

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

## INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

**Product Name:** Phablet  
**Brand Name:** HP  
**Model No.:** HSTNH-F606V  
**Model Difference:** N/A  
**FCC ID:** B94HHF606V  
**Report No.:** ER/2017/10031  
**Issue Date:** Feb. 10, 2017  
**FCC Rule Part:** §15.407

**Prepared for:** HP Inc.  
 3390 East Harmony Road Fort Collins,  
 Colorado 80528 United States

**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:** HP Inc.  
3390 East Harmony Road Fort Collins, Colorado 80528 United States

**Product Name:** Phablet

**Brand Name:** HP

**Model No.:** HSTNH-F606V

**Model Difference:** N/A

**FCC ID:** B94HHF606V

**File Number:** ER/2017/10031

**Date of Test:** Apr. 20, 2016 ~ May 20, 2016

**Date of EUT Received:** Apr. 20, 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:**

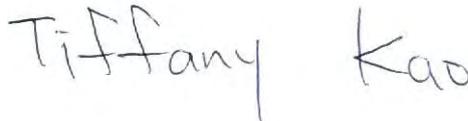


**Date:**

Feb. 10, 2017

*Tin Lin / Engineer*

**Prepared By:**

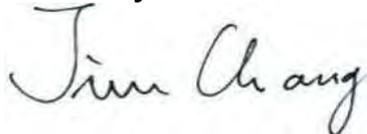


**Date:**

Feb. 10, 2017

*Tiffany Kao / Clerk*

**Approved By:**



**Date:**

Feb. 10, 2017

*Jim Chang / Asst. Manager*

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## Revision History

Report Number	Revision	Description	Issue Date
ER/2017/10031	Rev.00	Initial creation of document	Feb. 10, 2017

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## 1. GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	Phablet	
Brand Name:	HP	
Model No.:	HSTNH-F606V	
Model Difference:	N/A	
Product SW/HW version:	V04 / PV	
Radio SW/HW version:	N/A / PV	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
USB Type-C Cable:	Model No.: 836233-001, Supplier: Luxshare-ICT	
Earphone:	Model No.: EH001, Supplier: 1MORE	
USB-C to VGA:	Model No.: KSC0021, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to HDMI:	Model No.: KSC0012, Supplier: BIZLINK INTERNATIONAL CORP	
USB-C to DP:	Model No.: KSC0044, Supplier: BIZLINK INTERNATIONAL CORP	
Wireless Charger:	Model No.: TPA-M601, Supplier: Merry Electronics Co Ltd	
Docking Station:	Model No.: HSTNH-F601, Supplier: HP Inc.	
Adapters for Docking Station:	<ol style="list-style-type: none"> <li>Model No.: HSTNN-CA40, Supplier: Chicony Power Technology Co., LTd.</li> <li>Model No.: HSTNN-LA40, Supplier: Lite-On Technology Corporation</li> <li>Model No.: HSTNN-DA40, Supplier: DELTA ELECTRONICS INC</li> <li>Model No.: HSTNN-AA44; Supplier: Acbel Polytech Inc.</li> </ol>	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5.3V / 5.25V from AC/DC Adapter	
	Battery:	Model No.: HSTNH-F606-DP, Supplier: DYNAPACK INTERNATIONAL TECHNOLOGY CORP
	Adapter:	<ol style="list-style-type: none"> <li>Model No.: WAD005, Supplier: Acbel Polytech Inc. (10.6W, 5.3V)</li> <li>Model No.: TPN-AA01, Supplier: Acbel Polytech Inc. (15W, 5.25V)</li> </ol>

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	13.99 dBm (Avg.)	OFDM
	5250~5350	4	13.85 dBm (Avg.)	
	5470~5725	12	12.88 dBm (Avg.)	
	5725-5850	5	12.99 dBm	
11n / ac_20M	HT / VHT20 5150~5250	4	HT: 16.93 dBm (Avg.) (Worst Case)	OFDM
	HT / VHT20 5250~5350	4	HT: 16.85 dBm (Avg.) (Worst Case)	
	HT / VHT20 5470~5725	11	HT: 15.72 dBm (Avg.) (Worst Case)	
	HT / VHT20 5725-5850	5	HT: 15.78 dBm (Worst Case)	
11n / ac_40M	HT / VHT40 5150~5250	2	HT: 16.90 dBm (Avg.) (Worst Case)	OFDM
	HT / VHT40 5250~5350	2	HT: 16.96 dBm (Avg.) (Worst Case)	
	HT / VHT40 5470~5725	5	HT: 14.91 dBm (Avg.) (Worst Case)	
	HT / VHT40 5725-5850	2	HT: 14.98 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	15.59 dBm (Avg.)	OFDM
	VHT80 5250~5350	1	15.54 dBm (Avg.)	
	VHT80 5470~5725	2	15.97 dBm (Avg.)	
	VHT80 5725-5850	1	12.63 dBm	

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<p>Antenna Designation</p>	<p>PIFA Antenna,            1. Main            5GHz Gain: 0.49dBi (5150MHz-5250MHz)            5GHz Gain: 0.31dBi (5250MHz-5350MHz)            5GHz Gain: 2.44dBi (5470MHz-5725MHz)            5GHz Gain: 2.15dBi (5725MHz-5850MHz)</p> <p>2. Aux            5GHz Gain: 0.4dBi (5150MHz-5250MHz)            5GHz Gain: 0.33dBi (5250MHz-5350MHz)            5GHz Gain: 2.6dBi (5470MHz-5725MHz)            5GHz Gain: 0.87dBi (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) supports below functions.

Product Feature	
Product Name:	Phablet
Brand Name:	HP
Model No.:	HSTNH-F606V
Model Difference:	N/A
FCC ID:	B94HHF606V
GSM Operating Band(s)	GSM 850/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33
CDMA / EVDO	BC0 / BC1
WCDMA Operating Band(s)	FDD Band II / IV / V
WCDMA Rel. Version	Rel.8
LTE Operating Band(s)	FCC Band 5: Part 22. / FCC Band 2: Part 24. FCC Band 4 / 7 / 12 / 13 / 17 / 30: Part 27.
LTE Rel. Version	Rel.11
Bluetooth Version	V4.1 dual mode + HS
Wi-Fi- Specification	802.11a/b/g/n/ac
NFC Specification	NFC
Wireless Charging	WPC / PMA

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

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### 1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

KDB648474 D03 Wireless Chargers Battery Cover

ANSI C63.10:2013

Note:

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

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803. (TAF code 0513)

FCC Registration Numbers are: 509634

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Radiated Emissions

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

### 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 3.7dB, and 10dB attenuator.

MIMO mode offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} + 10 \log(N_{\text{ANT}}) \text{ dB} = 13.7(\text{dB})$$

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

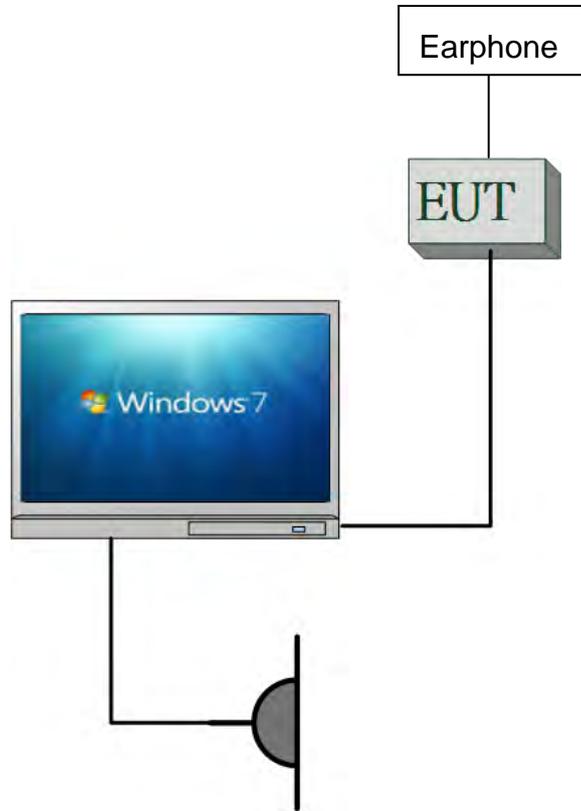
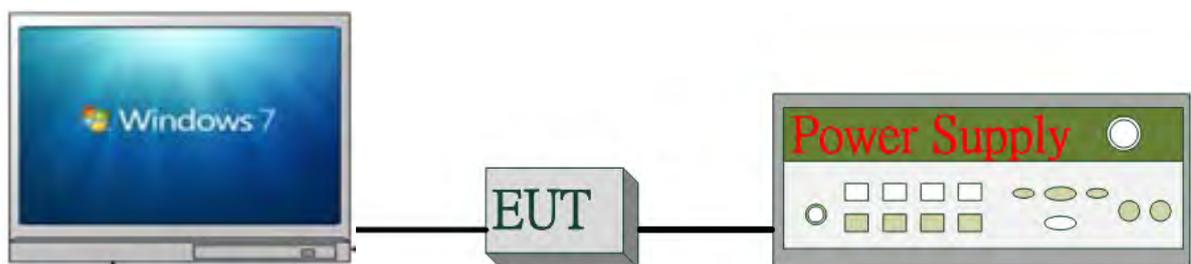


Fig. 2-2 Conducted (Antenna Port) Configuration Emission



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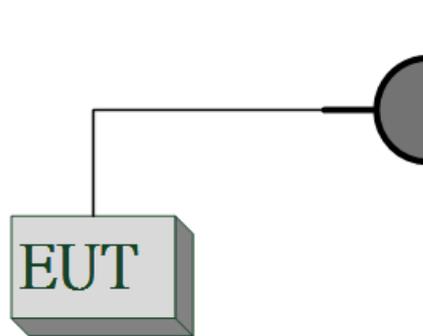
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**Fig. 2-3 AC Power Line Conducted Emission**



**Table 2-1 Equipment Used in Tested System**

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L420	LR-7HXZA	N/A	Un-shielded
3.	DC Power Supply	HP	E3640A	KR93300208	N/A	Un-shielded

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### 3. SUMMARY OF TEST RESULT

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

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## 4. DESCRIPTION OF TEST MODES

### 4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5250 MHz ~5350 MHz:

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY
58	5290 MHz

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Operated band in 5470 MHz ~5725 MHz:

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

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

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

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

2 channels are provided for 802.11ac\_VHT80

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530 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.

**Note:** Additional emissions testing were performed per KDB 648474 D03 and the additional worst case emissions are reported herein and identified as WPC.

Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration. Only worst case emissions are shown in this report.

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**RADIATED EMISSION TEST:**

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS8	MIMO
802.11a	5260~5320	52 to 64	52,60,64	OFDM	1	MAIN
802.11ac_VHT80	5290	58	58	OFDM	MCS8	MIMO
802.11a	5500~5720	100 to 140	100,116,140	OFDM	1	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	1	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	1	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	1	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	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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 E2 position was reported.

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**ANTENNA PORT CONDUCTED MEASUREMENT:**

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	1	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	1	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
802.11a	5500~5700	100 to 140	100,116,140	OFDM	1	MAIN
802.11n_HT20				OFDM	MCS8	MIMO
802.11n_HT40	5510~5670	102 to 134	102,110,134	OFDM	MCS8	MIMO
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS8	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	1	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

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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: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : <b>Horizontal</b> )	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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## 6. CONDUCTED EMISSION TEST

### 6.1. Standard Applicable

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

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

Note

- 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	ESCI7	100760	05/04/2015	05/03/2016
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/15/2015	05/14/2016
LISN	FCC	FCC-LISN-50/250 -25-2-01	4034	03/13/2016	03/12/2017
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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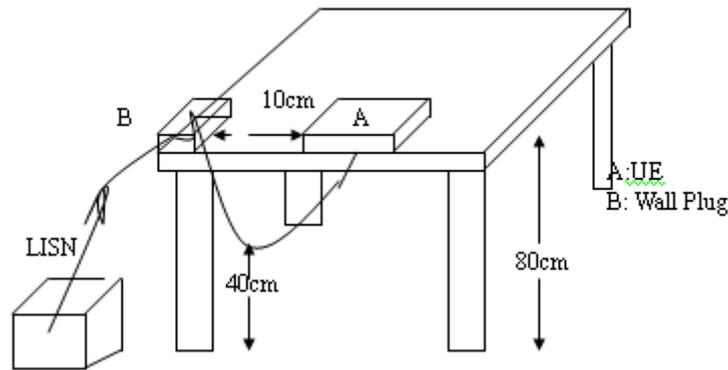
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## 6.4. Test SET-UP



## 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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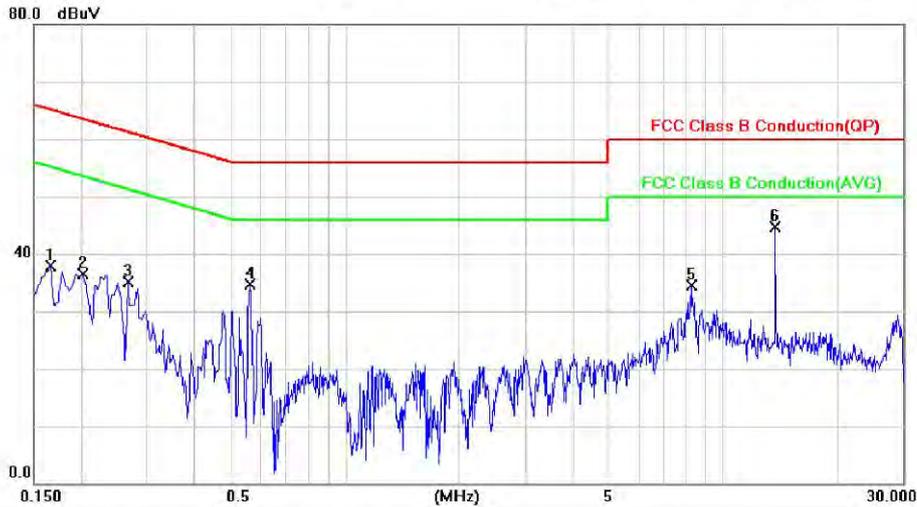
## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Apr. 28, 2016
Temperature:	20 °C	Humidity:	58 %
Adapter:	Model No.: WAD005	Phase:	L1

Site: Conduction Room	Phase: <b>L1</b>	Temperature: 20 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58 %
Mode: Operation		
Note: Adapter: WAD005		

### Conducted Emission

File :40048      Data :#2      Date: 2016/4/28      Time: 下午 09:14:11



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1660	37.84	0.03	37.87	65.16	-27.29	peak	
2		0.2020	36.49	0.03	36.52	63.53	-27.01	peak	
3		0.2660	34.98	0.03	35.01	61.24	-26.23	peak	
4		0.5620	34.66	0.03	34.69	56.00	-21.31	peak	
5		8.2620	34.26	0.27	34.53	60.00	-25.47	peak	
6	*	13.7740	44.46	0.33	44.79	60.00	-15.21	peak	

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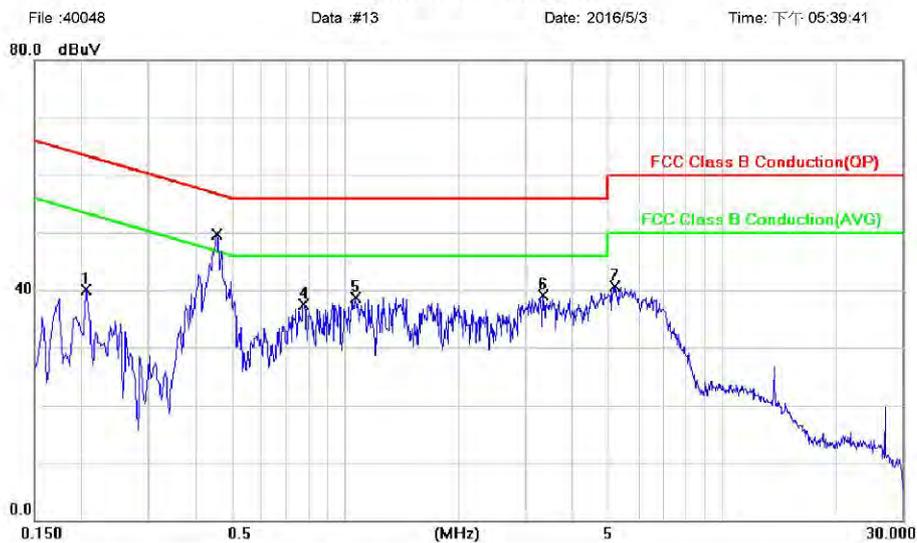


## AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	May 03, 2016
Temperature:	20 °C	Humidity:	58 %
Adapter:	Model No.: TPN-AA01	Phase:	L1

Site: Conduction Room	Phase: <b>L1</b>	Temperature: 20 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 58 %
Mode: Operation		
Note: Adapter: TPN-AA01		

### Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2060	40.16	0.01	40.17	63.37	-23.20	peak	
2		0.4550	47.80	0.01	47.81	56.78	-8.97	QP	
3 *		0.4550	41.20	0.01	41.21	46.78	-5.57	AVG	
4		0.7780	37.52	0.02	37.54	56.00	-18.46	peak	
5		1.0700	38.75	0.02	38.77	56.00	-17.23	peak	
6		3.3540	39.07	0.12	39.19	56.00	-16.81	peak	
7		5.2140	40.45	0.21	40.66	60.00	-19.34	peak	

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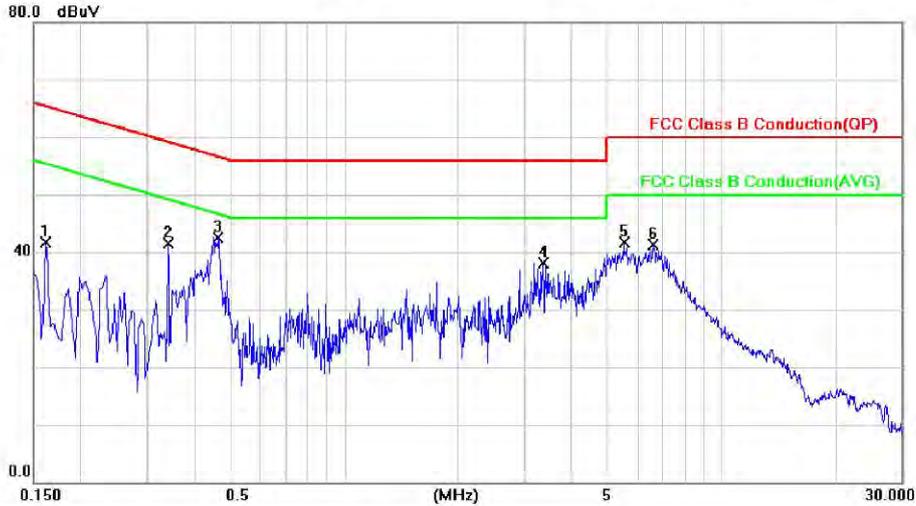
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Site: Conduction Room      Phase: **N**      Temperature: 20 °C  
 Limit: FCC Class B Conduction(QP)      Power: AC 120V/60Hz      Humidity: 58 %  
 Mode: Operation  
 Note: Adapter: TPN-AA01

### Conducted Emission

File :40048      Data :#12      Date: 2016/5/3      Time: 下午 05:38:37



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	41.65	0.03	41.68	65.36	-23.68	peak	
2		0.3420	41.42	0.03	41.45	59.15	-17.70	peak	
3	*	0.4660	42.56	0.03	42.59	56.58	-13.99	peak	
4		3.3700	38.01	0.13	38.14	56.00	-17.86	peak	
5		5.5140	41.45	0.22	41.67	60.00	-18.33	peak	
6		6.6020	40.98	0.24	41.22	60.00	-18.78	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	95.48	0.20
802.11n_20	91.27	0.40
802.11n_40	83.90	0.76
802.11ac_80	73.17	1.36

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9548) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9127) = 0.4$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.839) = 0.76$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.7317) = 1.36$$

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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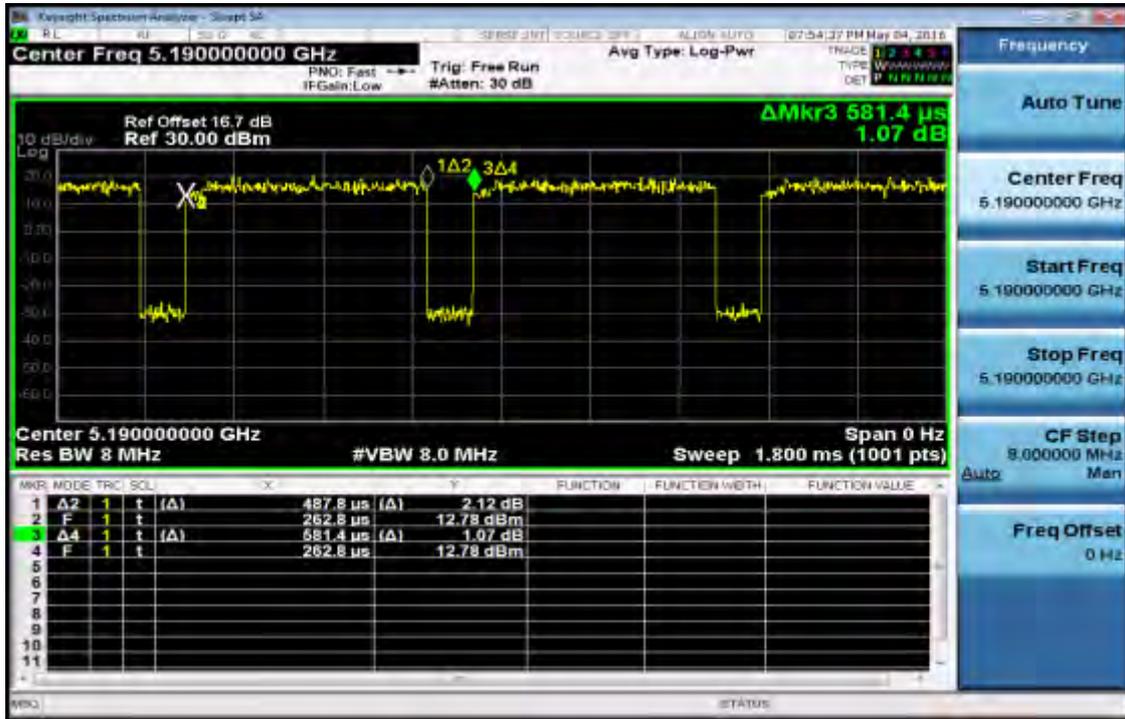
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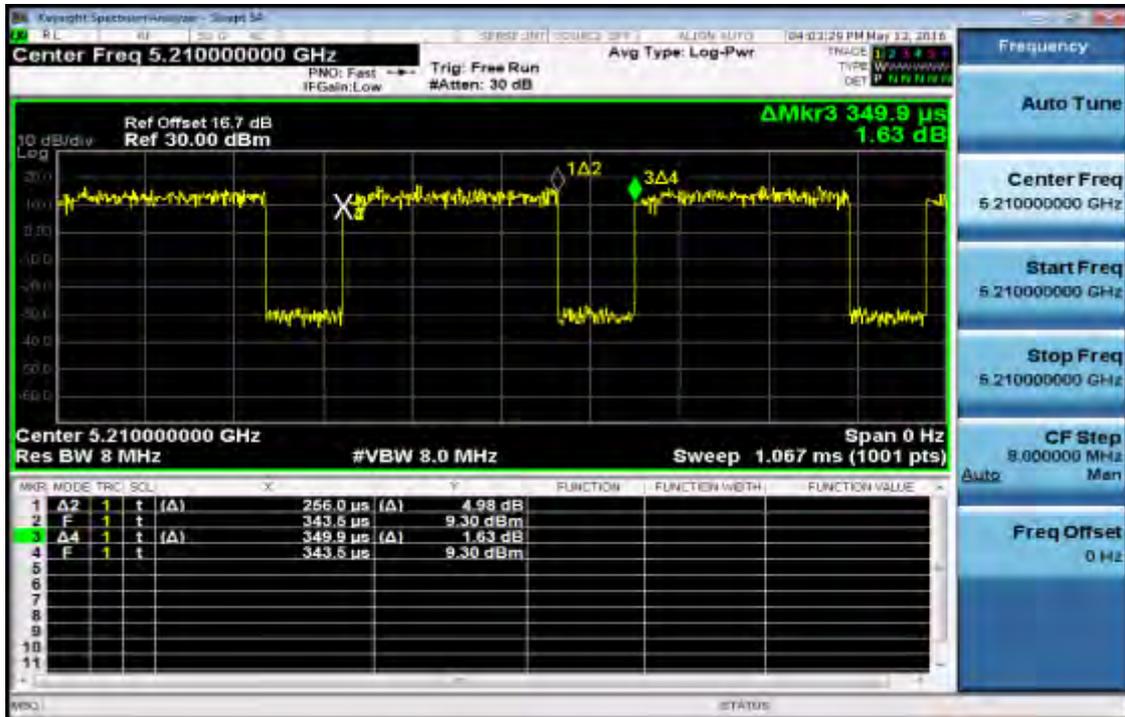
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### 802.11n HT 40



### 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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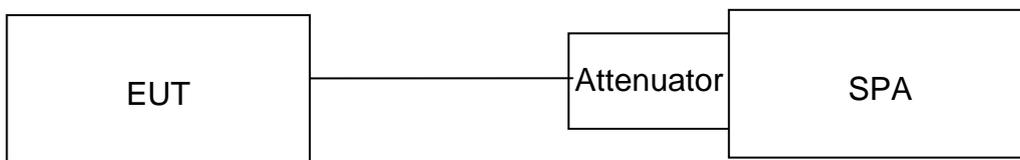
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### 8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	05/17/2015	05/16/2016

### 8.4 Test Set-up



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## 8.5 Measurement Result 26dB Bandwidth

### 802.11a\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.05	12.799
5220	19.18	12.828
5240	18.64	12.705
5260	19.31	12.857
5300	18.74	12.727
5320	19.36	12.869
5500	19.16	12.825
5580	18.72	12.722
5700	19.65	12.934

### 802.11n\_HT20\_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.77	12.960
5220	19.85	12.978
5240	19.74	12.954
5260	19.66	12.936
5300	19.78	12.961
5320	19.50	12.900
5500	19.78	12.962
5580	19.73	12.950
5700	19.65	12.934

### 802.11n\_HT20\_Aux1

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	19.54	12.910
5220	19.90	12.987
5240	19.69	12.943
5260	19.62	12.928
5300	19.63	12.929
5320	19.53	12.908
5500	19.85	12.977
5580	19.70	12.944
5700	21.52	13.328

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**802.11n\_HT40\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.51	16.075
5230	39.87	16.007
5270	40.65	16.091
5310	40.09	16.030
5510	40.18	16.040
5550	40.18	16.041
5670	40.20	16.042

**802.11n\_HT40\_Aux1**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	39.90	16.010
5230	40.05	16.026
5270	39.76	15.994
5310	39.59	15.976
5510	39.23	15.936
5550	40.39	16.062
5670	40.85	16.112

**802.11ac\_VHT80\_Main**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	94.02	19.732
5290	91.95	19.635
5530	96.23	19.833
5610	93.08	19.689

**802.11ac\_VHT80\_Aux1**

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5210	92.42	19.658
5290	93.88	19.725
5530	95.21	19.787
5610	99.54	19.980

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**6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC**
**802.11a\_Main**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.44	11.887
5785	15.17	11.810
5825	14.83	11.710

**802.11n\_HT20\_Main**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.00	11.759
5785	13.94	11.444
5825	15.16	11.807

**802.11n\_HT20\_Aux1**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.73	11.966
5785	15.34	11.859
5825	15.12	11.797

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**802.11n\_HT40\_Main**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.10	15.453
5795	35.13	15.456

**802.11n\_HT40\_Aux1**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	35.06	15.448
5795	33.85	15.295

**802.11ac\_VHT80\_Main**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	75.66	18.789

**802.11ac\_VHT80\_Aux1**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5775	76.02	18.809

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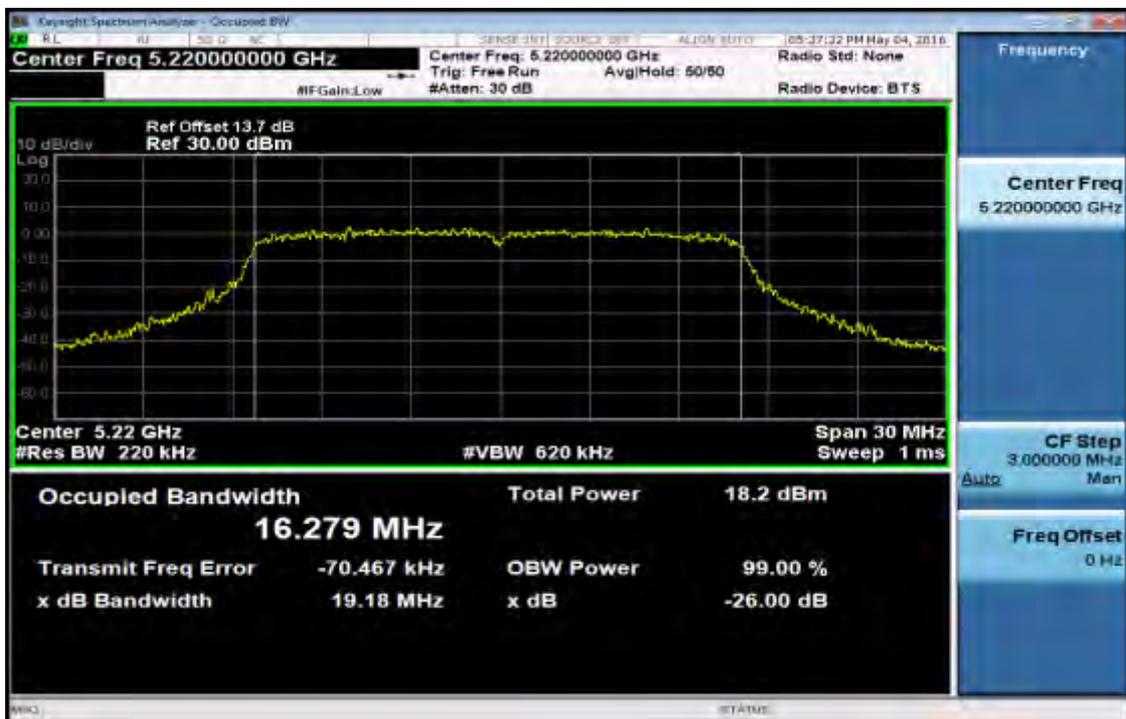
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**802.11a, 5150~5250 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5180MHz)**



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



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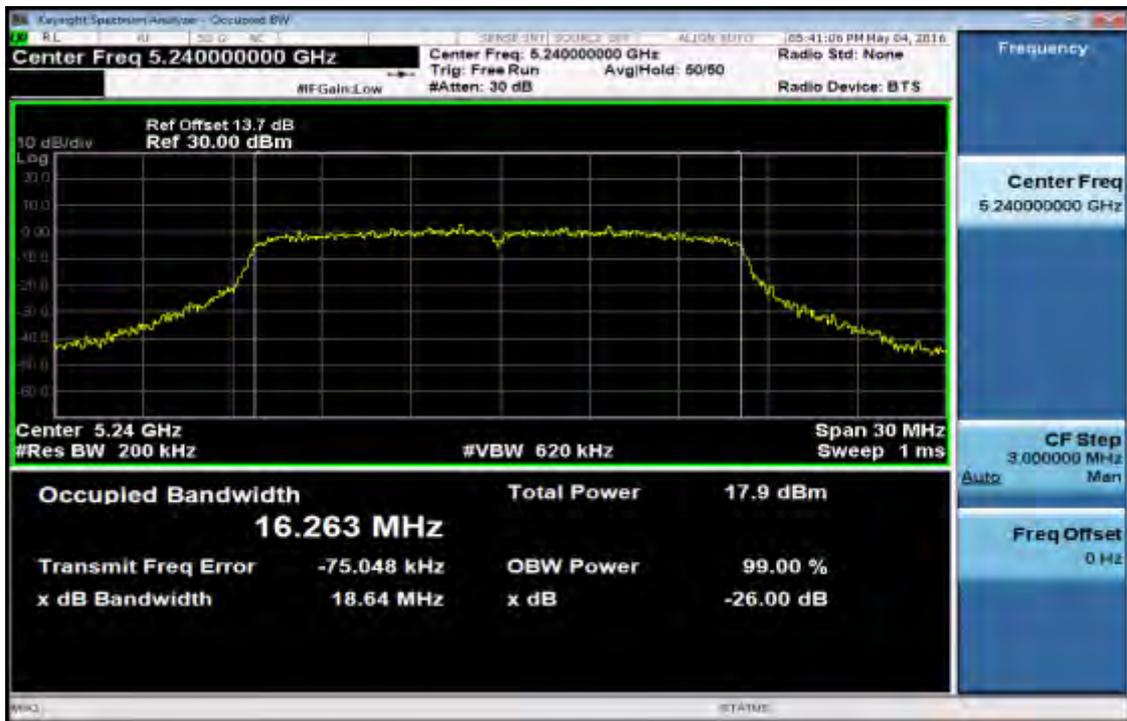
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### 26dB Band Width Test Data CH-High (5240MHz)



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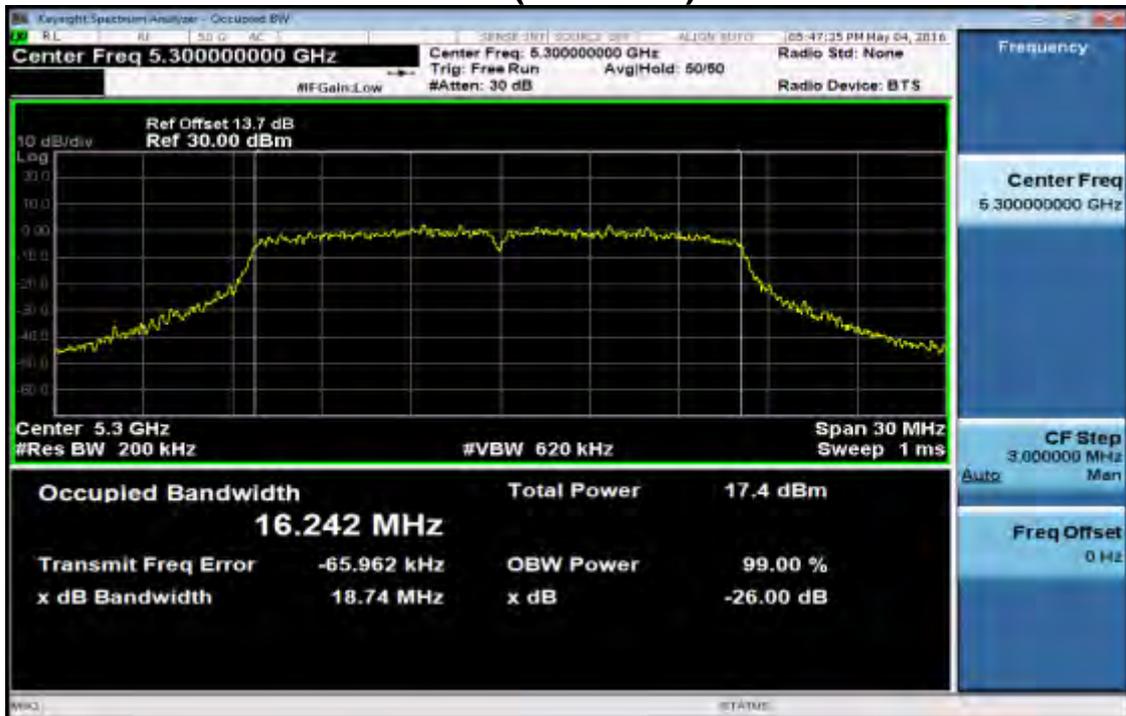
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**802.11a, 5250~5350 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5260MHz)**



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



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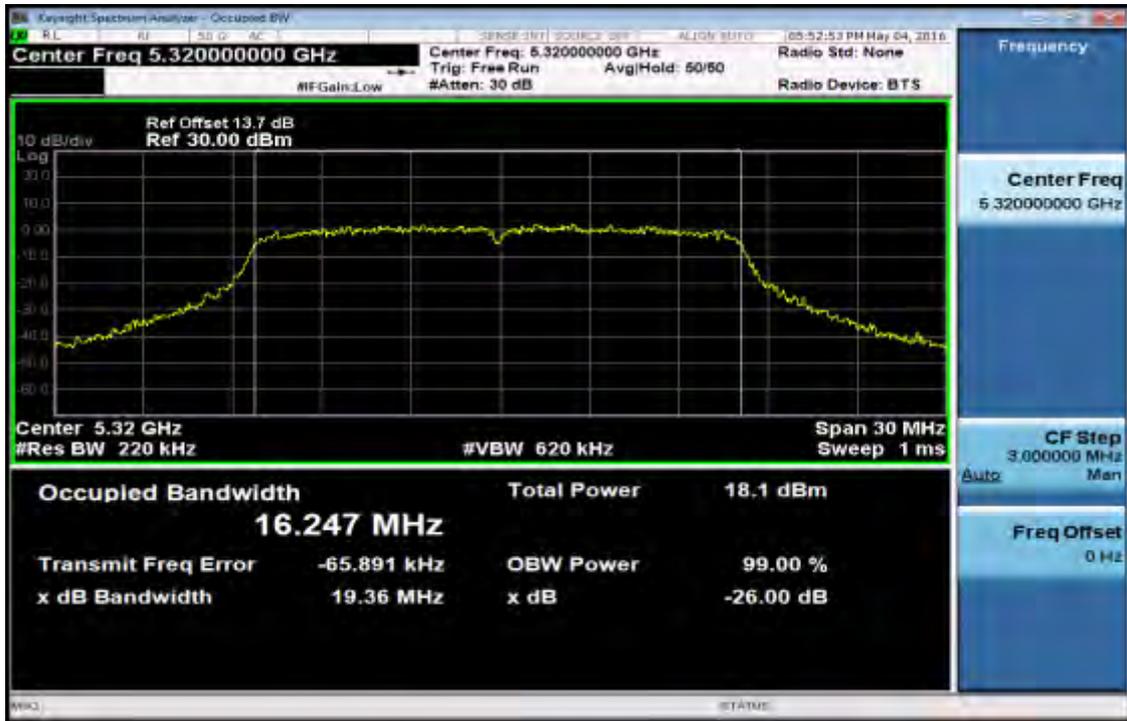
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### 26dB Band Width Test Data CH-High (5320MHz)



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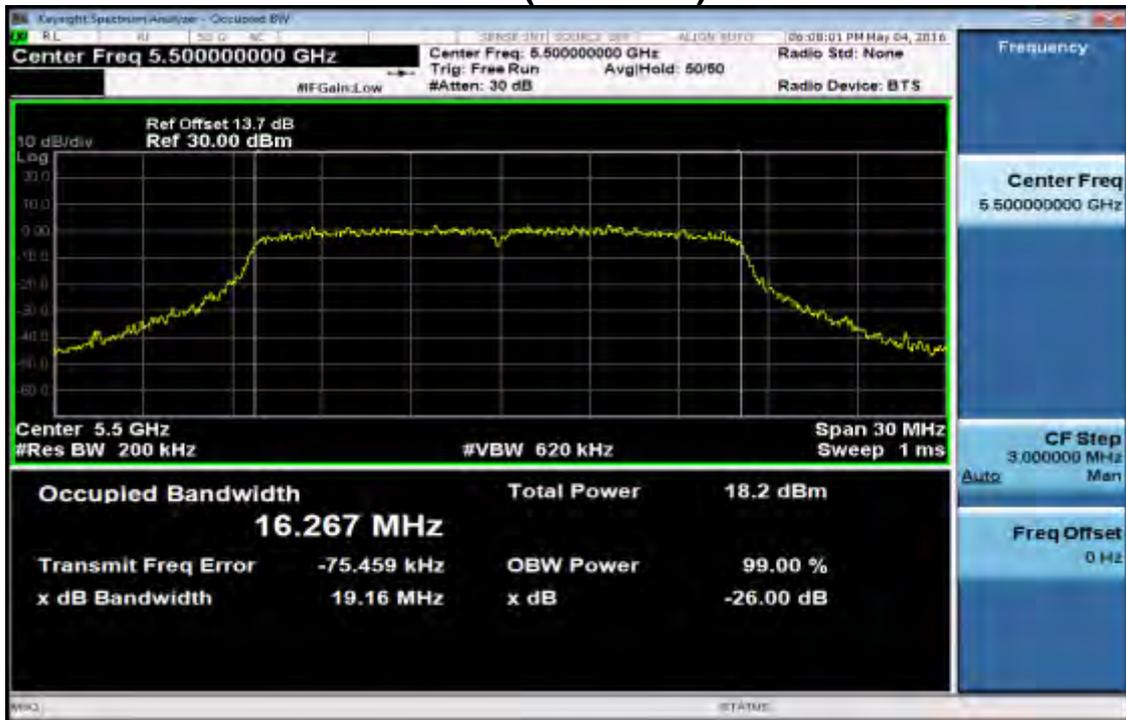
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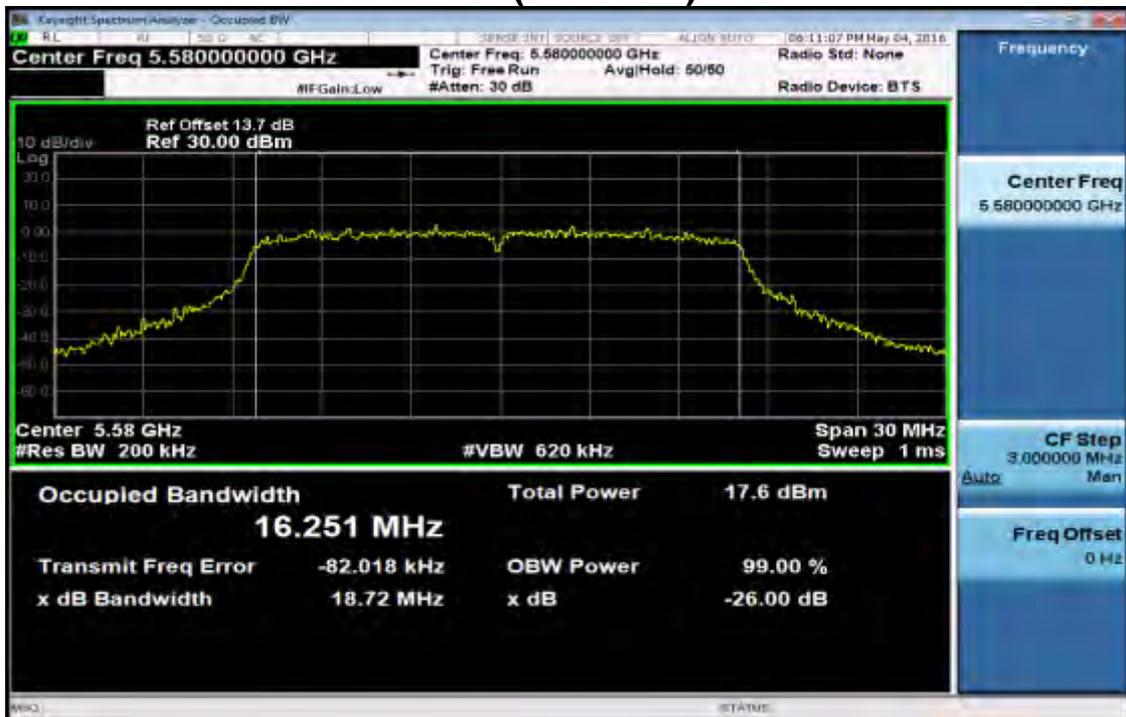
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**802.11a, 5470~5725 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5500MHz)**



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



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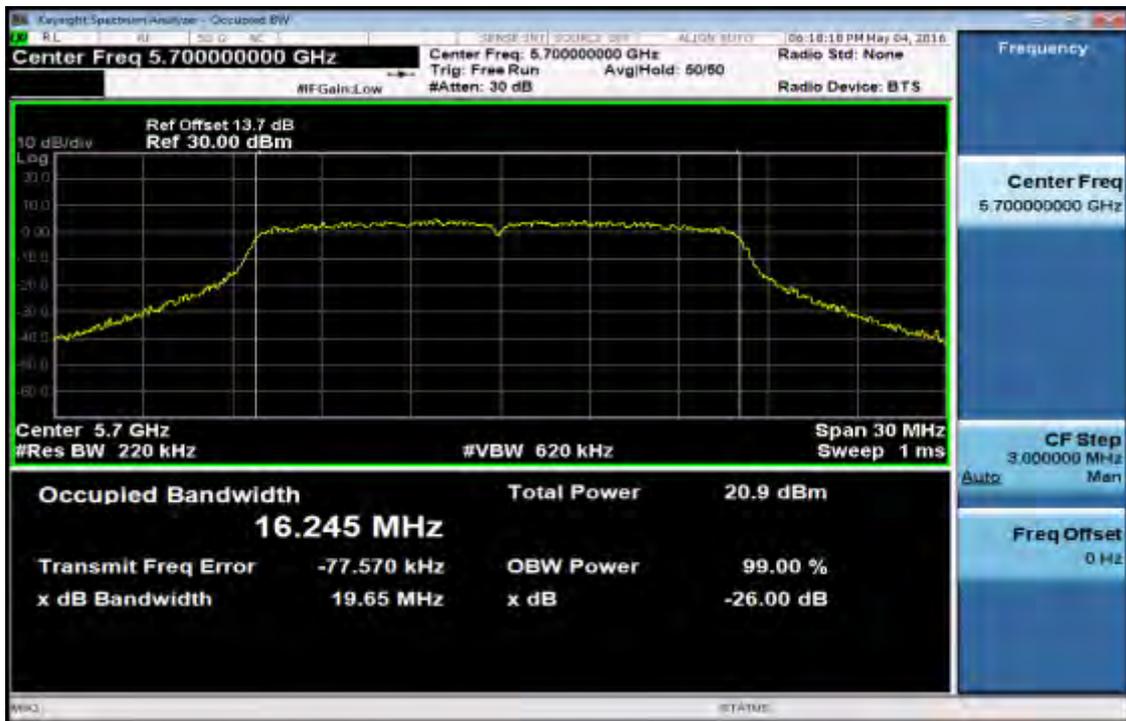
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## 26dB Band Width Test Data CH-High (5700MHz)



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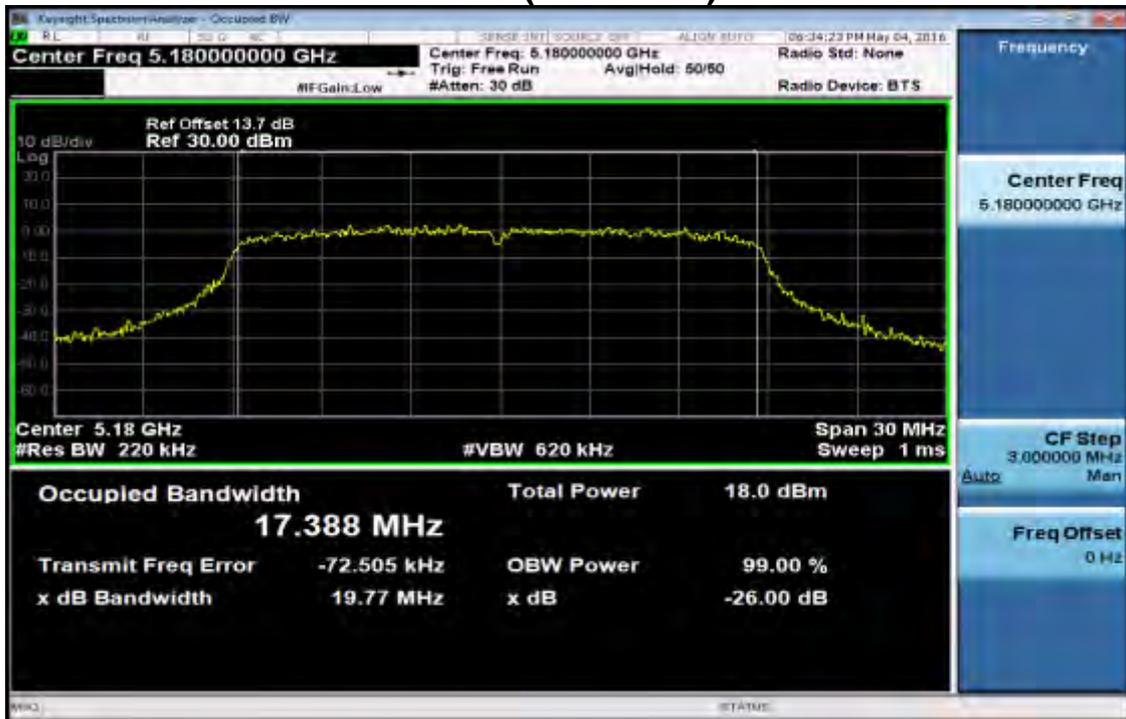
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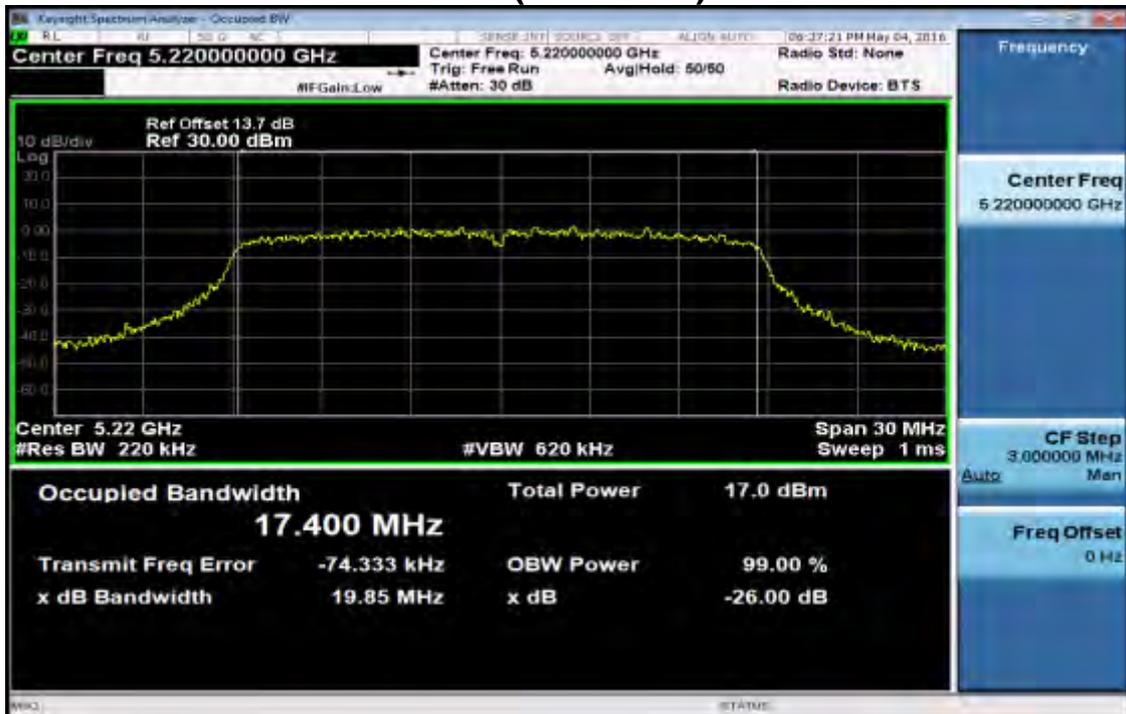
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**802.11n HT20, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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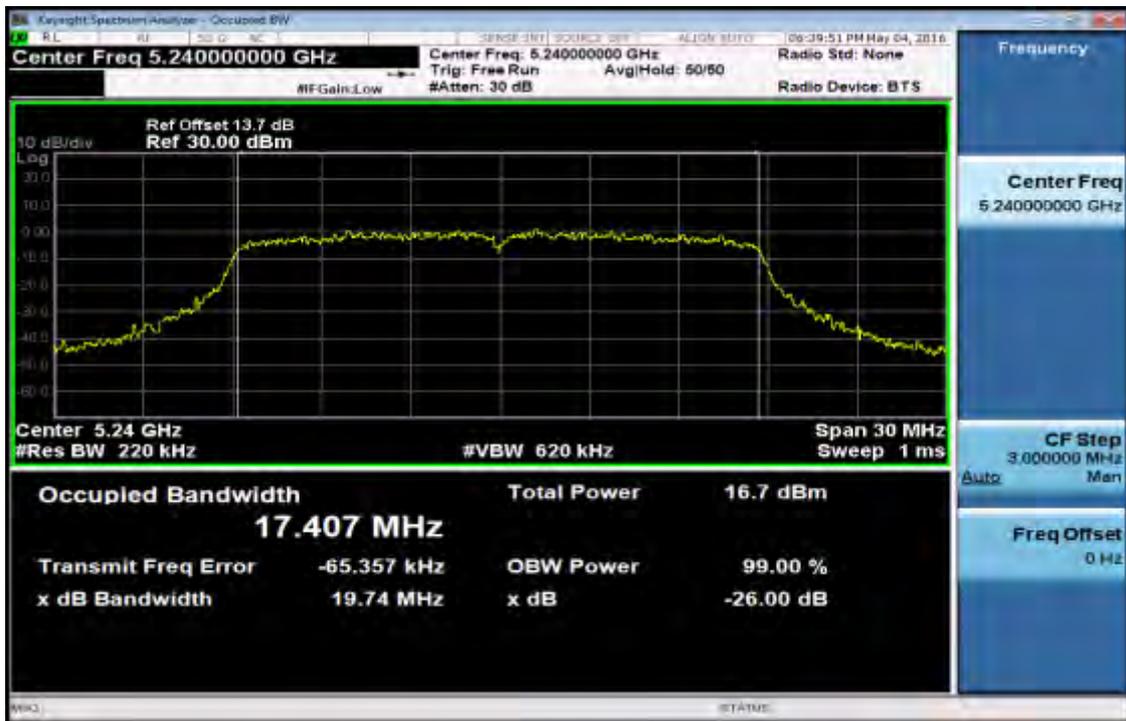
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### 26dB Band Width Test Data CH-High (5240 MHz)



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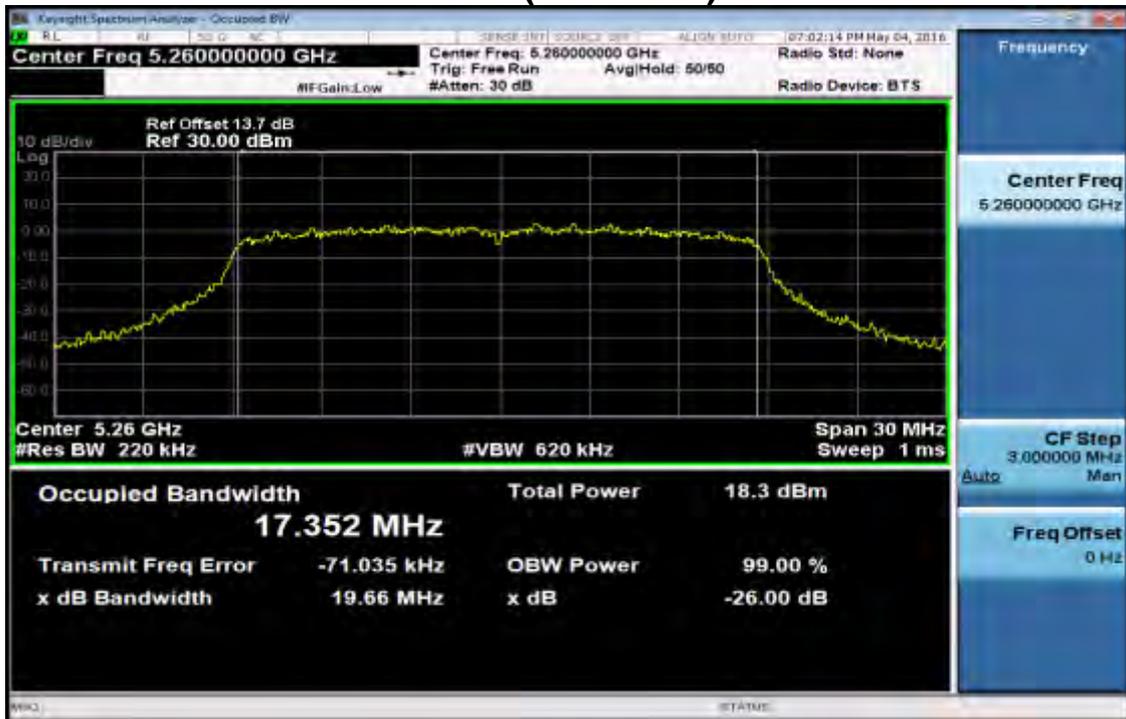
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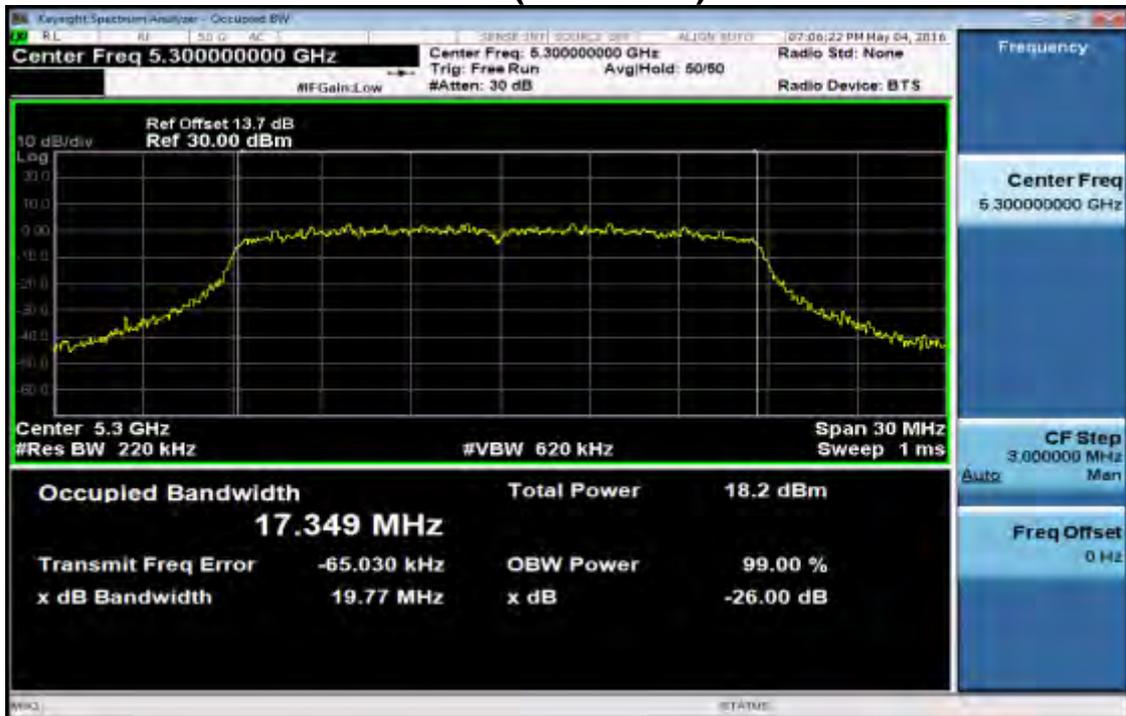
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**802.11n HT20, 5250~5350 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5260 MHz)**



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



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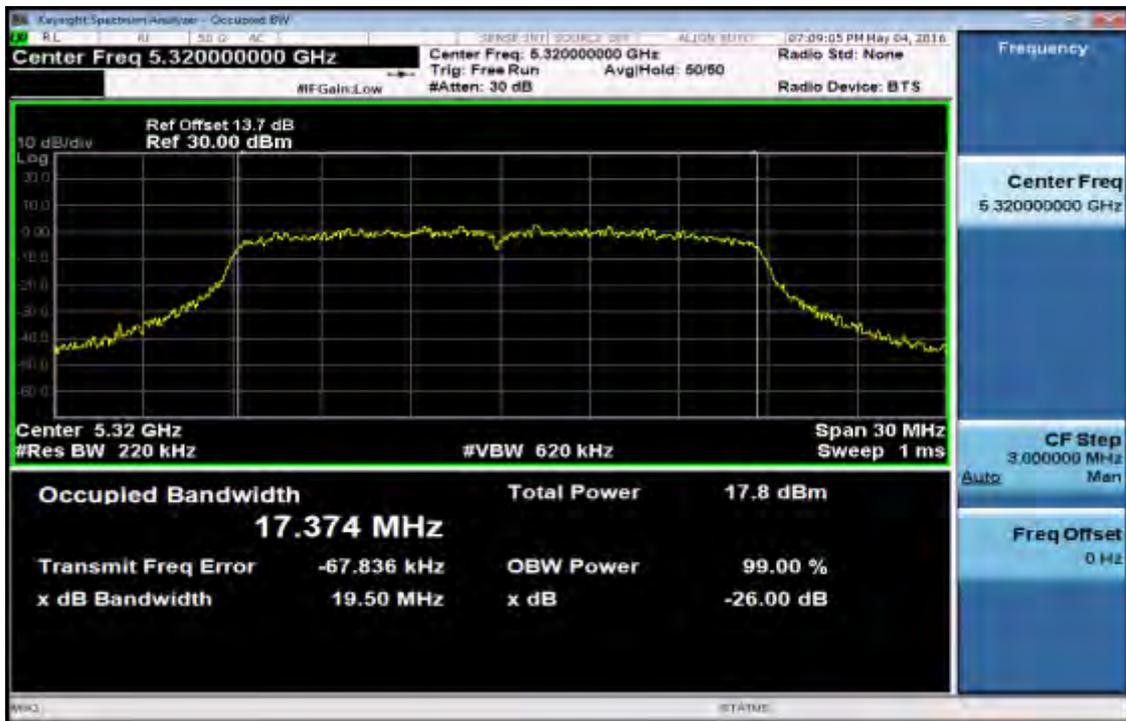
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### 26dB Band Width Test Data CH-High (5320 MHz)



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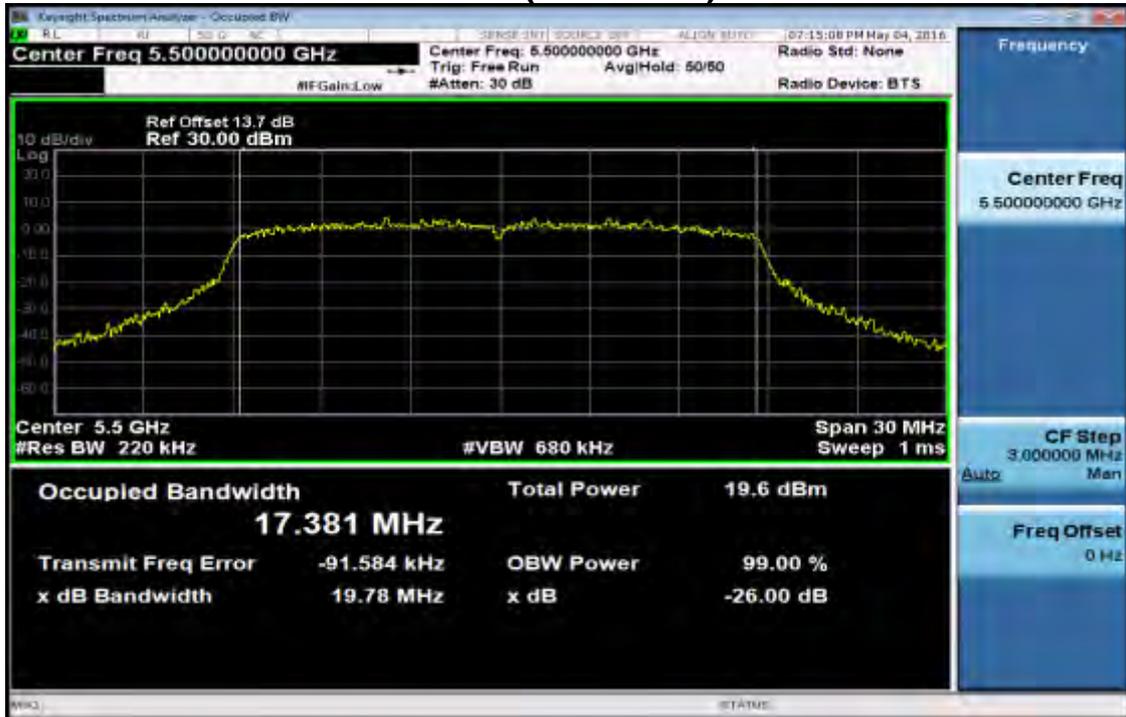
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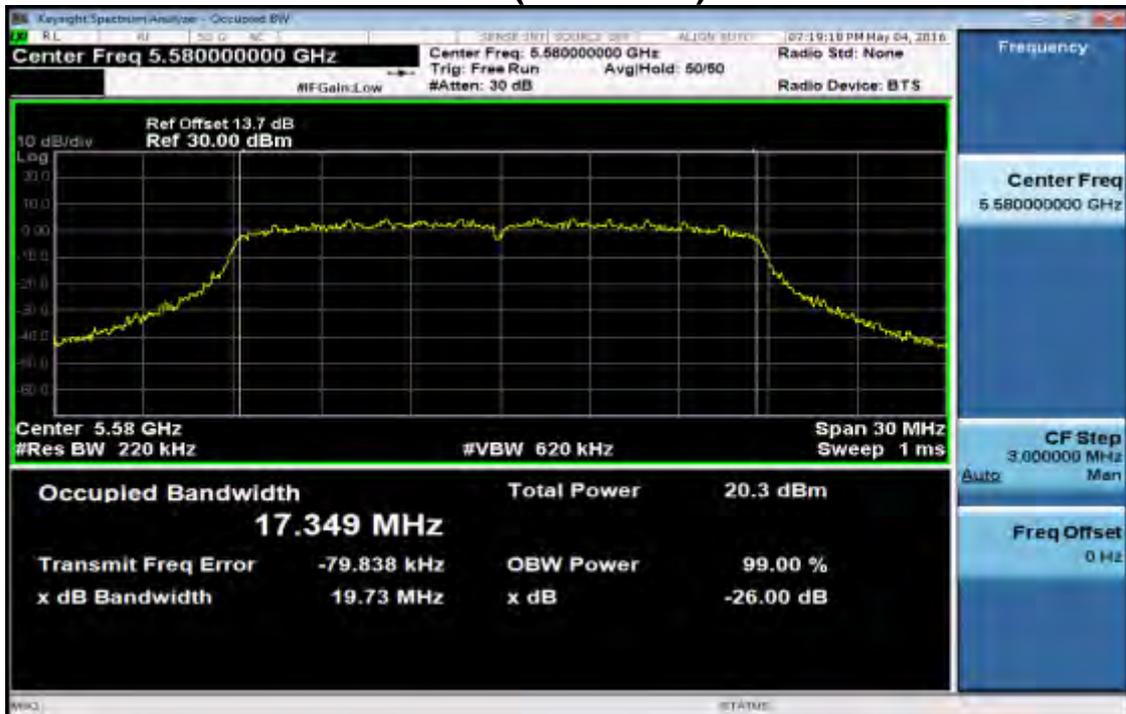
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**802.11n HT20, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5500 MHz)**



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



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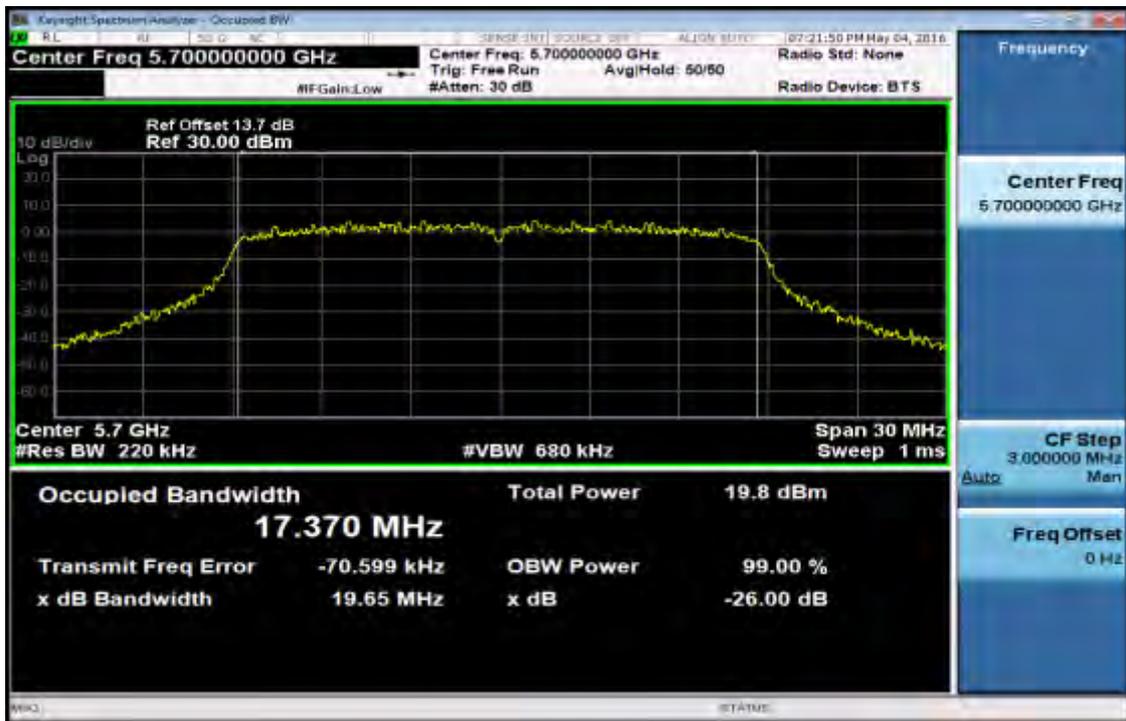
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### 26dB Band Width Test Data CH-High (5700 MHz)



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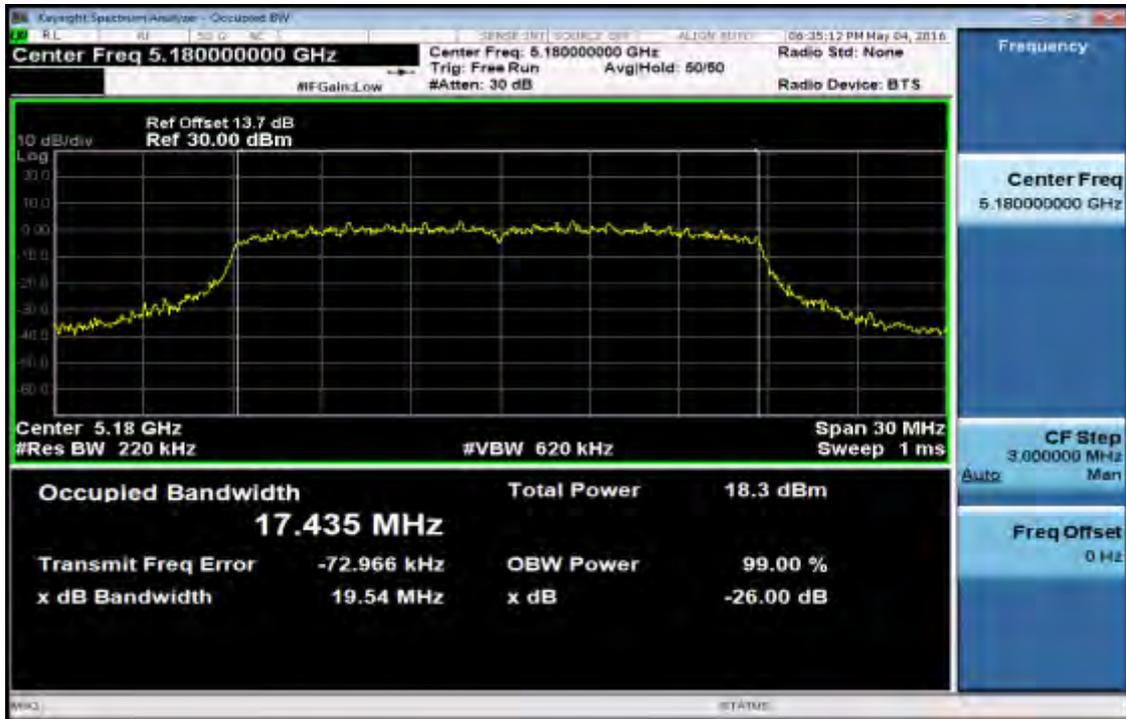
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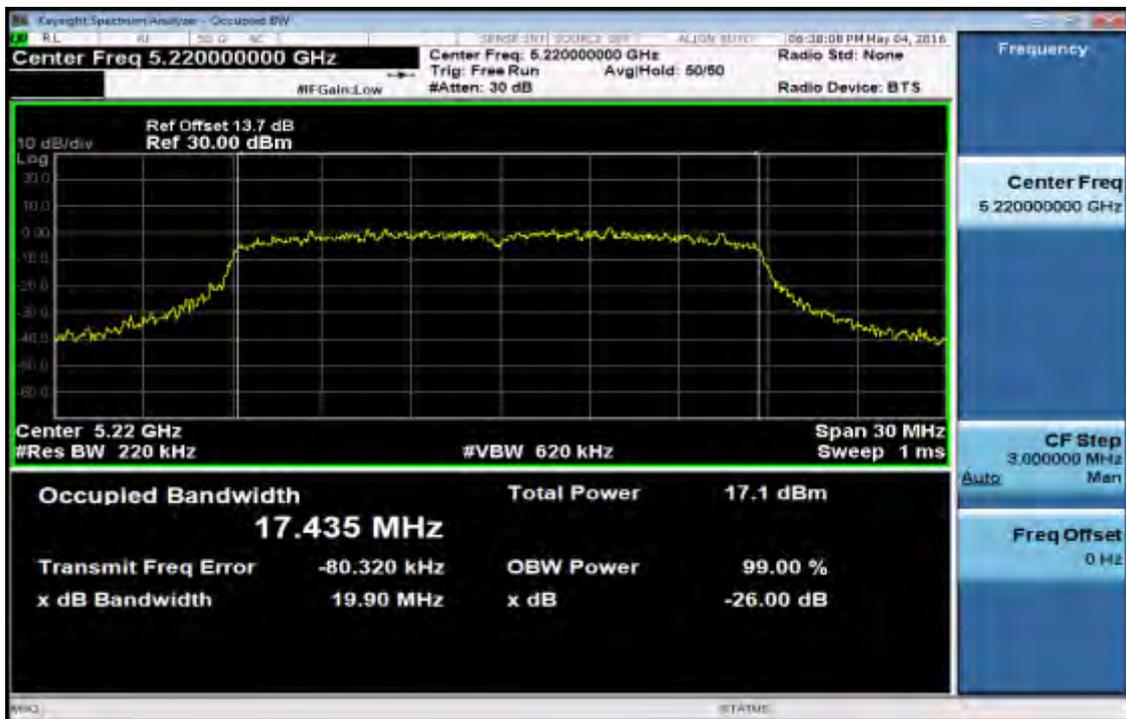
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**802.11n HT20, 5150~5250 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5180 MHz)**



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



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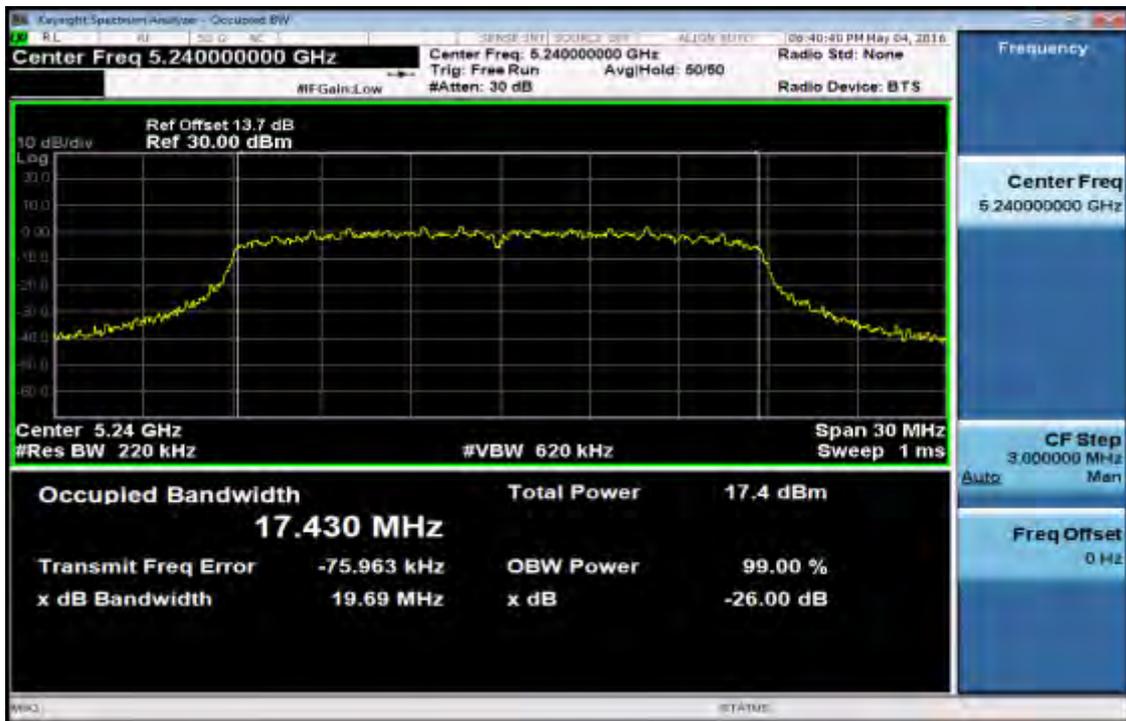
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### 26dB Band Width Test Data CH-High (5240 MHz)



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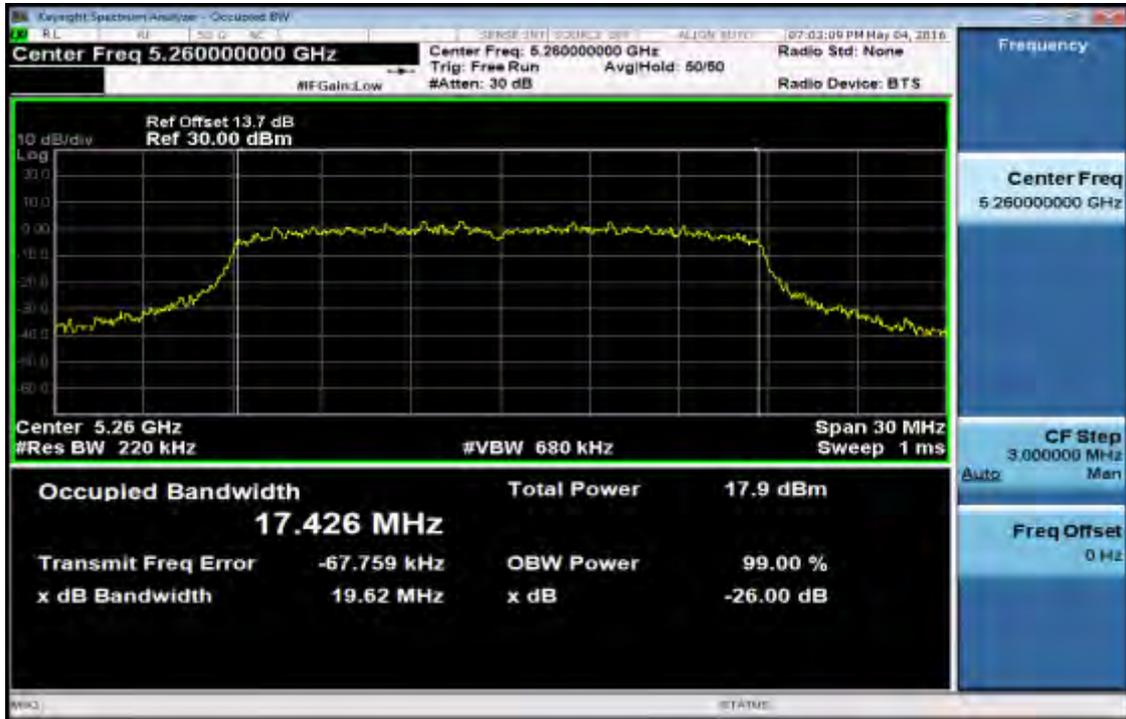
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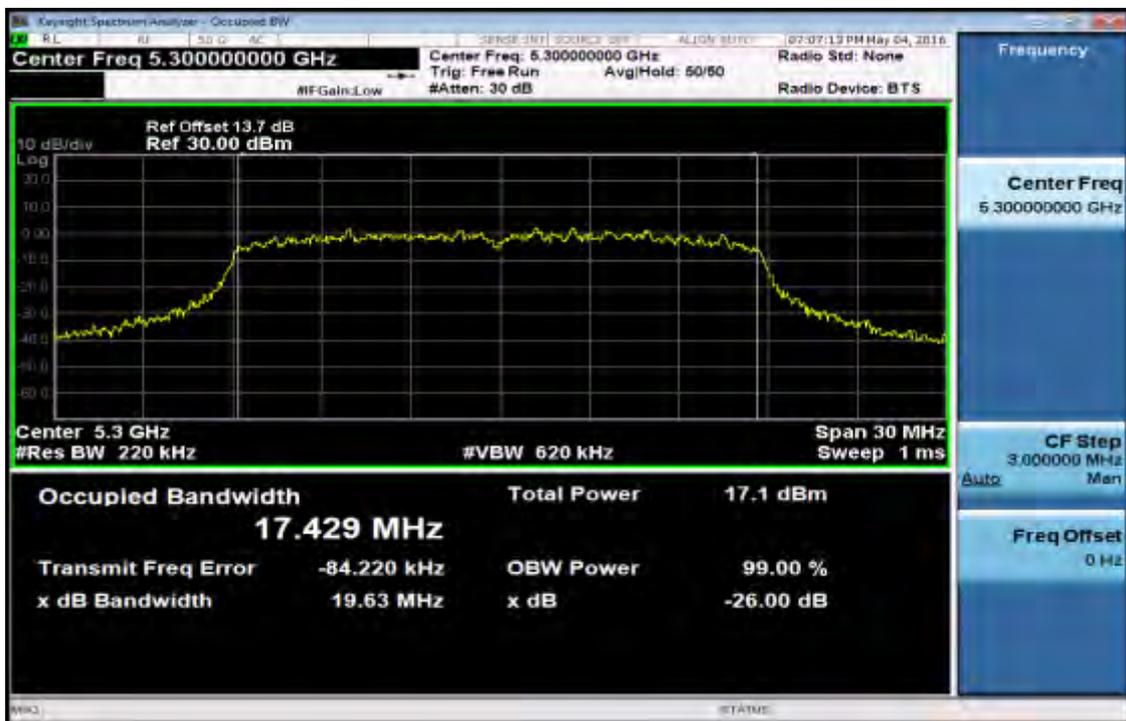
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**802.11n HT20, 5250~5350 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5260 MHz)**



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

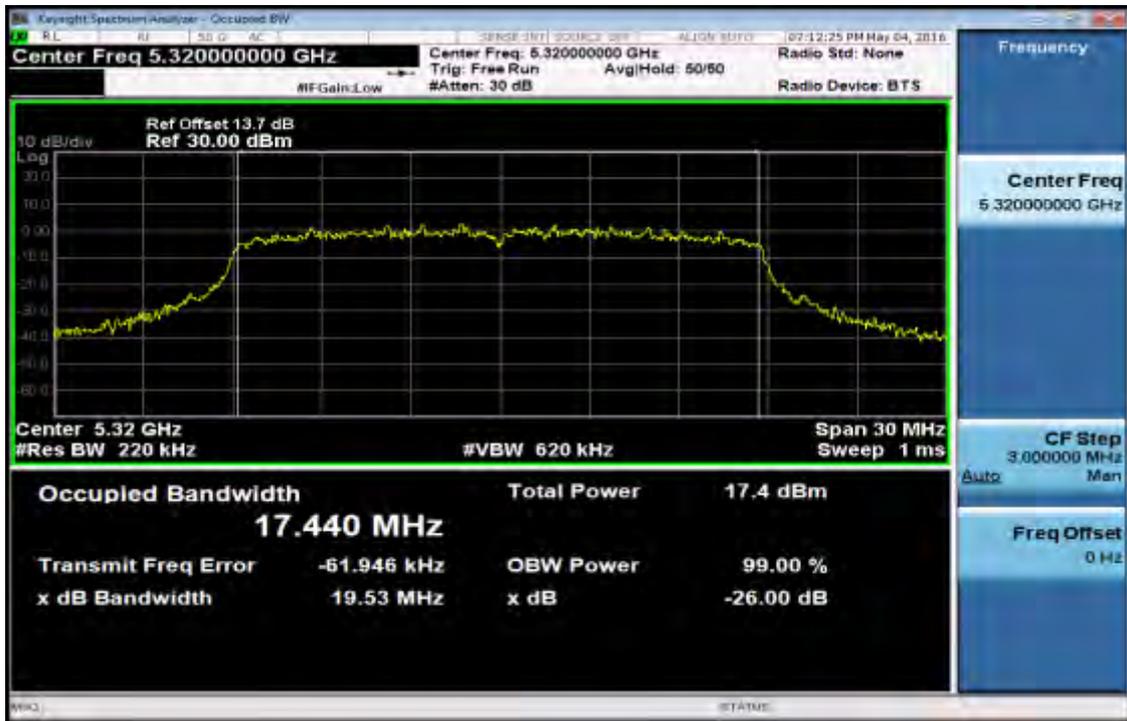


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### 26dB Band Width Test Data CH-High (5320 MHz)



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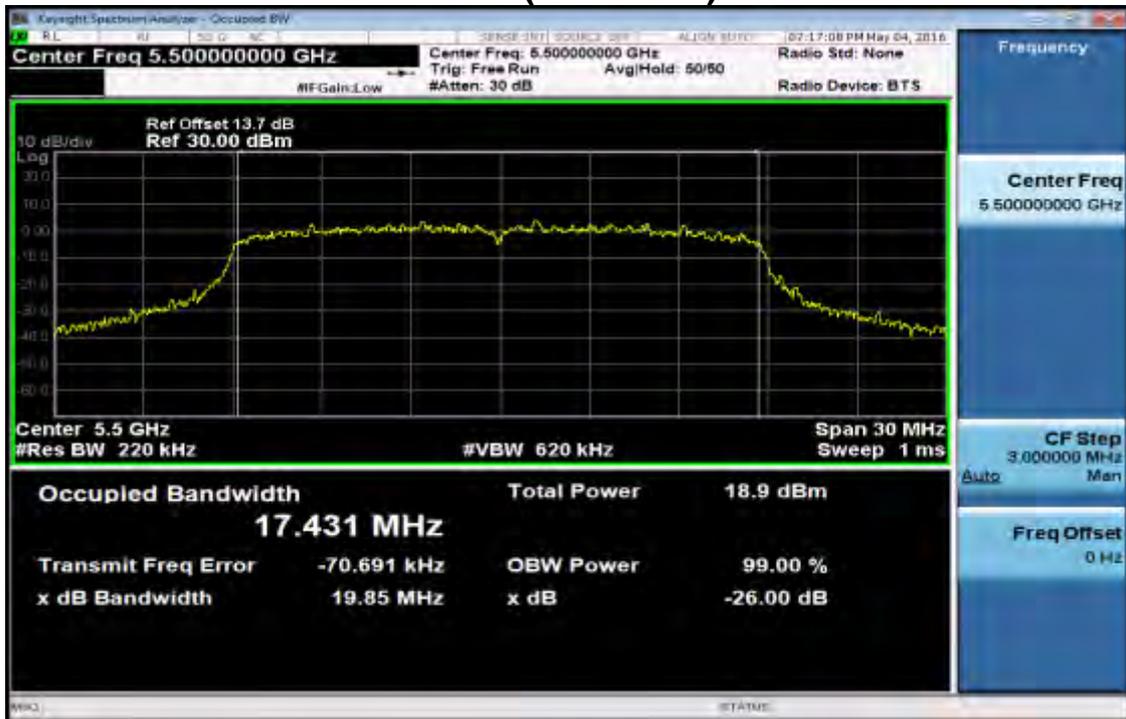
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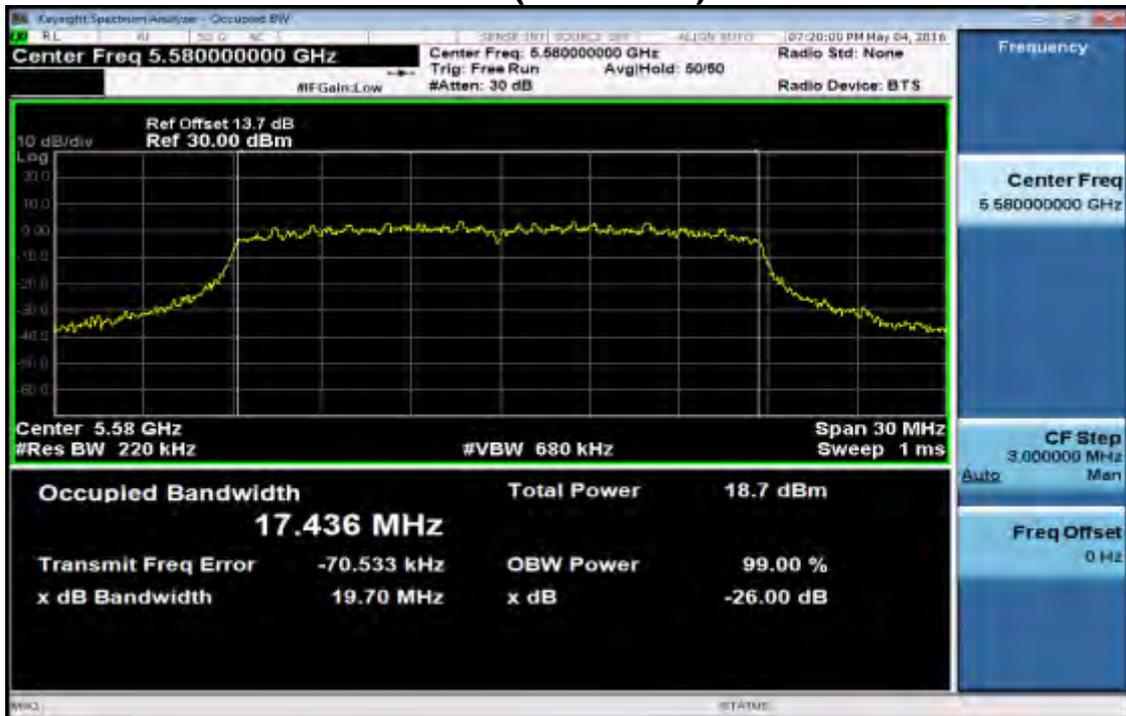
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**802.11n HT20, 5470~5725 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5500 MHz)**



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



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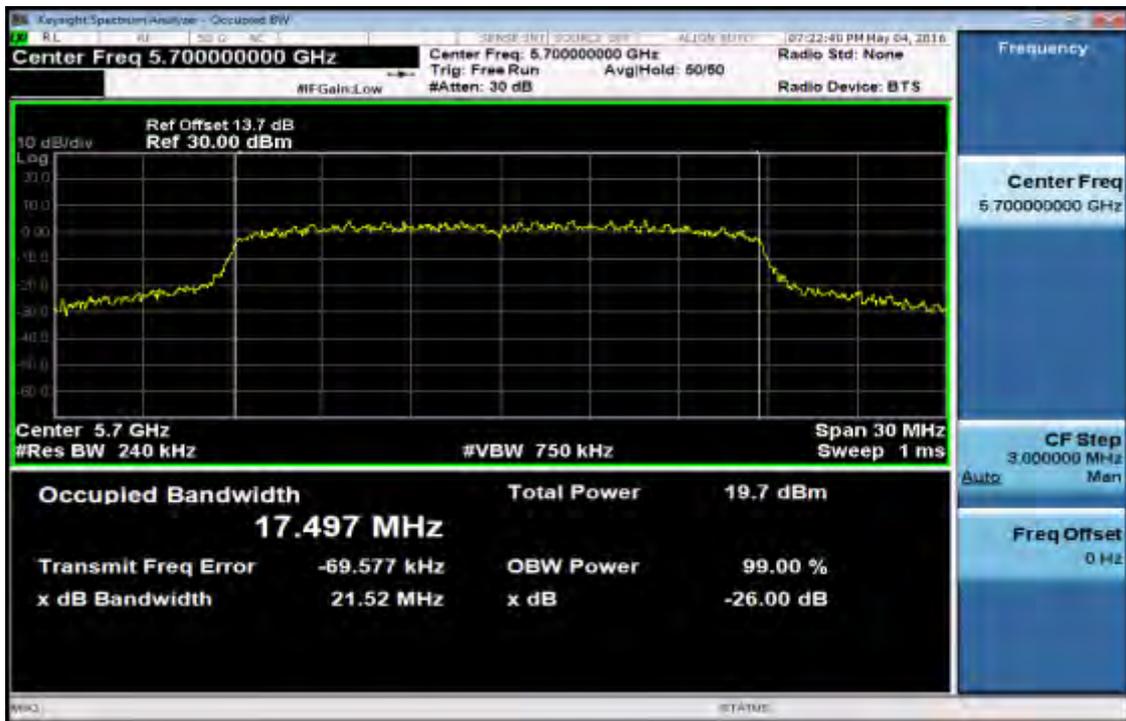
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### 26dB Band Width Test Data CH-High (5700 MHz)



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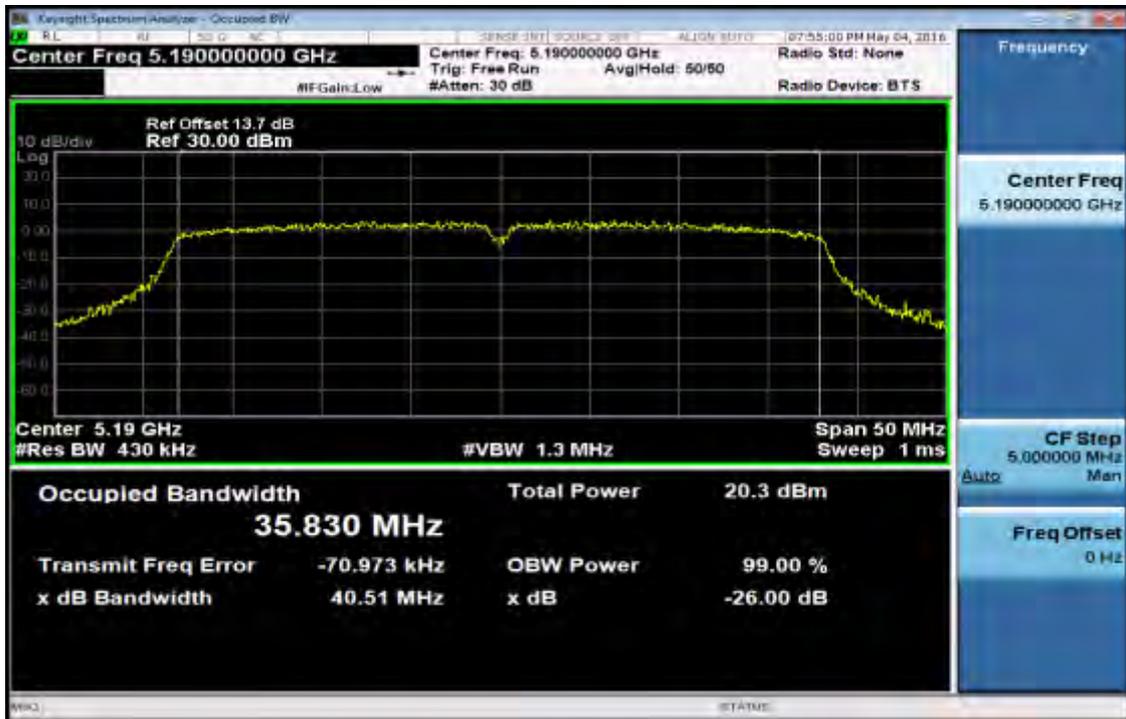
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**802.11n HT40, 5150~5250 MHz (Main)**  
**26dB Band Width Test Data CH-Low (5190 MHz)**



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



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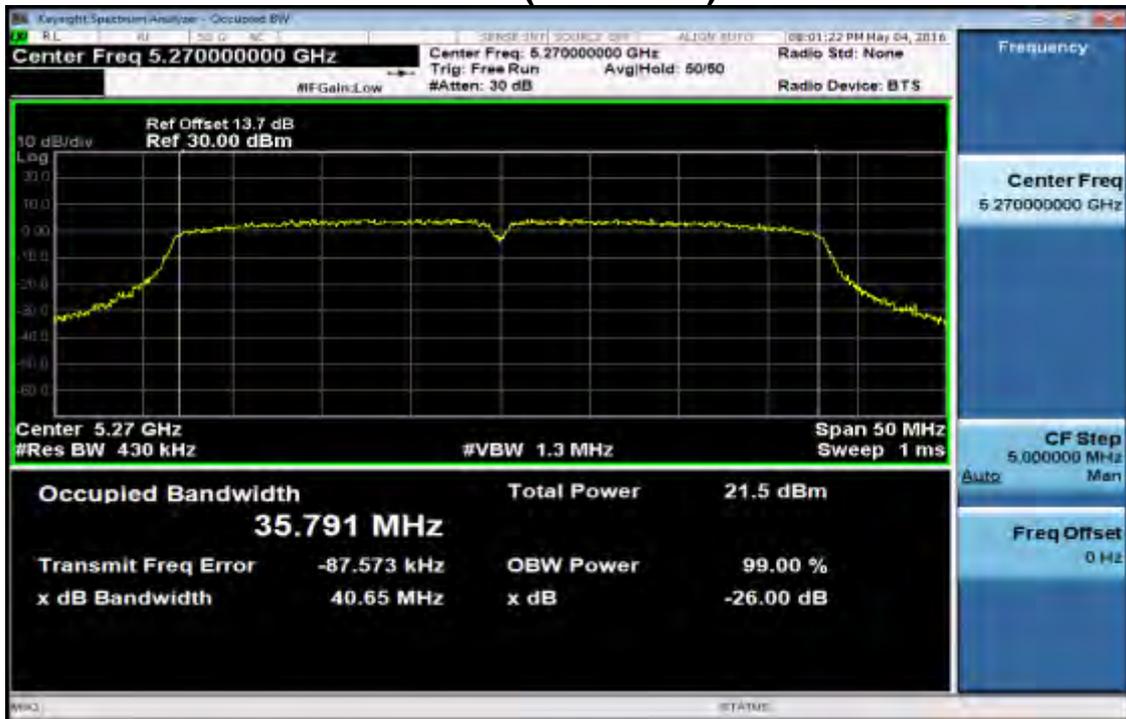
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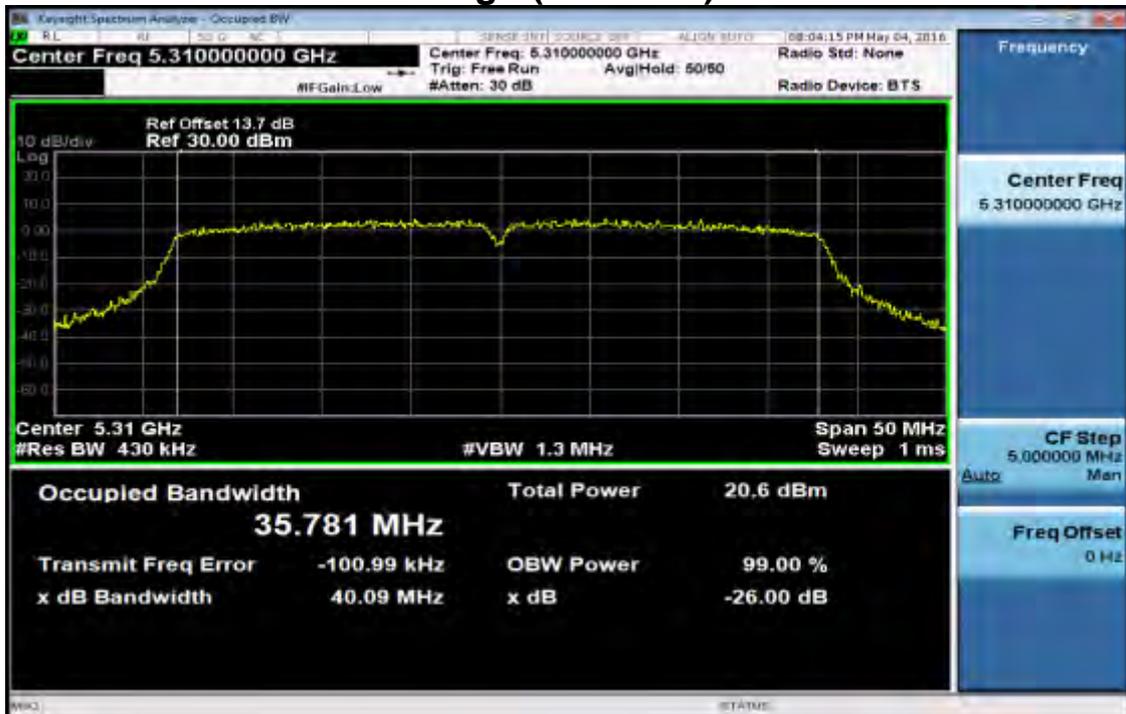
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### 802.11n HT40, 5250~5350 MHz (Main) 26dB Band Width Test Data CH-Low (5270 MHz)



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



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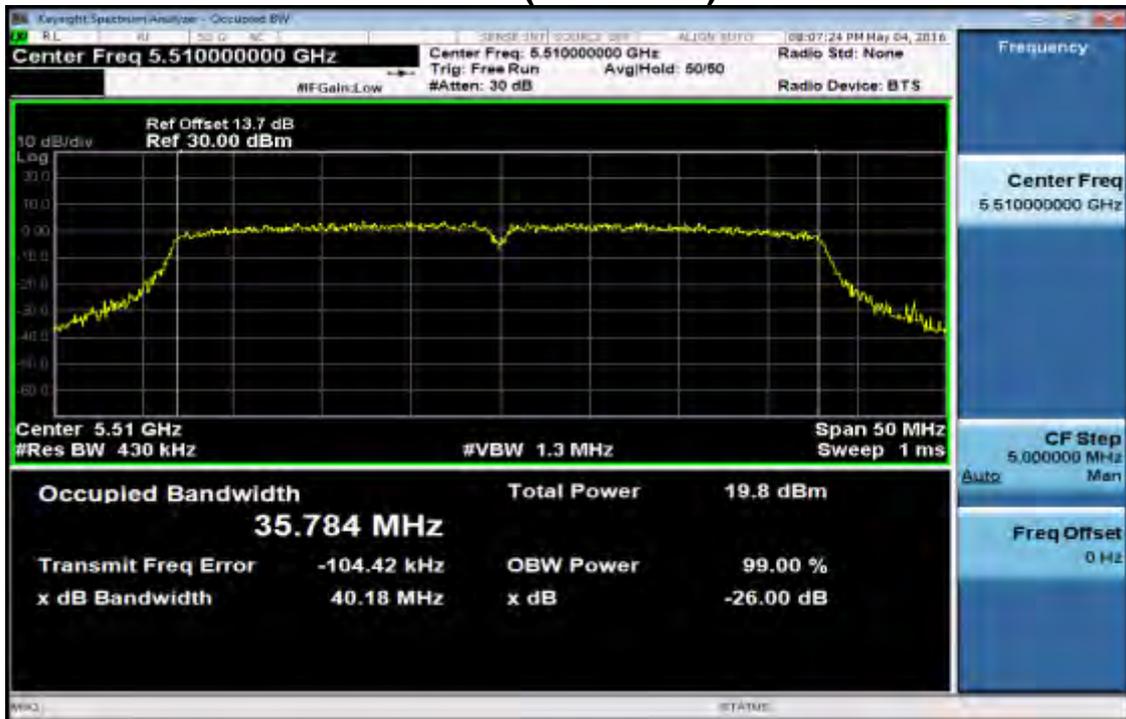
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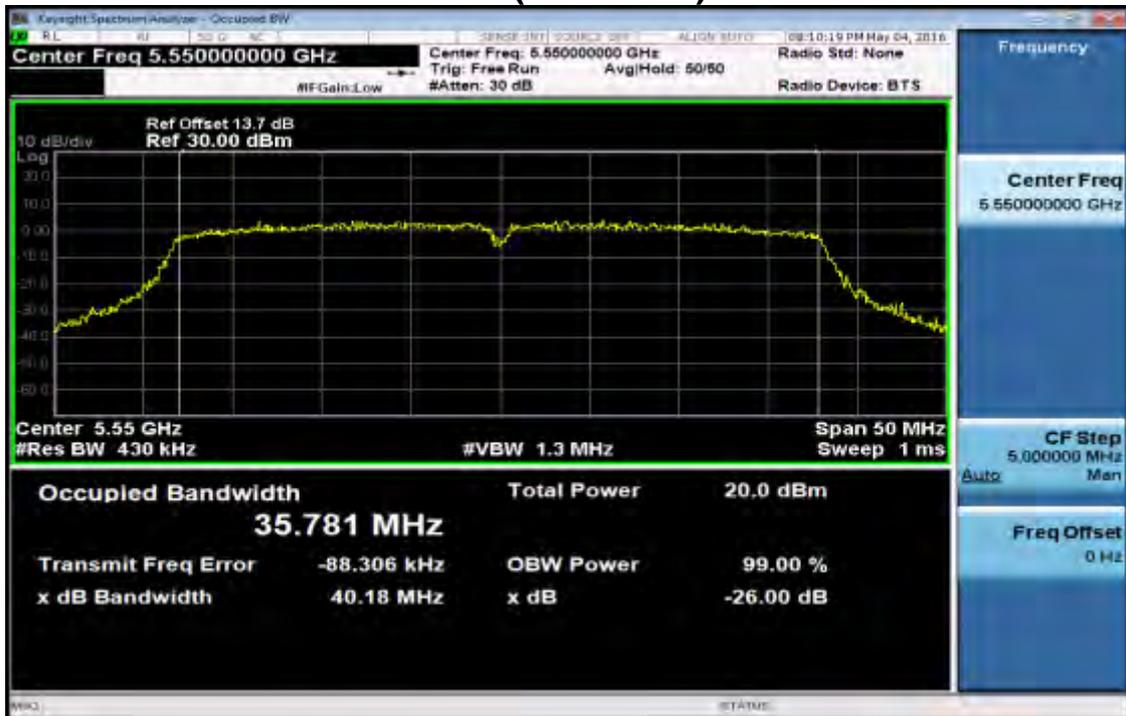
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**802.11n HT40, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5510 MHz)**



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



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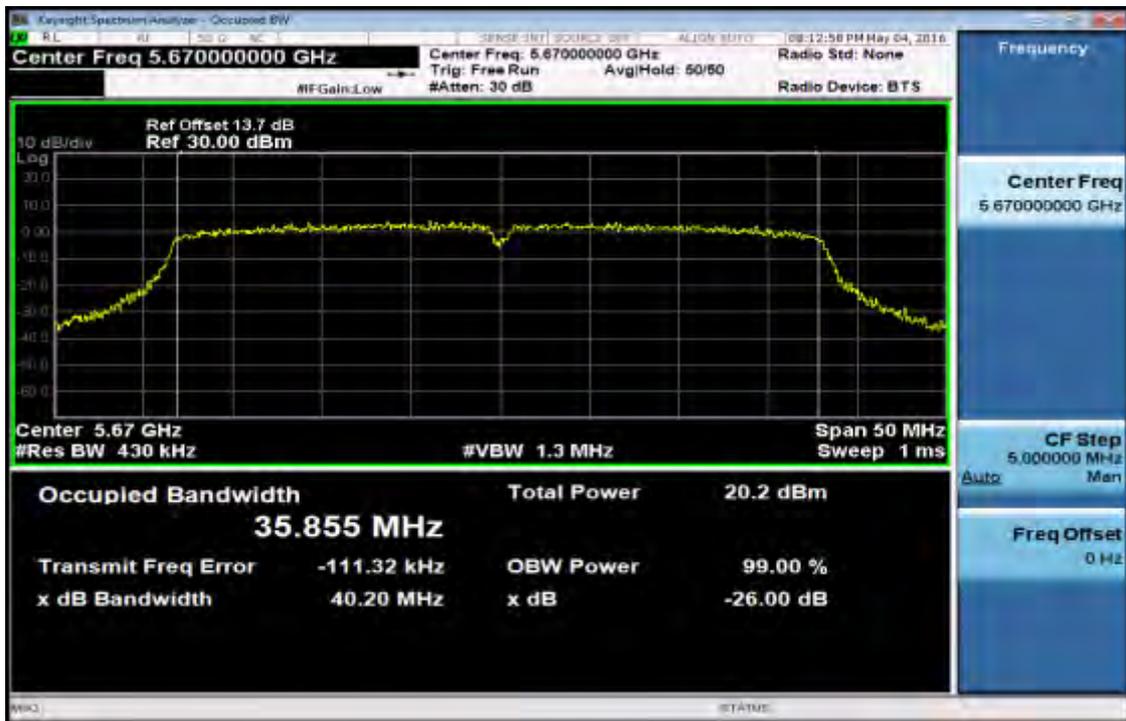
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### 26dB Band Width Test Data CH-High (5670 MHz)



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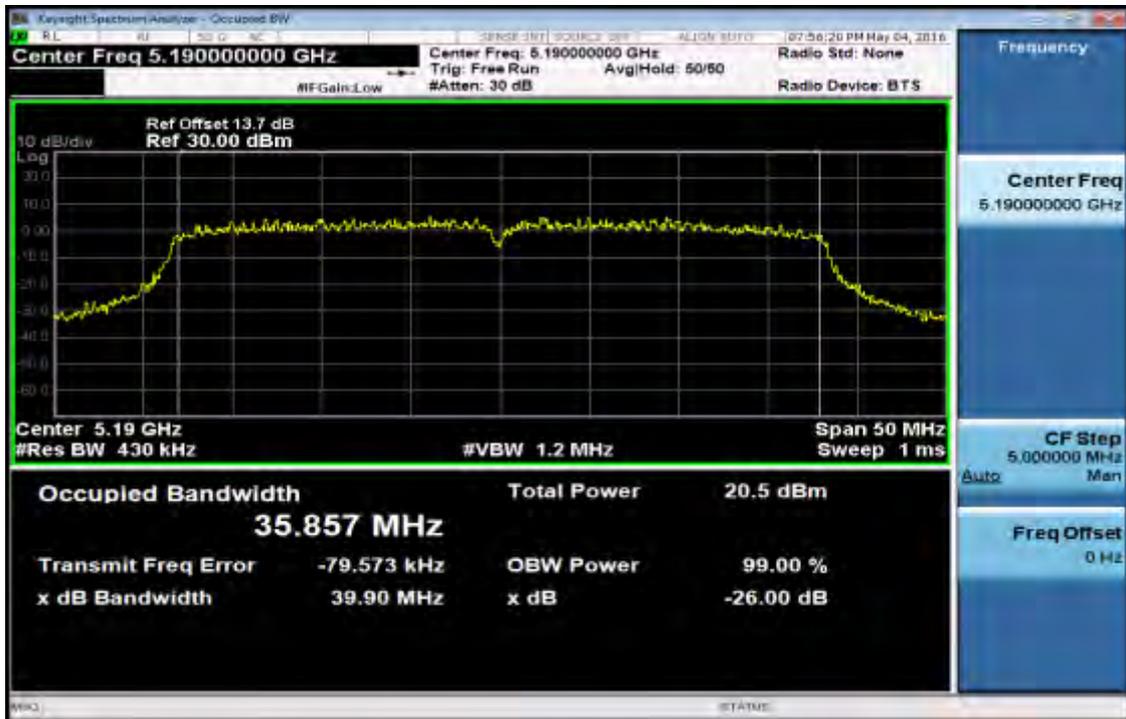
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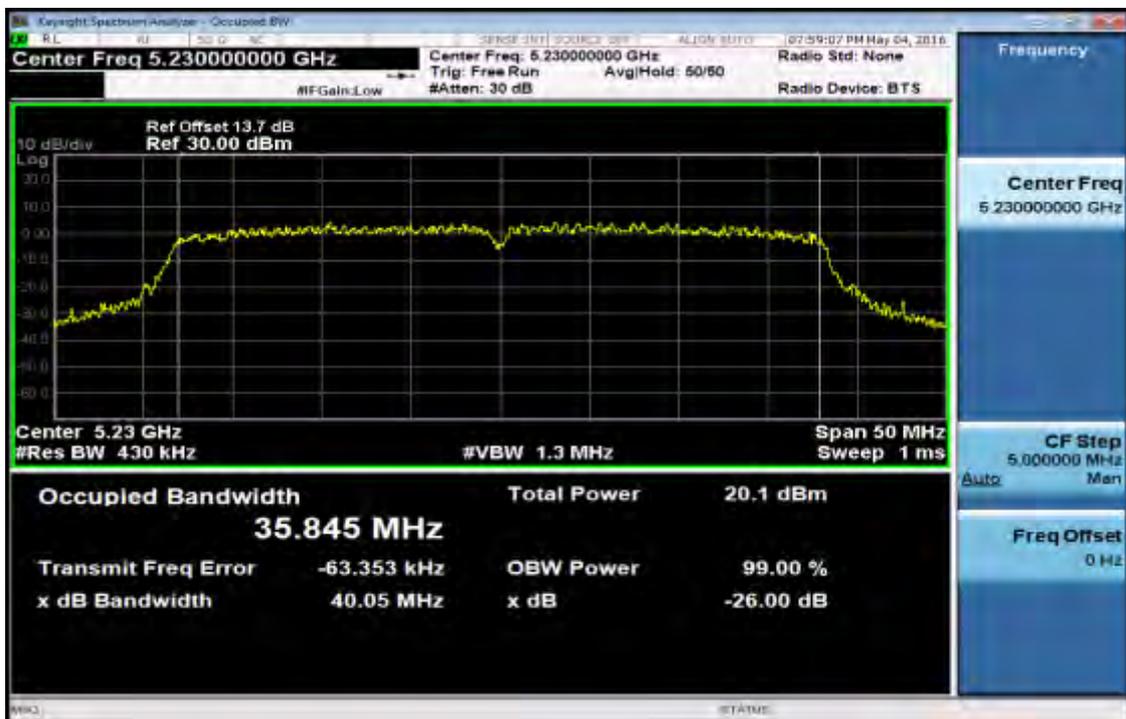
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**802.11n HT40, 5150~5250 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5190 MHz)**



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



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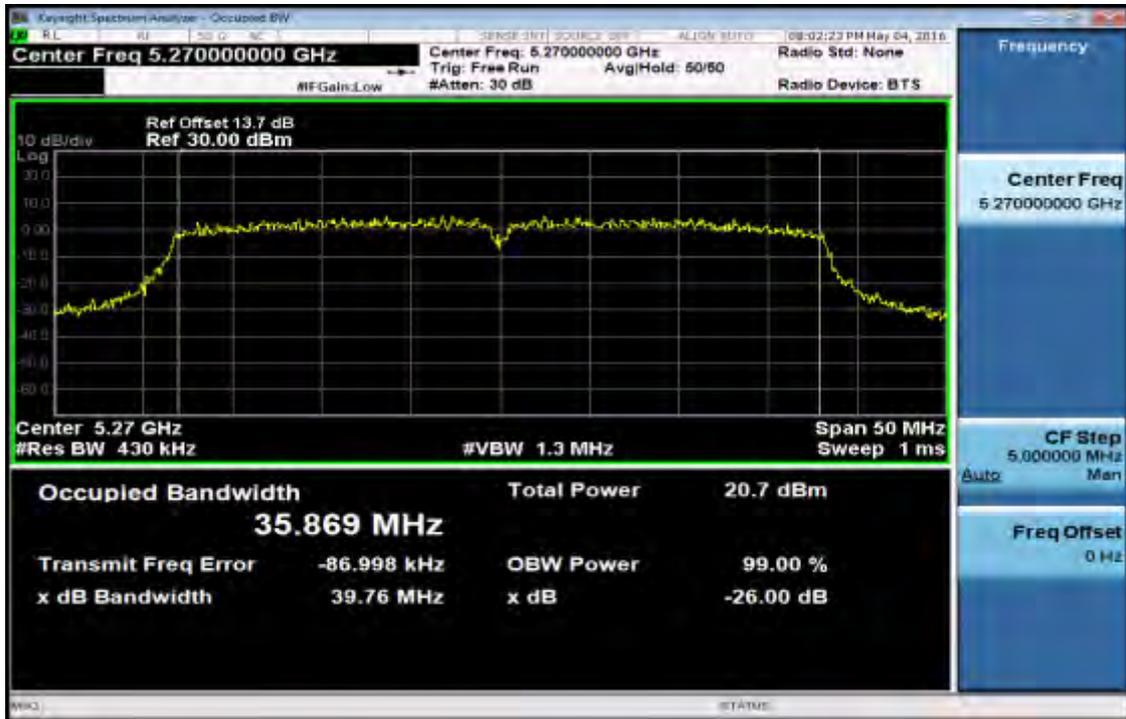
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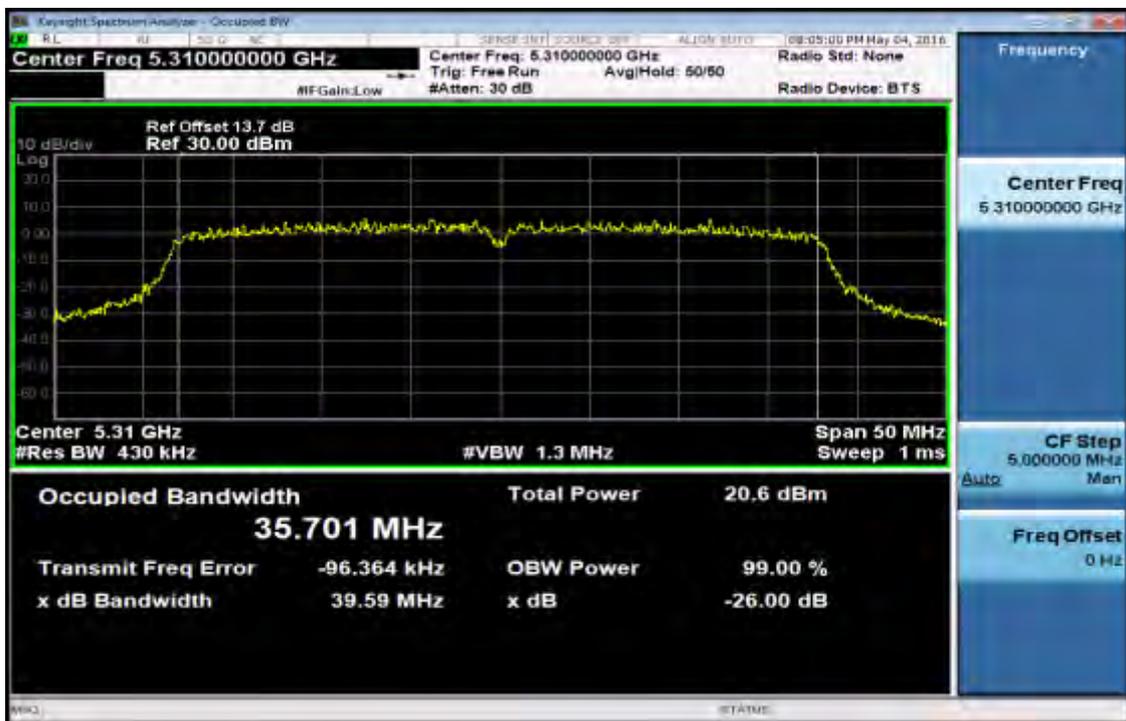
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**802.11n HT40, 5250~5350 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5270 MHz)**



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



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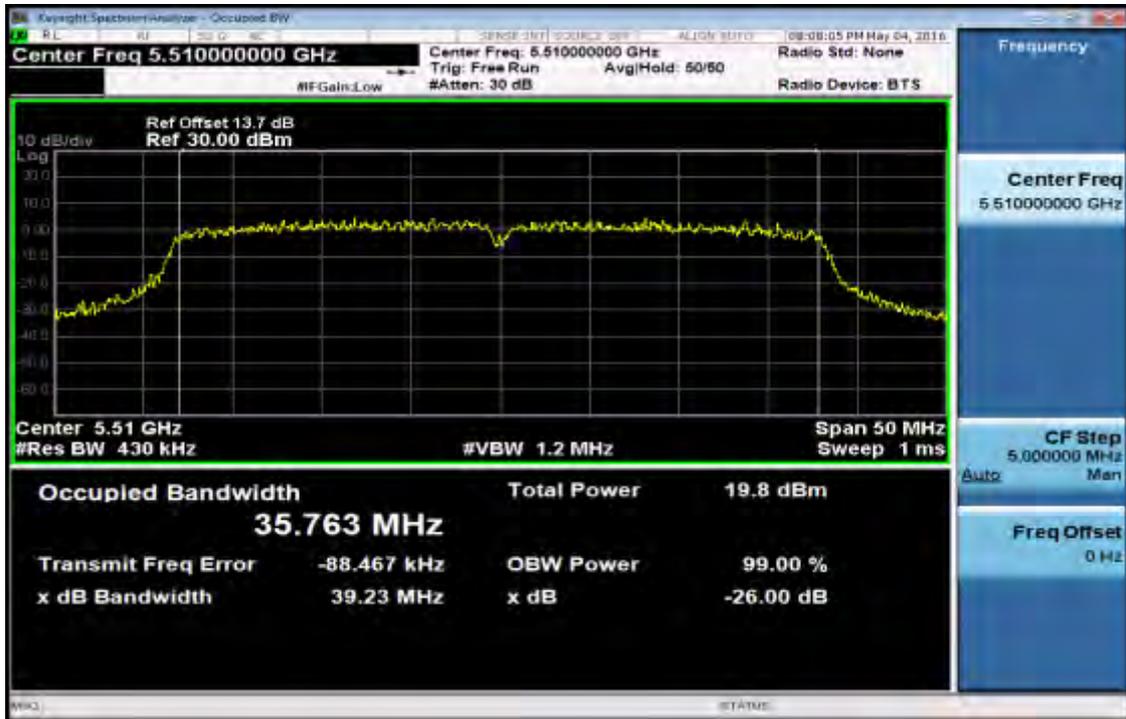
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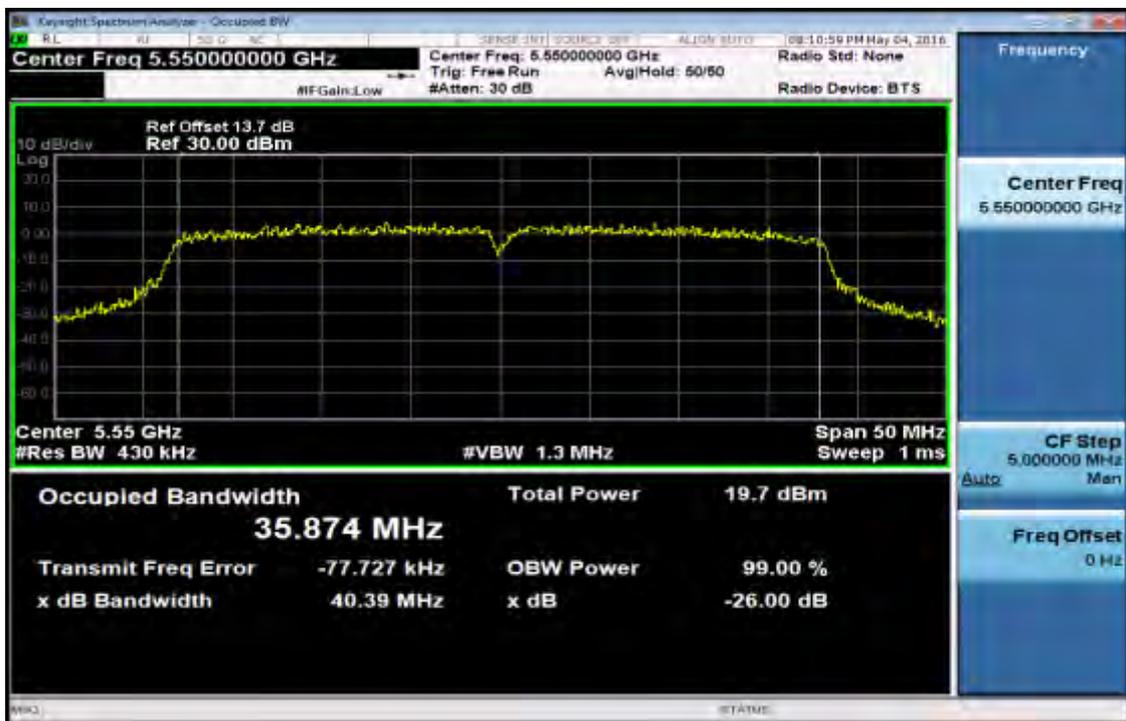
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### 802.11n HT40, 5470~5725 MHz (Aux1) 26dB Band Width Test Data CH-Low (5510 MHz)



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

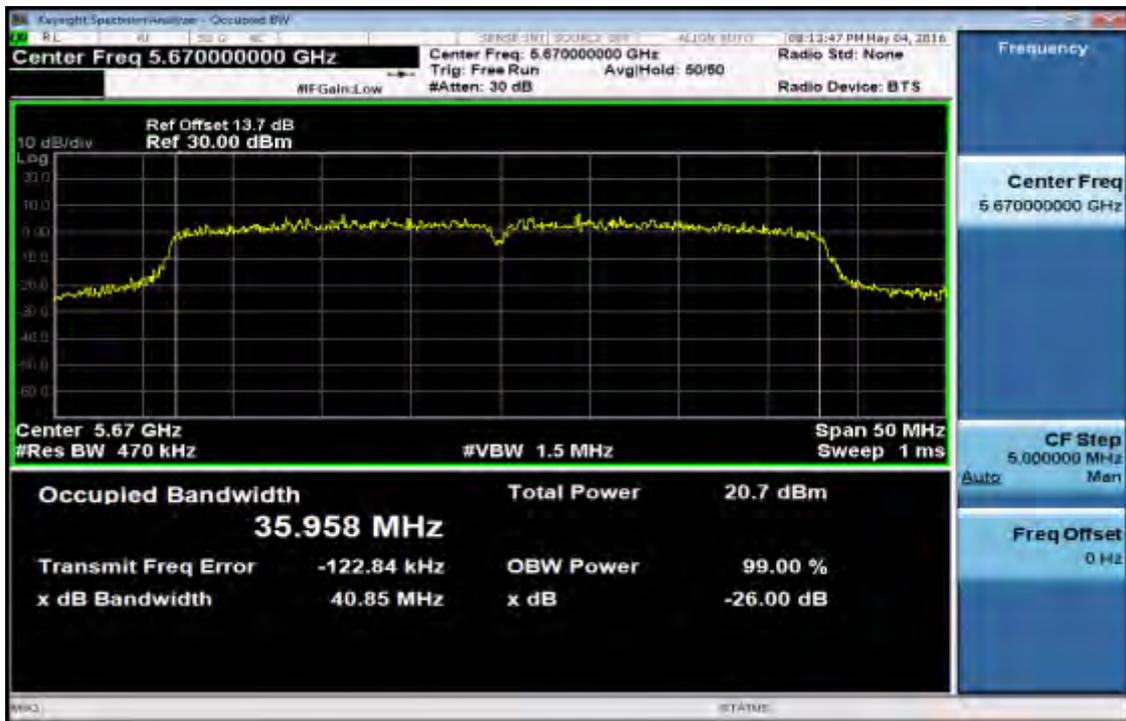


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### 26dB Band Width Test Data CH-High (5670 MHz)



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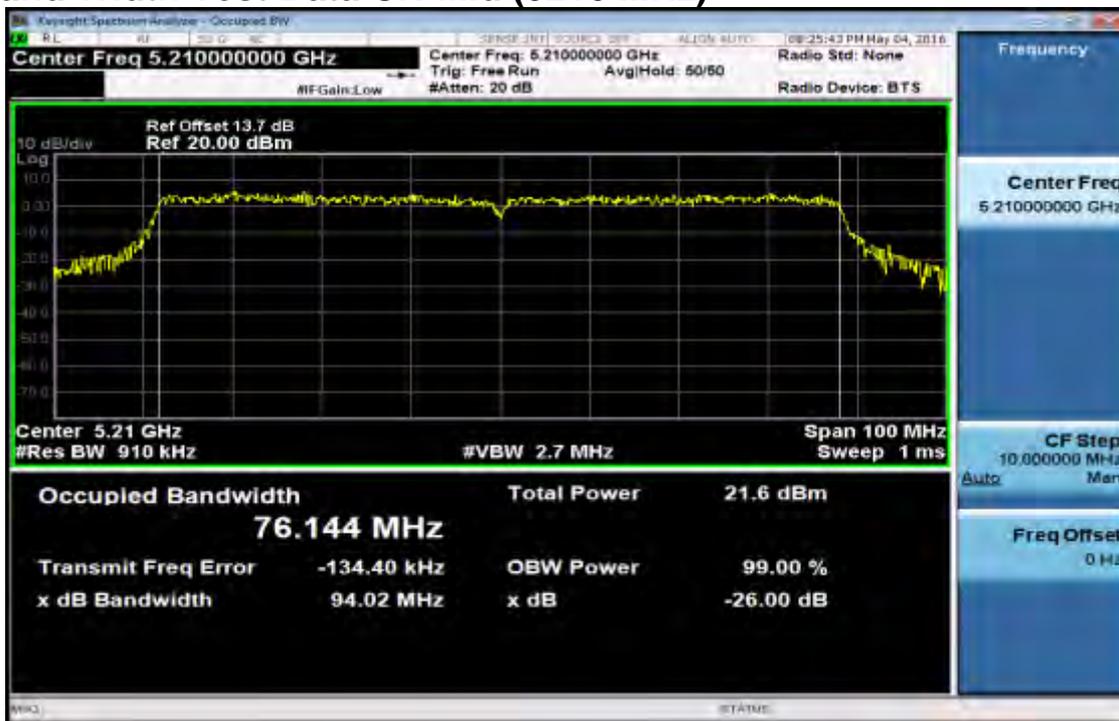
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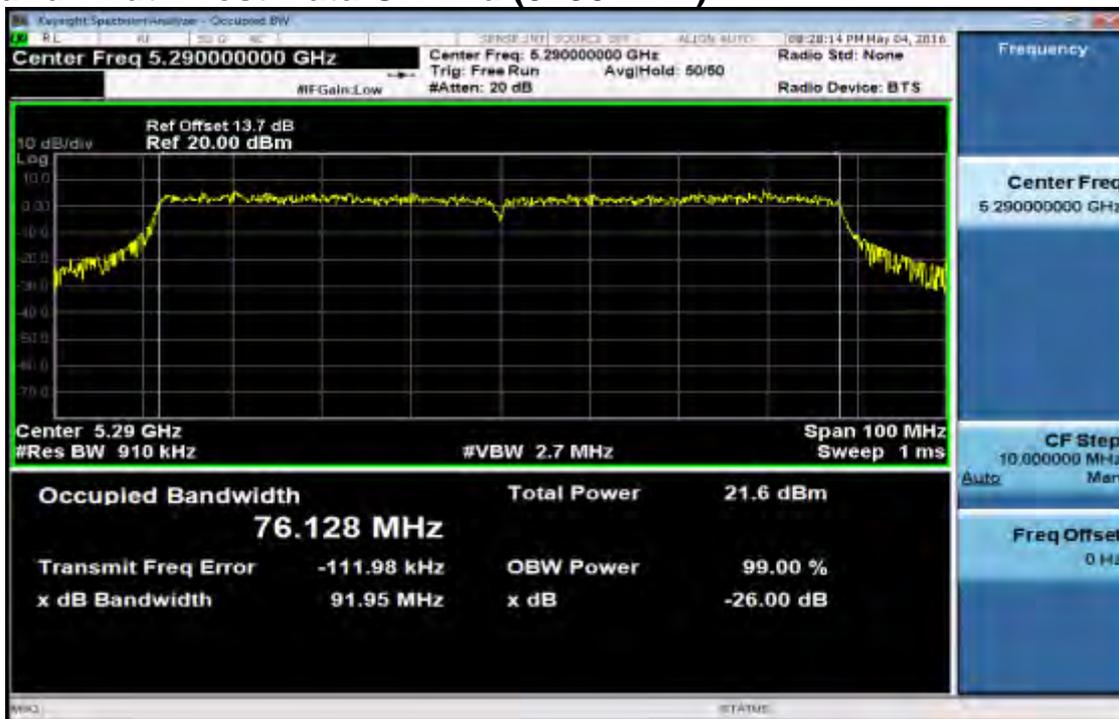
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**802.11ac VHT80, 5150~5250 MHz (Main)  
26dB Band Width Test Data CH-Mid (5210 MHz)**



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



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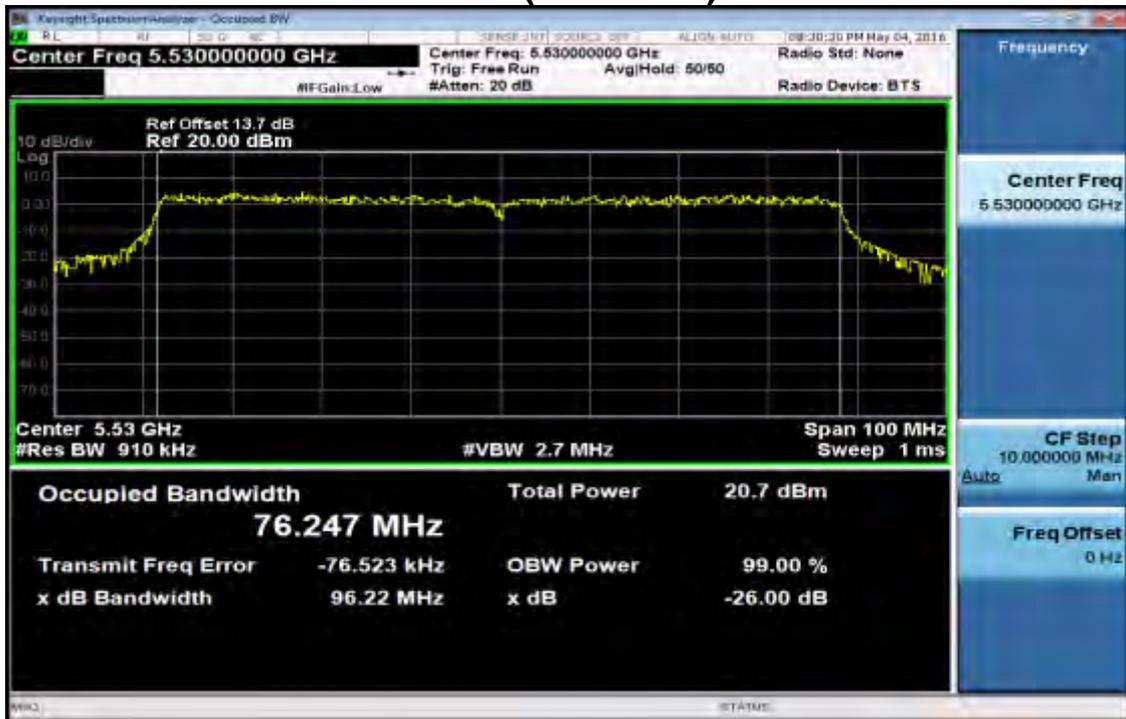
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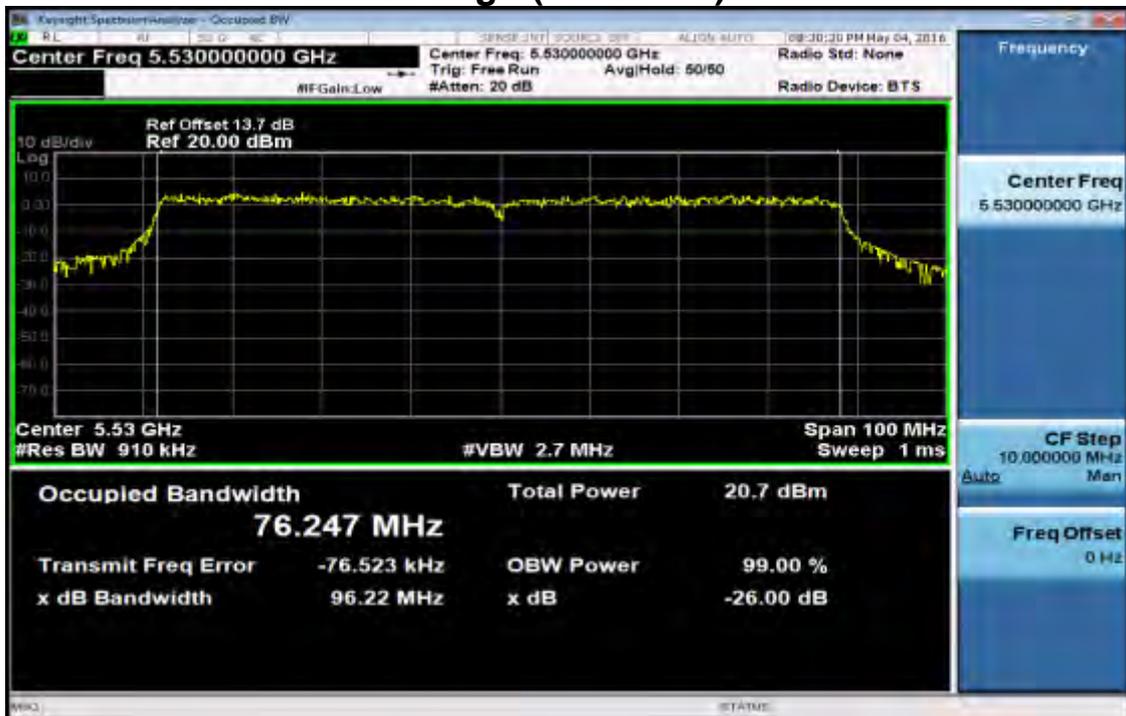
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**802.11ac VHT80, 5470~5725 MHz (Main)  
26dB Band Width Test Data CH-Low (5530 MHz)**



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



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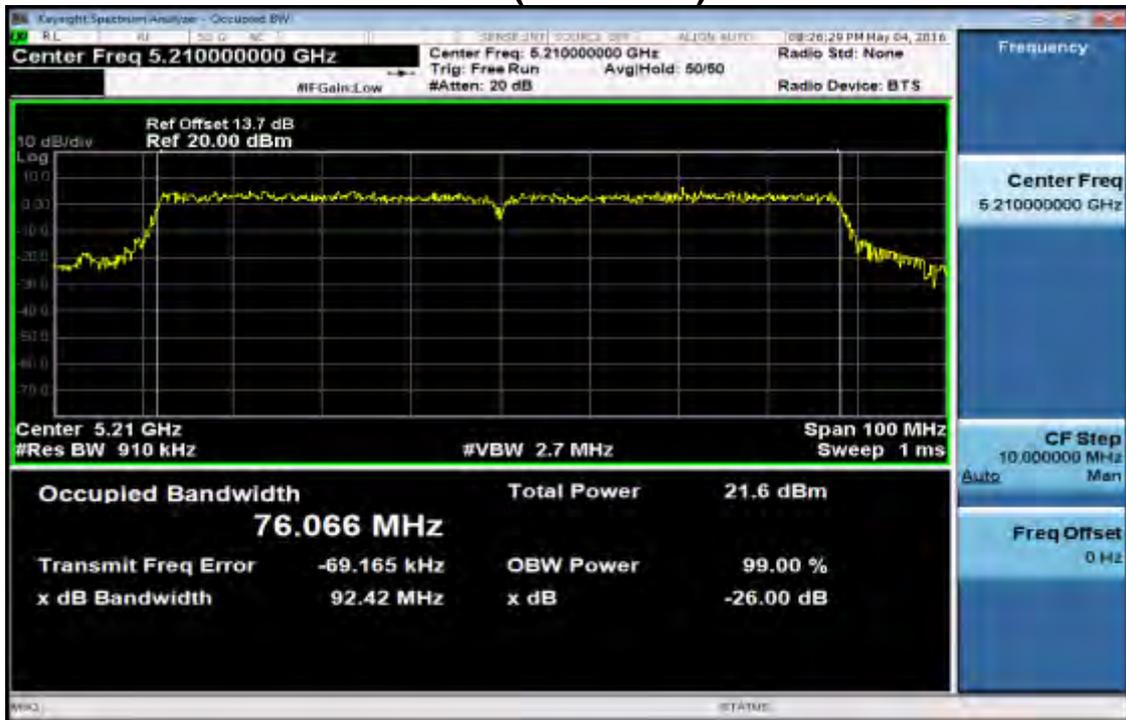
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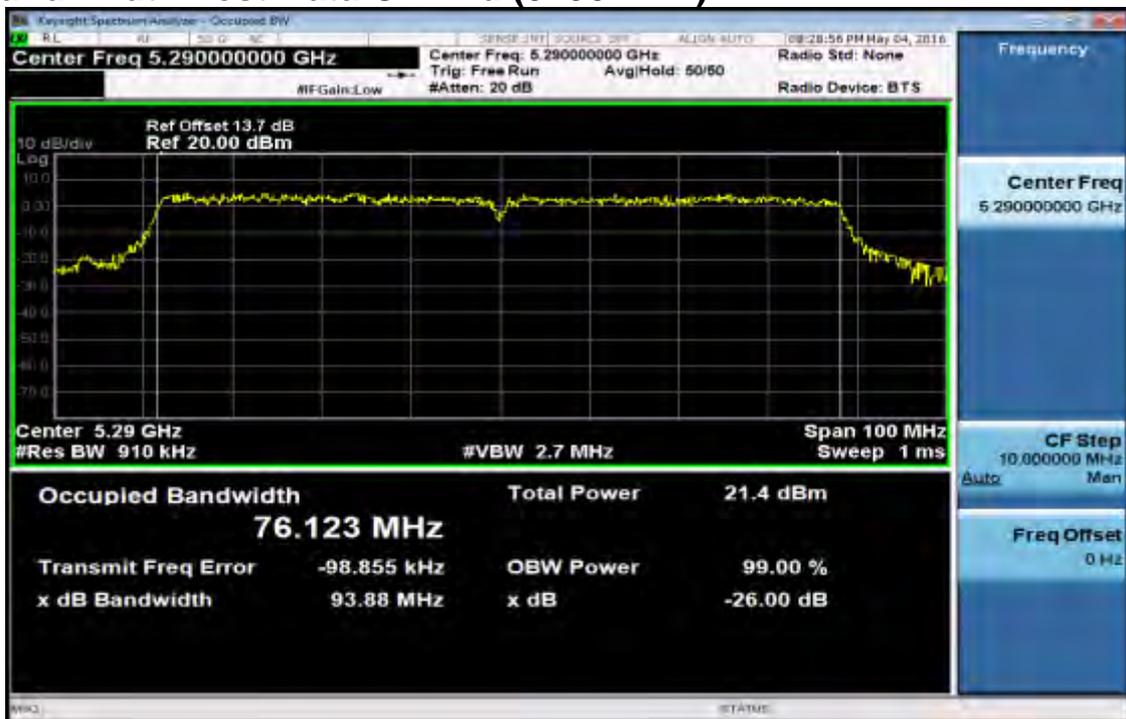
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**802.11ac VHT80, 5150~5250 MHz (Aux1)  
26dB Band Width Test Data CH-Mid (5210 MHz)**



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



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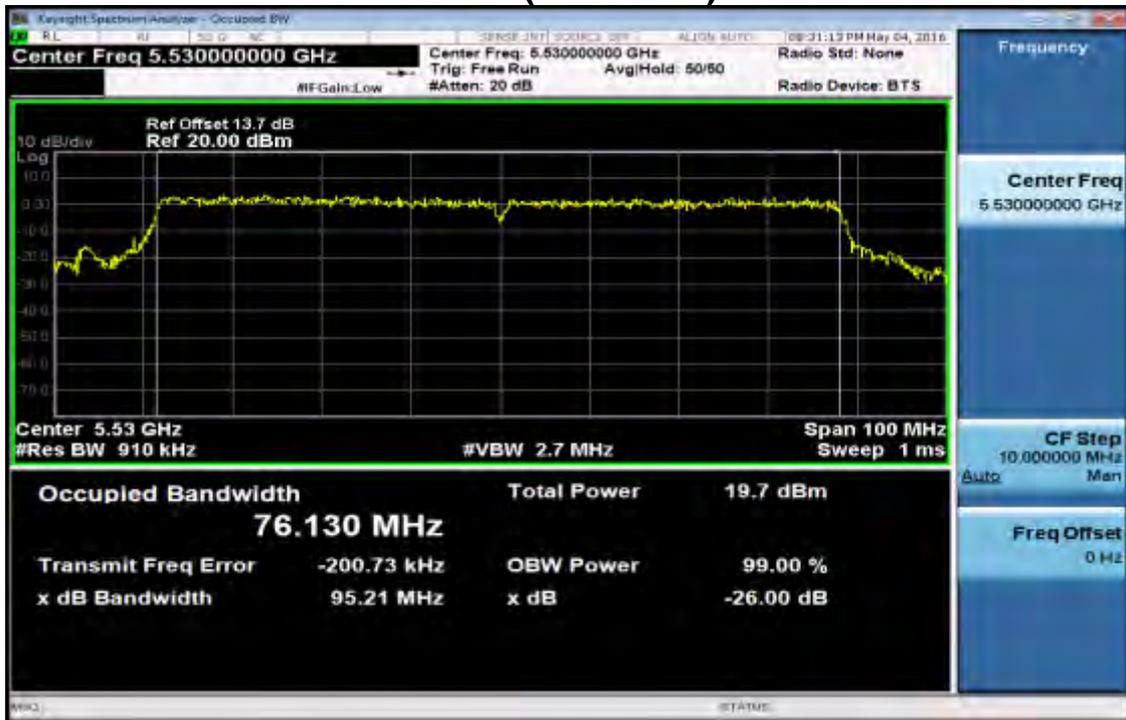
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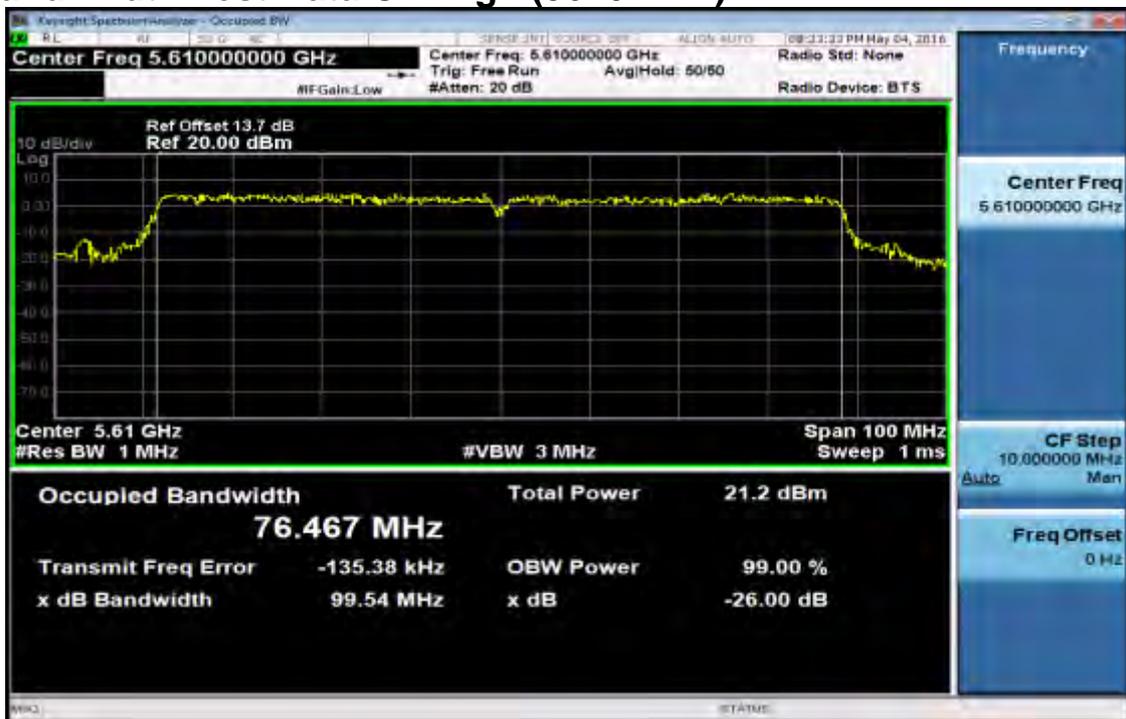
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**802.11ac VHT80, 5470~5725 MHz (Aux1)  
26dB Band Width Test Data CH-Low (5530 MHz)**



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



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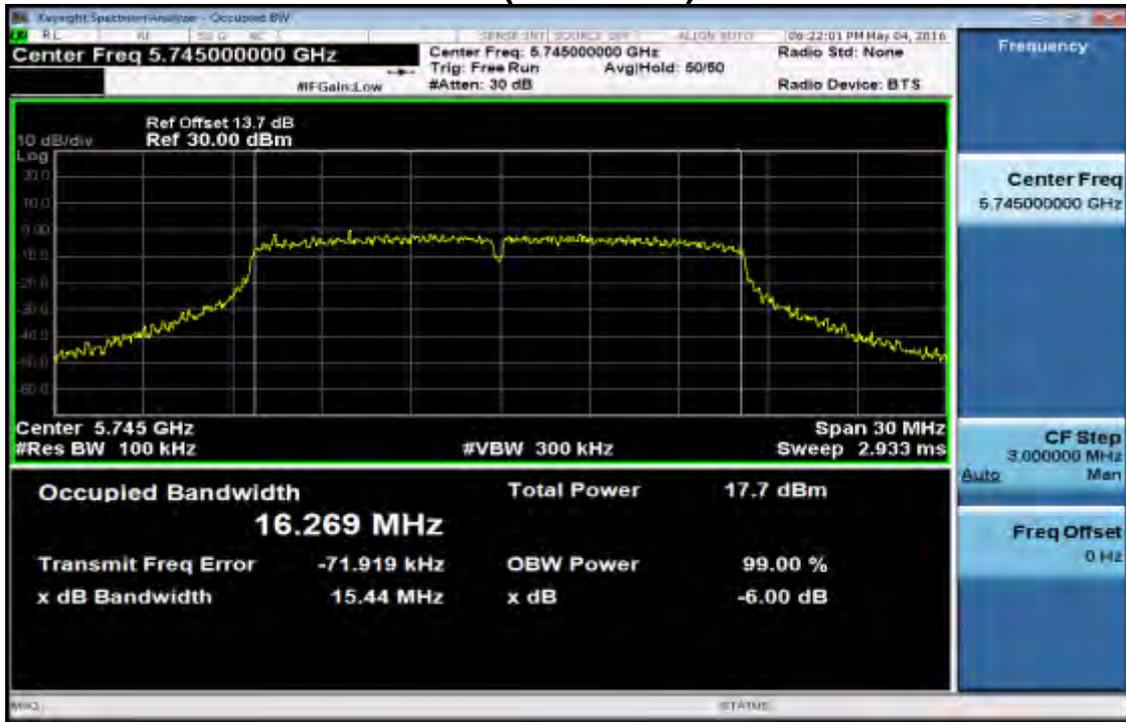
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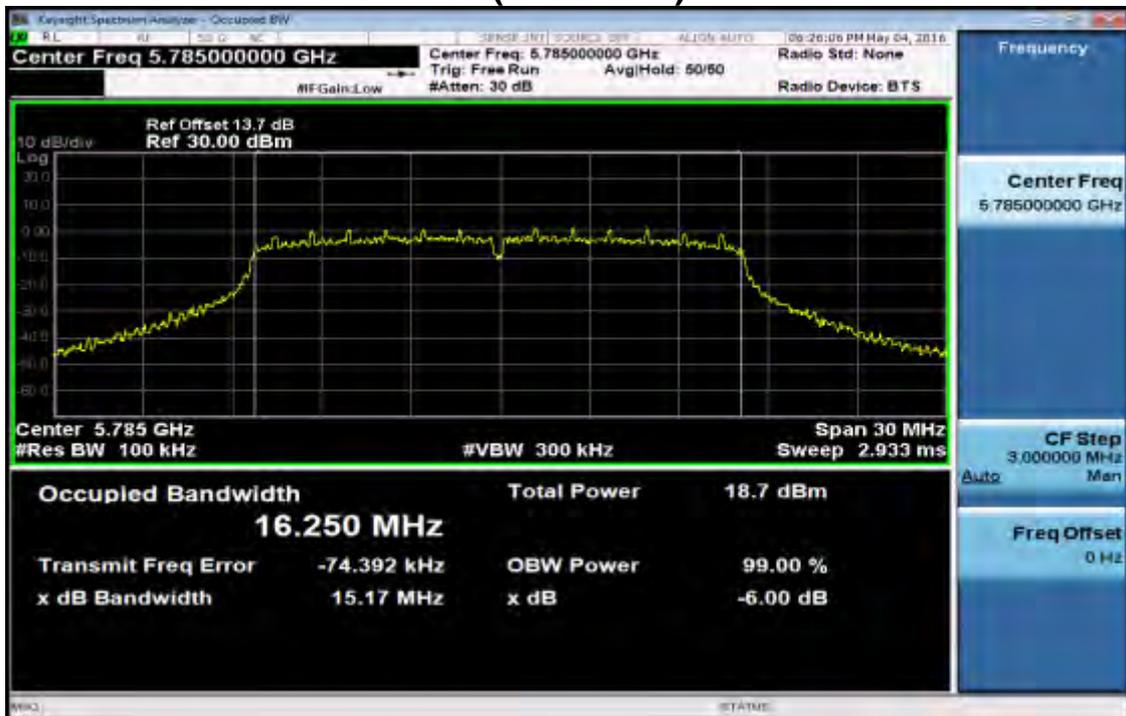
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6dB Band Width measure with Peak detector for FCC  
802.11a, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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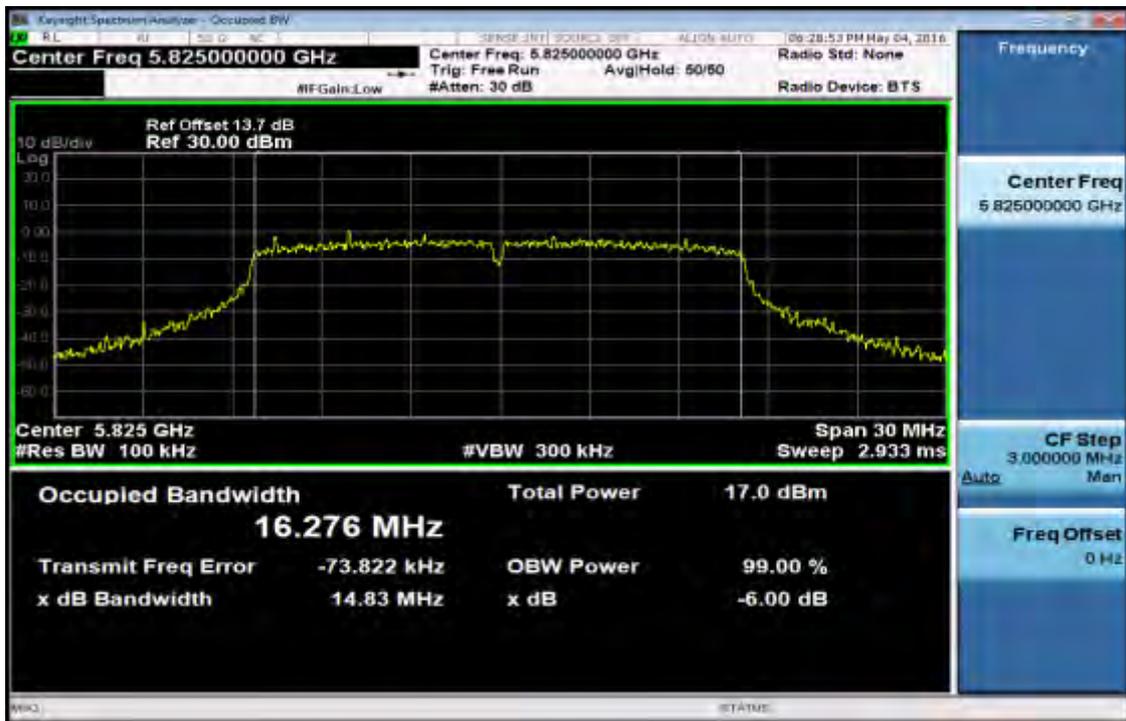
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### 6dB Band Width Test Data CH-High (5825 MHz)



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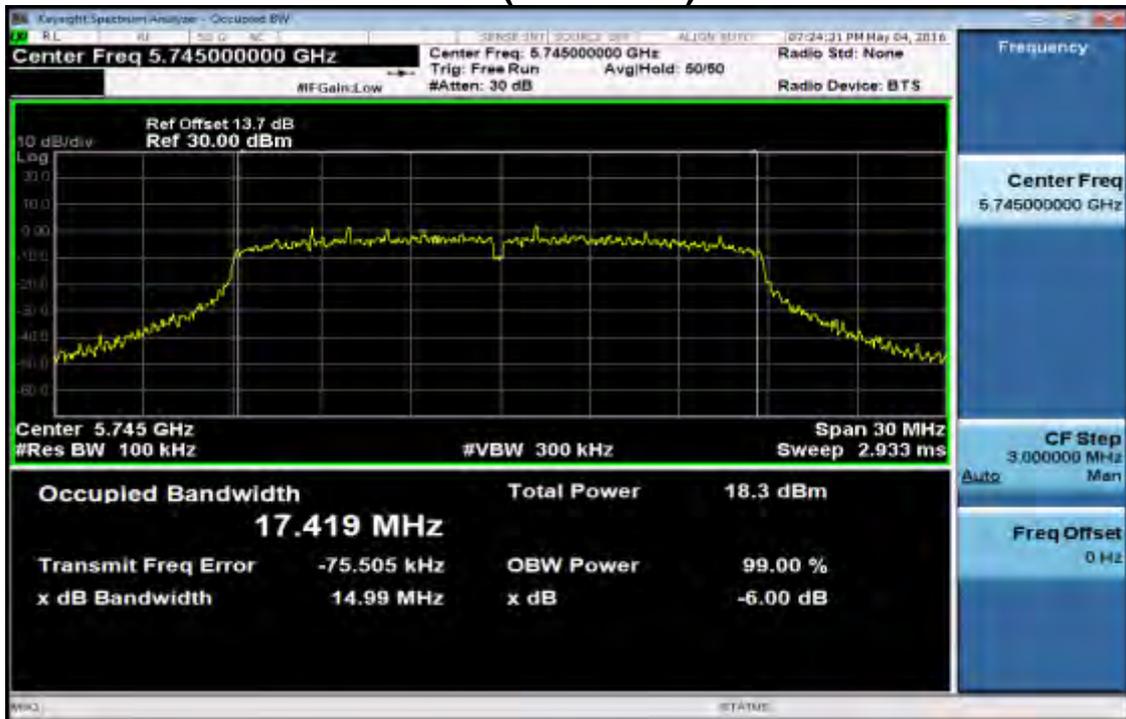
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**802.11n\_HT20, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data CH-Low (5745 MHz)**



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



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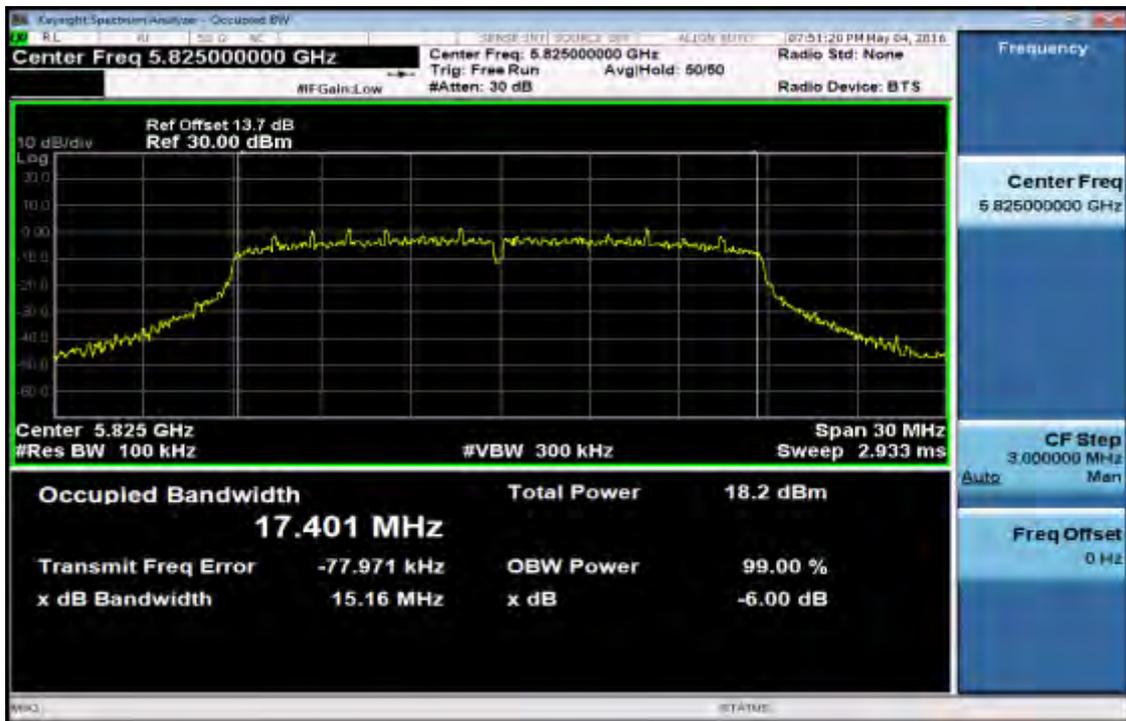
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### 6dB Band Width Test Data CH-High (5825 MHz)



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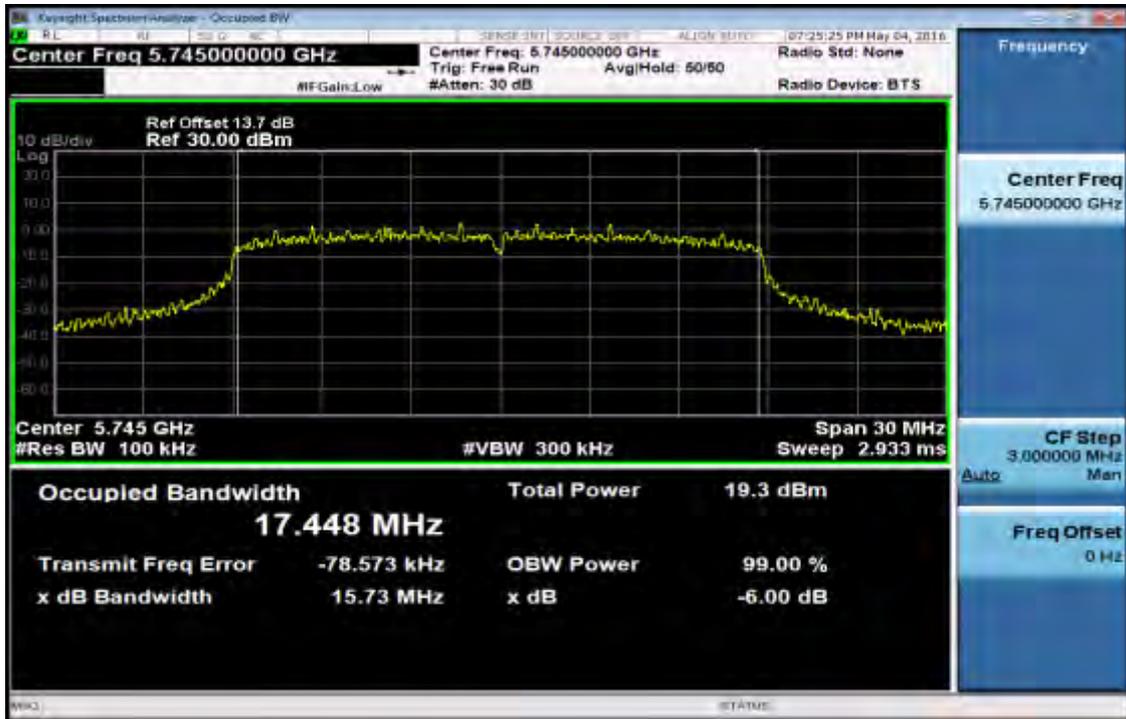
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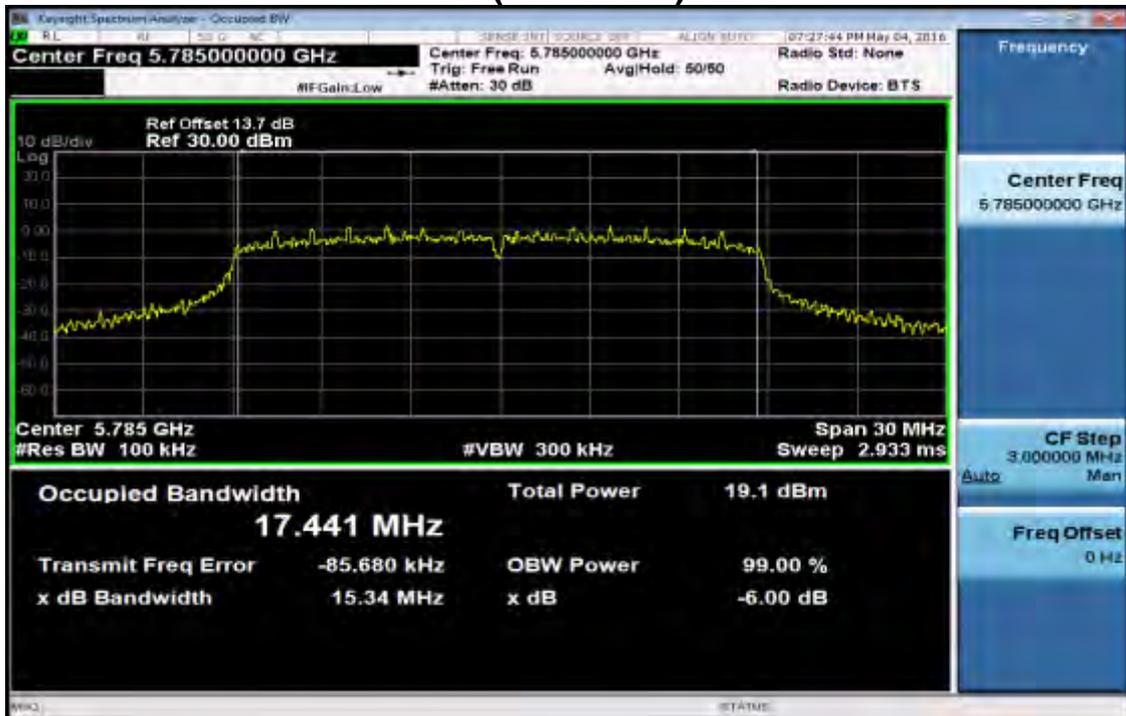
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802.11n\_HT20, 5725~5850 MHz (Aux1)  
6dB Band Width Test Data CH-Low (5745 MHz)



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



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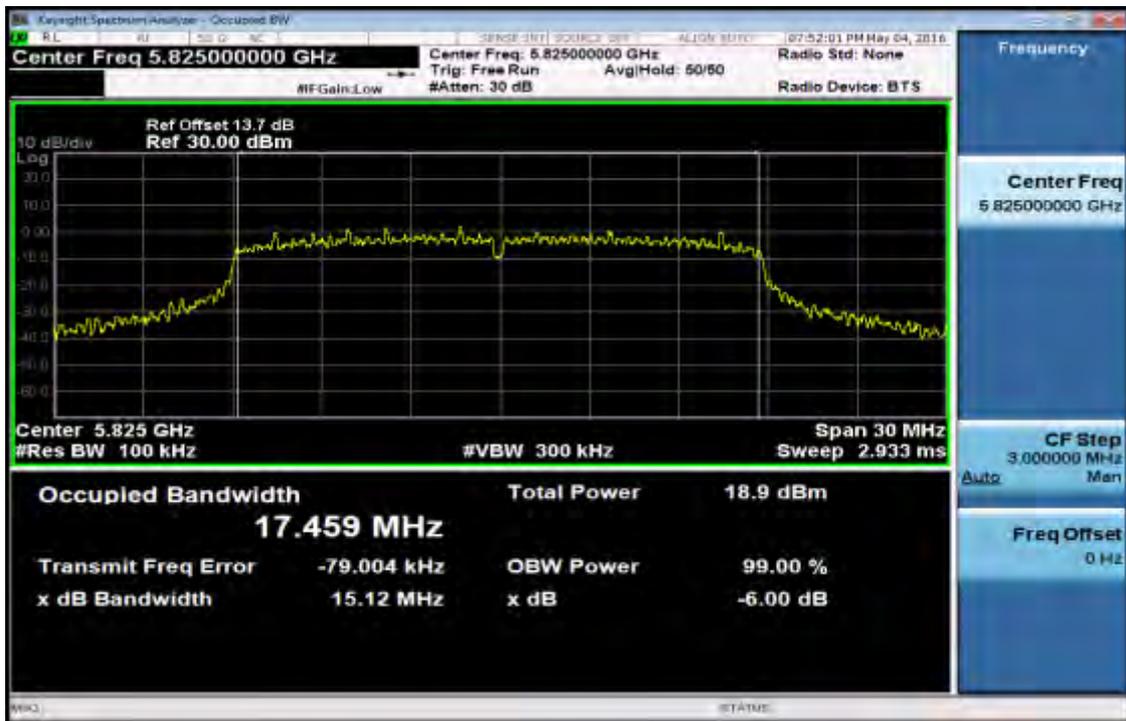
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### 6dB Band Width Test Data CH-High (5825 MHz)



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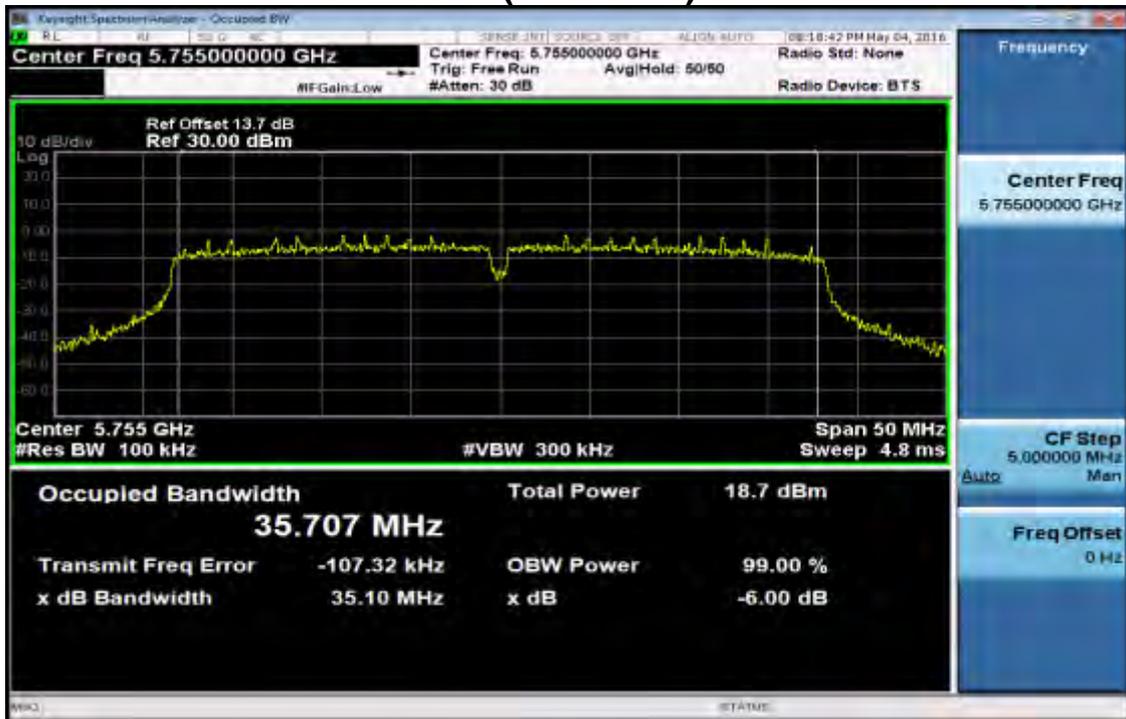
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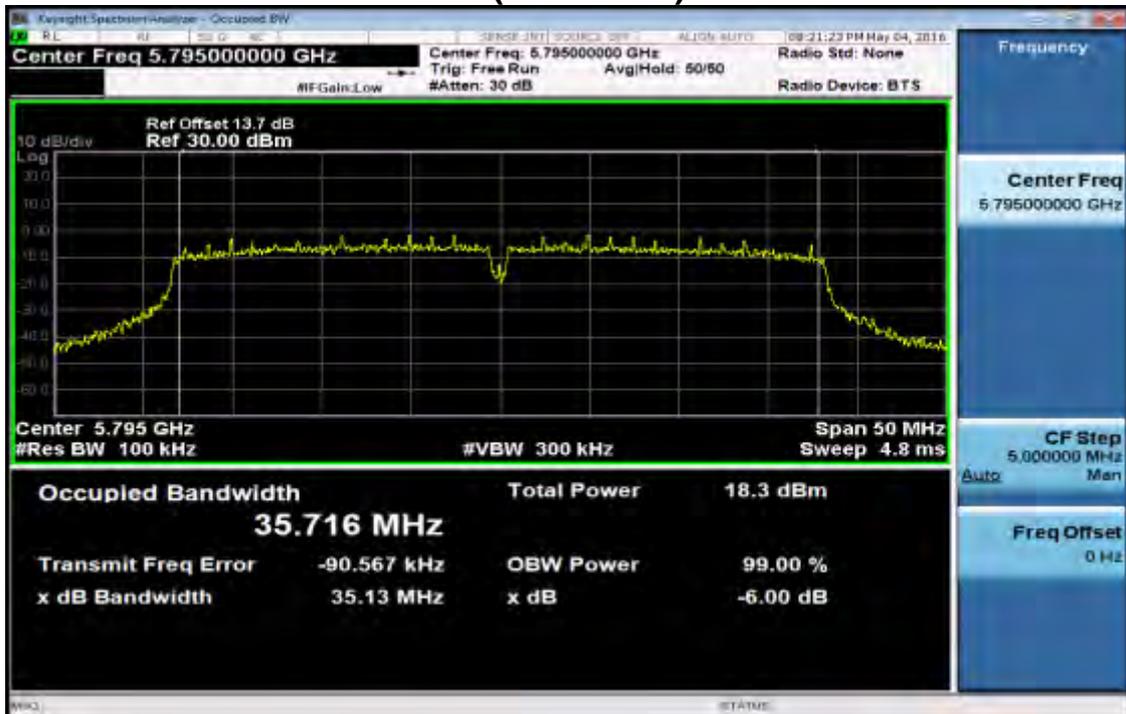
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**802.11n\_HT40, 5725~5850 MHz (Main)**  
**6dB Band Width Test Data CH-Low (5755 MHz)**



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



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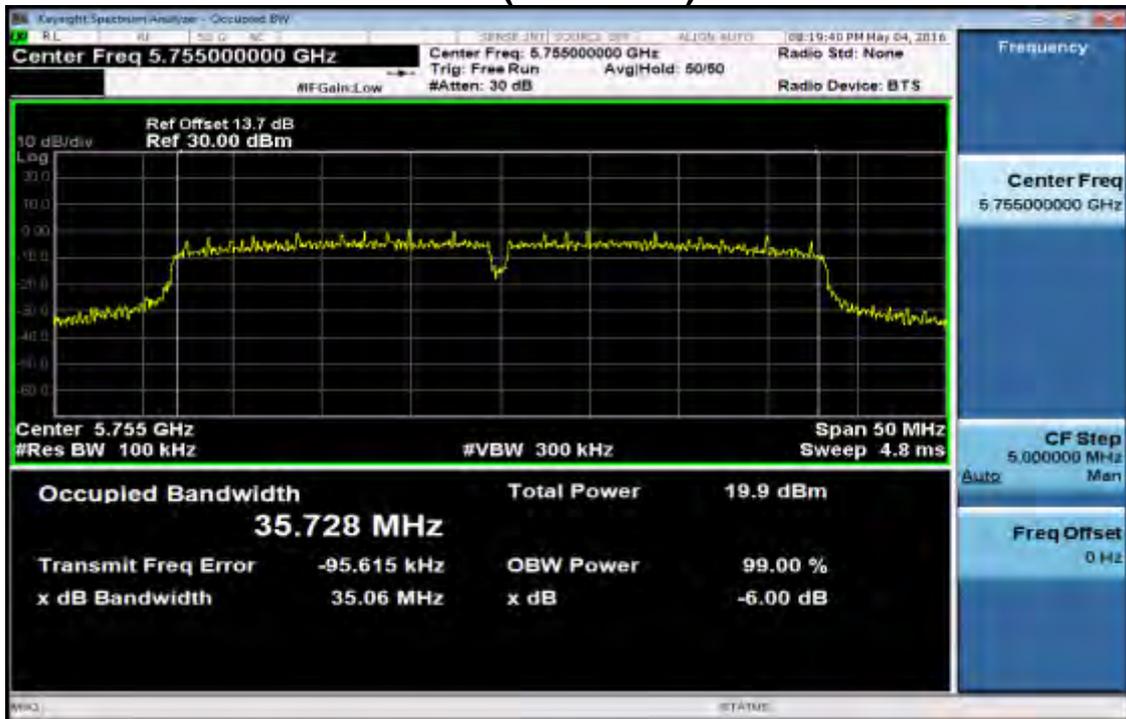
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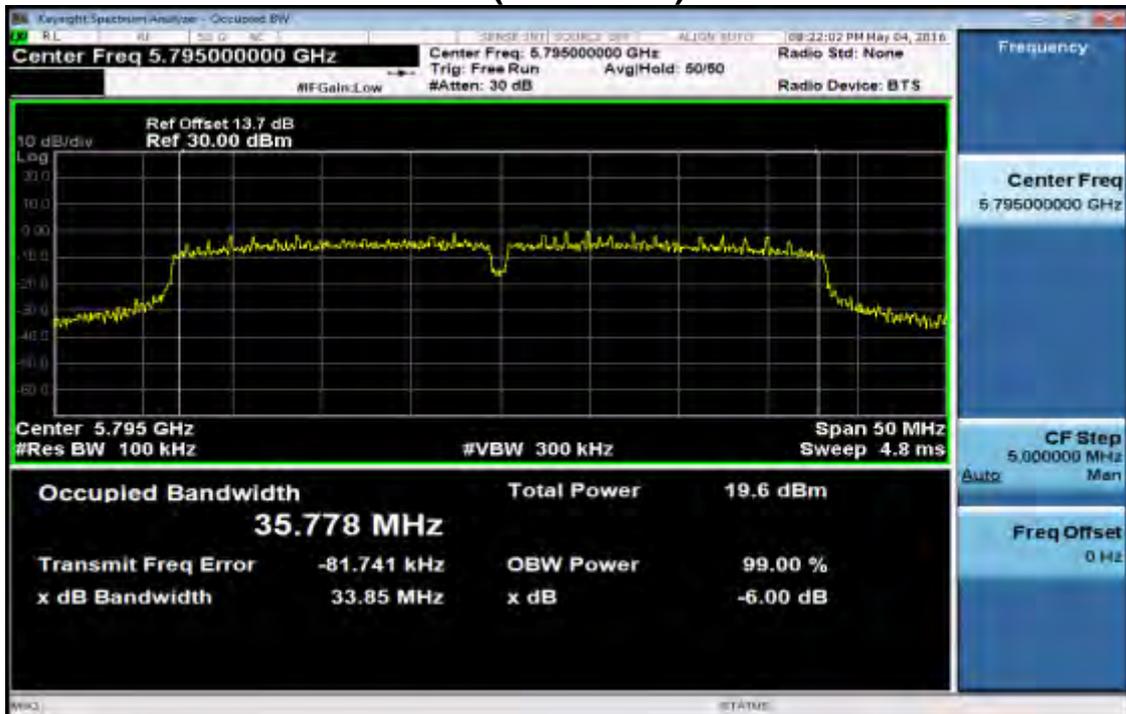
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802.11n\_HT40, 5725~5850 MHz (Aux1)  
6dB Band Width Test Data CH-Low (5755 MHz)



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



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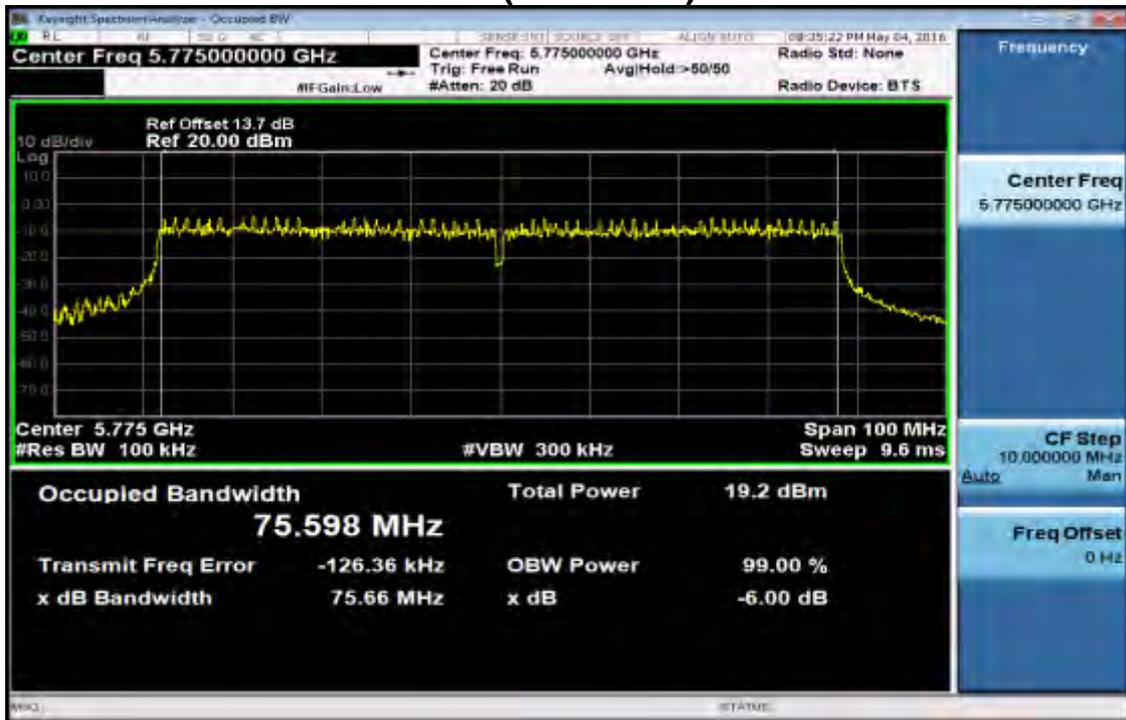
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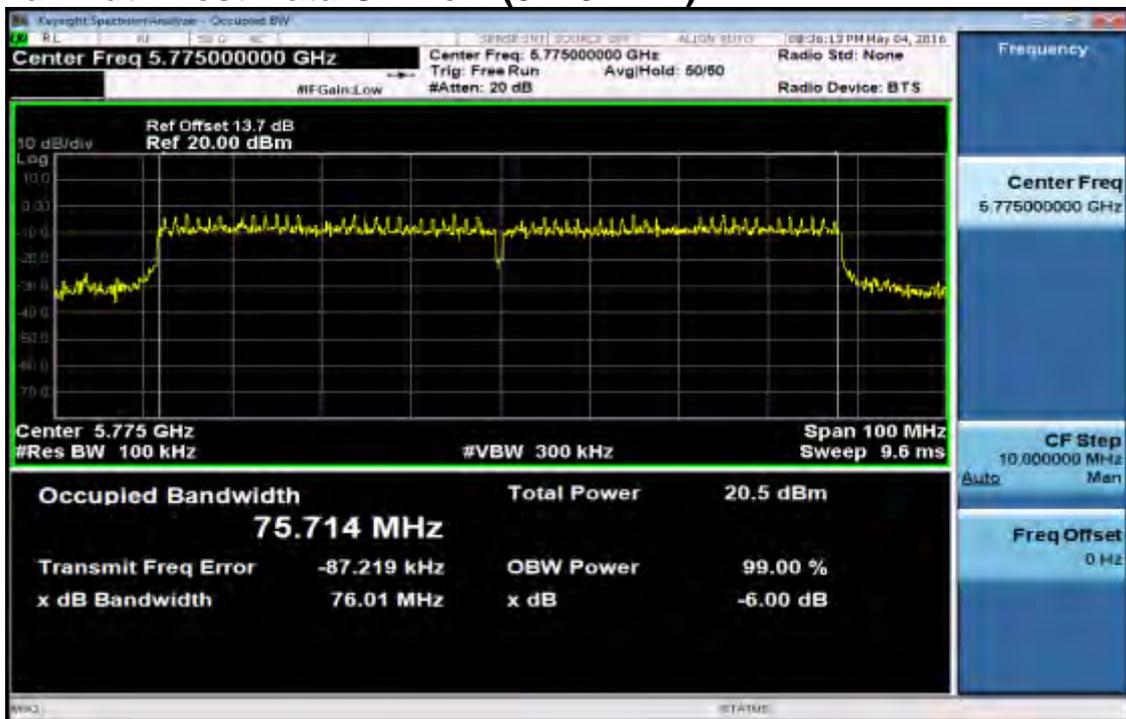
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**802.11ac VHT80, 5725~5850 MHz (Main)  
6dB Band Width Test Data CH-Low (5775 MHz)**



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



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## 9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

#### FCC

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

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

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Note: 5.15-5.25G

Antenna1 Gain: 0.49 dBi  
Antenna2 Gain: 0.4 dBi  
Number Antenna: 2 pcs  
Limit: 17 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:  
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)  
Effective Legacy Gain (dBi) = 3.455 dBi  
Limit: 17dBm – (3.455– 6dBi)=17

Note: 5.25-5.35G

Antenna1 Gain: 0.31 dBi  
Antenna2 Gain: 0.33 dBi  
Number Antenna: 2 pcs  
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:  
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)  
Effective Legacy Gain (dBi) = 3.33 dBi  
Limit: 11dBm – (3.33– 6dBi)=11

Note: 5.47-5.725G

Antenna1 Gain: 2.44 dBi  
Antenna2 Gain: 2.6 dBi  
Number Antenna: 2 pcs  
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:  
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)  
Effective Legacy Gain (dBi) = 5.511 dBi  
Limit: 11dBm – (5.511– 6dBi)=11

Note: 5.725-5.825G

Antenna1 Gain: 2.15 dBi  
Antenna2 Gain: 0.87 dBi  
Number Antenna: 2 pcs  
Limit: 11 dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:  
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)  
Effective Legacy Gain (dBi) = 4.544 dBi  
Limit: 30dBm – (4.544– 6dBi)=30

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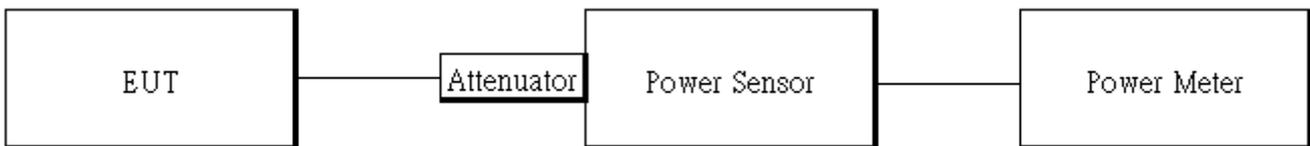
### 9.2 Measurement Procedure

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

### 9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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	05/17/2015	05/16/2016

### 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power (FCC)

#### 802.11a\_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.99	25.061	23.98	PASS
44	5220	13.92	24.660	23.98	PASS
48	5240	13.91	24.604	23.98	PASS
52	5260	13.85	24.266	23.98 or $11+10\log(B) = 23.86$	PASS
60	5300	13.8	23.988	23.98 or $11+10\log(B) = 23.73$	PASS
64	5320	13.82	24.099	23.98 or $11+10\log(B) = 23.87$	PASS
100	5500	12.88	19.409	23.98 or $11+10\log(B) = 23.82$	PASS
116	5580	12.85	19.275	23.98 or $11+10\log(B) = 23.72$	PASS
140	5700	12.82	19.143	23.98 or $11+10\log(B) = 23.93$	PASS
149	5745	12.95	19.724	30	PASS
157	5785	12.99	19.907	30	PASS
165	5825	12.92	19.588	30	PASS

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802.11n\_HT20\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
36	5180	13.89	13.74	16.83	48.150	23.98	PASS
44	5220	13.97	13.86	<b>16.93</b>	49.268	23.98	PASS
48	5240	13.92	13.81	16.88	48.704	23.98	PASS
52	5260	14.03	13.62	16.84	48.307	23.98 or $11+10\log(B) = 23.93$	PASS
60	5300	14.07	13.59	<b>16.85</b>	48.383	23.98 or $11+10\log(B) = 23.93$	PASS
64	5320	14.05	13.56	16.82	48.108	23.98 or $11+10\log(B) = 23.90$	PASS
100	5500	13.15	12.22	<b>15.72</b>	37.326	23.98 or $11+10\log(B) = 23.96$	PASS
116	5580	13.05	12.14	15.63	36.552	23.98 or $11+10\log(B) = 23.94$	PASS
140	5700	13.11	12.18	15.68	36.984	23.98 or $11+10\log(B) = 23.93$	PASS
149	5745	13.04	12.48	<b>15.78</b>	37.838	30	PASS
157	5785	12.98	12.44	15.73	37.400	30	PASS
165	5825	13	12.4	15.72	37.331	30	PASS

802.11n\_HT40\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
38	5190	13.89	13.81	16.86	48.534	23.98	PASS
46	5230	13.99	13.79	<b>16.90</b>	48.994	23.98	PASS
54	5270	14.14	13.55	16.87	48.588	23.98 or $11+10\log(B) = 26.99$	PASS
62	5310	14.23	13.66	<b>16.96</b>	49.712	23.98 or $11+10\log(B) = 26.98$	PASS
102	5510	12.08	11.3	14.72	29.633	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	12.34	11.41	<b>14.91</b>	30.975	23.98 or $11+10\log(B) = 27.04$	PASS
134	5670	11.74	11.99	14.88	30.740	23.98 or $11+10\log(B) = 27.04$	PASS
151	5755	12.05	11.17	14.64	29.124	30	PASS
159	5795	12.45	11.44	<b>14.98</b>	31.511	30	PASS

802.11ac\_VHT80\_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CHAIN 0	CHAIN 1				
42	5210	12.76	12.4	15.59	36.258	23.98	PASS
58	5290	12.58	12.47	15.54	35.774	23.98 or $11+10\log(B) = 30.64$	PASS
106	5530	11.3	10.38	13.87	24.404	23.98 or $11+10\log(B) = 30.79$	PASS
122	5610	12.99	12.93	15.97	39.540	23.98 or $11+10\log(B) = 30.69$	PASS
155	5775	10.08	9.11	12.63	18.333	30	PASS

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## 10. PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

#### FCC

OPERZTION 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

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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## 10.2 Measurement Procedure

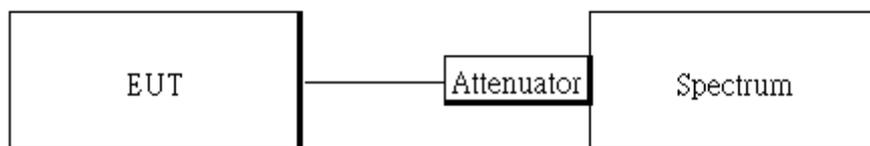
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**  
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)  
**For U-NII-3 Band:**  
Set RBW=500 kHz, VBW≥ 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

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

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY50420195	12/21/2015	12/20/2016
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



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## 10.5 Measurement Result

POWER DENSITY 802.11a MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	0.69	17	-16.31
5220	-1.81	17	-18.81
5240	0.81	17	-16.19
5260	-0.01	11	-11.01
5300	0.68	11	-10.32
5320	1.32	11	-9.68
5500	-1.12	11	-12.12
5580	0.53	11	-10.47
5700	-0.42	11	-11.42
5745	7.30	30	-22.70
5785	6.39	30	-23.61
5825	6.33	30	-23.67

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-1.34	17	-18.34
5220	-0.51	17	-17.51
5240	-1.04	17	-18.04
5260	-0.94	11	-11.94
5300	0.81	11	-10.19
5320	-0.66	11	-11.66
5500	3.03	11	-7.97
5580	3.33	11	-7.67
5700	0.45	11	-10.55
5745	8.72	30	-21.28
5785	9.04	30	-20.96
5825	8.49	30	-21.51

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POWER DENSITY 802.11n HT40 MODE			
Frequency	PPSD	Limit	Margin
5190	-5.06	17	-22.06
5230	-5.73	17	-22.73
5270	-5.23	11	-16.23
5310	-4.87	11	-15.87
5510	-6.35	11	-17.35
5550	-3.44	11	-14.44
5670	-3.67	11	-14.67
5755	5.80	30	-24.20
5795	5.58	30	-24.42

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-10.41	17	-27.41
5290	-11.32	11	-22.32
5530	-13.20	11	-24.20
5610	-10.34	11	-21.34
5775	1.27	30	-28.73

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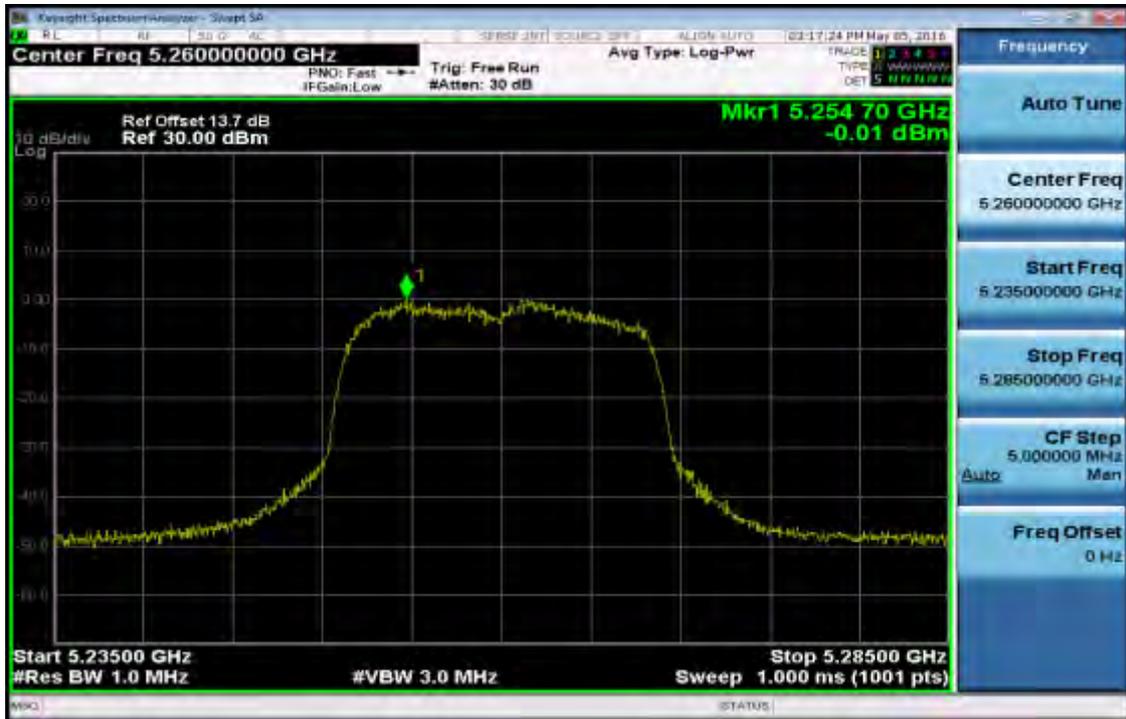
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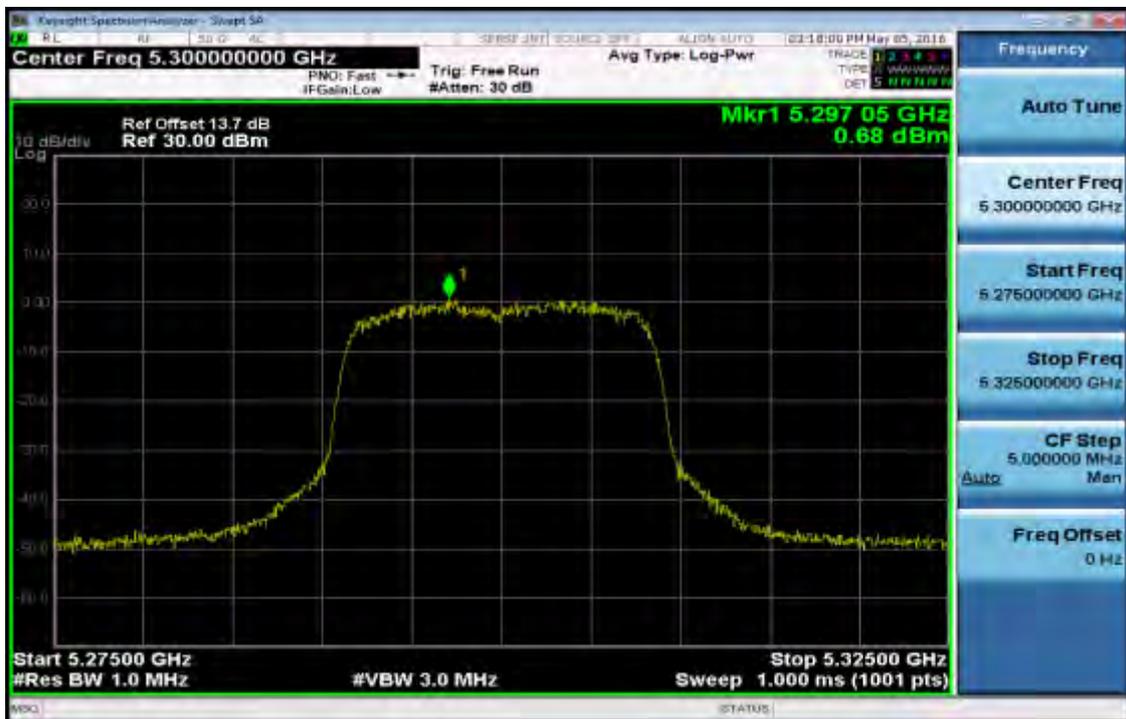
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**802.11a 5250~5350 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5260 MHz)**



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



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



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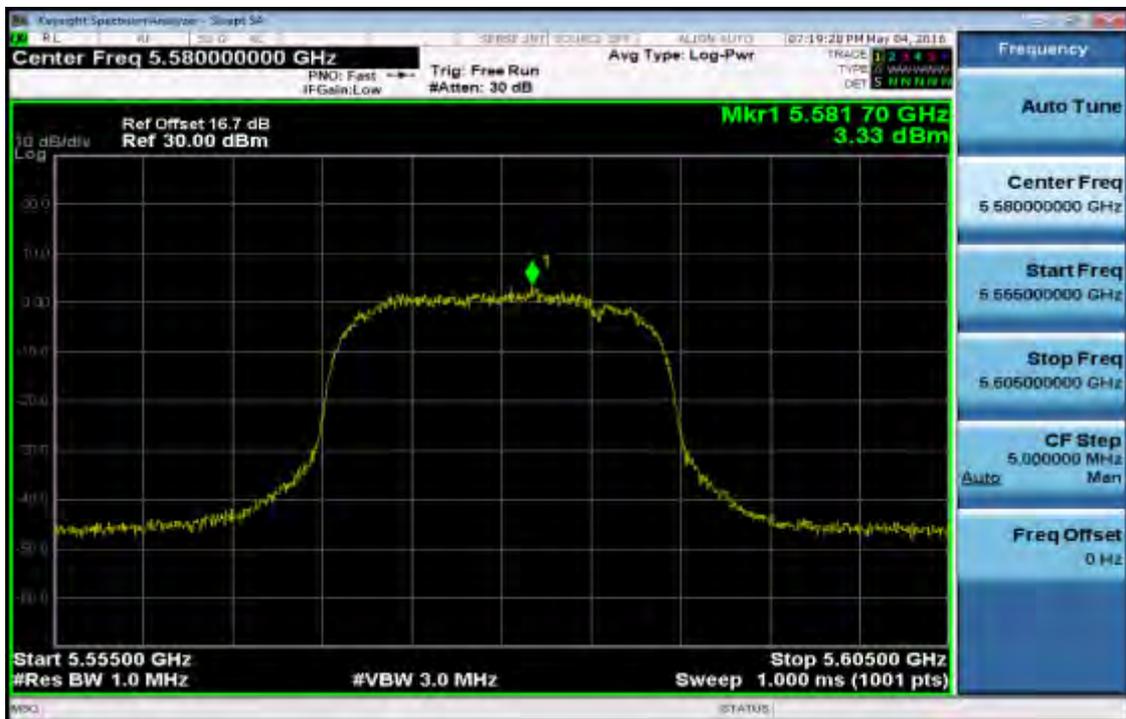
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**802.11n HT20, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)**



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



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### 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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**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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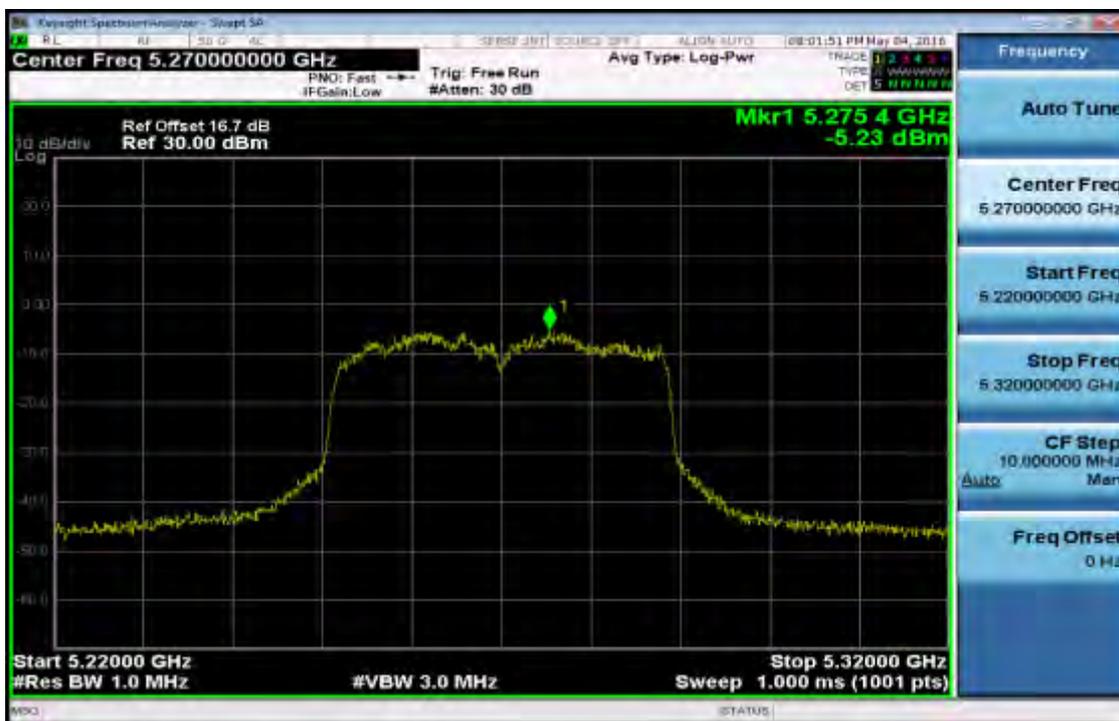
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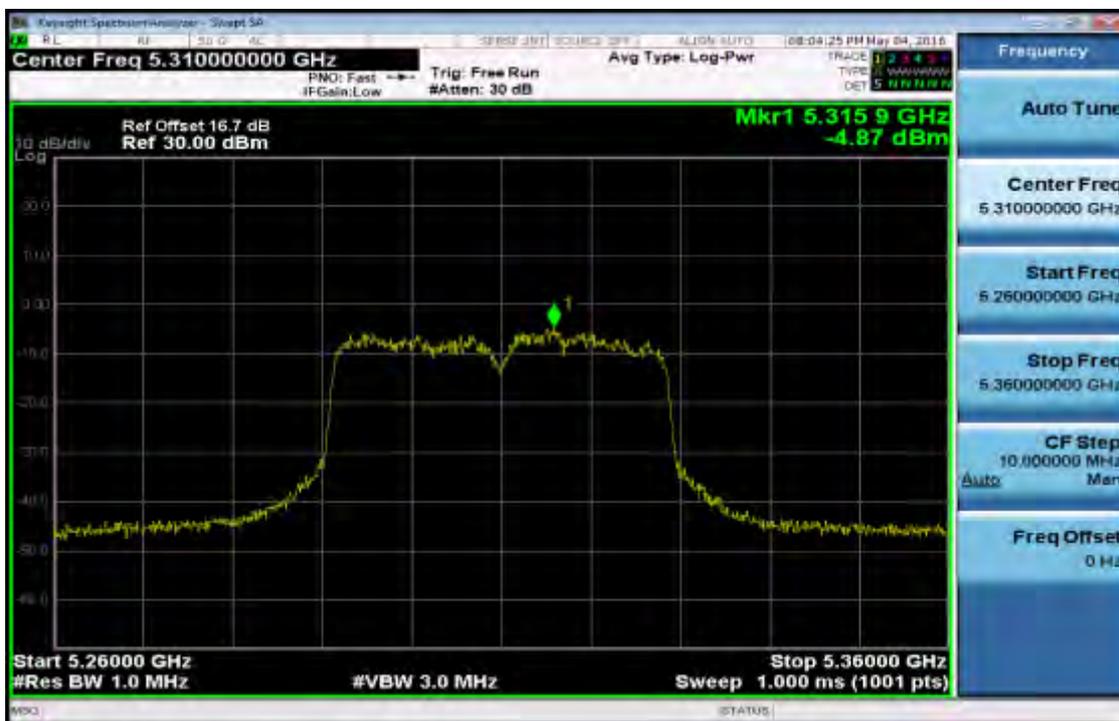
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### 802.11n HT40, 5250~5350 MHz Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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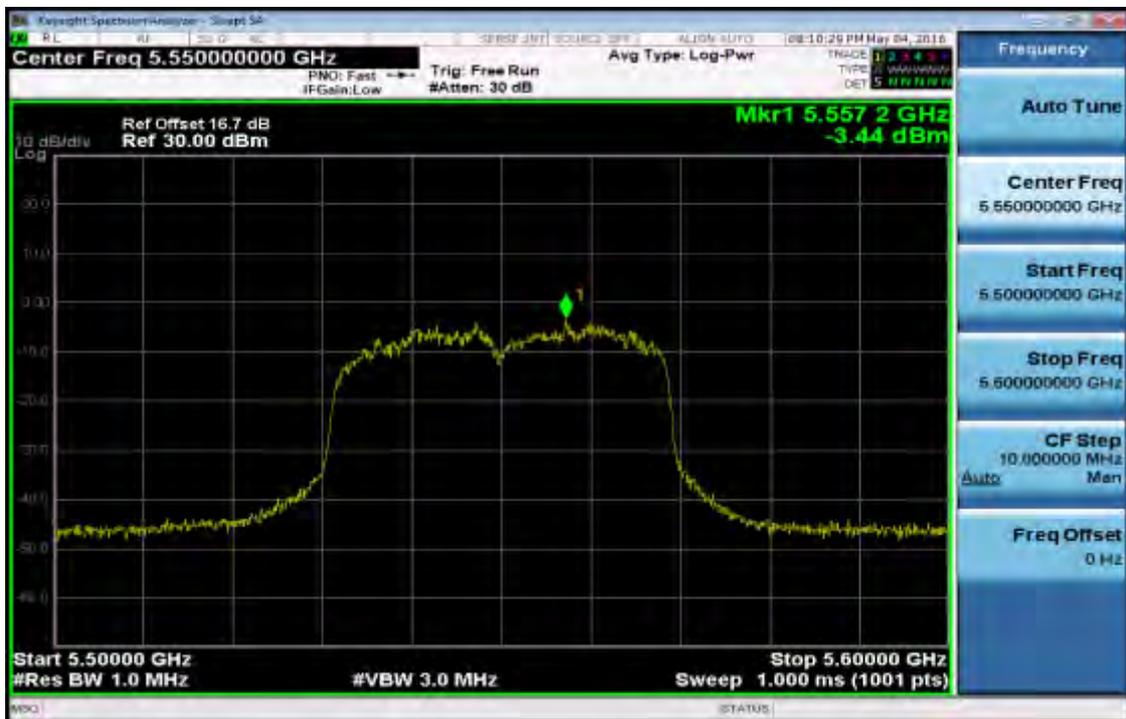
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**802.11n HT40, 5470~5725 MHz**  
**Peak Power Spectral Density Data Plot (CH Low 5510 MHz)**



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



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**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)**



**802.11ac VHT80, 5470~5725 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
*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 SAC-III					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESC17	100760	05/11/2015	05/10/2016
Spectrum Analyzer	Agilent	E4446A	MY51100003	01/28/2016	01/27/2017
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	08/10/2015	08/09/2016
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	07/02/2015	07/01/2016
Low Loss Cable	Huber Suhner	966 TX	1	01/02/2016	01/01/2017

Note: N.C.R refers to Not Calibrated Required.

SGS SAC-III					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/10/2016	05/09/2017

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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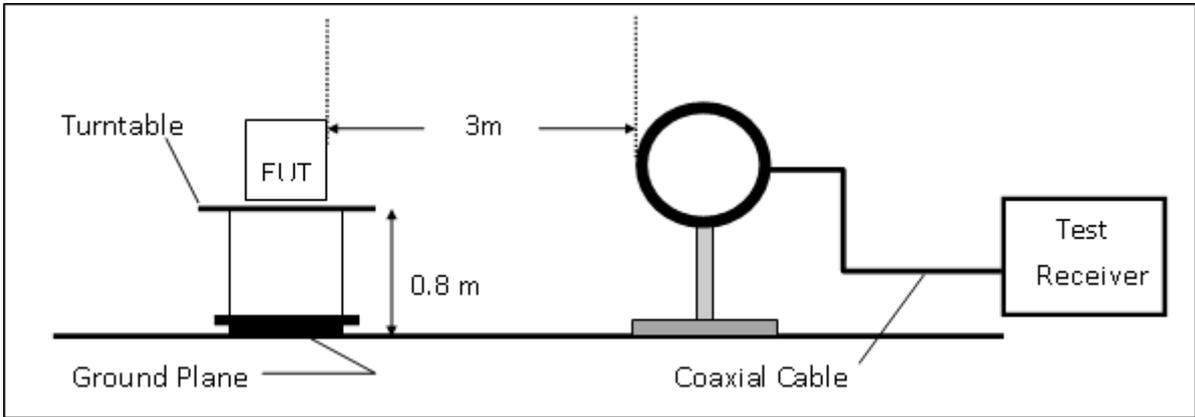
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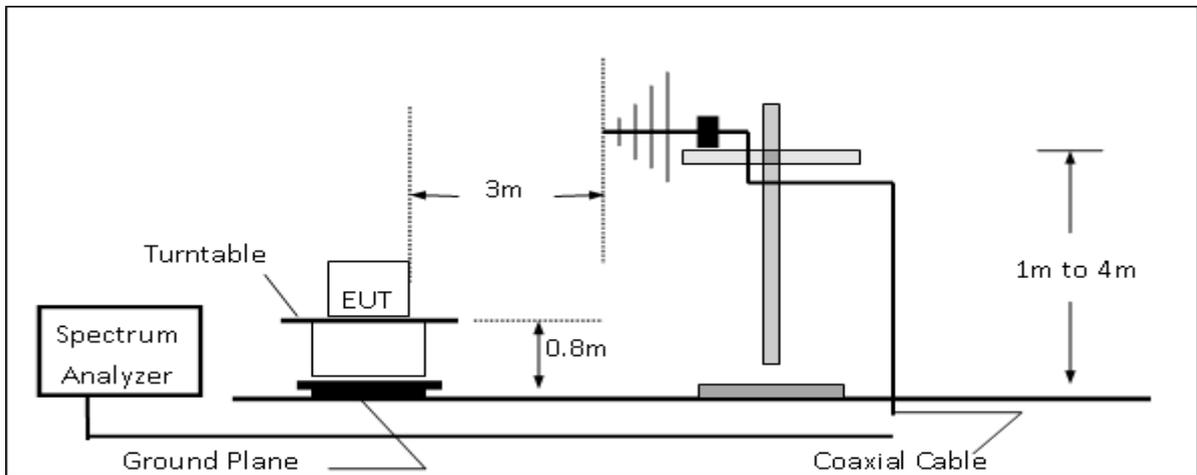
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### 11.3 Test SET-UP

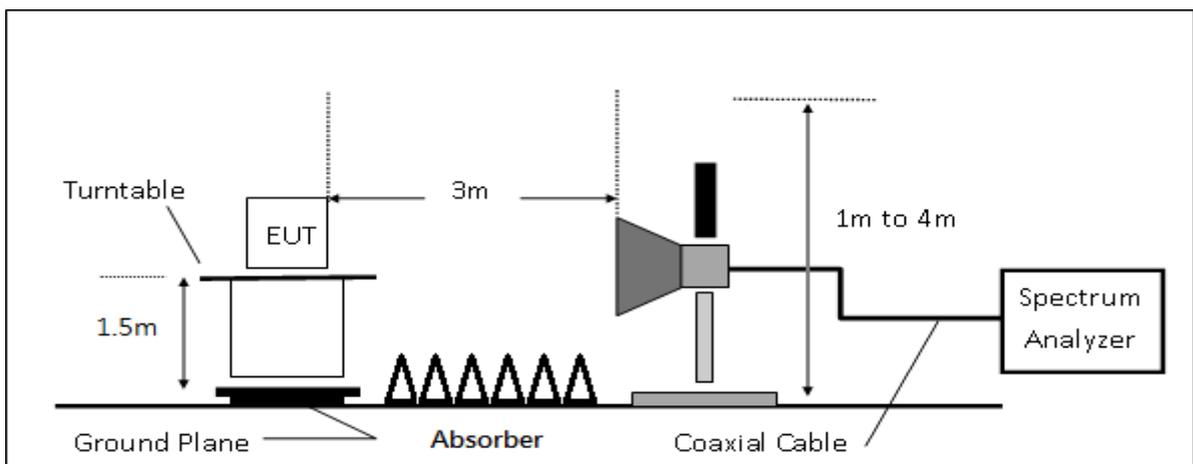
#### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



#### (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**

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

Note: WPC wireless charging functions are implemented in field strength of spurious radiation measurement.

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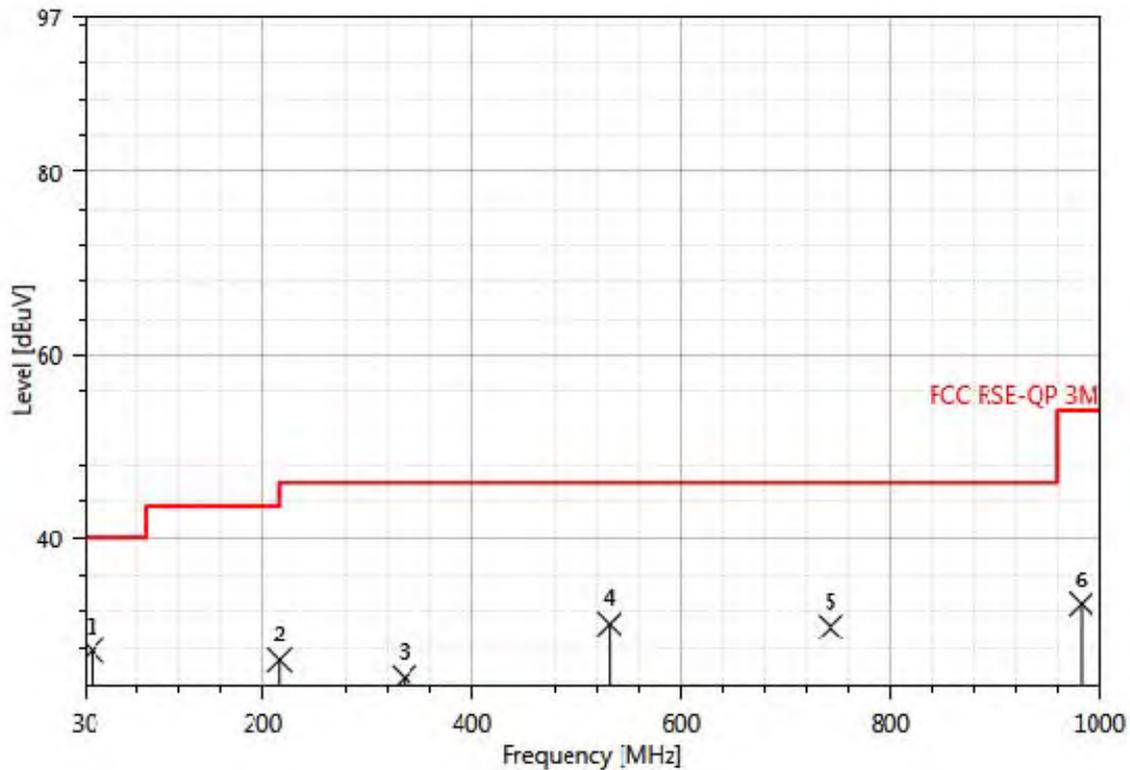
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### Radiated Spurious Emission Measurement Result

#### Below 1GHz Worst-Case Data:

#### 802.11a 5150~5250 MHz

Operation Mode :	802.11aB1	Test Date :	05/04/2016 11:17:01
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
36.79	S	Peak	27.70	36.54	-8.84	40.00	-12.30
216.24	S	Peak	26.69	36.12	-9.43	46.00	-19.31
335.55	S	Peak	24.80	30.13	-5.32	46.00	-21.20
531.49	S	Peak	30.65	32.22	-1.57	46.00	-15.35
742.95	S	Peak	30.31	28.03	2.28	46.00	-15.69
982.54	S	Peak	32.79	26.76	6.02	54.00	-21.21

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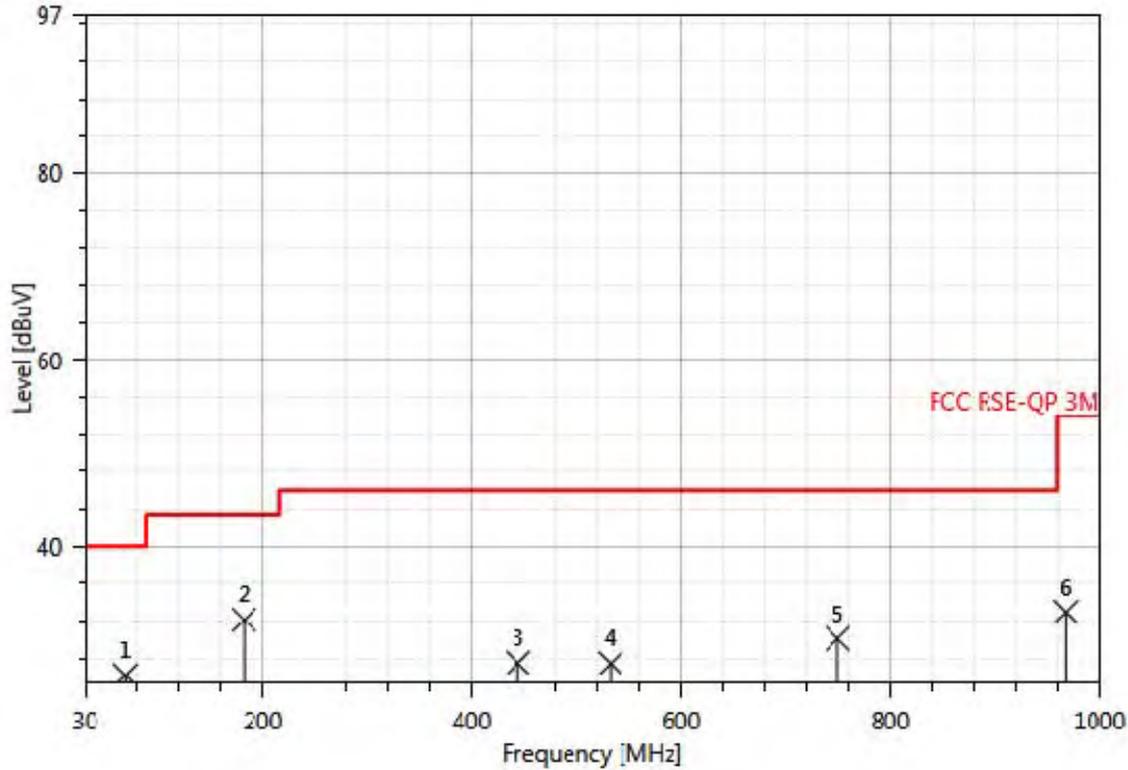
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Operation Mode : 802.11aB1      Test Date : 05/04/2016 11:17:02  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
68.80	S	Peak	26.21	36.19	-9.98	40.00	-13.79
182.29	S	Peak	32.14	40.95	-8.82	43.50	-11.36
444.19	S	Peak	27.53	30.75	-3.22	46.00	-18.47
532.46	S	Peak	27.48	29.15	-1.68	46.00	-18.52
749.74	S	Peak	30.12	27.40	2.72	46.00	-15.88
967.99	S	Peak	32.98	26.88	6.10	54.00	-21.02

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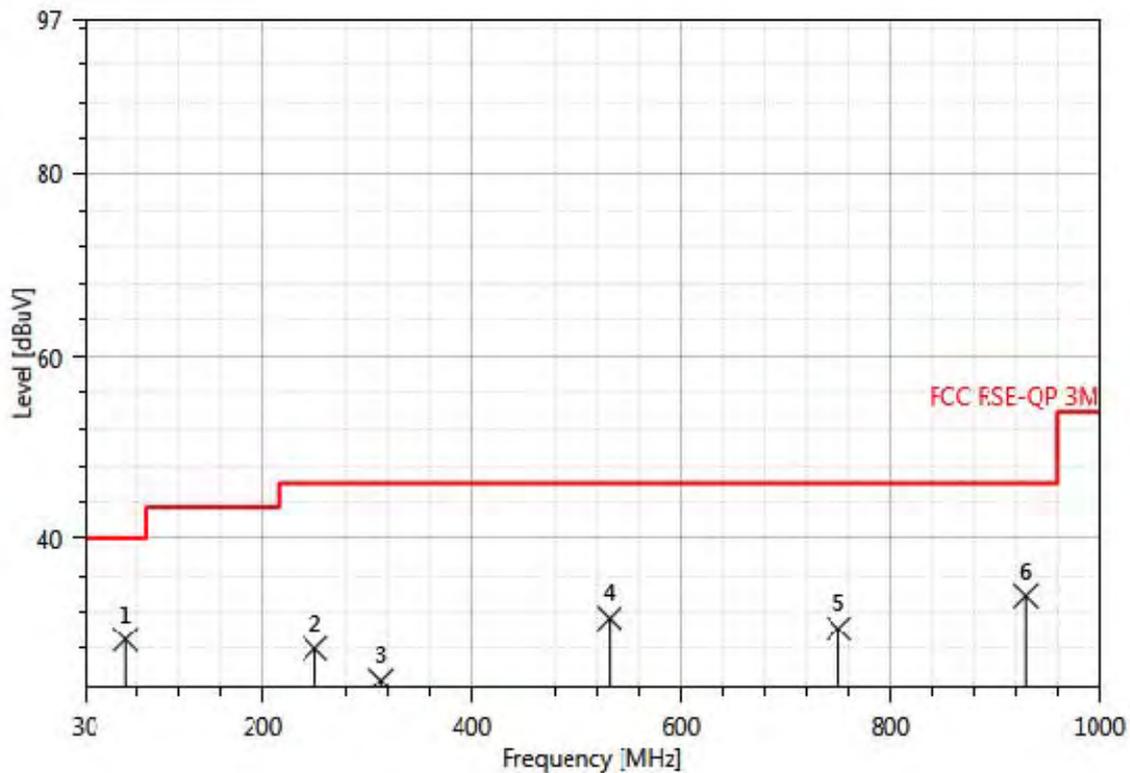
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### 802.11a 5250~5350 MHz

Operation Mode :	802.11aB2	Test Date :	05/04/2016 11:17:03
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
68.80	S	Peak	28.93	38.92	-9.98	40.00	-11.07
250.19	S	Peak	27.94	35.87	-7.93	46.00	-18.06
313.24	S	Peak	24.47	30.01	-5.55	46.00	-21.53
531.49	S	Peak	31.28	32.85	-1.57	46.00	-14.72
750.71	S	Peak	30.14	27.38	2.76	46.00	-15.86
929.19	S	Peak	33.68	28.43	5.25	46.00	-12.32

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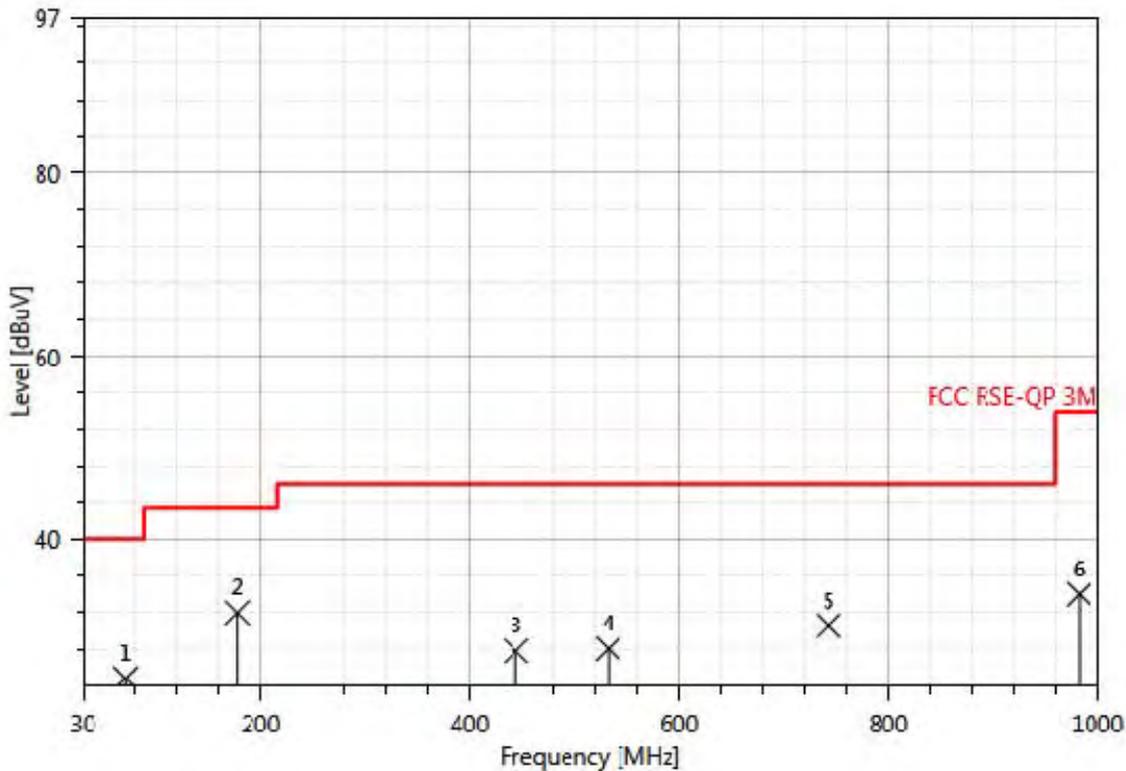
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Operation Mode :	802.11aB2	Test Date :	05/04/2016 11:17:04
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
70.74	S	Peak	24.84	35.26	-10.42	40.00	-15.16
177.44	S	Peak	32.01	40.47	-8.46	43.50	-11.49
444.19	S	Peak	27.82	31.04	-3.22	46.00	-18.18
532.46	S	Peak	28.06	29.74	-1.68	46.00	-17.94
742.95	S	Peak	30.59	28.32	2.28	46.00	-15.41
982.54	S	Peak	34.00	27.98	6.02	54.00	-20.00

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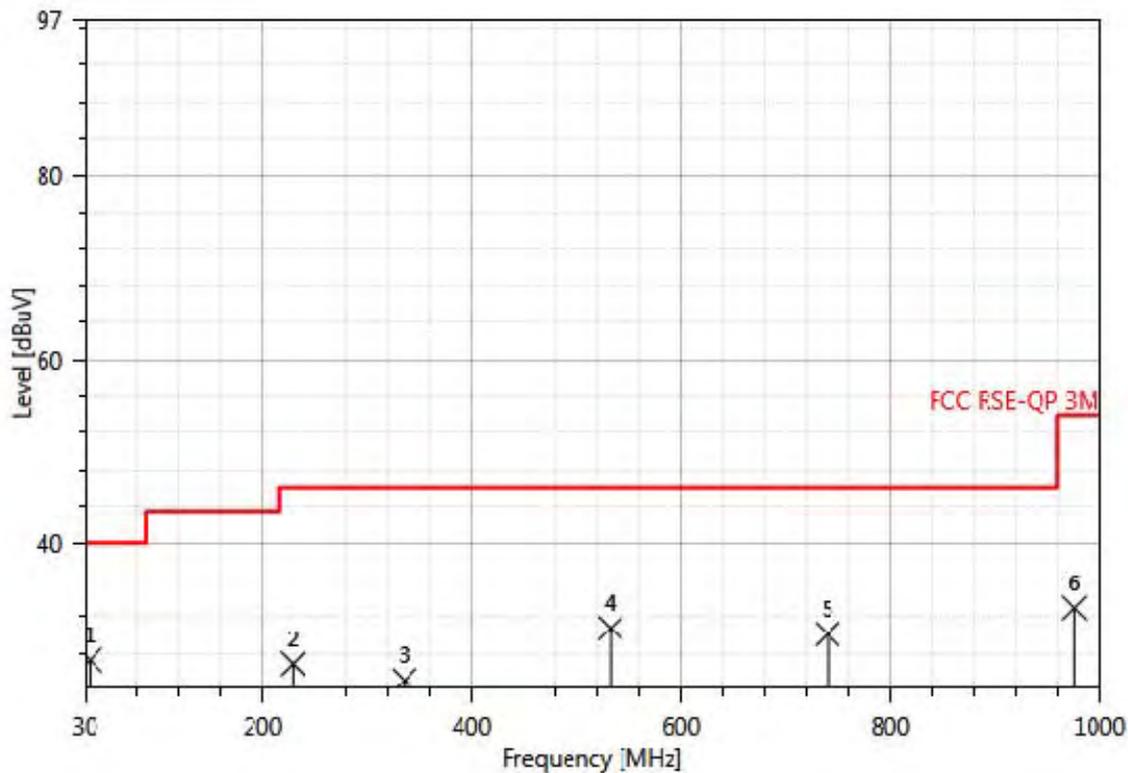
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### 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	05/04/2016 11:17:05
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
34.85	S	Peak	27.32	36.32	-9.00	40.00	-12.68
228.85	S	Peak	26.91	35.91	-9.00	46.00	-19.09
335.55	S	Peak	25.10	30.42	-5.32	46.00	-20.90
532.46	S	Peak	30.77	32.45	-1.68	46.00	-15.23
740.04	S	Peak	30.14	28.11	2.03	46.00	-15.86
975.75	S	Peak	32.98	26.76	6.21	54.00	-21.02

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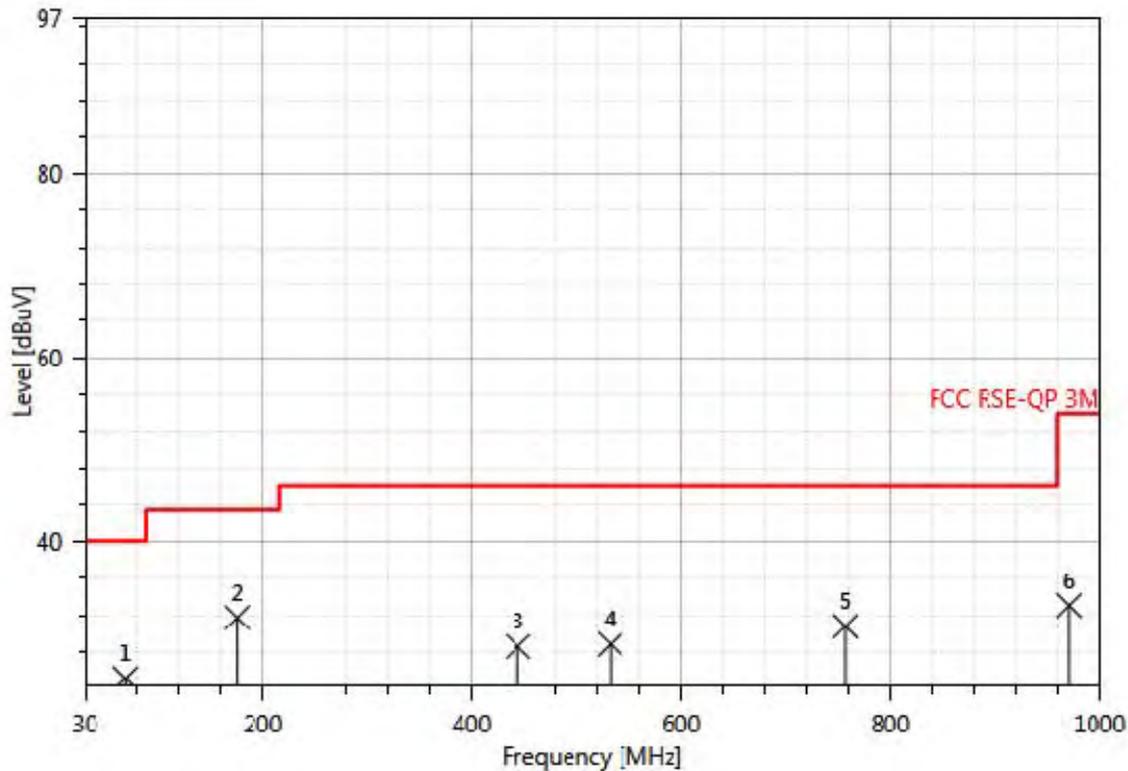
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Operation Mode :	802.11aB3	Test Date :	05/04/2016 11:17:06
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
68.80	S	Peak	25.12	35.10	-9.98	40.00	-14.88
175.50	S	Peak	31.72	39.93	-8.21	43.50	-11.78
444.19	S	Peak	28.57	31.79	-3.22	46.00	-17.43
532.46	S	Peak	28.82	30.50	-1.68	46.00	-17.18
757.50	S	Peak	30.77	27.76	3.01	46.00	-15.23
970.90	S	Peak	33.03	26.75	6.28	54.00	-20.97

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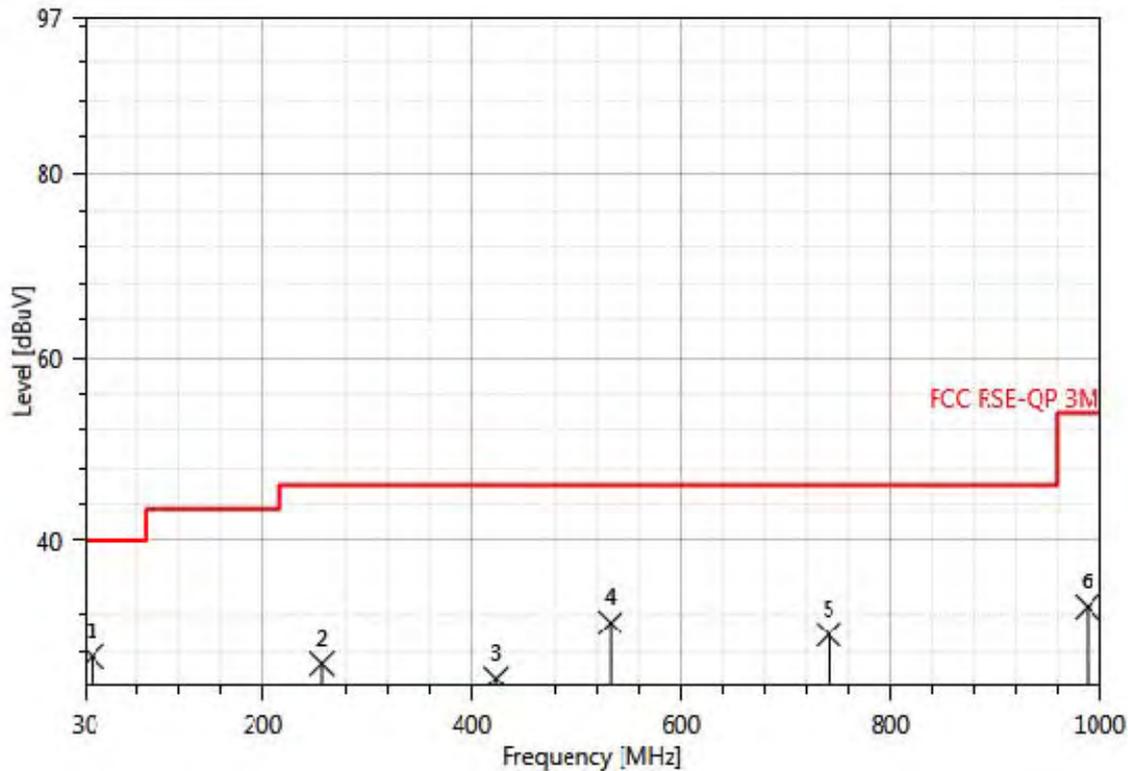
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### 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	05/04/2016 11:17:07
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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	27.43	36.26	-8.84	40.00	-12.57
256.98	S	Peak	26.68	34.09	-7.42	46.00	-19.32
422.85	S	Peak	25.05	28.22	-3.17	46.00	-20.95
532.46	S	Peak	31.09	32.77	-1.68	46.00	-14.91
741.01	S	Peak	29.82	27.66	2.16	46.00	-16.18
988.36	S	Peak	32.82	26.81	6.00	54.00	-21.18

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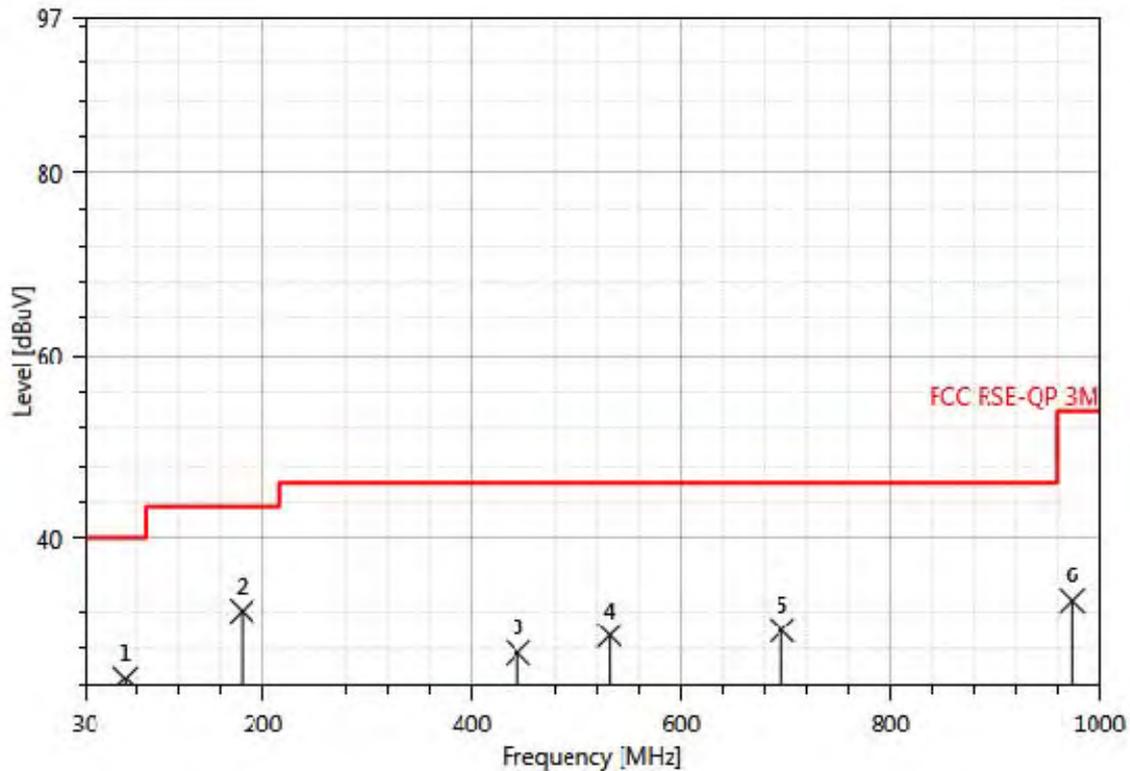
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Operation Mode : 802.11aB4      Test Date : 05/04/2016 11:17:08  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
68.80	S	Peak	24.68	34.67	-9.98	40.00	-15.32
180.35	S	Peak	32.04	40.72	-8.68	43.50	-11.46
444.19	S	Peak	27.50	30.72	-3.22	46.00	-18.50
531.49	S	Peak	29.37	30.93	-1.57	46.00	-16.63
696.39	S	Peak	29.94	28.58	1.36	46.00	-16.06
973.81	S	Peak	33.15	27.00	6.16	54.00	-20.85

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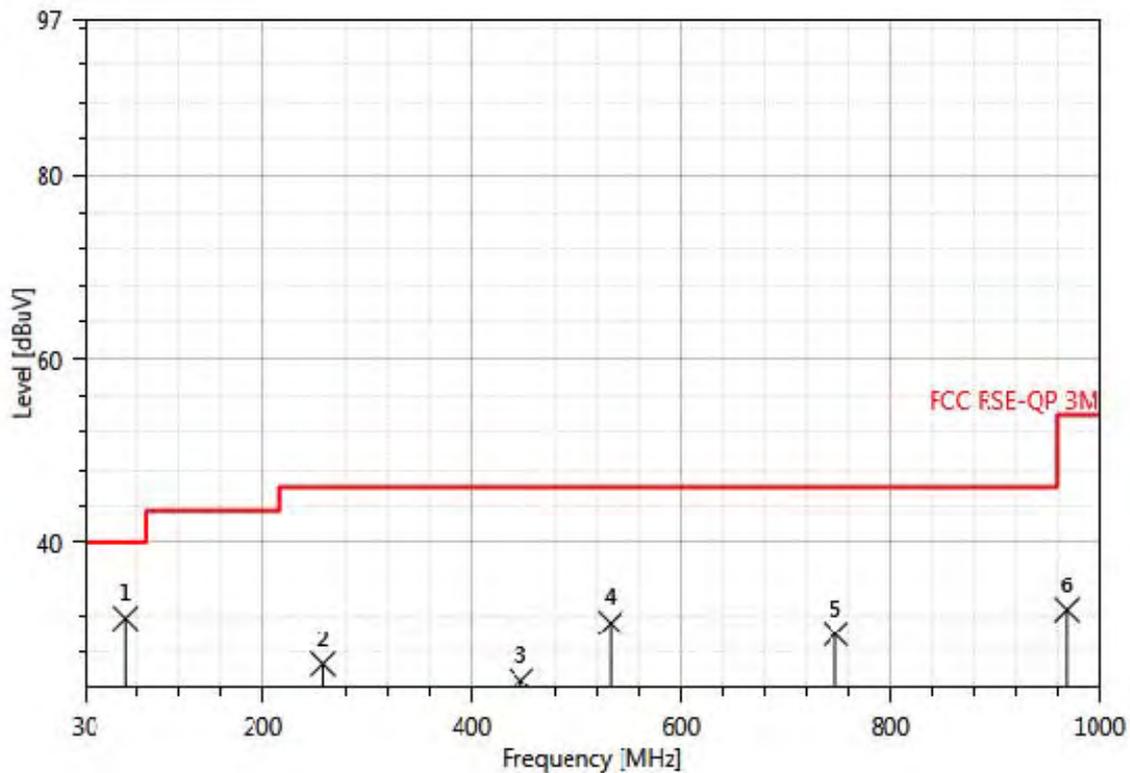
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### 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	05/04/2016 11:17:09
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
68.80	S	Peak	31.77	41.76	-9.98	40.00	-8.23
257.95	S	Peak	26.83	34.20	-7.38	46.00	-19.17
447.10	S	Peak	25.01	27.96	-2.94	46.00	-20.99
532.46	S	Peak	31.25	32.93	-1.68	46.00	-14.75
747.80	S	Peak	30.06	27.56	2.50	46.00	-15.94
968.96	S	Peak	32.69	26.47	6.21	54.00	-21.31

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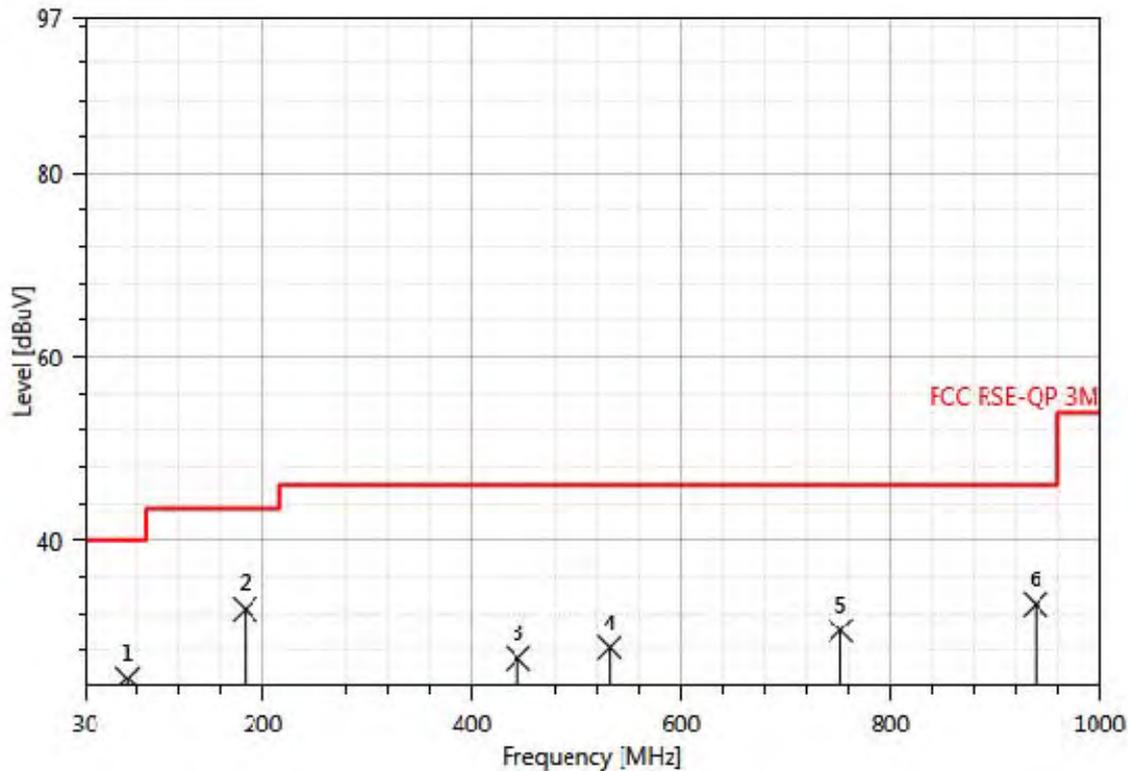
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Operation Mode : 802.11ac80B1      Test Date : 05/04/2016 11:17:10  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
70.74	S	Peak	24.98	35.39	-10.42	40.00	-15.02
183.26	S	Peak	32.53	41.43	-8.90	43.50	-10.97
444.19	S	Peak	27.17	30.39	-3.22	46.00	-18.83
531.49	S	Peak	28.32	29.89	-1.57	46.00	-17.68
752.65	S	Peak	30.18	27.52	2.66	46.00	-15.82
938.89	S	Peak	33.04	27.74	5.30	46.00	-12.96

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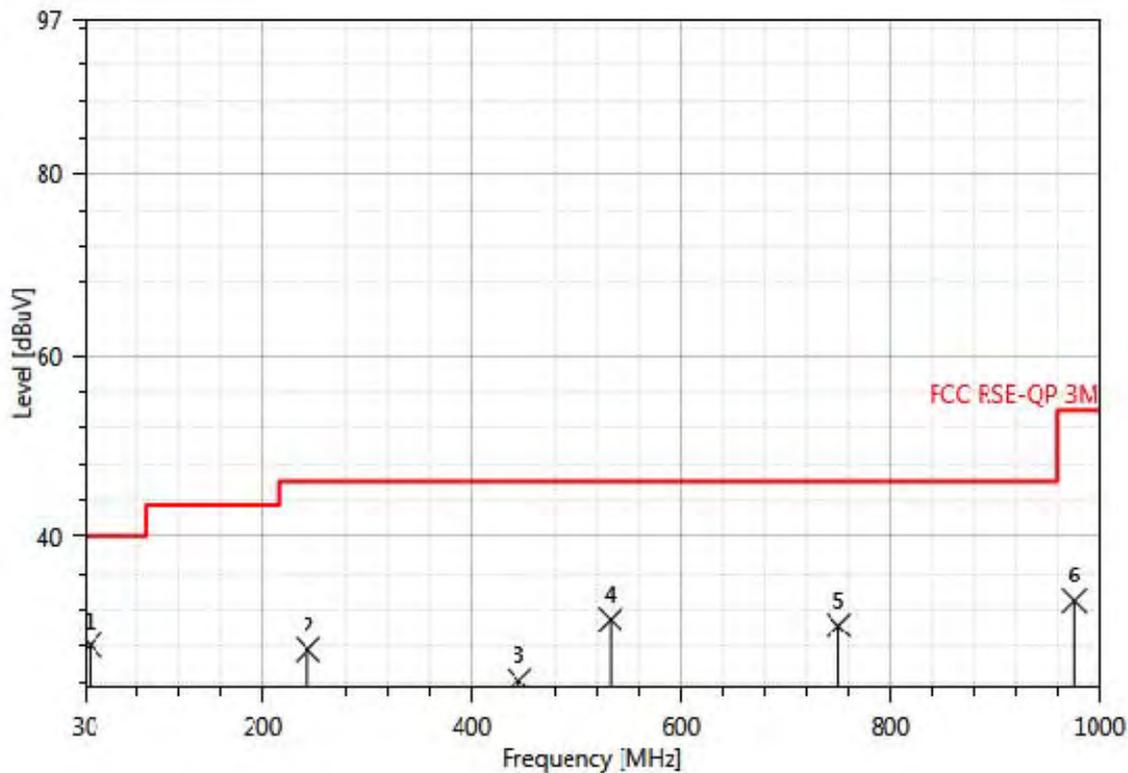
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### 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	05/04/2016 11:17:11
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
34.85	S	Peak	28.05	37.05	-9.00	40.00	-11.95
243.40	S	Peak	27.53	35.56	-8.03	46.00	-18.47
445.16	S	Peak	24.19	27.28	-3.09	46.00	-21.81
532.46	S	Peak	30.91	32.59	-1.68	46.00	-15.09
750.71	S	Peak	30.23	27.48	2.76	46.00	-15.77
975.75	S	Peak	32.93	26.72	6.21	54.00	-21.07

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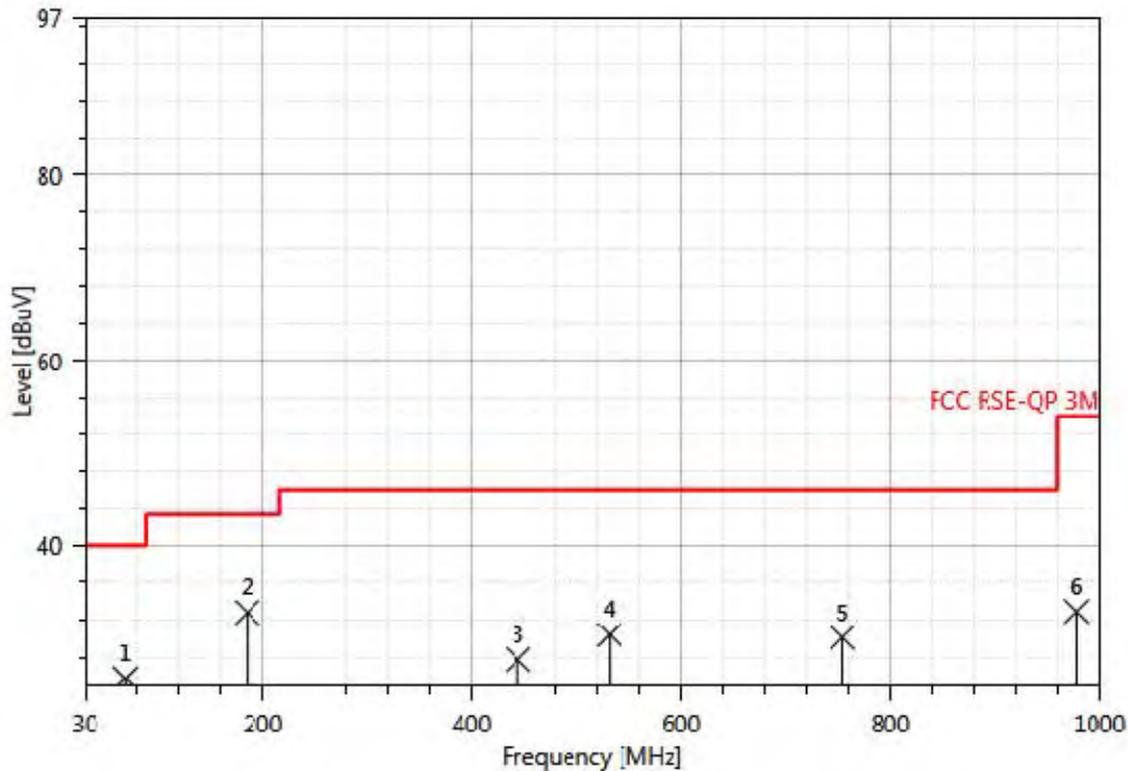
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Operation Mode : 802.11ac80B2      Test Date : 05/04/2016 11:17:12  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
68.80	S	Peak	25.71	35.69	-9.98	40.00	-14.29
185.20	S	Peak	32.81	41.86	-9.06	43.50	-10.69
444.19	S	Peak	27.75	30.97	-3.22	46.00	-18.25
531.49	S	Peak	30.41	31.98	-1.57	46.00	-15.59
754.59	S	Peak	30.10	27.40	2.70	46.00	-15.90
977.69	S	Peak	32.91	26.61	6.30	54.00	-21.09

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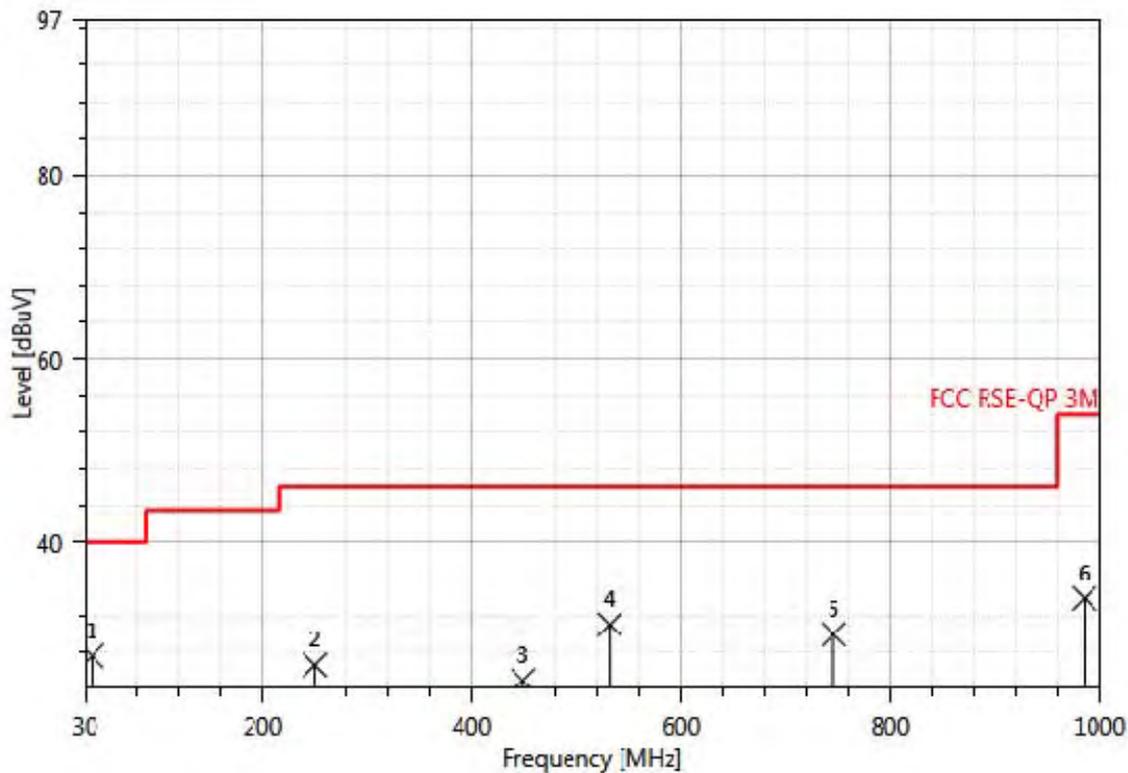
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### 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	05/04/2016 11:17:13
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
36.79	S	Peak	27.63	36.46	-8.84	40.00	-12.37
250.19	S	Peak	26.65	34.58	-7.93	46.00	-19.35
449.04	S	Peak	24.96	27.92	-2.96	46.00	-21.04
531.49	S	Peak	31.05	32.62	-1.57	46.00	-14.95
745.86	S	Peak	29.97	27.67	2.30	46.00	-16.03
985.45	S	Peak	33.88	27.83	6.05	54.00	-20.12

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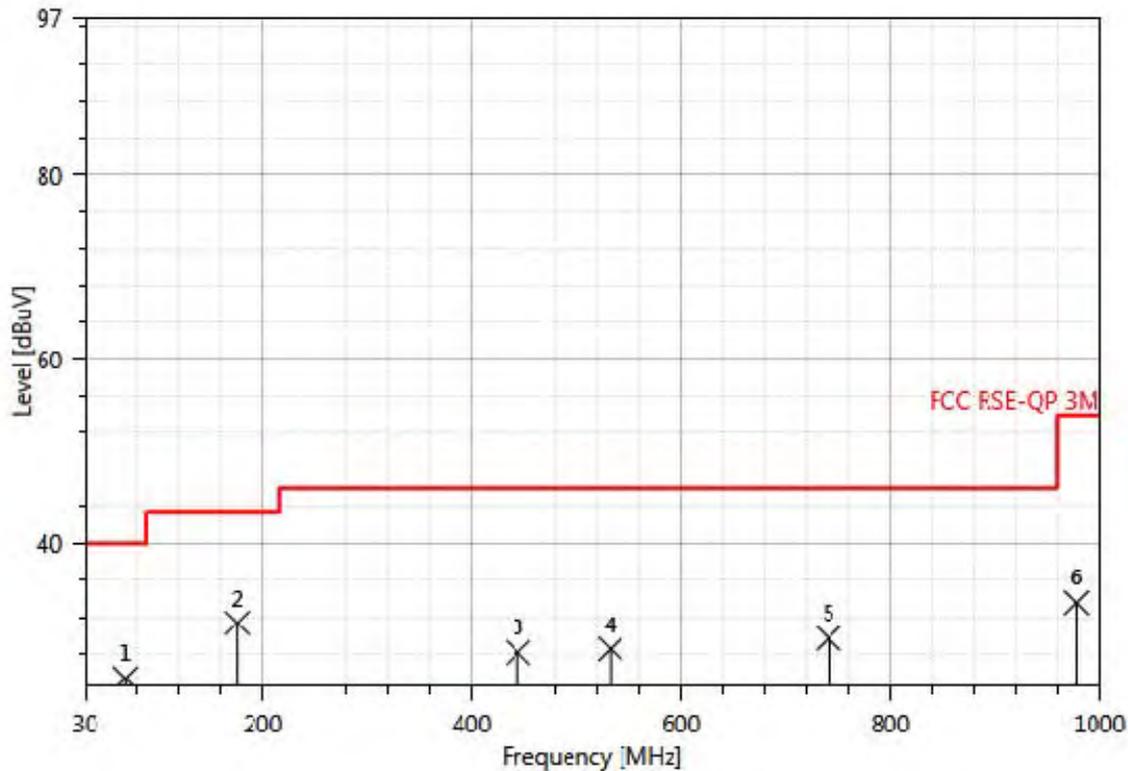
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Operation Mode : 802.11ac80B3      Test Date : 05/04/2016 11:17:14  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
68.80	S	Peak	25.44	35.42	-9.98	40.00	-14.56
175.50	S	Peak	31.42	39.63	-8.21	43.50	-12.08
444.19	S	Peak	28.24	31.46	-3.22	46.00	-17.76
532.46	S	Peak	28.61	30.29	-1.68	46.00	-17.39
741.01	S	Peak	29.77	27.61	2.16	46.00	-16.23
977.69	S	Peak	33.61	27.31	6.30	54.00	-20.39

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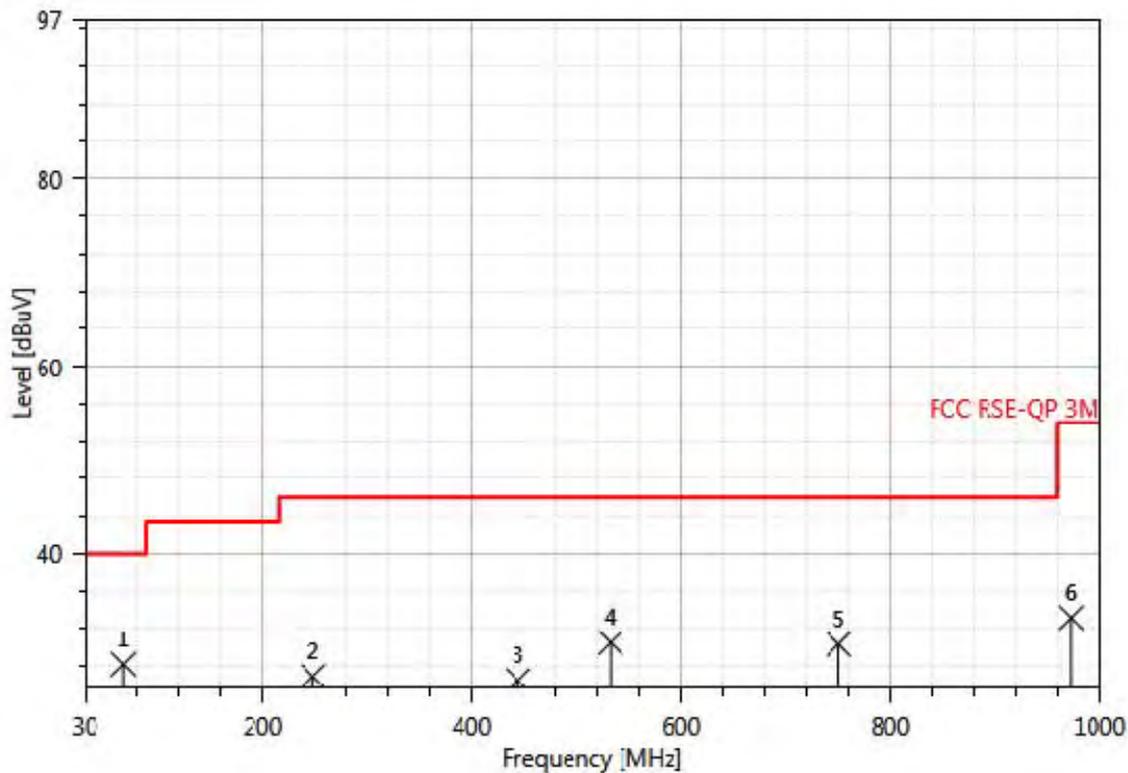
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### 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	05/04/2016 11:17:15
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 61 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 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
66.86	S	Peak	28.24	37.82	-9.58	40.00	-11.76
248.25	S	Peak	26.96	34.95	-7.98	46.00	-19.04
444.19	S	Peak	26.51	29.73	-3.22	46.00	-19.49
532.46	S	Peak	30.53	32.21	-1.68	46.00	-15.47
750.71	S	Peak	30.36	27.61	2.76	46.00	-15.64
972.84	S	Peak	33.18	27.00	6.18	54.00	-20.82

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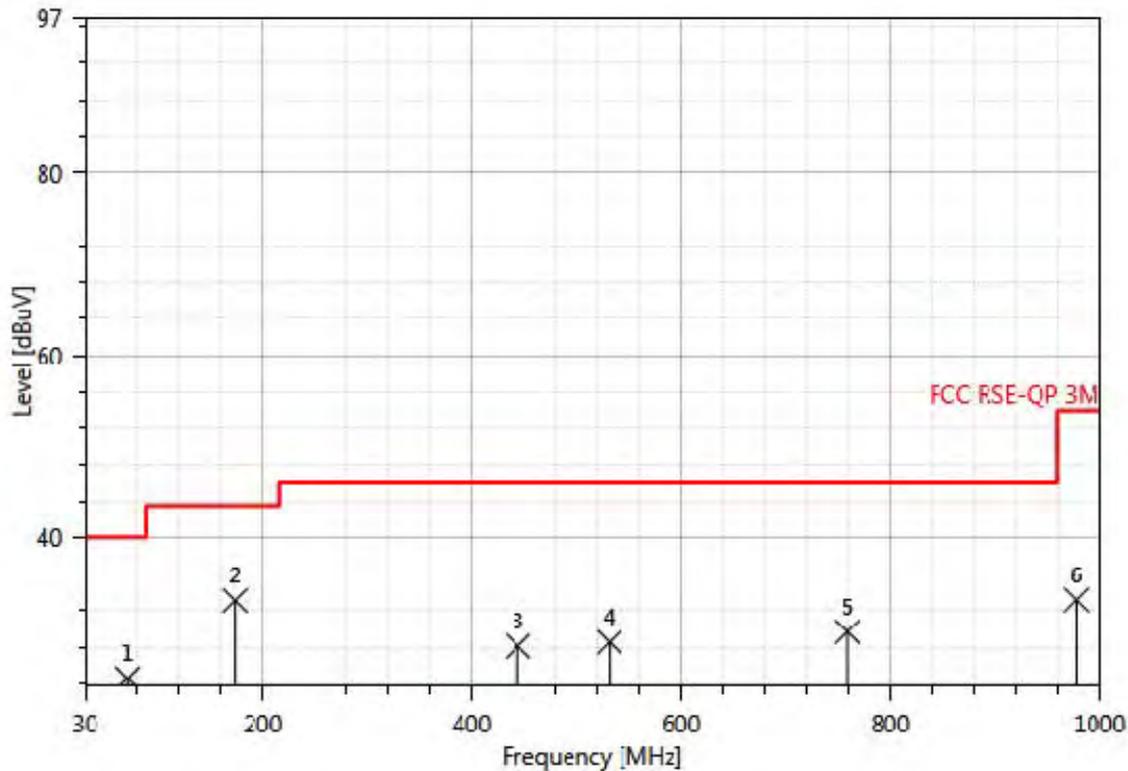
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Operation Mode : 802.11ac80B4      Test Date : 05/04/2016 11:17:16  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 21 deg\_C / 61 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
70.74	S	Peak	24.61	35.02	-10.42	40.00	-15.39
173.56	S	Peak	33.12	41.08	-7.96	43.50	-10.38
444.19	S	Peak	28.13	31.35	-3.22	46.00	-17.87
531.49	S	Peak	28.57	30.13	-1.57	46.00	-17.43
759.44	S	Peak	29.71	26.70	3.01	46.00	-16.29
977.69	S	Peak	33.18	26.87	6.30	54.00	-20.82

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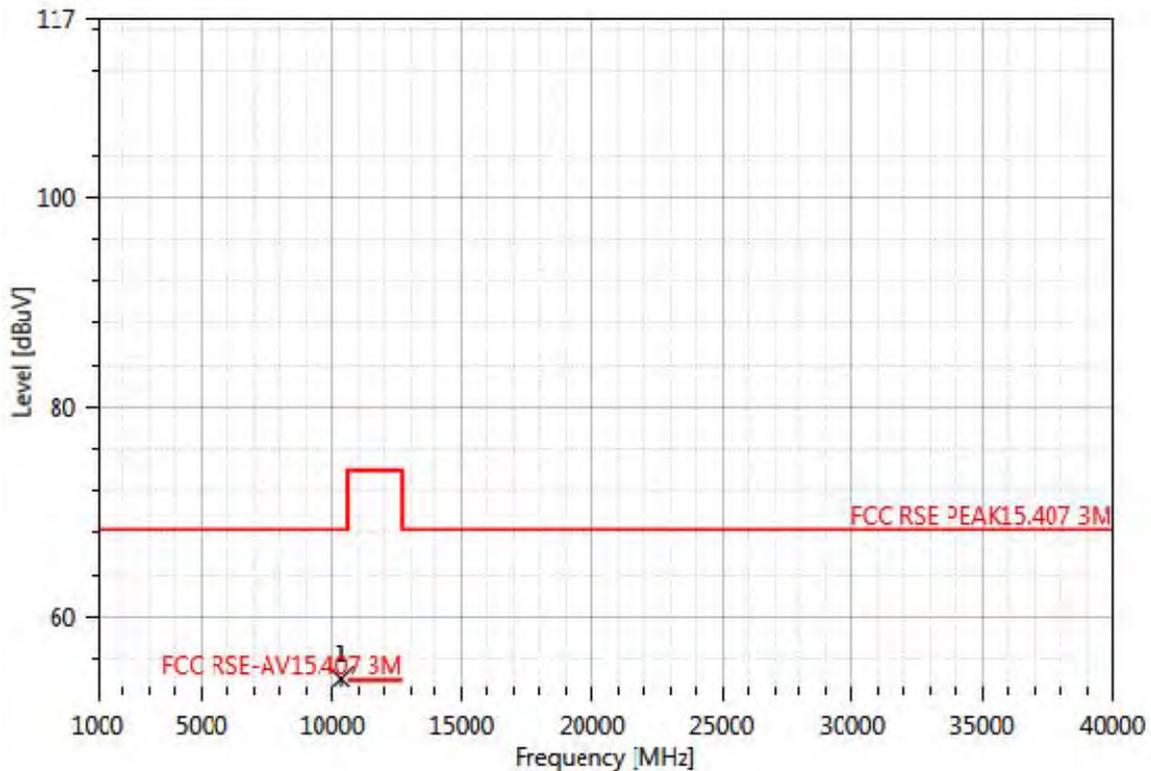
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**Above 1GHz Worst-Case Data:**

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

Operation Mode :	802.11aB1	Test Date :	05/06/2016 09:59:55
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10360.00	H	Peak	54.11	35.81	18.29	68.30	-14.19

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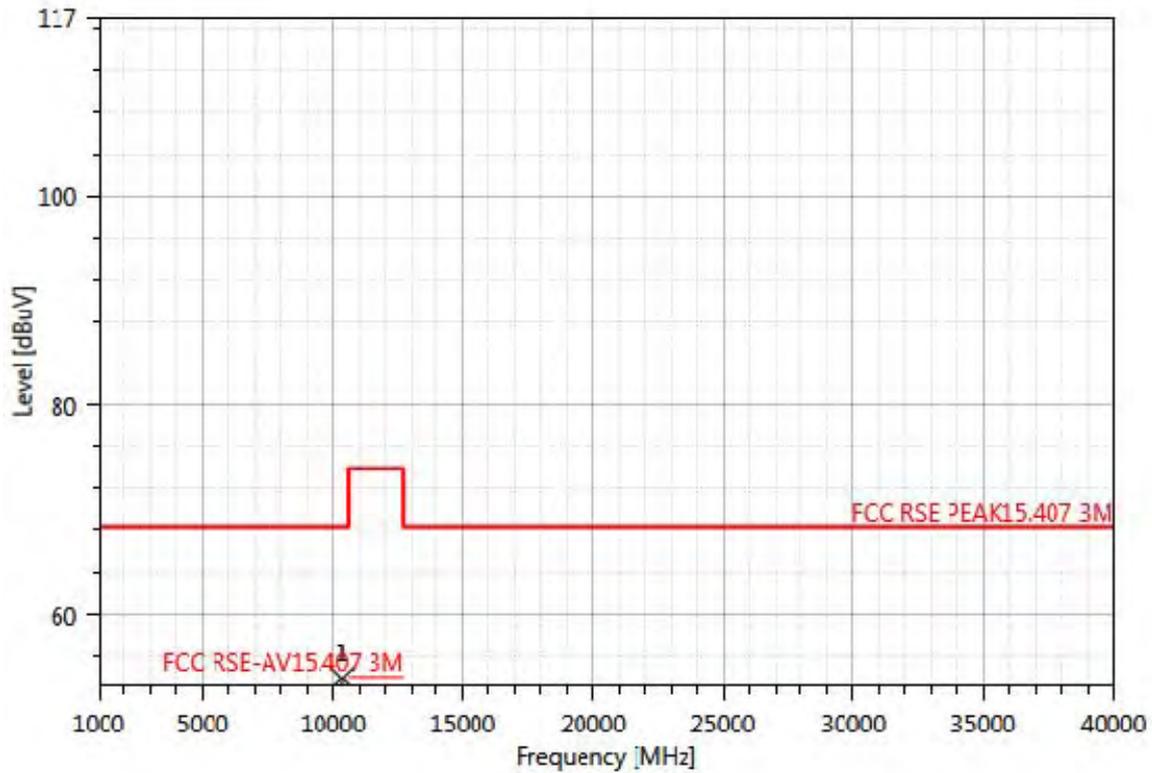
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:00:18
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10360.00	H	Peak	53.92	35.63	18.29	68.30	-14.38

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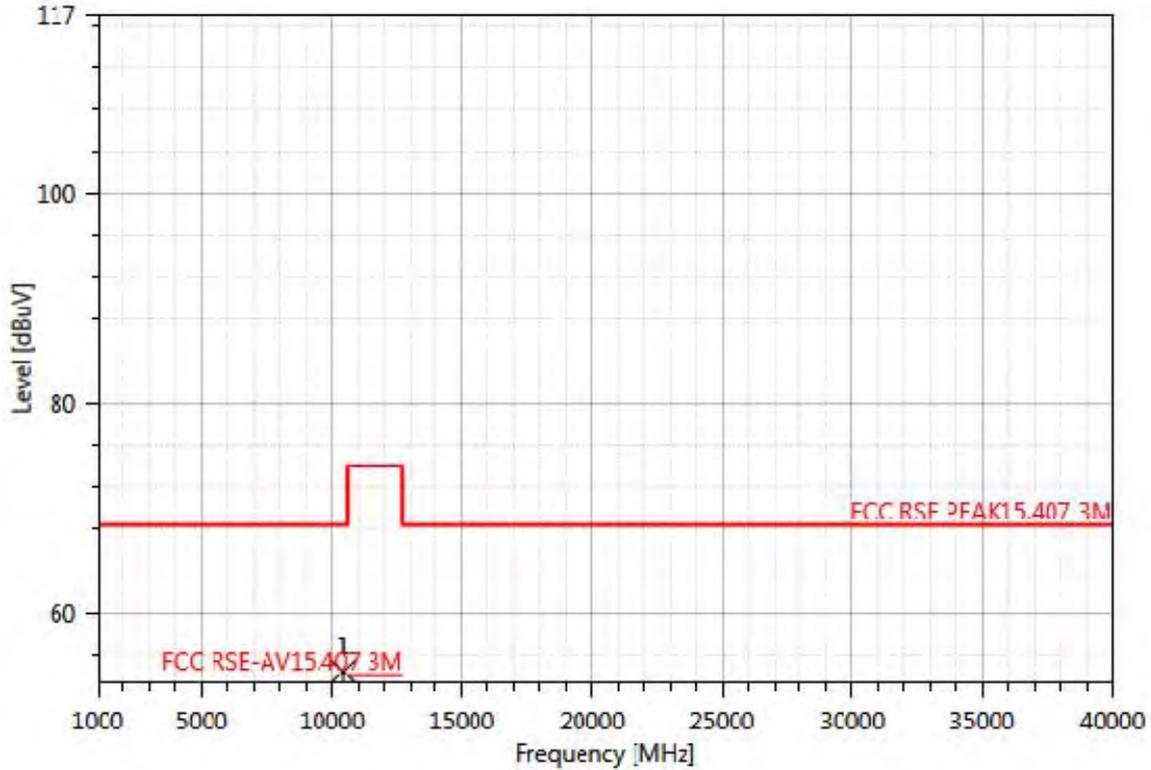
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:10:22
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10440.00	H	Peak	54.36	35.68	18.68	68.30	-13.94

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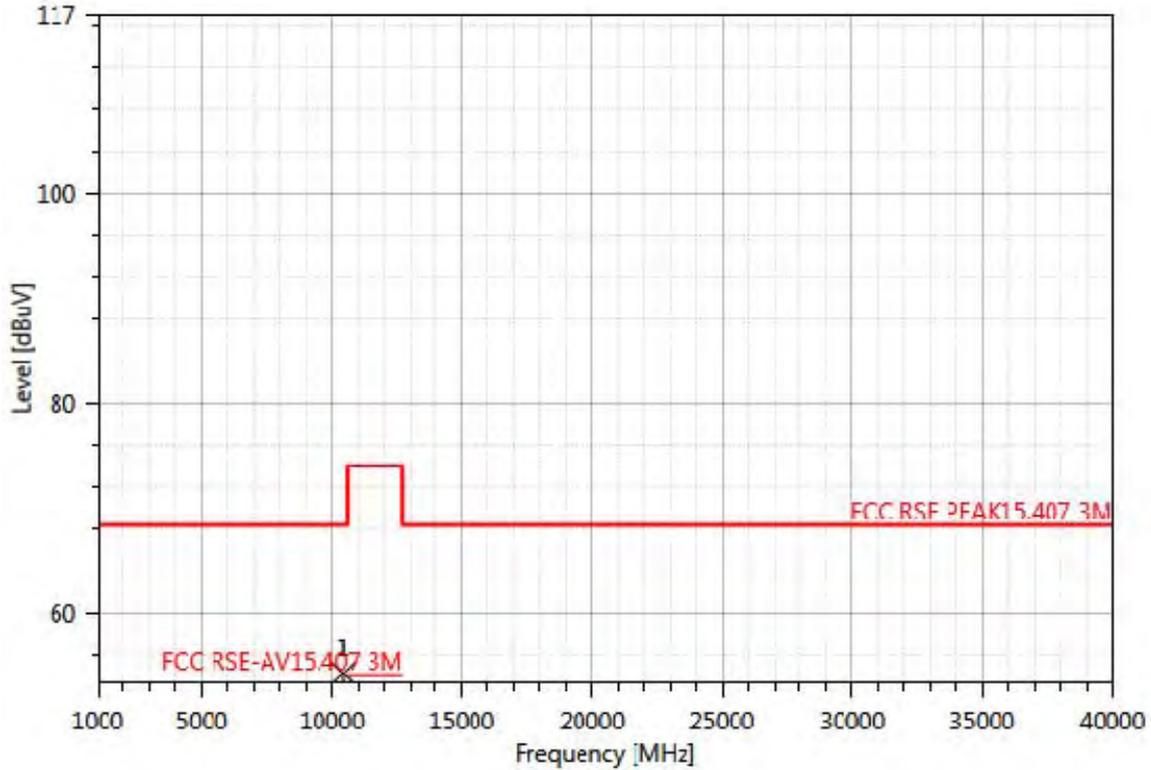
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:10:44
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10440.00	H	Peak	54.18	35.49	18.68	68.30	-14.12

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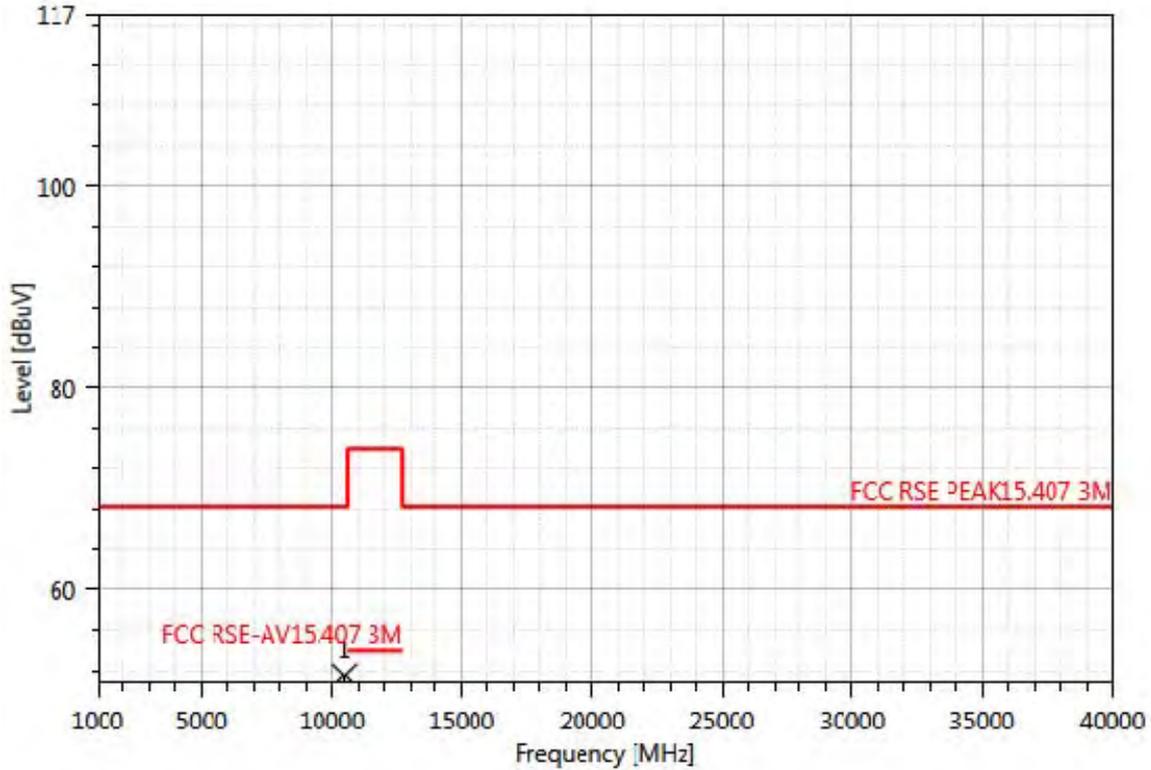
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:23:07
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10480.00	H	Peak	51.55	33.26	18.29	68.30	-16.75

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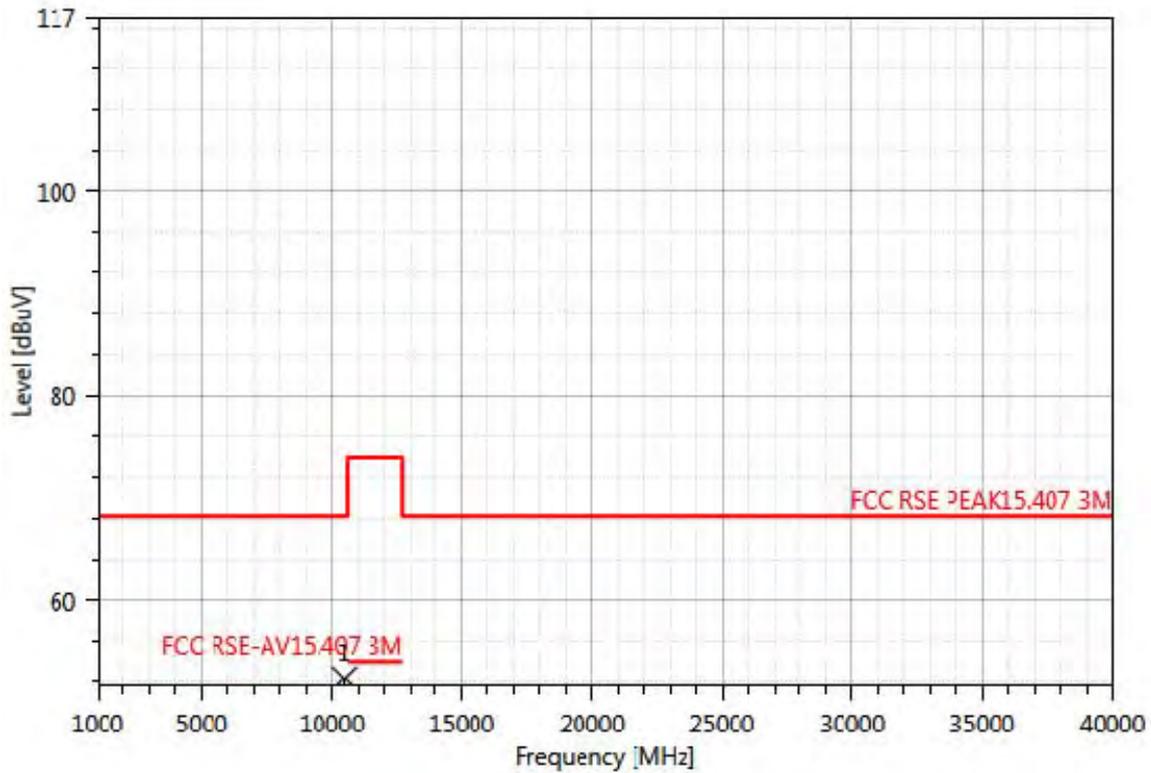
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Operation Mode :	802.11aB1	Test Date :	05/06/2016 10:23:29
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10480.00	H	Peak	52.37	34.08	18.29	68.30	-15.93

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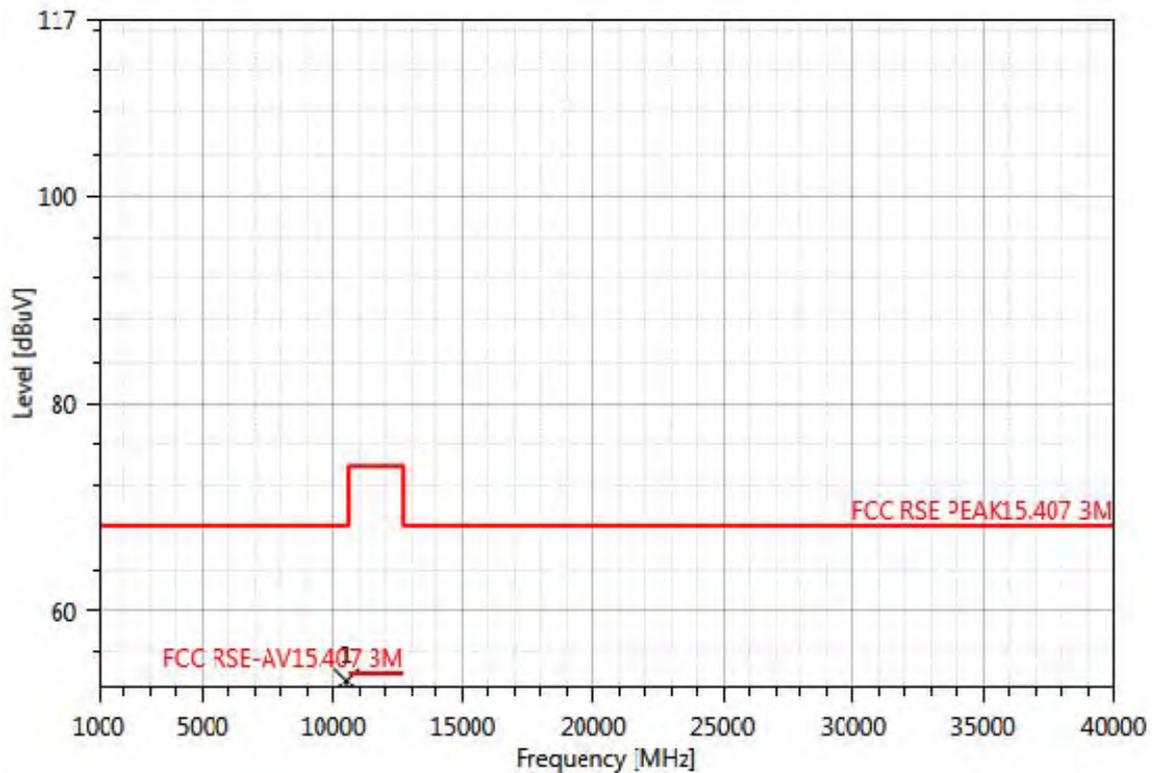
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### Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:28:51
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10520.00	H	Peak	53.29	33.92	19.37	68.30	-15.01

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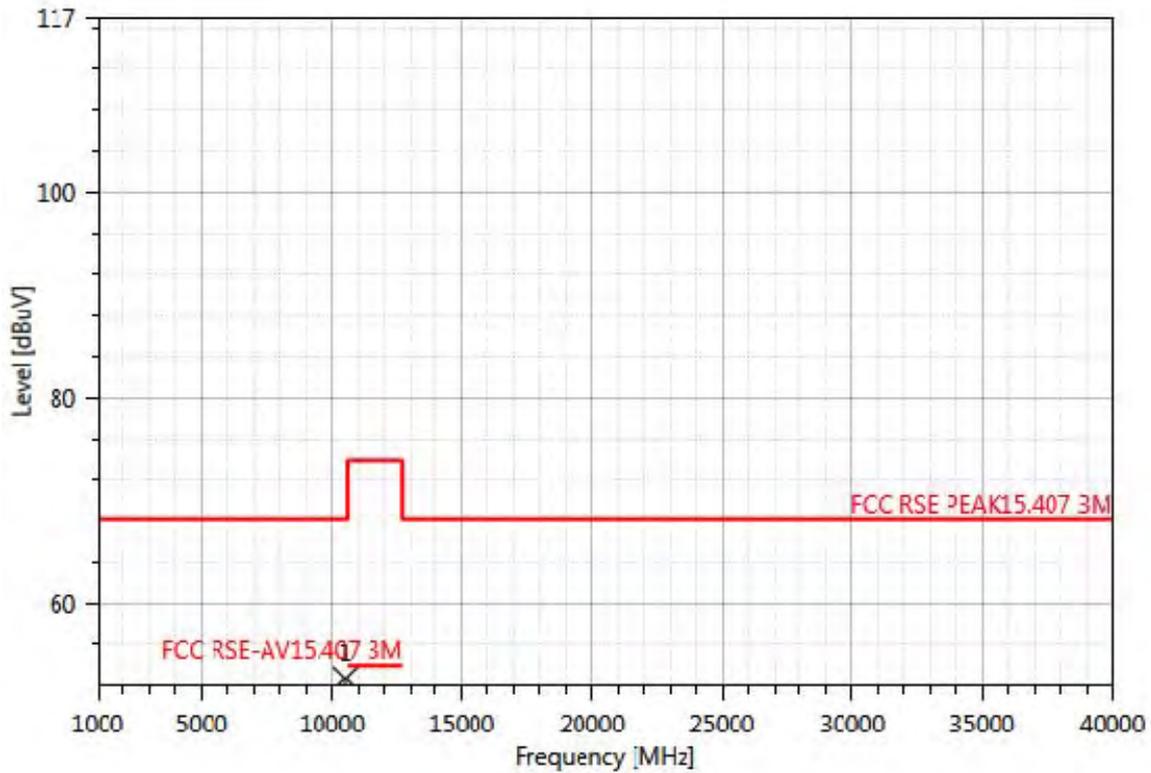
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:29:14
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10520.00	H	Peak	52.75	33.38	19.37	68.30	-15.55

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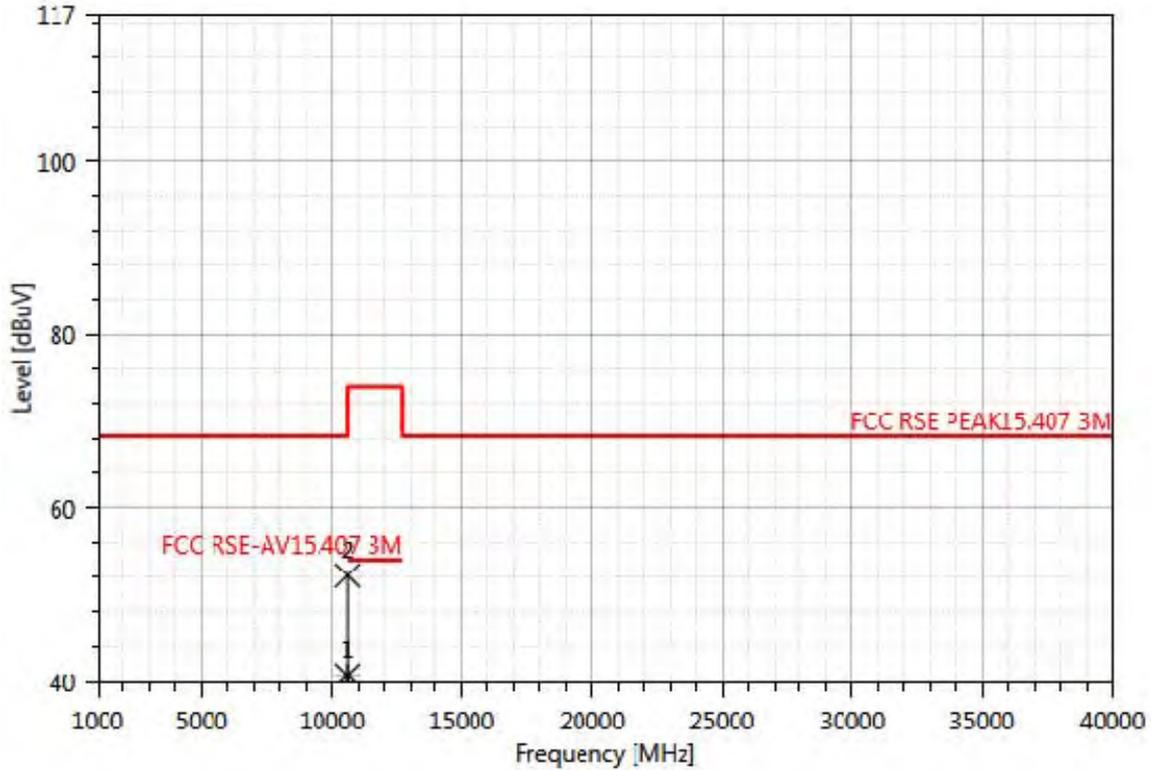
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:33:38
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10600.00	H	Average	40.67	21.76	18.91	54.00	-13.33
10600.00	H	Peak	52.20	33.30	18.91	74.00	-21.80

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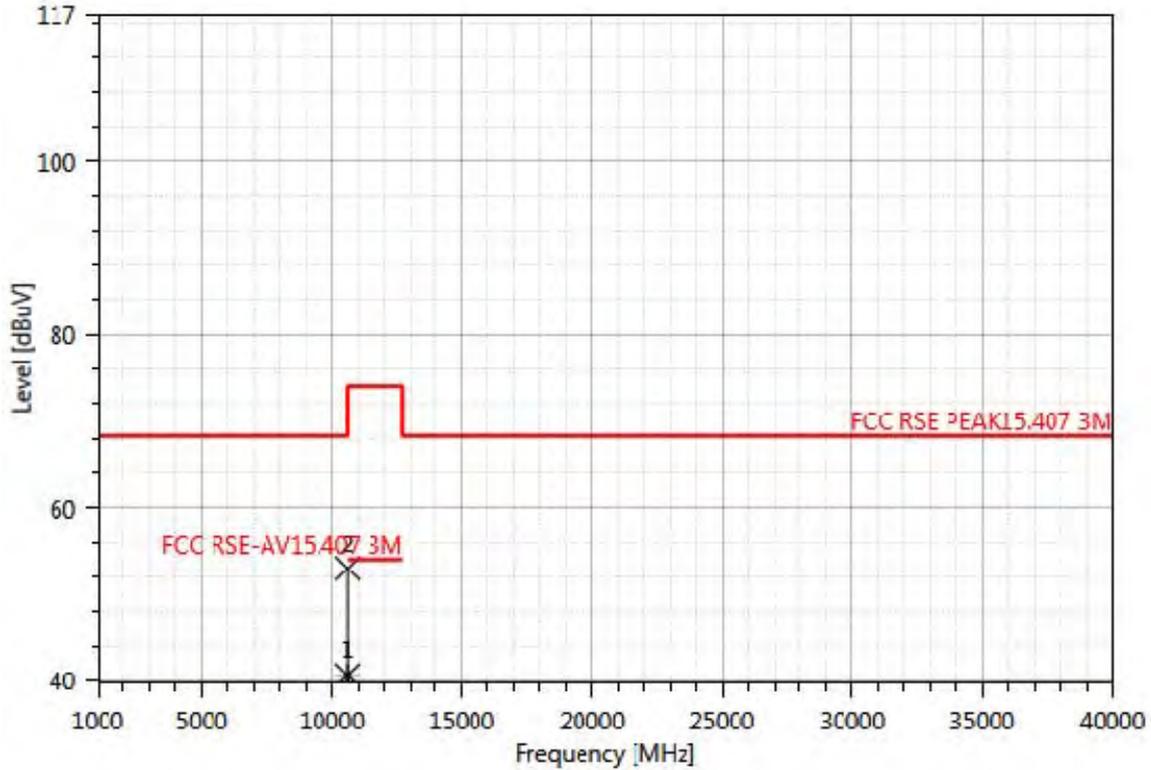
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:34:01
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10600.00	H	Average	40.61	21.70	18.91	54.00	-13.39
10600.00	H	Peak	52.96	34.05	18.91	74.00	-21.04

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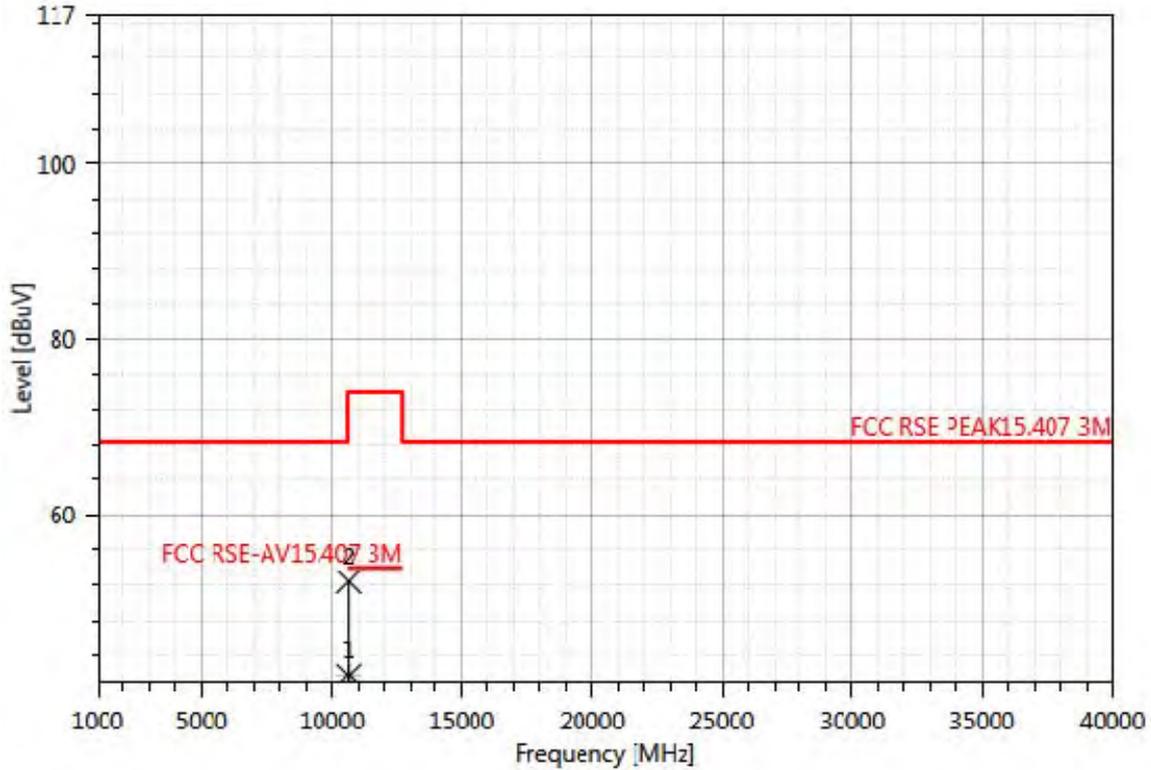
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Operation Mode :	802.11aB2	Test Date :	05/06/2016 10:38:32
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	41.70	22.52	19.18	54.00	-12.30
10640.00	H	Peak	52.37	33.19	19.18	74.00	-21.63

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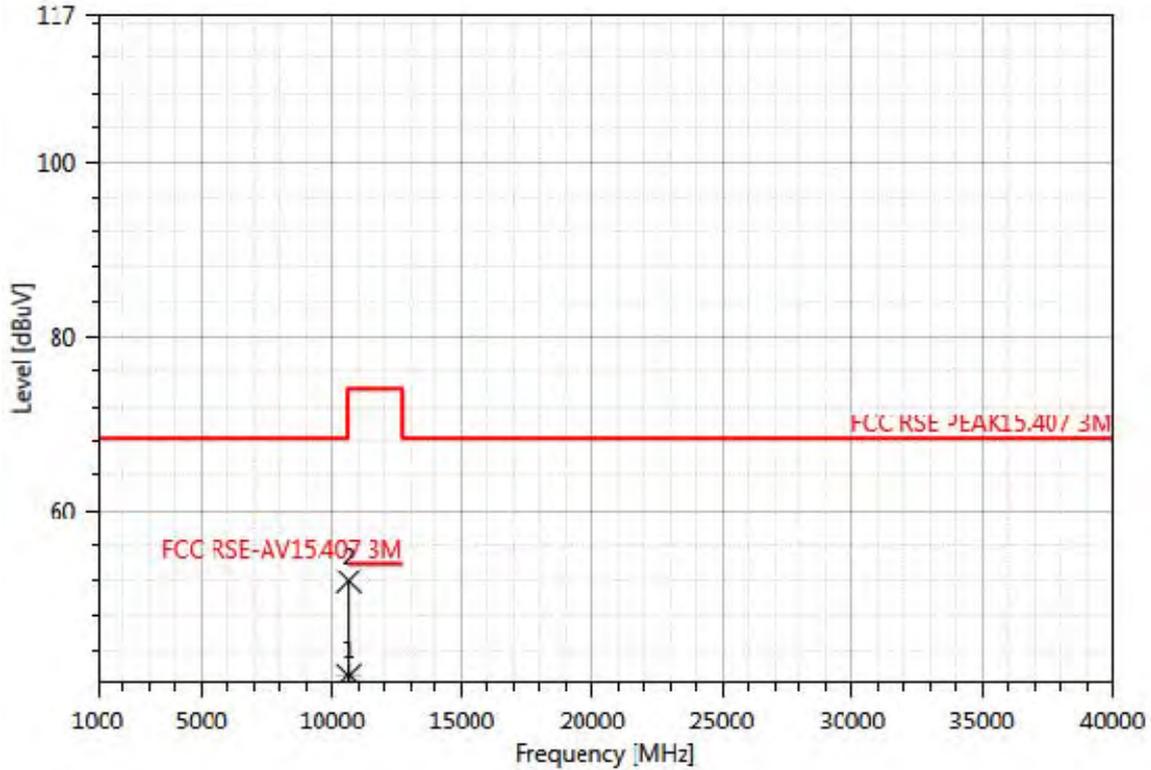
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Operation Mode : 802.11aB2      Test Date : 05/06/2016 10:38:54  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	41.11	21.93	19.18	54.00	-12.89
10640.00	H	Peak	51.91	32.73	19.18	74.00	-22.09

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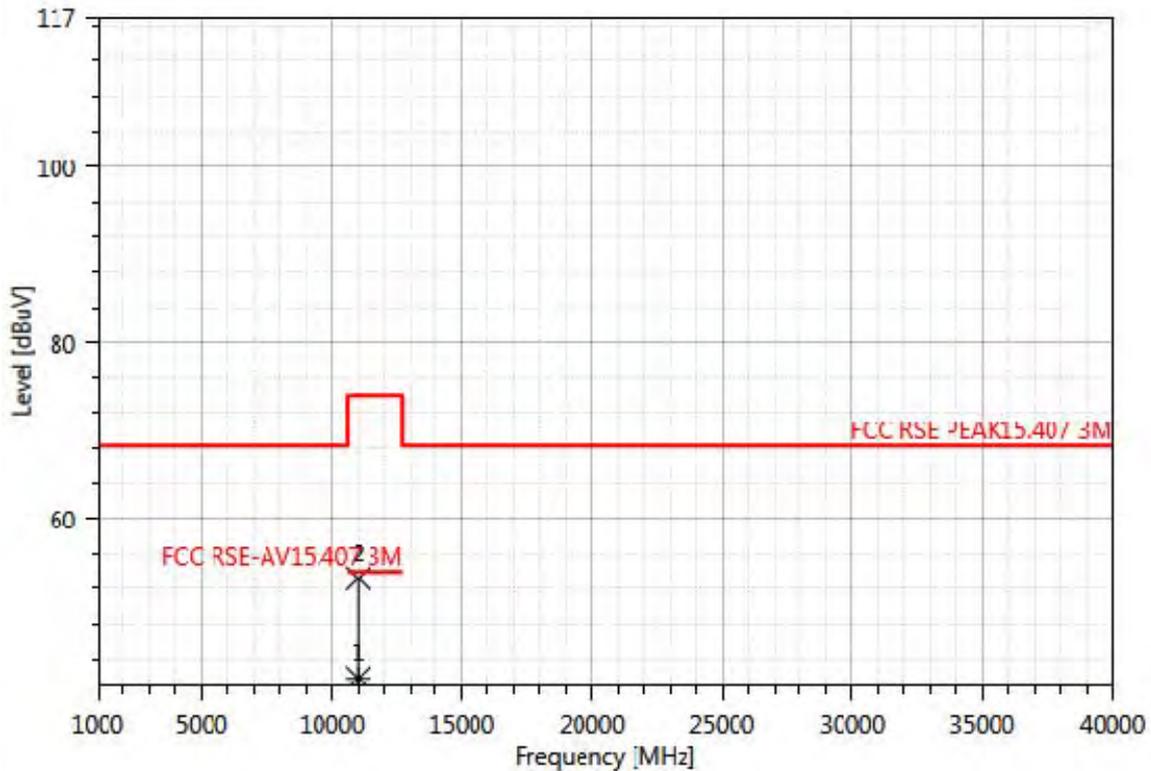
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### Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:33:29
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	41.84	21.67	20.17	54.00	-12.16
11000.00	H	Peak	53.21	33.04	20.17	74.00	-20.79

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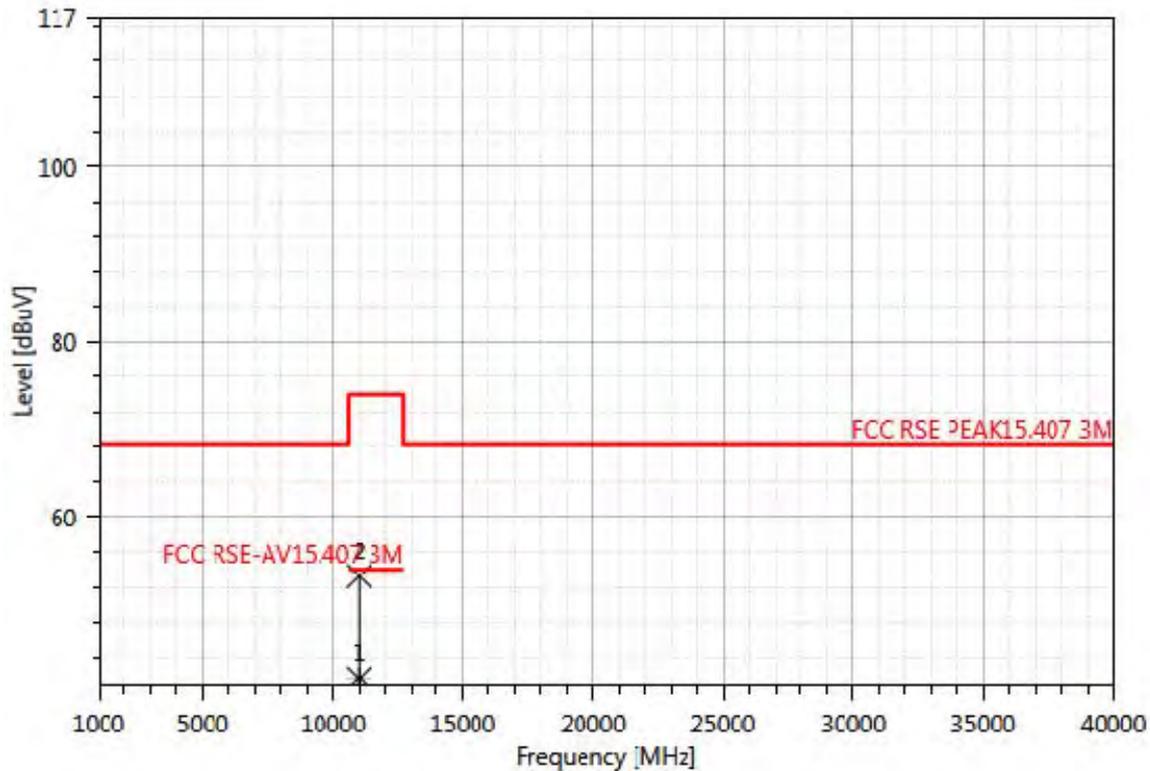
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:33:51
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	41.59	21.42	20.17	54.00	-12.41
11000.00	H	Peak	53.25	33.08	20.17	74.00	-20.75

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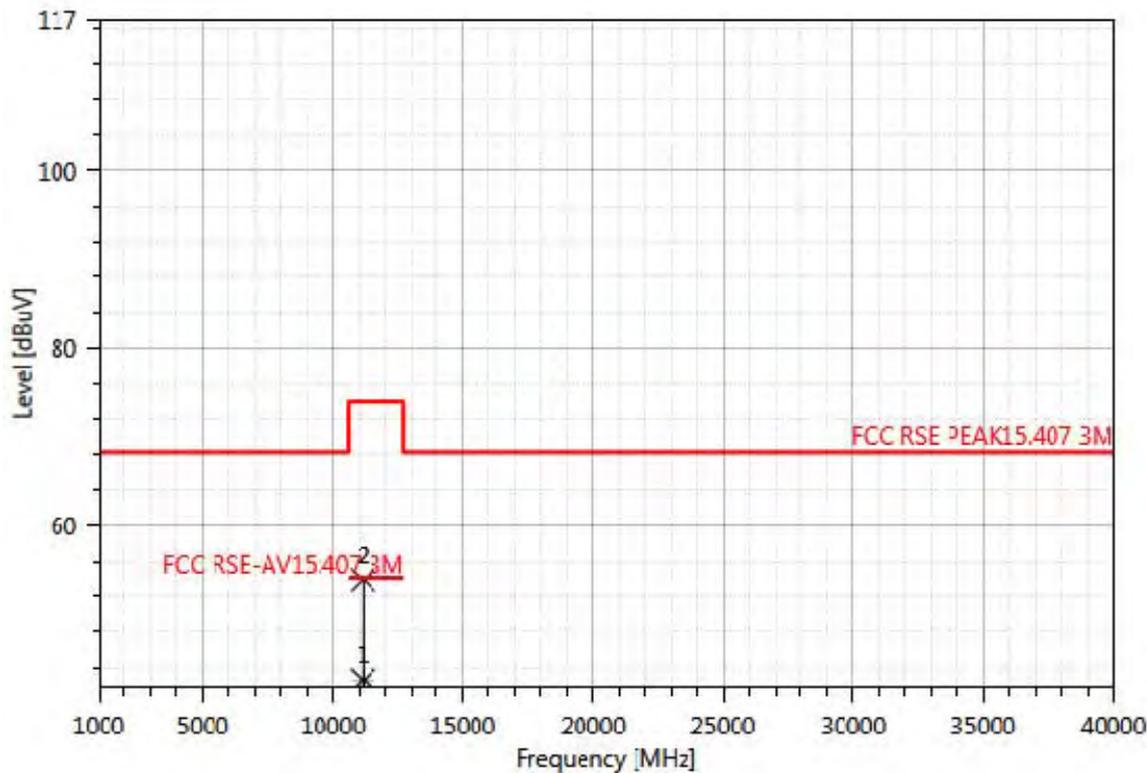
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:41:56
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11160.00	H	Average	42.59	22.14	20.45	54.00	-11.41
11160.00	H	Peak	53.89	33.44	20.45	74.00	-20.11

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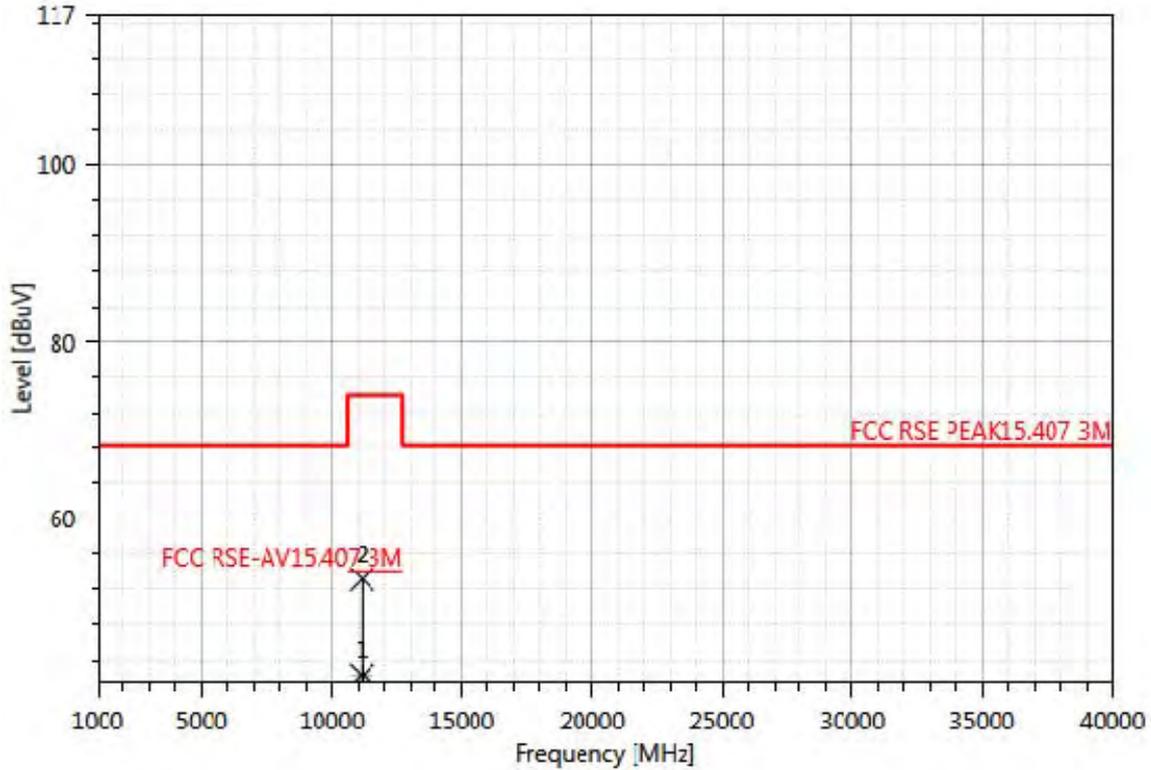
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:42:19
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	42.29	21.84	20.45	54.00	-11.71
11160.00	H	Peak	53.15	32.70	20.45	74.00	-20.85

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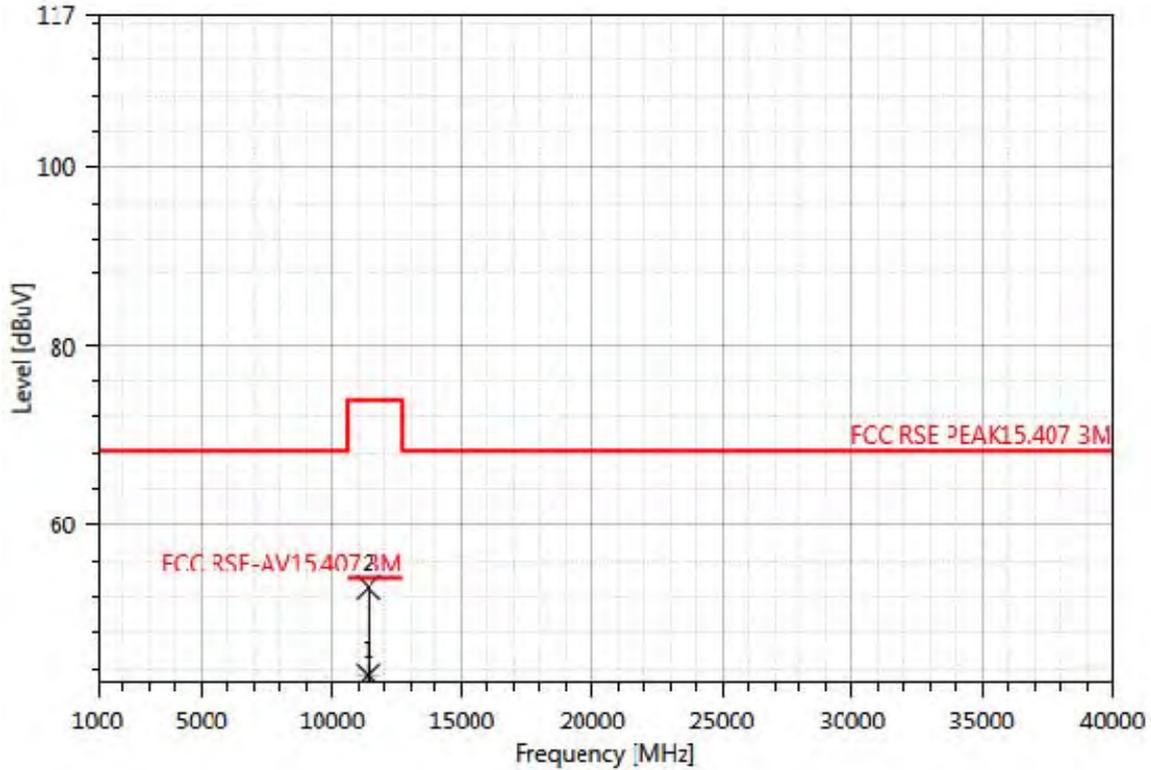
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Operation Mode :	802.11aB3	Test Date :	05/06/2016 13:49:14
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	43.20	22.64	20.56	54.00	-10.80
11400.00	H	Peak	52.98	32.42	20.56	74.00	-21.02

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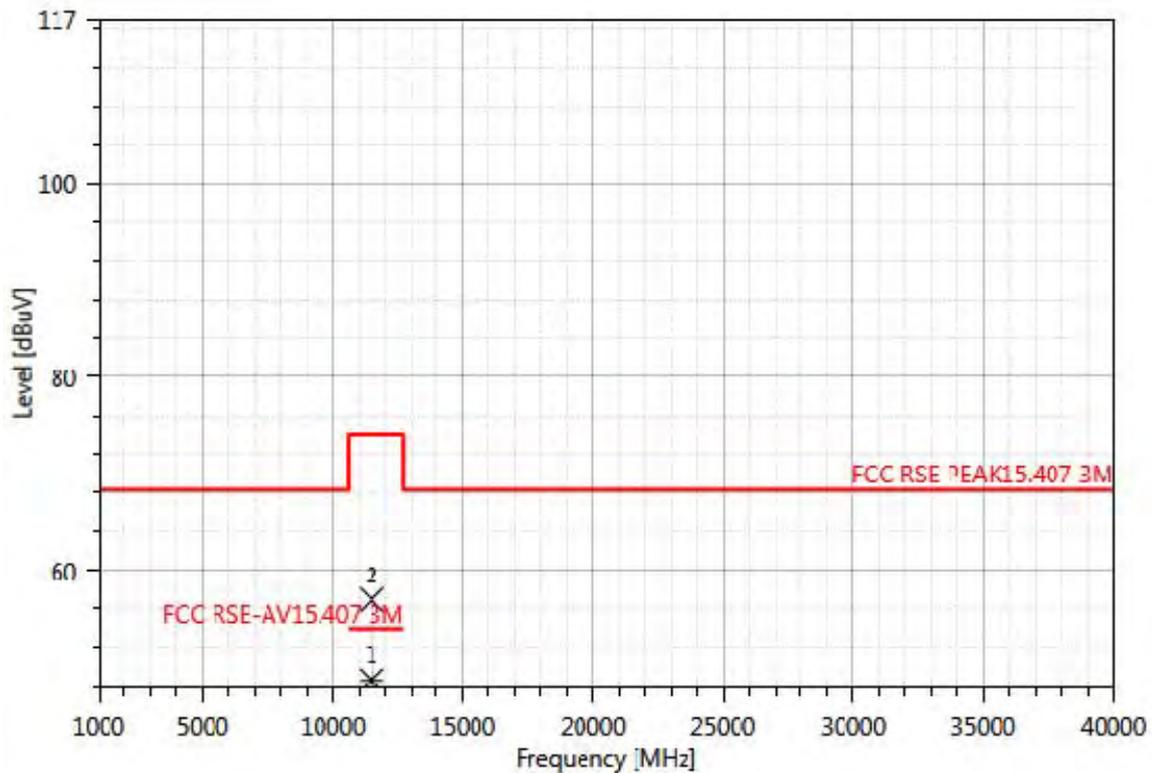
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### Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:16:39
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	48.61	28.19	20.42	54.00	-5.39
11490.00	H	Peak	56.94	36.52	20.42	74.00	-17.06

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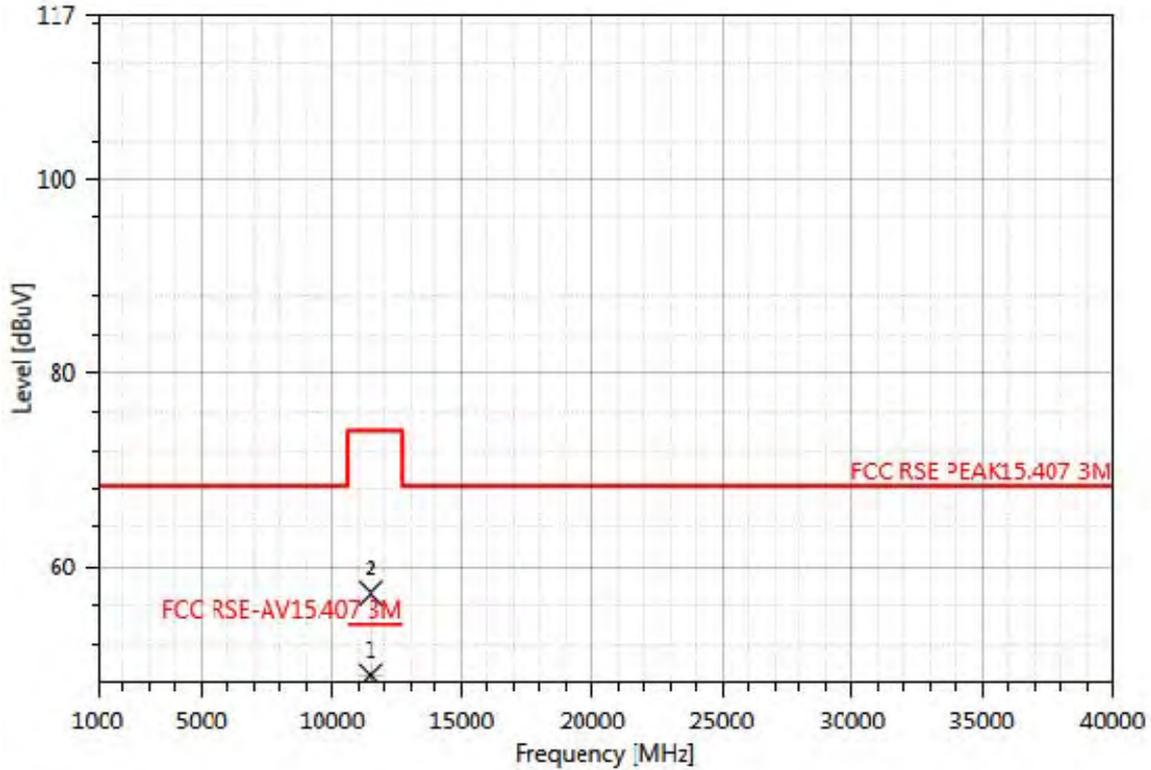
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Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:17:02
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11490.00	H	Average	48.80	28.38	20.42	54.00	-5.20
11490.00	H	Peak	57.25	36.82	20.42	74.00	-16.75

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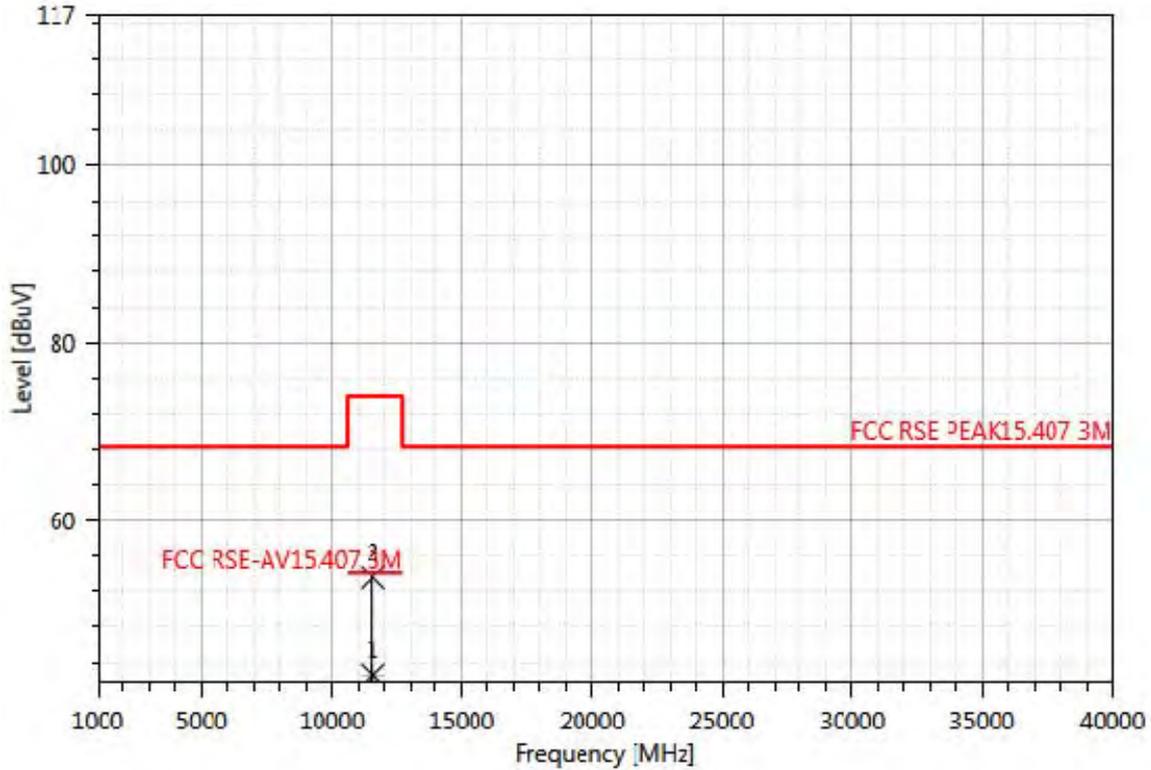
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Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:28:19
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11570.00	H	Average	42.51	21.92	20.59	54.00	-11.49
11570.00	H	Peak	53.55	32.96	20.59	74.00	-20.45

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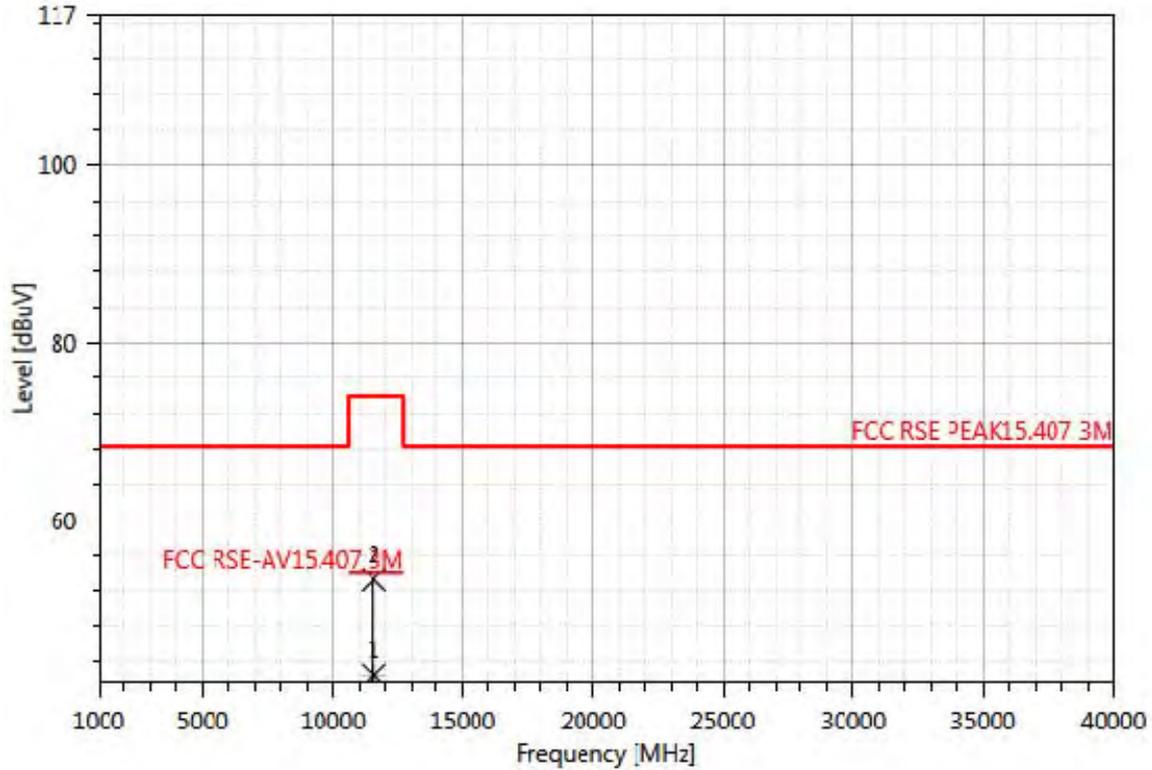
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Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:28:41
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	42.49	21.90	20.59	54.00	-11.51
11570.00	H	Peak	53.29	32.70	20.59	74.00	-20.71

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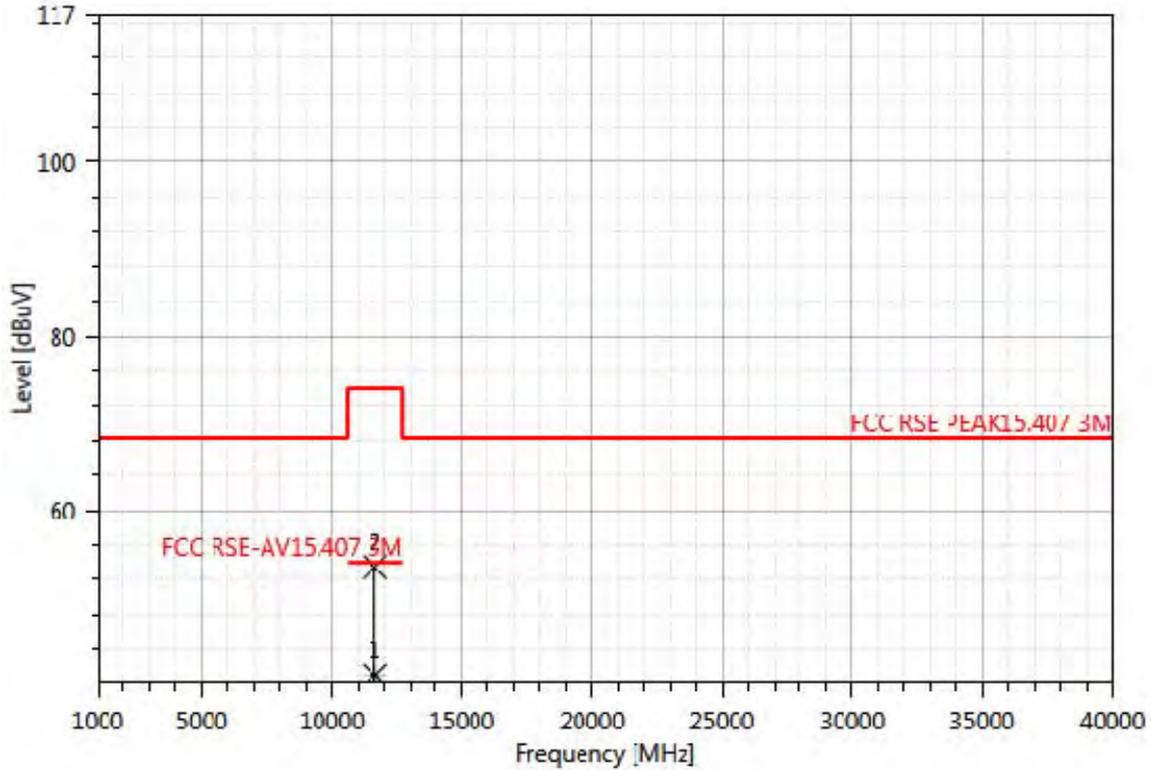
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Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:34:42
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	41.01	20.58	20.43	54.00	-12.99
11650.00	H	Peak	53.46	33.02	20.43	74.00	-20.54

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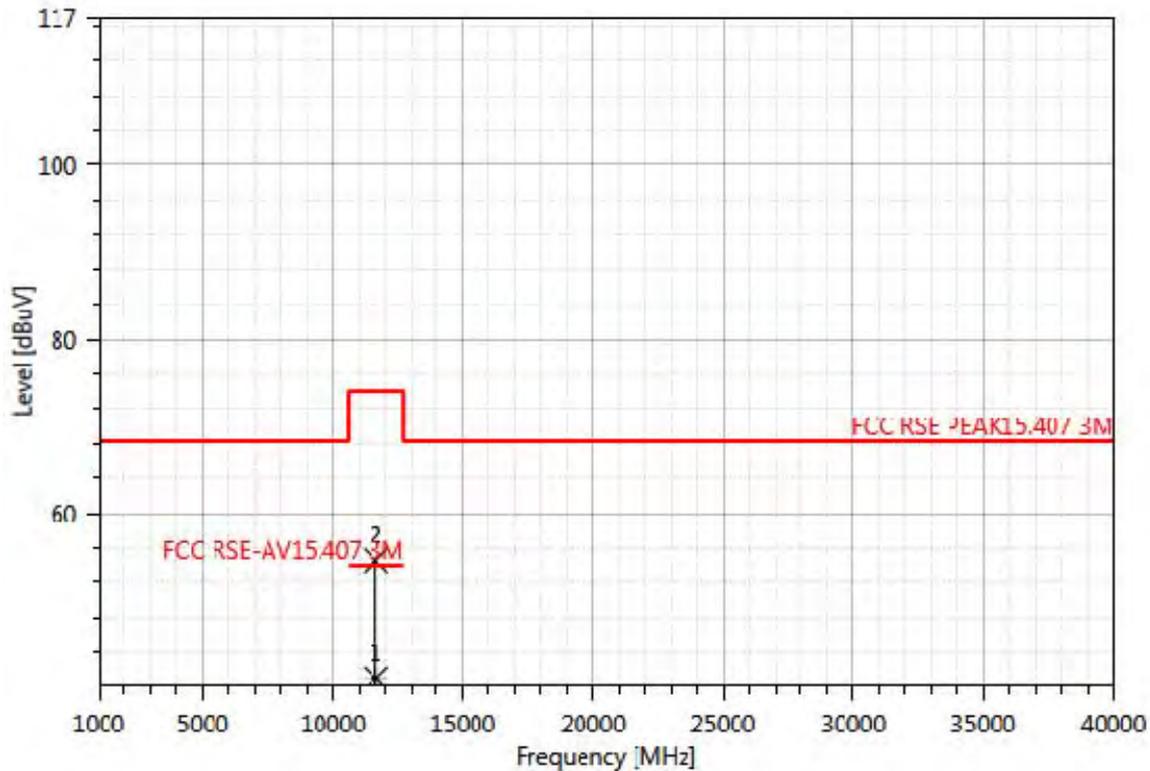
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Operation Mode :	802.11aB4	Test Date :	05/06/2016 15:35:05
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11650.00	H	Average	41.00	20.57	20.43	54.00	-13.00
11650.00	H	Peak	54.58	34.15	20.43	74.00	-19.42

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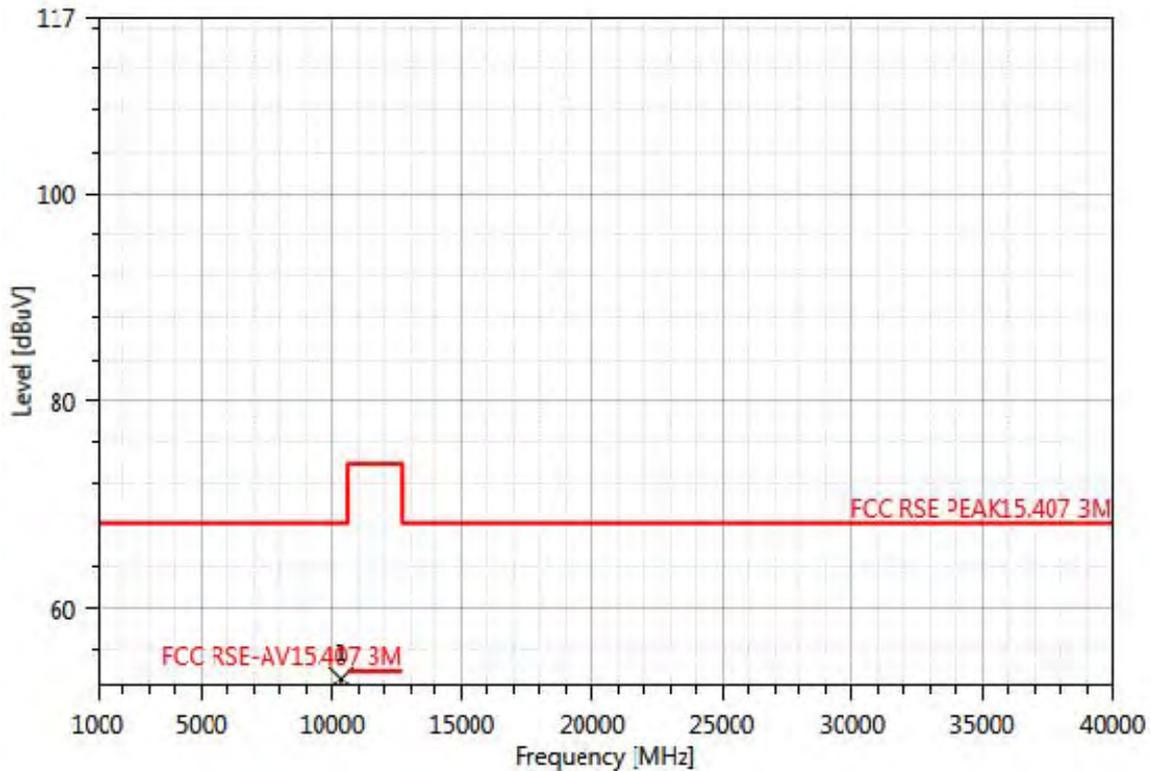
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20B1	Test Date :	05/06/2016 10:45:12
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10360.00	H	Peak	53.25	34.96	18.29	68.30	-15.05

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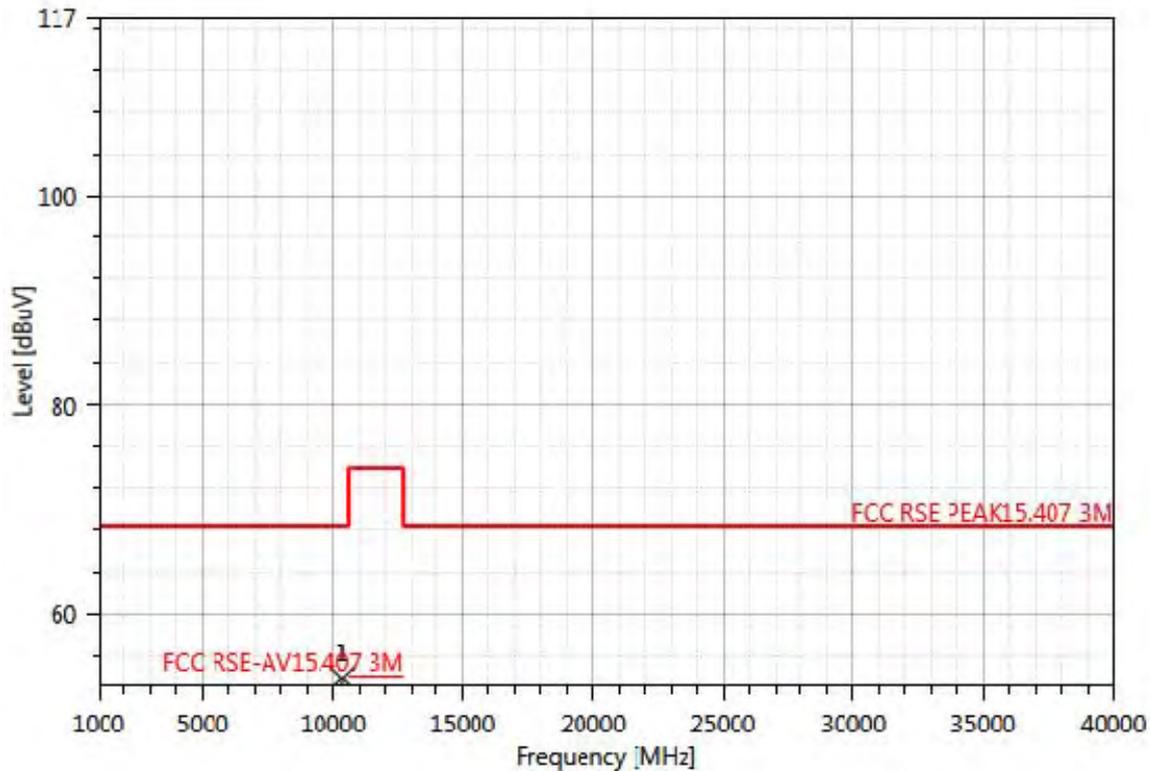
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Operation Mode :	802.11n20B1	Test Date :	05/06/2016 10:45:34
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10360.00	H	Peak	53.83	35.54	18.29	68.30	-14.47

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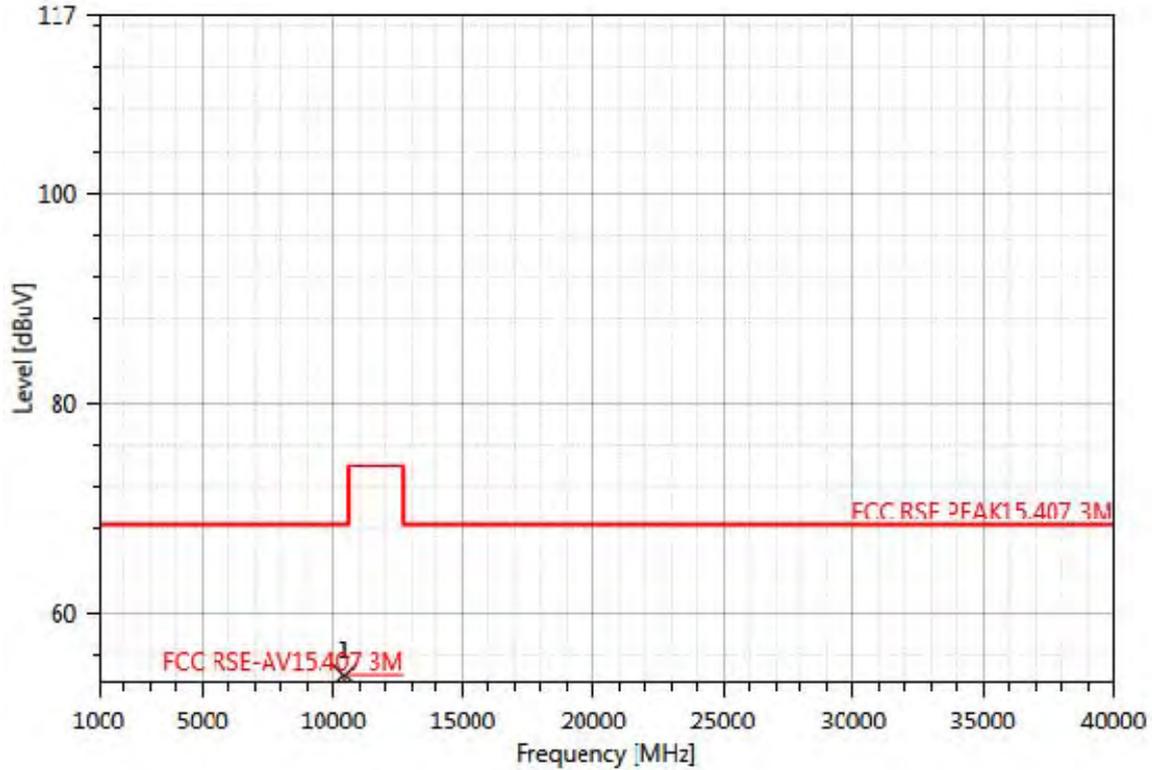
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Operation Mode :	802.11n20B1	Test Date :	05/06/2016 10:51:36
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10440.00	H	Peak	53.99	35.31	18.68	68.30	-14.31

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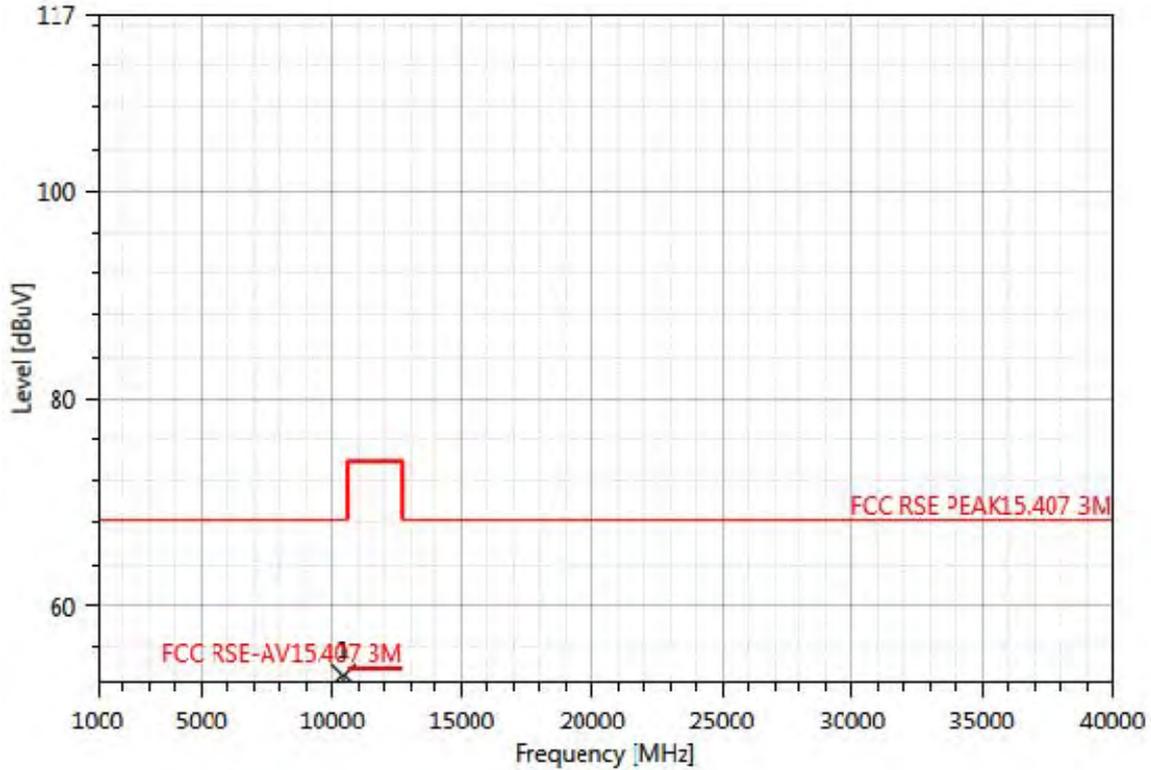
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Operation Mode : 802.11n20B1      Test Date : 05/06/2016 10:51:59  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
10440.00	H	Peak	53.29	34.61	18.68	68.30	-15.01

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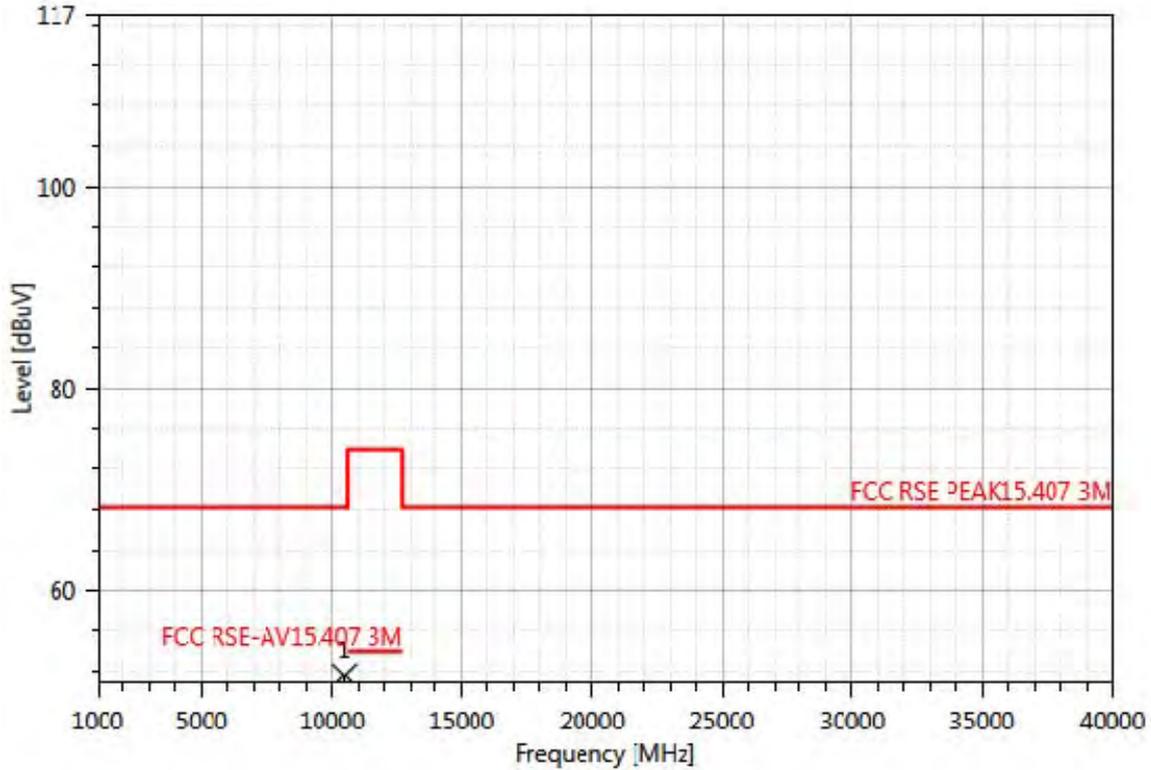
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Operation Mode :	802.11n20B1	Test Date :	05/06/2016 11:00:05
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10480.00	H	Peak	51.64	33.35	18.29	68.30	-16.66

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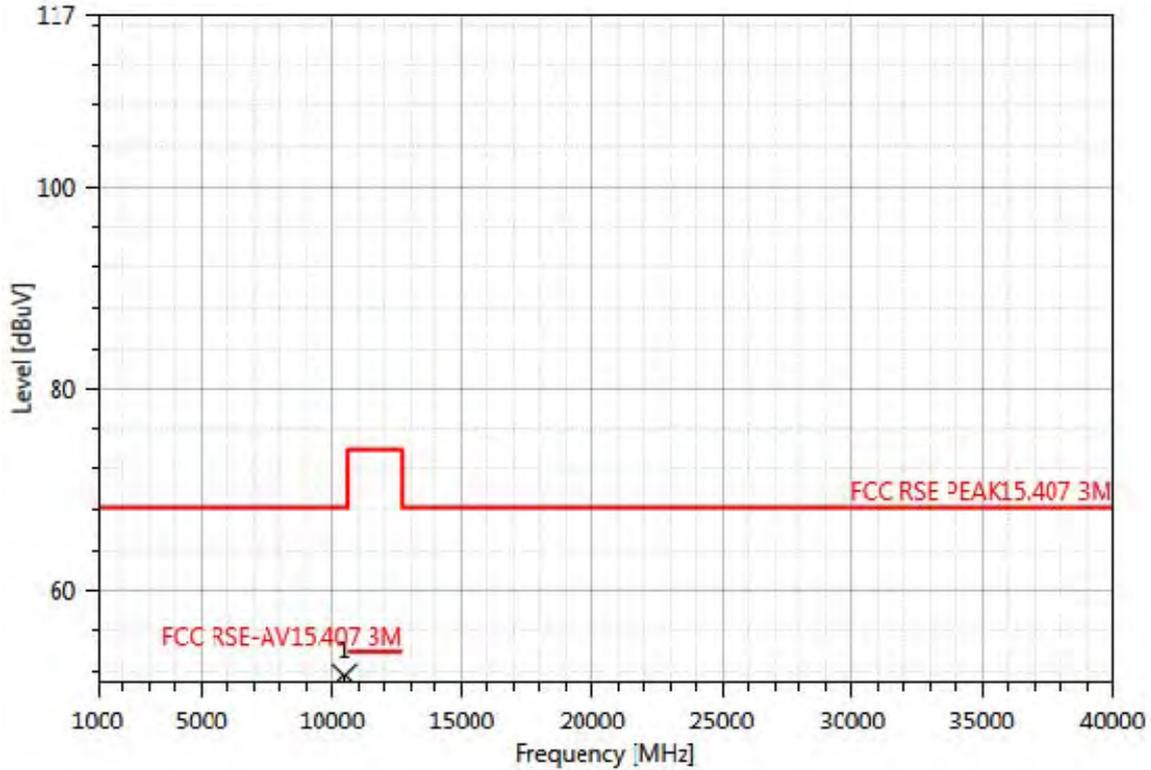
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Operation Mode :	802.11n20B1	Test Date :	05/06/2016 11:00:27
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10480.00	H	Peak	51.66	33.36	18.29	68.30	-16.64

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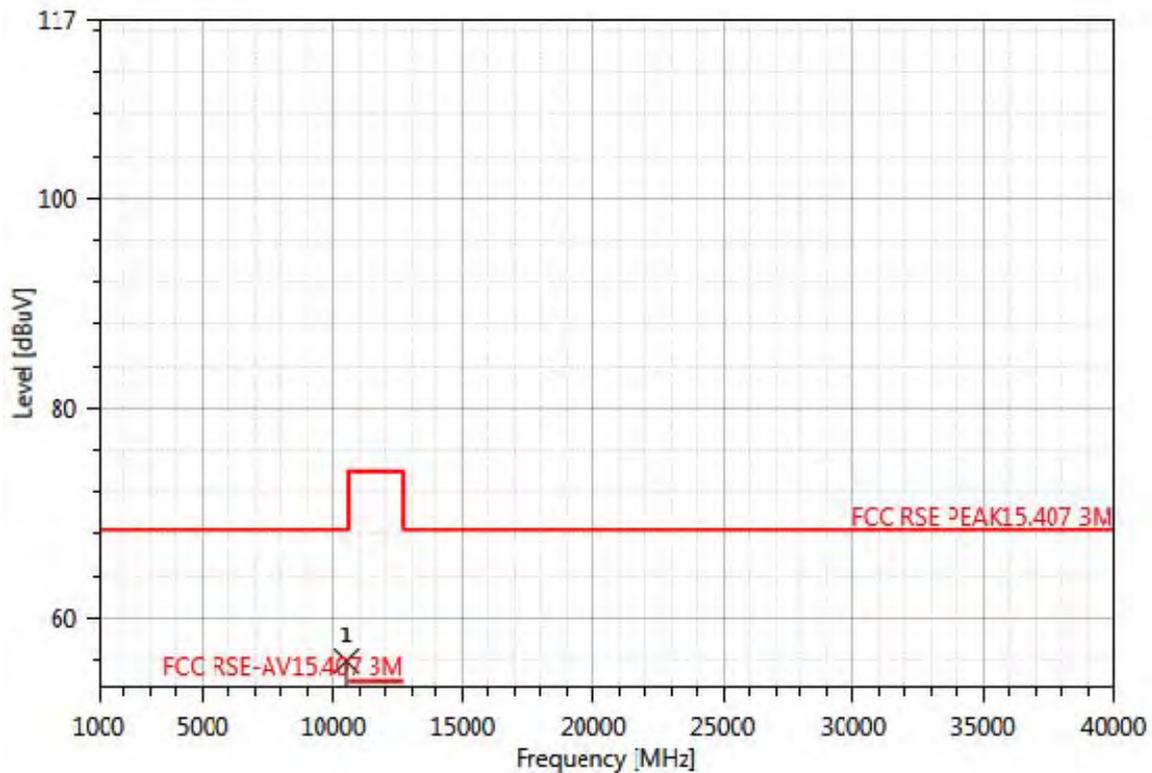
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:05:11
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10520.00	H	Peak	55.85	36.47	19.37	68.30	-12.45

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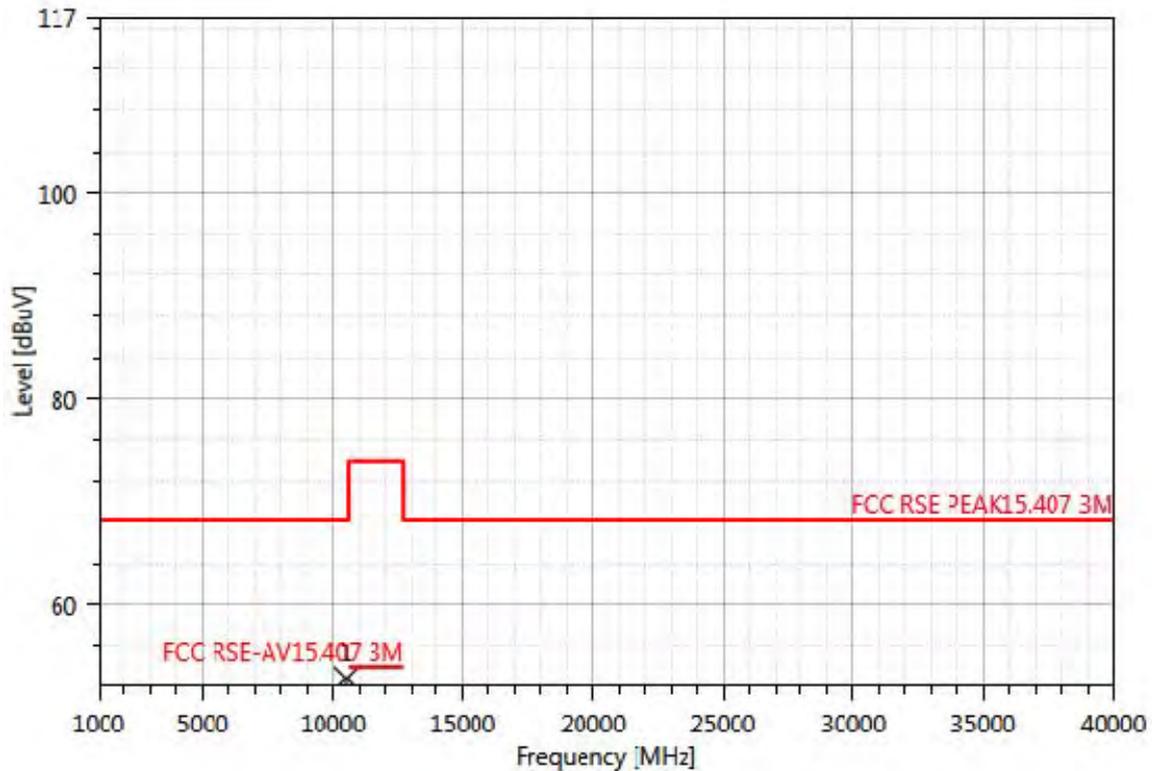
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Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:05:34
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10520.00	H	Peak	52.87	33.50	19.37	68.30	-15.43

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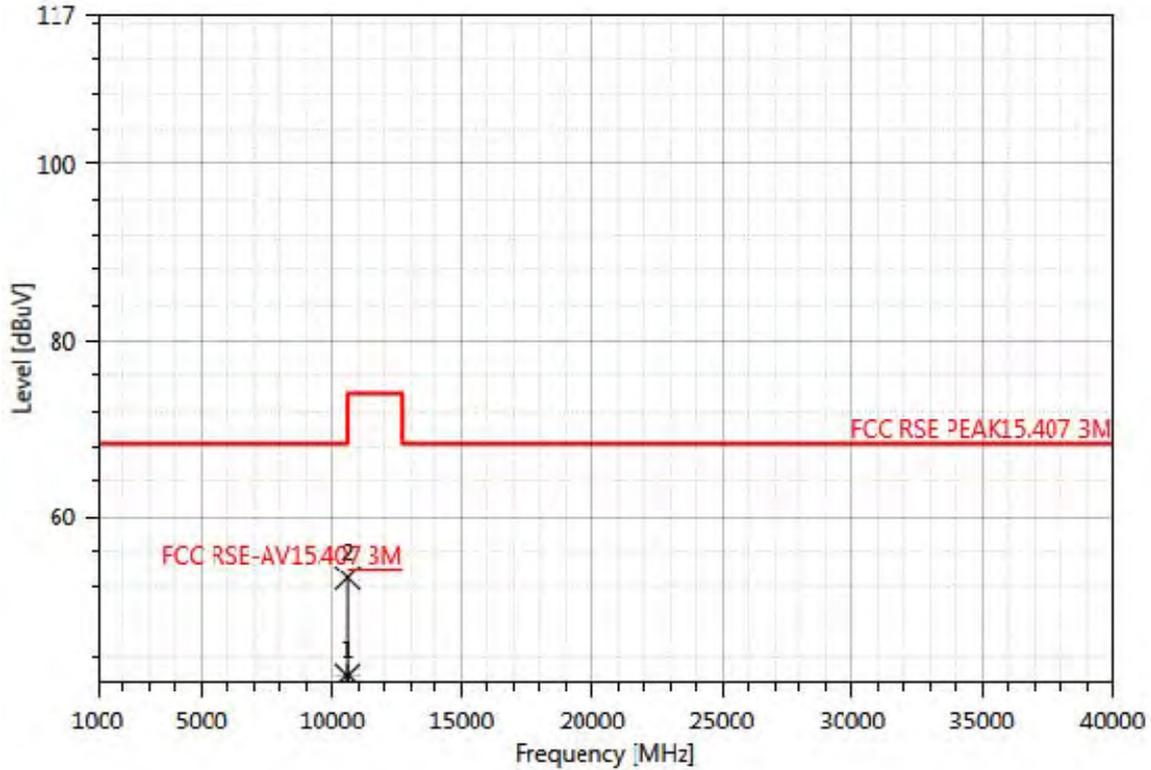
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Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:10:05
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10600.00	H	Average	42.01	23.10	18.91	54.00	-11.99
10600.00	H	Peak	53.04	34.13	18.91	74.00	-20.96

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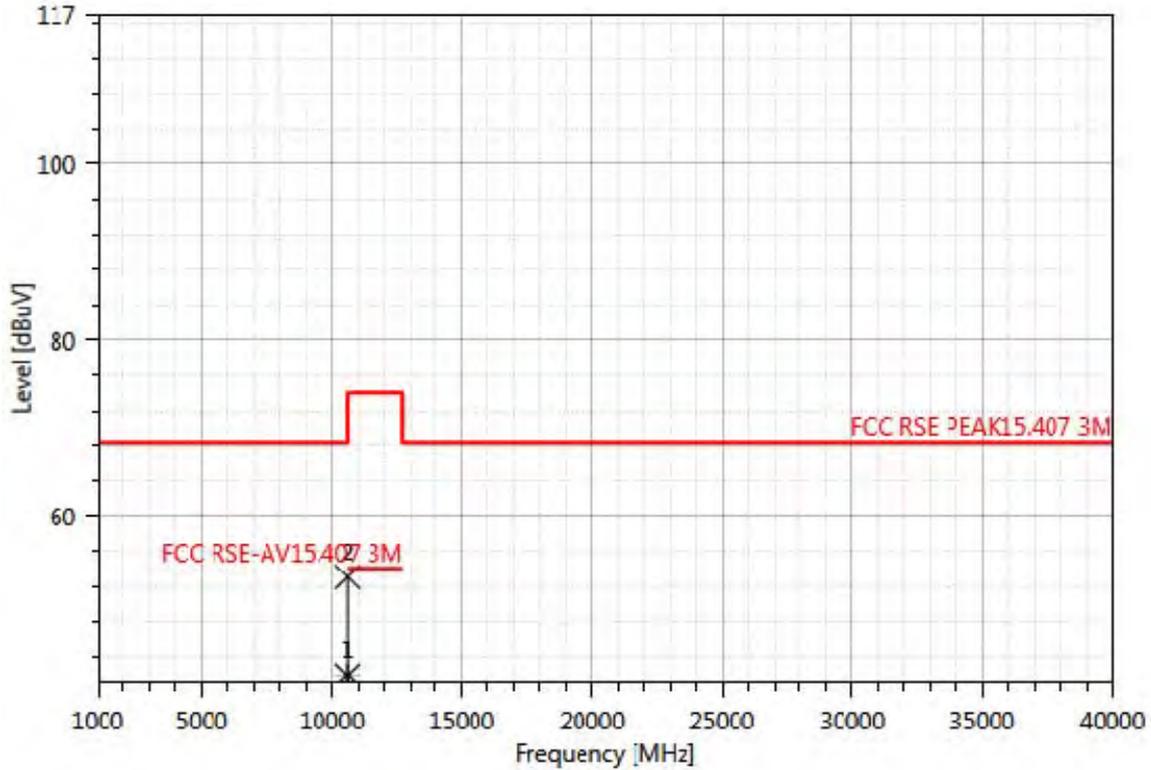
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Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:10:28
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10600.00	H	Average	41.86	22.95	18.91	54.00	-12.14
10600.00	H	Peak	53.03	34.12	18.91	74.00	-20.97

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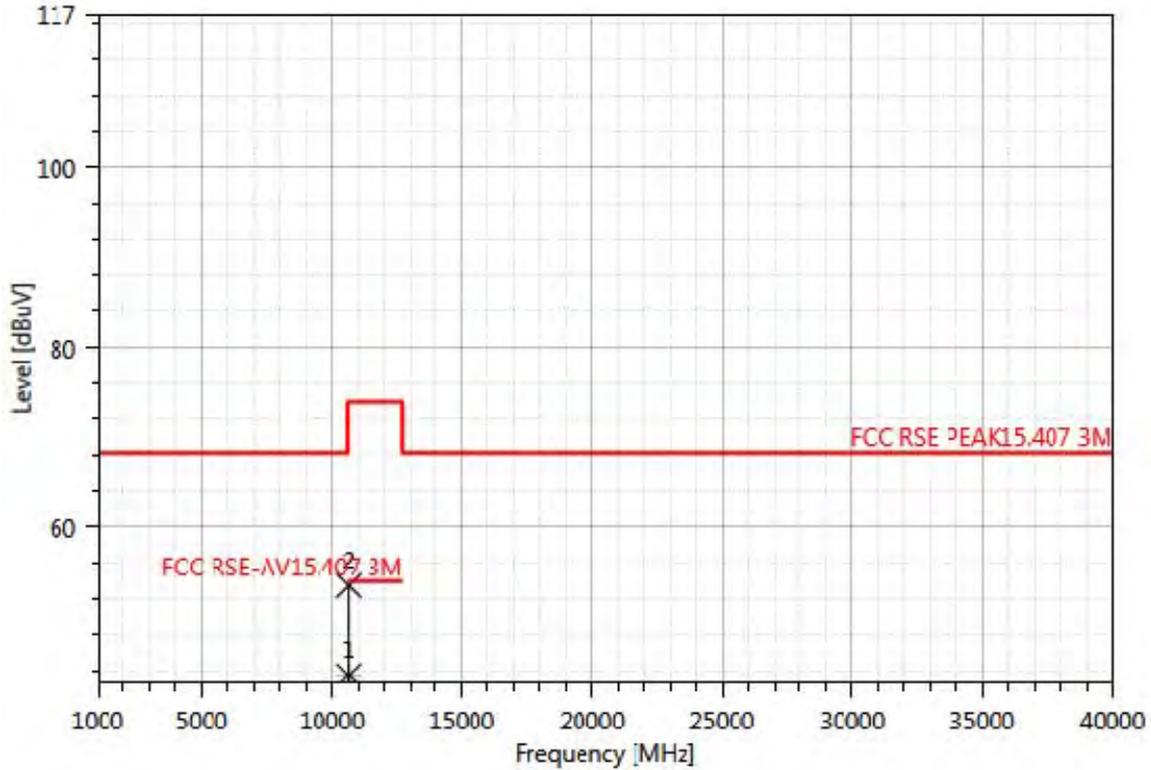
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Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:15:30
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	43.55	24.37	19.18	54.00	-10.45
10640.00	H	Peak	53.51	34.32	19.18	74.00	-20.49

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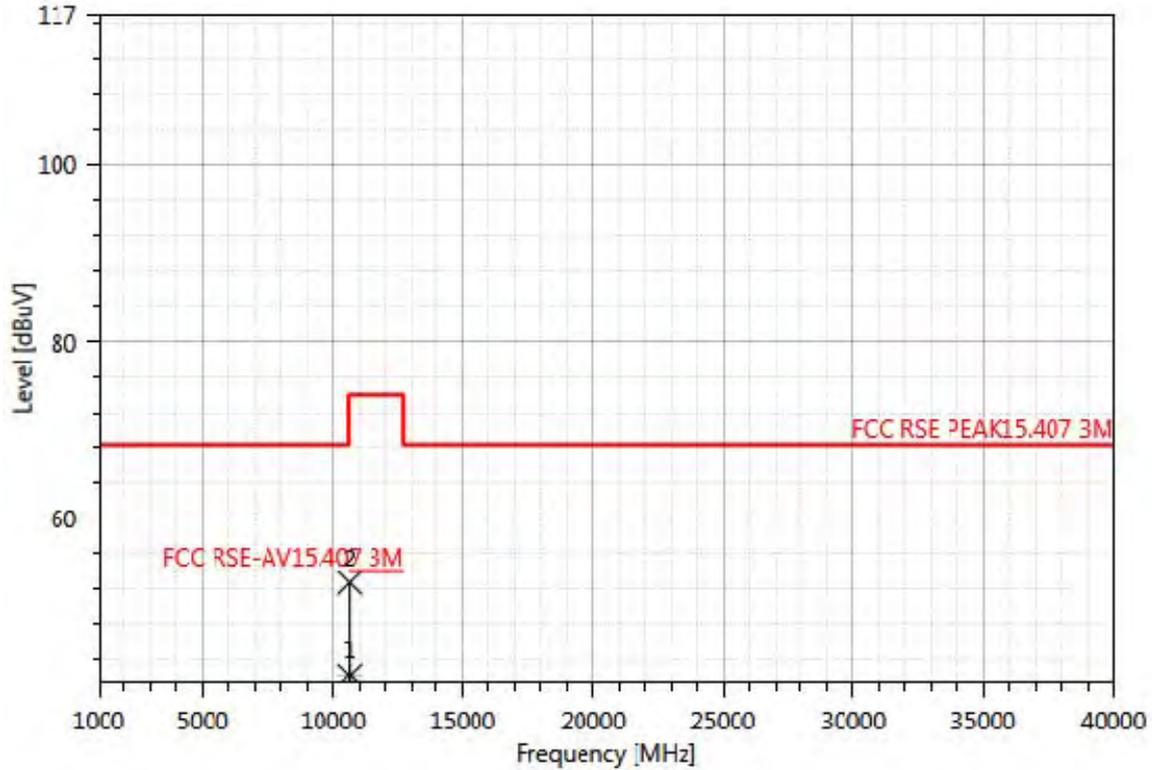
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Operation Mode :	802.11n20B2	Test Date :	05/06/2016 11:15:53
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10640.00	H	Average	42.23	23.05	19.18	54.00	-11.77
10640.00	H	Peak	52.70	33.51	19.18	74.00	-21.30

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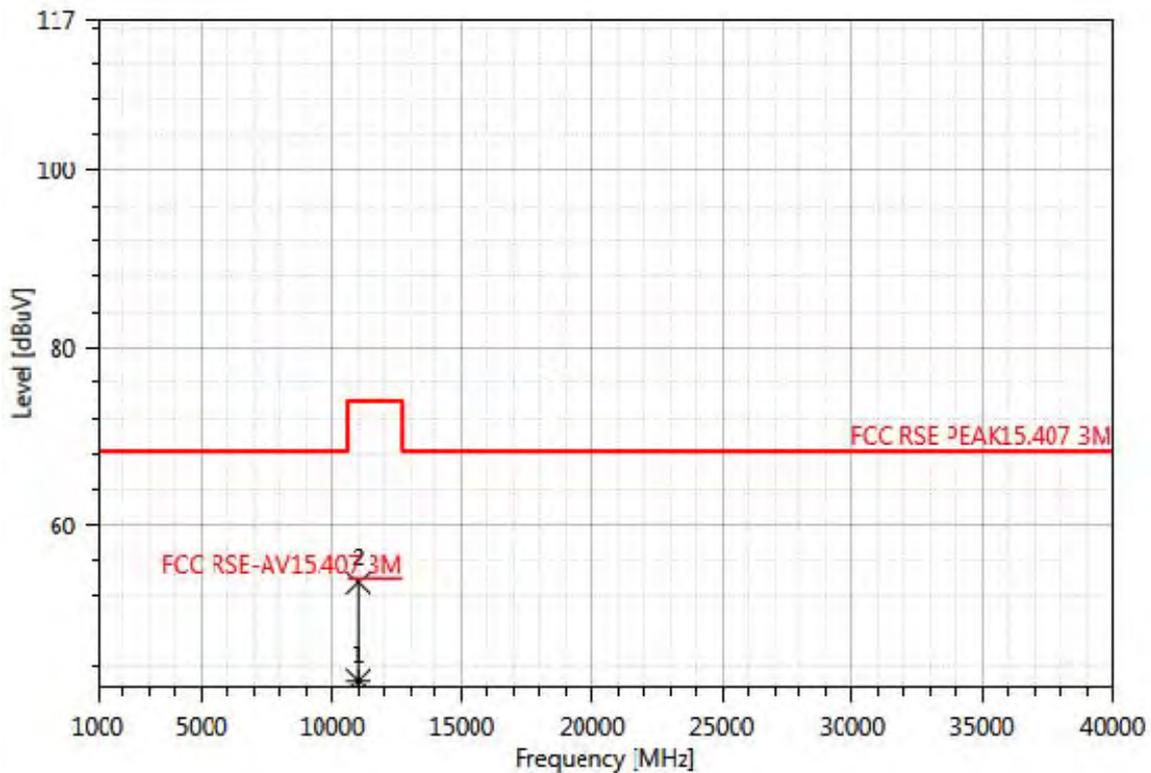
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20B3	Test Date :	05/06/2016 13:54:46
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	42.48	22.31	20.17	54.00	-11.52
11000.00	H	Peak	53.47	33.30	20.17	74.00	-20.53

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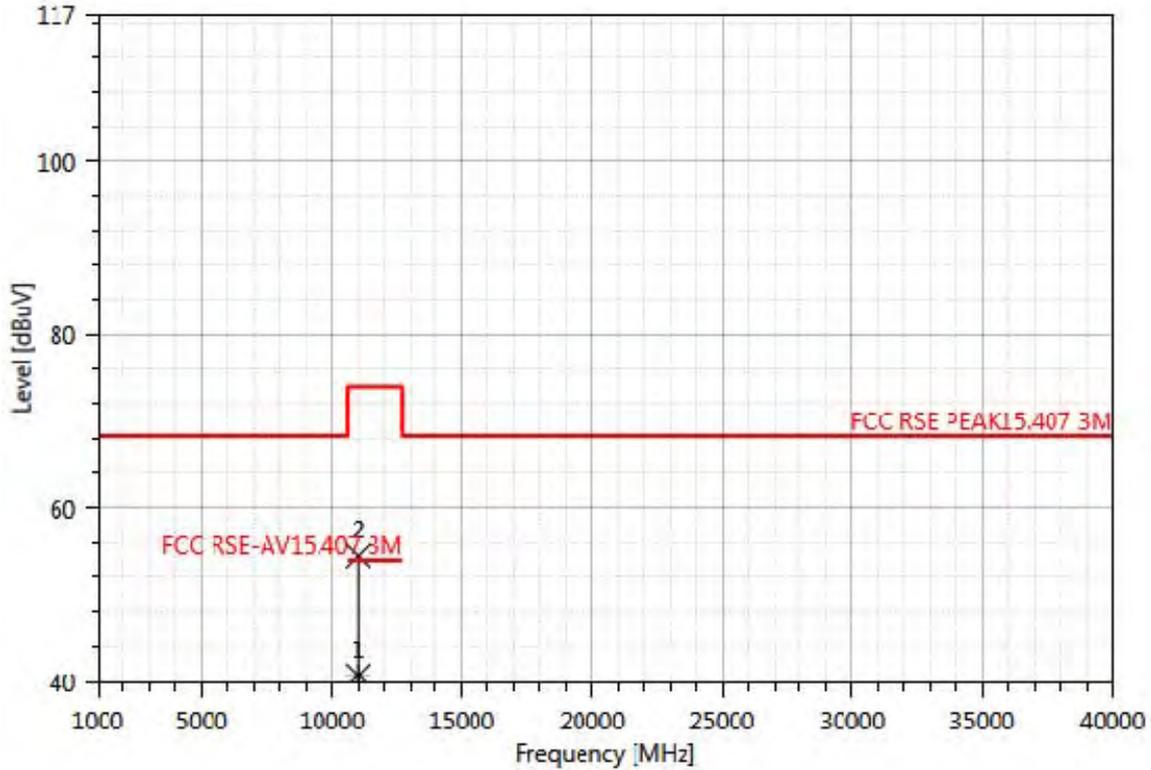
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Operation Mode :	802.11n20B3	Test Date :	05/06/2016 13:55:08
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	40.68	20.51	20.17	54.00	-13.32
11000.00	H	Peak	54.50	34.33	20.17	74.00	-19.50

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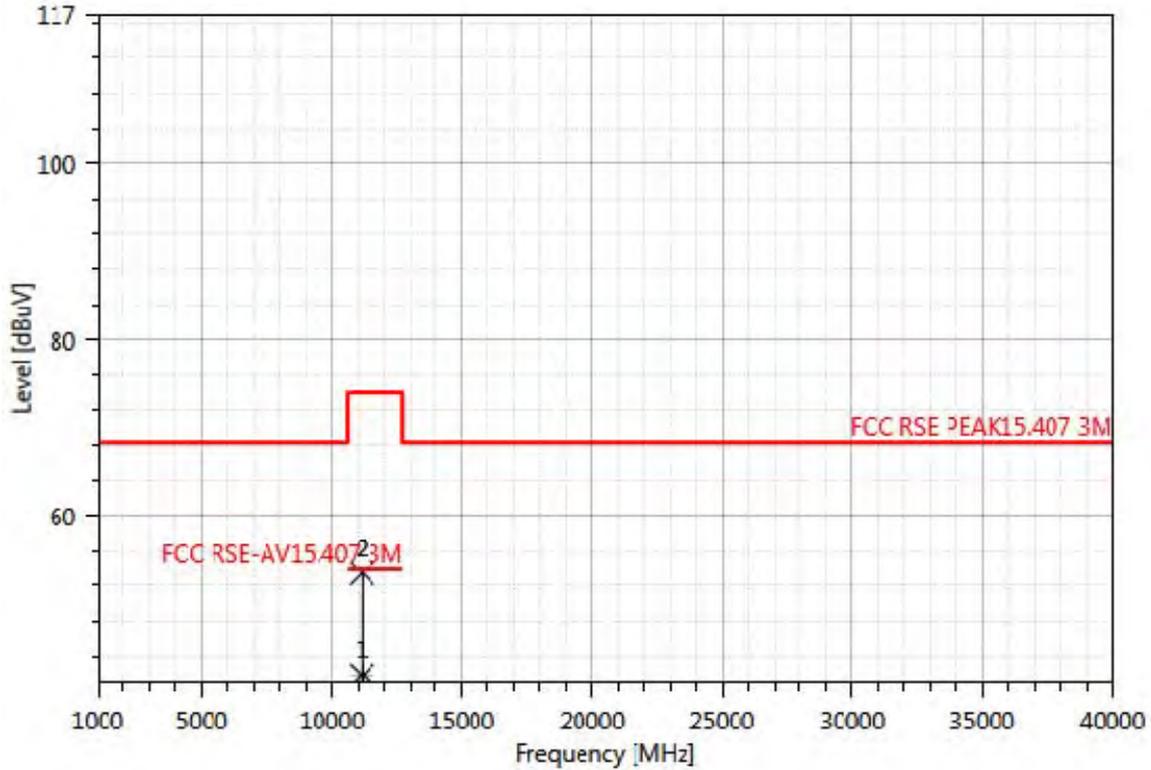
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Operation Mode : 802.11n20B3      Test Date : 05/06/2016 14:01:51  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	41.82	21.37	20.45	54.00	-12.18
11160.00	H	Peak	53.42	32.98	20.45	74.00	-20.58

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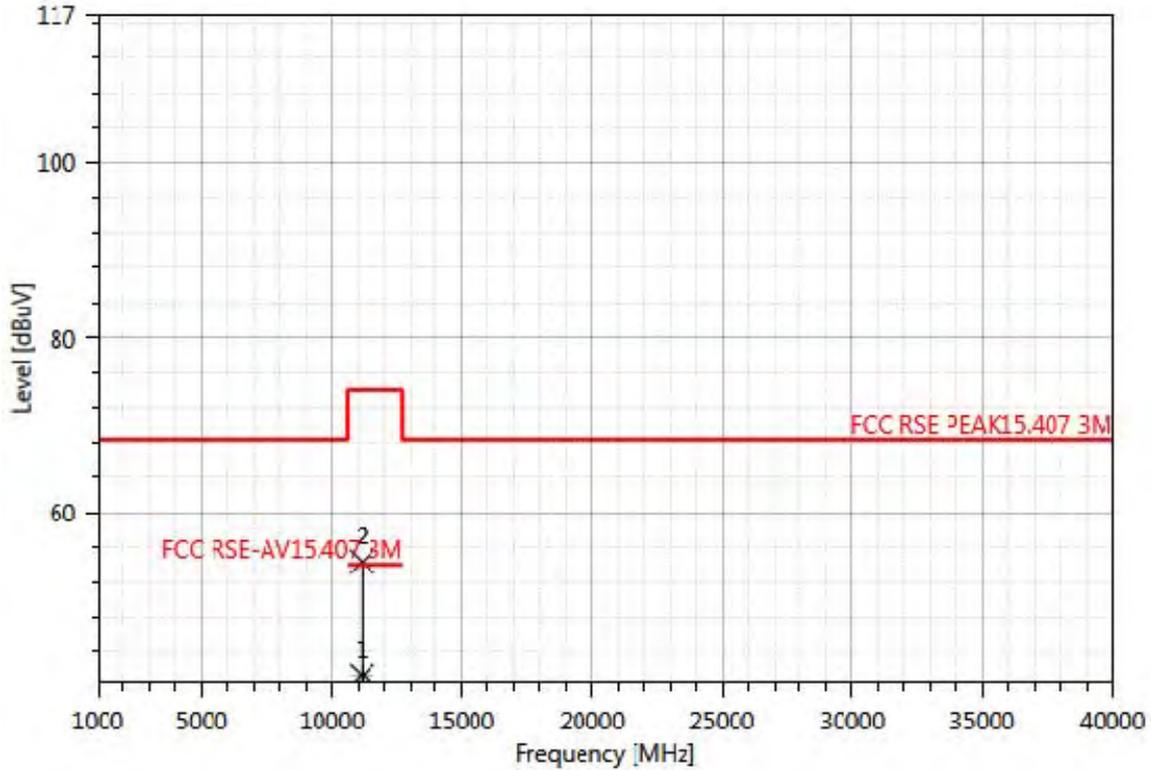
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Operation Mode : 802.11n20B3      Test Date : 05/06/2016 14:02:13  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	41.32	20.87	20.45	54.00	-12.68
11160.00	H	Peak	54.32	33.88	20.45	74.00	-19.68

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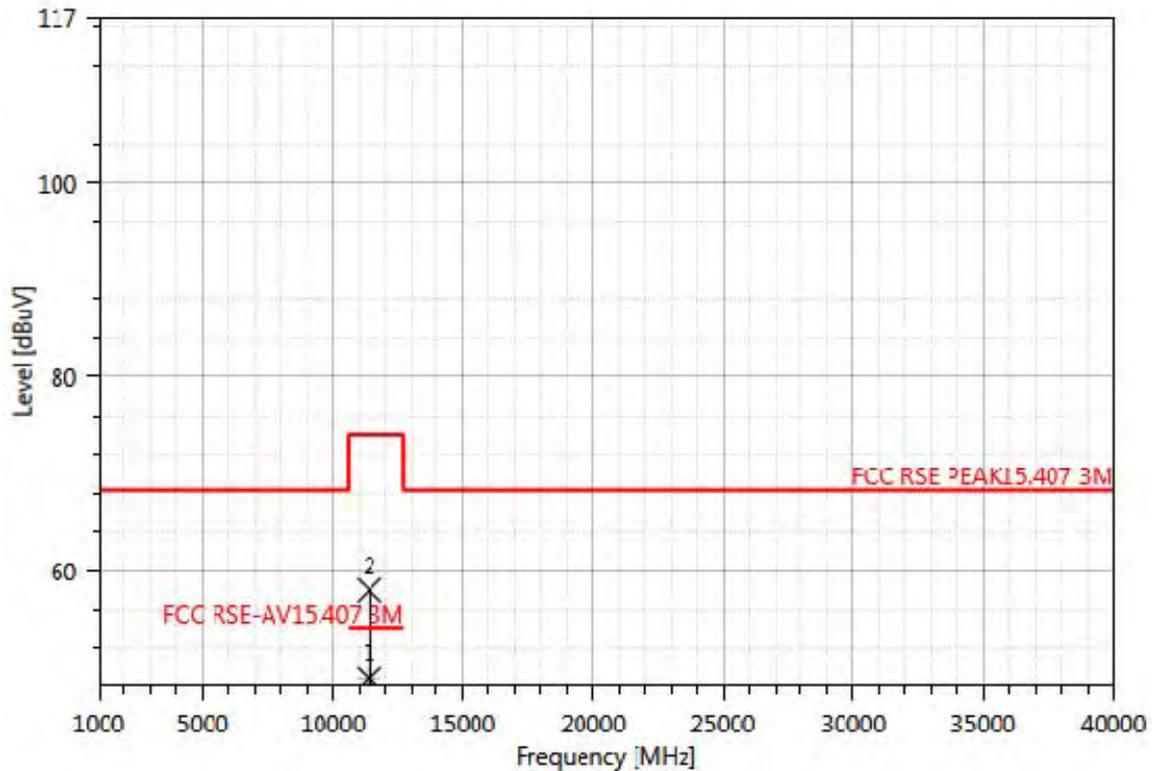
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Operation Mode :	802.11n20B3	Test Date :	05/06/2016 14:08:57
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11400.00	H	Average	48.94	28.38	20.56	54.00	-5.06
11400.00	H	Peak	57.99	37.44	20.56	74.00	-16.01

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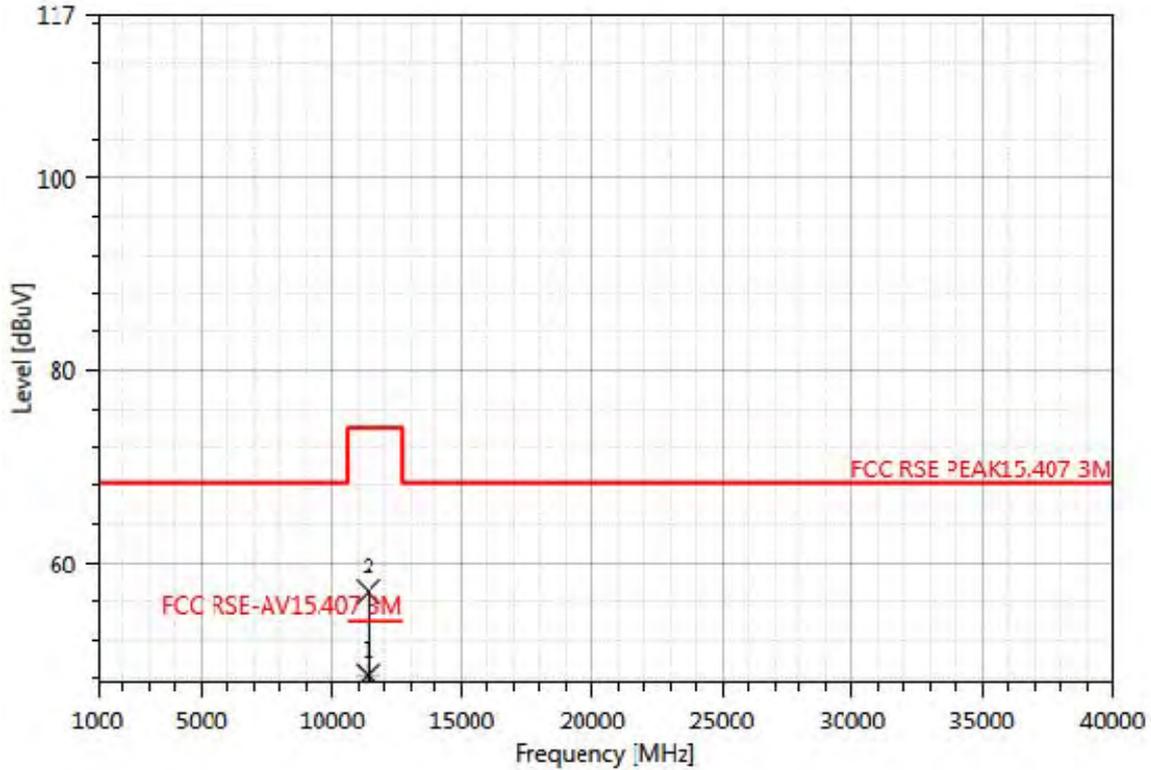
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Operation Mode :	802.11n20B3	Test Date :	05/06/2016 14:09:19
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	48.34	27.78	20.56	54.00	-5.66
11400.00	H	Peak	56.99	36.43	20.56	74.00	-17.01

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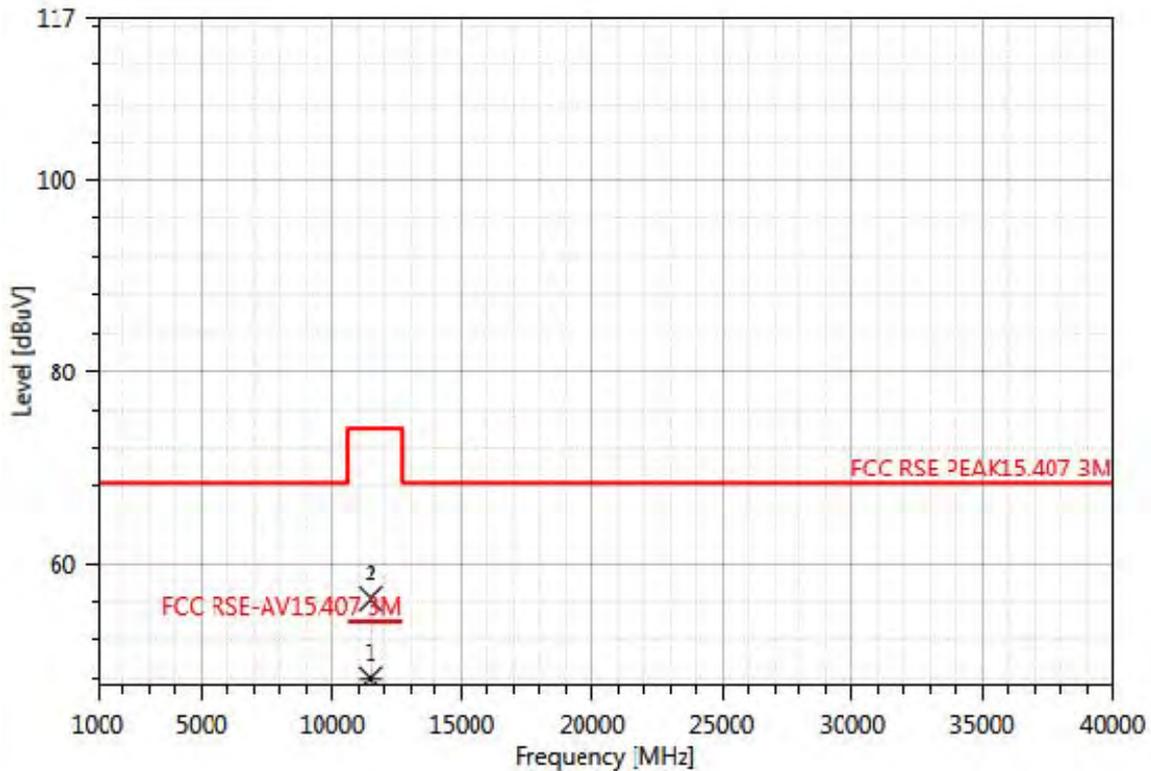
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### Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20B4	Test Date :	05/06/2016 15:40:50
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
11490.00	H	Average	48.00	27.58	20.42	54.00	-6.00
11490.00	H	Peak	56.28	35.86	20.42	74.00	-17.72

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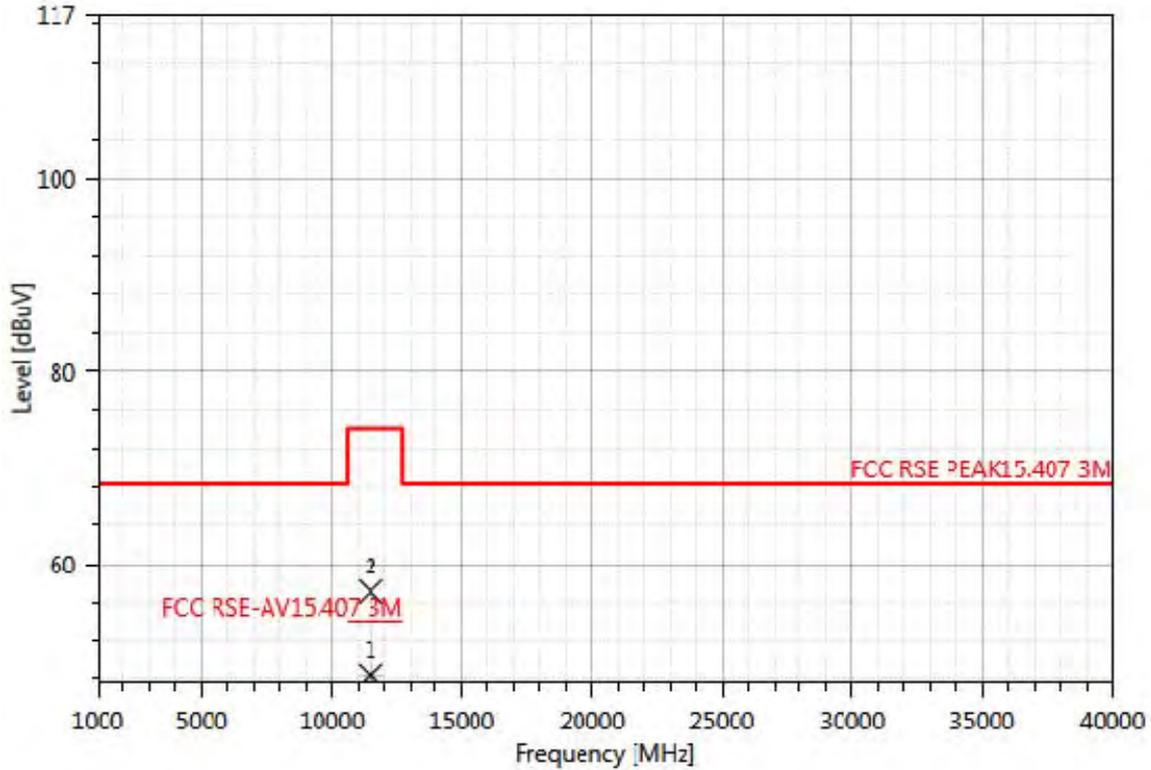
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Operation Mode : 802.11n20B4      Test Date : 05/06/2016 15:41:13  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
11490.00	H	Average	48.47	28.05	20.42	54.00	-5.53
11490.00	H	Peak	57.15	36.73	20.42	74.00	-16.85

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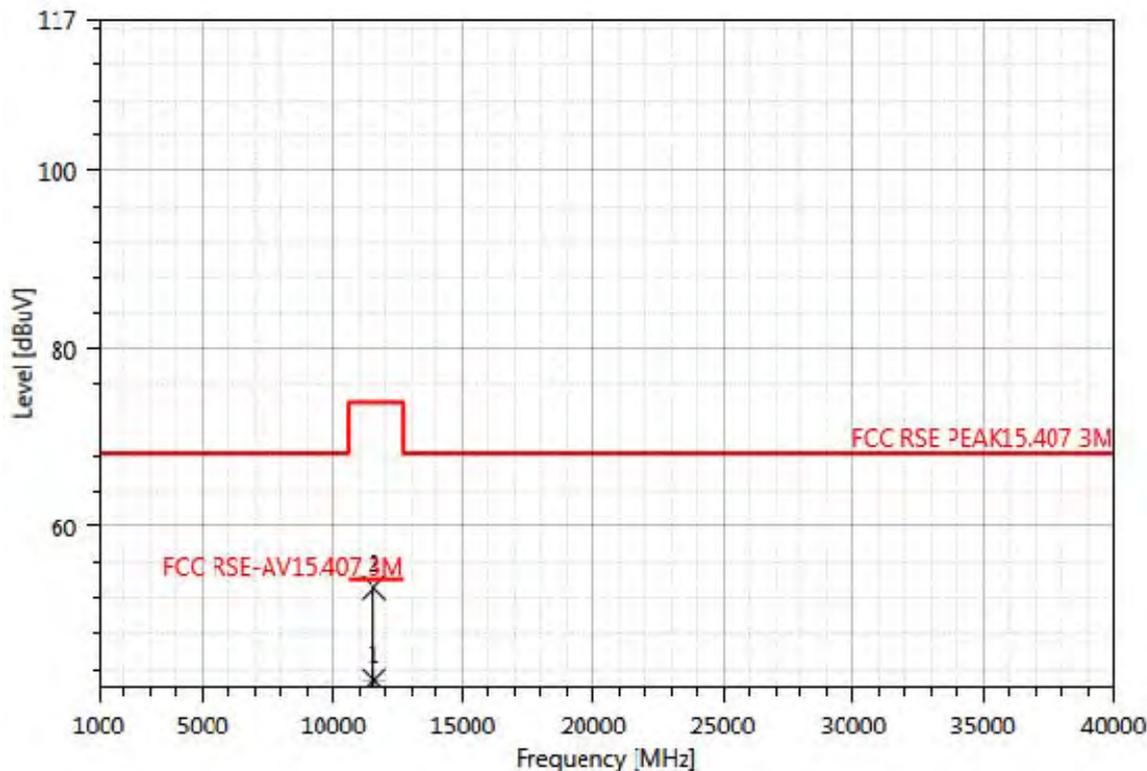
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Operation Mode :	802.11n20B4	Test Date :	05/06/2016 15:50:03
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11570.00	H	Average	42.76	22.17	20.59	54.00	-11.24
11570.00	H	Peak	53.11	32.53	20.59	74.00	-20.89

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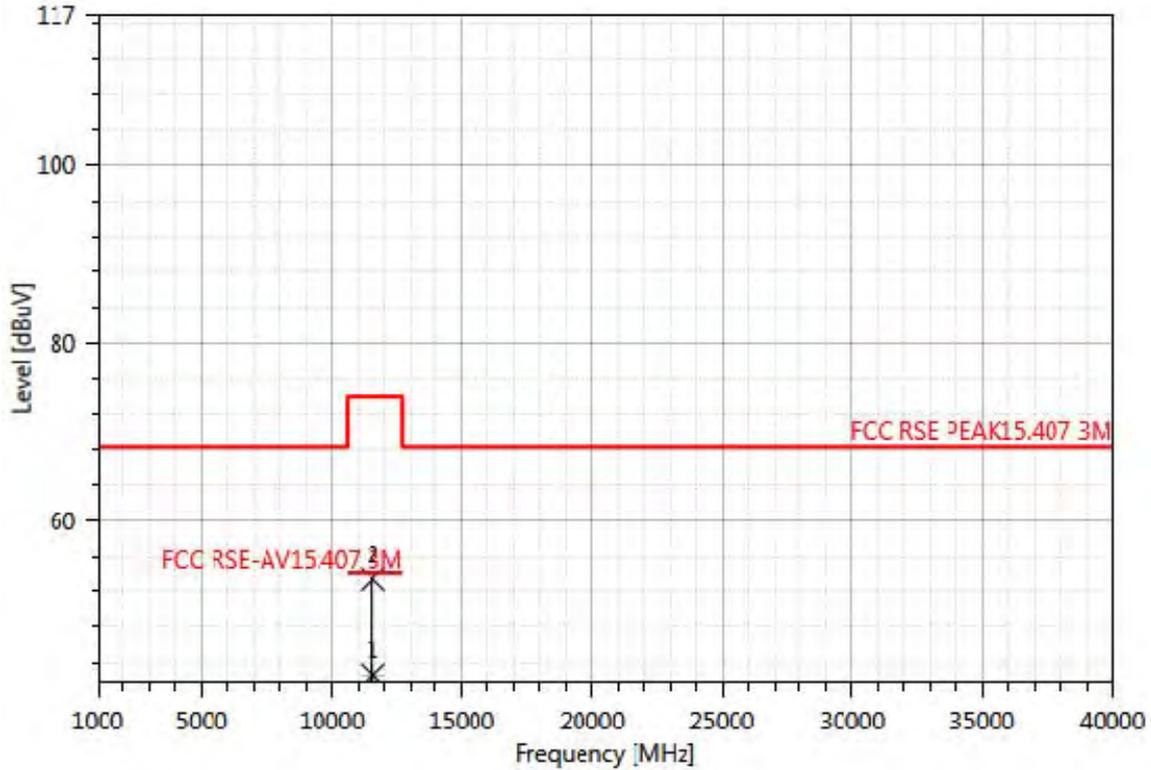
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Operation Mode :	802.11n20B4	Test Date :	05/06/2016 15:50:25
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	42.57	21.98	20.59	54.00	-11.43
11570.00	H	Peak	53.41	32.82	20.59	74.00	-20.59

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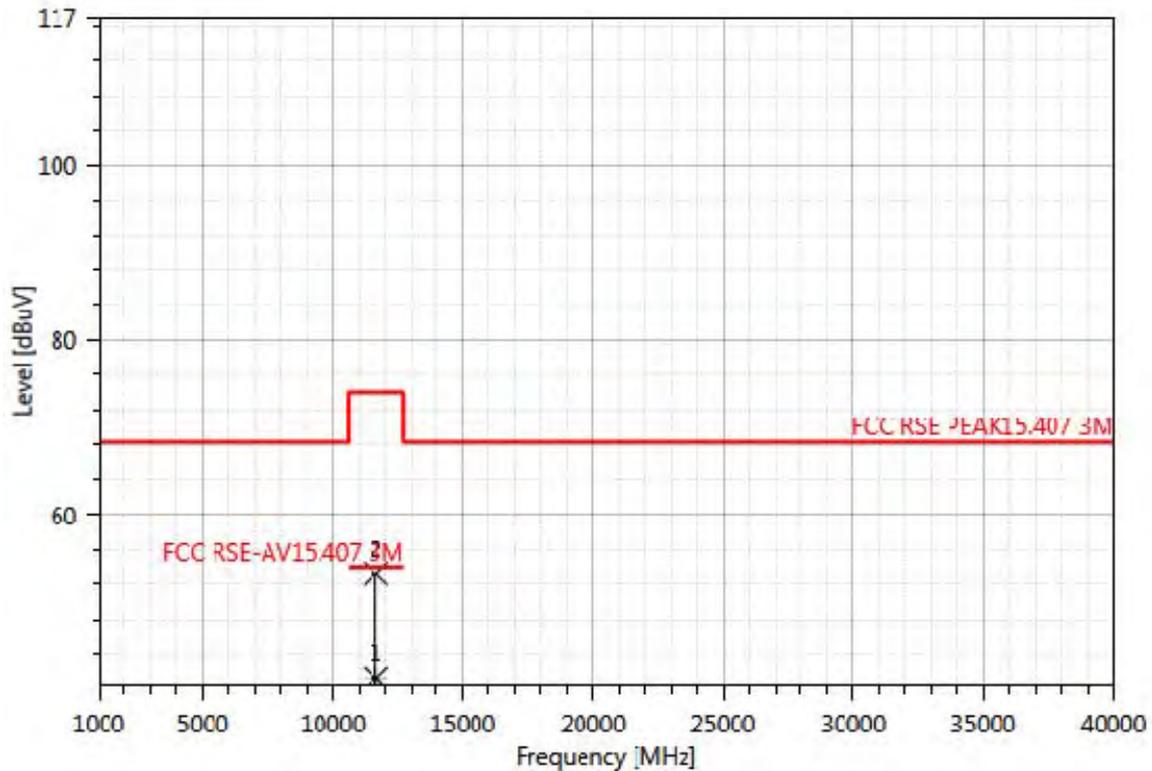
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Operation Mode :	802.11n20B4	Test Date :	05/06/2016 15:55:52
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11650.00	H	Average	41.20	20.77	20.43	54.00	-12.80
11650.00	H	Peak	53.20	32.77	20.43	74.00	-20.80

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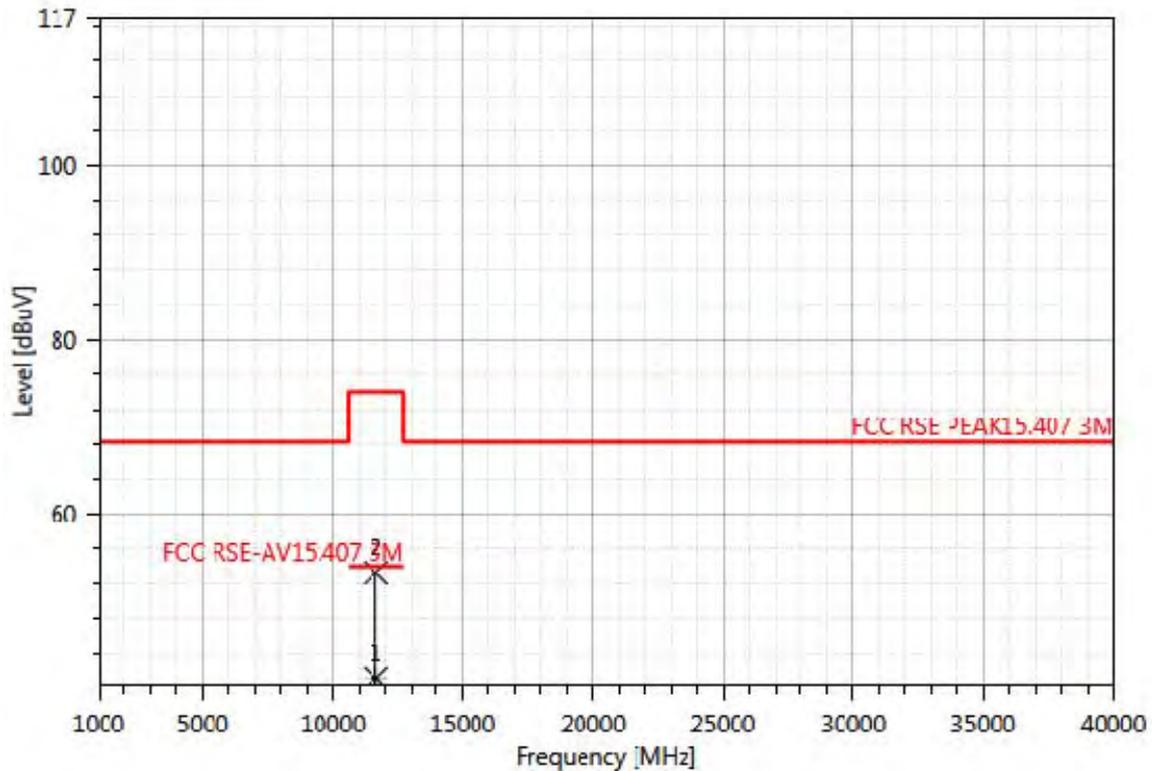
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Operation Mode :	802.11n20B4	Test Date :	05/06/2016 15:56:15
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11650.00	H	Average	41.14	20.71	20.43	54.00	-12.86
11650.00	H	Peak	53.25	32.82	20.43	74.00	-20.75

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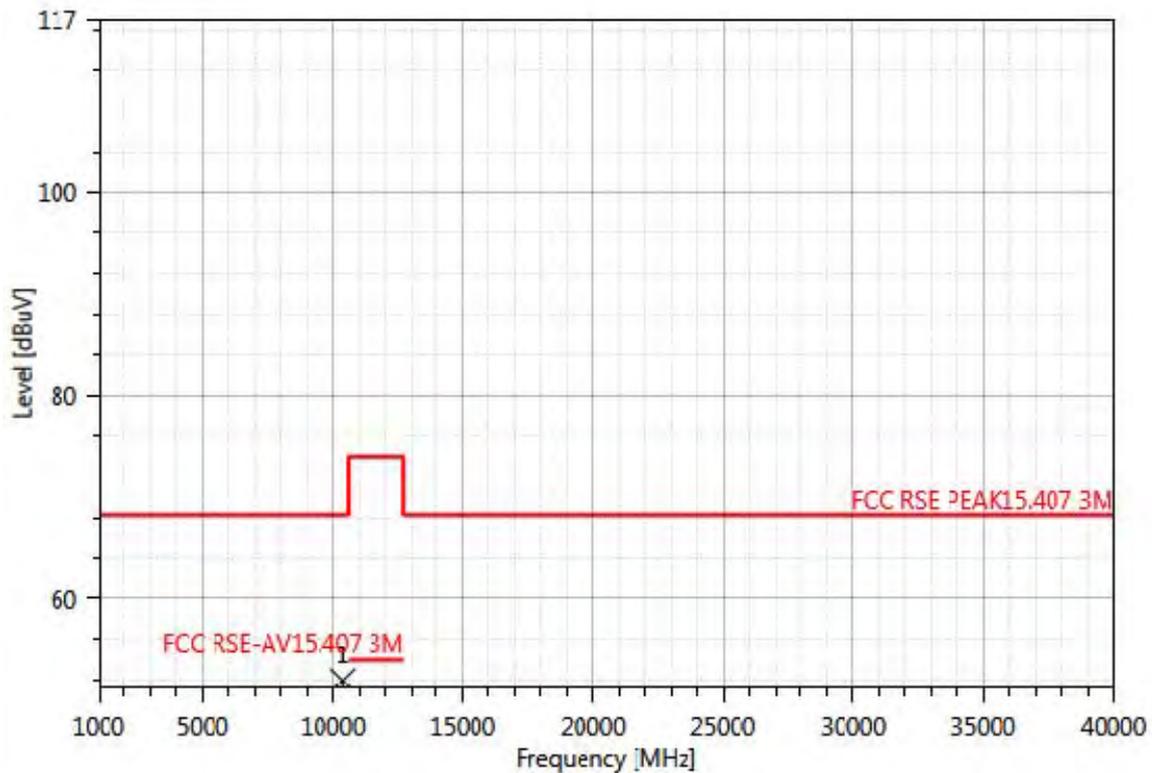
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40B1	Test Date :	05/06/2016 11:33:26
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10380.00	H	Peak	51.98	33.86	18.12	68.30	-16.32

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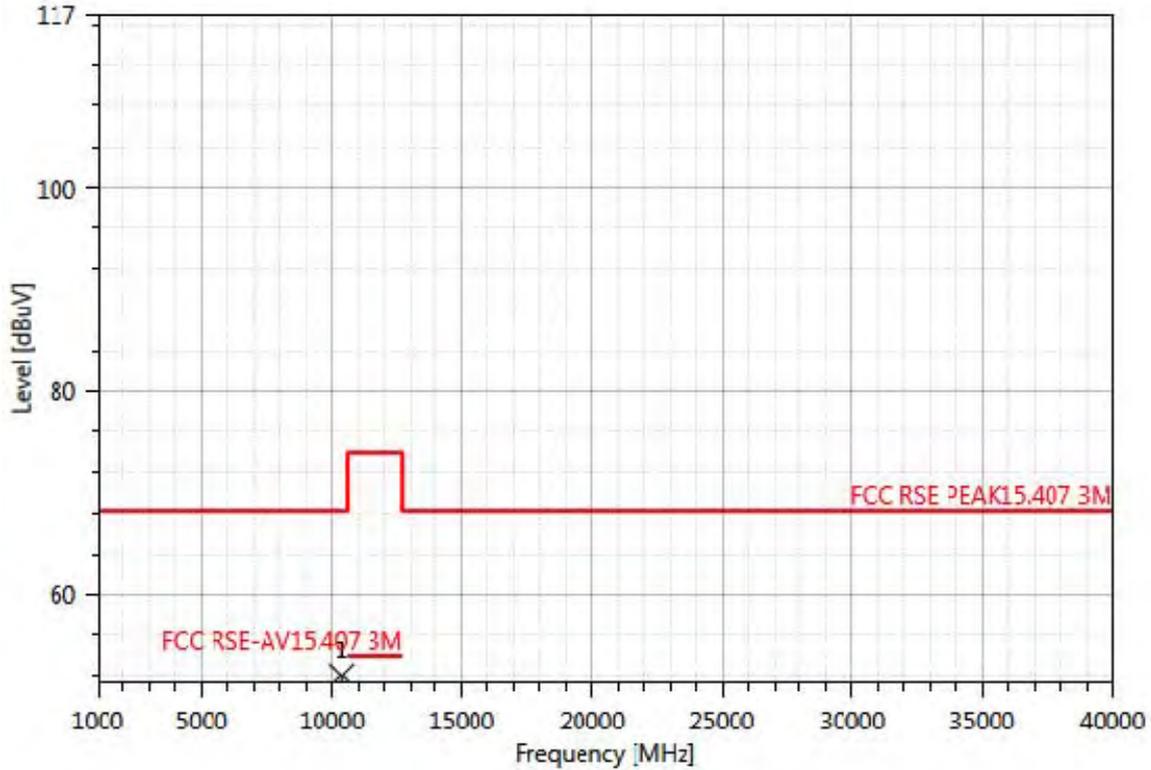
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Operation Mode :	802.11n40B1	Test Date :	05/06/2016 11:33:48
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10380.00	H	Peak	52.09	33.97	18.12	68.30	-16.21

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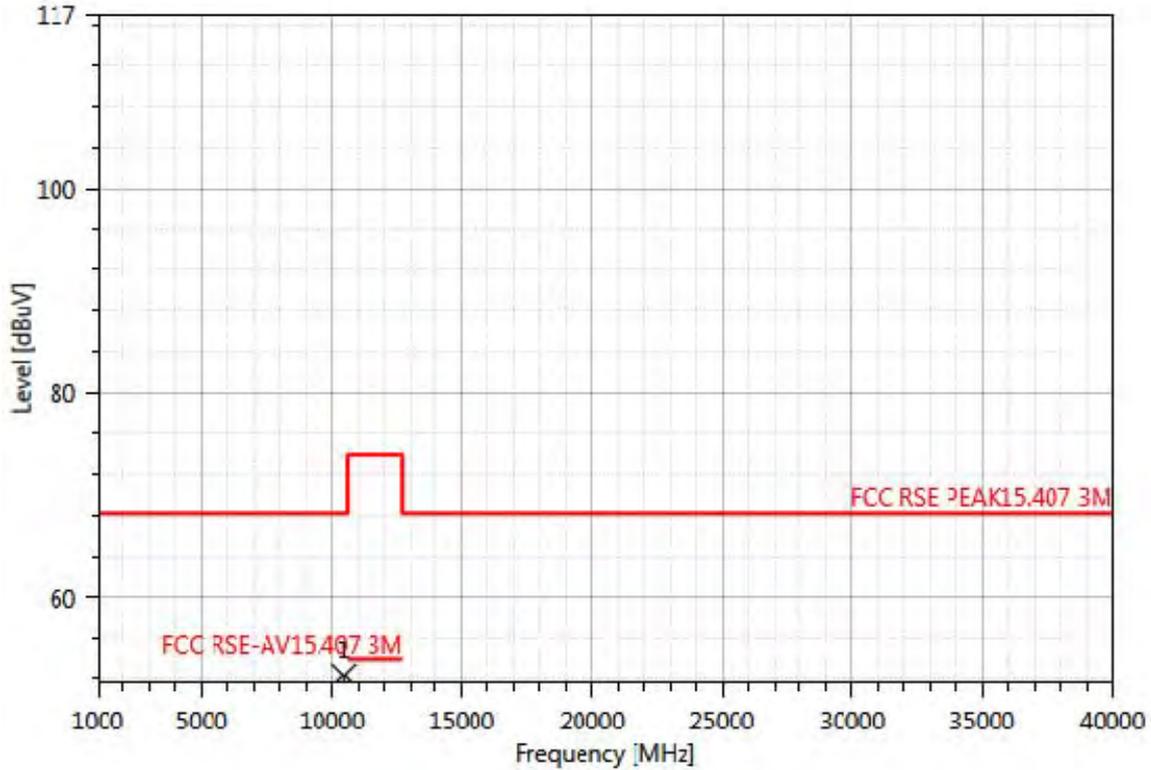
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Operation Mode :	802.11n40B1	Test Date :	05/06/2016 11:38:09
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
10460.00	H	Peak	52.40	33.86	18.54	68.30	-15.90

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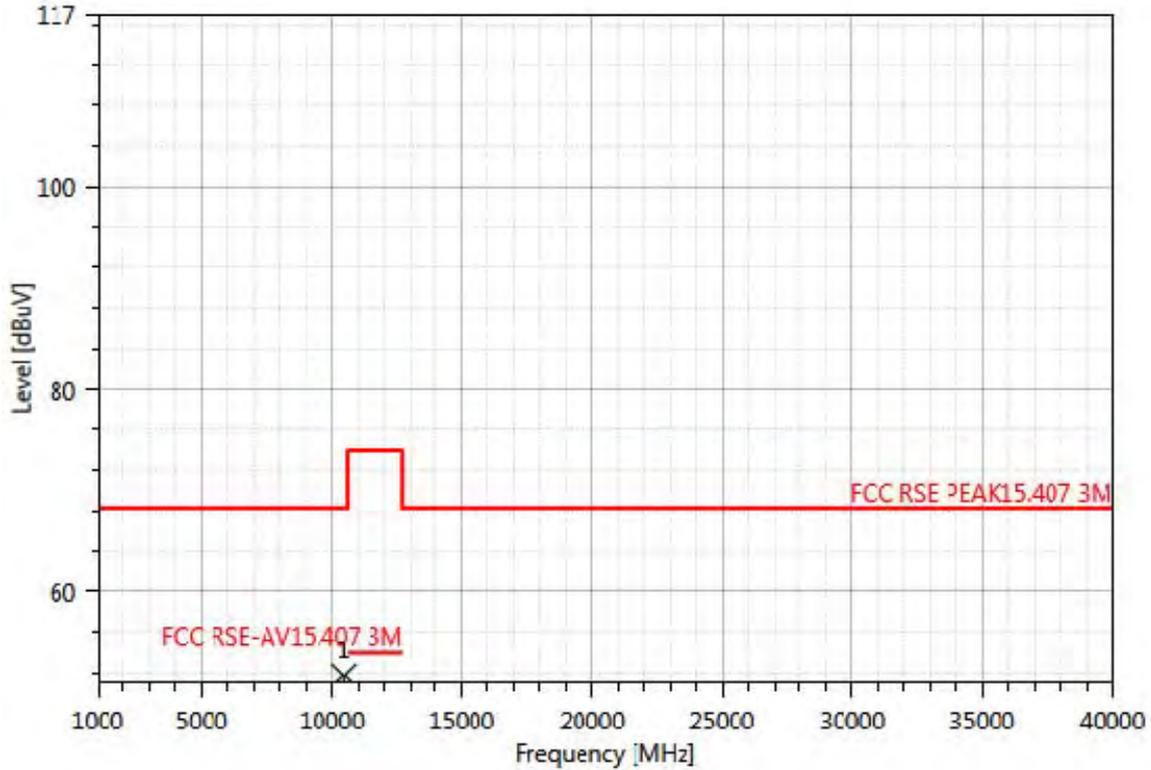
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Operation Mode :	802.11n40B1	Test Date :	05/06/2016 11:38:31
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10460.00	H	Peak	51.76	33.22	18.54	68.30	-16.54

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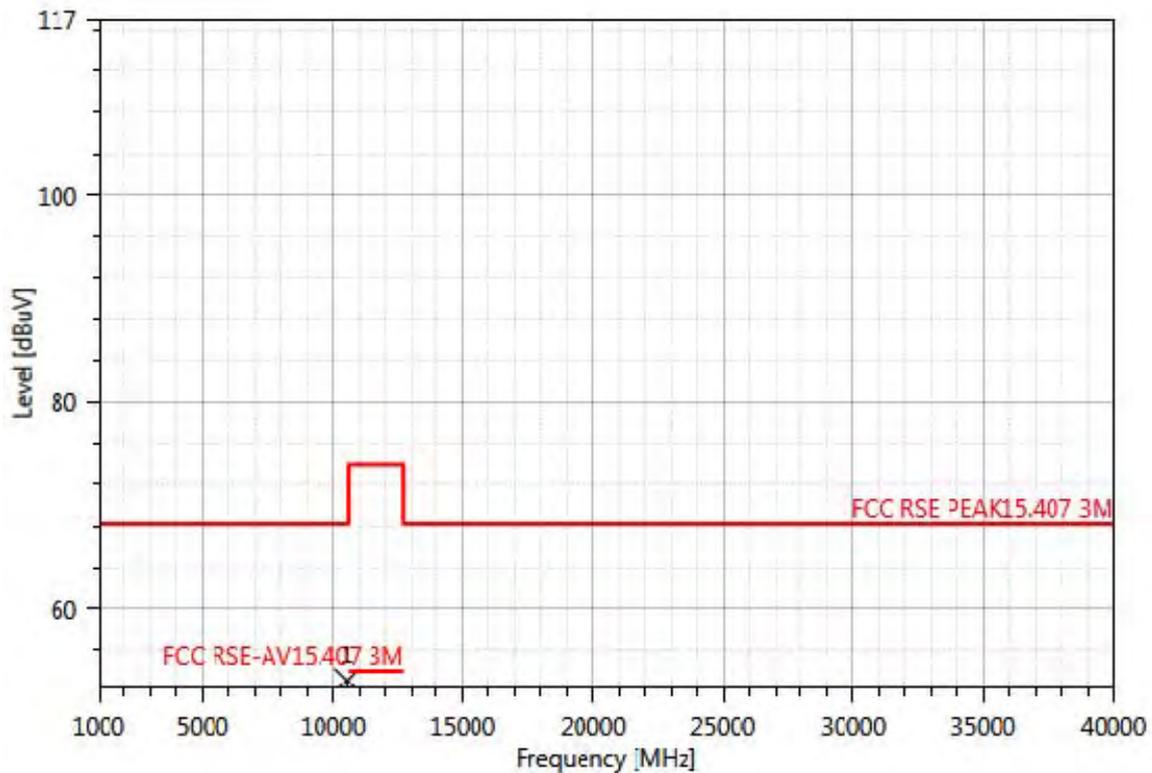
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40B2	Test Date :	05/06/2016 11:43:41
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10540.00	H	Peak	53.08	33.91	19.17	68.30	-15.22

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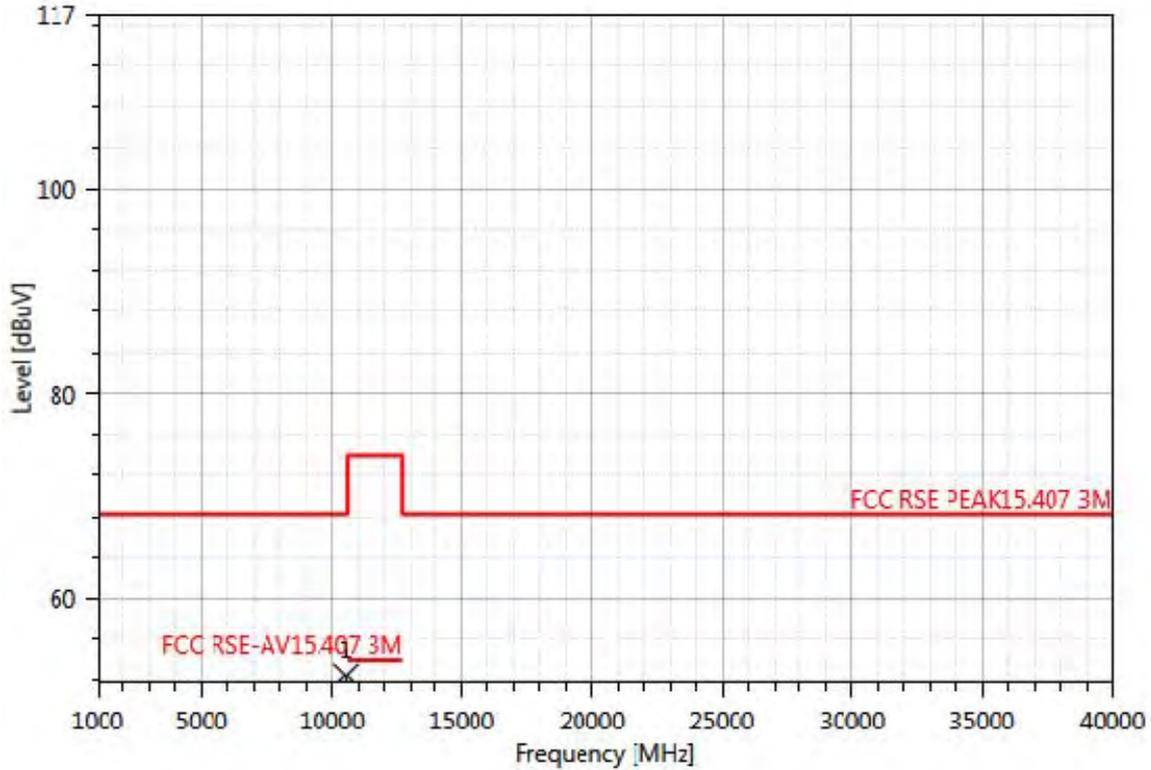
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Operation Mode : 802.11n40B2      Test Date : 05/06/2016 11:44:03  
 Fundamental Frequency : 5270 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
10540.00	H	Peak	52.51	33.34	19.17	68.30	-15.79

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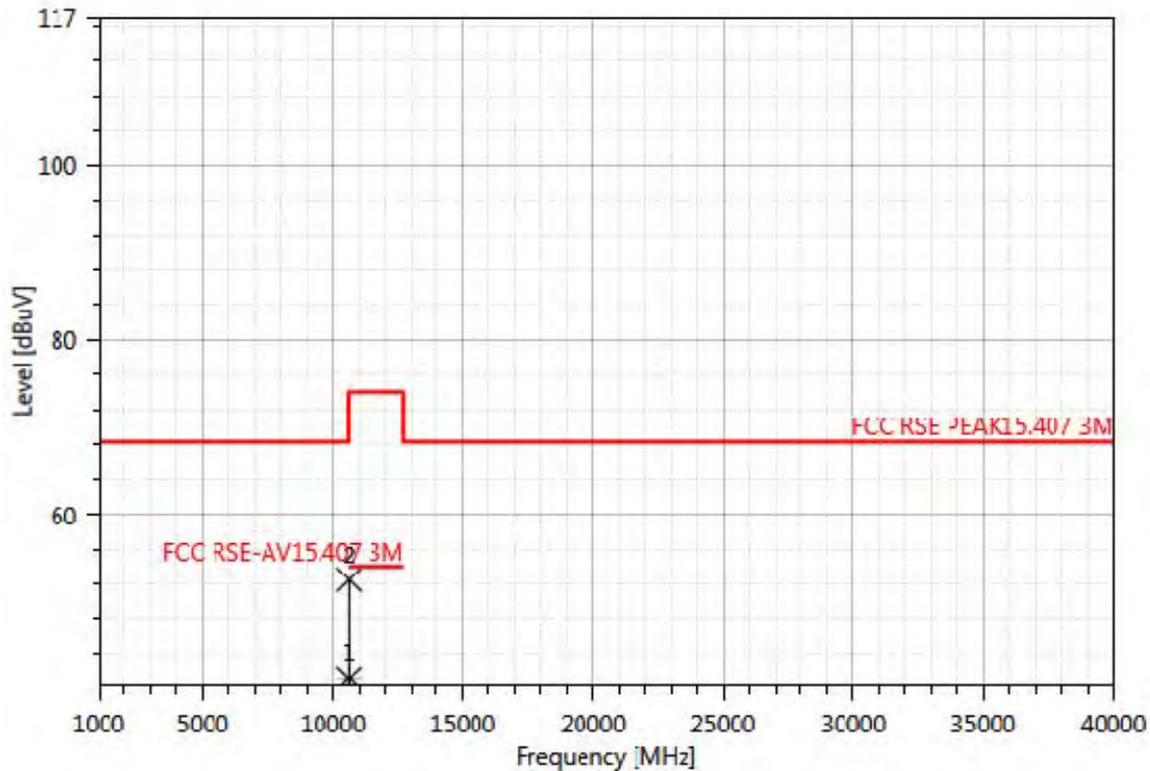
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Operation Mode :	802.11n40B2	Test Date :	05/06/2016 11:48:22
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	41.17	22.06	19.11	54.00	-12.83
10620.00	H	Peak	52.48	33.37	19.11	74.00	-21.52

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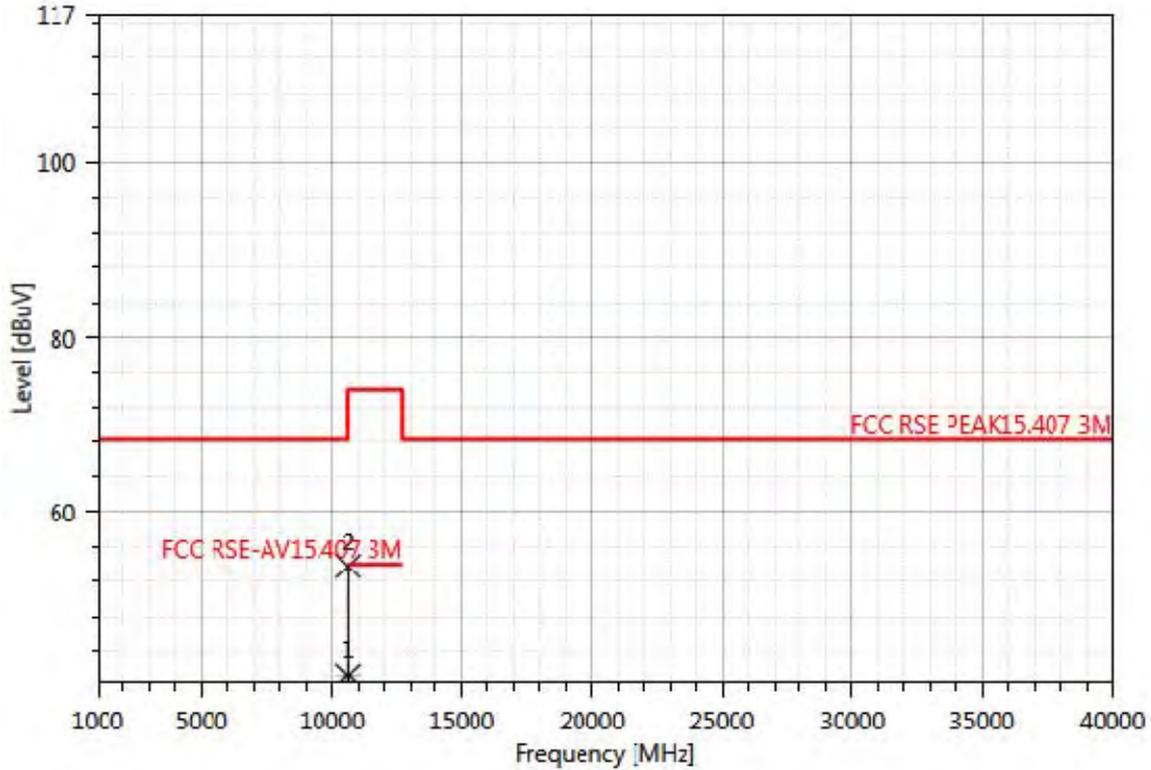
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Operation Mode :	802.11n40B2	Test Date :	05/06/2016 11:48:44
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10620.00	H	Average	41.26	22.15	19.11	54.00	-12.74
10620.00	H	Peak	53.75	34.64	19.11	74.00	-20.25

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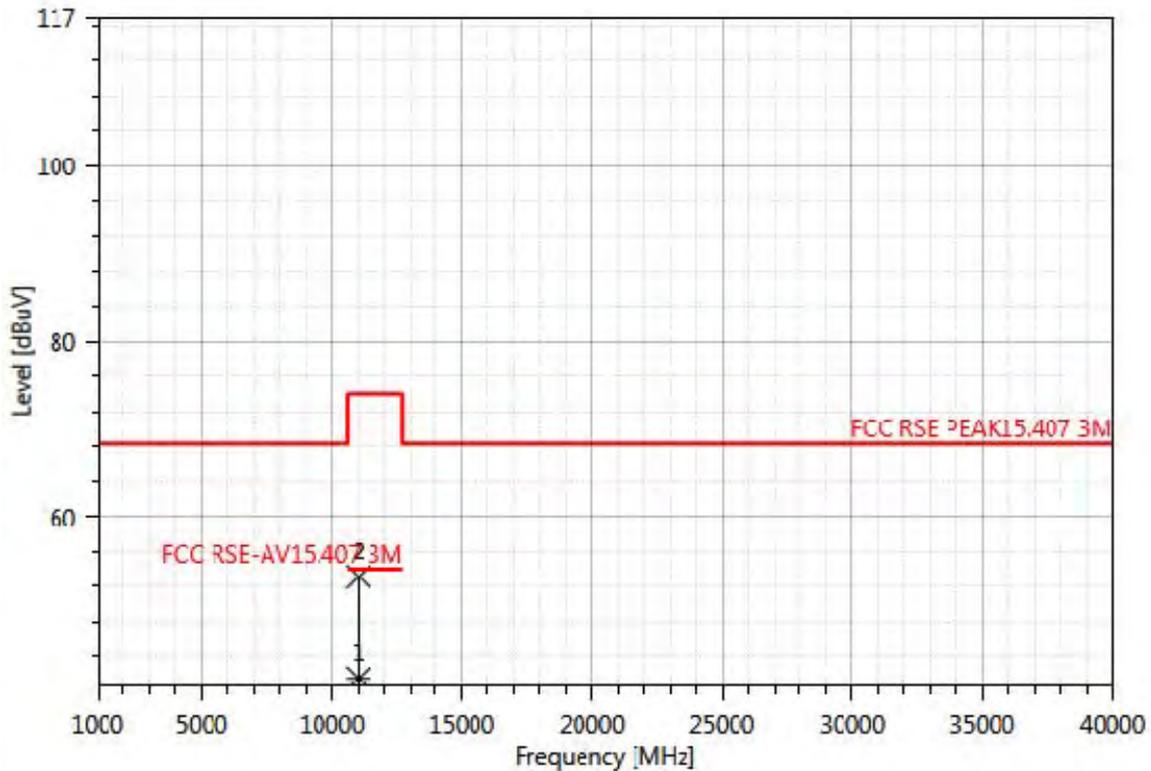
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40B3	Test Date :	05/06/2016 14:24:06
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	41.49	21.33	20.16	54.00	-12.51
11020.00	H	Peak	53.11	32.95	20.16	74.00	-20.89

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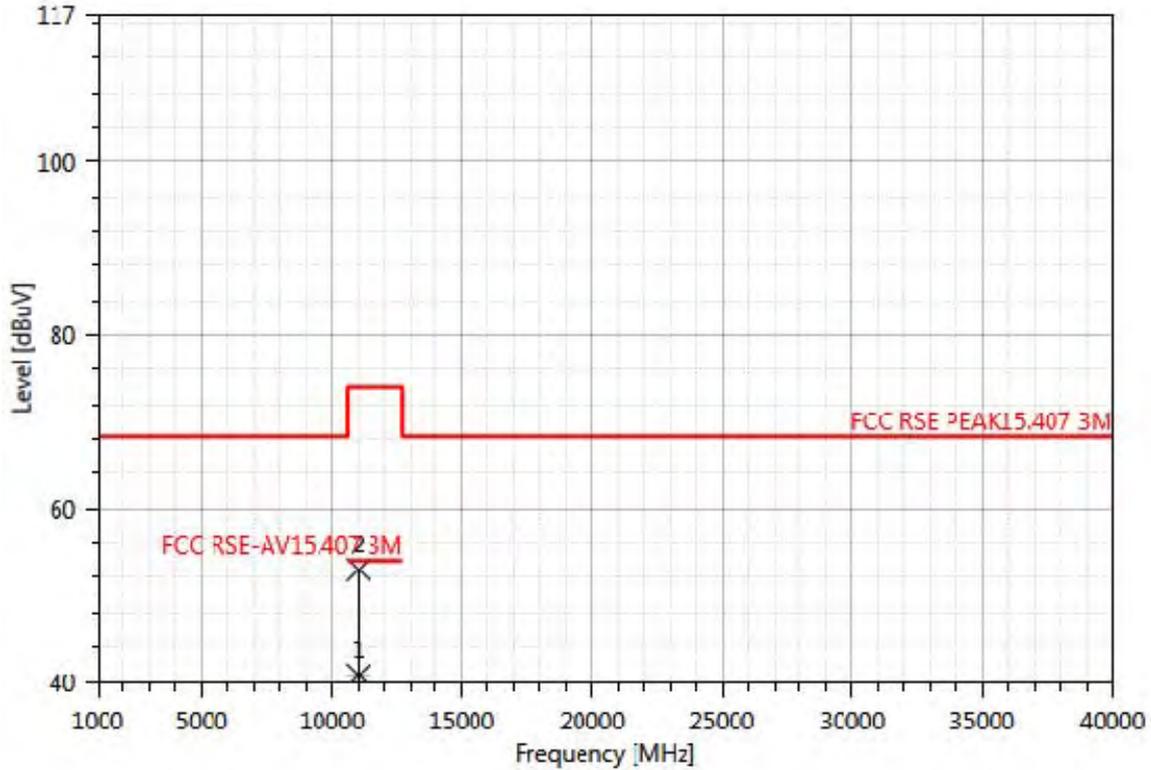
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Operation Mode : 802.11n40B3      Test Date : 05/06/2016 14:24:28  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
11020.00	H	Average	40.76	20.60	20.16	54.00	-13.24
11020.00	H	Peak	52.95	32.79	20.16	74.00	-21.05

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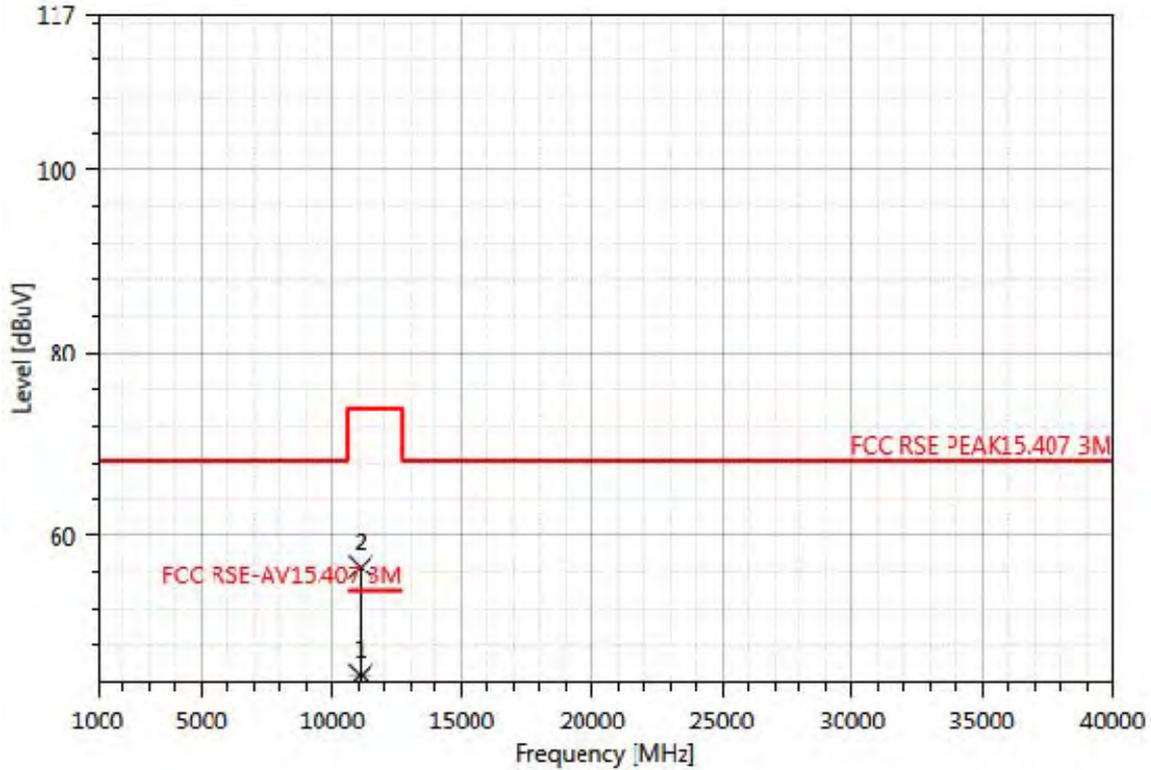
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Operation Mode :	802.11n40B3	Test Date :	05/06/2016 14:31:51
Fundamental Frequency :	5550 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11100.00	H	Average	44.77	24.45	20.32	54.00	-9.23
11100.00	H	Peak	56.60	36.28	20.32	74.00	-17.40

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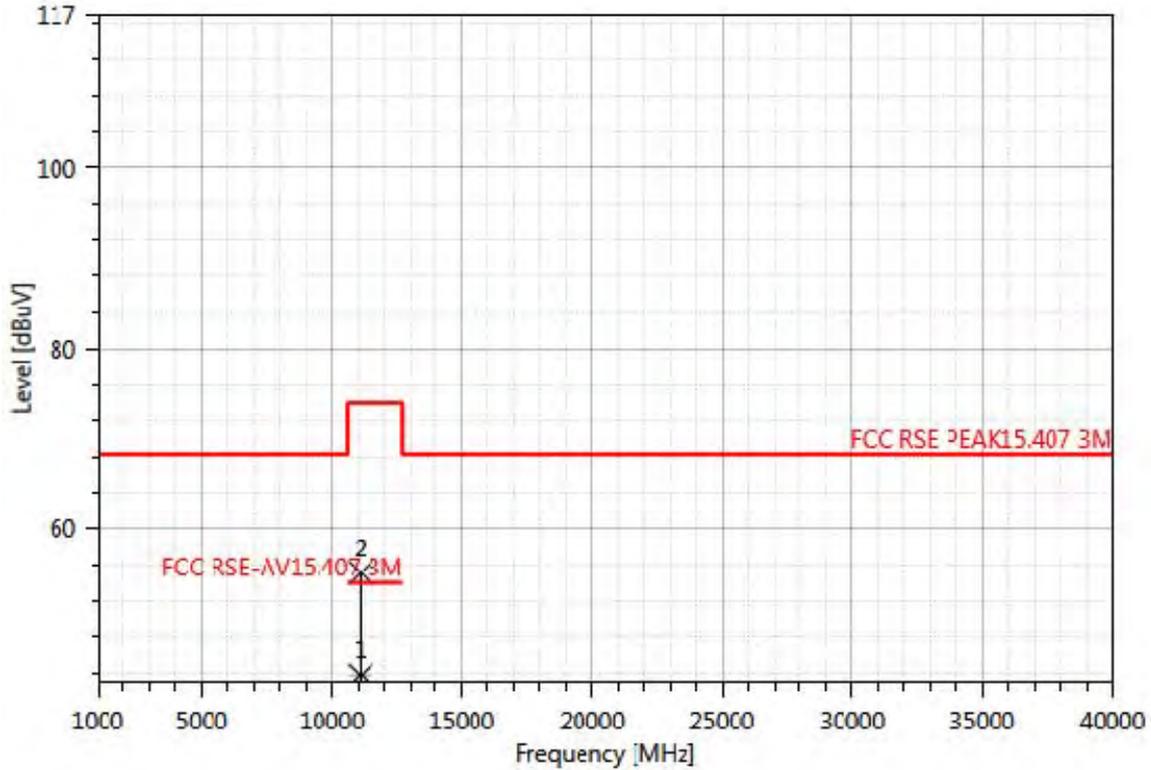
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Operation Mode : 802.11n40B3      Test Date : 05/06/2016 14:32:14  
 Fundamental Frequency : 5550 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
11100.00	H	Average	43.76	23.44	20.32	54.00	-10.24
11100.00	H	Peak	55.14	34.82	20.32	74.00	-18.86

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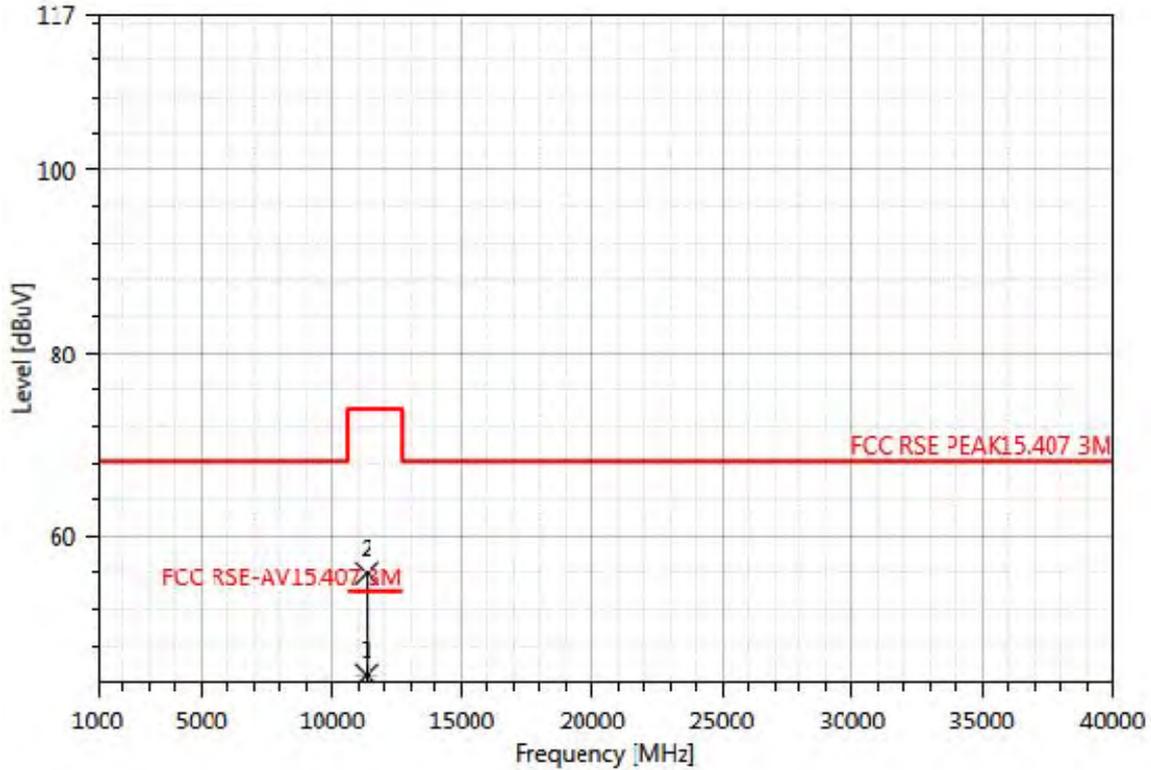
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Operation Mode :	802.11n40B3	Test Date :	05/06/2016 14:44:39
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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	44.83	24.45	20.38	54.00	-9.17
11340.00	H	Peak	55.96	35.58	20.38	74.00	-18.04

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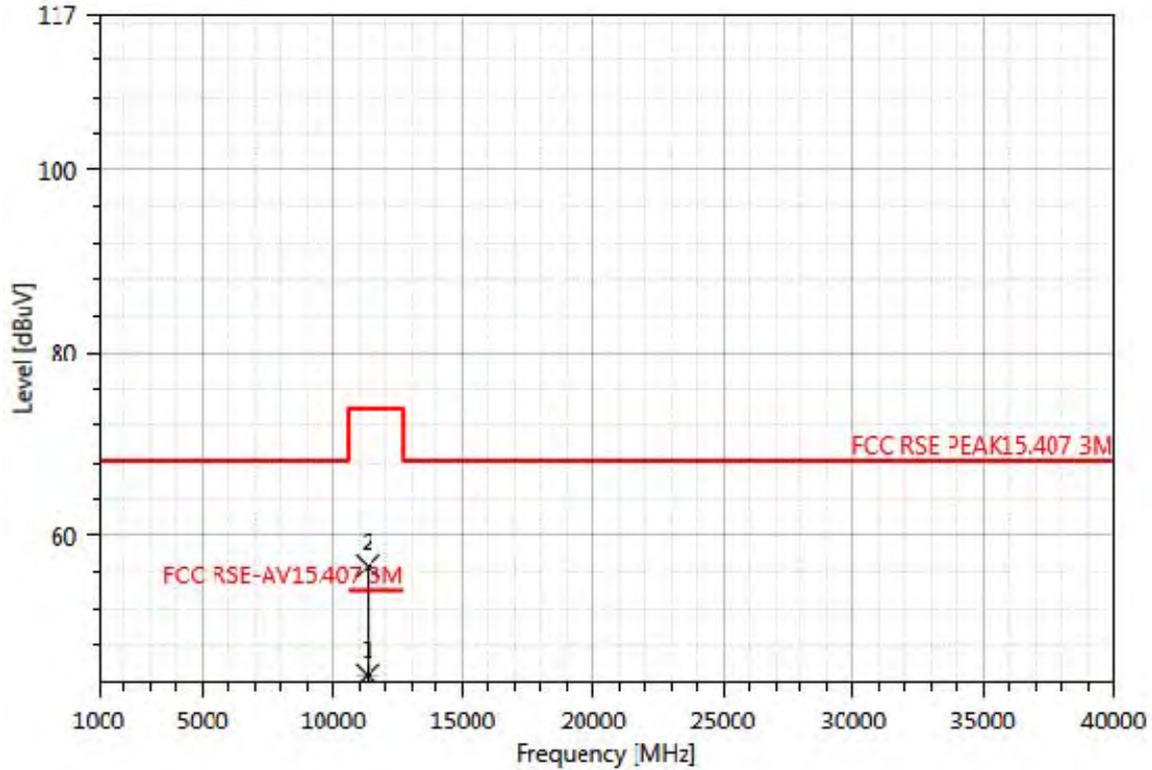
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Operation Mode :	802.11n40B3	Test Date :	05/06/2016 14:45:01
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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	44.75	24.37	20.38	54.00	-9.25
11340.00	H	Peak	56.69	36.30	20.38	74.00	-17.31

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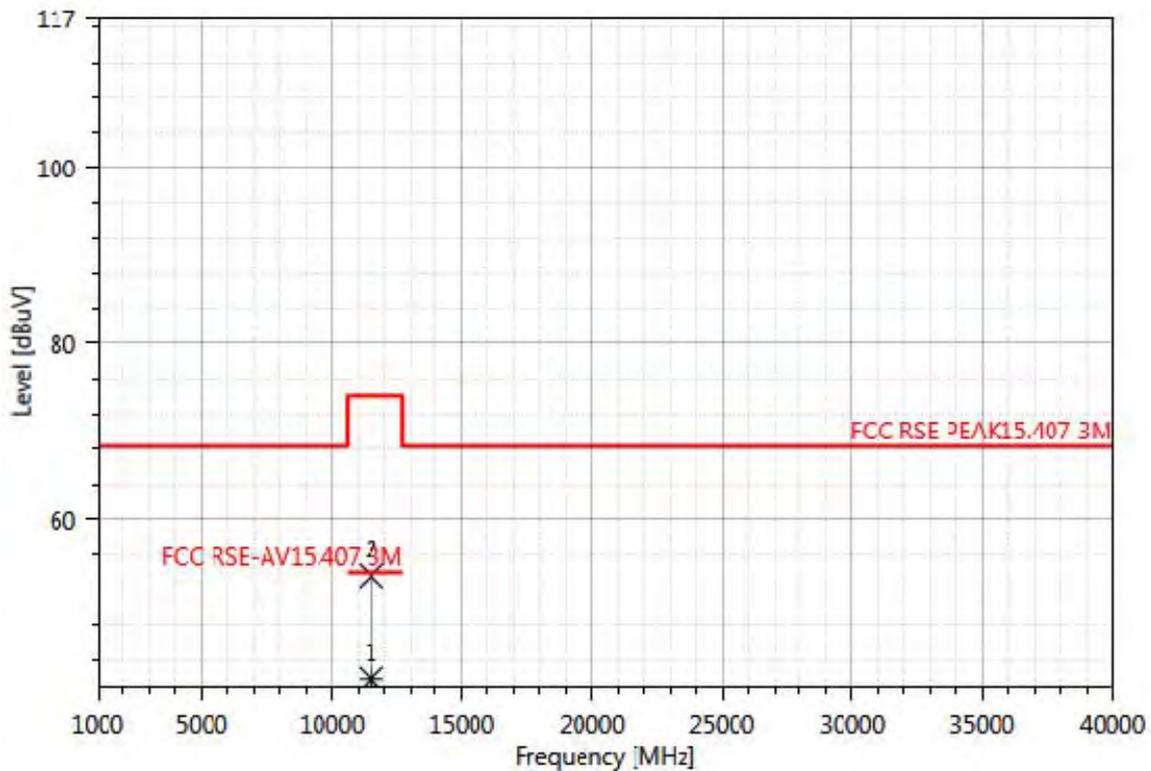
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### Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40B4	Test Date :	05/06/2016 16:03:42
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	41.90	21.51	20.39	54.00	-12.10
11510.00	H	Peak	53.64	33.25	20.39	74.00	-20.36

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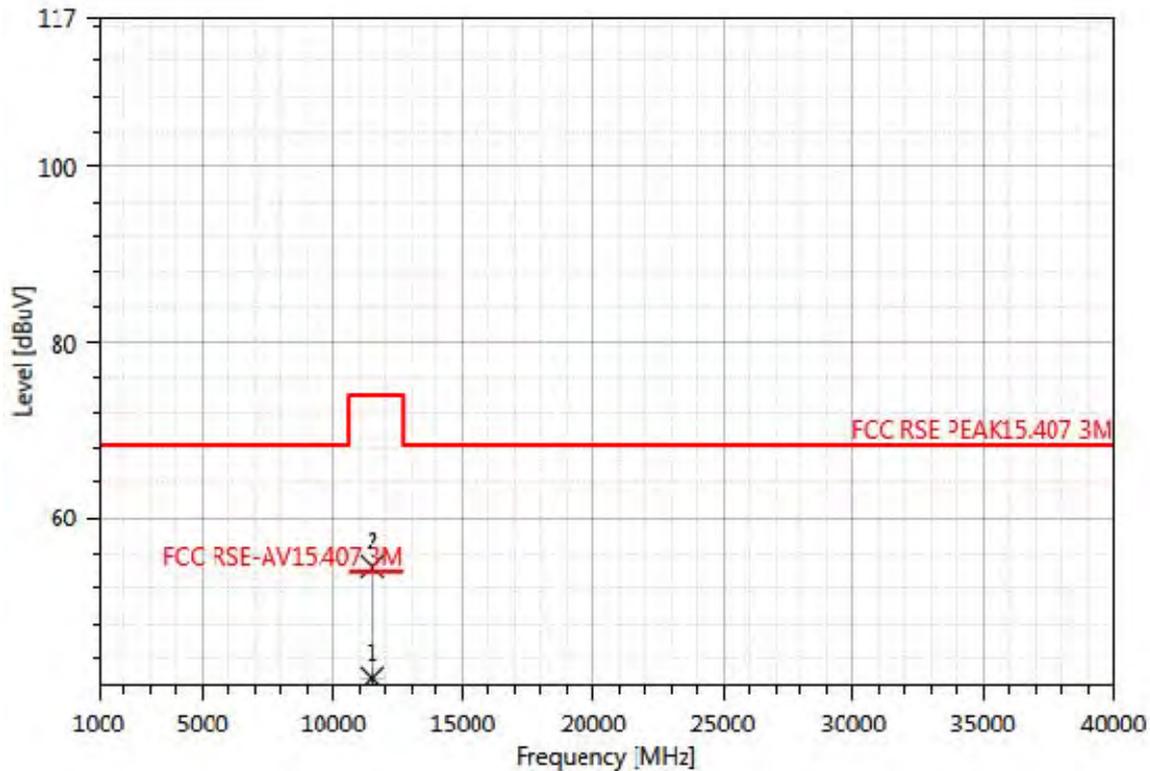
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Operation Mode :	802.11n40B4	Test Date :	05/06/2016 16:04:04
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11510.00	H	Average	41.74	21.35	20.39	54.00	-12.26
11510.00	H	Peak	54.43	34.05	20.39	74.00	-19.57

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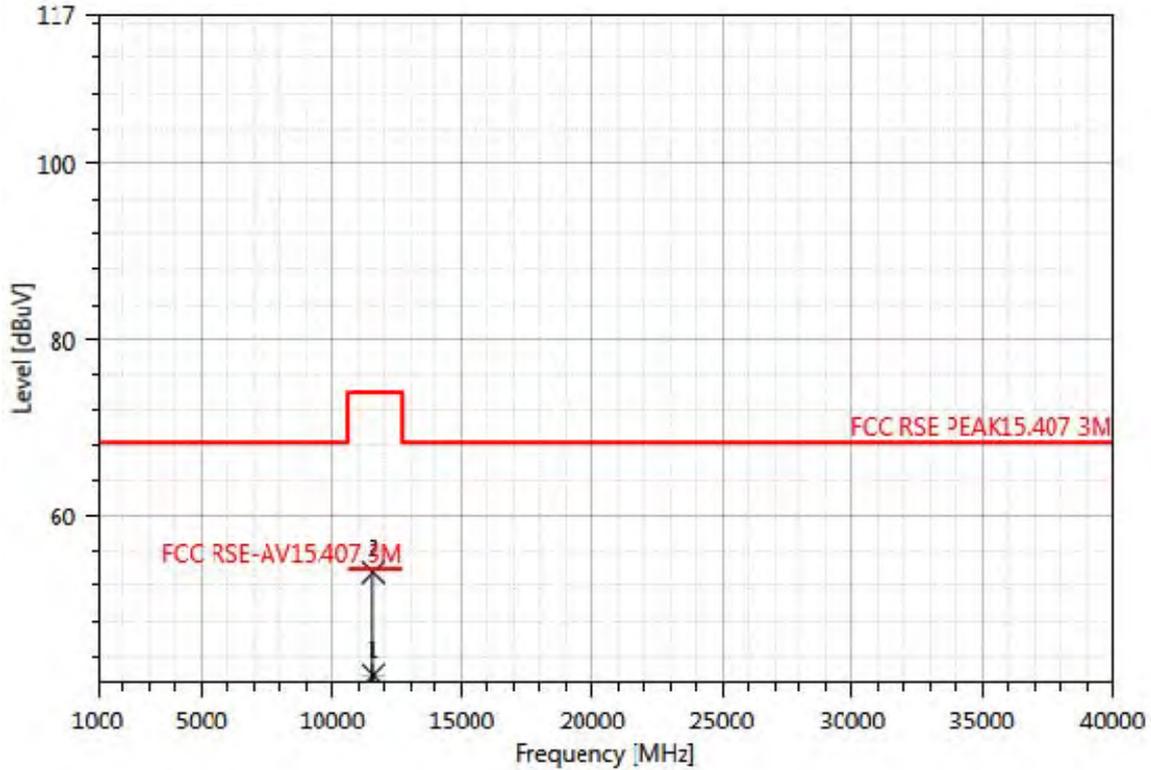
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Operation Mode :	802.11n40B4	Test Date :	05/06/2016 16:11:02
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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
11590.00	H	Average	41.82	21.39	20.43	54.00	-12.18
11590.00	H	Peak	53.52	33.08	20.43	74.00	-20.48

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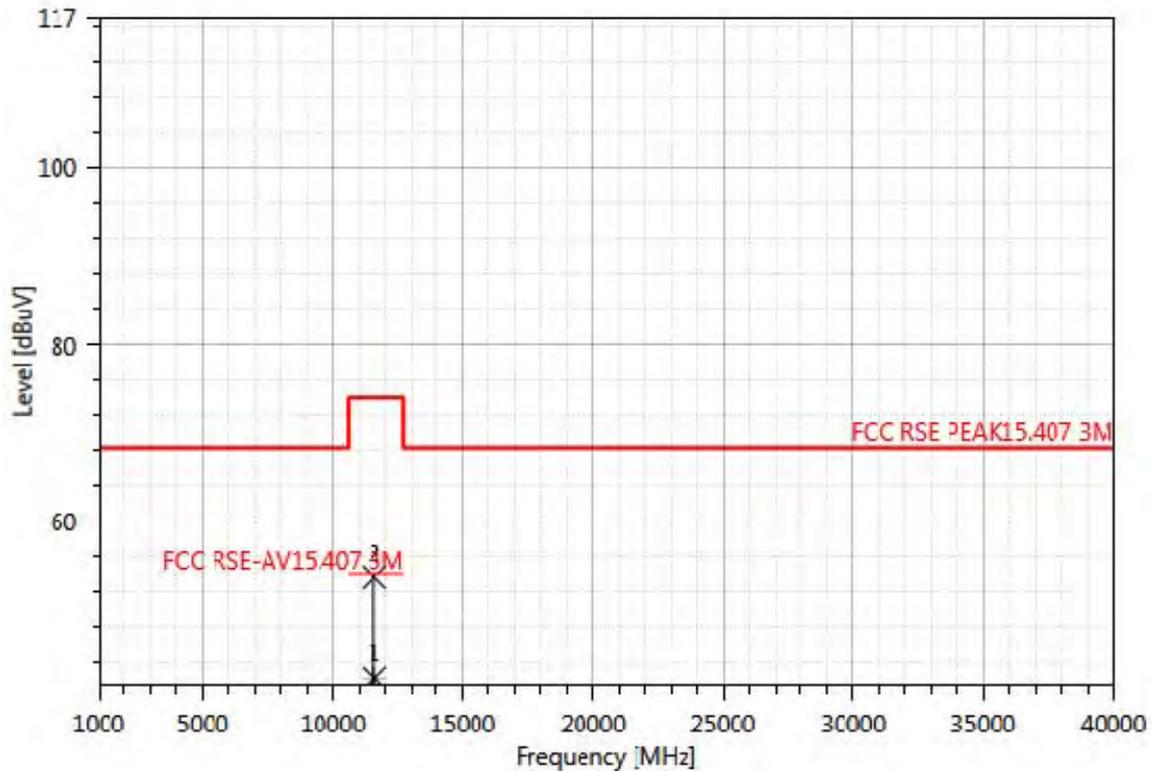
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Operation Mode : 802.11n40B4      Test Date : 05/06/2016 16:11:24  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	42.20	21.77	20.43	54.00	-11.80
11590.00	H	Peak	53.63	33.20	20.43	74.00	-20.37

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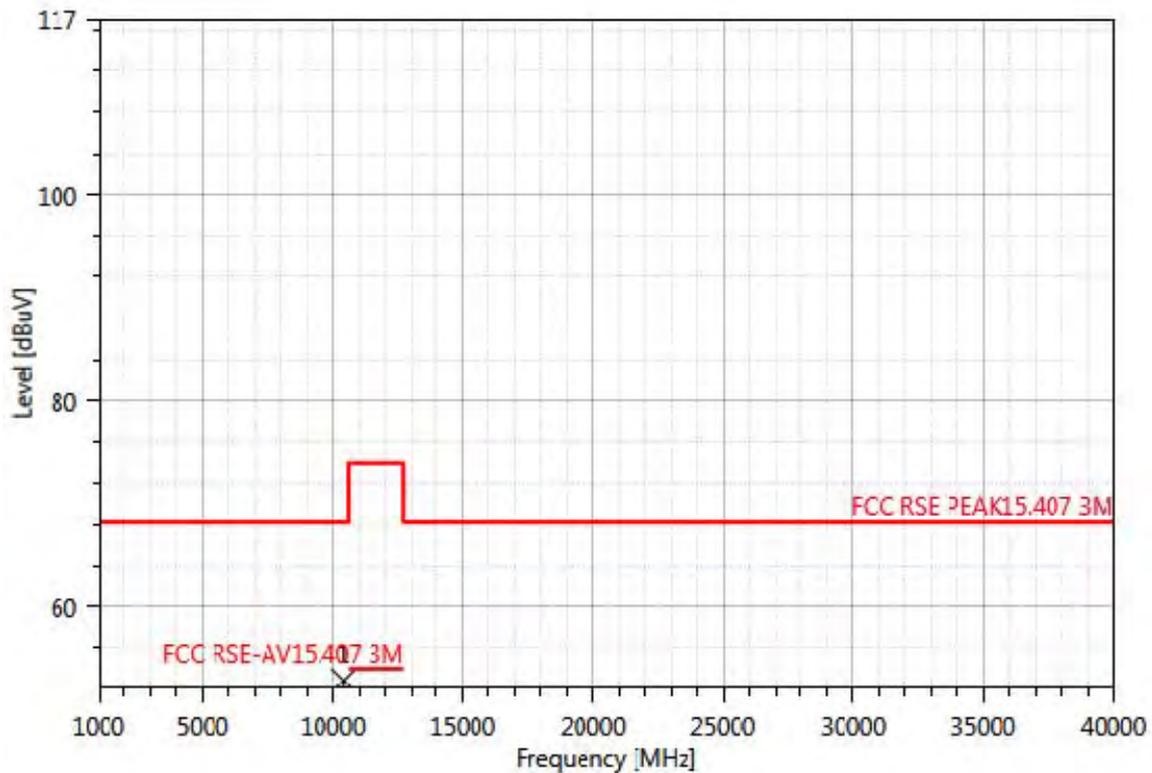
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	01/16/2017
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Mike
EUT Pol. :	E2 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
10420.00	H	Peak	52.86	34.15	18.71	68.30	-15.44

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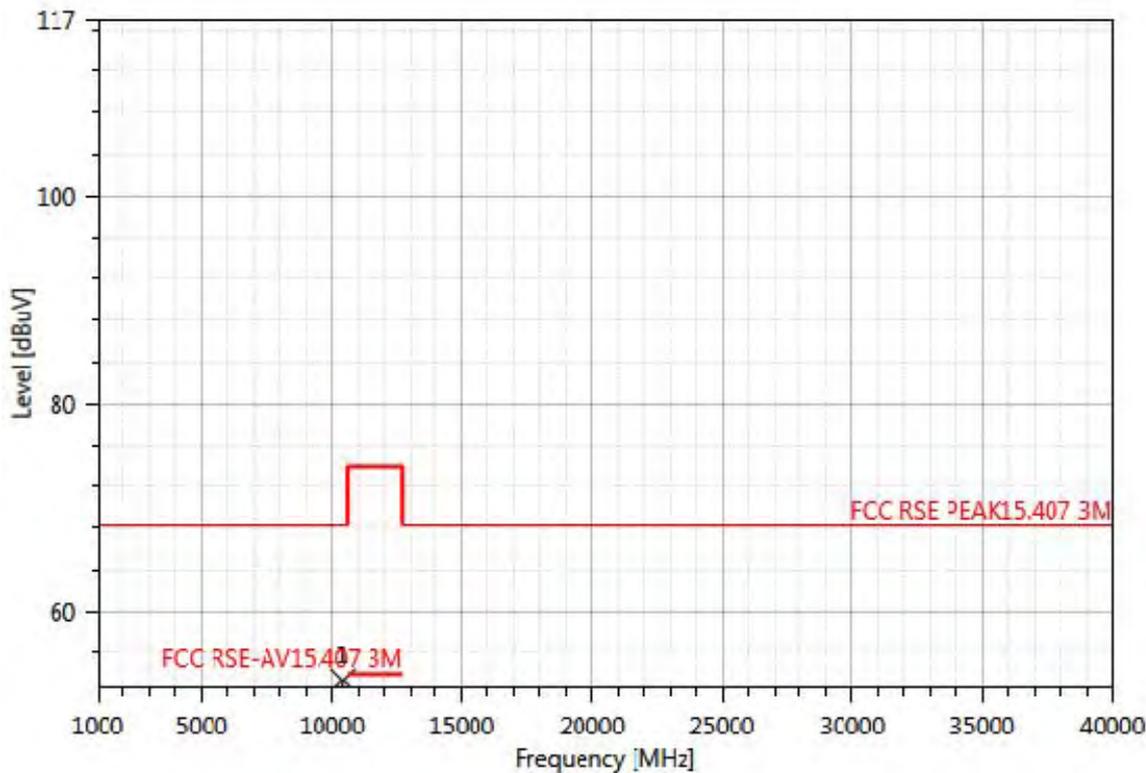
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Operation Mode : 802.11ac80B1      Test Date : 01/16/2017  
 Fundamental Frequency : 5210 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Mike  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



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	dB $\mu$ V/m	dB
10420.00	H	Peak	53.35	34.64	18.71	68.30	-14.95

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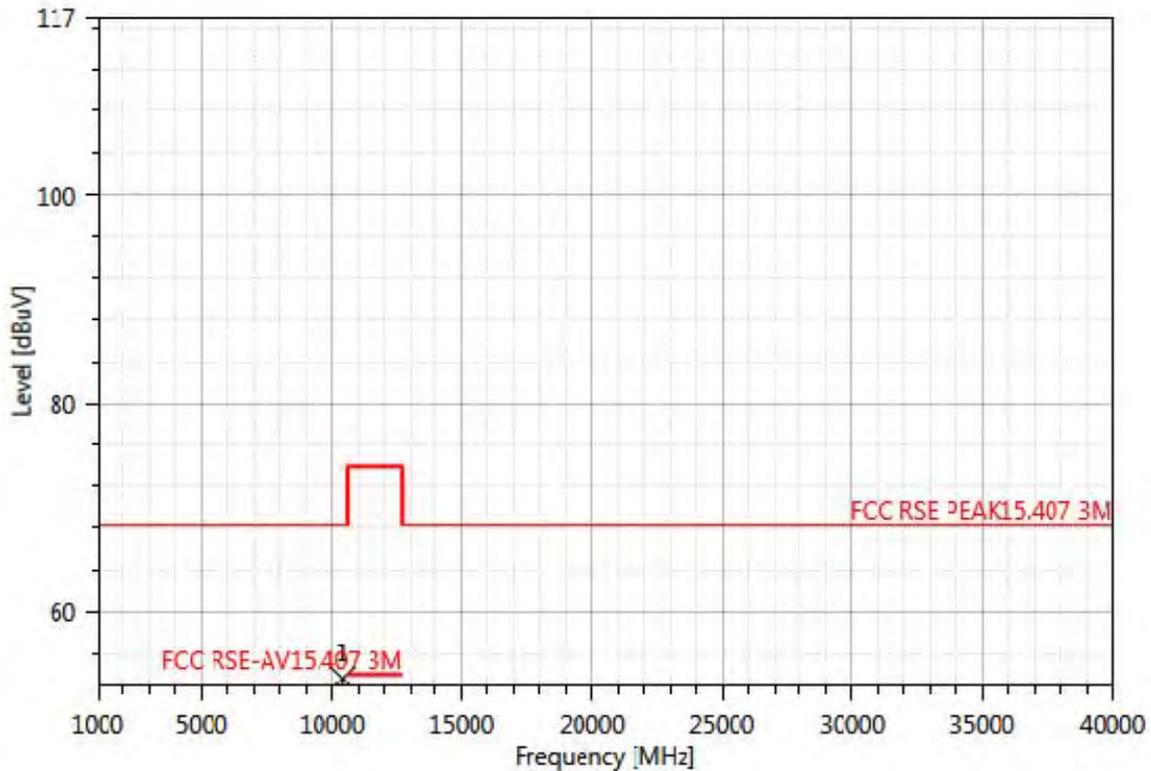
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80B1	Test Date :	05/06/2016 13:18:11
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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
10420.00	H	Peak	53.61	34.90	18.71	68.30	-14.69

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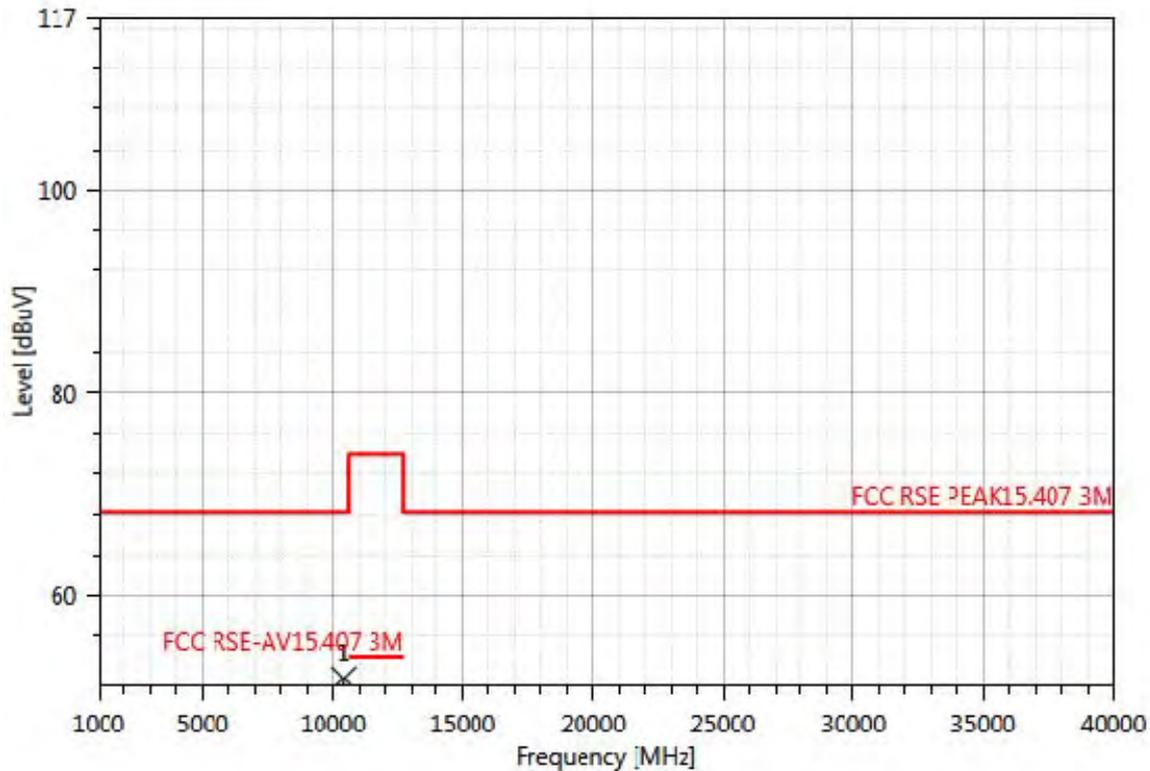
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Operation Mode :	802.11ac80B1	Test Date :	05/06/2016 13:18:33
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
10420.00	H	Peak	51.88	33.17	18.71	68.30	-16.42

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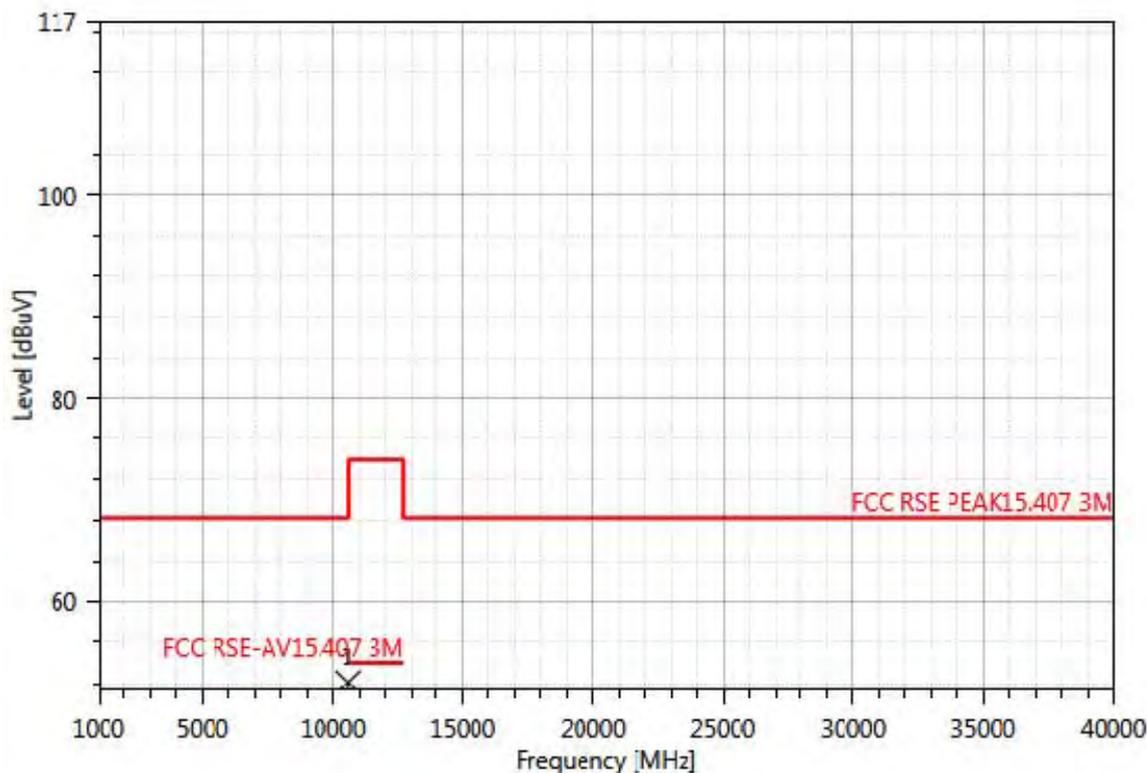
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80B2	Test Date :	05/06/2016 13:23:48
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 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
10580.00	H	Peak	52.10	33.23	18.88	68.30	-16.20

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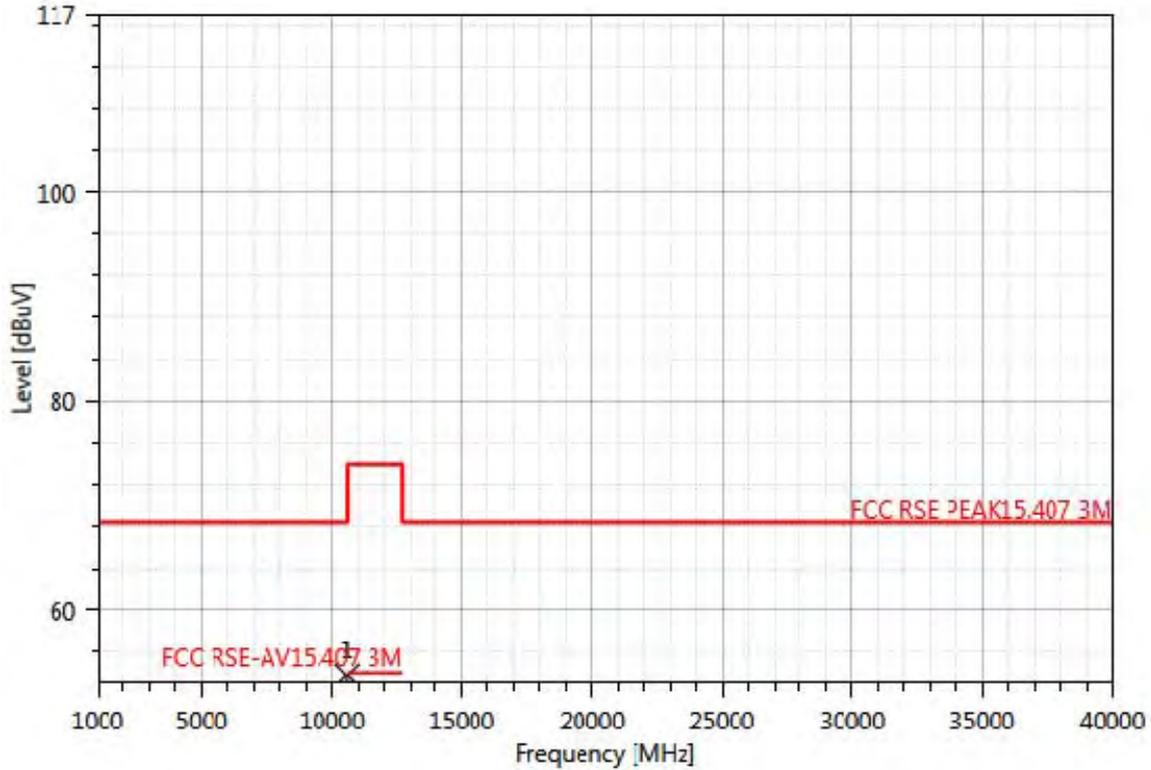
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Operation Mode : 802.11ac80B2      Test Date : 05/06/2016 13:24:11  
 Fundamental Frequency : 5290 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
10580.00	H	Peak	53.73	34.86	18.88	68.30	-14.57

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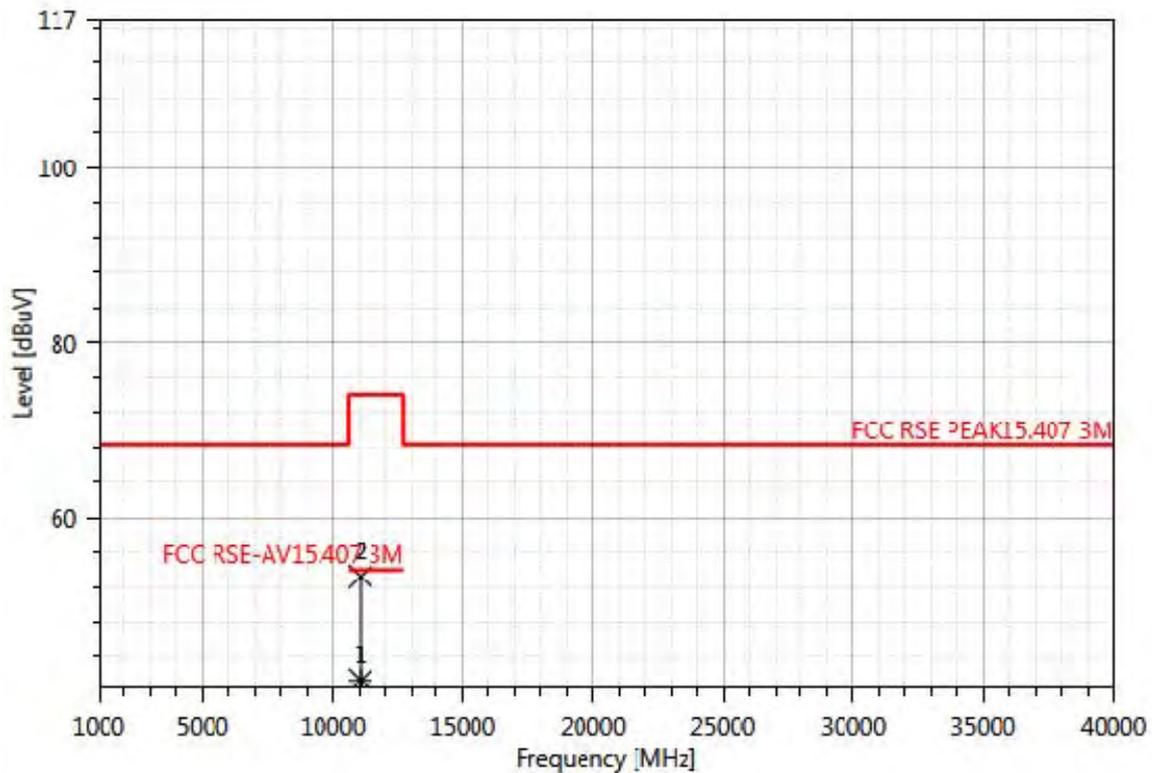
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80B3	Test Date :	05/06/2016 14:54:44
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	41.32	21.06	20.26	54.00	-12.68
11060.00	H	Peak	53.21	32.95	20.26	74.00	-20.79

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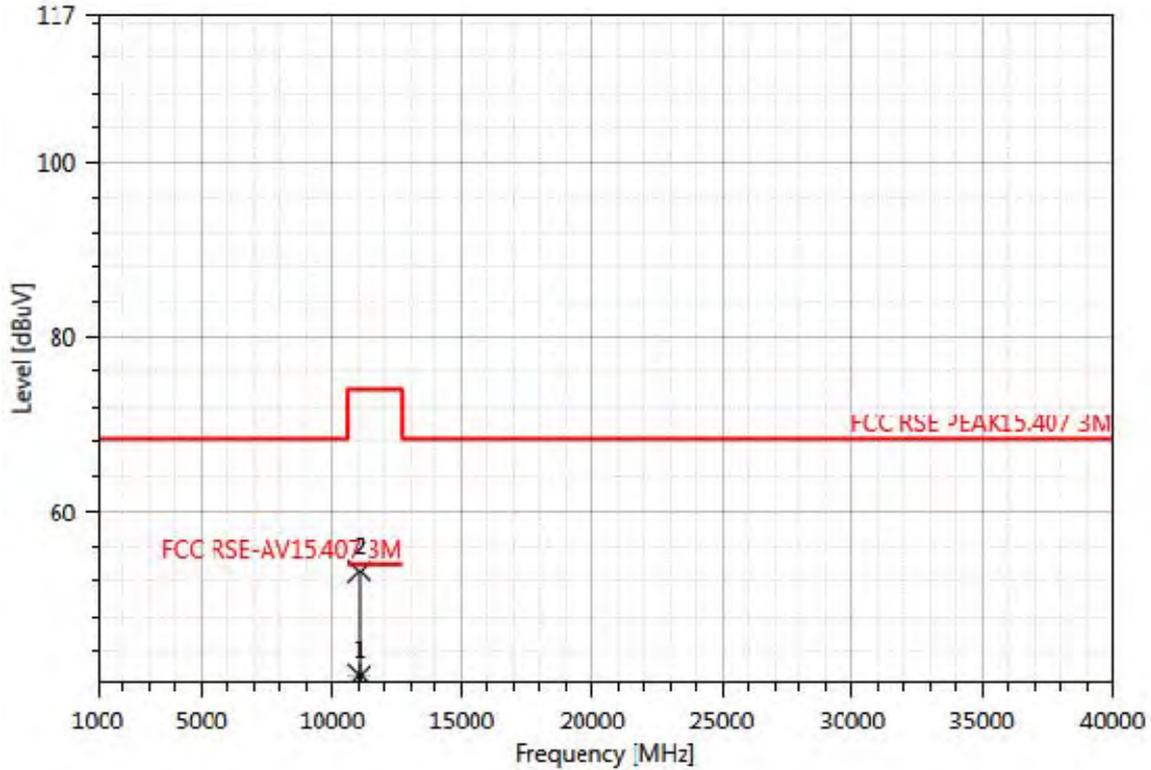
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Operation Mode : 802.11ac80B3      Test Date : 05/06/2016 14:55:06  
 Fundamental Frequency : 5530 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	41.19	20.93	20.26	54.00	-12.81
11060.00	H	Peak	53.10	32.84	20.26	74.00	-20.90

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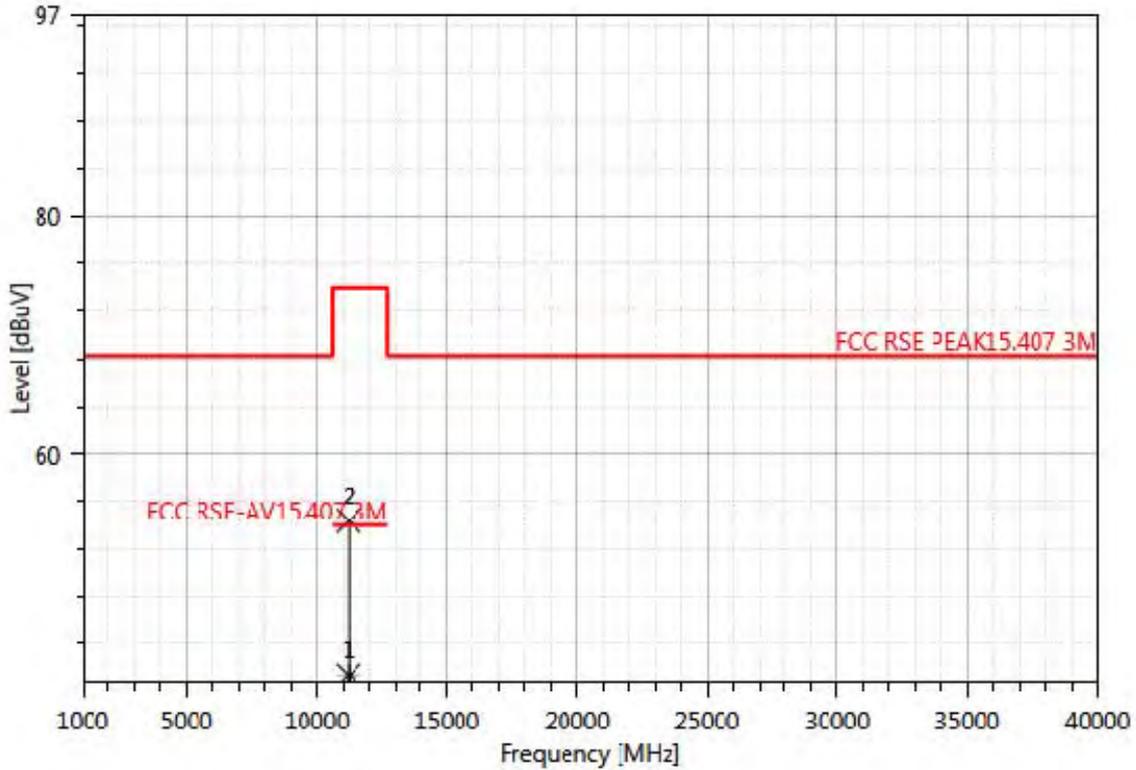
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Operation Mode : 802.11ac80B3      Test Date : 05/06/2016 15:01:36  
 Fundamental Frequency : 5610 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH MID      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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	41.36	20.88	20.48	54.00	-12.64
11220.00	H	Peak	54.37	33.90	20.48	74.00	-19.63

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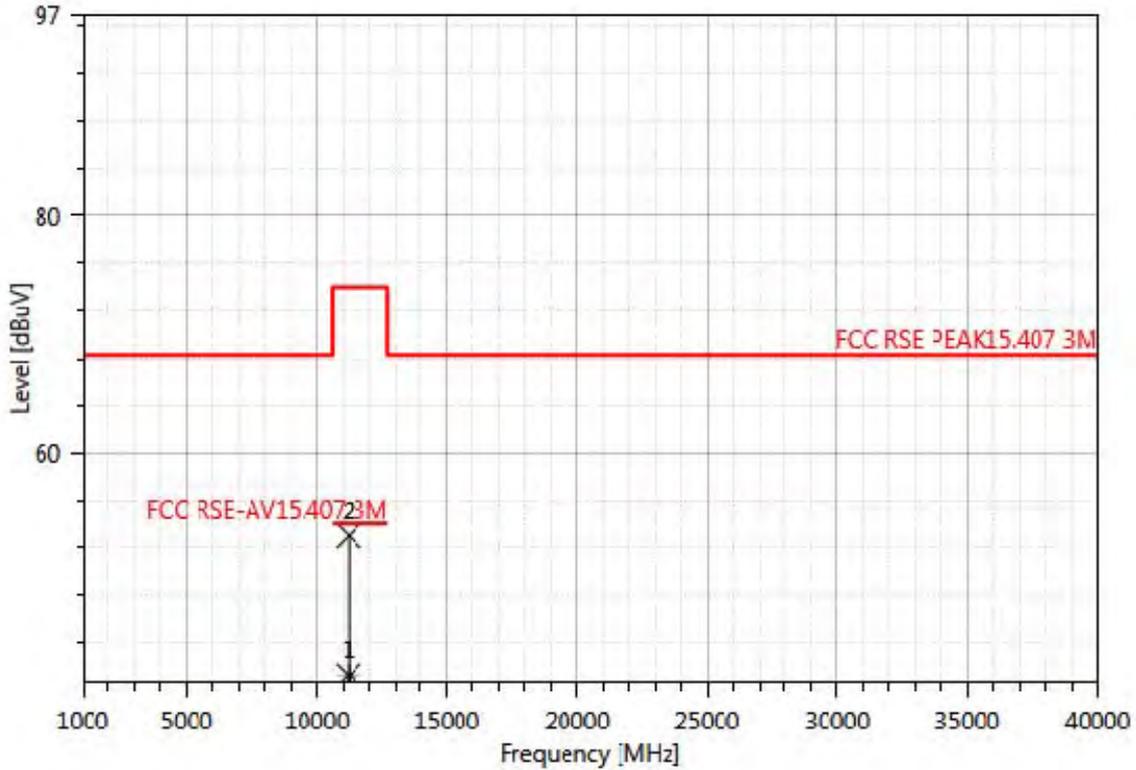
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Operation Mode :	802.11ac80B3	Test Date :	05/06/2016 15:01:58
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Kane
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	HORIZONTAL



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
11220.00	H	Average	41.25	20.77	20.48	54.00	-12.75
11220.00	H	Peak	53.00	32.53	20.48	74.00	-21.00

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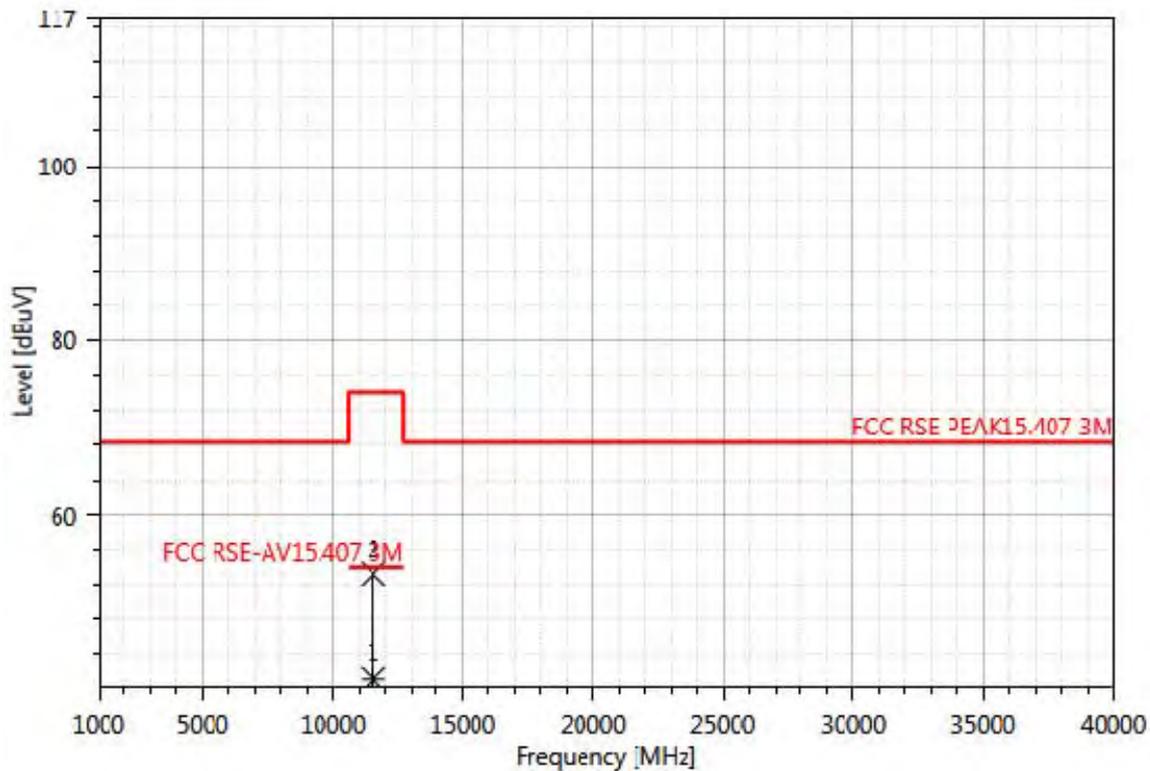
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### Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80B4	Test Date :	05/06/2016 16:18:07
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Tx CH HIGH	Test Engineer :	Kane
EUT Pol. :	E2 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
11550.00	H	Average	41.19	20.67	20.52	54.00	-12.81
11550.00	H	Peak	53.25	32.74	20.52	74.00	-20.75

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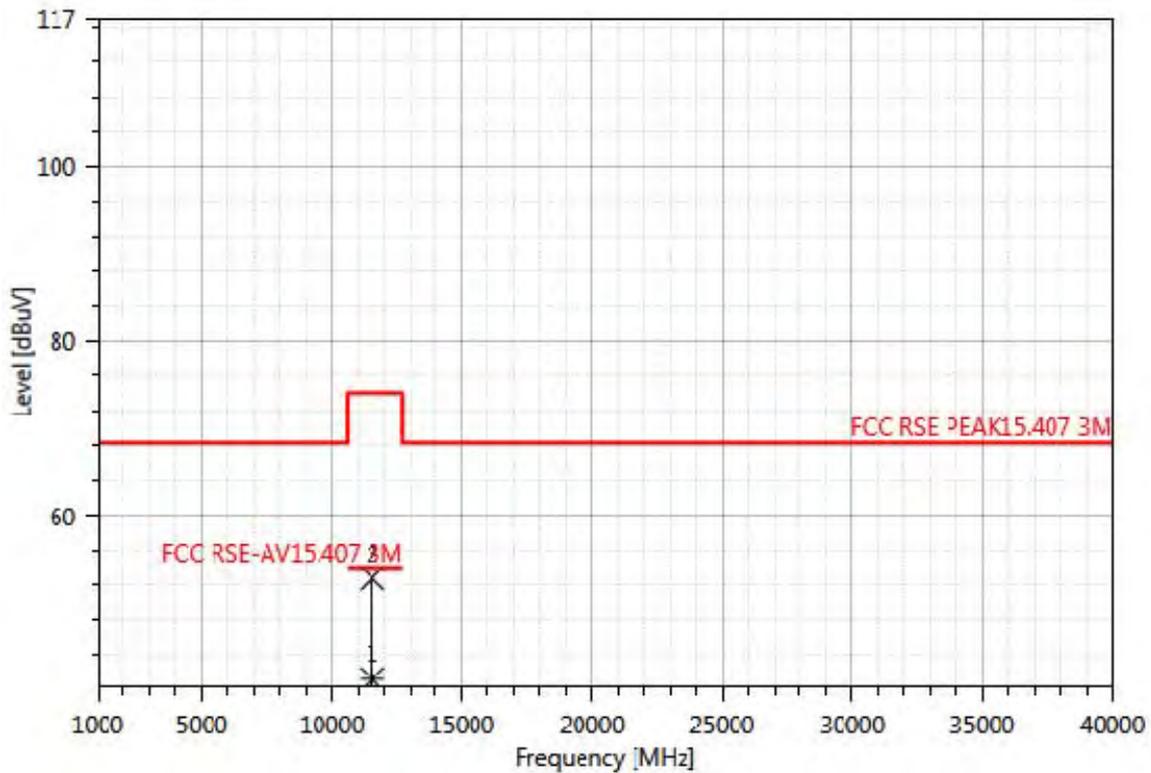
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Operation Mode : 802.11ac80B4      Test Date : 05/06/2016 16:18:29  
 Fundamental Frequency : 5775 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Tx CH HIGH      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : 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
11550.00	H	Average	41.17	20.65	20.52	54.00	-12.83
11550.00	H	Peak	52.74	32.22	20.52	74.00	-21.26

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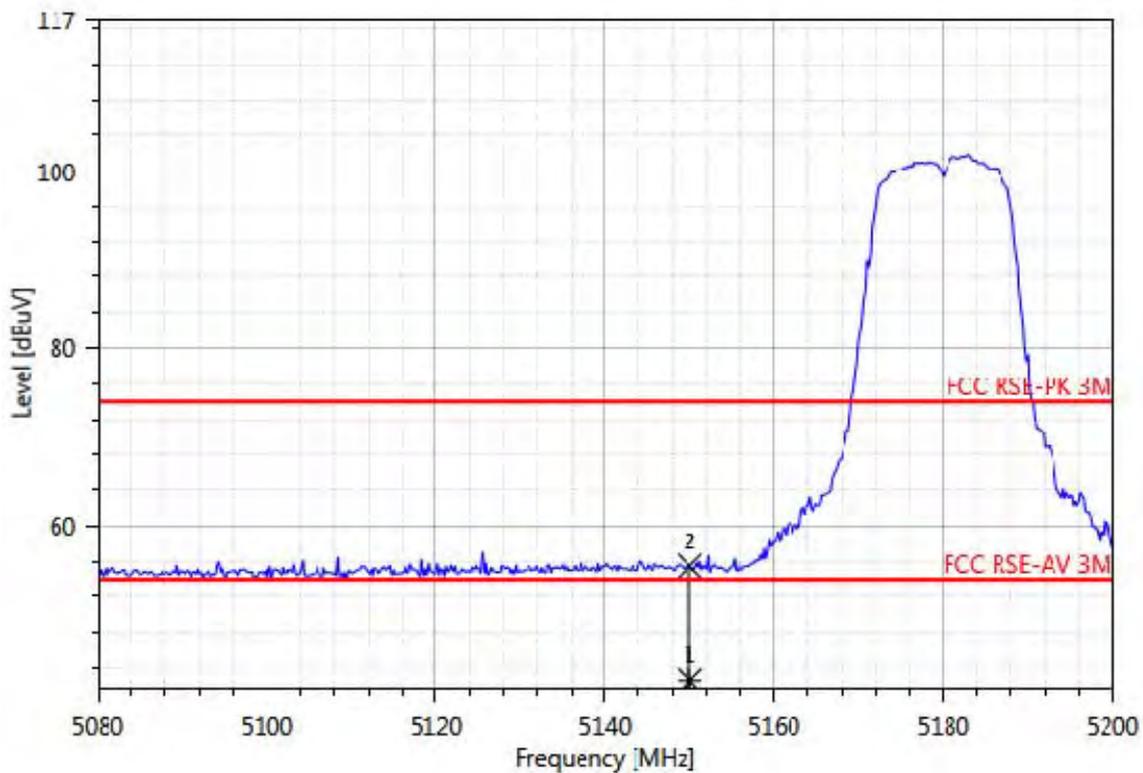
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### Band edge falling to restricted band

#### 802.11a mode

Operation Mode :	802.11aB1	Test Date :	05/05/2016
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	21 deg_C / 62 RH
Operation Band :	Bandedge CH LOW	Test Engineer :	Kane
EUT Pol. :	E2 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	42.62	36.74	5.88	54.00	-11.38
5150.00	E	Peak	55.51	49.63	5.88	74.00	-18.49

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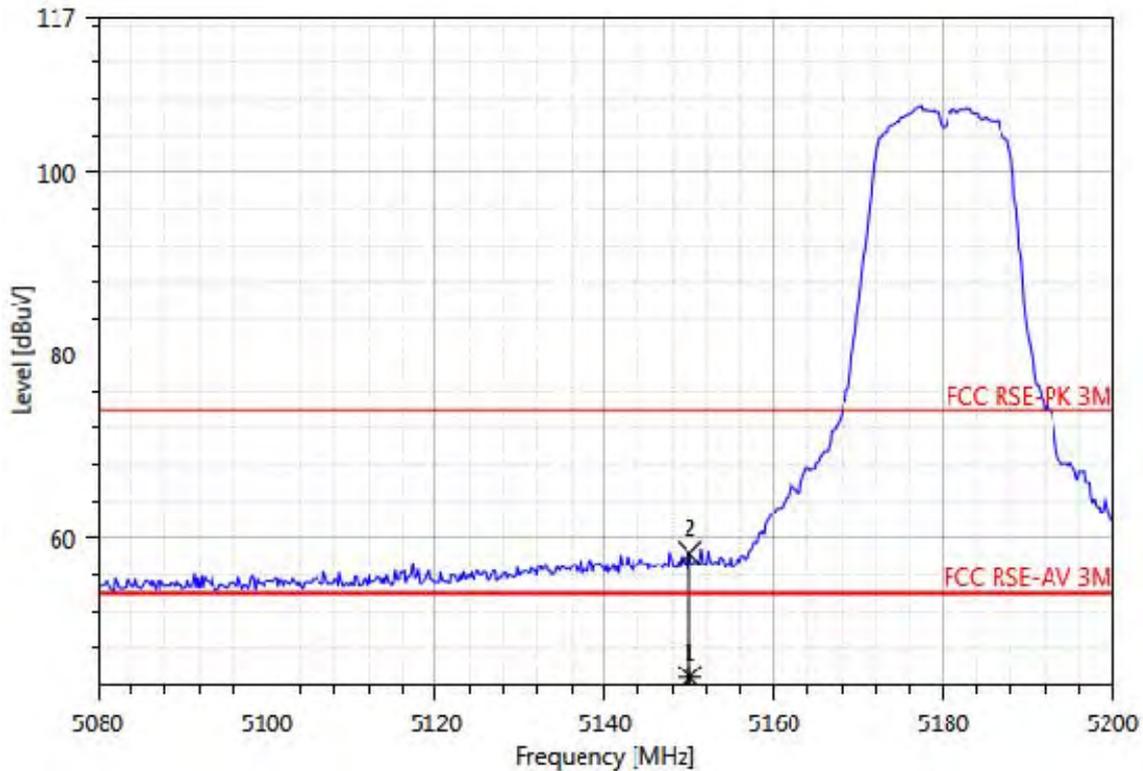
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Operation Mode : 802.11aB1 Test Date : 05/05/2016  
 Fundamental Frequency : 5180 MHz Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Kane  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



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	dBu V/m	dB
5150.00	E	Average	44.73	38.85	5.88	54.00	-9.27
5150.00	E	Peak	58.35	52.47	5.88	74.00	-15.65

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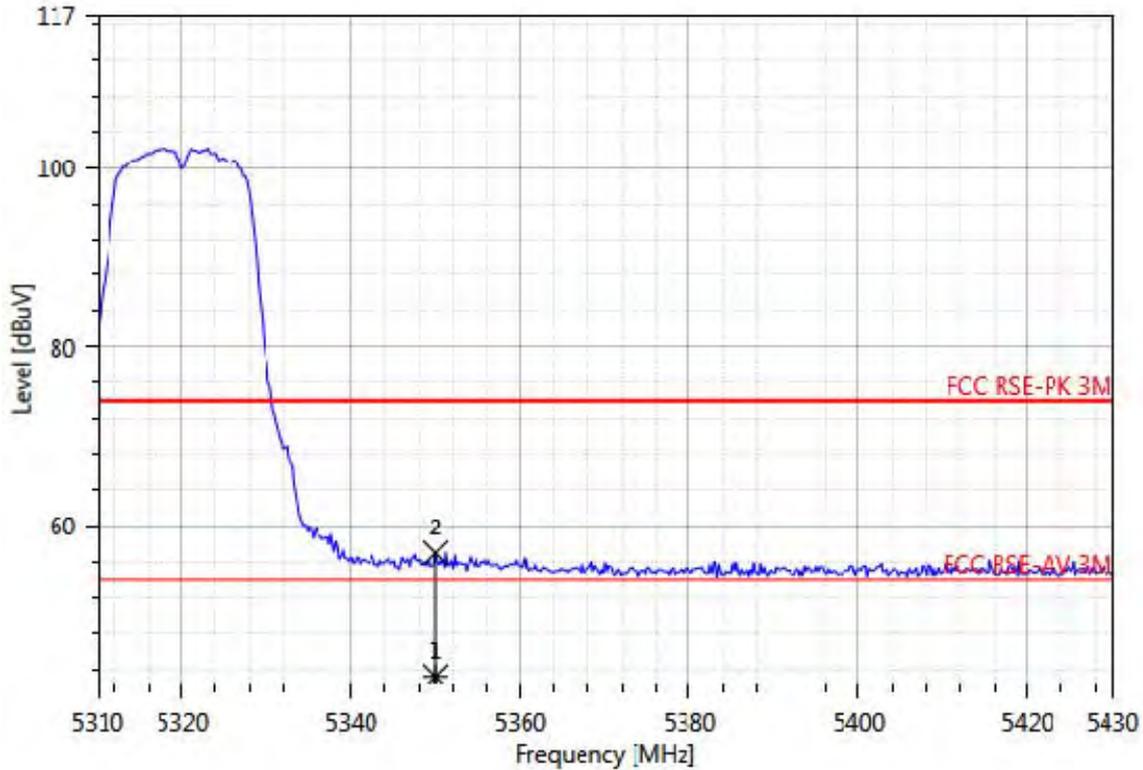
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Operation Mode : 802.11aB2                      Test Date : 05/05/2016  
 Fundamental Frequency : 5320 MHz              Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 Plane                      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
5350.00	E	Average	43.21	37.06	6.15	54.00	-10.79
5350.00	E	Peak	56.99	50.84	6.15	74.00	-17.01

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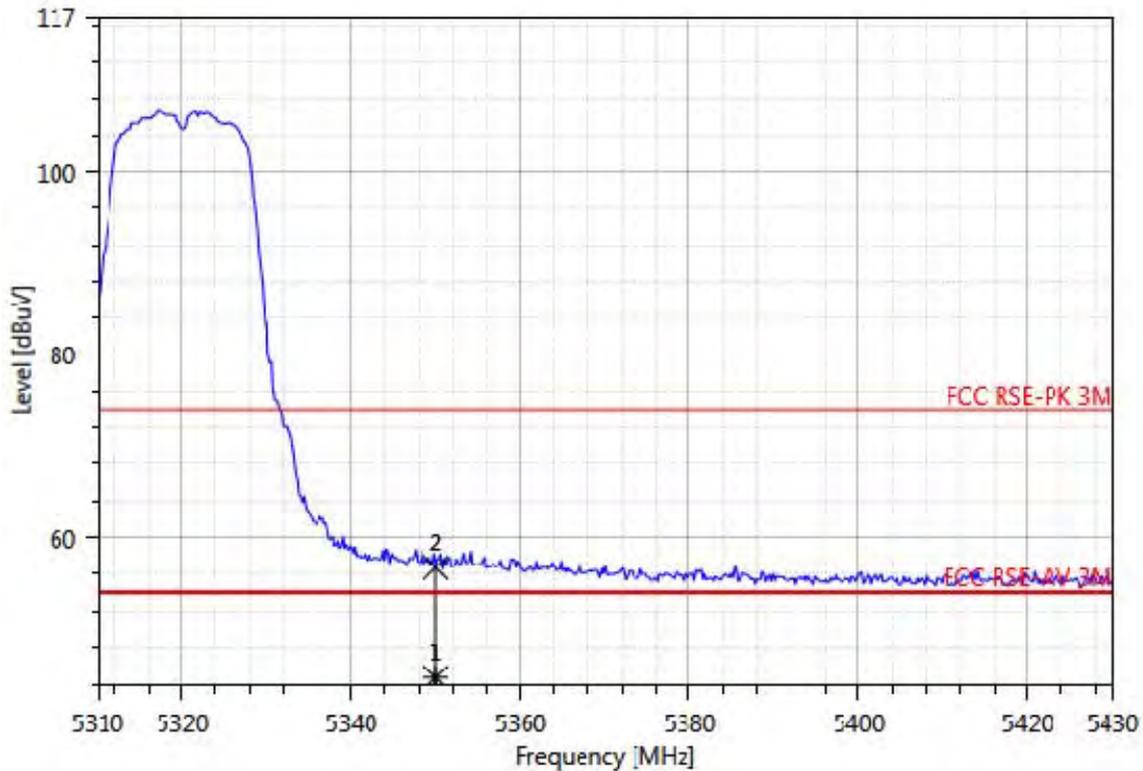
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Operation Mode : 802.11aB2      Test Date : 05/05/2016  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



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
5350.00	E	Average	44.66	38.51	6.15	54.00	-9.34
5350.00	E	Peak	56.70	50.55	6.15	74.00	-17.30

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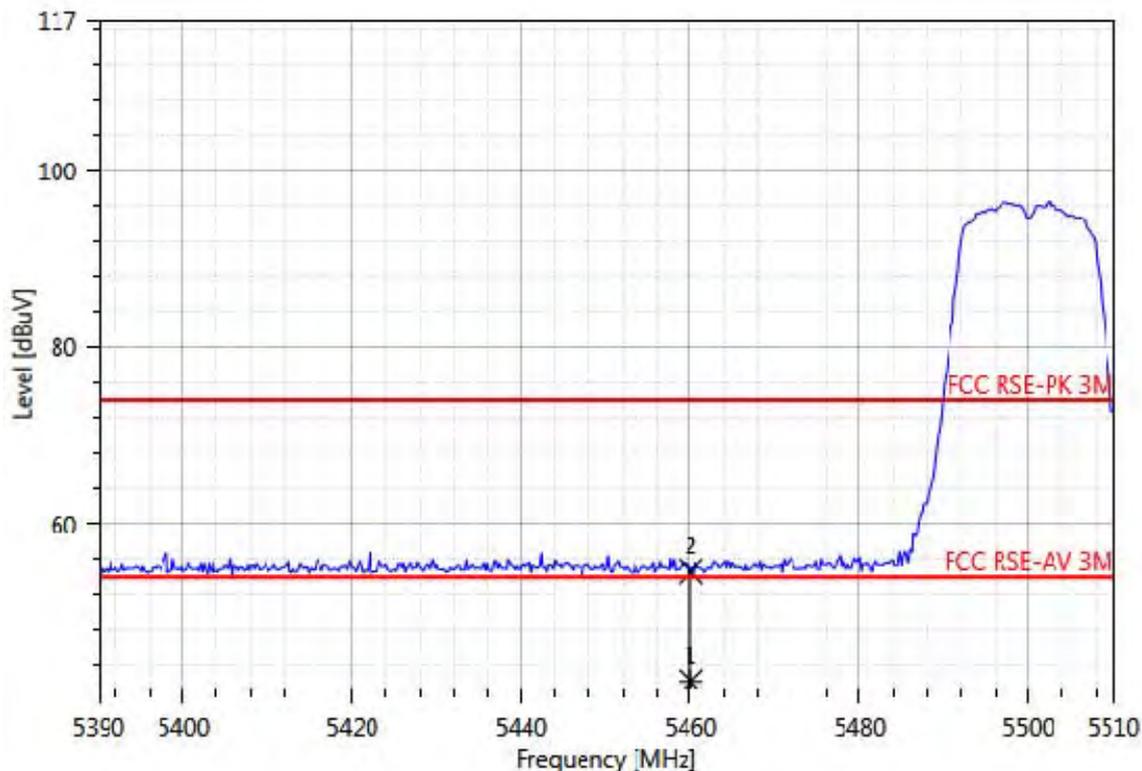
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Operation Mode : 802.11aB3      Test Date : 05/05/2016  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



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
5460.00	E	Average	42.13	35.90	6.23	54.00	-11.87
5460.00	E	Peak	54.62	48.39	6.23	74.00	-19.38

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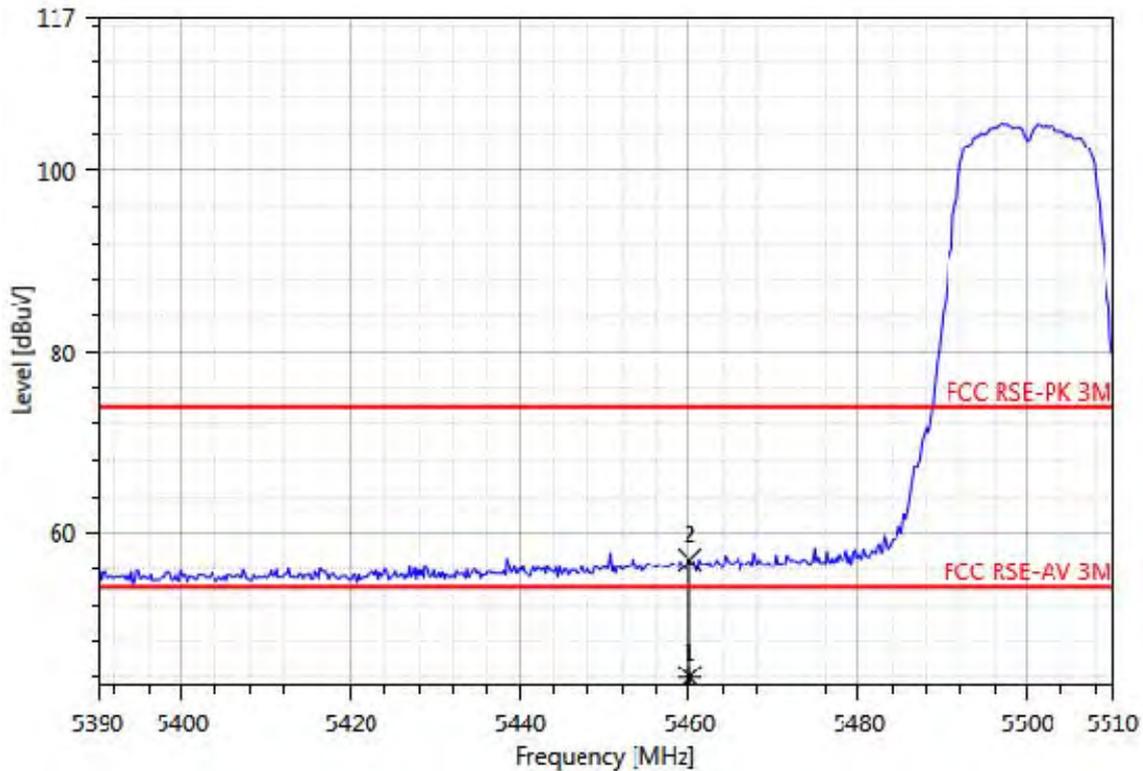
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Operation Mode : 802.11aB3      Test Date : 05/05/2016  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



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 dBu V/m	Margin dB
5460.00	E	Average	43.97	37.74	6.23	54.00	-10.03
5460.00	E	Peak	56.96	50.73	6.23	74.00	-17.04

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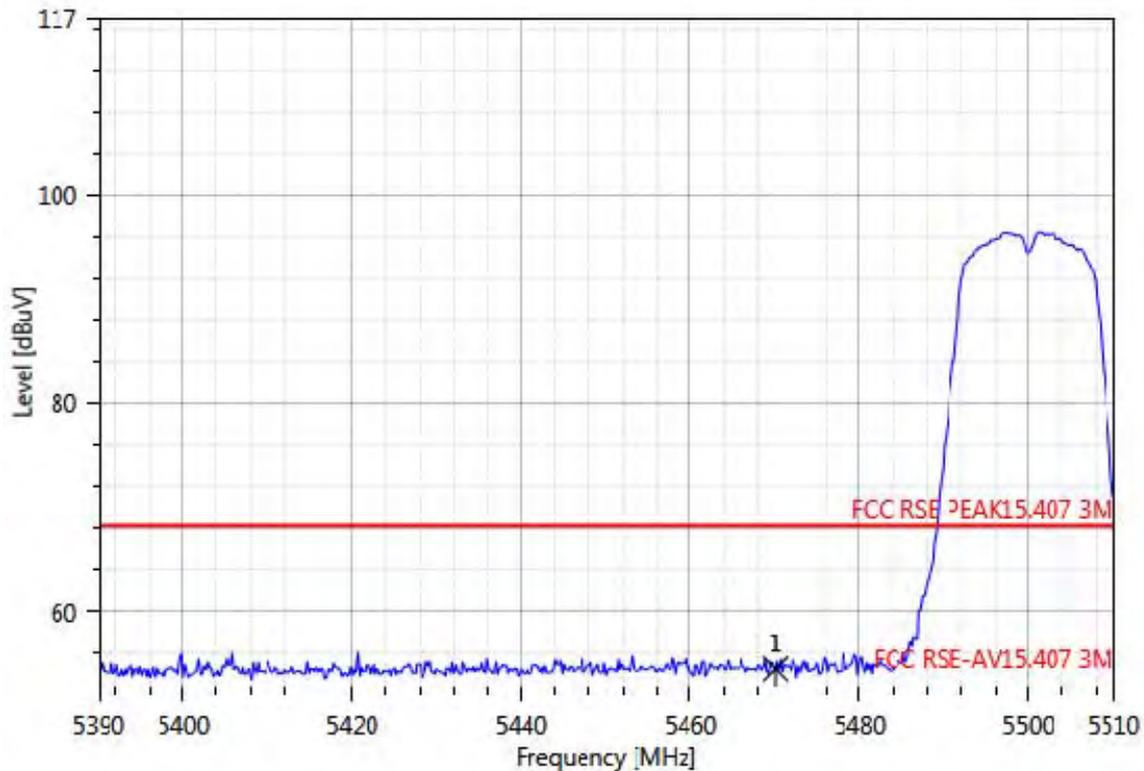
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Operation Mode : 802.11aB3      Test Date : 05/05/2016  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
5470.00	E	Peak	54.48	48.21	6.26	68.30	-13.82

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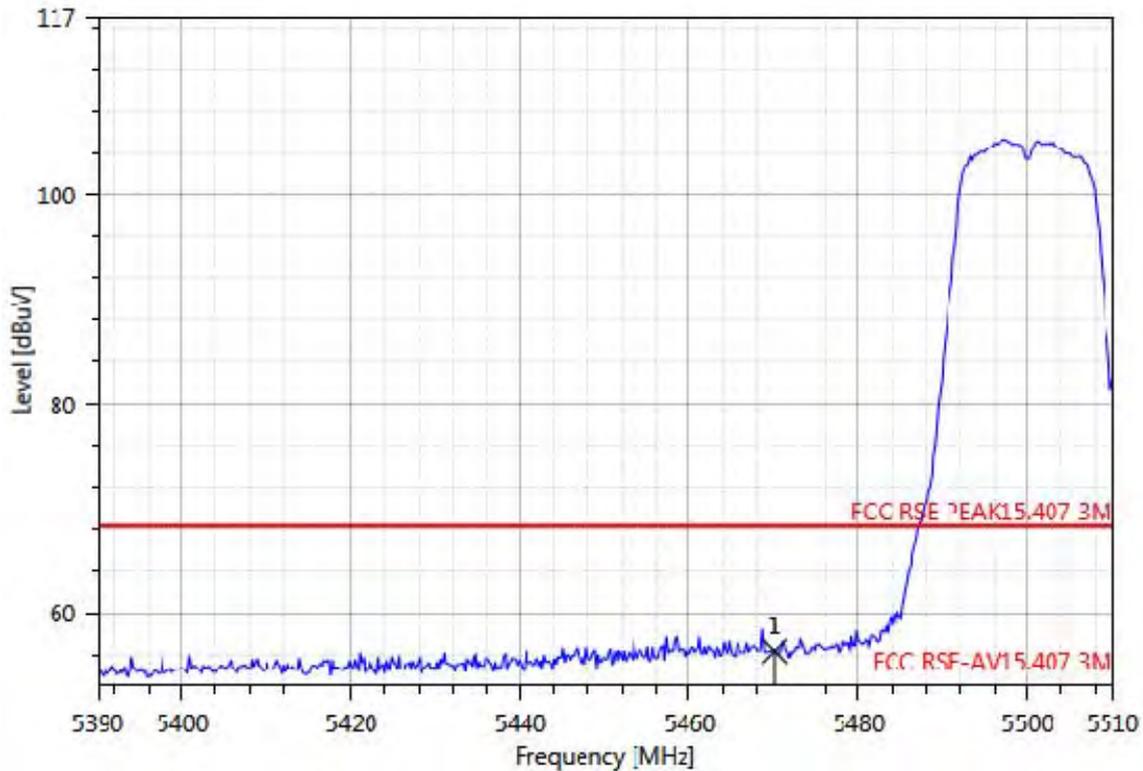
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 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
5470.00	E	Peak	56.35	50.08	6.26	68.30	-11.95

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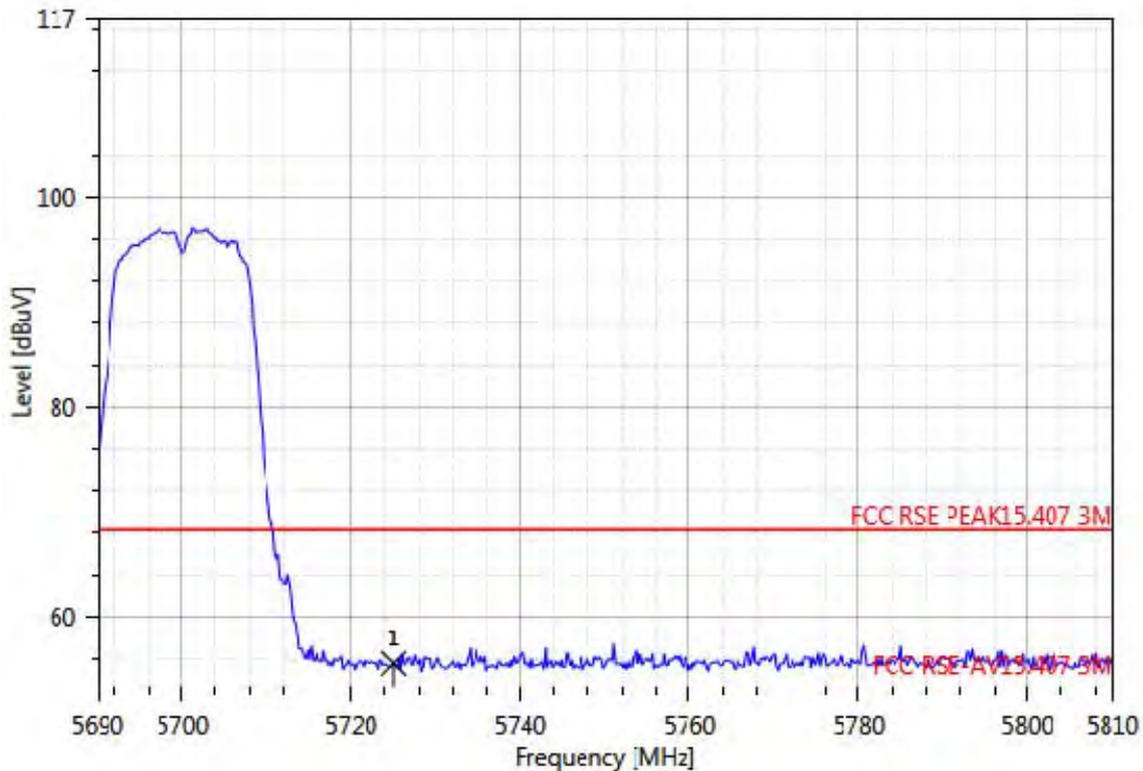
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Operation Mode : 802.11aB3      Test Date : 05/05/2016  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : VERTICAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
5725.00	E	Peak	55.53	48.94	6.59	68.30	-12.77

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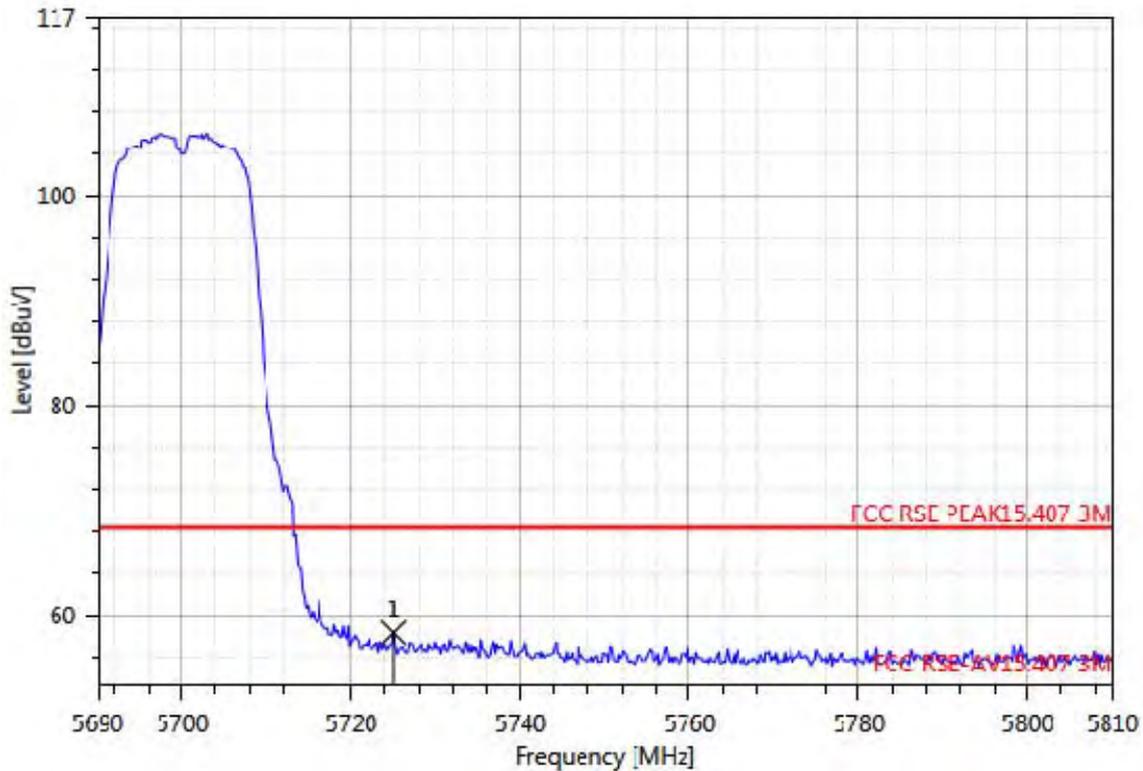
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Operation Mode : 802.11aB3      Test Date : 05/05/2016  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 21 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



Freq.	Note	Decetor Mode	Actual Reading Level	Spectrum FS	Factor	Limit @ 3m	Margin
MHz	F/H/E/S	QP/AV/PK	dBuV/m	dBuV/m	dB	dBuV/m	dB
5725.00	E	Peak	58.25	51.66	6.59	68.30	-10.05

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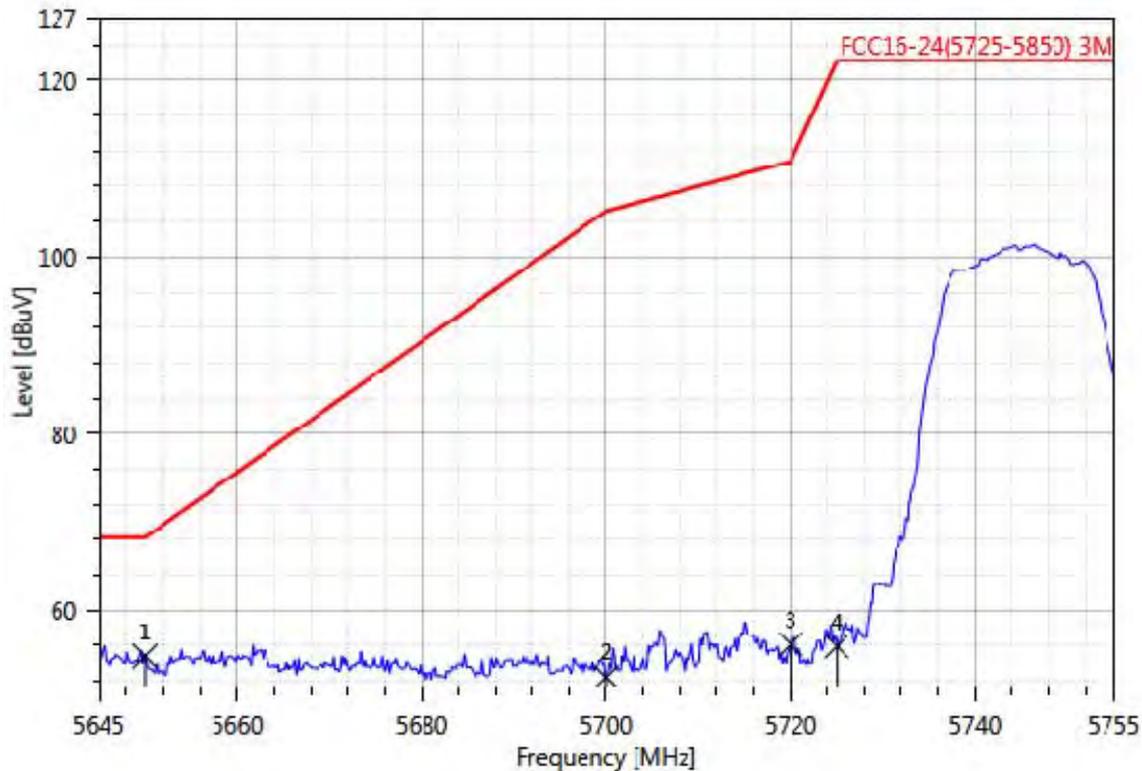
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Operation Mode : 802.11aB4 Test Date : 05/05/2016  
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW Test Engineer : Kane  
 EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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	54.79	48.31	6.48	68.23	-13.44
5700.00	E	Peak	52.44	45.77	6.68	105.23	-52.79
5720.00	E	Peak	56.13	49.53	6.60	110.83	-54.70
5725.00	E	Peak	55.91	49.32	6.59	122.23	-66.32

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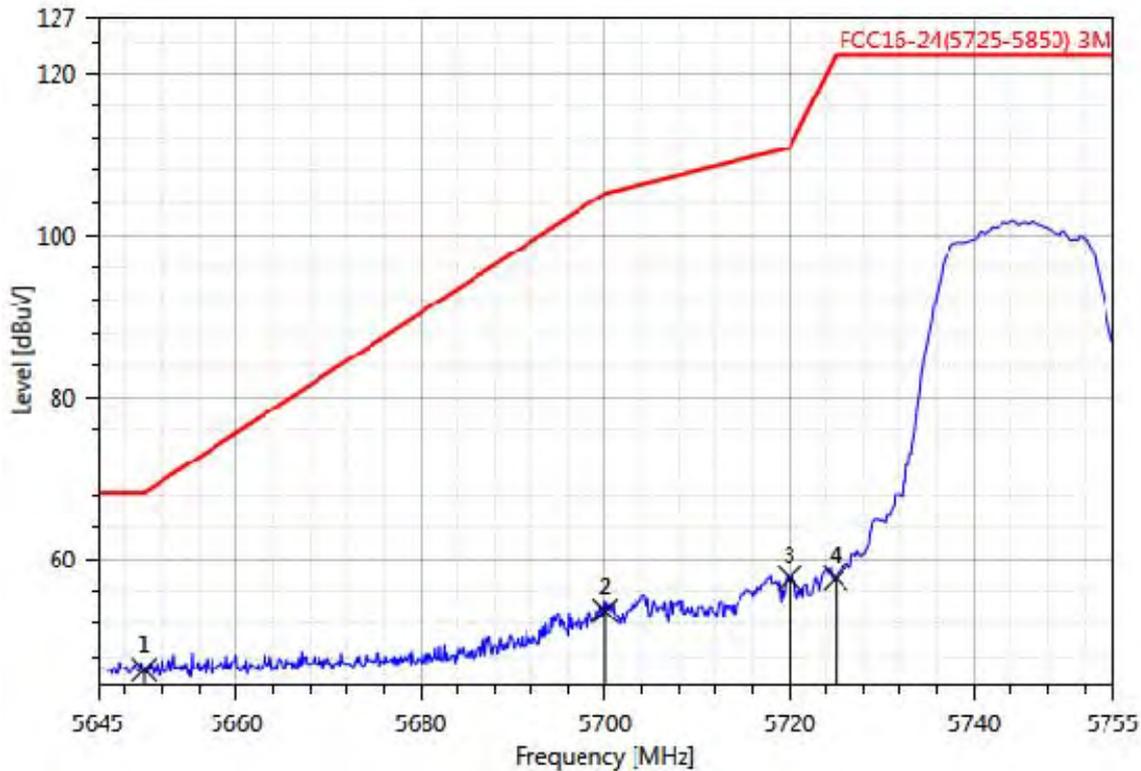
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Operation Mode : 802.11aB4      Test Date : 05/05/2016  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH LOW      Test Engineer : Kane  
 EUT Pol. : E2 Plane      Measurement Antenna Pol. : HORIZONTAL



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	46.38	39.89	6.48	68.23	-21.85
5700.00	E	Peak	53.66	46.98	6.68	105.23	-51.57
5720.00	E	Peak	57.64	51.04	6.60	110.83	-53.19
5725.00	E	Peak	57.63	51.04	6.59	122.23	-64.60

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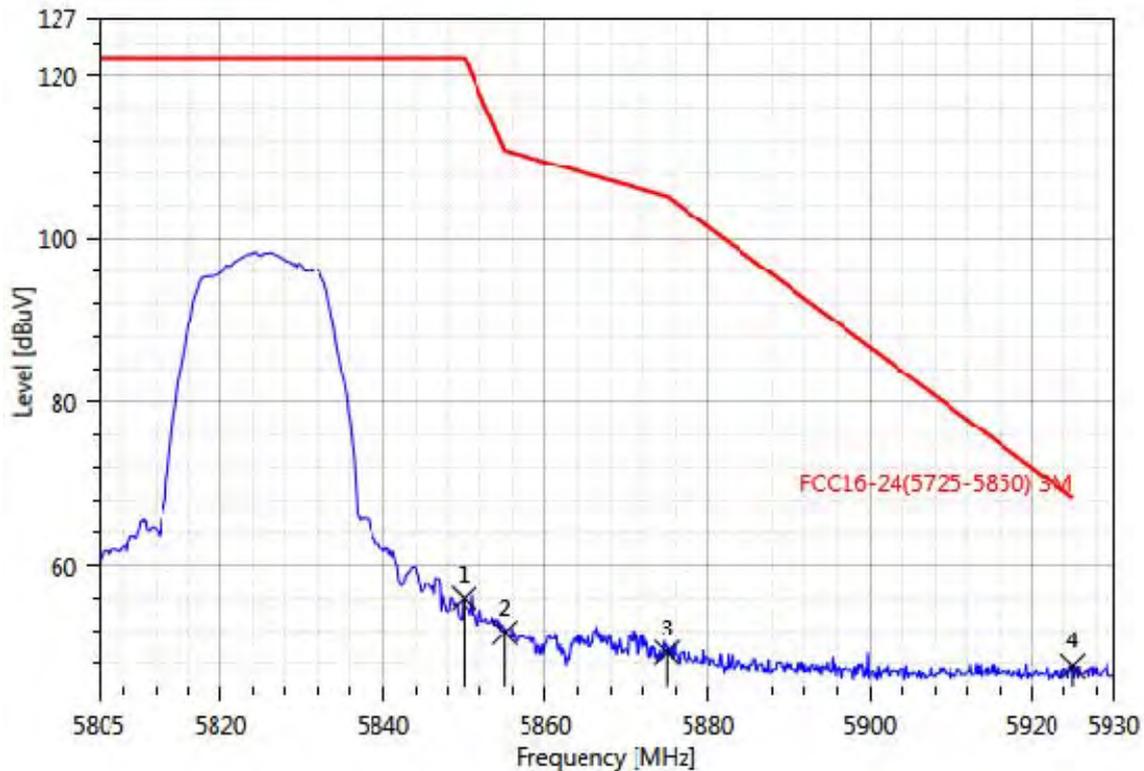
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Operation Mode : 802.11aB4                      Test Date : 05/05/2016  
 Fundamental Frequency : 5825 MHz              Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 Plane                      Measurement Antenna Pol. : VERTICAL



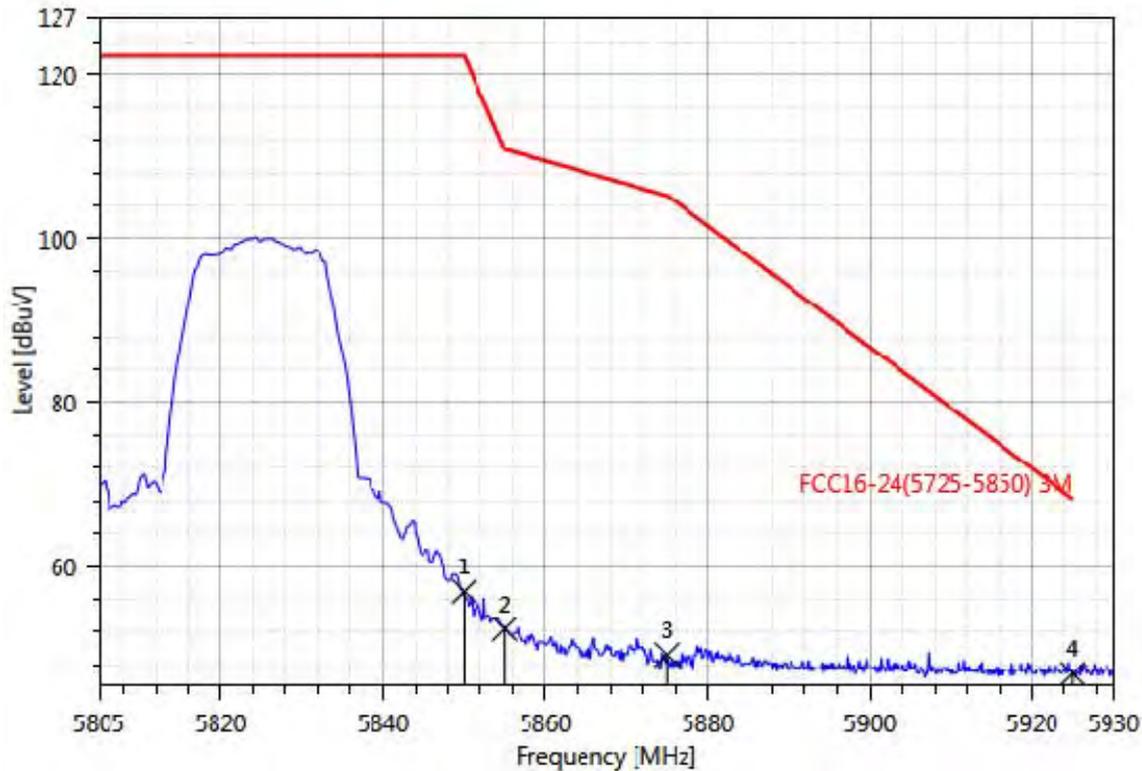
Freq. MHz	Note F/H/E/S	Decetor Mode QP/AV/PK	Actual Reading Level dBuV/m	Spectrum FS dBuV/m	Factor dB	Limit @ 3m dBuV/m	Margin dB
5850.00	E	Peak	55.93	48.65	7.28	122.23	-66.30
5855.00	E	Peak	51.74	44.42	7.32	110.83	-59.09
5875.00	E	Peak	49.32	41.95	7.37	105.23	-55.91
5925.00	E	Peak	47.68	40.29	7.39	68.23	-20.55

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Operation Mode : 802.11aB4      Test Date : 05/05/2016  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 23 deg\_C / 62 RH  
 Operation Band : Bandedge CH HIGH Test Engineer : Kane  
 EUT Pol. : E2 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
5850.00	E	Peak	56.97	49.69	7.28	122.23	-65.26
5855.00	E	Peak	52.38	45.06	7.32	110.83	-58.45
5875.00	E	Peak	49.25	41.88	7.37	105.23	-55.98
5925.00	E	Peak	46.94	39.55	7.39	68.23	-21.29

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