

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

**Product Name:** 52F185V10000

**Brand Name:** Flytech

**Model No.:** 52F185V10000

**Model Difference:** N/A

**FCC ID:** XHM-PB63D31

**Report No.:** E2/2016/80074

**Issue Date:** Sep. 05, 2016

**FCC Rule Part:** §15.407

**Prepared for:** FLYTECH Technology Co., Ltd.  
1F, No. 168, Sing-Ai Rd., NeiHu District  
11494, Taipei, Taiwan

**Prepared by:** SGS Taiwan Ltd.  
Electronics & Communication Laboratory  
No.2, Keji 1st Rd., Guishan District, Taoyuan  
City, Taiwan 333



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## VERIFICATION OF COMPLIANCE

**Applicant:** FLYTECH Technology Co., Ltd.  
1F, No. 168, Sing-Ai Rd., NeiHu District 11494, Taipei, Taiwan

**Product Name:** 52F185V10000

**Brand Name:** Flytech

**Model No.:** 52F185V10000

**Model Difference:** N/A

**FCC ID:** XHM-PB63D31

**File Number:** E2/2016/80074

**Date of Test:** Aug. 18, 2016 ~ Sep. 03, 2016

**Date of EUT Received:** Aug. 08, 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:**

Sep. 05, 2016

---

**Jerry Lu / Sr. Engineer****Prepared By:****Date:**

Sep. 05, 2016

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**Allen Tsai / Engineer****Approved By:****Date:**

Sep. 05, 2016

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**Jim Chang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date
E2/2016/80074	Rev.00	Initial creation of document	Sep. 05, 2016

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## 1 GENERAL INFORMATION

### 1.1 Product Description

General:

Product Name:	52F185V10000
Brand Name:	Flytech
Model No.:	52F185V10000
Model Difference:	N/A
Product SW/HW version:	N/A/ N/A
Radio SW/HW version:	N/A/ N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3V from DC Power Supply

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## WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	12.98 dBm	OFDM
	5250~5350	4	12.96 dBm	
	5470~5725	12	12.97 dBm	
	5725-5850	5	12.96 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 11.95 dBm (Worst Case)	OFDM
	HT20 / VHT20 5250~5350	4	HT: 11.97 dBm (Worst Case)	
	HT20 / VHT20 5470~5725	11	HT: 11.96 dBm (Worst Case)	
	HT20 / VHT20 5725-5850	5	HT: 11.98 dBm (Worst Case)	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 11.98 dBm (Worst Case)	OFDM
	HT40 / VHT40 5250~5350	2	HT: 11.97 dBm (Worst Case)	
	HT40 / VHT40 5470~5725	5	HT: 11.98 dBm (Worst Case)	
	HT40 / VHT40 5725-5850	2	HT: 11.96 dBm (Worst Case)	
11ac_80M	VHT80 5150~5250	1	9.97 dBm	OFDM
	VHT80 5250~5350	1	9.96 dBm	
	VHT80 5470~5725	2	9.94 dBm	
	VHT80 5725-5850	1	9.83 dBm	

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Antenna Designation	1. PIFA PCB Assembly Antenna, Part No.:6LNA14000020, Supplier: JiangyinSINBON Electronics Co., Ltd. 5GHz Gain: 1.44dBi (5150MHz-5250MHz) 5GHz Gain: 2.77dBi (5250MHz-5350MHz) 5GHz Gain: 3.34dBi (5470MHz-5725MHz) 5GHz Gain: 1.96dBi (5725MHz-5850MHz) 2. WiFi Dual Metal Sheet Antenna, Part No.:A9702456, Supplier: SINBON Electronics Co., Ltd. Supplier: JiangyinSINBON Electronics Co., Ltd. 5GHz Gain: 1.11dBi (5150MHz-5250MHz) 5GHz Gain: 2.10dBi (5250MHz-5350MHz) 5GHz Gain: 2.28dBi (5470MHz-5725MHz) 5GHz Gain: 1.96dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps 802.11 ac_20MHz: 6.5 –86.7Mbps 802.11 ac_40MHz: 13.5 -200.0Mbps 802.11 ac_80MHz: 29.3 – 433.3Mbps

## 1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting below features.

Product Feature	
Bluetooth Version	BT4.0dual mode
WLAN	802.11 a/b/g/n/ac

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

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### 1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 644545 D03 Guidance for IEEE 802.11ac

ANSI C63.10:2013

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

### 1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,  
Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

### 1.5 Special Accessories

There are no special accessories used while test was conducted.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

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

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

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

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. 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 6.6dB, and 10dB attenuator.

$$= \text{RF cable loss (dB)} + \text{attenuation factor (dB)} = 12.3(\text{dB})$$

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

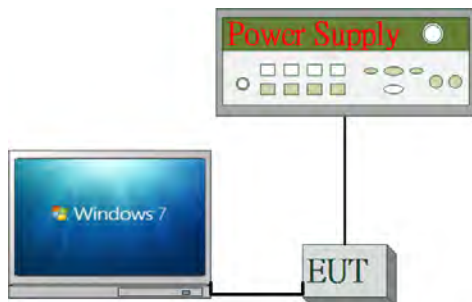


Fig. 2-2 Radiated (Antenna Port) Configuration Emission

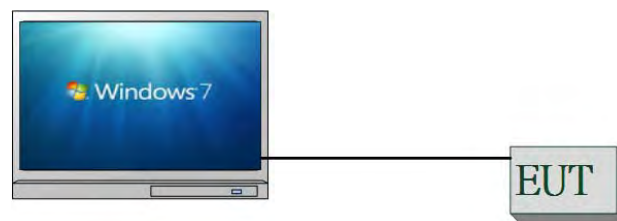


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	Notebook	Lenovo	L440	R9-007LAZ	Shielded	Unshielded
2	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
3.	DC Power Supply	Agilent	E3634A	MY53180030	N/A	Unshielded

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### 3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	N/A
§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:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
36	5180
40	5200
44	5220
48	5240

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
38	5190
46	5230

802.11ac VHT80 Mode	
channel	Frequency
42	5210

Operated band in 5250 MHz ~5350 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
channel	Frequency
52	5260
56	5280
60	5300
64	5320

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
54	5270
62	5310

802.11ac VHT80 Mode	
Channel	Frequency
58	5290

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### Operated band in 5470 MHz ~5725 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
100	5500
104	5520
108	5540
112	5560
116	5580
120	5600
124	5620
128	5640
132	5660
136	5680
140	5700

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
102	5510
110	5550
118	5590
126	5630
134	5670

802.11ac VHT80 Mode	
channel	Frequency
106	5530
122	5610

### Operated band in 5725 MHz ~5850 MHz:

802.11a / n HT20 Mode, 802.11ac VHT20 Mode	
Channel	Frequency
149	5745
153	5765
157	5785
161	5805
165	5825

802.11 n HT40 Mode, 802.11ac VHT40 Mode	
channel	Frequency
151	5755
159	5795

802.11ac VHT80 Mode	
channel	Frequency
155	5775

## 4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The EUT is able to transmit at main and aux antenna port but the two ports are not able to transmit at same time.
5. Pre-scanned was done on the two antenna ports and **Aux** antenna port results higher emission at 5GHz. Therefore the completed set of measurement was done on **Aux** antenna port.
6. Pre-scanned was done on external antenna: 6LNA14000020 and antenna A9702456, and antenna 6LNA14000020 results higher emission at 5GHz. Therefore, the completed set of measurement was done on antenna: 6LNA14000020 to be presented on this test report.

### RADIATED EMISSION TEST:

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RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11ac_VHT80	5210	42	42	OFDM	MCS0
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11ac_VHT80	5290	58	58	OFDM	MCS0
802.11a	5500~5720	100 to 140	100,116,140	OFDM	6
802.11ac_VHT80	5530~5690	106 to 138	106,122,138	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11ac_VHT80	5775	155	155	OFDM	MCS0
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0
802.11ac_VHT80	5210	42	42	OFDM	MCS0
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0
802.11ac_VHT80	5290	58	58	OFDM	MCS0

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MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)
802.11a	5500~5720	100 to 144	100,116,140	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5510~5710	102 to 142	102,110,134	OFDM	MCS0
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11n_HT20				OFDM	MCS0
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0
802.11ac_VHT80	5775	155	155	OFDM	MCS0

# 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 E1 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)
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS0
802.11ac_VHT80	5210	42	42	OFDM	MCS0
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0
802.11n_HT40 802.11ac_VHT40	5270~5310	54 to 62	54,62	OFDM	MCS0
802.11ac_VHT80	5290	58	58	OFDM	MCS0
802.11a	5500~5700	100 to 140	100,116,140	OFDM	6
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0
802.11n_HT40 802.11ac_VHT40	5510~5670	102 to 134	102,110,134	OFDM	MCS0
802.11ac_VHT80	5530~5610	106 to 122	106,122	OFDM	MCS0
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6
802.11n_HT20 802.11ac_VHT20				OFDM	MCS0
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS0
802.11ac_VHT80	5775	155	155	OFDM	MCS0

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

### 6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-1 50cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

### 6.3 EUT Setup

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

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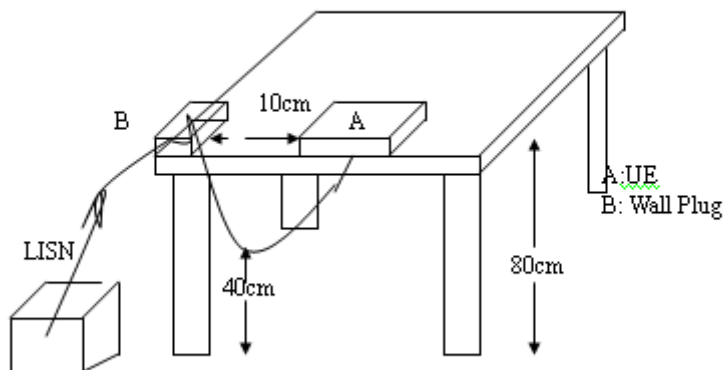
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## 6.4 Test SET-UP



## 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

N/A, the device is powered by 3.3V DC Power Supply.

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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	96.81	0.14
802.11n_20	91.93	0.37
802.11ac_20	95.36	0.21
802.11n_40	89.52	0.48
802.11ac_40	84.44	0.73
802.11ac_80	72.91	1.37

Duty Cycle Factor:  $10 * \log(1/0.9681) = 0.14$

Duty Cycle Factor:  $10 * \log(1/0.9193) = 0.37$

Duty Cycle Factor:  $10 * \log(1/0.9536) = 0.21$

Duty Cycle Factor:  $10 * \log(1/0.8952) = 0.48$

Duty Cycle Factor:  $10 * \log(1/0.8444) = 0.73$

Duty Cycle Factor:  $10 * \log(1/0.7291) = 1.37$

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## DUTY CYCLE TEST SIGNAL Measurement Result 802.11a



## 802.11n HT20



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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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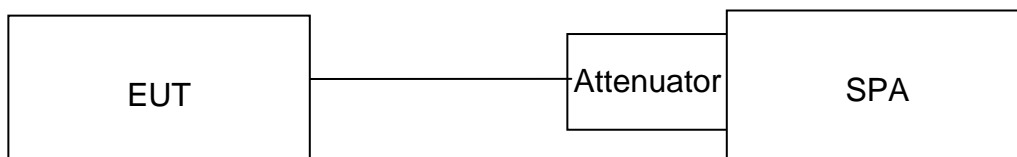
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### 8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

### 8.4 Test Set-up



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## 8.5 Measurement Result

### 26dB Bandwidth

802.11a\_Main Antenna Port

802.11a\_Aux Antenna Port

Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	18.92	12.30	12.769	5180	19.02	12.30	12.792
5220	19.12	12.30	12.815	5220	19.30	12.30	12.856
5240	19.06	12.30	12.801	5240	18.92	12.30	12.770
5260	19.26	12.30	12.847	5260	19.61	12.30	12.926
5300	19.10	12.30	12.810	5300	19.51	12.30	12.903
5320	19.01	12.30	12.790	5320	19.06	12.30	12.801
5500	19.28	12.30	12.851	5500	19.27	12.30	12.848
5580	19.53	12.30	12.907	5580	19.05	12.30	12.799
5700	19.09	12.30	12.808	5700	19.28	12.30	12.852

802.11n\_HT20\_Main Antenna Port

802.11n\_HT20\_Aux Antenna Port

Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5180	19.79	12.30	12.964	5180	20.04	12.30	13.019
5220	19.75	12.30	12.956	5220	20.16	12.30	13.045
5240	20.02	12.30	13.015	5240	19.82	12.30	12.971
5260	19.79	12.30	12.964	5260	20.06	12.30	13.024
5300	19.77	12.30	12.960	5300	19.90	12.30	12.989
5320	19.65	12.30	12.934	5320	20.32	12.30	13.079
5500	19.80	12.30	12.967	5500	20.06	12.30	13.022
5580	19.74	12.30	12.953	5580	20.22	12.30	13.059
5700	19.79	12.30	12.964	5700	19.90	12.30	12.987

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802.11n\_HT40\_Main Antenna Port

802.11n\_HT40\_Aux Antenna Port

Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5190	38.94	12.30	15.904	5190	39.54	12.30	15.970
5230	39.29	12.30	15.943	5230	39.02	12.30	15.913
5270	39.29	12.30	15.943	5270	39.09	12.30	15.920
5310	38.95	12.30	15.905	5310	39.26	12.30	15.940
5510	39.81	12.30	16.000	5510	39.77	12.30	15.995
5550	38.87	12.30	15.896	5550	39.29	12.30	15.943
5670	39.27	12.30	15.941	5670	39.27	12.30	15.940

802.11ac\_VHT80\_Main Antenna Port

802.11ac\_VHT80\_Aux Antenna Port

Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	26dB BW (MHz)	Offset	10 Log (B) (dB)
5210	77.42	12.30	18.889	5210	77.61	12.30	18.899
5290	77.40	12.30	18.887	5290	77.54	12.30	18.895
5530	77.57	12.30	18.897	5530	77.55	12.30	18.896
5610	77.60	12.30	18.899	5610	77.64	12.30	18.901

## 6dB Bandwidth (5725 MHz~ 5850 MHz)

802.11a\_Main Antenna Port

802.11a\_Aux Antenna Port

Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	16.39	12.30	12.146	5745	16.36	12.30	12.137
5785	16.35	12.30	12.135	5785	16.33	12.30	12.129
5825	16.39	12.30	12.146	5825	16.38	12.30	12.143

802.11n\_HT20\_Main Antenna Port

802.11n\_HT20\_Aux Antenna Port

Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5745	17.58	12.30	12.450	5745	17.63	12.30	12.462
5785	17.31	12.30	12.383	5785	17.38	12.30	12.399
5825	17.43	12.30	12.413	5825		12.30	#NUM!

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802.11n\_HT40\_Main Antenna Port

802.11n\_HT40\_Aux Antenna Port

Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5755	35.74	12.30	15.532	5755	35.75	12.30	15.533
5795	35.49	12.30	15.501	5795	35.78	12.30	15.537

802.11ac\_VHT80\_Main Antenna Port

802.11ac\_VHT80\_Aux Antenna Port

Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)	Frequency (MHz)	6dB BW (MHz)	Offset	10 Log (B) (dB)
5775	73.83	12.30	18.682	5775	75.11	12.30	18.757

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802.11a, 5150~5250 MHz (Main)

802.11a, 5150~5250 MHz (Aux)

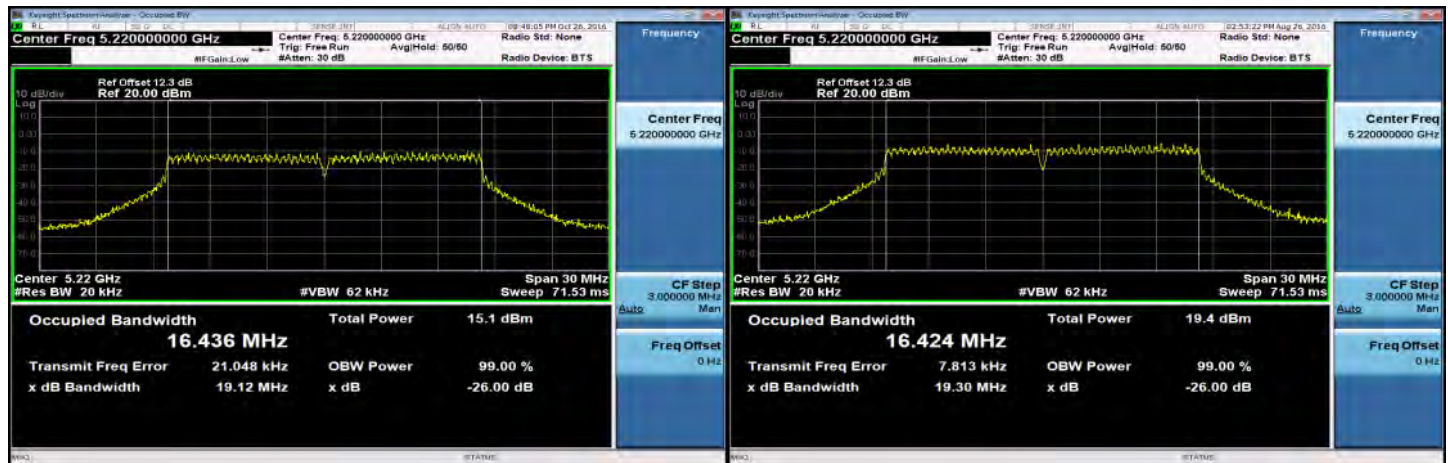
26dB Band Width Test Data CH-Low (5180MHz)

26dB Band Width Test Data CH-Low (5180MHz)



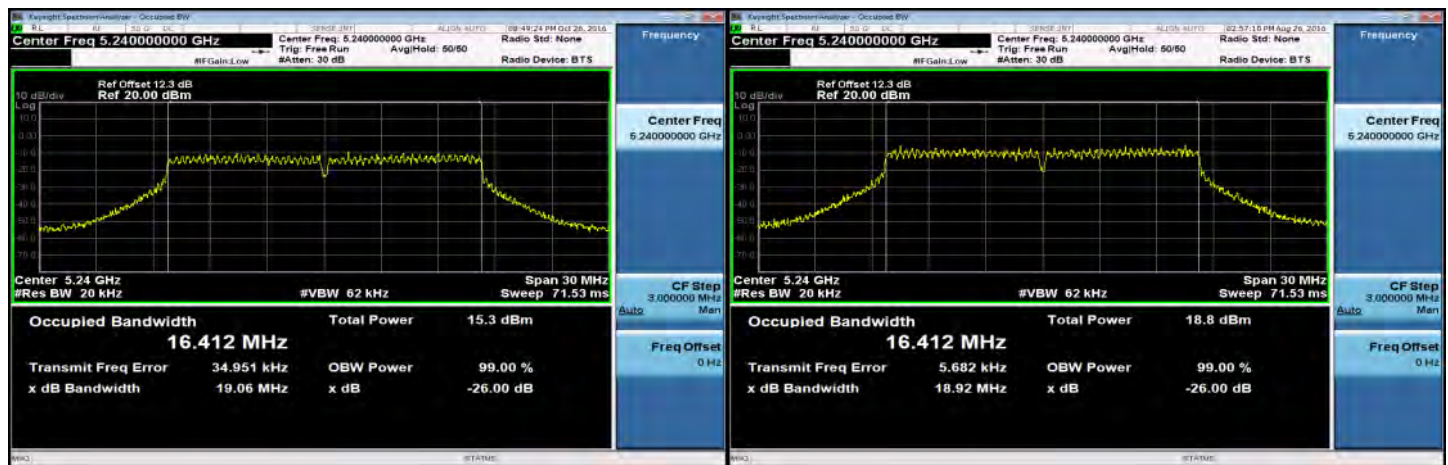
26dB Band Width Test Data CH-Mid (5220MHz)

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



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

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



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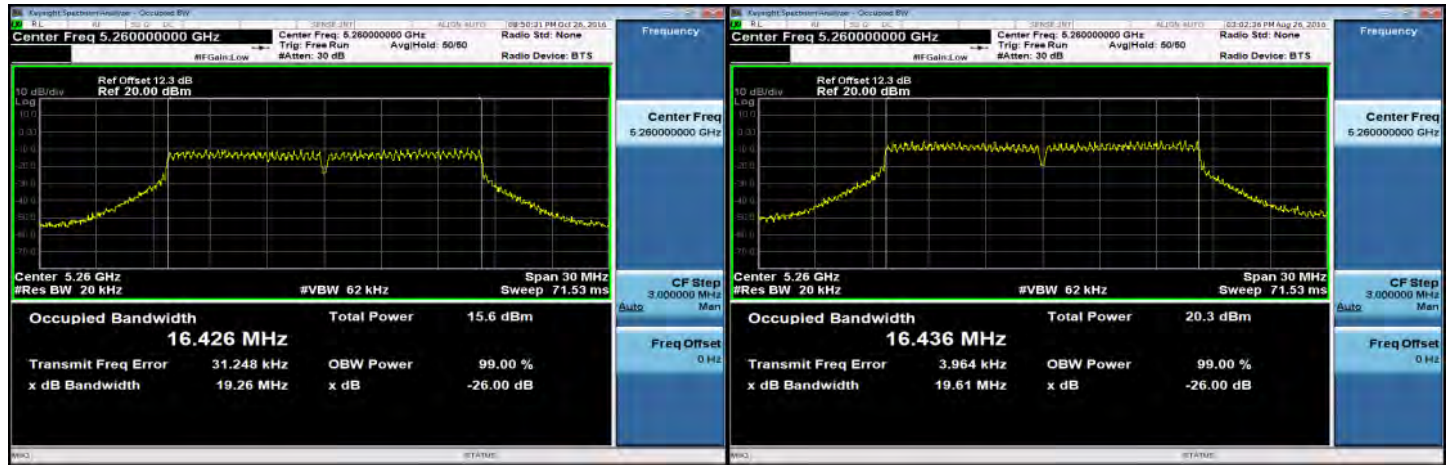
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802.11a, 5250~5350 MHz (Main)

802.11a, 5250~5350 MHz (Aux)

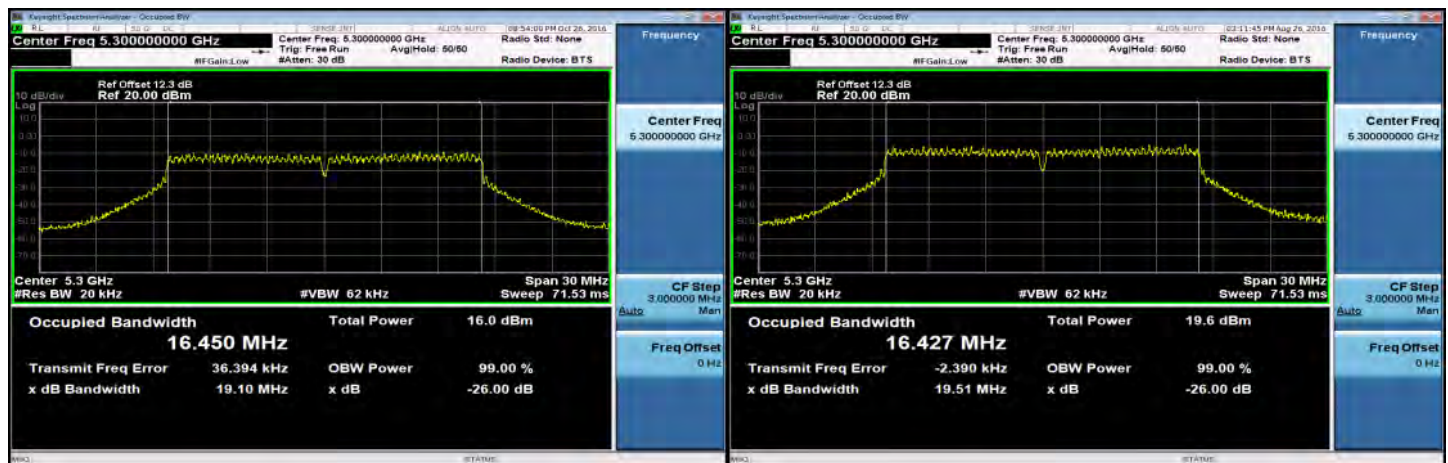
26dB Band Width Test Data CH-Low (5260MHz)

26dB Band Width Test Data CH-Low (5260MHz)



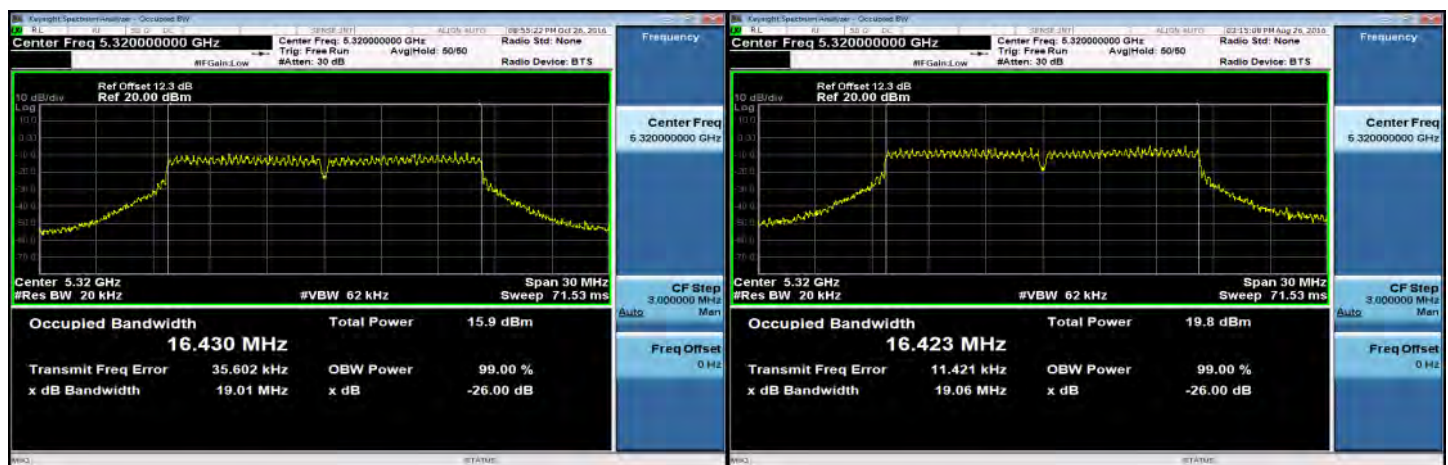
26dB Band Width Test Data CH-Mid (5300MHz)

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



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

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



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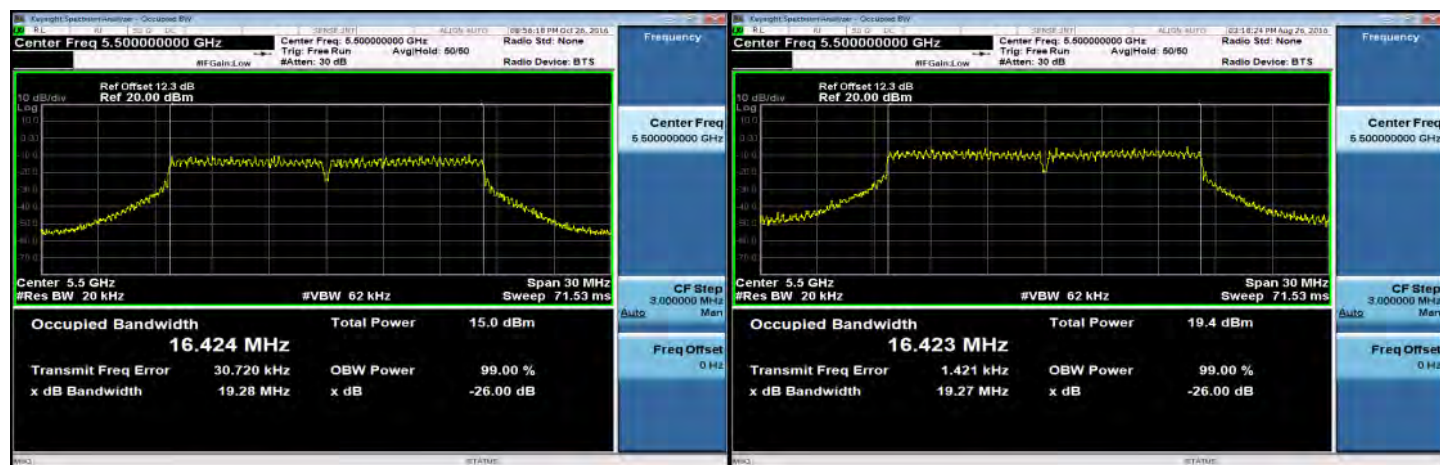
Member of SGS Group

802.11a, 5470~5725 MHz (Main)

802.11a, 5470~5725 MHz (Aux)

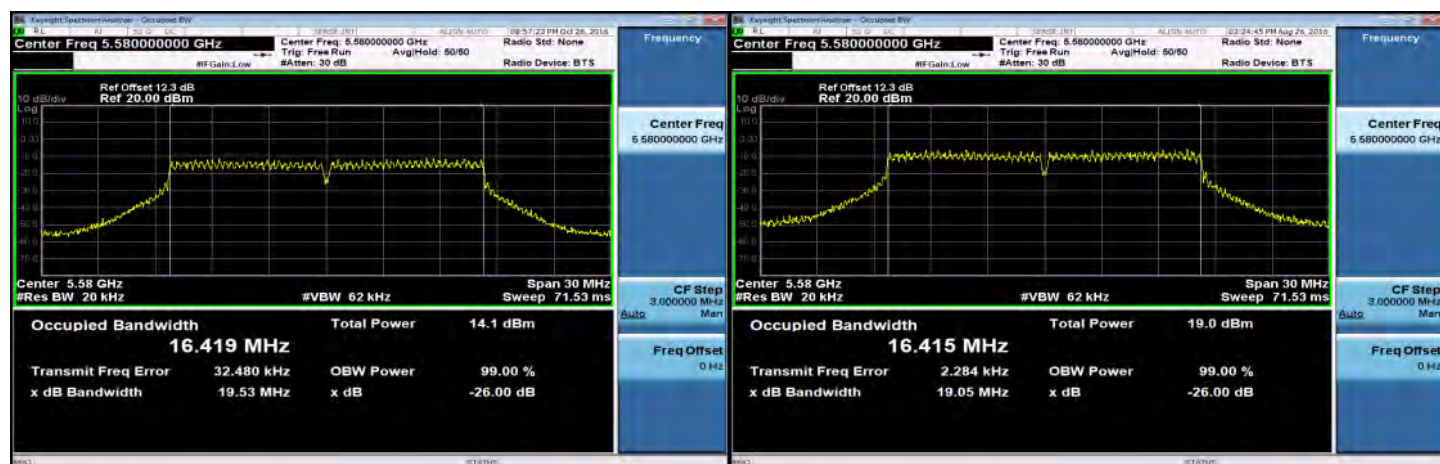
26dB Band Width Test Data CH-Low (5500MHz)

26dB Band Width Test Data CH-Low (5500MHz)



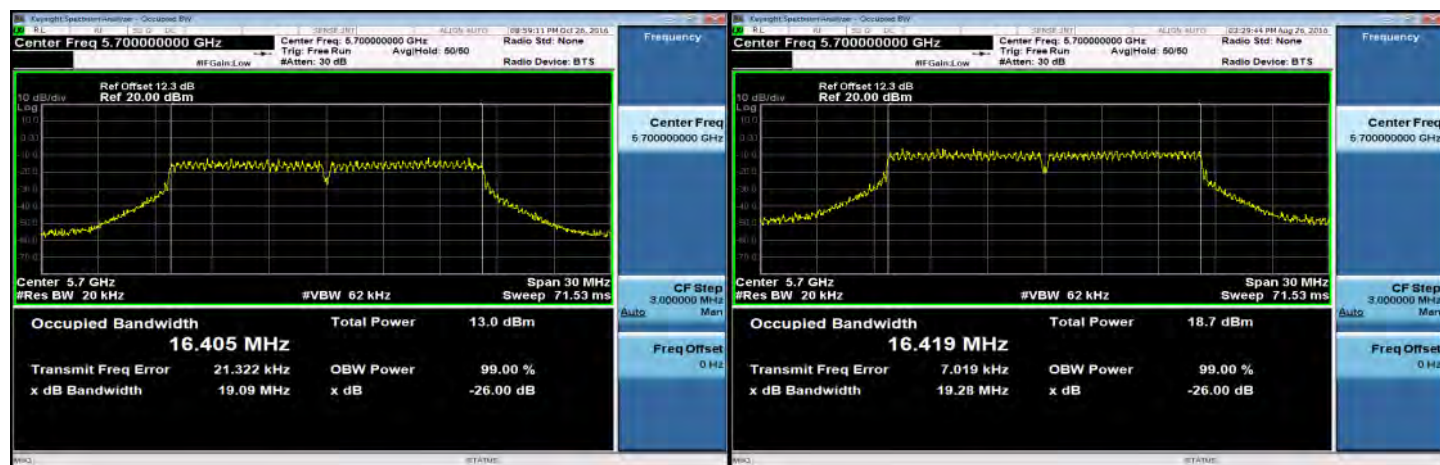
26dB Band Width Test Data CH-Mid (5580MHz)

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



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

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



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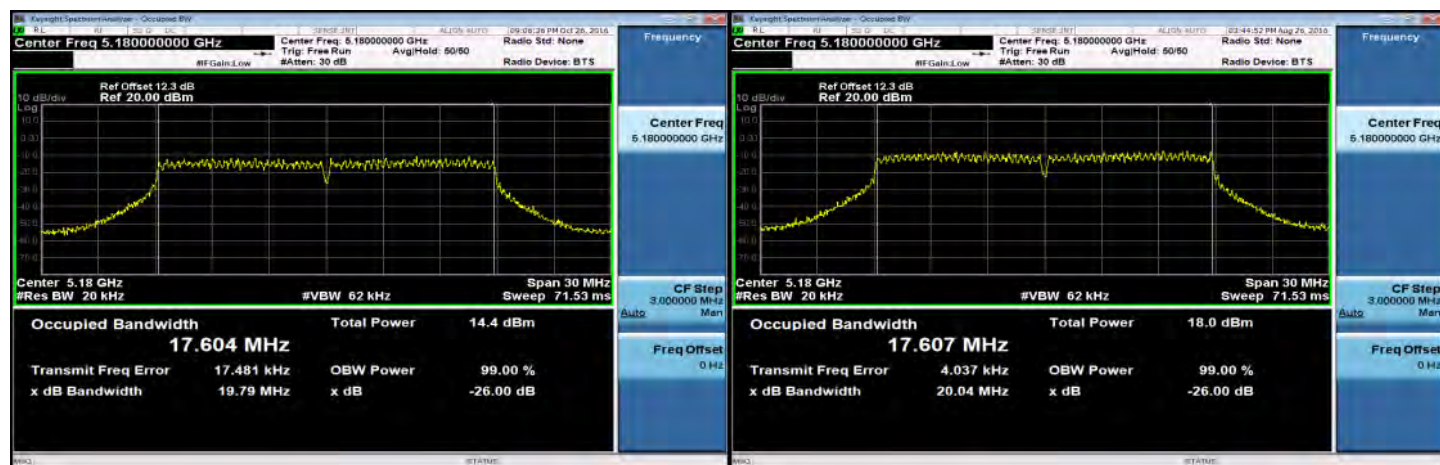
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802.11n HT20, 5150~5250 MHz (Main)

802.11n HT20, 5150~5250 MHz (Aux)

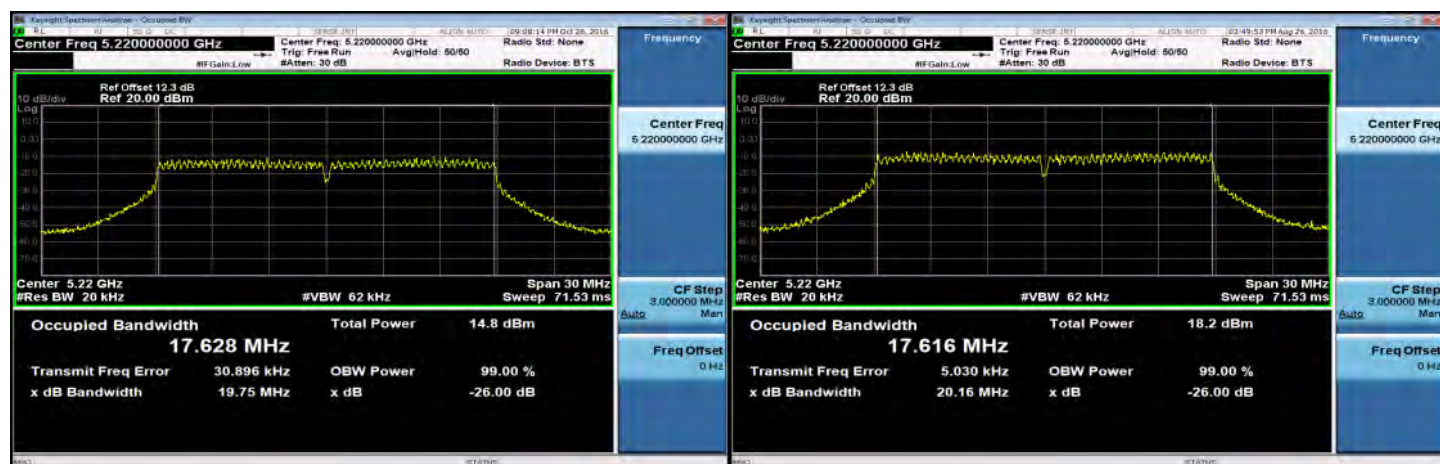
26dB Band Width Test Data CH-Low (5180 MHz)

26dB Band Width Test Data CH-Low (5180 MHz)



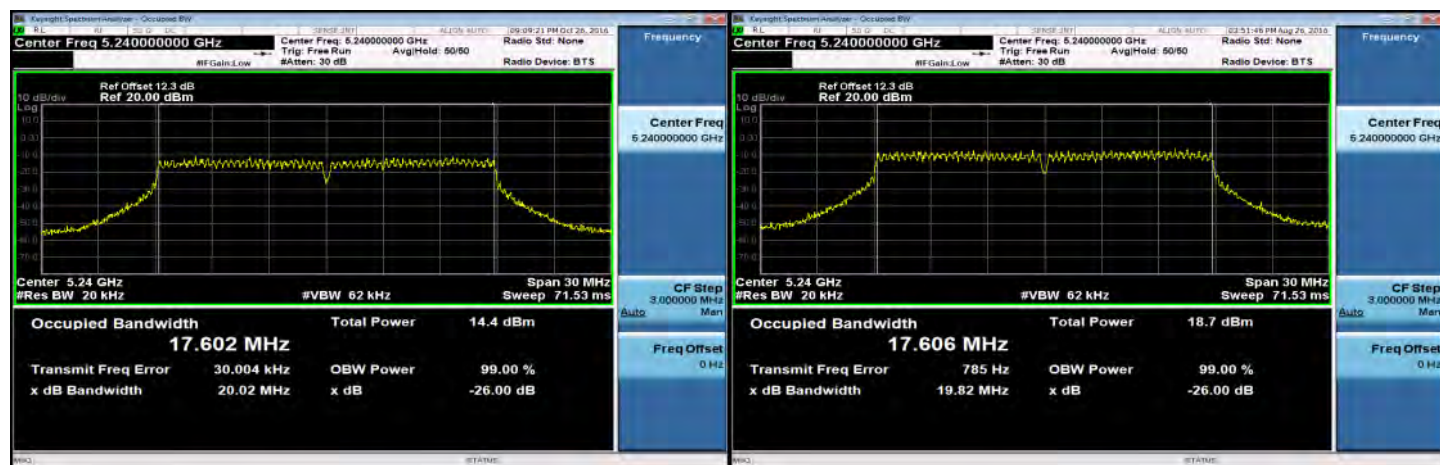
26dB Band Width Test Data CH-Mid (5220 MHz)

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



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

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



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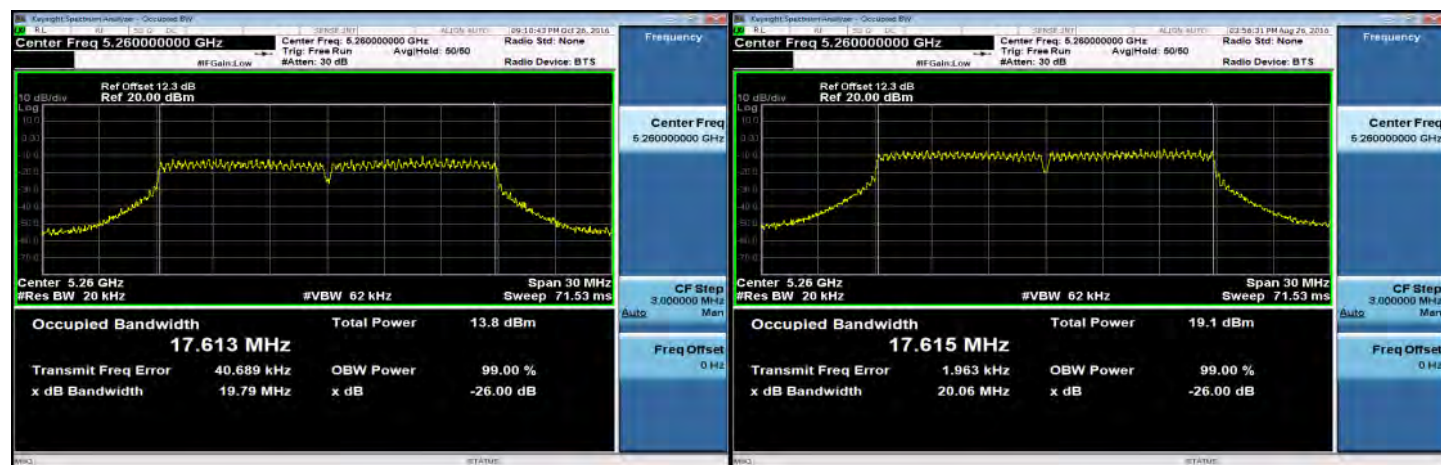
Member of SGS Group

802.11n HT20, 5250~5350 MHz (Main)

802.11n HT20, 5250~5350 MHz (Aux)

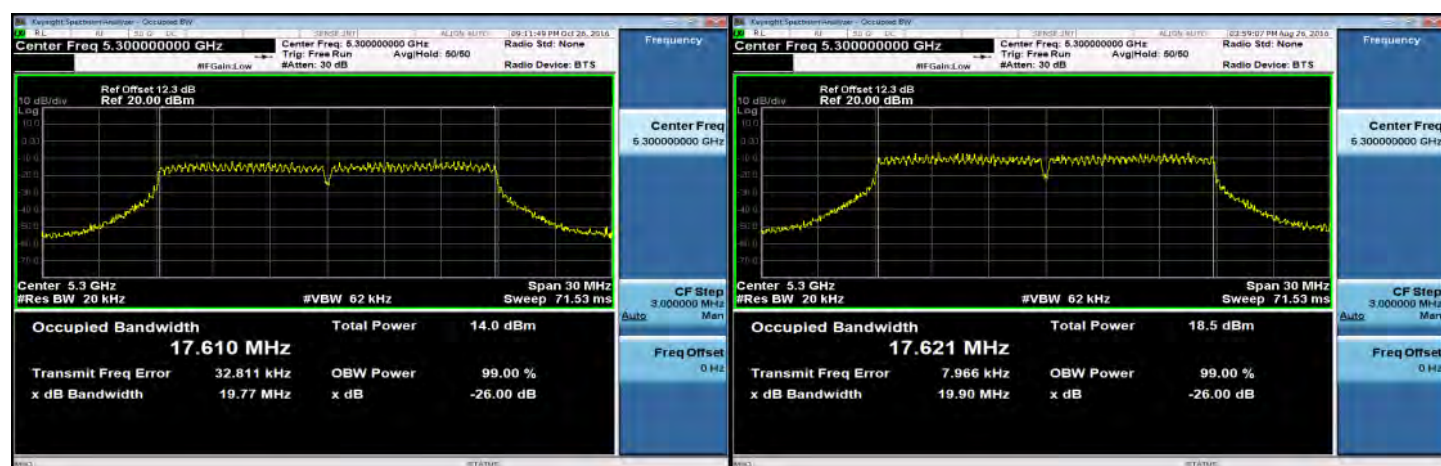
26dB Band Width Test Data CH-Low (5260 MHz)

26dB Band Width Test Data CH-Low (5260 MHz)



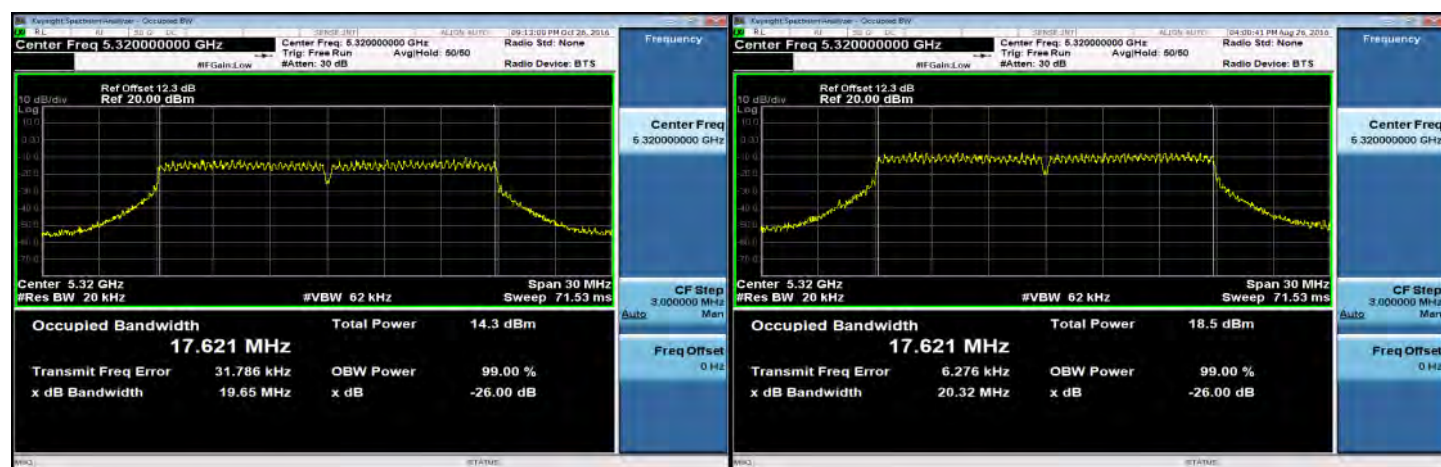
26dB Band Width Test Data CH-Mid (5300 MHz)

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



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

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



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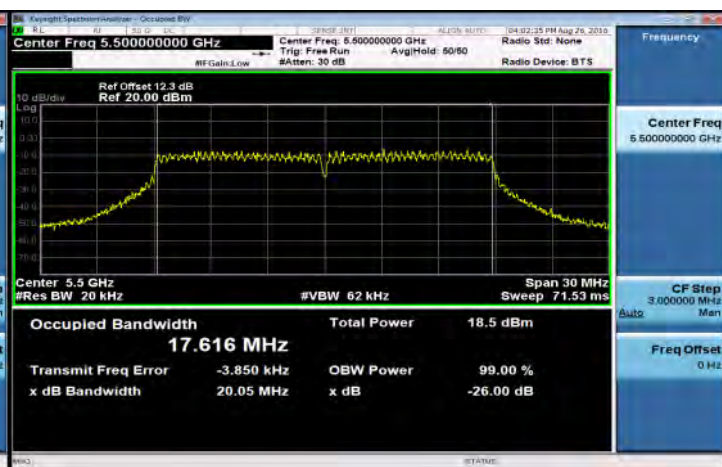
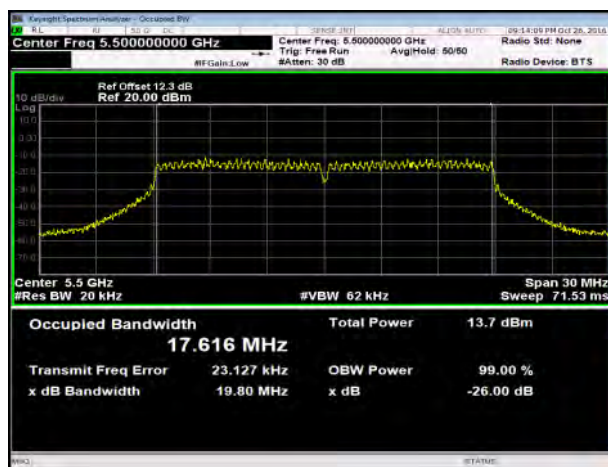
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802.11n HT20, 5470~5725 MHz (Main)

802.11n HT20, 5470~5725 MHz (Aux)

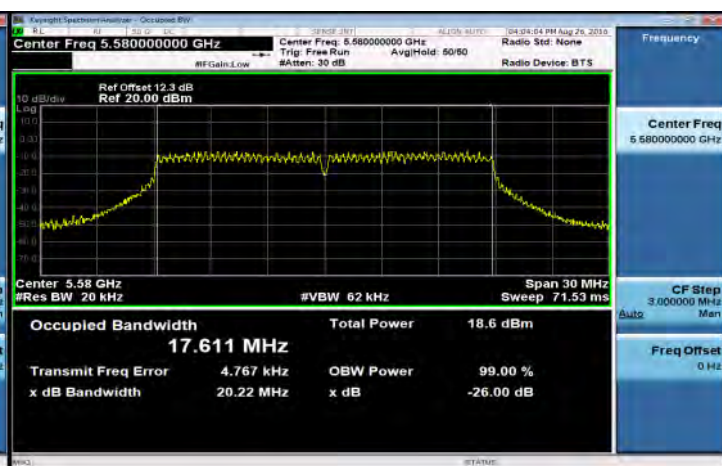
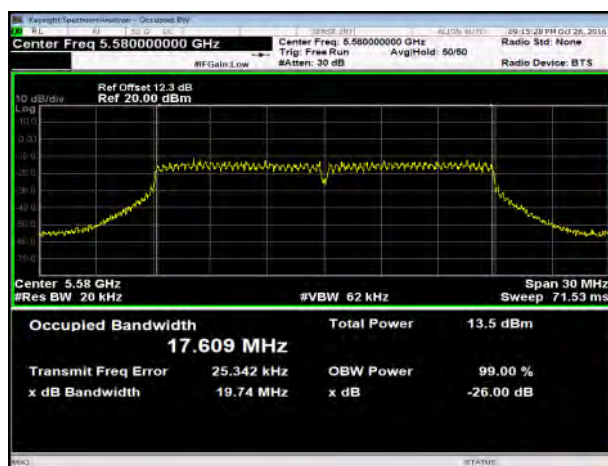
26dB Band Width Test Data CH-Low (5500 MHz)

26dB Band Width Test Data CH-Low (5500 MHz)



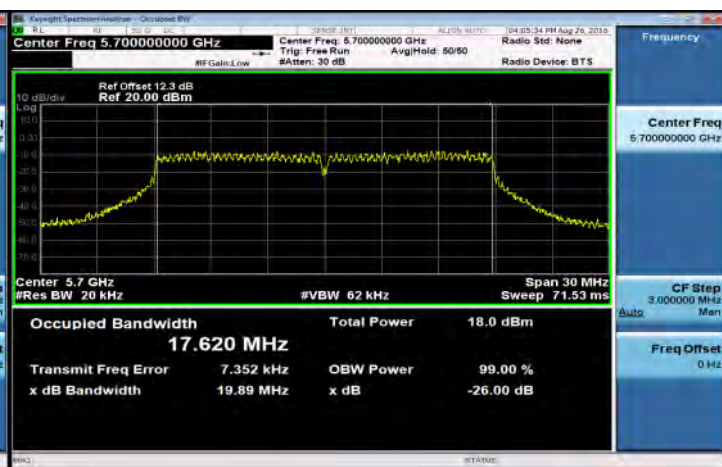
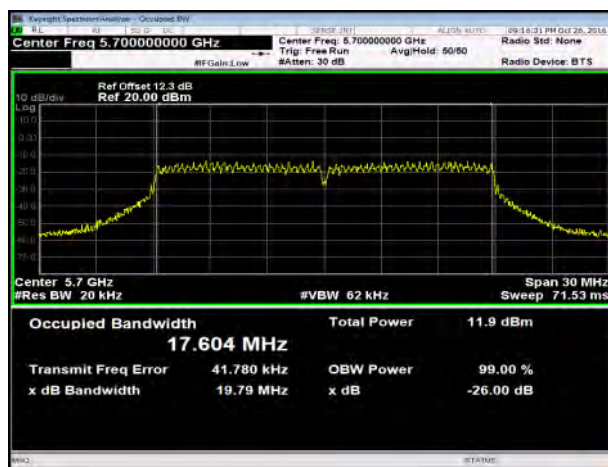
26dB Band Width Test Data CH-Mid (5580 MHz)

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



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

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



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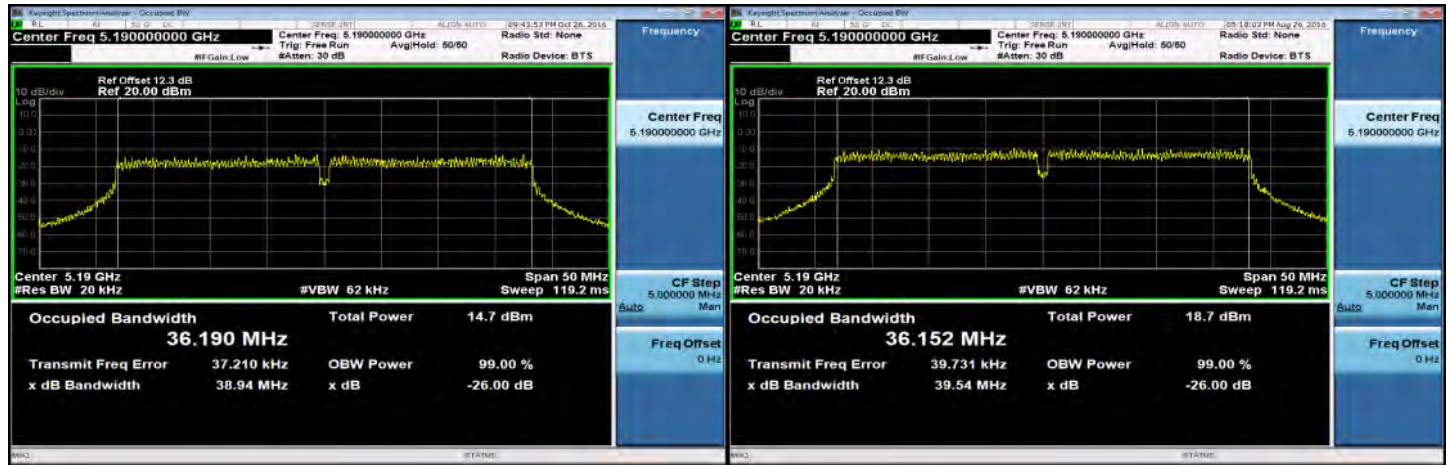
Member of SGS Group

802.11n HT40, 5150~5250 MHz (Main)

802.11n HT40, 5150~5250 MHz (Aux)

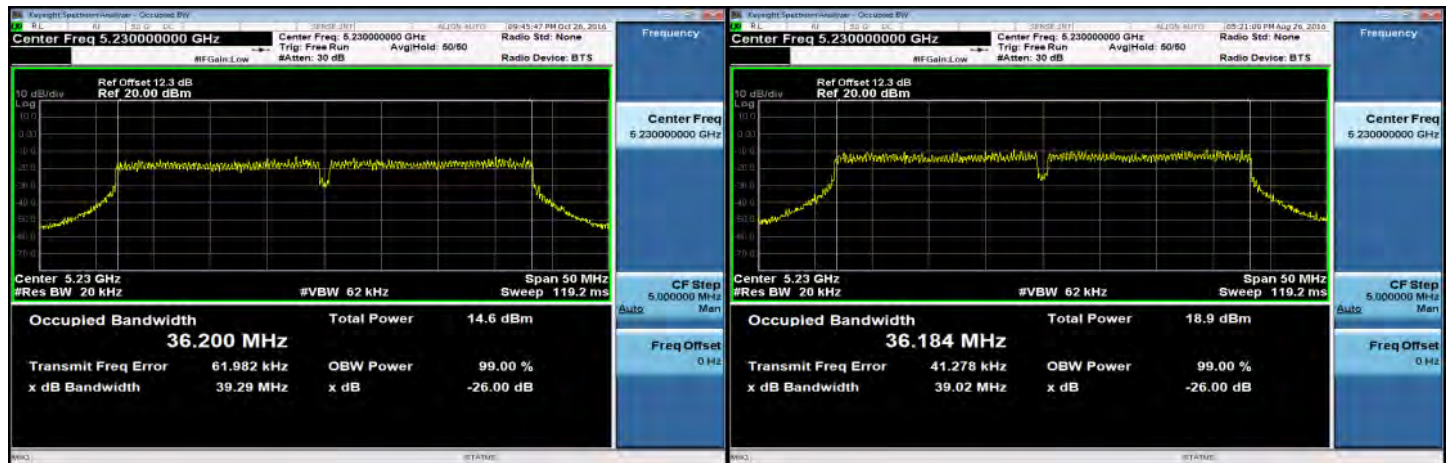
26dB Band Width Test Data CH-Low (5190 MHz)

26dB Band Width Test Data CH-Low (5190 MHz)



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

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



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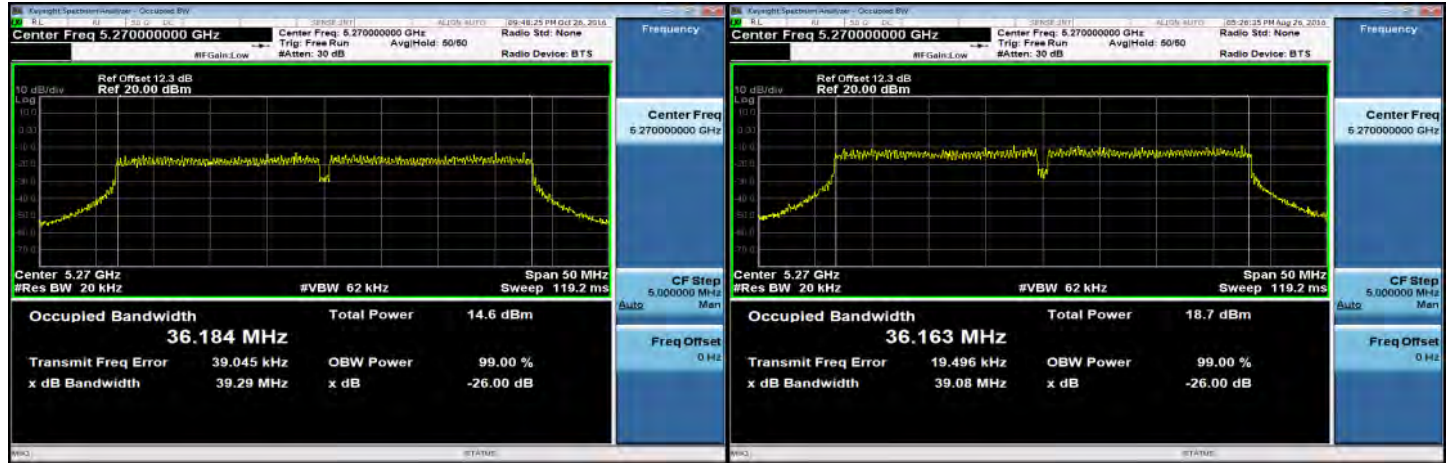
Member of SGS Group

802.11n HT40, 5250~5350 MHz (Main)

802.11n HT40, 5250~5350 MHz (Aux)

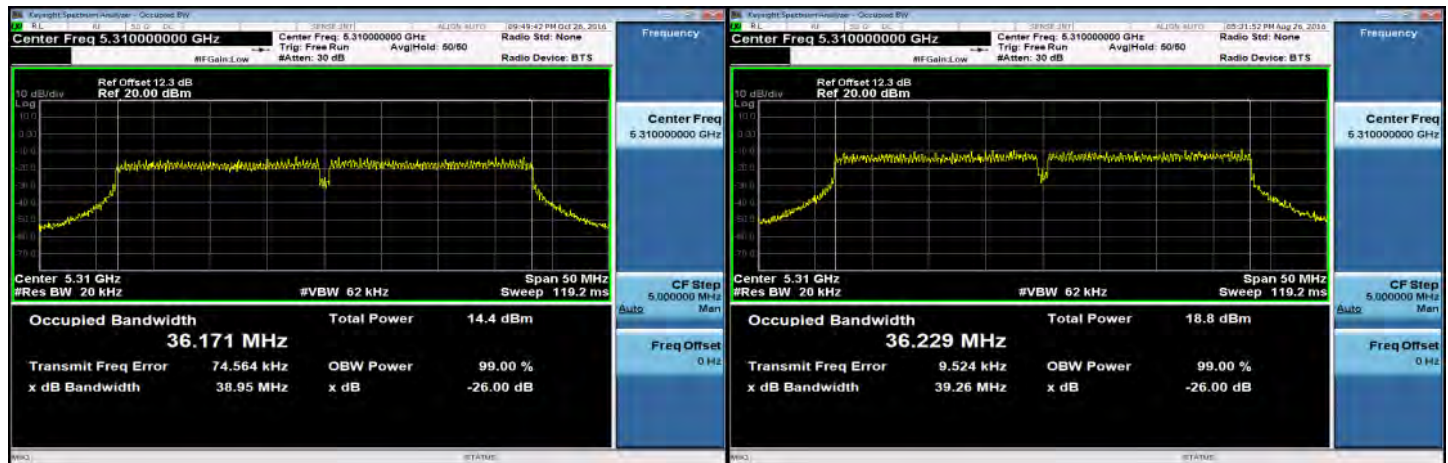
26dB Band Width Test Data CH-Low (5270 MHz)

26dB Band Width Test Data CH-Low (5270 MHz)



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

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



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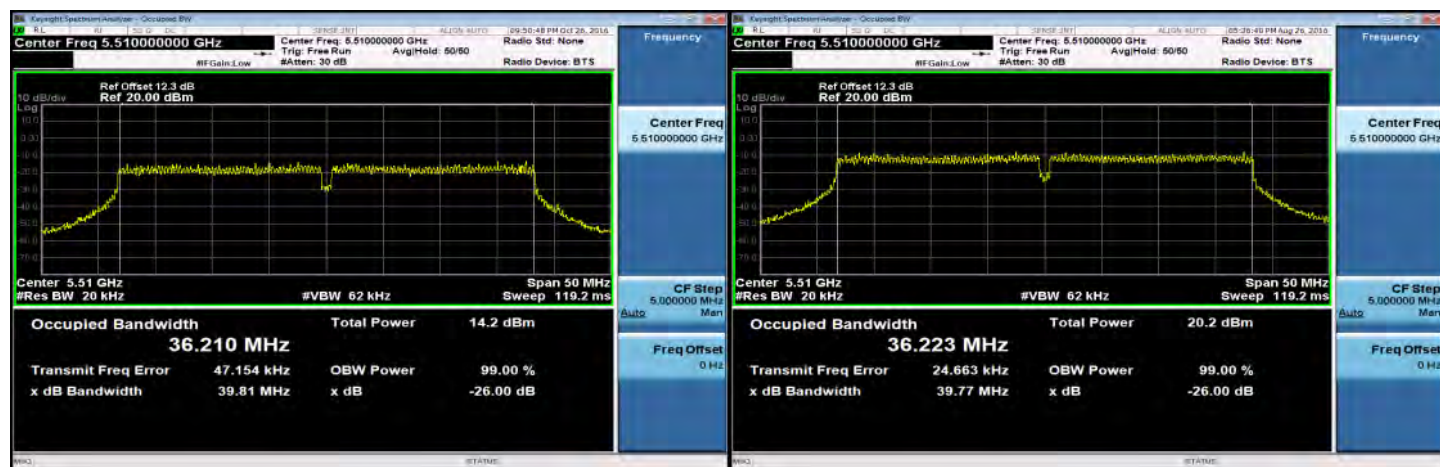
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802.11n HT40, 5470~5725 MHz (Main)

802.11n HT40, 5470~5725 MHz (Aux)

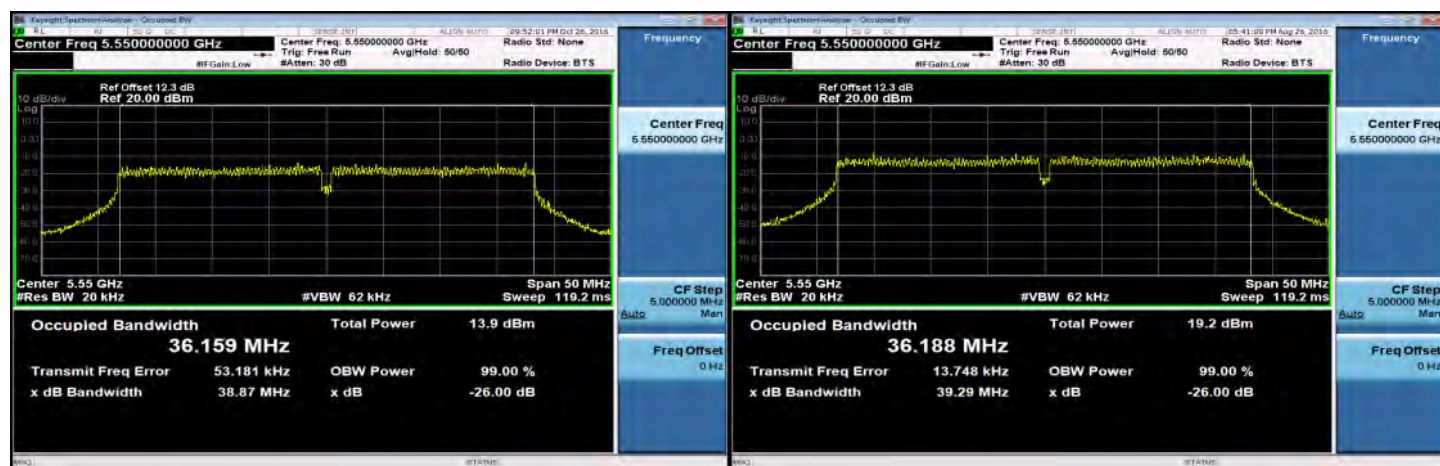
26dB Band Width Test Data CH-Low (5510 MHz)

26dB Band Width Test Data CH-Low (5510 MHz)



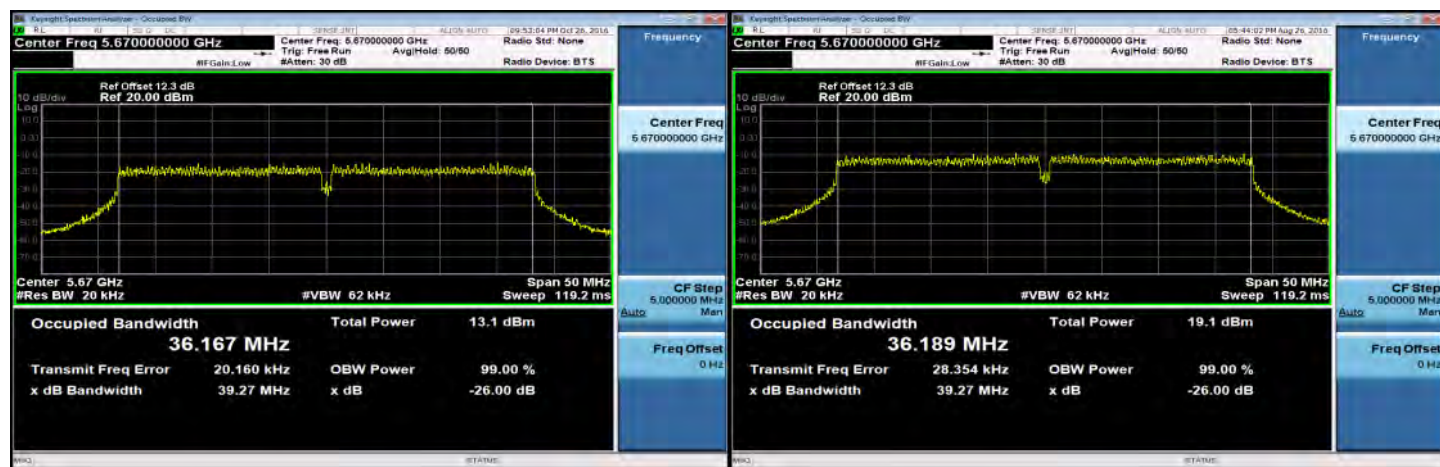
26dB Band Width Test Data CH-Mid (5550 MHz)

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



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

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



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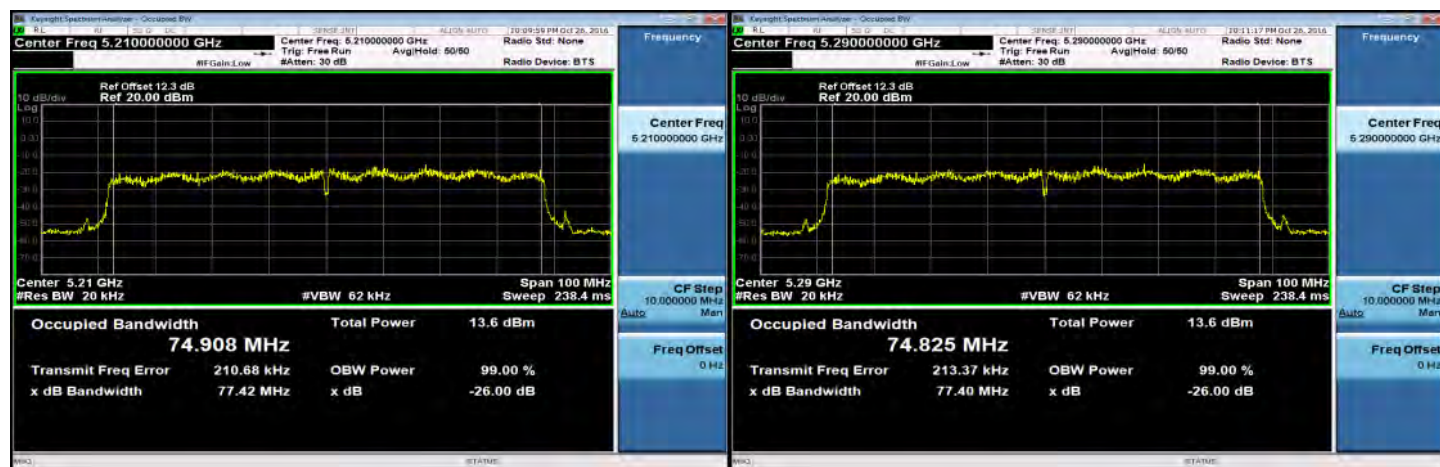
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802.11ac VHT80, 5150~5250 MHz (Main)

802.11ac VHT80, 5250~5350 MHz (Main)

26dB Band Width Test Data CH-Mid (5210 MHz)

26dB Band Width Test Data CH-Mid (5290 MHz)

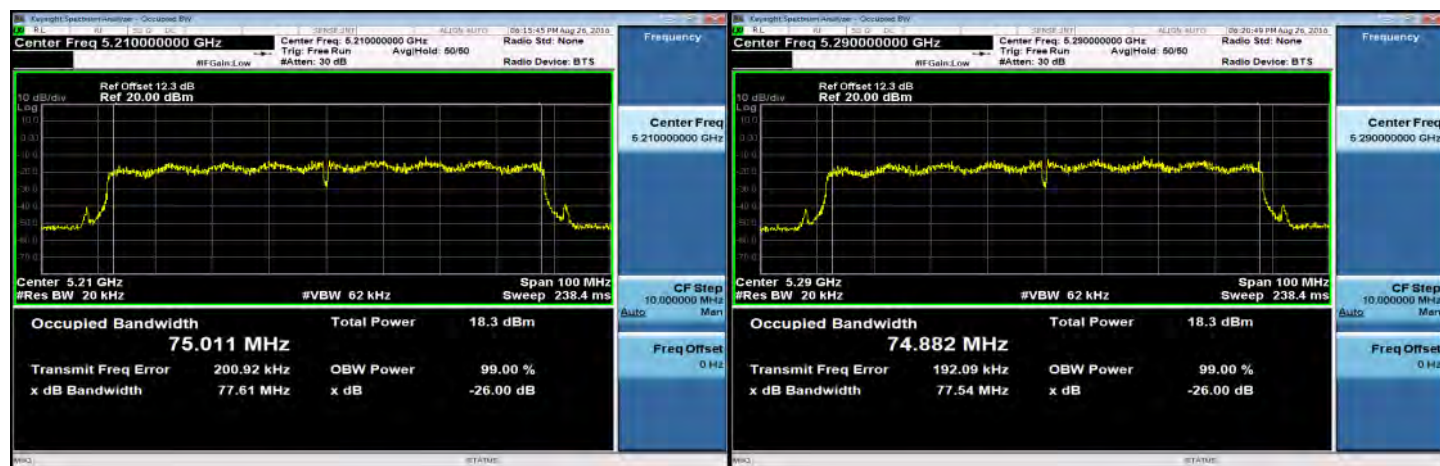


802.11ac VHT80, 5150~5250 MHz (Aux)

802.11ac VHT80, 5250~5350 MHz (Aux)

26dB Band Width Test Data CH-Mid (5210 MHz)

26dB Band Width Test Data CH-Mid (5290 MHz)



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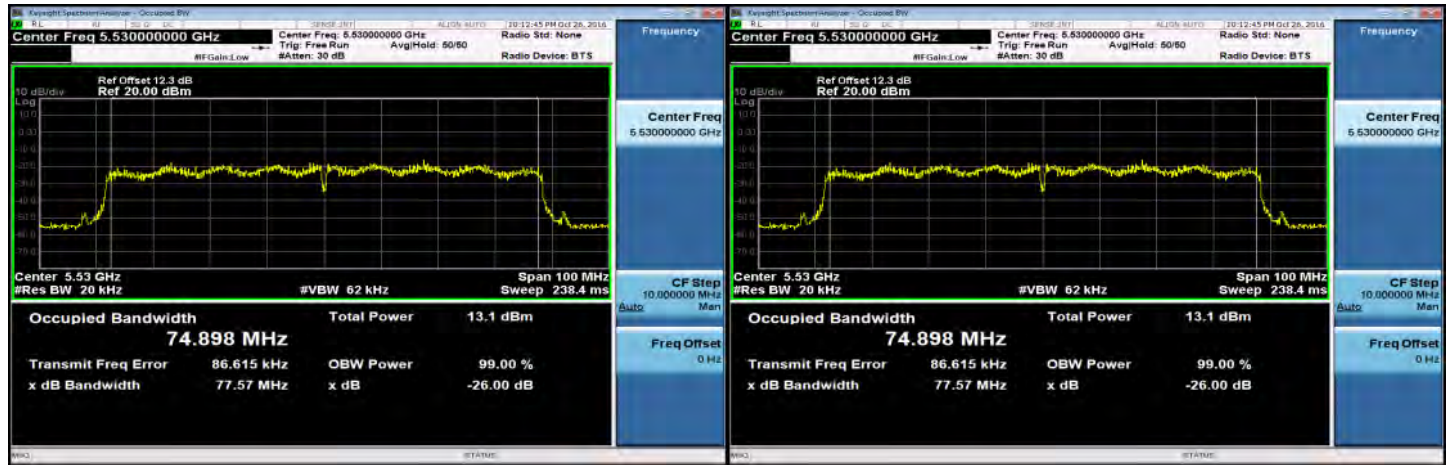
Member of SGS Group

802.11ac VHT80, 5470~5725 MHz (Main)

802.11ac VHT80, 5470~5725 MHz (Main)

26dB Band Width Test Data CH-Low (5530 MHz)

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

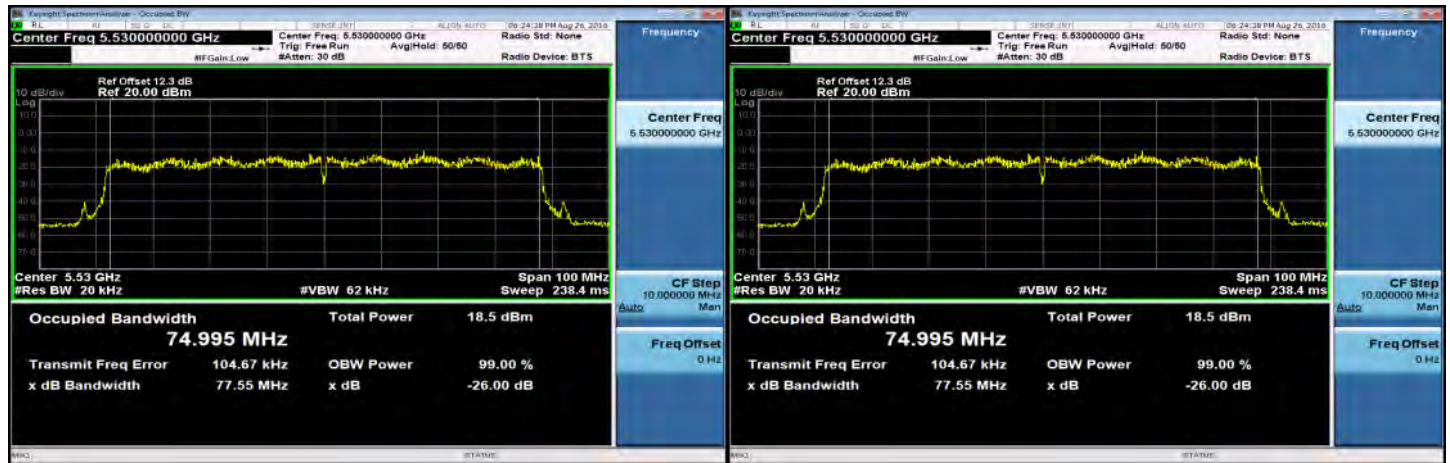


802.11ac VHT80, 5470~5725 MHz (Aux)

802.11ac VHT80, 5470~5725 MHz (Aux)

26dB Band Width Test Data CH-Low (5530 MHz)

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



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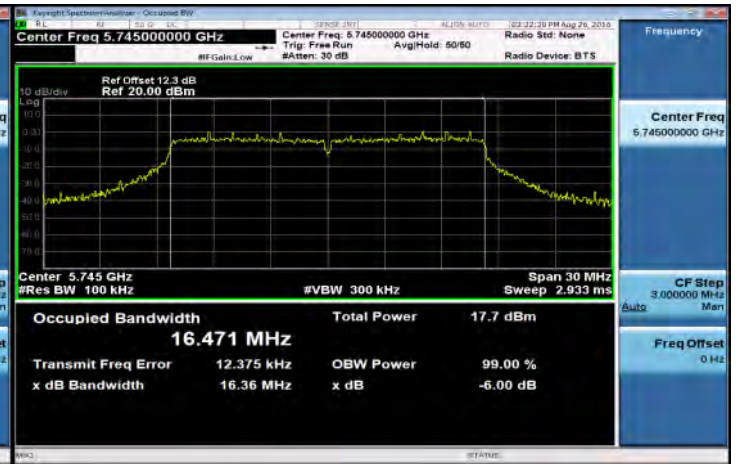
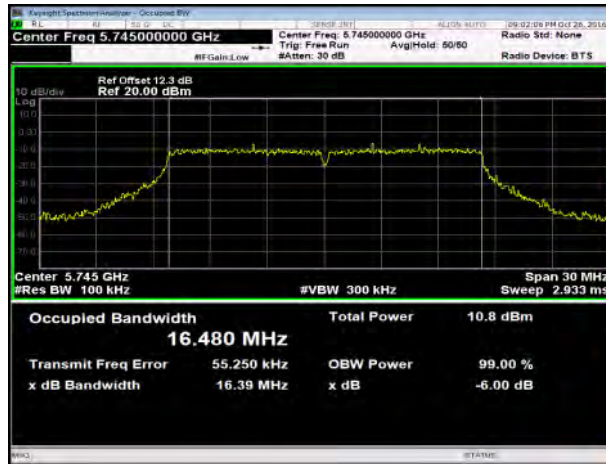
6dB Band Width

802.11a, 5725~5850 MHz (Main)

802.11a, 5725~5850 MHz (Aux)

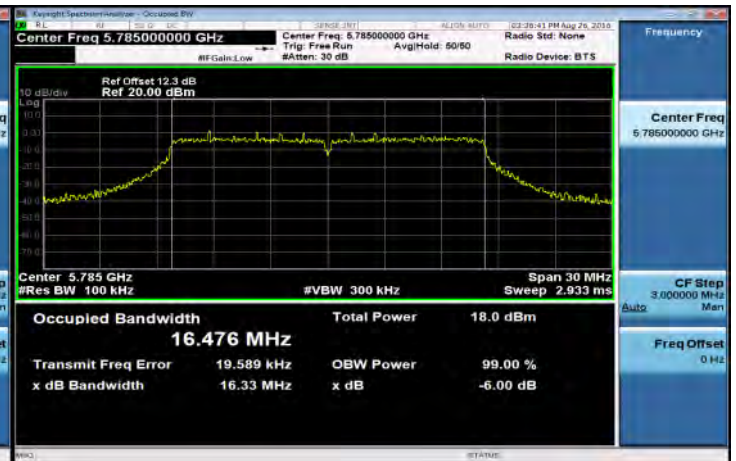
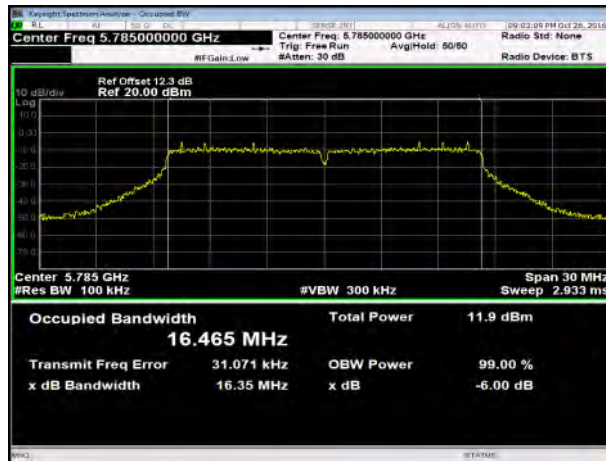
6dB Band Width Test Data CH-Low (5745 MHz)

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



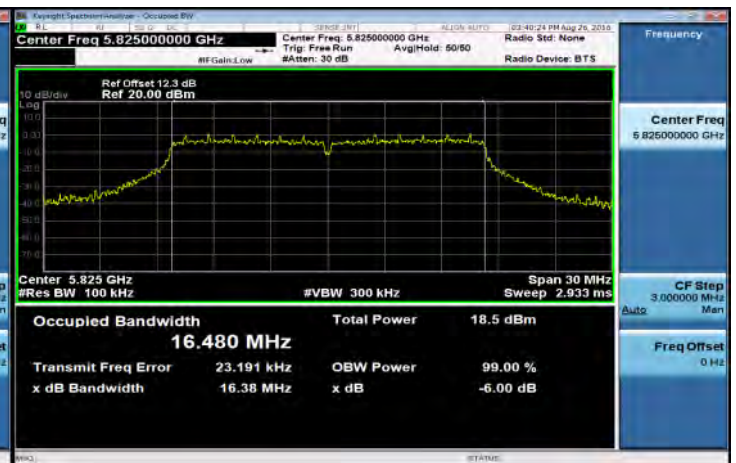
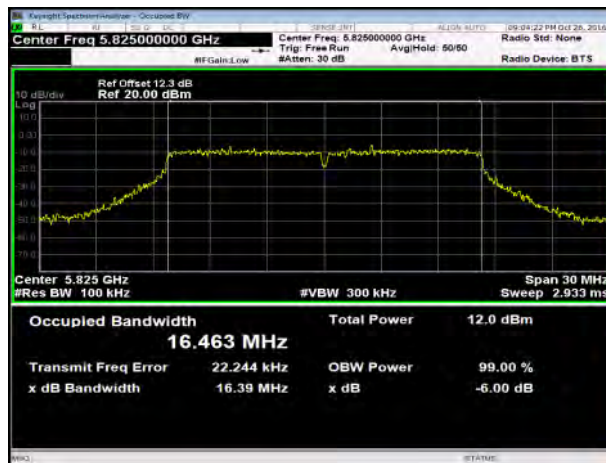
6dB Band Width Test Data CH-Mid (5785 MHz)

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



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

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



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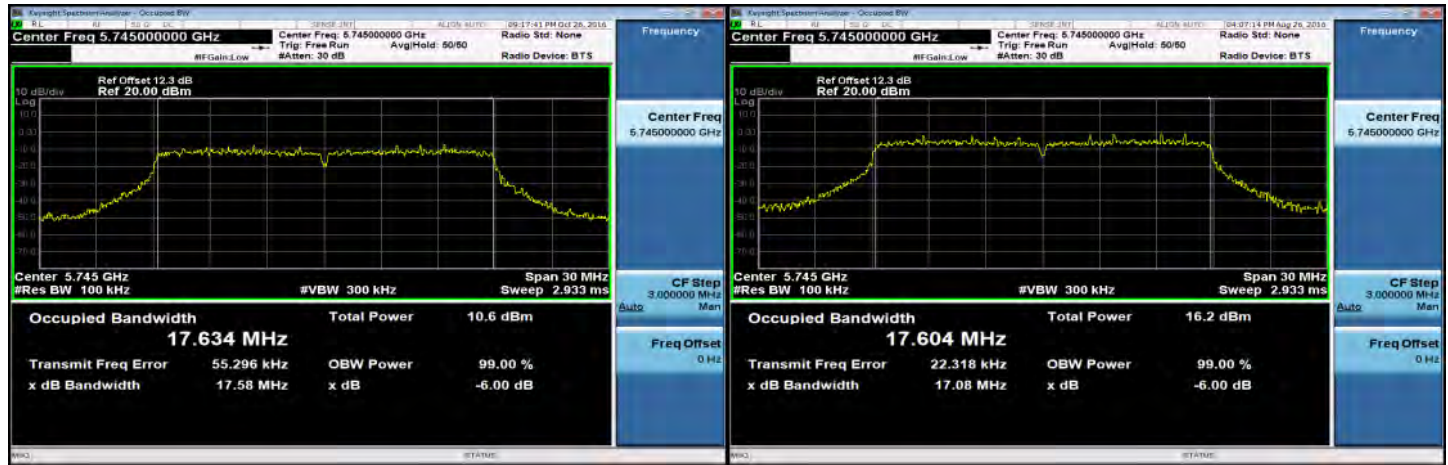
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802.11n\_HT20, 5725~5850 MHz (Main)

802.11n\_HT20, 5725~5850 MHz (Aux)

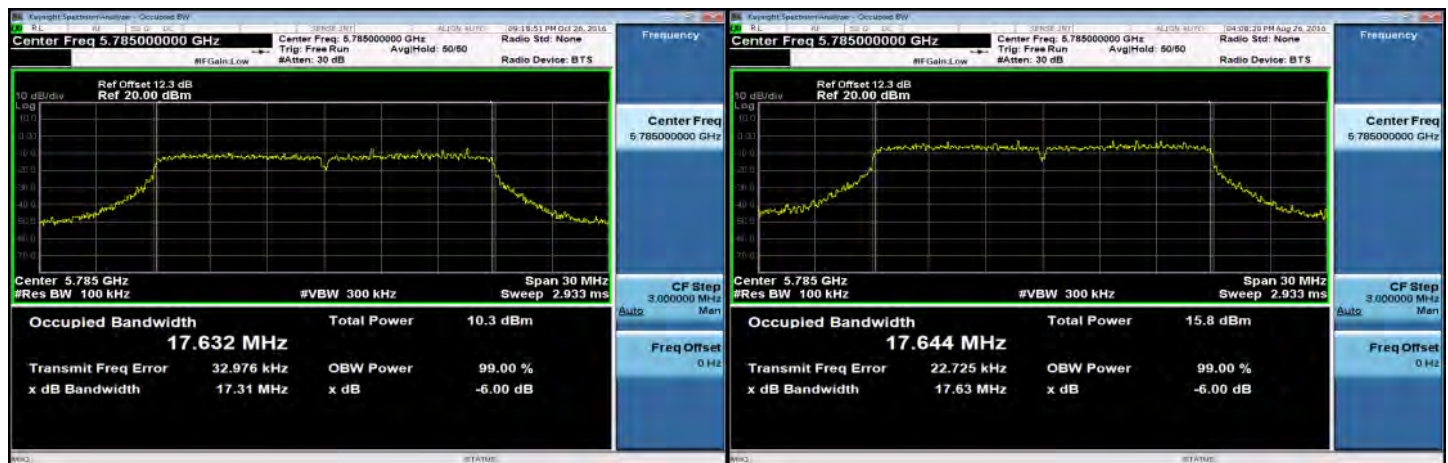
6dB Band Width Test Data CH-Low (5745 MHz)

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



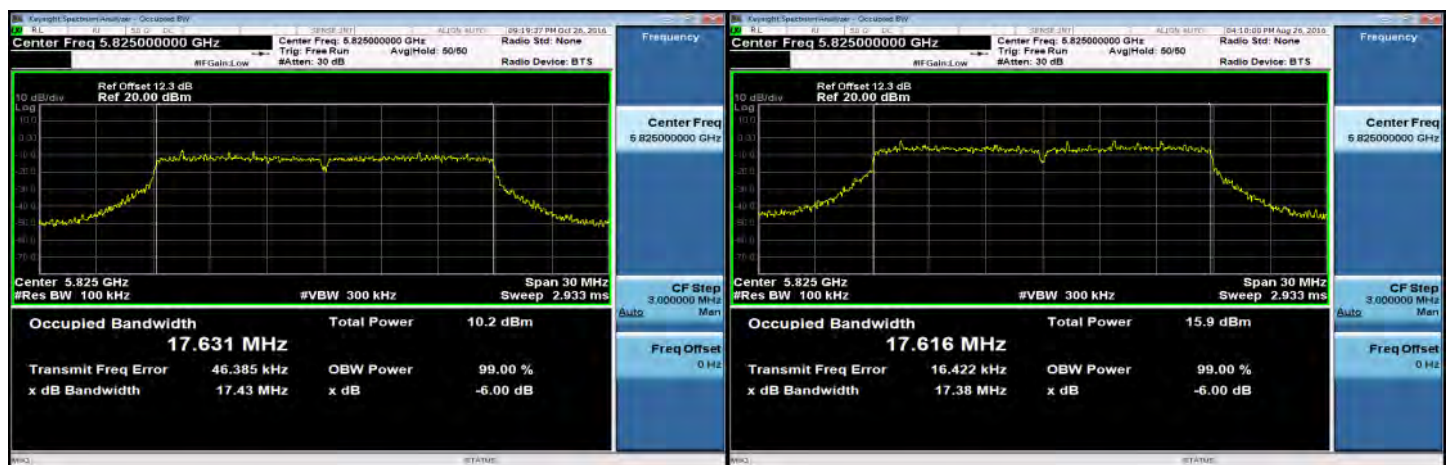
6dB Band Width Test Data CH-Mid (5785 MHz)

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



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

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



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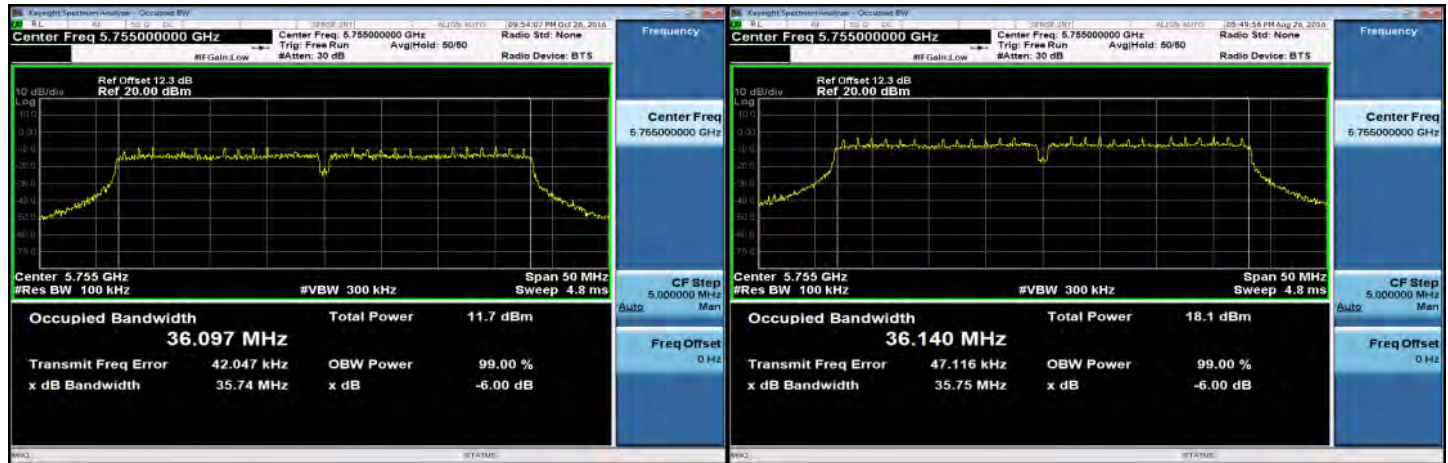
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802.11n\_HT40, 5725~5850 MHz (Main)

802.11n\_HT40, 5725~5850 MHz (Aux)

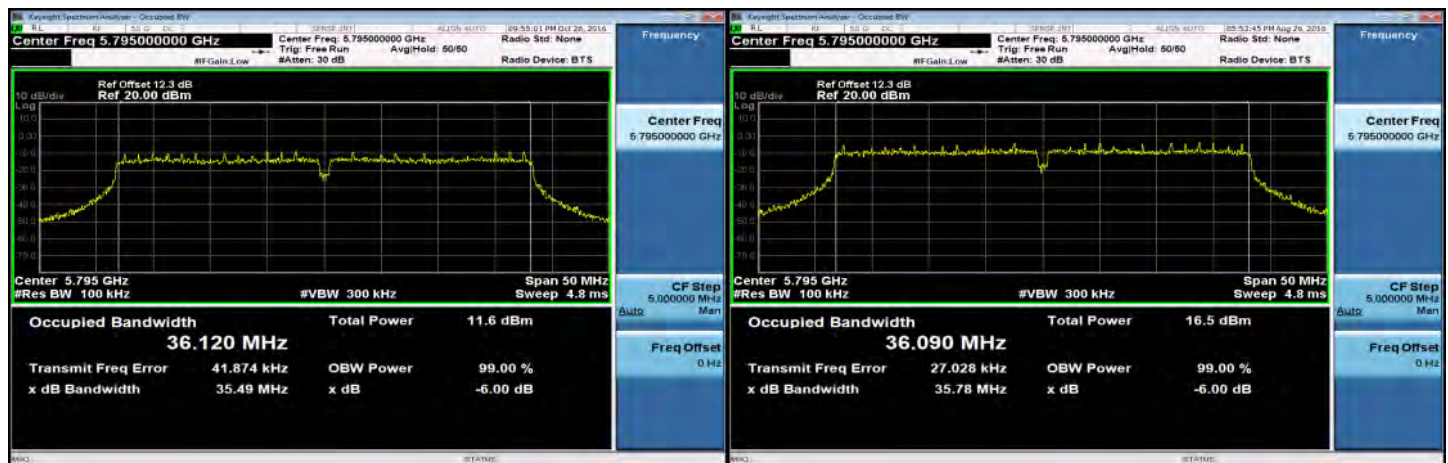
6dB Band Width Test Data CH-Low (5755 MHz)

6dB Band Width Test Data CH-Low (5755 MHz)



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

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



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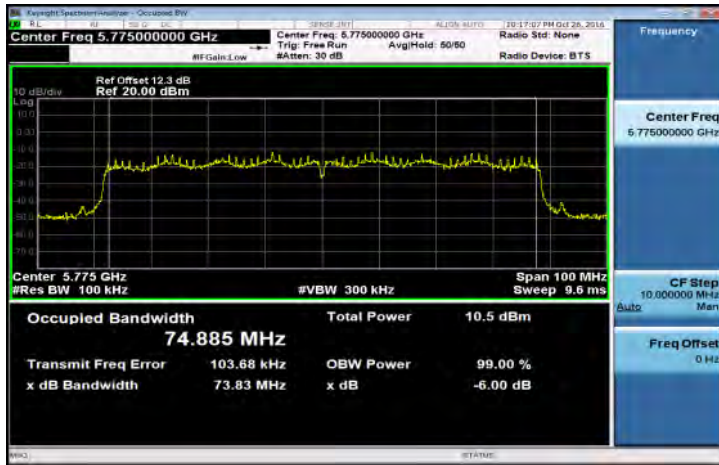
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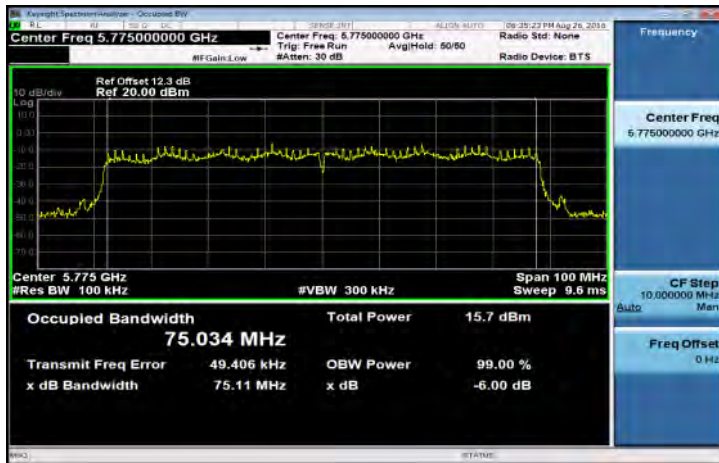
802.11ac VHT80, 5725~5850 MHz (Main)

6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux)

6dB Band Width Test Data CH-Low (5775 MHz)



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## 9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

### 9.1 Standard Applicable

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.

### 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 v01r01.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add 10 log(1/duty cycle).
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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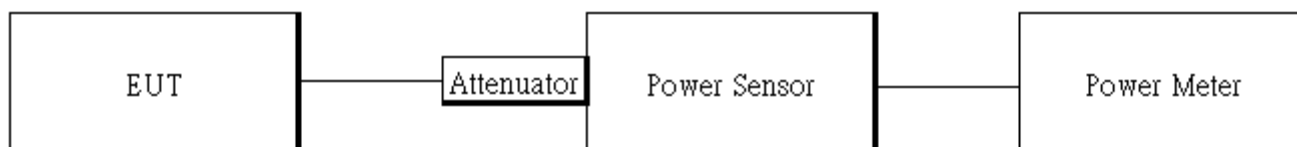
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### 9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

### 9.4 Test Set-up



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## 9.5 Measurement Result

### Conducted output power

#### 802.11a\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
36	5180	MCS0	12.77	18.923	23.98	PASS
44	5220	MCS0	12.76	18.880	23.98	PASS
48	5240	MCS0	12.63	18.323	23.98	PASS
52	5260	MCS0	12.82	19.143	23.98 or $11+10\log(B) = 23.85$	PASS
60	5300	MCS0	12.78	18.967	23.98 or $11+10\log(B) = 23.81$	PASS
64	5320	MCS0	12.73	18.750	23.98 or $11+10\log(B) = 23.79$	PASS
100	5500	MCS0	12.76	18.880	23.98 or $11+10\log(B) = 23.85$	PASS
116	5580	MCS0	12.81	19.099	23.98 or $11+10\log(B) = 23.91$	PASS
140	5700	MCS0	12.80	19.055	23.98 or $11+10\log(B) = 23.81$	PASS
149	5745	MCS0	12.79	19.011	30	PASS
157	5785	MCS0	12.79	19.011	30	PASS
165	5825	MCS0	12.83	19.187	30	PASS

#### 802.11a\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
36	5180	MCS0	12.98	19.861	23.98	PASS
44	5220	MCS0	12.94	19.679	23.98	PASS
48	5240	MCS0	12.84	19.231	23.98	PASS
52	5260	MCS0	12.96	19.770	23.98 or $11+10\log(B) = 23.93$	PASS
60	5300	MCS0	12.94	19.679	23.98 or $11+10\log(B) = 23.90$	PASS
64	5320	MCS0	12.91	19.543	23.98 or $11+10\log(B) = 23.80$	PASS
100	5500	MCS0	12.96	19.770	23.98 or $11+10\log(B) = 23.85$	PASS
116	5580	MCS0	12.95	19.724	23.98 or $11+10\log(B) = 23.80$	PASS
140	5700	MCS0	12.97	19.815	23.98 or $11+10\log(B) = 23.85$	PASS
149	5745	MCS0	12.96	19.770	30	PASS
157	5785	MCS0	12.94	19.679	30	PASS
165	5825	MCS0	12.96	19.770	30	PASS

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### 802.11n\_HT20\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.61	14.488	23.98	PASS
44	5220	MCS0	11.78	15.066	23.98	PASS
48	5240	MCS0	<b>11.80</b>	<b>15.136</b>	23.98	PASS
52	5260	MCS0	11.71	14.825	23.98 or $11+10\log(B) = 23.96$	PASS
60	5300	MCS0	<b>11.75</b>	<b>14.962</b>	23.98 or $11+10\log(B) = 23.96$	PASS
64	5320	MCS0	11.68	14.723	23.98 or $11+10\log(B) = 23.93$	PASS
100	5500	MCS0	11.74	14.928	23.98 or $11+10\log(B) = 23.97$	PASS
116	5580	MCS0	11.75	14.962	23.98 or $11+10\log(B) = 23.95$	PASS
140	5700	MCS0	<b>11.80</b>	<b>15.136</b>	23.98 or $11+10\log(B) = 23.96$	PASS
149	5745	MCS0	<b>11.76</b>	<b>14.997</b>	30	PASS
157	5785	MCS0	11.71	14.825	30	PASS
165	5825	MCS0	11.75	14.962	30	PASS

### 802.11n\_HT20\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.83	15.241	23.98	PASS
44	5220	MCS0	11.94	15.631	23.98	PASS
48	5240	MCS0	<b>11.95</b>	<b>15.668</b>	23.98	PASS
52	5260	MCS0	11.89	15.453	23.98 or $11+10\log(B) = 24.02$	PASS
60	5300	MCS0	<b>11.97</b>	<b>15.740</b>	23.98 or $11+10\log(B) = 23.99$	PASS
64	5320	MCS0	11.84	15.276	23.98 or $11+10\log(B) = 24.08$	PASS
100	5500	MCS0	<b>11.96</b>	<b>15.704</b>	23.98 or $11+10\log(B) = 24.02$	PASS
116	5580	MCS0	11.92	15.560	23.98 or $11+10\log(B) = 24.06$	PASS
140	5700	MCS0	11.95	15.668	23.98 or $11+10\log(B) = 23.99$	PASS
149	5745	MCS0	<b>11.98</b>	<b>15.776</b>	30	PASS
157	5785	MCS0	11.86	15.346	30	PASS
165	5825	MCS0	11.93	15.596	30	PASS

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f (886-2) 2298-0488

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## 802.11n\_HT40\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
38	5190	MCS0	11.79	15.101	23.98	PASS
46	5230	MCS0	11.76	14.997	23.98	PASS
54	5270	MCS0	11.79	15.101	23.98 or $11+10\log(B) = 26.94$	PASS
62	5310	MCS0	11.58	14.388	23.98 or $11+10\log(B) = 26.91$	PASS
102	5510	MCS0	11.75	14.962	23.98 or $11+10\log(B) = 27.00$	PASS
110	5550	MCS0	11.65	14.622	23.98 or $11+10\log(B) = 26.90$	PASS
134	5670	MCS0	11.79	15.101	23.98 or $11+10\log(B) = 26.94$	PASS
151	5755	MCS0	11.78	15.066	30	PASS
159	5795	MCS0	11.79	15.101	30	PASS

## 802.11n\_HT40\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
38	5190	MCS0	11.98	15.776	23.98	PASS
46	5230	MCS0	11.93	15.596	23.98	PASS
54	5270	MCS0	11.97	15.740	23.98 or $11+10\log(B) = 26.92$	PASS
62	5310	MCS0	11.75	14.962	23.98 or $11+10\log(B) = 26.94$	PASS
102	5510	MCS0	11.96	15.704	23.98 or $11+10\log(B) = 27.00$	PASS
110	5550	MCS0	11.81	15.171	23.98 or $11+10\log(B) = 26.94$	PASS
134	5670	MCS0	11.98	15.776	23.98 or $11+10\log(B) = 26.94$	PASS
151	5755	MCS0	11.94	15.631	30	PASS
159	5795	MCS0	11.96	15.704	30	PASS

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f (886-2) 2298-0488

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## 802.11ac\_VHT20\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	11.39	13.772	23.98	PASS
44	5220	MCS0	<b>11.62</b>	<b>14.521</b>	23.98	PASS
48	5240	MCS0	11.61	14.488	23.98	PASS
52	5260	MCS0	11.49	14.093	23.98 or $11+10\log(B) = 24.08$	PASS
60	5300	MCS0	<b>11.65</b>	<b>14.622</b>	23.98 or $11+10\log(B) = 23.94$	PASS
64	5320	MCS0	11.50	14.125	23.98 or $11+10\log(B) = 24.06$	PASS
100	5500	MCS0	11.62	14.521	23.98 or $11+10\log(B) = 23.96$	PASS
116	5580	MCS0	11.59	14.421	23.98 or $11+10\log(B) = 23.98$	PASS
140	5700	MCS0	<b>11.63</b>	<b>14.555</b>	23.98 or $11+10\log(B) = 24.00$	PASS
149	5745	MCS0	<b>11.69</b>	<b>14.757</b>	30	PASS
157	5785	MCS0	11.55	14.289	30	PASS
165	5825	MCS0	11.59	14.421	30	PASS

## 802.11ac\_VHT20\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
36	5180	MCS0	11.69	14.757	23.98	PASS
44	5220	MCS0	11.80	15.136	23.98	PASS
48	5240	MCS0	<b>11.83</b>	<b>15.241</b>	23.98	PASS
52	5260	MCS0	11.77	15.031	23.98 or $11+10\log(B) = 24.06$	PASS
60	5300	MCS0	<b>11.82</b>	<b>15.205</b>	23.98 or $11+10\log(B) = 24.00$	PASS
64	5320	MCS0	11.69	14.757	23.98 or $11+10\log(B) = 24.05$	PASS
100	5500	MCS0	<b>11.82</b>	<b>15.205</b>	23.98 or $11+10\log(B) = 24.03$	PASS
116	5580	MCS0	11.79	15.101	23.98 or $11+10\log(B) = 23.99$	PASS
140	5700	MCS0	11.80	15.136	23.98 or $11+10\log(B) = 23.96$	PASS
149	5745	MCS0	<b>11.85</b>	<b>15.311</b>	30	PASS
157	5785	MCS0	11.75	14.962	30	PASS
165	5825	MCS0	11.81	15.171	30	PASS

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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## 802.11ac\_VHT40\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
38	5190	MCS0	11.53	14.223	23.98	PASS
46	5230	MCS0	11.56	14.322	23.98	PASS
54	5270	MCS0	11.57	14.355	23.98 or $11+10\log(B) = 26.92$	PASS
62	5310	MCS0	11.41	13.836	23.98 or $11+10\log(B) = 26.94$	PASS
102	5510	MCS0	11.65	14.622	23.98 or $11+10\log(B) = 26.93$	PASS
110	5550	MCS0	11.51	14.158	23.98 or $11+10\log(B) = 26.96$	PASS
134	5670	MCS0	11.64	14.588	23.98 or $11+10\log(B) = 26.96$	PASS
151	5755	MCS0	11.59	14.421	30	PASS
159	5795	MCS0	11.63	14.555	30	PASS

## 802.11ac\_VHT40\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
38	5190	MCS0	11.76	14.997	23.98	PASS
46	5230	MCS0	11.83	15.241	23.98	PASS
54	5270	MCS0	11.81	15.171	23.98 or $11+10\log(B) = 26.96$	PASS
62	5310	MCS0	11.68	14.723	23.98 or $11+10\log(B) = 26.96$	PASS
102	5510	MCS0	11.80	15.136	23.98 or $11+10\log(B) = 26.94$	PASS
110	5550	MCS0	11.67	14.689	23.98 or $11+10\log(B) = 26.97$	PASS
134	5670	MCS0	11.83	15.241	23.98 or $11+10\log(B) = 26.97$	PASS
151	5755	MCS0	11.78	15.066	30	PASS
159	5795	MCS0	11.80	15.136	30	PASS

## 802.11ac\_VHT80\_Main Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
42	5210	MCS0	9.75	9.441	23.98	PASS
58	5290	MCS0	9.78	9.506	23.98 or $11+10\log(B) = 29.89$	PASS
106	5530	MCS0	9.69	9.311	23.98 or $11+10\log(B) = 29.90$	PASS
122	5610	MCS0	9.77	9.484	23.98 or $11+10\log(B) = 29.90$	PASS
155	5775	MCS0	9.69	9.311	30	PASS

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## 802.11ac\_VHT80\_Aux Antenna Port

CH	Frequency (MHz)	Data Rate	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RE SULT
42	5210	MCS0	9.97	9.931	23.98	PASS
58	5290	MCS0	9.96	9.908	23.98 or $11+10\log(B) = 29.90$	PASS
106	5530	MCS0	9.85	9.661	23.98 or $11+10\log(B) = 29.90$	PASS
122	5610	MCS0	9.94	9.863	23.98 or $11+10\log(B) = 29.90$	PASS
155	5775	MCS0	9.83	9.616	30	PASS

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## 10 PEAK POWER SPECTRAL DENSITY

### 10.1 Standard Applicable

OPERZTION Band	EUT CATEGORY		LIMIT
U-NII-1		Access Point (Mater device )	17dBm/ MHz
		Fixed point-to-point 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.

### 10.2 Measurement Procedure

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

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f (886-2) 2298-0488

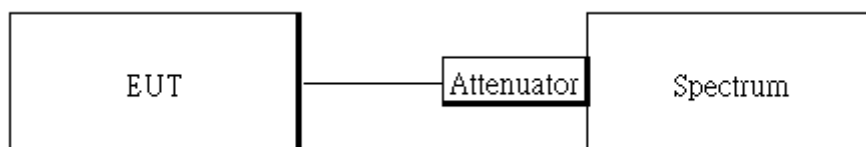
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### 10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

### 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	-0.31	11	-11.31
5220	-3.46	11	-14.46
5240	-2.34	11	-13.34
5260	-2.17	11	-13.17
5300	-3.33	11	-14.33
5320	-0.16	11	-11.16
5500	0.05	11	-10.95
5580	-1.94	11	-12.94
5700	-0.46	11	-11.46
5745	4.53	30	-25.47
5785	4.24	30	-25.76
5825	4.61	30	-25.39

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-5.09	11	-16.09
5220	-3.99	11	-14.99
5240	-3.25	11	-14.25
5260	-2.05	11	-13.05
5300	-2.86	11	-13.86
5320	-2.08	11	-13.08
5500	-0.85	11	-11.85
5580	-2.71	11	-13.71
5700	-1.50	11	-12.50
5745	3.07	30	-26.93
5785	2.02	30	-27.98
5825	2.52	30	-27.48

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-4.99	11	-15.99
5230	-9.1	11	-20.10
5270	-4.29	11	-15.29
5310	-6.71	11	-17.71
5510	-6.83	11	-17.83
5550	-4.35	11	-15.35
5670	-6.84	11	-17.84
5755	0.81	30	-29.19
5795	-0.20	30	-30.20

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-12.37	11	-23.37
5290	-11.00	11	-22.00
5530	-11.19	11	-22.19
5610	-11.46	11	-22.46
5775	-2.18	30	-32.18

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## 802.11a 5150~5250 MHz

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



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



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



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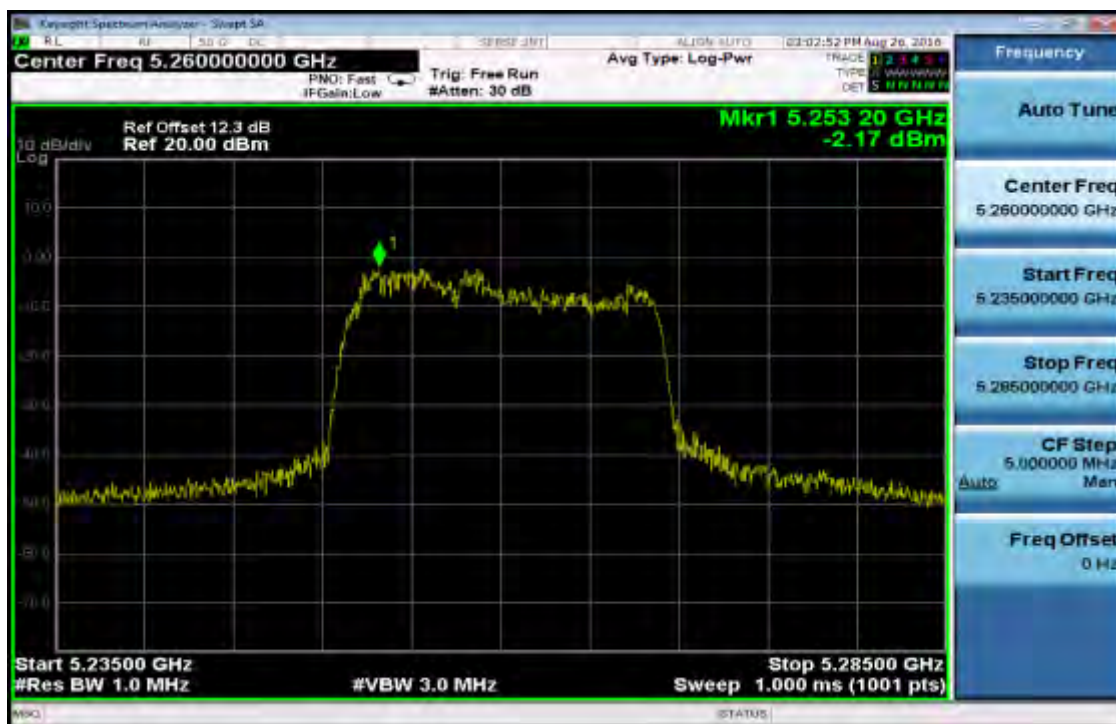
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## 802.11a 5250~5350 MHz

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



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



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



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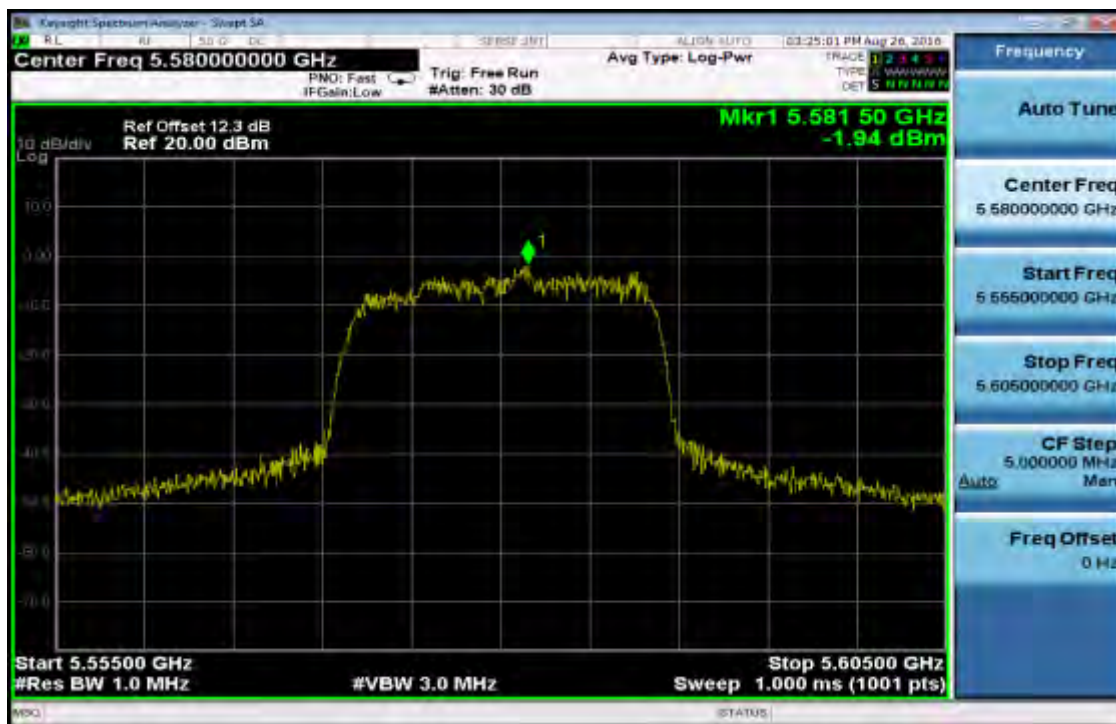
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## 802.11a 5470~5725 MHz

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



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



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



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## 802.11a 5725~5850 MHz

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



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



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



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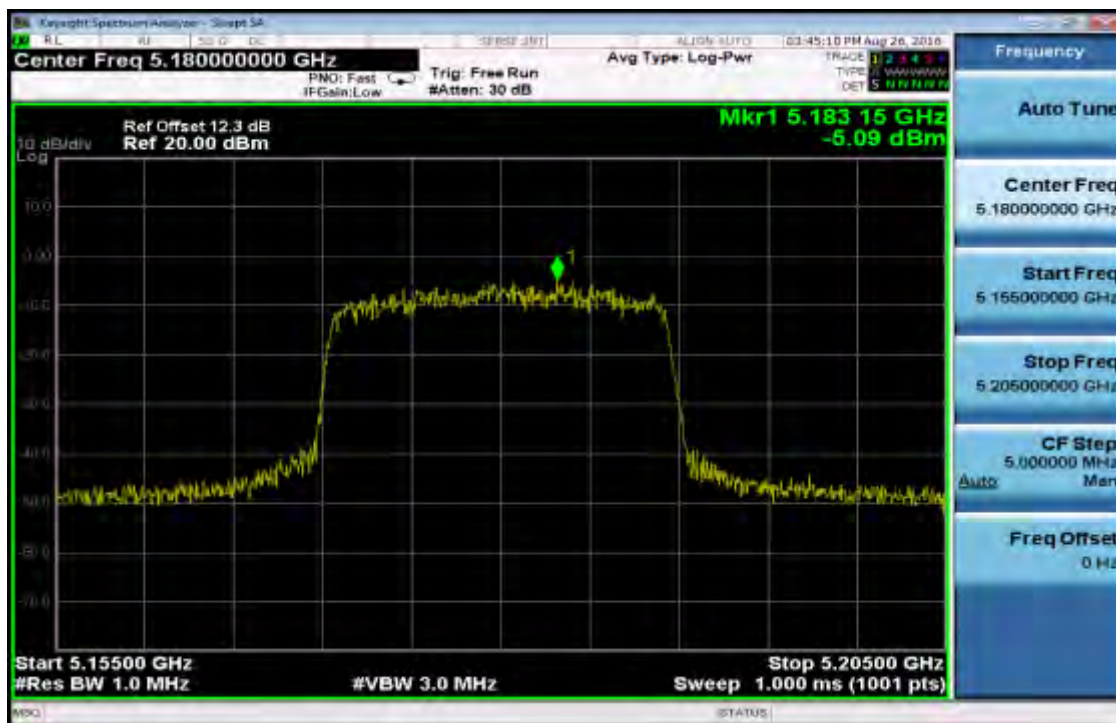
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## 802.11n HT20, 5150~5250 MHz

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



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



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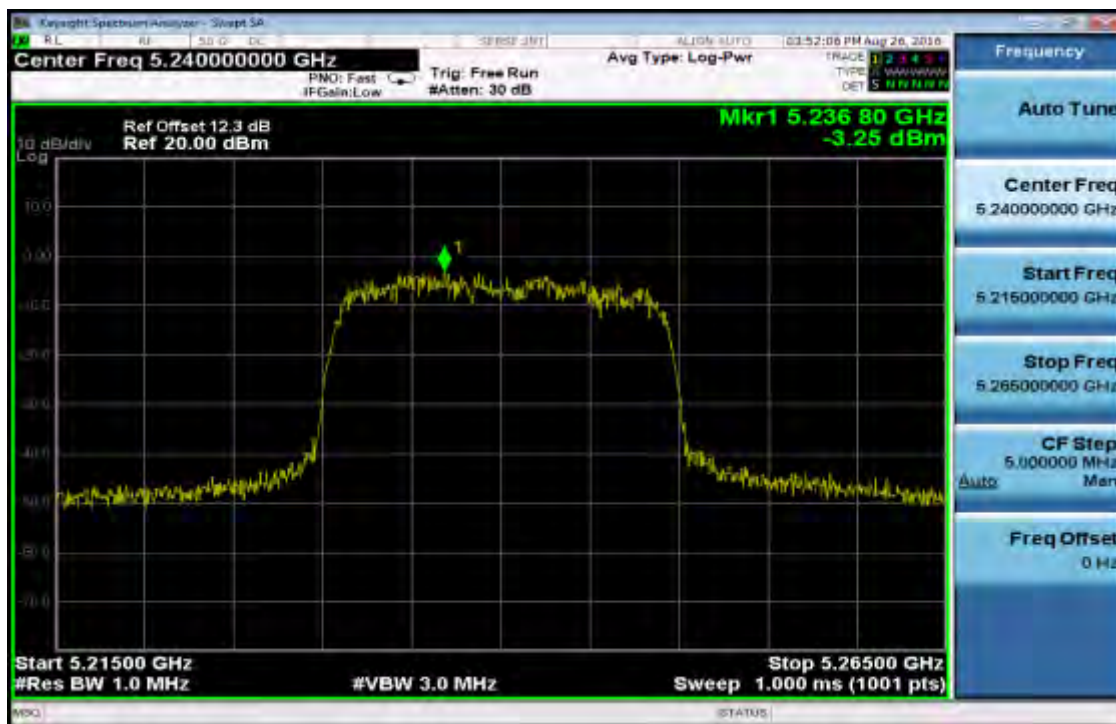
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## Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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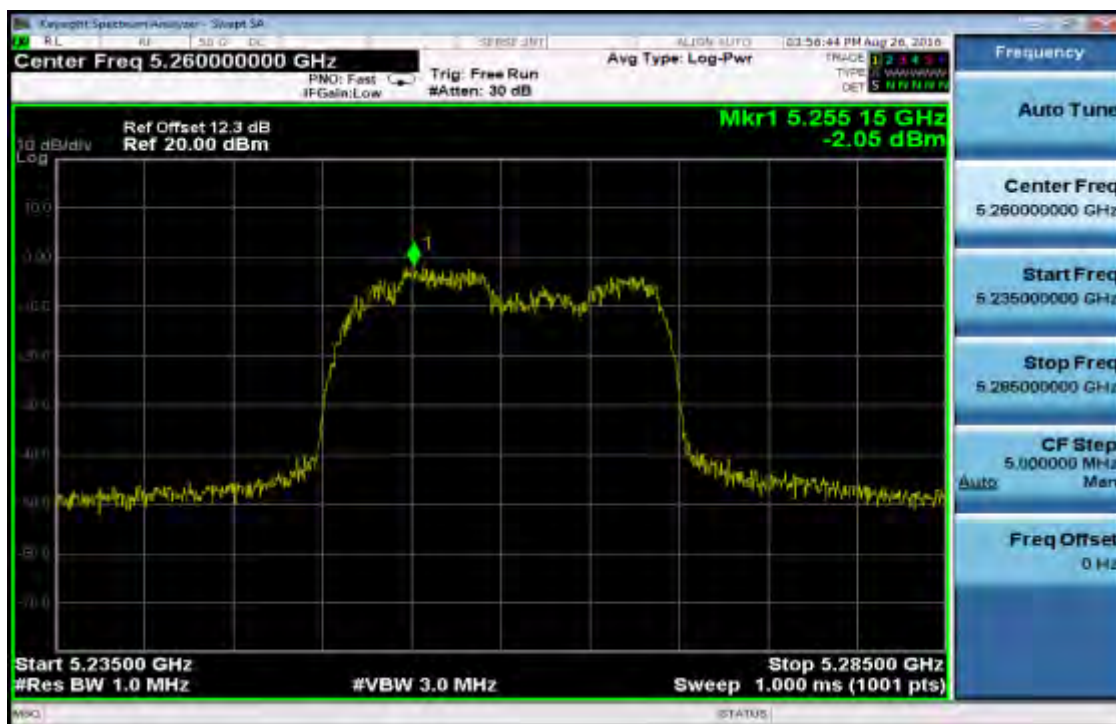
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## 802.11n HT20, 5250~5350 MHz

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



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



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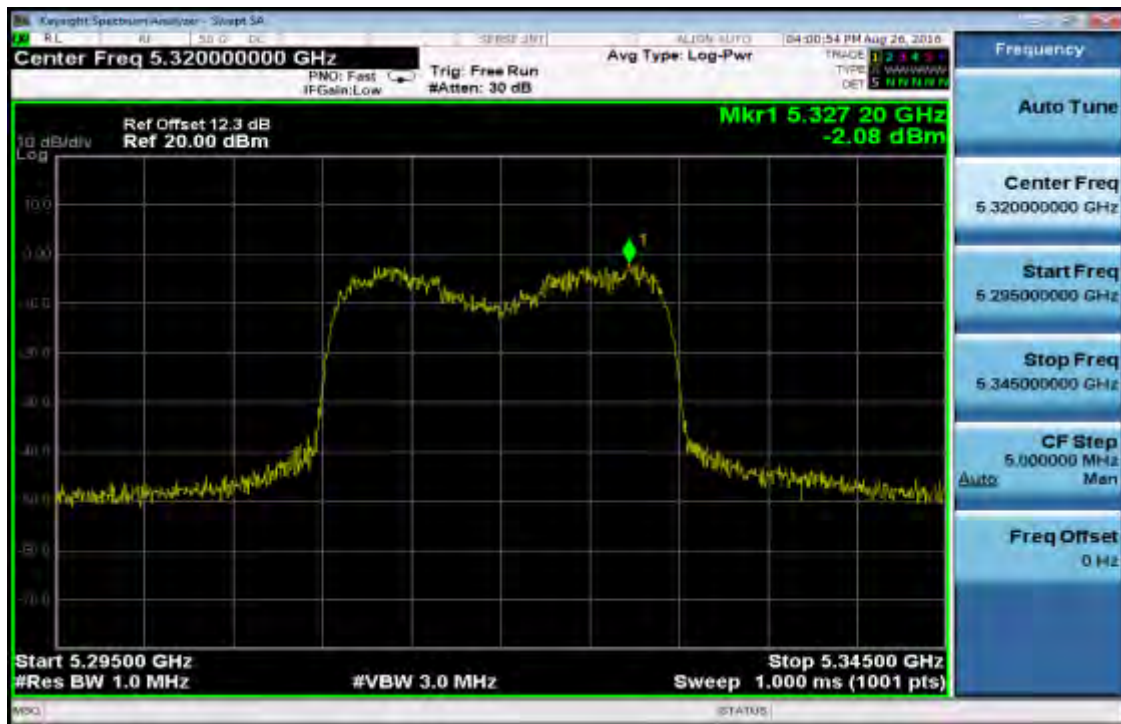
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## Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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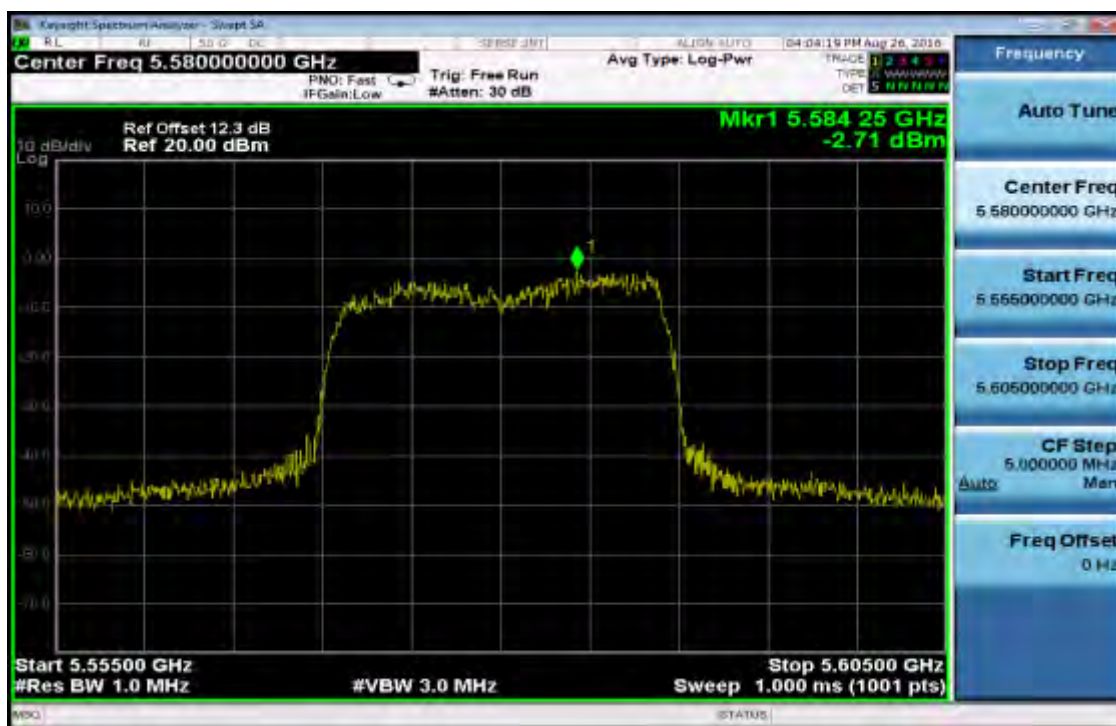
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## 802.11n HT20, 5470~5725 MHz

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



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



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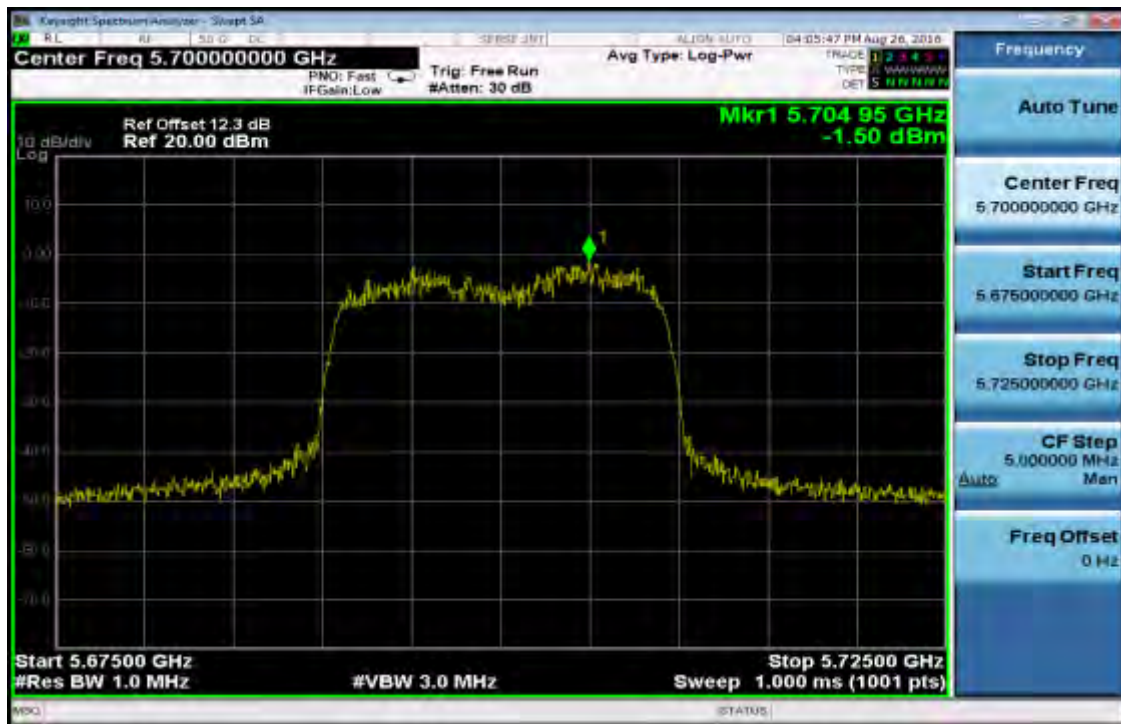
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f (886-2) 2298-0488

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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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f (886-2) 2298-0488

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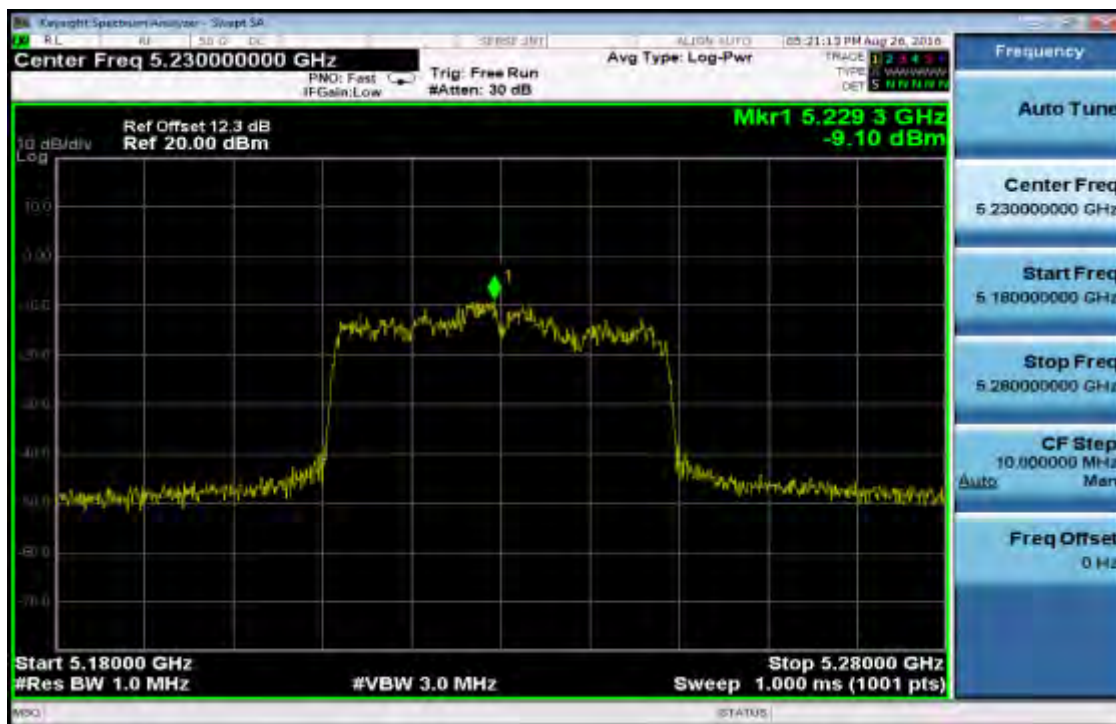
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## 802.11n HT40, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Low 5190 MHz)



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



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## 802.11n HT40, 5250~5350 MHz

### Peak Power Spectral Density Data Plot (CH Low 5270 MHz)



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



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



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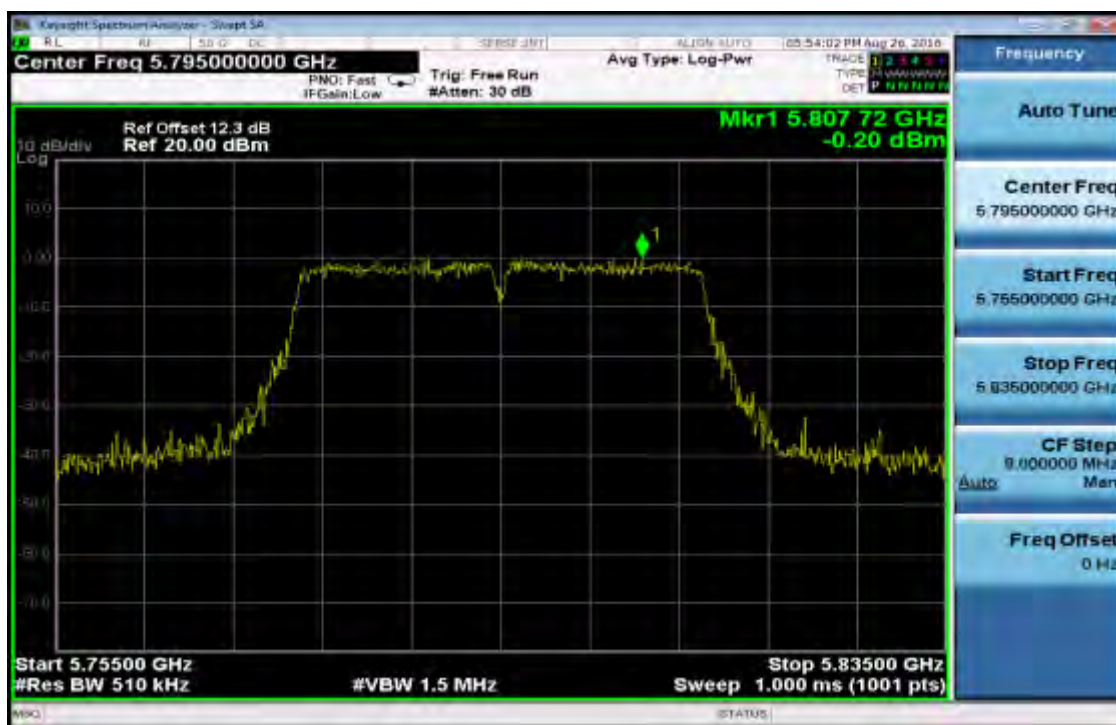
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## 802.11n HT40, 5725~5850 MHz

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



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



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## 802.11ac VHT80, 5150~5250 MHz

### Peak Power Spectral Density Data Plot (CH Mid 5210 MHz)



## 802.11ac VHT80, 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 MEASUREMENT

### 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 (dBμV/m) = 20 log Emission level (dBμV/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	ESU 40	100363	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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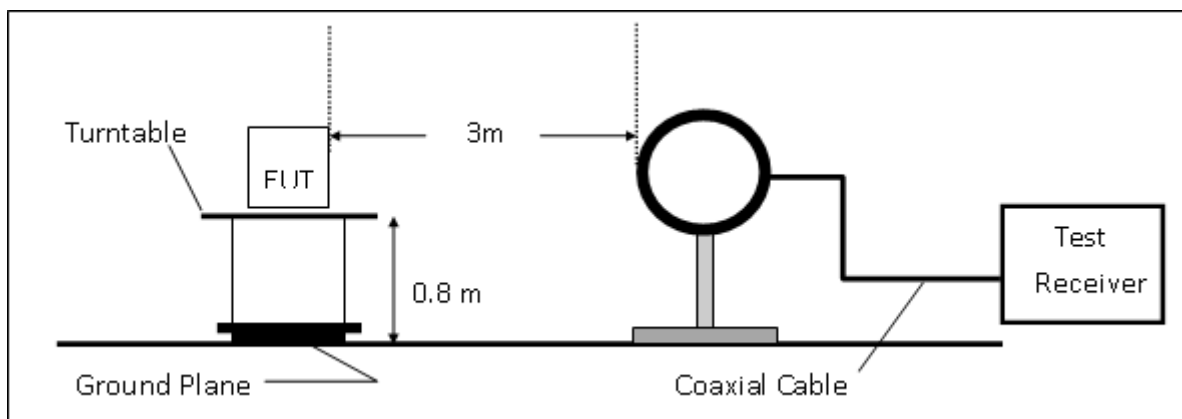
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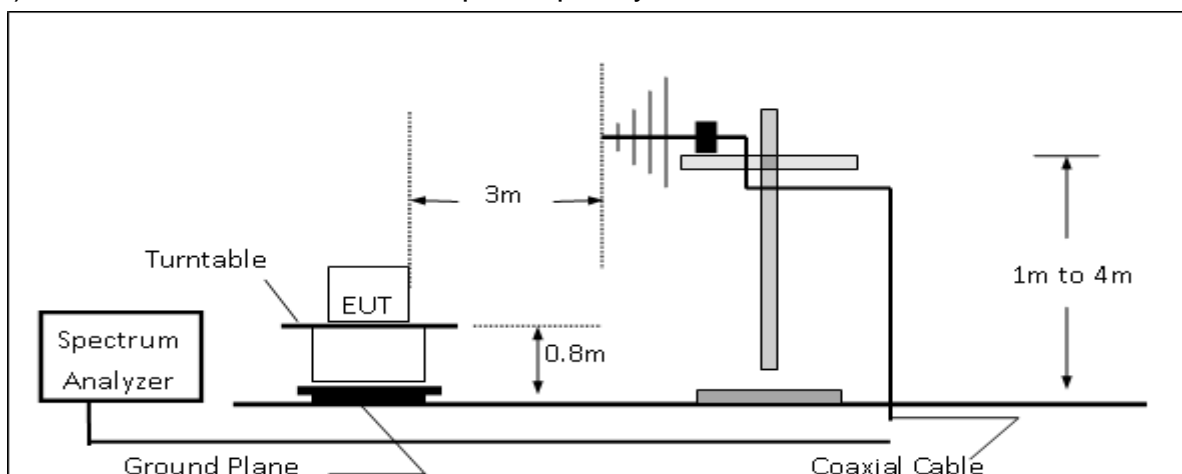
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## 11.3 Test SET-UP

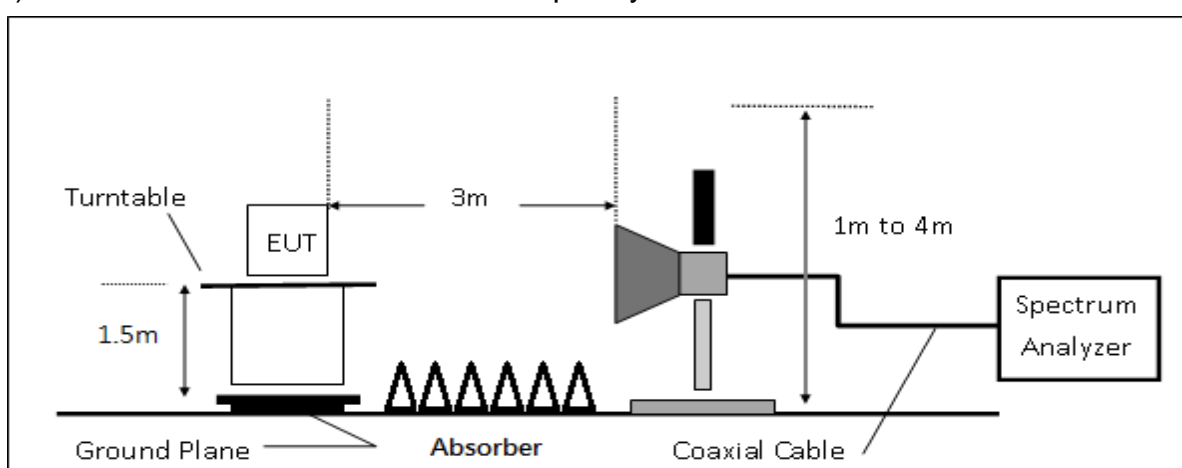
### (A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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## 11.4 Measurement Procedure

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 v01r01.
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	

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amplifier Gain(dB)

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**Note :**

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

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

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

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

**11.7 Measurement Result**

Refer to attach tabular data sheets.

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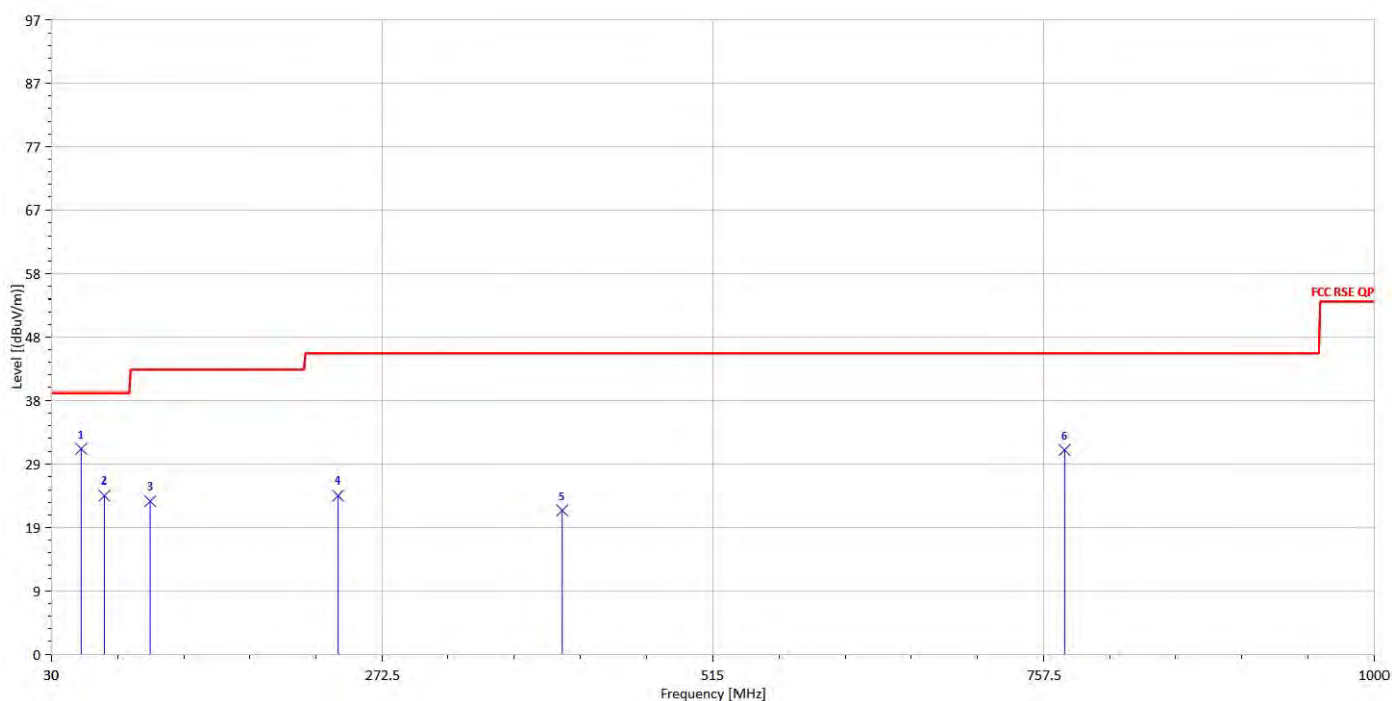
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# Radiated Spurious Emission Measurement Result

## Below 1GHz Worst-Case Data:

### 802.11a 5150~5250 MHz

Operation Mode :	802.11a	Test Date :	2016/8/26
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
52.31	S	Peak	51.59	-20.18	31.41	40	-8.59
68.80	S	Peak	46.27	-21.95	24.32	40	-15.68
102.75	S	Peak	40.86	-17.40	23.46	43.5	-20.04
240.49	S	Peak	39.53	-15.21	24.32	46	-21.68
404.42	S	Peak	31.72	-9.67	22.06	46	-23.94
773.02	S	Peak	35.83	-4.59	31.24	46	-14.76

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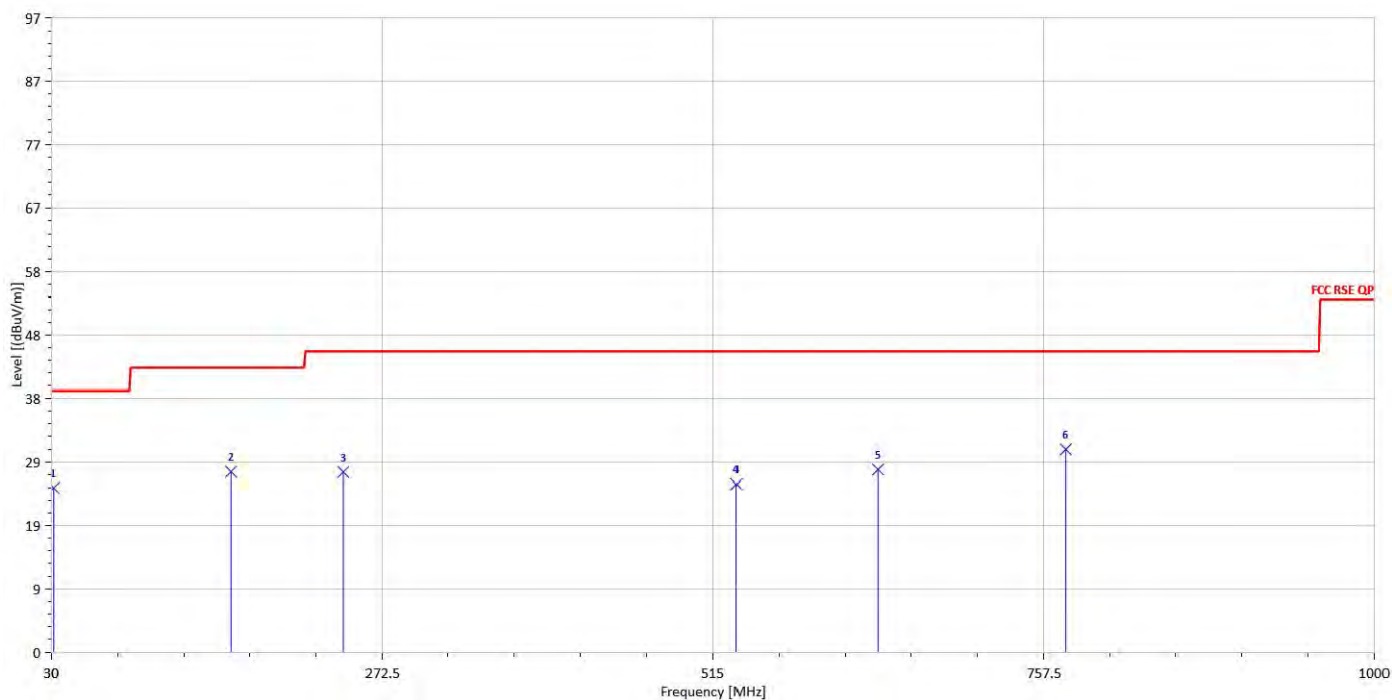
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Operation Mode : 802.11a      Test Date : 2016/8/26  
 Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	33.39	-8.22	25.16	40	-14.84
161.92	S	Peak	45.29	-17.71	27.59	43.5	-15.91
244.37	S	Peak	42.57	-15.04	27.53	46	-18.47
532.46	S	Peak	32.80	-7.09	25.71	46	-20.29
636.25	S	Peak	33.16	-5.25	27.92	46	-18.08
773.99	S	Peak	35.73	-4.72	31.02	46	-14.98

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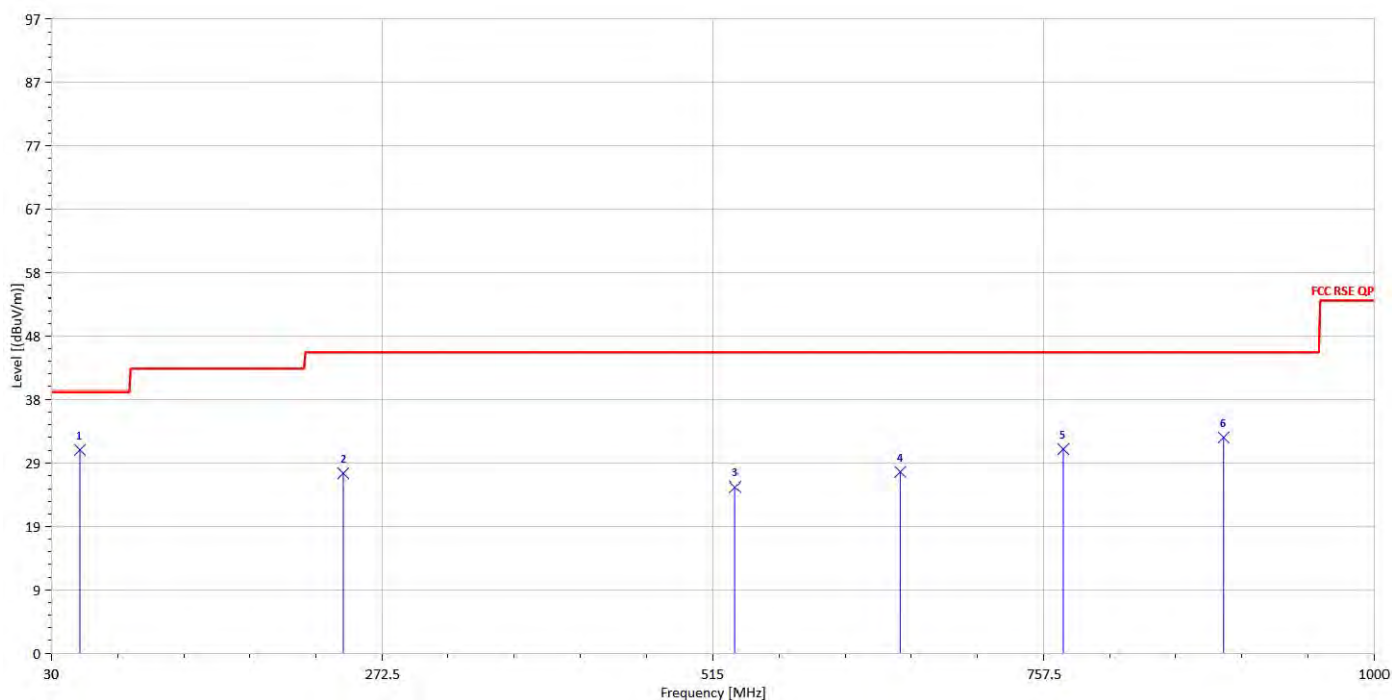
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## 802.11a 5250~5350 MHz

Operation Mode :	802.11a	Test Date :	2016/8/26
Fundamental Frequency :	5300 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	Peak	50.97	-19.88	31.09	40	-8.91
244.37	S	Peak	42.50	-15.04	27.46	46	-18.54
531.49	S	Peak	32.67	-7.22	25.45	46	-20.55
652.74	S	Peak	32.92	-5.24	27.68	46	-18.32
772.05	S	Peak	35.61	-4.41	31.21	46	-14.79
889.42	S	Peak	35.82	-2.81	33.00	46	-13.00

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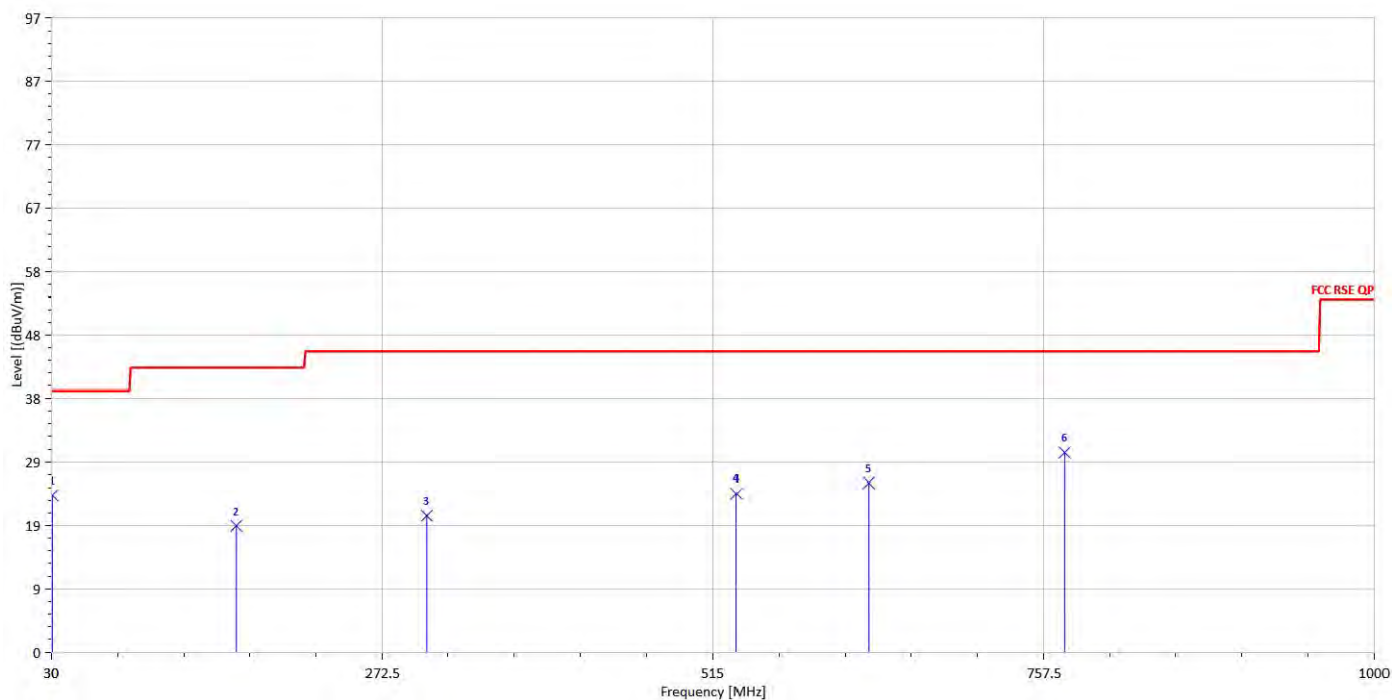
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Operation Mode : 802.11a      Test Date : 2016/8/26  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Ashton  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.97	S	Peak	31.78	-7.70	24.07	40	-15.93
165.80	S	Peak	37.28	-17.92	19.36	43.5	-24.14
305.48	S	Peak	33.77	-12.86	20.91	46	-25.09
532.46	S	Peak	31.38	-7.09	24.29	46	-21.71
629.46	S	Peak	31.99	-6.08	25.91	46	-20.09
773.02	S	Peak	35.12	-4.59	30.53	46	-15.47

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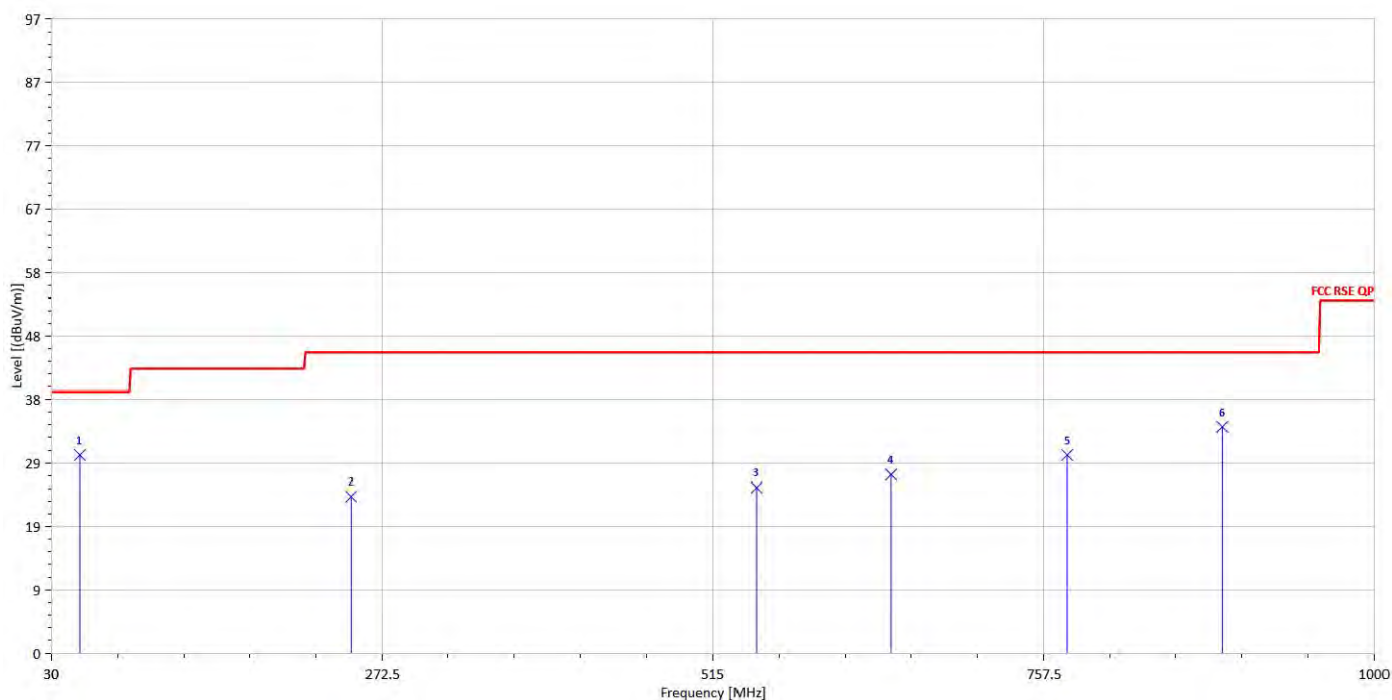
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## 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/8/26
Fundamental Frequency :	5580 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.34	S	Peak	50.18	-19.88	30.30	40	-9.70
250.19	S	Peak	38.57	-14.58	23.99	46	-22.01
547.01	S	Peak	32.64	-7.27	25.37	46	-20.63
645.95	S	Peak	32.08	-4.79	27.29	46	-18.71
774.96	S	Peak	35.05	-4.75	30.30	46	-15.70
888.45	S	Peak	37.47	-2.84	34.64	46	-11.36

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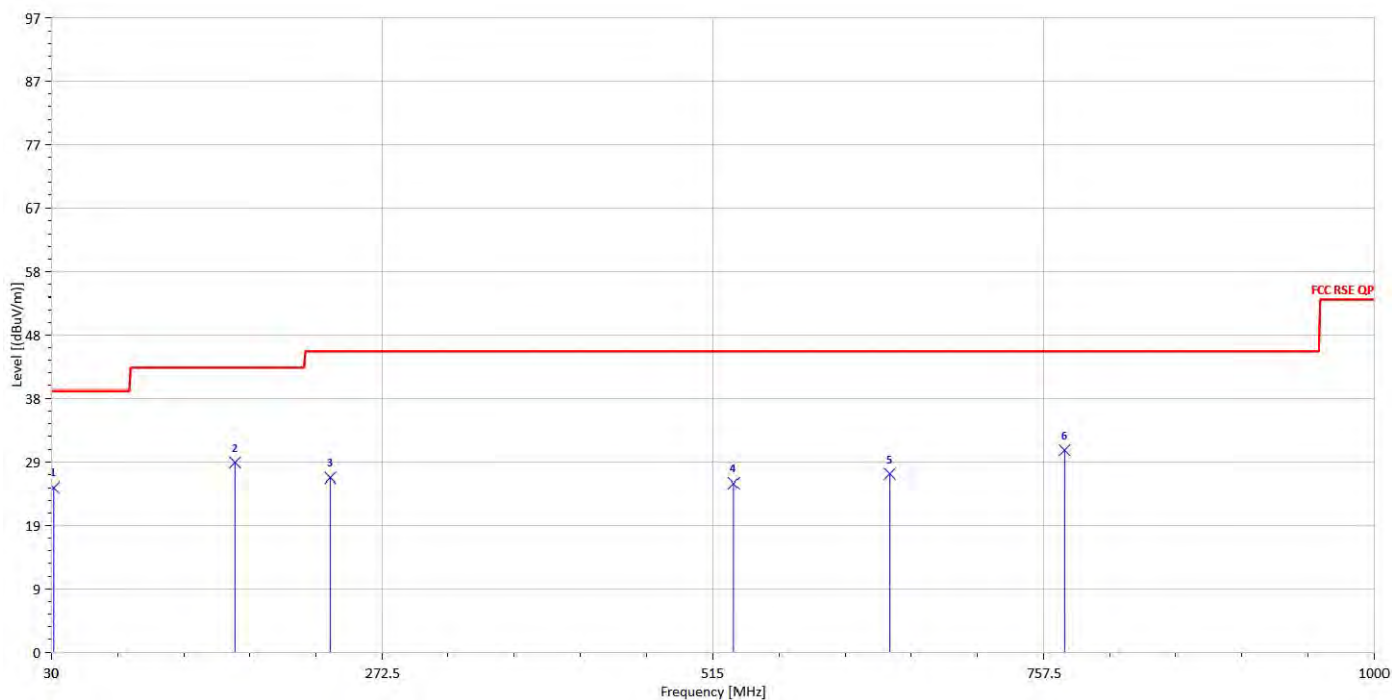
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Operation Mode : 802.11a      Test Date : 2016/8/26  
Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Mid      Test Engineer : Ashton  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
31.94	S	Peak	33.43	-8.22	25.21	40	-14.79
164.83	S	Peak	46.78	-17.78	29.00	43.5	-14.50
234.67	S	Peak	42.54	-15.87	26.67	46	-19.33
530.52	S	Peak	33.05	-7.20	25.85	46	-20.15
644.98	S	Peak	32.11	-4.88	27.23	46	-18.77
773.02	S	Peak	35.48	-4.59	30.89	46	-15.11

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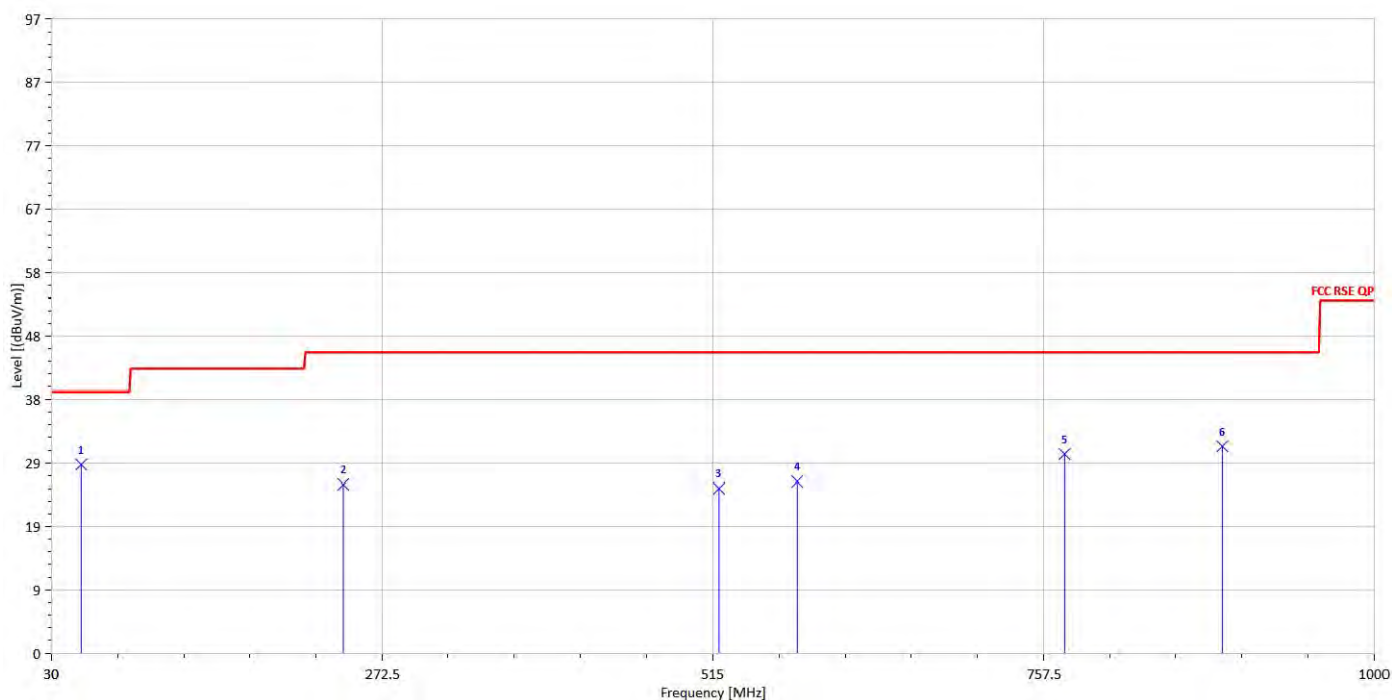
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## 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/8/26
Fundamental Frequency :	5785 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
52.31	S	Peak	49.00	-20.18	28.83	40	-11.17
244.37	S	Peak	40.87	-15.04	25.83	46	-20.17
519.85	S	Peak	32.57	-7.33	25.23	46	-20.77
577.08	S	Peak	32.57	-6.30	26.27	46	-19.73
773.02	S	Peak	35.03	-4.59	30.44	46	-15.56
888.45	S	Peak	34.47	-2.84	31.64	46	-14.36

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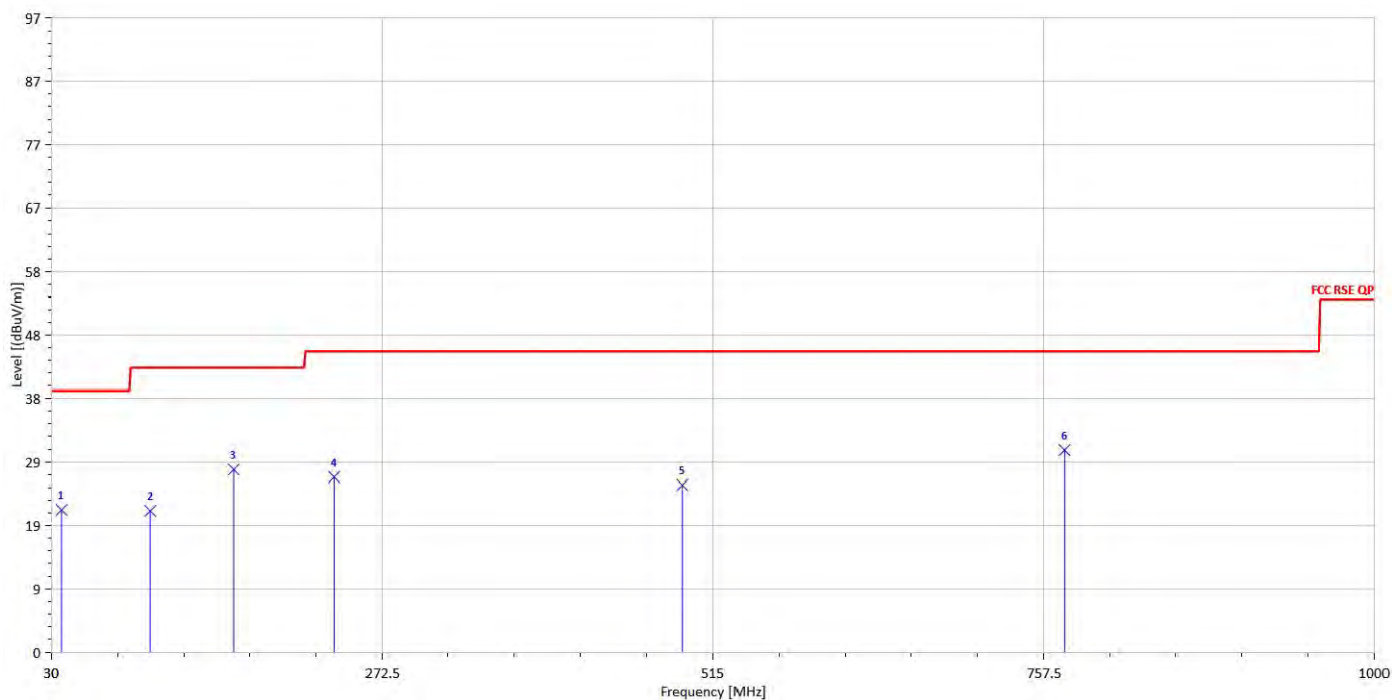
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Operation Mode : 802.11a Test Date : 2016/8/26  
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Ashton  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
37.76	S	Peak	33.30	-11.49	21.81	40	-18.19
102.75	S	Peak	39.04	-17.40	21.64	43.5	-21.86
163.86	S	Peak	45.52	-17.61	27.91	43.5	-15.59
237.58	S	Peak	42.32	-15.53	26.79	46	-19.21
492.69	S	Peak	33.30	-7.72	25.58	46	-20.42
773.02	S	Peak	35.50	-4.59	30.91	46	-15.09

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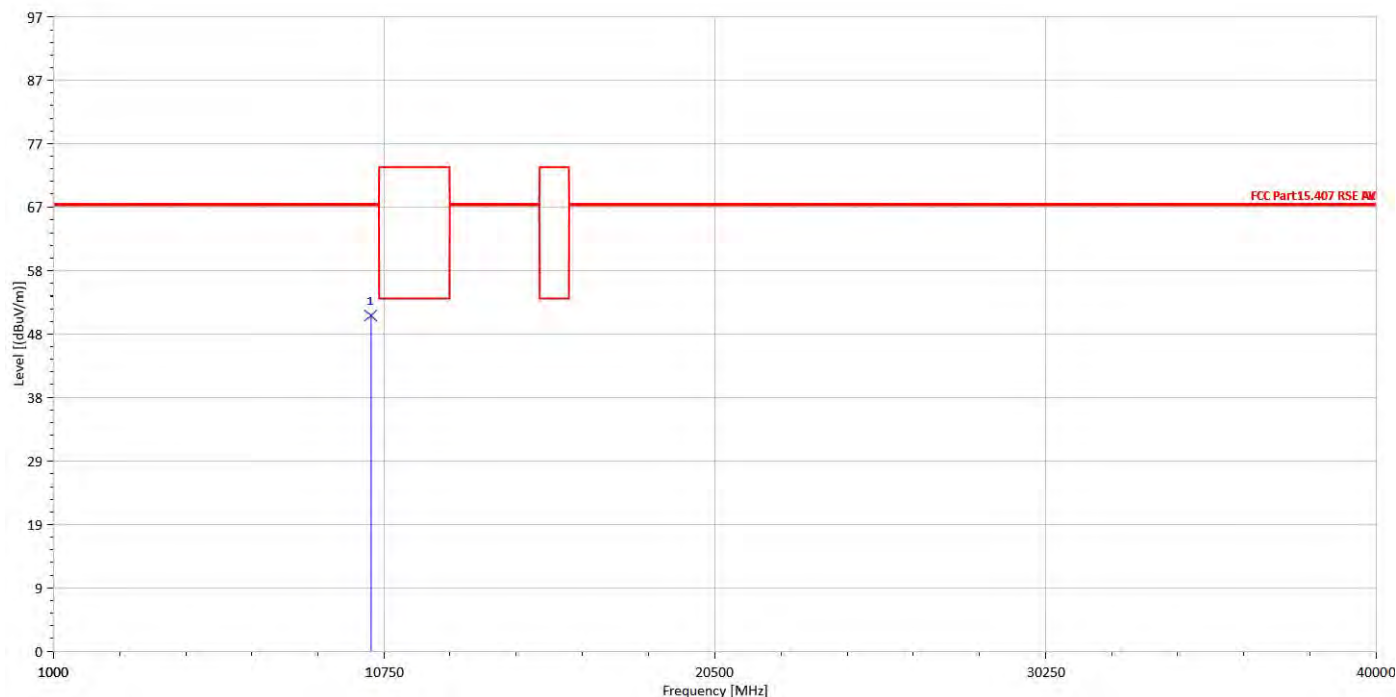
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## Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	31.20	20.18	51.37	68.3	-16.93

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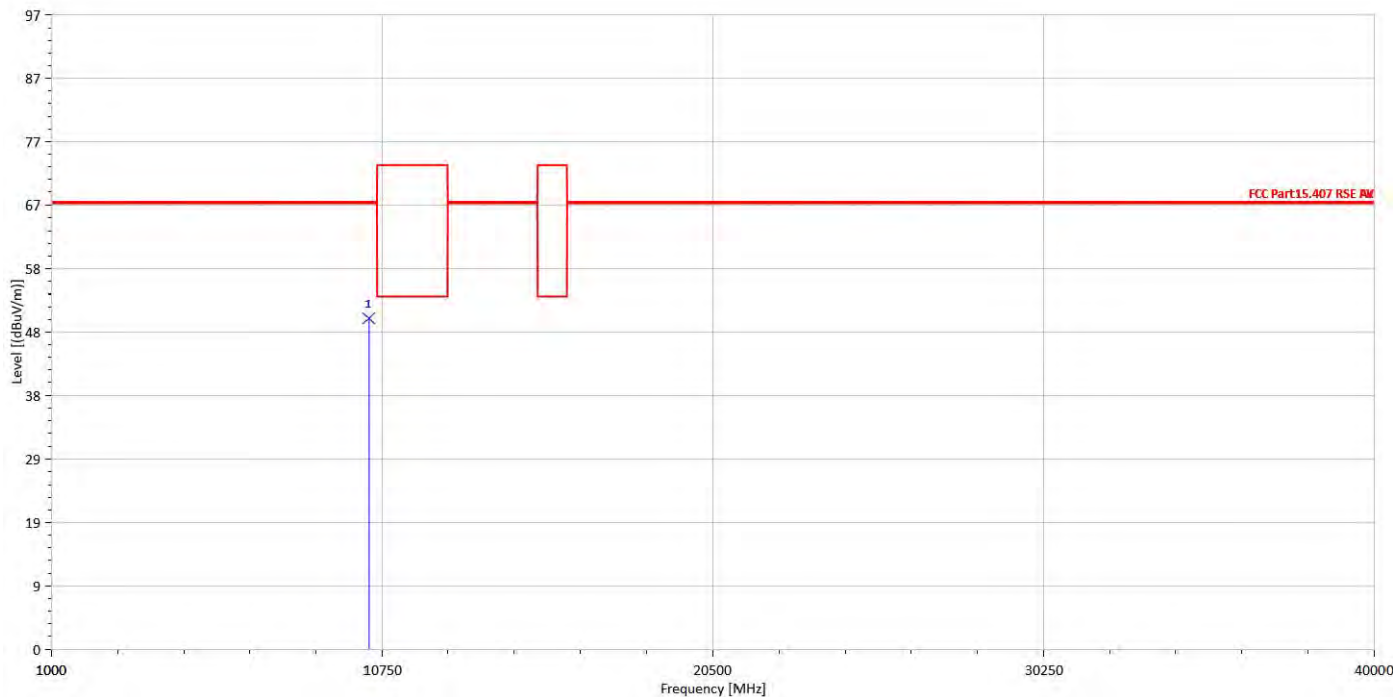
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5180 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10360.00	H	Peak	30.45	20.18	50.63	68.3	-17.67

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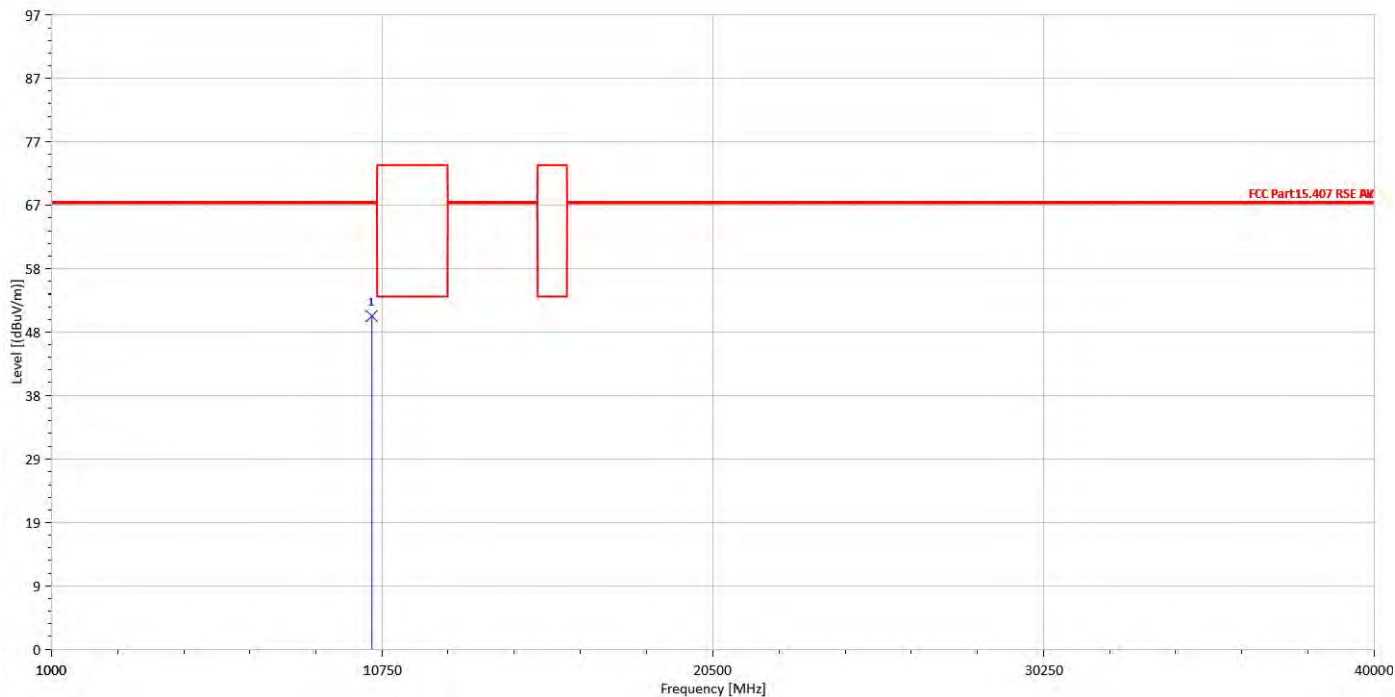
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5220 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Mid      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	30.70	20.29	50.99	68.3	-17.31

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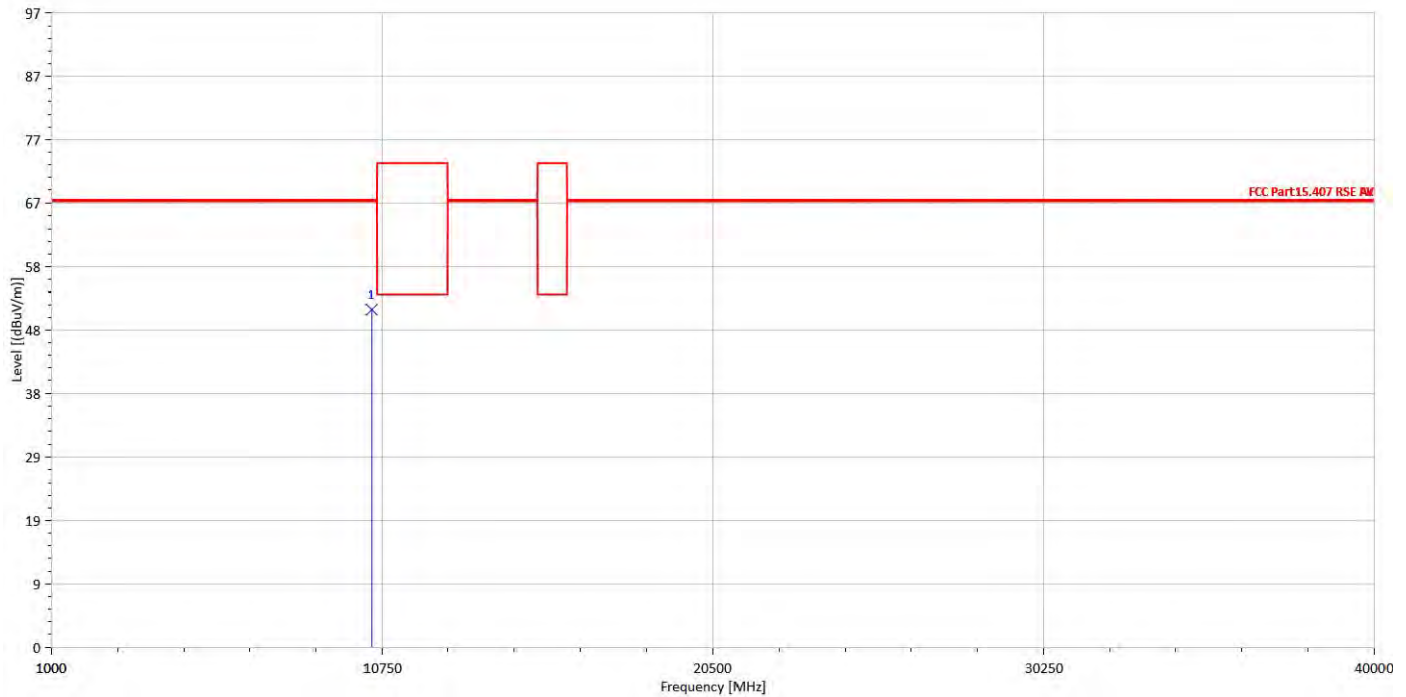
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Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10440.00	H	Peak	31.38	20.29	51.67	68.3	-16.63

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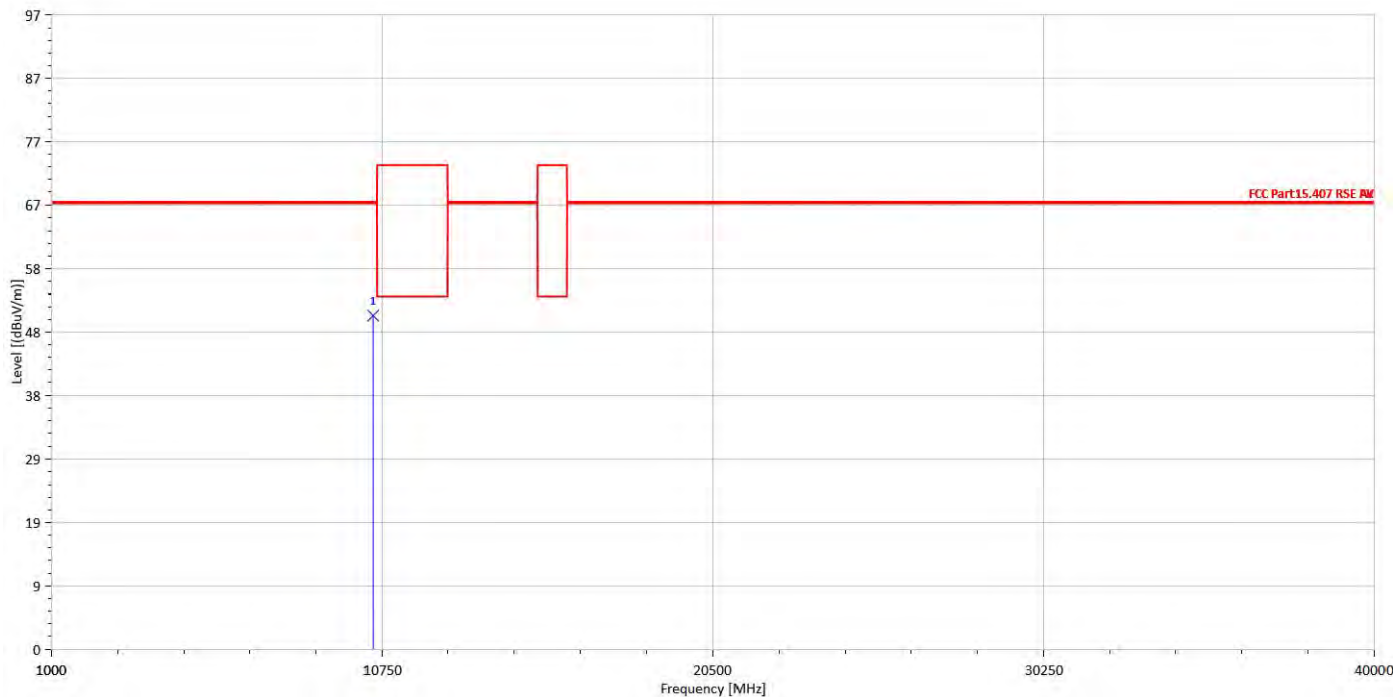
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5240 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	30.37	20.68	51.05	68.3	-17.25

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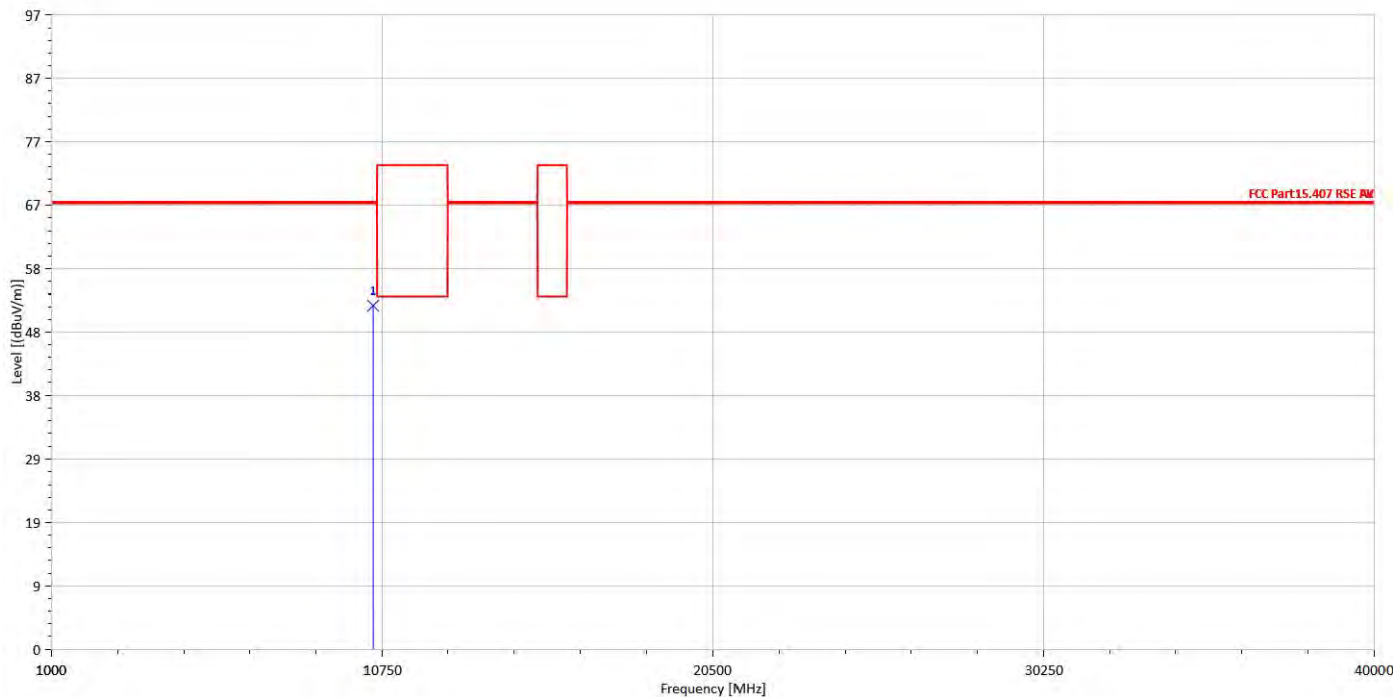
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Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5240 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10480.00	H	Peak	31.92	20.68	52.60	68.3	-15.70

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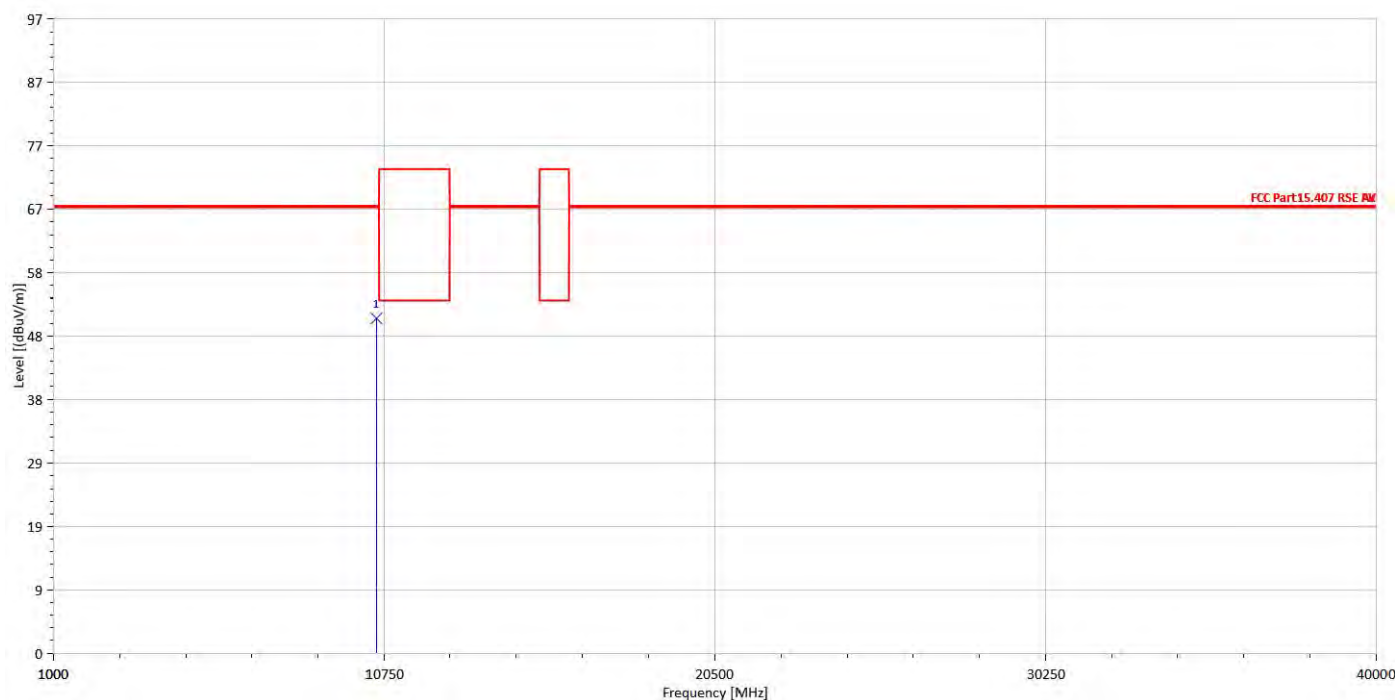
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# Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	31.16	20.10	51.26	68.3	-17.04

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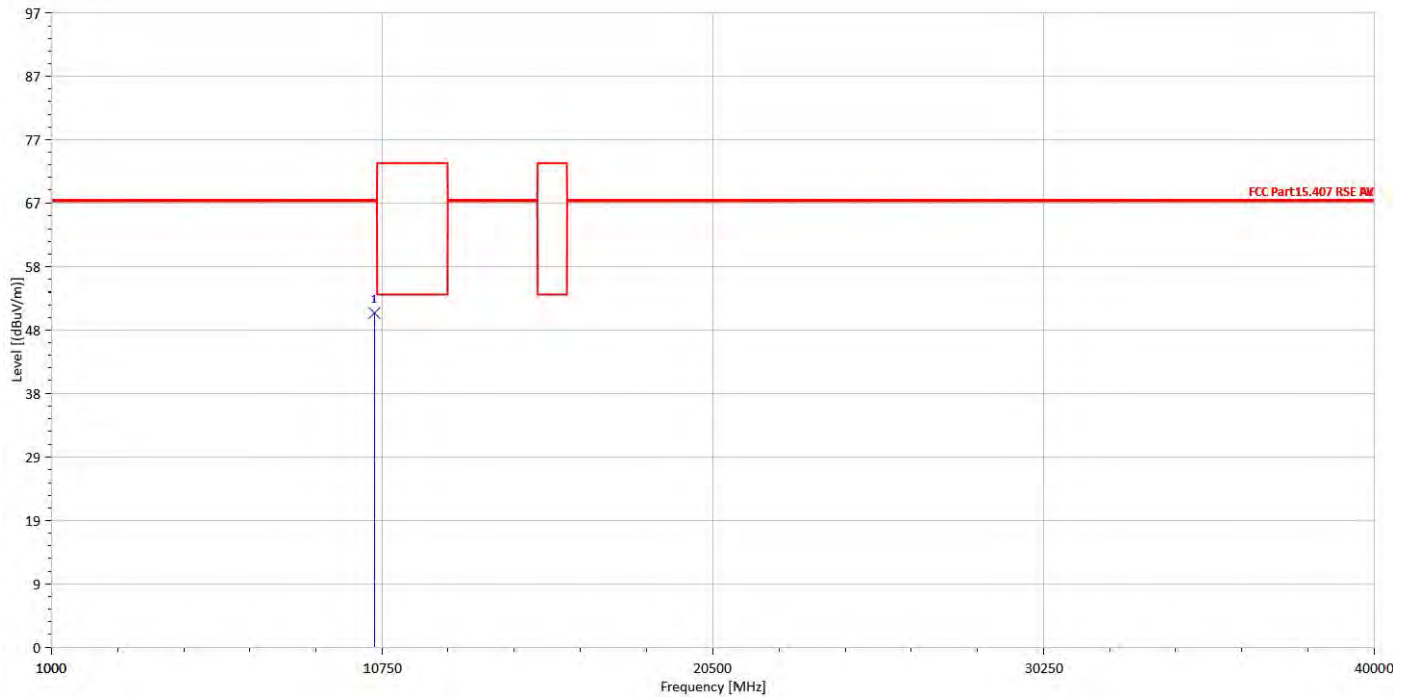
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5260 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10520.00	H	Peak	31.05	20.10	51.15	68.3	-17.15

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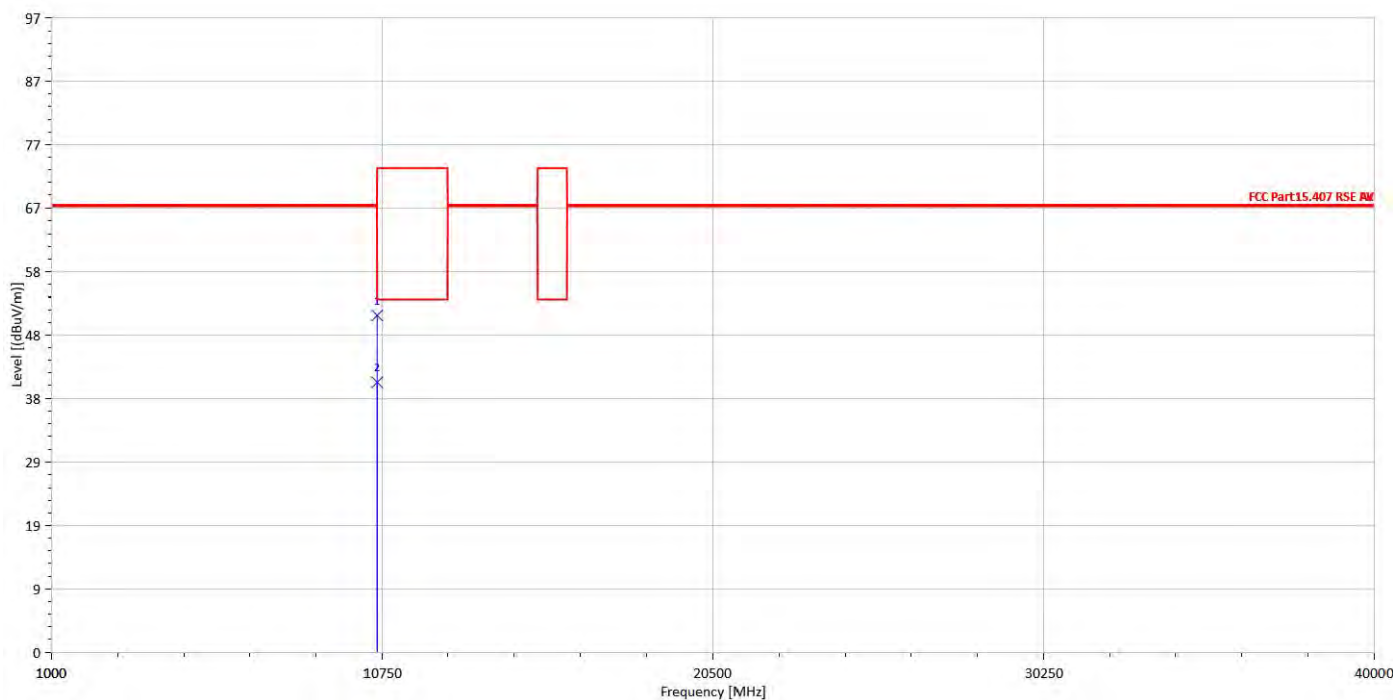
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Operation Mode : 802.11a      Test Date : 2016/8/25  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
10600.00	H	Peak	31.39	20.17	51.55	74	-22.45
10600.00	H	Average	21.06	20.17	41.23	54	-12.77

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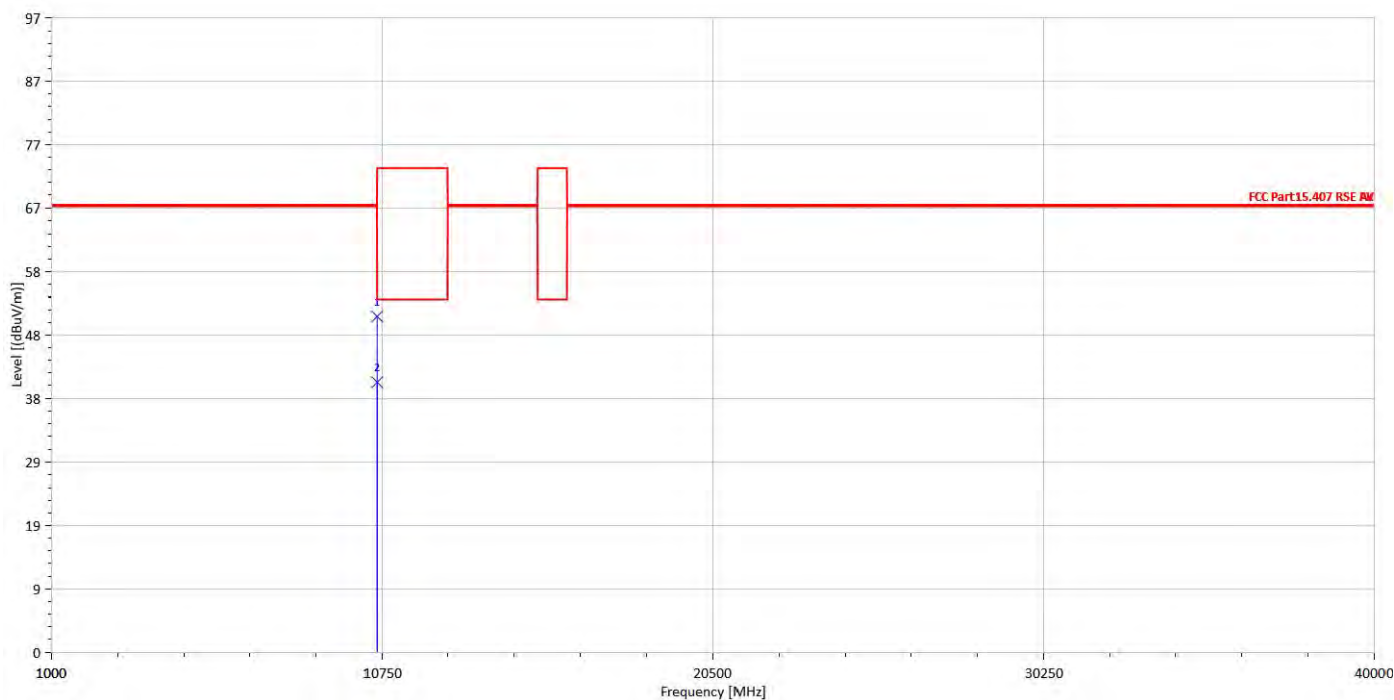
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Operation Mode : 802.11a      Test Date : 2016/8/25  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.00	H	Peak	31.23	20.17	51.40	74	-22.60
10600.00	H	Average	21.08	20.17	41.25	54	-12.75

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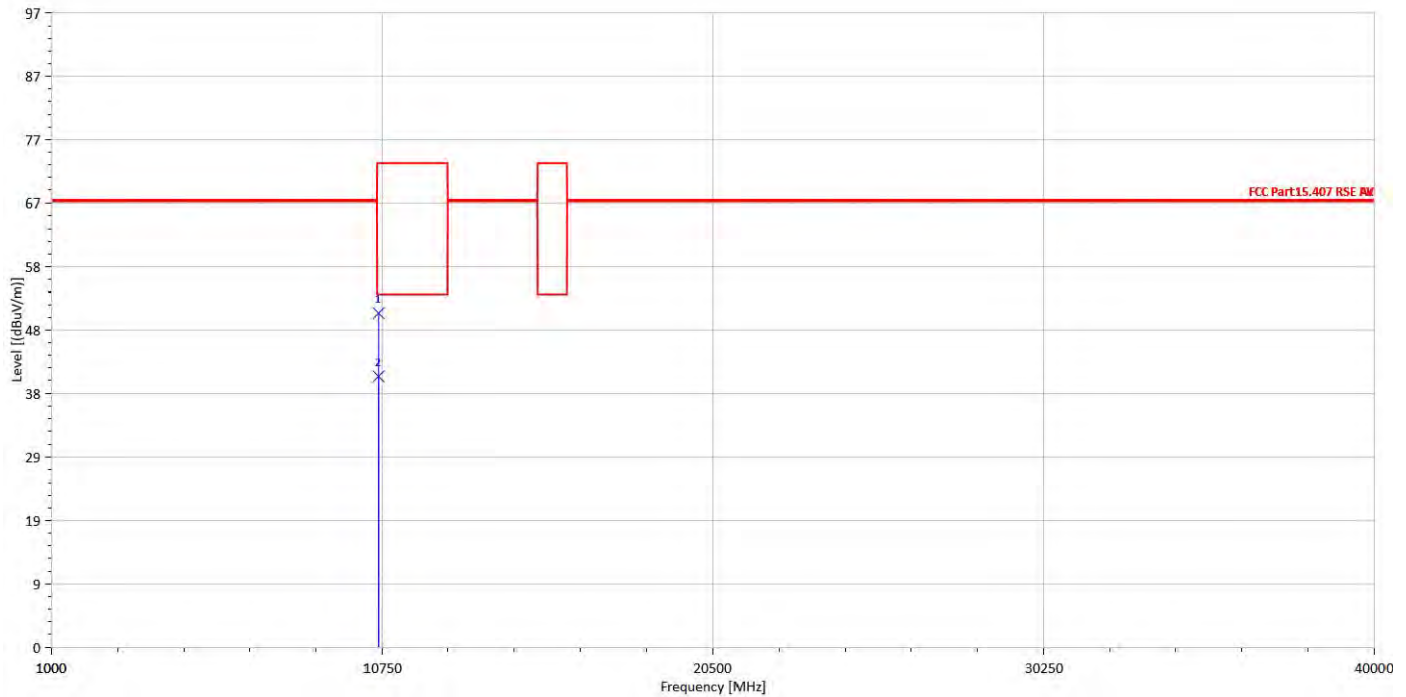
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Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
10640.00	H	Peak	30.78	20.34	51.12	74	-22.88
10640.00	H	Average	21.02	20.34	41.36	54	-12.64

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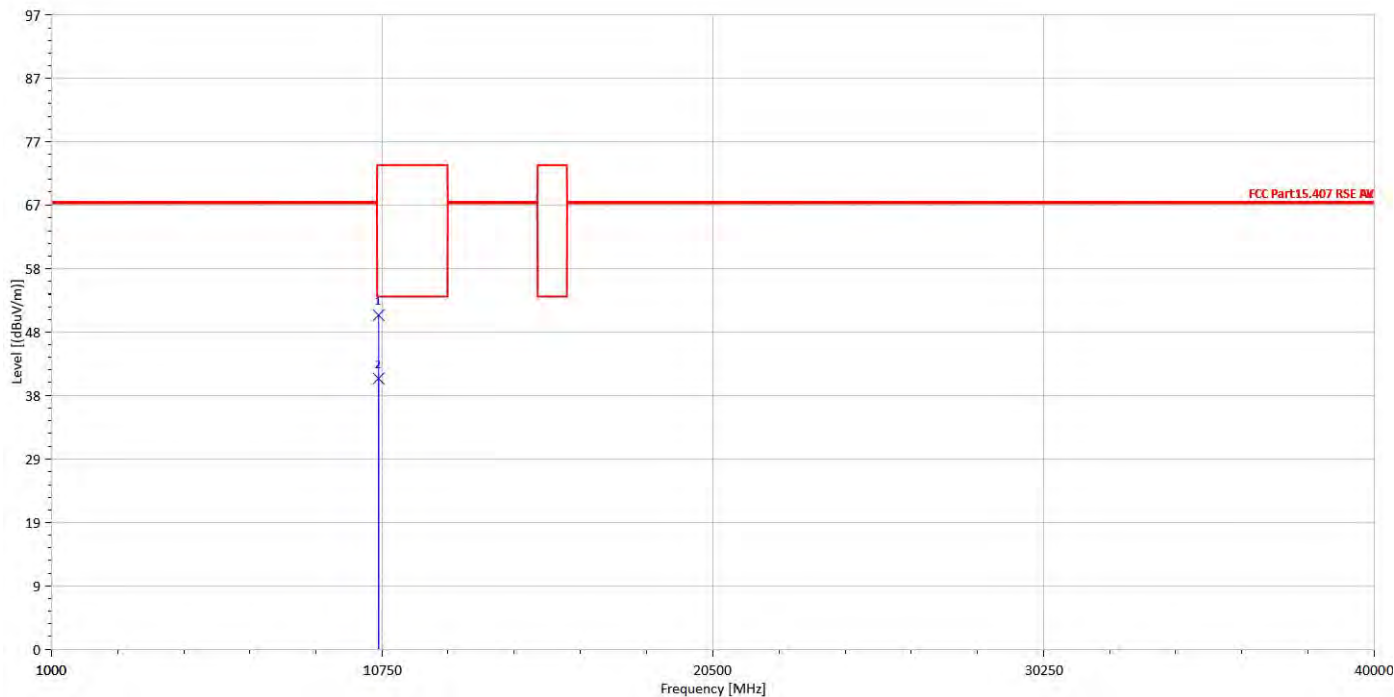
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Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBuV		dBuV/m	dBuV/m	
10640.00	H	Peak	30.79	20.34	51.13	74	-22.87
10640.00	H	Average	21.01	20.34	41.35	54	-12.65

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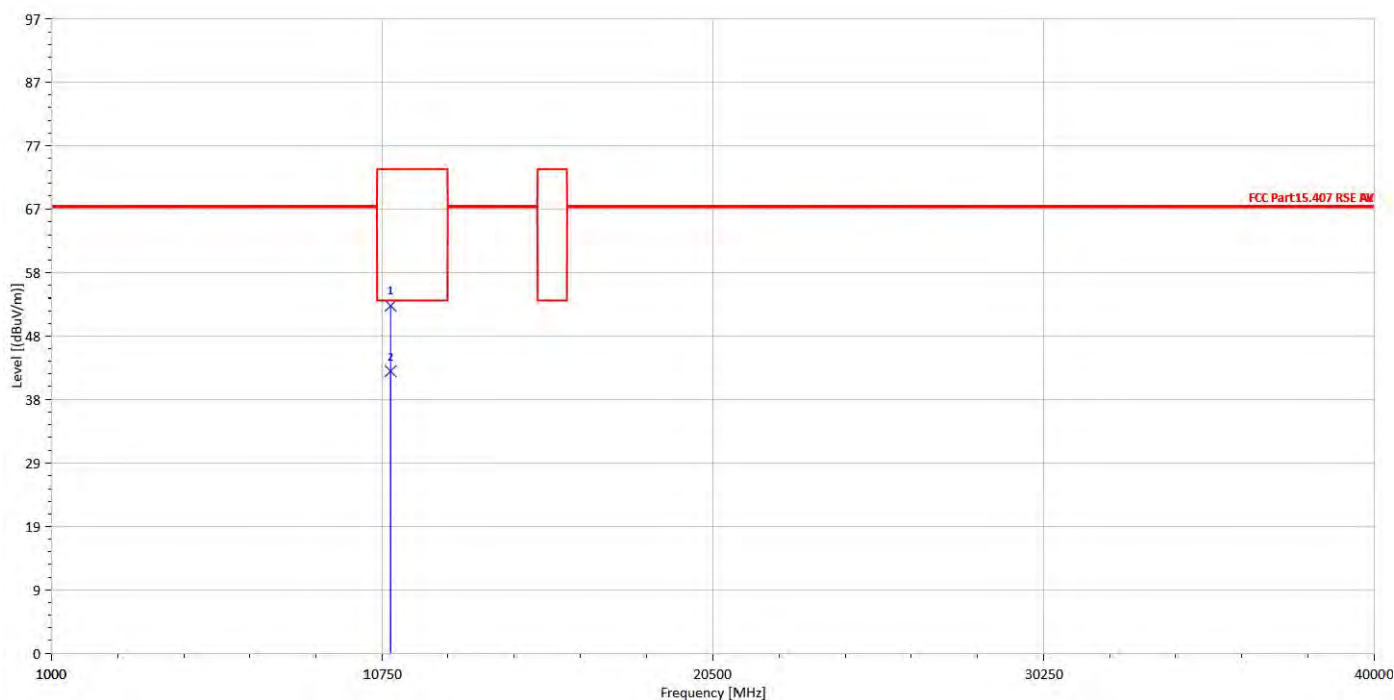
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## Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11000.00	H	Peak	31.09	22.11	53.20	74	-20.80
11000.00	H	Average	20.99	22.11	43.10	54	-10.90

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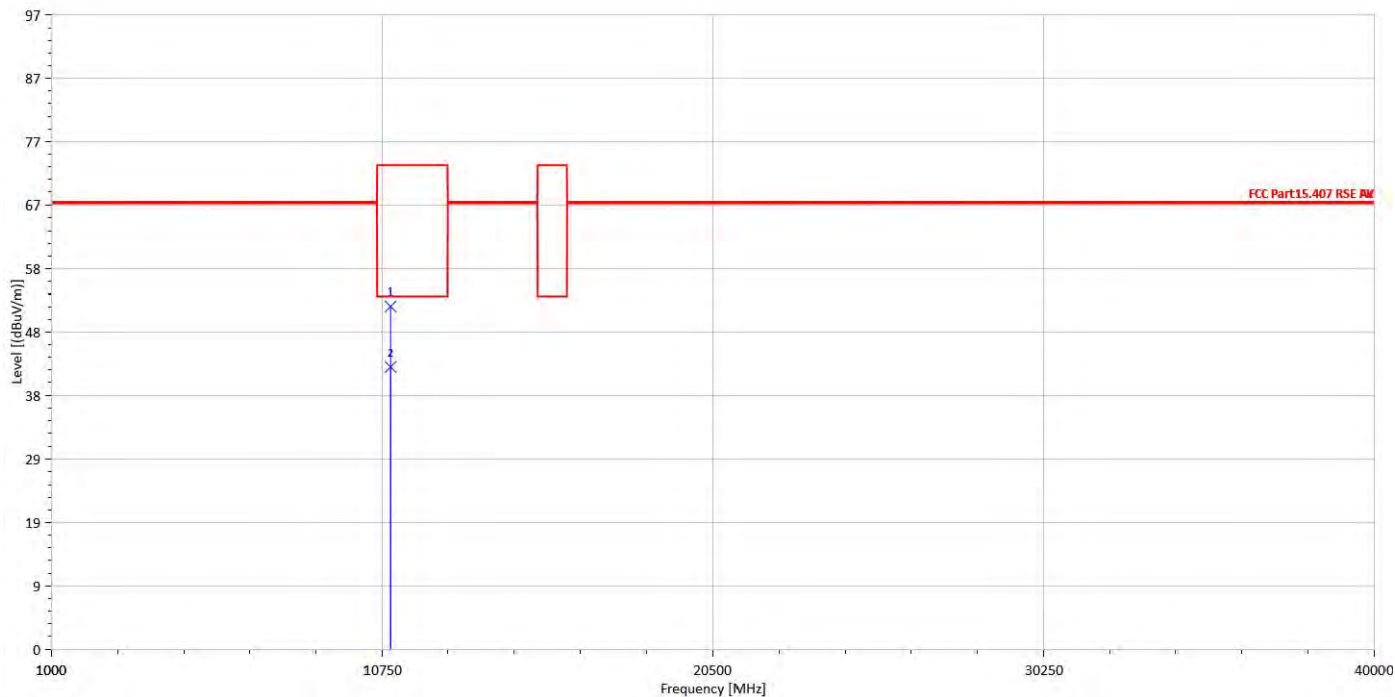
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11000.00	H	Peak	30.35	22.11	52.46	74	-21.54
11000.00	H	Average	21.02	22.11	43.13	54	-10.87

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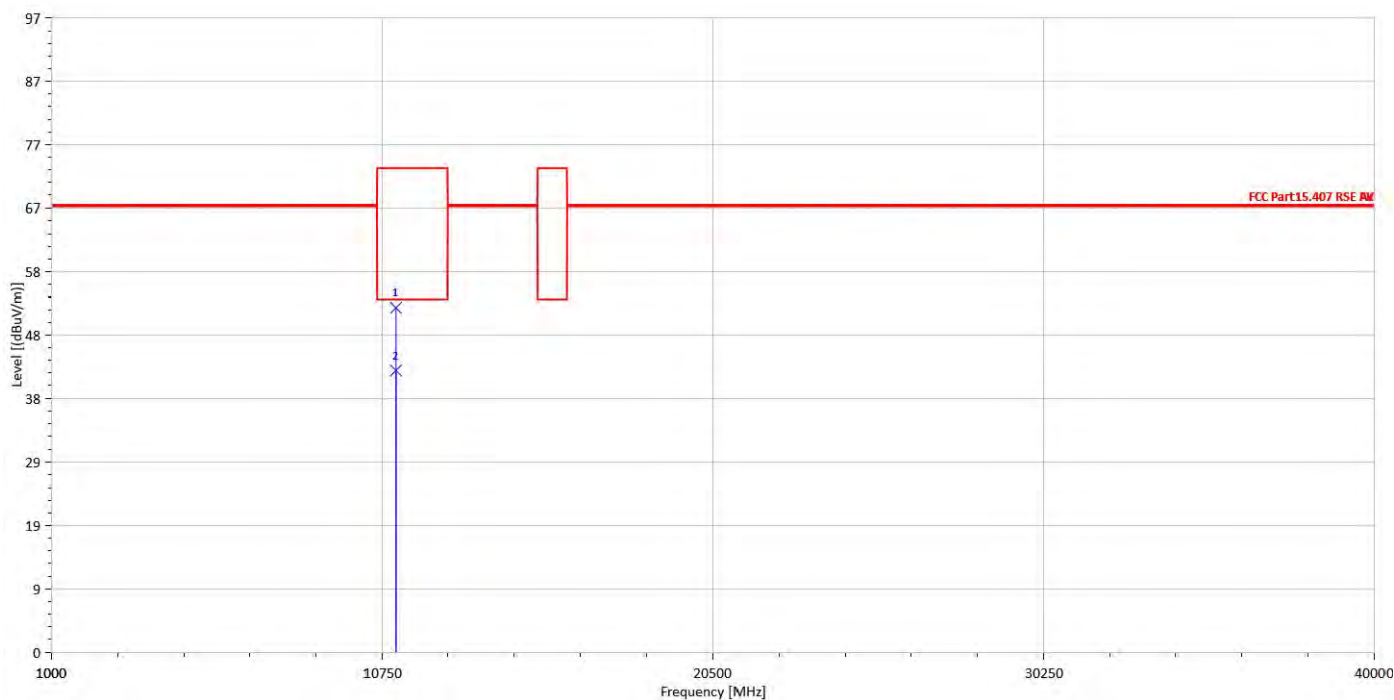
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Operation Mode : 802.11a Test Date : 2016/8/25  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	30.67	22.04	52.71	74	-21.29
11160.00	H	Average	21.02	22.04	43.06	54	-10.94

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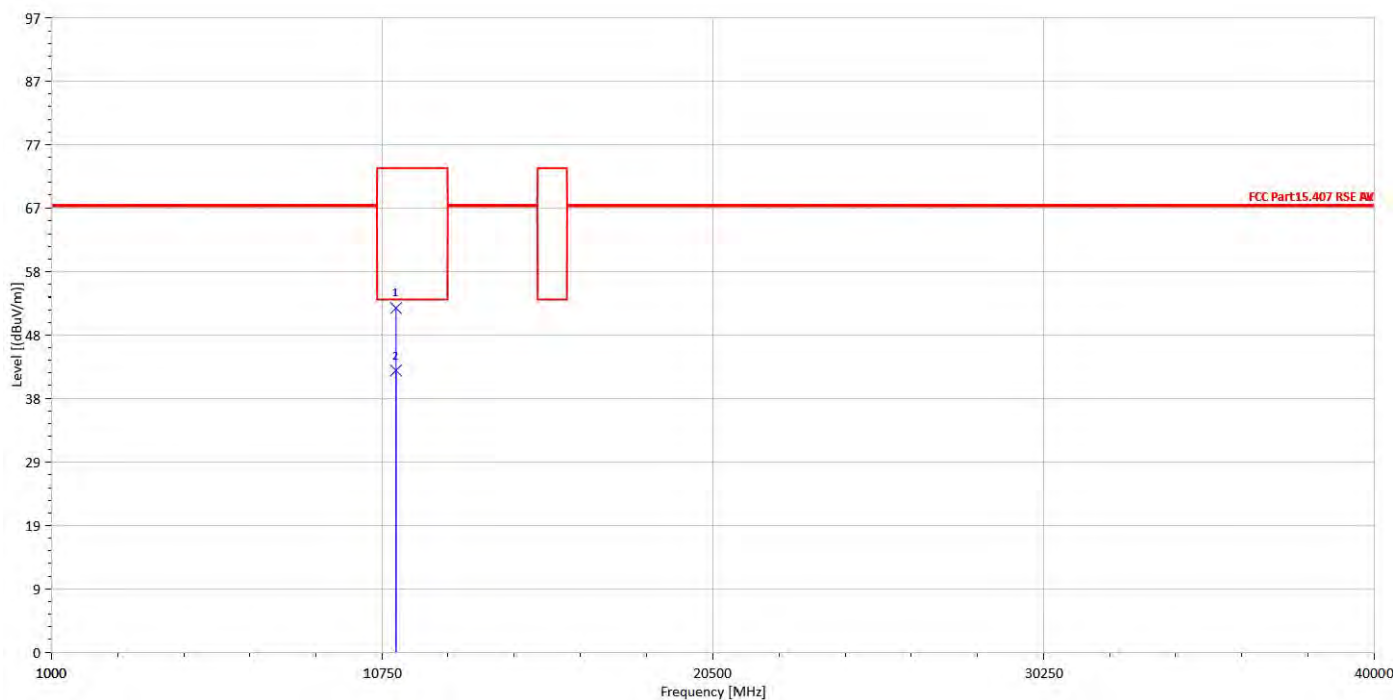
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Operation Mode : 802.11a Test Date : 2016/8/25  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	30.64	22.04	52.68	74	-21.32
11160.00	H	Average	21.02	22.04	43.06	54	-10.94

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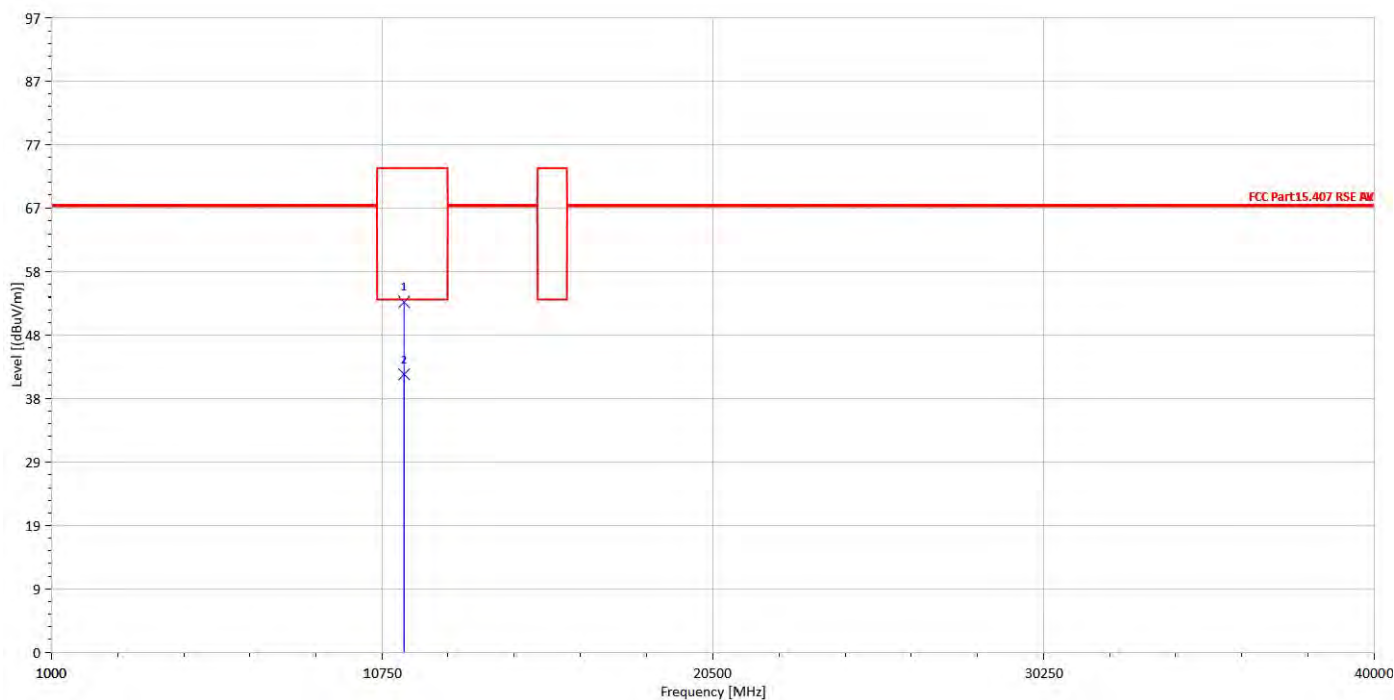
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Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11400.00	H	Peak	32.38	21.22	53.60	74	-20.40
11400.00	H	Average	21.25	21.22	42.47	54	-11.53

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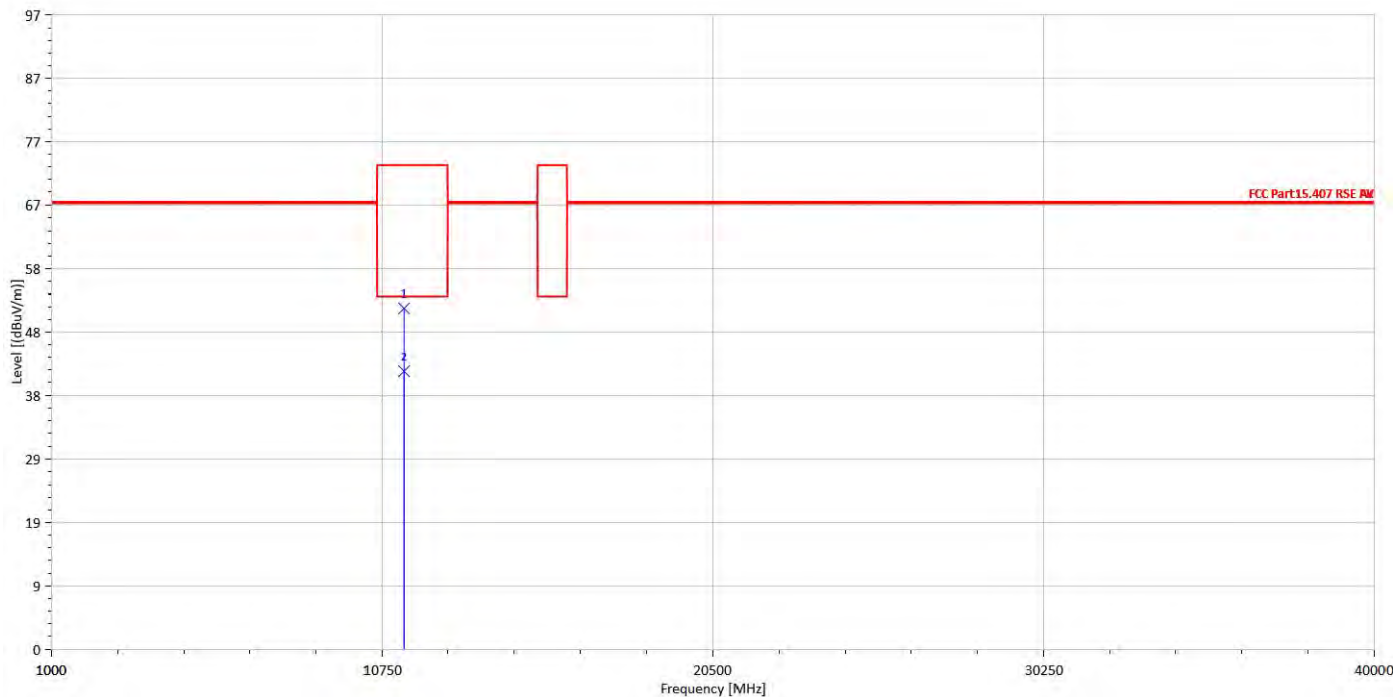
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11400.00	H	Peak	30.95	21.22	52.16	74	-21.84
11400.00	H	Average	21.26	21.22	42.48	54	-11.52

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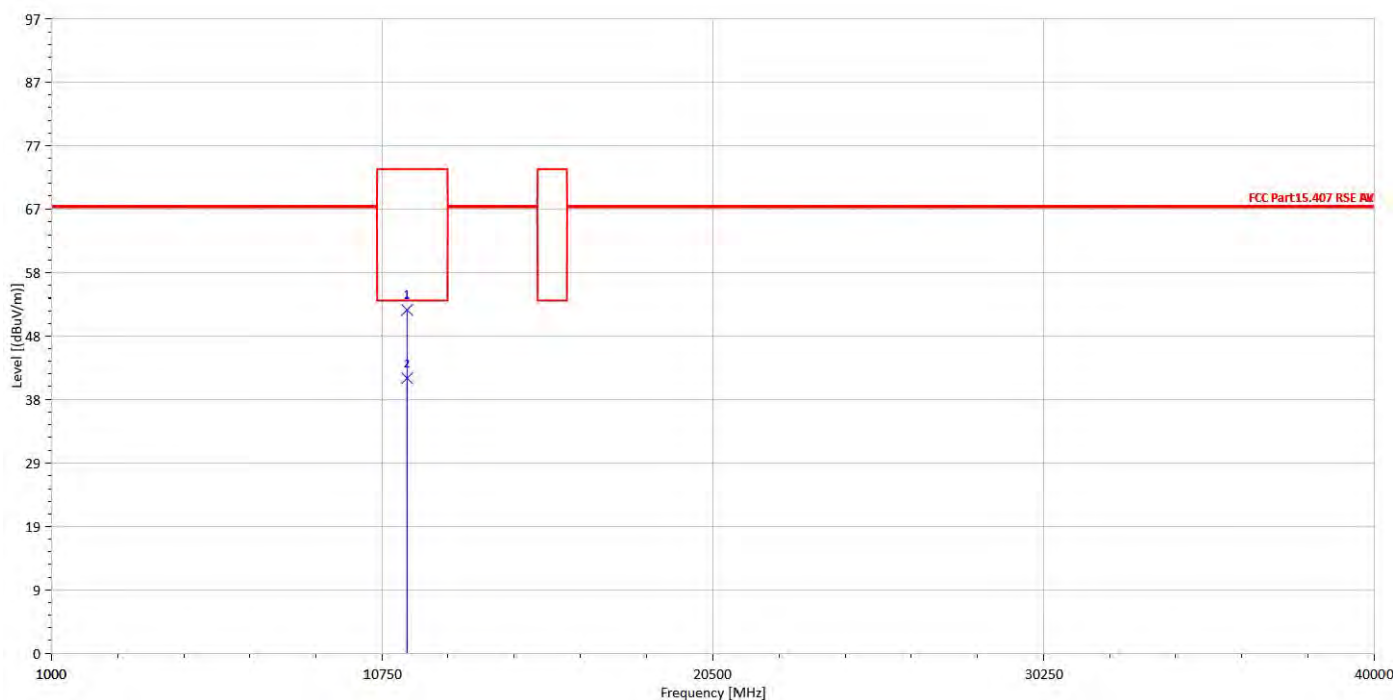
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## Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode :	802.11a	Test Date :	2016/8/25
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11490.00	H	Peak	31.85	20.70	52.55	74	-21.45
11490.00	H	Average	21.30	20.70	42.00	54	-12.00

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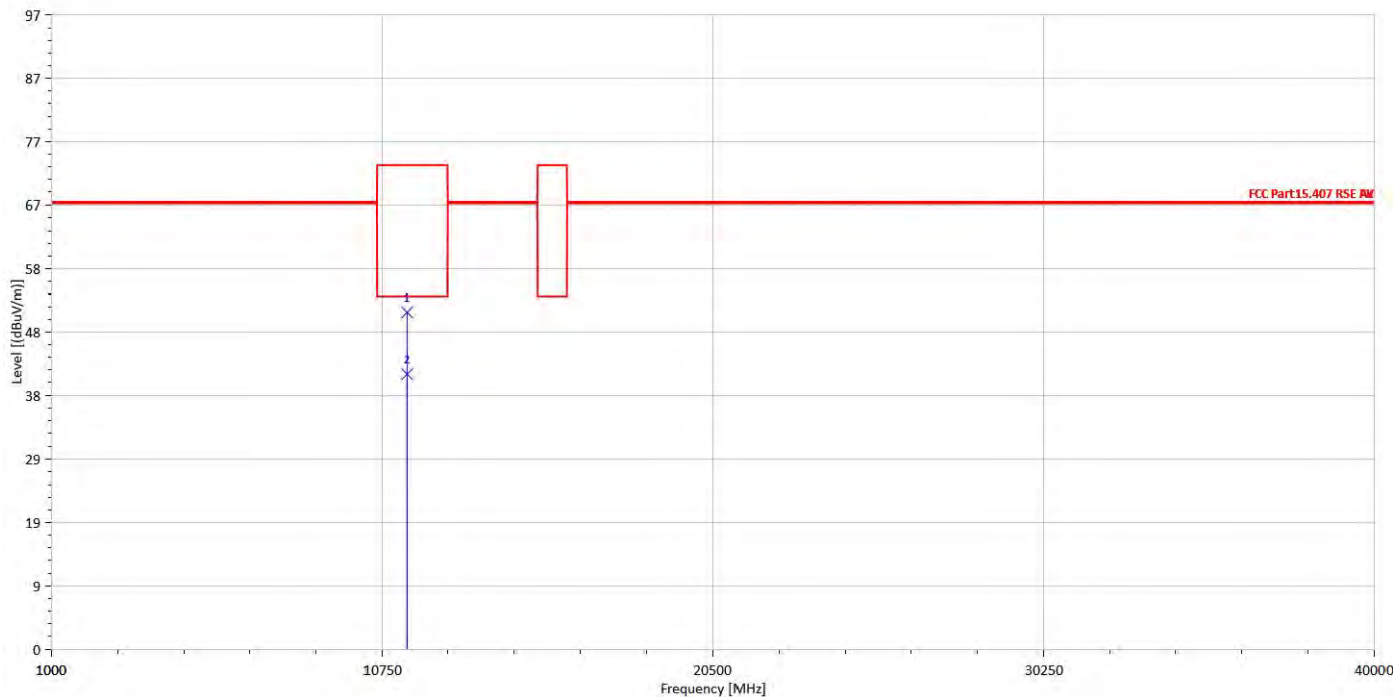
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Low      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11490.00	H	Peak	30.85	20.70	51.55	74	-22.45
11490.00	H	Average	21.30	20.70	42.00	54	-12.00

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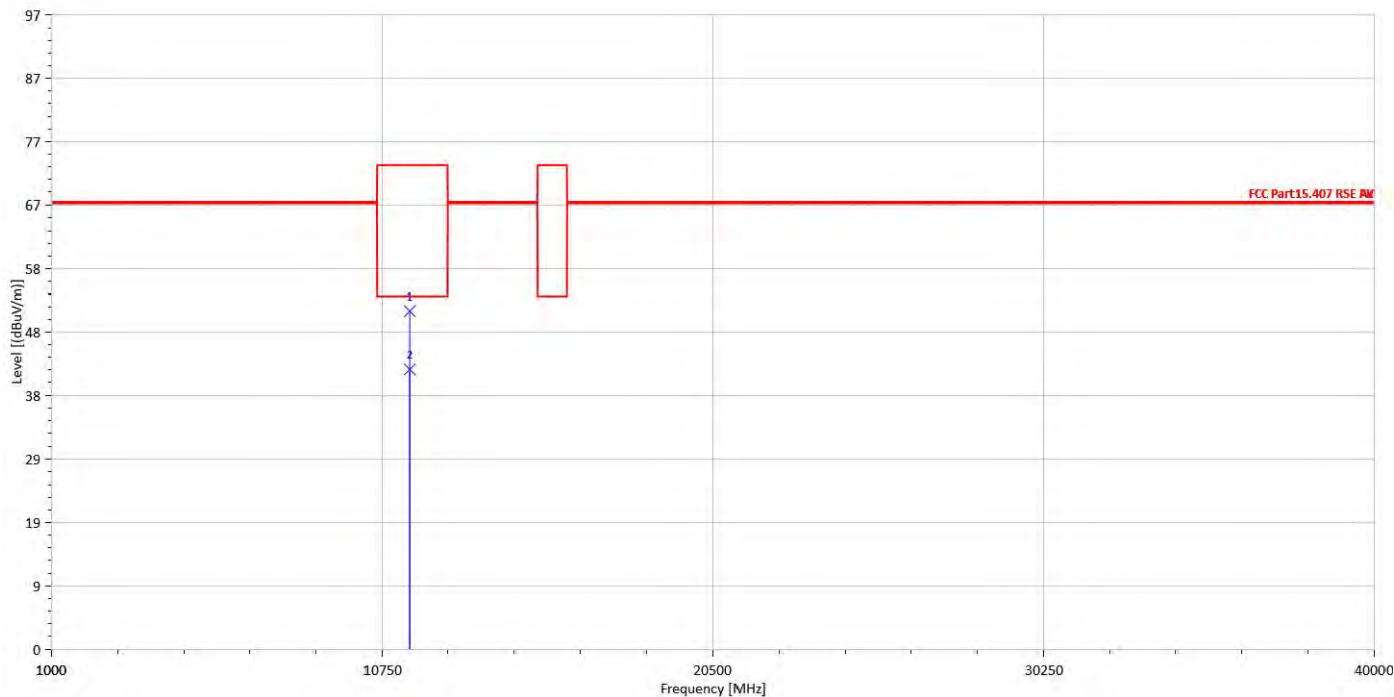
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
Operation Band : Tx CH Mid      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11570.00	H	Peak	30.31	21.44	51.75	74	-22.25
11570.00	H	Average	21.30	21.44	42.74	54	-11.26

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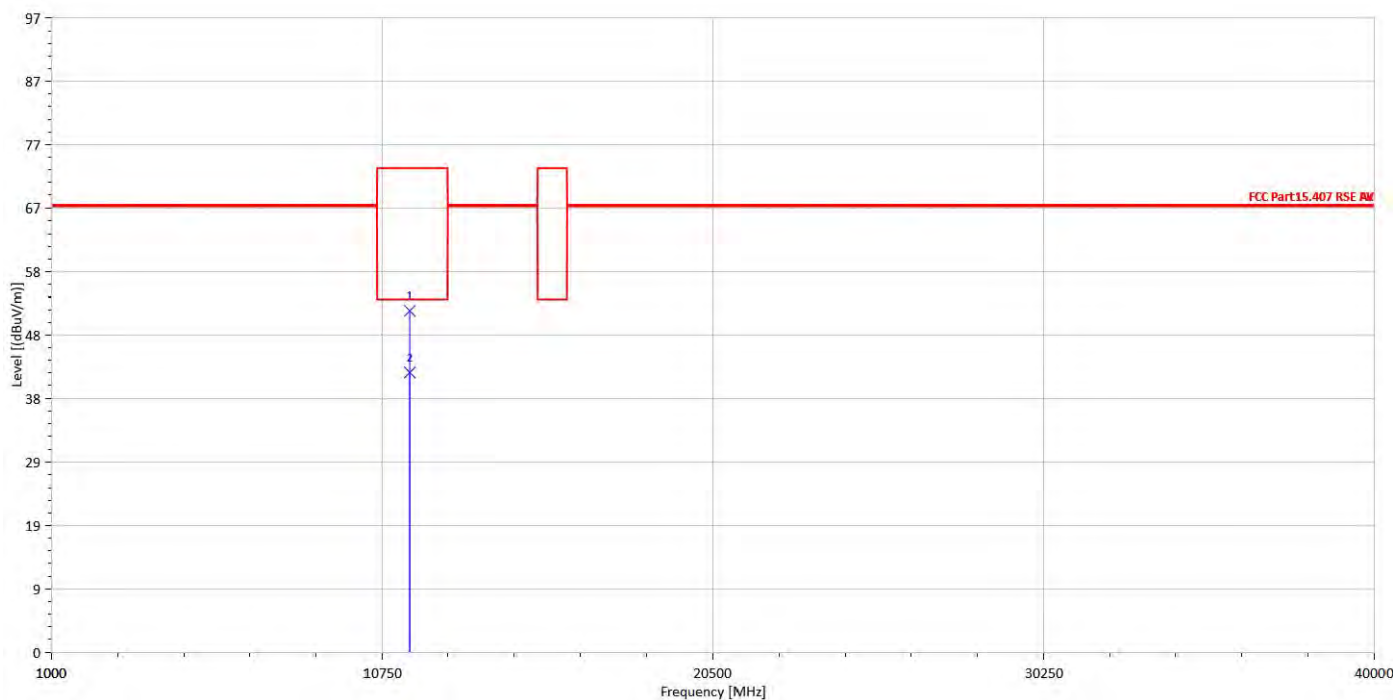
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Operation Mode : 802.11a      Test Date : 2016/8/25  
 Fundamental Frequency : 5785 MHz      Temp. / Humi. : 22.7 deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11570.00	H	Peak	30.80	21.44	52.24	74	-21.76
11570.00	H	Average	21.29	21.44	42.73	54	-11.27

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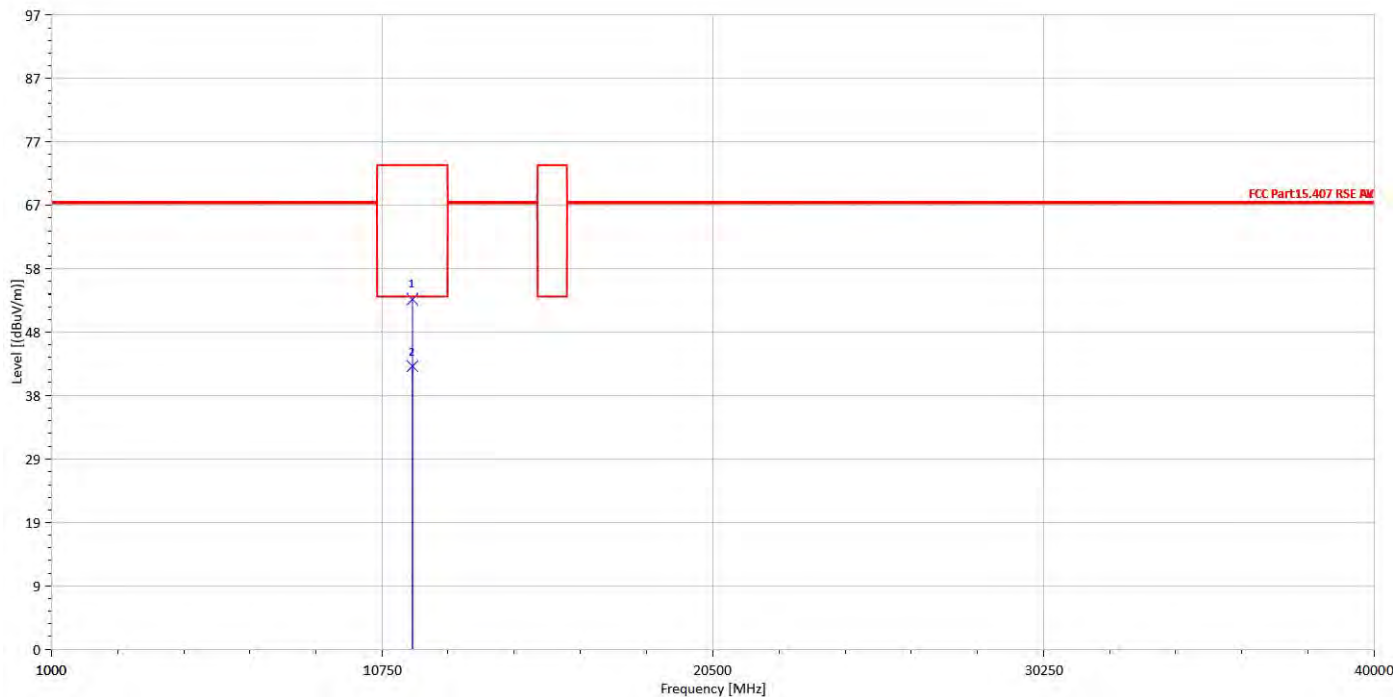
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Operation Mode : 802.11a      Test Date : 2016/8/25  
Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High      Test Engineer : Pony  
EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	31.54	22.02	53.56	74	-20.44
11650.00	H	Average	21.22	22.02	43.24	54	-10.76

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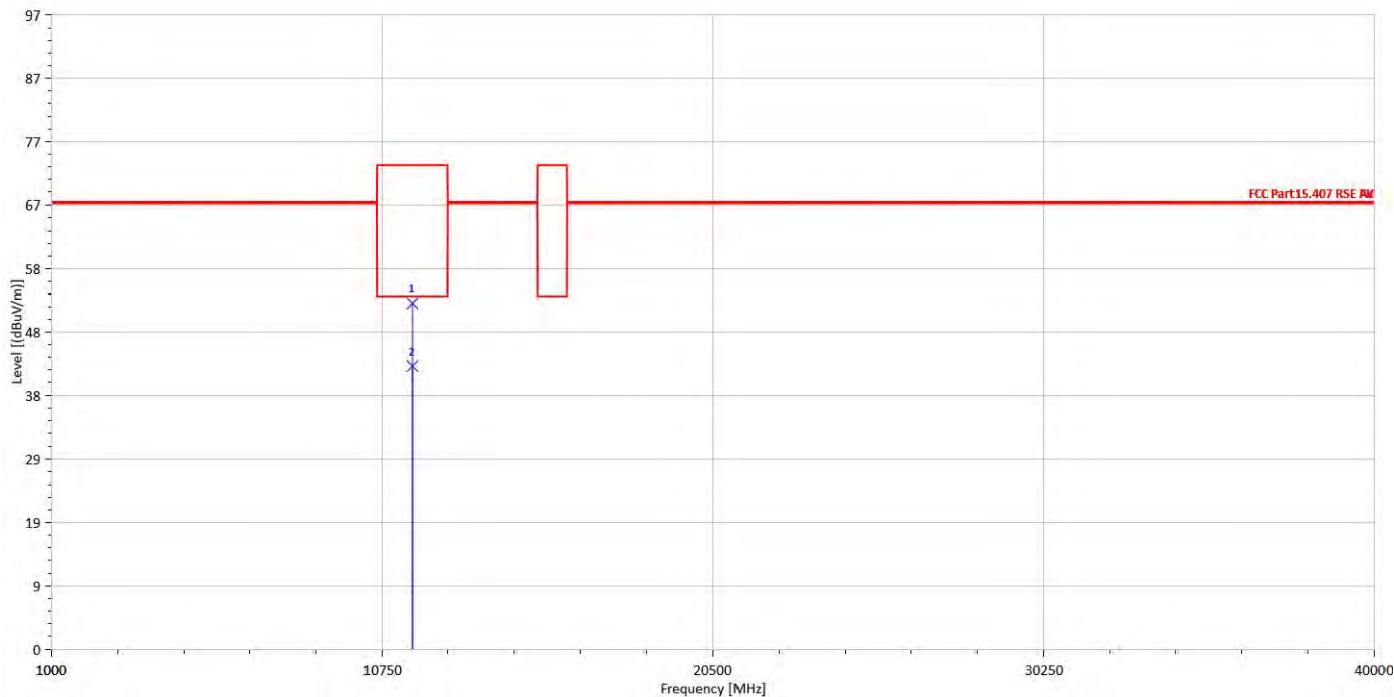
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Operation Mode : 802.11a Test Date : 2016/8/25  
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	30.92	22.02	52.94	74	-21.06
11650.00	H	Average	21.23	22.02	43.25	54	-10.75

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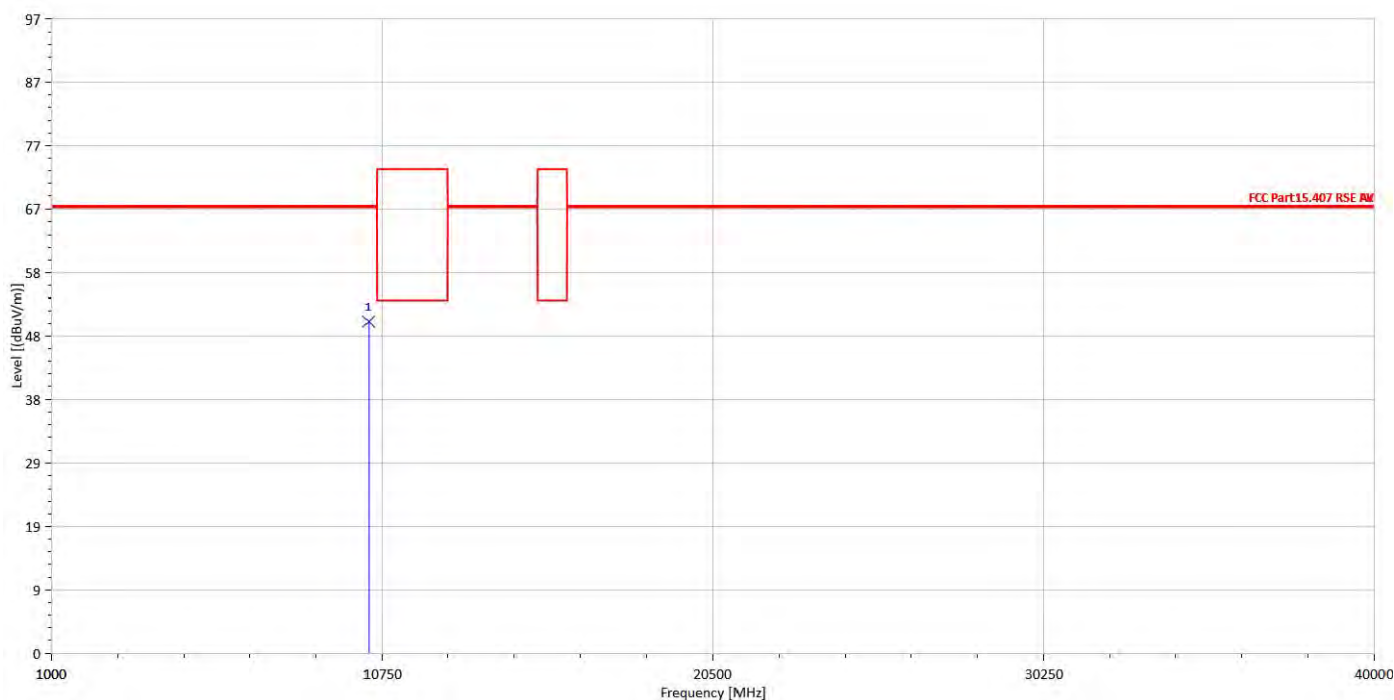
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode :	802.11n20	Test Date :	2016/8/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10360.00	H	Peak	30.57	20.18	50.75	68.3	-17.55

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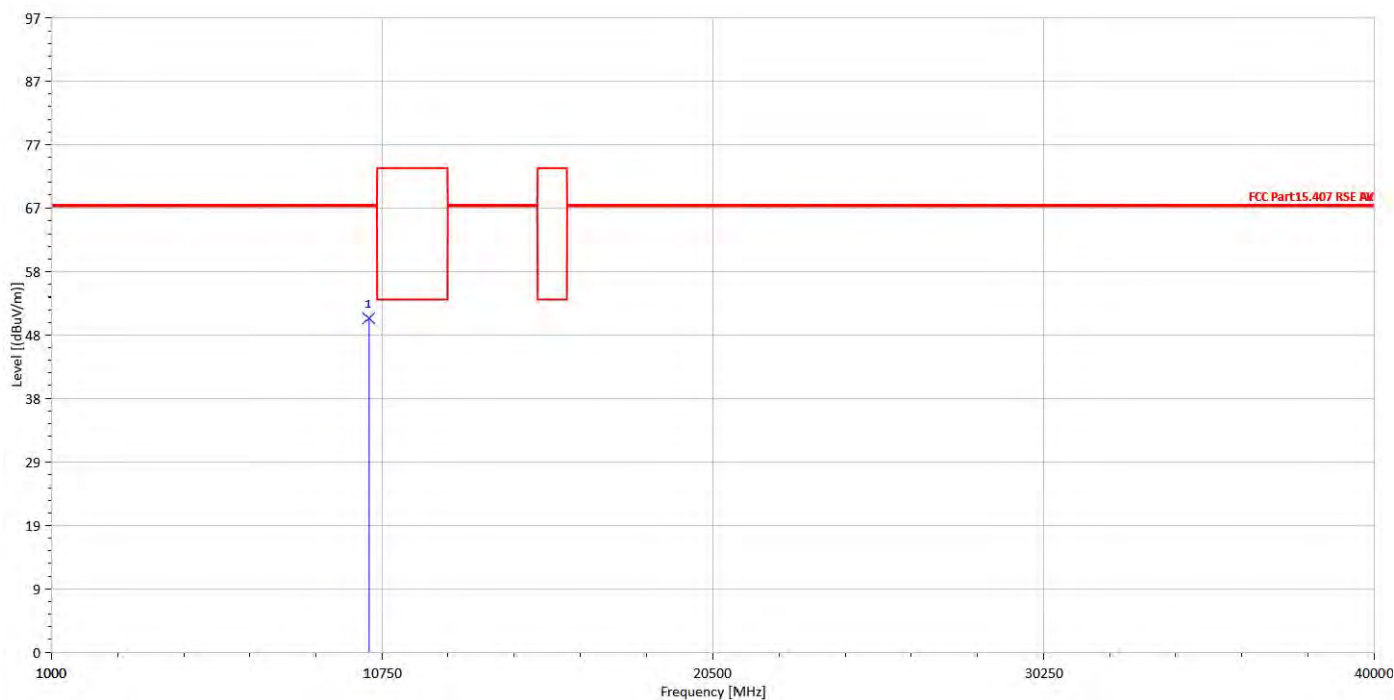
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Operation Mode :	802.11n20	Test Date :	2016/8/25
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10360.00	H	Peak	30.93	20.18	51.11	68.3	-17.19

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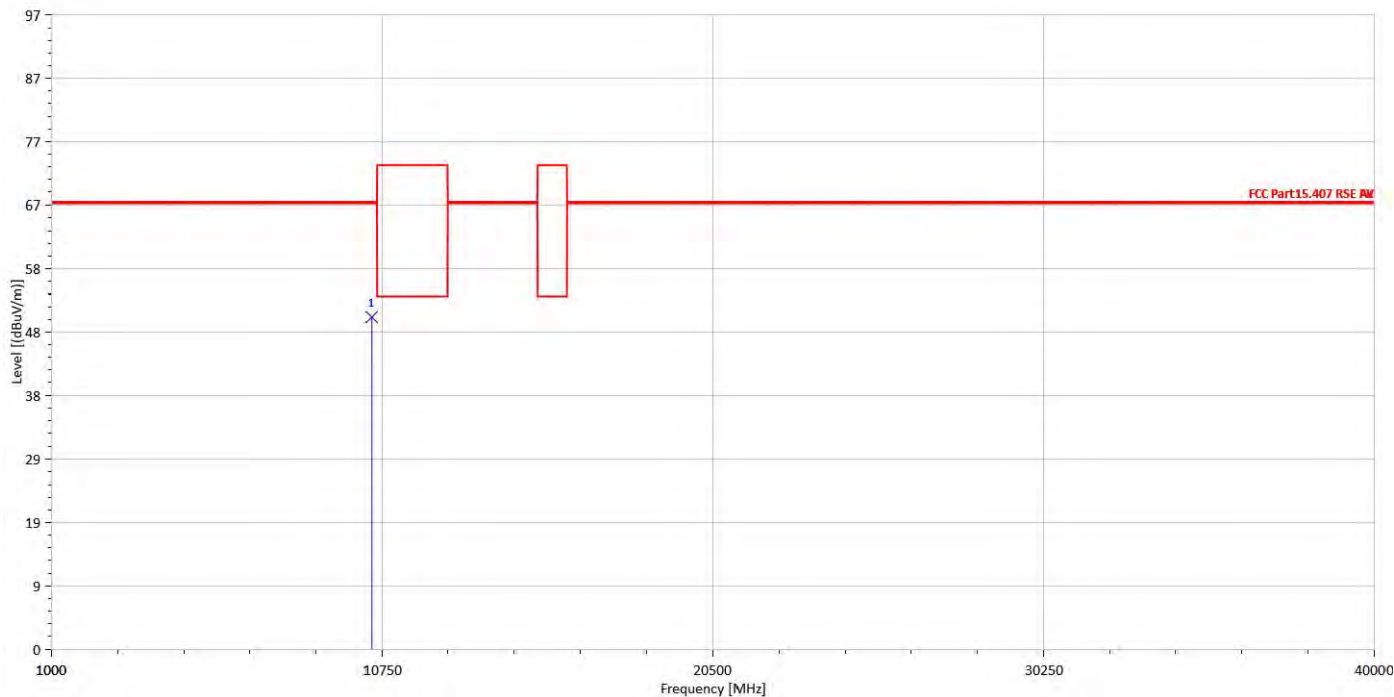
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	30.54	20.29	50.83	68.3	-17.47

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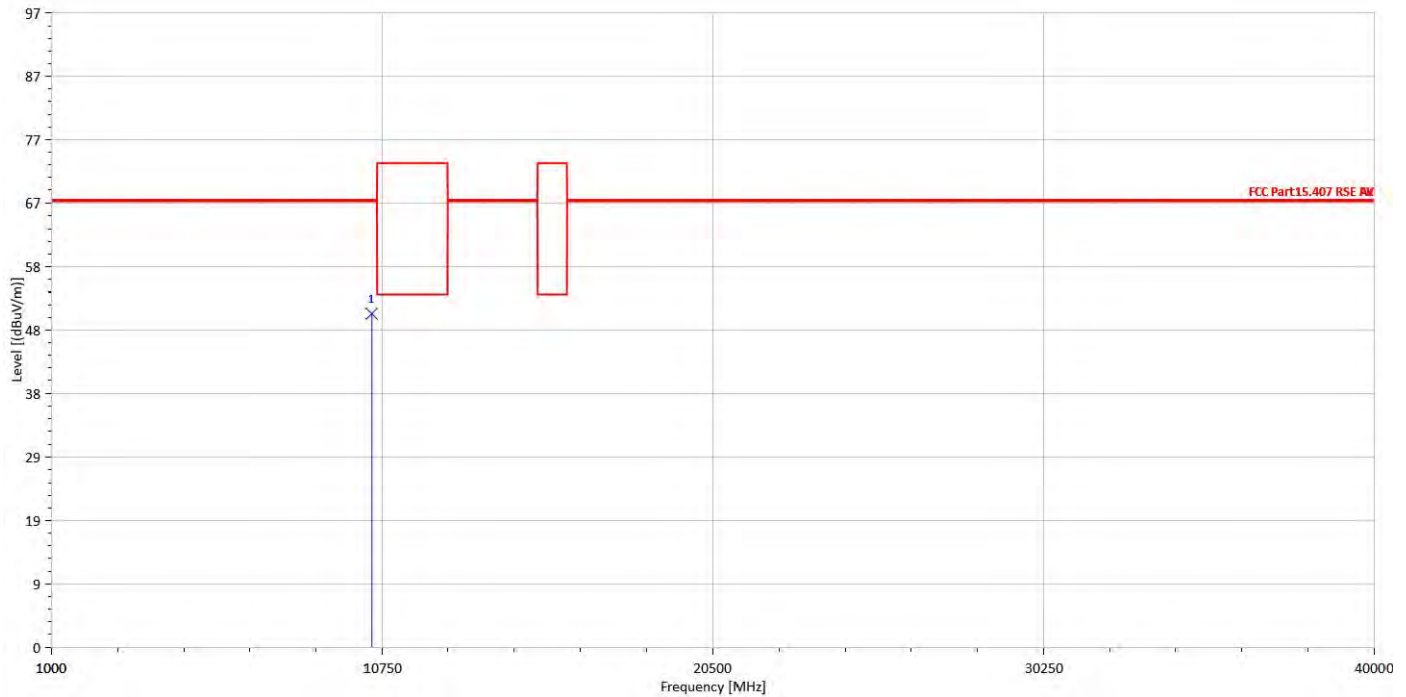
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10440.00	H	Peak	30.75	20.29	51.05	68.3	-17.25

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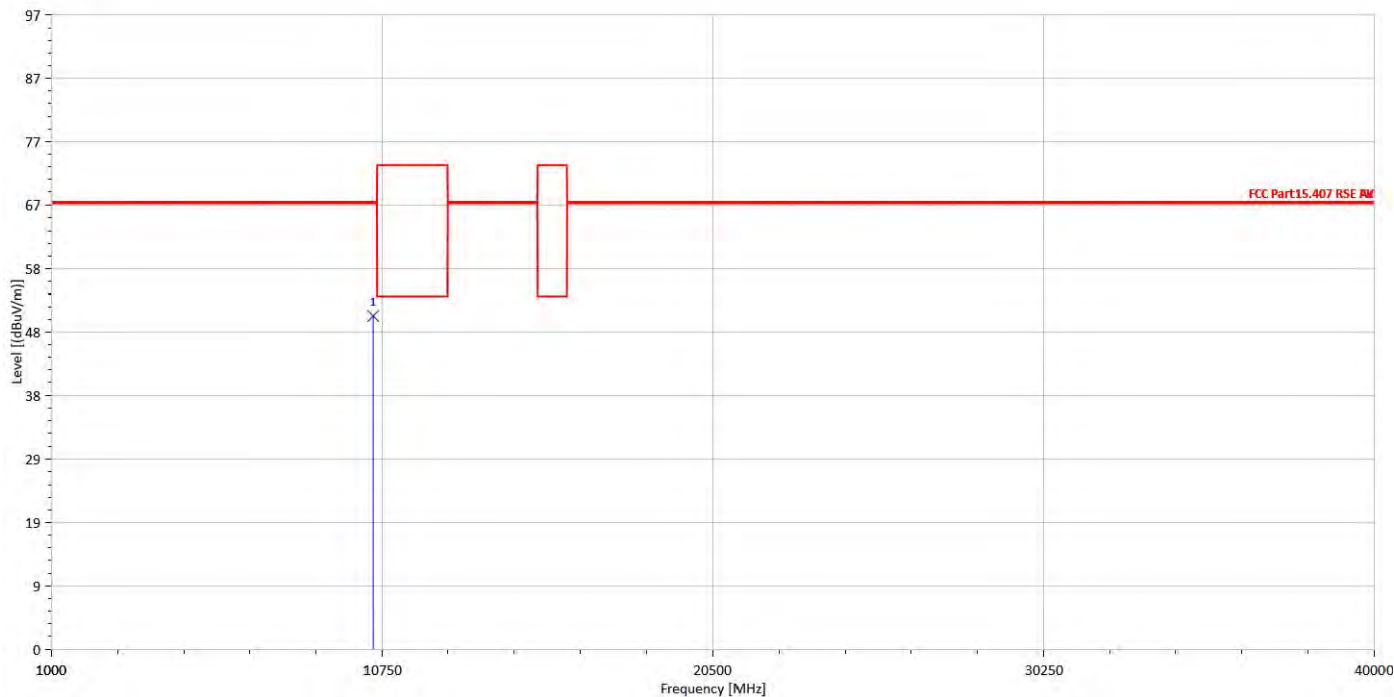
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10480.00	H	Peak	30.32	20.68	51.00	68.3	-17.30

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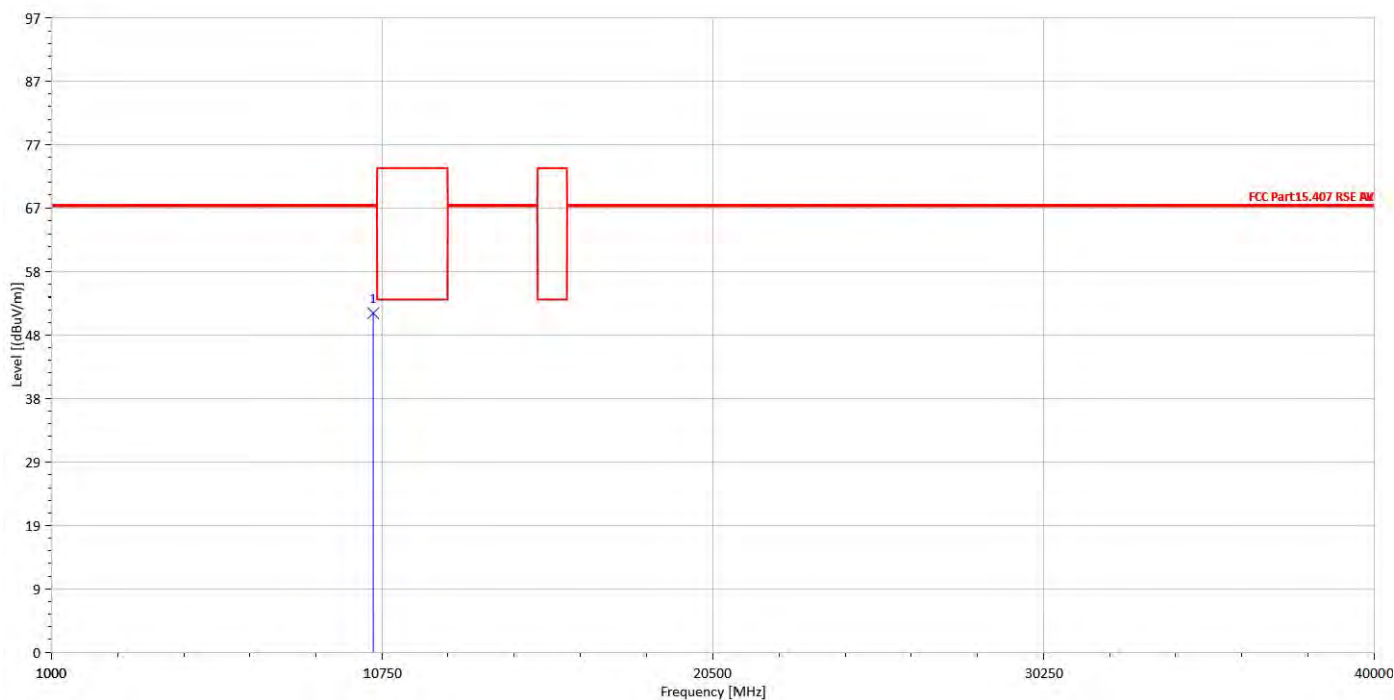
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
 Fundamental Frequency : 5240 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10480.00	H	Peak	31.23	20.68	51.91	68.3	-16.39

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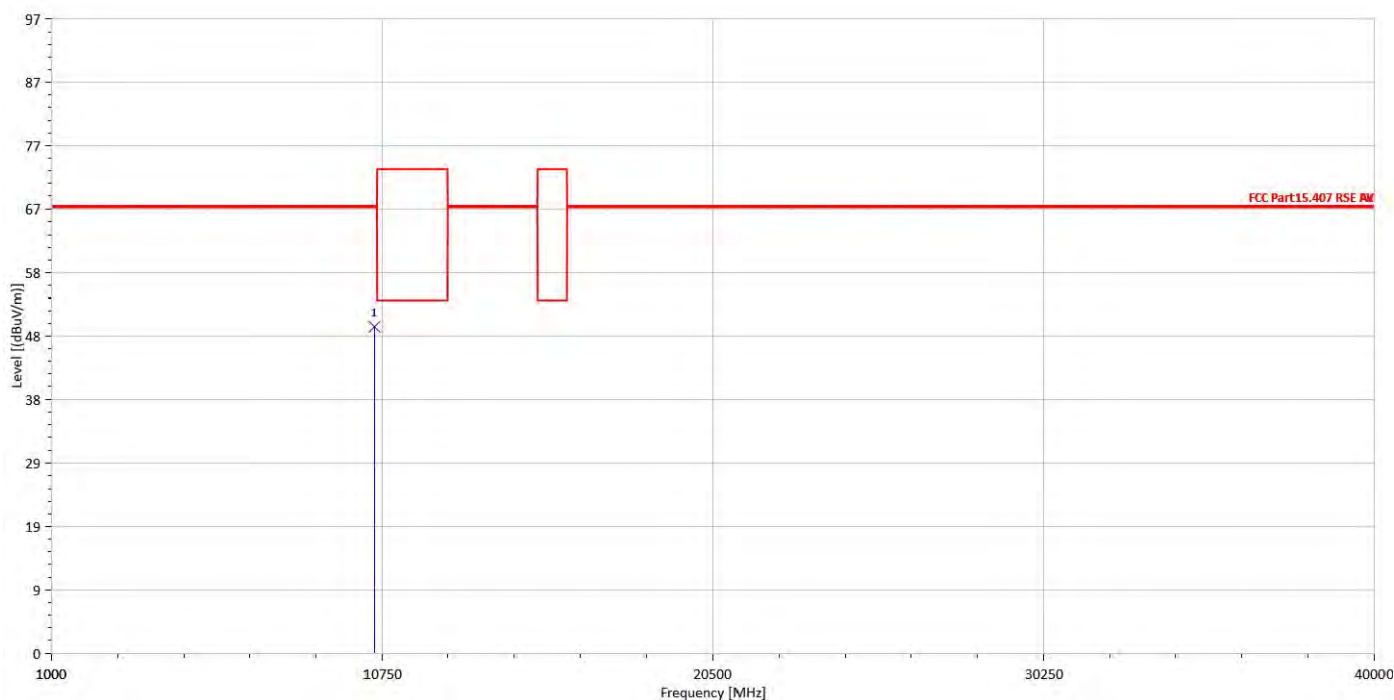
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# Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode :	802.11n20	Test Date :	2016/8/25
Fundamental Frequency :	5260 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10520.00	H	Peak	29.85	20.10	49.95	68.3	-18.35

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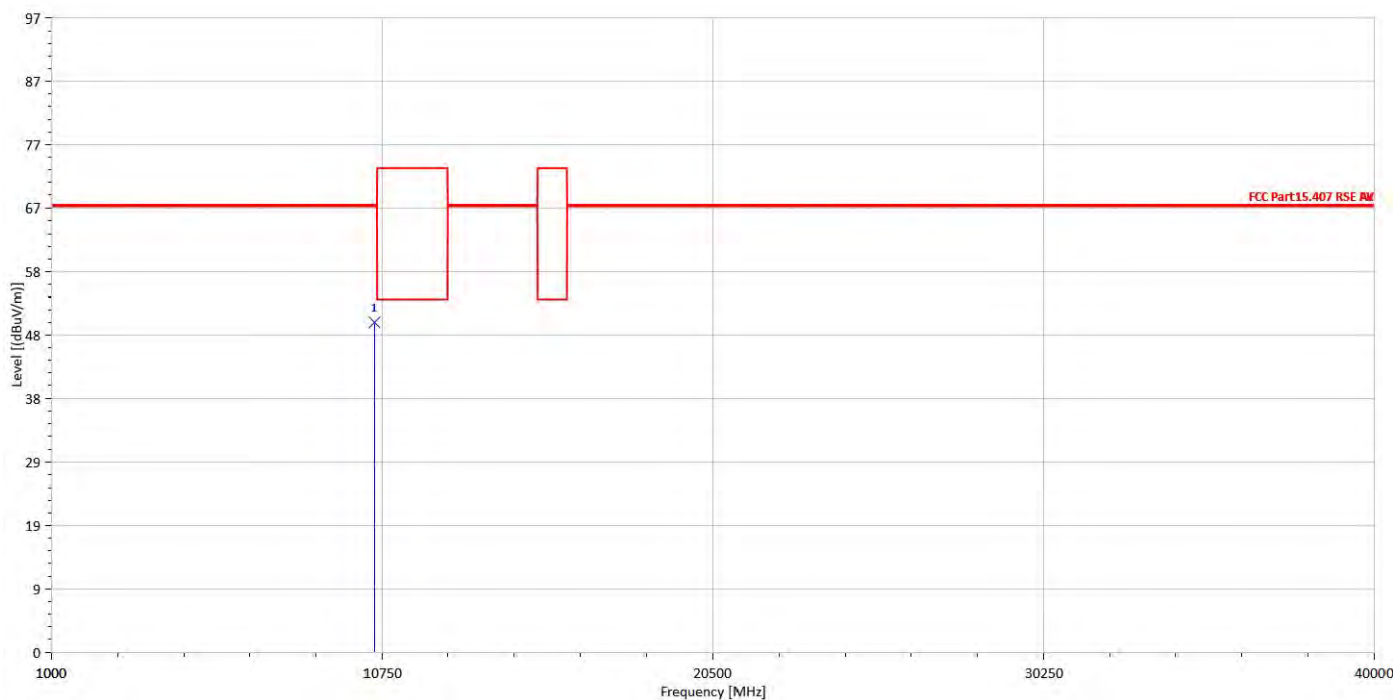
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5260 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10520.00	H	Peak	30.38	20.10	50.48	68.3	-17.82

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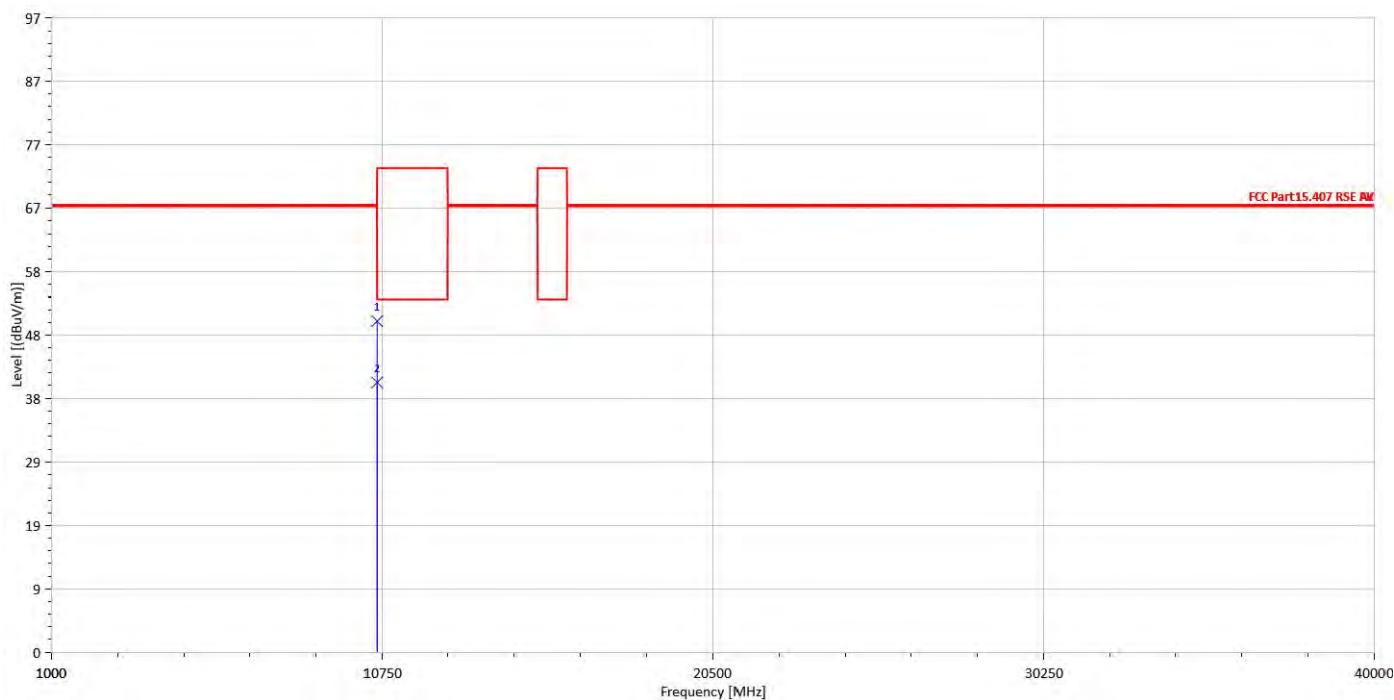
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.49	20.17	50.66	74	-23.34
10600.00	H	Average	21.03	20.17	41.20	54	-12.80

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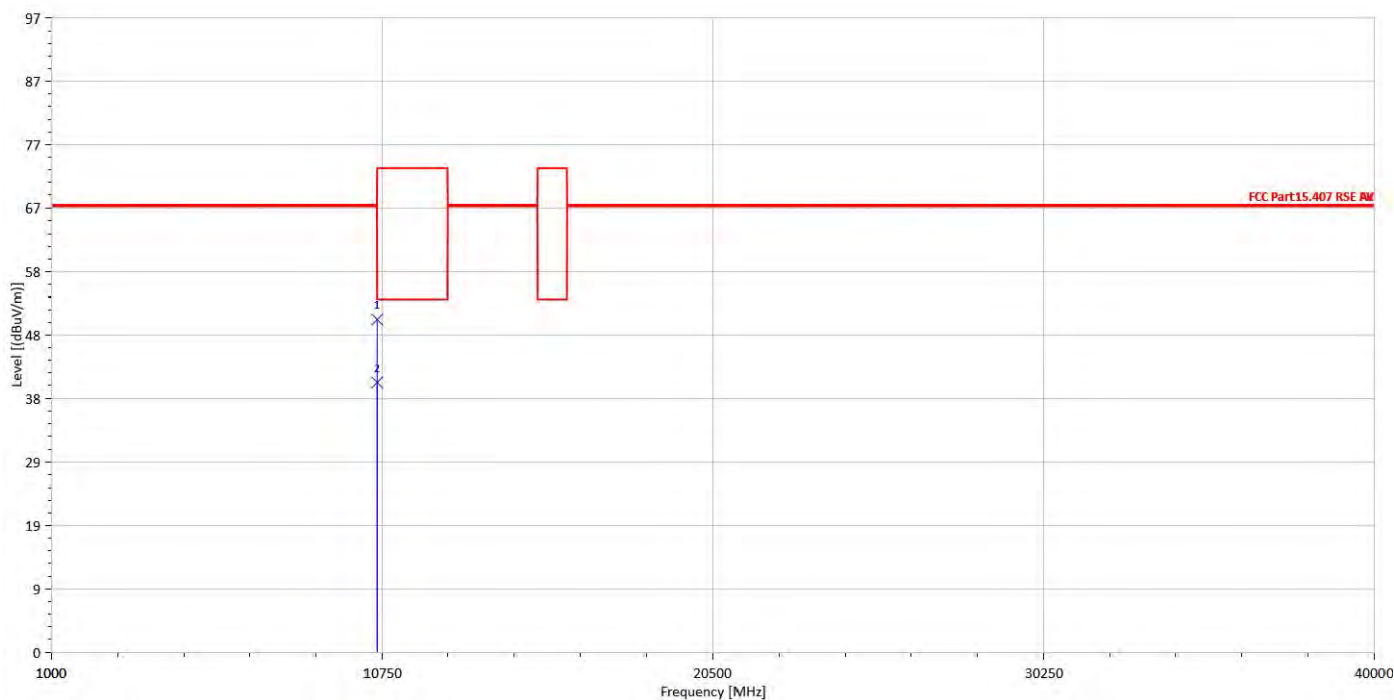
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5300 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10600.00	H	Peak	30.75	20.17	50.92	74	-23.08
10600.00	H	Average	21.03	20.17	41.20	54	-12.80

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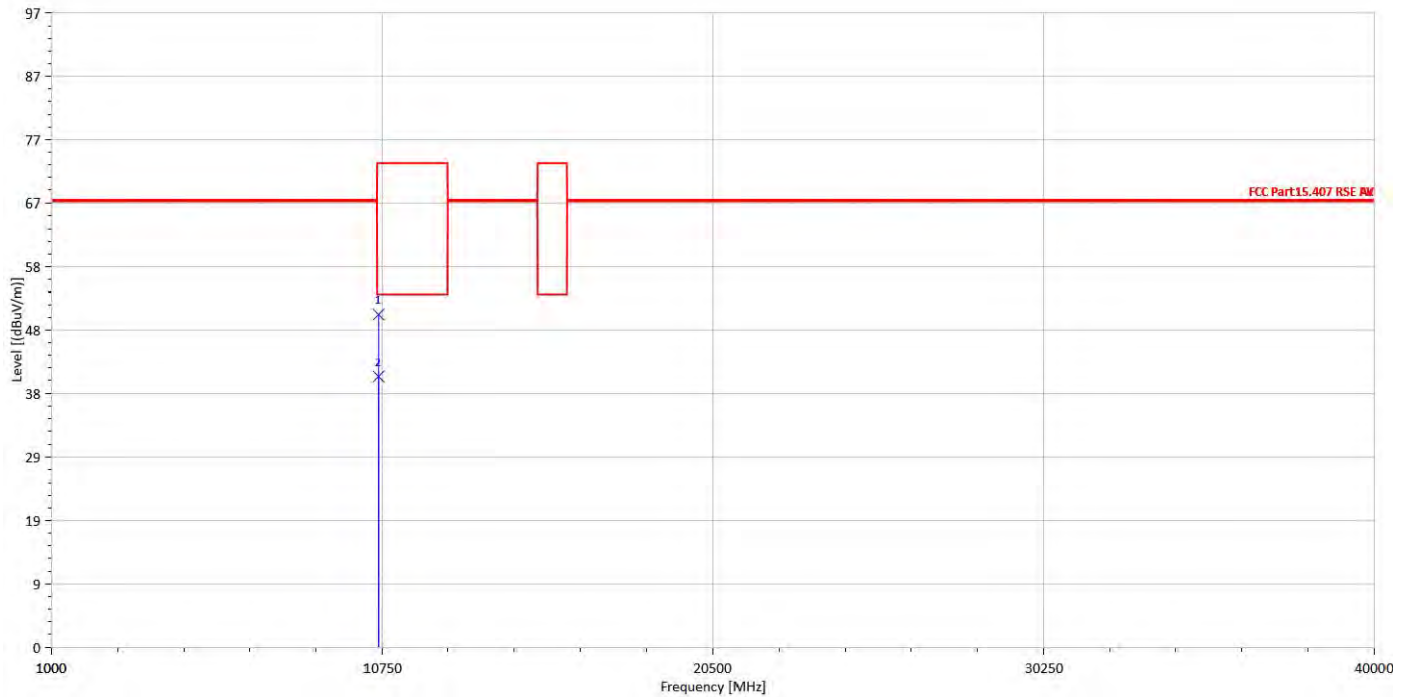
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
Fundamental Frequency : 5320 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	30.58	20.34	50.92	74	-23.08
10640.00	H	Average	21.01	20.34	41.35	54	-12.65

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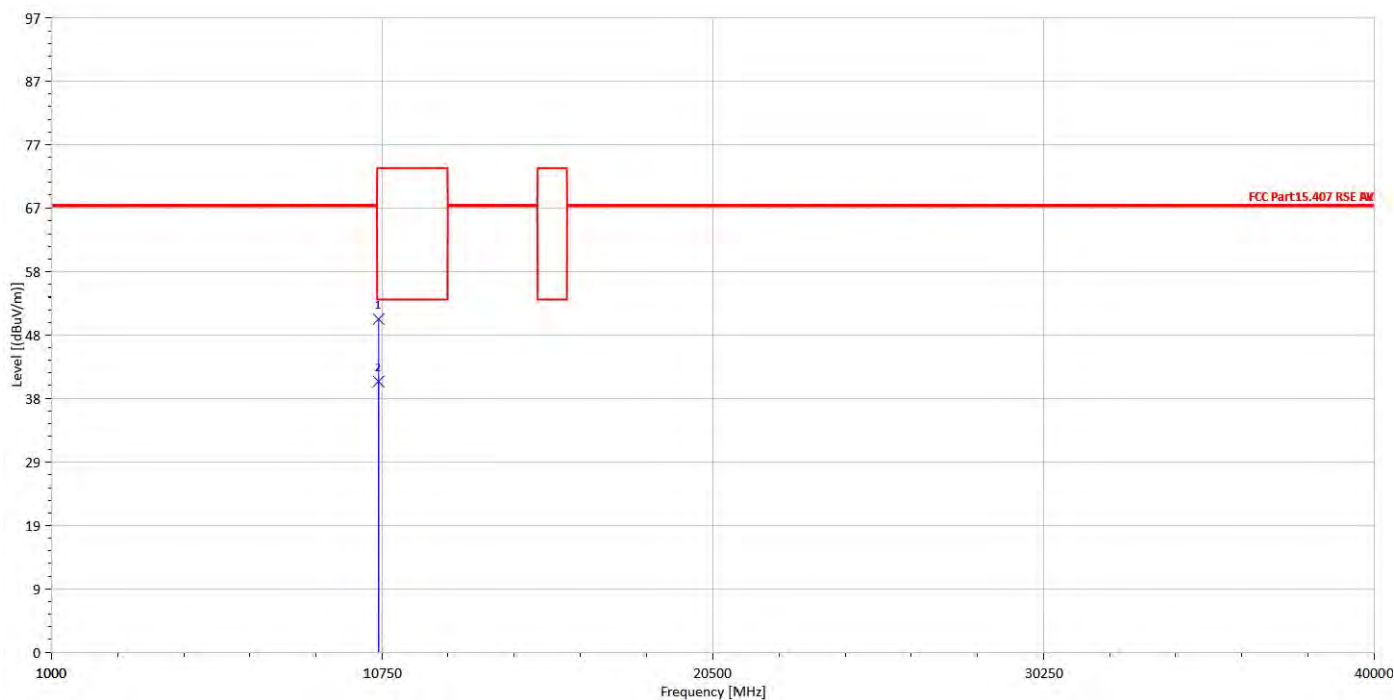
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5320 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10640.00	H	Peak	30.65	20.34	50.99	74	-23.01
10640.00	H	Average	21.00	20.34	41.34	54	-12.66

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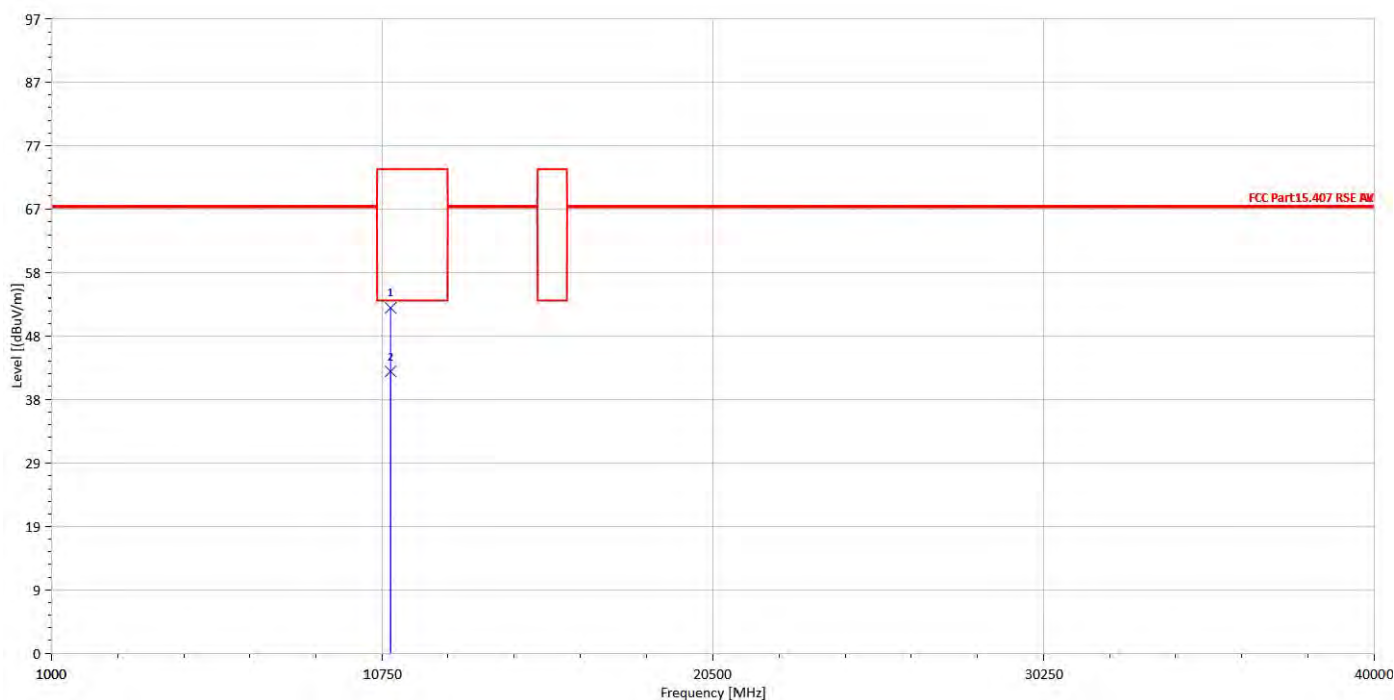
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode :	802.11n20	Test Date :	2016/8/25
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11000.00	H	Peak	30.77	22.11	52.87	74	-21.13
11000.00	H	Average	20.97	22.11	43.08	54	-10.92

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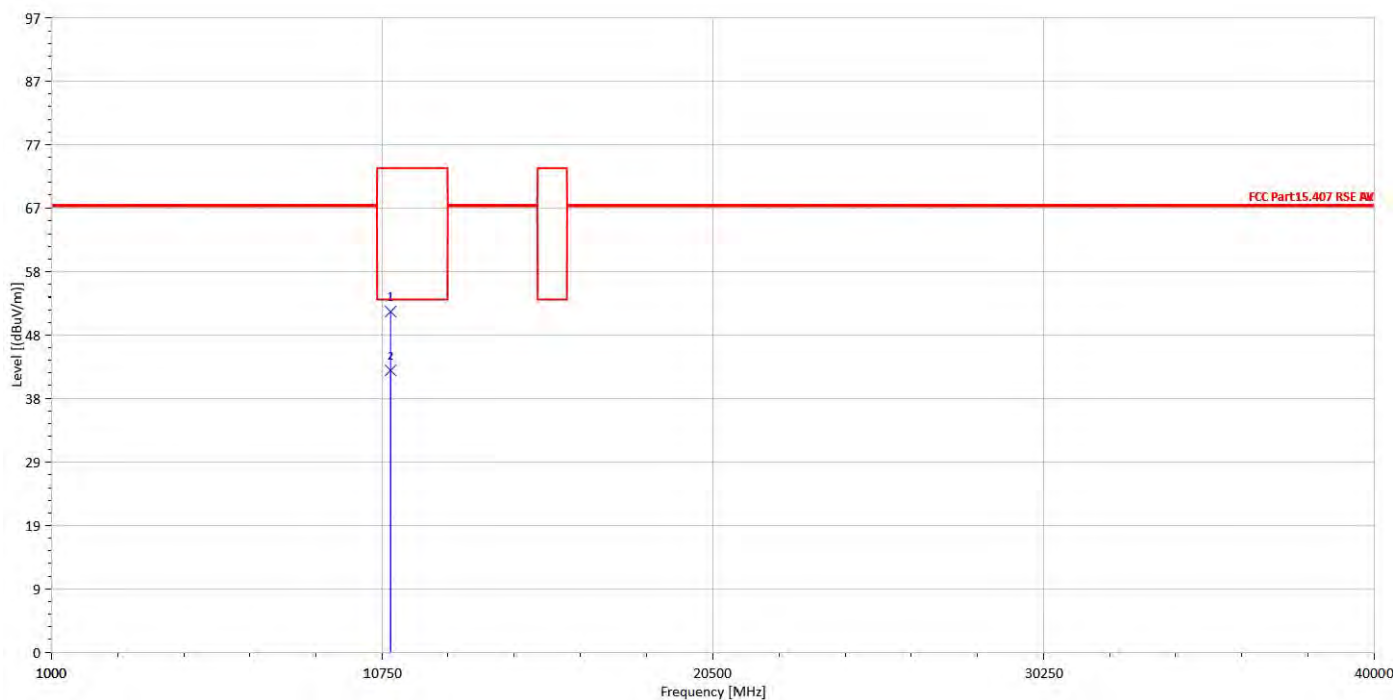
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5500 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11000.00	H	Peak	30.02	22.11	52.13	74	-21.87
11000.00	H	Average	20.97	22.11	43.08	54	-10.92

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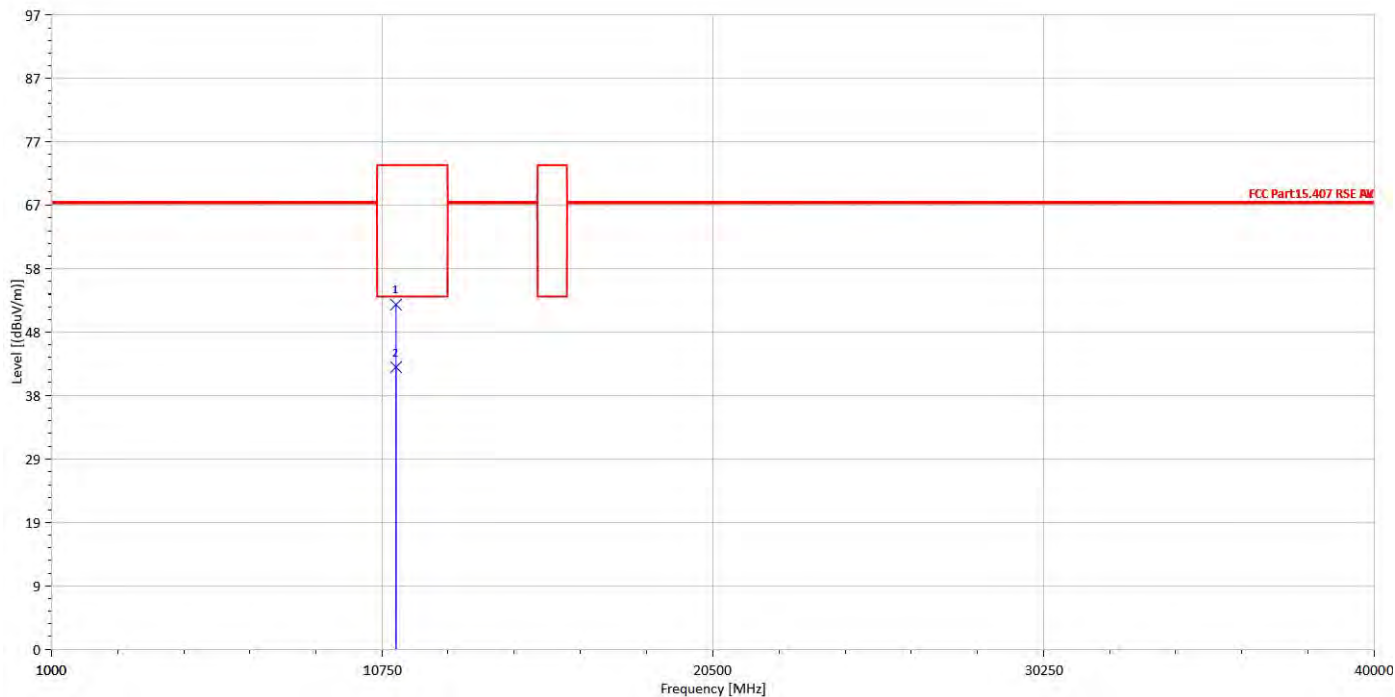
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
Fundamental Frequency : 5580 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	30.72	22.04	52.76	74	-21.24
11160.00	H	Average	21.06	22.04	43.10	54	-10.90

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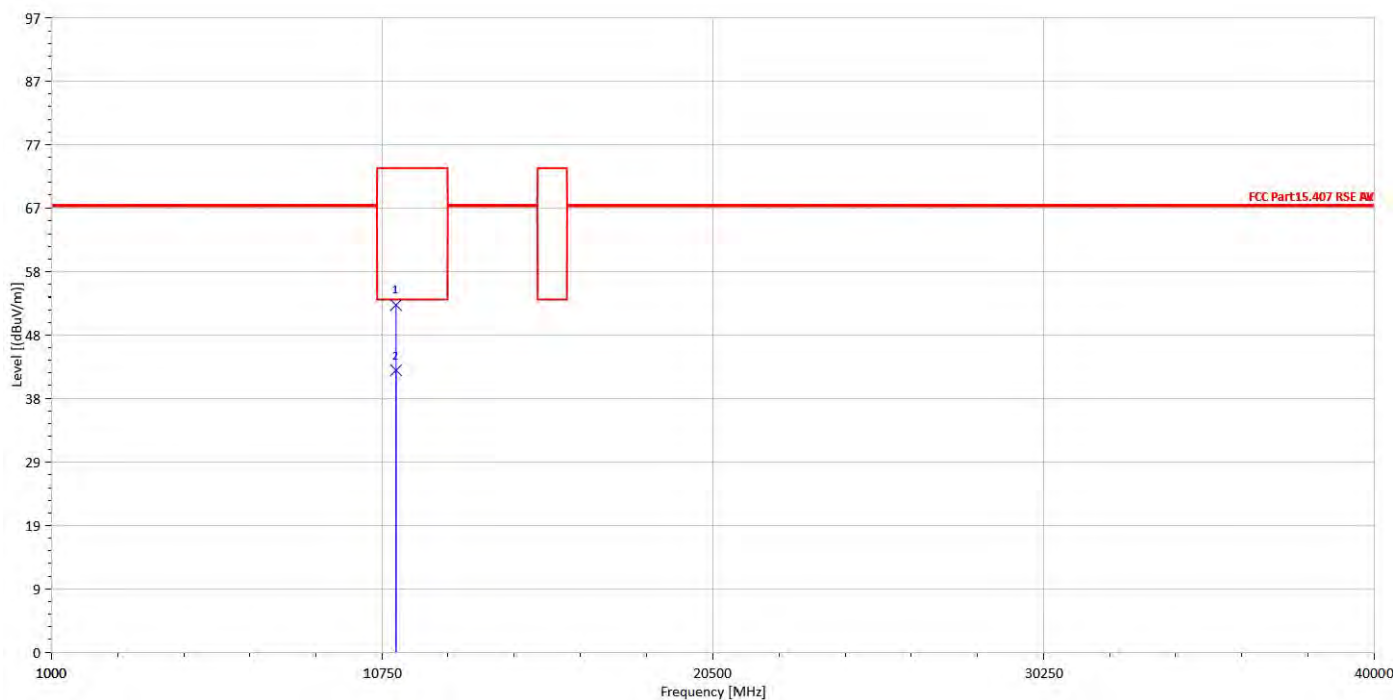
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5580 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11160.00	H	Peak	31.11	22.04	53.15	74	-20.85
11160.00	H	Average	21.04	22.04	43.08	54	-10.92

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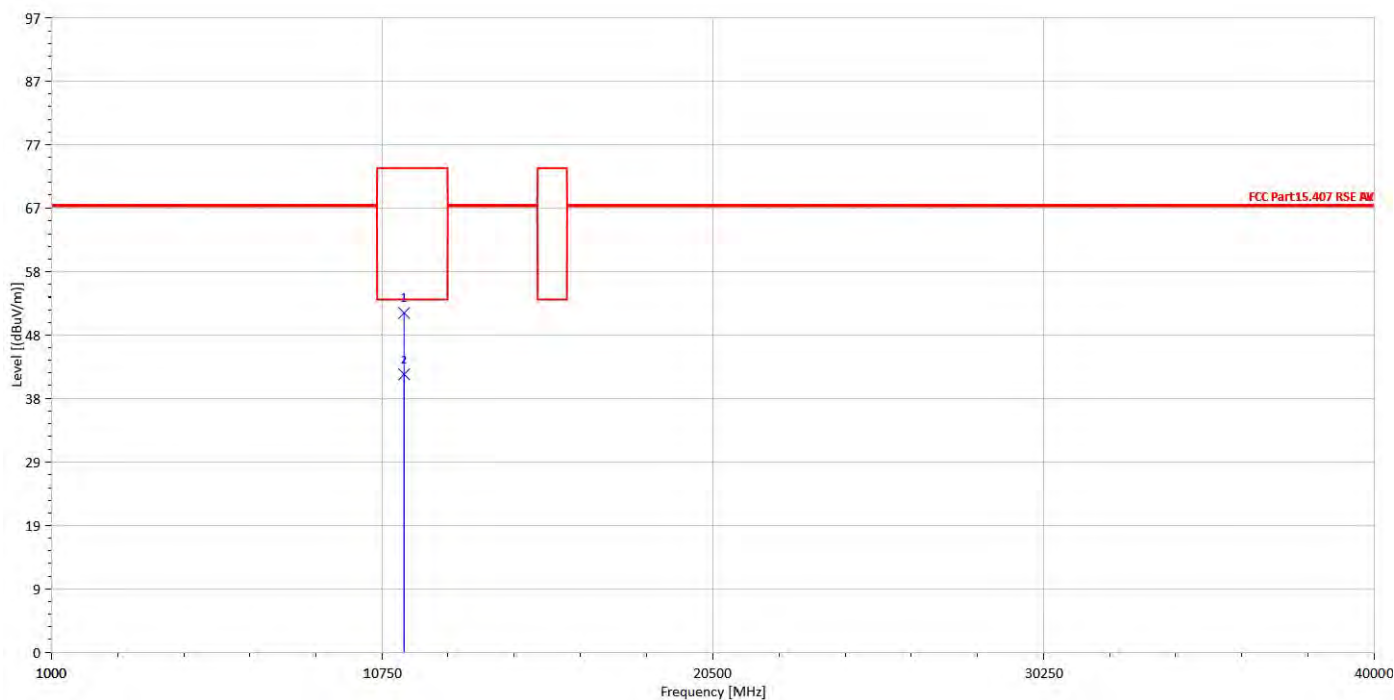
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11400.00	H	Peak	30.72	21.22	51.93	74	-22.07
11400.00	H	Average	21.25	21.22	42.47	54	-11.53

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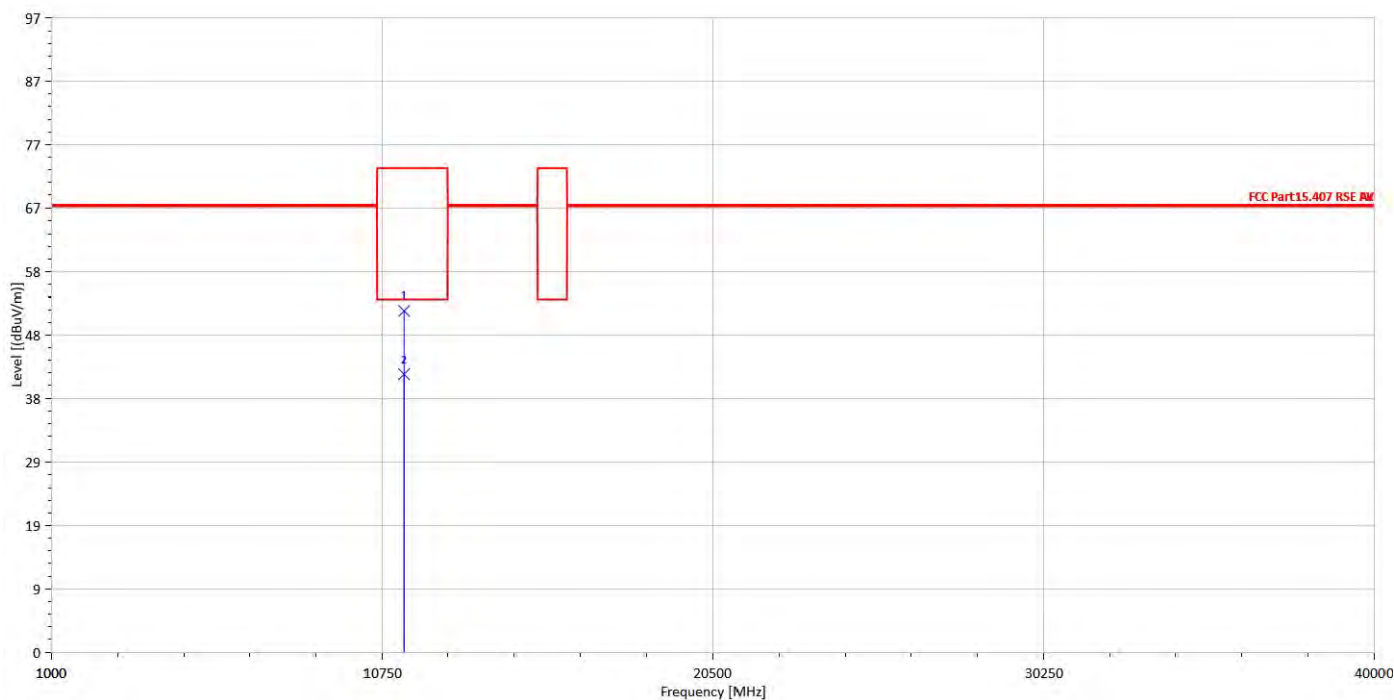
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5700 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11400.00	H	Peak	31.03	21.22	52.24	74	-21.76
11400.00	H	Average	21.26	21.22	42.48	54	-11.52

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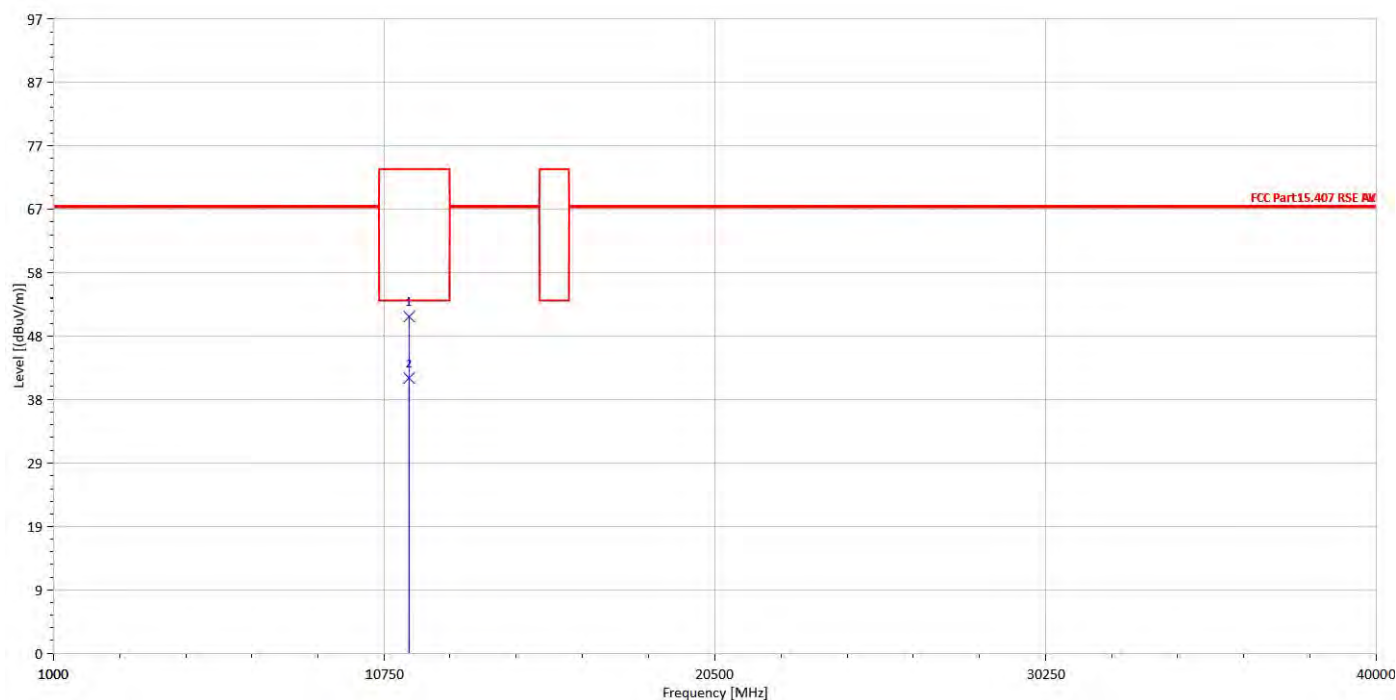
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## Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode :	802.11n20	Test Date :	2016/8/25
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11490.00	H	Peak	30.82	20.70	51.52	74	-22.48
11490.00	H	Average	21.32	20.70	42.02	54	-11.98

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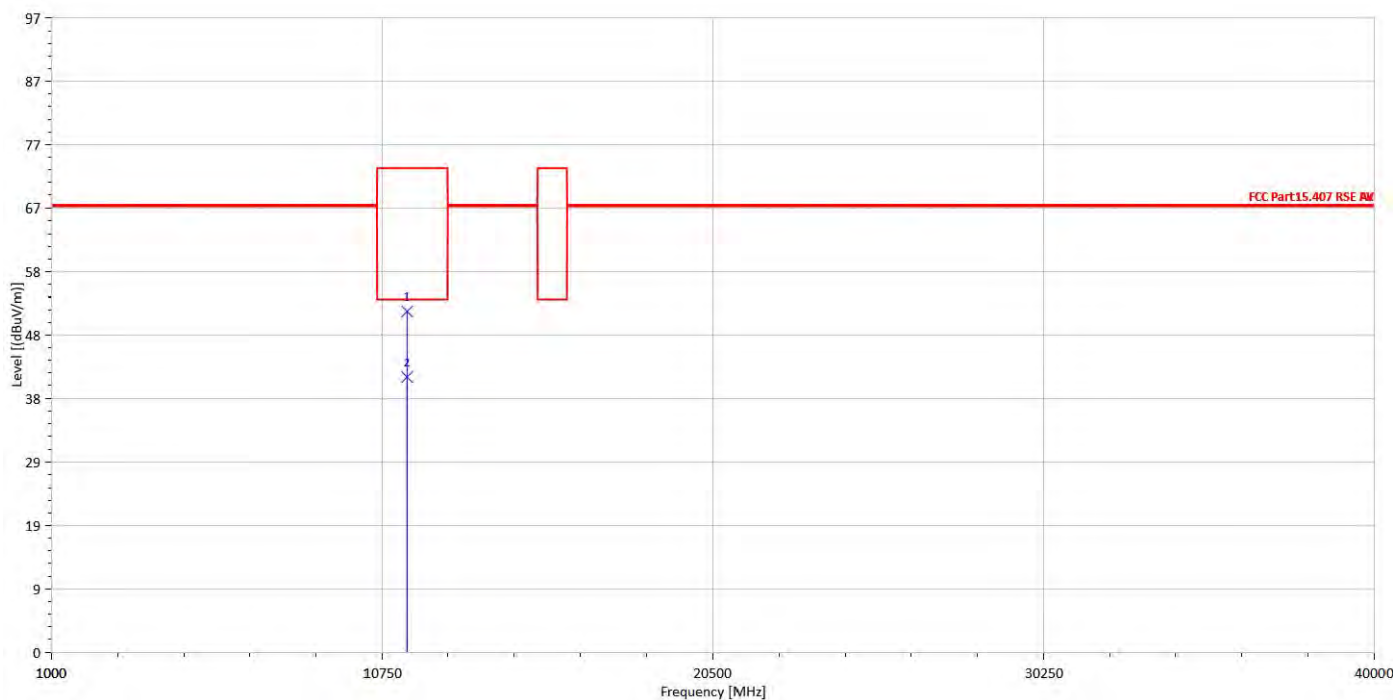
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5745 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11490.00	H	Peak	31.46	20.70	52.16	74	-21.84
11490.00	H	Average	21.33	20.70	42.03	54	-11.97

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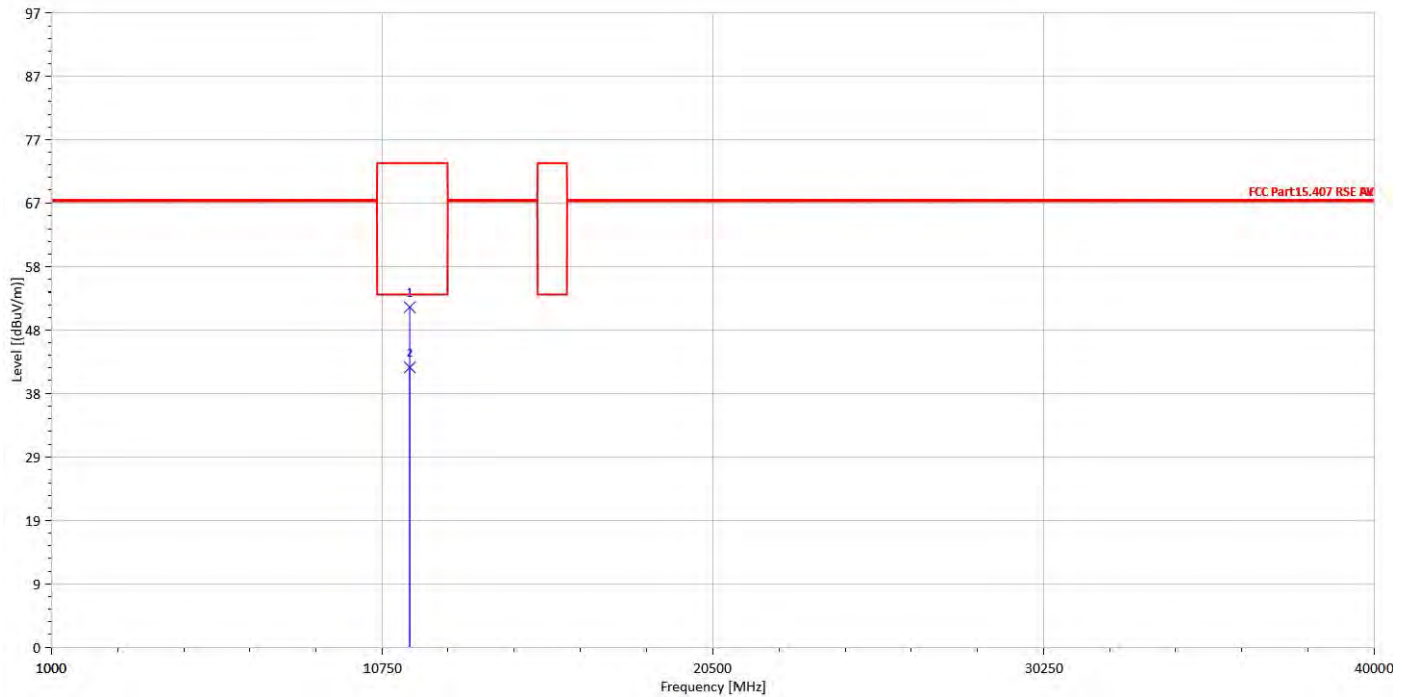
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11570.00	H	Peak	30.60	21.44	52.05	74	-21.95
11570.00	H	Average	21.31	21.44	42.75	54	-11.25

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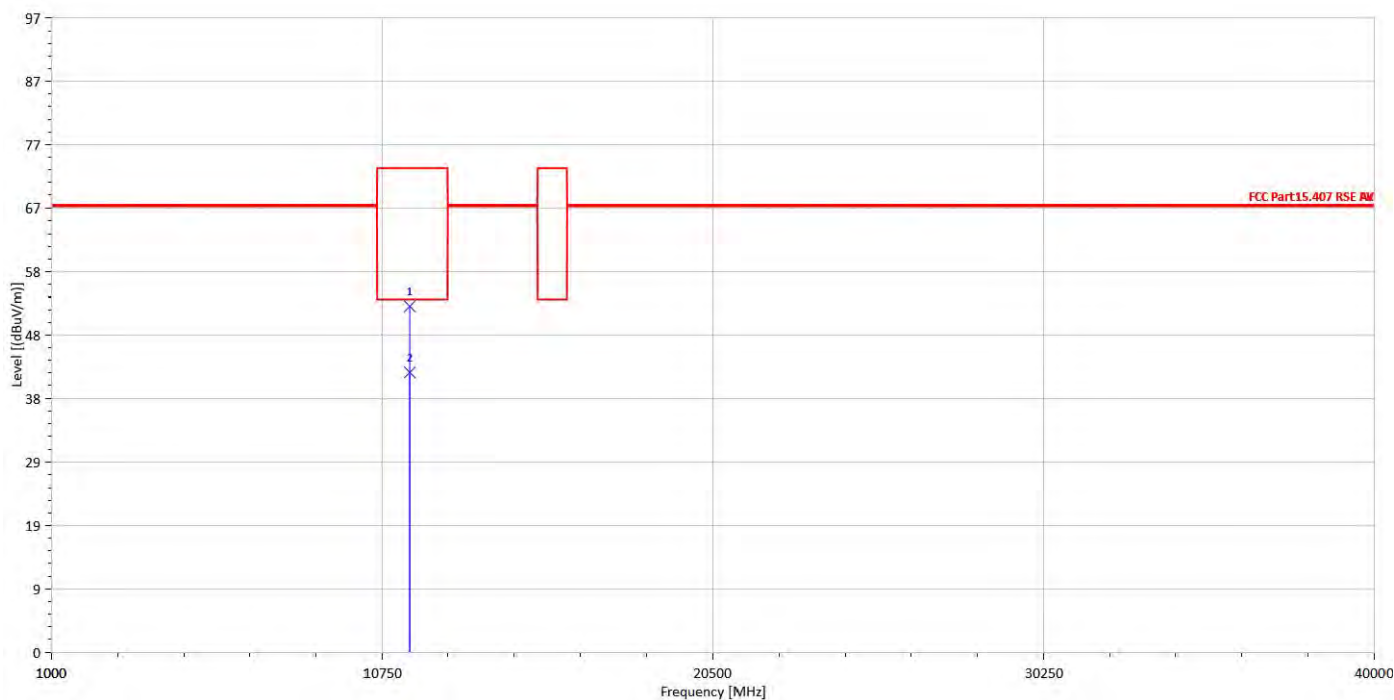
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
 Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11570.00	H	Peak	31.51	21.44	52.95	74	-21.05
11570.00	H	Average	21.30	21.44	42.74	54	-11.26

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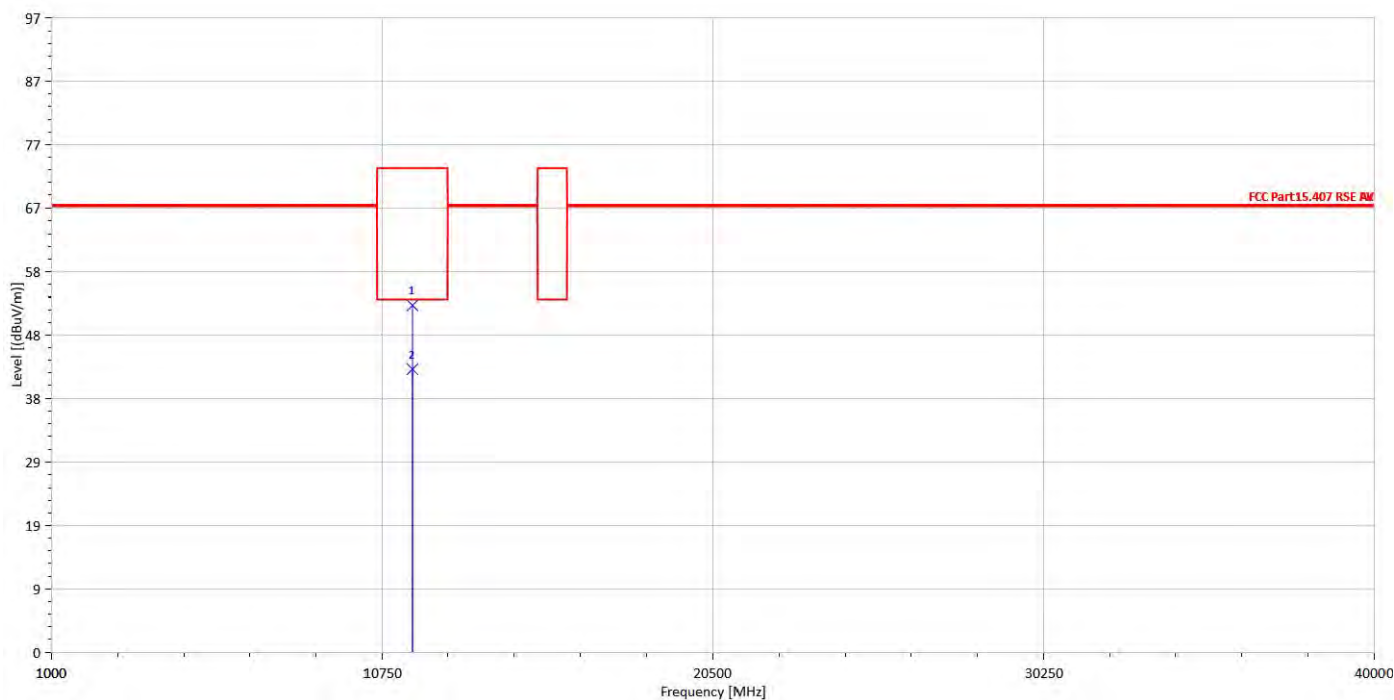
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Operation Mode : 802.11n20 Test Date : 2016/8/25  
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	31.08	22.02	53.10	74	-20.90
11650.00	H	Average	21.22	22.02	43.24	54	-10.76

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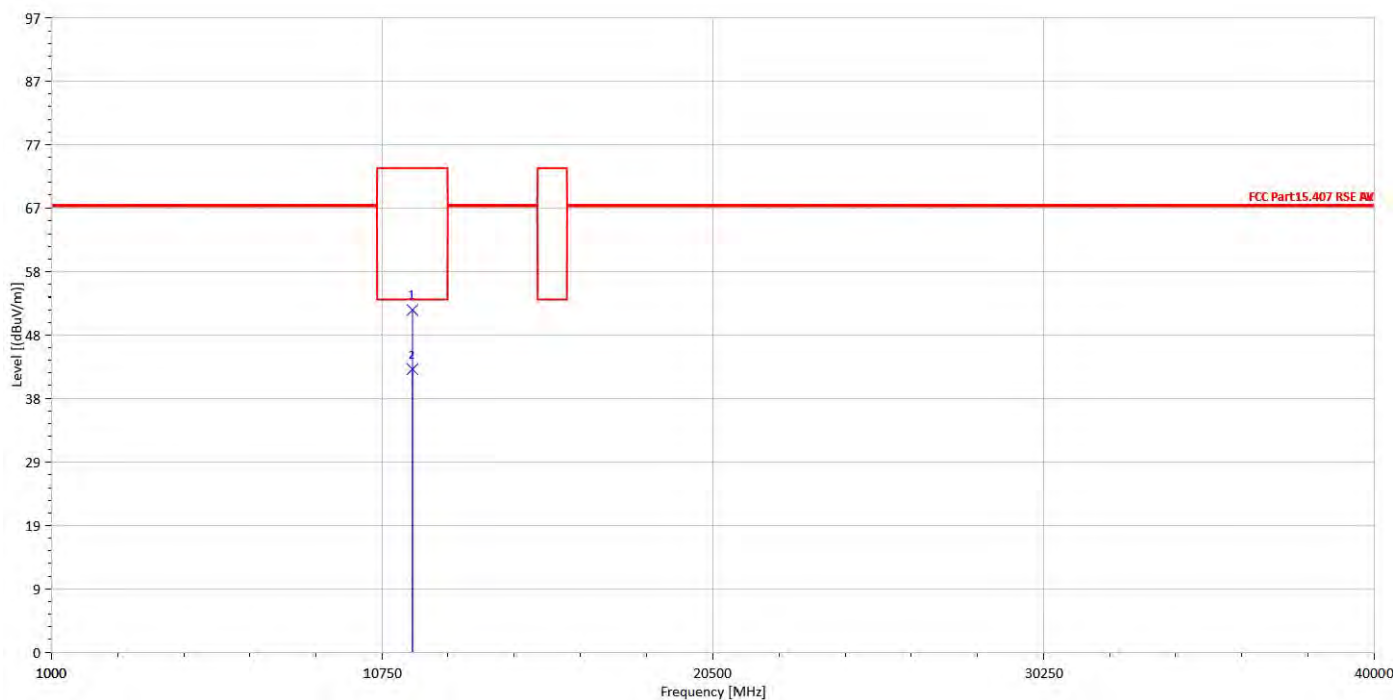
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Operation Mode : 802.11n20      Test Date : 2016/8/25  
 Fundamental Frequency : 5825 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11650.00	H	Peak	30.37	22.02	52.39	74	-21.61
11650.00	H	Average	21.22	22.02	43.24	54	-10.76

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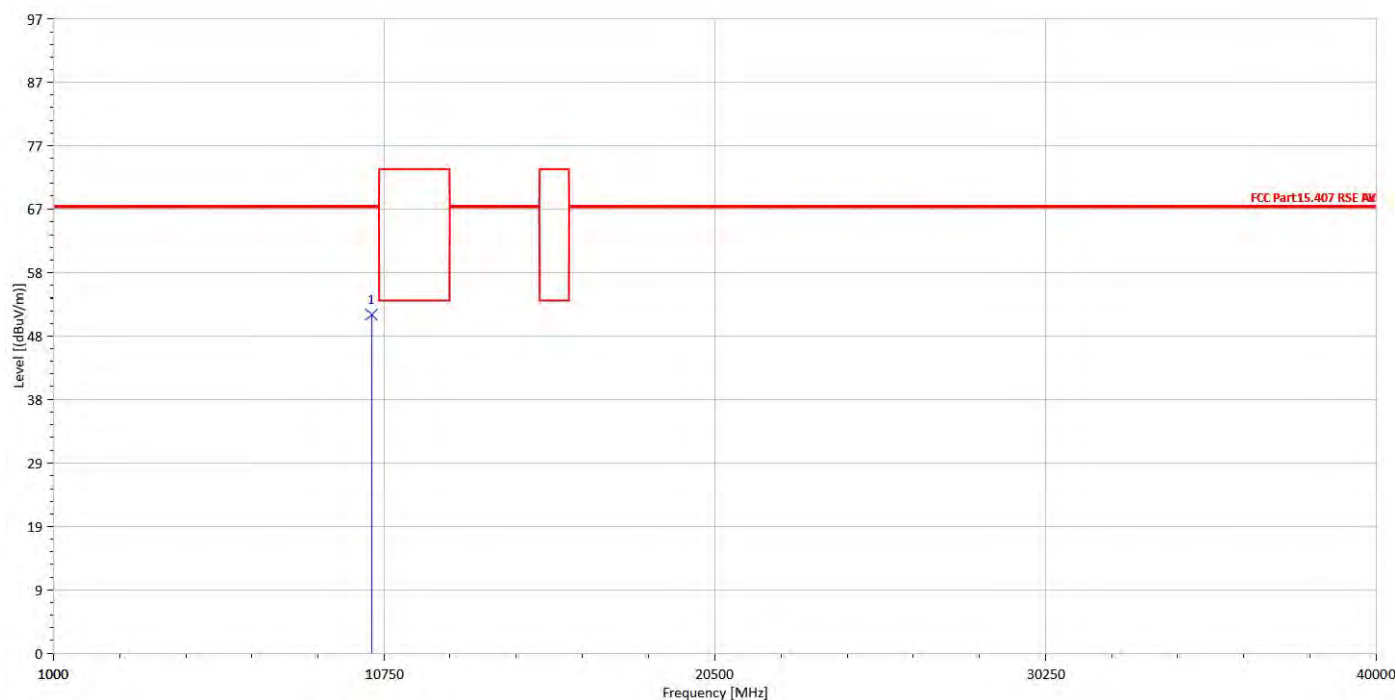
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode :	802.11n40	Test Date :	2016/8/25
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.00	H	Peak	30.88	20.95	51.83	68.3	-16.47

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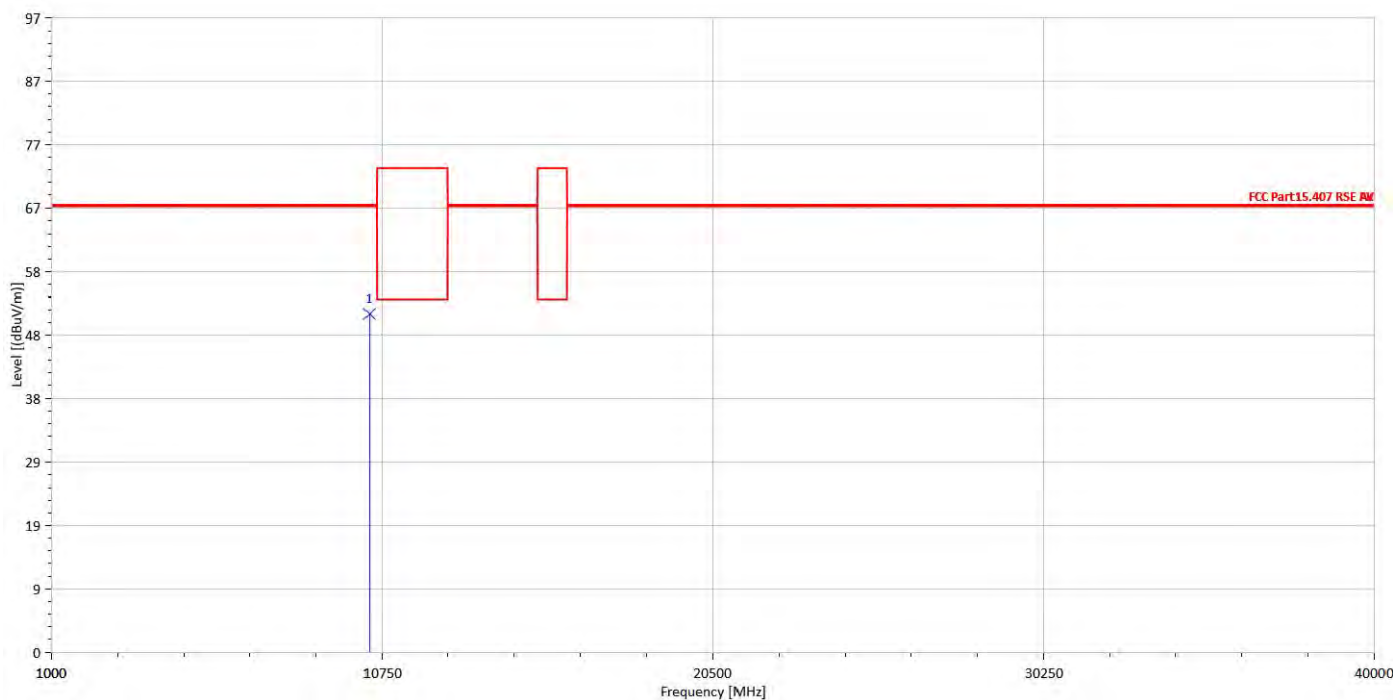
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5190 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10380.00	H	Peak	30.83	20.95	51.78	68.3	-16.52

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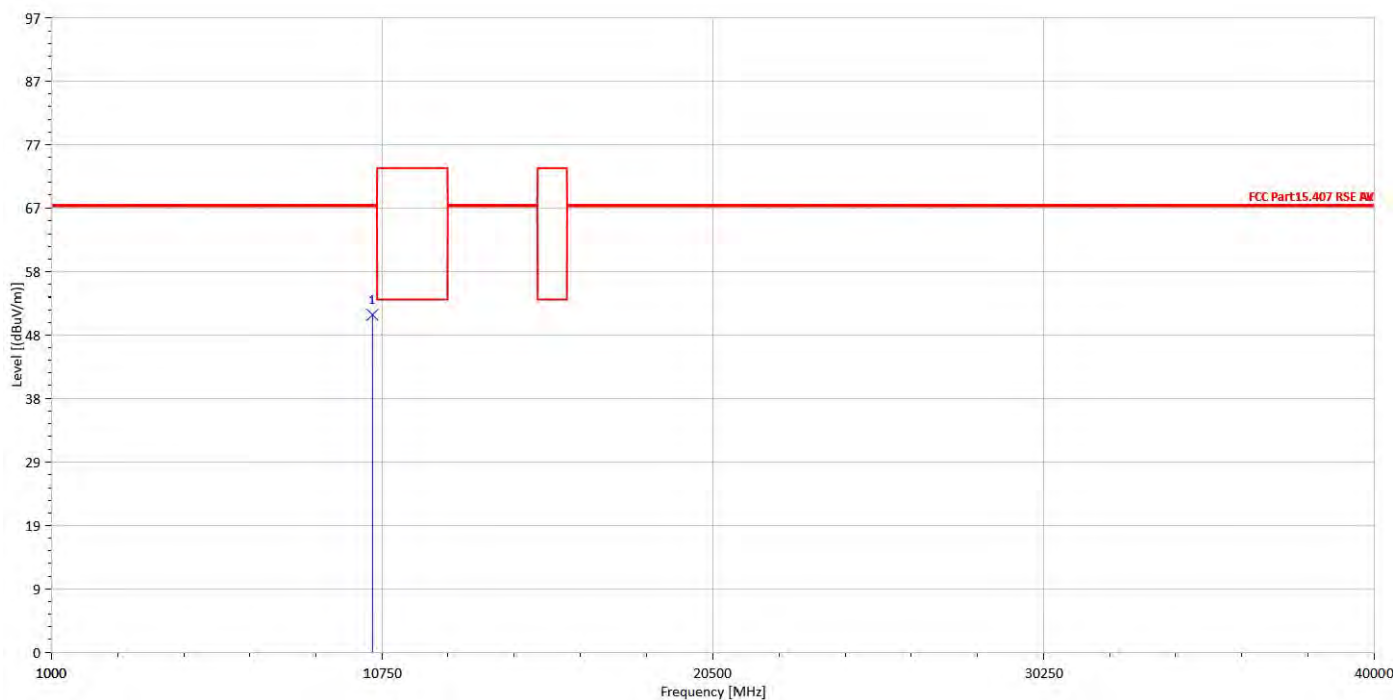
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Operation Mode :	802.11n40	Test Date :	2016/8/25
Fundamental Frequency :	5230 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10460.00	H	Peak	30.70	20.95	51.65	68.3	-16.65

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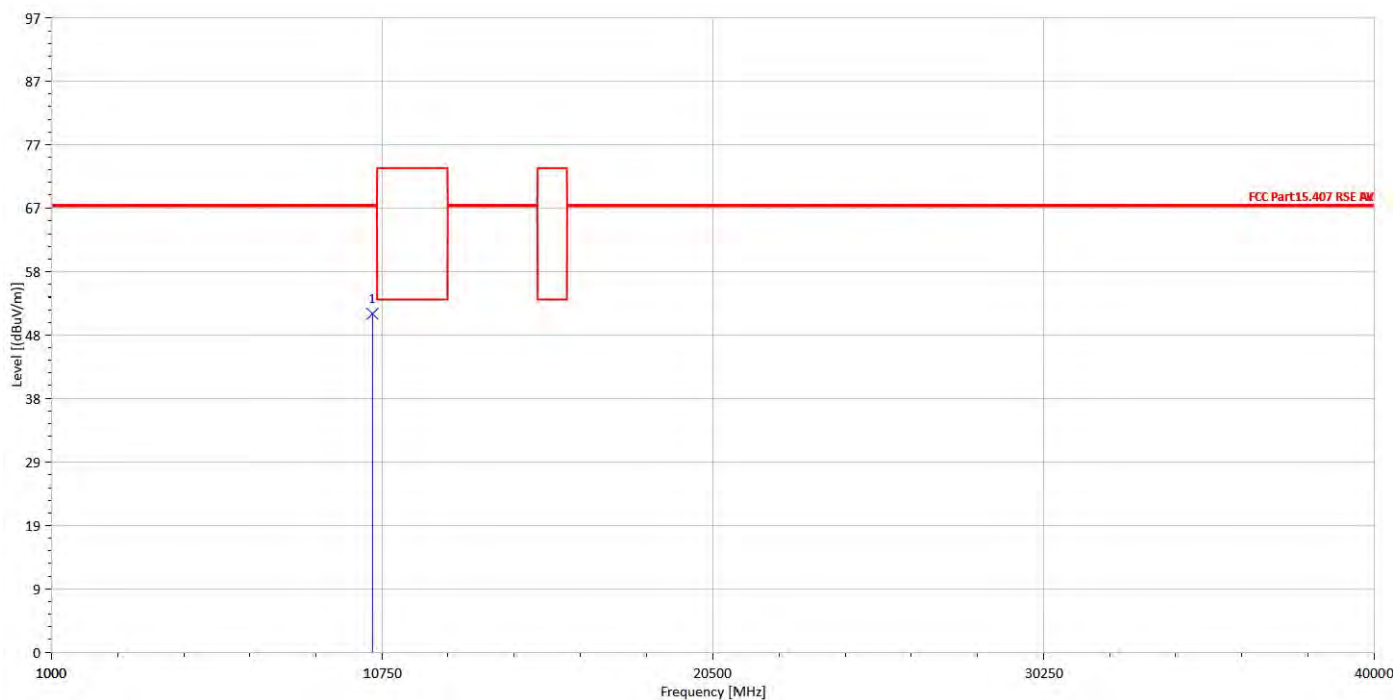
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5230 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10460.00	H	Peak	30.86	20.95	51.81	68.3	-16.49

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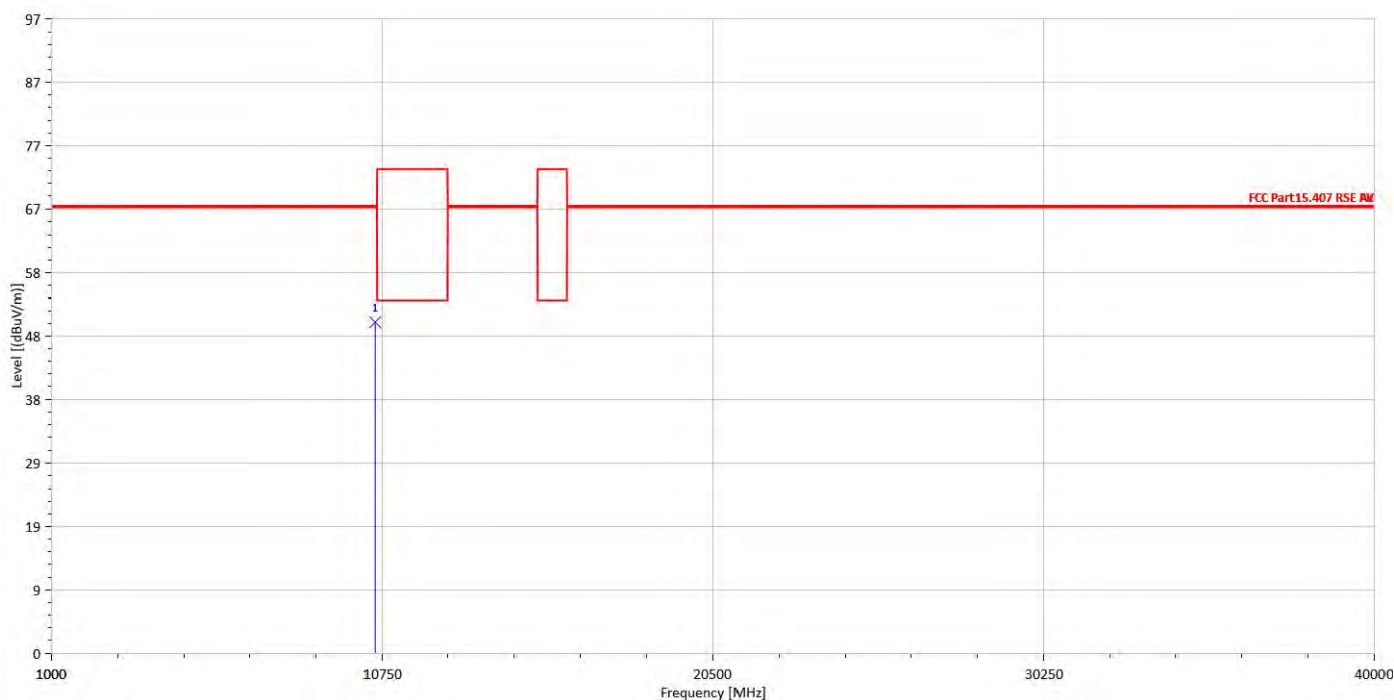
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# Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode :	802.11n40	Test Date :	2016/8/25
Fundamental Frequency :	5270 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.00	H	Peak	30.59	20.06	50.65	68.3	-17.65

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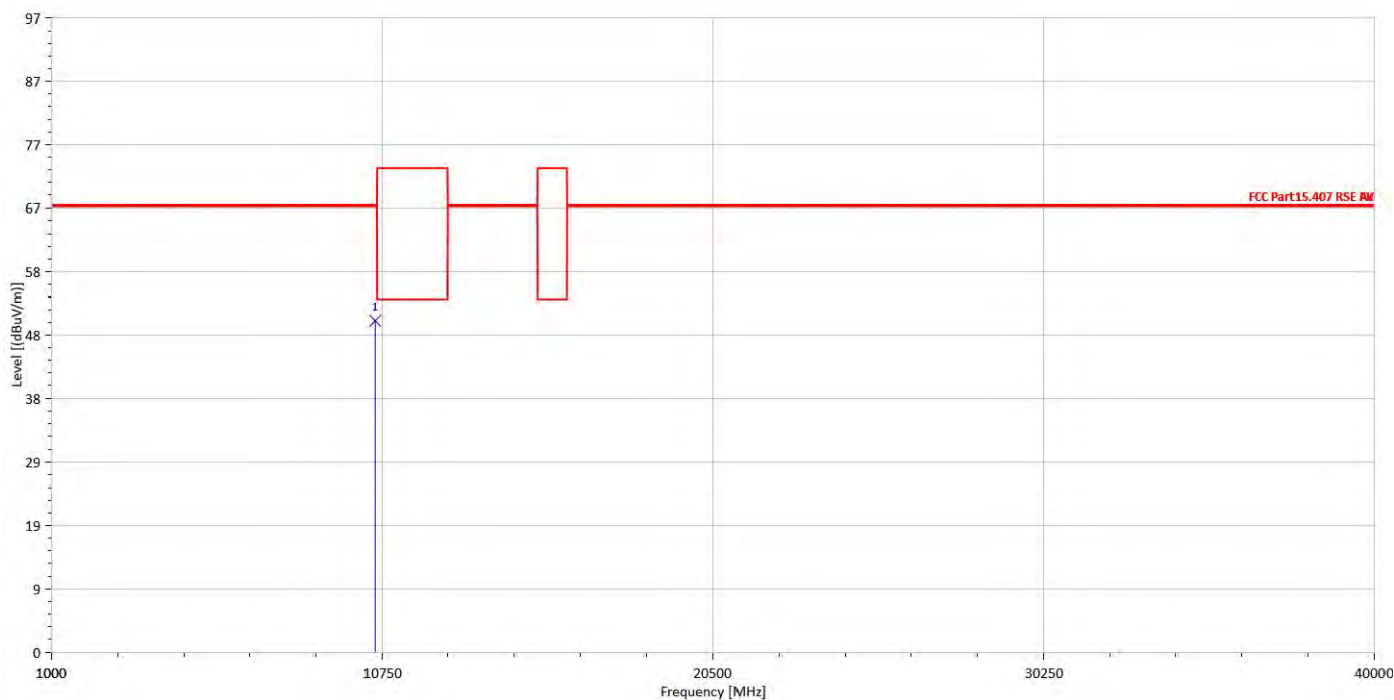
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Operation Mode : 802.11n40 Test Date : 2016/8/25  
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10540.00	H	Peak	30.66	20.06	50.72	68.3	-17.58

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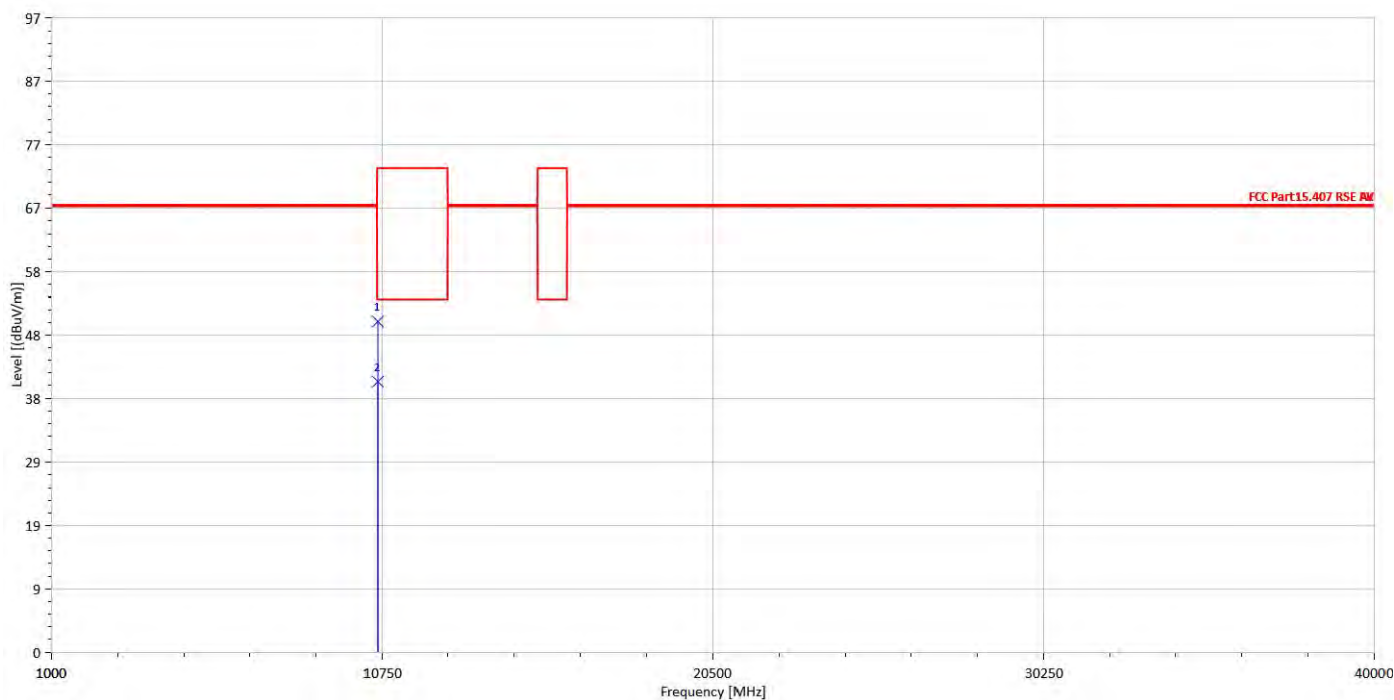
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Operation Mode : 802.11n40 Test Date : 2016/8/25  
 Fundamental Frequency : 5310 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10620.00	H	Peak	30.32	20.29	50.61	74	-23.39
10620.00	H	Average	21.04	20.29	41.33	54	-12.67

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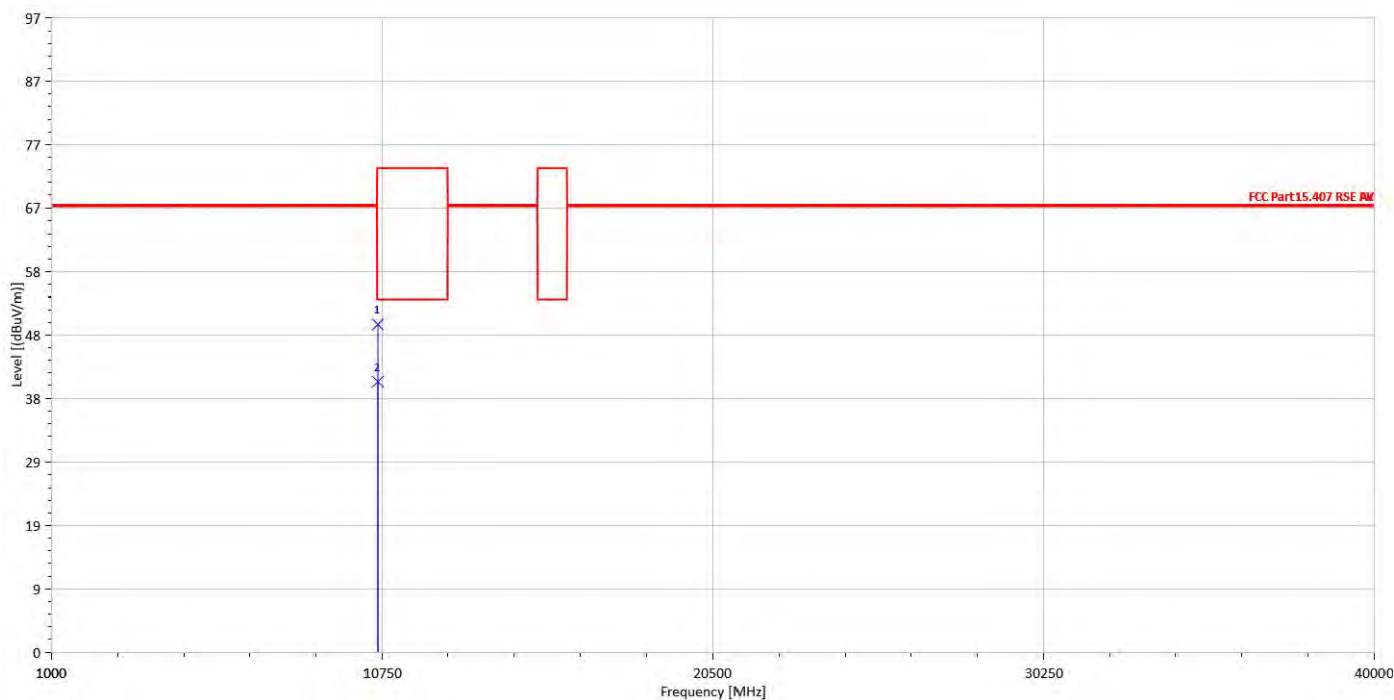
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5310 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.00	H	Peak	29.86	20.29	50.15	74	-23.85
10620.00	H	Average	21.03	20.29	41.32	54	-12.68

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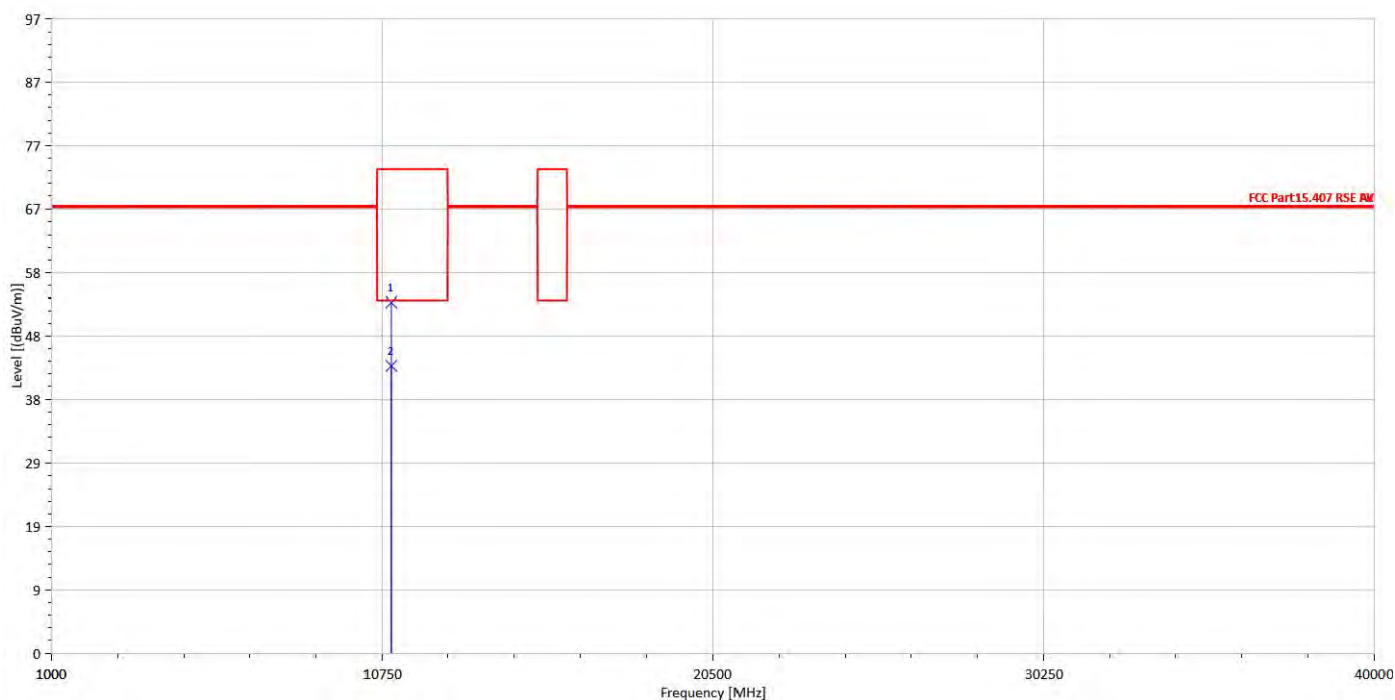
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode :	802.11n40	Test Date :	2016/8/25
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11020.00	H	Peak	30.79	22.90	53.69	74	-20.31
11020.00	H	Average	21.00	22.90	43.90	54	-10.10

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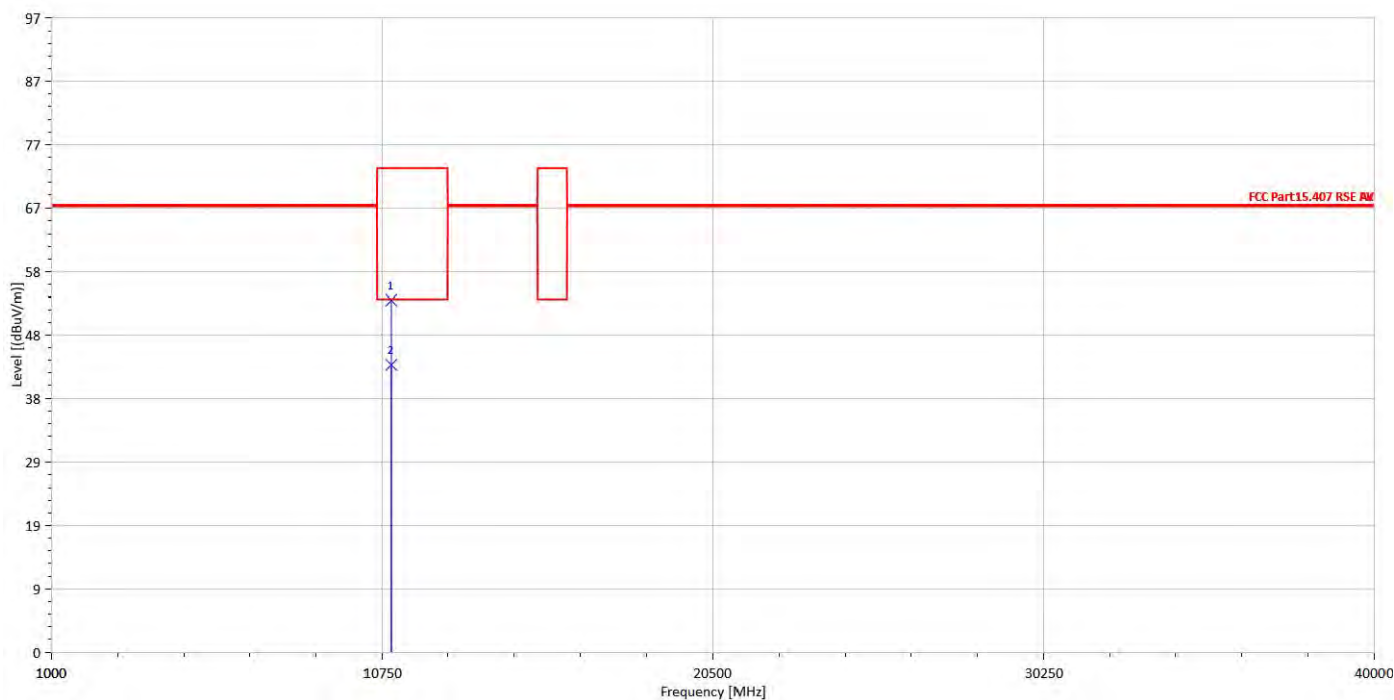
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5510 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11020.00	H	Peak	30.94	22.90	53.84	74	-20.16
11020.00	H	Average	21.01	22.90	43.91	54	-10.09

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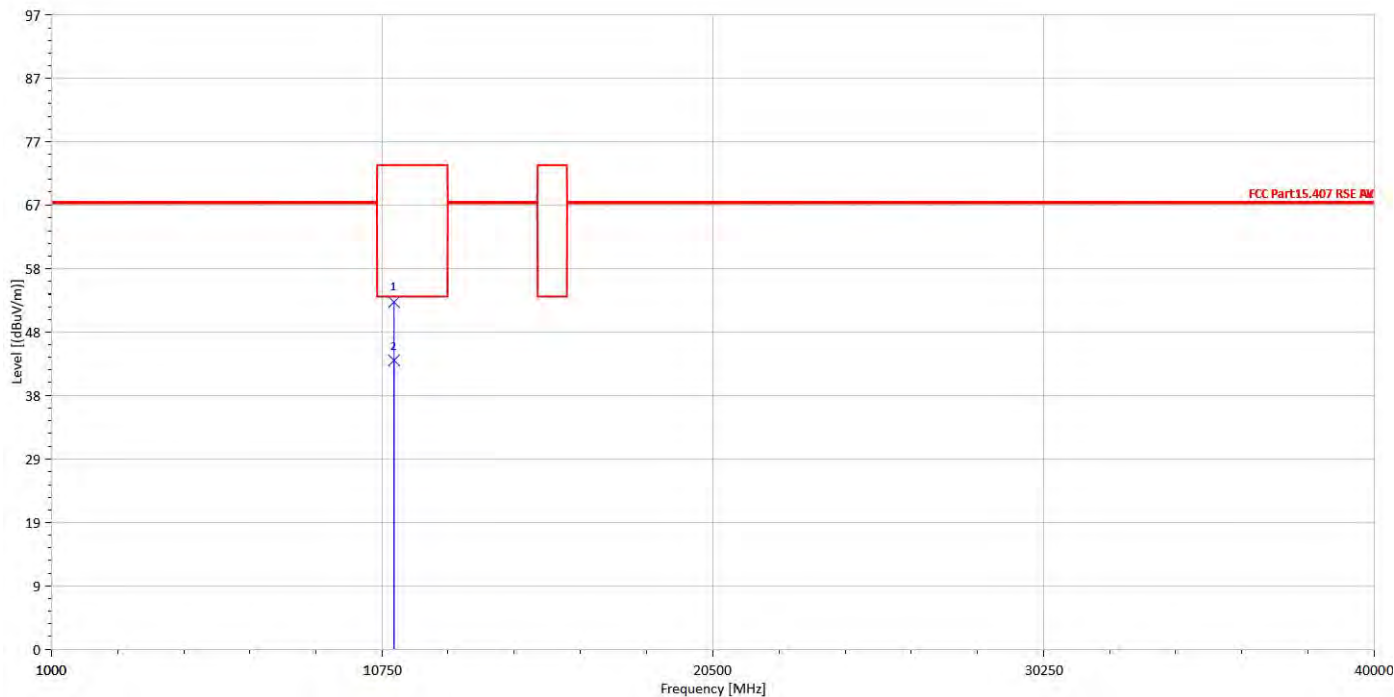
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Operation Mode : 802.11n40 Test Date : 2016/8/25  
Fundamental Frequency : 5550 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Mid Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11100.00	H	Peak	29.99	23.16	53.15	74	-20.85
11100.00	H	Average	20.99	23.16	44.15	54	-9.85

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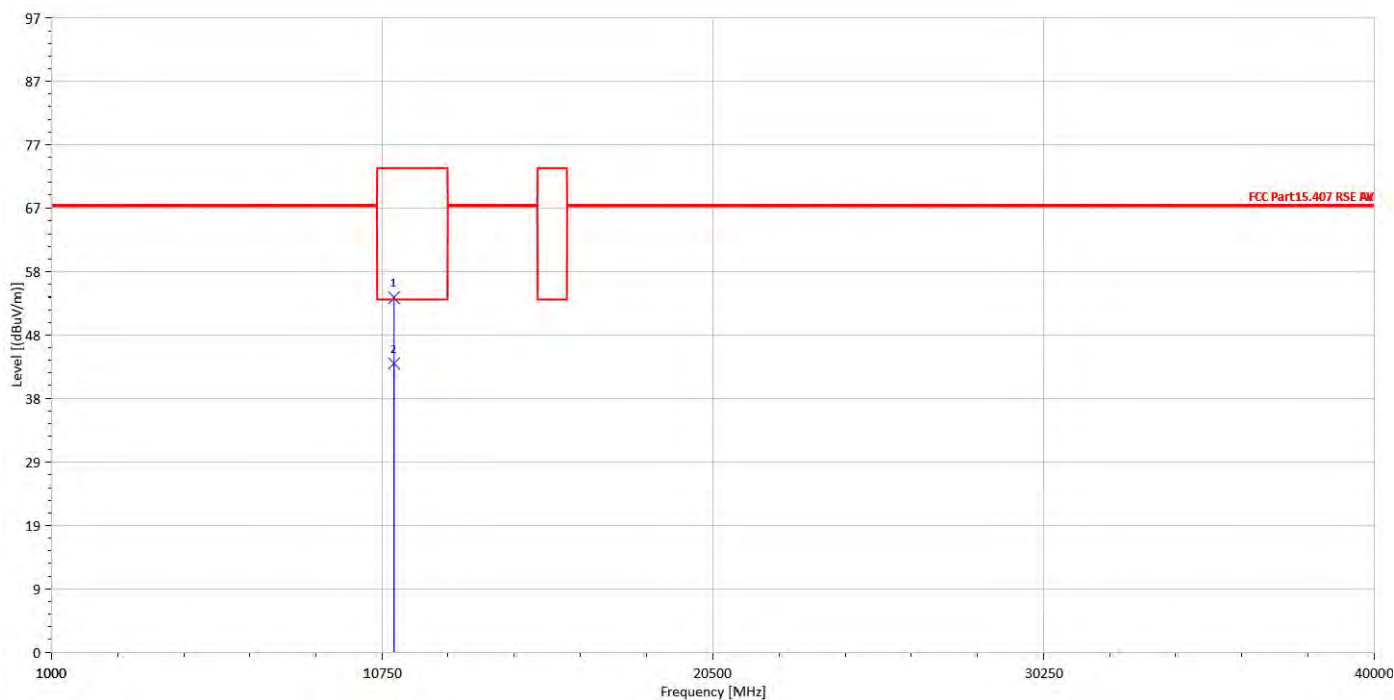
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5550 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Mid      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
11100.00	H	Peak	31.05	23.16	54.21	74	-19.79
11100.00	H	Average	20.98	23.16	44.14	54	-9.86

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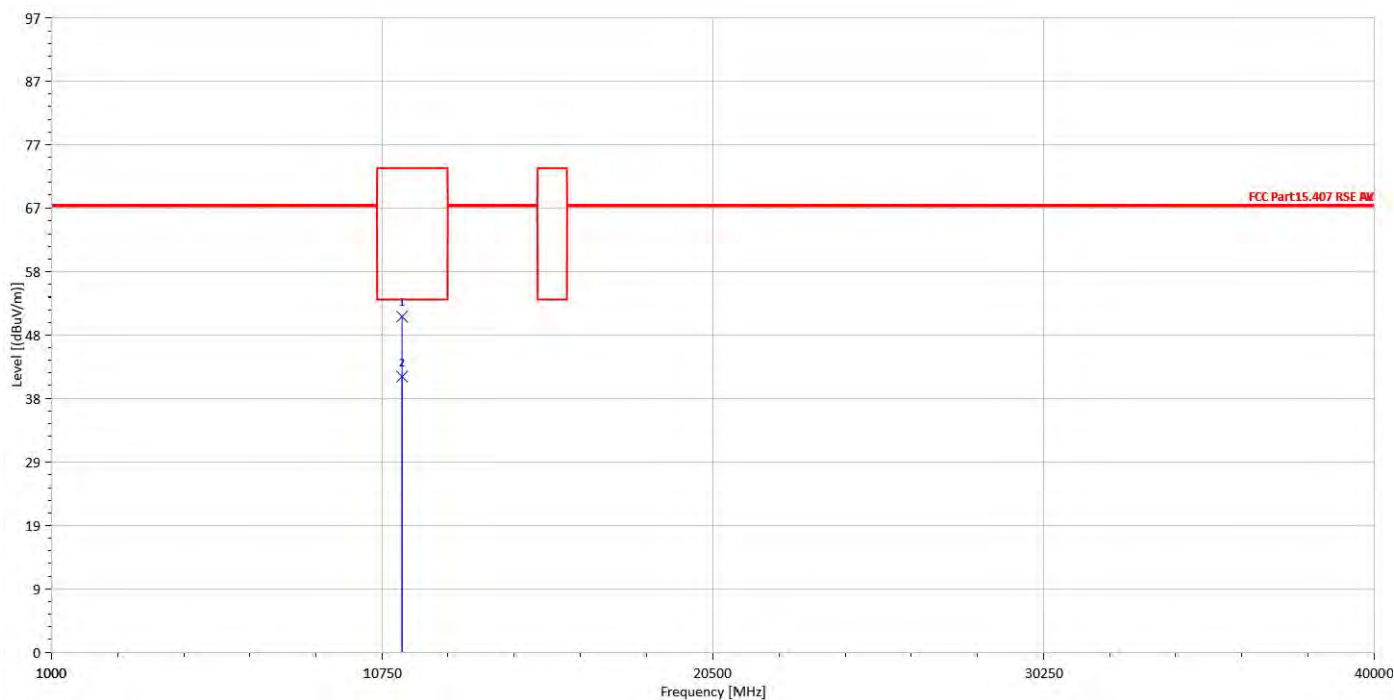
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Operation Mode : 802.11n40 Test Date : 2016/8/25  
 Fundamental Frequency : 5670 MHz Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High Test Engineer : Pony  
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11340.00	H	Peak	30.40	20.97	51.37	74	-22.63
11340.00	H	Average	21.14	20.97	42.11	54	-11.89

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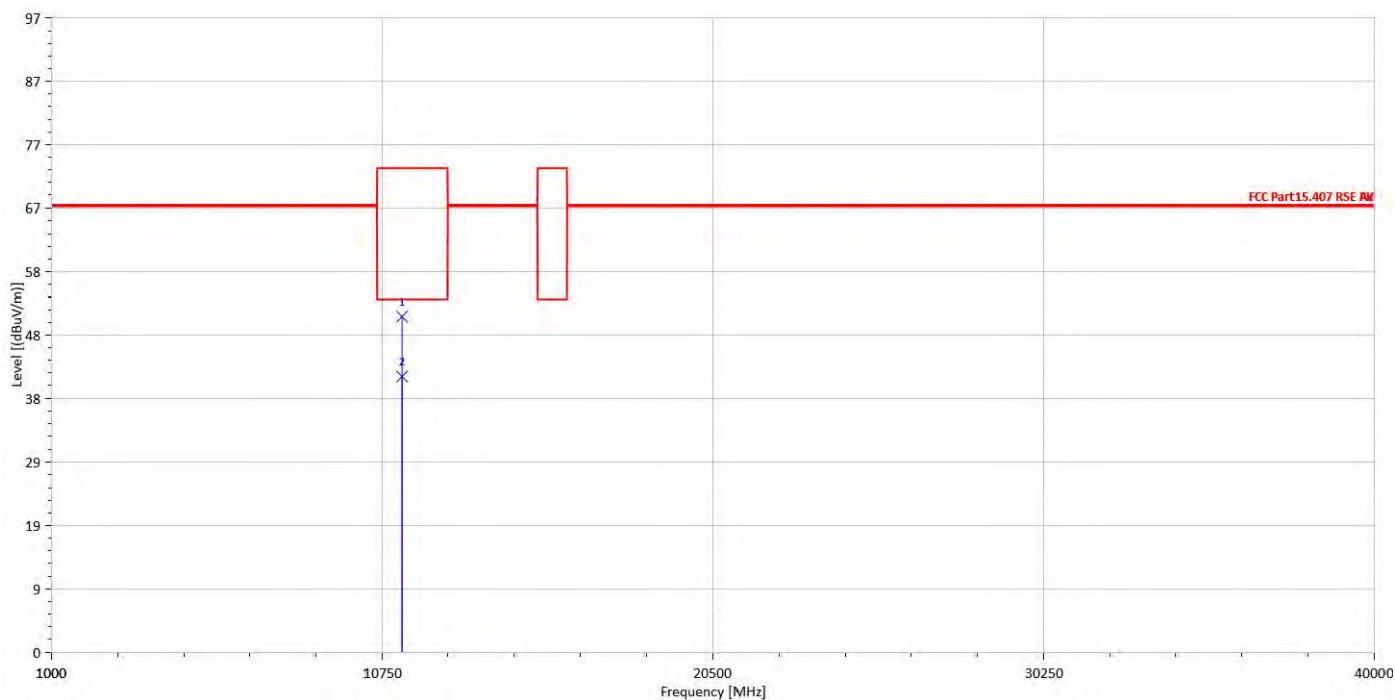
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5670 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11340.00	H	Peak	30.40	20.97	51.37	74	-22.63
11340.00	H	Average	21.15	20.97	42.12	54	-11.88

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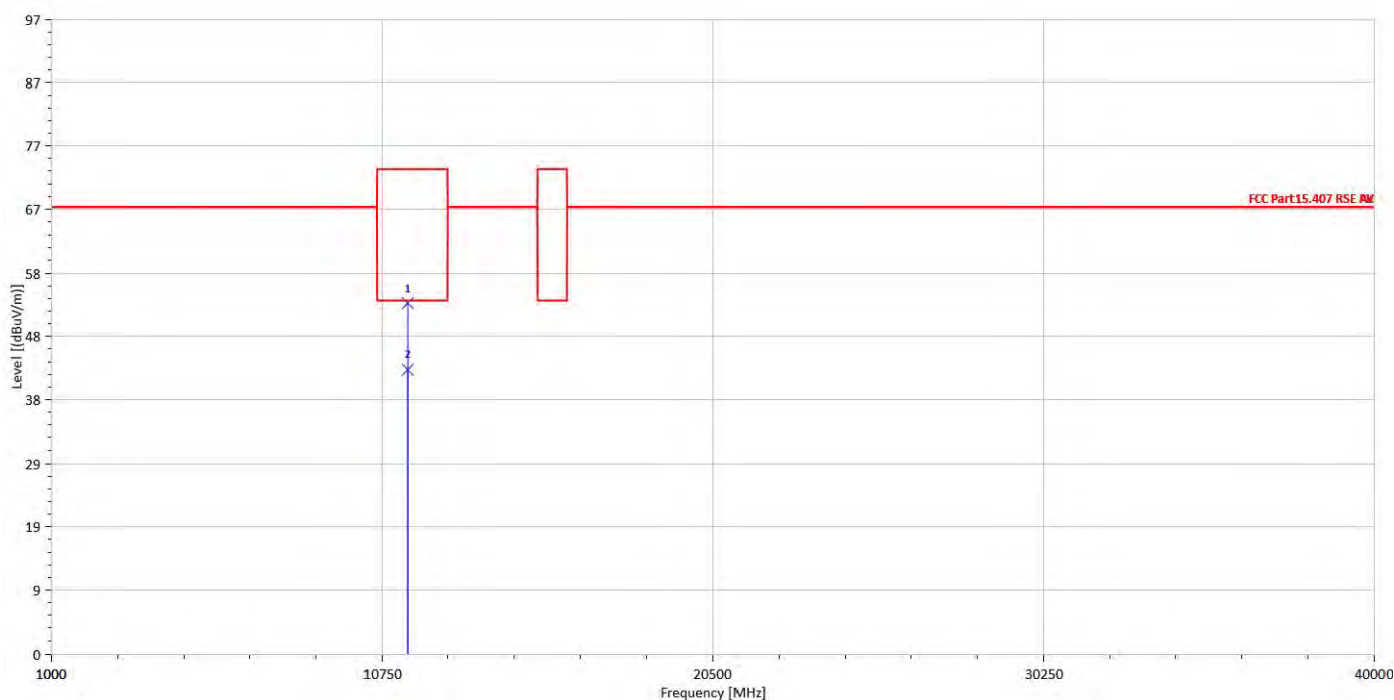
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## Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode :	802.11n40	Test Date :	2016/8/25
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
11510.00	H	Peak	31.44	22.17	53.60	74	-20.40
11510.00	H	Average	21.30	22.17	43.47	54	-10.53

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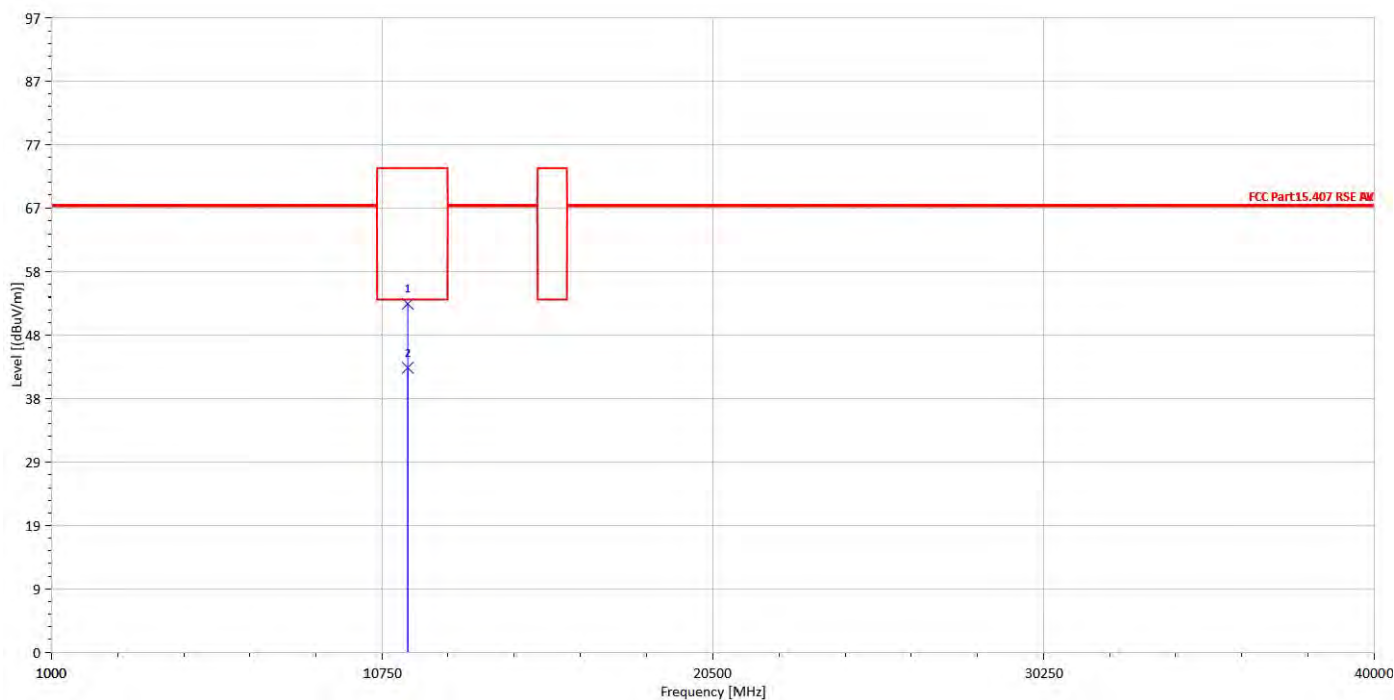
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5755 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH Low      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11510.00	H	Peak	31.17	22.17	53.34	74	-20.66
11510.00	H	Average	21.31	22.17	43.48	54	-10.52

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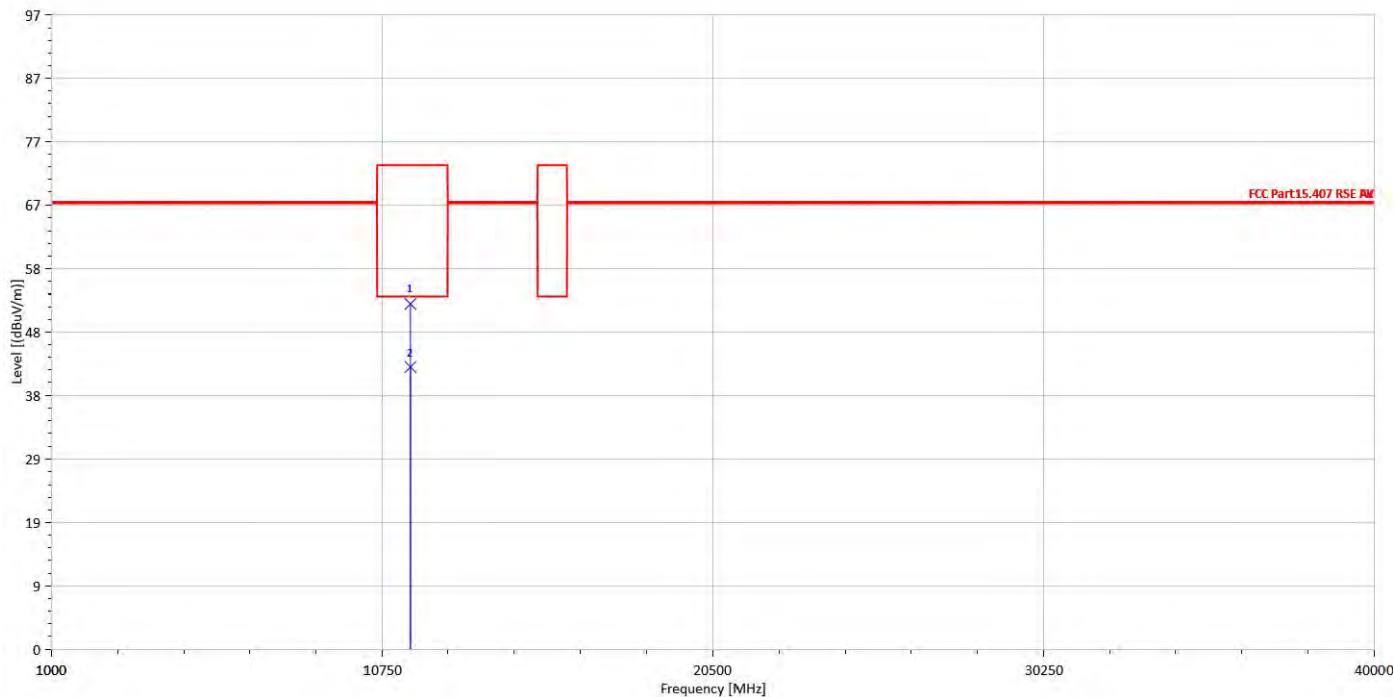
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Operation Mode : 802.11n40 Test Date : 2016/8/25  
Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH High Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11590.00	H	Peak	31.02	21.84	52.86	74	-21.14
11590.00	H	Average	21.28	21.84	43.12	54	-10.88

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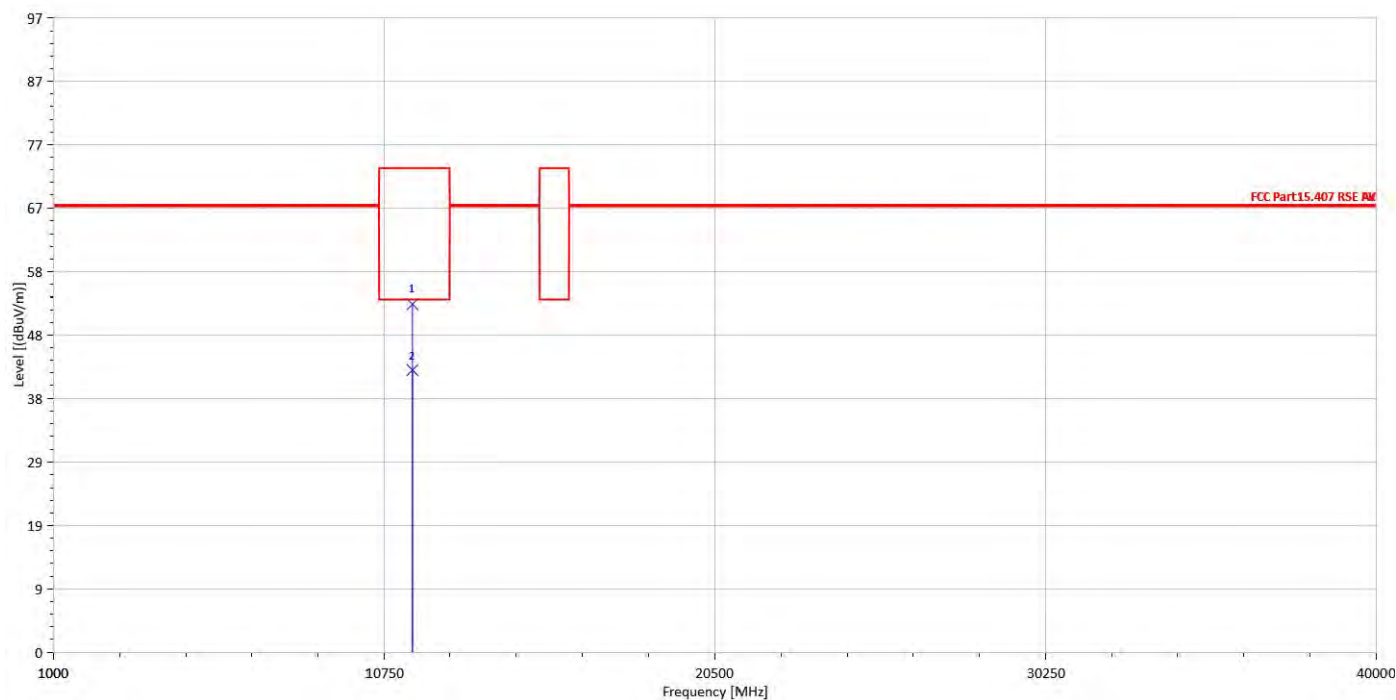
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Operation Mode : 802.11n40      Test Date : 2016/8/25  
 Fundamental Frequency : 5795 MHz      Temp. / Humi. : 22.7deg\_C/57RH  
 Operation Band : Tx CH High      Test Engineer : Pony  
 EUT Pol. : E2      Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11590.00	H	Peak	31.44	21.84	53.28	74	-20.72
11590.00	H	Average	21.27	21.84	43.11	54	-10.89

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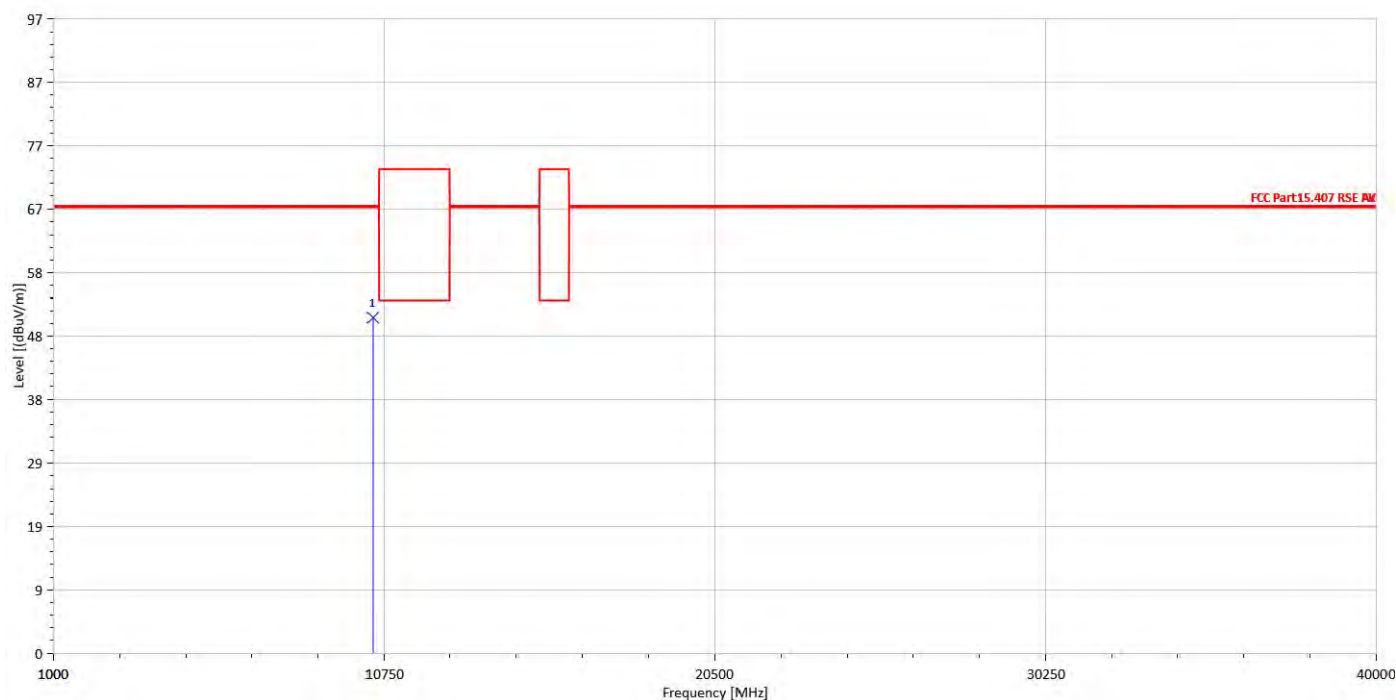
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10420.00	H	Peak	30.69	20.67	51.36	68.3	-16.94

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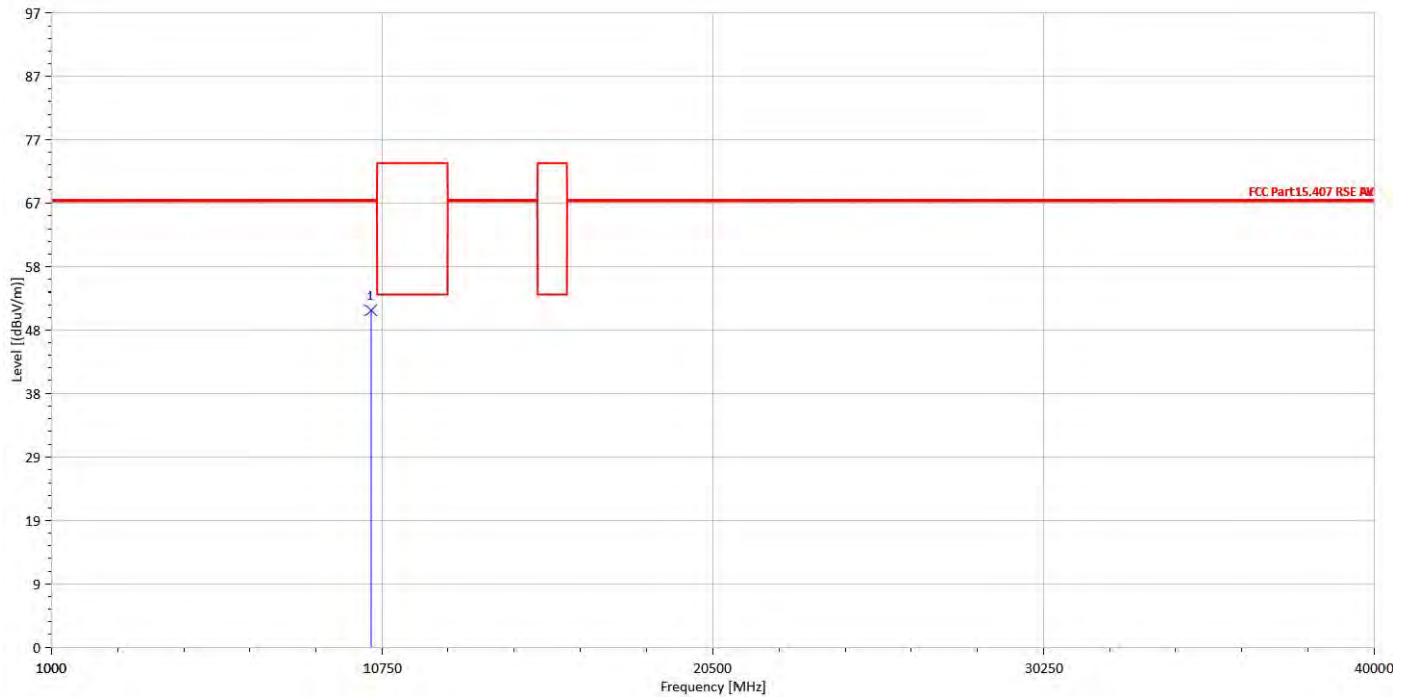
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Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
10420.00	H	Peak	30.90	20.67	51.57	68.3	-16.73

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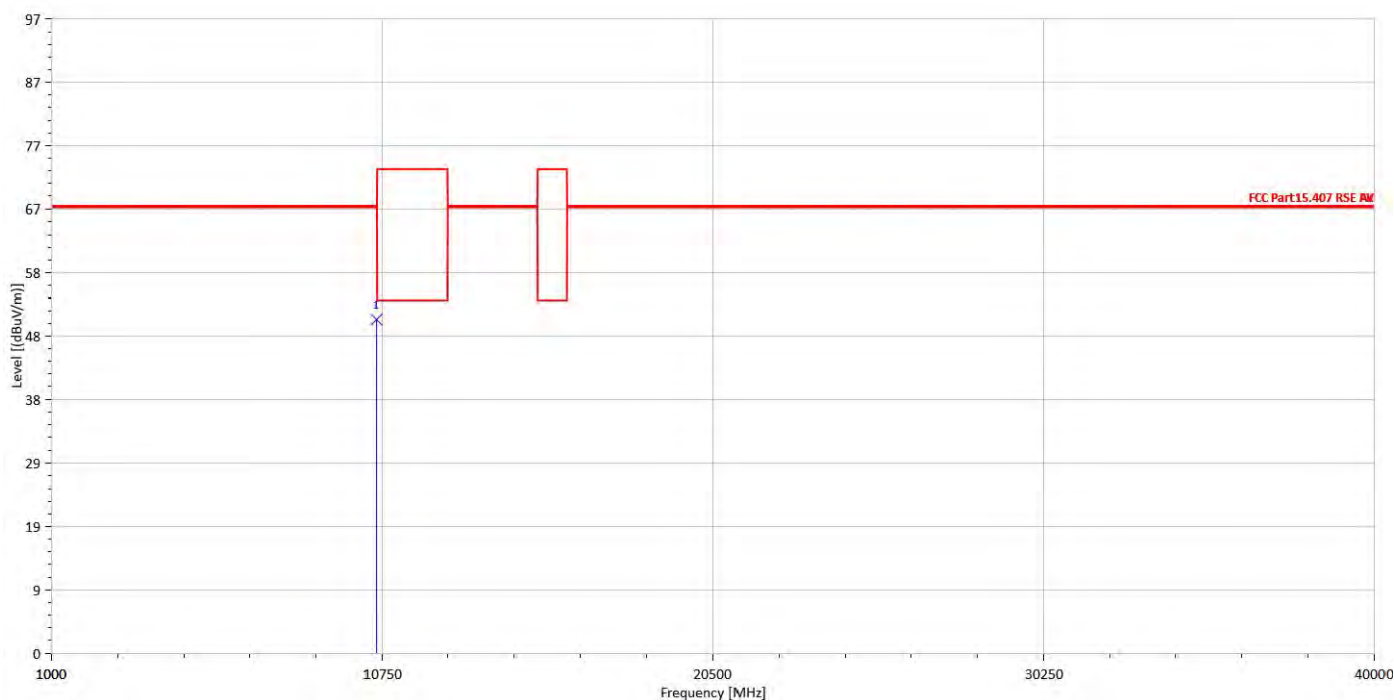
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# Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5250~5350 MHz

Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
10580.00	H	Peak	30.94	20.12	51.06	68.3	-17.24

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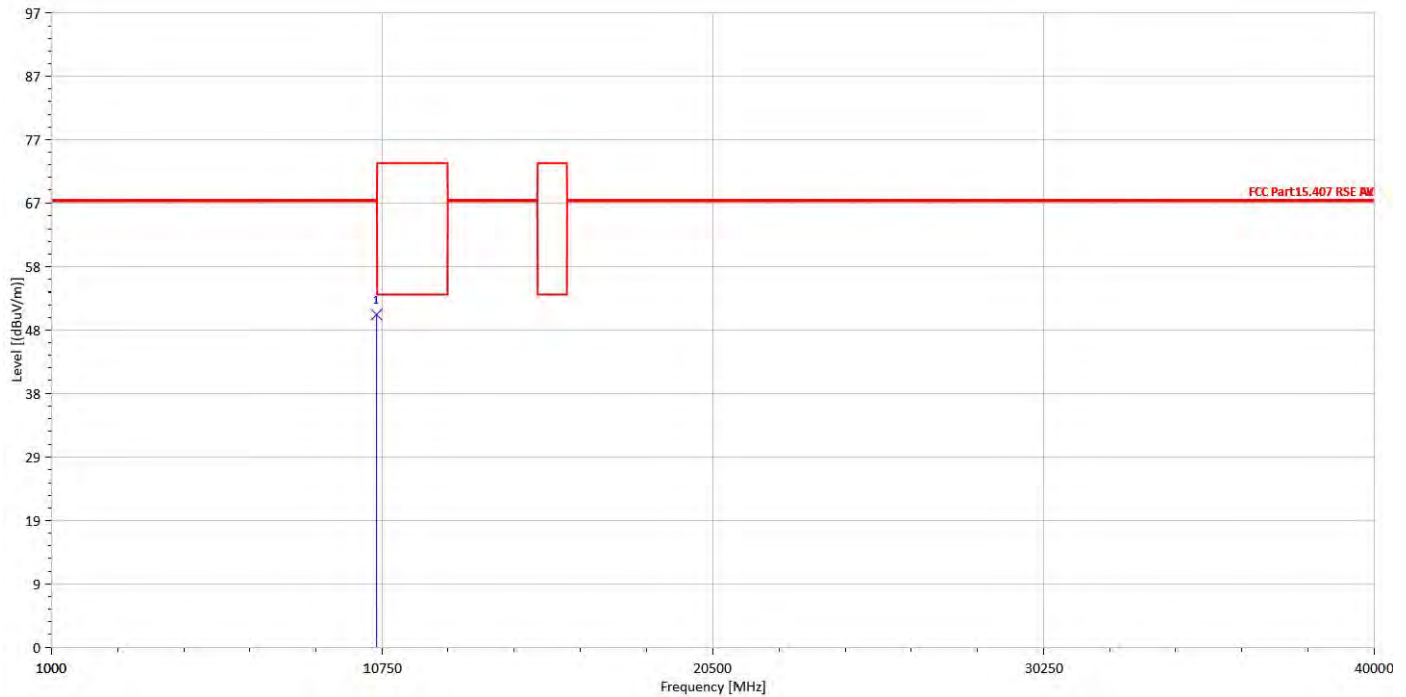
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Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10580.00	H	Peak	30.79	20.12	50.91	68.3	-17.39

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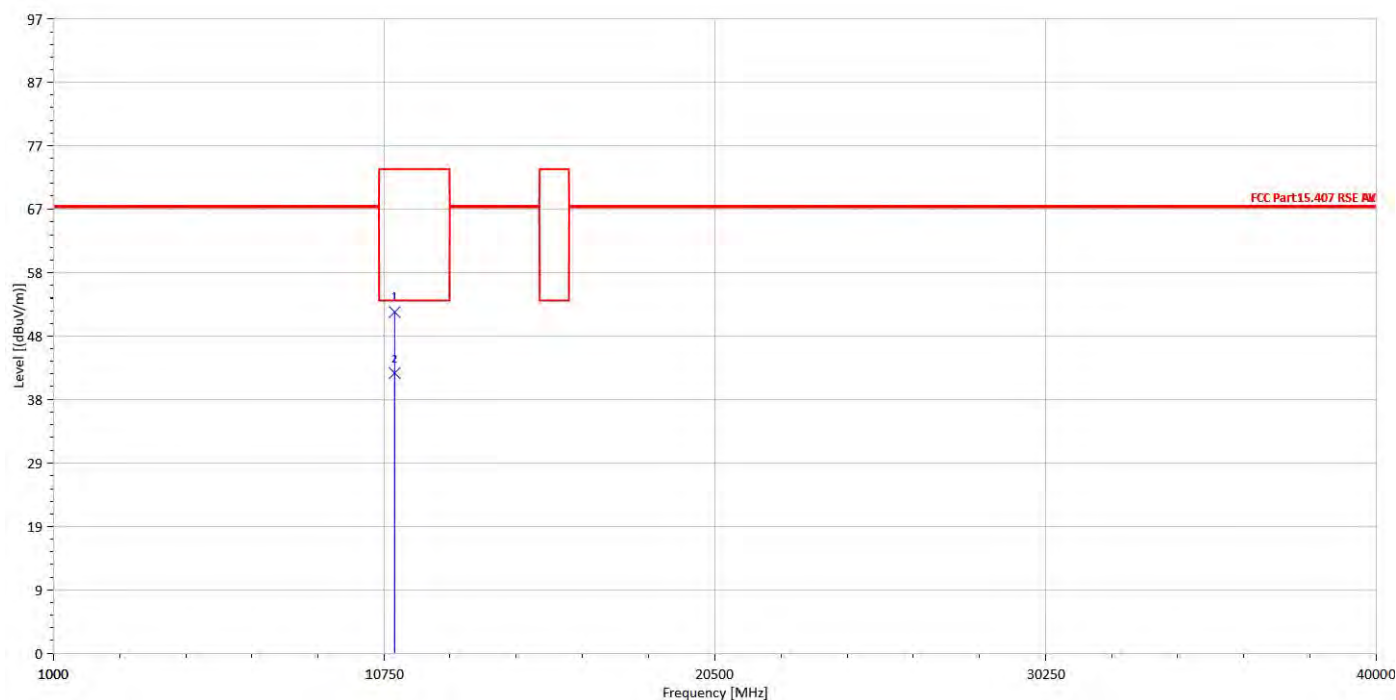
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5470~5725 MHz

Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @ 3m dBμV/m	Margin dB
11060.00	H	Peak	30.39	21.83	52.22	74	-21.78
11060.00	H	Average	20.98	21.83	42.81	54	-11.19

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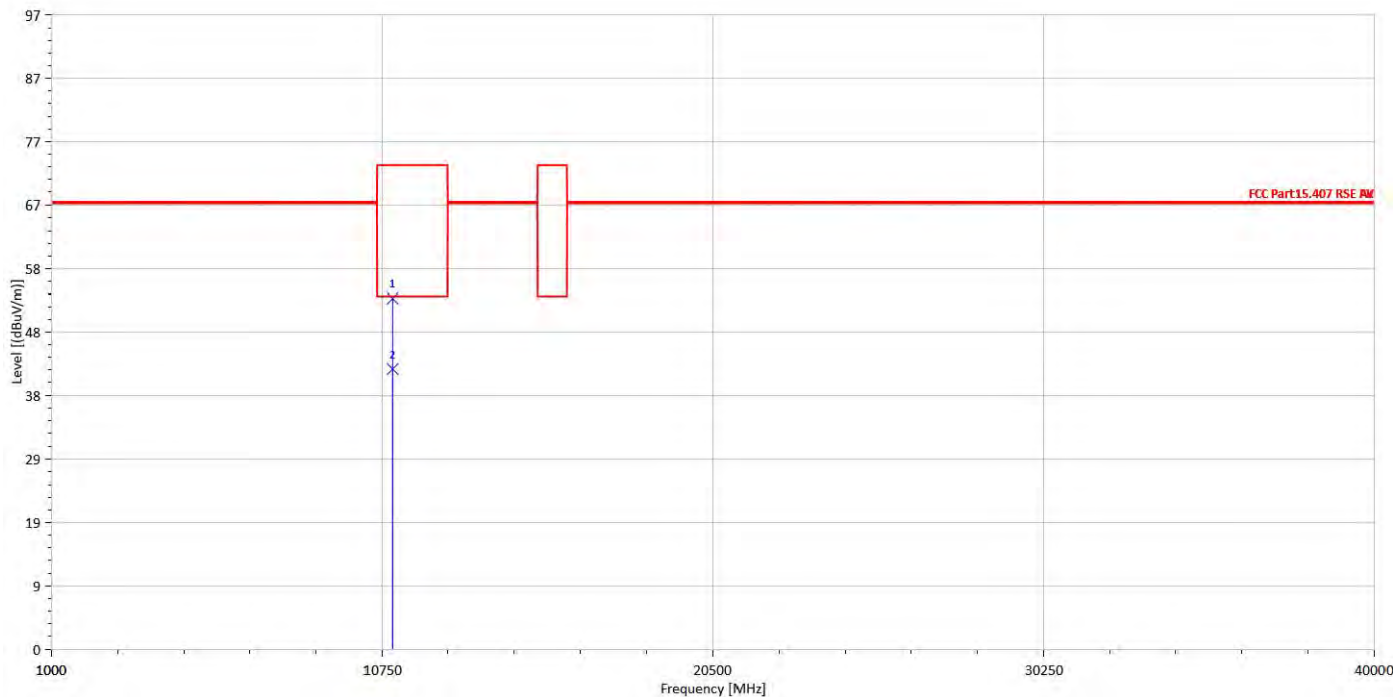
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Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
11060.00	H	Peak	31.83	21.83	53.66	74	-20.34
11060.00	H	Average	20.98	21.83	42.81	54	-11.19

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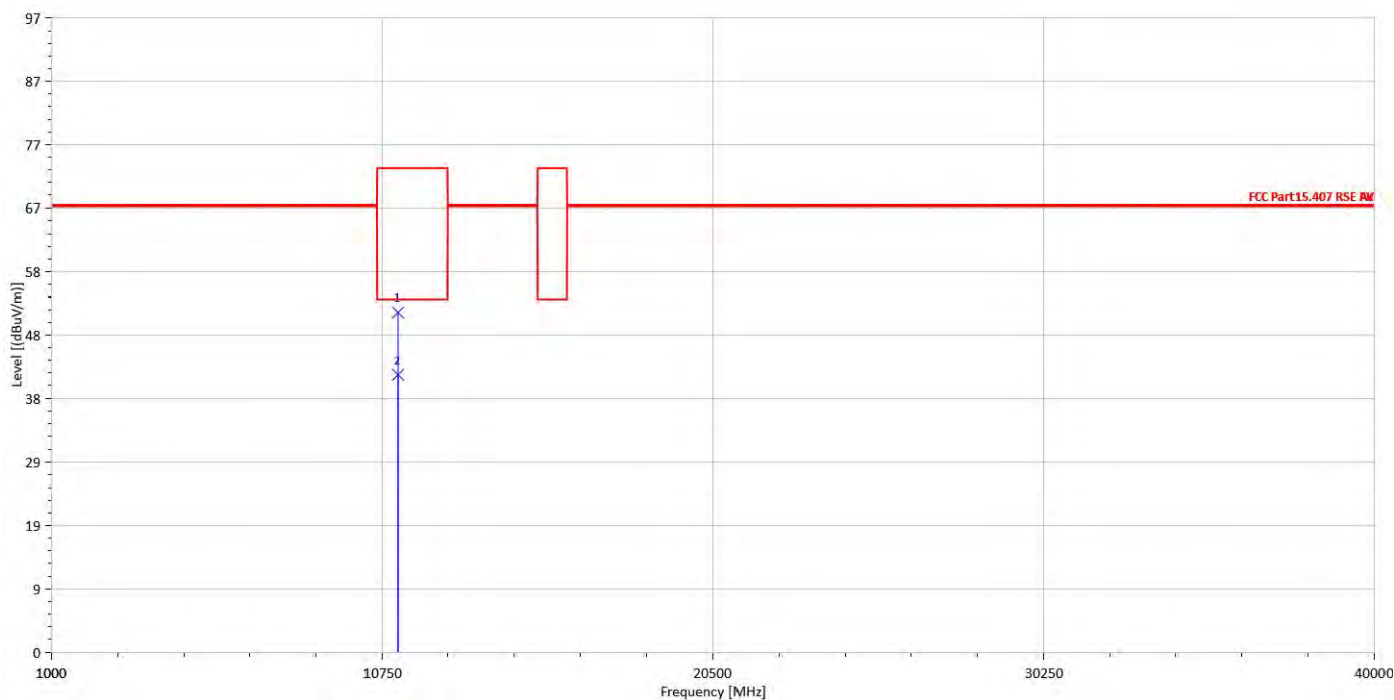
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Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Peak	30.67	21.32	51.99	74	-22.01
11220.00	H	Average	21.07	21.32	42.39	54	-11.61

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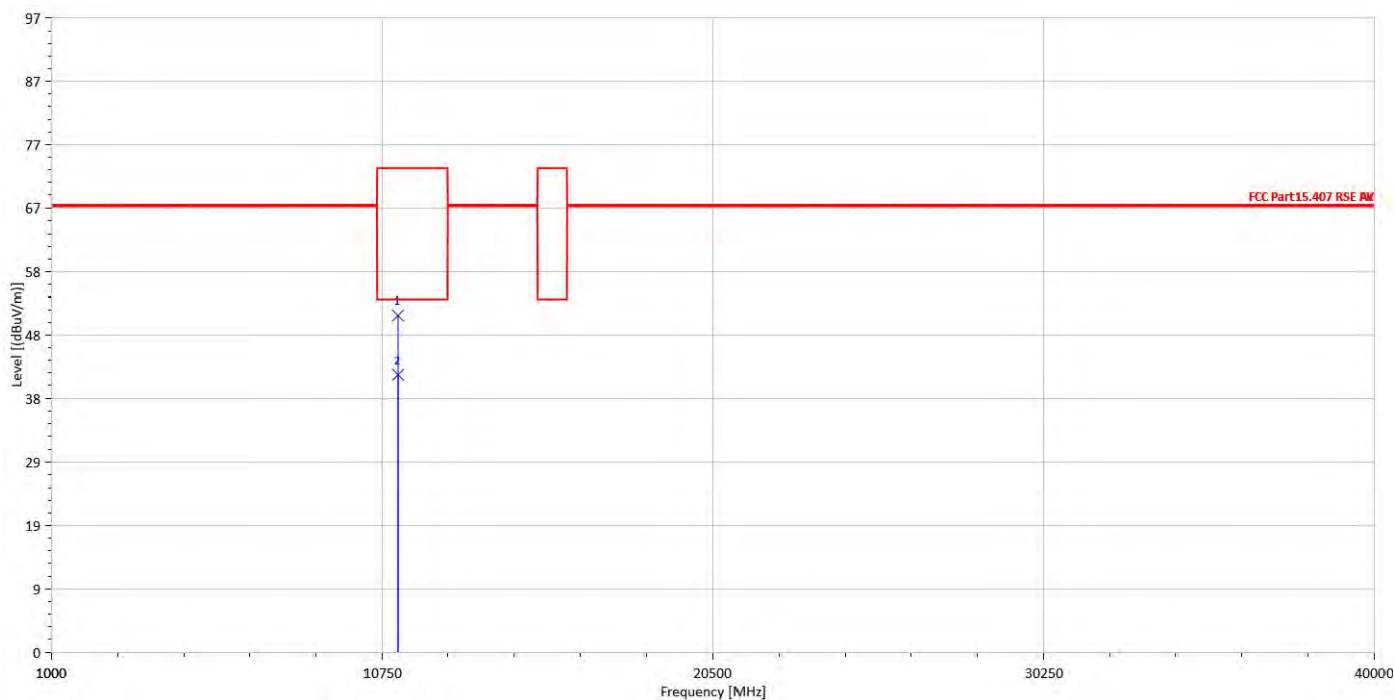
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Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5610 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11220.00	H	Peak	30.20	21.32	51.52	74	-22.48
11220.00	H	Average	21.08	21.32	42.40	54	-11.60

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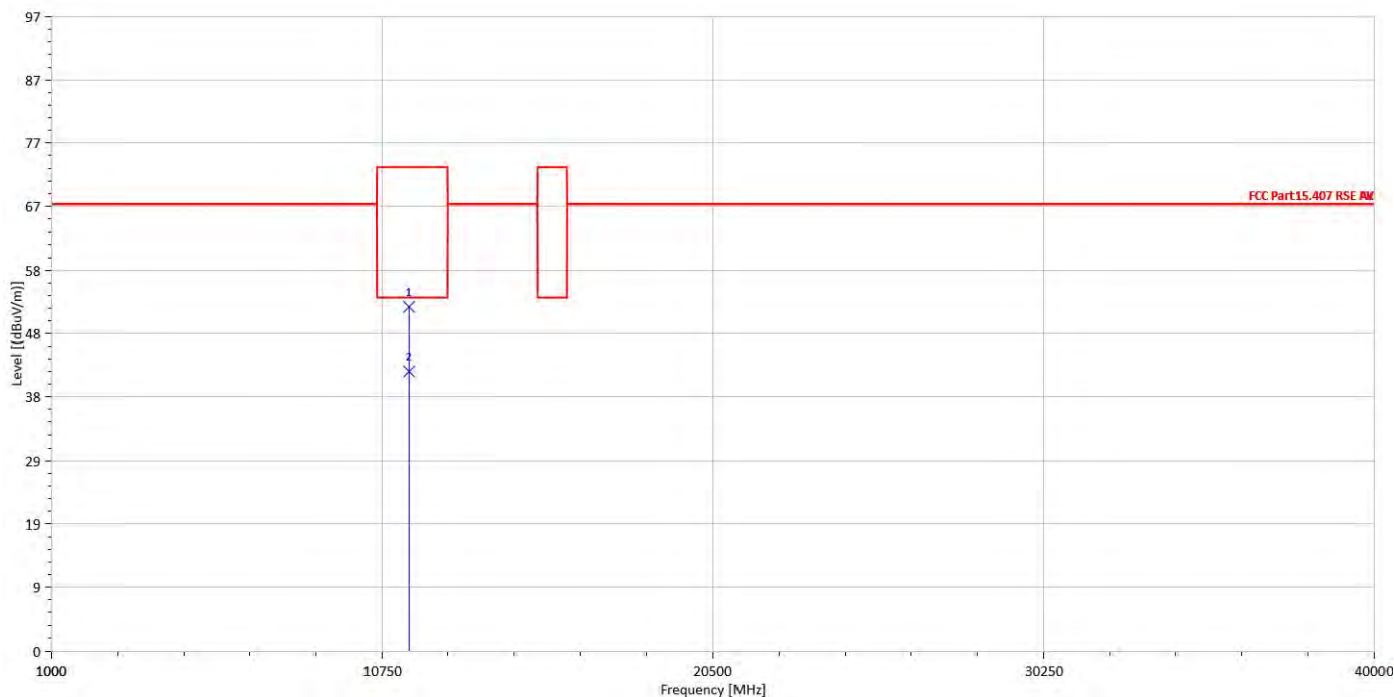
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## Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Mode :	802.11ac80	Test Date :	2016/8/25
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@ 3m	dB
11550.00	H	Peak	31.16	21.41	52.58	74	-21.42
11550.00	H	Average	21.31	21.41	42.72	54	-11.28

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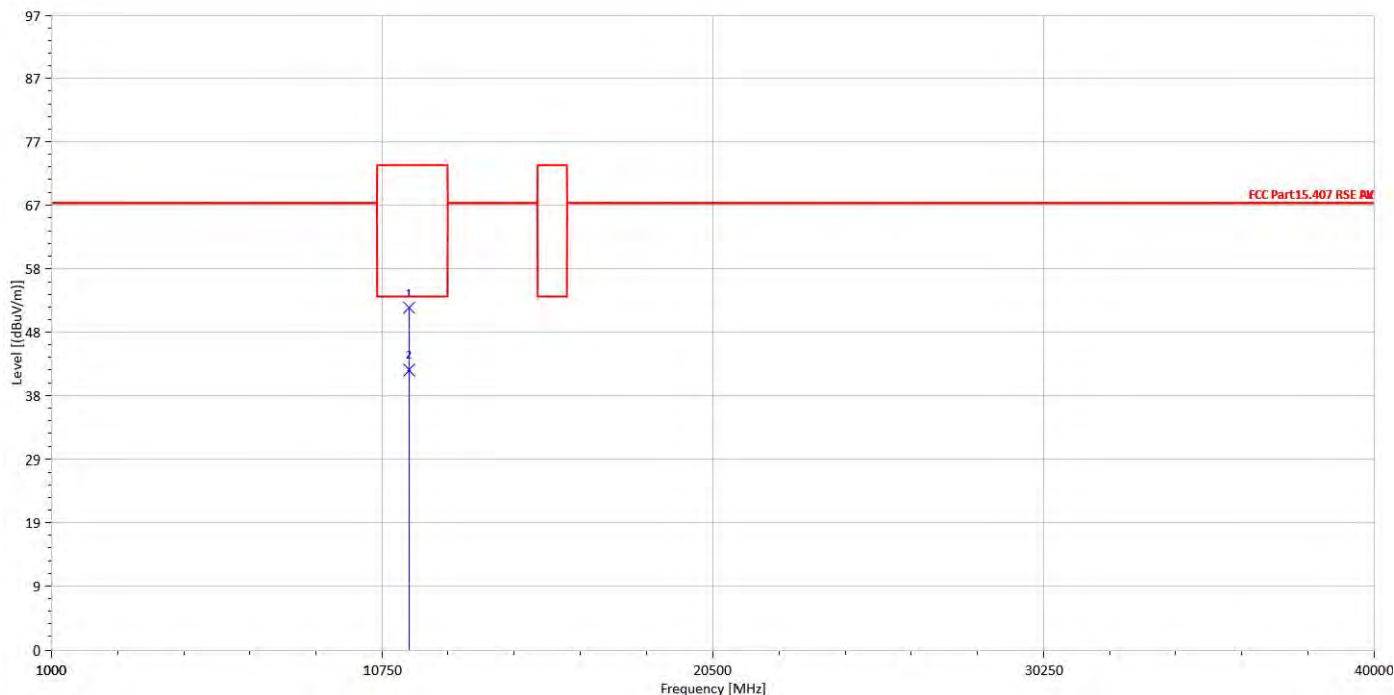
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Operation Mode : 802.11ac80 Test Date : 2016/8/25  
Fundamental Frequency : 5775 MHz Temp. / Humi. : 22.7deg\_C/57RH  
Operation Band : Tx CH Low Test Engineer : Pony  
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @ 3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
11550.00	H	Peak	30.87	21.41	52.28	74	-21.72
11550.00	H	Average	21.31	21.41	42.72	54	-11.28

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