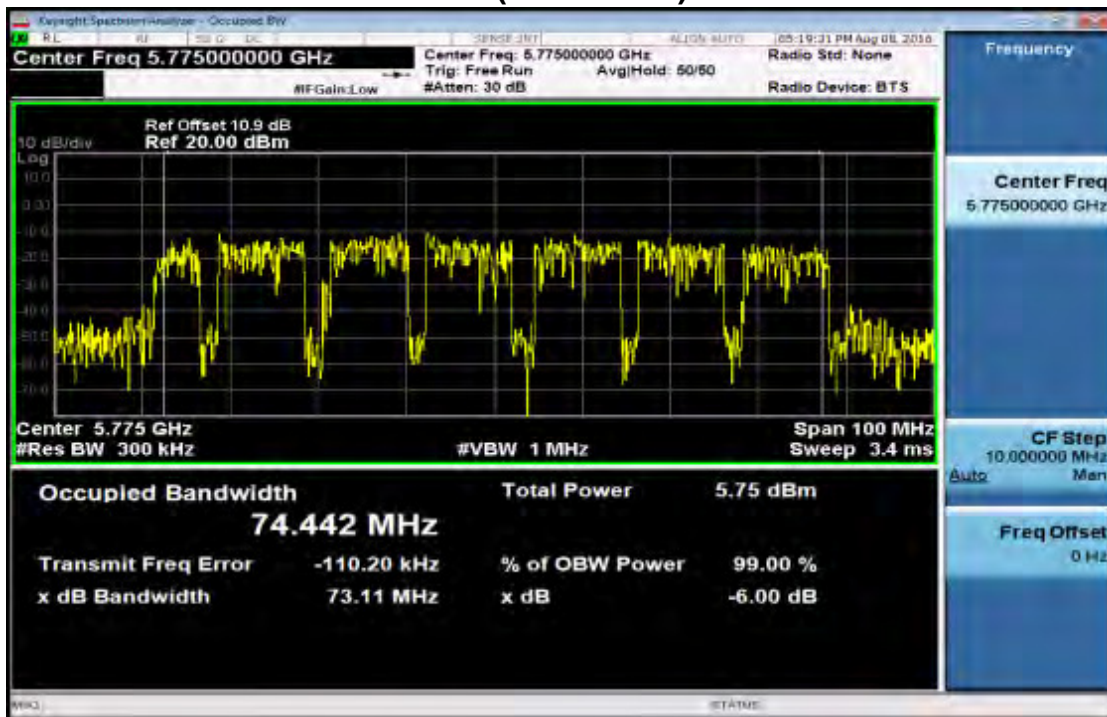
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802.11ac VHT80, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5775 MHz)



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



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

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

#### IC

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP shall not exceed 200 mW or 10 + 10 log <sub>10</sub> B, dBm
5250~5350 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm
5470-5600 MHz and 5650-5725 MHz	Conducted output power shall not exceed 250 mW or 11 +10 log <sub>10</sub> B EIRP shall not exceed 1.0 W or 17 + 10 log <sub>10</sub> B, dBm
5725~5850 MHz	Conducted output power shall not exceed 1 W

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

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The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

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

### FCC

	Effective Legacy Gain (dBi)	Limit
<b>UNII-1</b>	5.35+3.01=8.36dBi	23.98dBm – (8.36– 6 dBi) = 21.62dBm
<b>UNII-2A</b>	5.35+3.01=8.36dBi	23.98dBm – (8.36– 6 dBi) = 21.62dBm
<b>U-NII-2C</b>	4.05+3.01=7.06dBi	23.98dBm – (7.06– 6 dBi) = 22.92dBm
<b>U-NII-3</b>	4.57+3.01=7.58dBi	30 dBm – (7.58– 6 dBi) = 28.42dBm

### IC

	Effective Legacy Gain (dBi)	Limit
<b>UNII-2A</b>	5.35+3.01=8.36dBi	23.98dBm – (8.36– 6 dBi) = 21.62dBm
<b>U-NII-2C</b>	4.05+3.01=7.06dBi	23.98dBm – (7.06– 6 dBi) = 22.92dBm
<b>U-NII-3</b>	4.57+3.01=7.58dBi	30 dBm – (7.58– 6 dBi) = 28.42dBm

Therefore the limit needs to reduce for the UNII-1, U-NII-2A, U-NII-2C and U-NII-3 band.

## 9.2 Measurement Procedure

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

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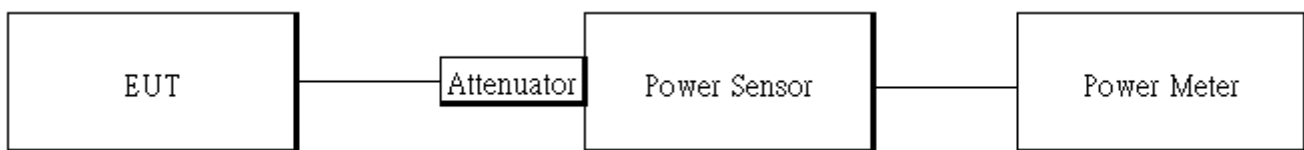
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### 9.3 Measurement Equipment Used

Refer to section 8.3 for details.

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

### 9.4 Test Set-up



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## 9.5 Measurement Result

### FCC

#### 802.11a Main

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	<b>13.98</b>	<b>25.003</b>	23.98	PASS
44	5220	MCS0	13.96	24.889	23.98	PASS
48	5240	MCS0	13.92	24.660	23.98	PASS
52	5260	MCS0	13.76	23.768	23.98 or $11+10\log(B) = 24.54$	PASS
60	5300	MCS0	<b>13.78</b>	<b>23.878</b>	23.98 or $11+10\log(B) = 23.92$	PASS
64	5320	MCS0	13.70	23.442	23.98 or $11+10\log(B) = 24.01$	PASS
100	5500	MCS0	11.49	14.093	23.98 or $11+10\log(B) = 23.84$	PASS
116	5580	MCS0	<b>13.71</b>	<b>23.496</b>	23.98 or $11+10\log(B) = 23.89$	PASS
140	5700	MCS0	12.33	17.100	23.98 or $11+10\log(B) = 23.79$	PASS
149	5745	MCS0	13.94	24.774	30	PASS
157	5785	MCS0	<b>13.98</b>	<b>25.003</b>	30	PASS
165	5825	MCS0	13.86	24.322	30	PASS

#### 802.11n\_HT20\_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.72	9.65	12.70	18.601	21.62	PASS
44	5220	MCS8	9.69	9.62	12.67	18.473	21.62	PASS
48	5240	MCS8	9.98	9.91	<b>12.96</b>	<b>19.749</b>	21.62	PASS
52	5260	MCS8	9.99	9.89	12.95	19.727	21.62 or $11+10\log(B) = 23.94$	PASS
60	5300	MCS8	10.04	9.88	<b>12.97</b>	<b>19.820</b>	21.62 or $11+10\log(B) = 23.93$	PASS
64	5320	MCS8	9.98	9.77	12.89	19.438	21.62 or $11+10\log(B) = 23.95$	PASS
100	5500	MCS8	9.94	9.65	12.81	19.089	22.92 or $11+10\log(B) = 23.99$	PASS
116	5580	MCS8	10.28	9.61	<b>12.97</b>	<b>19.807</b>	22.92 or $11+10\log(B) = 23.95$	PASS
140	5700	MCS8	10.27	9.34	12.84	19.232	22.92 or $11+10\log(B) = 23.95$	PASS
149	5745	MCS8	10.23	9.27	<b>12.79</b>	<b>18.997</b>	28.42	PASS
157	5785	MCS8	10.22	9.21	12.75	18.856	28.42	PASS
165	5825	MCS8	10.14	9.23	12.72	18.703	28.42	PASS

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802.11n\_HT40\_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	8.61	8.59	11.61	14.489	21.62	PASS
46	5230	MCS8	8.66	8.58	<b>11.63</b>	<b>14.556</b>	21.62	PASS
54	5270	MCS8	8.61	8.53	11.58	14.390	21.62 or 11+10log(B) = 27.02	PASS
62	5310	MCS8	8.93	8.88	<b>11.92</b>	<b>15.543</b>	21.62 or 11+10log(B) = 27.17	PASS
102	5510	MCS8	9.17	8.66	11.93	15.606	22.92 or 11+10log(B) = 27.16	PASS
110	5550	MCS8	9.32	8.59	<b>11.98</b>	<b>15.778</b>	22.92 or 11+10log(B) = 27.03	PASS
134	5670	MCS8	9.22	8.38	11.83	15.243	22.92 or 11+10log(B) = 27.20	PASS
151	5755	MCS8	9.19	8.36	<b>11.81</b>	<b>15.153</b>	28.42	PASS
159	5795	MCS8	9.08	8.33	11.73	14.899	28.42	PASS

802.11ac\_VHT20\_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
36	5180	MCS8	9.68	9.61	12.66	18.431	21.62	PASS
44	5220	MCS8	9.66	9.61	12.65	18.388	21.62	PASS
48	5240	MCS8	9.89	9.81	<b>12.86</b>	<b>19.322</b>	21.62	PASS
52	5260	MCS8	9.91	9.85	12.89	19.455	21.62 or 11+10log(B) = 23.94	PASS
60	5300	MCS8	9.99	9.85	<b>12.93</b>	<b>19.638</b>	21.62 or 11+10log(B) = 23.93	PASS
64	5320	MCS8	9.91	9.71	12.82	19.149	21.62 or 11+10log(B) = 23.95	PASS
100	5500	MCS8	9.87	9.51	12.70	18.638	22.92 or 11+10log(B) = 23.99	PASS
116	5580	MCS8	10.13	9.57	<b>12.87</b>	<b>19.361</b>	22.92 or 11+10log(B) = 23.95	PASS
140	5700	MCS8	10.18	9.29	12.77	18.915	22.92 or 11+10log(B) = 23.95	PASS
149	5745	MCS8	10.16	9.21	<b>12.72</b>	<b>18.712</b>	28.42	PASS
157	5785	MCS8	10.13	9.17	12.69	18.564	28.42	PASS
165	5825	MCS8	10.09	9.17	12.66	18.470	28.42	PASS

802.11ac\_VHT40\_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
38	5190	MCS8	8.59	8.55	11.58	14.389	21.62	PASS
46	5230	MCS8	8.63	8.57	<b>11.61</b>	<b>14.489</b>	21.62	PASS
54	5270	MCS8	8.59	8.51	11.56	14.323	21.62 or 11+10log(B) = 27.02	PASS
62	5310	MCS8	8.91	8.84	<b>11.89</b>	<b>15.436</b>	21.62 or 11+10log(B) = 27.17	PASS
102	5510	MCS8	9.13	8.61	11.89	15.446	22.92 or 11+10log(B) = 27.16	PASS
110	5550	MCS8	9.28	8.51	<b>11.92</b>	<b>15.568</b>	22.92 or 11+10log(B) = 27.03	PASS
134	5670	MCS8	9.12	8.3	11.74	14.927	22.92 or 11+10log(B) = 27.20	PASS
151	5755	MCS8	9.14	8.29	<b>11.75</b>	<b>14.949</b>	28.42	PASS
159	5795	MCS8	9.01	8.29	11.68	14.707	28.42	PASS

802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	Data Rate	RAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1				
42	5210	MCS8	5.94	5.63	8.80	7.582	21.62	PASS
58	5290	MCS8	5.94	5.63	8.80	7.582	21.62 or 11+10log(B) = 30.08	PASS
106	5530	MCS8	6.02	5.3	8.69	7.388	22.92 or 11+10log(B) = 30.07	PASS
122	5610	MCS8	6.41	5.28	8.89	7.748	22.92 or 11+10log(B) = 30.12	PASS
155	5775	MCS8	6.21	5.28	8.78	7.551	28.42	PASS

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## EIRP

802.11a

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	<b>13.98</b>	<b>25.003</b>	5.35	<b>19.33</b>	23.01 or 10+10log(B) =22.16	PASS
44	5220	13.96	24.889		19.31	23.01 or 10+10log(B) =22.15	PASS
48	5240	13.92	24.660		19.27	23.01 or 10+10log(B) =22.14	PASS
52	5260	13.76	23.768	5.35	19.11	30 or 17+10log(B) =29.15	PASS
60	5300	<b>13.78</b>	<b>23.878</b>		<b>19.13</b>	30 or 17+10log(B) =29.14	PASS
64	5320	13.70	23.442		19.05	30 or 17+10log(B) =29.14	PASS
100	5500	11.49	14.093	4.05	15.54	30 or 17+10log(B) =29.12	PASS
116	5580	<b>13.71</b>	<b>23.496</b>		<b>17.76</b>	30 or 17+10log(B) =29.13	PASS
140	5700	12.33	17.100		16.38	30 or 17+10log(B) =29.12	PASS
149	5745	13.94	24.774	4.57	18.51	30	PASS
157	5785	<b>13.98</b>	<b>25.003</b>		<b>18.55</b>	30	PASS
165	5825	13.86	24.322		18.43	30	PASS

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CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.70	18.601	8.36	21.06	23.01 or 10+10log(B) =22.16	PASS
44	5220	12.67	18.473		21.03	23.01 or 10+10log(B) =22.41	PASS
48	5240	<b>12.96</b>	<b>19.749</b>		<b>21.32</b>	23.01 or 10+10log(B) =22.41	PASS
52	5260	12.95	19.727	8.36	21.31	21.62 or 17+10log(B) =29.41	PASS
60	5300	<b>12.97</b>	<b>19.820</b>		<b>21.33</b>	21.62 or 17+10log(B) =29.42	PASS
64	5320	12.89	19.438		21.25	21.62 or 17+10log(B) =29.41	PASS
100	5500	12.81	19.089	7.06	19.87	22.92 or 17+10log(B) =29.41	PASS
116	5580	<b>12.97</b>	<b>19.807</b>		<b>20.03</b>	22.92 or 17+10log(B) =29.40	PASS
140	5700	12.84	19.232		19.90	22.92 or 17+10log(B) =29.40	PASS
149	5745	<b>12.79</b>	<b>18.997</b>	7.58	<b>20.37</b>	28.42	PASS
157	5785	12.75	18.856		20.33	28.42	PASS
165	5825	12.72	18.703		20.30	28.42	PASS

802.11ac\_VHT20 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.66	18.431	8.36	21.02	23.01 or 10+10log(B) =22.16	PASS
44	5220	12.65	18.388		21.01	23.01 or 10+10log(B) =22.41	PASS
48	5240	<b>12.86</b>	<b>19.322</b>		<b>21.22</b>	23.01 or 10+10log(B) =22.41	PASS
52	5260	12.89	19.455	8.36	21.25	21.62 or 17+10log(B) =29.41	PASS
60	5300	<b>12.93</b>	<b>19.638</b>		<b>21.29</b>	21.62 or 17+10log(B) =29.42	PASS
64	5320	12.82	19.149		21.18	21.62 or 17+10log(B) =29.41	PASS
100	5500	12.70	18.638	7.06	19.76	22.92 or 17+10log(B) =29.41	PASS
116	5580	<b>12.87</b>	<b>19.361</b>		<b>19.93</b>	22.92 or 17+10log(B) =29.40	PASS
140	5700	12.77	18.915		19.83	22.92 or 17+10log(B) =29.40	PASS
149	5745	<b>12.72</b>	<b>18.712</b>	7.58	<b>20.30</b>	28.42	PASS
157	5785	12.69	18.564		20.27	28.42	PASS
165	5825	12.66	18.470		20.24	28.42	PASS

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CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.61	14.489	8.36	19.97	23.01 or 10+10log(B) =25.55	PASS
46	5230	<b>11.63</b>	<b>14.556</b>		<b>19.99</b>	23.01 or 10+10log(B) =25.54	PASS
54	5270	11.58	14.390	8.36	19.94	21.62 or 17+10log(B) =32.55	PASS
62	5310	11.92	15.543		20.28	21.62 or 17+10log(B) =32.55	PASS
102	5510	11.93	15.606	7.06	18.99	22.92 or 17+10log(B) =32.48	PASS
110	5550	<b>11.98</b>	<b>15.776</b>		<b>19.04</b>	22.92 or 17+10log(B) =32.52	PASS
134	5670	11.83	15.243		18.89	22.92 or 17+10log(B) =32.52	PASS
151	5755	<b>11.81</b>	<b>15.153</b>	7.58	<b>19.39</b>	28.42	PASS
159	5795	11.73	14.899		19.31	28.42	PASS

802.11ac\_VHT40 MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
38	5190	11.58	14.389	8.36	19.94	23.01 or 10+10log(B) =25.55	PASS
46	5230	<b>11.61</b>	<b>14.489</b>		<b>19.97</b>	23.01 or 10+10log(B) =25.54	PASS
54	5270	11.56	14.323	8.36	19.92	21.62 or 17+10log(B) =32.55	PASS
62	5310	<b>11.89</b>	<b>15.436</b>		<b>20.25</b>	21.62 or 17+10log(B) =32.55	PASS
102	5510	11.89	15.446	7.06	18.95	22.92 or 17+10log(B) =32.48	PASS
110	5550	<b>11.92</b>	<b>15.568</b>		<b>18.98</b>	22.92 or 17+10log(B) =32.52	PASS
134	5670	11.74	14.927		18.80	22.92 or 17+10log(B) =32.52	PASS
151	5755	<b>11.75</b>	<b>14.949</b>	7.58	<b>19.33</b>	28.42	PASS
159	5795	11.68	14.707		19.26	28.42	PASS

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802.11ac\_VHT80

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
42	5210	<b>8.80</b>	<b>7.586</b>	8.36	<b>17.16</b>	23.01 or $10+10\log(B) = 28.75$	PASS
58	5290	<b>8.80</b>	<b>7.586</b>	8.36	<b>17.16</b>	21.62 or $17+10\log(B) = 35.75$	PASS
106	5530	<b>8.69</b>	<b>7.396</b>	7.06	<b>15.75</b>	22.92 or $17+10\log(B) = 35.75$	PASS
155	5775	<b>8.78</b>	<b>7.551</b>	7.58	<b>16.36</b>	28.42	PASS

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## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

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

#### IC

OPERATION FREQUENCY BAND	LIMIT
5150~5250 MHz	EIRP spectral density 10 dBm / MHz
5250~5350 MHz	11dBm / MHz
5470-5600 MHz and 5650-5725 MHz	11dBm / MHz
5725~5850 MHz	30dBm / 500 kHz

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

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The antenna gain is greater than 6 dBi in MIMO mode the limit reduce as below:

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

**FCC**

	Effective Legacy Gain (dBi)	Limit
<b>UNII-1</b>	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
<b>UNII-2A</b>	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
<b>U-NII-2C</b>	4.05+3.01=7.06dBi	11dBm – (7.06– 6 dBi) = 9.94dBm
<b>U-NII-3</b>	4.57+3.01=7.58dBi	30dBm – (7.58– 6 dBi) = 28.42dBm

**IC**

	Effective Legacy Gain (dBi)	Limit
<b>UNII-2A</b>	5.35+3.01=8.36dBi	11dBm – (8.36– 6 dBi) = 8.64dBm
<b>U-NII-2C</b>	4.05+3.01=7.06dBi	11dBm – (7.06– 6 dBi) = 9.94dBm
<b>U-NII-3</b>	4.57+3.01=7.58dBi	30dBm – (7.58– 6 dBi) = 28.42dBm

Therefore the limit needs to reduce for the UNII-1, U-NII-2A, U-NII-2C and U-NII-3 band.

**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 .
- 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)
- Use 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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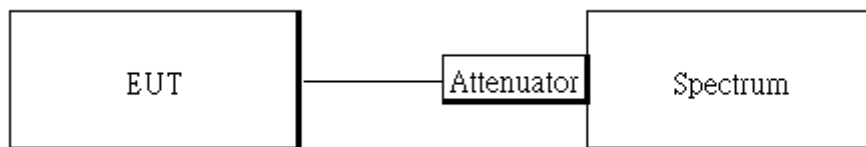
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Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

### 10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2016	01/01/2017

### 10.4 Test Set-up



### 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	1.26	11	-9.74
5220	-0.70	11	-11.70
5240	0.38	11	-10.62
5260	-0.53	11	-11.53
5300	-0.34	11	-11.34
5320	-0.51	11	-11.51
5500	0.08	11	-10.92
5580	0.10	11	-10.90
5700	-0.71	11	-11.71
5745	7.58	30	-22.42
5785	6.80	30	-23.20
5825	7.13	30	-22.87

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POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-2.72	8.64	-11.36
5220	-1.47	8.64	-10.11
5240	-2.28	8.64	-10.92
5260	-3.10	8.64	-11.74
5300	-3.19	8.64	-11.83
5320	-1.72	8.64	-10.36
5500	-2.88	9.94	-12.82
5580	-2.78	9.94	-12.72
5700	-2.77	9.94	-12.71
5745	6.29	28.42	-22.13
5785	6.54	28.42	-21.88
5825	6.09	28.42	-22.33

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-9.75	8.64	-18.39
5230	-9.24	8.64	-17.88
5270	-9.2	8.64	-17.84
5310	-9.44	8.64	-18.08
5510	-8.25	9.94	-18.19
5550	-8.57	9.94	-18.51
5670	-5.07	9.94	-15.01
5755	2.75	28.42	-25.67
5795	2.02	28.42	-26.40

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-13.78	8.64	-22.42
5290	-11.78	8.64	-20.42
5530	-14.43	9.94	-24.37
5610	-12.58	9.94	-22.52
5775	-3.20	28.42	-31.62

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For IC Band 1

802.11 a					
Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5180	1.26	5.35	6.61	10.00	-3.39
5220	-0.70	5.35	4.65	10.00	-5.35
5240	0.38	5.35	5.73	10.00	-4.27

802.11 n HT20					
Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5180	-2.72	8.39	5.67	10.00	-4.33
5220	-1.47	8.39	6.92	10.00	-3.08
5240	-2.28	8.39	6.11	10.00	-3.89

802.11 n HT40					
Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5190	-9.75	8.39	-1.36	10.00	-11.36
5230	-9.24	8.39	-0.85	10.00	-10.85

802.11 n VHT80					
Frequency (MHz)	PPSD (dBm / MHz)	Antenna Gain (dBi)	EIRP spectral density (dBm / MHz)	Limit (dBm / MHz)	Margin (dB)
5210	-13.78	8.39	-5.39	10.00	-15.39

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



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



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



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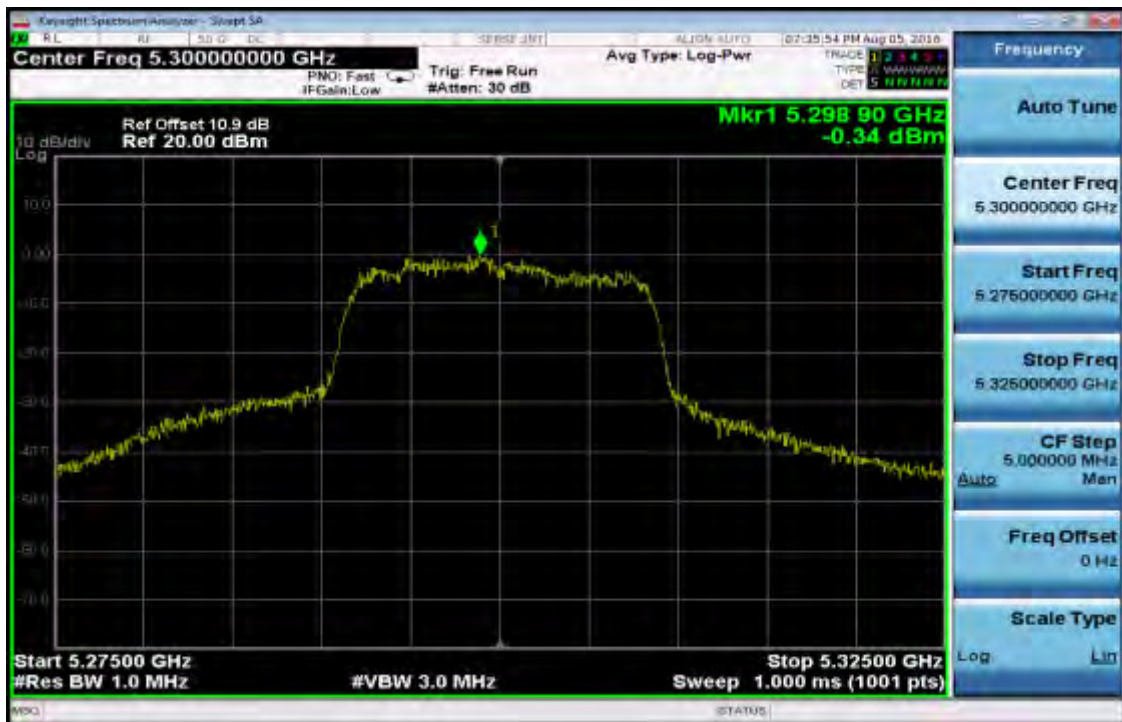
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**802.11a 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260 MHz)**



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



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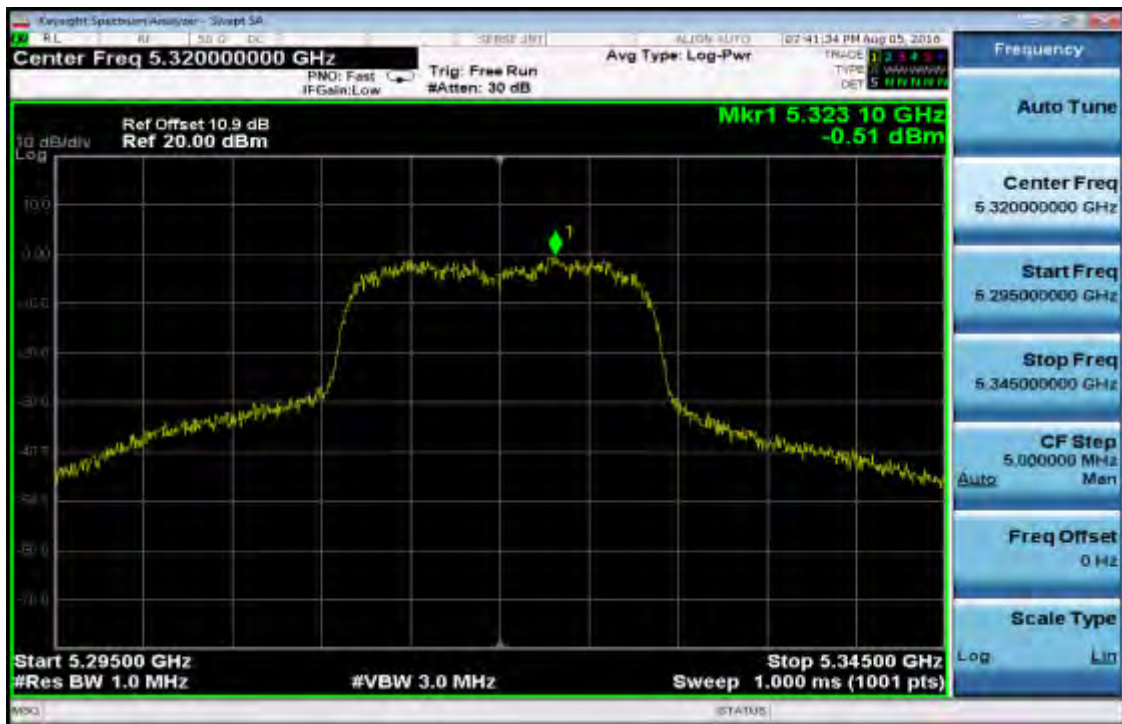
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### Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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



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802.11a 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)



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



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



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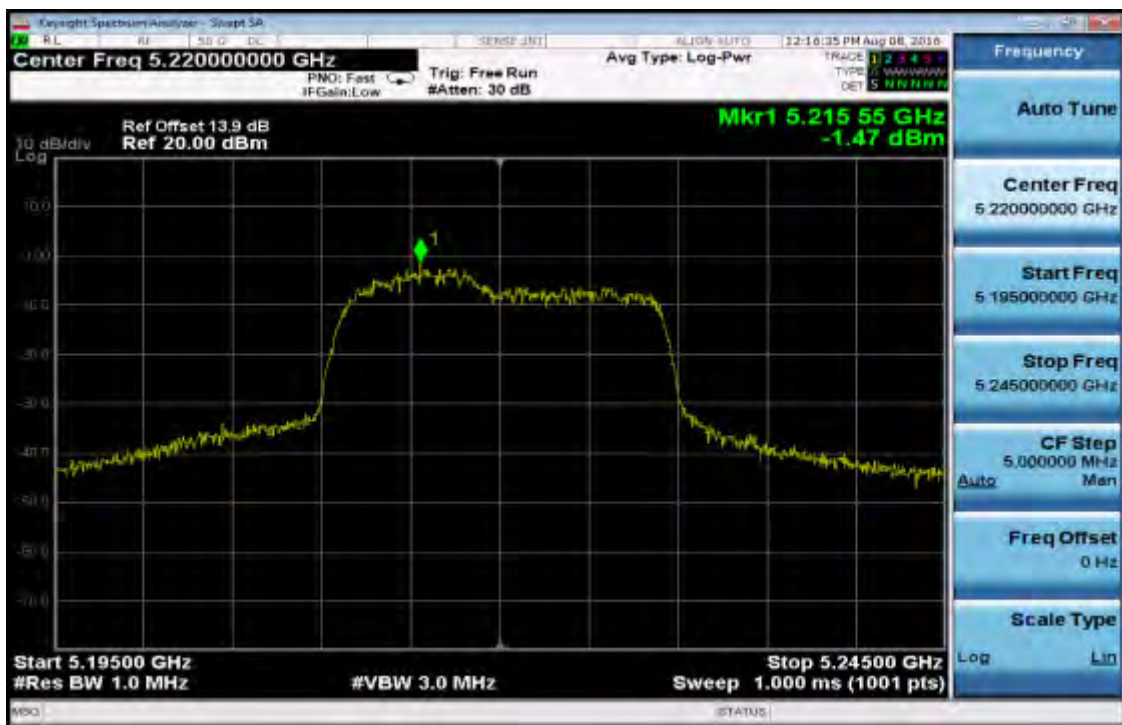
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**802.11n HT20, 5150~5250 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5180 MHz)**



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



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



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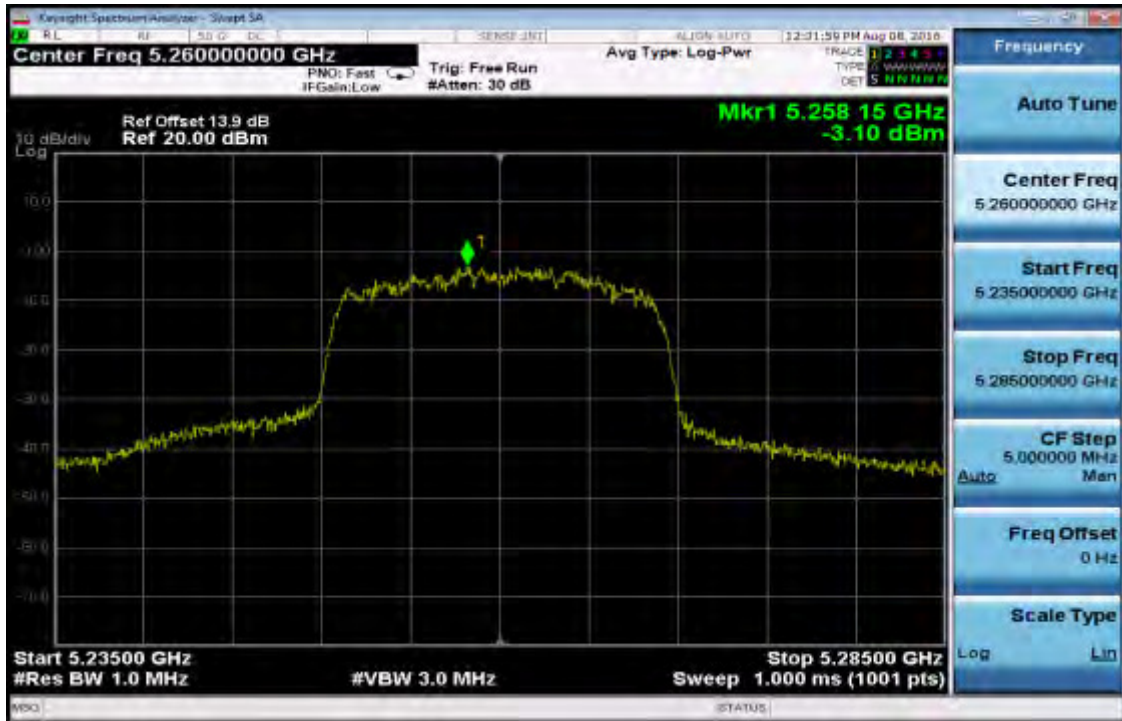
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**802.11n HT20, 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260MHz)**



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



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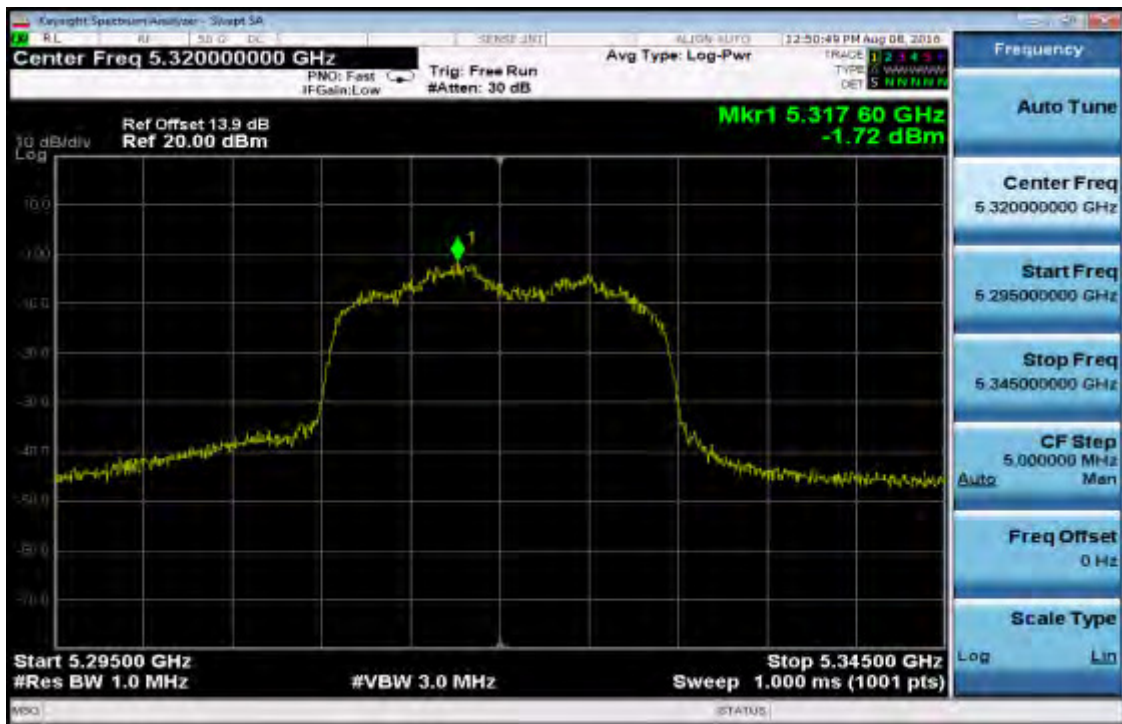
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### Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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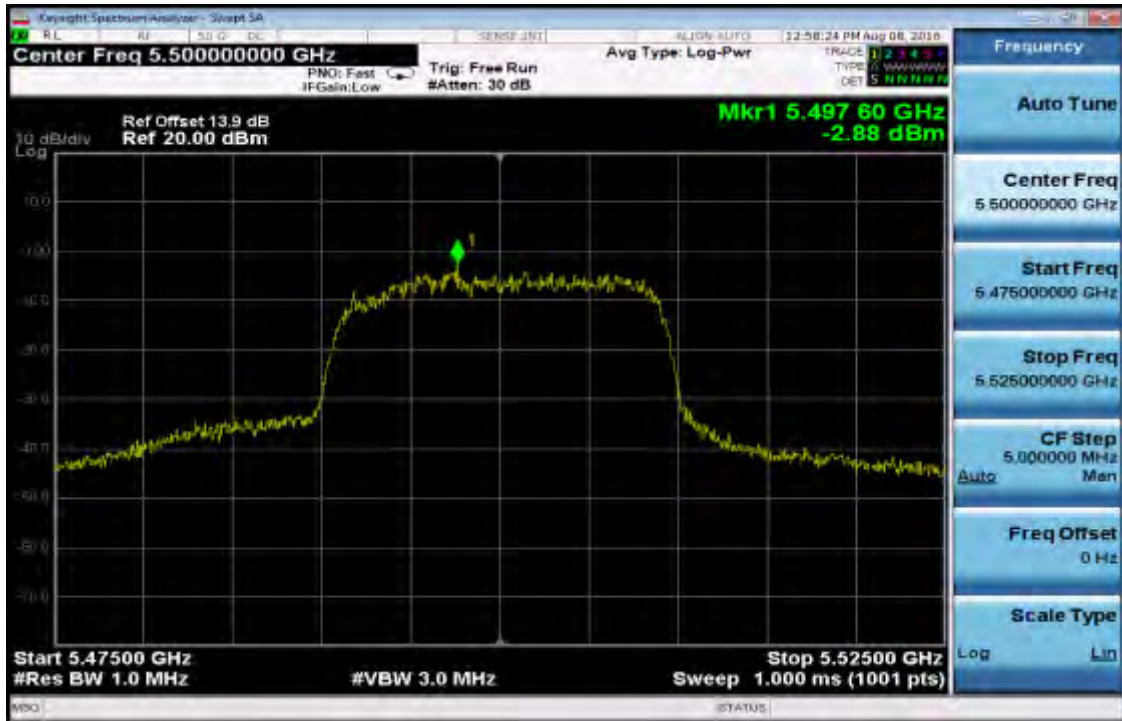
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**802.11n HT20, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**



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



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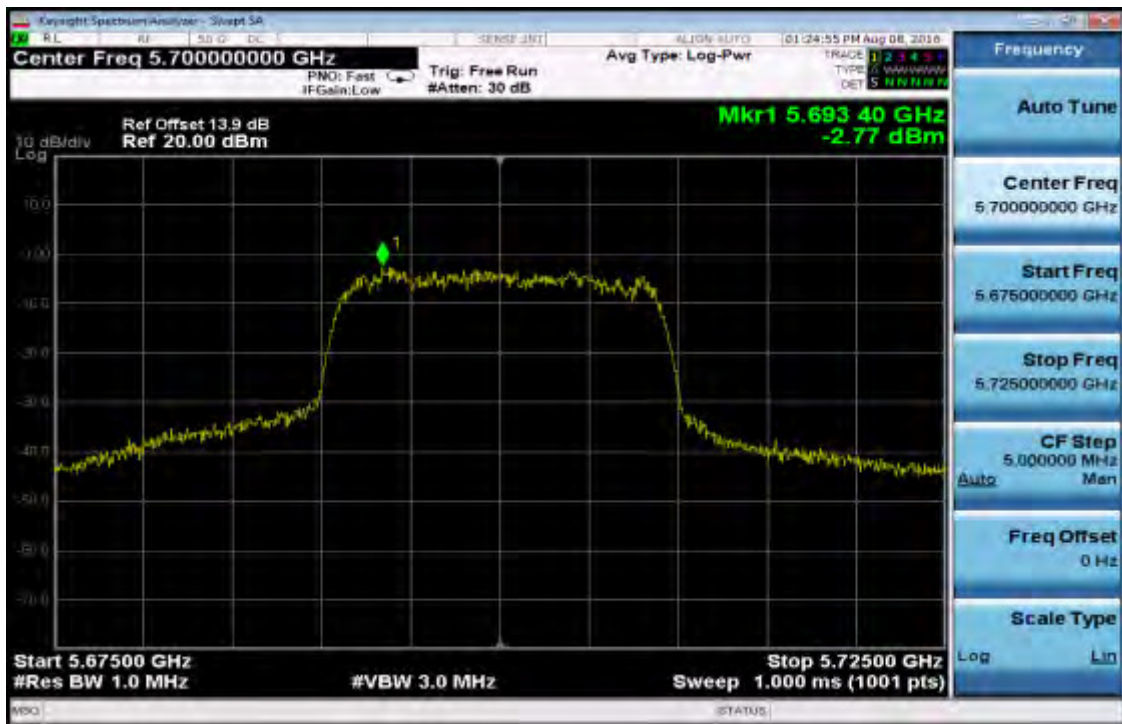
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### Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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**802.11n HT20, 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Low 5745 MHz)**



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



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



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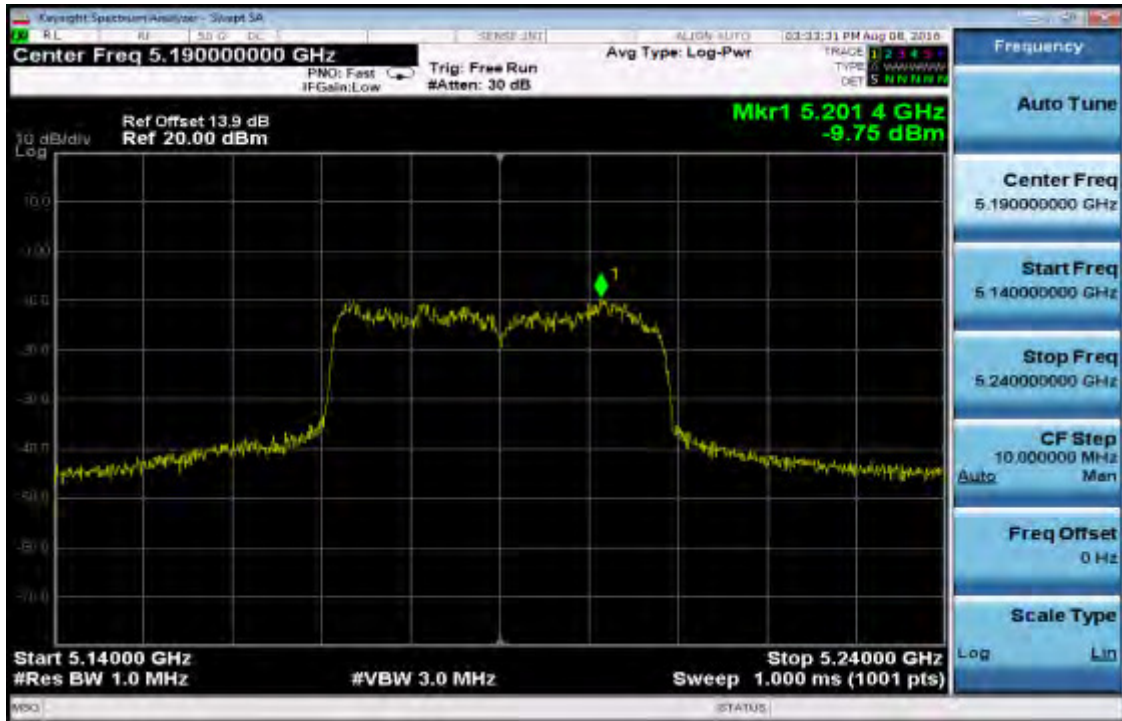
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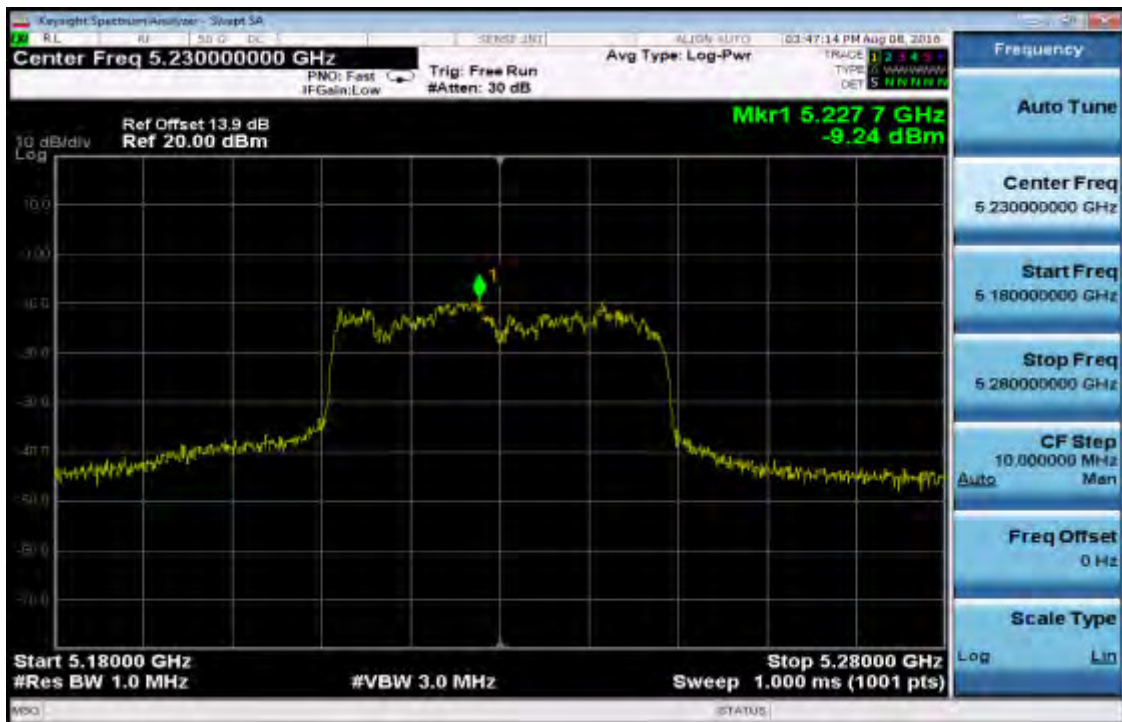
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**802.11n HT40, 5150~5250 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5190 MHz)**



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



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**802.11n HT40, 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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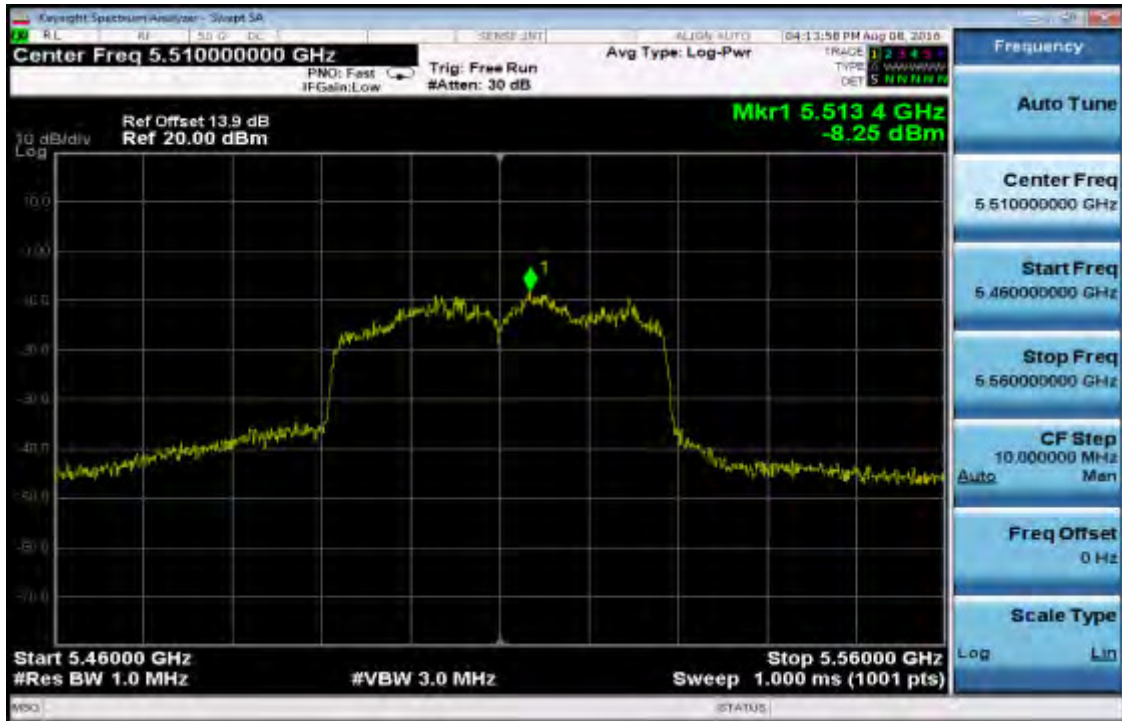
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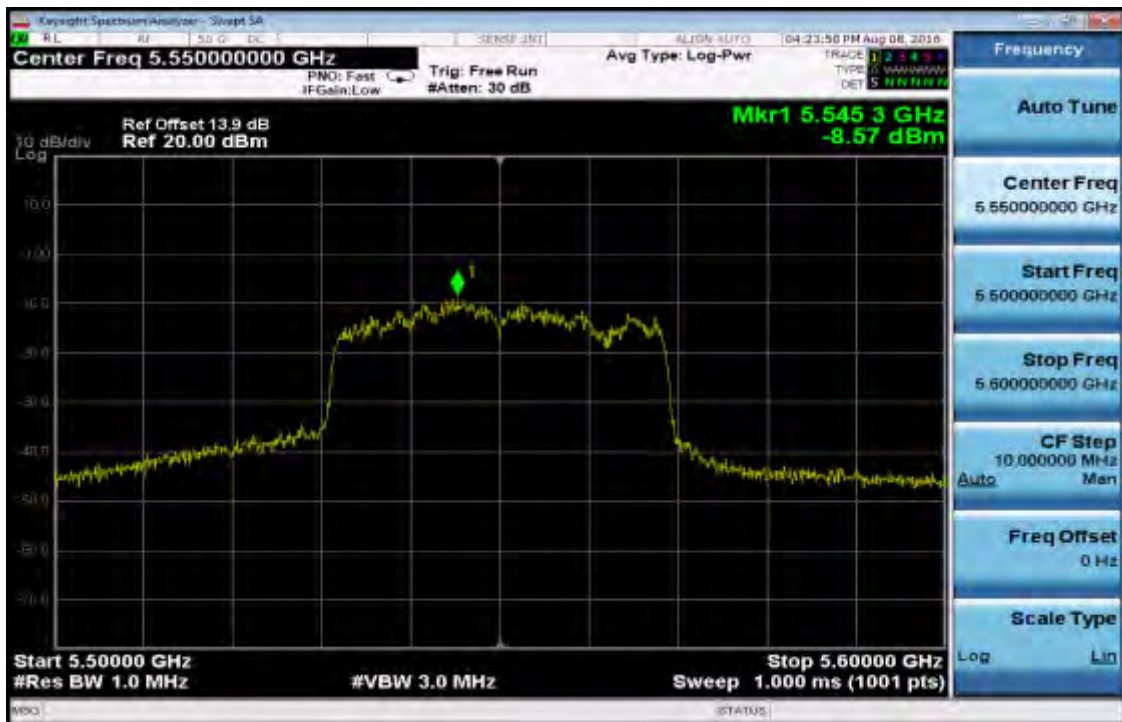
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**802.11n HT40, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5510 MHz)**



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



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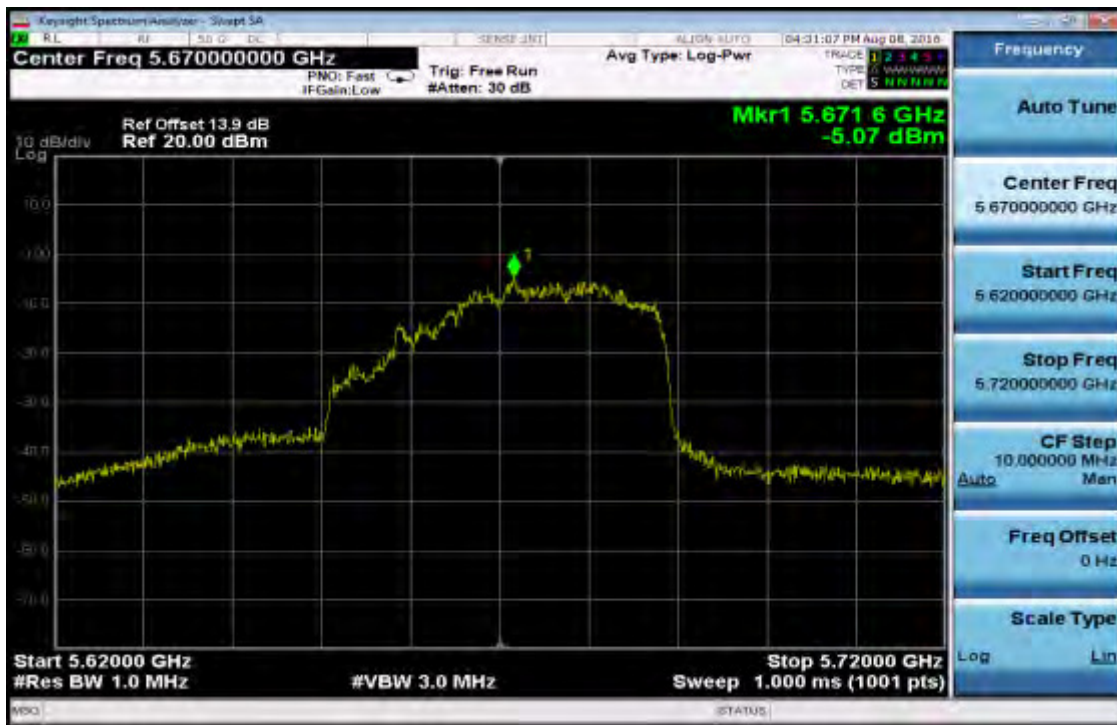
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### Peak Power Spectral Density Data Plot (CH High 5670 MHz)



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



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



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



**802.11ac VHT80, 5250~5350 MHz  
Peak Power Spectral Density Data Plot (CH Mid 5290 MHz)**



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802.11ac VHT80, 5470~5725 MHz  
Peak Power Spectral Density Data Plot (CH Low 5530 MHz)



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



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802.11ac VHT80, 5725~5850 MHz  
Peak Power Spectral Density Data Plot (CH Mid 5775 MHz)



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## 11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

### 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 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)(i)	PK:-27 (dBm/MHz) *1 PK:10 (dBm/MHz) *2 PK:15.6 (dBm/MHz) *3 PK:27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK:105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK:122.2 (dBμV/m) *4
RSS-247 6.2.4 (2)	PK: -27 (dBm/MHz)	PK: 68.3 (dBμV/m)
	PK: -17 (dBm/MHz)	PK: 78.2 (dBμV/m)
*1 beyond 75 MHz or more above of the bandedge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.		

$EIRP = (E \cdot d)^2 / 30$ , 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 (dB $\mu$ V/m) = 20 log Emission level (dB $\mu$ V/m)

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## 11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/29/2016	01/28/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/07/2015	09/06/2016
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/14/2015	12/13/2016
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/02/2016	01/01/2017
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/02/2016	01/01/2017
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/02/2016	01/01/2017
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2015	12/11/2016
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/02/2016	01/01/2017

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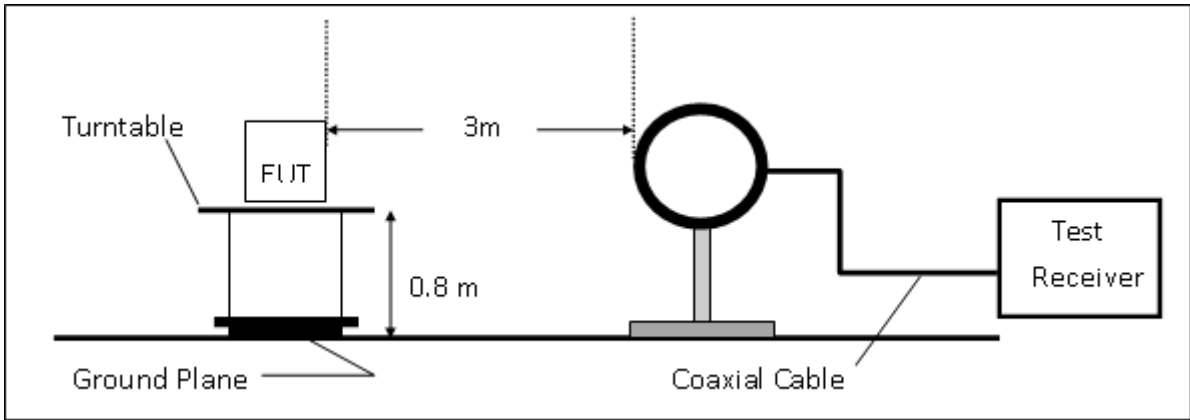
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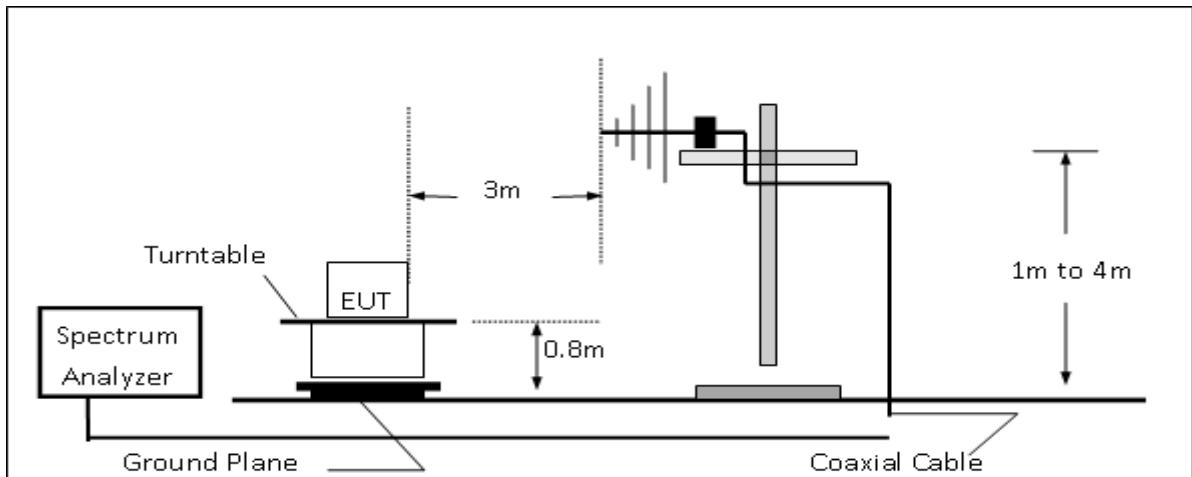
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### 11.3 Test SET-UP

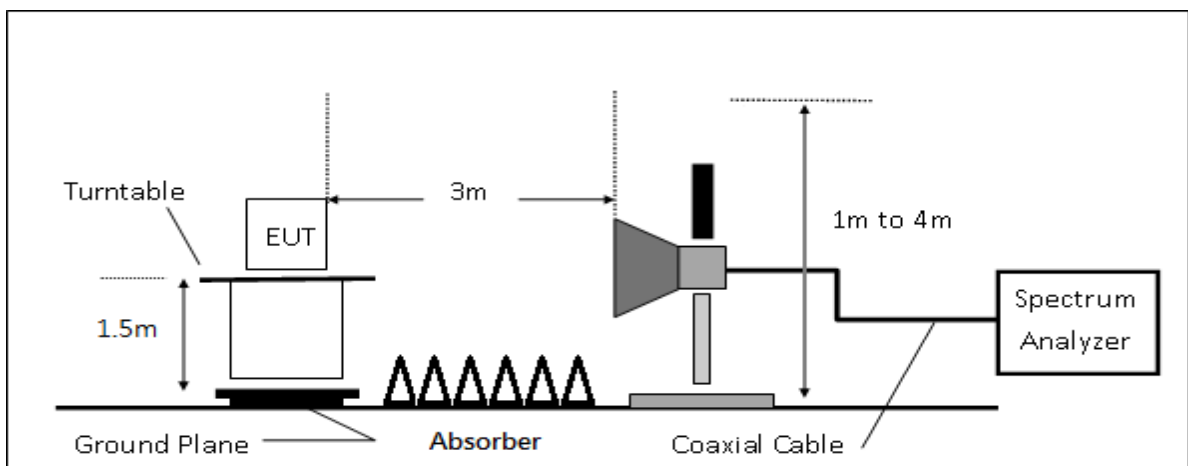
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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### 11.4 Measurement Procedure

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 .
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	

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

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

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**Note :**

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

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

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

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

**11.7 Measurement Result**

Refer to attach tabular data sheets.

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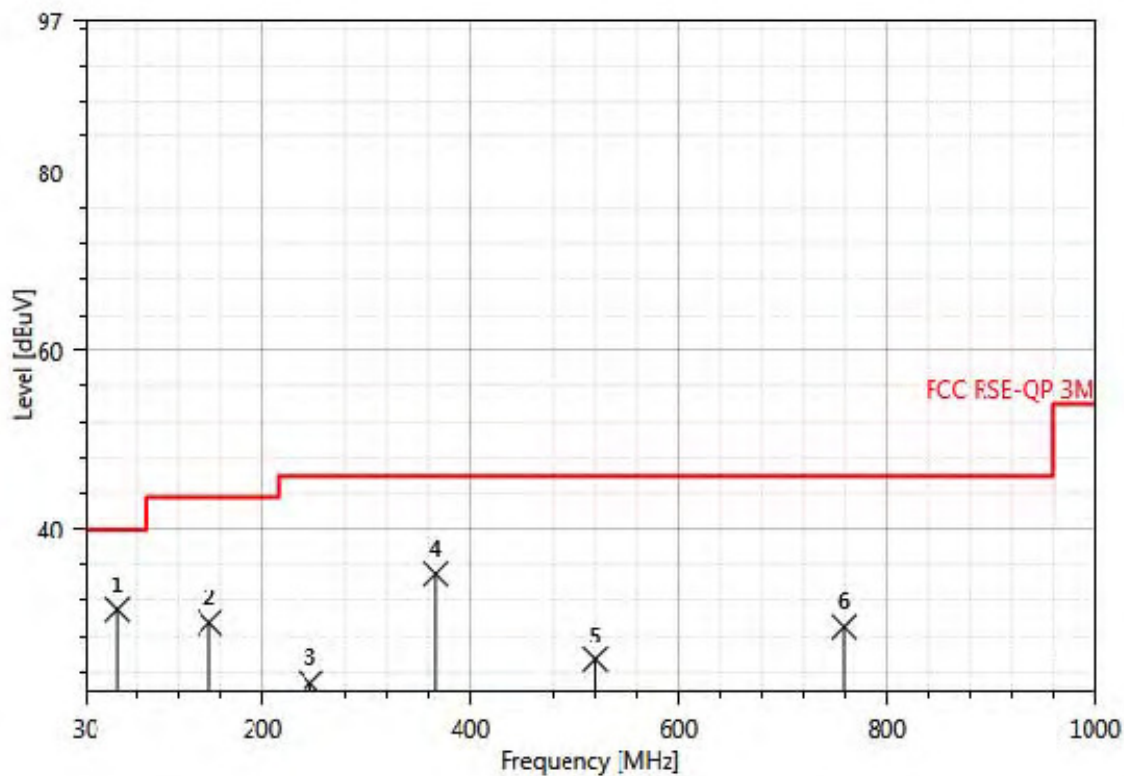


## Radiated Spurious Emission Measurement Result

### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
61.04	S	Peak	30.95	39.20	-8.25	40.00	-9.05
149.31	S	Peak	29.54	37.35	-7.82	43.50	-13.96
246.31	S	Peak	22.77	30.78	-8.01	46.00	-23.23
366.59	S	Peak	35.02	39.74	-4.72	46.00	-10.98
519.85	S	Peak	25.38	27.01	-1.62	46.00	-20.62
759.44	S	Peak	29.08	26.07	3.01	46.00	-16.92

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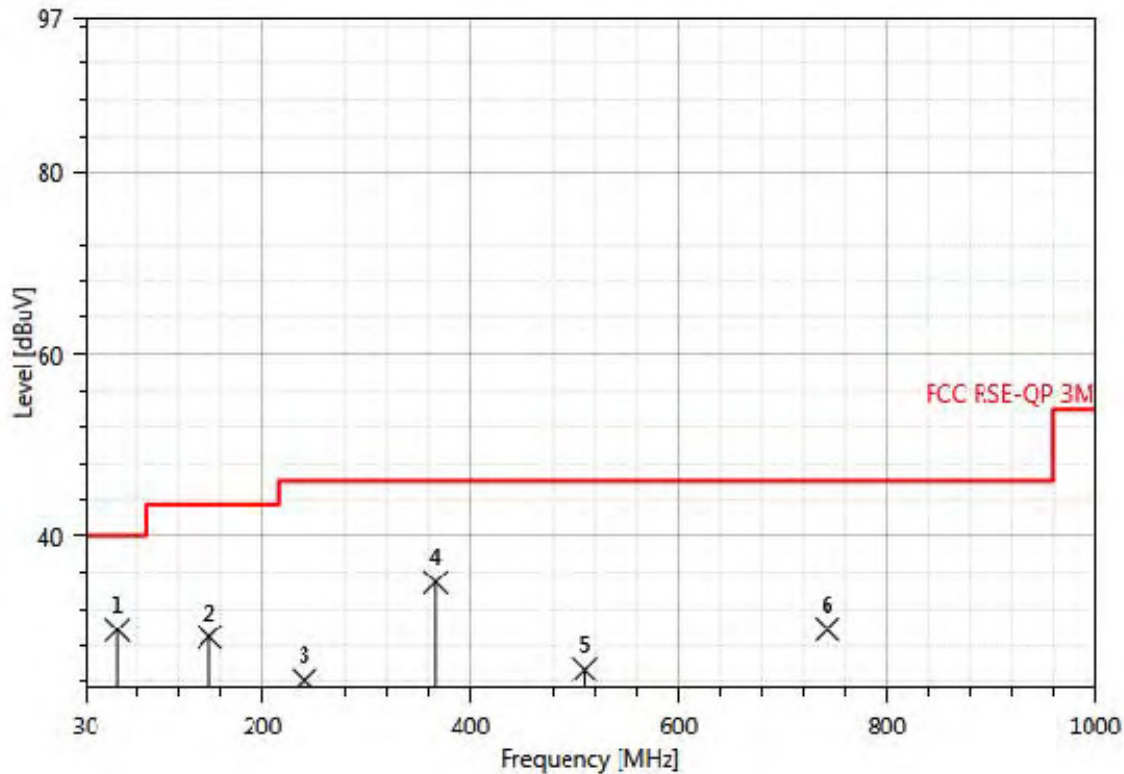
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	29.69	37.94	-8.25	40.00	-10.31
149.31	S	Peak	28.91	36.73	-7.82	43.50	-14.59
240.49	S	Peak	24.15	32.18	-8.03	46.00	-21.85
366.59	S	Peak	34.93	39.65	-4.72	46.00	-11.07
510.15	S	Peak	25.35	27.55	-2.20	46.00	-20.65
742.95	S	Peak	29.76	27.49	2.28	46.00	-16.24

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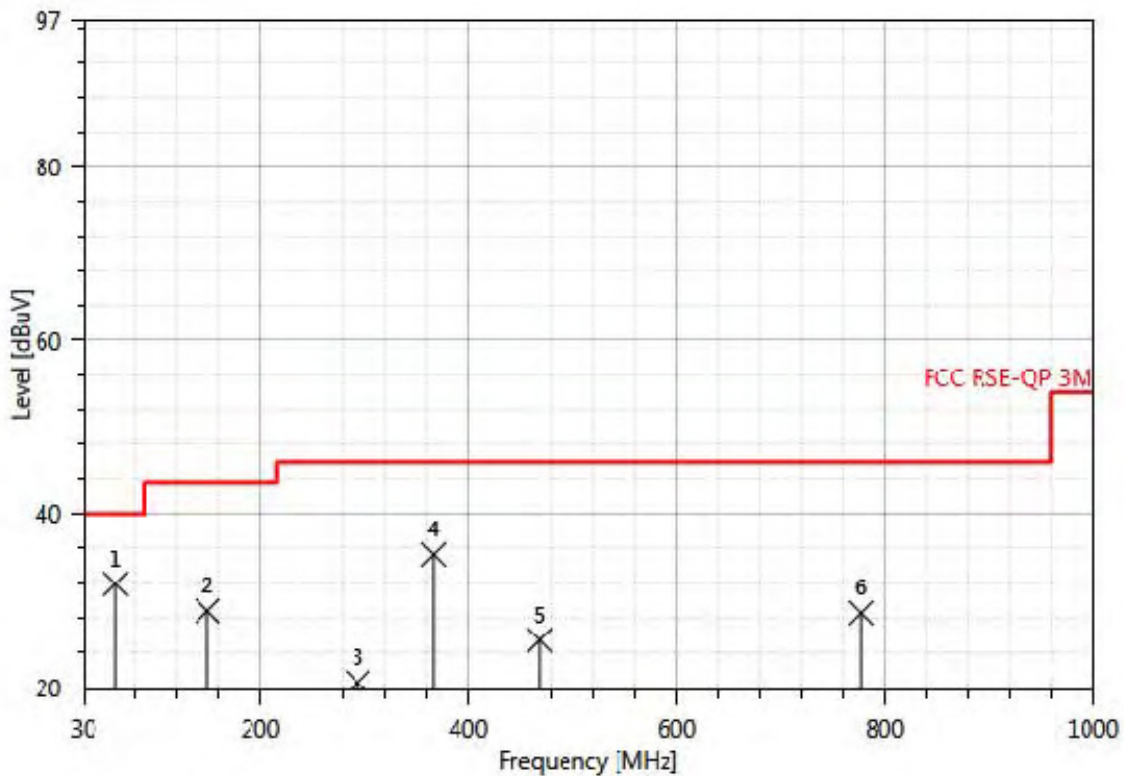
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802.11a 5250~5350 MHz

Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.89	40.14	-8.25	40.00	-8.11
149.31	S	Peak	28.78	36.60	-7.82	43.50	-14.72
293.84	S	Peak	20.51	26.56	-6.05	46.00	-25.49
366.59	S	Peak	35.28	40.00	-4.72	46.00	-10.72
468.44	S	Peak	25.41	27.98	-2.57	46.00	-20.59
776.90	S	Peak	28.56	26.01	2.54	46.00	-17.44

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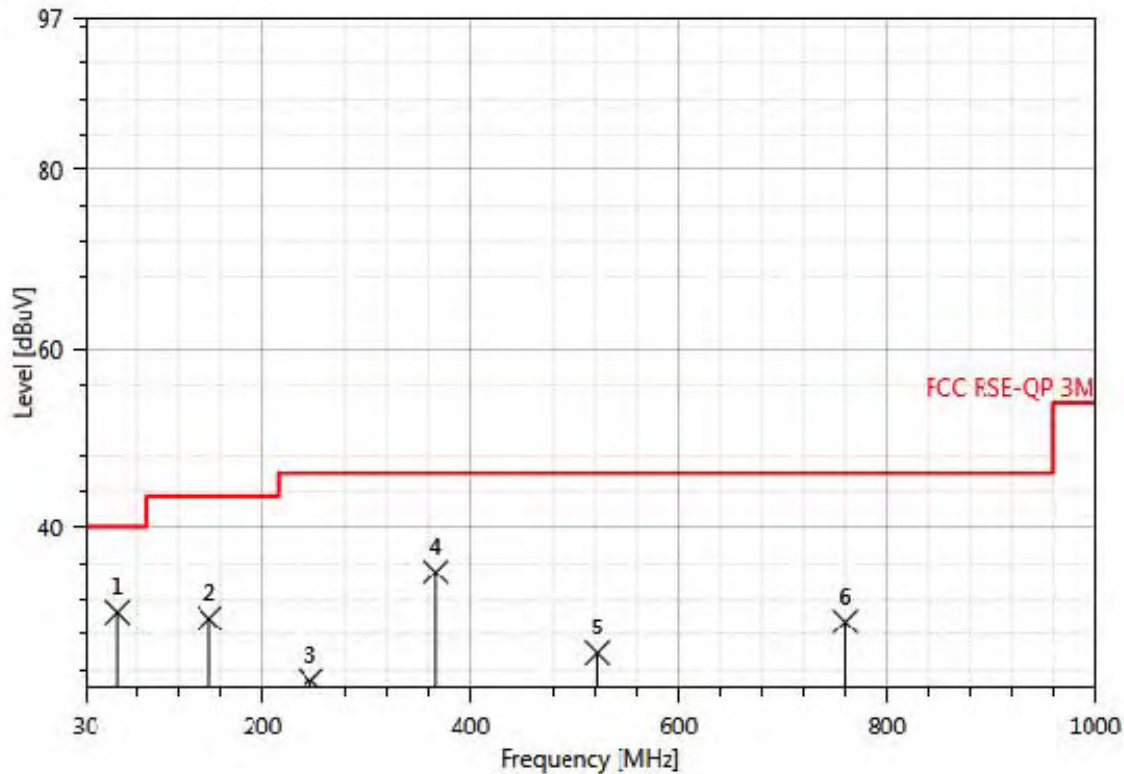
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	30.54	38.79	-8.25	40.00	-9.46
149.31	S	Peak	29.84	37.66	-7.82	43.50	-13.66
246.31	S	Peak	22.91	30.93	-8.01	46.00	-23.09
366.59	S	Peak	35.03	39.75	-4.72	46.00	-10.97
521.79	S	Peak	25.99	27.59	-1.60	46.00	-20.01
760.41	S	Peak	29.49	26.54	2.95	46.00	-16.51

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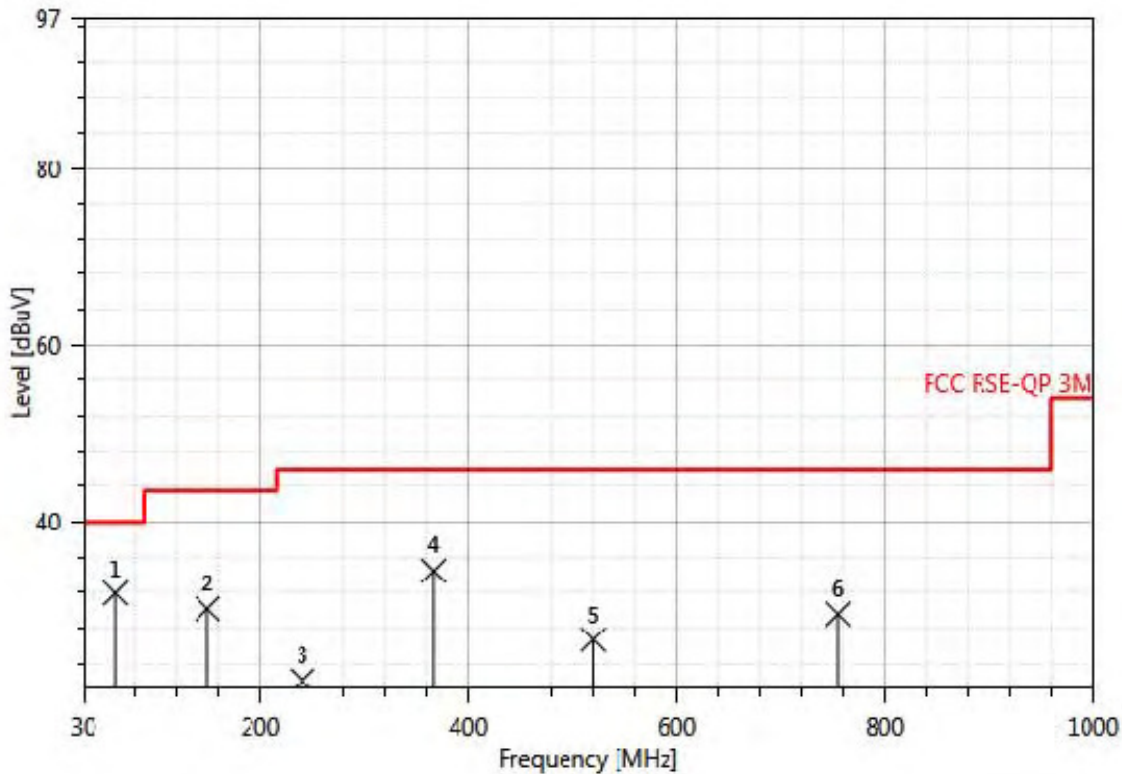
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### 802.11a, 5470~5725 MHz

Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.94	40.19	-8.25	40.00	-8.06
149.31	S	Peak	30.19	38.00	-7.82	43.50	-13.31
240.49	S	Peak	22.06	30.09	-8.03	46.00	-23.94
366.59	S	Peak	34.47	39.19	-4.72	46.00	-11.53
519.85	S	Peak	26.69	28.31	-1.62	46.00	-19.31
755.56	S	Peak	29.59	26.78	2.81	46.00	-16.41

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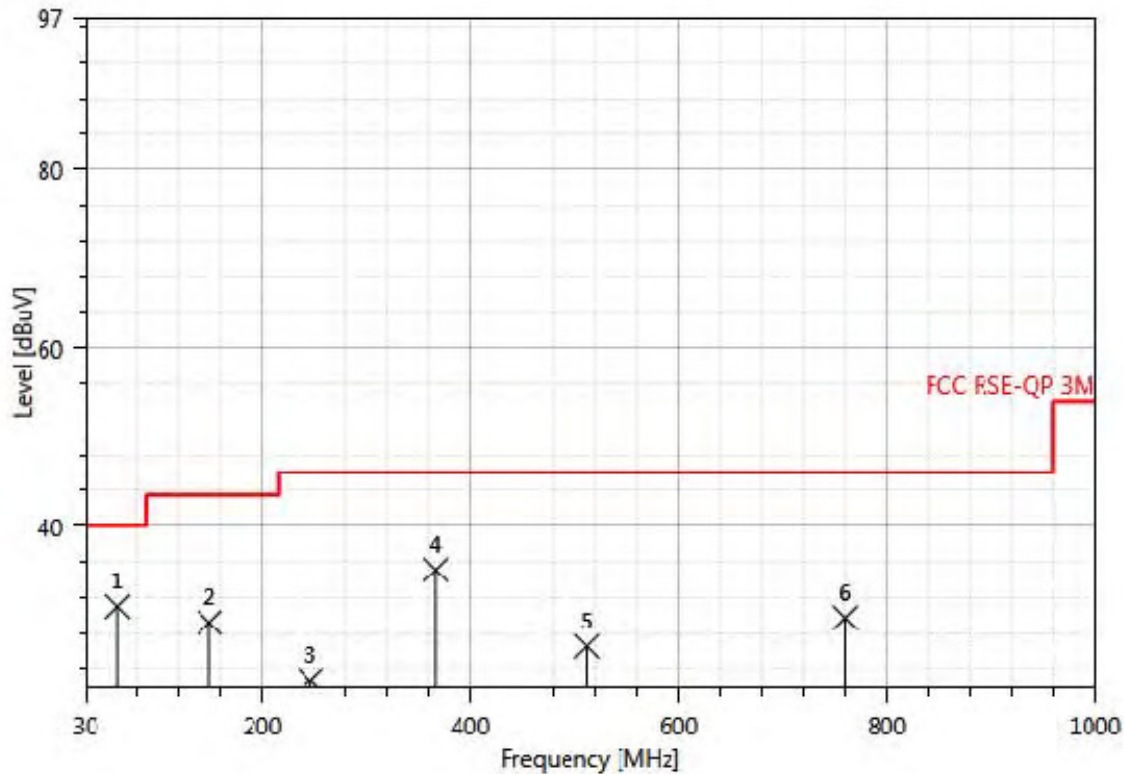
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	30.97	39.22	-8.25	40.00	-9.03
149.31	S	Peak	29.18	36.99	-7.82	43.50	-14.32
246.31	S	Peak	22.69	30.70	-8.01	46.00	-23.31
366.59	S	Peak	35.09	39.81	-4.72	46.00	-10.91
512.09	S	Peak	26.50	28.48	-1.98	46.00	-19.50
760.41	S	Peak	29.71	26.76	2.95	46.00	-16.29

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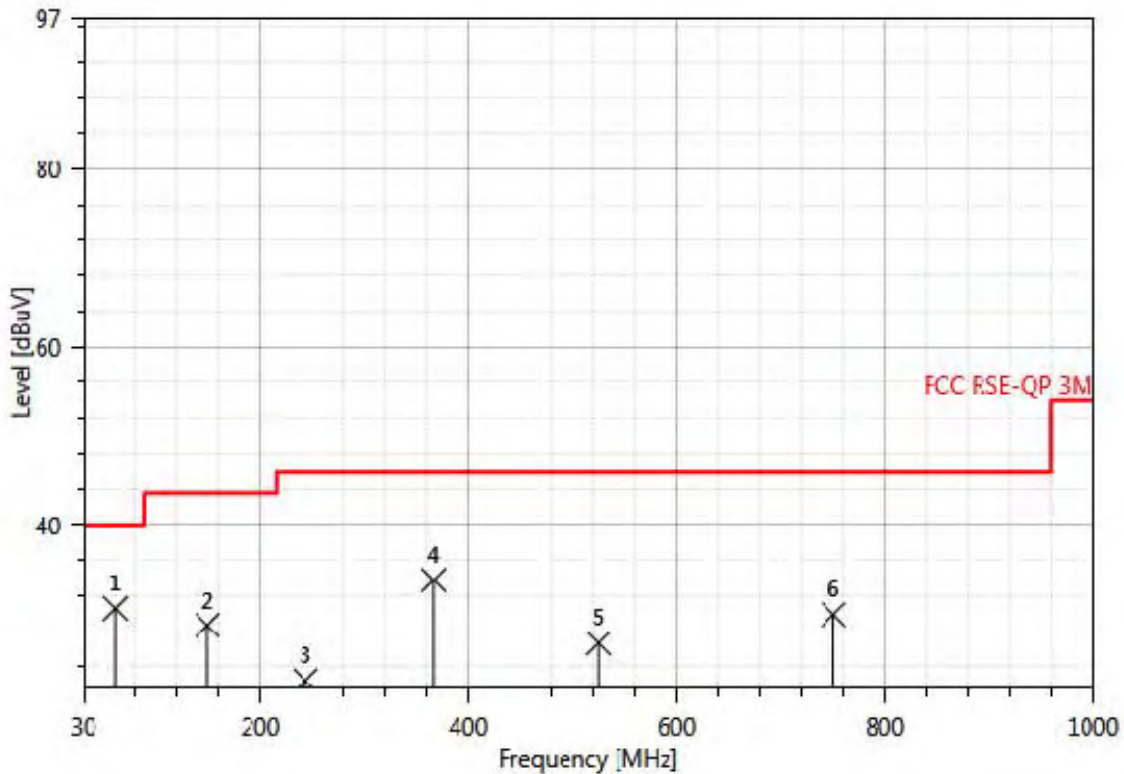
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**802.11a, 5725~5850 MHz**

Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	30.55	38.80	-8.25	40.00	-9.45
149.31	S	Peak	28.66	36.48	-7.82	43.50	-14.84
243.40	S	Peak	22.44	30.47	-8.03	46.00	-23.56
366.59	S	Peak	33.75	38.47	-4.72	46.00	-12.25
524.70	S	Peak	26.66	28.33	-1.68	46.00	-19.34
750.71	S	Peak	29.88	27.13	2.76	46.00	-16.12

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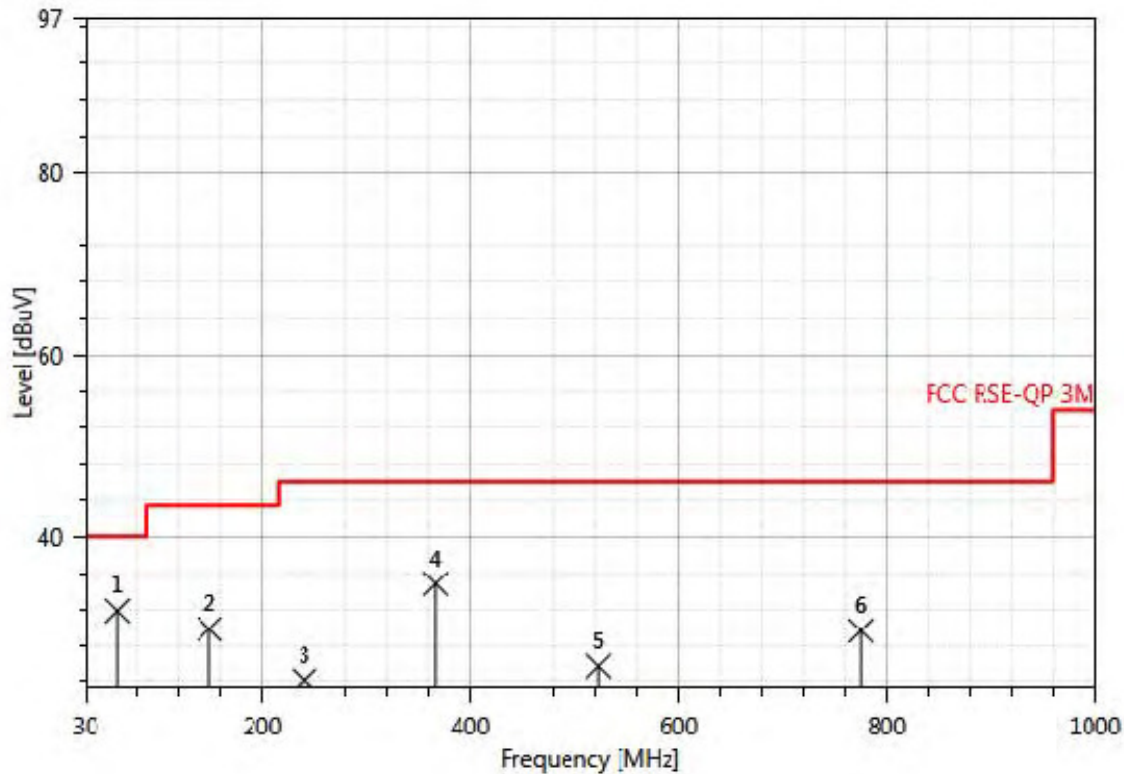
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.90	40.15	-8.25	40.00	-8.10
149.31	S	Peak	29.91	37.72	-7.82	43.50	-13.59
240.49	S	Peak	24.26	32.30	-8.03	46.00	-21.74
366.59	S	Peak	34.87	39.59	-4.72	46.00	-11.13
522.76	S	Peak	25.87	27.52	-1.66	46.00	-20.13
774.96	S	Peak	29.71	26.95	2.76	46.00	-16.29

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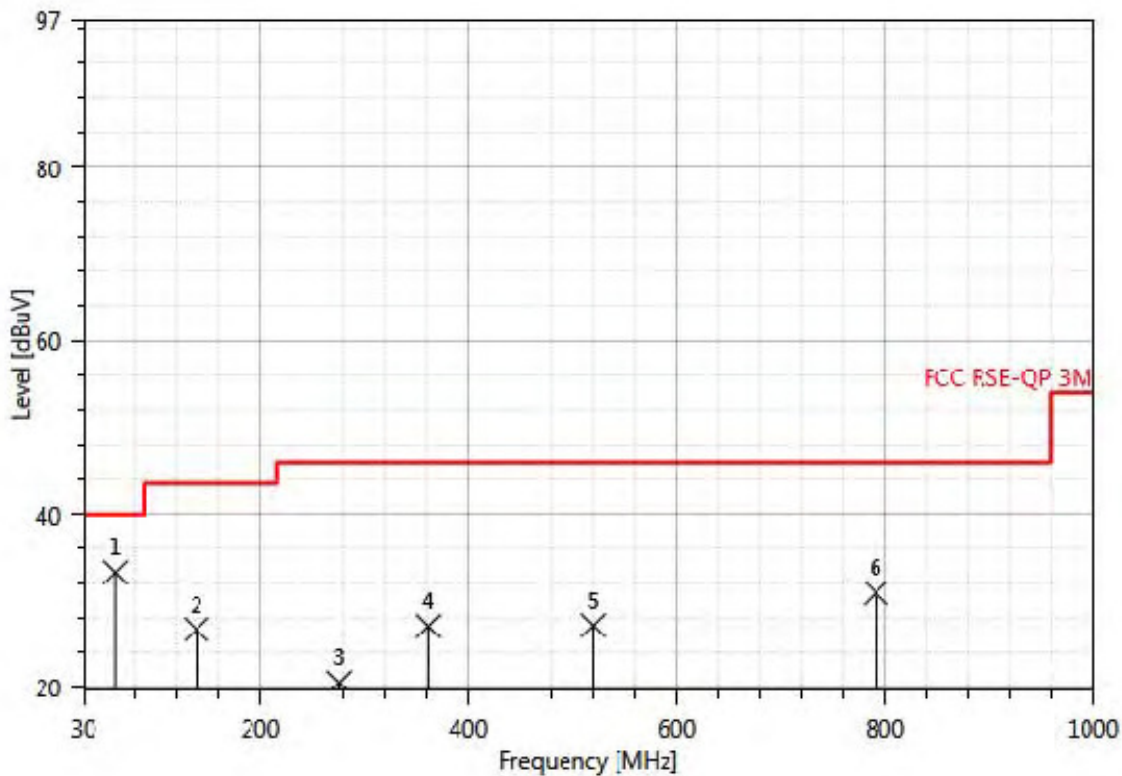
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### 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11 ac80B1	Test Date :	08/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	33.30	41.55	-8.25	40.00	-6.70
138.64	S	Peak	26.72	35.21	-8.49	43.50	-16.78
275.41	S	Peak	20.59	27.21	-6.63	46.00	-25.41
361.74	S	Peak	27.10	31.90	-4.80	46.00	-18.90
519.85	S	Peak	27.19	28.82	-1.62	46.00	-18.81
791.45	S	Peak	30.91	28.02	2.89	46.00	-15.09

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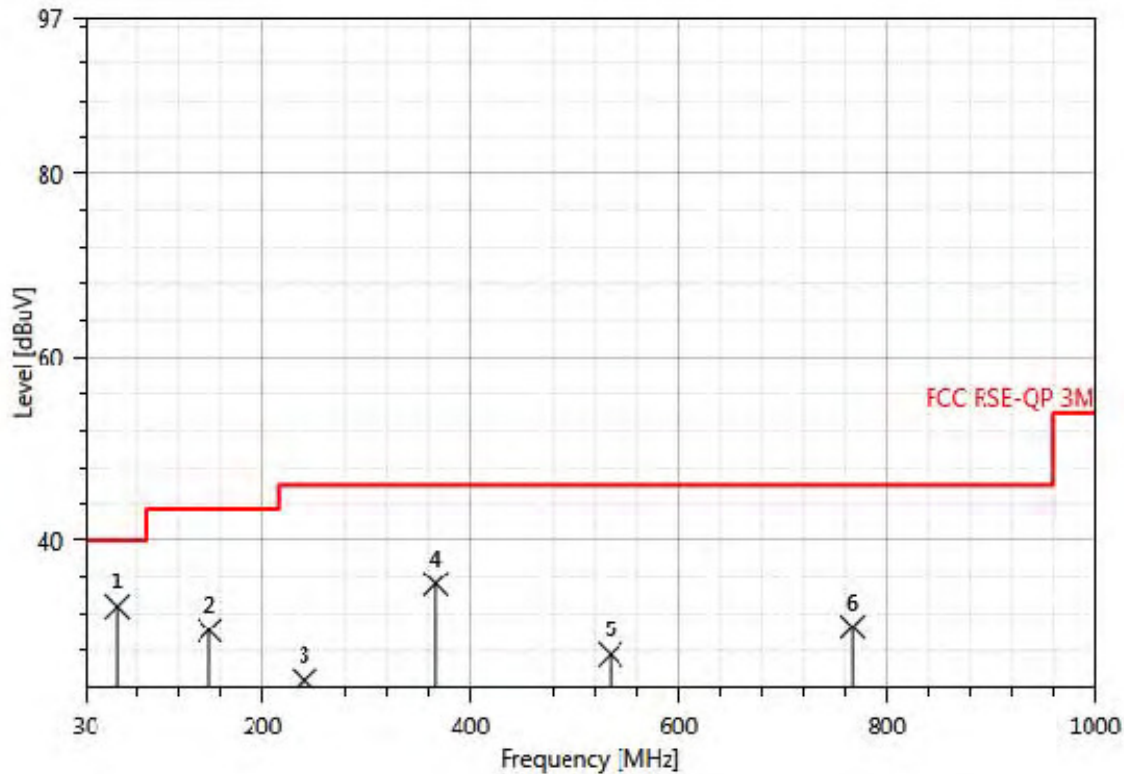
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Operation Mode : 802.11 ac80B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	32.81	41.06	-8.25	40.00	-7.19
149.31	S	Peak	30.23	38.05	-7.82	43.50	-13.27
240.49	S	Peak	24.77	32.81	-8.03	46.00	-21.23
366.59	S	Peak	35.28	40.01	-4.72	46.00	-10.72
534.40	S	Peak	27.61	29.28	-1.67	46.00	-18.39
767.20	S	Peak	30.59	27.45	3.14	46.00	-15.41

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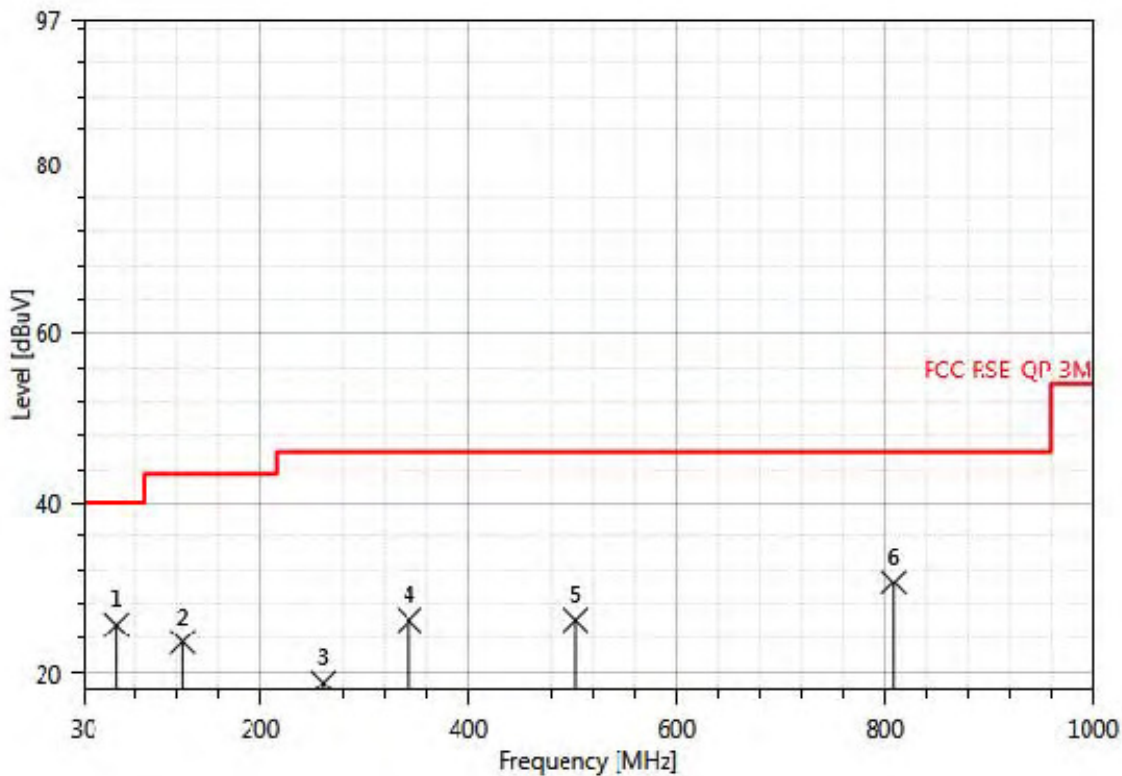
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**802.11ac VHT80, 5250~5350 MHz**

Operation Mode :	802.11 ac80B2	Test Date :	08/04/2016
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
62.01	S	Peak	25.61	34.08	-8.47	40.00	-14.39
125.06	S	Peak	23.57	33.55	-9.98	43.50	-19.93
260.86	S	Peak	18.79	26.04	-7.24	46.00	-27.21
343.31	S	Peak	26.17	31.30	-5.12	46.00	-19.83
503.36	S	Peak	26.19	28.59	-2.40	46.00	-19.81
808.91	S	Peak	30.62	27.38	3.24	46.00	-15.38

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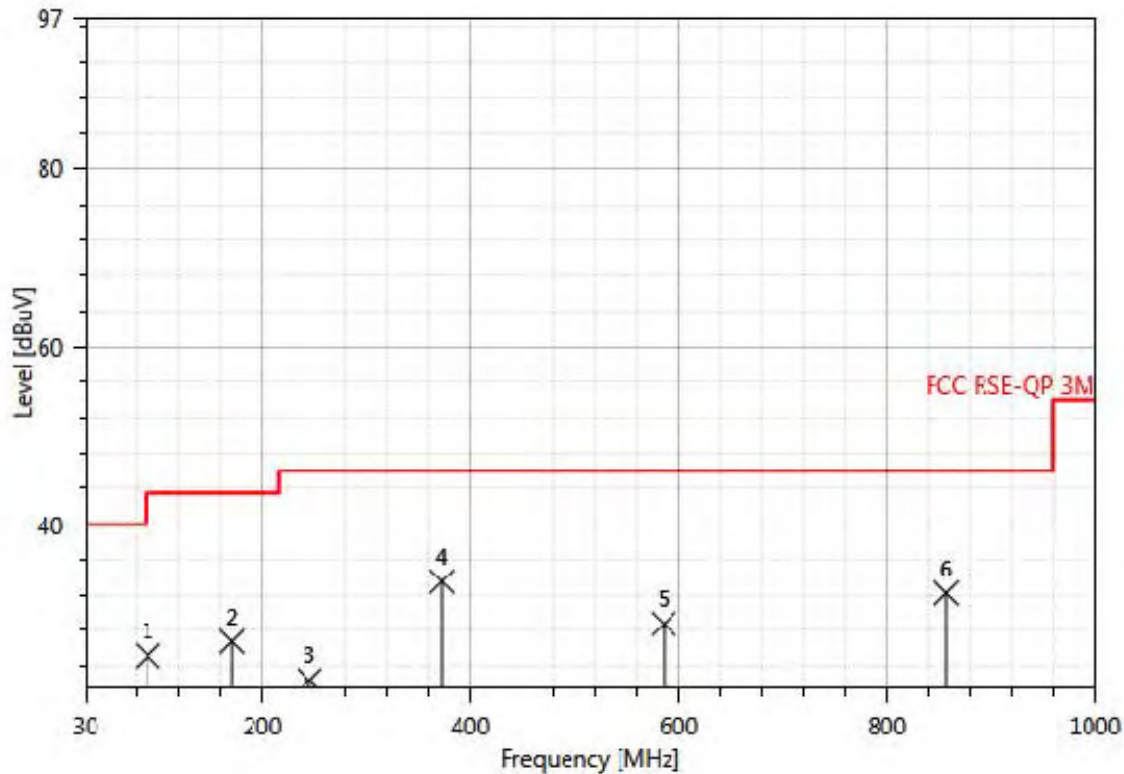
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Operation Mode : 802.11 ac80B2      Test Date : 08/04/2016  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
90.14	S	Peak	25.17	38.89	-13.72	43.50	-18.33
170.65	S	Peak	26.77	34.43	-7.66	43.50	-16.73
245.34	S	Peak	22.41	30.45	-8.03	46.00	-23.59
372.41	S	Peak	33.53	38.07	-4.53	46.00	-12.47
585.81	S	Peak	28.78	28.74	0.04	46.00	-17.22
857.41	S	Peak	32.23	27.70	4.52	46.00	-13.77

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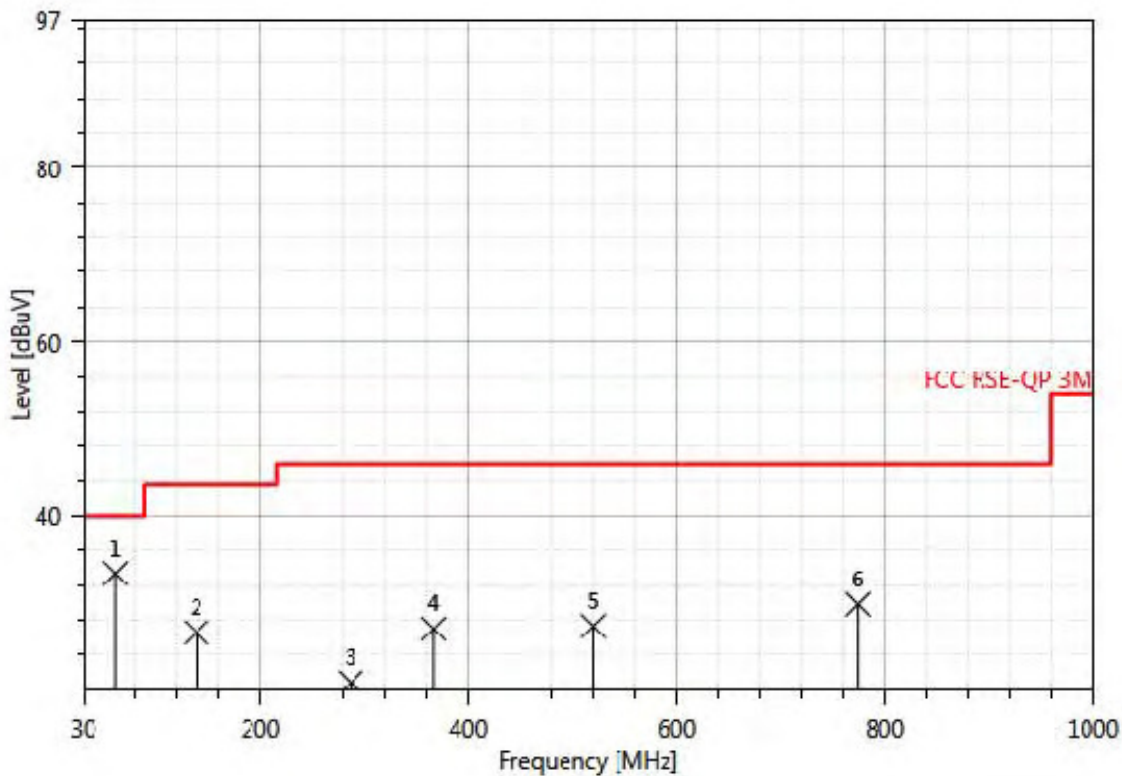
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### 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	33.38	41.63	-8.25	40.00	-6.62
138.64	S	Peak	26.59	35.08	-8.49	43.50	-16.91
287.05	S	Peak	20.83	27.02	-6.19	46.00	-25.17
366.59	S	Peak	27.01	31.73	-4.72	46.00	-18.99
519.85	S	Peak	27.33	28.96	-1.62	46.00	-18.67
773.99	S	Peak	29.83	27.05	2.77	46.00	-16.17

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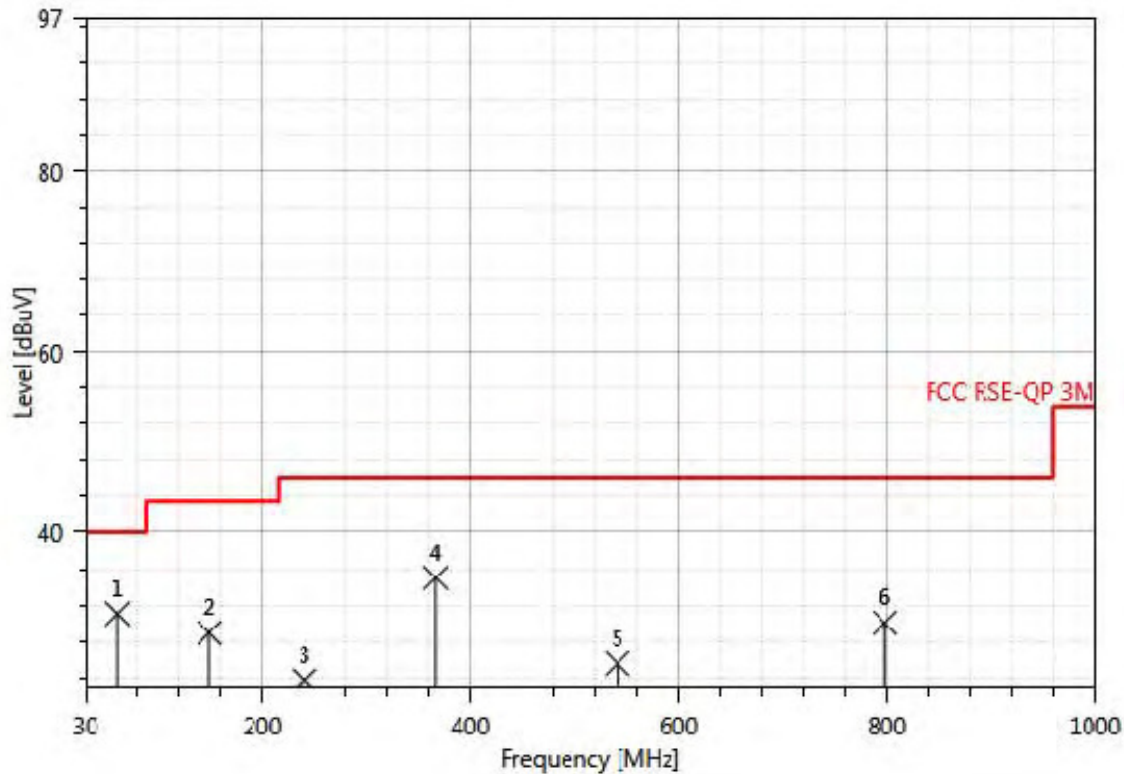
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Operation Mode : 802.11 ac80B3      Test Date : 08/04/2016  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	31.03	39.28	-8.25	40.00	-8.97
149.31	S	Peak	28.91	36.72	-7.82	43.50	-14.59
240.49	S	Peak	23.65	31.68	-8.03	46.00	-22.35
366.59	S	Peak	35.00	39.72	-4.72	46.00	-11.00
541.19	S	Peak	25.56	27.33	-1.78	46.00	-20.44
798.24	S	Peak	30.00	26.90	3.11	46.00	-16.00

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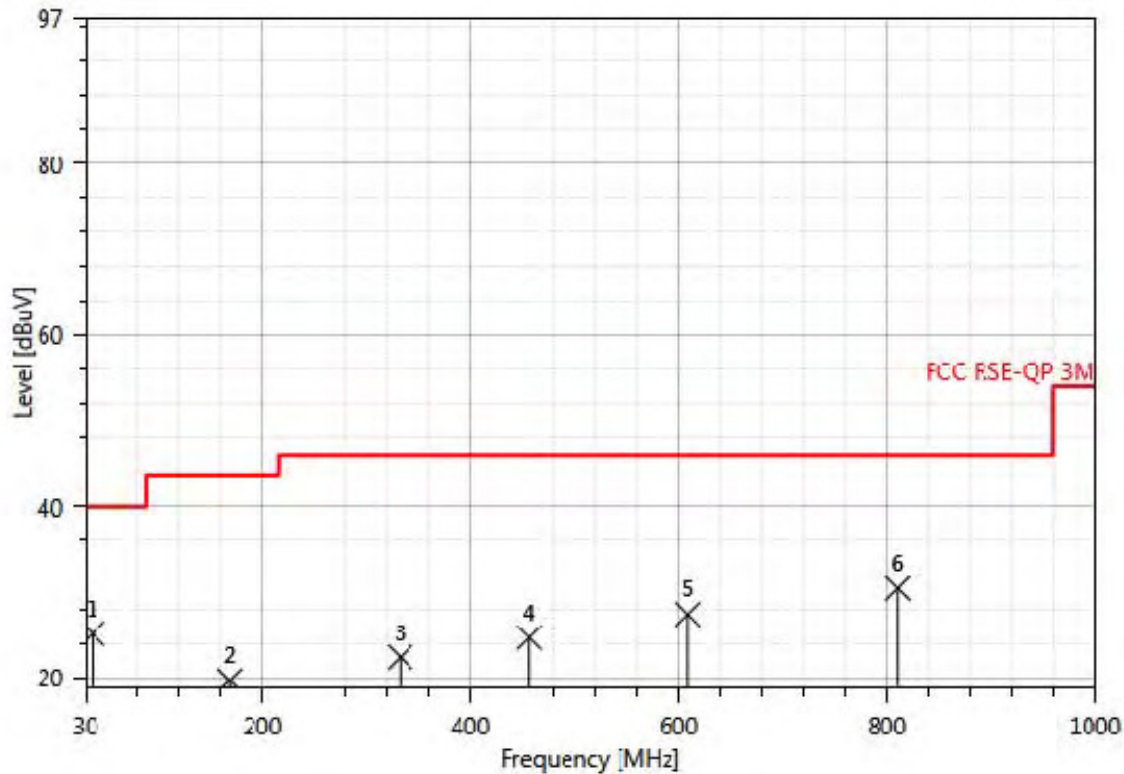
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Operation Mode : 802.11 ac80B3      Test Date : 08/04/2016  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
36.79	S	Peak	25.14	33.97	-8.84	40.00	-14.86
168.71	S	Peak	19.69	27.22	-7.53	43.50	-23.81
332.64	S	Peak	22.41	27.72	-5.30	46.00	-23.59
456.80	S	Peak	24.68	27.34	-2.65	46.00	-21.32
609.09	S	Peak	27.39	27.72	-0.33	46.00	-18.61
810.85	S	Peak	30.40	27.13	3.27	46.00	-15.60

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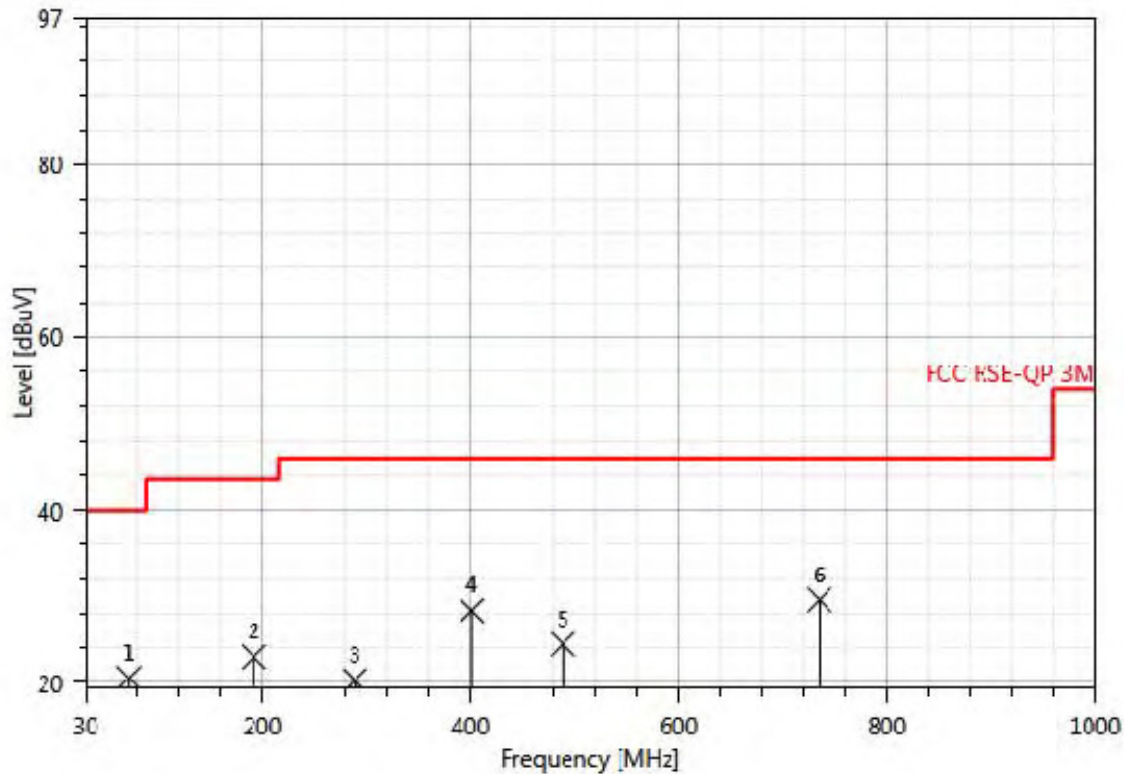
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Operation Mode : 802.11 ac80B3      Test Date : 08/04/2016  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
71.71	S	Peak	20.56	31.18	-10.62	40.00	-19.44
191.99	S	Peak	22.99	32.41	-9.42	43.50	-20.51
288.99	S	Peak	20.27	26.36	-6.08	46.00	-25.73
401.51	S	Peak	28.37	32.31	-3.95	46.00	-17.63
488.81	S	Peak	24.46	26.84	-2.38	46.00	-21.54
735.19	S	Peak	29.59	27.58	2.01	46.00	-16.41

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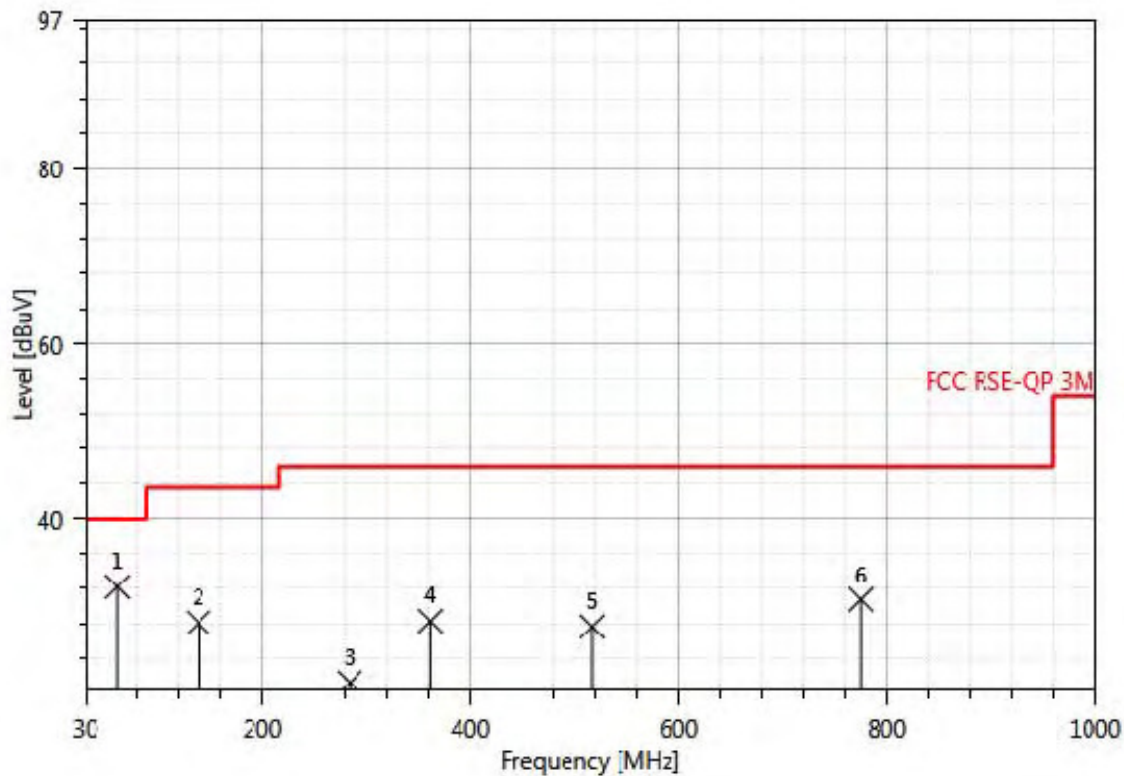
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### 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11 ac80B4	Test Date :	08/04/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	32.21	40.46	-8.25	40.00	-7.79
138.64	S	Peak	28.10	36.59	-8.49	43.50	-15.40
284.14	S	Peak	21.26	27.49	-6.23	46.00	-24.74
361.74	S	Peak	28.30	33.10	-4.80	46.00	-17.70
516.94	S	Peak	27.65	29.59	-1.94	46.00	-18.35
774.96	S	Peak	30.75	27.98	2.76	46.00	-15.25

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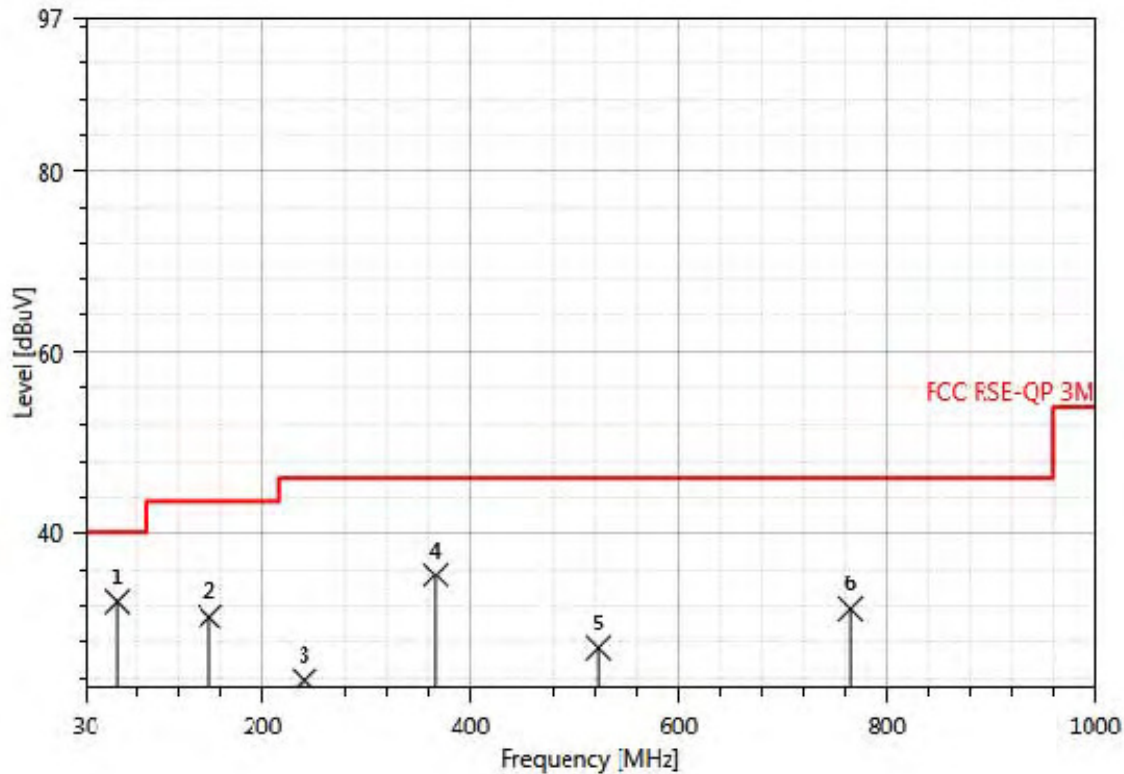
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Operation Mode : 802.11 ac80B4      Test Date : 08/04/2016  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
61.04	S	Peak	32.39	40.64	-8.25	40.00	-7.61
149.31	S	Peak	30.74	38.55	-7.82	43.50	-12.76
240.49	S	Peak	23.69	31.73	-8.03	46.00	-22.31
366.59	S	Peak	35.35	40.07	-4.72	46.00	-10.65
522.76	S	Peak	27.25	28.91	-1.66	46.00	-18.75
765.26	S	Peak	31.64	28.53	3.11	46.00	-14.36

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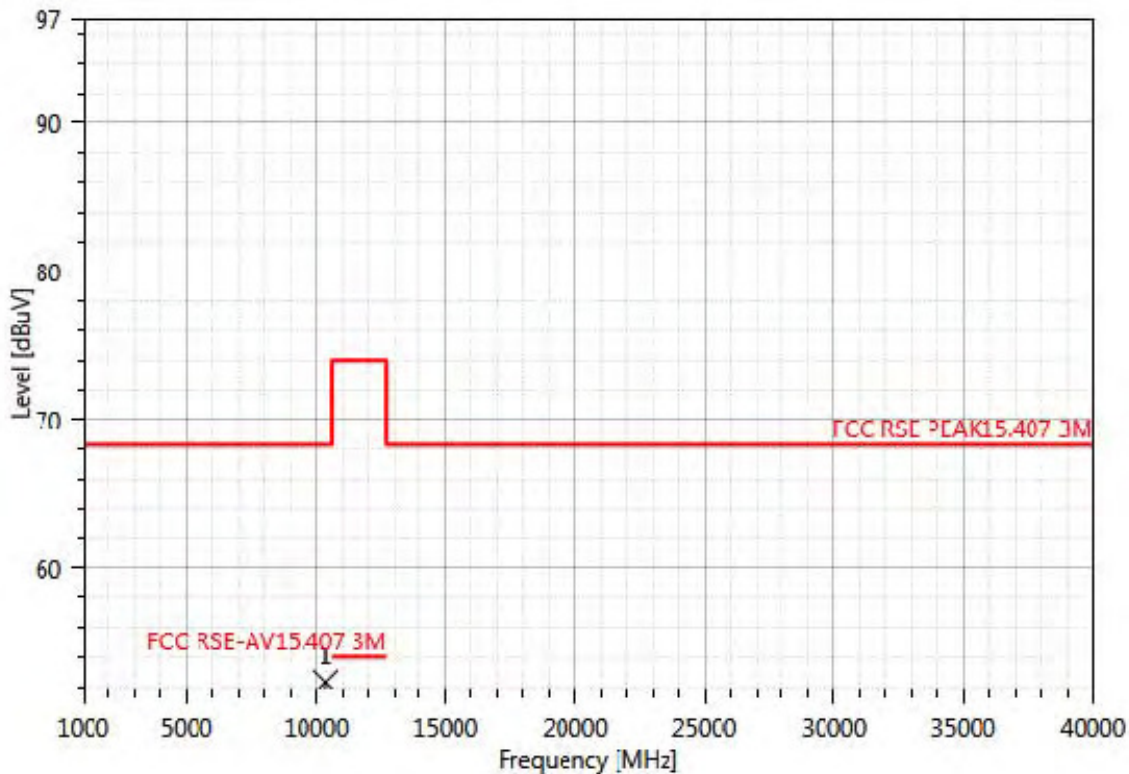
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	52.32	34.03	18.29	68.30	-15.98

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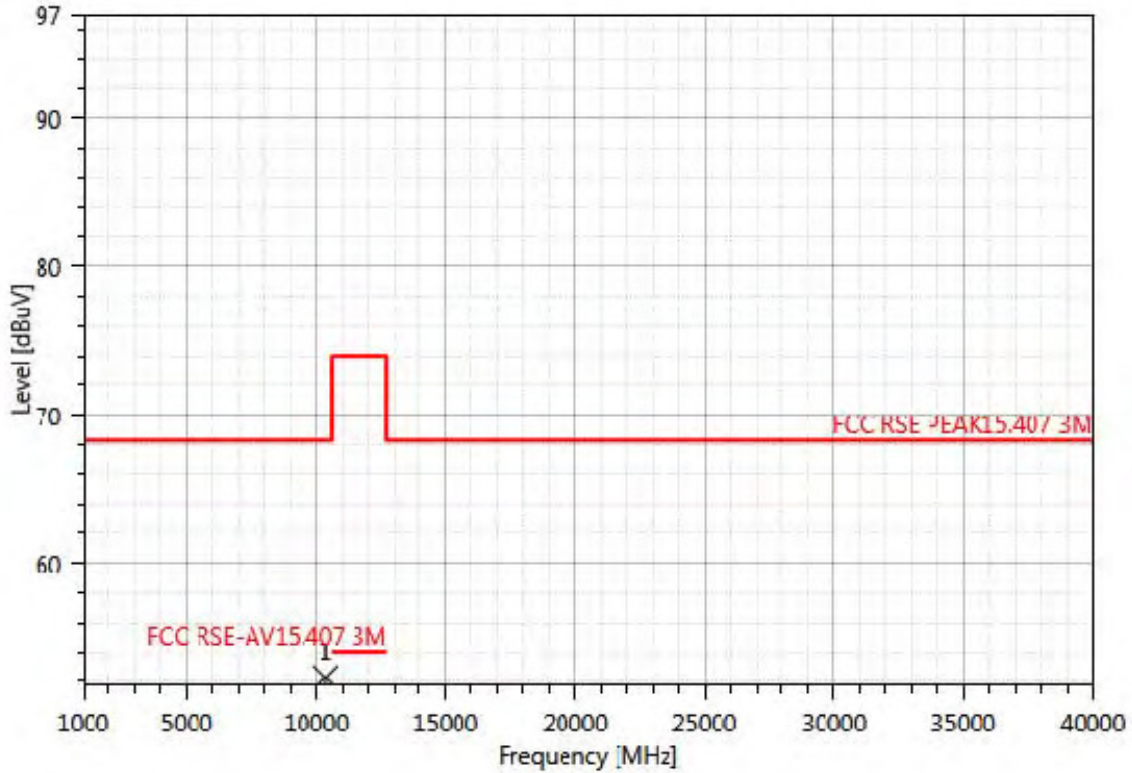
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	52.30	34.00	18.29	68.30	-16.00

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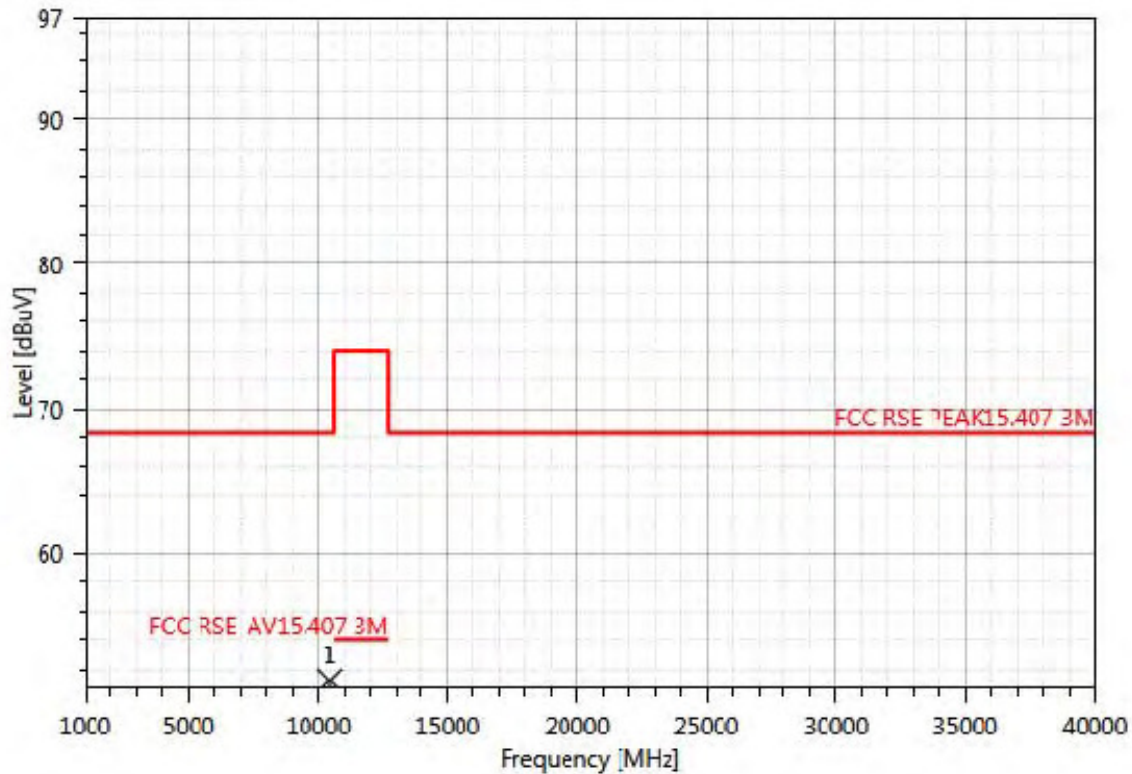
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	51.22	32.54	18.68	68.30	-17.08

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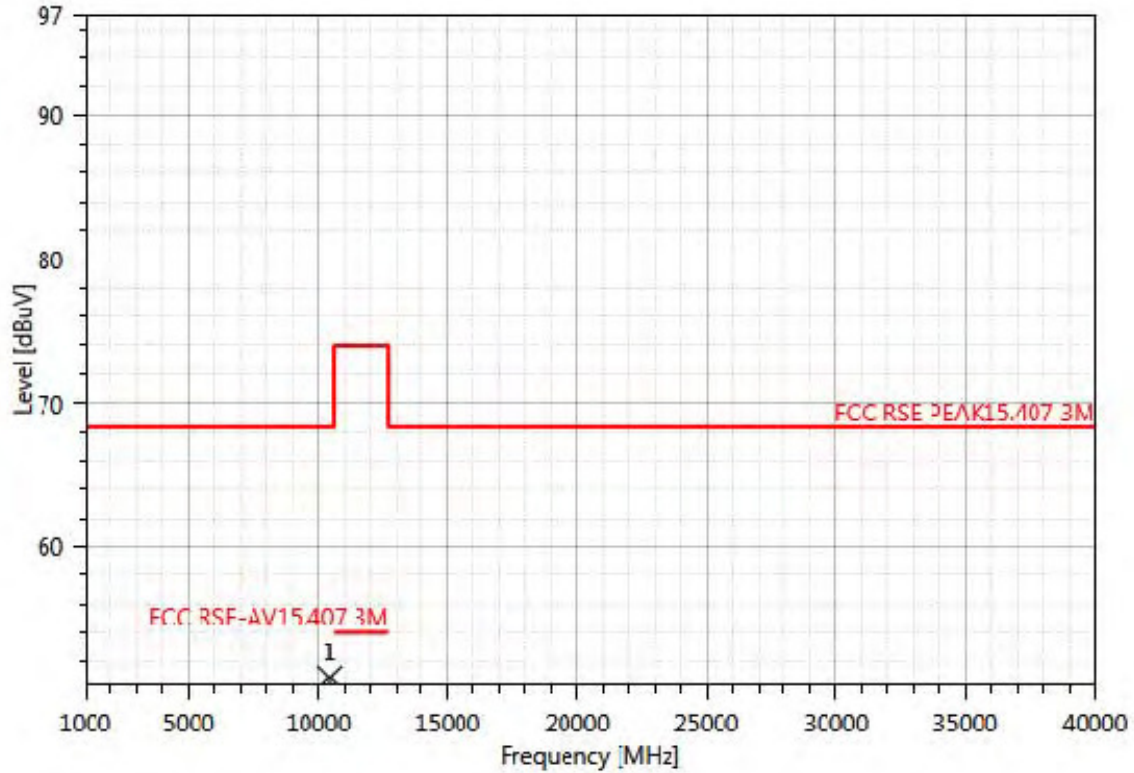
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	50.90	32.22	18.68	68.30	-17.40

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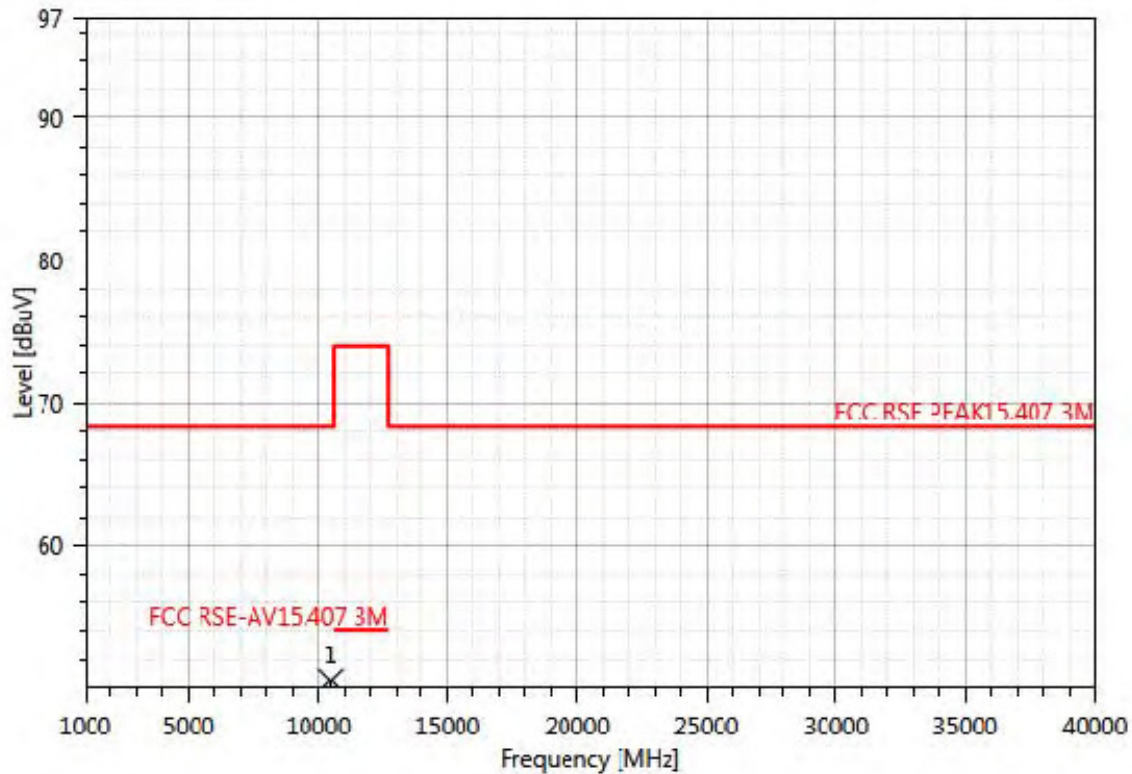
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	50.54	32.25	18.29	68.30	-17.76

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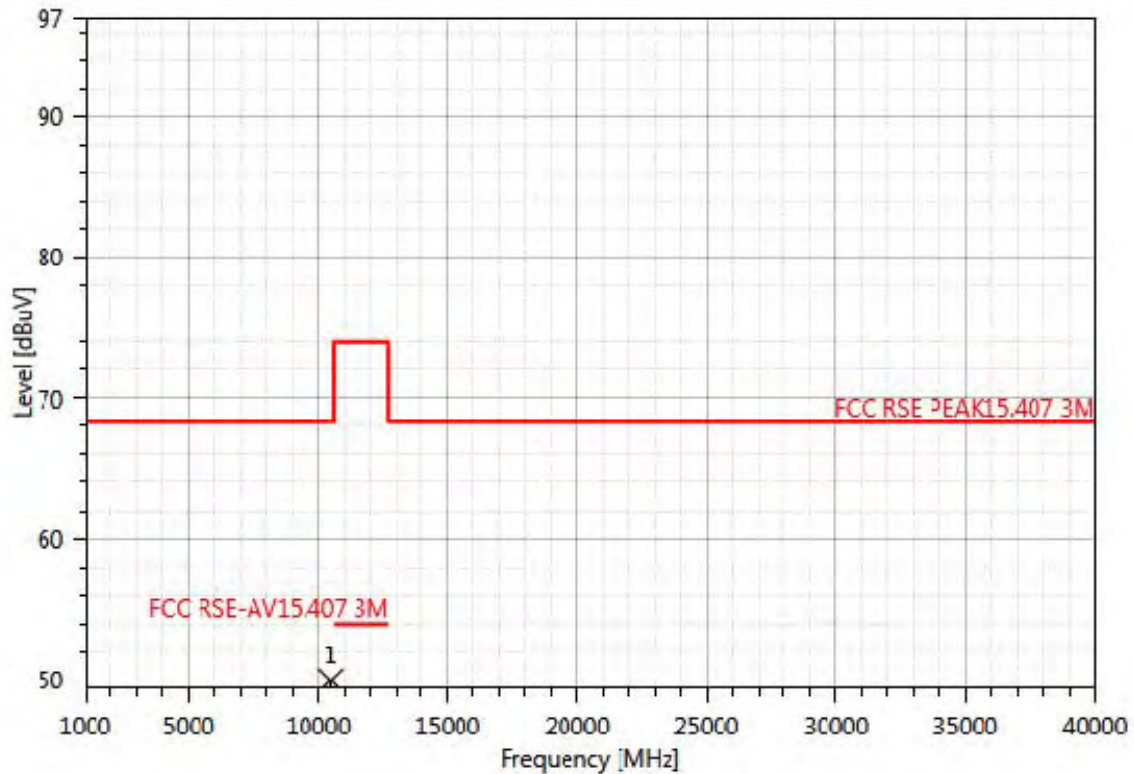
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Operation Mode :	802.11 aB1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	49.96	31.67	18.29	68.30	-18.34

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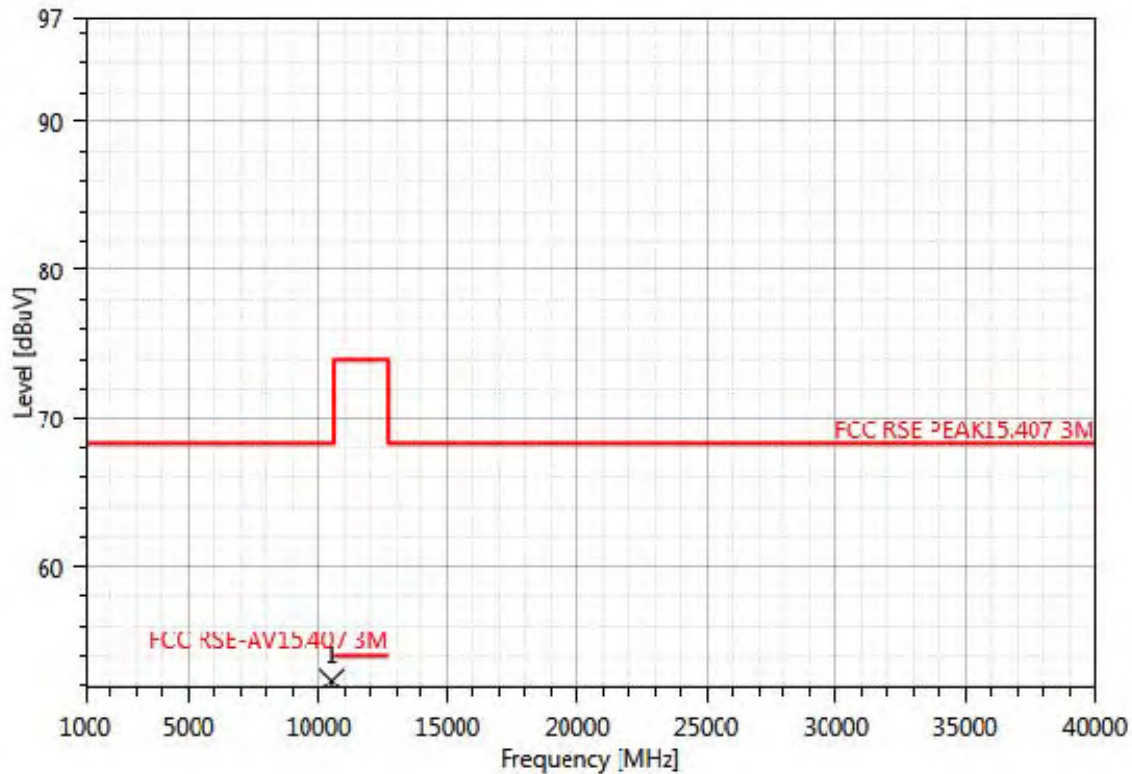
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.34	32.97	19.37	68.30	-15.96

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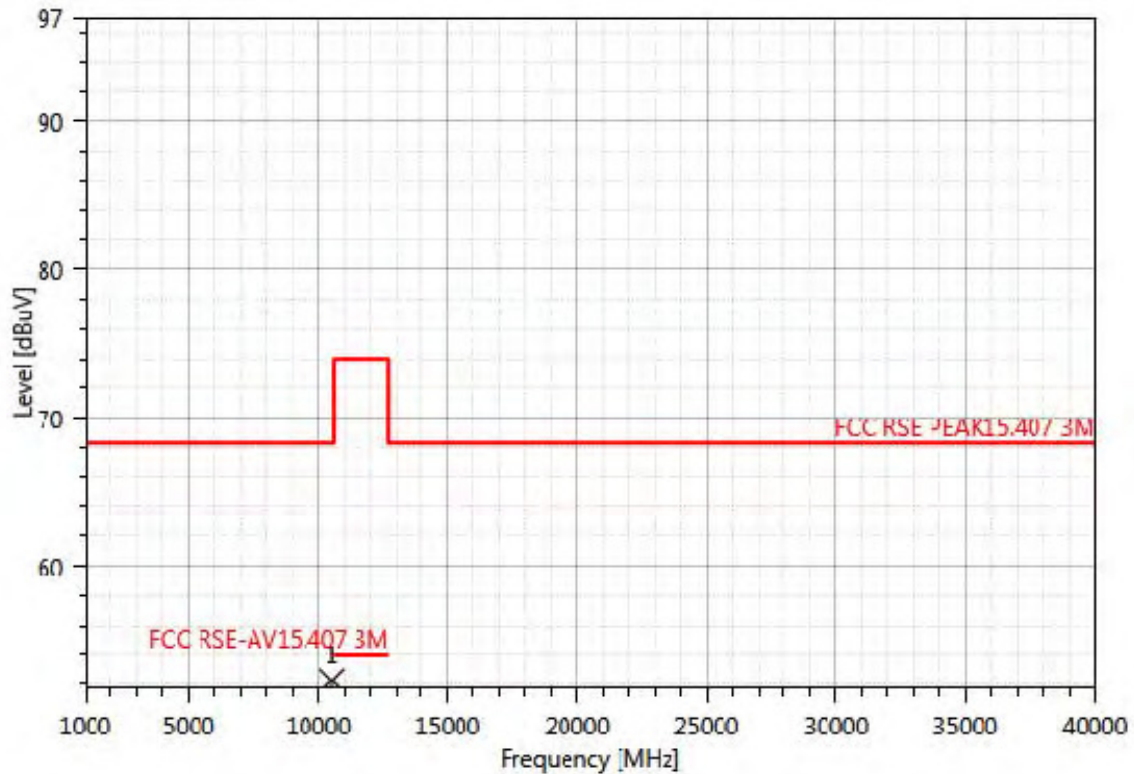
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.27	32.90	19.37	68.30	-16.03

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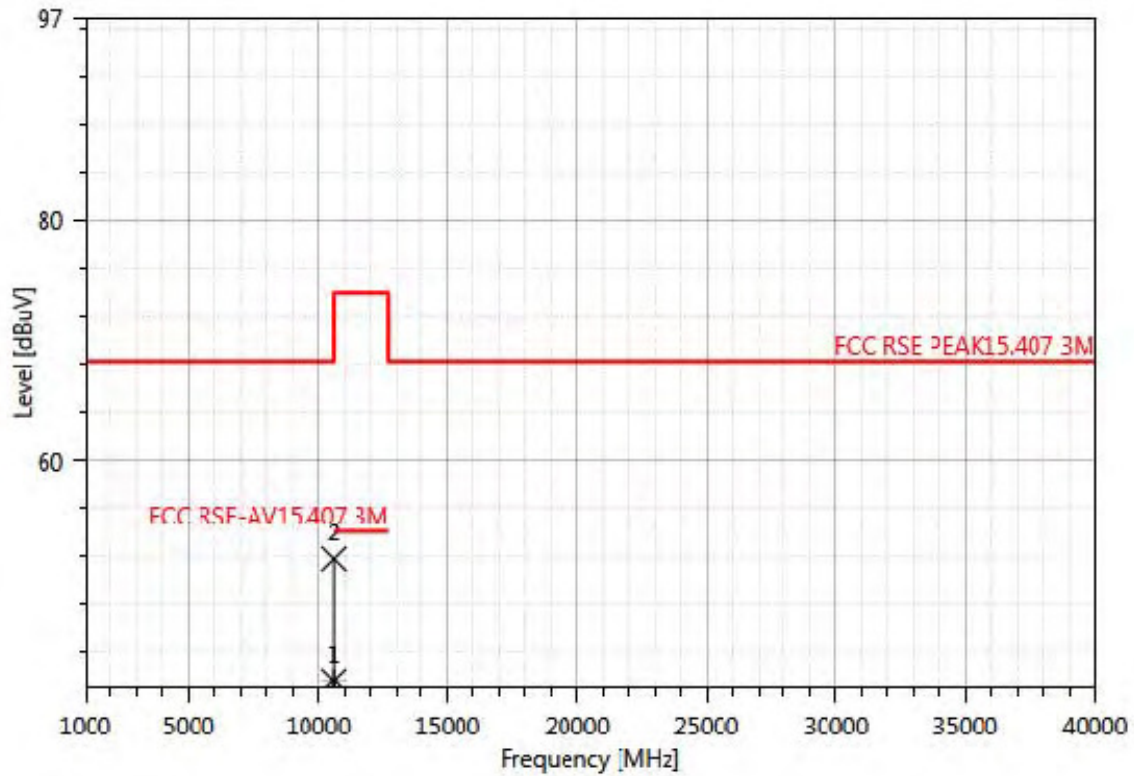
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	41.56	22.65	18.91	54.00	-12.44
10600.00	H	Peak	51.75	32.85	18.91	74.00	-22.25

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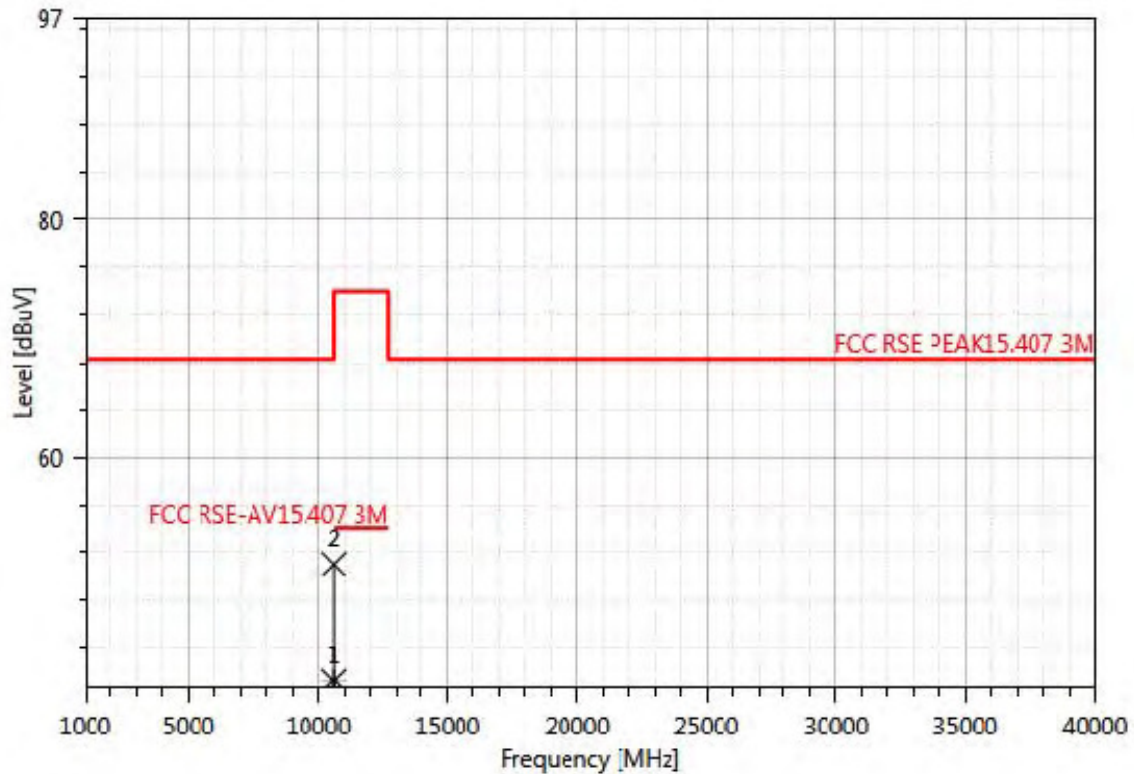
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	41.26	22.35	18.91	54.00	-12.74
10600.00	H	Peak	51.04	32.13	18.91	74.00	-22.96

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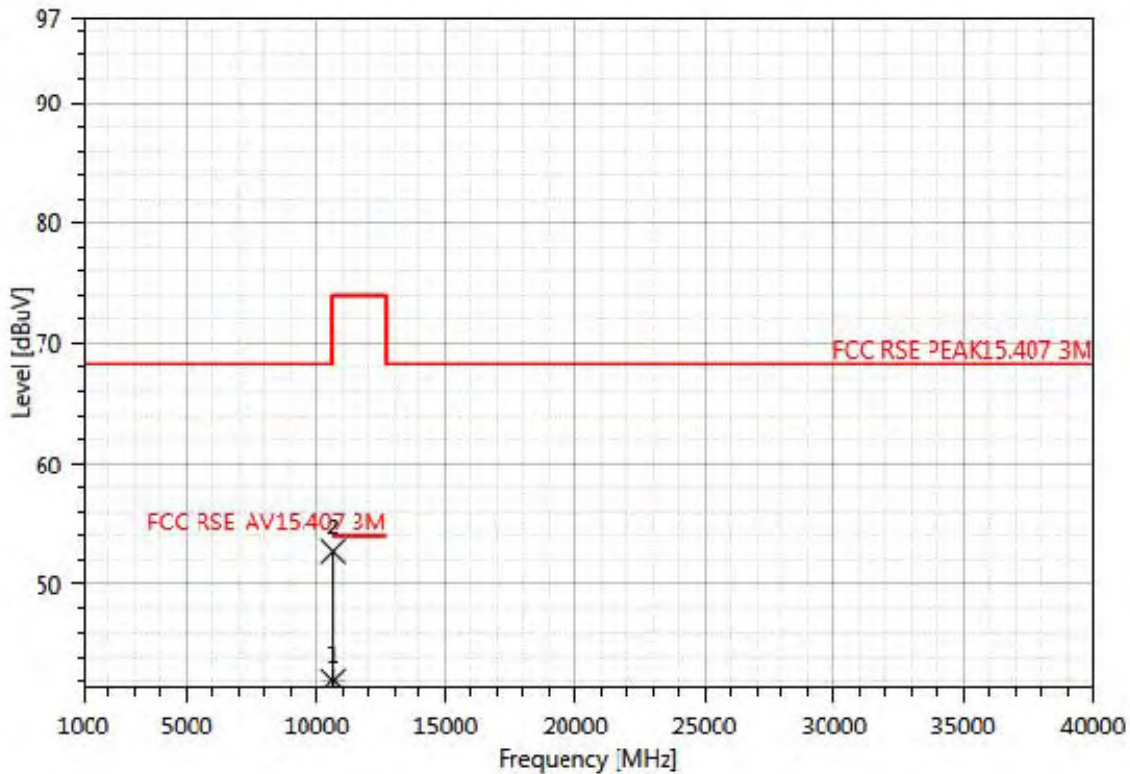
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10640.00	H	Average	42.06	22.88	19.18	54.00	-11.94
10640.00	H	Peak	52.76	33.57	19.18	74.00	-21.24

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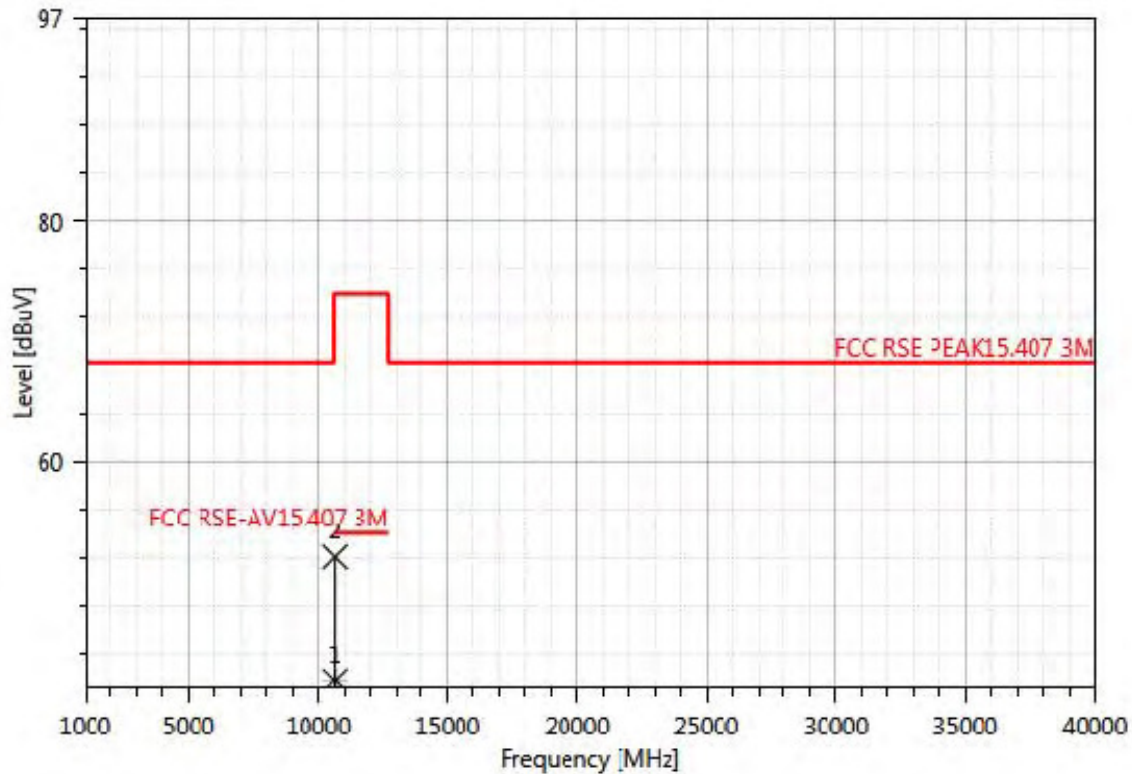
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Operation Mode :	802.11 aB2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10640.00	H	Average	41.72	22.54	19.18	54.00	-12.28
10640.00	H	Peak	52.06	32.87	19.18	74.00	-21.94

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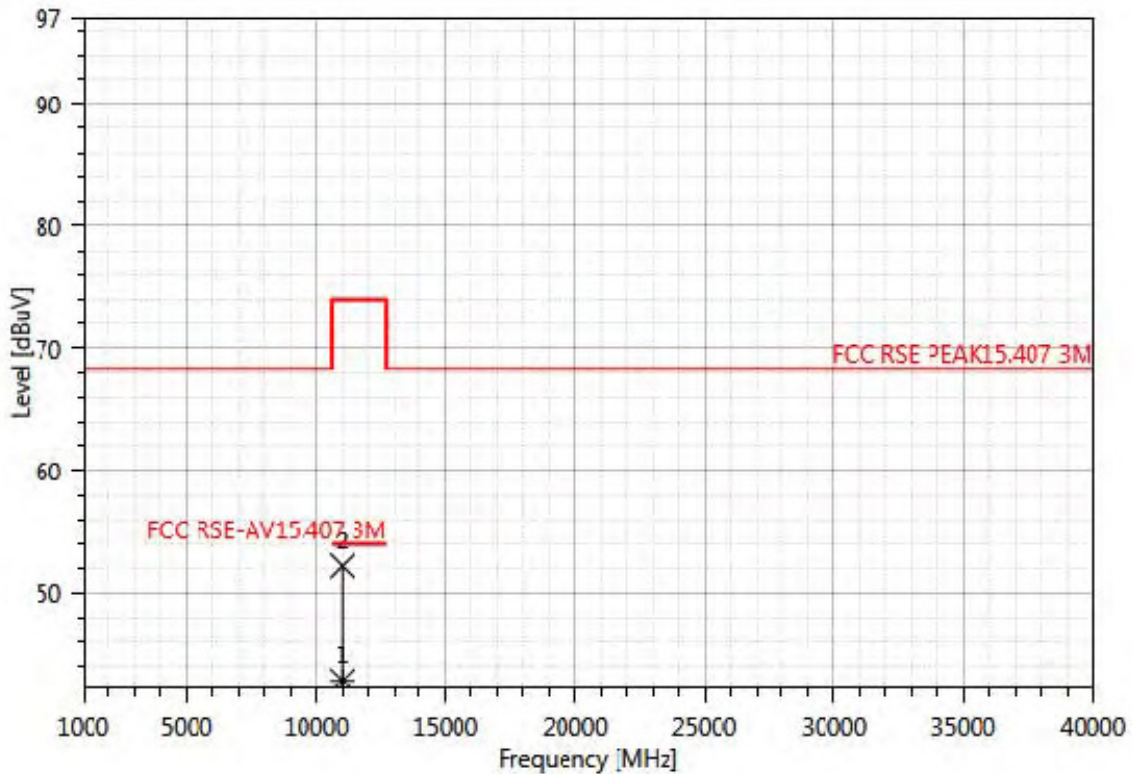
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	42.85	22.68	20.17	54.00	-11.15
11000.00	H	Peak	52.25	32.09	20.17	74.00	-21.75

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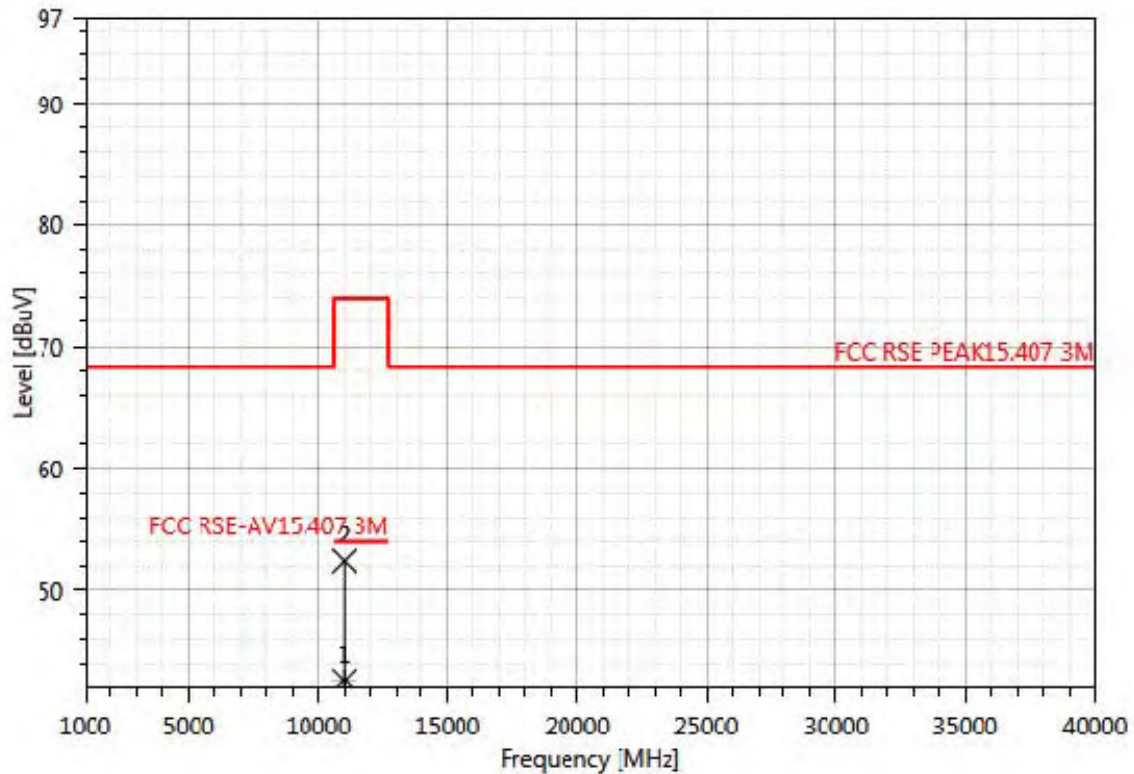
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	42.61	22.44	20.17	54.00	-11.39
11000.00	H	Peak	52.45	32.28	20.17	74.00	-21.55

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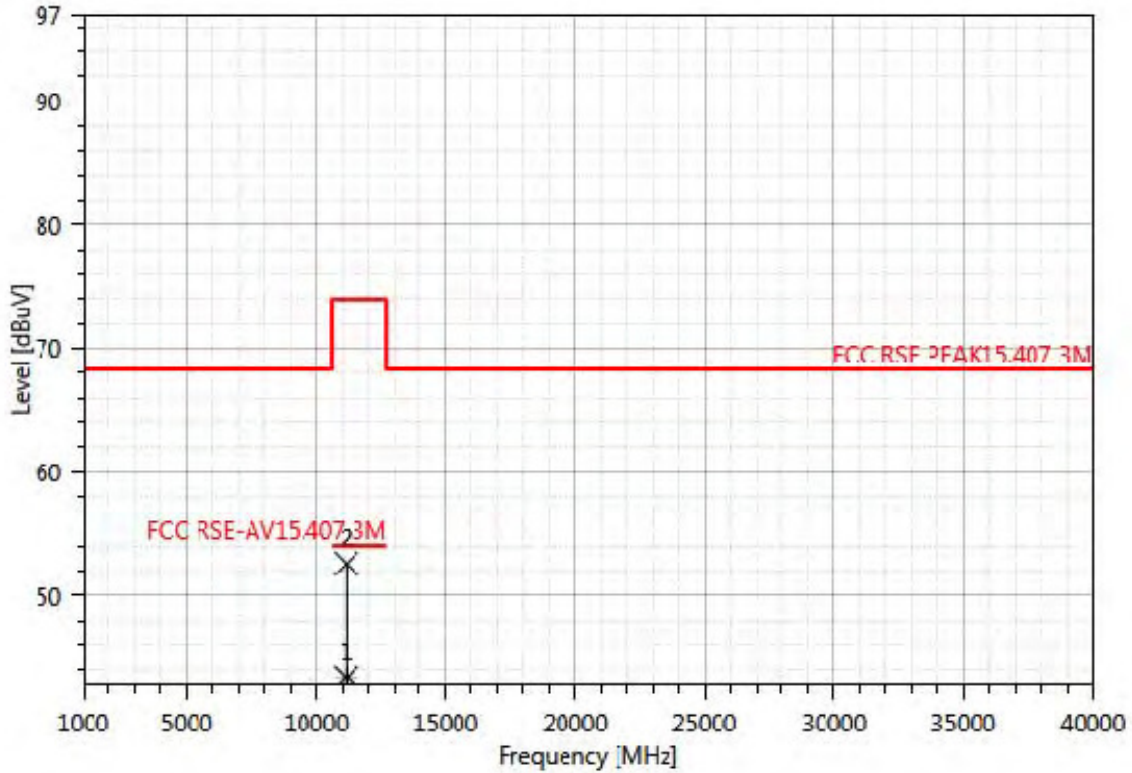
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11160.00	H	Average	43.36	22.91	20.45	54.00	-10.64
11160.00	H	Peak	52.57	32.12	20.45	74.00	-21.43

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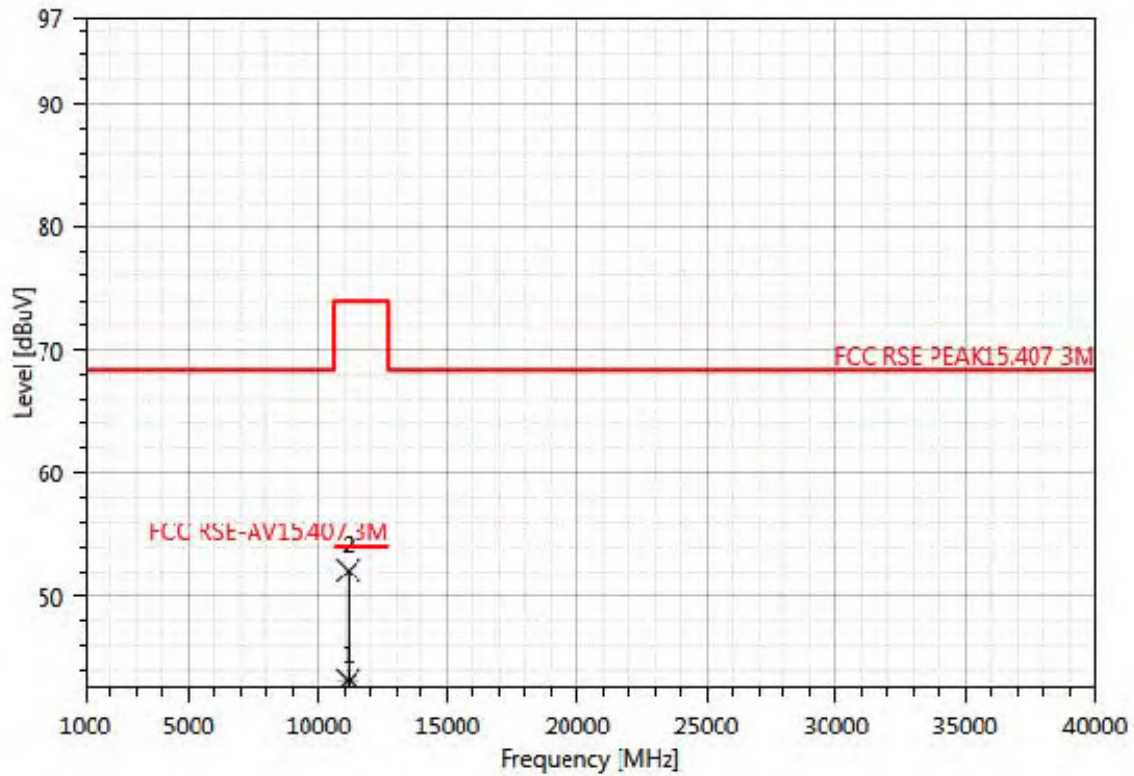
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11160.00	H	Average	43.16	22.71	20.45	54.00	-10.84
11160.00	H	Peak	52.08	31.63	20.45	74.00	-21.92

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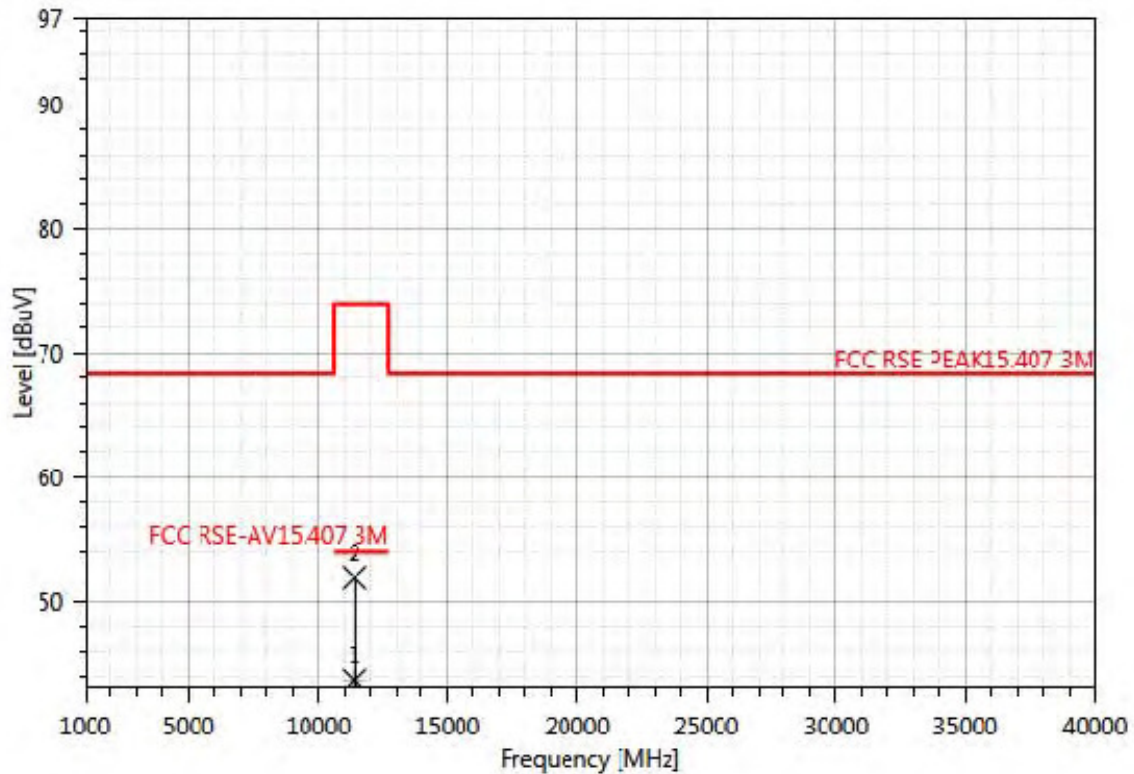
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11400.00	H	Average	43.64	23.08	20.56	54.00	-10.36
11400.00	H	Peak	51.91	31.35	20.56	74.00	-22.09

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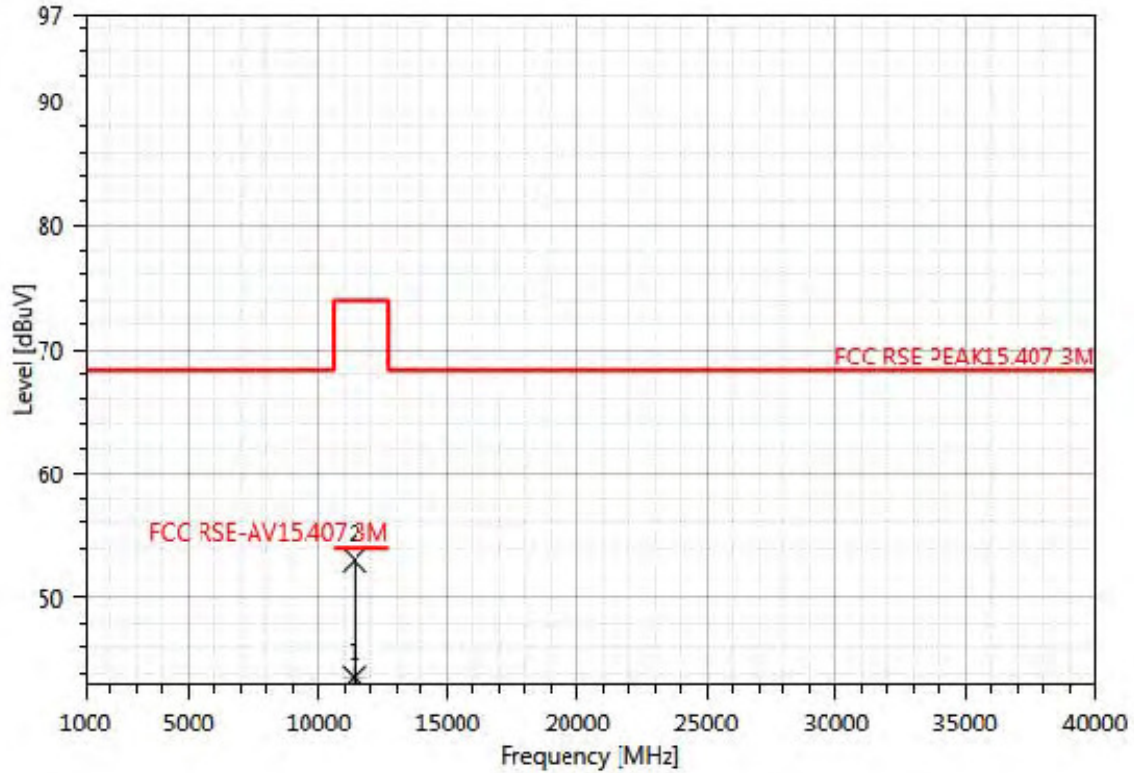
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Operation Mode :	802.11 aB3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11400.00	H	Average	43.58	23.02	20.56	54.00	-10.42
11400.00	H	Peak	53.09	32.53	20.56	74.00	-20.91

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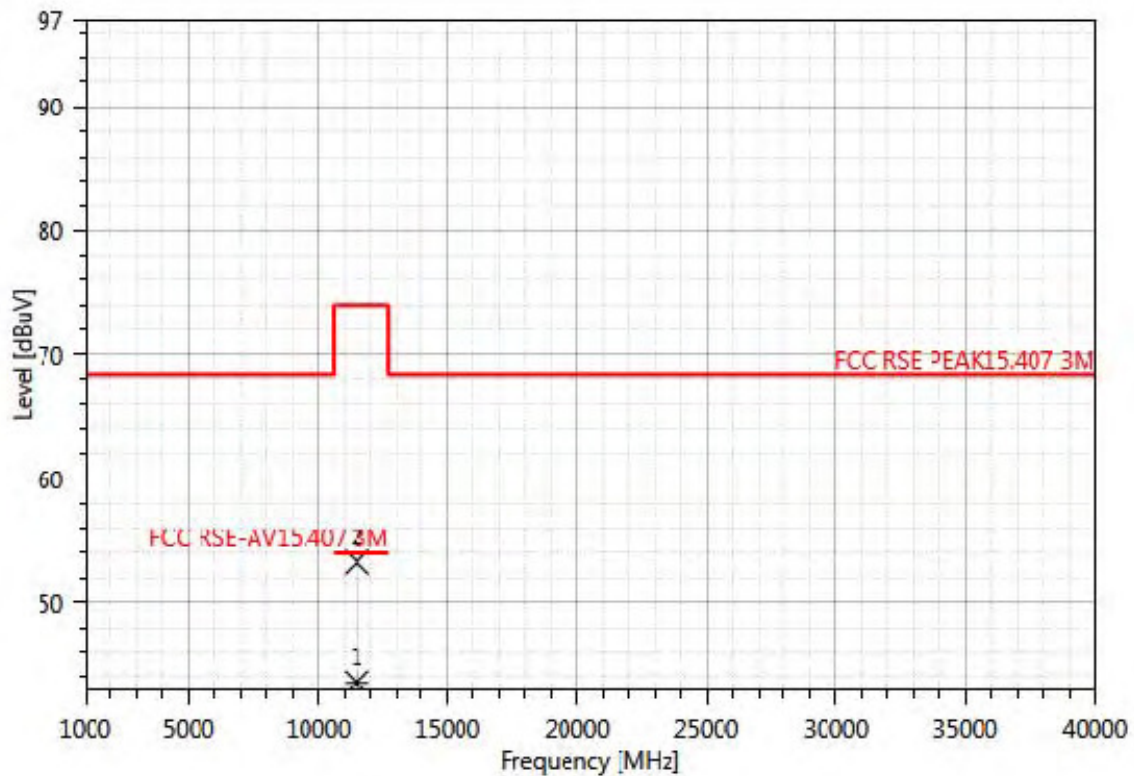
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	43.53	23.11	20.42	54.00	-10.47
11490.00	H	Peak	53.28	32.86	20.42	74.00	-20.72

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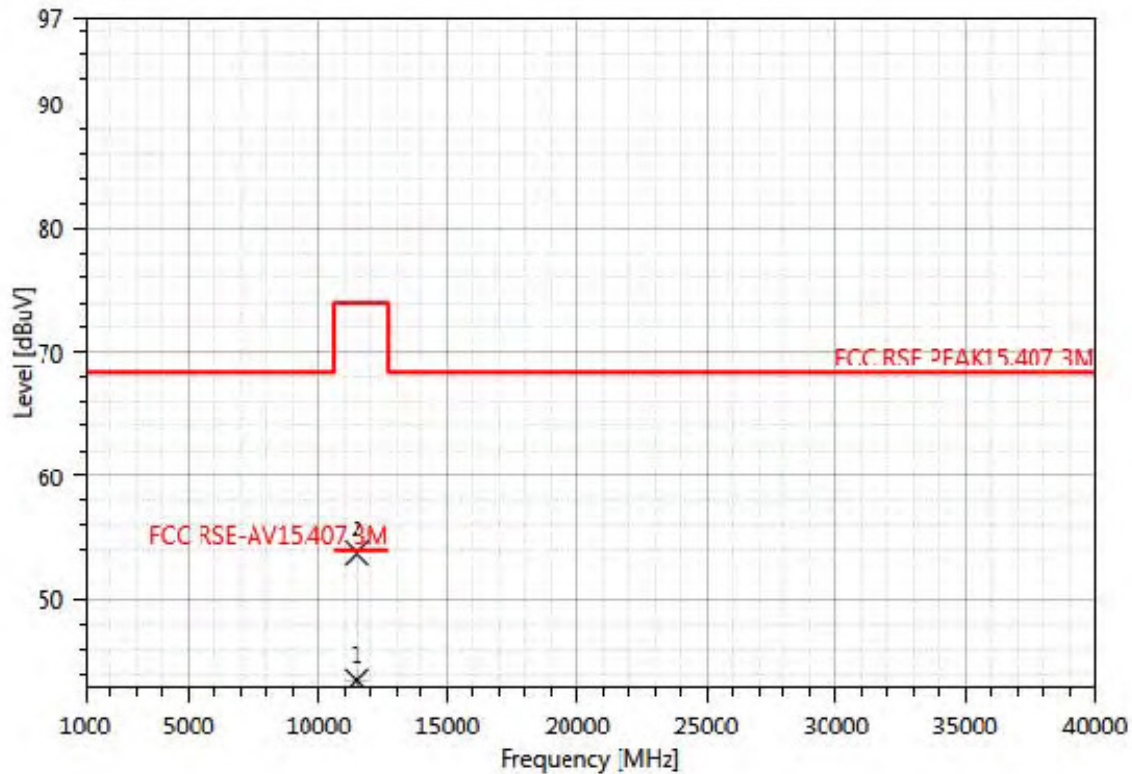
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	43.48	23.06	20.42	54.00	-10.52
11490.00	H	Peak	53.78	33.36	20.42	74.00	-20.22

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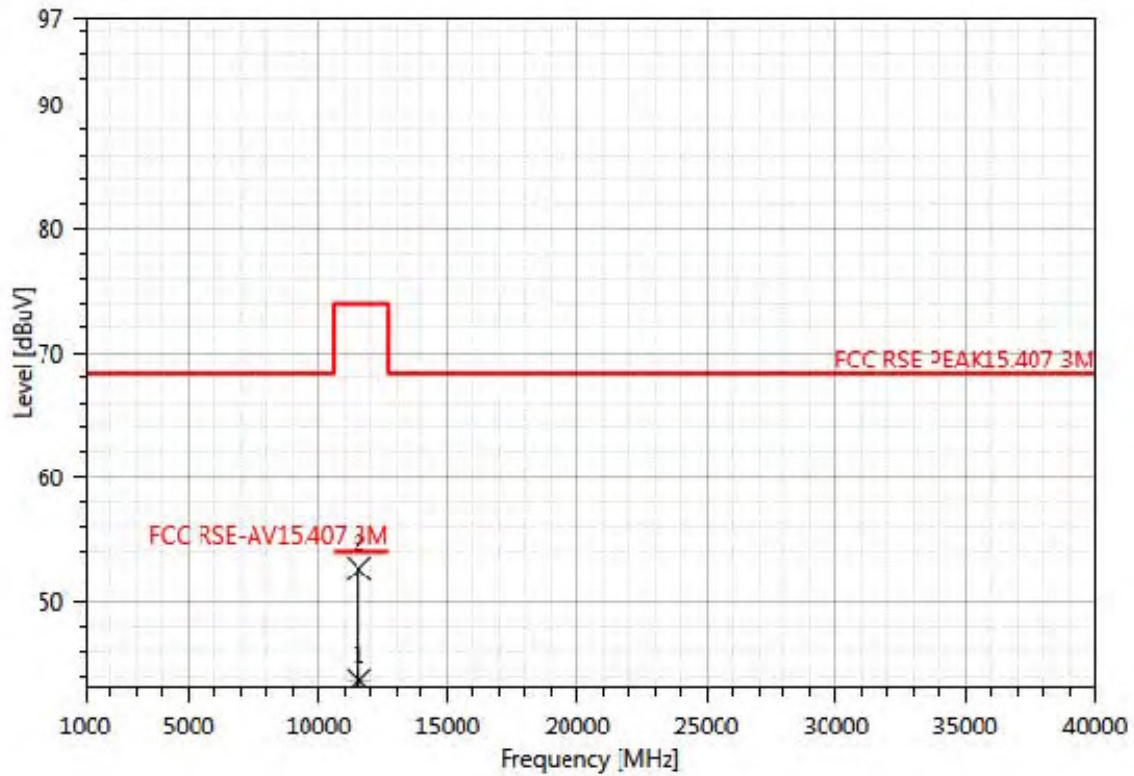
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11570.00	H	Average	43.64	23.05	20.59	54.00	-10.36
11570.00	H	Peak	52.63	32.04	20.59	74.00	-21.37

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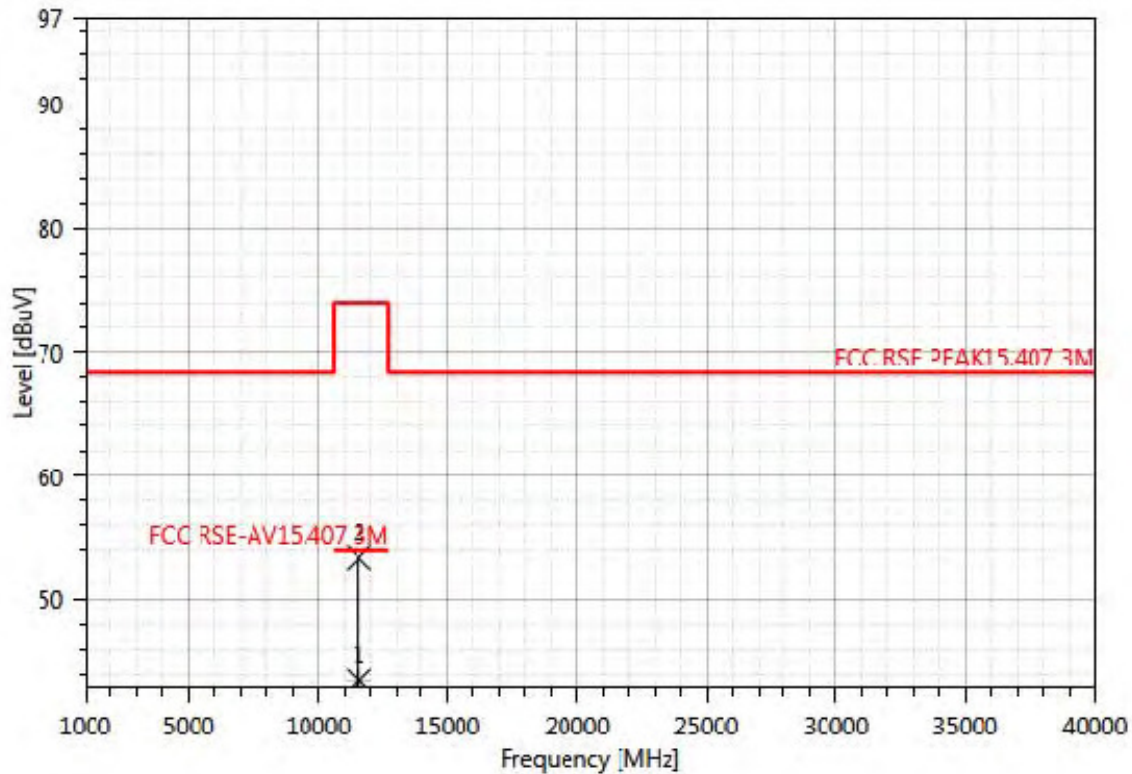
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11570.00	H	Average	43.48	22.89	20.59	54.00	-10.52
11570.00	H	Peak	53.40	32.82	20.59	74.00	-20.60

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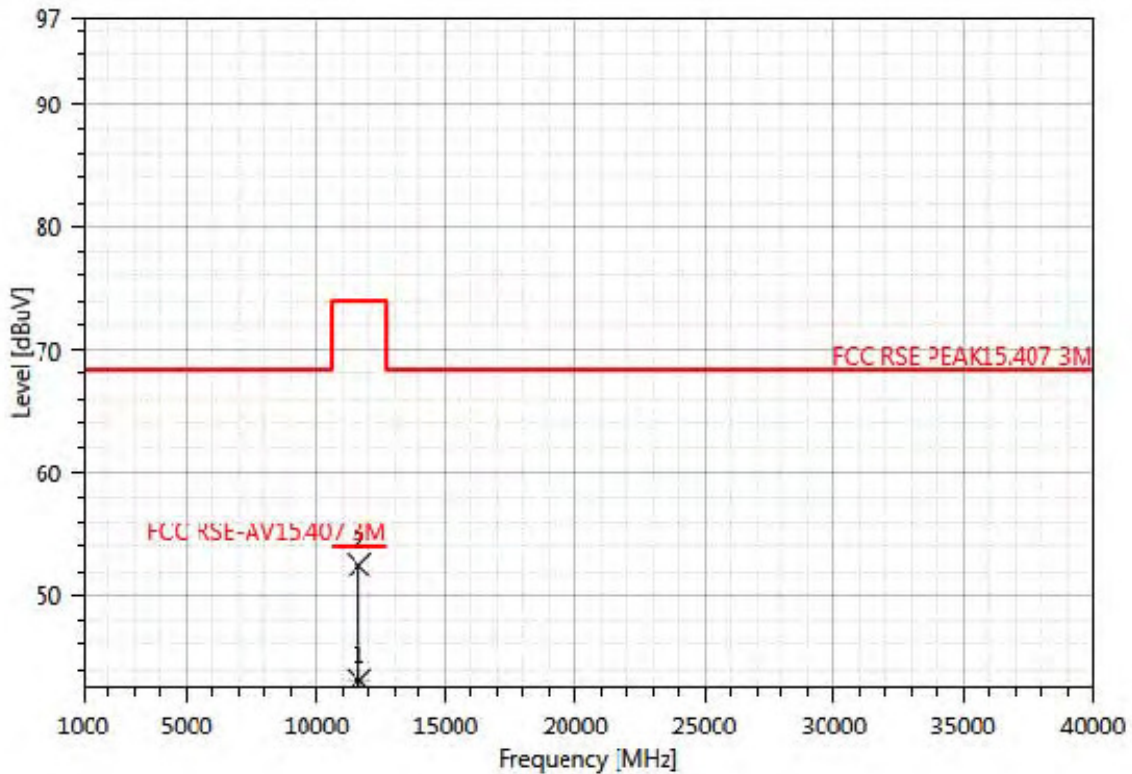
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	43.11	22.68	20.43	54.00	-10.89
11650.00	H	Peak	52.49	32.06	20.43	74.00	-21.51

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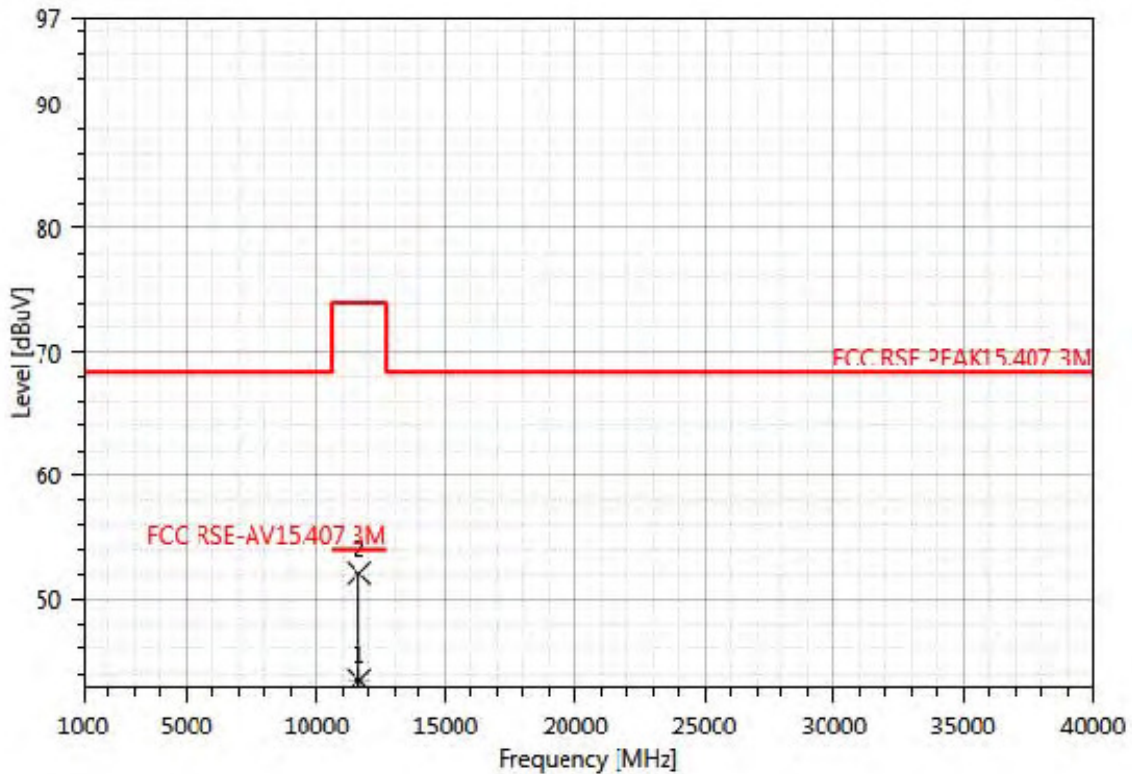
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Operation Mode :	802.11 aB4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	43.45	23.01	20.43	54.00	-10.55
11650.00	H	Peak	52.09	31.66	20.43	74.00	-21.91

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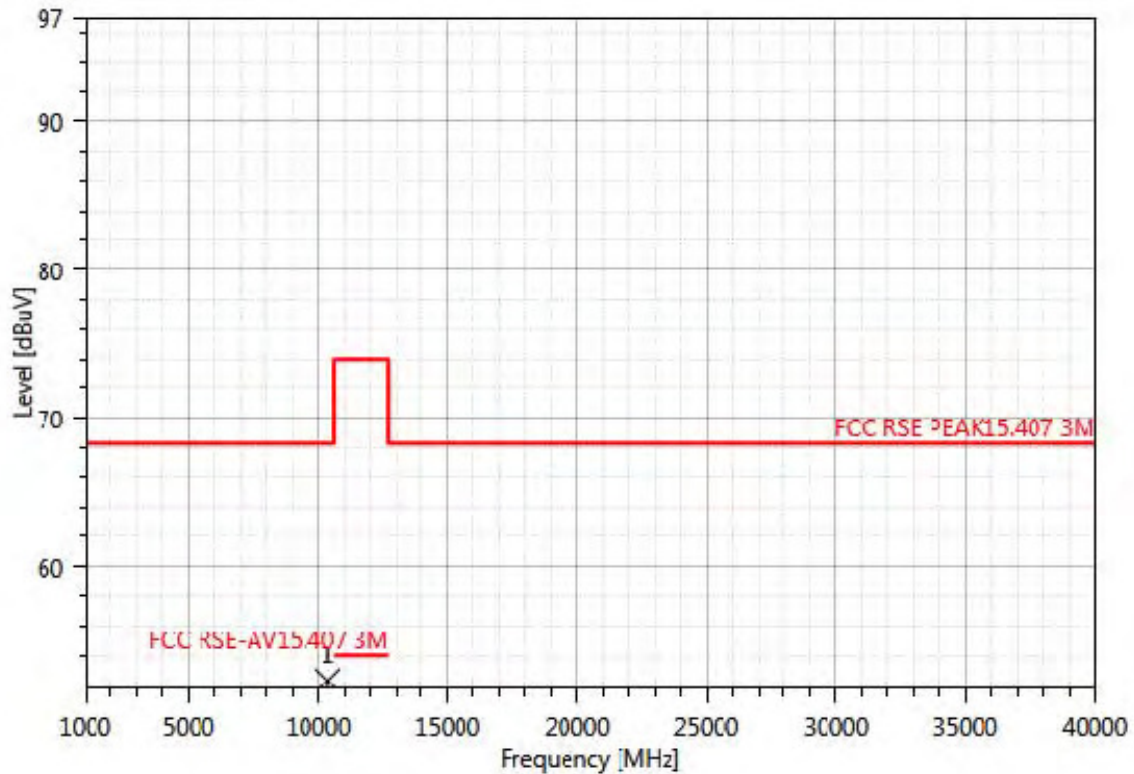
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	52.31	34.01	18.29	68.30	-15.99

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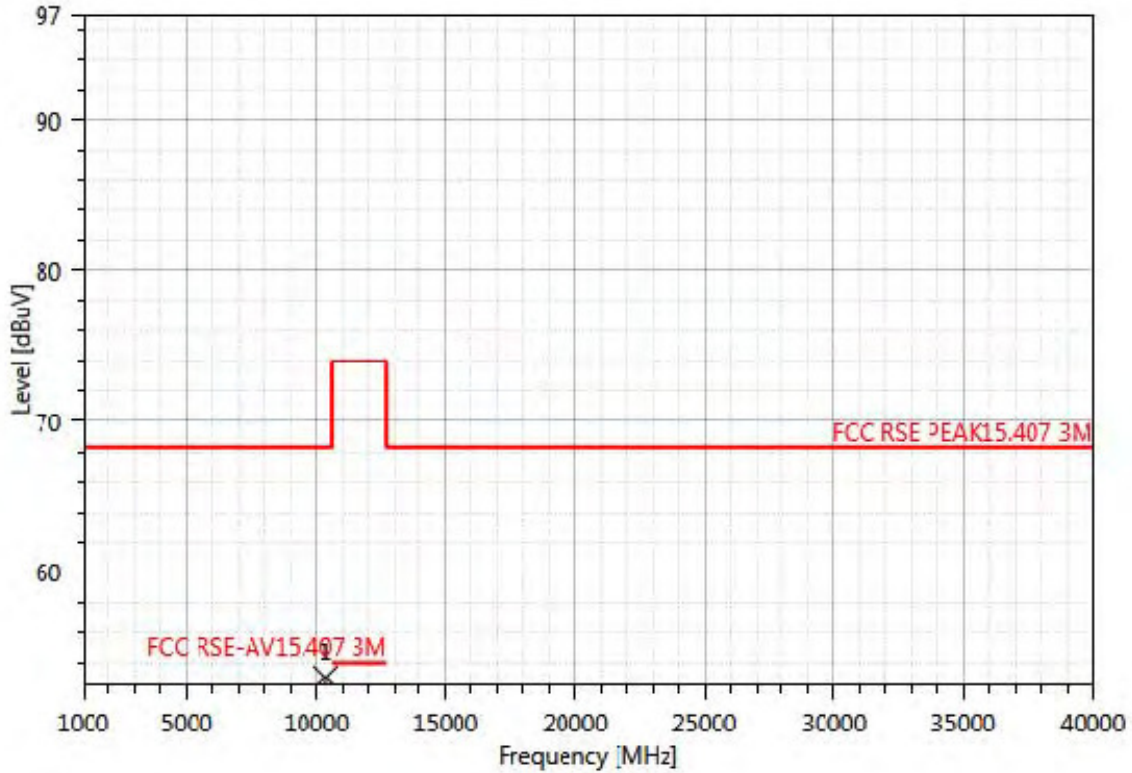
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Operation Mode :	802.11 n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	53.01	34.72	18.29	68.30	-15.29

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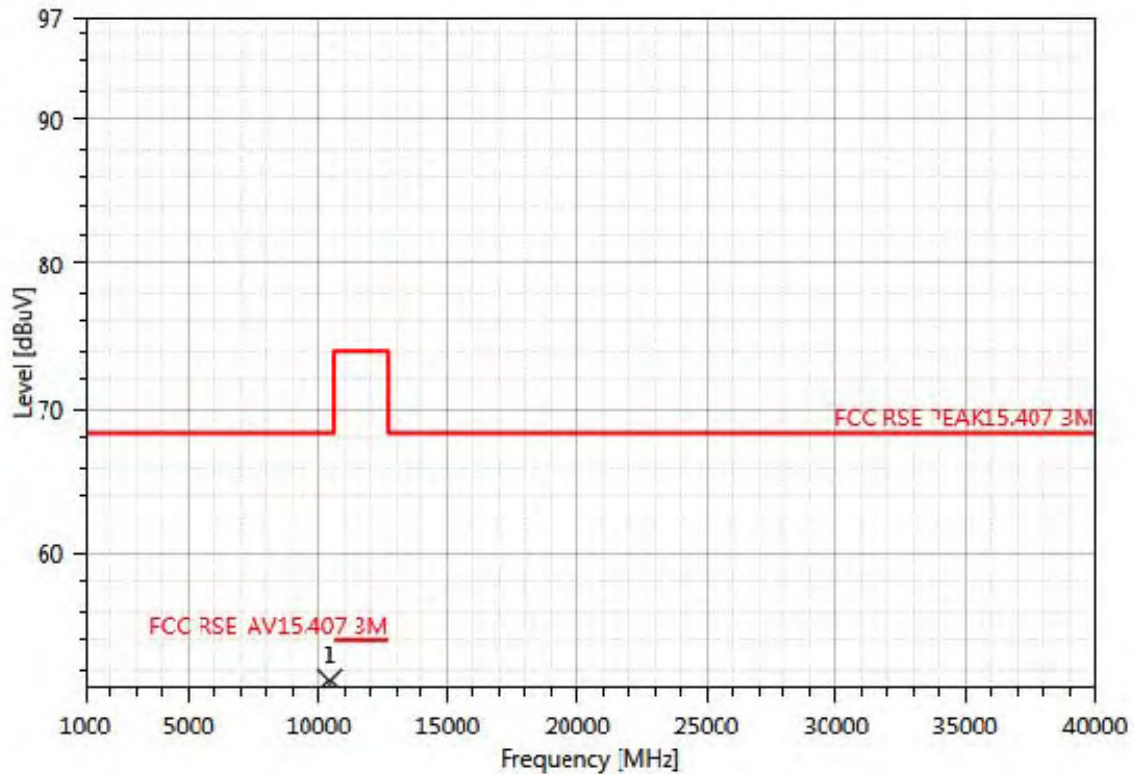
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Operation Mode :	802.11 n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	51.25	32.56	18.68	68.30	-17.05

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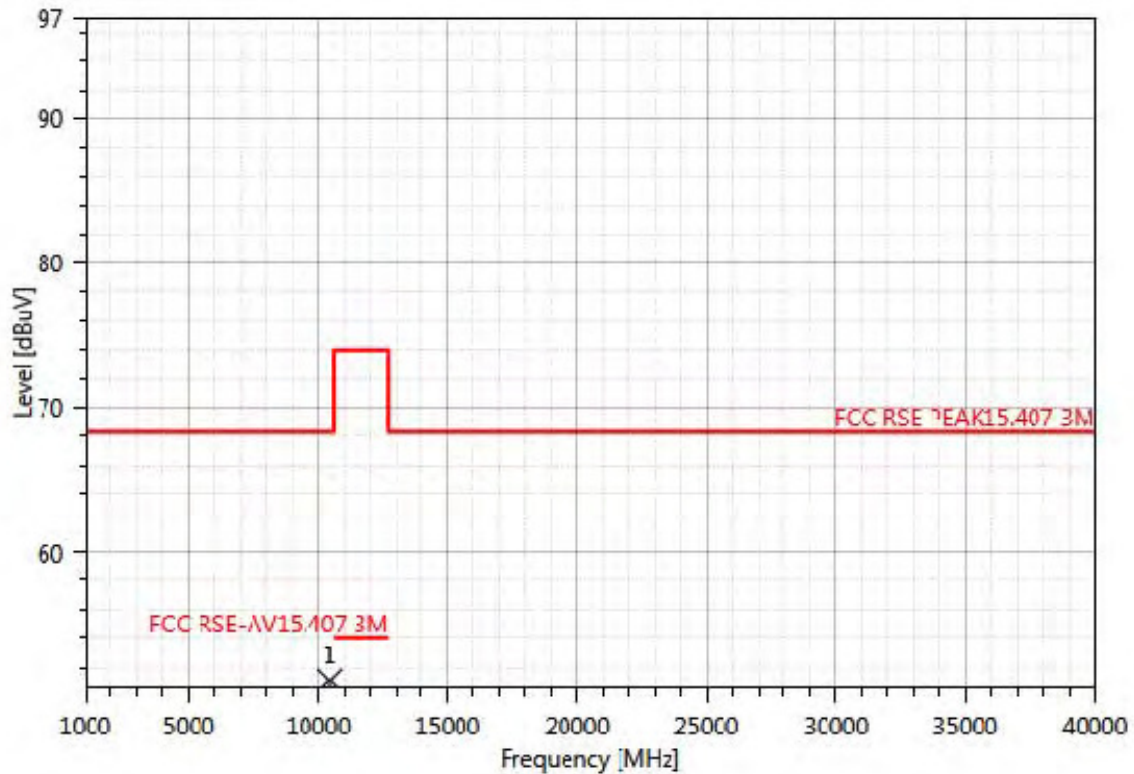
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Operation Mode :	802.11 n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	51.09	32.41	18.68	68.30	-17.21

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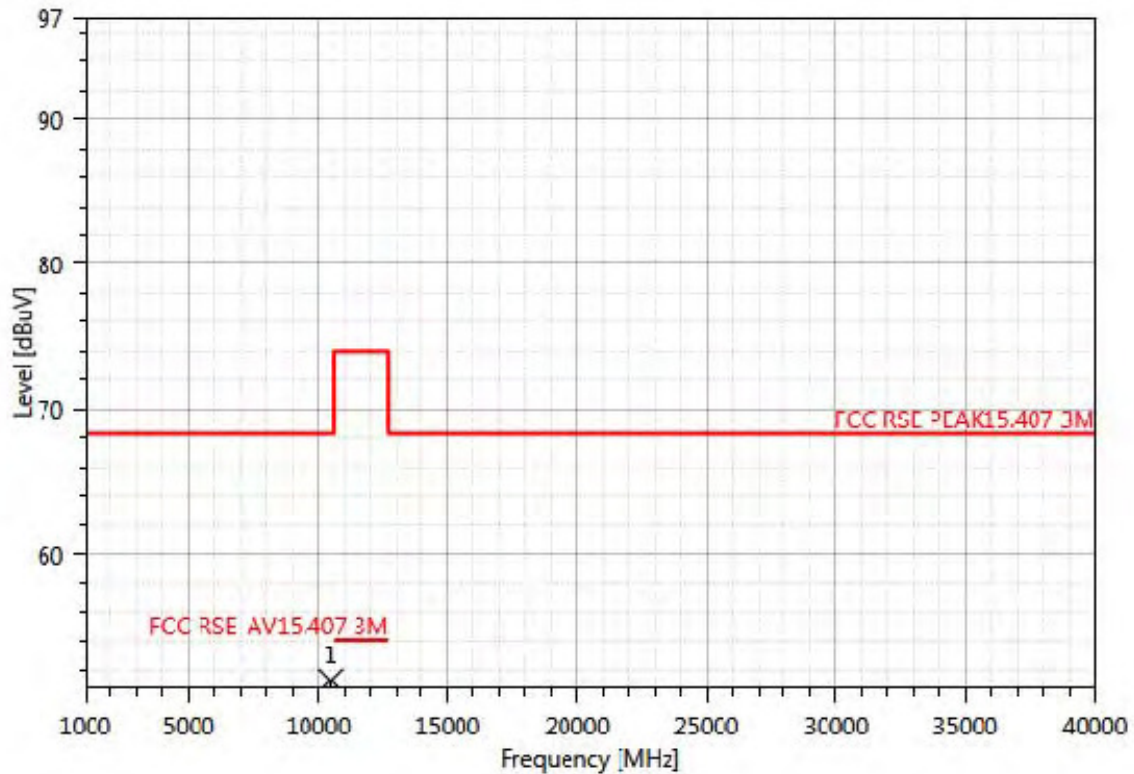
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Operation Mode :	802.11 n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	51.28	32.98	18.29	68.30	-17.02

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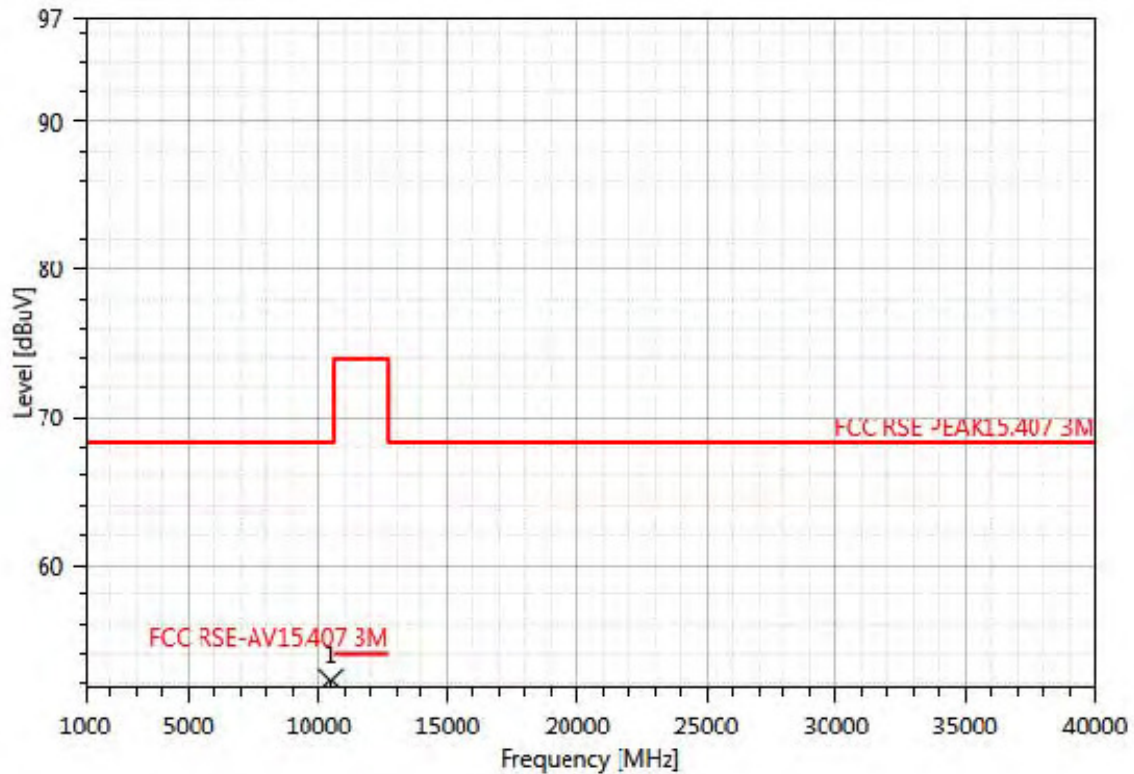
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Operation Mode :	802.11 n20B1	Test Date :	08/04/2016
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10480.00	H	Peak	52.21	33.92	18.29	68.30	-16.09

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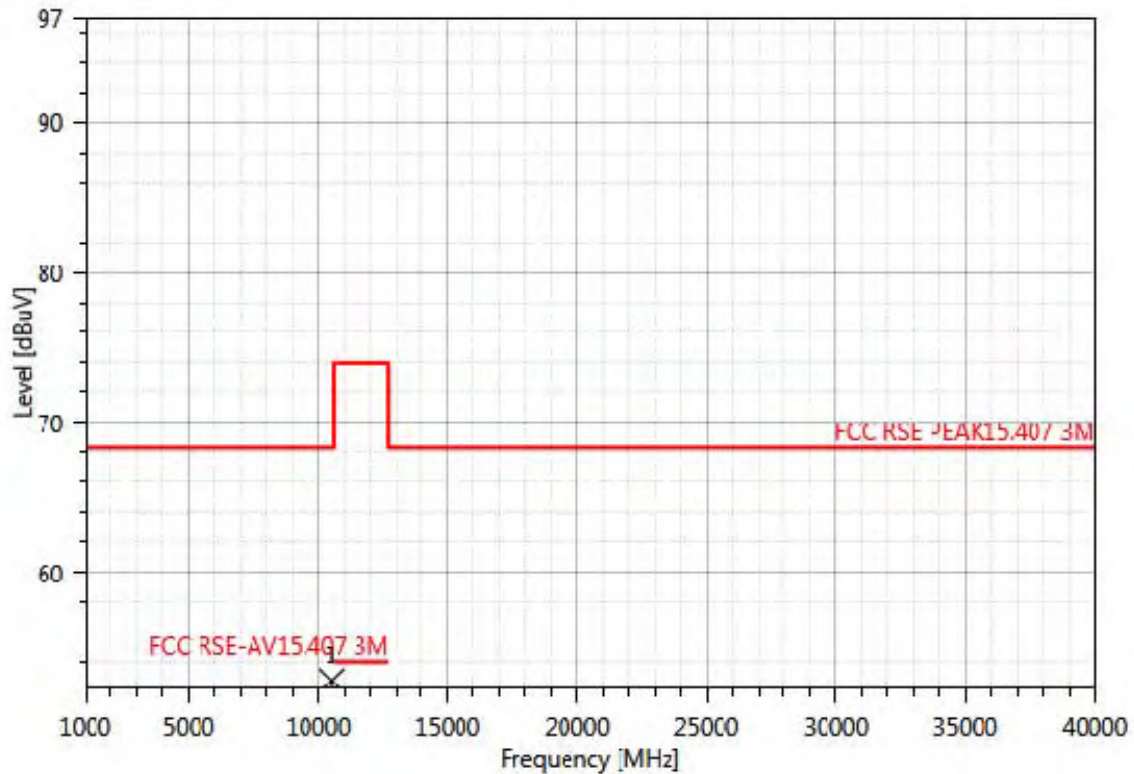
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	52.76	33.38	19.37	68.30	-15.54

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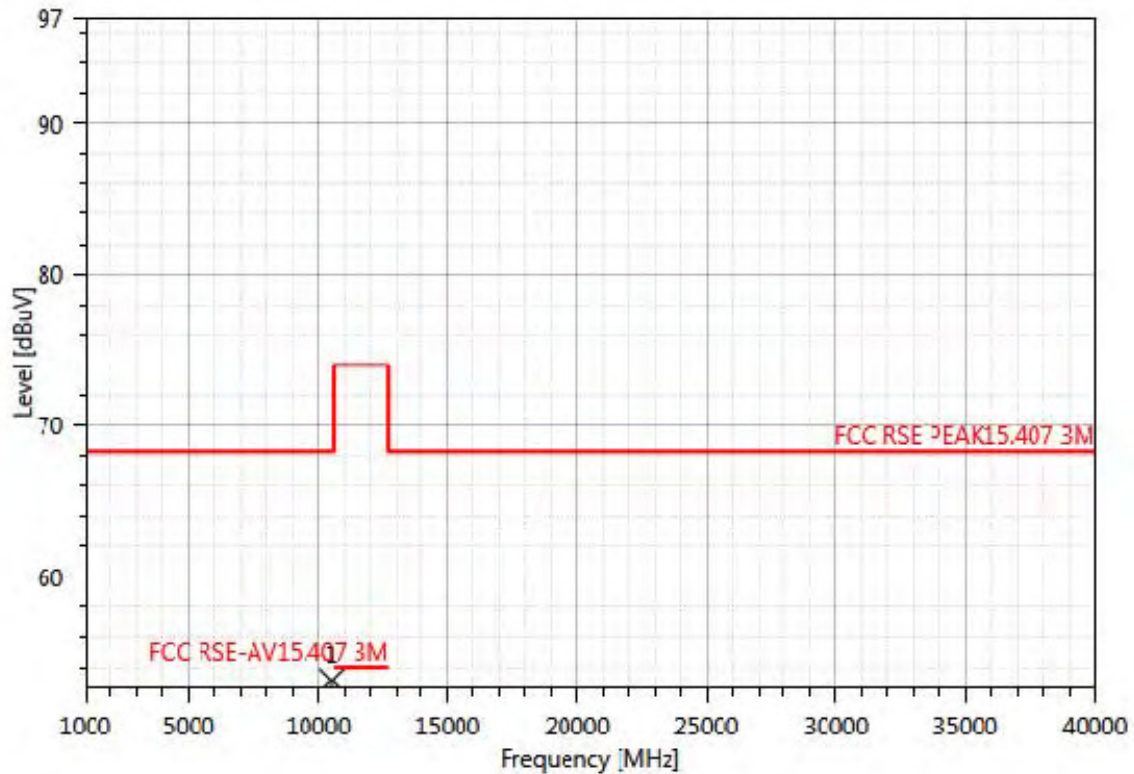
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Operation Mode :	802.11 n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	53.13	33.75	19.37	68.30	-15.17

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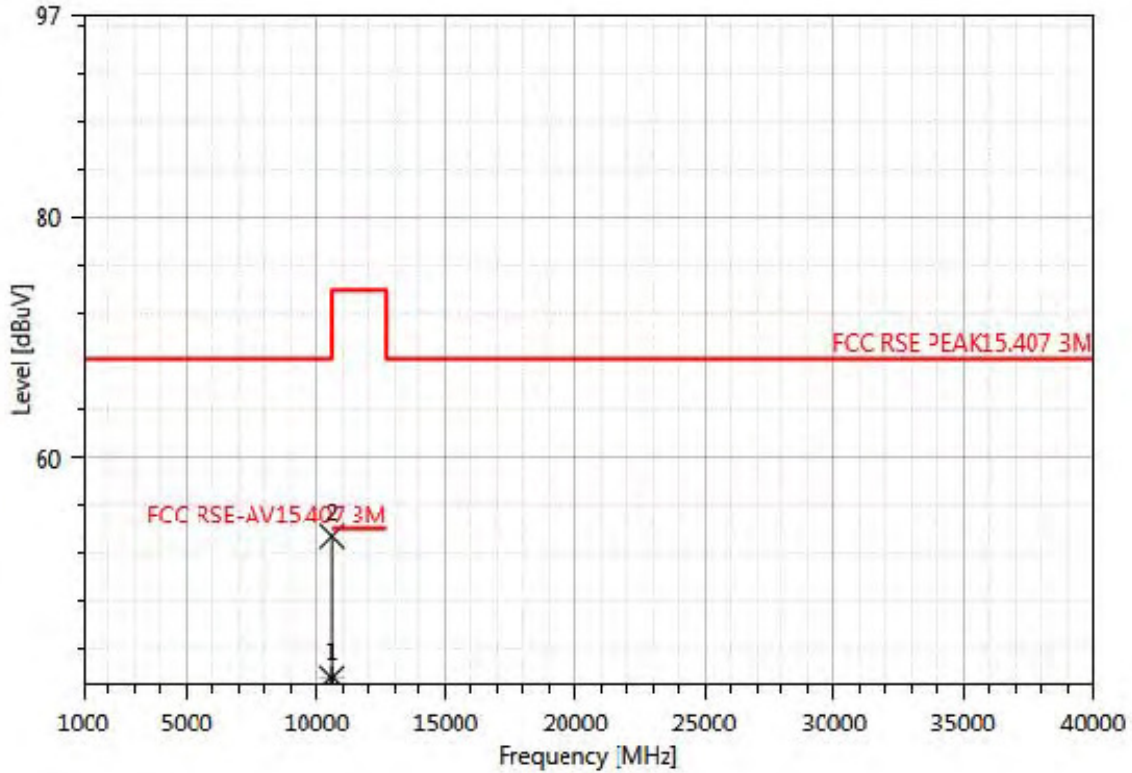
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Operation Mode :	802.11 n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	41.60	22.69	18.91	54.00	-12.40
10600.00	H	Peak	53.36	34.45	18.91	74.00	-20.64

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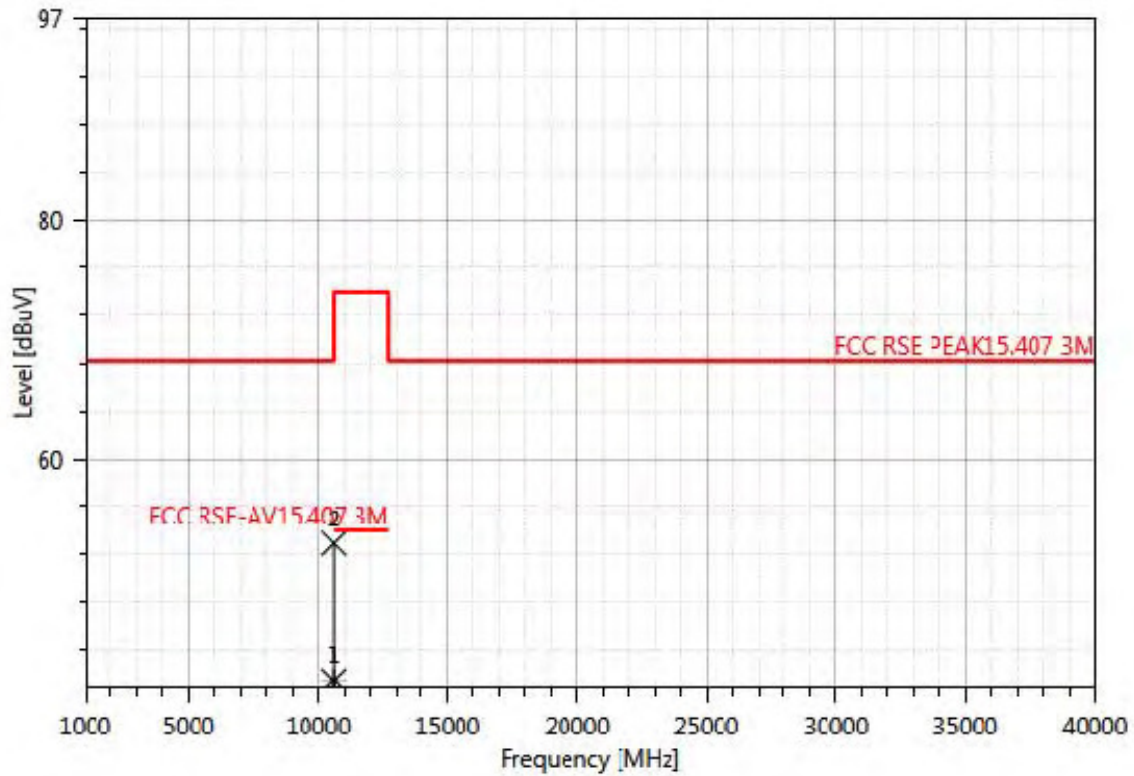
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Operation Mode :	802.11 n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10600.00	H	Average	41.43	22.52	18.91	54.00	-12.57
10600.00	H	Peak	52.93	34.02	18.91	74.00	-21.07

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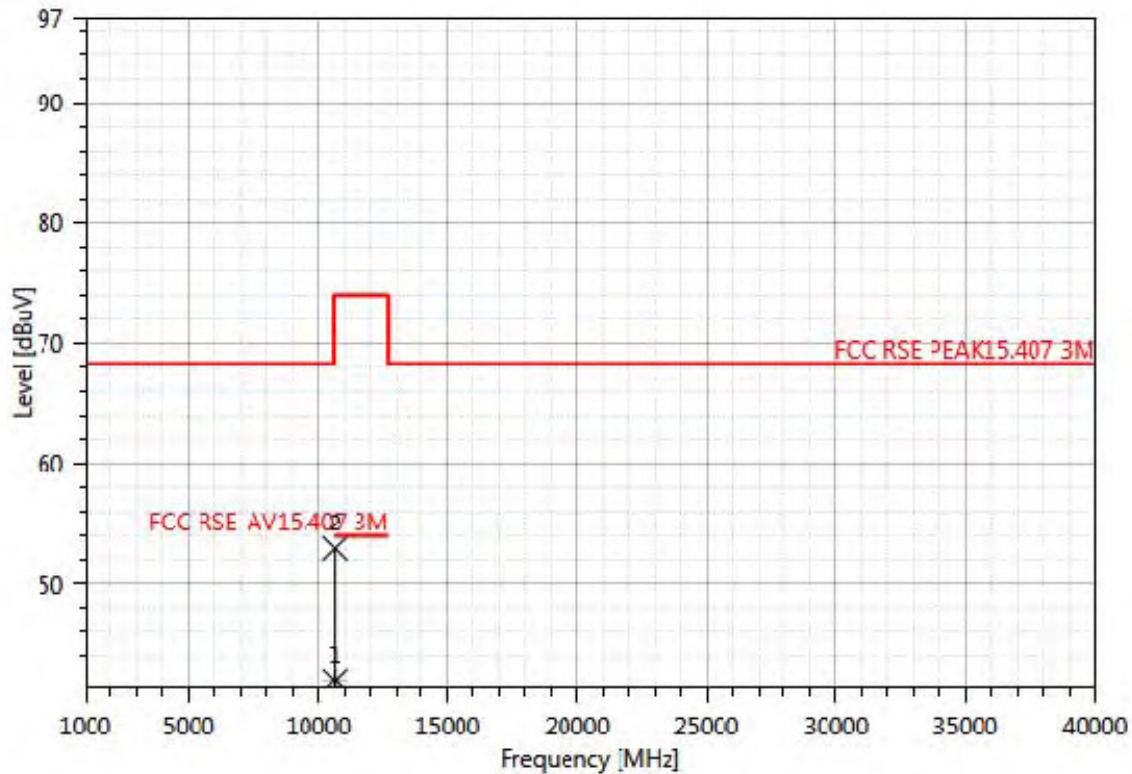
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Operation Mode :	802.11 n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10640.00	H	Average	42.01	22.83	19.18	54.00	-11.99
10640.00	H	Peak	52.97	33.79	19.18	74.00	-21.03

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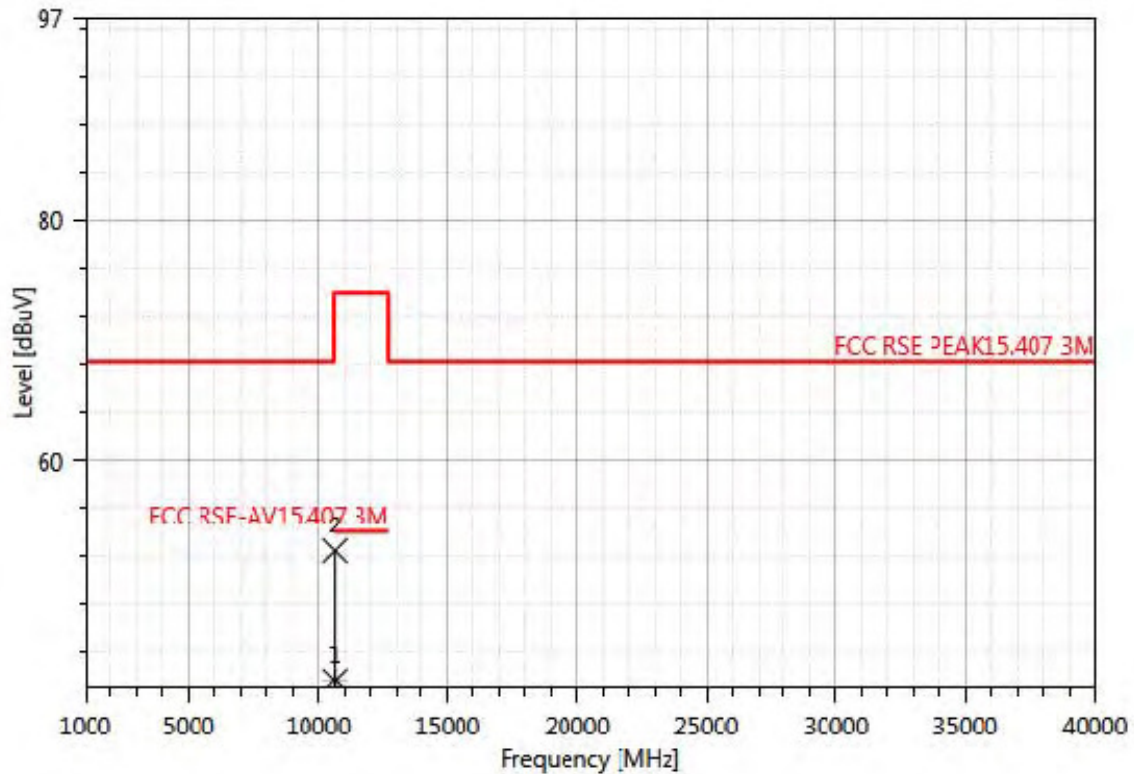
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Operation Mode :	802.11 n20B2	Test Date :	08/04/2016
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10640.00	H	Average	41.56	22.38	19.18	54.00	-12.44
10640.00	H	Peak	52.42	33.24	19.18	74.00	-21.58

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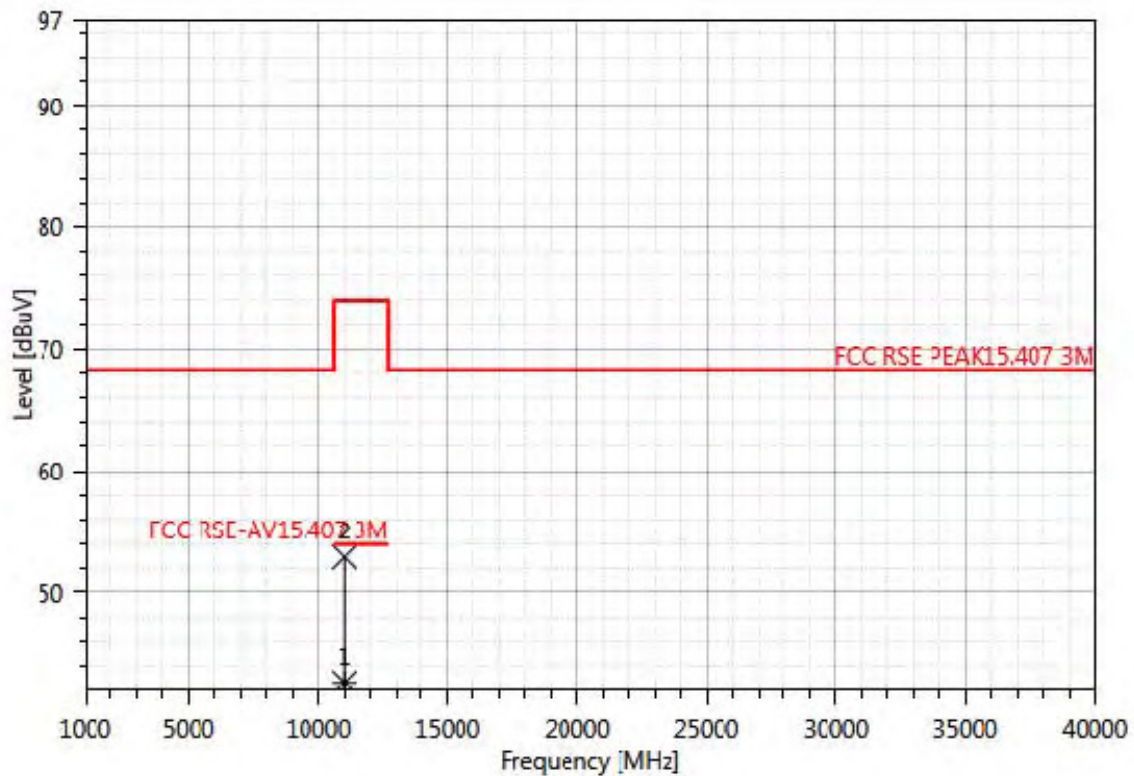
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	42.65	22.48	20.17	54.00	-11.35
11000.00	H	Peak	52.96	32.79	20.17	74.00	-21.04

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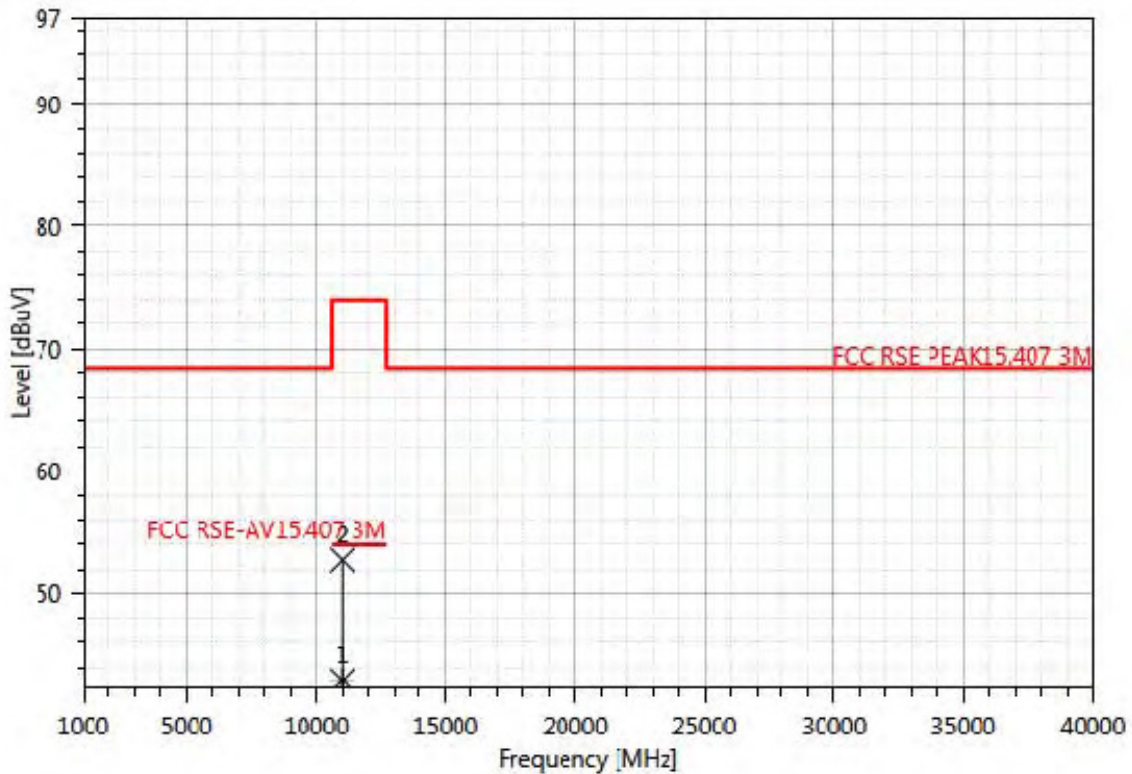
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Operation Mode :	802.11 n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11000.00	H	Average	42.93	22.76	20.17	54.00	-11.07
11000.00	H	Peak	52.78	32.61	20.17	74.00	-21.22

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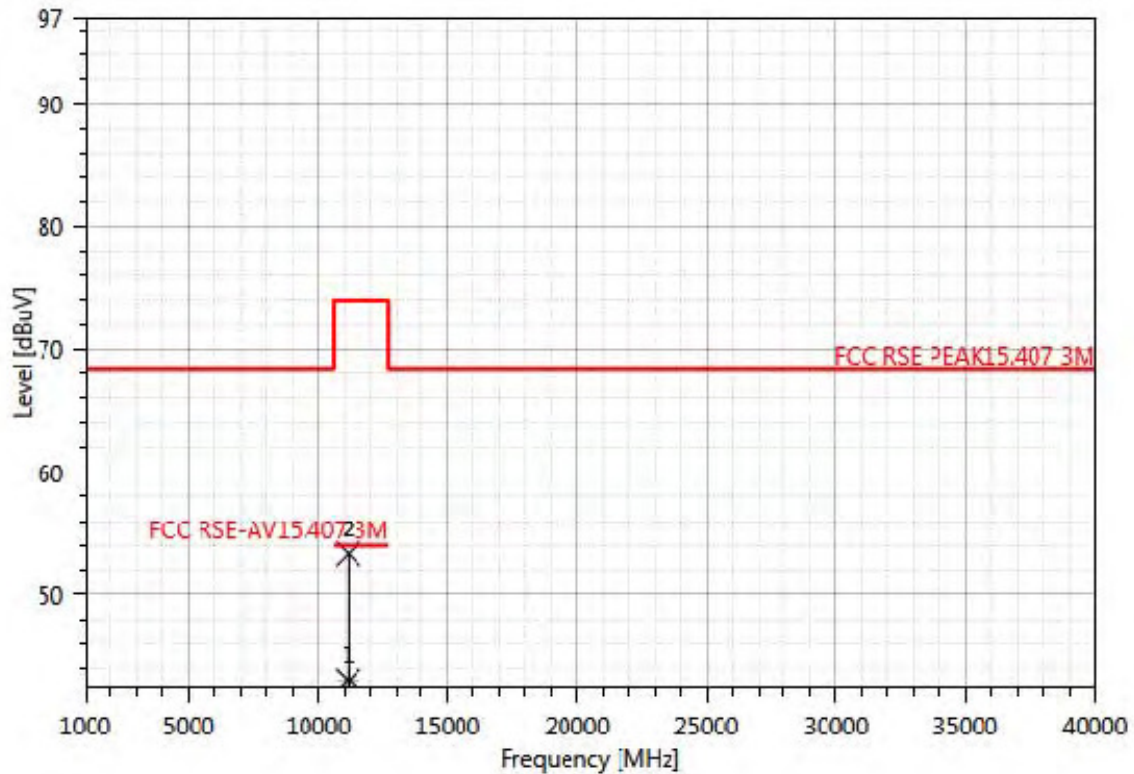
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Operation Mode :	802.11 n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11160.00	H	Average	43.00	22.55	20.45	54.00	-11.00
11160.00	H	Peak	53.33	32.88	20.45	74.00	-20.67

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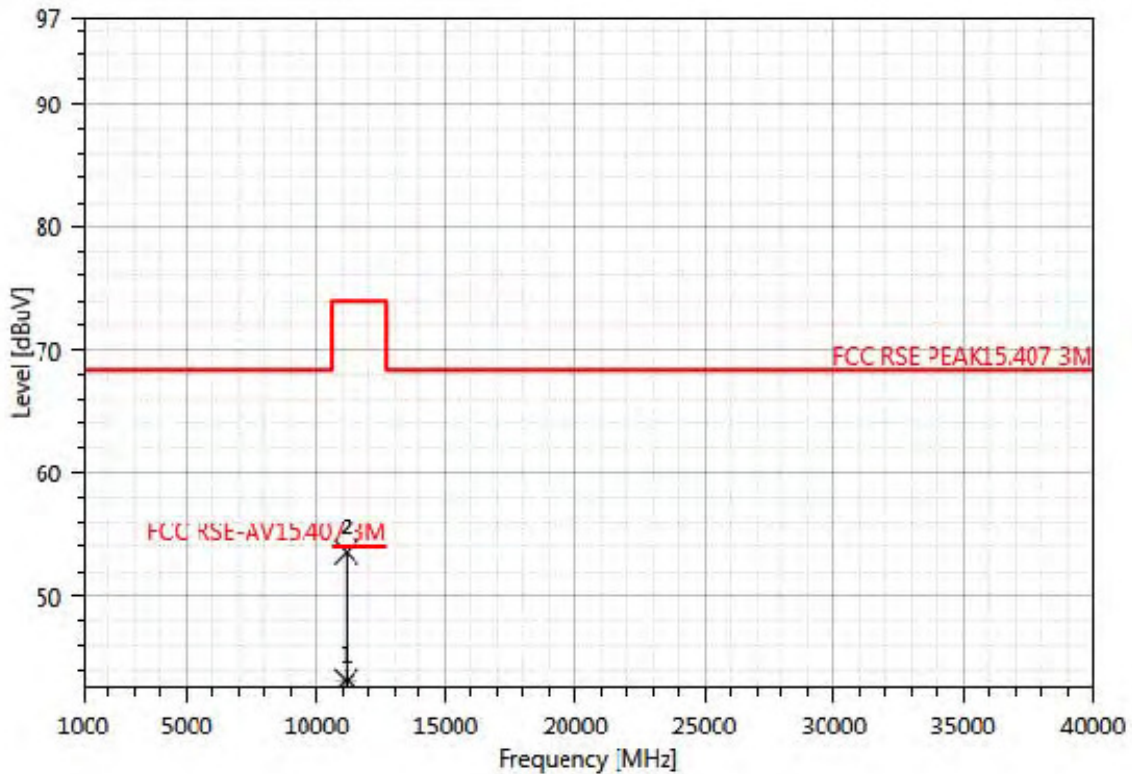
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Operation Mode :	802.11 n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11160.00	H	Average	43.14	22.69	20.45	54.00	-10.86
11160.00	H	Peak	53.56	33.11	20.45	74.00	-20.44

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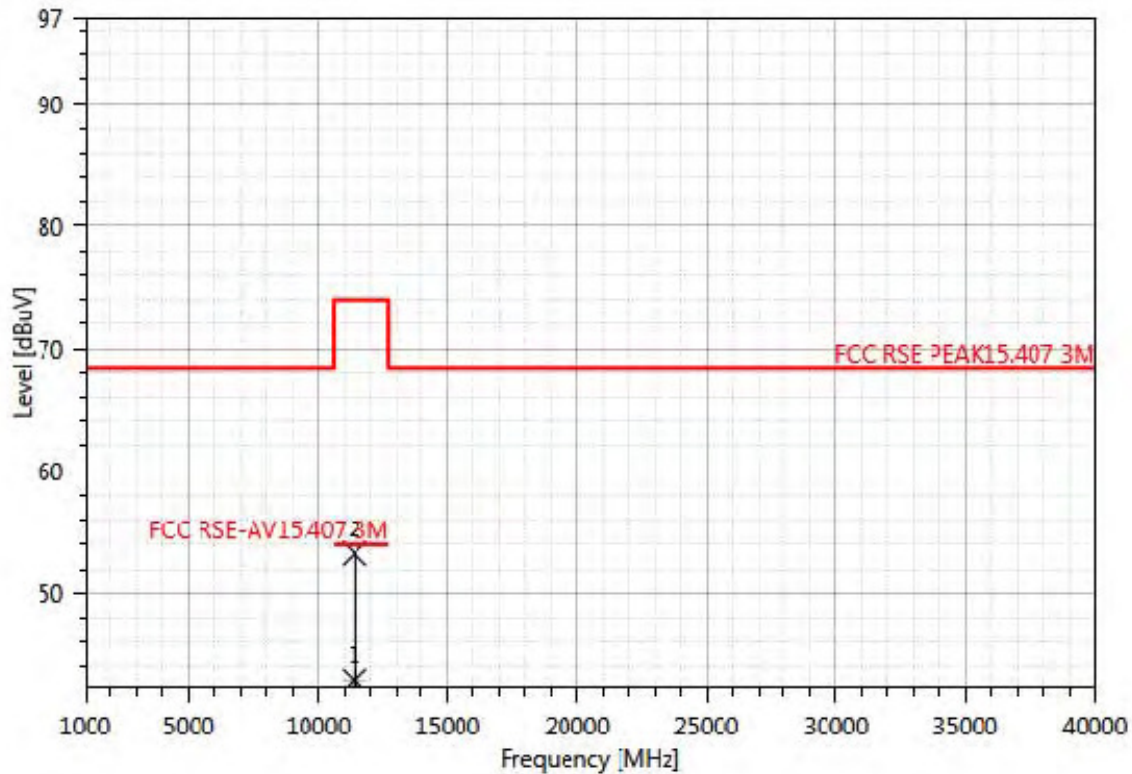
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Operation Mode :	802.11 n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11400.00	H	Average	42.89	22.33	20.56	54.00	-11.11
11400.00	H	Peak	53.28	32.72	20.56	74.00	-20.72

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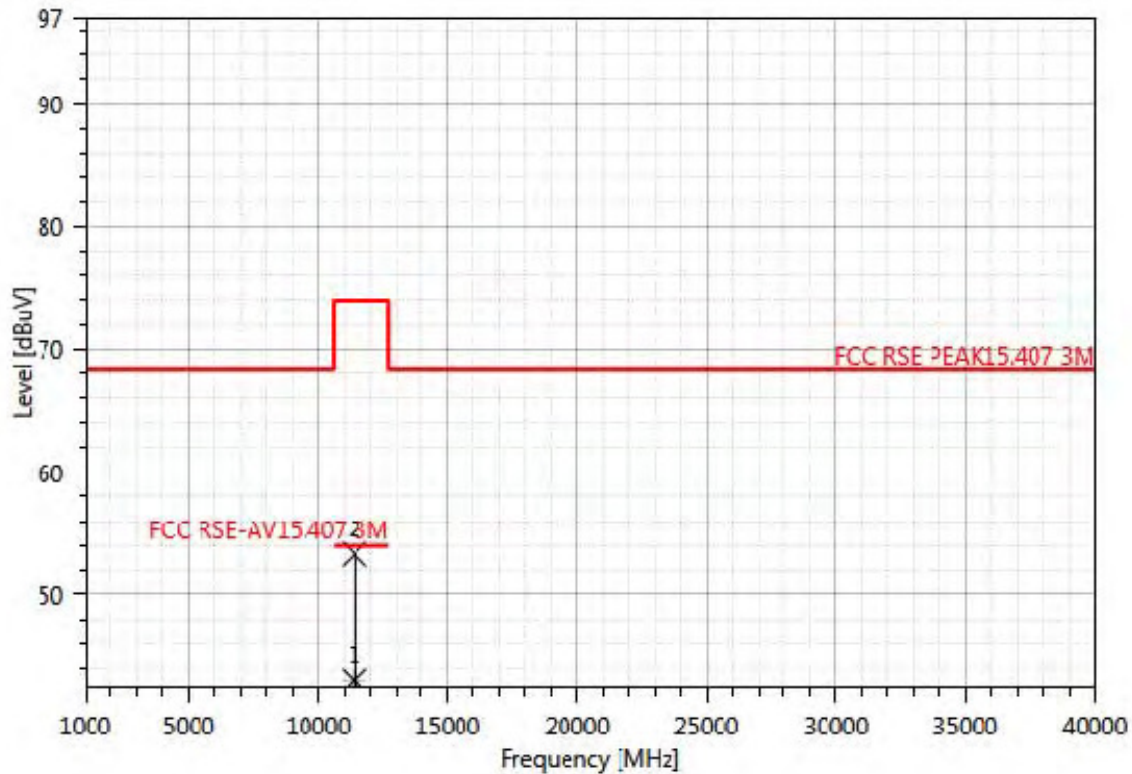
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Operation Mode :	802.11 n20B3	Test Date :	08/04/2016
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11400.00	H	Average	43.03	22.47	20.56	54.00	-10.97
11400.00	H	Peak	53.34	32.78	20.56	74.00	-20.66

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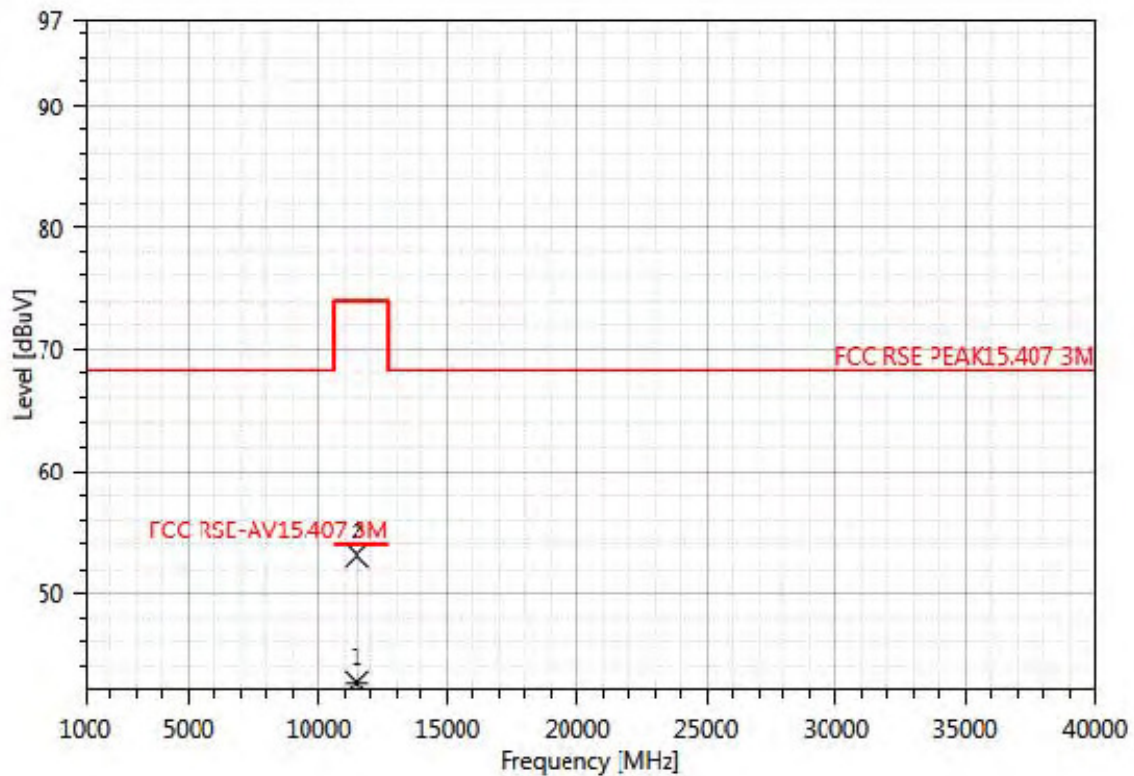
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	42.70	22.28	20.42	54.00	-11.30
11490.00	H	Peak	53.14	32.72	20.42	74.00	-20.86

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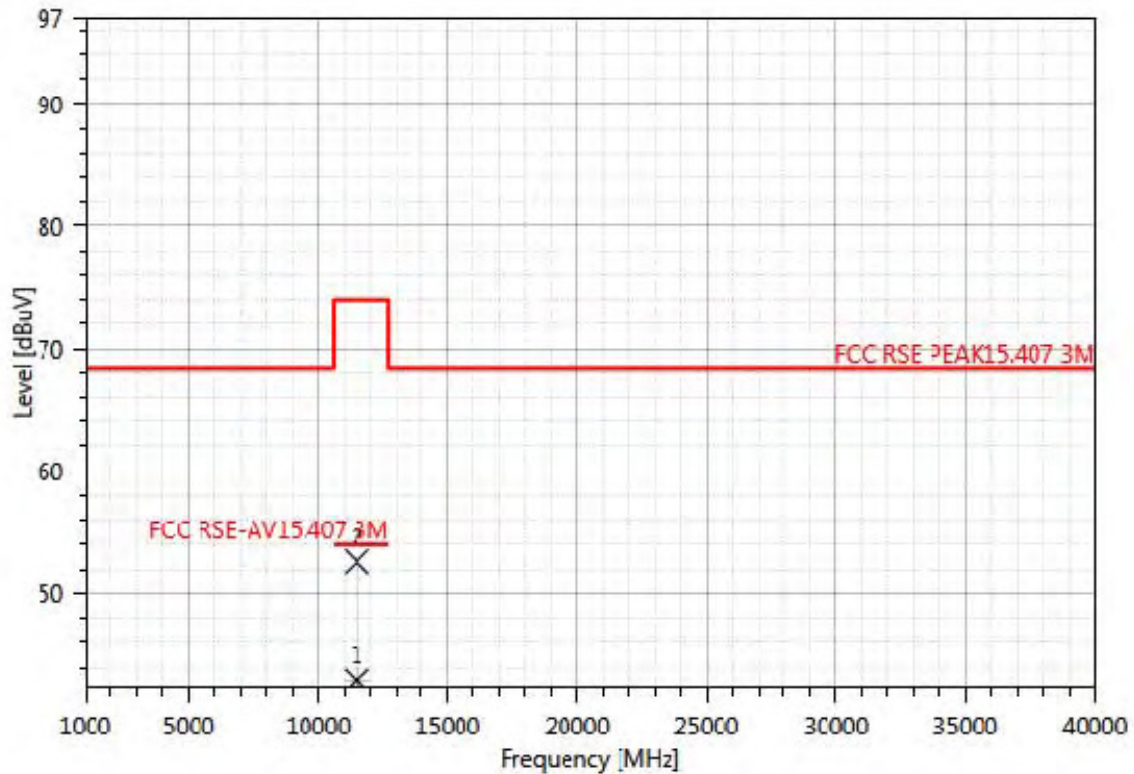
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Operation Mode :	802.11 n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11490.00	H	Average	42.91	22.49	20.42	54.00	-11.09
11490.00	H	Peak	52.64	32.22	20.42	74.00	-21.36

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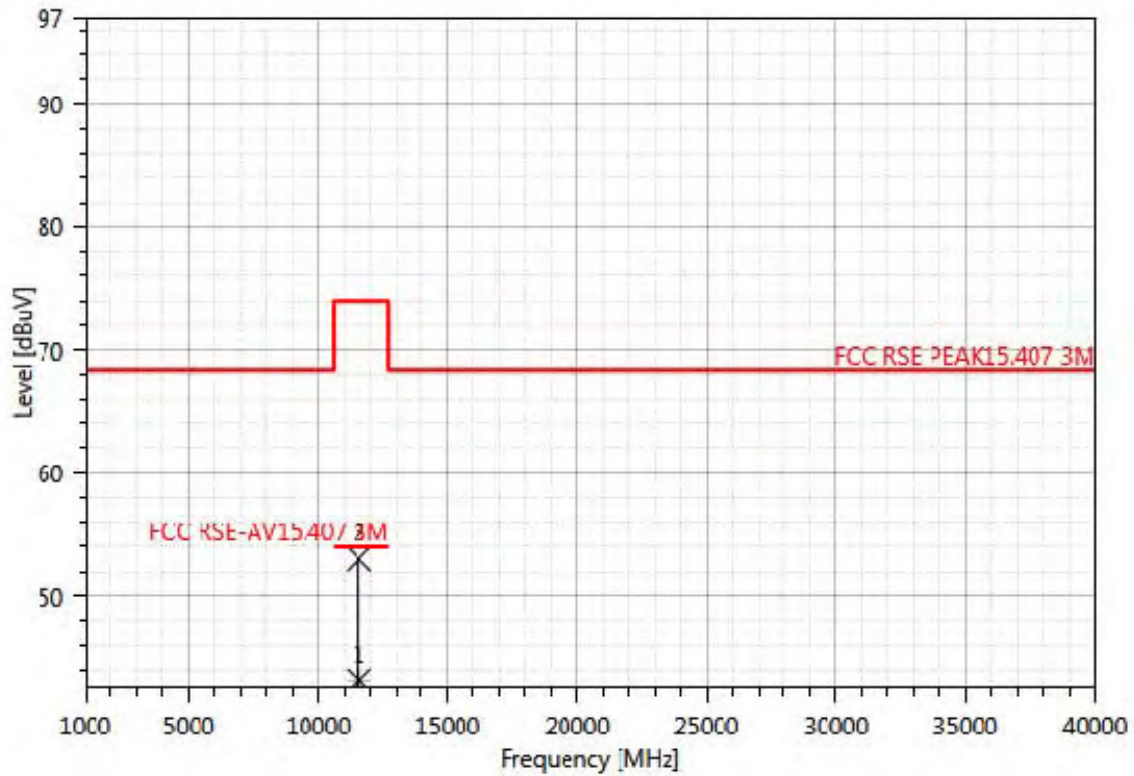
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Operation Mode :	802.11 n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11570.00	H	Average	43.14	22.55	20.59	54.00	-10.86
11570.00	H	Peak	53.05	32.47	20.59	74.00	-20.95

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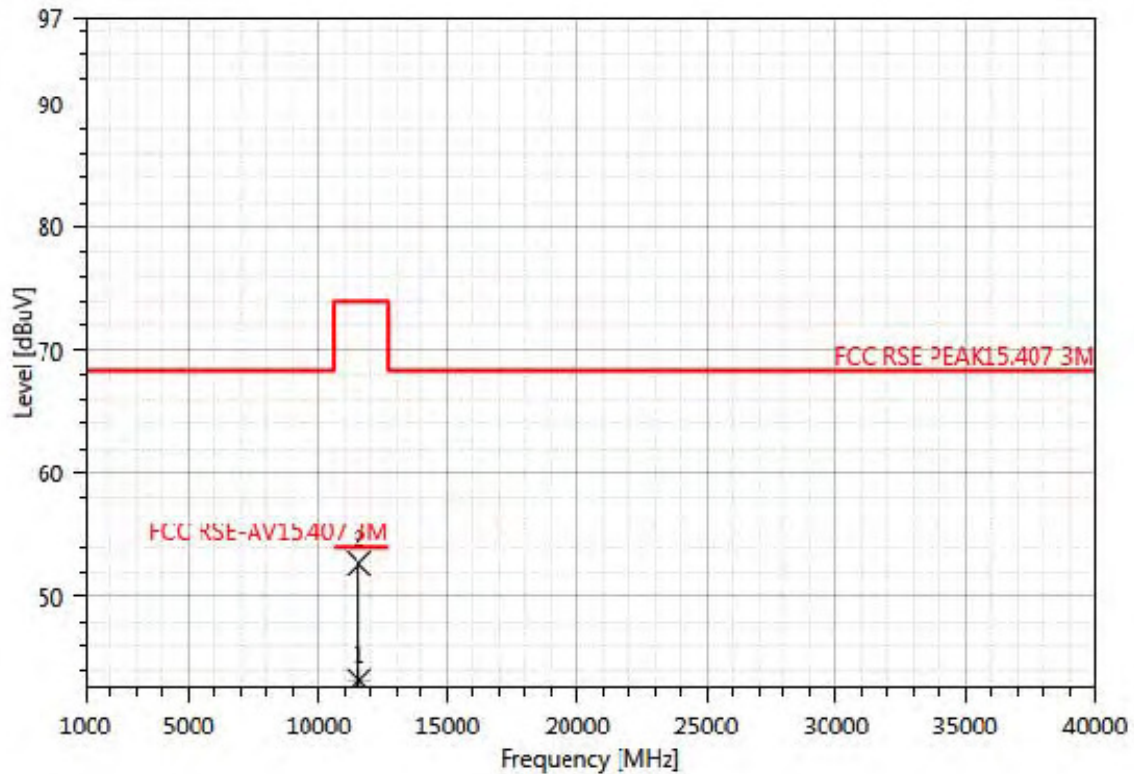
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Operation Mode :	802.11 n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11570.00	H	Average	43.21	22.62	20.59	54.00	-10.79
11570.00	H	Peak	52.73	32.15	20.59	74.00	-21.27

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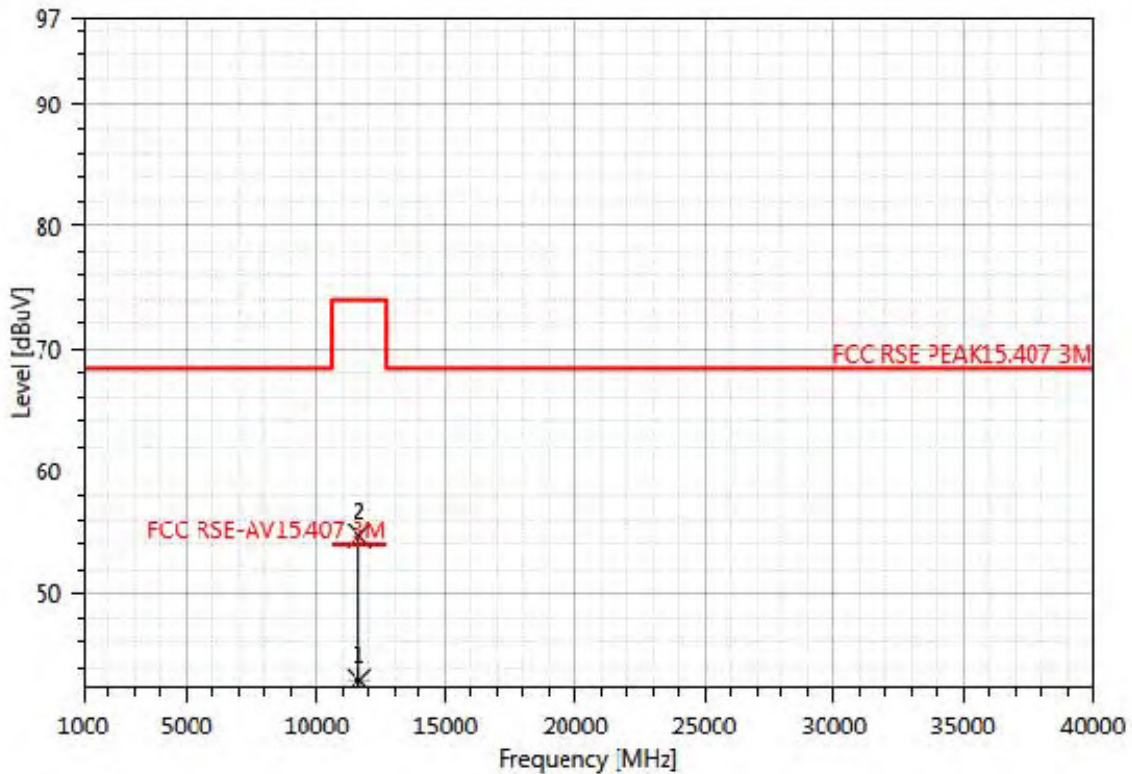
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Operation Mode :	802.11 n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	42.92	22.49	20.43	54.00	-11.08
11650.00	H	Peak	54.70	34.26	20.43	74.00	-19.30

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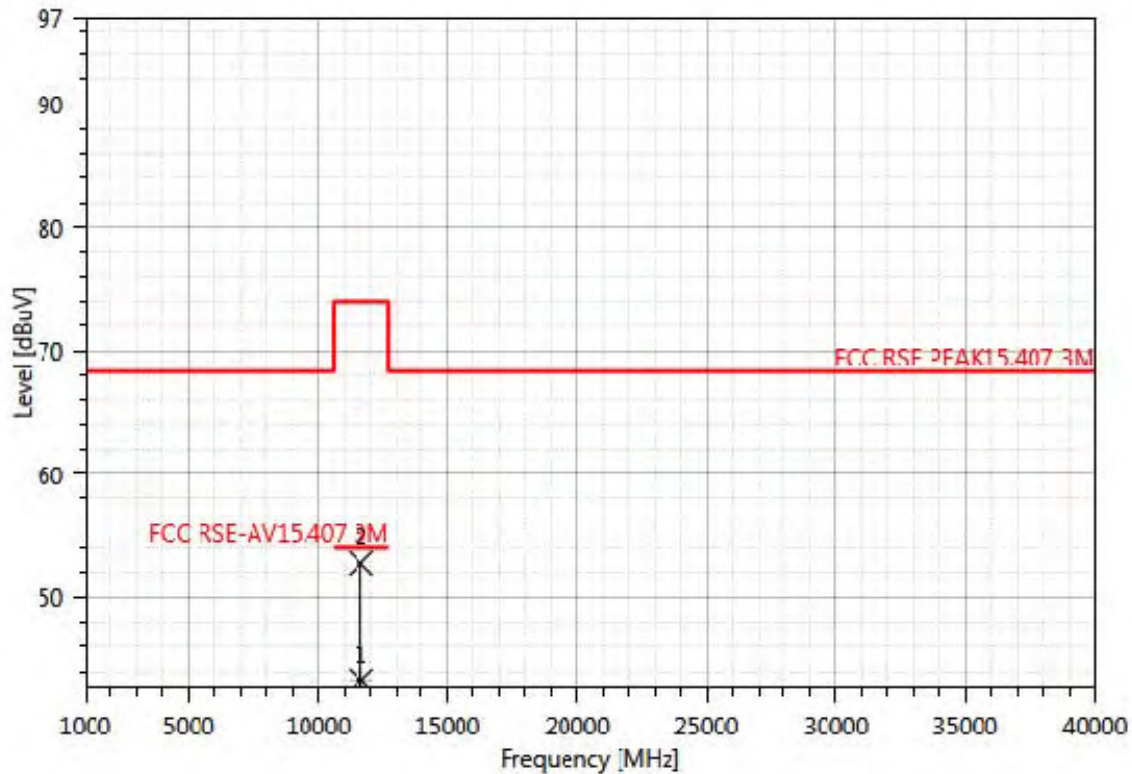
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Operation Mode :	802.11 n20B4	Test Date :	08/04/2016
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11650.00	H	Average	43.24	22.81	20.43	54.00	-10.76
11650.00	H	Peak	52.78	32.35	20.43	74.00	-21.22

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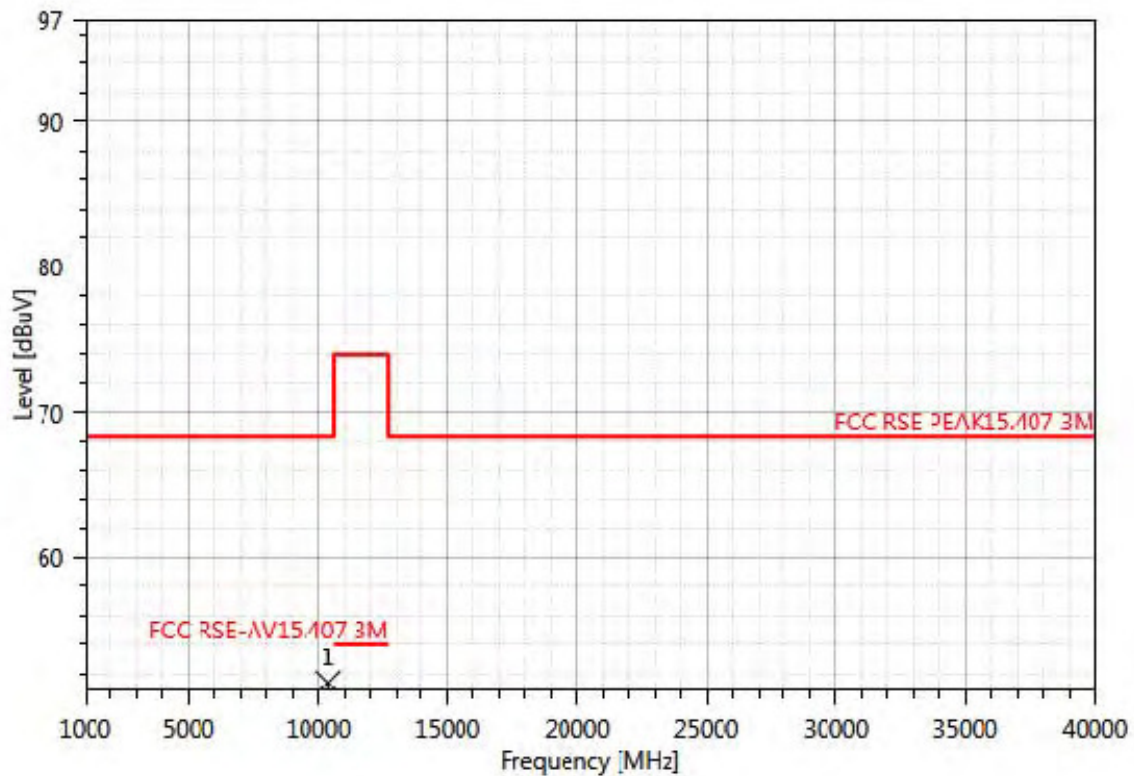
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	51.41	33.29	18.12	68.30	-16.89

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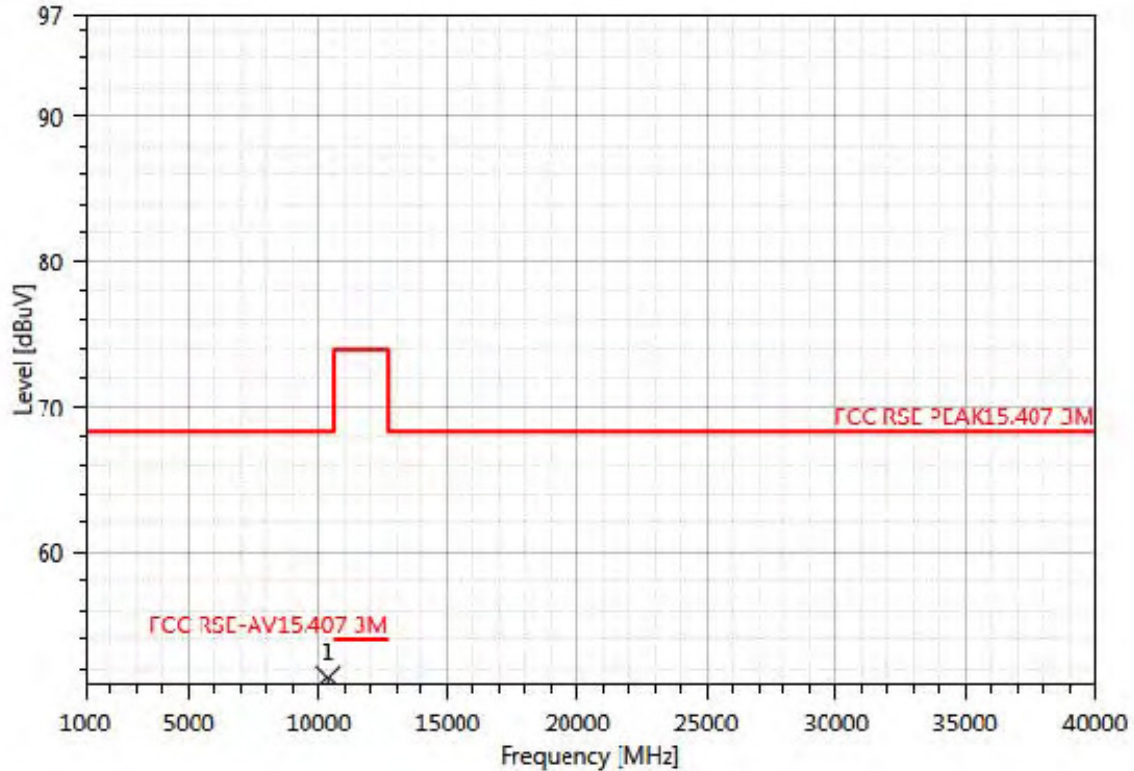
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Operation Mode :	802.11 n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10380.00	H	Peak	51.42	33.29	18.12	68.30	-16.88

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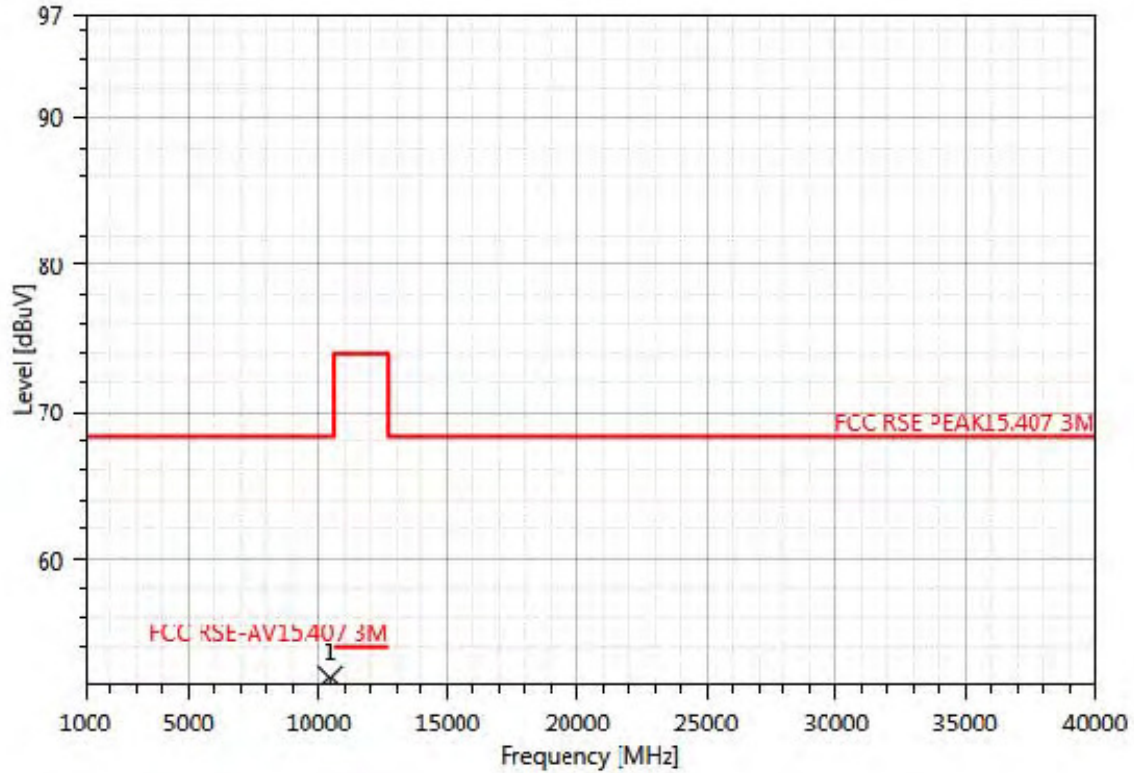
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Operation Mode :	802.11 n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10460.00	H	Peak	51.94	33.40	18.54	68.30	-16.36

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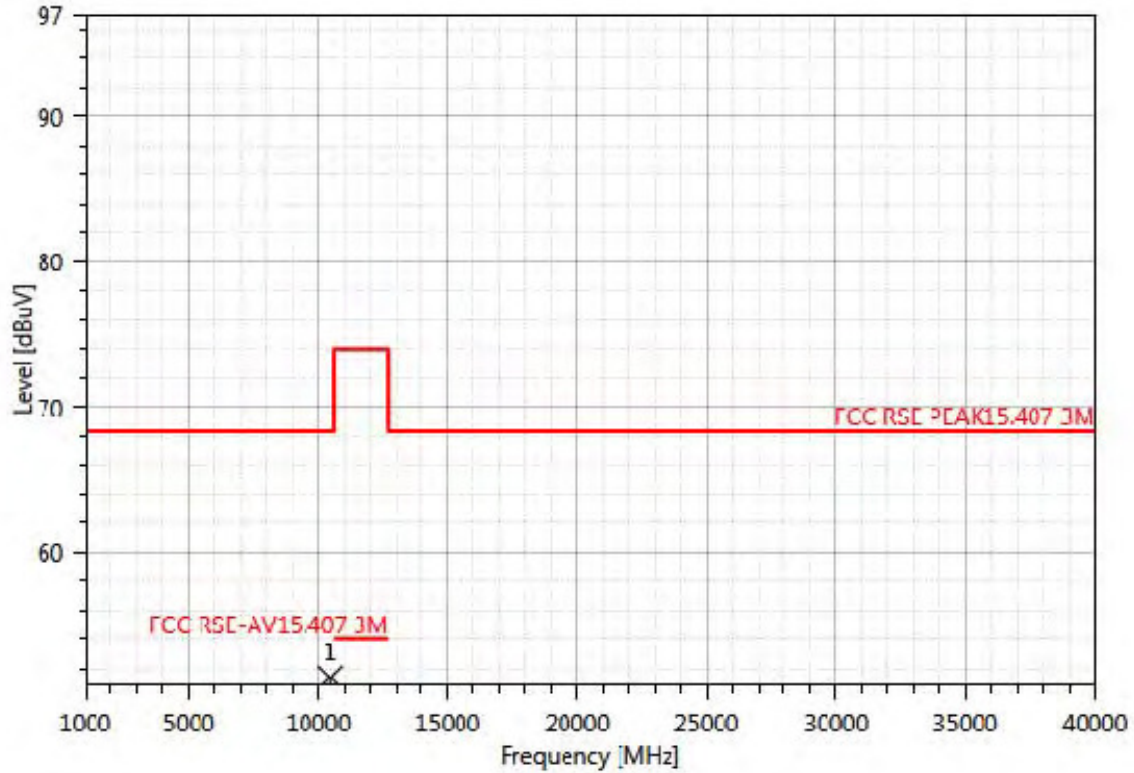
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Operation Mode :	802.11 n40B1	Test Date :	08/04/2016
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10460.00	H	Peak	51.37	32.83	18.54	68.30	-16.93

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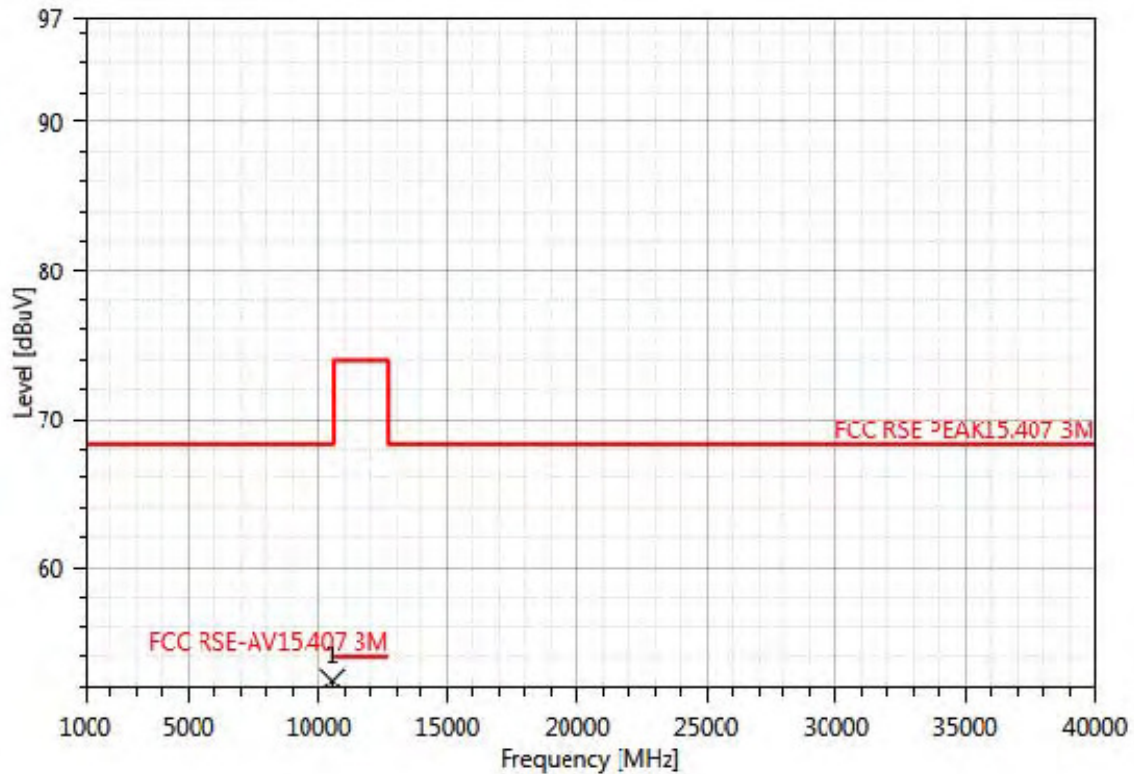
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11 n40B2	Test Date :	08/04/2016
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	52.40	33.23	19.17	68.30	-15.90

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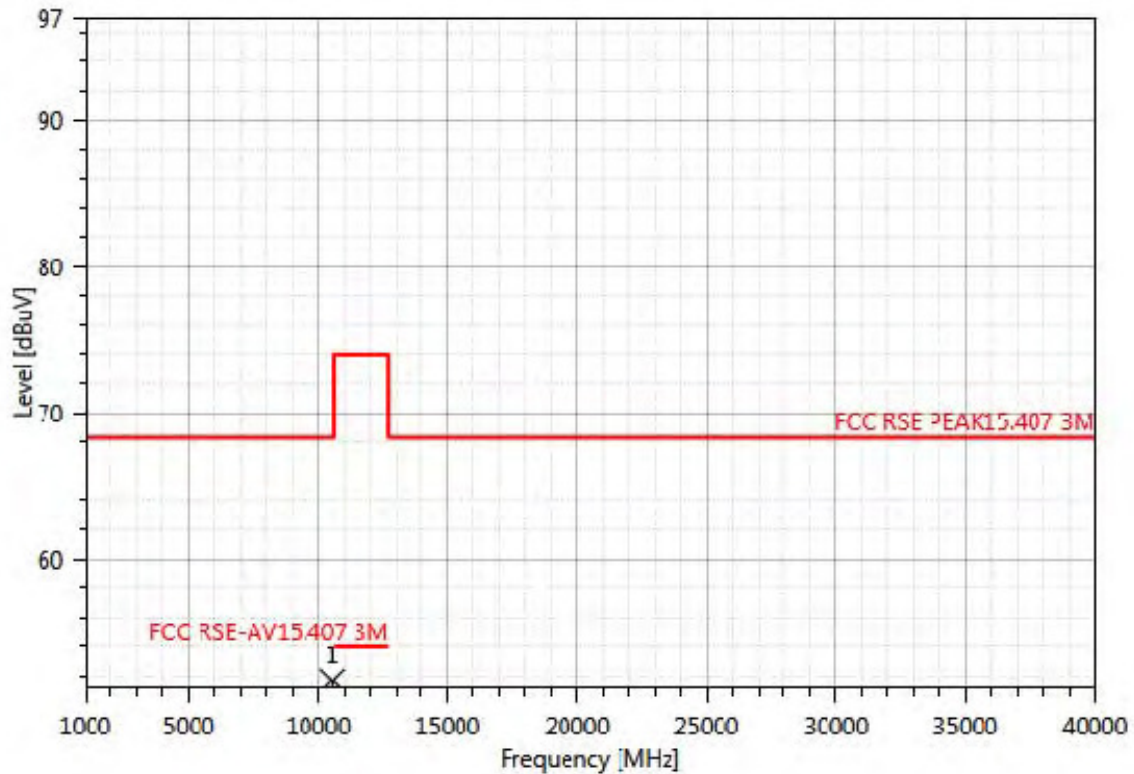
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Operation Mode :	802.11 n40B2	Test Date :	08/04/2016
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	51.68	32.51	19.17	68.30	-16.62

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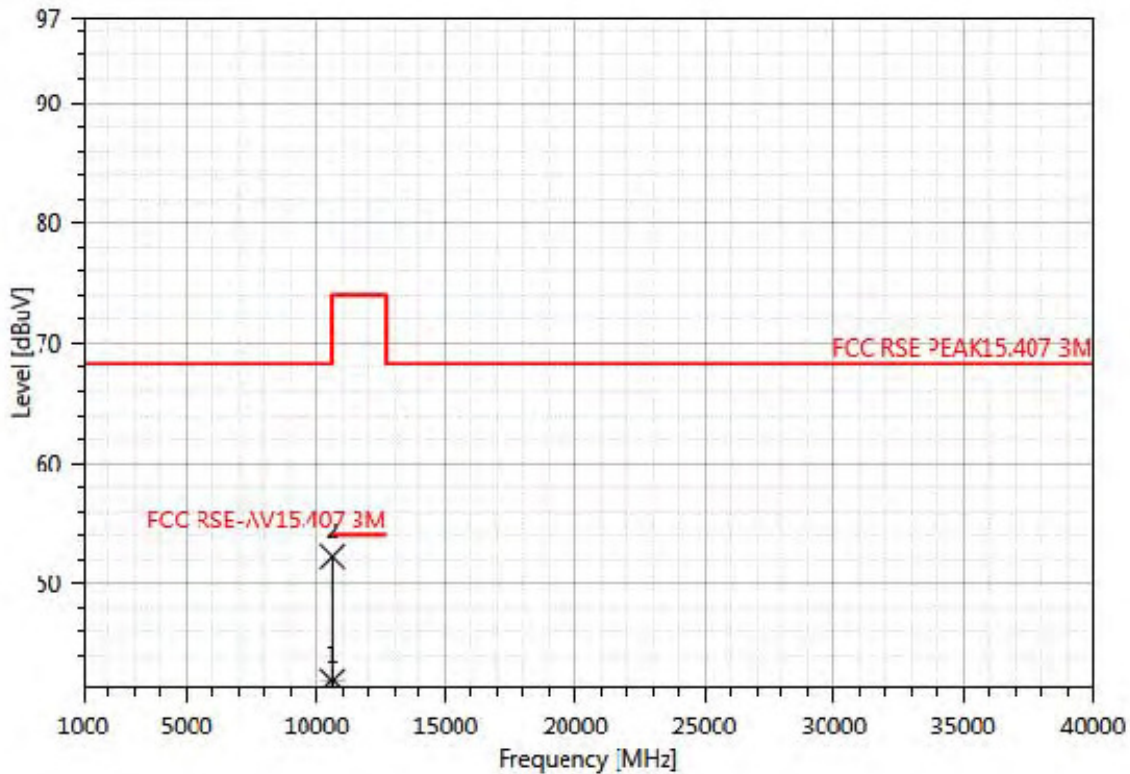
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Operation Mode :	802.11 n40B2	Test Date :	08/04/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10620.00	H	Average	41.97	22.86	19.11	54.00	-12.03
10620.00	H	Peak	52.27	33.16	19.11	74.00	-21.73

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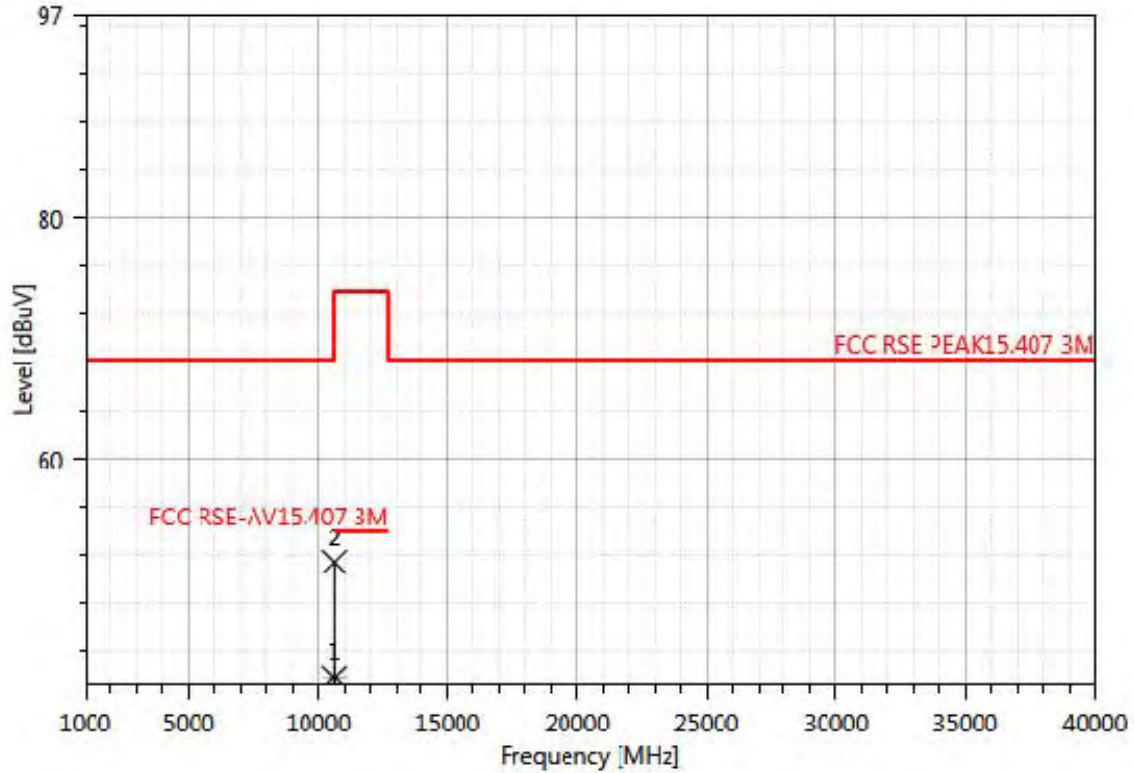
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Operation Mode :	802.11 n40B2	Test Date :	08/04/2016
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10620.00	H	Average	41.86	22.75	19.11	54.00	-12.14
10620.00	H	Peak	51.46	32.36	19.11	74.00	-22.54

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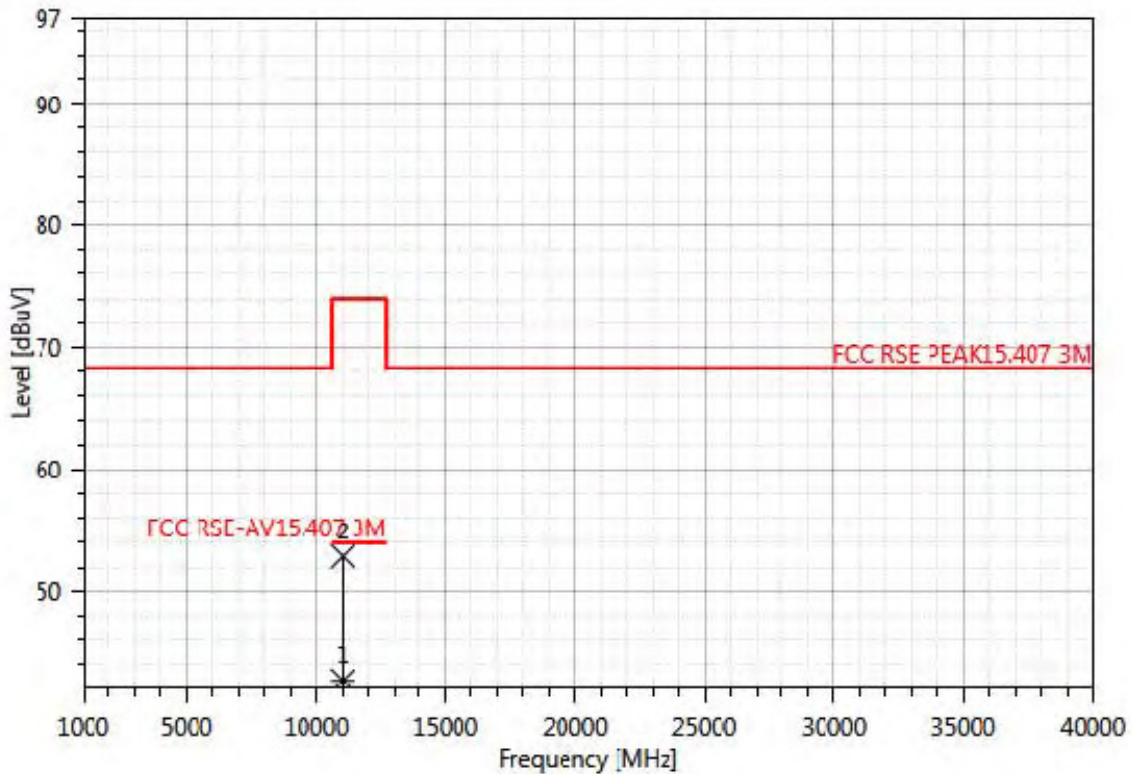
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11020.00	H	Average	42.69	22.53	20.16	54.00	-11.31
11020.00	H	Peak	52.89	32.73	20.16	74.00	-21.11

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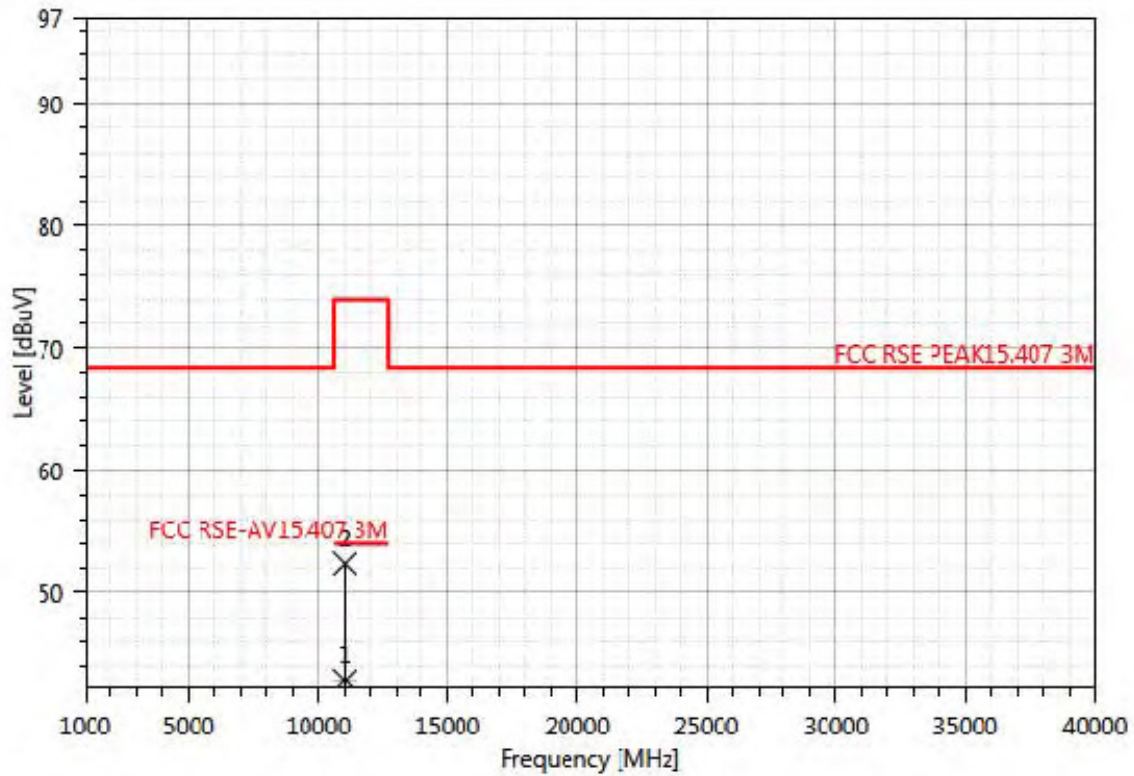
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Operation Mode :	802.11 n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11020.00	H	Average	42.83	22.67	20.16	54.00	-11.17
11020.00	H	Peak	52.41	32.25	20.16	74.00	-21.59

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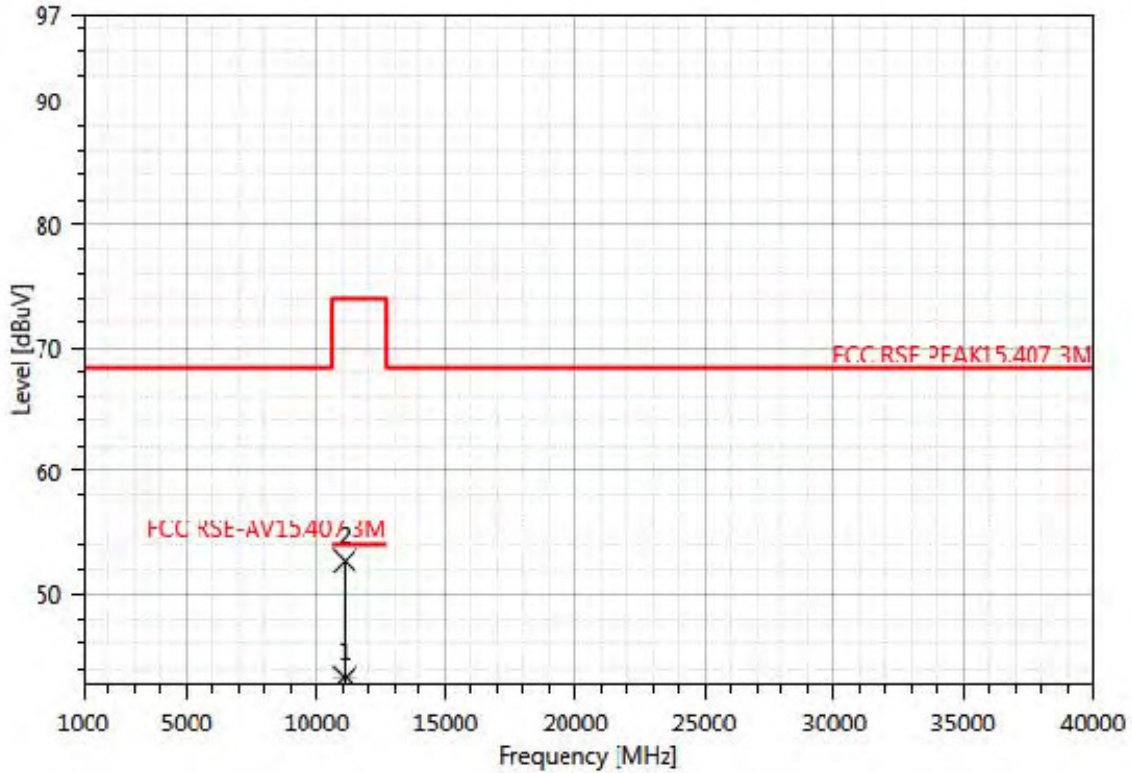
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Operation Mode :	802.11 n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11100.00	H	Average	43.24	22.92	20.32	54.00	-10.76
11100.00	H	Peak	52.73	32.41	20.32	74.00	-21.27

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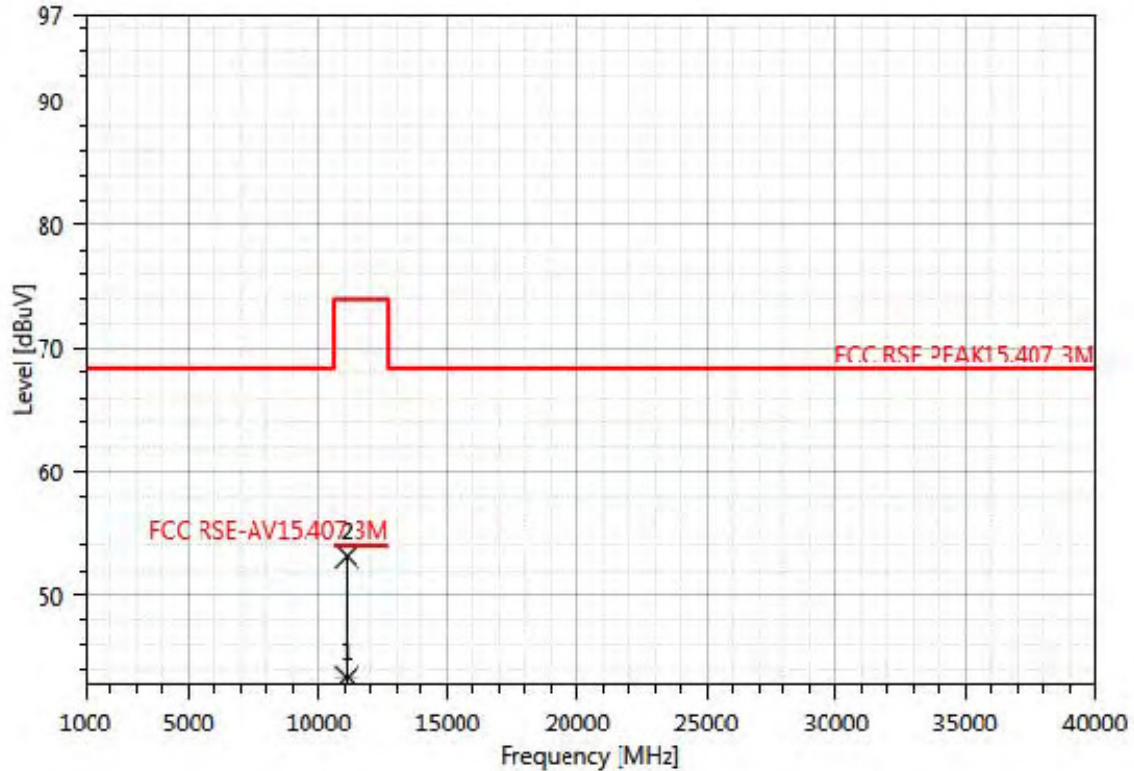
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Operation Mode :	802.11 n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11100.00	H	Average	43.34	23.02	20.32	54.00	-10.66
11100.00	H	Peak	53.18	32.86	20.32	74.00	-20.82

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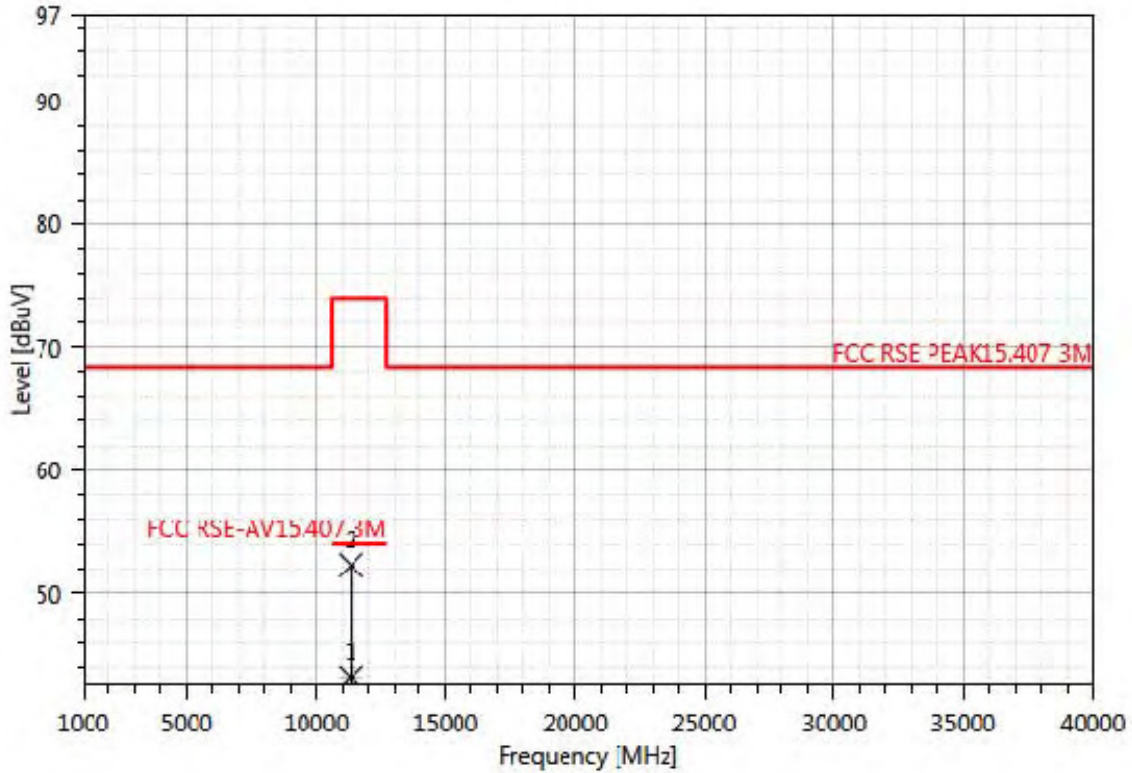
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Operation Mode :	802.11 n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11340.00	H	Average	43.17	22.78	20.38	54.00	-10.83
11340.00	H	Peak	52.29	31.91	20.38	74.00	-21.71

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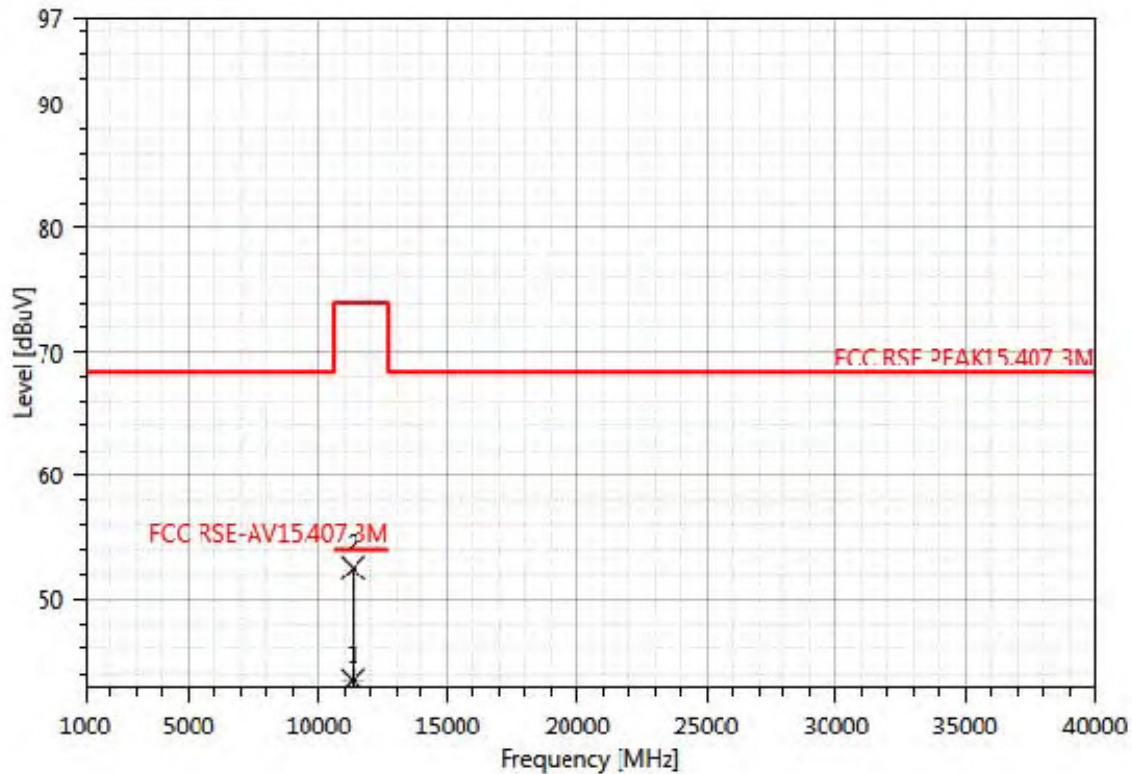
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Operation Mode :	802.11 n40B3	Test Date :	08/04/2016
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11340.00	H	Average	43.44	23.06	20.38	54.00	-10.56
11340.00	H	Peak	52.53	32.15	20.38	74.00	-21.47

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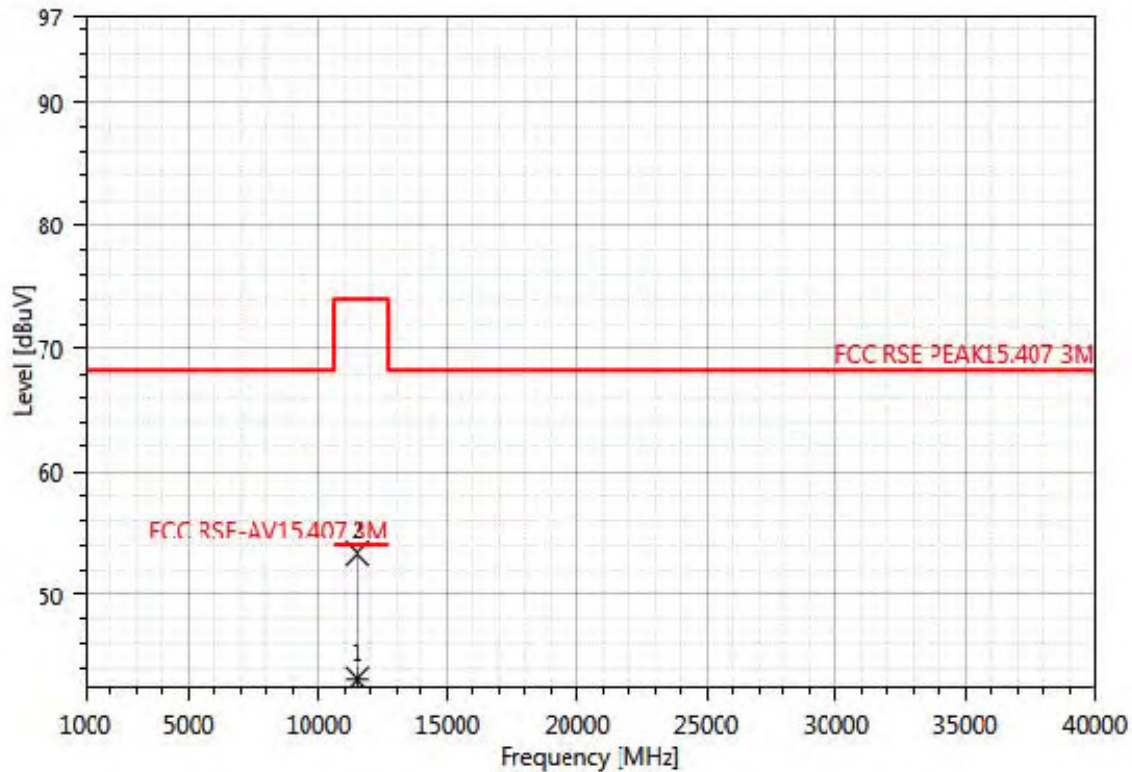
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11 n40B4	Test Date :	08/04/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11510.00	H	Average	43.16	22.78	20.39	54.00	-10.84
11510.00	H	Peak	53.34	32.95	20.39	74.00	-20.66

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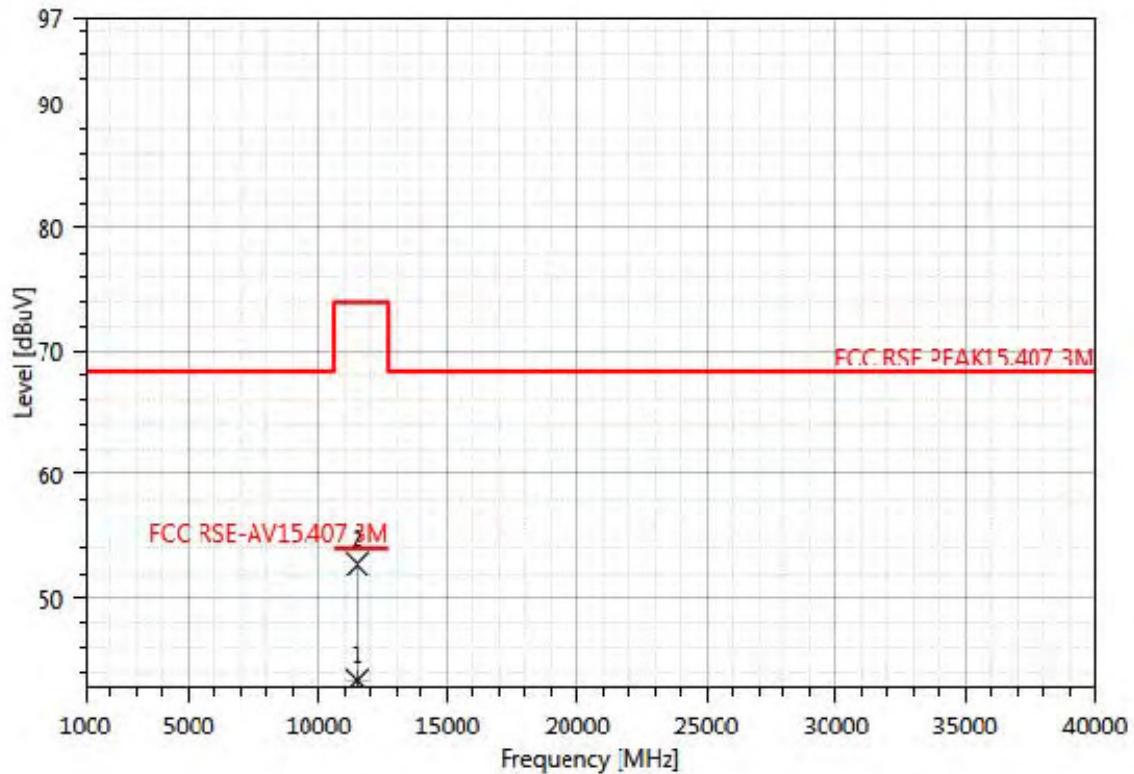
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Operation Mode :	802.11 n40B4	Test Date :	08/04/2016
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11510.00	H	Average	43.32	22.93	20.39	54.00	-10.68
11510.00	H	Peak	52.76	32.38	20.39	74.00	-21.24

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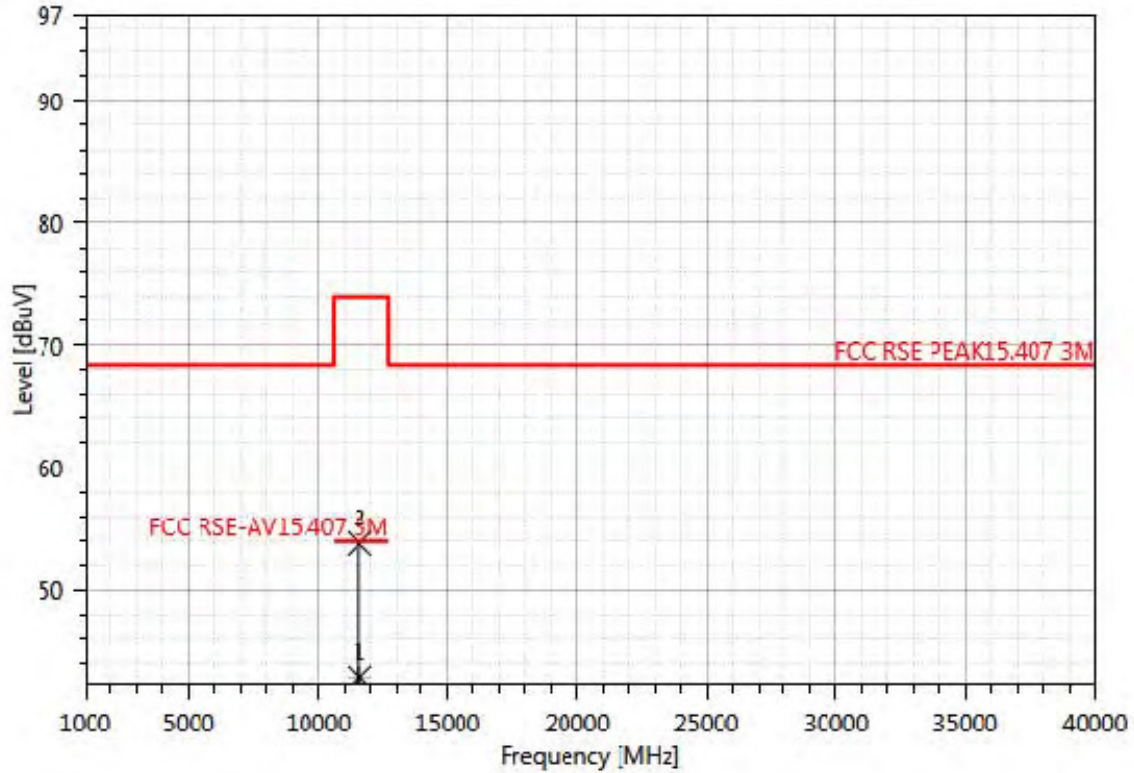
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Operation Mode :	802.11 n40B4	Test Date :	08/04/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11590.00	H	Average	42.88	22.45	20.43	54.00	-11.12
11590.00	H	Peak	53.82	33.39	20.43	74.00	-20.18

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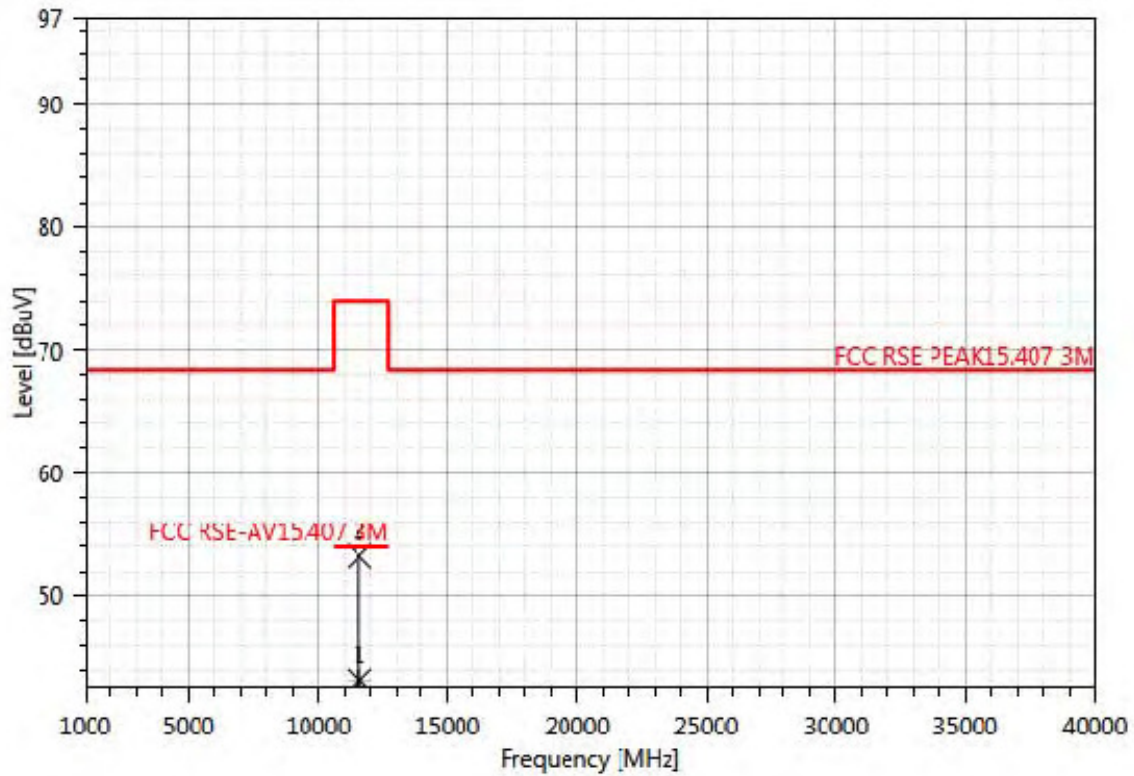
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Operation Mode :	802.11 n40B4	Test Date :	08/04/2016
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11590.00	H	Average	43.13	22.70	20.43	54.00	-10.87
11590.00	H	Peak	53.27	32.84	20.43	74.00	-20.73

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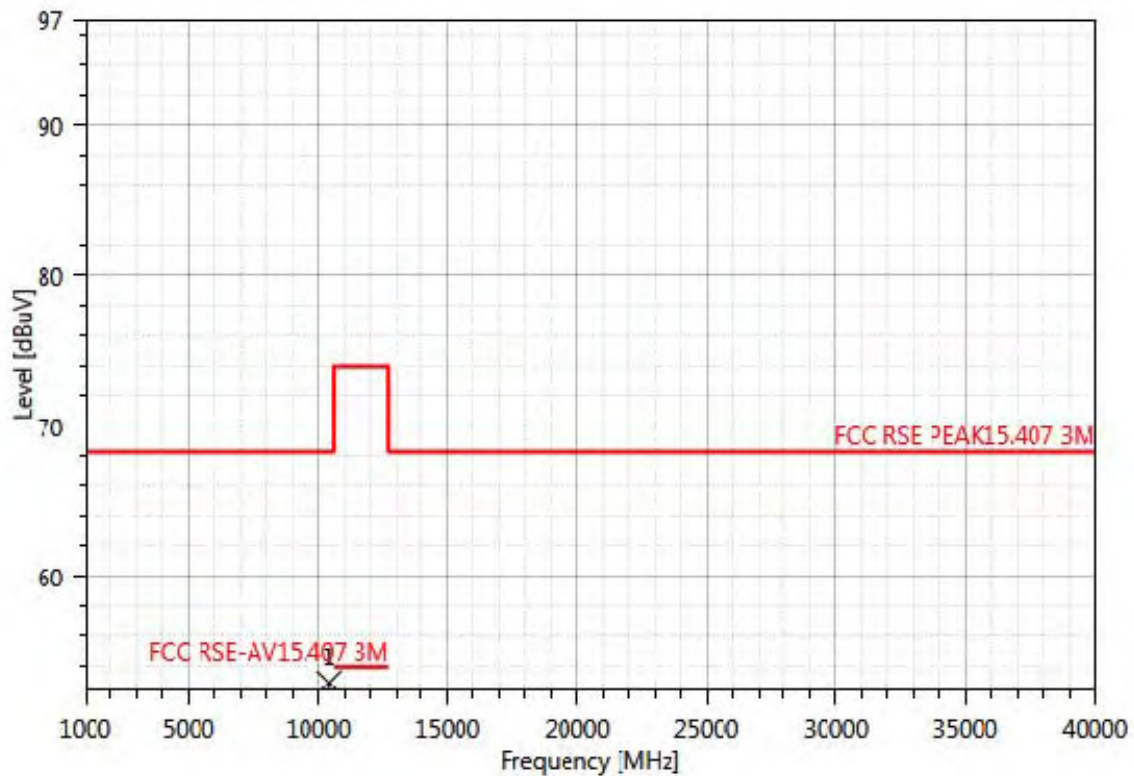
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11 ac80B1	Test Date :	08/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10420.00	H	Peak	52.95	34.24	18.71	68.30	-15.35

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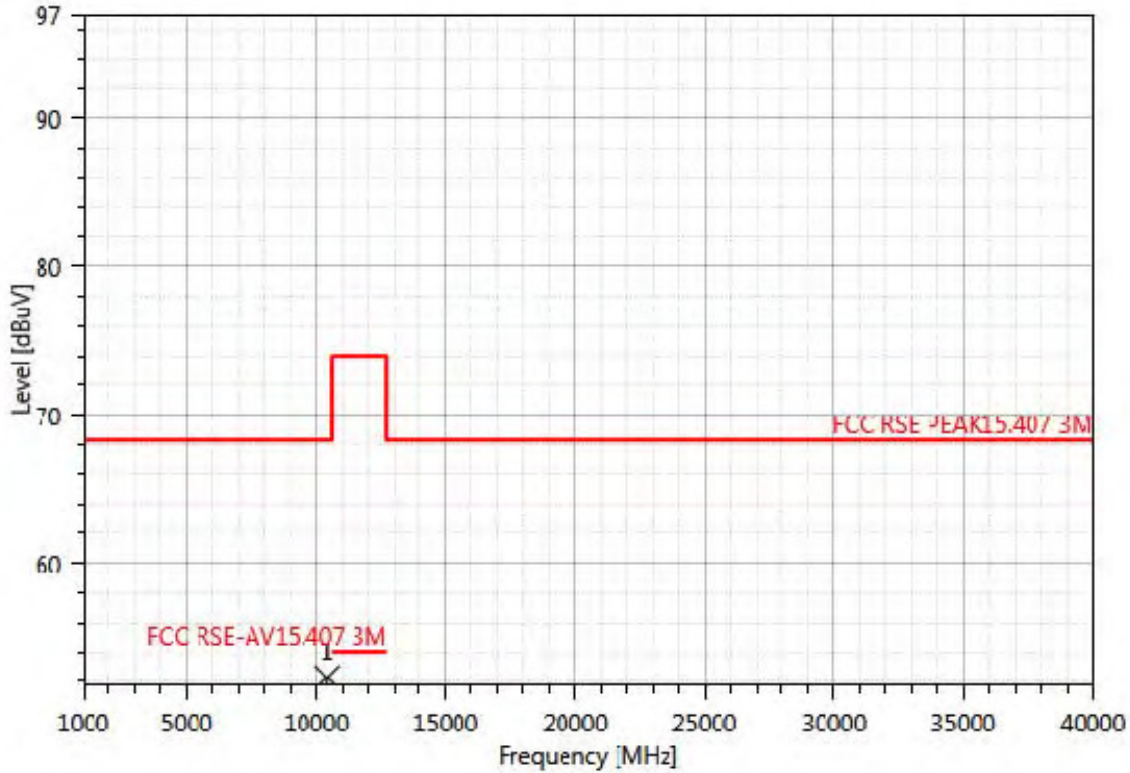
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Operation Mode :	802.11 ac80B1	Test Date :	08/04/2016
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10420.00	H	Peak	52.29	33.58	18.71	68.30	-16.01

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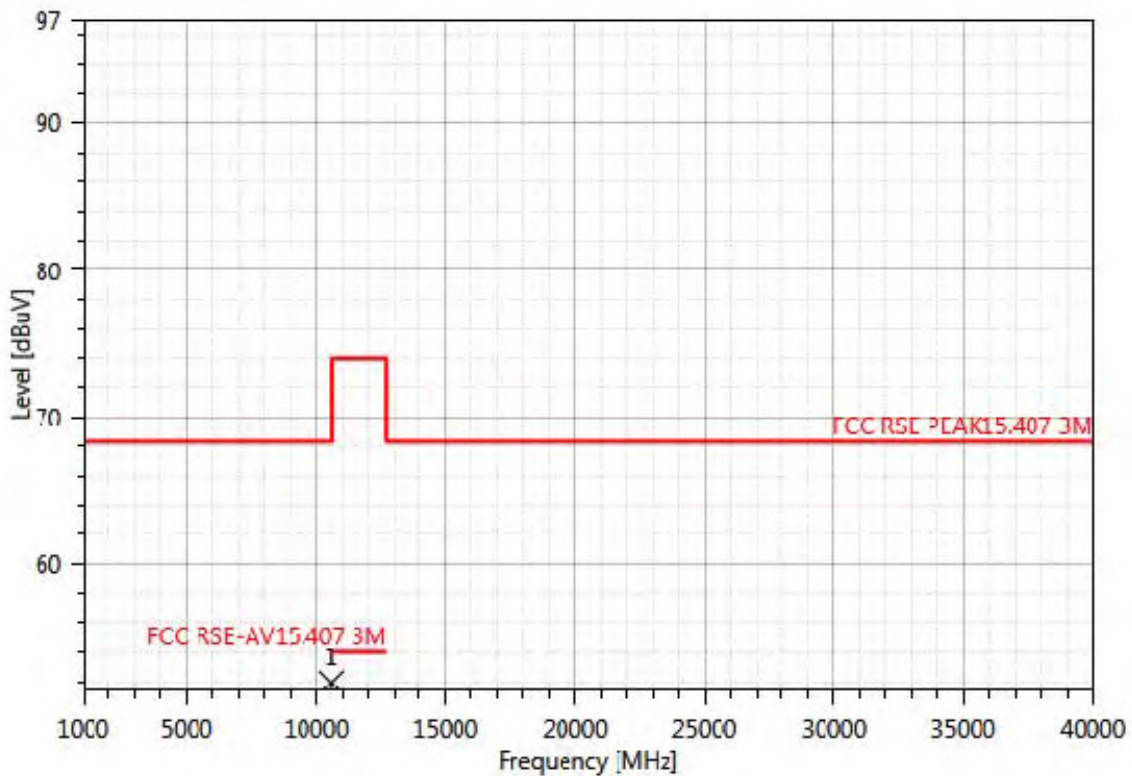
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11 ac80B2	Test Date :	08/04/2016
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
10580.00	H	Peak	51.91	33.04	18.88	68.30	-16.39

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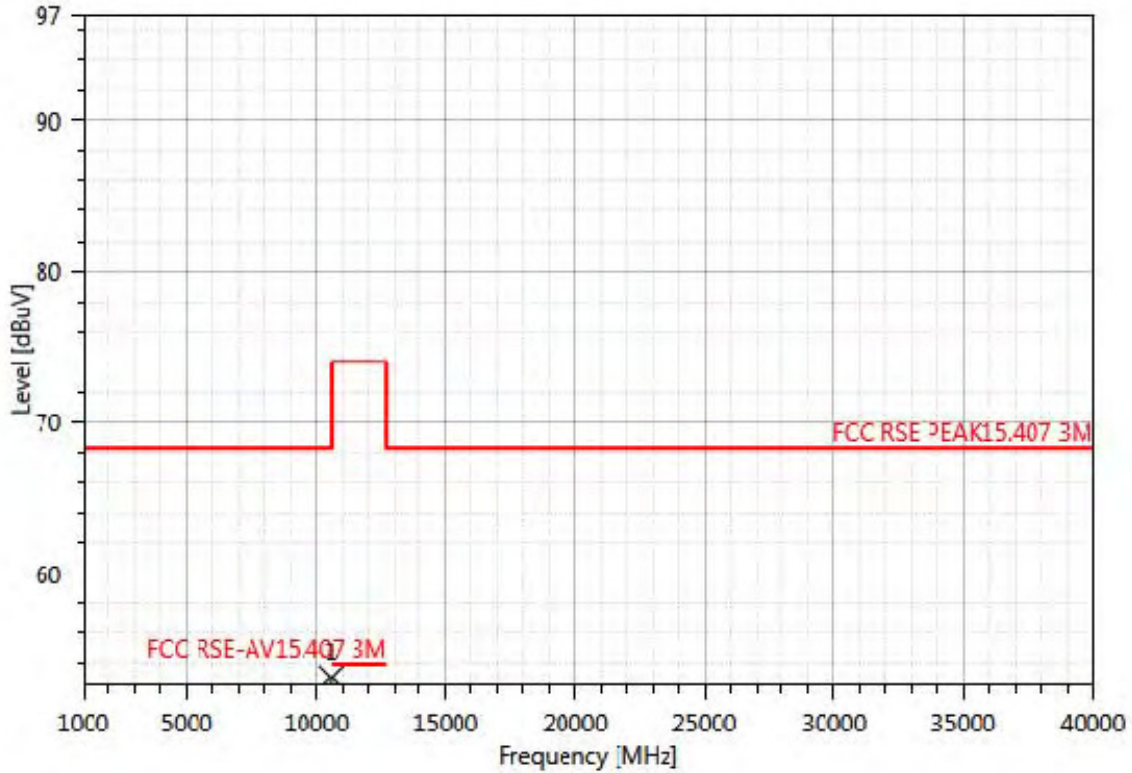
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Operation Mode : 802.11 ac80B2      Test Date : 08/04/2016  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
10580.00	H	Peak	53.10	34.23	18.88	68.30	-15.20

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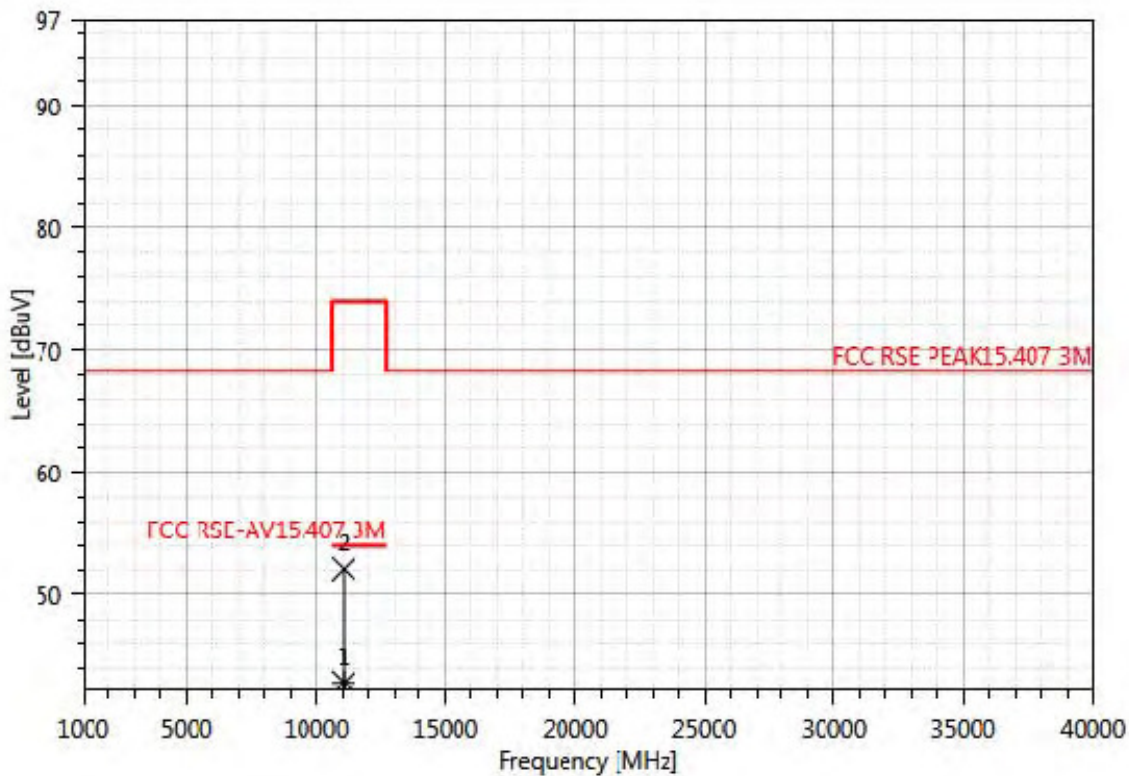
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11060.00	H	Average	42.82	22.56	20.26	54.00	-11.18
11060.00	H	Peak	52.13	31.87	20.26	74.00	-21.87

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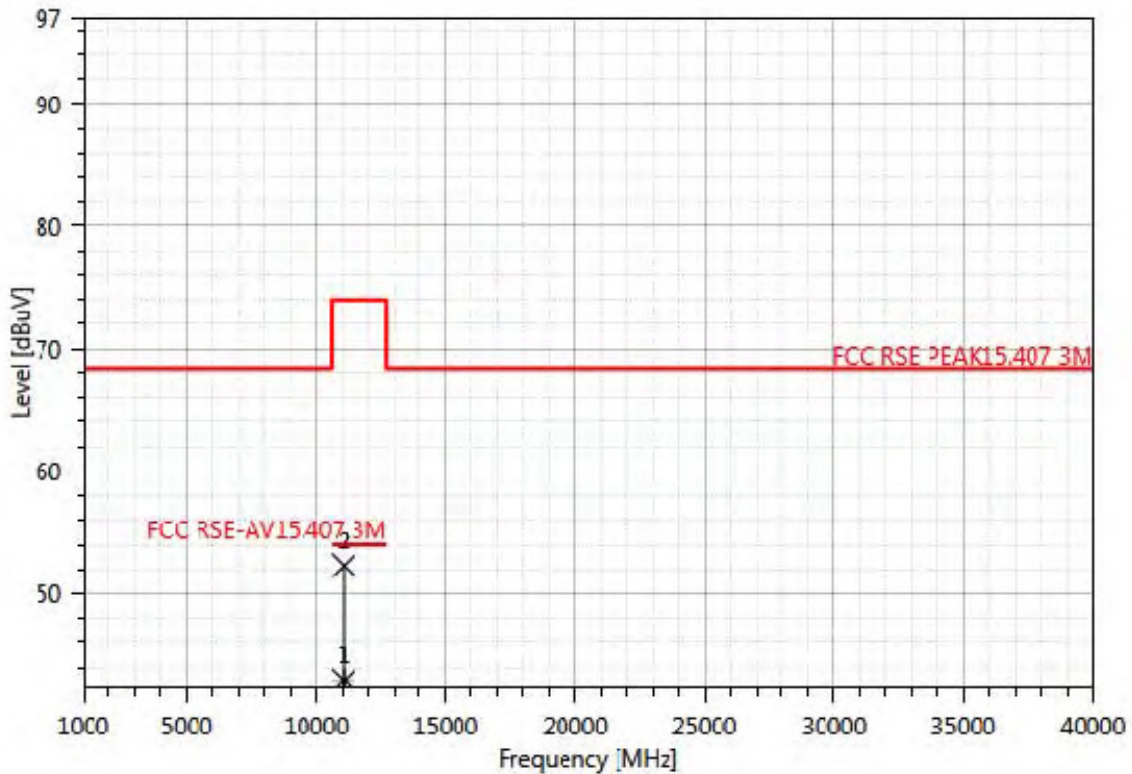
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11060.00	H	Average	42.94	22.67	20.26	54.00	-11.06
11060.00	H	Peak	52.32	32.05	20.26	74.00	-21.68

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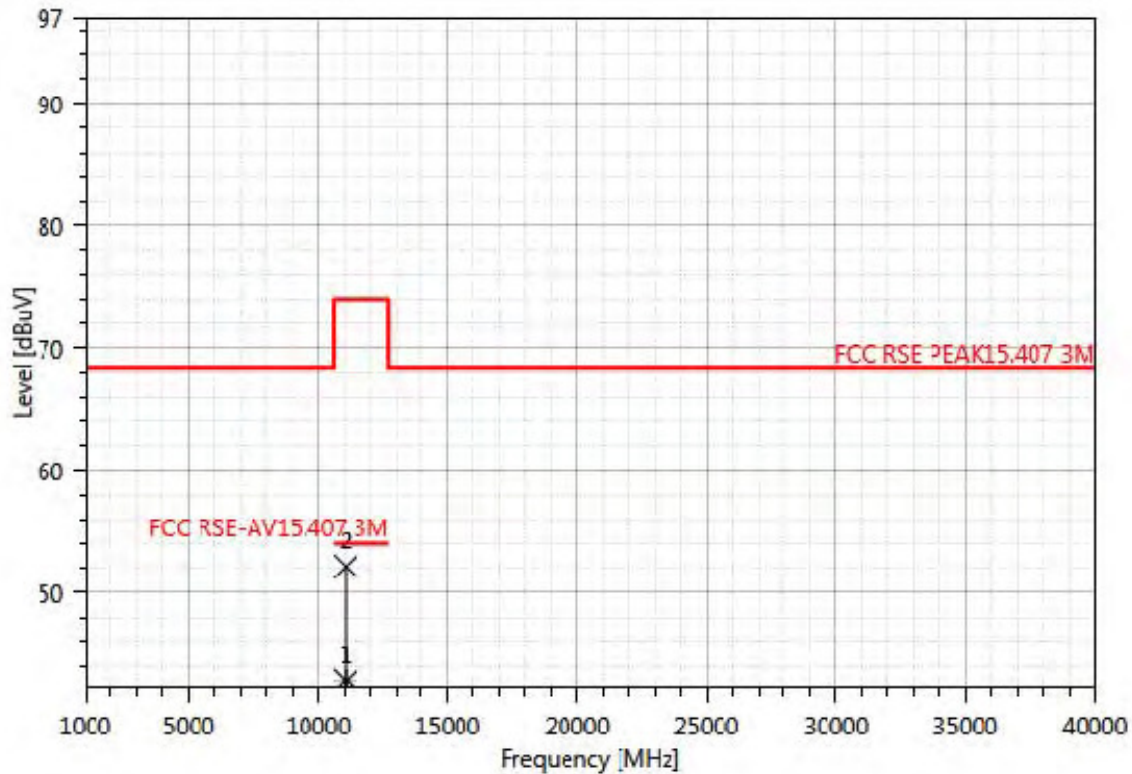
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11060.00	H	Average	42.82	22.56	20.26	54.00	-11.18
11060.00	H	Peak	52.13	31.87	20.26	74.00	-21.87

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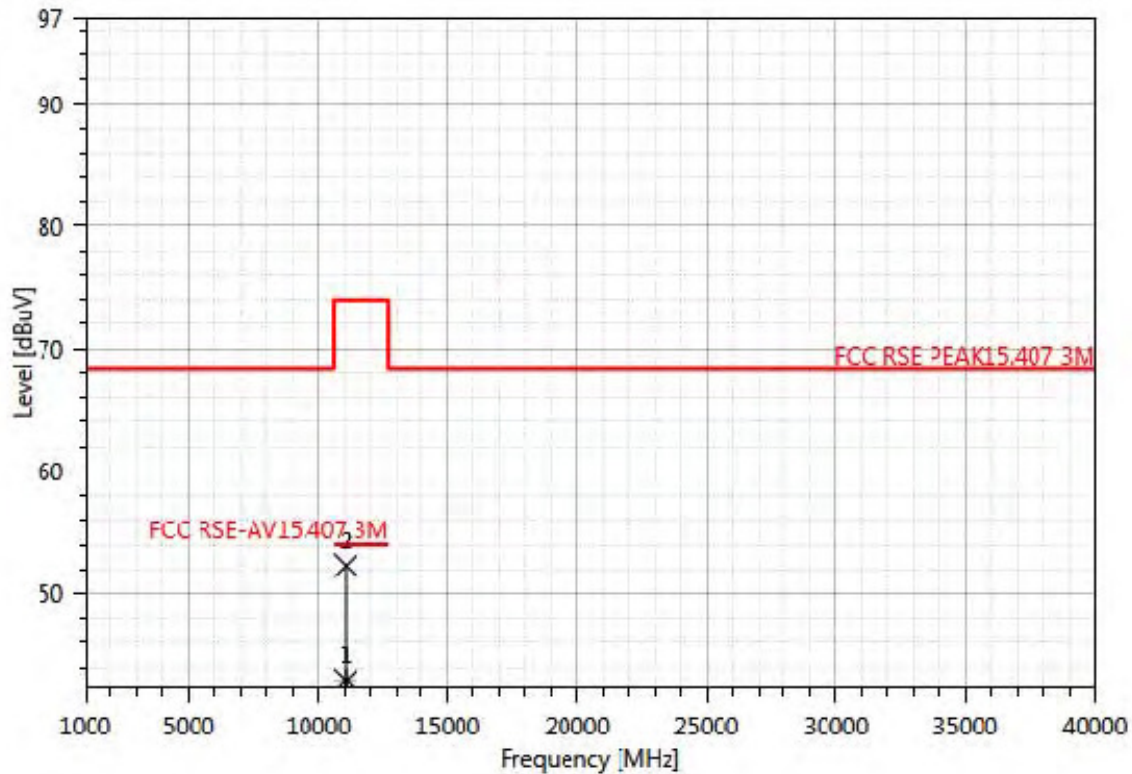
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11060.00	H	Average	42.94	22.67	20.26	54.00	-11.06
11060.00	H	Peak	52.32	32.05	20.26	74.00	-21.68

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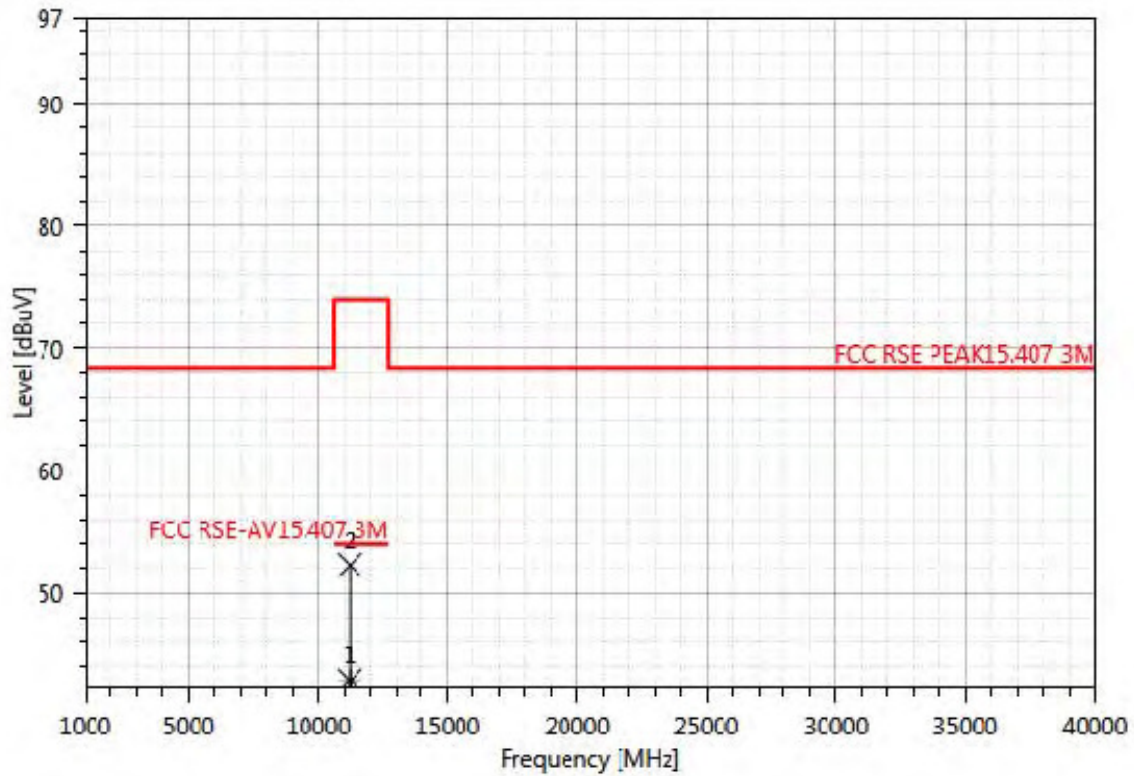
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	42.87	22.39	20.48	54.00	-11.13
11220.00	H	Peak	52.30	31.82	20.48	74.00	-21.70

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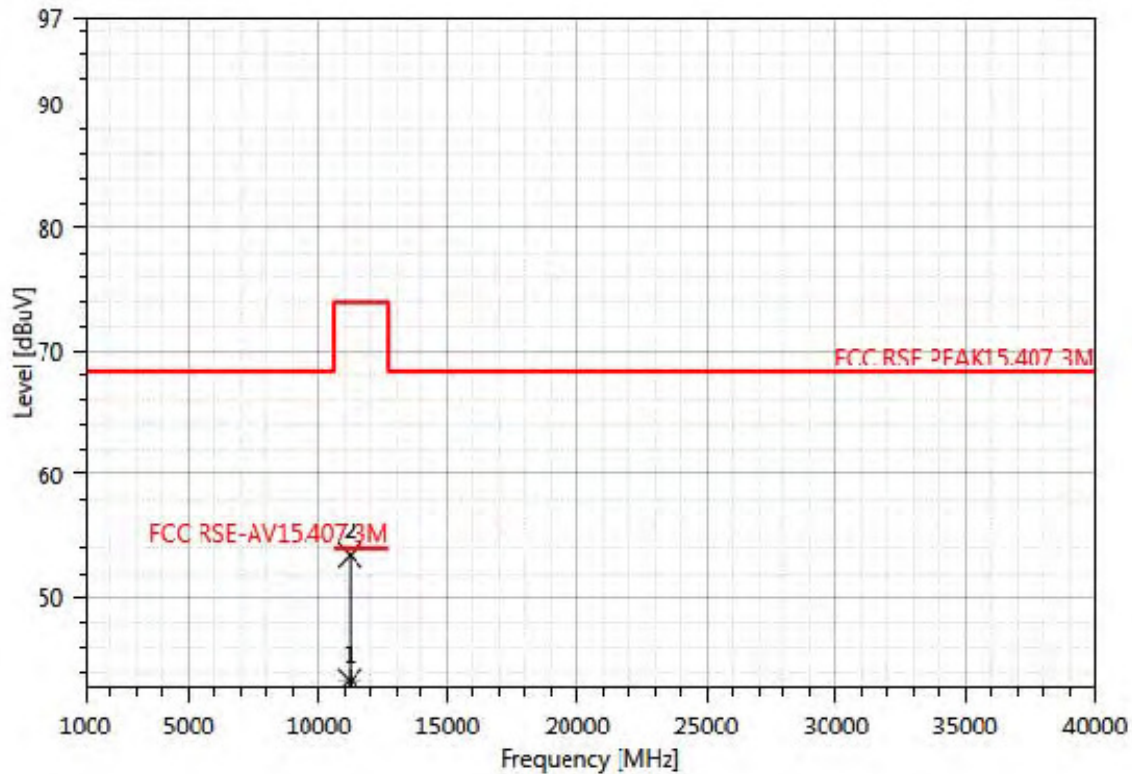
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	43.32	22.84	20.48	54.00	-10.68
11220.00	H	Peak	53.47	33.00	20.48	74.00	-20.53

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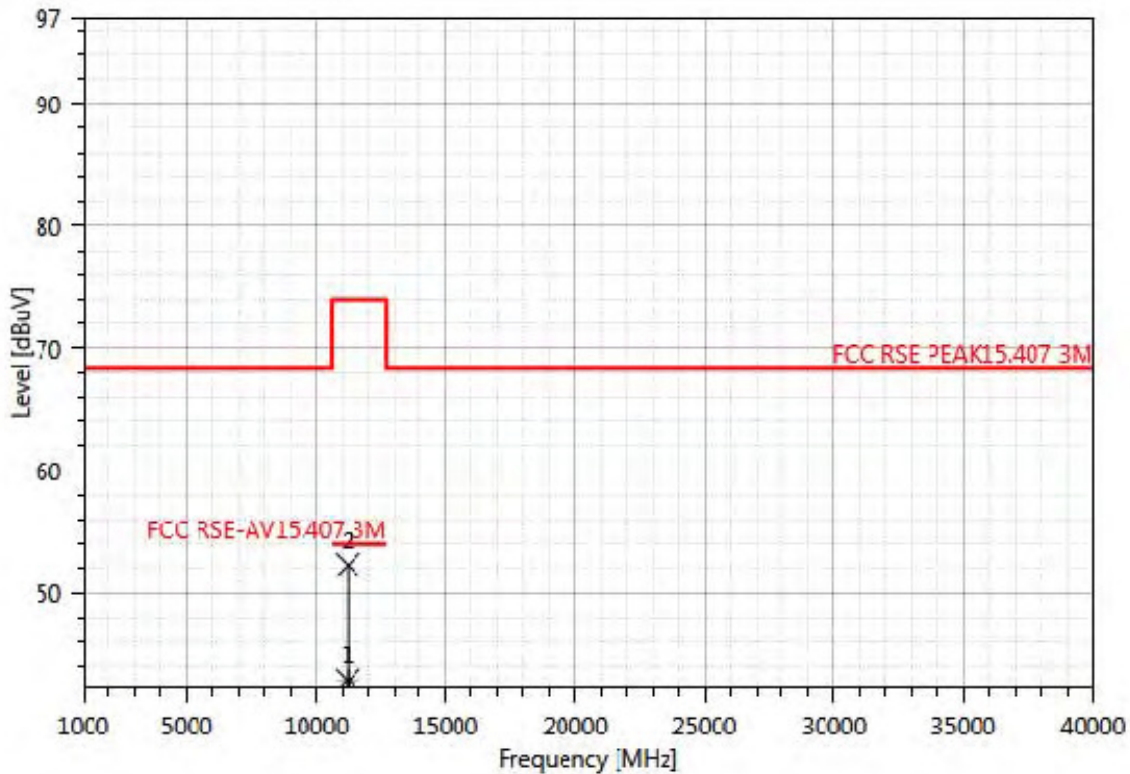
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Operation Mode :	802.11 ac80B3	Test Date :	08/04/2016
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	42.87	22.39	20.48	54.00	-11.13
11220.00	H	Peak	52.30	31.82	20.48	74.00	-21.70

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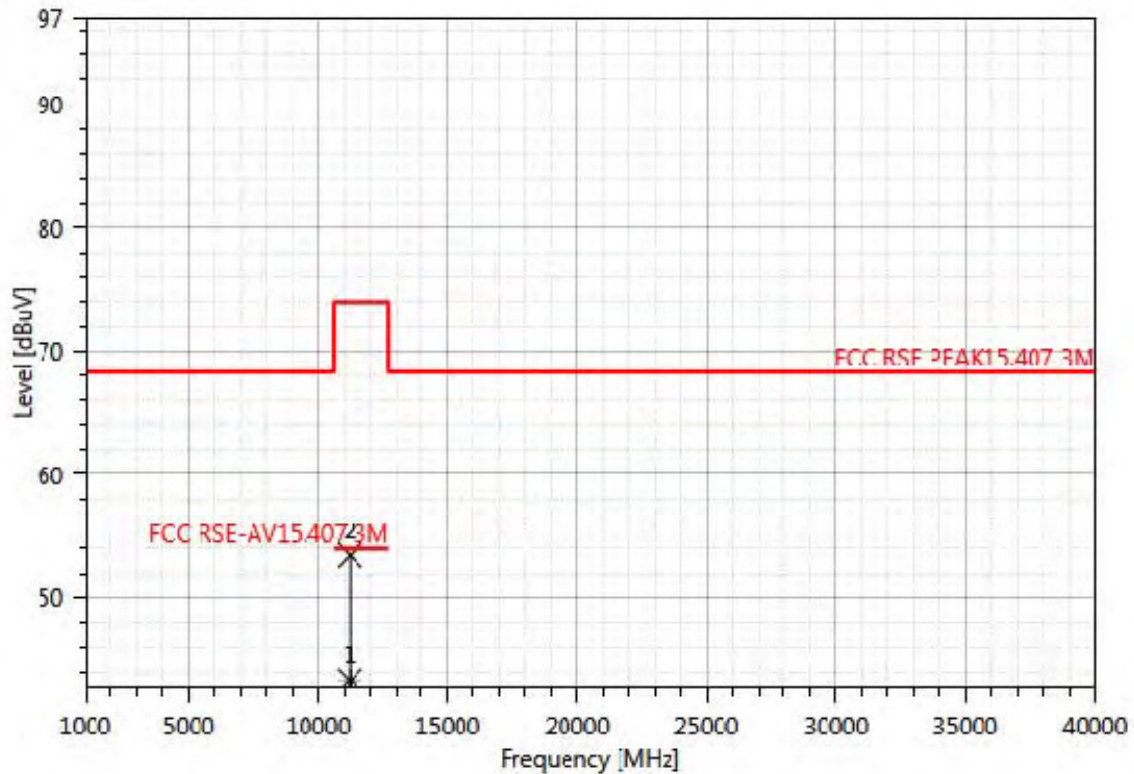
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Operation Mode : 802.11 ac80B3      Test Date : 08/04/2016  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Tin  
 EUT Pol. : H Plane      Measurement Antenna Pol. : HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11220.00	H	Average	43.32	22.84	20.48	54.00	-10.68
11220.00	H	Peak	53.47	33.00	20.48	74.00	-20.53

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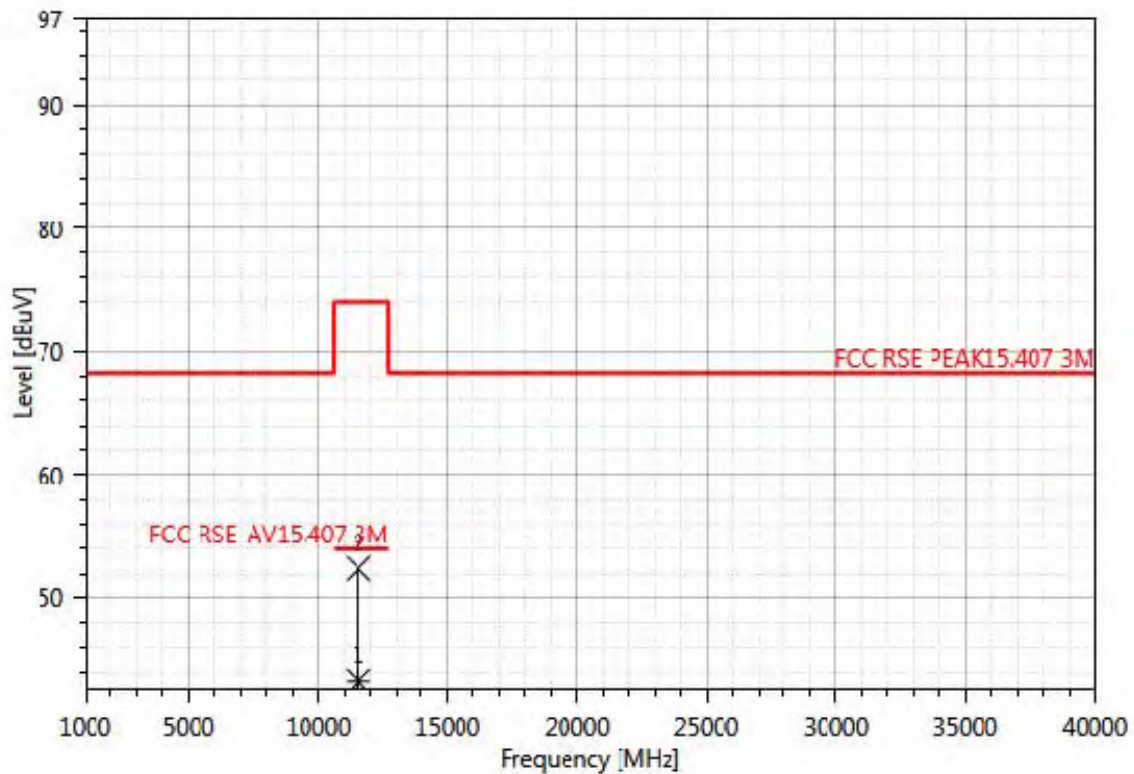
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	08/04/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	VERTICAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dBuV/m	Margin dB
11550.00	H	Average	43.30	22.78	20.52	54.00	-10.70
11550.00	H	Peak	52.43	31.92	20.52	74.00	-21.57

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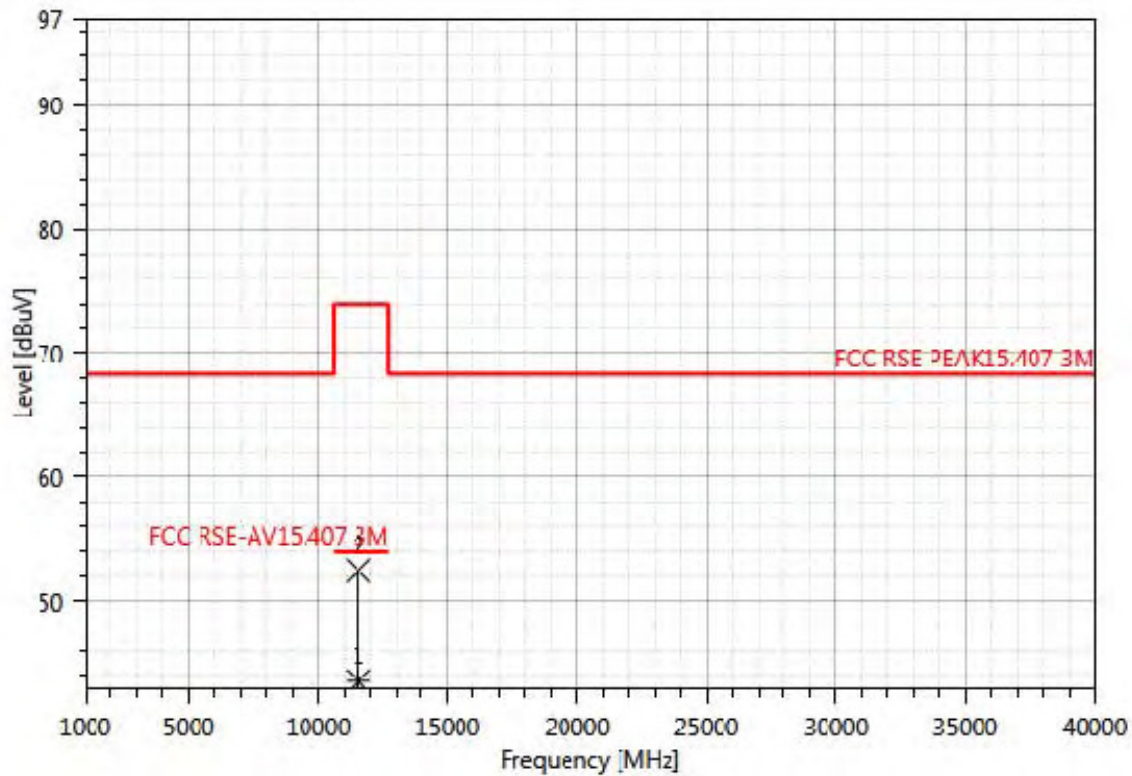
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Operation Mode :	802.11 ac80B4	Test Date :	08/04/2016
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Tin
EUT Pol. :	H Plane	Measurement Antenna Pol. :	HORIZONTAL



Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBμV/m	Spectrum FS dBμV/m	Factor dB	Limit @3m dBuV/m	Margin dB
11550.00	H	Average	43.51	22.99	20.52	54.00	-10.49
11550.00	H	Peak	52.45	31.93	20.52	74.00	-21.55

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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode : 802.11 aB1 Test Date : 08/04/2016  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	44.56	38.68	5.88	54.00	-9.44
5150.00	E	Peak	66.70	60.81	5.88	74.00	-7.30

Operation Mode : 802.11 aB1 Test Date : 08/04/2016  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5150.00	E	Average	43.81	37.93	5.88	54.00	-10.19
5150.00	E	Peak	64.19	58.31	5.88	74.00	-9.81

Operation Mode : 802.11 aB3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5460.00	E	Average	39.61	33.38	6.23	54.00	-14.39
5460.00	E	Peak	63.61	57.37	6.23	74.00	-10.39

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Operation Mode : 802.11 aB3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	41.53	35.30	6.23	54.00	-12.47
5460.00	E	Peak	62.29	56.06	6.23	74.00	-11.71

Operation Mode : 802.11 aB3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	66.90	60.63	6.26	68.30	-1.40

Operation Mode : 802.11 aB3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	66.37	60.11	6.26	68.30	-1.93

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Operation Mode : 802.11 aB4 Test Date : 08/04/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	46.82	40.34	6.48	68.23	-21.41
5700.00	E	Peak	62.66	55.98	6.68	105.23	-42.57
5720.00	E	Peak	70.10	63.50	6.60	110.83	-40.73
5725.00	E	Peak	76.16	69.57	6.59	122.23	-46.07

Operation Mode : 802.11 aB4 Test Date : 08/04/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.69	41.21	6.48	68.23	-20.54
5700.00	E	Peak	60.88	54.21	6.68	105.23	-44.35
5720.00	E	Peak	68.72	62.12	6.60	110.83	-42.11
5725.00	E	Peak	72.83	66.24	6.59	122.23	-49.40

Operation Mode : 802.11 aB4 Test Date : 08/04/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	66.62	59.34	7.28	122.23	-55.61
5855.00	E	Peak	65.86	58.55	7.32	110.83	-44.97
5875.00	E	Peak	57.56	50.19	7.37	105.23	-47.67
5925.00	E	Peak	48.39	41.00	7.39	68.23	-19.84

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Operation Mode : 802.11 aB4 Test Date : 08/04/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	66.06	58.78	7.28	122.23	-56.17
5855.00	E	Peak	64.99	57.67	7.32	110.83	-45.84
5875.00	E	Peak	57.07	49.70	7.37	105.23	-48.16
5925.00	E	Peak	48.68	41.29	7.39	68.23	-19.55

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**802.11n20 HT mode**

Operation Mode : 802.11n20B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	39.31	33.43	5.88	54.00	-14.69
5150.00	E	Peak	62.87	56.99	5.88	74.00	-11.13

Operation Mode : 802.11n20B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	37.14	31.26	5.88	54.00	-16.86
5150.00	E	Peak	61.51	55.63	5.88	74.00	-12.49

Operation Mode : 802.11n20B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	39.32	33.09	6.23	54.00	-14.68
5460.00	E	Peak	62.87	56.64	6.23	74.00	-11.13

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Operation Mode : 802.11 n20B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	37.76	31.52	6.23	54.00	-16.24
5460.00	E	Peak	60.20	53.96	6.23	74.00	-13.80

Operation Mode : 802.11 n20B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	66.96	60.70	6.26	68.30	-1.34

Operation Mode : 802.11 n20B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5500 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	63.04	56.78	6.26	68.30	-5.26

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Operation Mode : 802.11 n20B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.26	40.78	6.48	68.23	-20.97
5700.00	E	Peak	59.08	52.40	6.68	105.23	-46.15
5720.00	E	Peak	68.03	61.43	6.60	110.83	-42.80
5725.00	E	Peak	71.18	64.58	6.59	122.23	-51.06

Operation Mode : 802.11 n20B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.17	40.69	6.48	68.23	-21.06
5700.00	E	Peak	57.38	50.70	6.68	105.23	-47.85
5720.00	E	Peak	64.70	58.10	6.60	110.83	-46.13
5725.00	E	Peak	67.40	60.81	6.59	122.23	-54.83

Operation Mode : 802.11 n20B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	66.19	58.91	7.28	122.23	-56.04
5855.00	E	Peak	61.33	54.01	7.32	110.83	-49.50
5875.00	E	Peak	54.44	47.07	7.37	105.23	-50.79
5925.00	E	Peak	47.92	40.53	7.39	68.23	-20.31

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Operation Mode : 802.11n20B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	61.38	54.10	7.28	122.23	-60.85
5855.00	E	Peak	58.09	50.77	7.32	110.83	-52.74
5875.00	E	Peak	49.10	41.73	7.37	105.23	-56.13
5925.00	E	Peak	47.98	40.59	7.39	68.23	-20.25

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### 802.11n40 HT mode

Operation Mode : 802.11n40B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	43.69	37.81	5.88	54.00	-10.31
5150.00	E	Peak	63.71	57.82	5.88	74.00	-10.29

Operation Mode : 802.11n40B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	41.99	36.11	5.88	54.00	-12.01
5150.00	E	Peak	61.78	55.90	5.88	74.00	-12.22

Operation Mode : 802.11n40B2 Test Date : 08/04/2016  
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5350.00	E	Average	41.89	35.74	6.15	54.00	-12.11
5350.00	E	Peak	66.31	60.16	6.15	74.00	-7.69

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Operation Mode : 802.11 n40B2 Test Date : 08/04/2016  
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5350.00	E	Average	39.39	33.24	6.15	54.00	-14.61
5350.00	E	Peak	62.82	56.67	6.15	74.00	-11.18

Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	40.15	33.92	6.23	54.00	-13.85
5460.00	E	Peak	62.22	55.99	6.23	74.00	-11.78

Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	38.38	32.14	6.23	54.00	-15.62
5460.00	E	Peak	59.57	53.33	6.23	74.00	-14.43

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Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	64.25	57.98	6.26	68.30	-4.05

Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5470.00	E	Peak	62.62	56.36	6.26	68.30	-5.68

Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5725.00	E	Peak	58.17	51.58	6.59	68.30	-10.13

Operation Mode : 802.11 n40B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5725.00	E	Peak	56.97	50.38	6.59	68.30	-11.33

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Operation Mode : 802.11 n40B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	50.59	44.11	6.48	68.23	-17.64
5700.00	E	Peak	59.08	52.41	6.68	105.23	-46.15
5720.00	E	Peak	68.80	62.20	6.60	110.83	-42.03
5725.00	E	Peak	68.99	62.40	6.59	122.23	-53.24

Operation Mode : 802.11 n40B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.89	41.41	6.48	68.23	-20.34
5700.00	E	Peak	58.01	51.33	6.68	105.23	-47.22
5720.00	E	Peak	65.73	59.13	6.60	110.83	-45.10
5725.00	E	Peak	66.36	59.77	6.59	122.23	-55.87

Operation Mode : 802.11 n40B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	58.31	51.03	7.28	122.23	-63.92
5855.00	E	Peak	58.50	51.18	7.32	110.83	-52.33
5875.00	E	Peak	48.85	41.48	7.37	105.23	-56.38
5925.00	E	Peak	48.10	40.71	7.39	68.23	-20.13

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Operation Mode : 802.11n40B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	55.87	48.59	7.28	122.23	-66.36
5855.00	E	Peak	56.21	48.89	7.32	110.83	-54.62
5875.00	E	Peak	47.70	40.33	7.37	105.23	-57.53
5925.00	E	Peak	49.03	41.64	7.39	68.23	-19.20

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### 802.11ac80 VHT mode

Operation Mode : 802.11 ac80B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	36.90	31.02	5.88	54.00	-17.10
5150.00	E	Peak	60.16	54.27	5.88	74.00	-13.84

Operation Mode : 802.11 ac80B1 Test Date : 08/04/2016  
 Fundamental Frequency : 5210 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5150.00	E	Average	36.05	30.17	5.88	54.00	-17.95
5150.00	E	Peak	55.10	49.22	5.88	74.00	-18.90

Operation Mode : 802.11 ac80B2 Test Date : 08/04/2016  
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5350.00	E	Average	37.88	31.73	6.15	54.00	-16.12
5350.00	E	Peak	60.44	54.29	6.15	74.00	-13.56

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Operation Mode : 802.11 ac80B2 Test Date : 08/04/2016  
 Fundamental Frequency : 5290 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5350.00	E	Average	36.47	30.32	6.15	54.00	-17.53
5350.00	E	Peak	55.24	49.09	6.15	74.00	-18.76

Operation Mode : 802.11 ac80B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	38.16	31.93	6.23	54.00	-15.84
5460.00	E	Peak	60.88	54.65	6.23	74.00	-13.12

Operation Mode : 802.11 ac80B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBμV/m	dBμV/m	dB	dBuV/m	dB
5460.00	E	Average	37.15	30.92	6.23	54.00	-16.85
5460.00	E	Peak	58.32	52.08	6.23	74.00	-15.68

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Operation Mode : 802.11 ac80B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
5470.00	E	Peak	64.15	57.89	6.26	68.30	-4.15

Operation Mode : 802.11 ac80B3 Test Date : 08/04/2016  
 Fundamental Frequency : 5530 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
5470.00	E	Peak	59.01	52.75	6.26	68.30	-9.29

Operation Mode : 802.11 ac80B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW | Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @3m	Margin
MHz	F/H/E/S	QP/AV/PK	dB $\mu$ V/m	dB $\mu$ V/m	dB	dBuV/m	dB
5650.00	E	Peak	61.48	55.00	6.48	68.23	-6.75
5700.00	E	Peak	59.01	52.34	6.68	105.23	-46.22
5720.00	E	Peak	61.86	55.26	6.60	110.83	-48.97
5725.00	E	Peak	66.06	59.47	6.59	122.23	-56.17

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Operation Mode : 802.11 ac80B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	57.13	50.65	6.48	68.23	-11.10
5700.00	E	Peak	54.31	47.63	6.68	105.23	-50.92
5720.00	E	Peak	59.58	52.98	6.60	110.83	-51.25
5725.00	E	Peak	61.99	55.40	6.59	122.23	-60.24

Operation Mode : 802.11 ac80B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	57.81	50.53	7.28	122.23	-64.42
5855.00	E	Peak	57.21	49.89	7.32	110.83	-53.62
5875.00	E	Peak	53.55	46.18	7.37	105.23	-51.68
5925.00	E	Peak	52.54	45.15	7.39	68.23	-15.69

Operation Mode : 802.11 ac80B4 Test Date : 08/04/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	55.27	47.99	7.28	122.23	-66.96
5855.00	E	Peak	54.94	47.62	7.32	110.83	-55.89
5875.00	E	Peak	51.63	44.26	7.37	105.23	-53.60
5925.00	E	Peak	51.98	44.59	7.39	68.23	-16.25

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**Band edge falling to restricted band (5725~5850MHz) for IC**

**802.11a mode**

Operation Mode : 802.11 aB4 Test Date : 08/29/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	46.82	40.34	6.48	68.30	-21.48
5700.00	E	Peak	62.66	55.98	6.68	68.30	-5.64
5720.00	E	Peak	70.10	63.50	6.60	78.20	-8.10
5725.00	E	Peak	76.16	69.57	6.59	78.20	-2.04

Operation Mode : 802.11 aB4 Test Date : 08/29/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.69	41.21	6.48	68.30	-20.61
5700.00	E	Peak	60.88	54.21	6.68	68.30	-7.42
5720.00	E	Peak	68.72	62.12	6.60	78.20	-9.48
5725.00	E	Peak	72.83	66.24	6.59	78.20	-5.37

Operation Mode : 802.11 aB4 Test Date : 08/29/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	66.62	59.34	7.28	78.20	-11.58
5855.00	E	Peak	65.86	58.55	7.32	78.20	-12.34
5875.00	E	Peak	57.56	50.19	7.37	68.30	-10.74
5925.00	E	Peak	48.39	41.00	7.39	68.30	-19.91

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Operation Mode : 802.11 aB4 Test Date : 08/29/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	66.06	58.78	7.28	78.20	-12.14
5855.00	E	Peak	64.99	57.67	7.32	78.20	-13.21
5875.00	E	Peak	57.07	49.70	7.37	68.30	-11.23
5925.00	E	Peak	48.68	41.29	7.39	68.30	-19.62

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**802.11n20 HT mode**

Operation Mode : 802.11 n20B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5650.00	E	Peak	47.26	40.78	6.48	68.30	-21.04
5700.00	E	Peak	59.08	52.40	6.68	68.30	-9.22
5720.00	E	Peak	68.03	61.43	6.60	78.20	-10.17
5725.00	E	Peak	71.18	64.58	6.59	78.20	-7.02

Operation Mode : 802.11 n20B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5650.00	E	Peak	47.17	40.69	6.48	68.30	-21.13
5700.00	E	Peak	57.38	50.70	6.68	68.30	-10.92
5720.00	E	Peak	64.70	58.10	6.60	78.20	-13.50
5725.00	E	Peak	67.40	60.81	6.59	78.20	-10.80

Operation Mode : 802.11 n20B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	66.19	58.91	7.28	78.20	-12.01
5855.00	E	Peak	61.33	54.01	7.32	78.20	-16.87
5875.00	E	Peak	54.44	47.07	7.37	68.30	-13.86
5925.00	E	Peak	47.92	40.53	7.39	68.30	-20.38

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Operation Mode : 802.11n20B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	61.38	54.10	7.28	78.20	-16.82
5855.00	E	Peak	58.09	50.77	7.32	78.20	-20.11
5875.00	E	Peak	49.10	41.73	7.37	68.30	-19.20
5925.00	E	Peak	47.98	40.59	7.39	68.30	-20.32

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### 802.11n40 HT mode

Operation Mode : 802.11n40B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	50.59	44.11	6.48	68.30	-17.71
5700.00	E	Peak	59.08	52.41	6.68	68.30	-9.22
5720.00	E	Peak	68.80	62.20	6.60	78.20	-9.40
5725.00	E	Peak	68.99	62.40	6.59	78.20	-9.21

Operation Mode : 802.11n40B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5650.00	E	Peak	47.89	41.41	6.48	68.30	-20.41
5700.00	E	Peak	58.01	51.33	6.68	68.30	-10.29
5720.00	E	Peak	65.73	59.13	6.60	78.20	-12.47
5725.00	E	Peak	66.36	59.77	6.59	78.20	-11.84

Operation Mode : 802.11n40B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	58.31	51.03	7.28	78.20	-19.89
5855.00	E	Peak	58.50	51.18	7.32	78.20	-19.70
5875.00	E	Peak	48.85	41.48	7.37	68.30	-19.45
5925.00	E	Peak	48.10	40.71	7.39	68.30	-20.20

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Operation Mode : 802.11n40B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	55.87	48.59	7.28	78.20	-22.33
5855.00	E	Peak	56.21	48.89	7.32	78.20	-21.99
5875.00	E	Peak	47.70	40.33	7.37	68.30	-20.60
5925.00	E	Peak	49.03	41.64	7.39	68.30	-19.27

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### 802.11ac80 VHT mode

Operation Mode : 802.11 ac80B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5650.00	E	Peak	61.48	55.00	6.48	68.30	-6.82
5700.00	E	Peak	59.01	52.34	6.68	68.30	-9.29
5720.00	E	Peak	61.86	55.26	6.60	78.20	-16.34
5725.00	E	Peak	66.06	59.47	6.59	78.20	-12.14

Operation Mode : 802.11 ac80B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5650.00	E	Peak	57.13	50.65	6.48	68.30	-11.17
5700.00	E	Peak	54.31	47.63	6.68	68.30	-13.99
5720.00	E	Peak	59.58	52.98	6.60	78.20	-18.62
5725.00	E	Peak	61.99	55.40	6.59	78.20	-16.21

Operation Mode : 802.11 ac80B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : VERTICAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	57.81	50.53	7.28	78.20	-20.39
5855.00	E	Peak	57.21	49.89	7.32	78.20	-20.99
5875.00	E	Peak	53.55	46.18	7.37	68.30	-14.75
5925.00	E	Peak	52.54	45.15	7.39	68.30	-15.76

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Operation Mode : 802.11 ac80B4 Test Date : 08/29/2016  
 Fundamental Frequency : 5775 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Tin  
 EUT Pol. : H Plane Measurement Antenna Pol. : HORIZONTAL

Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dB $\mu$ V/m	Spectrum FS dB $\mu$ V/m	Factor dB	Limit @3m dB $\mu$ V/m	Margin dB
5850.00	E	Peak	55.27	47.99	7.28	78.20	-22.93
5855.00	E	Peak	54.94	47.62	7.32	78.20	-23.26
5875.00	E	Peak	51.63	44.26	7.37	68.30	-16.67
5925.00	E	Peak	51.98	44.59	7.39	68.30	-16.32

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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

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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## 13. FREQUENCY STABILITY

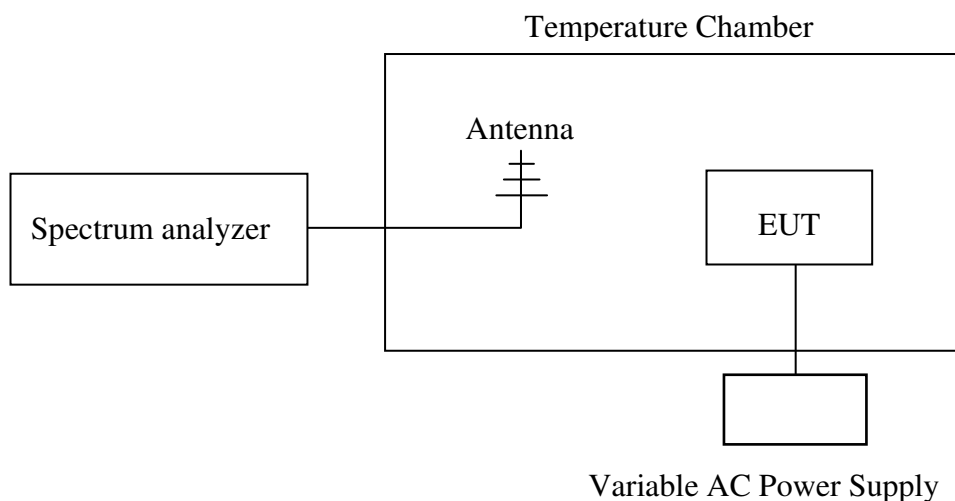
### 13.1 Standard Applicable

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



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### 13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016

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### 13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2016.08.09
Temperature	:17 °C	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.63V	36	5180	5,179.97022	0.00000575
		44	5220	5,219.94019	0.00001146
		48	5240	5,239.96997	0.00000573
		52	5260	5,259.93994	0.00001142
		60	5300	5,299.92505	0.00001414
		64	5320	5,319.93994	0.00001129
		100	5500	5,499.98511	0.00000271
		116	5580	5,579.95508	0.00000805
		140	5700	5,699.89502	0.00001842
		149	5745	5,744.95508	0.00000782
		157	5785	5,784.95508	0.00000777
		165	5825	5,824.88013	0.00002058
	2.97V	36	5180	5,180.00000	0.00000000
		44	5220	5,219.98511	0.00000285
		48	5240	5,239.92505	0.00001430
		52	5260	5,259.96997	0.00000571
		60	5300	5,299.93994	0.00001133
		64	5320	5,319.94019	0.00001124
		100	5500	5,499.96997	0.00000546
		116	5580	5,579.93994	0.00001076
		140	5700	5,699.91016	0.00001576
		149	5745	5,744.93994	0.00001045
		157	5785	5,784.95483	0.00000781
		165	5825	5,824.91016	0.00001542

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25 °C	3.3V	36	5180	5,179.95508	0.00000867
		44	5220	5,219.96997	0.00000575
		48	5240	5,239.96997	0.00000573
		52	5260	5,259.92505	0.00001425
		60	5300	5,299.96997	0.00000567
		64	5320	5,319.88013	0.00002253
		100	5500	5,499.93994	0.00001092
		116	5580	5,579.95508	0.00000805
		140	5700	5,699.93994	0.00001054
		149	5745	5,744.91016	0.00001564
		157	5785	5,784.95508	0.00000777
		165	5825	5,824.92505	0.00001287

55 °C	3.63V	36	5180	5,179.92505	0.00001447
		44	5220	5,219.95483	0.00000865
		48	5240	5,239.95508	0.00000857
		52	5260	5,259.94019	0.00001137
		60	5300	5,299.96997	0.00000567
		64	5320	5,319.83496	0.00003102
		100	5500	5,499.92505	0.00001363
		116	5580	5,579.95508	0.00000805
		140	5700	5,699.93994	0.00001054
		149	5745	5,744.91016	0.00001564
		157	5785	5,784.93994	0.00001038
		165	5825	5,824.95508	0.00000771
	2.97V	36	5180	5,179.96997	0.00000580
		44	5220	5,219.92505	0.00001436
		48	5240	5,239.98486	0.00000289
		52	5260	5,260.00000	0.00000000
		60	5300	5,299.98511	0.00000281
		64	5320	5,319.91016	0.00001689
		100	5500	5,499.92505	0.00001363
		116	5580	5,579.94019	0.00001072
		140	5700	5,699.94019	0.00001049
		149	5745	5,744.85010	0.00002609
		157	5785	5,785.01514	-0.00000262
		165	5825	5,824.95508	0.00000771

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Operation Mode	802.11 n_HT40	Test Date	2016.08.09
Temperature	:17 °C	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.63V	38	5190	5,189.72485	0.00005301
		46	5230	5,229.92505	0.00001433
		54	5270	5,270.00000	0.00000000
		62	5310	5,310.02515	-0.00000474
		102	5510	5,509.92505	0.00001360
		110	5550	5,549.94995	0.00000902
		134	5670	5,669.80005	0.00003526
		151	5755	5,755.00000	0.00000000
	159	5795	5,795.07495	-0.00001293	
	2.97V	38	5190	5,189.92505	0.00001444
		46	5230	5,229.97485	0.00000481
		54	5270	5,269.97485	0.00000477
		62	5310	5,309.84985	0.00002828
		102	5510	5,510.02490	-0.00000452
		110	5550	5,549.92505	0.00001350
		134	5670	5,669.67505	0.00005731
151		5755	5,754.92505	0.00001302	
159	5795	5,795.02490	-0.00000430		

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25 °C	3.3V	38	5190	5,189.97485	0.00000485
		46	5230	5,229.79981	0.00003828
		54	5270	5,269.77490	0.00004271
		62	5310	5,309.75000	0.00004708
		102	5510	5,510.00000	0.00000000
		110	5550	5,549.97510	0.00000449
		134	5670	5,670.02490	-0.00000439
		151	5755	5,754.59985	0.00006953
		159	5795	5,794.89990	0.00001727
55 °C	3.63V	38	5190	5,189.79981	0.00003857
		46	5230	5,229.89990	0.00001914
		54	5270	5,269.94995	0.00000950
		62	5310	5,309.62500	0.00007062
		102	5510	5,509.87500	0.00002269
		110	5550	5,549.92505	0.00001350
		134	5670	5,670.00000	0.00000000
		151	5755	5,754.89990	0.00001739
		159	5795	5,794.79981	0.00003455
	2.97V	38	5190	5,189.89990	0.00001929
		46	5230	5,229.94995	0.00000957
		54	5270	5,270.02515	-0.00000477
		62	5310	5,309.85010	0.00002823
		102	5510	5,509.97510	0.00000452
		110	5550	5,550.00000	0.00000000
		134	5670	5,669.97485	0.00000443
		151	5755	5,754.69995	0.00005214
		159	5795	5,794.97510	0.00000430

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Operation Mode	802.11 ac_VHT80	Test Date	2016.08.09
Temperature	:17 °C	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10 °C	3.63V	42	5210	5,209.94995	0.00000961
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.95020	0.00000901
		122	5610	5,610.15015	-0.00002676
		155	5775	5,775.15015	-0.00002600
	2.97V	42	5210	5,210.00000	0.00000000
		58	5290	5,290.05005	-0.00000946
		106	5530	5,529.84985	0.00002715
		122	5610	5,609.95020	0.00000888
		155	5775	5,774.60010	0.00006925
25 °C	3.3V	42	5210	5,209.84985	0.00002882
		58	5290	5,289.94995	0.00000946
		106	5530	5,529.95020	0.00000901
		122	5610	5,610.44995	-0.00008021
		155	5775	5,774.85010	0.00002596
55 °C	3.63V	42	5210	5,209.05005	0.00018233
		58	5290	5,289.44995	0.00010398
		106	5530	5,530.20020	-0.00003620
		122	5610	5,610.05005	-0.00000892
		155	5775	5,774.09985	0.00015587
	2.97V	42	5210	5,209.90015	0.00001917
		58	5290	5,289.59985	0.00007564
		106	5530	5,529.29981	0.00012662
		122	5610	5,609.69995	0.00005348
		155	5775	5,774.94995	0.00000867

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## 14. ANTENNA REQUIREMENT

### 14.1 Standard Applicable

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

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

### 14.2 Antenna Connected Construction

A PIFA antenna design is used.

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

*~ End of Report ~*

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