ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT

OF

Product Name:	**Dual-band Wireless Gigabit Router**
Brand Name:	**ASUS**
Model No.:	**RT-AC85U**
Model Difference:	**N/A**
FCC ID:	**NDD9568791701**
Report No.:	**ER/2017/30012**
Issue Date:	**May 05, 2017**
FCC Rule Part:	**§15.407**
Prepared for:	**EDIMAX TECHNOLOGY CO., LTD.** **No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan**
Prepared by:	**SGS Taiwan Ltd.** **Electronics & Communication Laboratory** **No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803**

ilac-MRA TAF Testing Laboratory 0513	***Note:*** *This report shall not be reproduced except in full, without the written approval of SGS Taiwan Ltd. This document may be altered or revised by SGS Taiwan Ltd. personnel only, and shall be noted in the revision section of the document.*

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VERIFICATION OF COMPLIANCE

Applicant:	EDIMAX TECHNOLOGY CO., LTD. No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New Taipei City, Taiwan
Product Name:	Dual-band Wireless Gigabit Router
Brand Name:	ASUS
Model No.:	RT-AC85U
Model Difference:	N/A
FCC ID:	NDD9568791701
File Number:	ER/2017/30012
Date of Test:	Mar. 02, 2017 ~ May 05, 2017
Date of EUT Received:	Mar. 02, 2017

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:	Louis Chen	***Date:***	May 05, 2017
	Louis Chen / Engineer		
Prepared By:	Yuri Tsai	***Date:***	May 05, 2017
	Yuri Tsai / Clerk		
Approved By:	Jim Chang	***Date:***	May 05, 2017
	Jim Chang / Asst. Manager		

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Revision History

Report Number	Revision	Description	Issue Date
ER/2017/30012	Rev.00	Initial creation of document	May 05, 2017

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Dual-band Wireless Gigabit Router	
Brand Name:	ASUS	
Model No.:	RT-AC85U	
Model difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	12Vdc from AC/DC Adapter	
	Adapter:	Model No.: DSA-24PFM-12 FUS 120200, Supplier: DVE

WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	27.78dBm	OFDM
	5725-5850	5	28.74 dBm	
11n / ac_20M	HT20 / VHT20 5150~5250	4	HT: 28.97 dBm	OFDM
	HT20 / VHT20 5725-5850	5	HT: 28.87 dBm	
11n / ac_40M	HT40 / VHT40 5150~5250	2	HT: 28.95 dBm	OFDM
	HT40 / VHT40 5725-5850	2	HT: 29.08 dBm	
11ac_80M	VHT80 5150~5250	1	20.15 dBm	OFDM
	VHT80 5725-5850	1	23.15 dBm	

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Antenna Designation	PCB Antenna, Supplier: Walsin Technology Corporation 1.P/N: RFPCA401906IMLBV01, 5GHz Gain: 4.13dBi (5150MHz-5850MHz) 2. P/N: RFPCA401913IMLBV01, 5GHz Gain: 4.56dBi (5150MHz-5850MHz) 3. P/N: RFPCA441604IMLBV01, 5GHz Gain: 4.58dBi (5150MHz-5850MHz) (CDD) 5.75dBi (5150MHz-5850MHz) (Beamforming) 4.P/N: RFPCA461624IMLBV01 5GHz Gain: 3.97dBi (5150MHz-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 – 144.4Mbps 802.11 n_40MHz: 13.5 – 300Mbps 802.11 ac_20MHz: 6.5 –144.4Mbps 802.11 ac_40MHz: 13.5 –300Mbps 802.11 ac_80MHz: 29.3 – 650Mbps

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules

FCC KDB 662911 D01 Multiple Transmitter Output

FCC KDB 644545 D03 Guidance for IEEE 802.11ac v01

ANSI C63.10:2013

Note:

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

1.3 Test Facility

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

FCC Registration Numbers are: 509634

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Following shows an offset computation example with cable loss 10dB, and 10dB attenuator.
MIMO mode offset
= RF cable loss (dB)+ attenuation factor(dB)+ 10 log(N_{ANT}) dB =20dB)

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2.5 Configuration of Tested System

Fig. 2-1 Conducted (Antenna Port) configuration

Fig. 2-2 Radiated Emission configuration

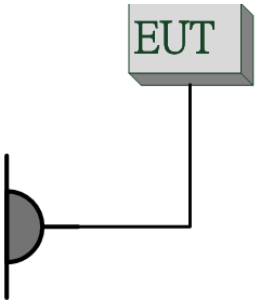

Table 2-1 Equipment Used in Tested System

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

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
42	5210 MHz

Operated band in 5725 MHz ~5850 MHz:

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

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

2 channels are provided for 802.11n_HT40, 802.11ac_VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 MHz

1 channel is provided for 802.11ac_VHT80

CHANNEL	FREQUENCY
155	5775 MHz

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4.2 The Worst Test Modes and Channel Details

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MAIN
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS24	MIMO
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS24	MIMO
802.11n_HT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS0	MIMO

Remark: Included CDD and Beam Forming Mode test data.

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

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ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5190~5230	38 to 46	38,46	OFDM	MCS24	MIMO
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11n_HT20 802.11ac_VHT20				OFDM	MCS24	MIMO
802.11n_HT40 802.11ac_VHT40	5755~5795	151 to 159	151,159	OFDM	MCS24	MIMO
802.11ac_VHT80	5775	155	155	OFDM	MCS24	MIMO

Remark: Only CDD Mode test data was reported.

Directional gain (MIMO)

The Tx transmission to construct MIMO operation is cyclic delay diversity, and the following deduction to obtain the array gain of MIMO operation is based on the approach given by KDB 662911 D01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \ldots, G_N$ dBi

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \ldots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : **Vertical**)	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 : **Horizontal**)	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	ESCI7	100760	05/10/2016	05/09/2017
LISN	SCHWARZBECK	NSLK 8127	8127-649	05/16/2016	05/15/2017
LISN	MESS TEC	FCC-LISN-50/250-25-2-01	4034	05/16/2016	05/15/2017
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2016	11/25/2017

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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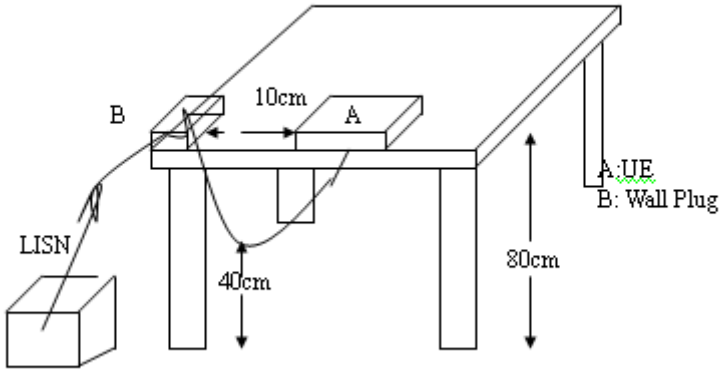
6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	operation mode	Test By:	Aken Huang

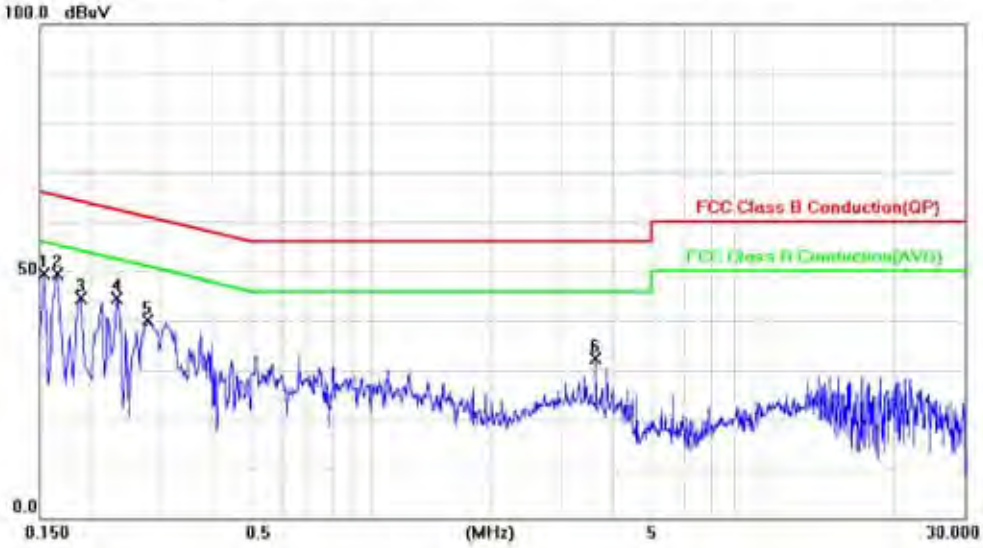
Site Conduction Room
Limit: FCC Class B Conduction(QP)
Mode: Operation mode
Note: Switching Adapter DSA-24PFM-12 FUS 120200

Phase: L1
Power: AC 120V/60Hz

Temperature: 20 ℃
Humidity: 58 %

Conducted Emission

File: 經寶_AP7465CE-VTR Data: #3 Date: 2017/3/21 Time: 下午 04:41:38



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1540	49.39	0.10	49.49	65.78	-16.29	peak	
2	*	0.1660	49.27	0.10	49.37	65.16	-15.79	peak	
3		0.1900	44.59	0.10	44.69	64.04	-19.35	peak	
4		0.2340	44.53	0.10	44.63	62.31	-17.68	peak	
5		0.2780	39.98	0.11	40.09	60.88	-20.79	peak	
6		3.6340	32.24	0.24	32.48	56.00	-23.52	peak	

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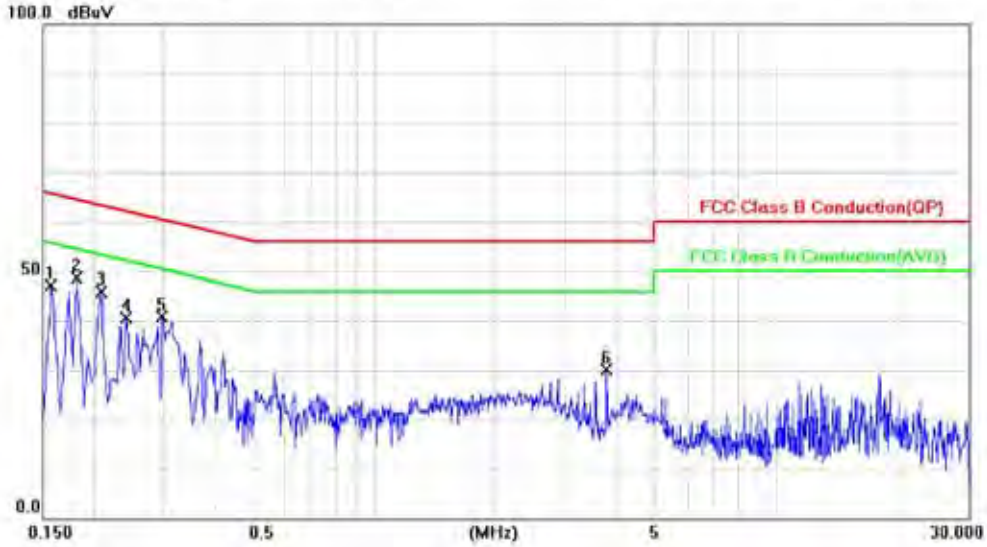
Site: Conduction Room | Phase: N | Temperature: 20 ℃
Limit: FCC Class B Conduction(QP) | Power: AC 120V/60Hz | Humidity: 58 %
Mode: Operation mode
Note: Switching Adapter : DSA-24PFM-12 FUS 120200

Conducted Emission

File :[illegible]_AP7465CE-VTR Data :#4 Date: 2017/3/21 Time: [illegible] 04:43:05



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1580	47.02	0.07	47.09	65.57	-18.48	peak	
2	*	0.1820	48.62	0.08	48.70	64.39	-15.69	peak	
3		0.2100	45.86	0.08	45.94	63.21	-17.27	peak	
4		0.2420	40.59	0.08	40.67	62.03	-21.36	peak	
5		0.2980	40.78	0.09	40.87	60.30	-19.43	peak	
6		3.7860	29.84	0.23	30.07	56.00	-25.93	peak	

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) =10*log (1/Duty Cycle
802.11a	80.66	0.93
802.11n_20	52.04	2.84
802.11n_40	37.73	4.23
802.11ac_80	26.76	5.73

Duty Cycle Factor: 10 * log(1/0.9999) = 0
Duty Cycle Factor: 10 * log(1/0.9999) = 0
Duty Cycle Factor: 10 * log(1/0.9999) = 0
Duty Cycle Factor: 10 * log(1/0.9999) = 0

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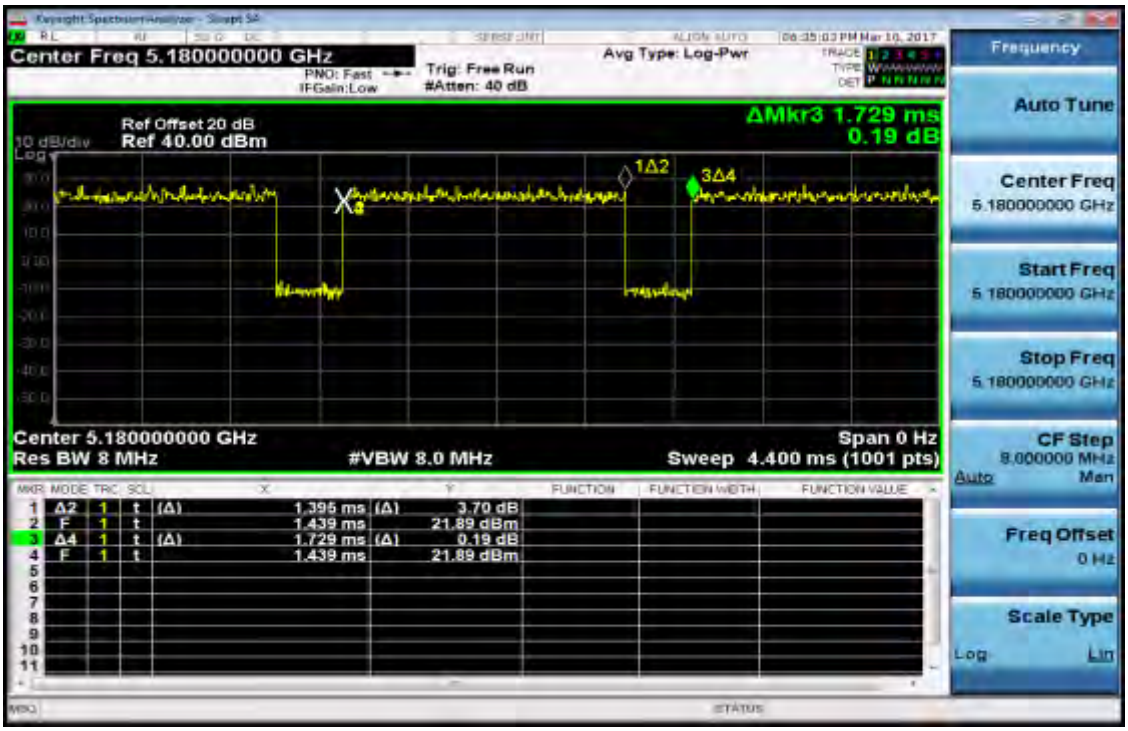
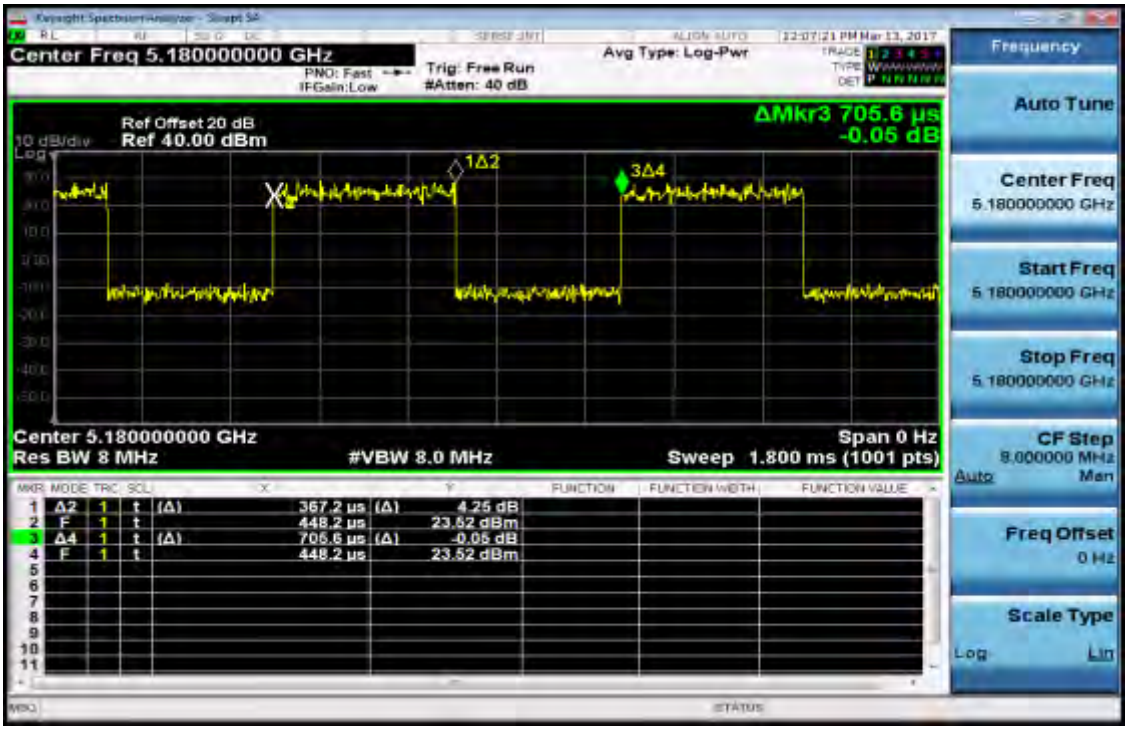
DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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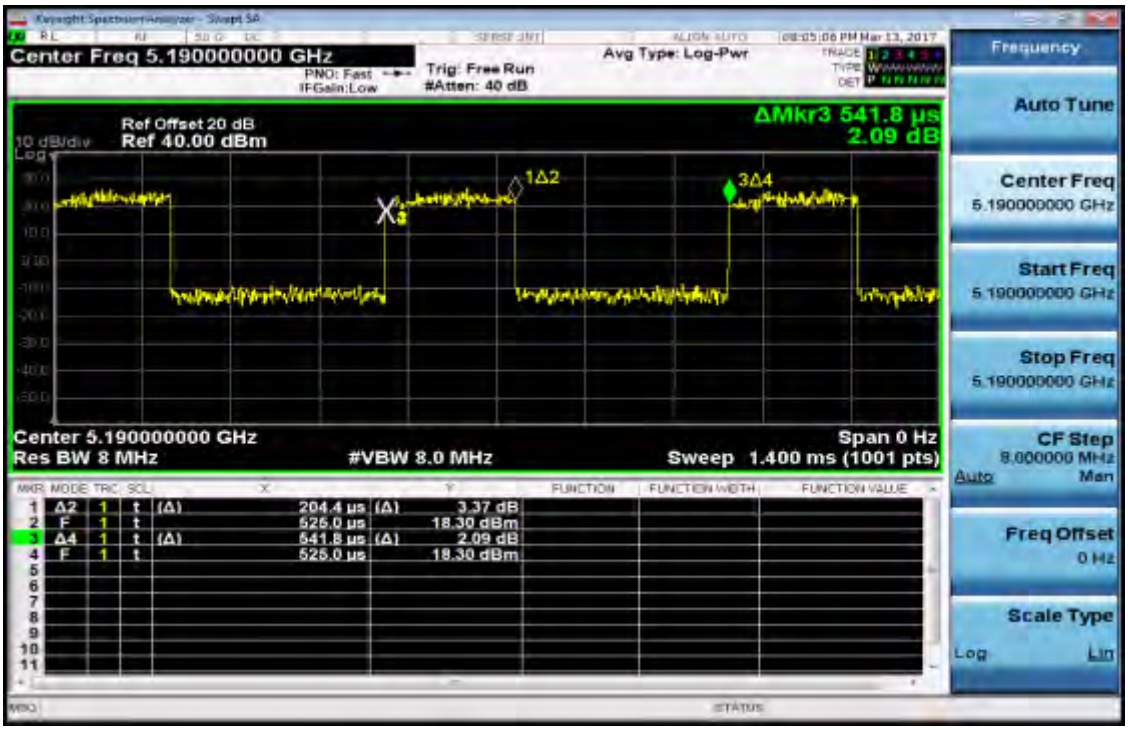
802.11n HT 40



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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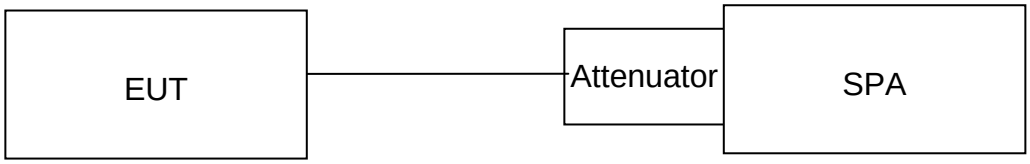
8.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

8.4 Test Set-up



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8.5 Measurement Result
26dB Bandwidth

802.11a_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	16.53	12.182
5220	16.64	12.211
5240	16.54	12.186

802.11a_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	16.63	12.209
5220	16.53	12.183
5240	16.70	12.227

802.11a_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	16.46	12.165
5220	16.54	12.186
5240	16.77	12.245

802.11a_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	16.54	12.185
5220	16.62	12.205
5240	16.72	12.232

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.59	12.452
5220	17.58	12.451
5240	17.55	12.442

802.11n_HT20_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.63	12.462
5220	17.60	12.454
5240	17.65	12.468

802.11n_HT20_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.58	12.451
5220	17.57	12.448
5240	17.65	12.467

802.11n_HT20_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	17.63	12.462
5220	17.56	12.445
5240	17.56	12.444

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802.11n _HT40_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	36.02	15.565
5230	36.00	15.564

802.11n _HT40_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	36.13	15.578
5230	36.06	15.571

802.11n _HT40_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	35.93	15.555
5230	36.00	15.563

802.11n _HT40_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	35.91	15.552
5230	35.93	15.555

802.11ac _VHT80_Main

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	75.09	18.756

802.11ac _VHT80_Aux1

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	75.03	18.752

802.11ac _VHT80_Aux2

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	74.96	18.748

802.11ac _VHT80_Aux3

Frequency (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	75.08	18.755

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6dB Bandwidth (5725 MHz~ 5850 MHz) measure with Peak detector for FCC

802.11a_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	12.61	11.007
5785	15.14	11.801
5825	10.13	10.055

802.11a_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.05	11.155
5785	13.90	11.430
5825	15.12	11.795

802.11a_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	13.82	11.405
5785	16.18	12.091
5825	16.34	12.134

802.11a_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.12	11.796
5785	15.18	11.812
5825	14.44	11.595

CDD Mode:

802.11n_HT20_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.04	11.771
5785	13.83	11.409
5825	15.11	11.794

802.11n_HT20_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	14.04	11.474
5785	16.32	12.126
5825	15.16	11.808

802.11n_HT20_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.15	11.803
5785	15.13	11.798
5825	15.08	11.783

802.11n_HT20_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.14	11.802
5785	15.15	11.804
5825	15.12	11.795

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802.11n_HT40_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.88	15.299
5795	35.07	15.450

802.11n_HT40_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.07	15.450
5795	33.87	15.298

802.11n_HT40_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	33.82	15.292
5795	33.82	15.292

802.11n_HT40_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.09	15.452
5795	35.10	15.453

802.11ac _VHT80_Main

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	68.86	18.380

802.11ac _VHT80_Aux1

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	61.40	17.882

802.11ac _VHT80_Aux2

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	62.57	17.964

802.11ac _VHT80_Aux3

Frequency (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	68.85	18.379

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99% Bandwidth

(5150~5250 MHz)

802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.25	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.25	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.28	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.22	< 5250

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CDD Mode:

802.11n HT20

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.73	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.73	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.73	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5248.79	< 5250

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802.11n HT40

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.05	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5248.00	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5230	5247.90	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5247.90	< 5250

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802.11ac VHT80

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.50	< 5250

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.60	< 5250

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5210	5247.60	< 5250

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5240	5247.60	< 5250

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(5725~5850MHz)

802.11a

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.48	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.45	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.45	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736.45	> 5725

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CDD Mode:

802.11n HT20

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5735.85	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5736	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5734.74	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5745	5735.46	> 5725

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802.11n HT40

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	
5755	5736.45	> 5725	

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	
5755	5736.25	> 5725	

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	
5755	5734.40	> 5725	

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)	
5755	5736.20	> 5725	

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802.11ac VHT80

Main

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5736.40	> 5725

Aux1

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5734.00	> 5725

Aux2

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5775	5732.80	> 5725

Aux3

Frequency (MHz)	Measured Frequency (MHz)	Limit (MHz)
5755	5735.50	> 5725

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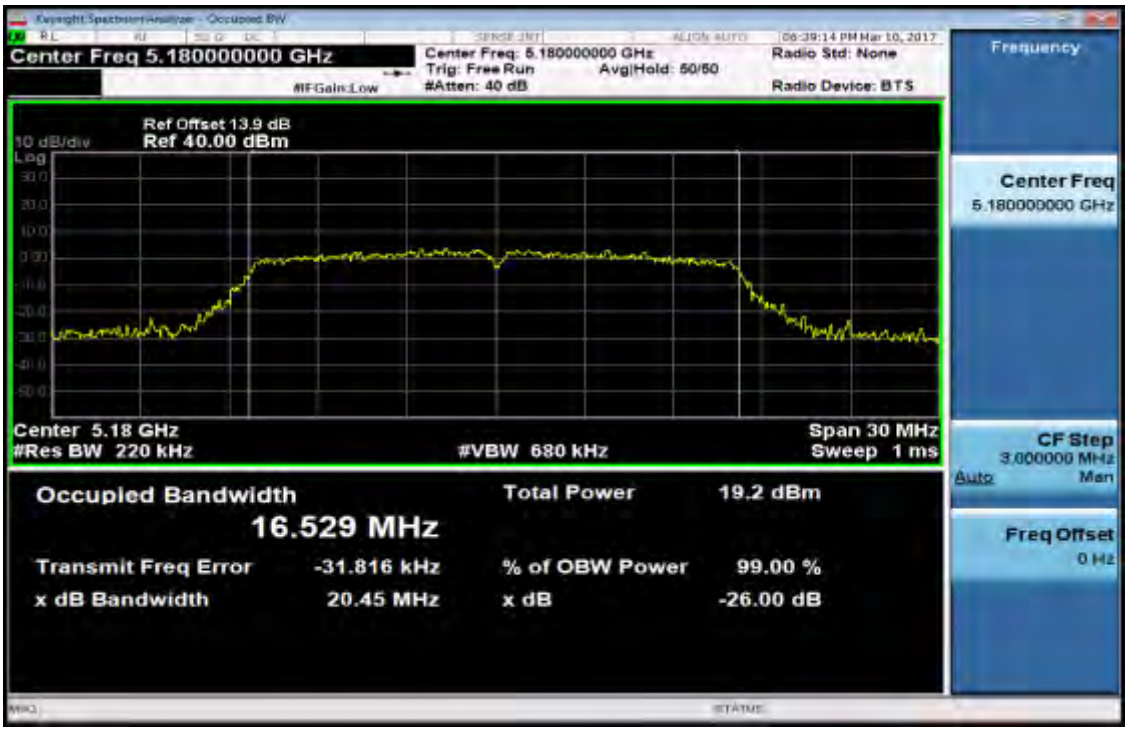
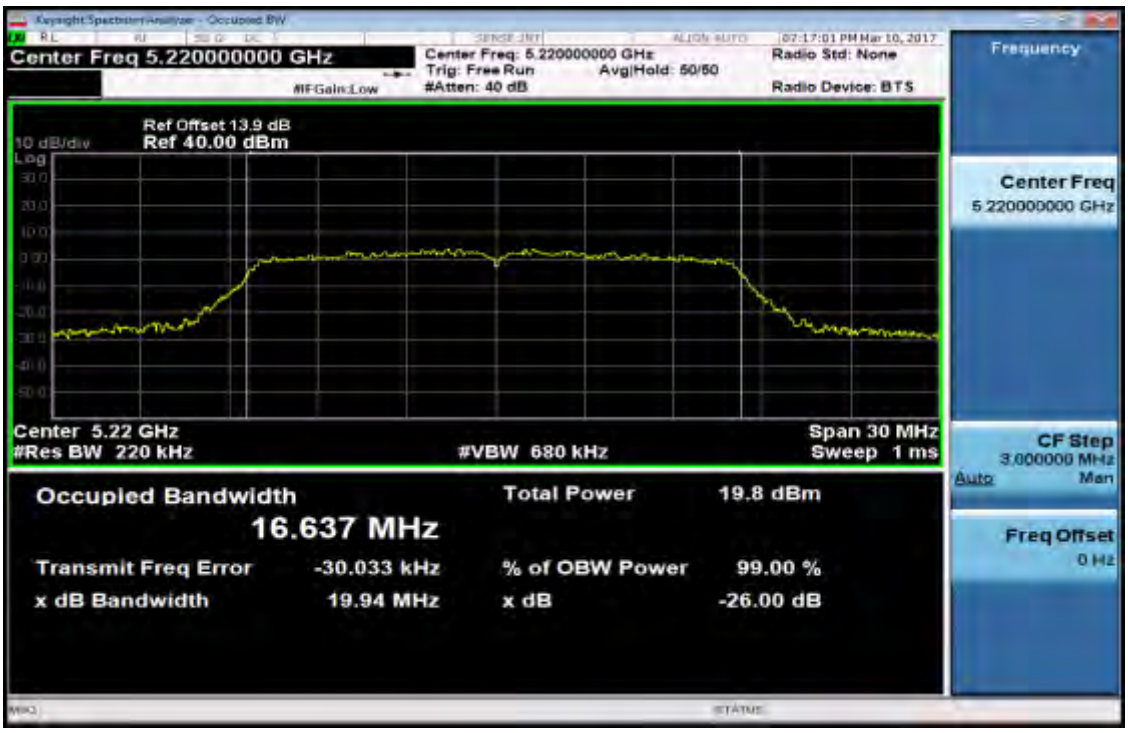
802.11a, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180MHz)



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



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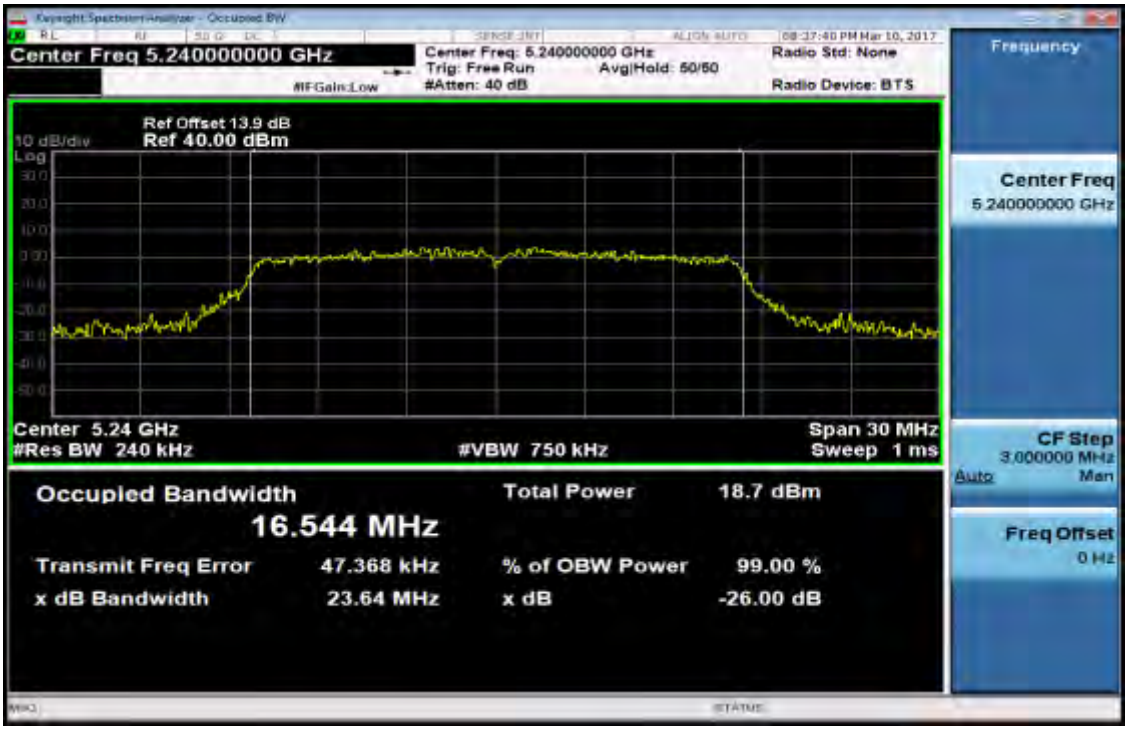
26dB Band Width Test Data CH-High (5240MHz)



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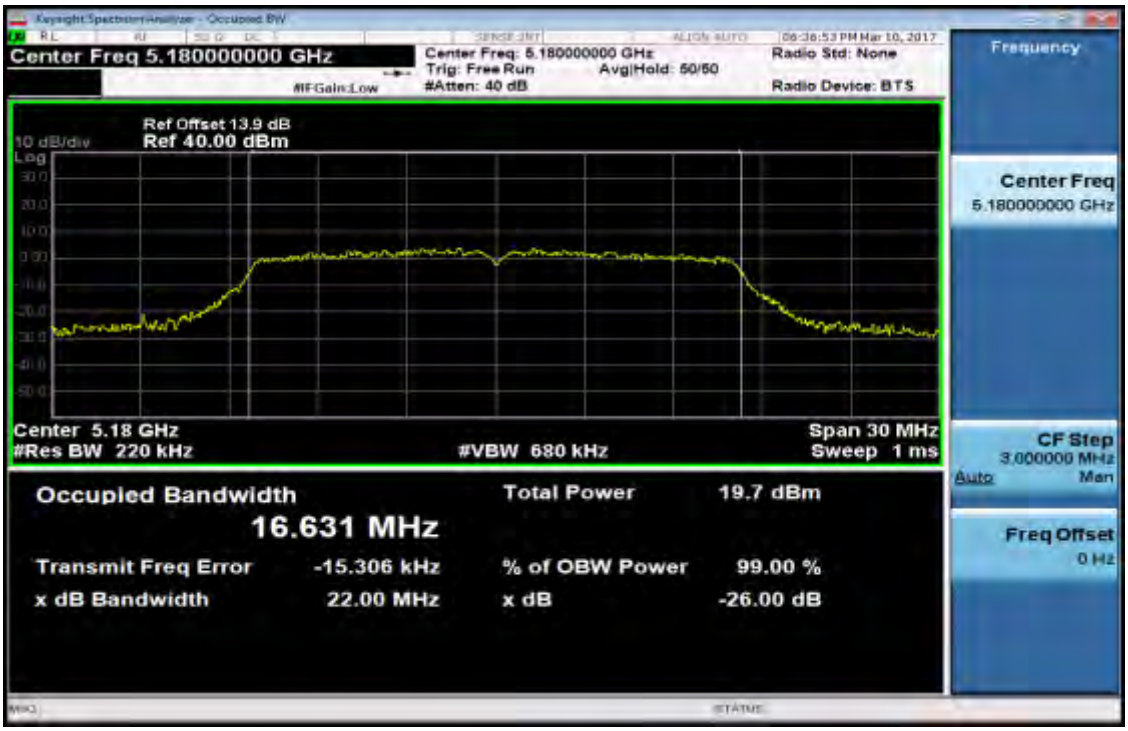
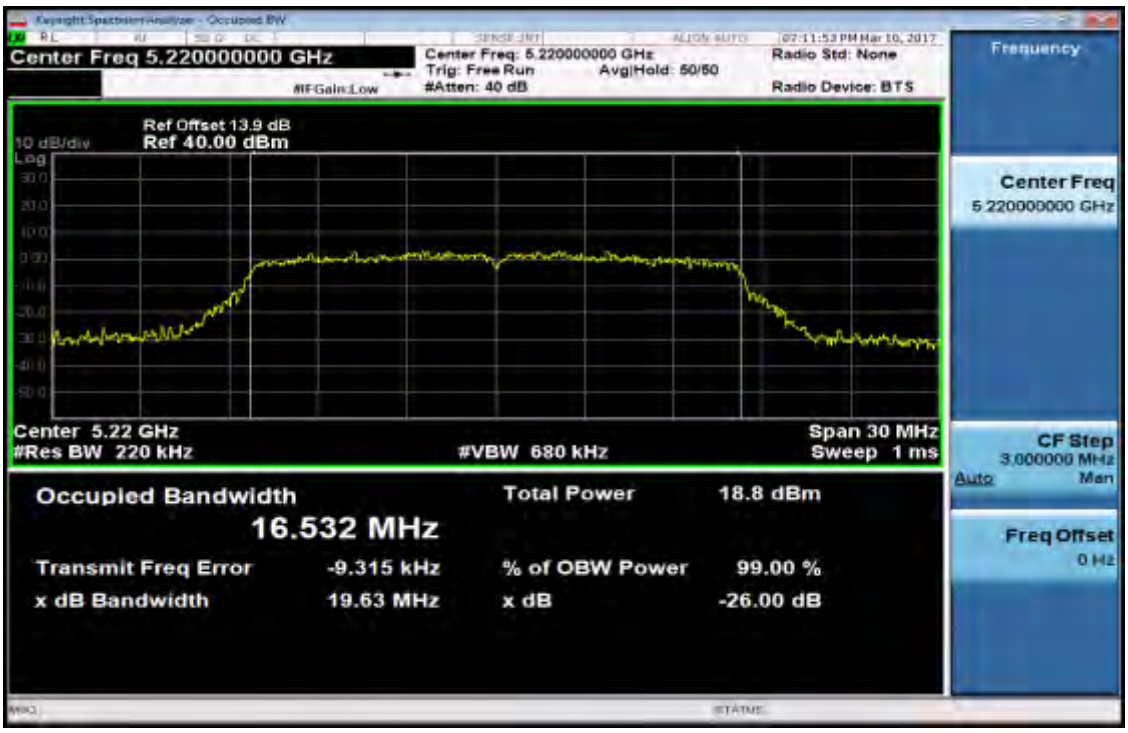
802.11a, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5180MHz)



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



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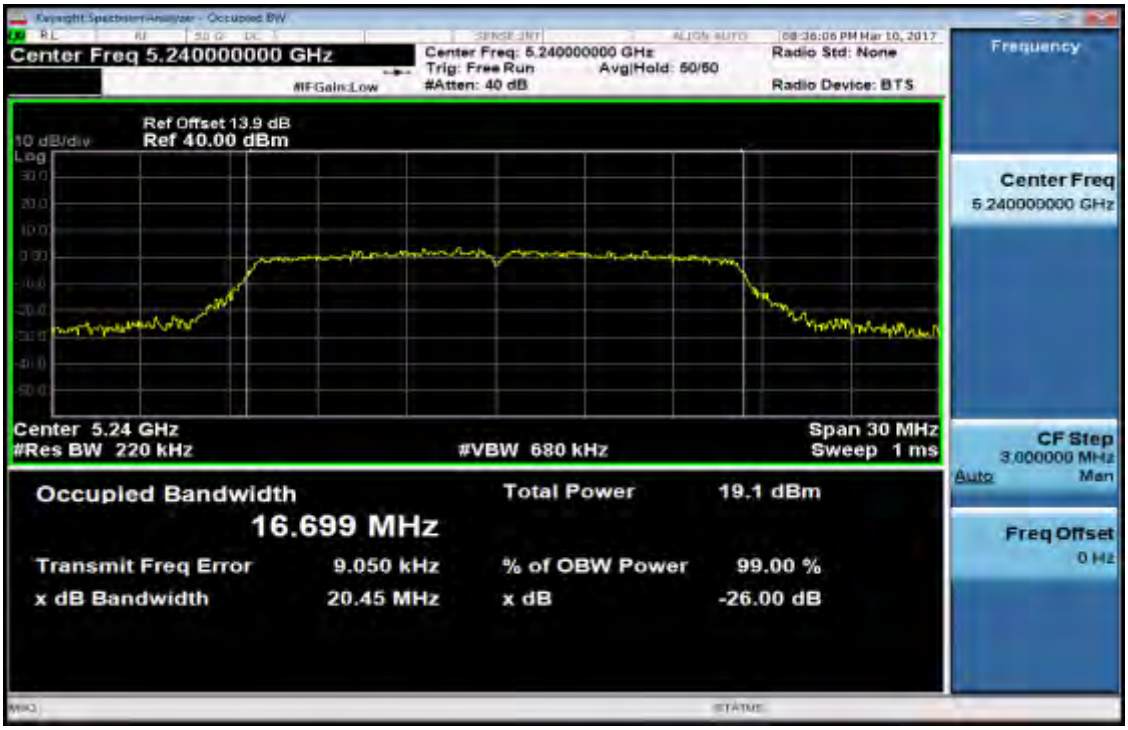
26dB Band Width Test Data CH-High (5240MHz)



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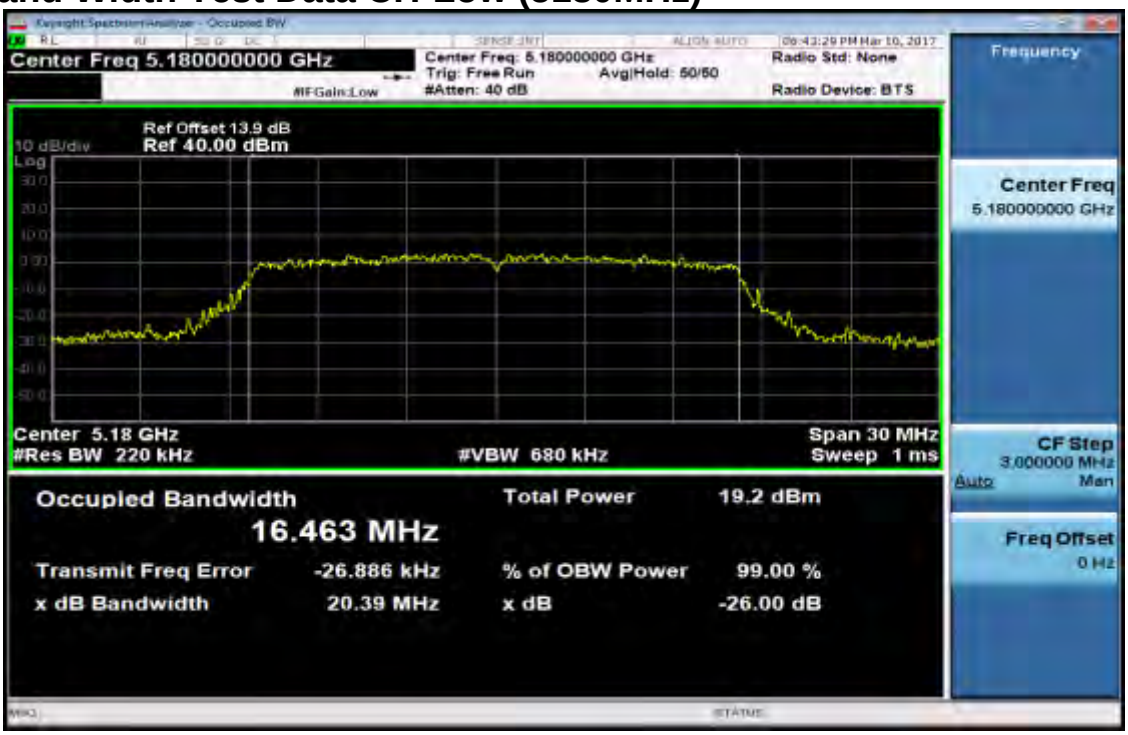
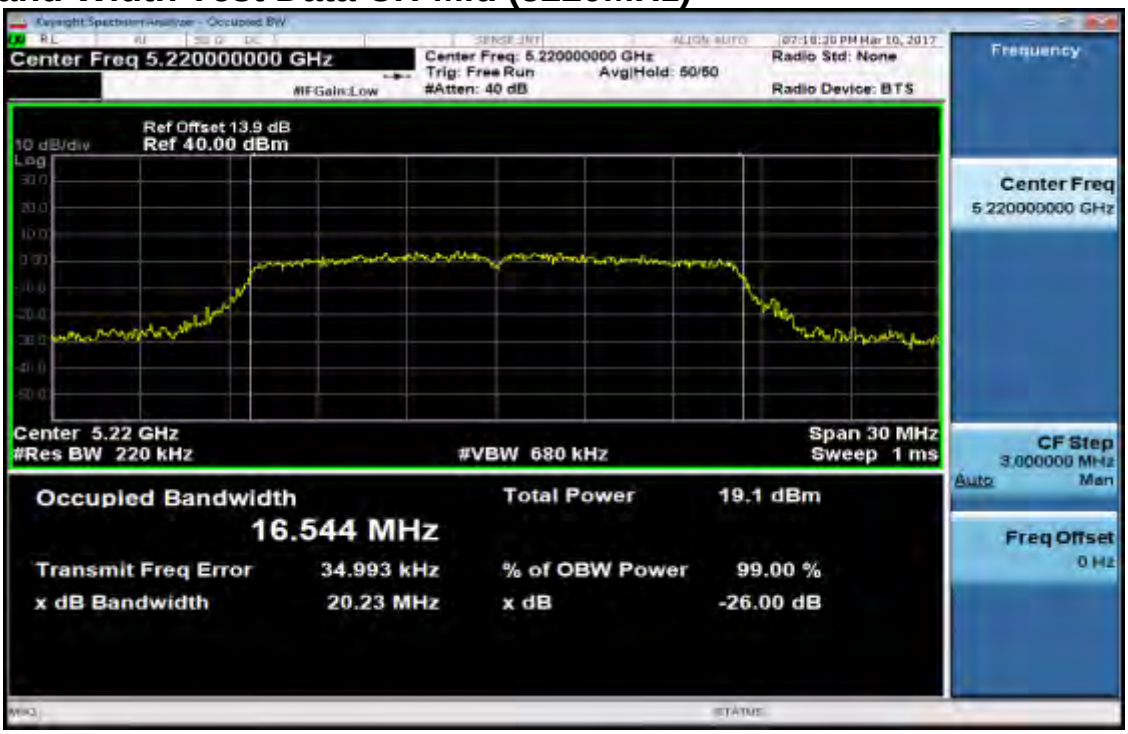
802.11a, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Low (5180MHz)



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



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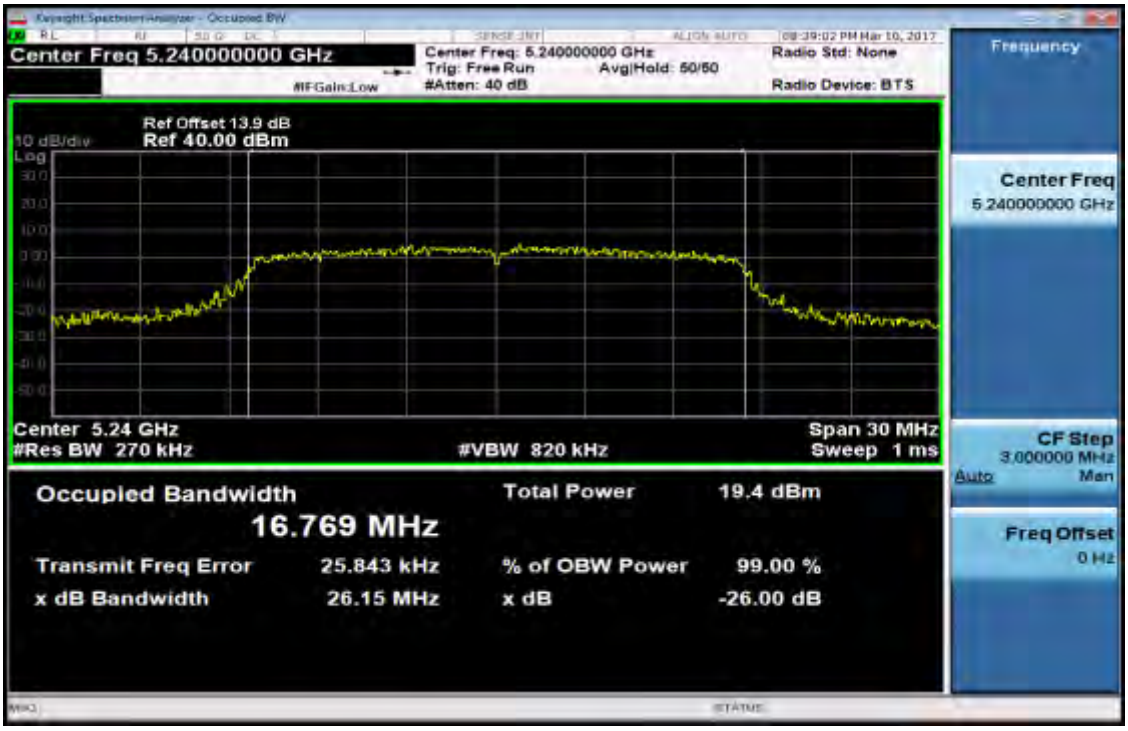
26dB Band Width Test Data CH-High (5240MHz)



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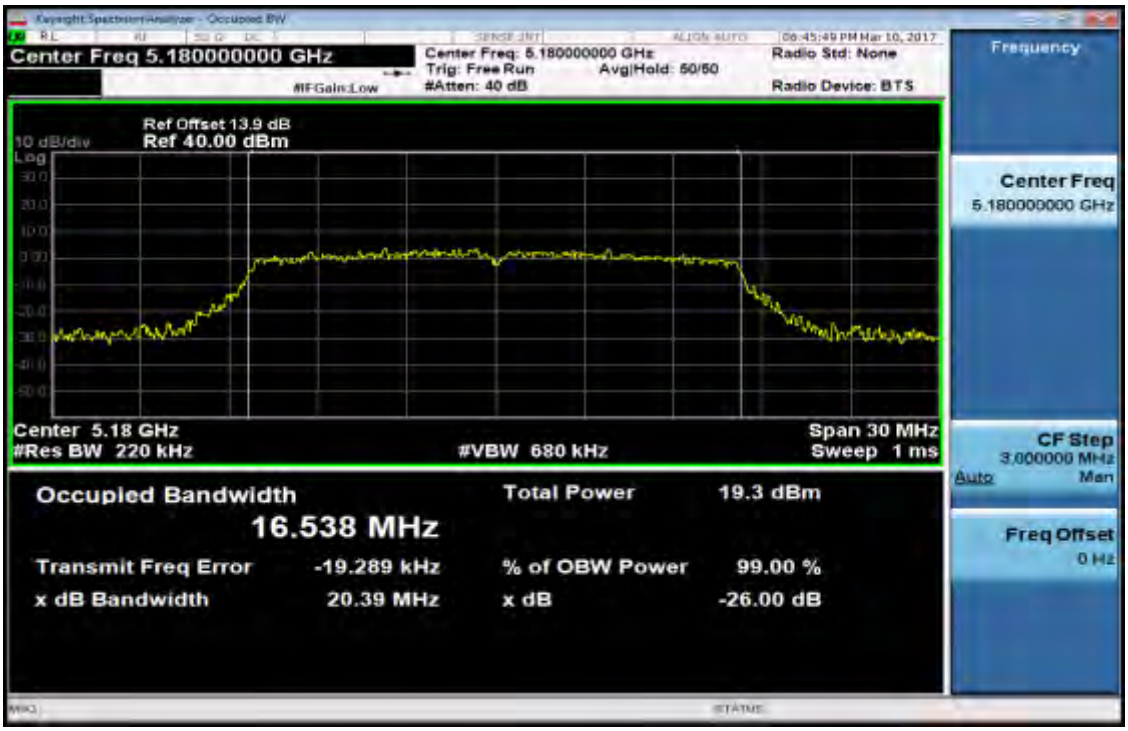
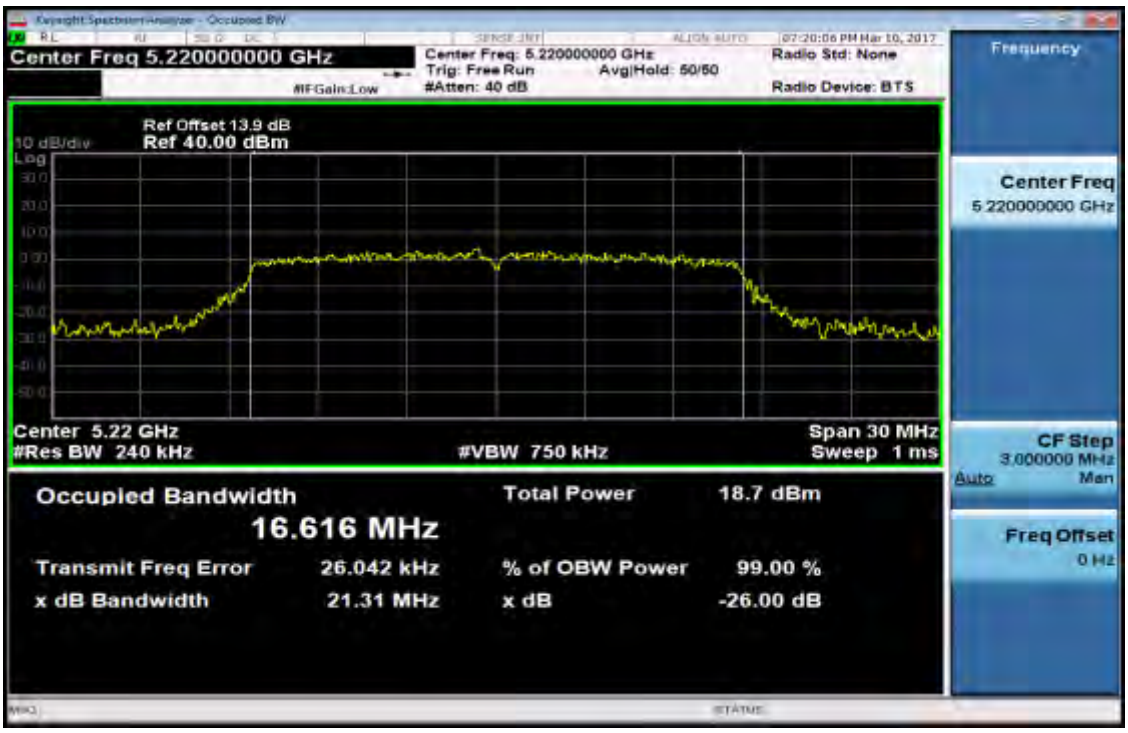
802.11a, 5150~5250 MHz (Aux3)
26dB Band Width Test Data CH-Low (5180MHz)



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



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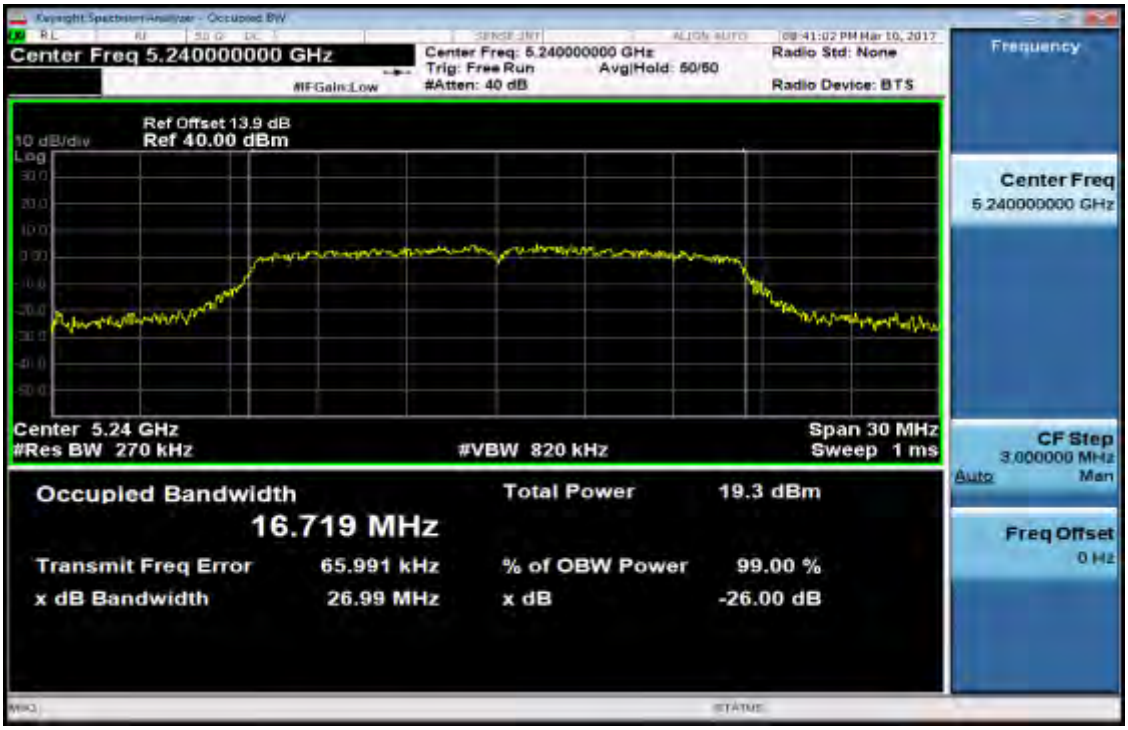
26dB Band Width Test Data CH-High (5240MHz)



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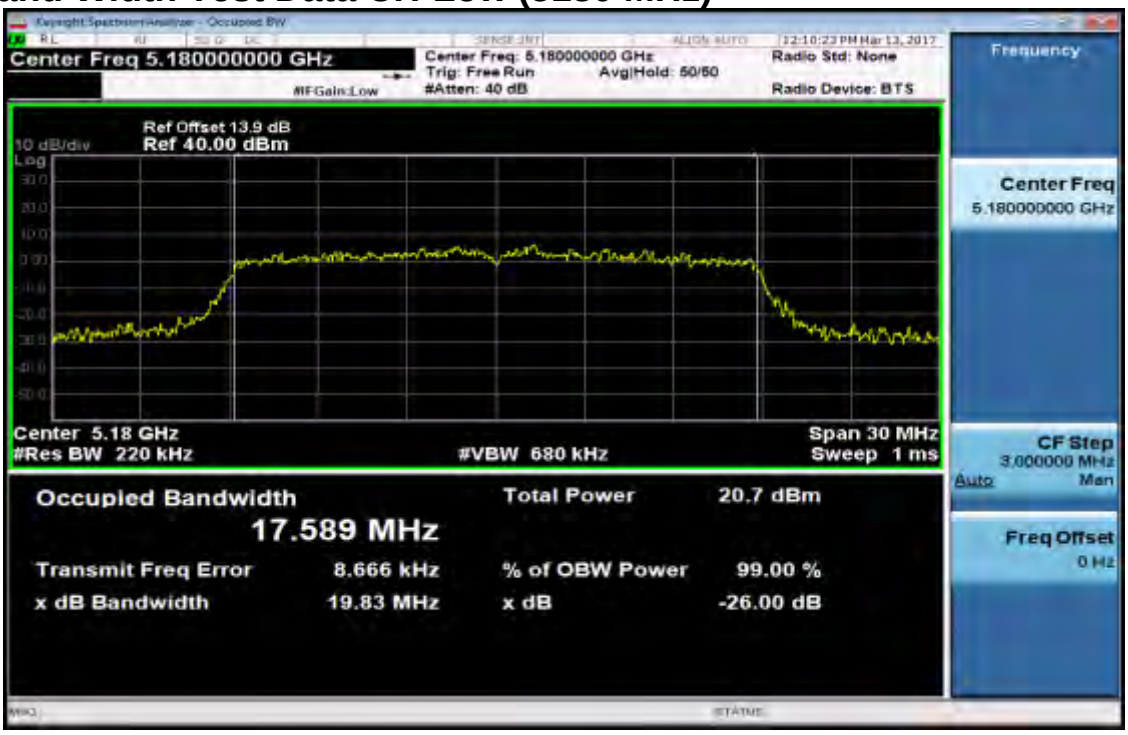
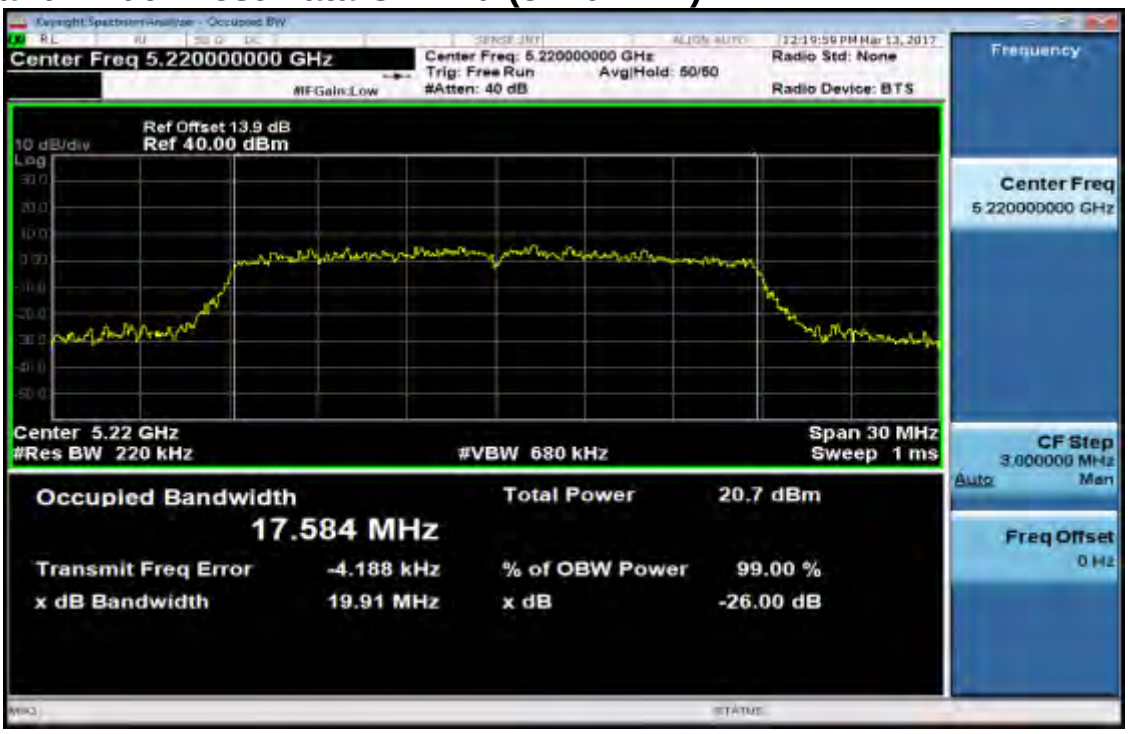
CDD Mode:
802.11n HT20, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5180 MHz)



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



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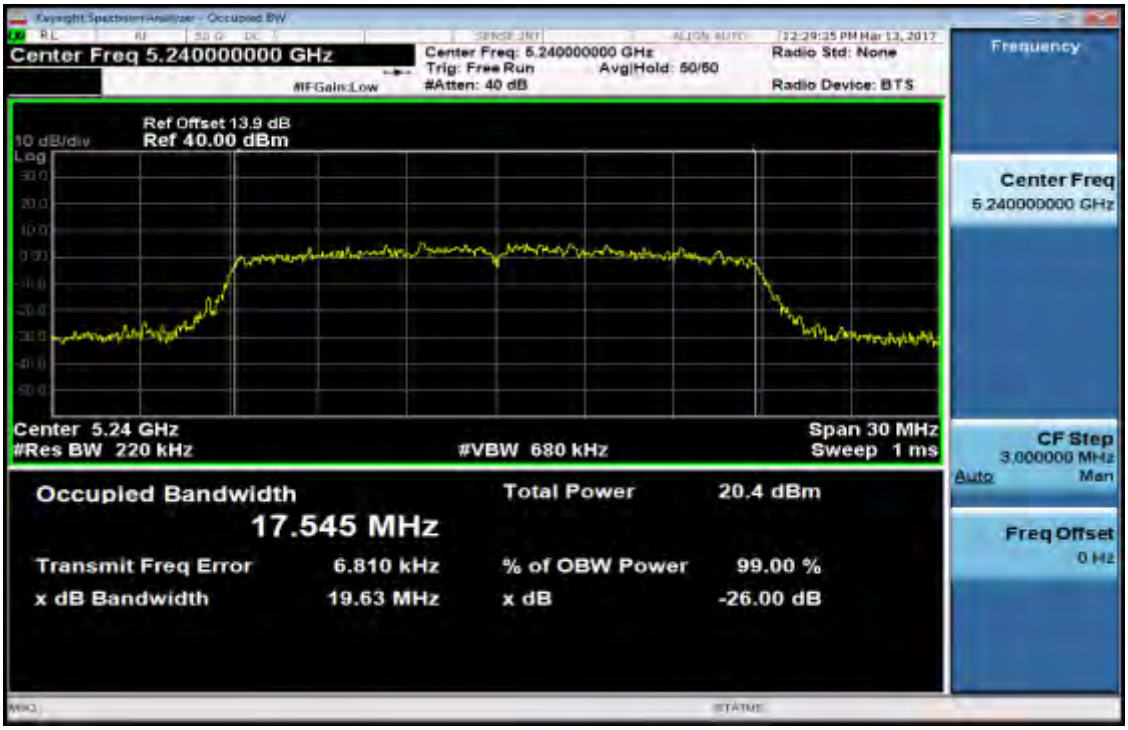
26dB Band Width Test Data CH-High (5240 MHz)



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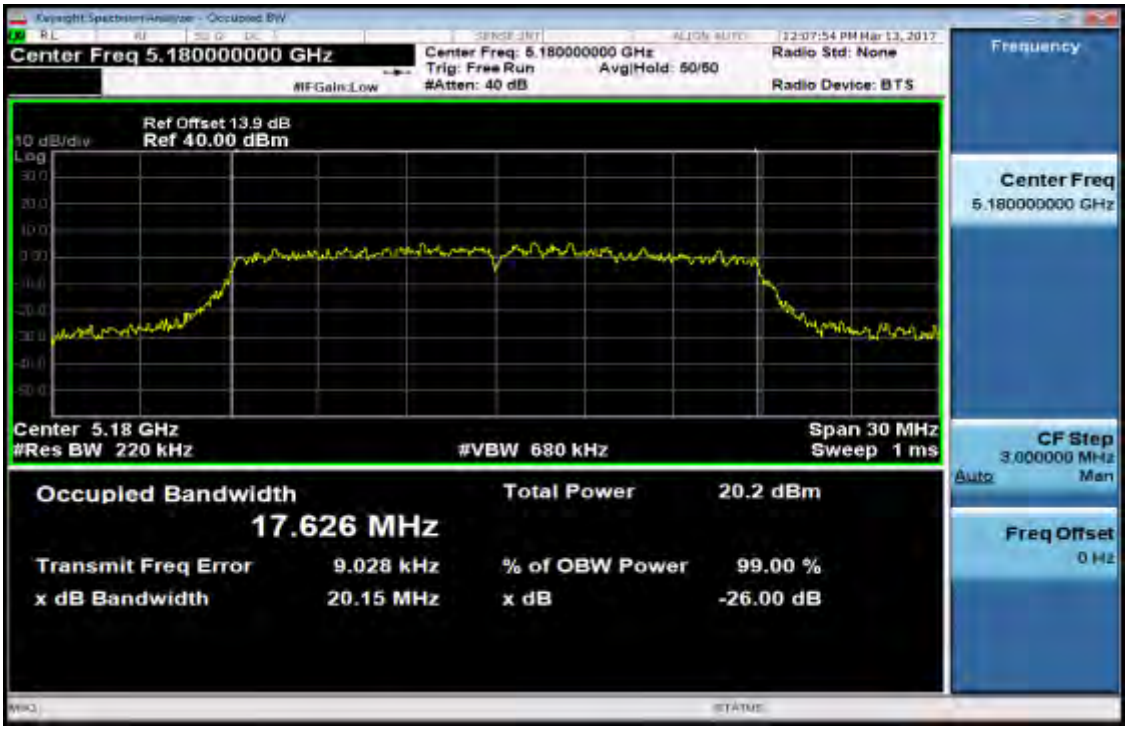
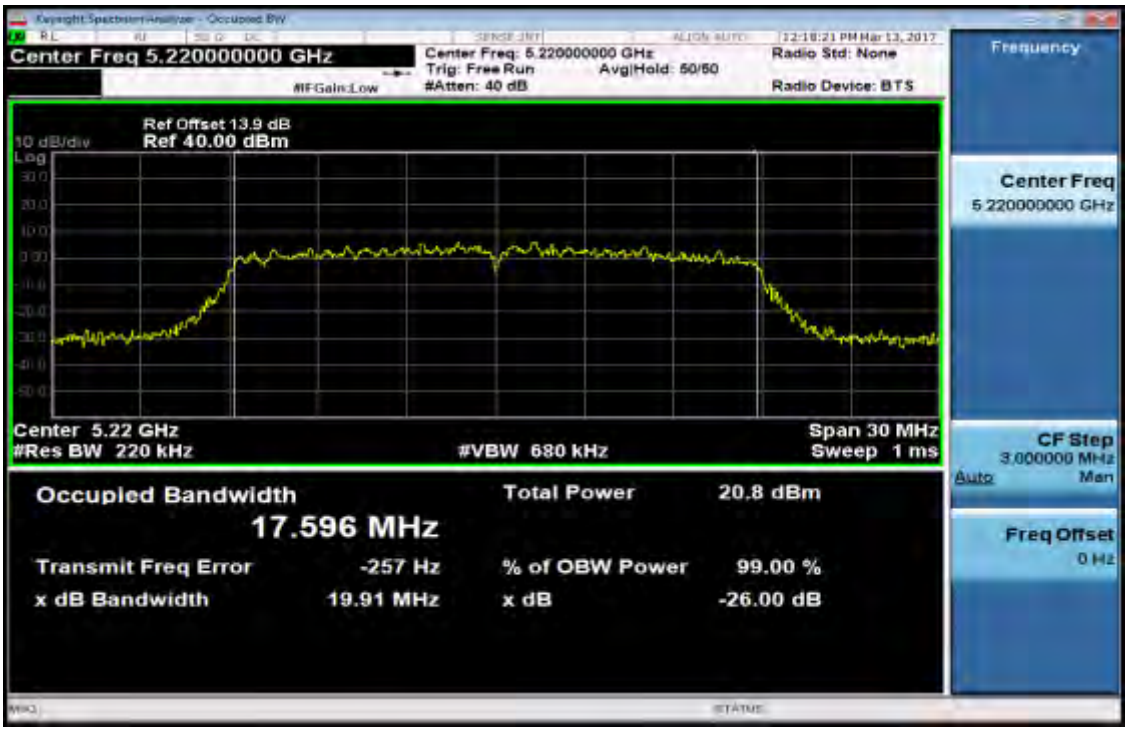
802.11n HT20, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5180 MHz)



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



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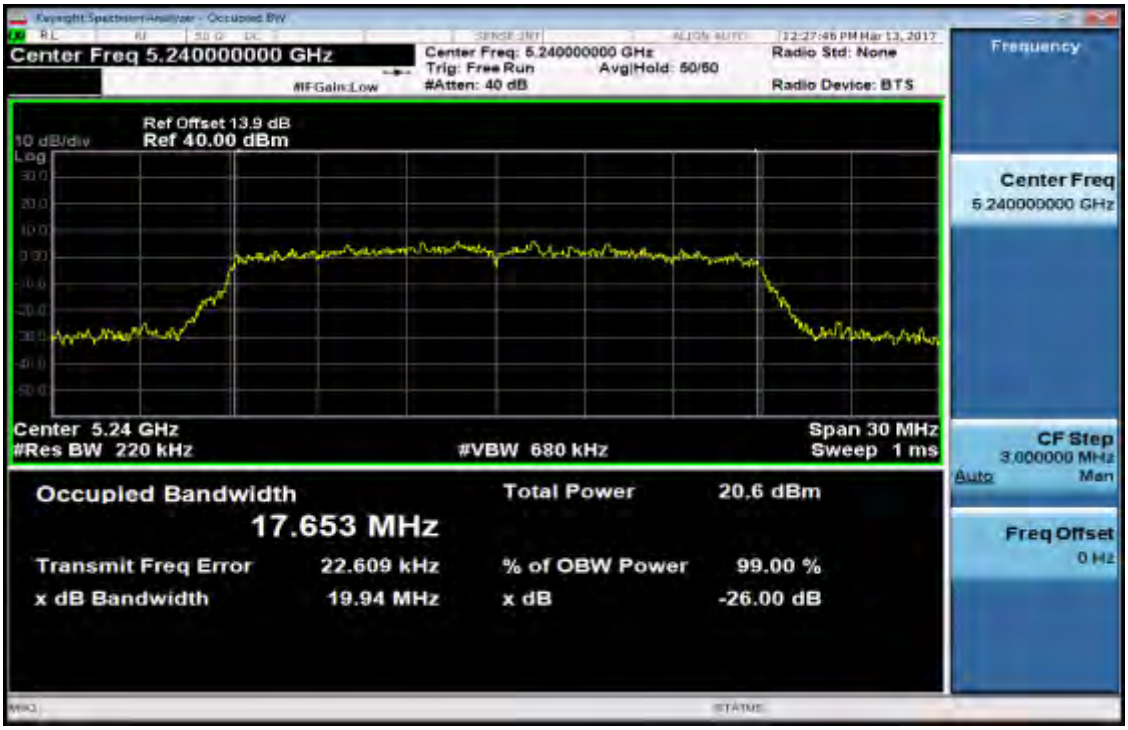
26dB Band Width Test Data CH-High (5240 MHz)



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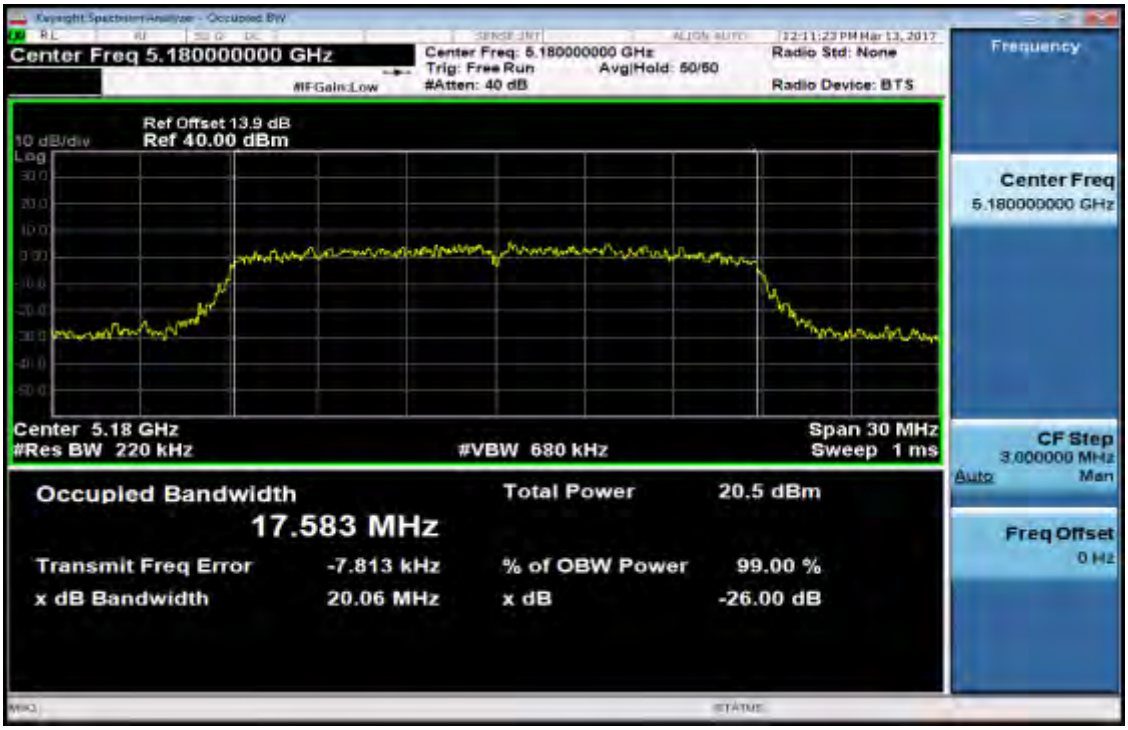
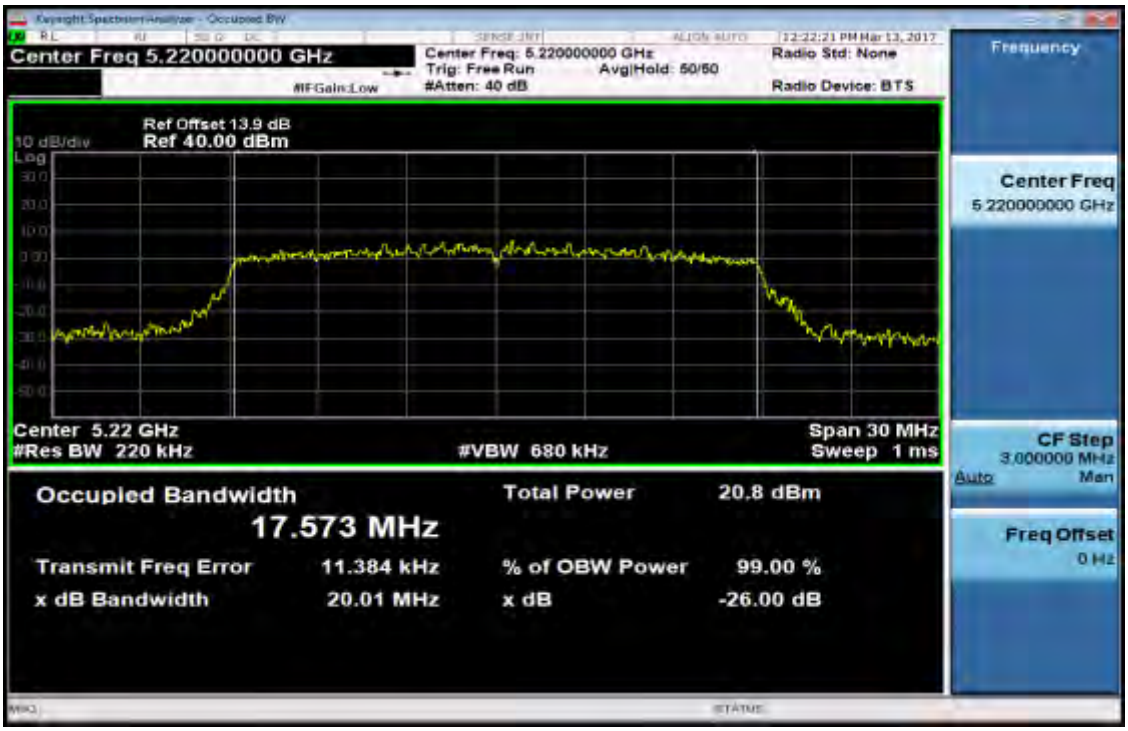
802.11n HT20, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Low (5180 MHz)



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



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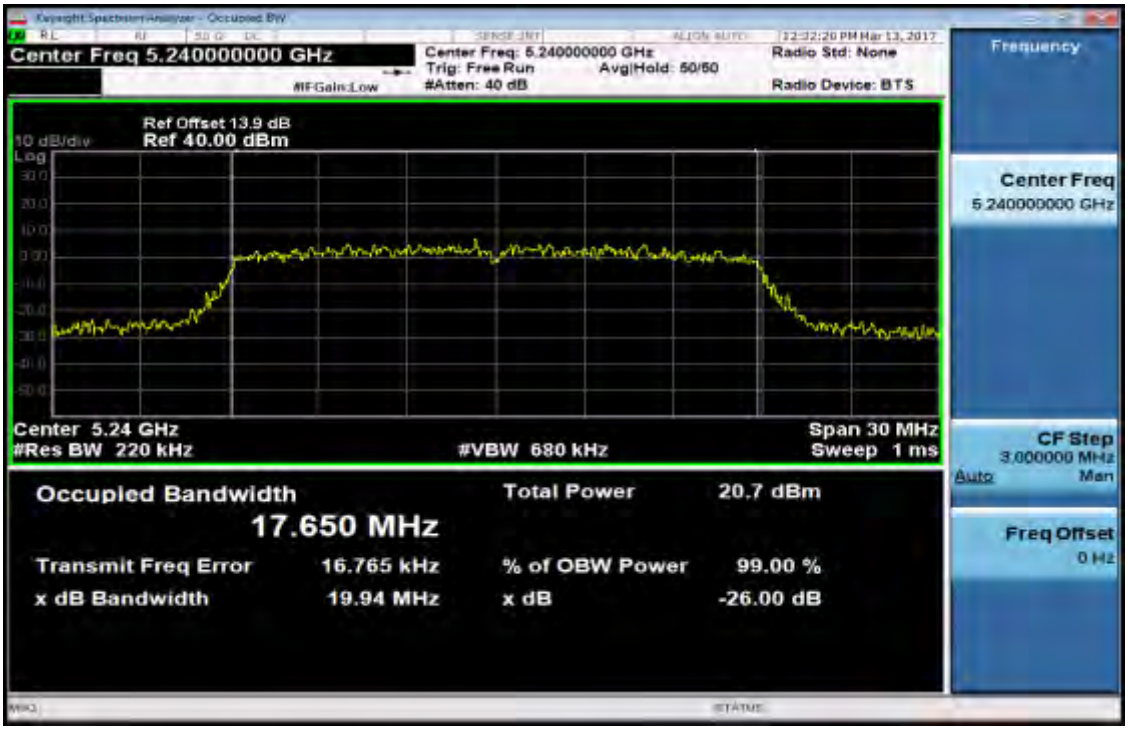

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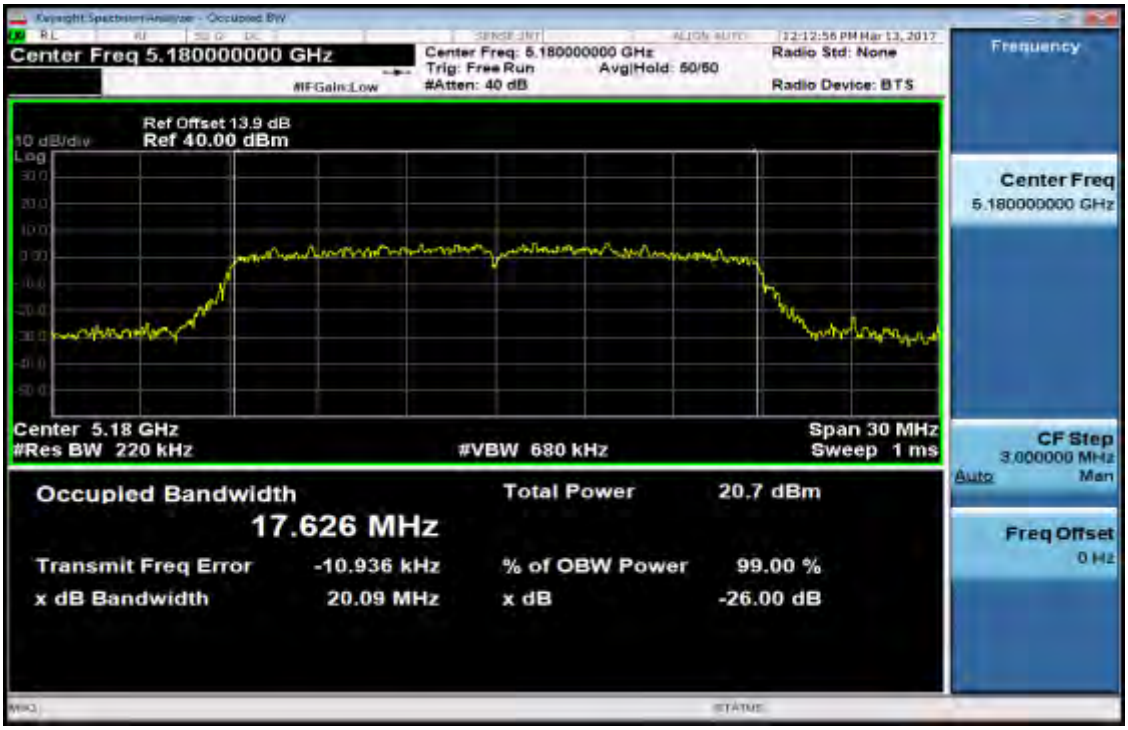
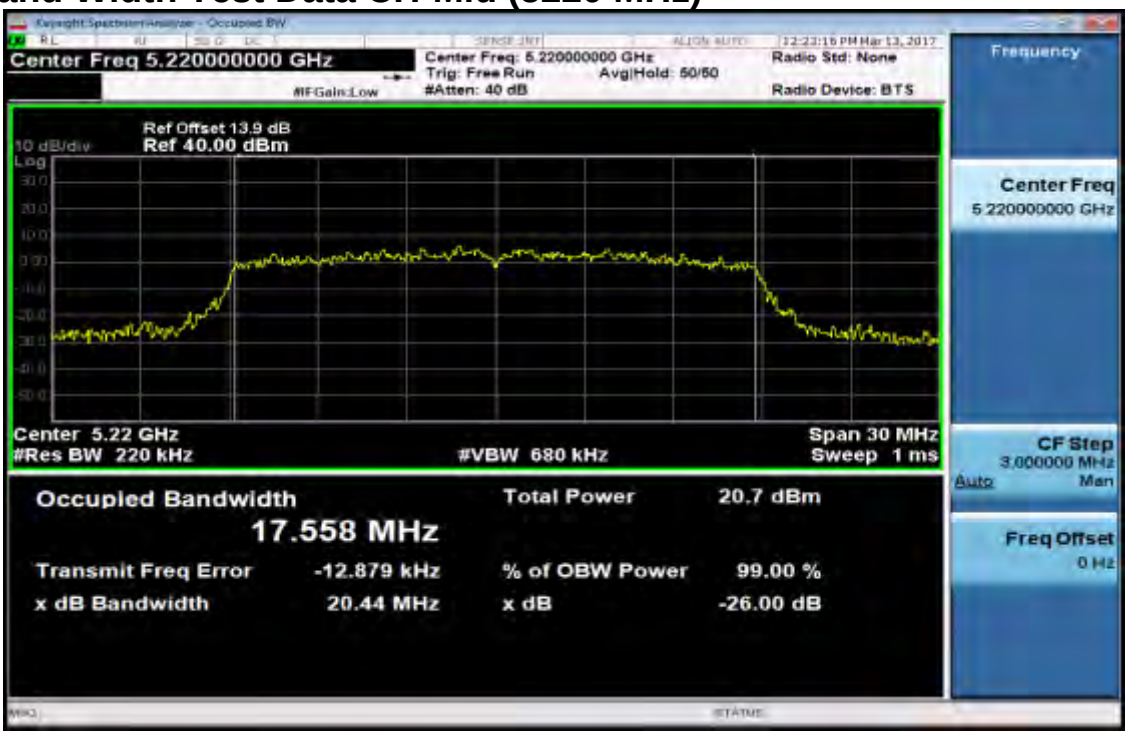
802.11n HT20, 5150~5250 MHz (Aux3)
26dB Band Width Test Data CH-Low (5180 MHz)



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



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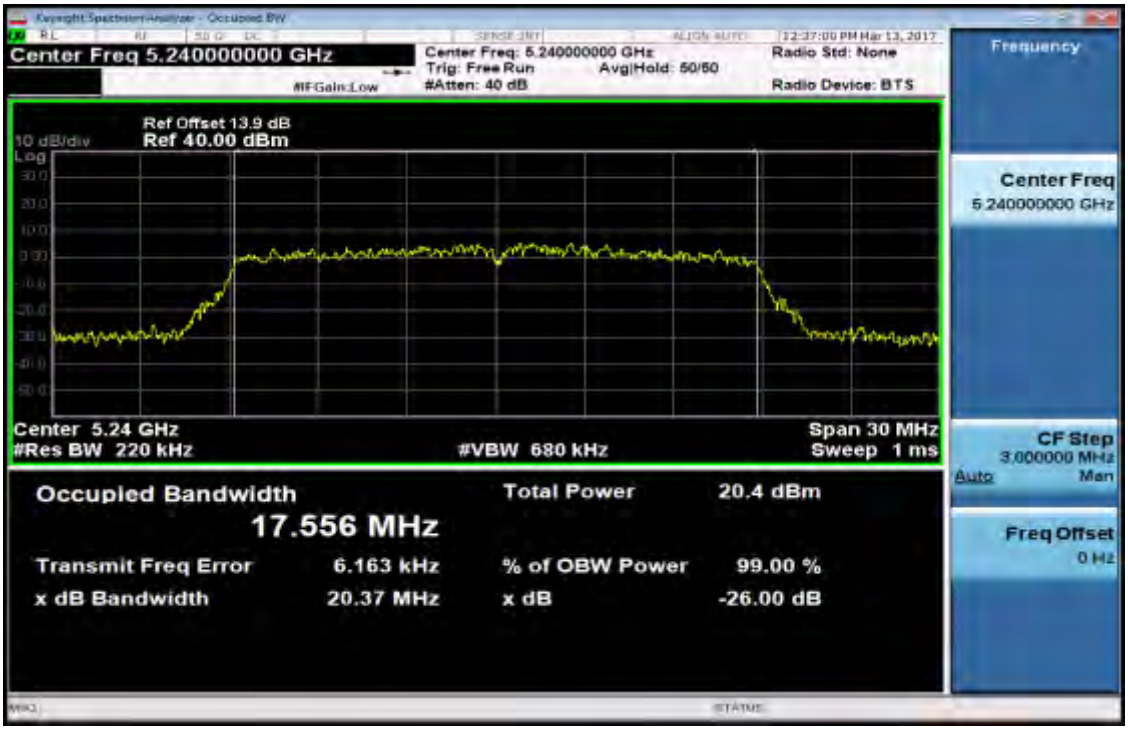

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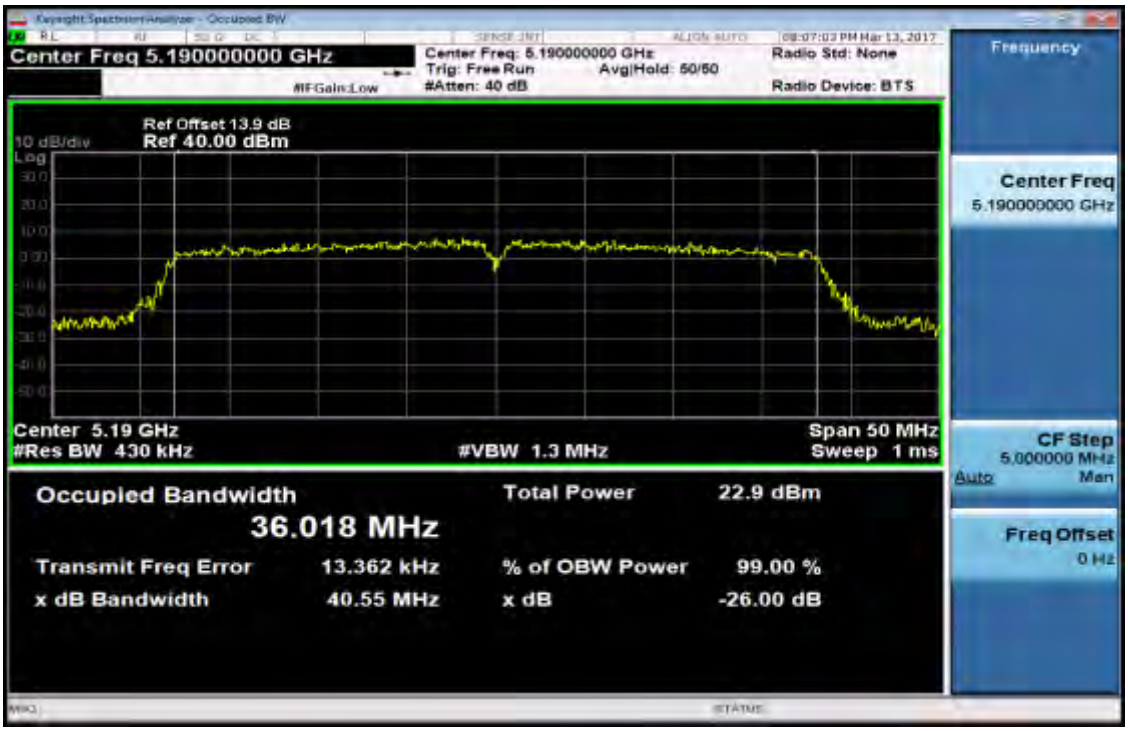
802.11n HT40, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Low (5190 MHz)



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

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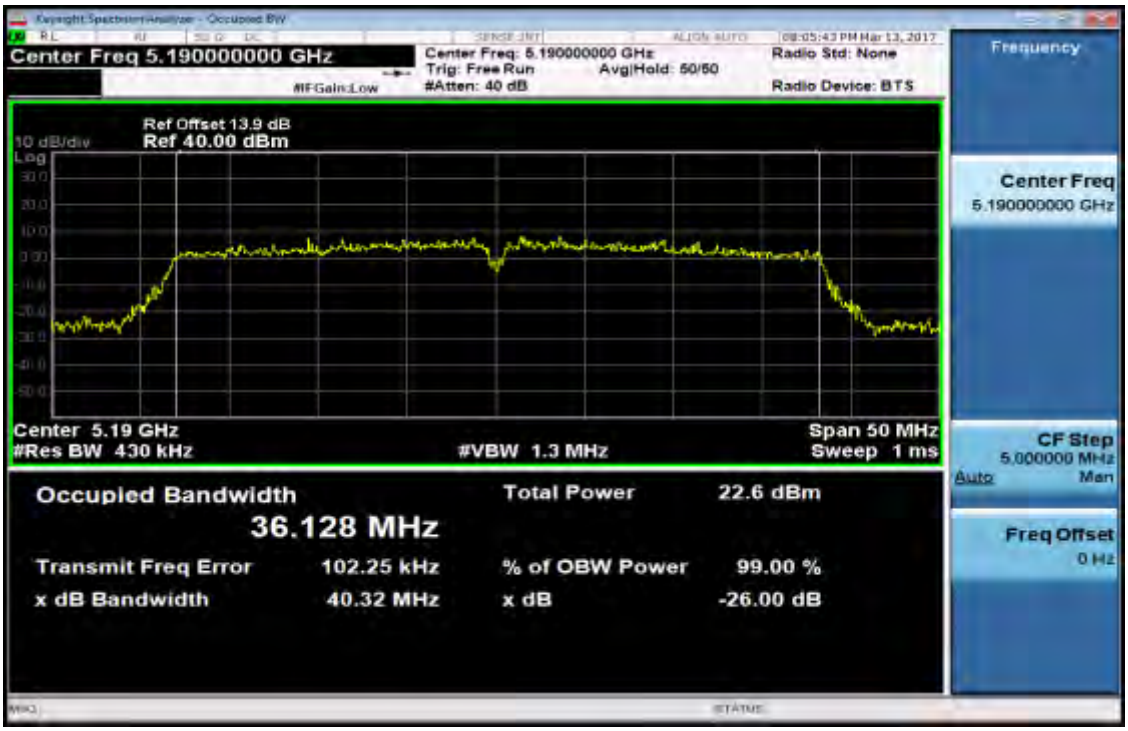
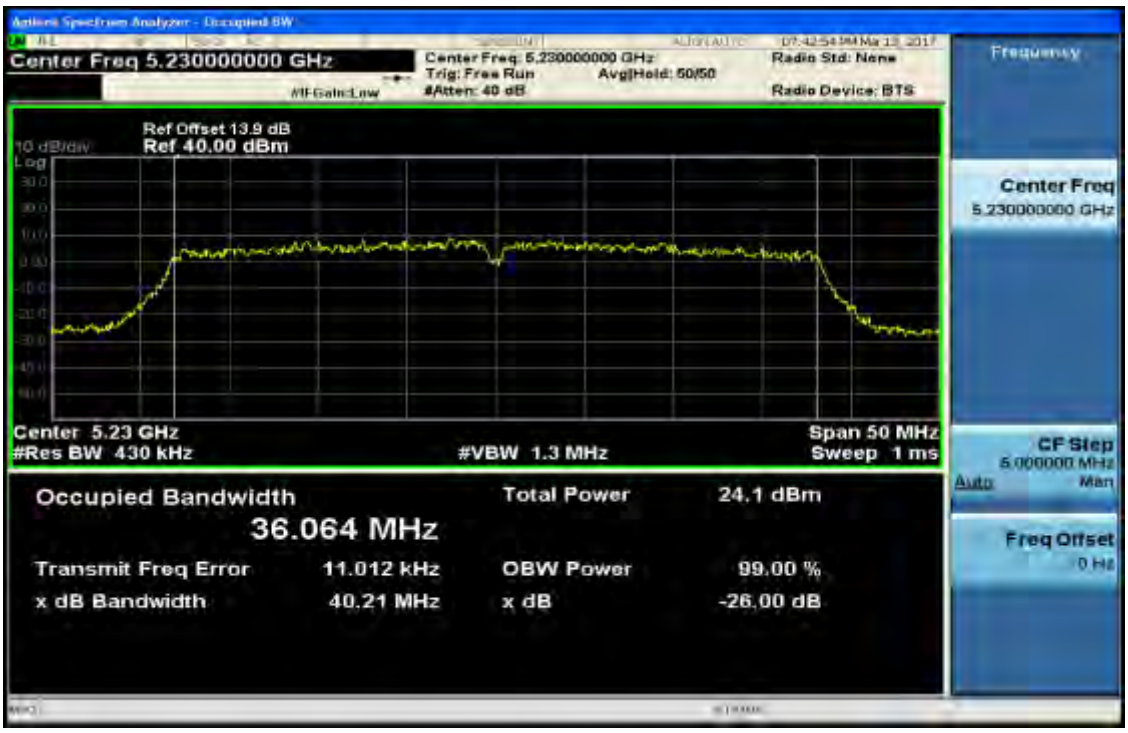
802.11n HT40, 5150~5250 MHz (Aux1)
26dB Band Width Test Data CH-Low (5190 MHz)



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



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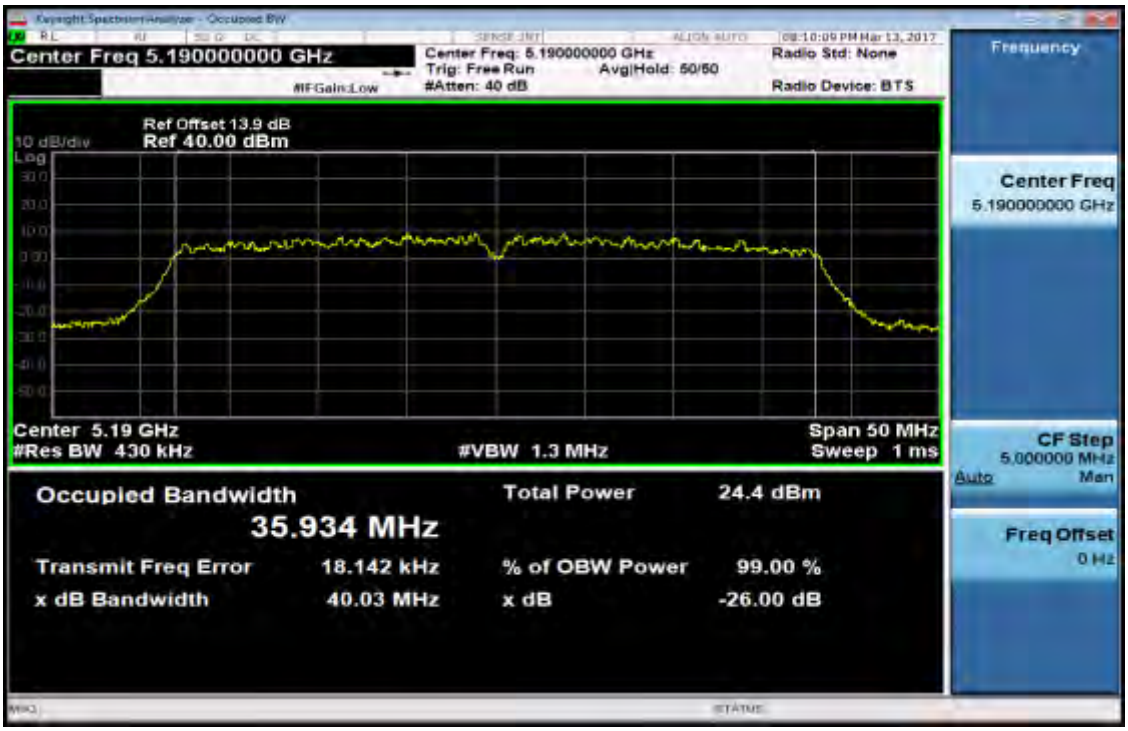
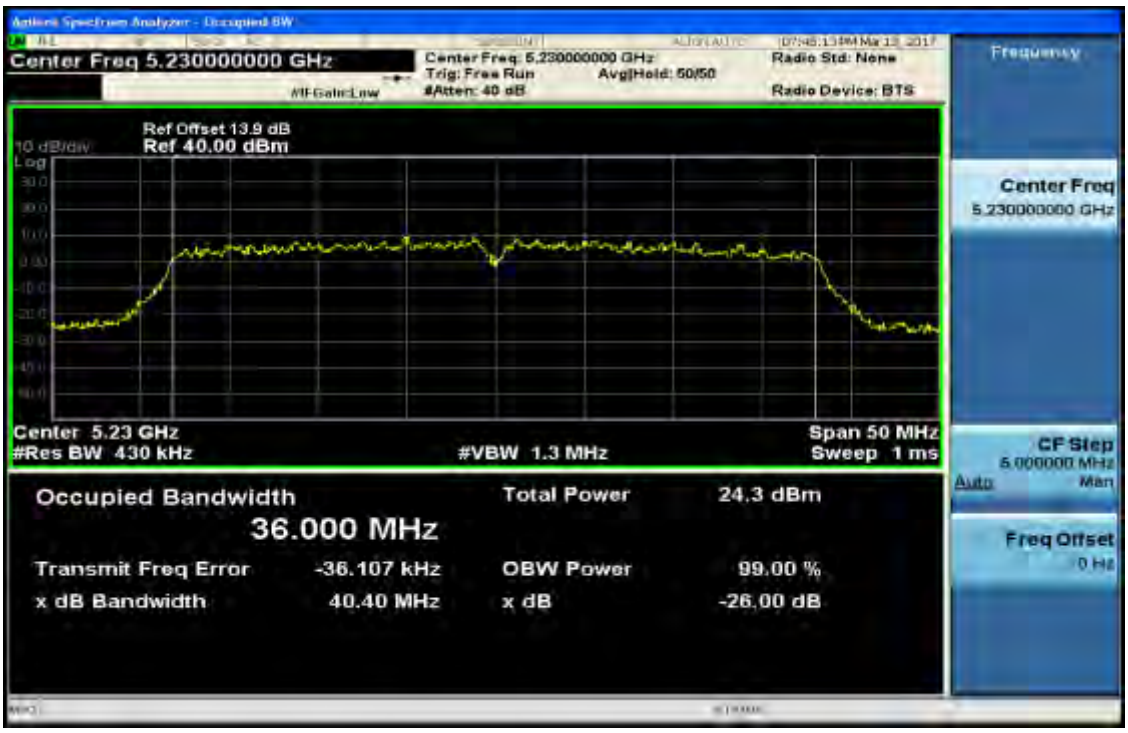
802.11n HT40, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Low (5190 MHz)



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



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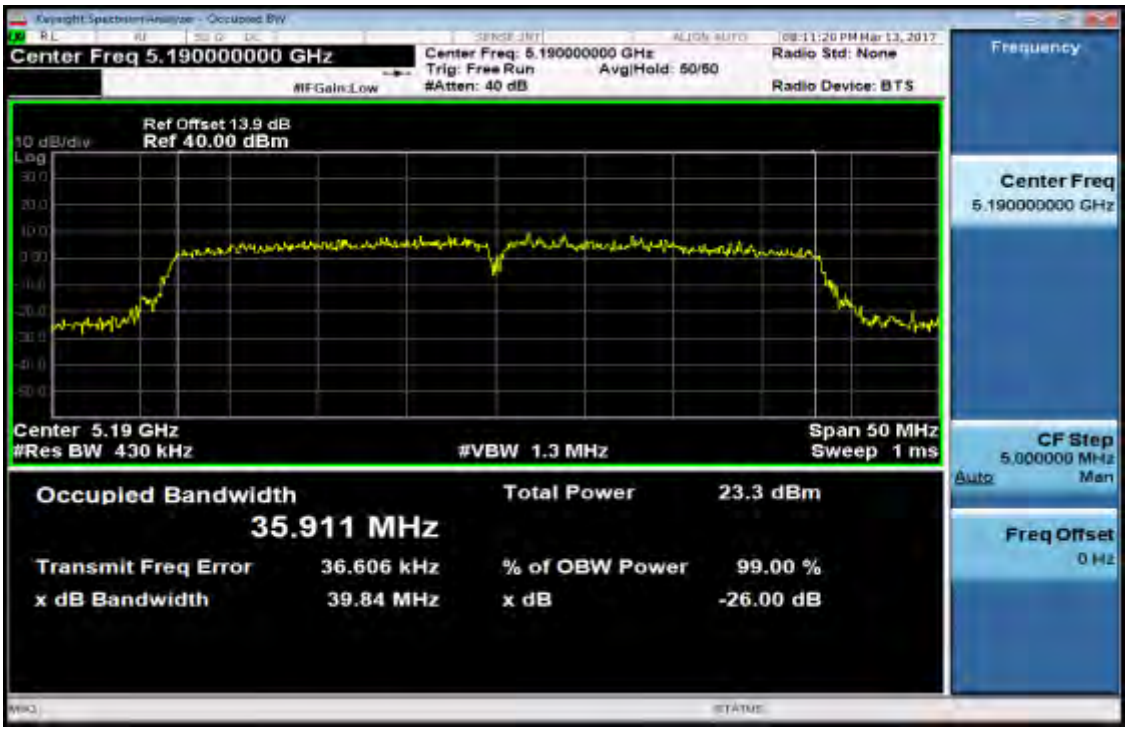
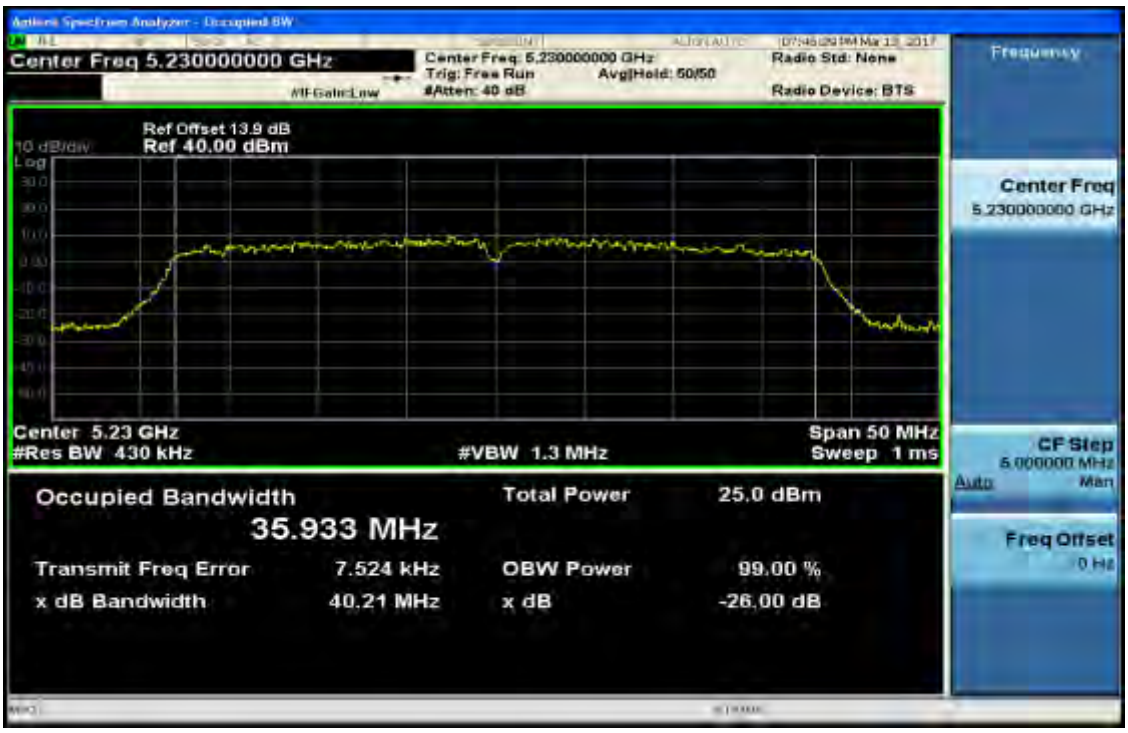
802.11n HT40, 5150~5250 MHz (Aux3)
26dB Band Width Test Data CH-Low (5190 MHz)



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



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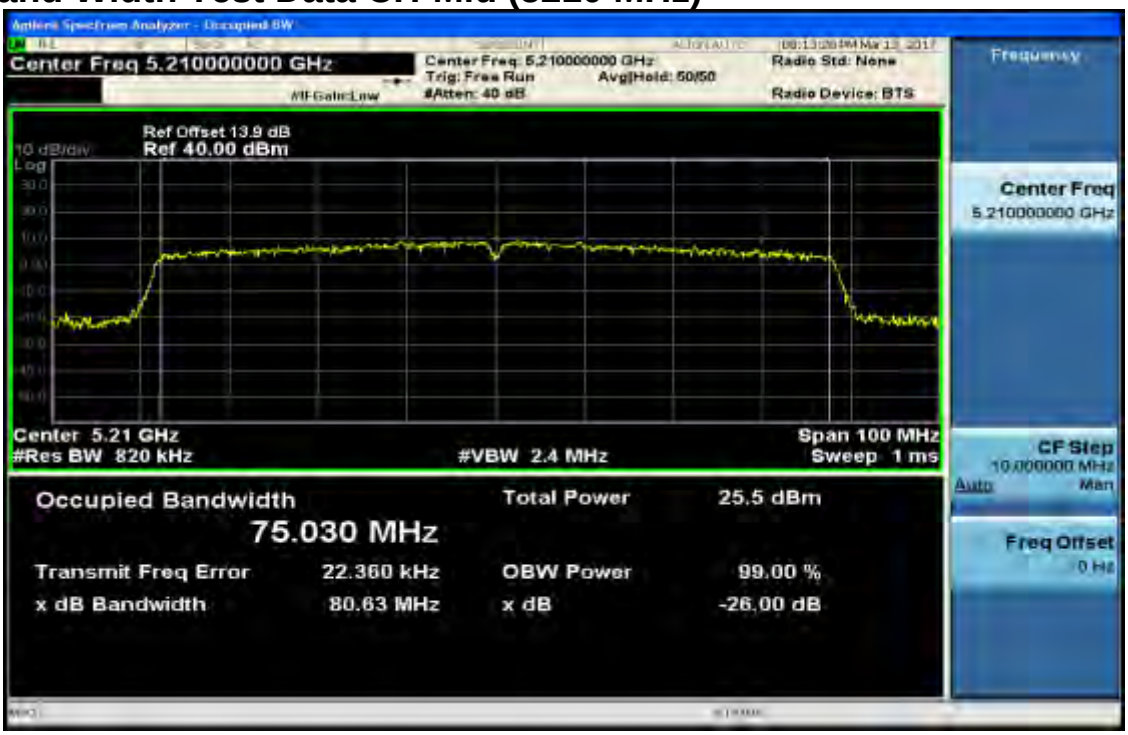
802.11ac VHT80, 5150~5250 MHz (Main)
26dB Band Width Test Data CH-Mid (5210 MHz)

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



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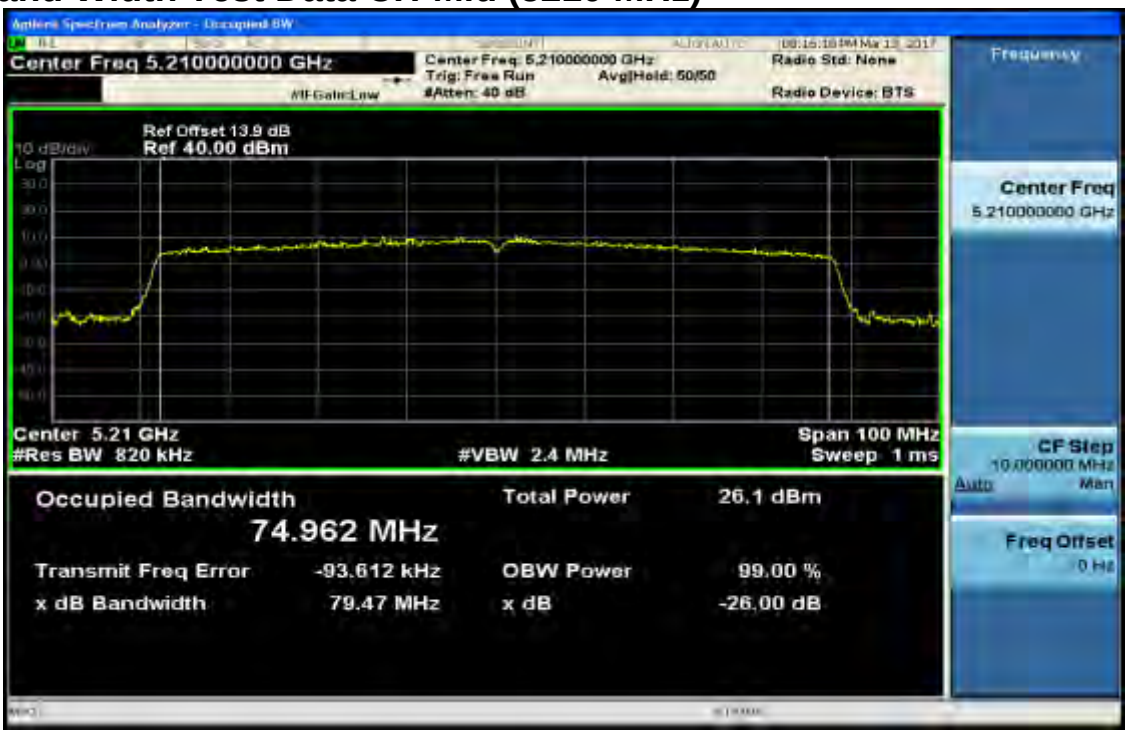
802.11ac VHT80, 5150~5250 MHz (Aux2)
26dB Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3)

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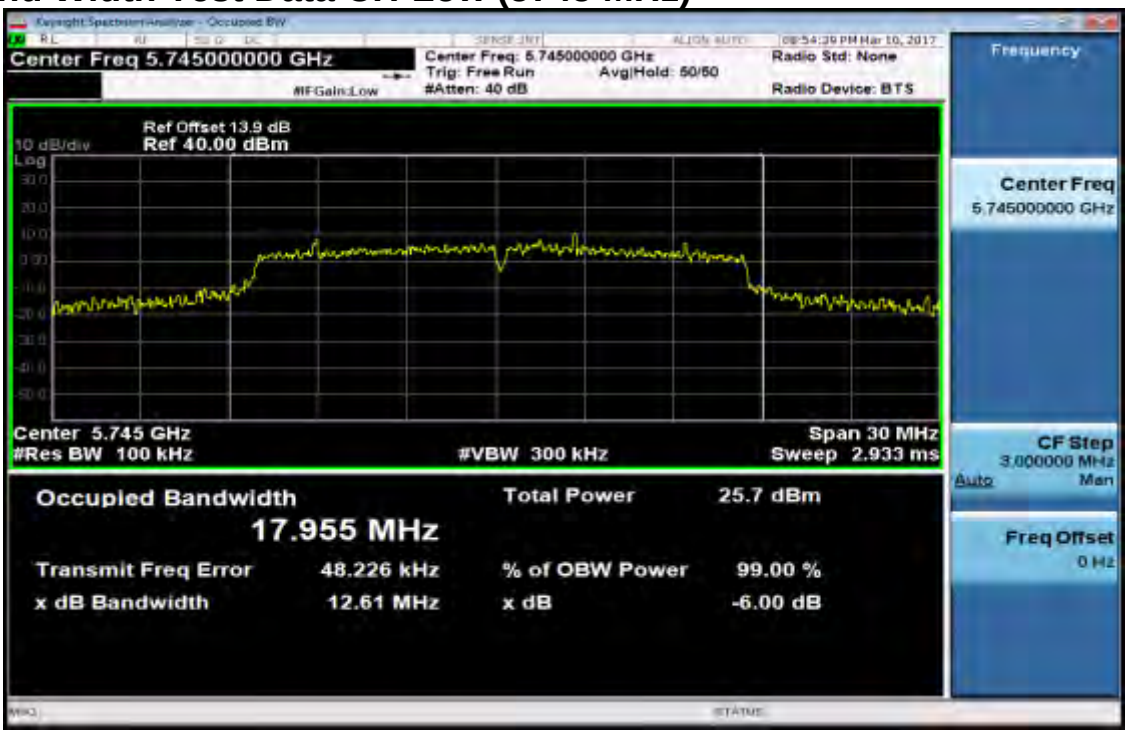
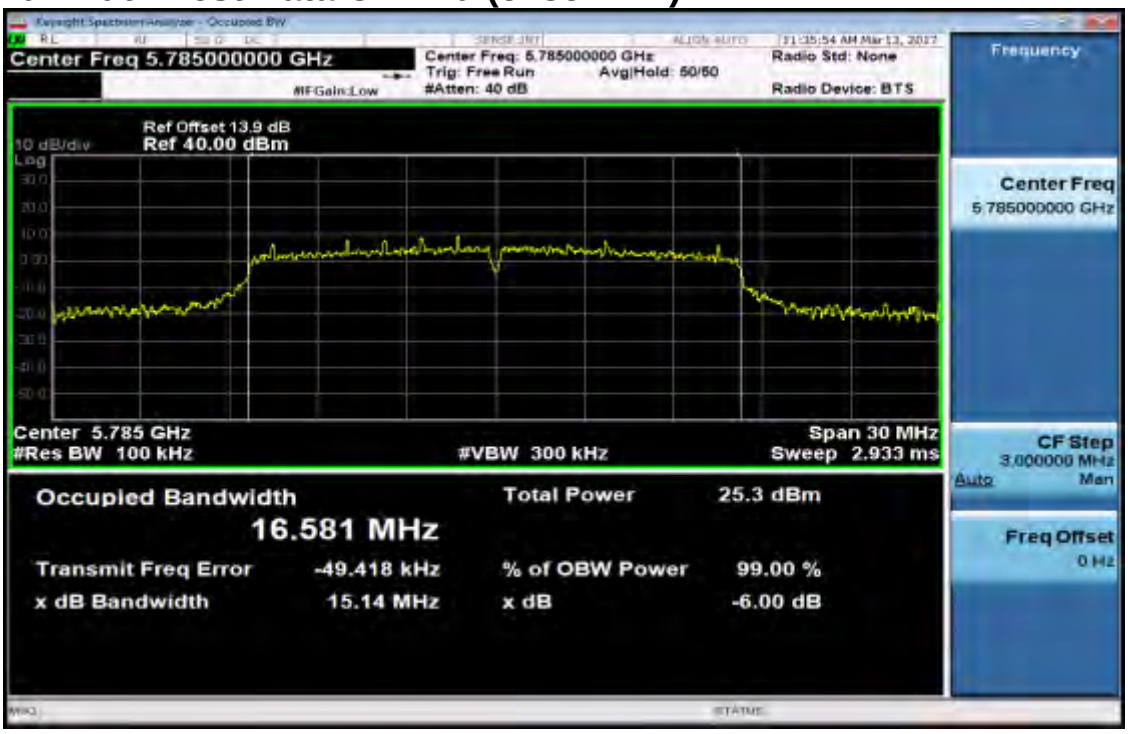
6dB Band Width measure with Peak detector for FCC 802.11a, 5725~5850 MHz (Main)

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



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



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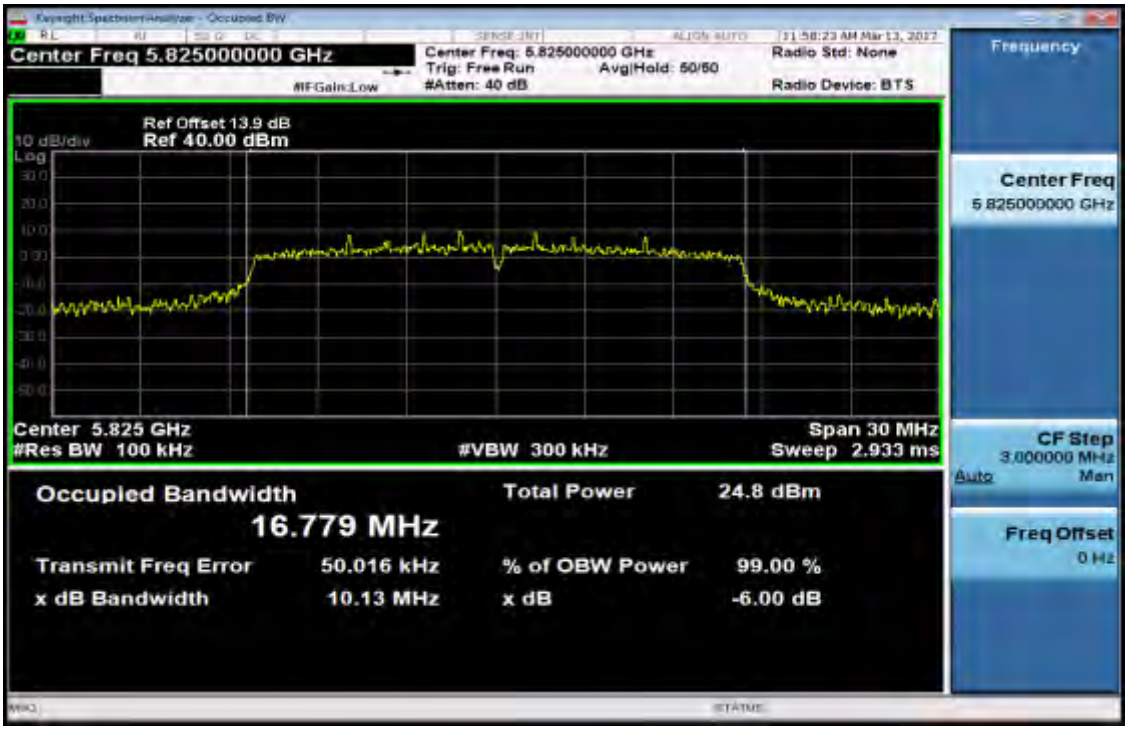
6dB Band Width Test Data CH-High (5825 MHz)



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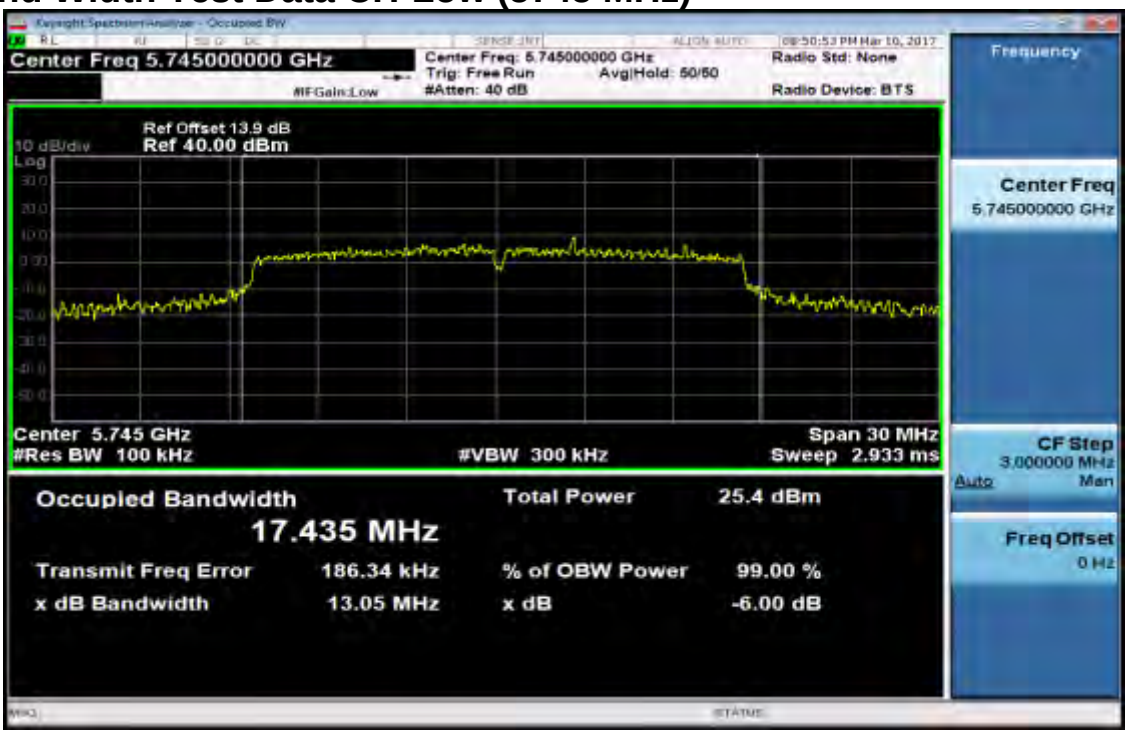
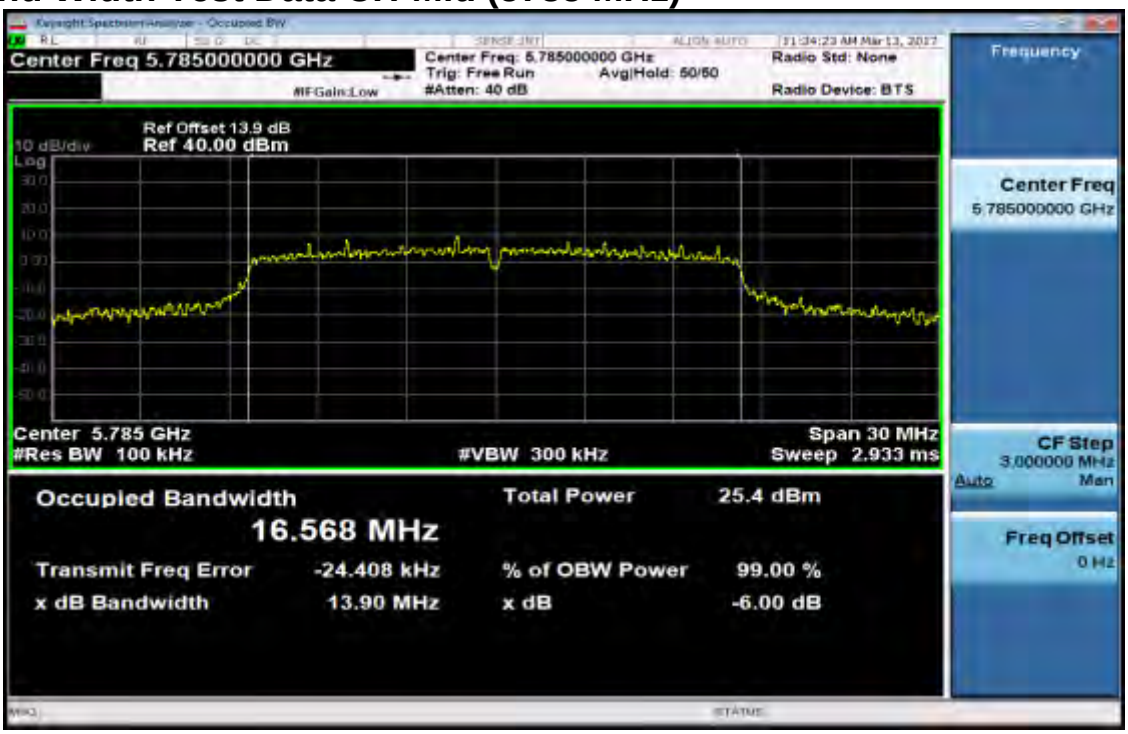
802.11a, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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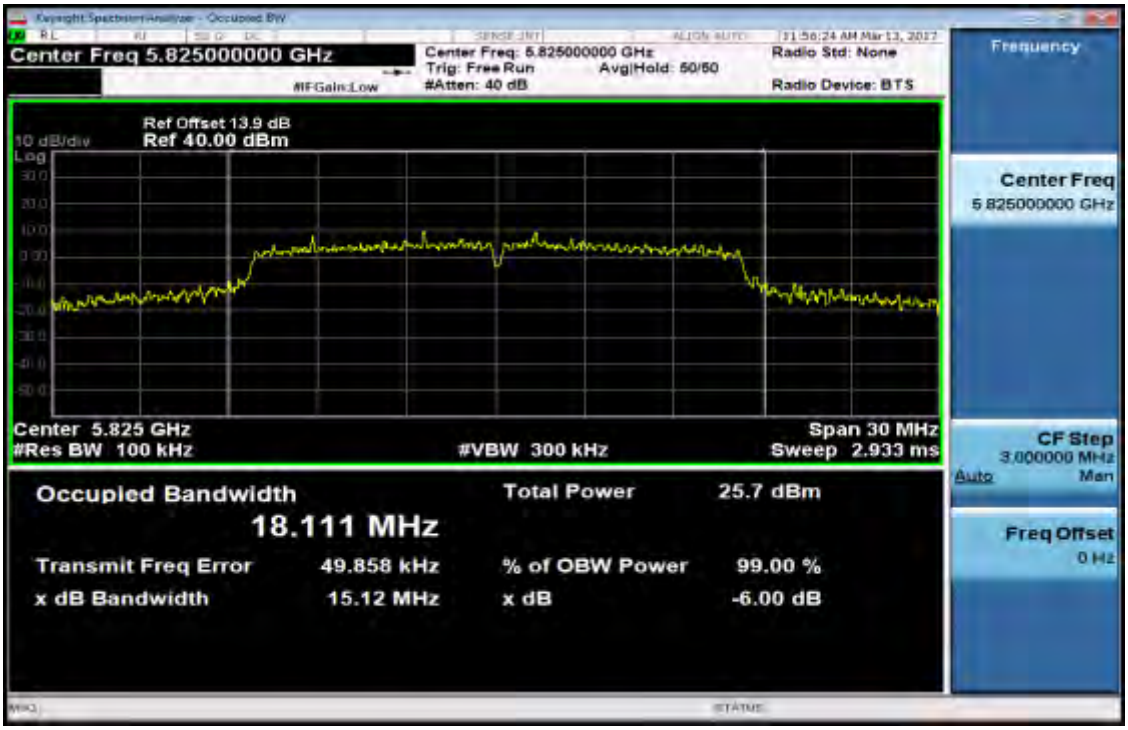
6dB Band Width Test Data CH-High (5825 MHz)



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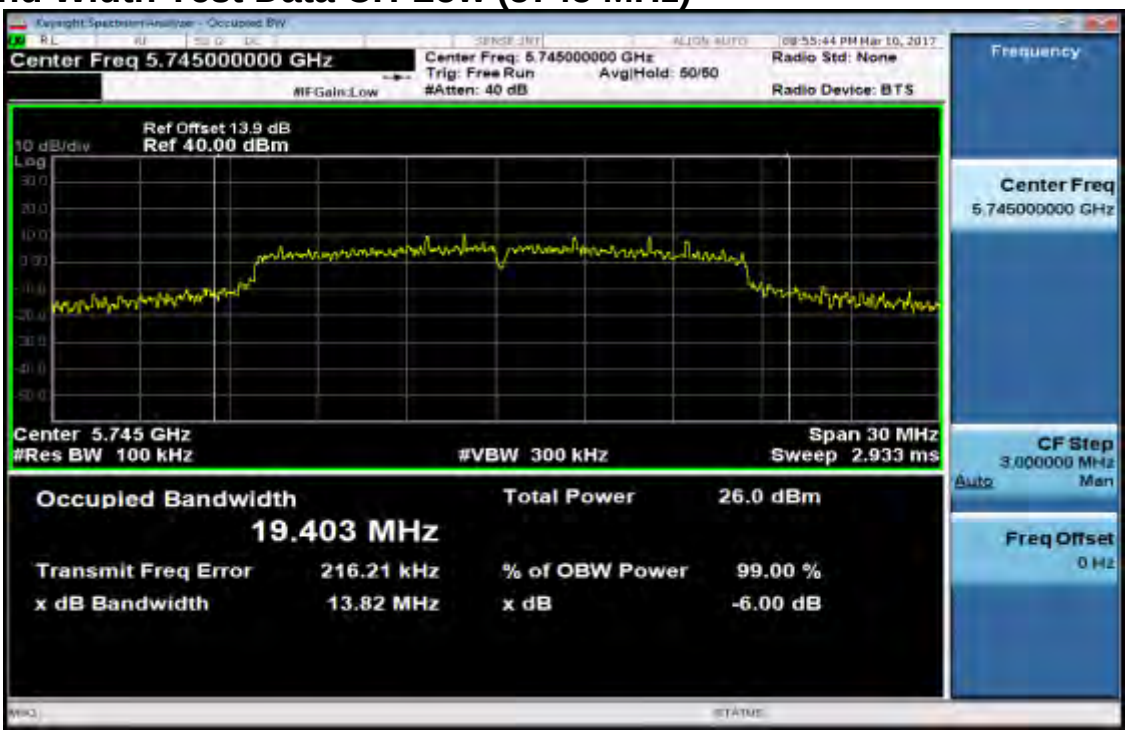
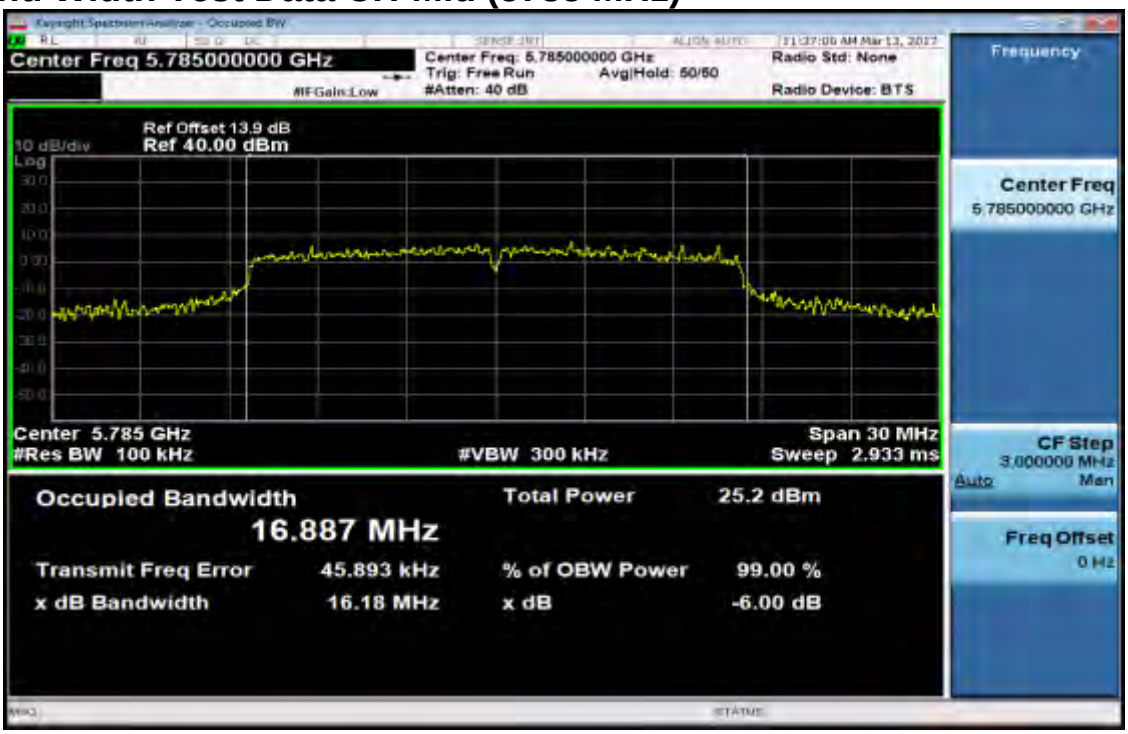
802.11a, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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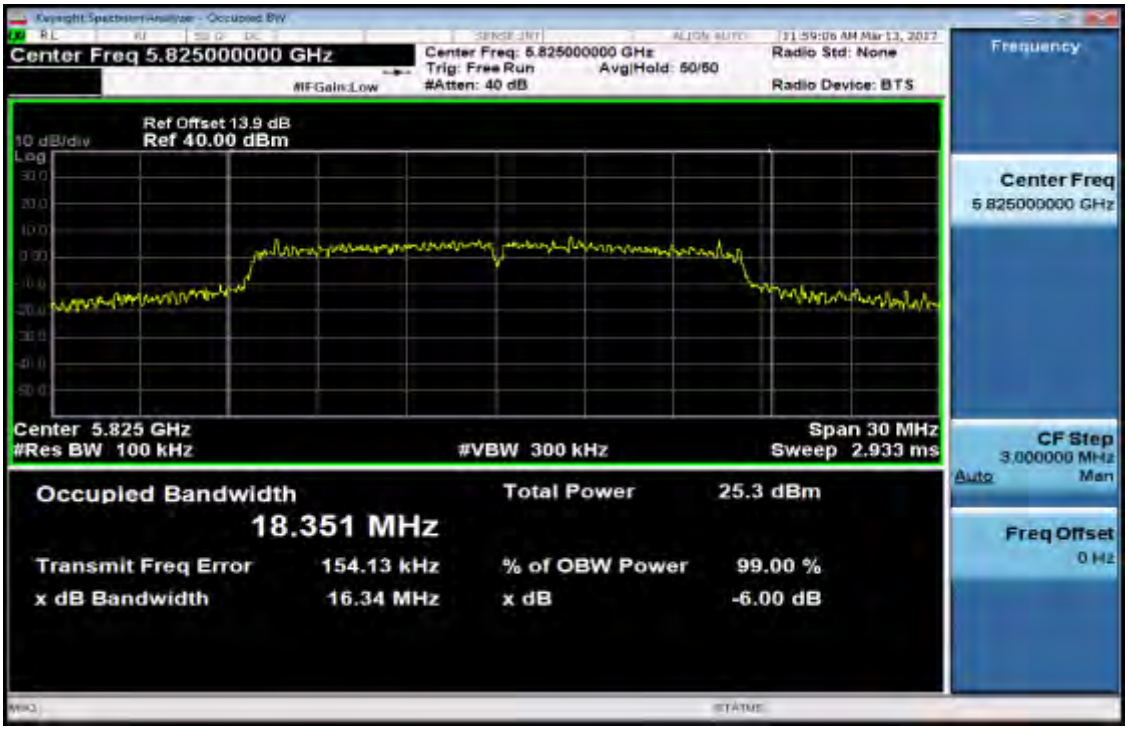

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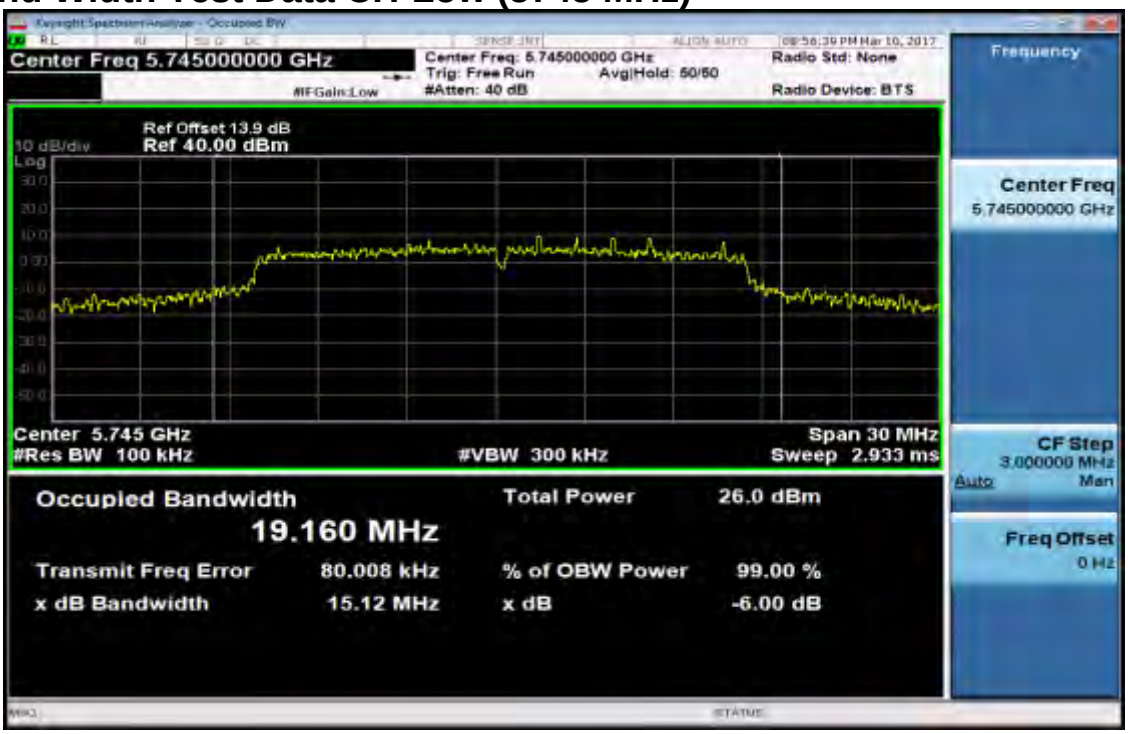
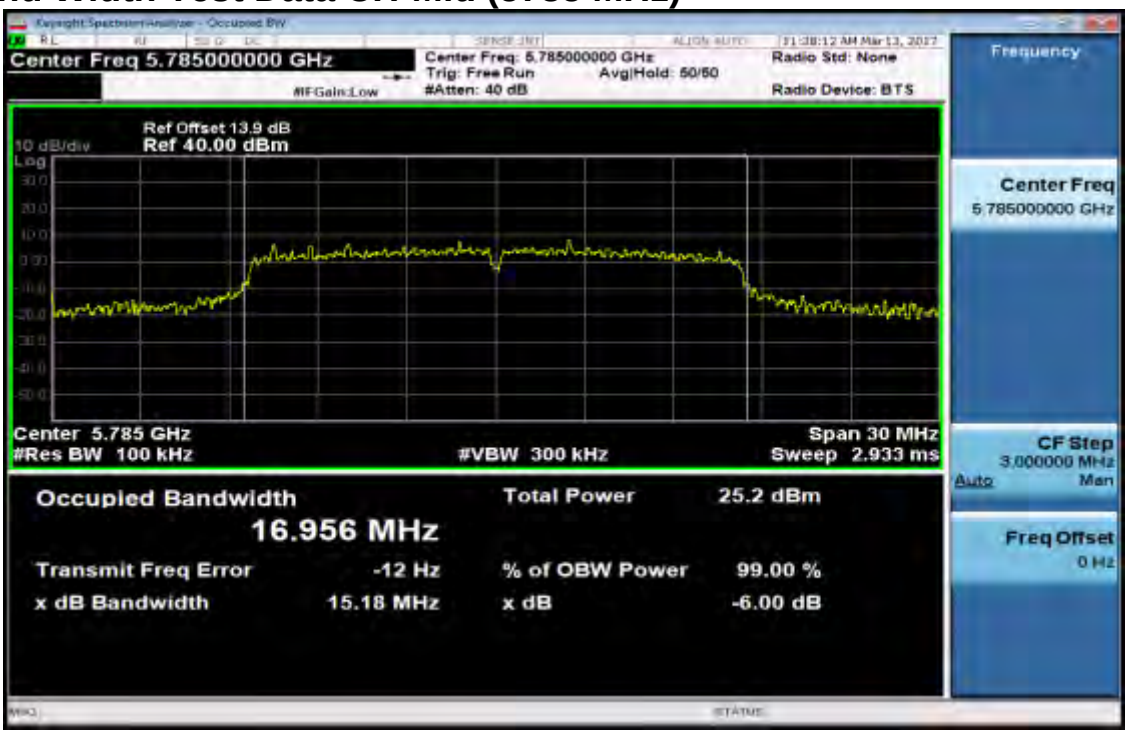
802.11a, 5725~5850 MHz (Aux3)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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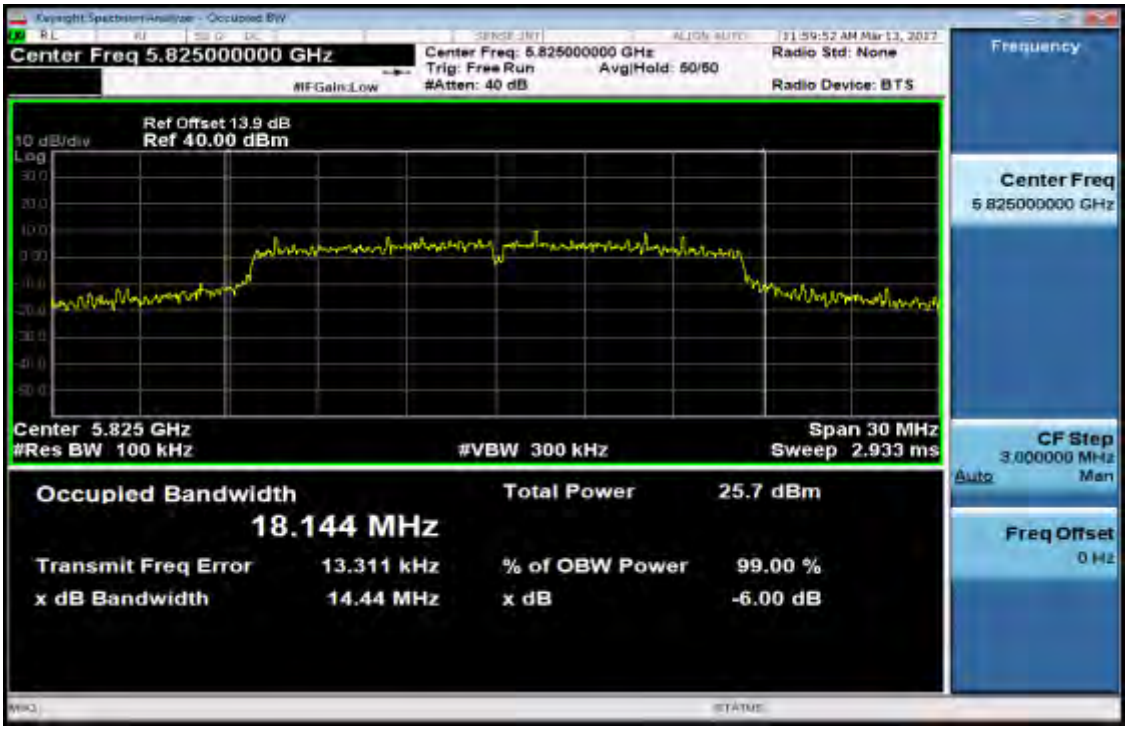
6dB Band Width Test Data CH-High (5825 MHz)



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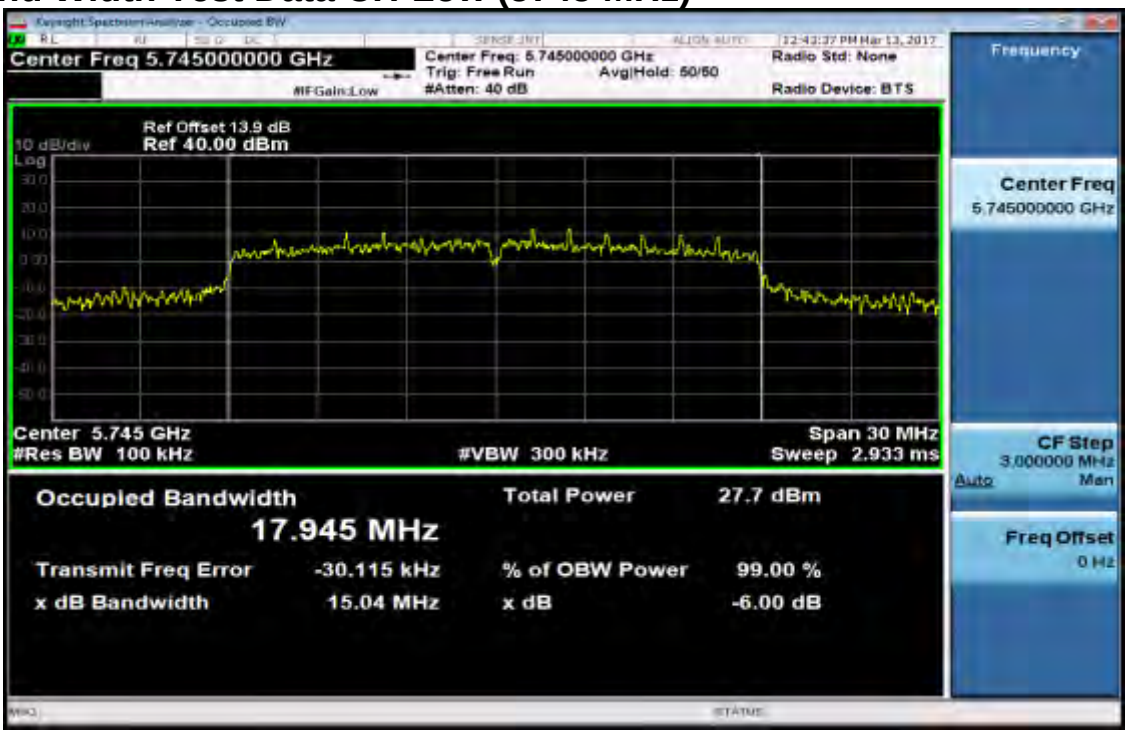
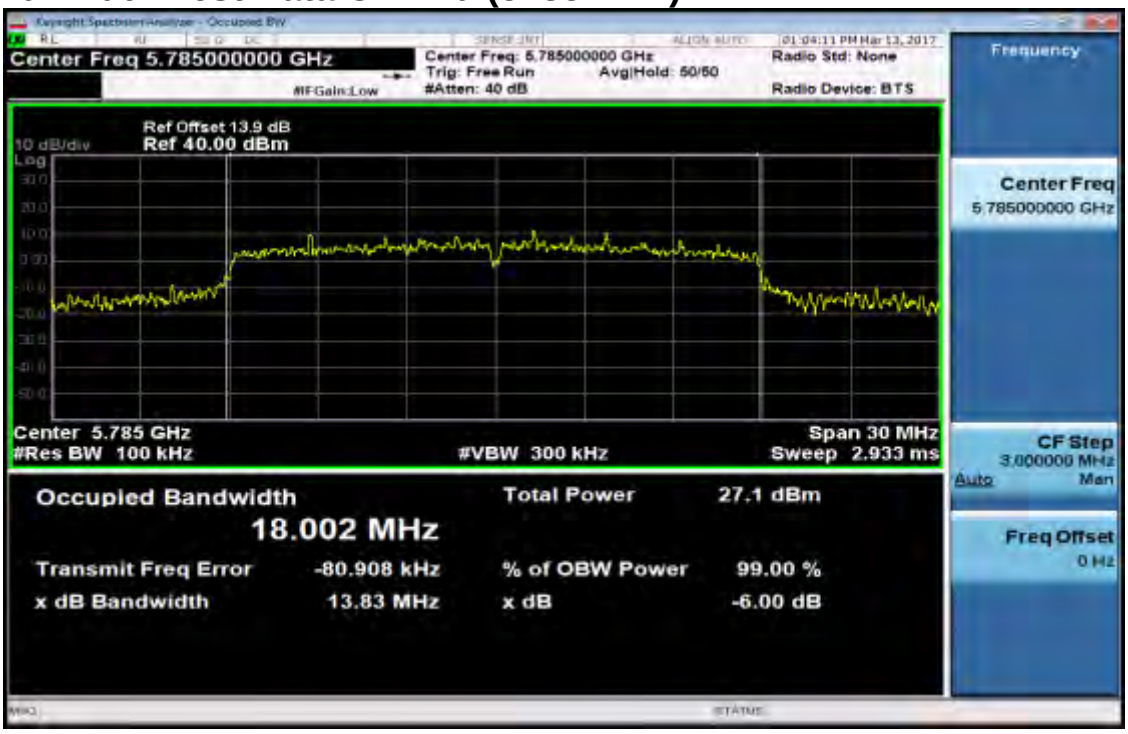
CDD Mode:
802.11n_HT20, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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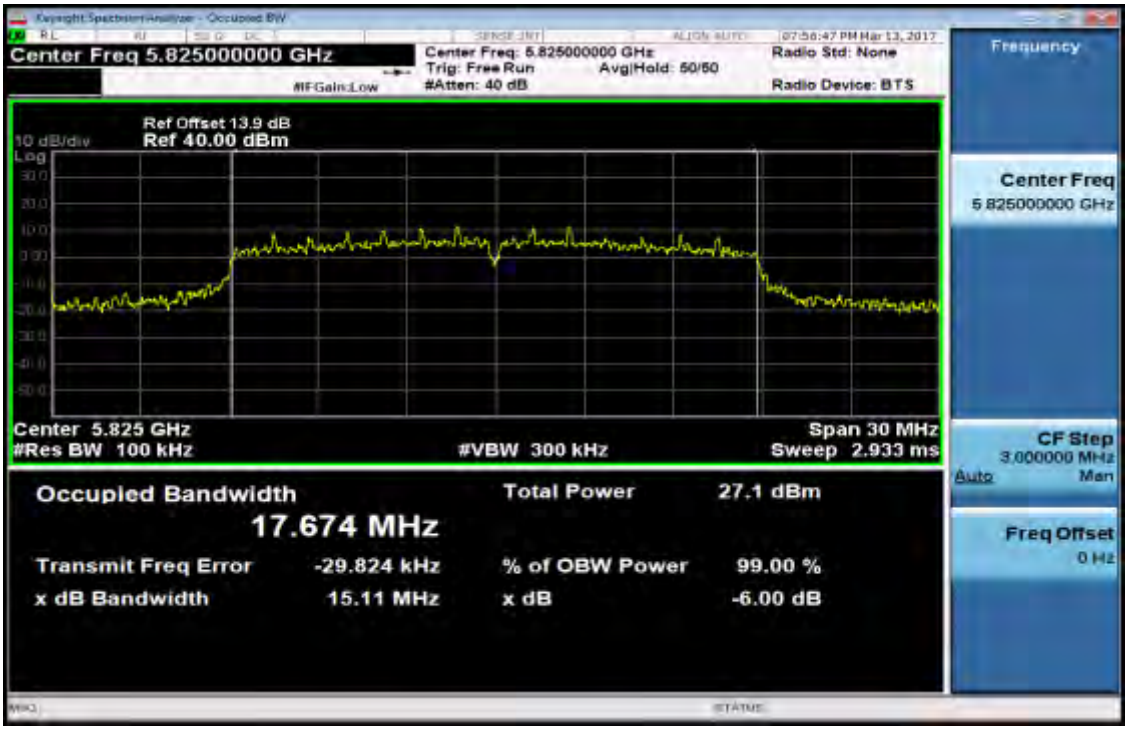
6dB Band Width Test Data CH-High (5825 MHz)



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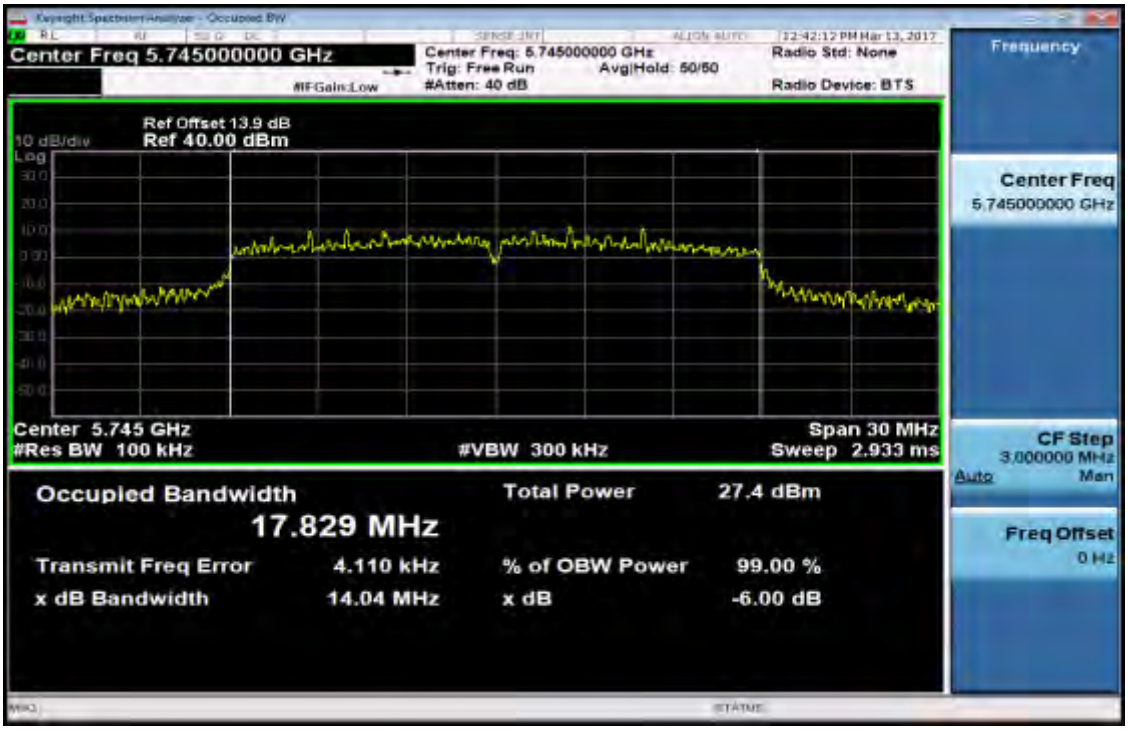
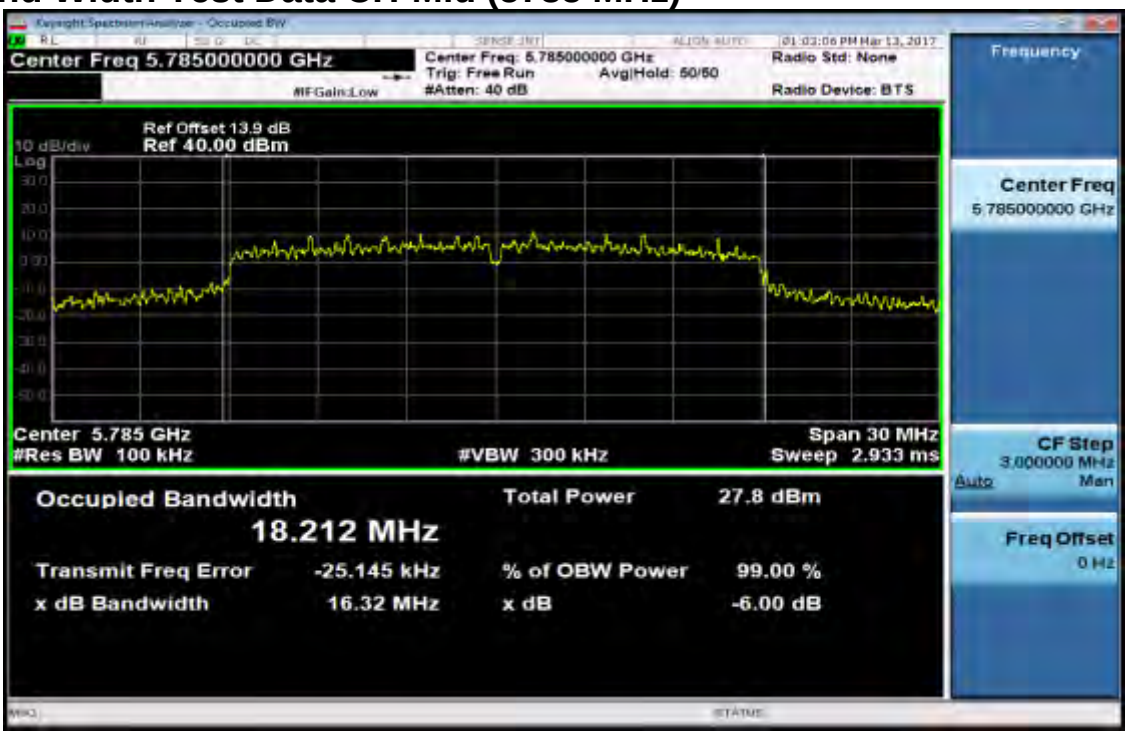
802.11n_HT20, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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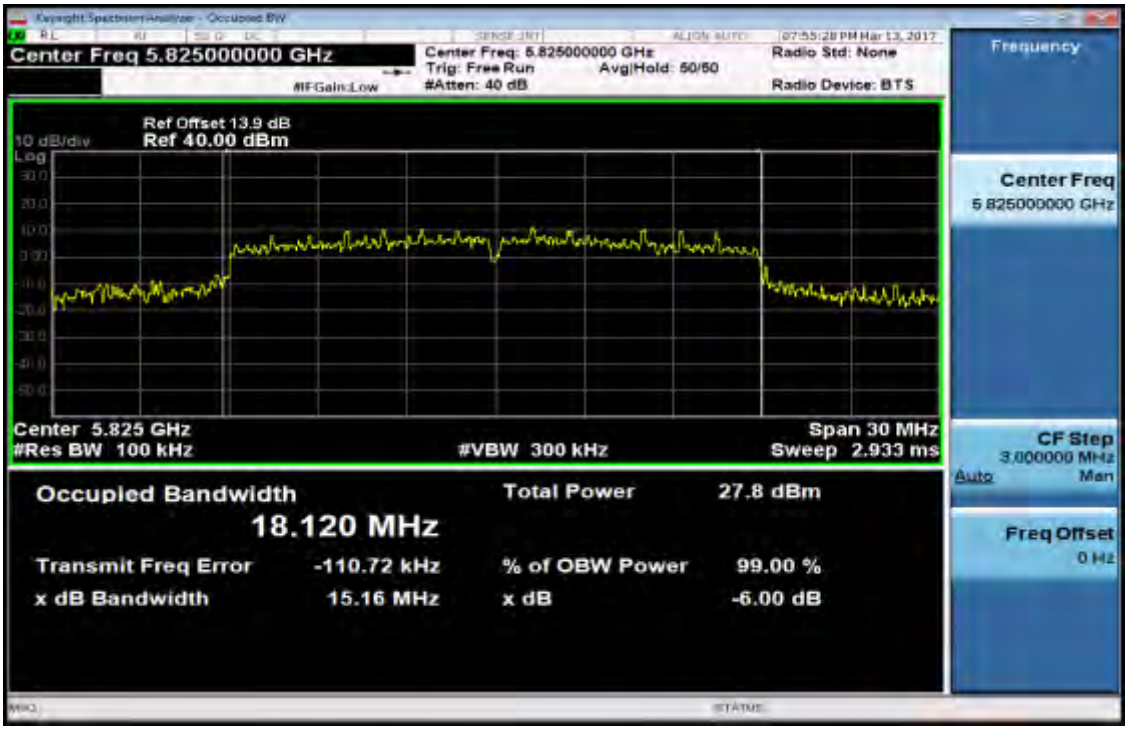
6dB Band Width Test Data CH-High (5825 MHz)



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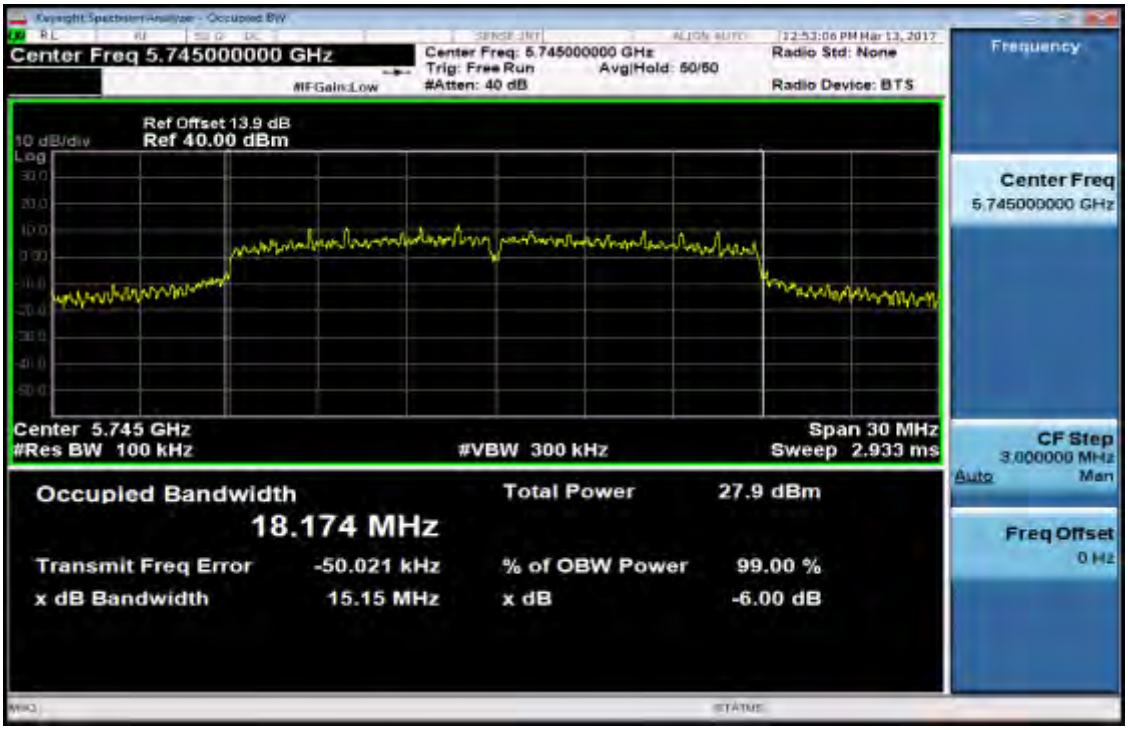
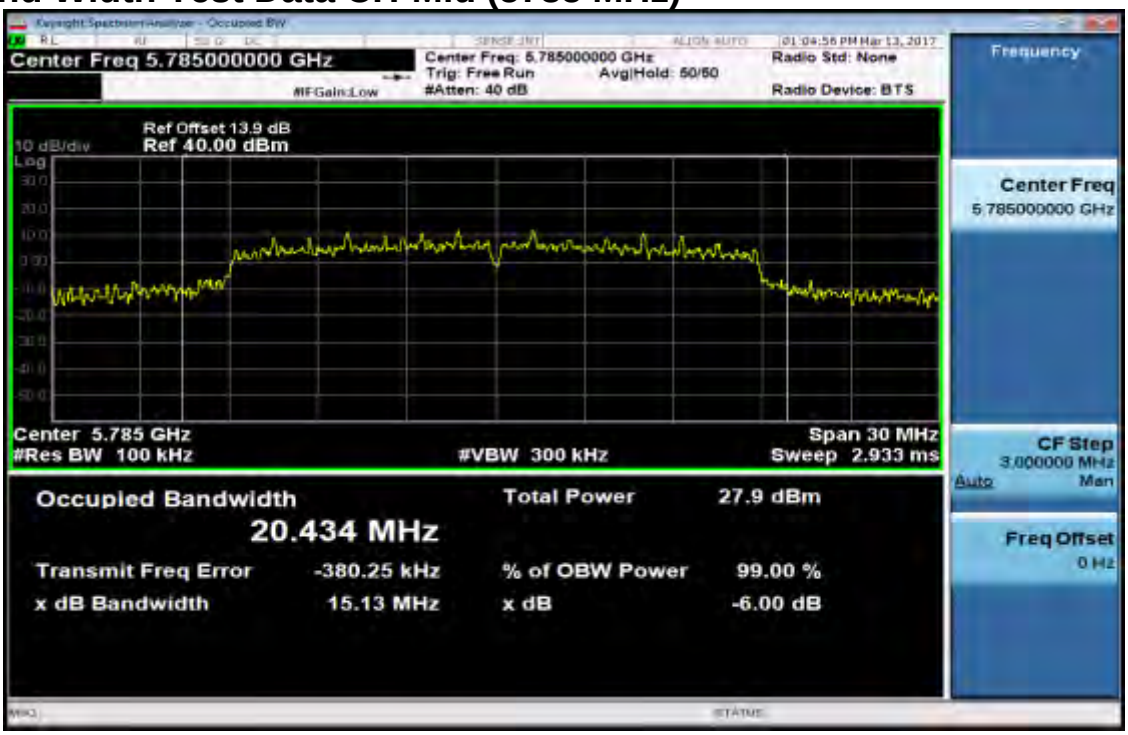
802.11n_HT20, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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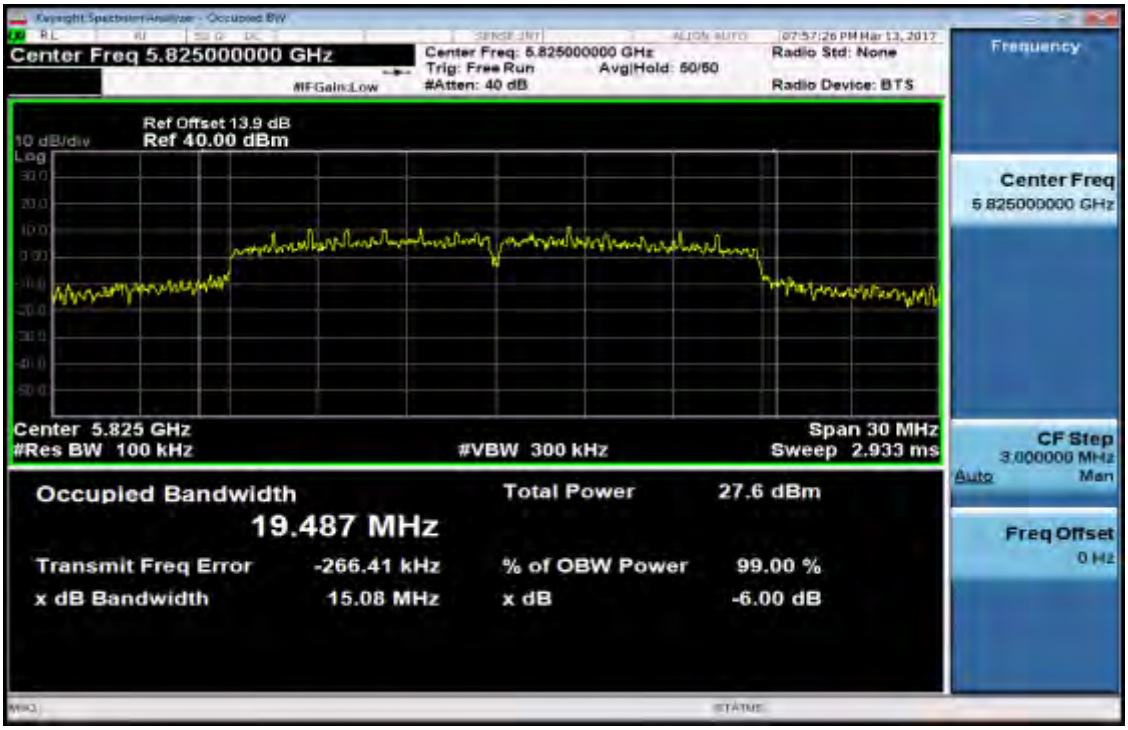
6dB Band Width Test Data CH-High (5825 MHz)



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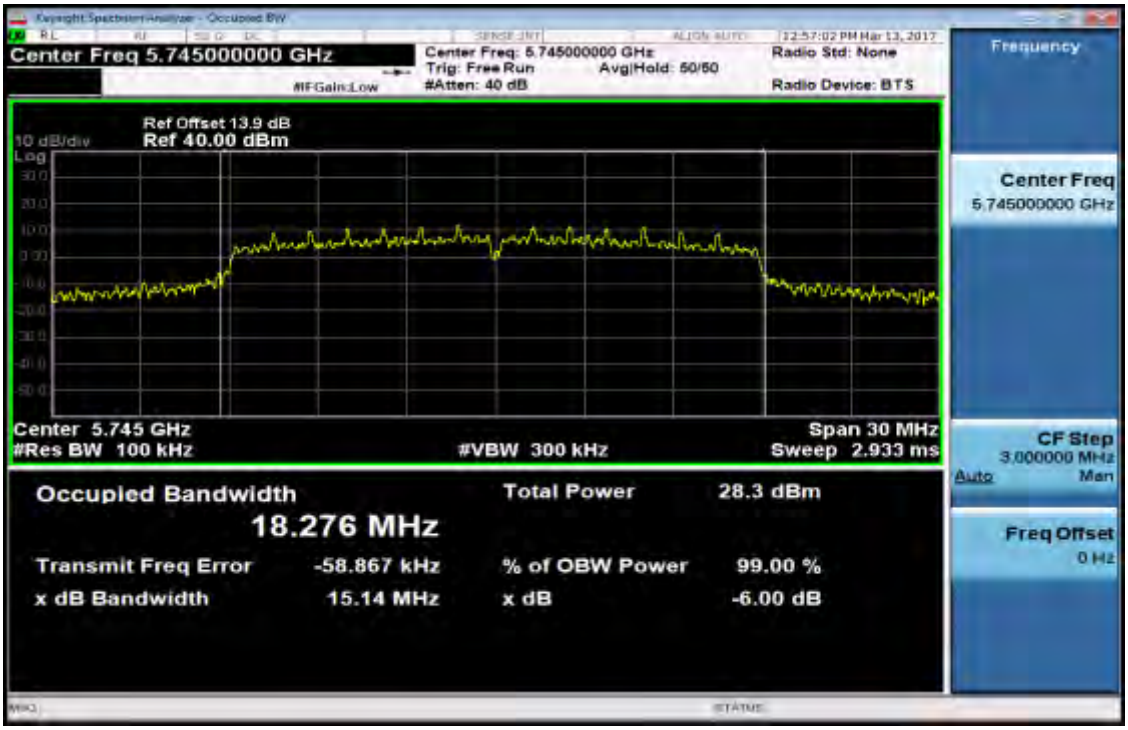
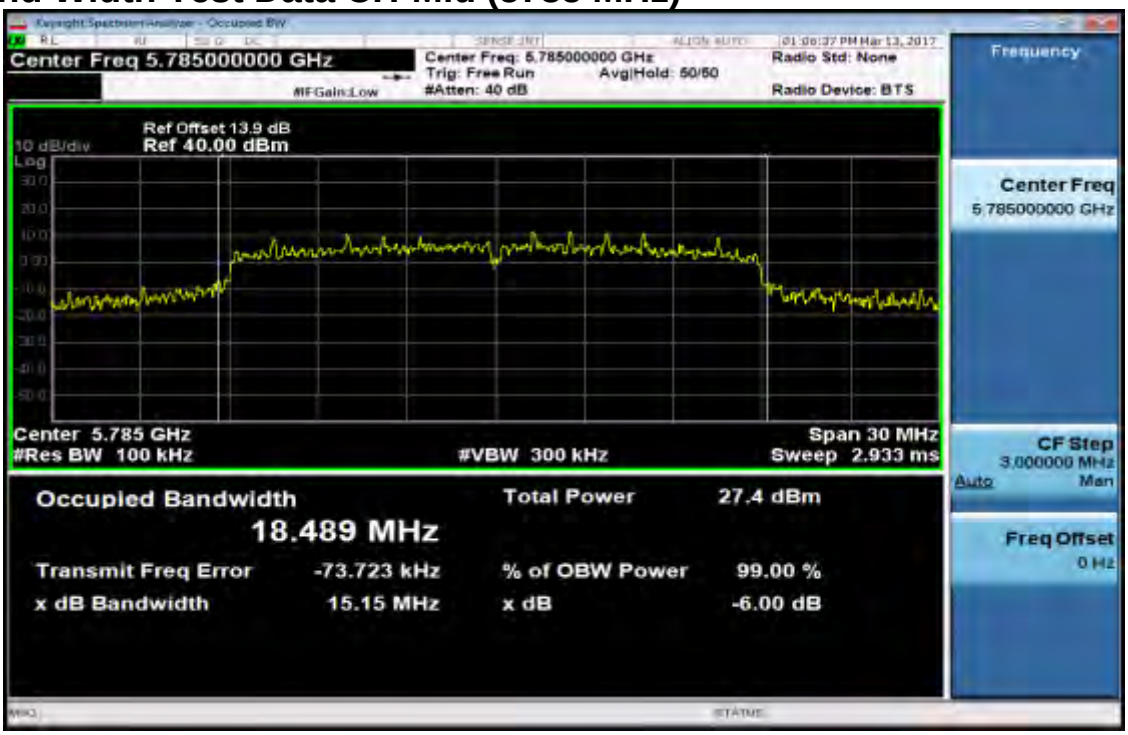
802.11n_HT20, 5725~5850 MHz (Aux3)
6dB Band Width Test Data CH-Low (5745 MHz)



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



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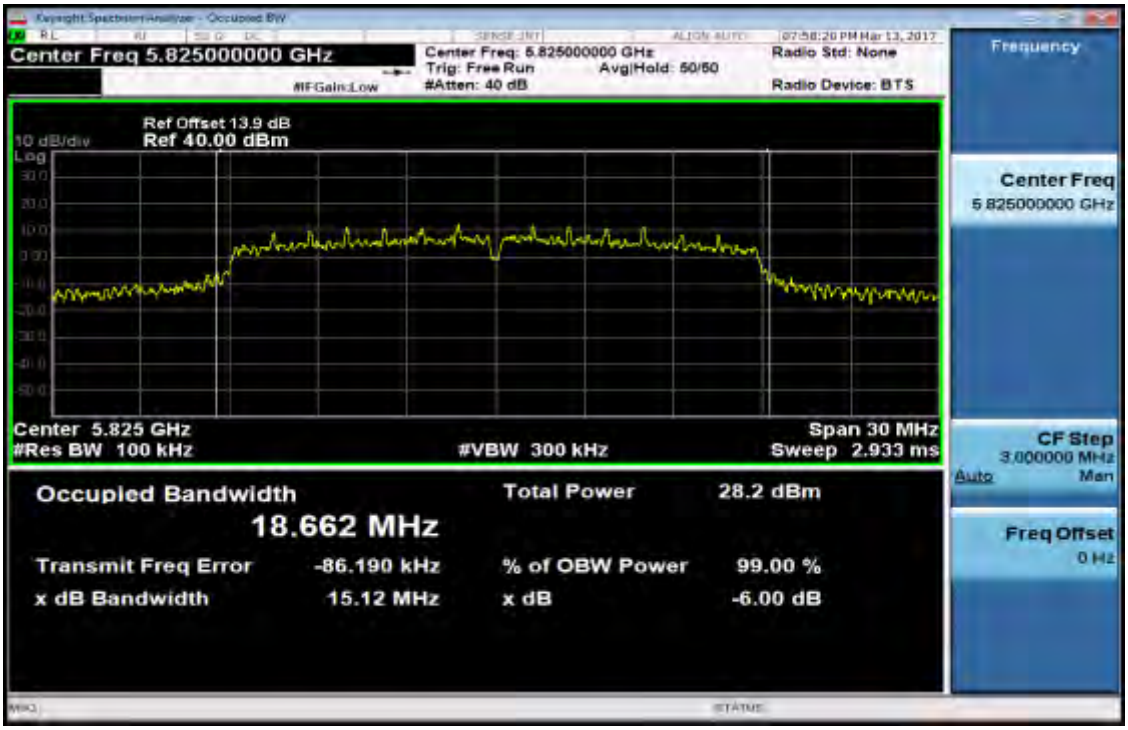
6dB Band Width Test Data CH-High (5825 MHz)



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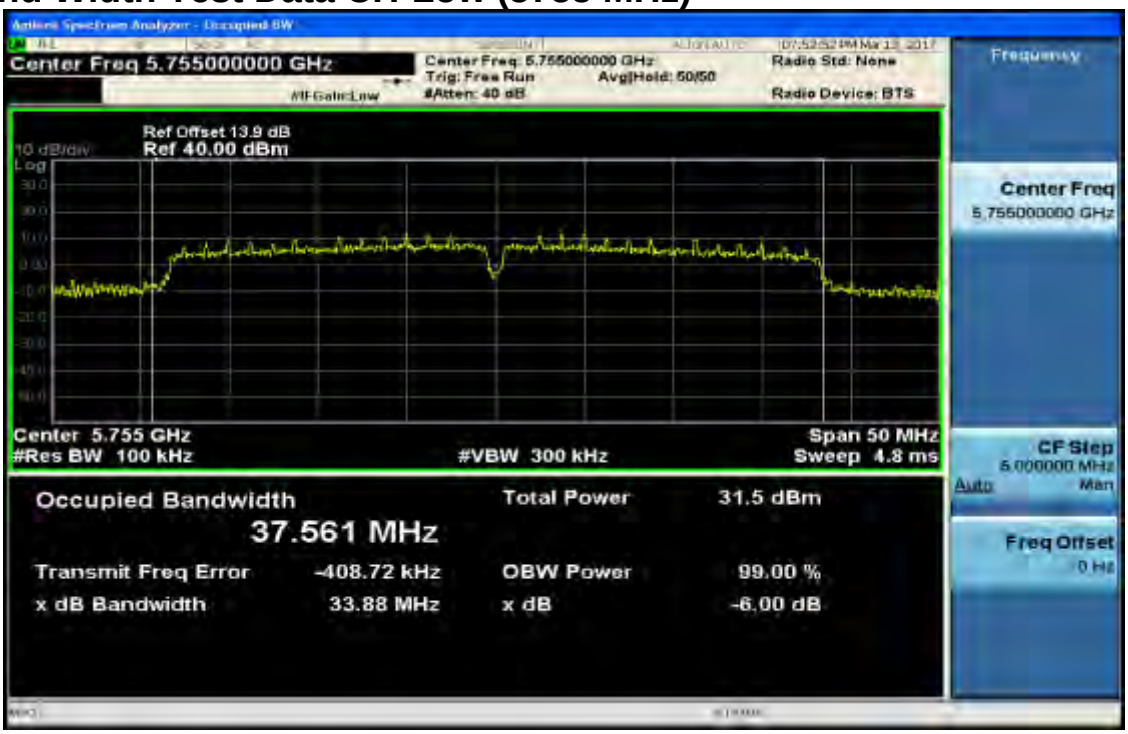
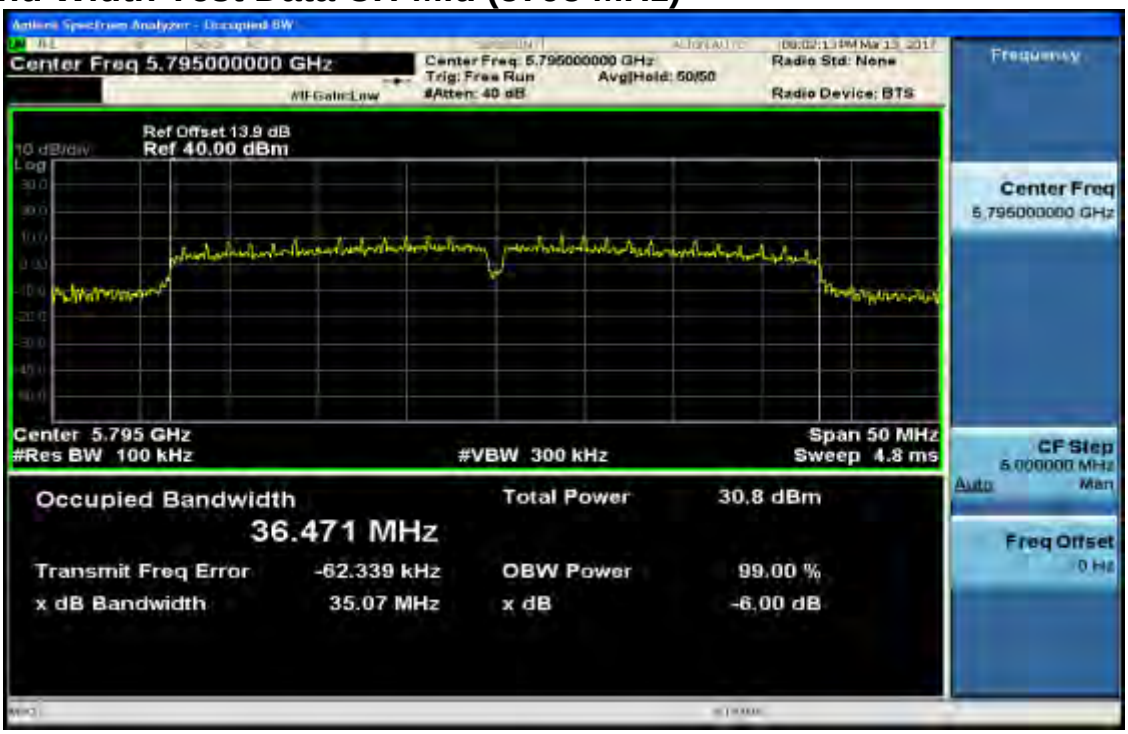
802.11n_HT40, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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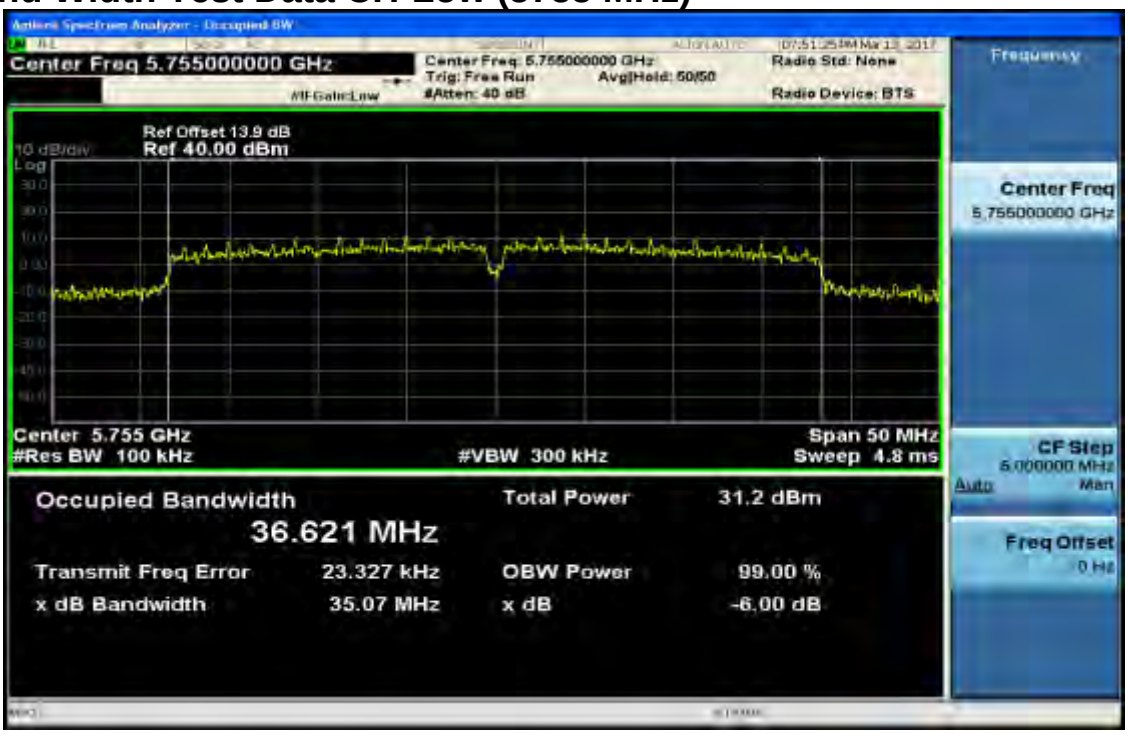
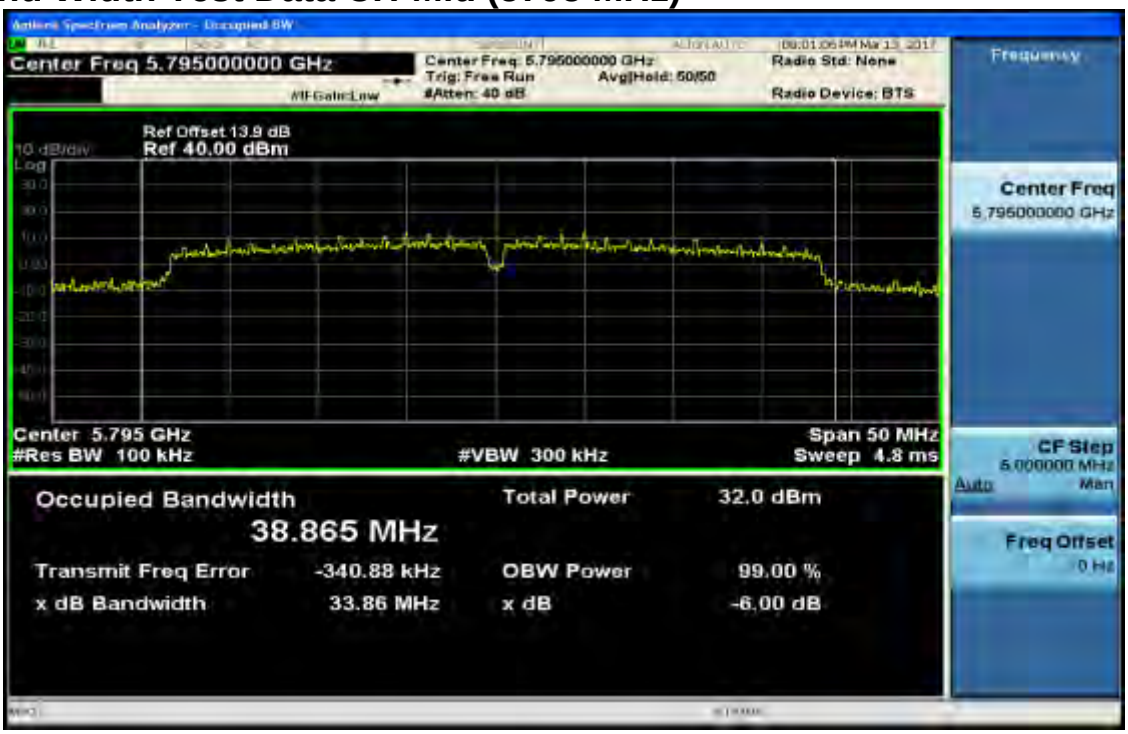
802.11n_HT40, 5725~5850 MHz (Aux1)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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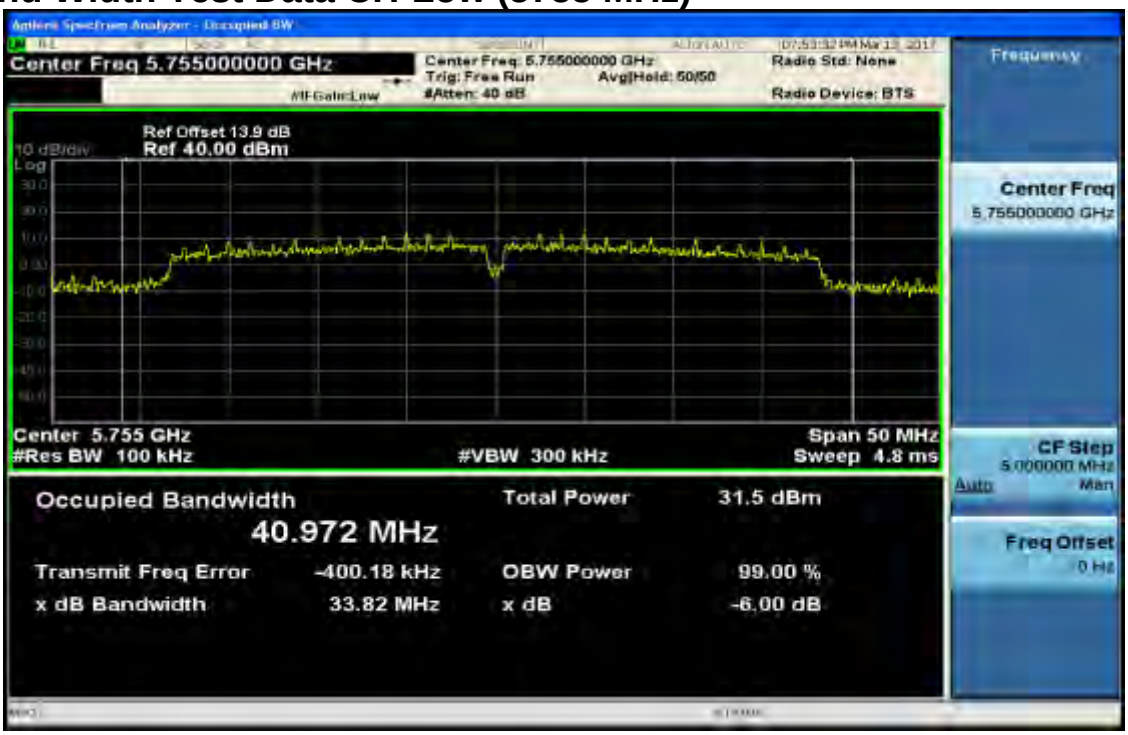
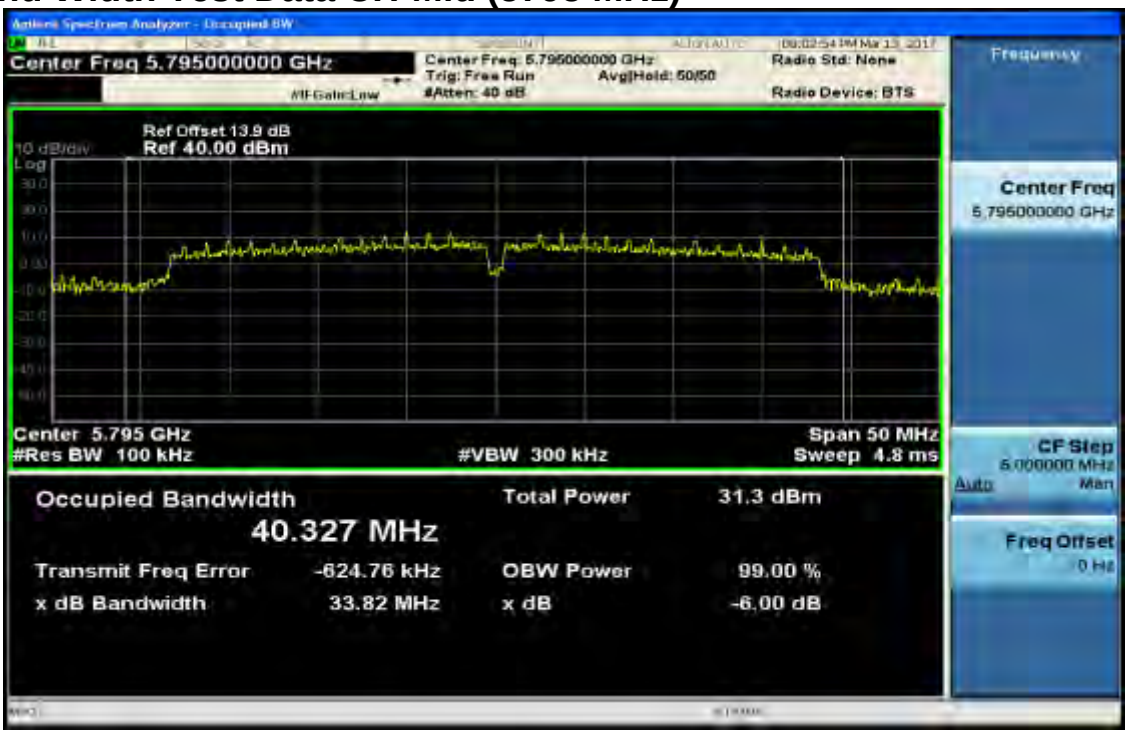
802.11n_HT40, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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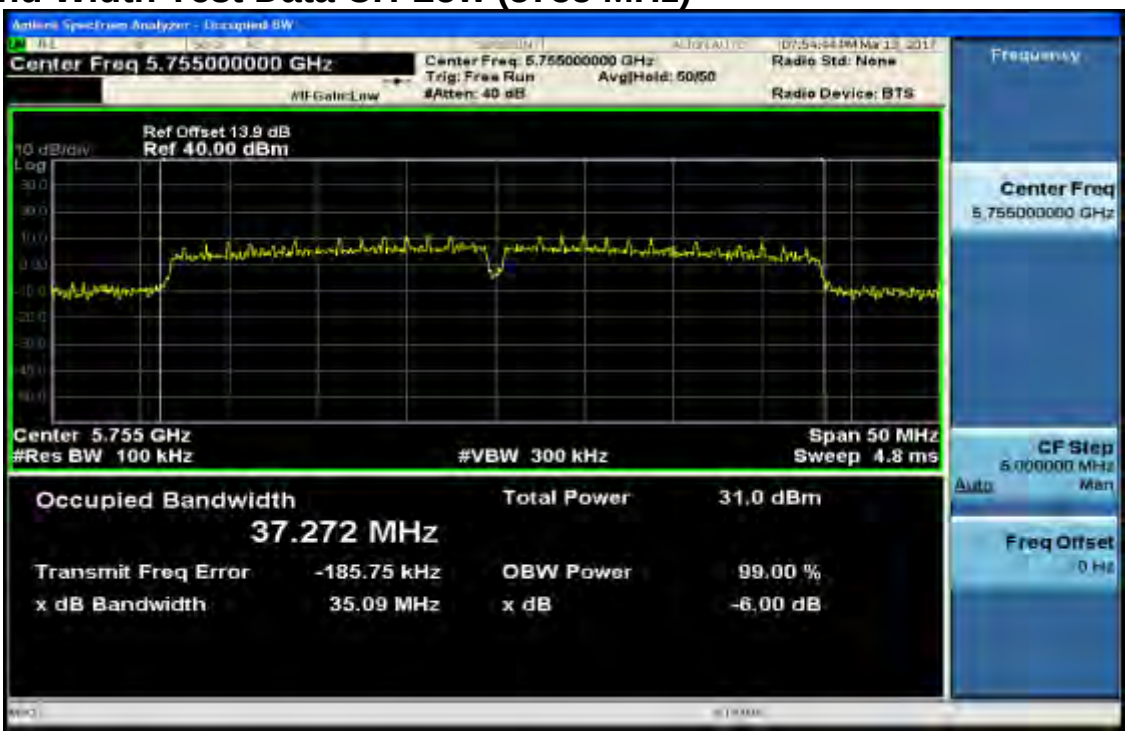
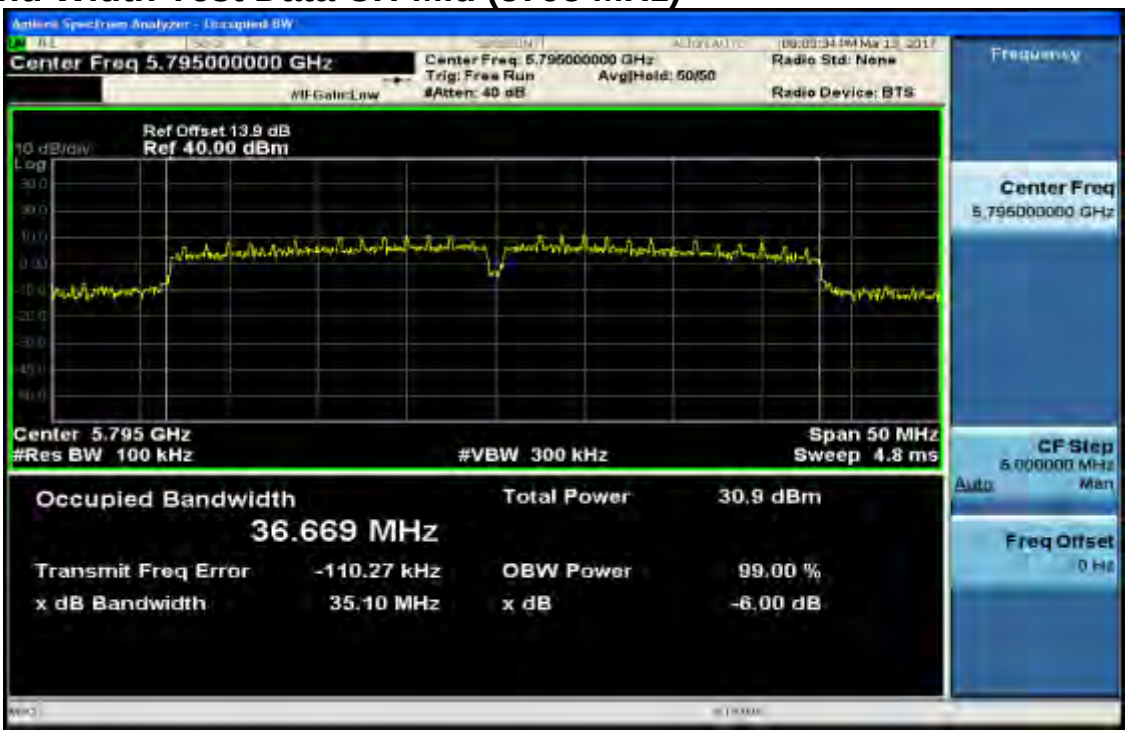
802.11n_HT40, 5725~5850 MHz (Aux3)
6dB Band Width Test Data CH-Low (5755 MHz)



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



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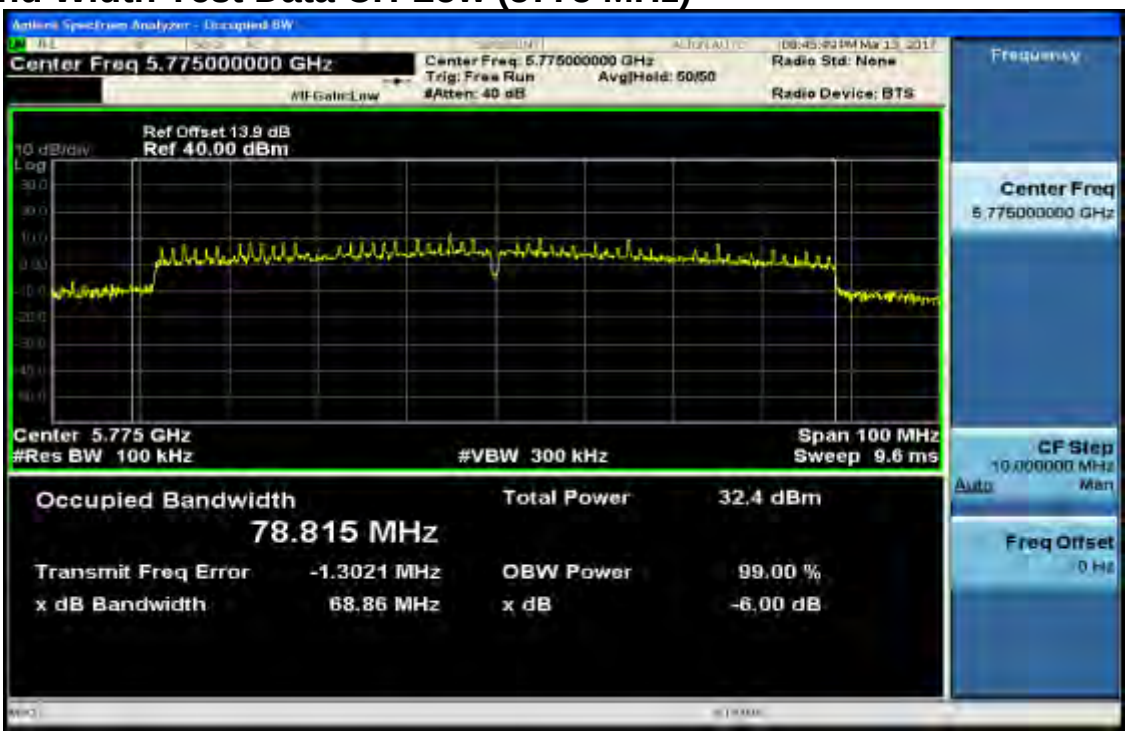
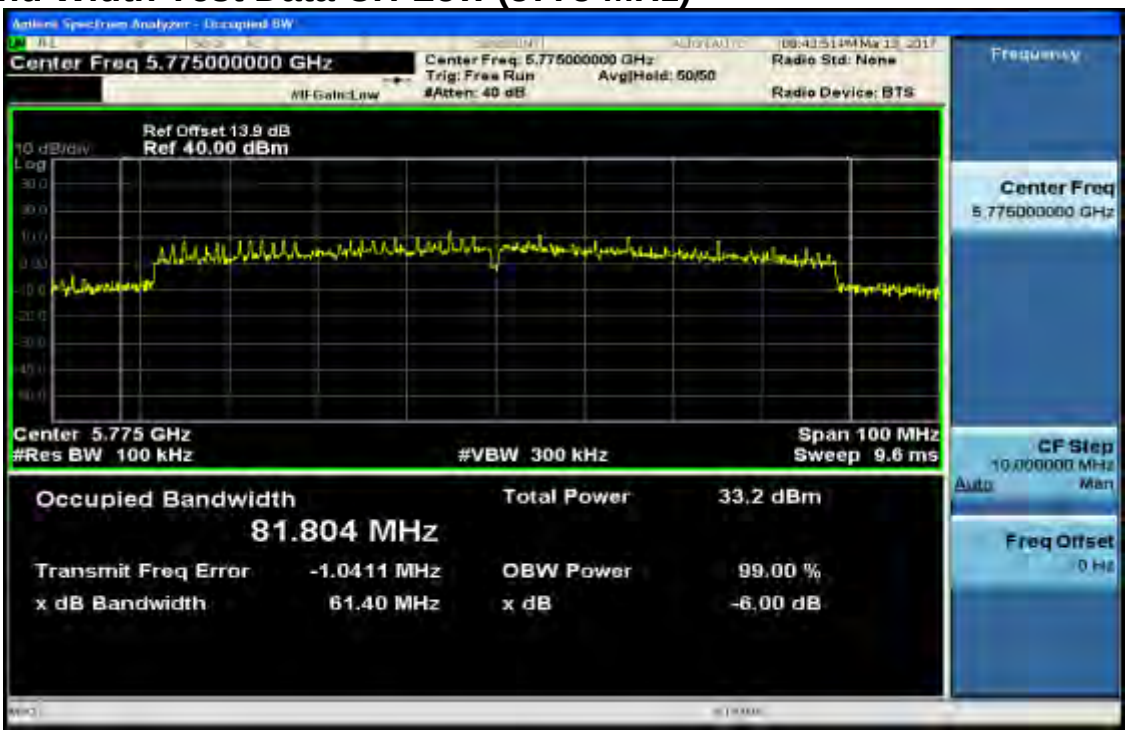
802.11ac VHT80, 5725~5850 MHz (Main)
6dB Band Width Test Data CH-Low (5775 MHz)



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



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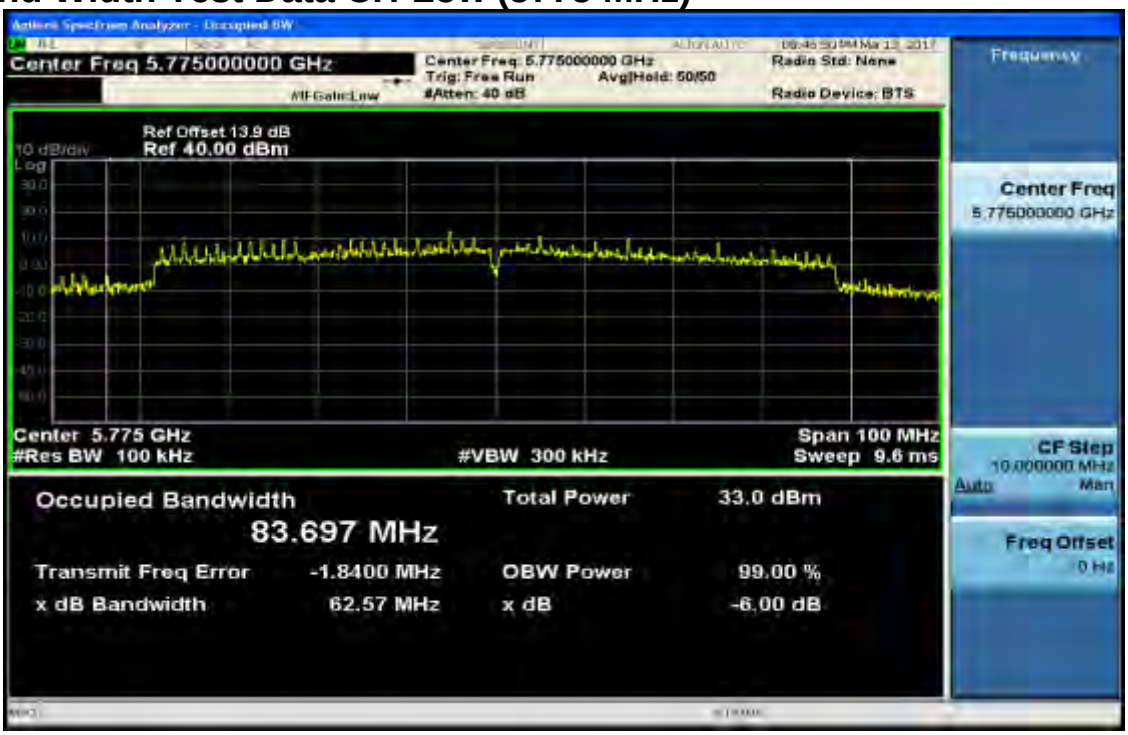
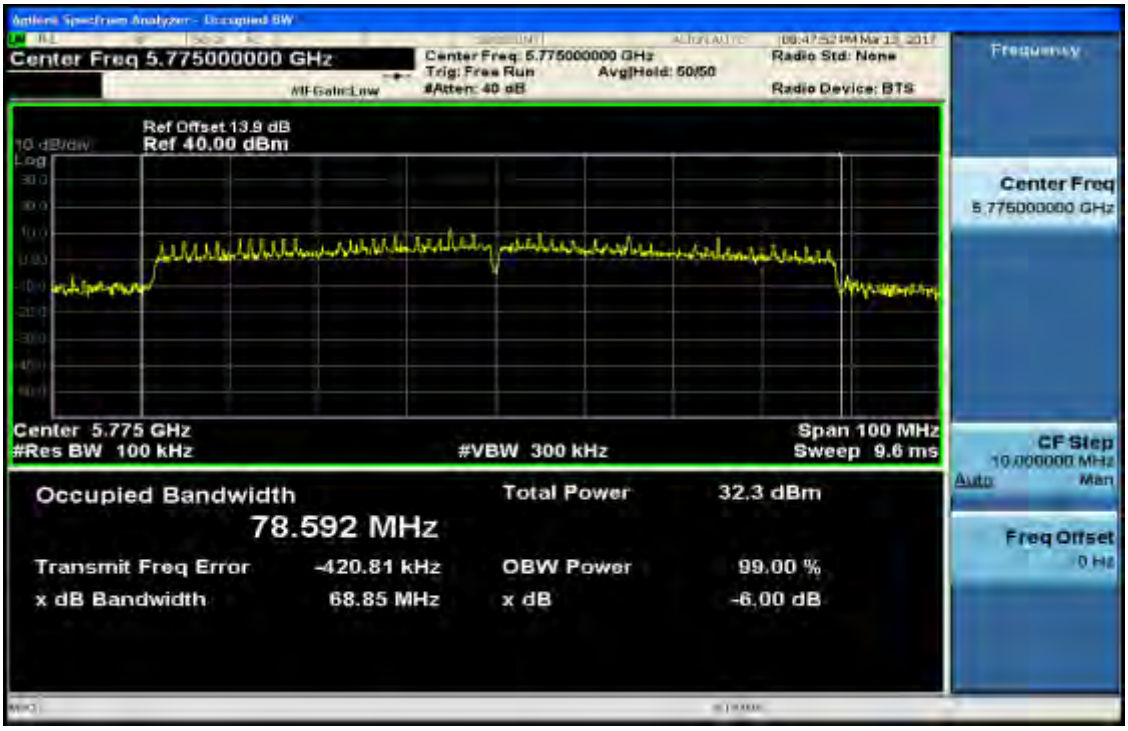
802.11ac VHT80, 5725~5850 MHz (Aux2)
6dB Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux3)
6dB Band Width Test Data CH-Low (5775 MHz)



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802.11a, 5150~5250 MHz (Main)
99% Band Width Test Data CH-High (5240MHz)

802.11a, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-High (5240MHz)

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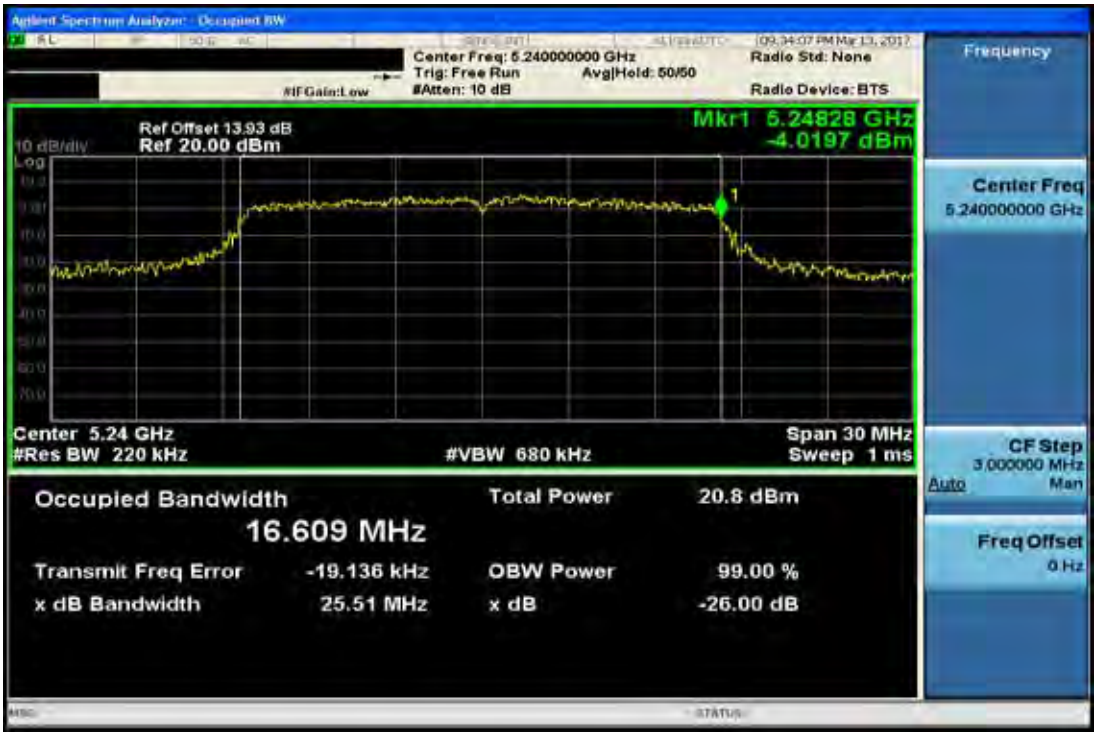
802.11a, 5150~5250 MHz (Aux2)
99% Band Width Test Data CH-High (5240MHz)



802.11a, 5150~5250 MHz (Aux3)
99% Band Width Test Data CH-High (5240MHz)

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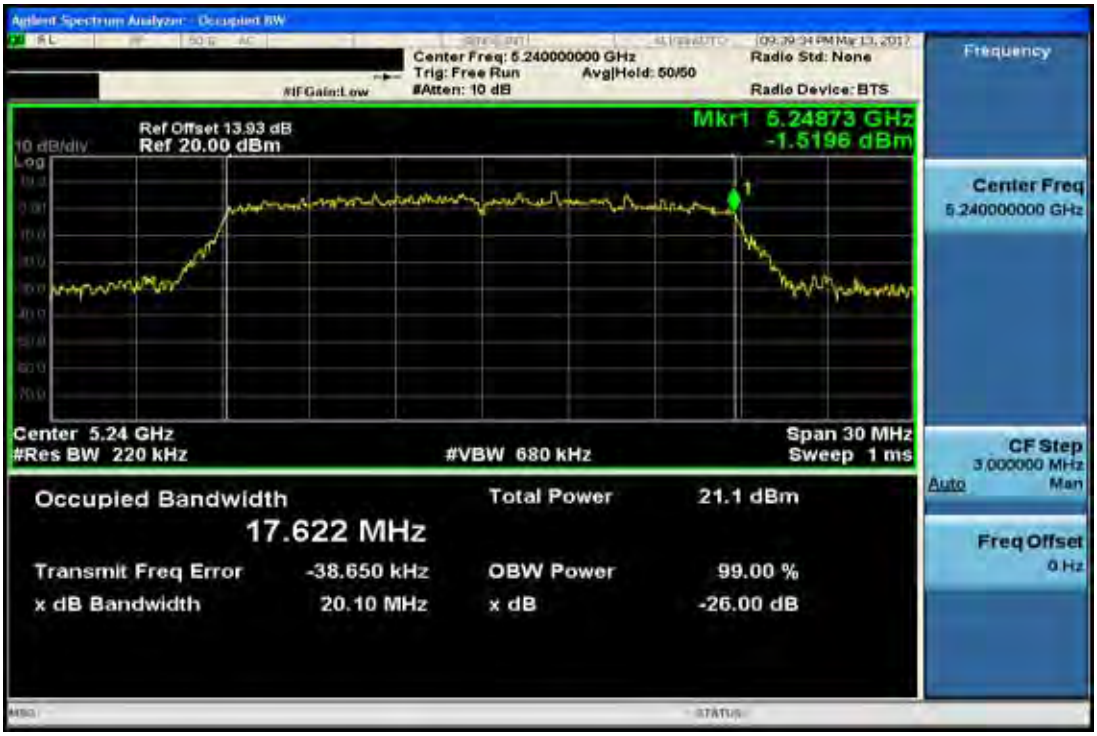
CDD Mode:
802.11n HT20, 5150~5250 MHz (Main)
99% Band Width Test Data CH-High (5240 MHz)

802.11n HT20, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-High (5240 MHz)



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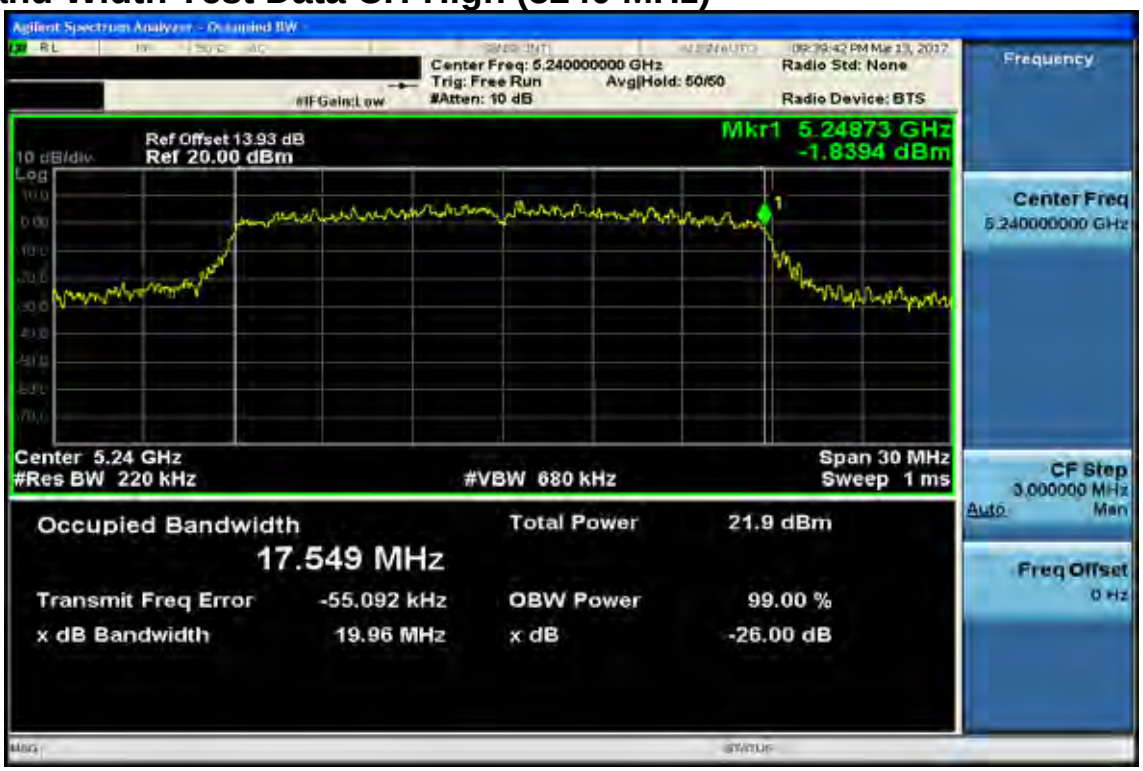
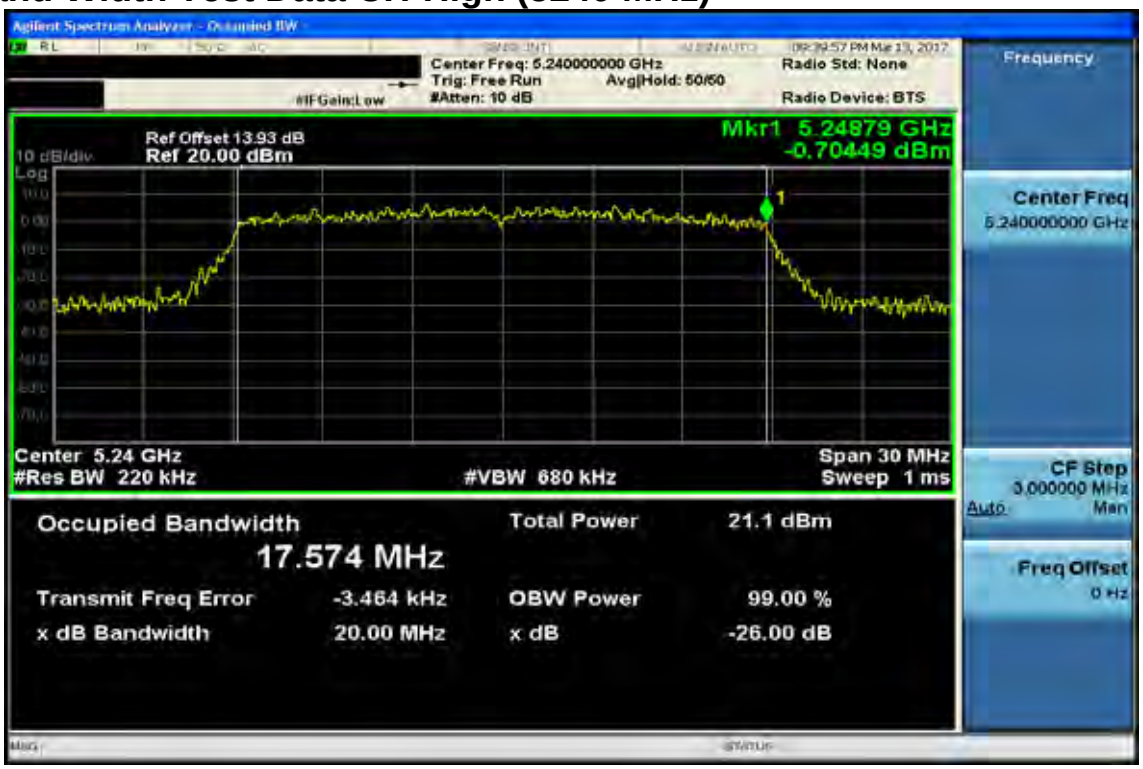
802.11n HT20, 5150~5250 MHz (Aux2)
99% Band Width Test Data CH-High (5240 MHz)



802.11n HT20, 5150~5250 MHz (Aux3)
99% Band Width Test Data CH-High (5240 MHz)



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802.11n HT40, 5150~5250 MHz (Main)
99% Band Width Test Data CH-High (5230 MHz)

802.11n HT40, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-High (5230 MHz)

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802.11n HT40, 5150~5250 MHz (Aux2)
99% Band Width Test Data CH-High (5230 MHz)

802.11n HT40, 5150~5250 MHz (Aux3)
99% Band Width Test Data CH-High (5230 MHz)

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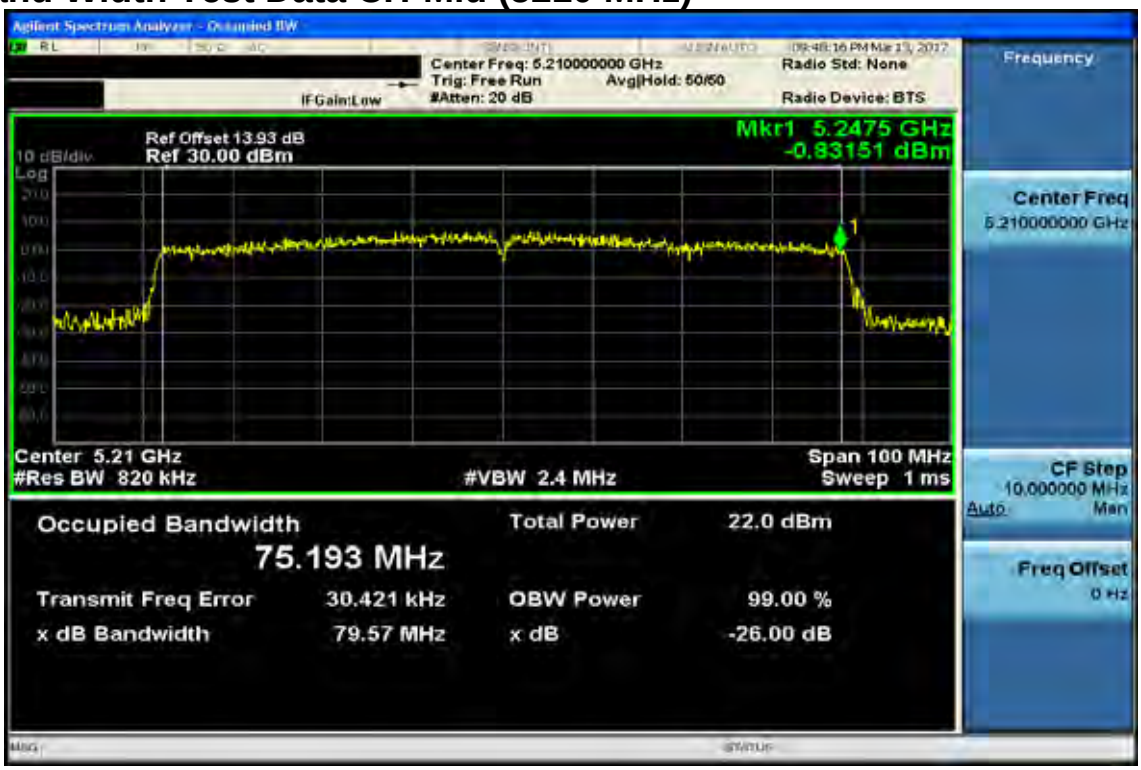
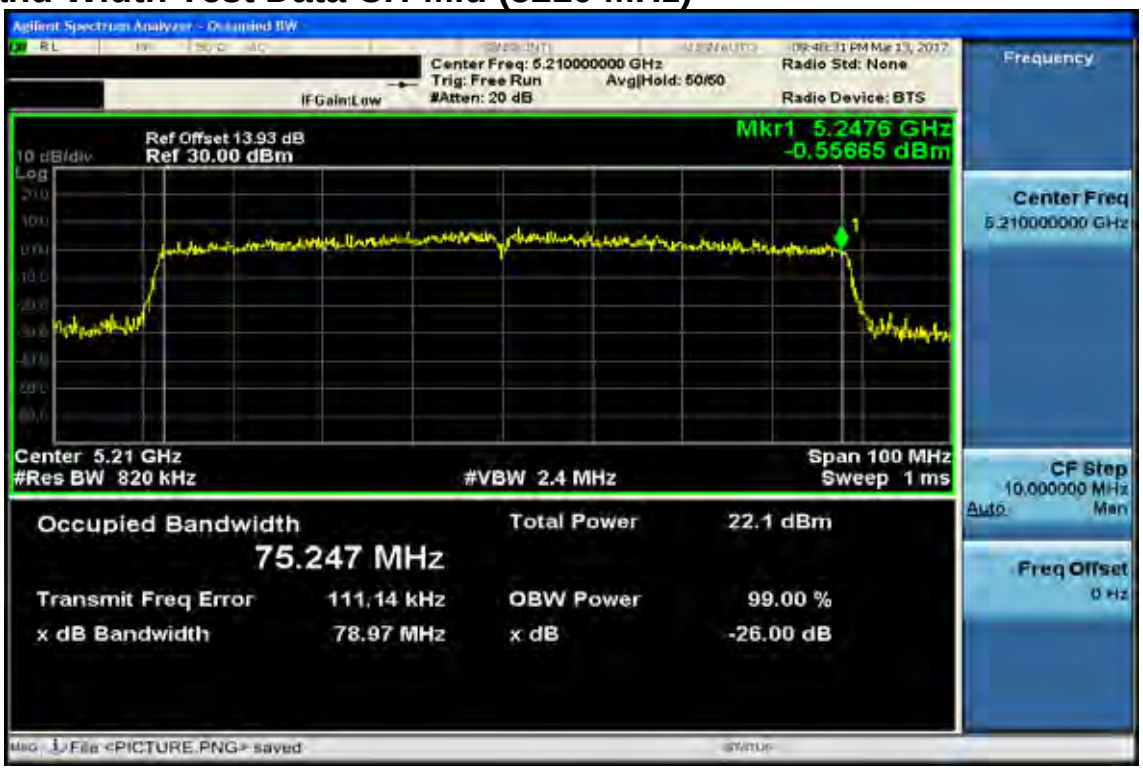
802.11ac VHT80, 5150~5250 MHz (Main)
99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux1)
99% Band Width Test Data CH-Mid (5210 MHz)



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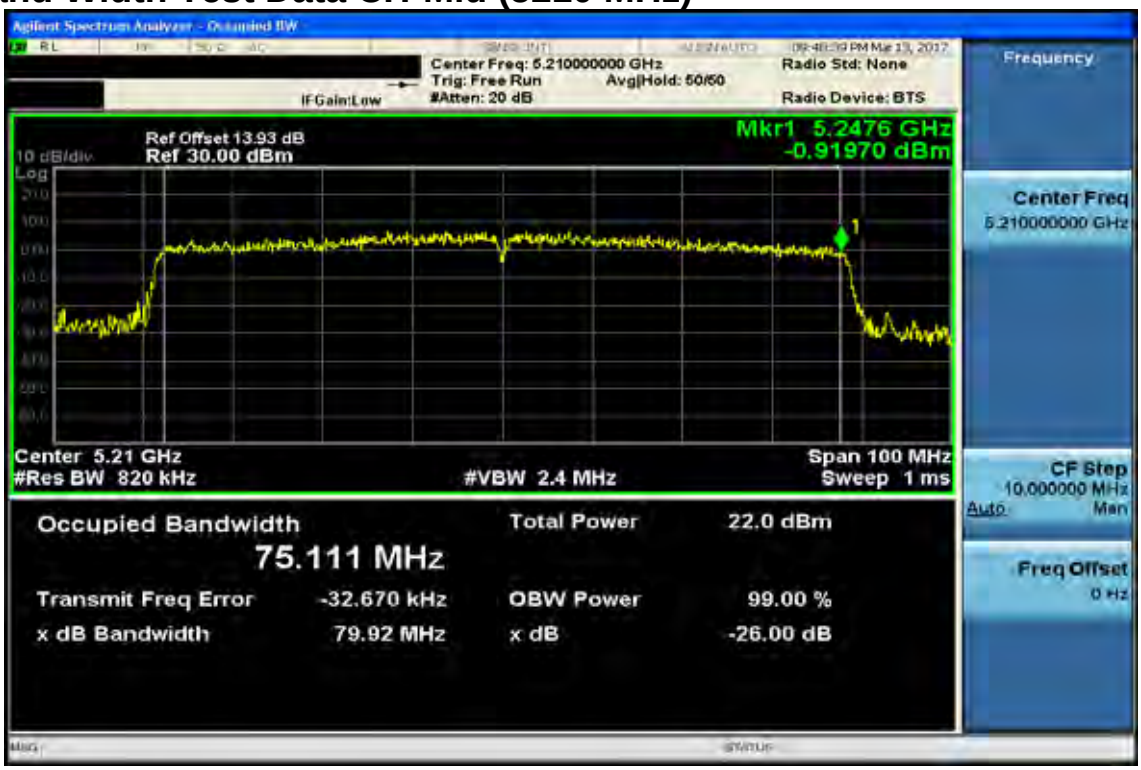
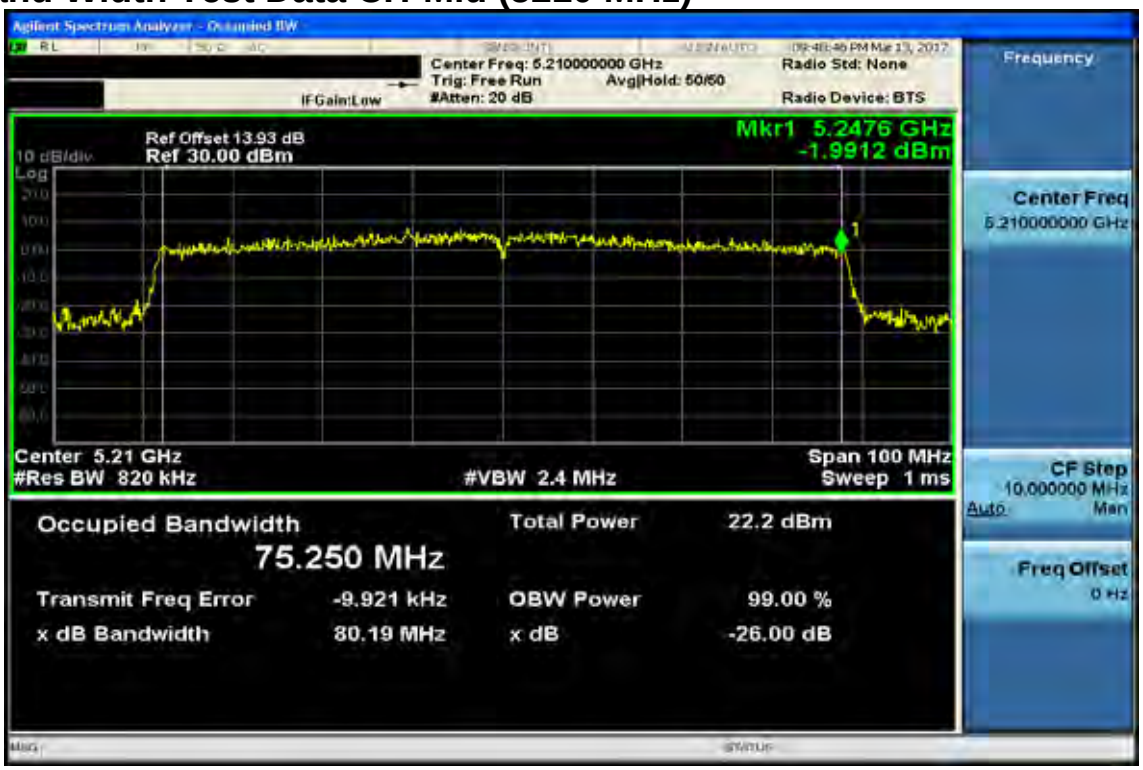
802.11ac VHT80, 5150~5250 MHz (Aux2)
99% Band Width Test Data CH-Mid (5210 MHz)



802.11ac VHT80, 5150~5250 MHz (Aux3)
99% Band Width Test Data CH-Mid (5210 MHz)



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802.11a, 5725~5850 MHz (Main)
99% Band Width Test Data CH-Low (5745 MHz)

802.11a, 5725~5850 MHz (Aux1)
99% Band Width Test Data CH-Low (5745 MHz)

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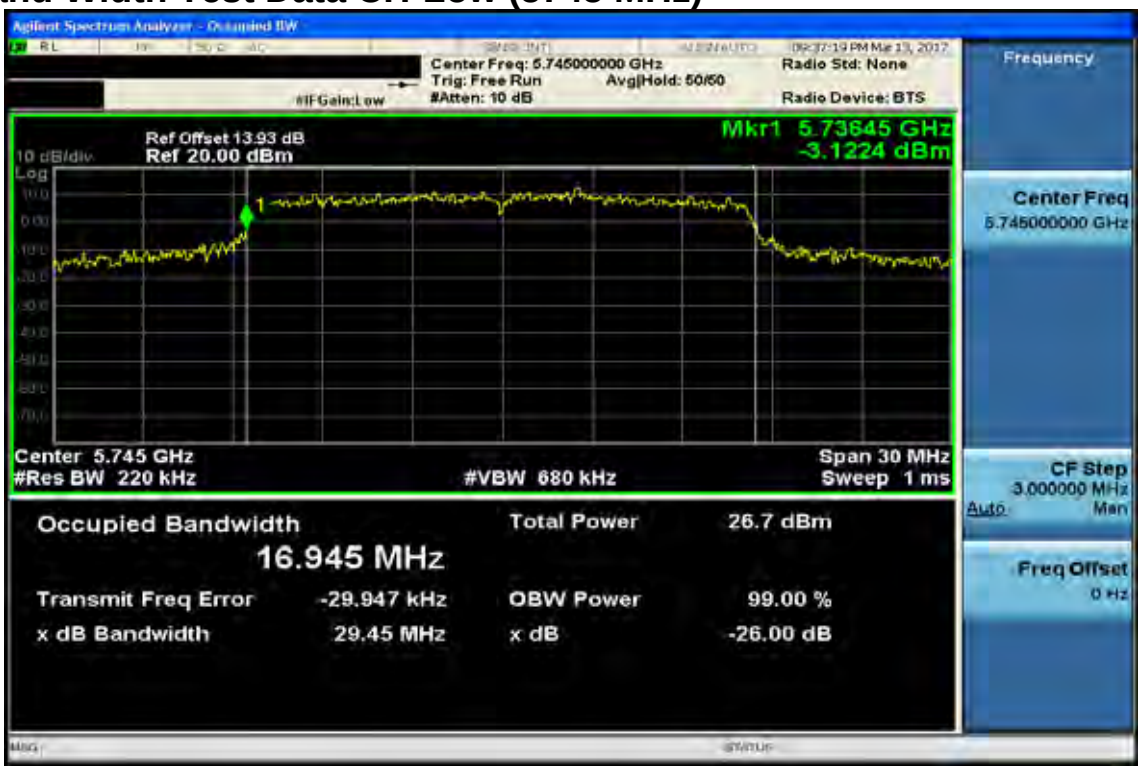
802.11a, 5725~5850 MHz (Aux2)
99% Band Width Test Data CH-Low (5745 MHz)



802.11a, 5725~5850 MHz (Aux3)
99% Band Width Test Data CH-Low (5745 MHz)

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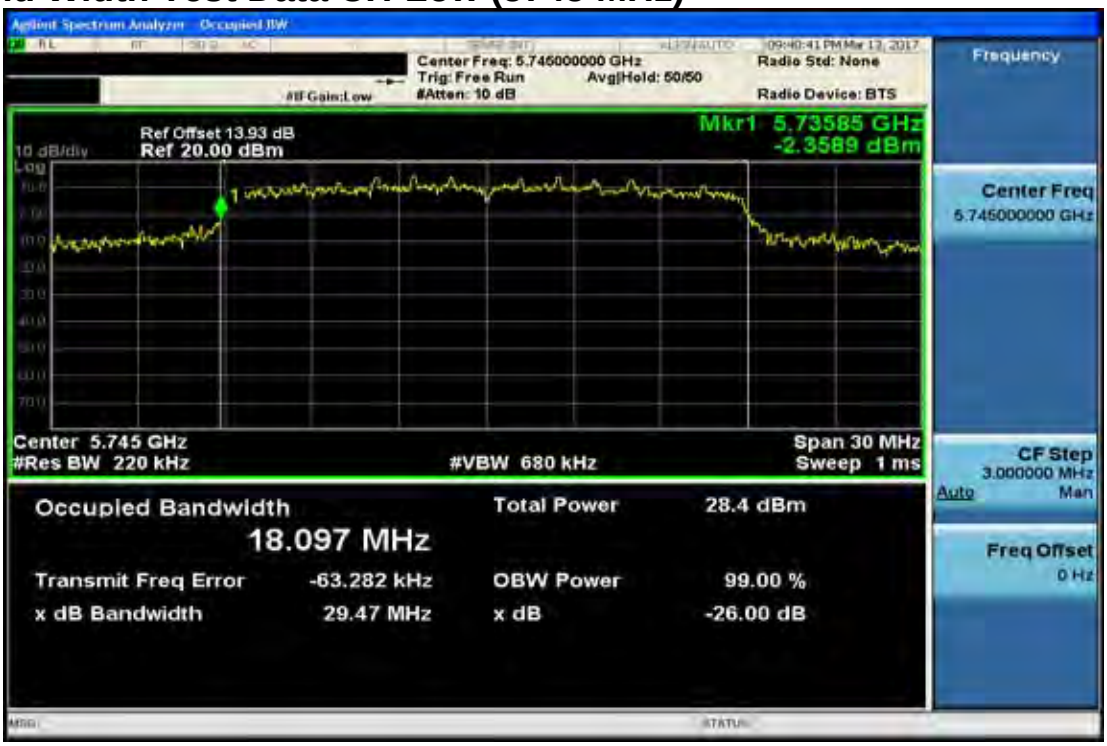
CDD Mode:

802.11n_HT20, 5725~5850 MHz (Main)

99% Band Width Test Data CH-Low (5745 MHz)



802.11n_HT20, 5725~5850 MHz (Aux1)

99% Band Width Test Data CH-Low (5745 MHz)

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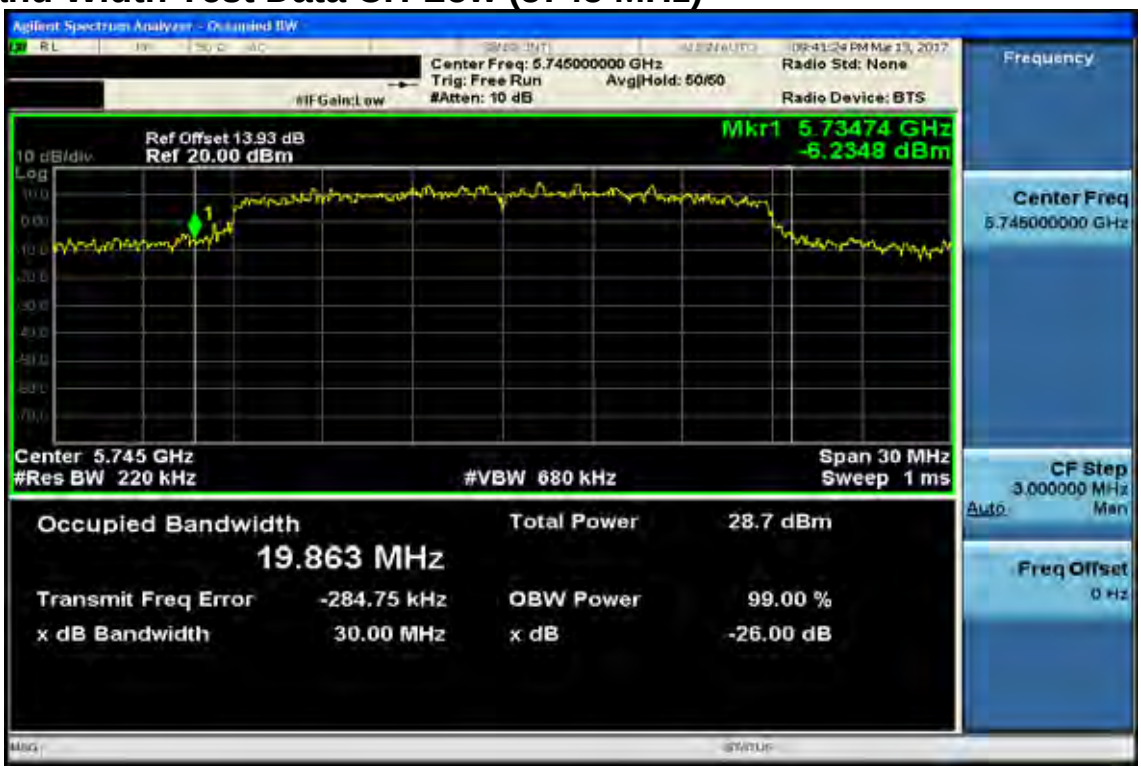
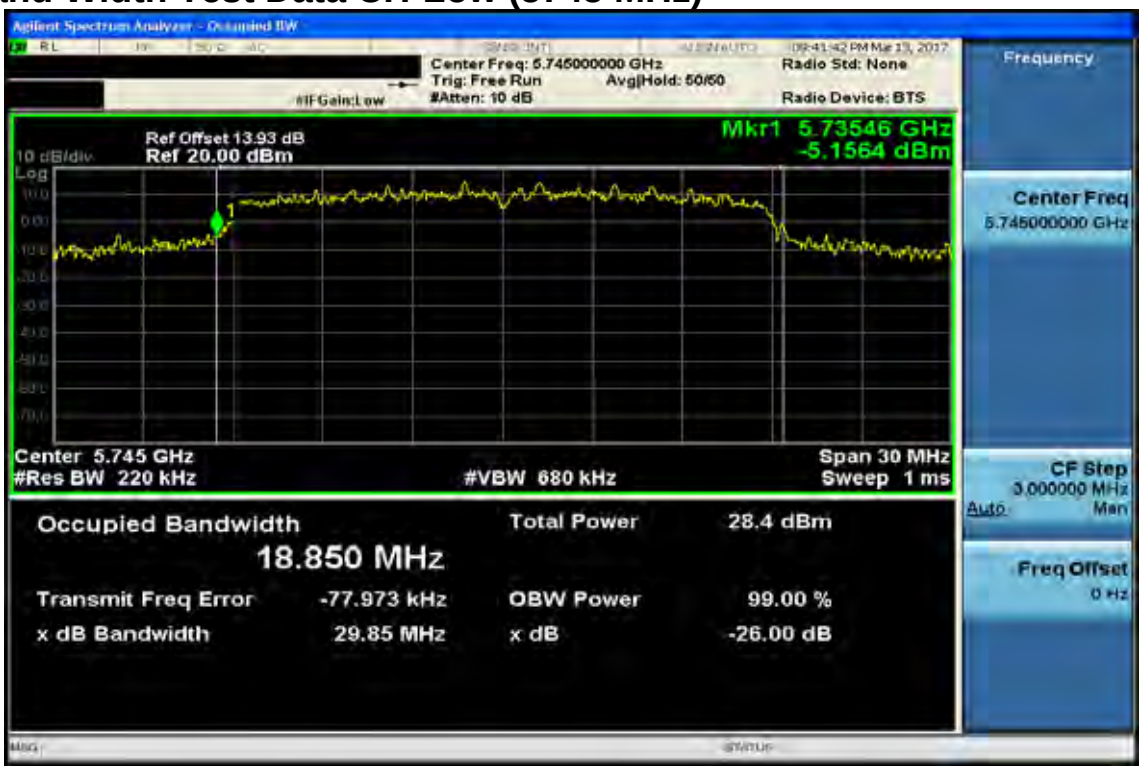
802.11n_HT20, 5725~5850 MHz (Aux2)
99% Band Width Test Data CH-Low (5745 MHz)



802.11n_HT20, 5725~5850 MHz (Aux3)
99% Band Width Test Data CH-Low (5745 MHz)



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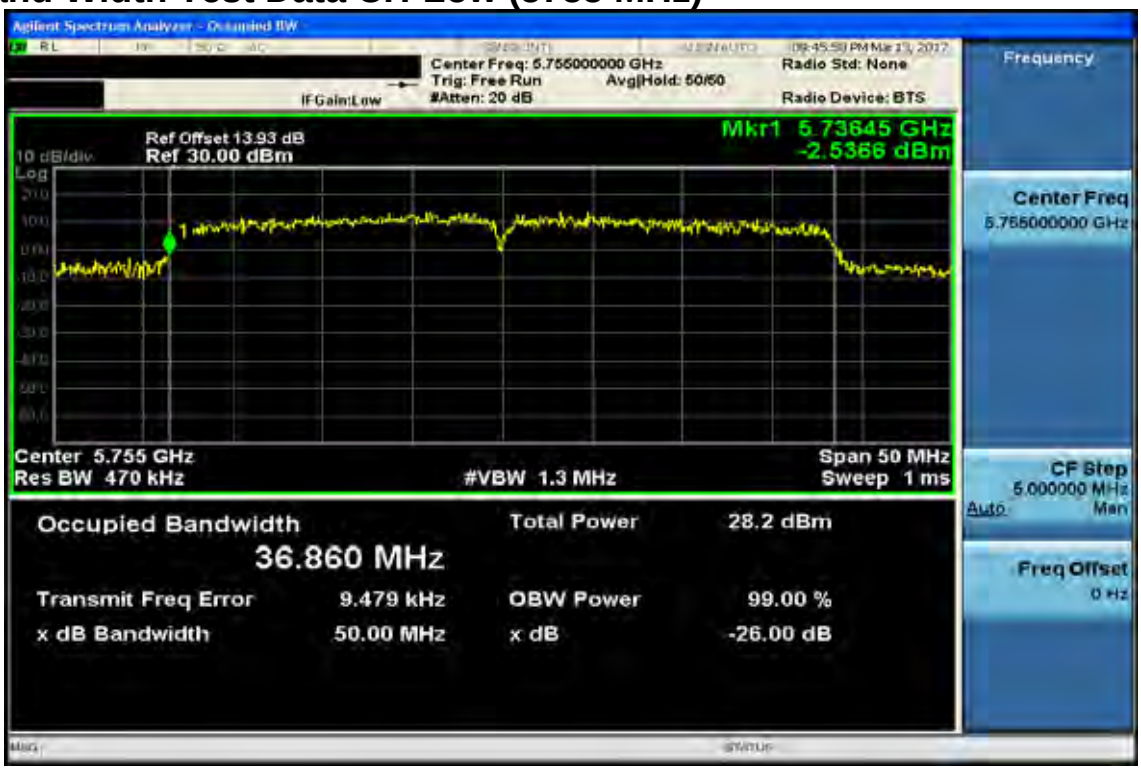
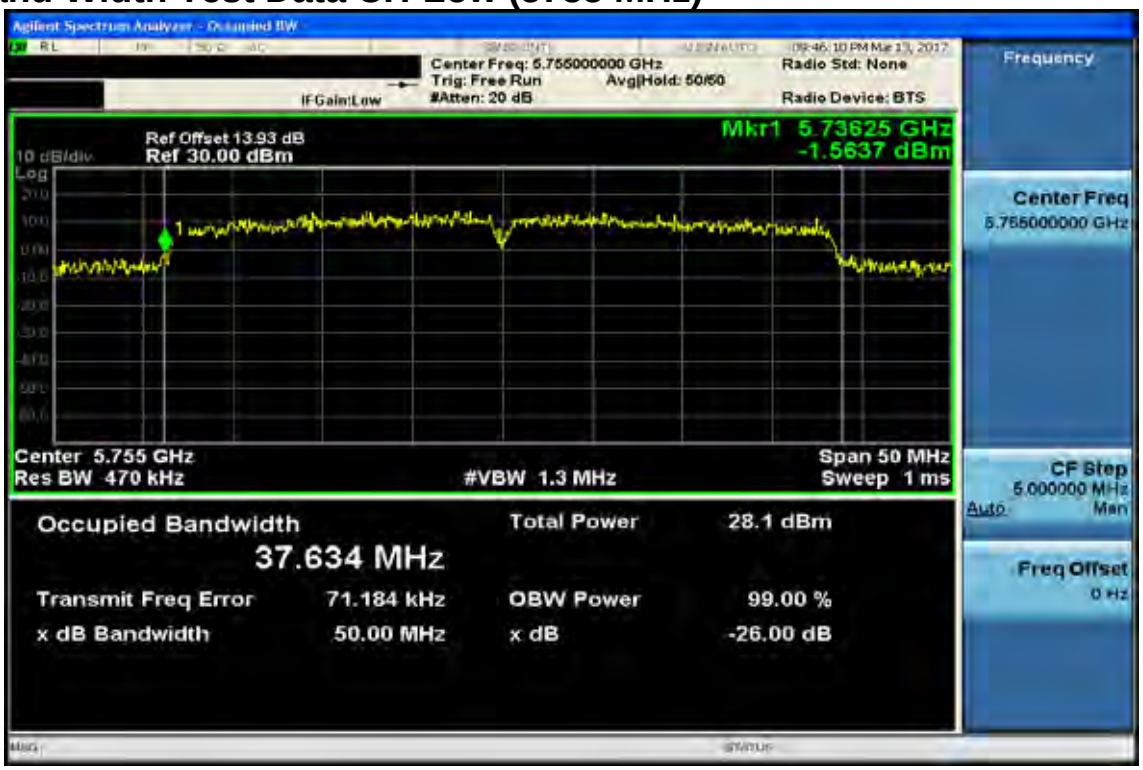
802.11n_HT40, 5725~5850 MHz (Main)
99% Band Width Test Data CH-Low (5755 MHz)



802.11n_HT40, 5725~5850 MHz (Aux1)
99% Band Width Test Data CH-Low (5755 MHz)



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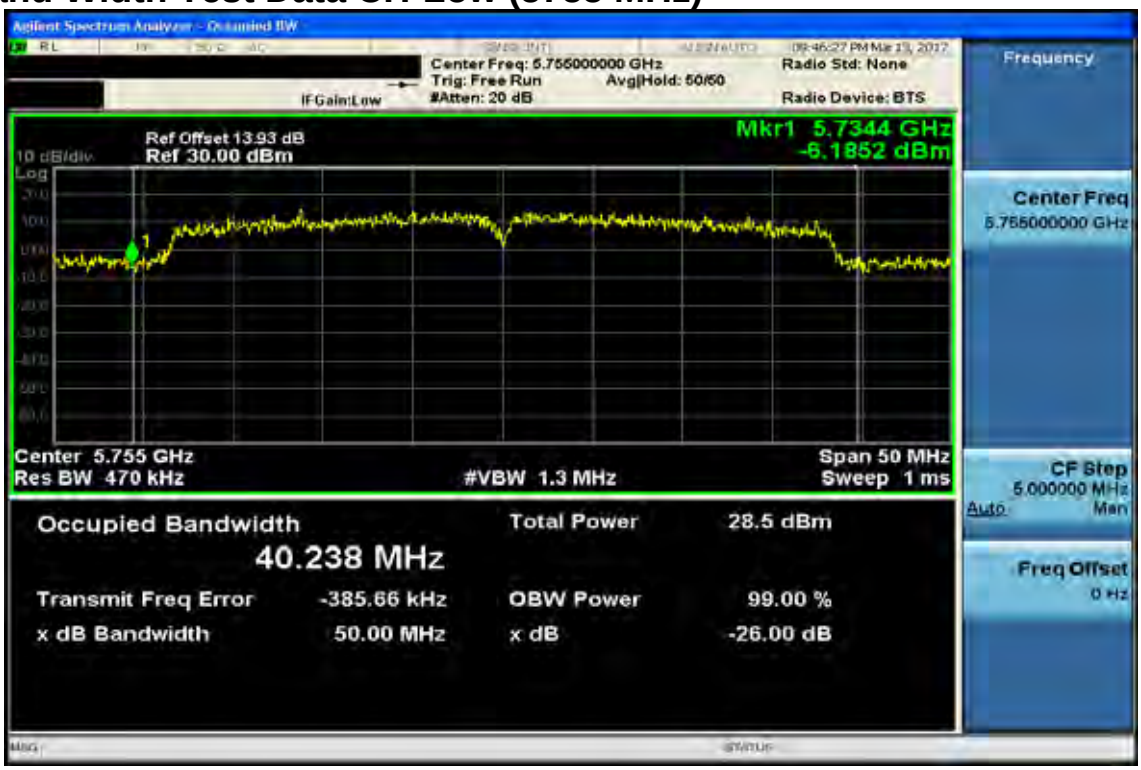
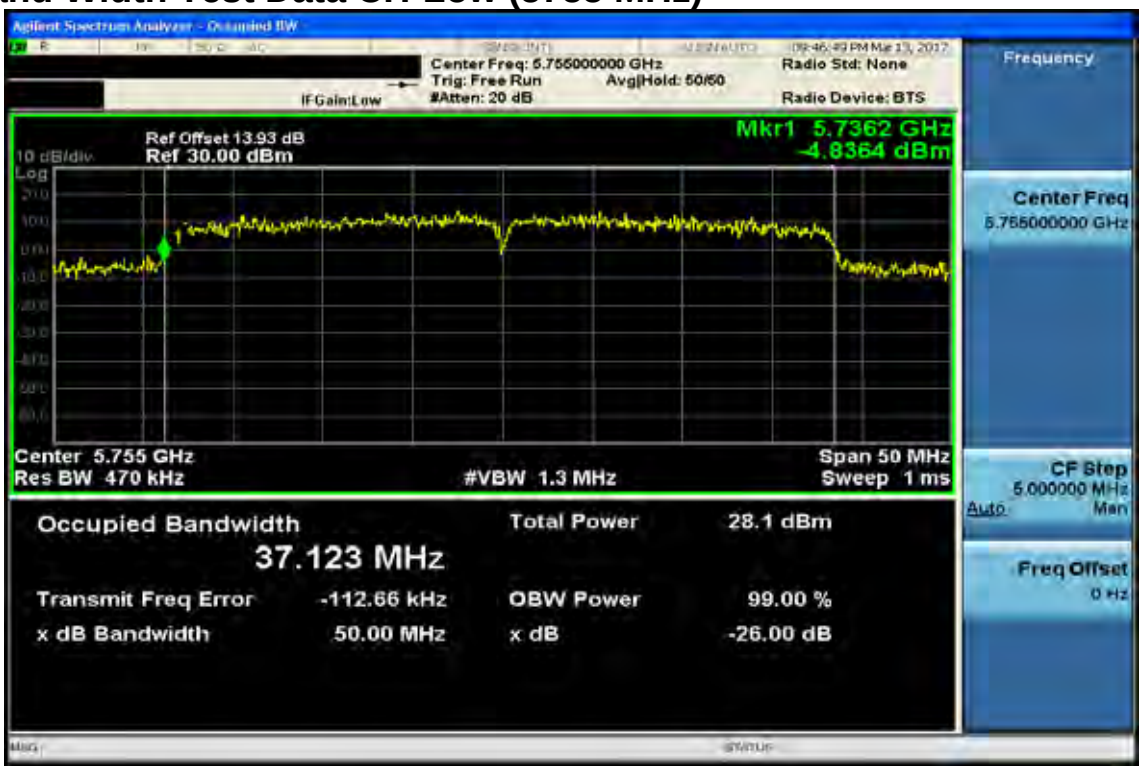
802.11n_HT40, 5725~5850 MHz (Aux2)
99% Band Width Test Data CH-Low (5755 MHz)



802.11n_HT40, 5725~5850 MHz (Aux3)
99% Band Width Test Data CH-Low (5755 MHz)



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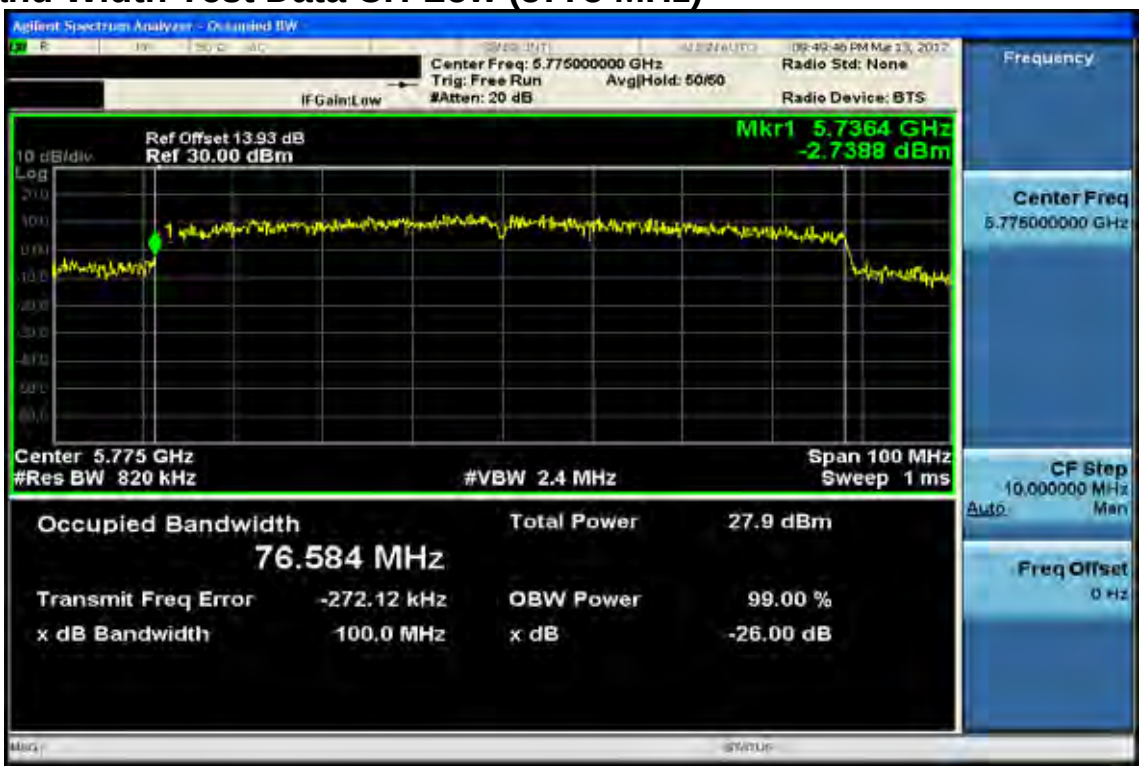
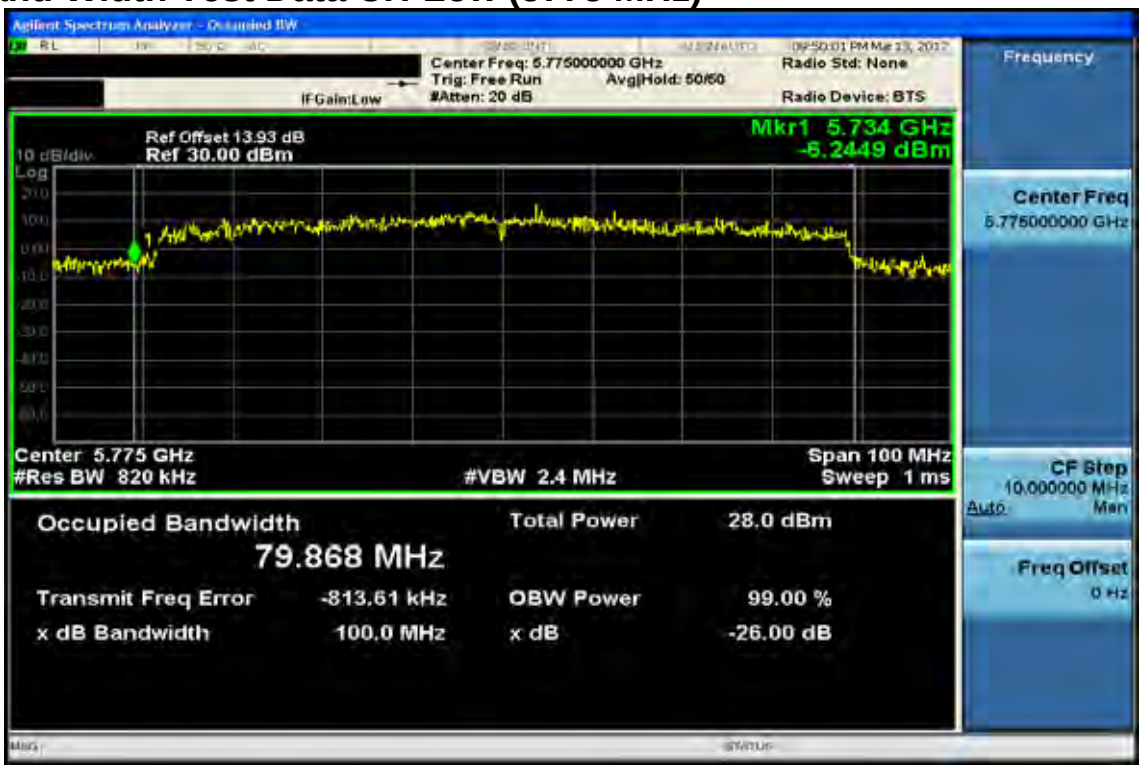
802.11ac VHT80, 5725~5850 MHz (Main)
99% Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux1)
99% Band Width Test Data CH-Low (5775 MHz)



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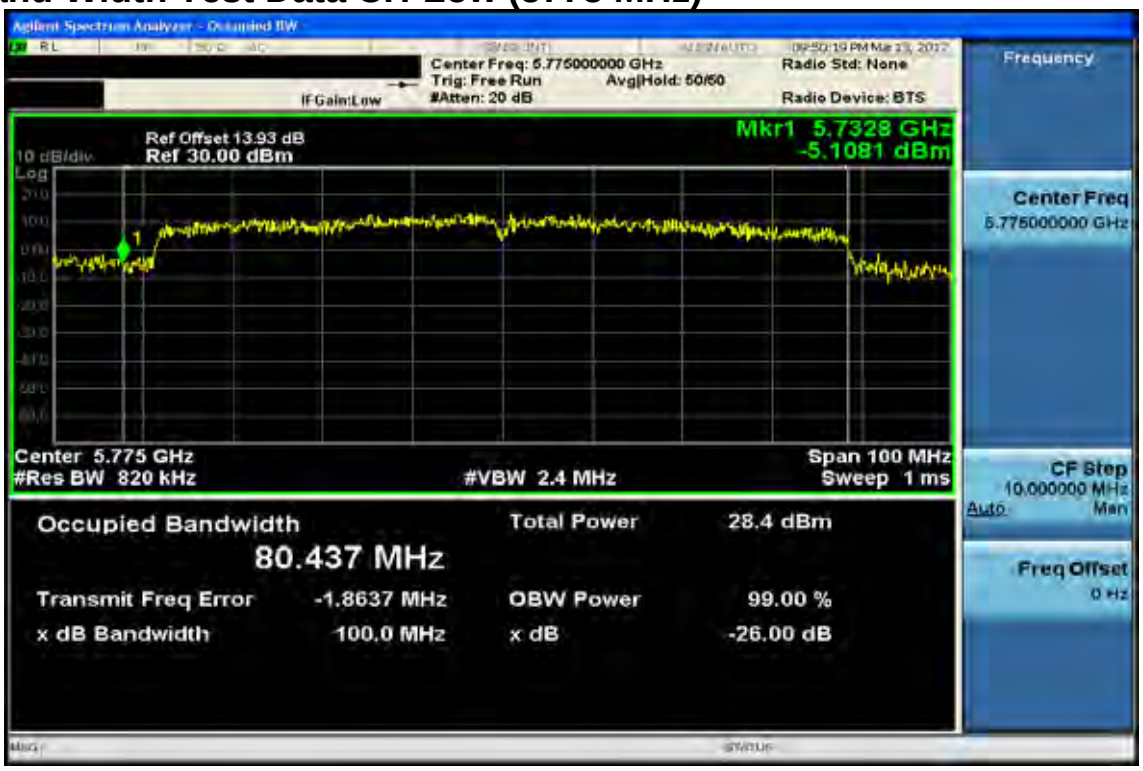
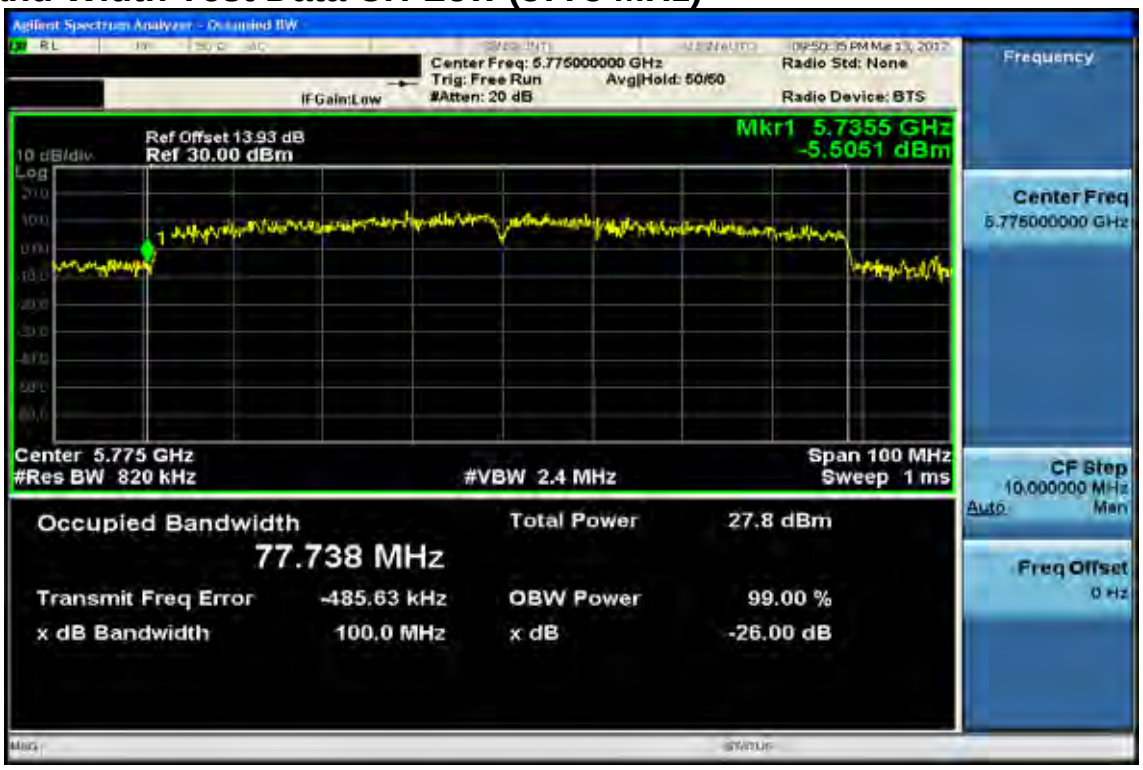
802.11ac VHT80, 5725~5850 MHz (Aux2)
99% Band Width Test Data CH-Low (5775 MHz)



802.11ac VHT80, 5725~5850 MHz (Aux3)
99% 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 direc-tion-al gain of the antenna exceeds 6 dBi.

Note:

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

Directional gain = 1.17

	Effective Legacy Gain (dBi)	Limit
UNII-1	4.58+1.17=5.75dBi	30dBm
U-NII-3	4.58+1.17=5.75dBi i	30dBm

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

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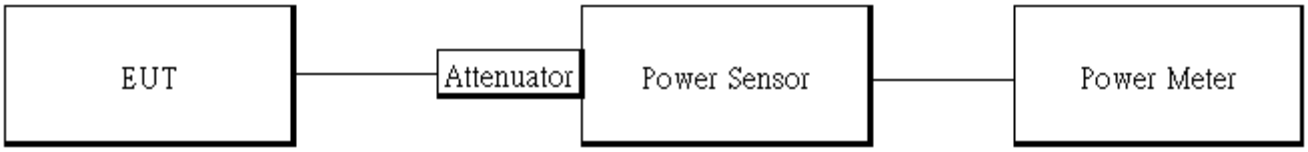
9.2 Measurement Procedure

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

9.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
Power Meter	Anritsu	ML2495A	1005007	12/15/2016	12/14/2017
Power Sensor	Anritsu	MA2411B	917032	12/15/2016	12/14/2017
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Coaxial Cable	HUBER+SUHNER	SUCOFLEX 102	23670/2	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018
Splitter	Agilent	11636B	N/A	01/05/2017	01/04/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power (FCC)

802.11a_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
36	5180	MCS24	12.41	12.06	12.59	12.9	18.52	71.141	30	PASS
44	5220	MCS24	22.87	21.34	21.46	21.14	**27.78**	**599.762**	30	PASS
48	5240	MCS24	22.91	21.35	21.41	21.11	27.78	599.371	30	PASS
149	5745	MCS24	22.78	22.76	23.03	22.27	**28.74**	**748.034**	30	PASS
157	5785	MCS24	22.02	22.38	22.53	21.81	28.21	662.968	30	PASS
165	5825	MCS24	21.95	22.21	22.45	22.21	28.23	665.150	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
36	5180	MCS24	13.14	12.86	13.29	13.63	19.26	84.324	30	PASS
44	5220	MCS24	22.87	23.08	22.98	22.88	**28.97**	**789.576**	30	PASS
48	5240	MCS24	22.81	22.98	22.94	22.86	28.92	779.580	30	PASS
149	5745	MCS24	22.98	22.62	23.03	22.76	**28.87**	**771.128**	30	PASS
157	5785	MCS24	22.71	23.05	23.02	22.57	28.86	769.639	30	PASS
165	5825	MCS24	21.78	22.83	22.55	22.81	28.53	713.400	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
38	5190	MCS24	16.31	16.59	16.06	15.85	22.23	167.184	30	PASS
46	5230	MCS24	22.83	23.05	22.93	22.91	**28.95**	**785.473**	30	PASS
151	5755	MCS24	21.96	22.08	22.01	21.88	28.00	631.497	30	PASS
159	5795	MCS24	22.77	23.23	23.22	23	**29.08**	**809.032**	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	AVERAGE POWER (dBm)				TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
			CH 0	CH 1	CH 2	CH3				
42	5210	MCS0	14.02	14.18	14.29	14.02	20.15	103.505	30	PASS
155	5775	MCS0	16.93	17.28	17.45	16.82	23.15	206.448	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	
		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.

Note:

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

Directional gain = $10 \log[((10^{(G1/20)})+(10^{(G2/20)})\ldots)^2/N_{ANT}]$

	Effective Legacy Gain (dBi)	Limit
UNII-1	4.58+1.17=5.75dBi	17dBm
U-NII-3	4.58+1.17=5.75dBi	30dBm

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

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10.2 Measurement Procedure

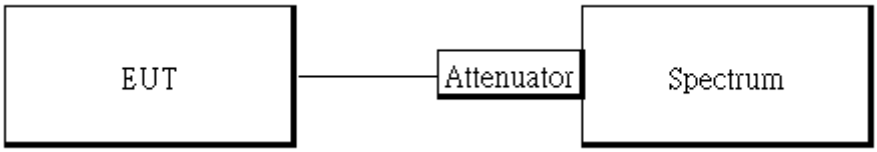
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1**
   Set RBW=1MHz, VBW=3MHz, where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

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

10.3 Measurement Equipment Used

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Block	Mini-Circuits	BLK-18-S+	1	01/05/2017	01/04/2018
Attenuator	Mini-Circuit	BW-S10W2+	2	01/05/2017	01/04/2018

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	2.16	17	-14.84
5220	3.73	17	-13.27
5240	0.11	17	-16.89
5745	21.54	30	-8.46
5785	19.31	30	-10.69
5825	20.83	30	-9.17

CDD Mode:

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5180	-5.22	17	-22.22
5220	-4.79	17	-21.79
5240	-7.91	17	-24.91
5745	22.67	30	-7.33
5785	22.58	30	-7.42
5825	22.86	30	-7.14

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5190	-8.48	17	-25.48
5230	-12.94	17	-29.94
5755	21.54	30	-8.46
5795	22.79	30	-7.21

POWER DENSITY 802.11ac VHT80 MODE			
Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Margin (dB)
5210	-16.53	17	-33.53
5775	21.37	30	-8.63

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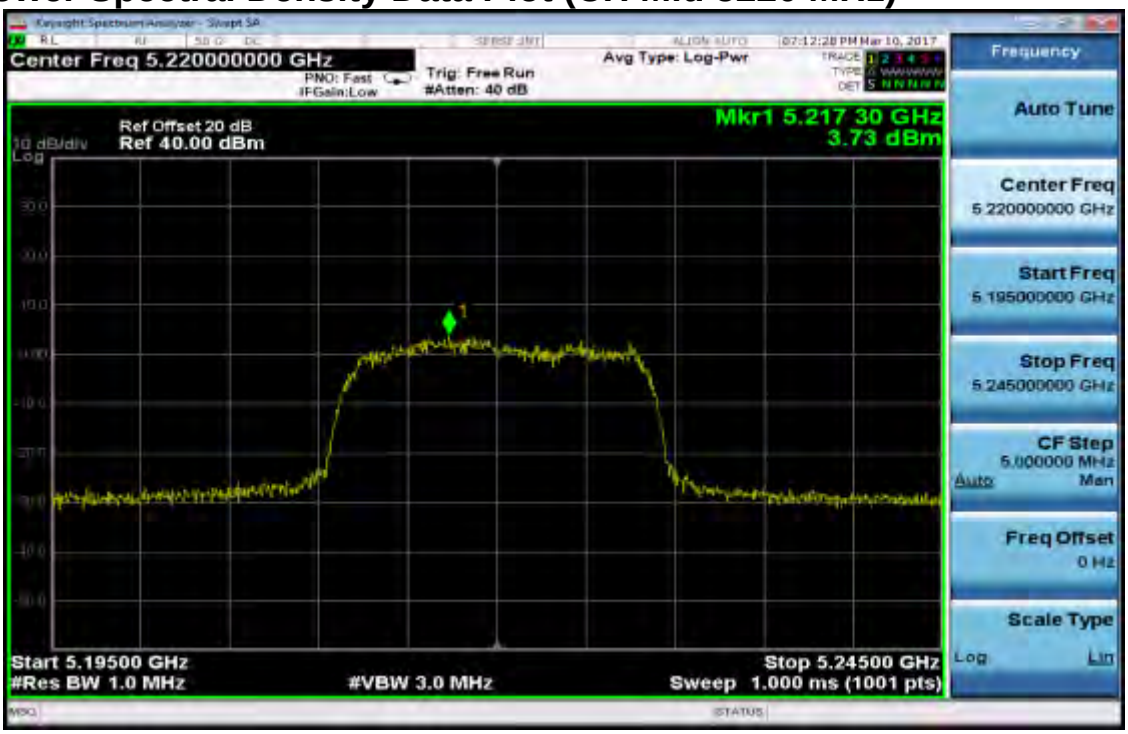
802.11a 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)

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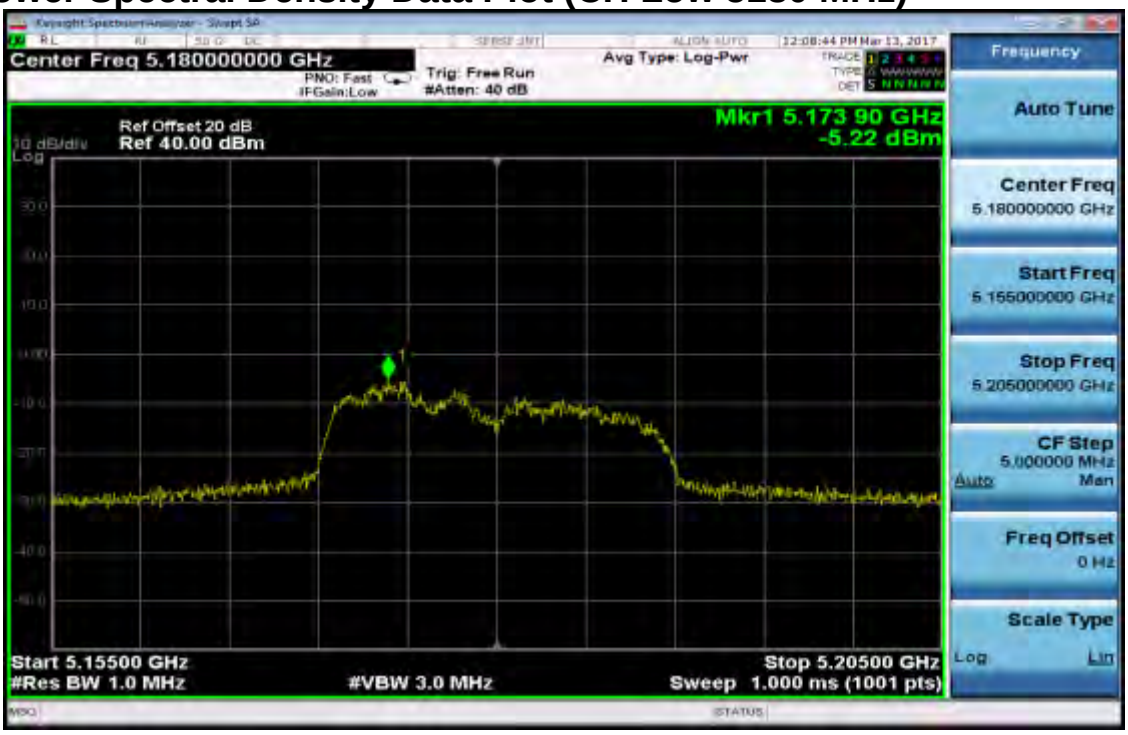
CDD Mode:
802.11n HT20, 5150~5250 MHz
Peak Power Spectral Density Data Plot (CH Low 5180 MHz)



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

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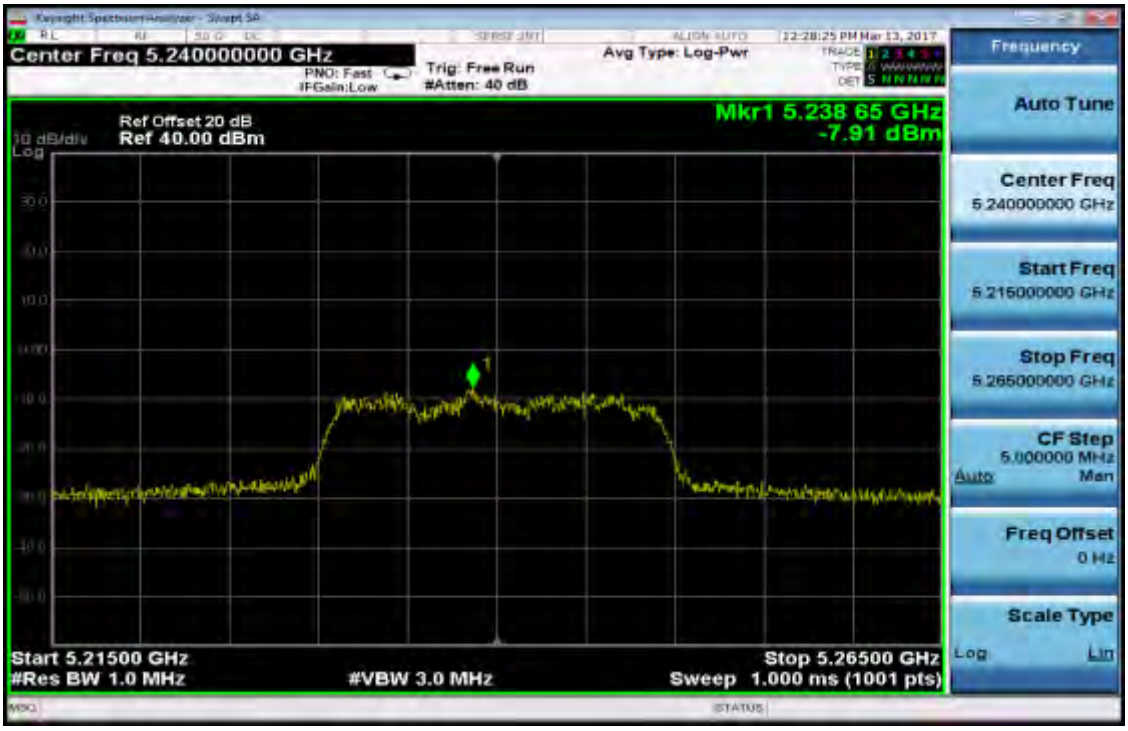
Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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802.11n HT20, 5725~5850 MHz

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

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

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

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

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

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

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

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

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

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11. UNDESIRABLE RADIATED EMISSION 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 within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of −17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of −27 dBm/MHz.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	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)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)	PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m)
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*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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Member of SGS Group

11.2 Measurement Equipment Used

SGS SAC-III					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EMI Test Receiver	R&S	ESCI7	100760	05/10/2016	05/09/2017
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/21/2016	04/20/2017
Loop Antenna	ETS.LINDGREN	6502	148045	09/20/2016	09/19/2017
Bilog Antenna	SCHWAZBECK	VULB9168	378	12/19/2016	12/18/2017
Horn Antenna	Schwarzbeck	BBHA9120D	1441	08/01/2016	07/31/2017
Pre-Amplifier	Agilent	8447D	2944A07676	01/05/2017	01/04/2018
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/05/2017	01/04/2018
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	ChamPro	AM-BS-4500-B	060776-ABS	N.C.R	N.C.R
Controller	ChamPro	EM1000	60776	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_RX	9	01/05/2017	01/04/2018
3m Site NSA	SGS	966 chamber	N/A	07/01/2016	06/30/2017
Low Loss Cable	Huber Suhner	966 TX	1	01/05/2017	01/04/2018
Horn Antenna	Schwarzbeck	BBHA9170	184	12/12/2016	12/11/2017
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/05/2017	01/04/2018

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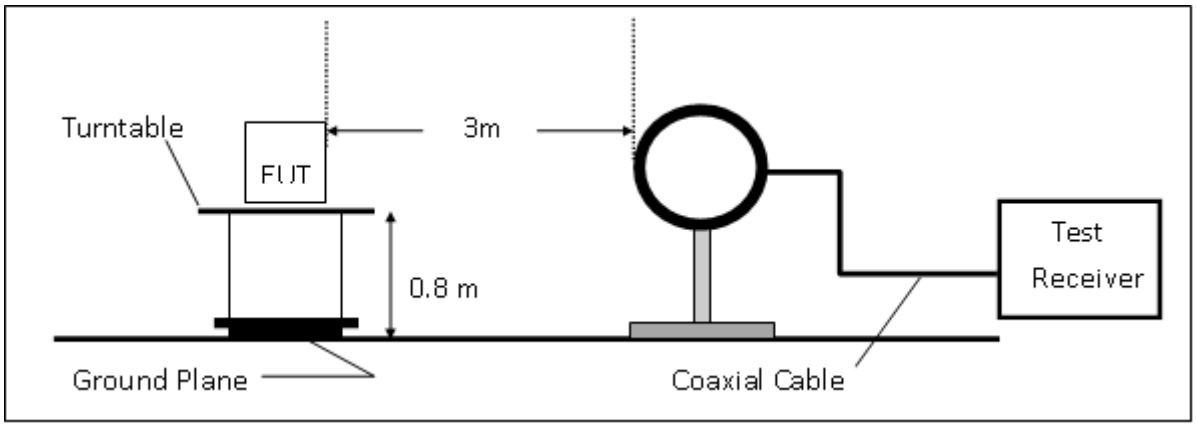
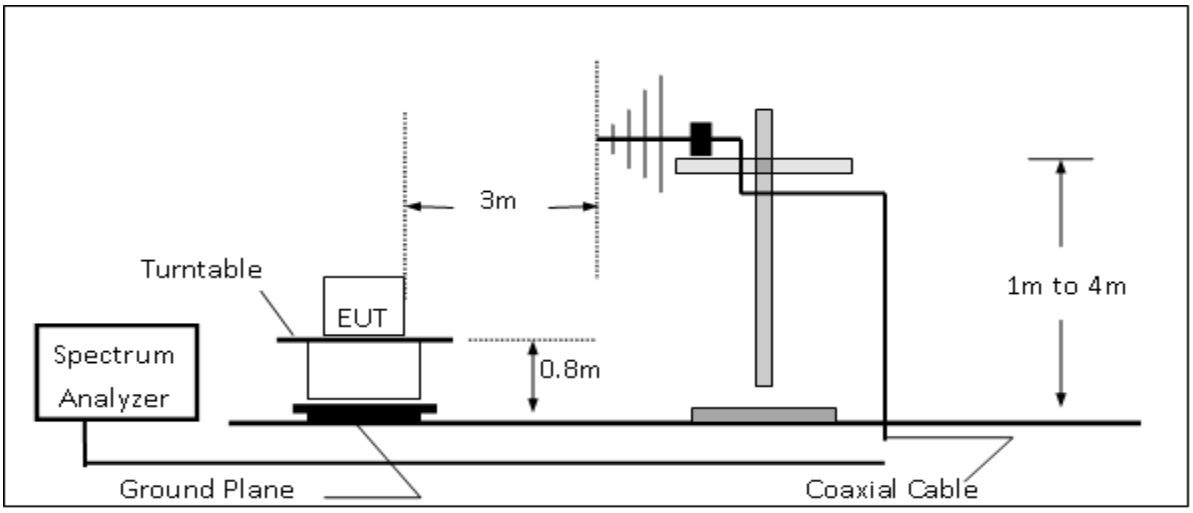
11.3 Test SET-UP

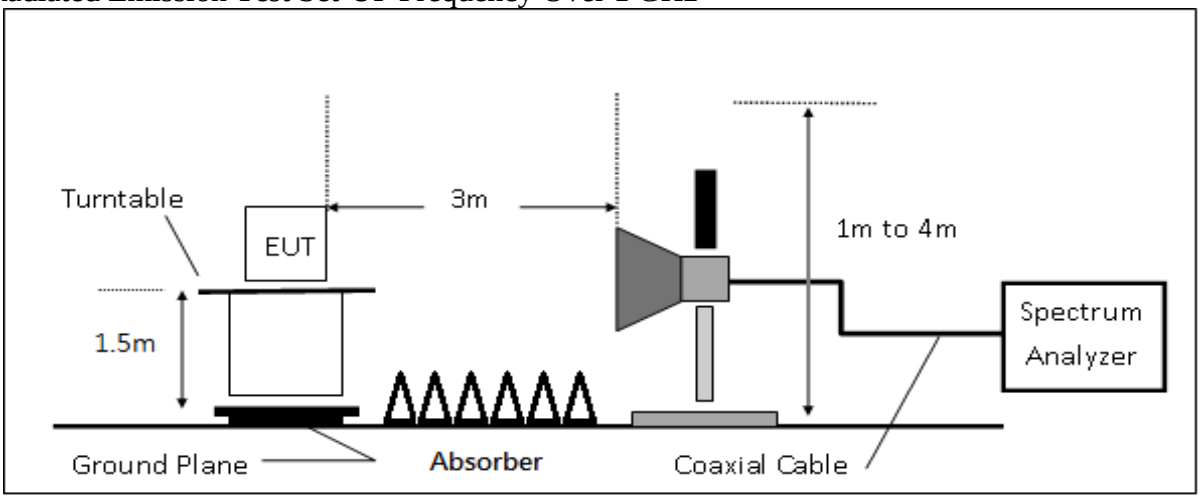
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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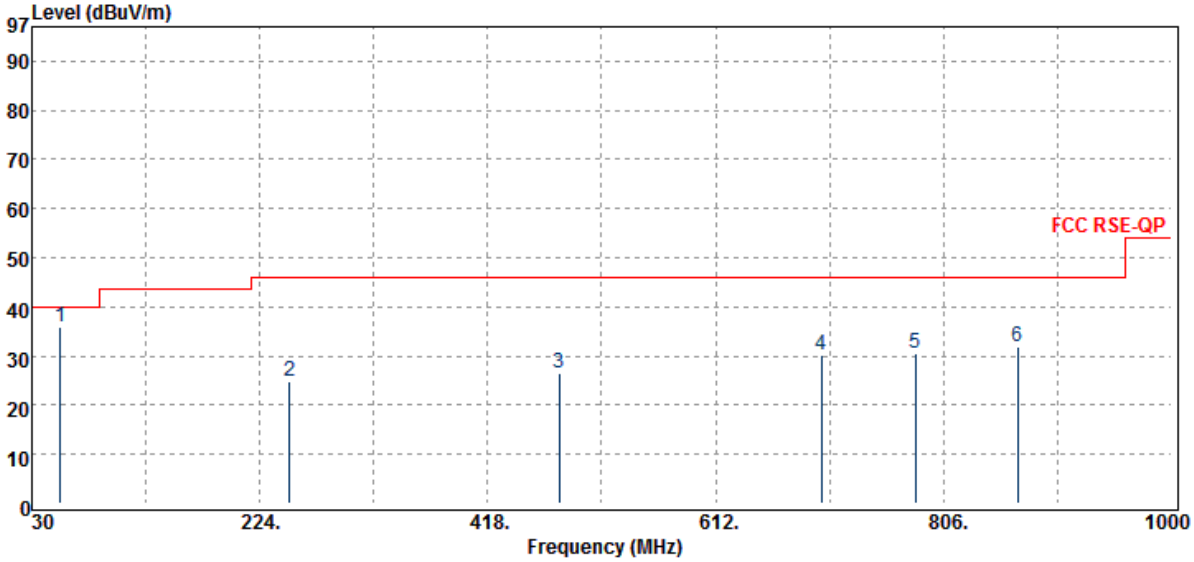
Radiated Spurious Emission Measurement Result

Below 1GHz Worst-Case Data:

802.11a 5150~5250 MHz

Operation Band	:802.11aB1	Test Date	:2017-03-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	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
54.25	S	Peak	43.63	-7.82	35.81	40.00	-4.19
249.22	S	Peak	32.62	-7.95	24.67	46.00	-21.33
479.11	S	Peak	28.80	-2.39	26.41	46.00	-19.59
702.21	S	Peak	28.74	1.37	30.11	46.00	-15.89
781.75	S	Peak	27.71	2.75	30.46	46.00	-15.54
869.05	S	Peak	27.07	4.80	31.87	46.00	-14.13

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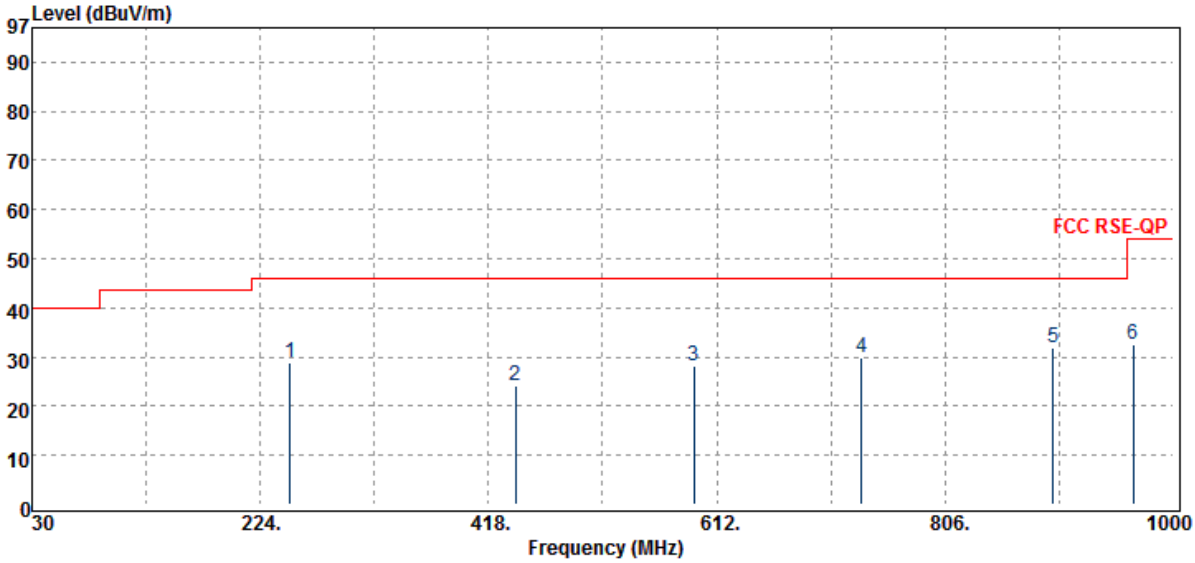
Operation Band	:802.11aB1	Test Date	:2017-03-20
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
249.22	S	Peak	36.97	-7.95	29.02	46.00	-16.98
441.28	S	Peak	27.56	-3.35	24.21	46.00	-21.79
592.60	S	Peak	28.19	0.00	28.19	46.00	-17.81
735.19	S	Peak	27.78	2.01	29.79	46.00	-16.21
898.15	S	Peak	27.44	4.61	32.05	46.00	-13.95
966.05	S	Peak	26.60	5.96	32.56	54.00	-21.44

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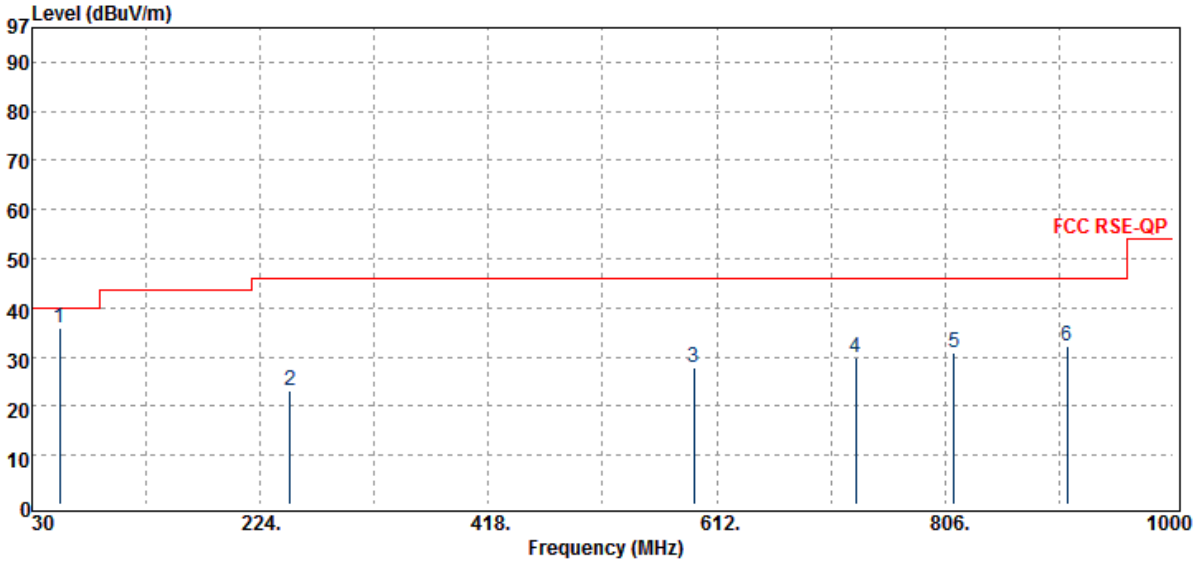
802.11a, 5725~5850 MHz

Operation Band	:802.11aB4	Test Date	:2017-03-20
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	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
53.28	S	Peak	43.62	-7.79	35.83	40.00	-4.17
249.22	S	Peak	31.11	-7.95	23.16	46.00	-22.84
592.60	S	Peak	27.97	0.00	27.97	46.00	-18.03
730.34	S	Peak	28.08	1.67	29.75	46.00	-16.25
813.76	S	Peak	27.67	3.36	31.03	46.00	-14.97
909.79	S	Peak	27.23	4.85	32.08	46.00	-13.92

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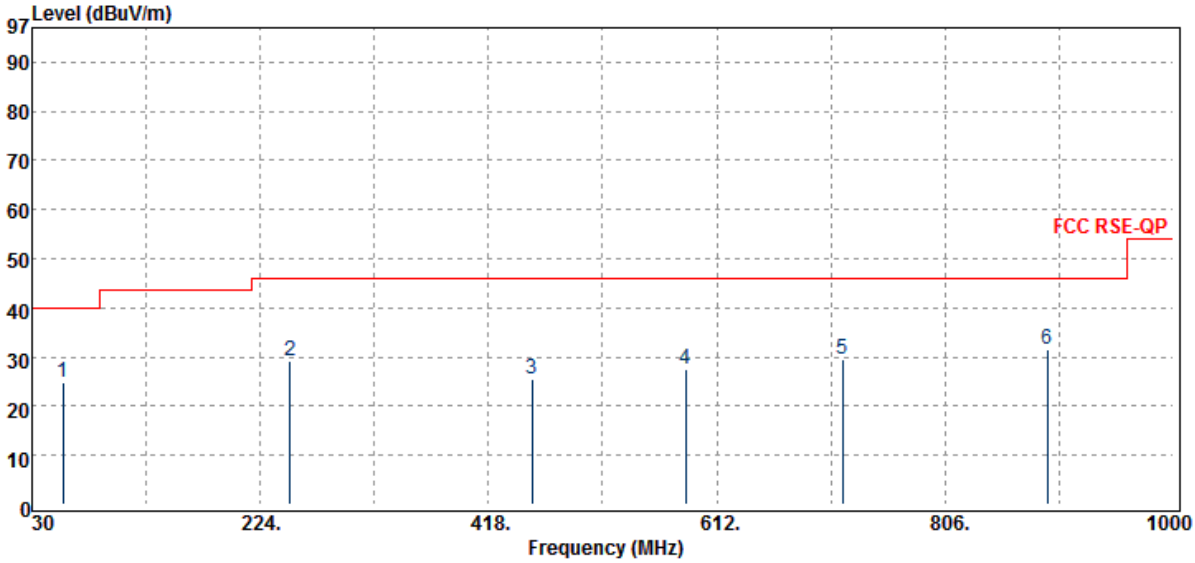
Operation Band	:802.11aB4	Test Date	:2017-03-20
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
56.19	S	Peak	32.78	-7.91	24.87	40.00	-15.13
249.22	S	Peak	37.11	-7.95	29.16	46.00	-16.84
454.86	S	Peak	28.28	-2.65	25.63	46.00	-20.37
585.81	S	Peak	27.50	0.04	27.54	46.00	-18.46
718.70	S	Peak	28.06	1.50	29.56	46.00	-16.44
893.30	S	Peak	27.26	4.43	31.69	46.00	-14.31

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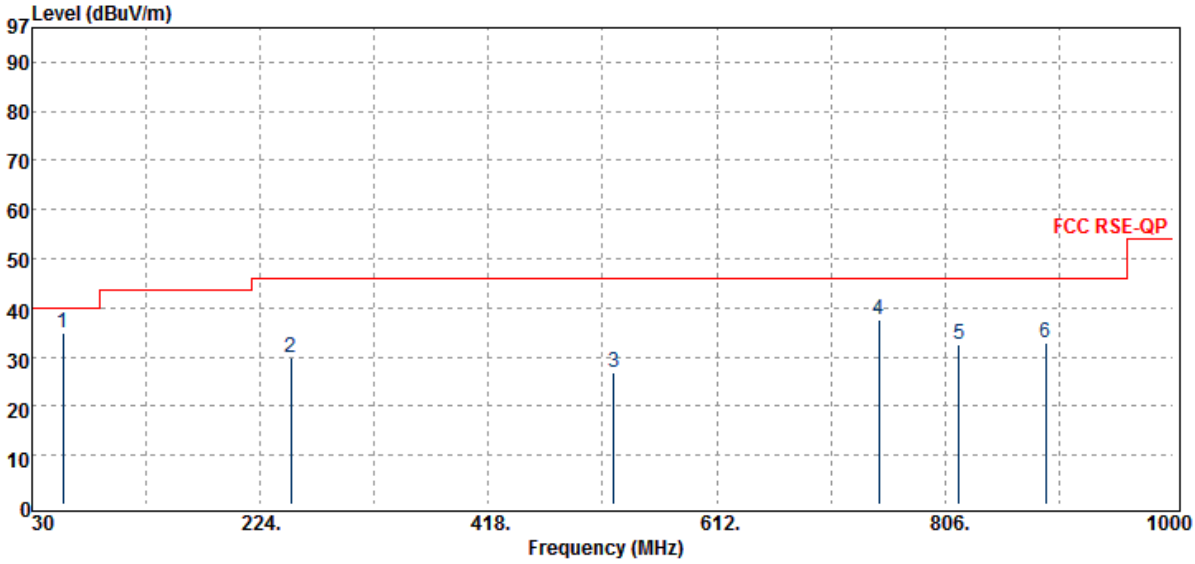
802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2017-03-20
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
56.19	S	Peak	42.98	-7.91	35.07	40.00	-4.93
250.19	S	Peak	37.84	-7.93	29.91	46.00	-16.09
524.70	S	Peak	28.61	-1.68	26.93	46.00	-19.07
749.74	S	Peak	35.02	2.71	37.73	46.00	-8.27
817.64	S	Peak	29.03	3.41	32.44	46.00	-13.56
891.36	S	Peak	28.36	4.40	32.76	46.00	-13.24

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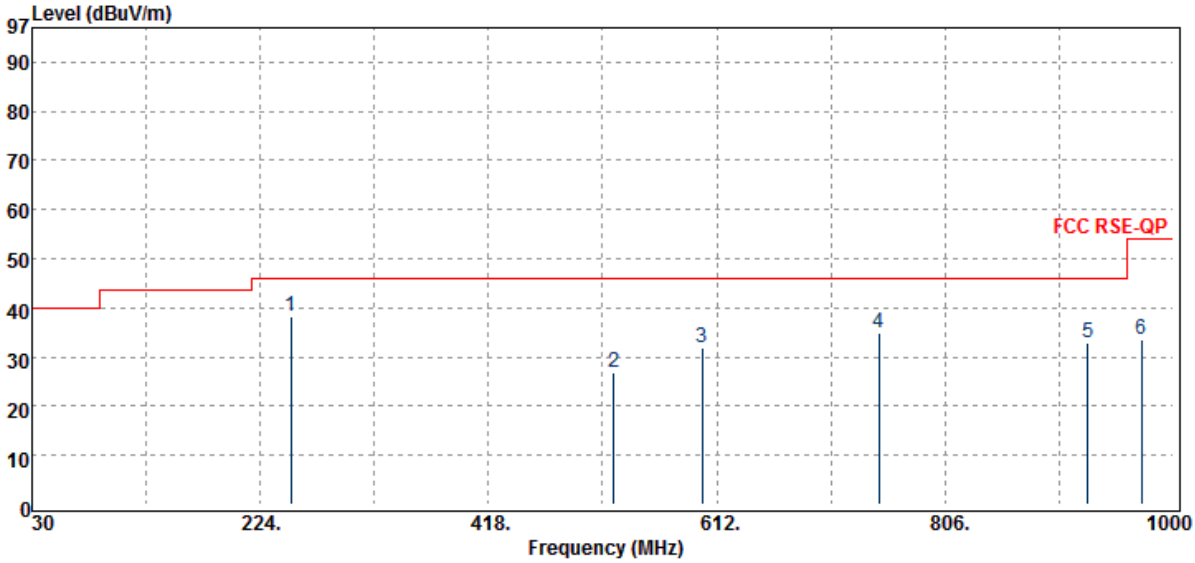
Operation Band	:802.11ac80B1	Test Date	:2017-03-20
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
250.19	S	Peak	46.33	-7.93	38.40	46.00	-7.60
524.70	S	Peak	28.61	-1.68	26.93	46.00	-19.07
599.39	S	Peak	32.27	-0.27	32.00	46.00	-14.00
749.74	S	Peak	32.20	2.71	34.91	46.00	-11.09
927.25	S	Peak	27.78	5.17	32.95	46.00	-13.05
972.84	S	Peak	27.23	6.18	33.41	54.00	-20.59

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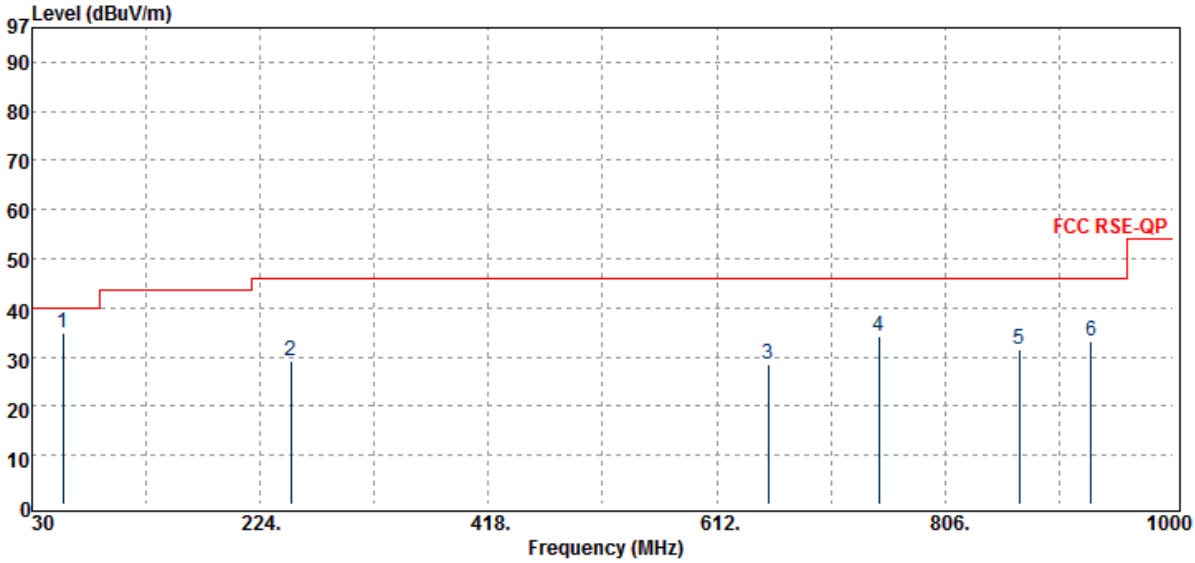
802.11ac VHT80, 5725~5850 MHz

Operation Band	:802.11ac80B4	Test Date	:2017-03-20
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
56.19	S	Peak	42.90	-7.91	34.99	40.00	-5.01
250.19	S	Peak	37.06	-7.93	29.13	46.00	-16.87
655.65	S	Peak	28.16	0.27	28.43	46.00	-17.57
749.74	S	Peak	31.68	2.71	34.39	46.00	-11.61
869.05	S	Peak	26.80	4.80	31.60	46.00	-14.40
930.16	S	Peak	28.05	5.26	33.31	46.00	-12.69

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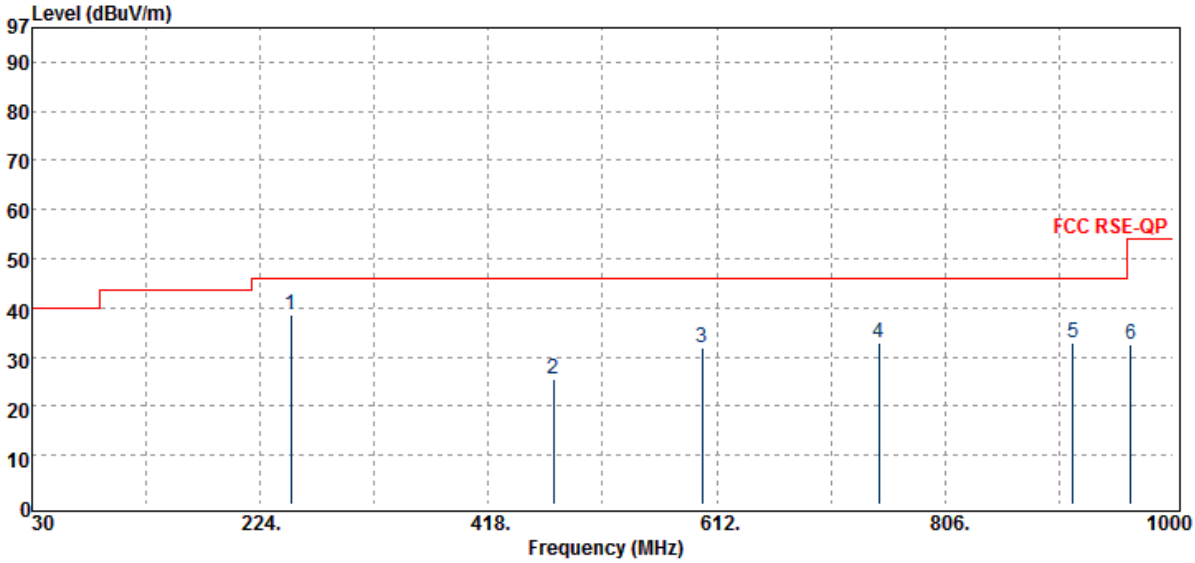
Operation Band	:802.11ac80B4	Test Date	:2017-03-20
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
250.19	S	Peak	46.56	-7.93	38.63	46.00	-7.37
473.29	S	Peak	28.18	-2.51	25.67	46.00	-20.33
599.39	S	Peak	32.10	-0.27	31.83	46.00	-14.17
749.74	S	Peak	30.31	2.71	33.02	46.00	-12.98
914.64	S	Peak	28.05	4.99	33.04	46.00	-12.96
964.11	S	Peak	26.47	6.02	32.49	54.00	-21.51

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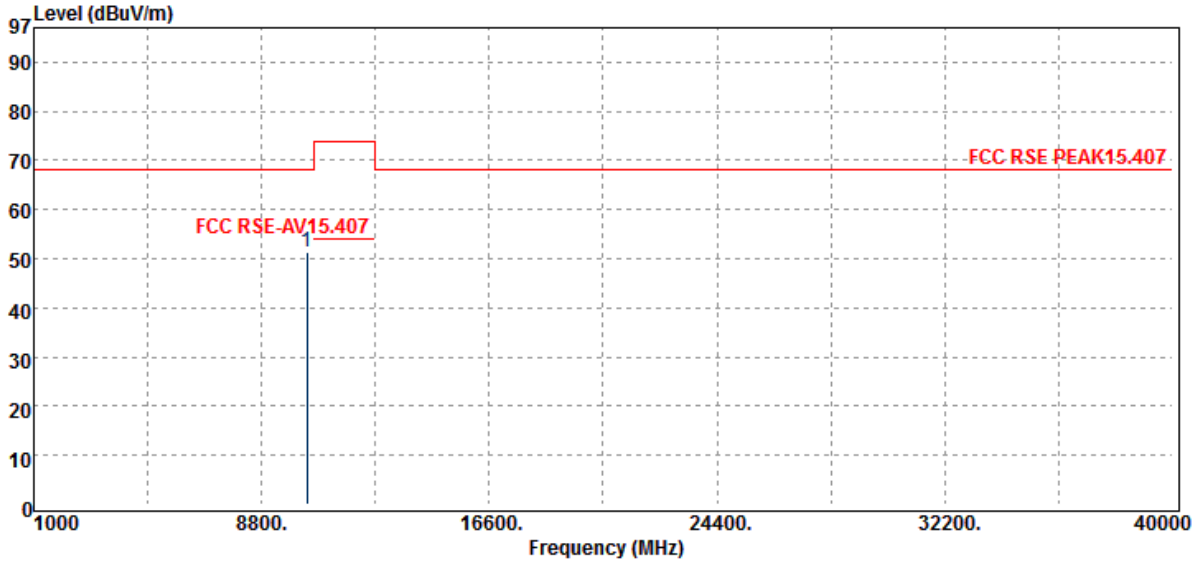
Above 1GHz Worst-Case Data:

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

Operation Band	:802.11aB1	Test Date	:2017-02-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
10360.00	H	Peak	33.19	18.29	51.48	68.30	-16.82

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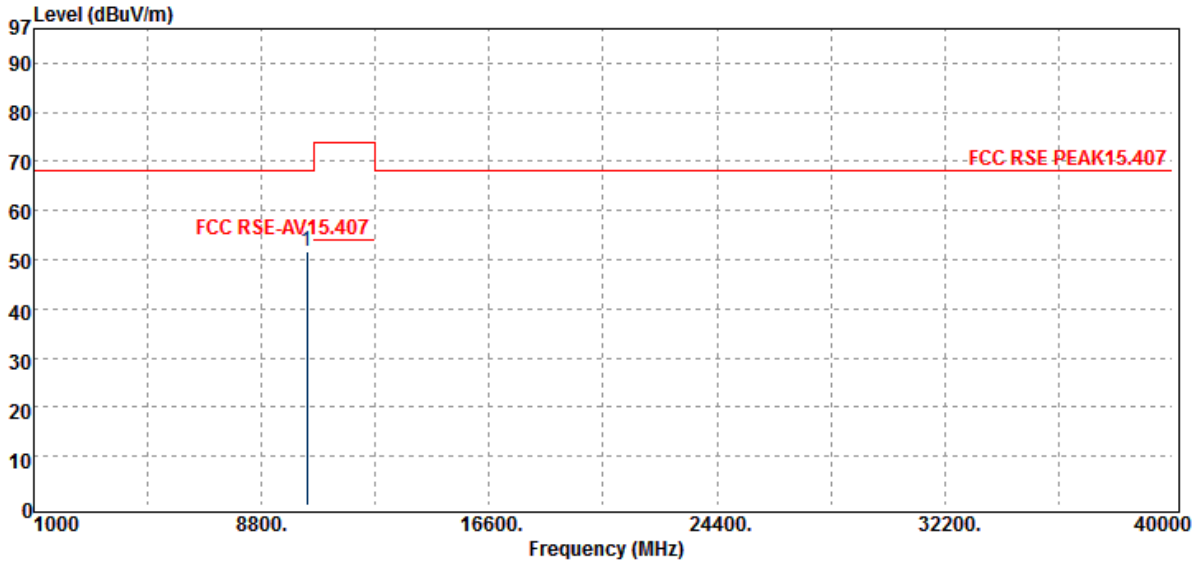
Operation Band	:802.11aB1	Test Date	:2017-02-09
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	33.56	18.29	51.85	68.30	-16.45

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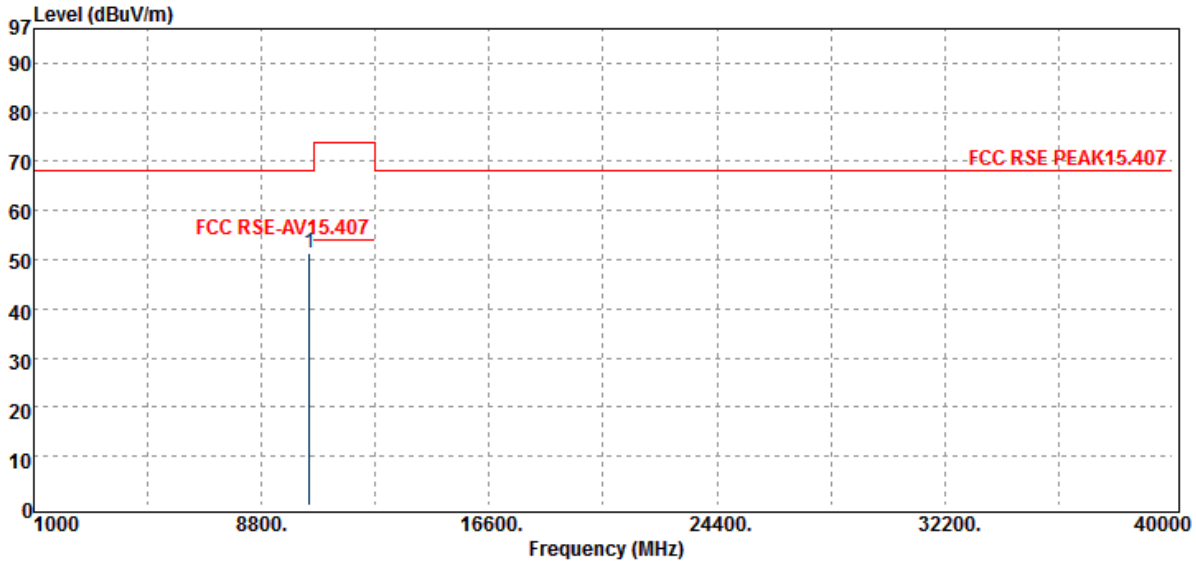
Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	32.62	18.69	51.31	68.30	-16.99

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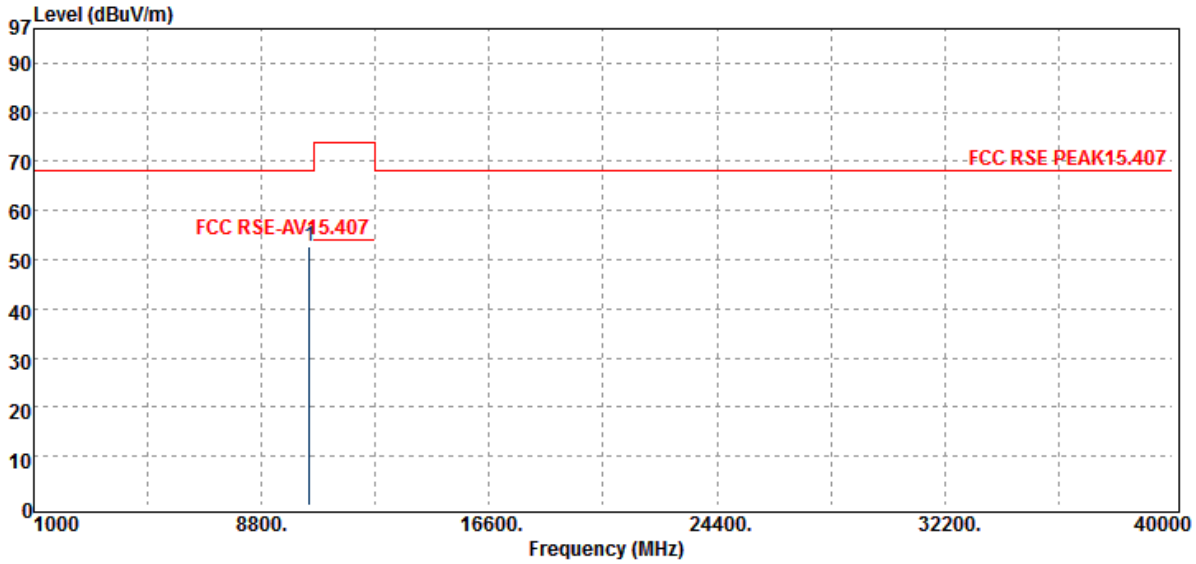
Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	33.97	18.69	52.66	68.30	-15.64

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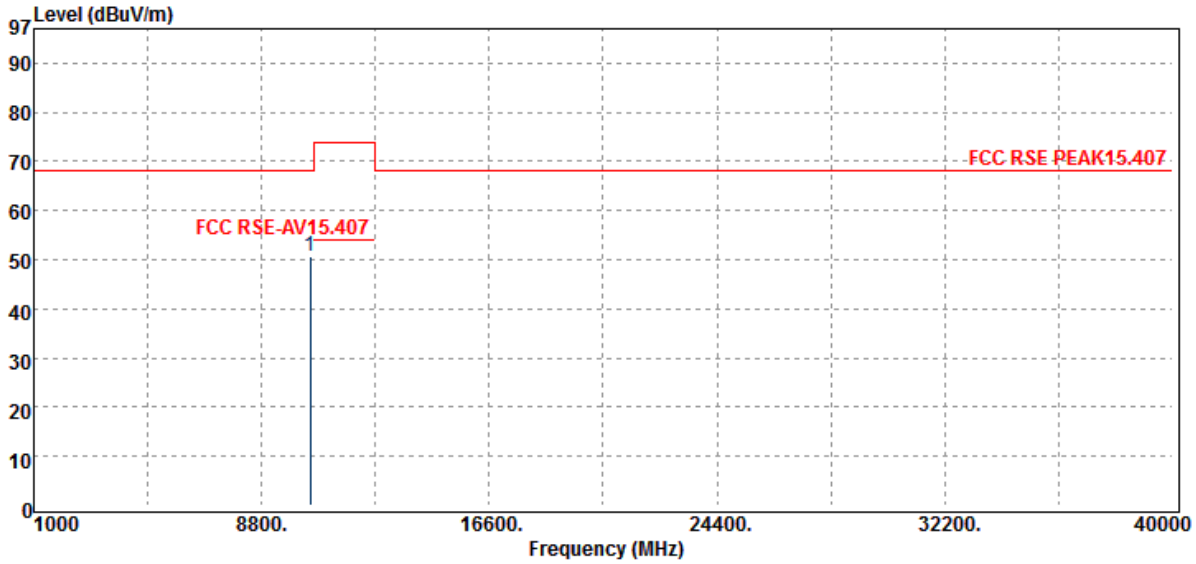
Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	32.43	18.30	50.73	68.30	-17.57

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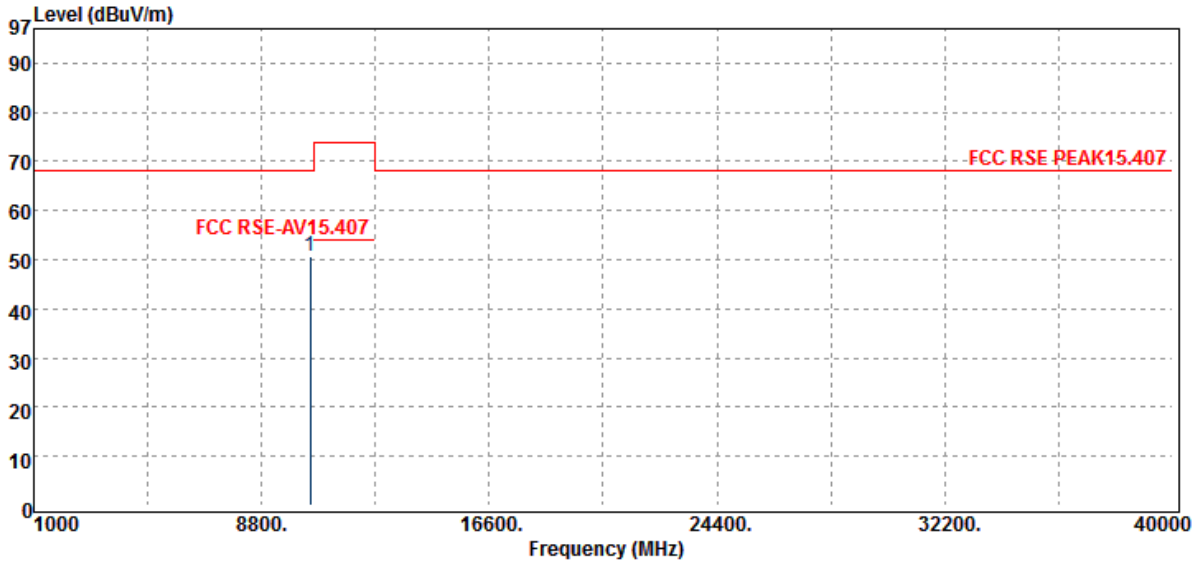
Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	32.39	18.30	50.69	68.30	-17.61

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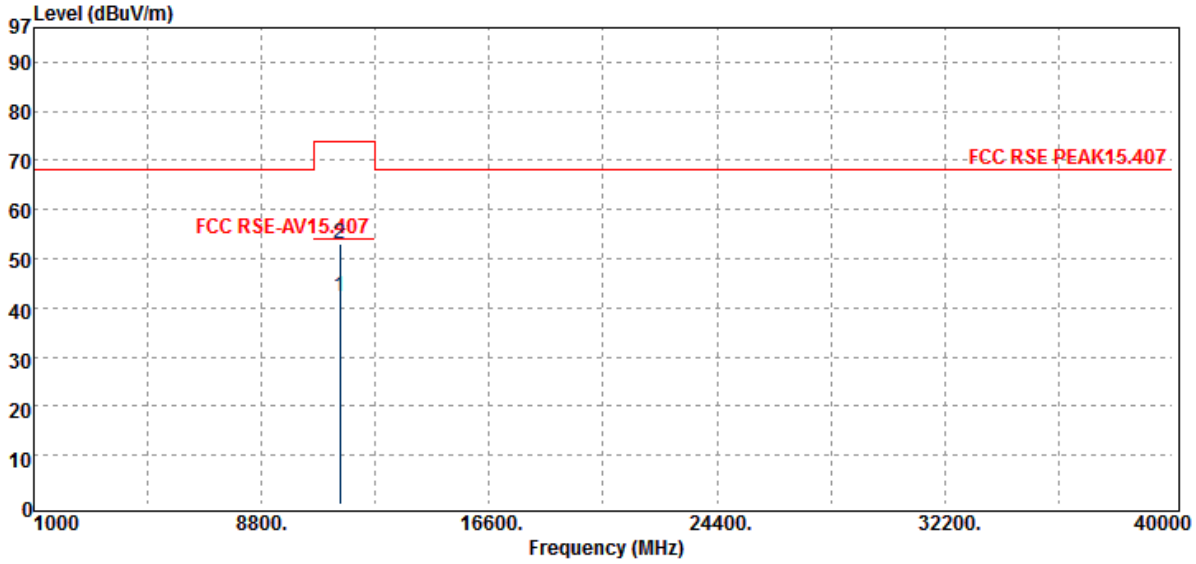
Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11490.00	H	Average	21.97	20.42	42.39	54.00	-11.61
11490.00	H	Peak	32.76	20.42	53.18	74.00	-20.82

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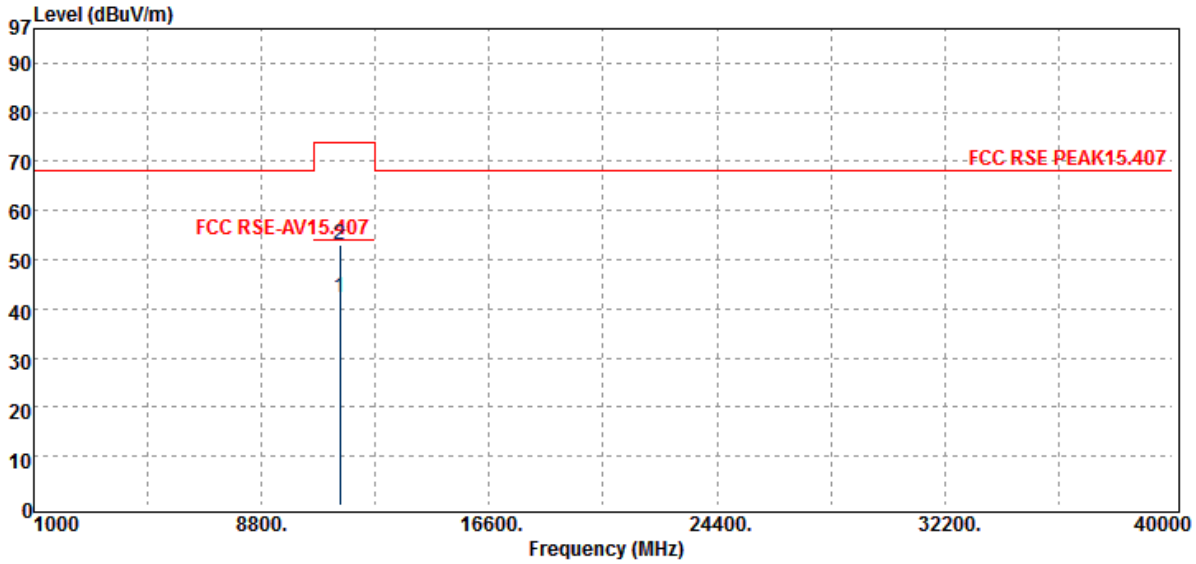
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	21.93	20.42	42.35	54.00	-11.65
11490.00	H	Peak	32.53	20.42	52.95	74.00	-21.05

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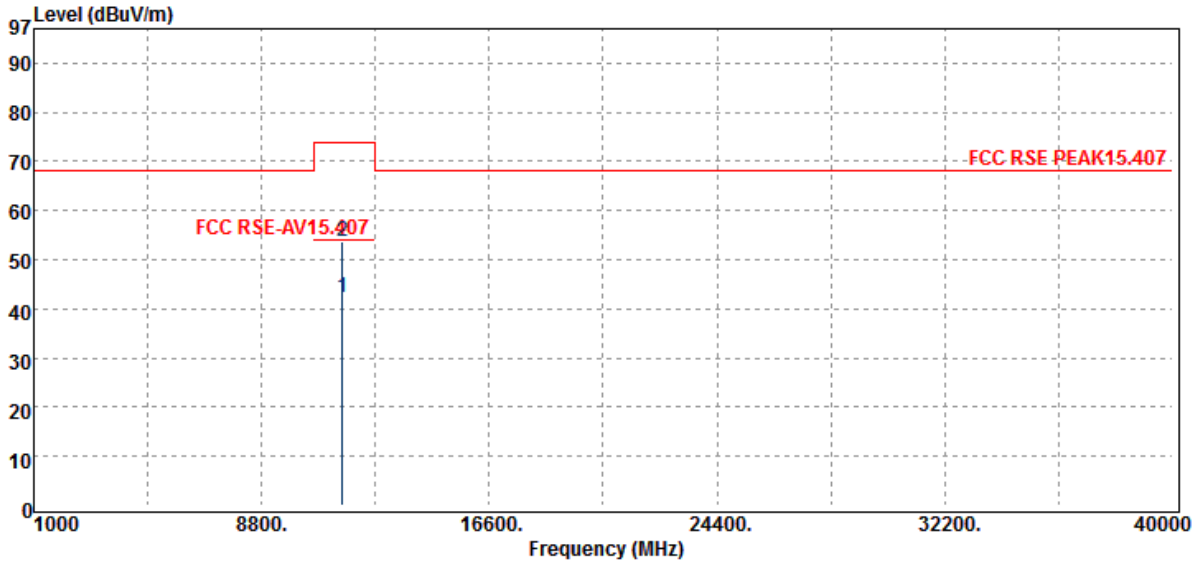
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	21.65	20.58	42.23	54.00	-11.77
11570.00	H	Peak	33.06	20.58	53.64	74.00	-20.36

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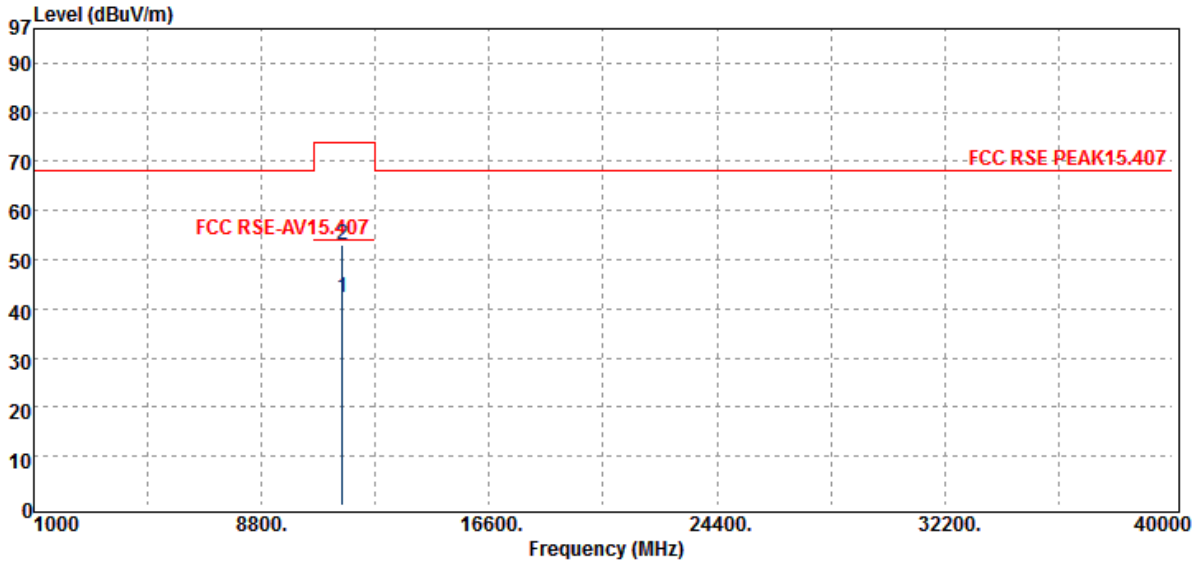
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	21.60	20.58	42.18	54.00	-11.82
11570.00	H	Peak	32.56	20.58	53.14	74.00	-20.86

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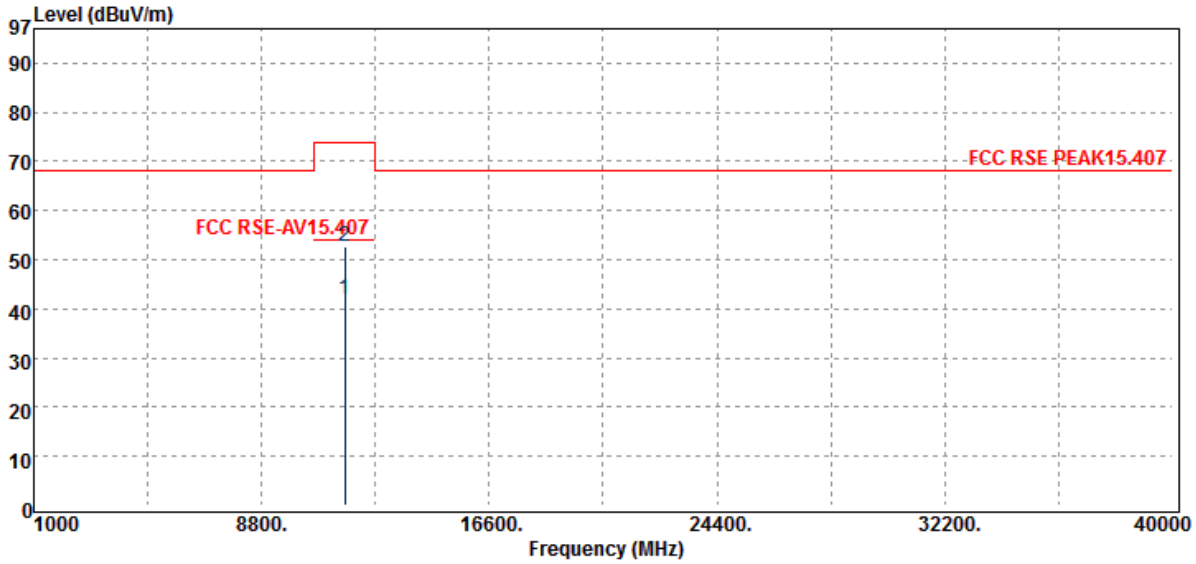
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
11650.00	H	Average	21.48	20.43	41.91	54.00	-12.09
11650.00	H	Peak	32.37	20.43	52.80	74.00	-21.20

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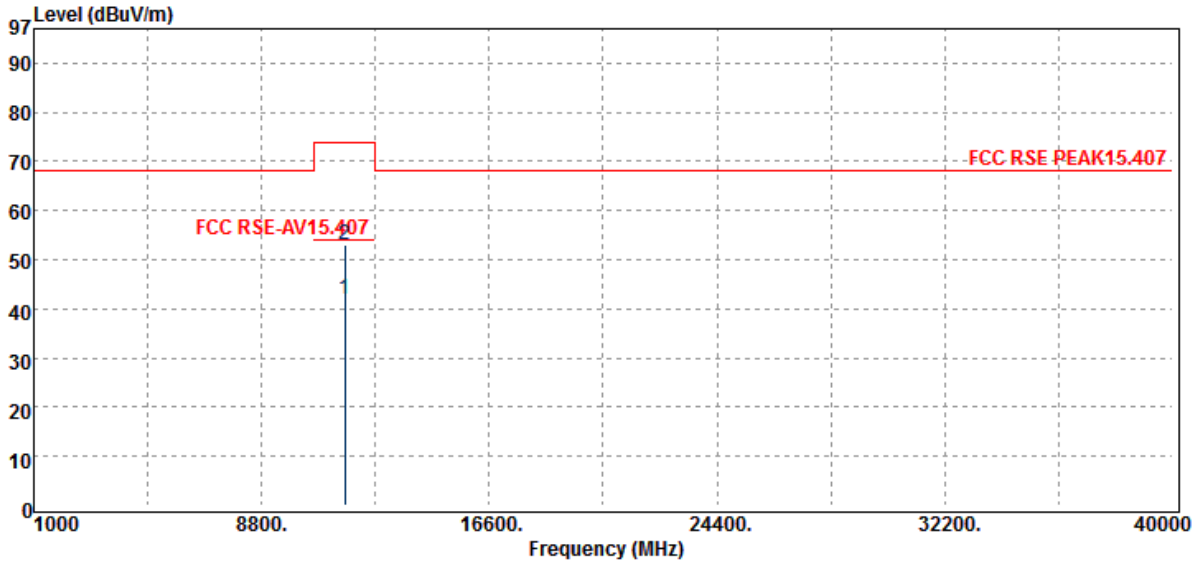
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11650.00	H	Average	21.51	20.43	41.94	54.00	-12.06
11650.00	H	Peak	32.50	20.43	52.93	74.00	-21.07

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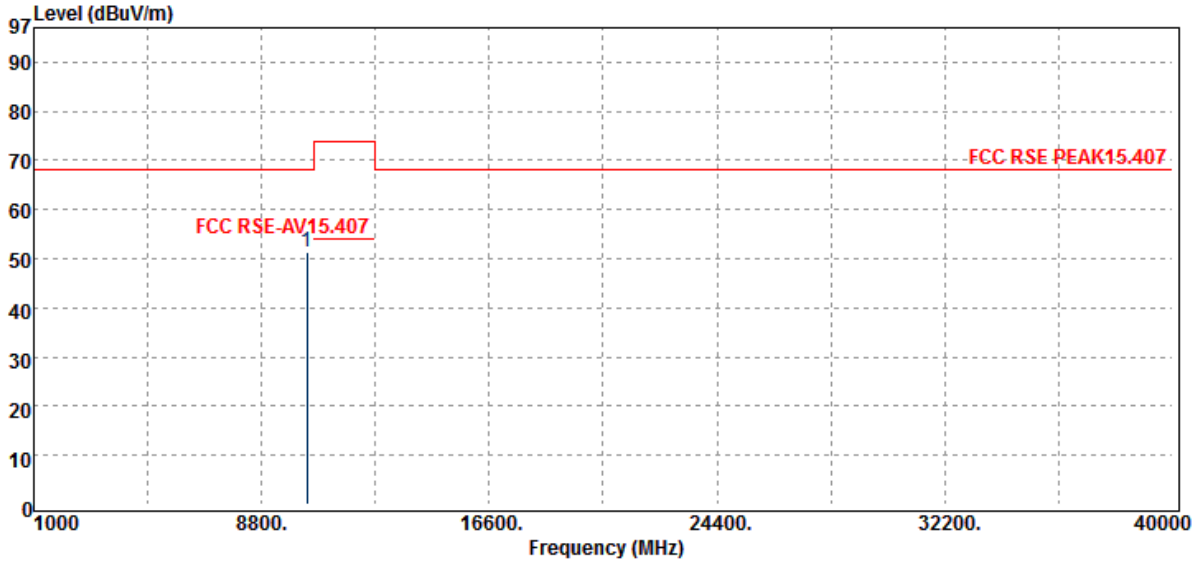
CDD Mode:

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

Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
10360.00	H	Peak	33.15	18.29	51.44	68.30	-16.86

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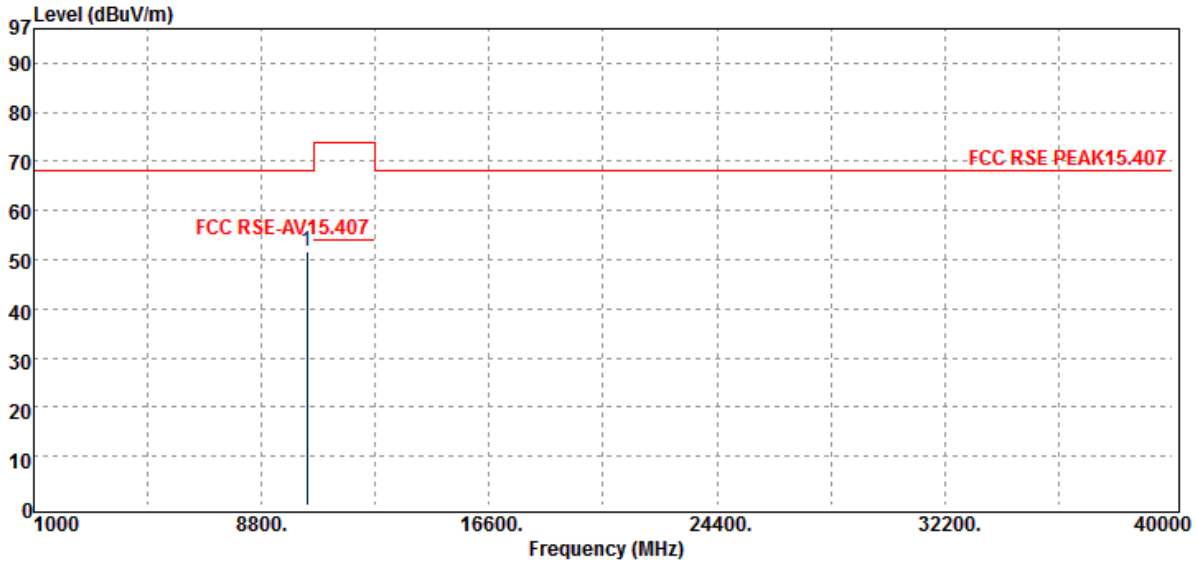
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	33.47	18.29	51.76	68.30	-16.54

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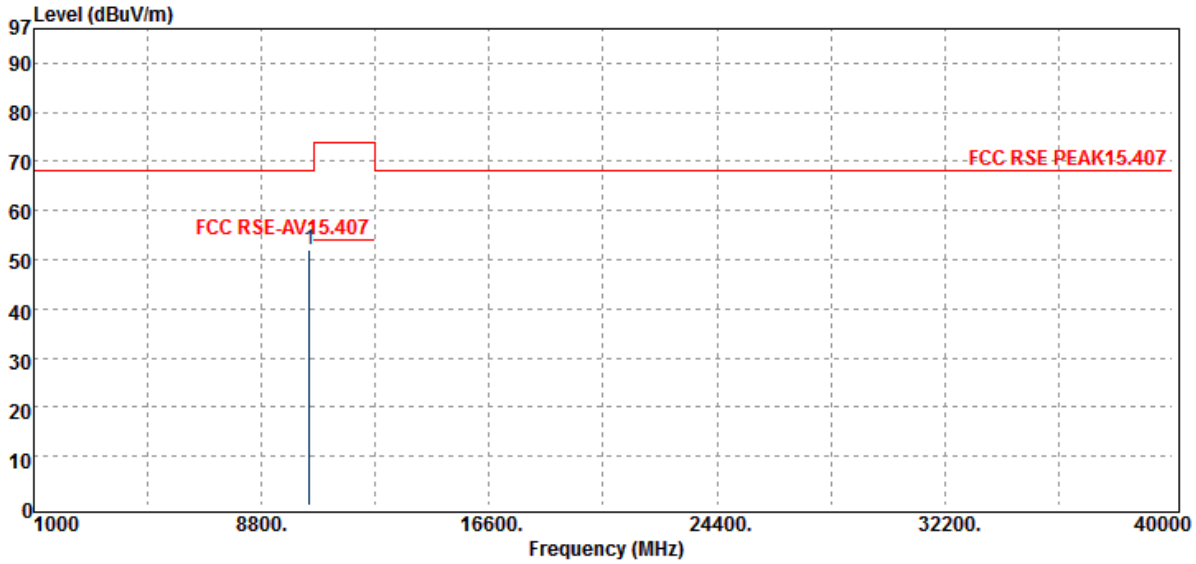
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	33.40	18.69	52.09	68.30	-16.21

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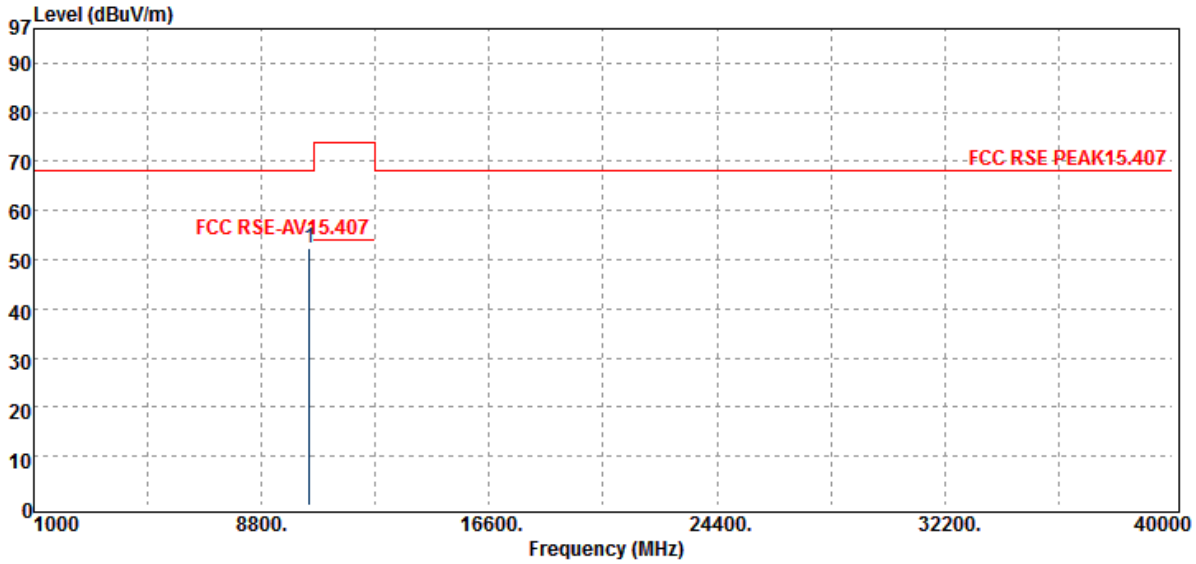
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	33.70	18.69	52.39	68.30	-15.91

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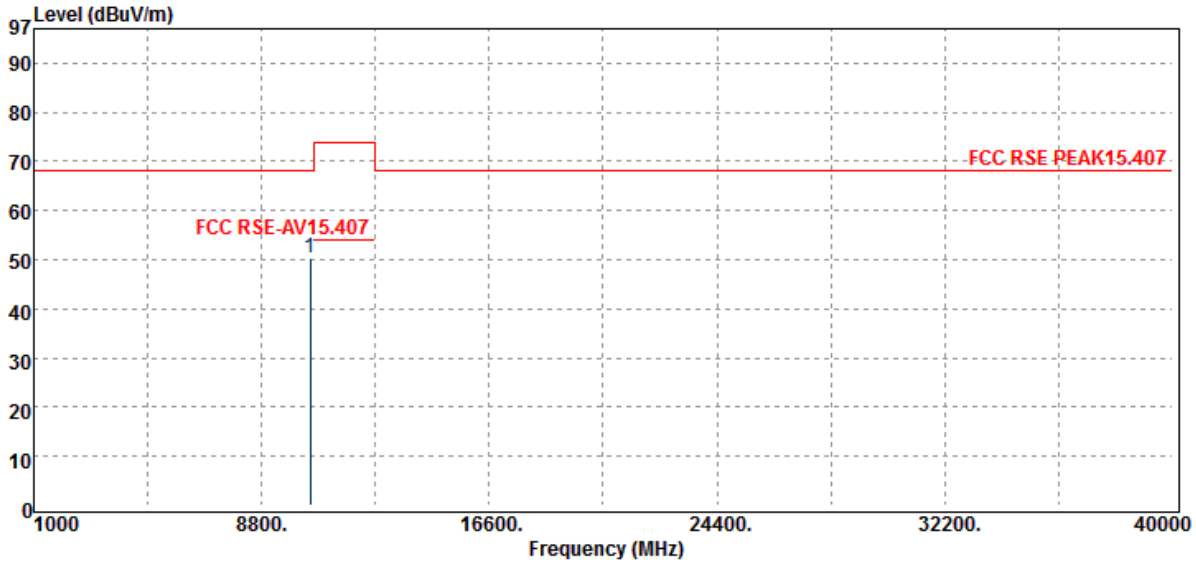
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	32.07	18.30	50.37	68.30	-17.93

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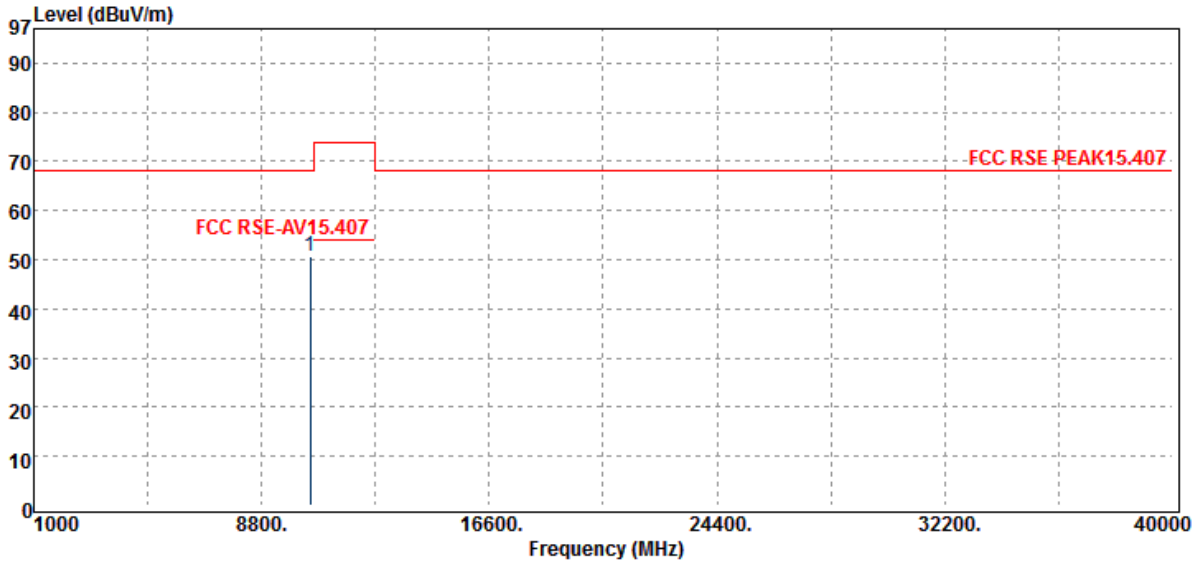
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	32.37	18.30	50.67	68.30	-17.63

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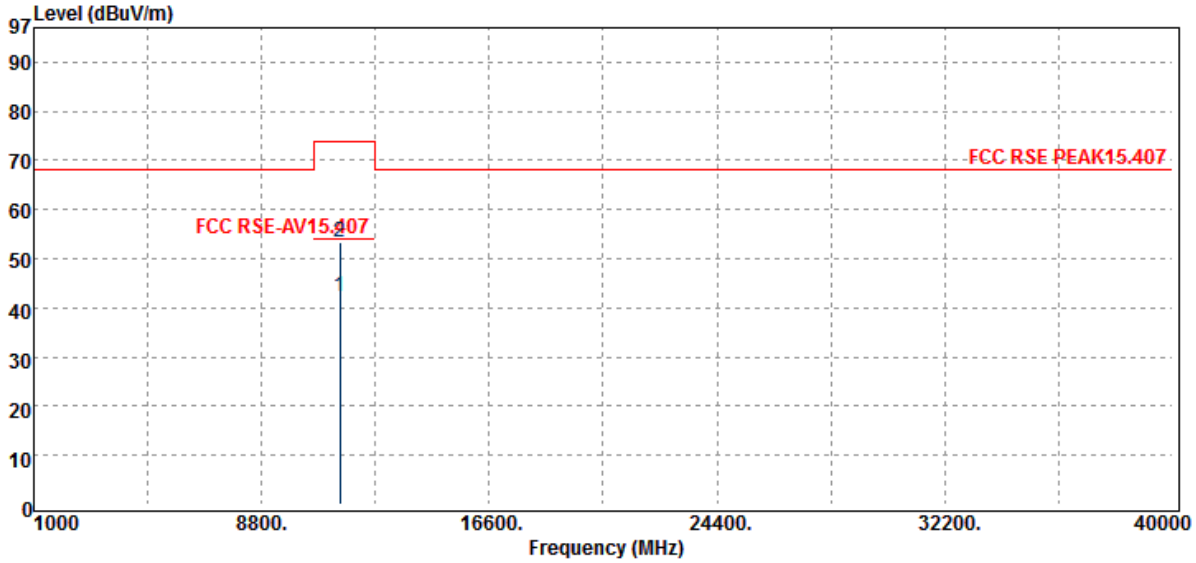
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11490.00	H	Average	21.84	20.42	42.26	54.00	-11.74
11490.00	H	Peak	32.86	20.42	53.28	74.00	-20.72

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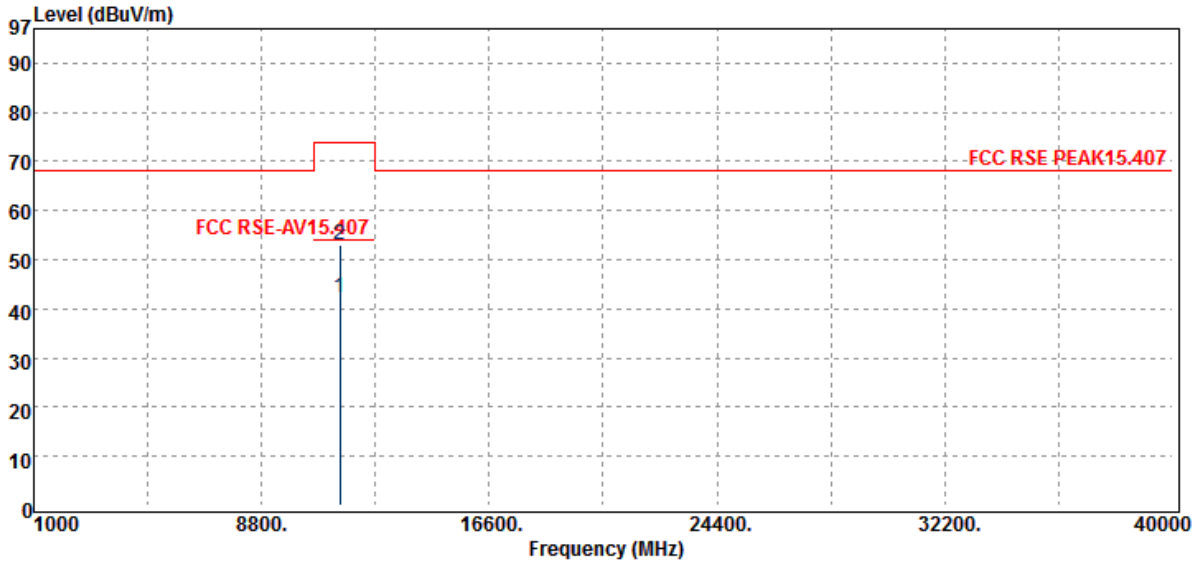
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11490.00	H	Average	21.73	20.42	42.15	54.00	-11.85
11490.00	H	Peak	32.49	20.42	52.91	74.00	-21.09

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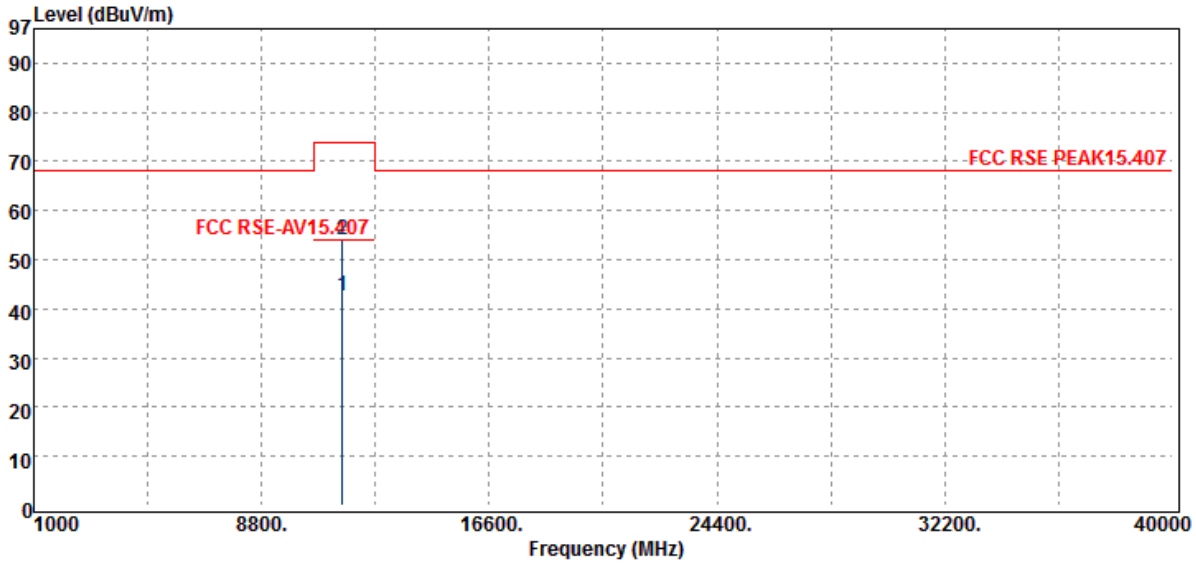
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	21.96	20.58	42.54	54.00	-11.46
11570.00	H	Peak	33.58	20.58	54.16	74.00	-19.84

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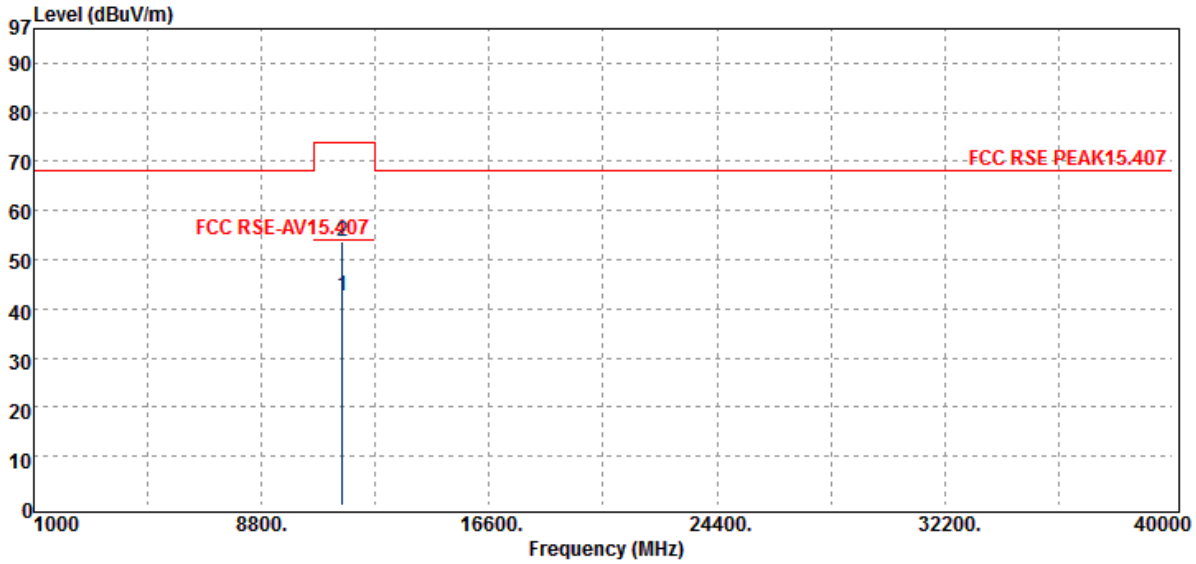
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	21.94	20.58	42.52	54.00	-11.48
11570.00	H	Peak	32.99	20.58	53.57	74.00	-20.43

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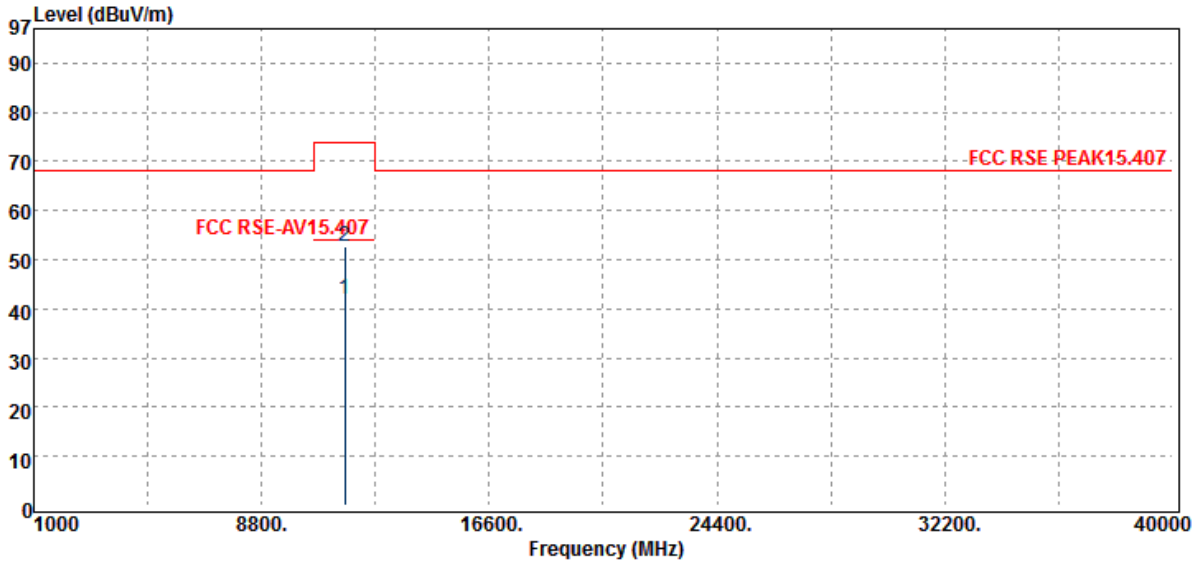
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
11650.00	H	Average	21.61	20.43	42.04	54.00	-11.96
11650.00	H	Peak	32.29	20.43	52.72	74.00	-21.28

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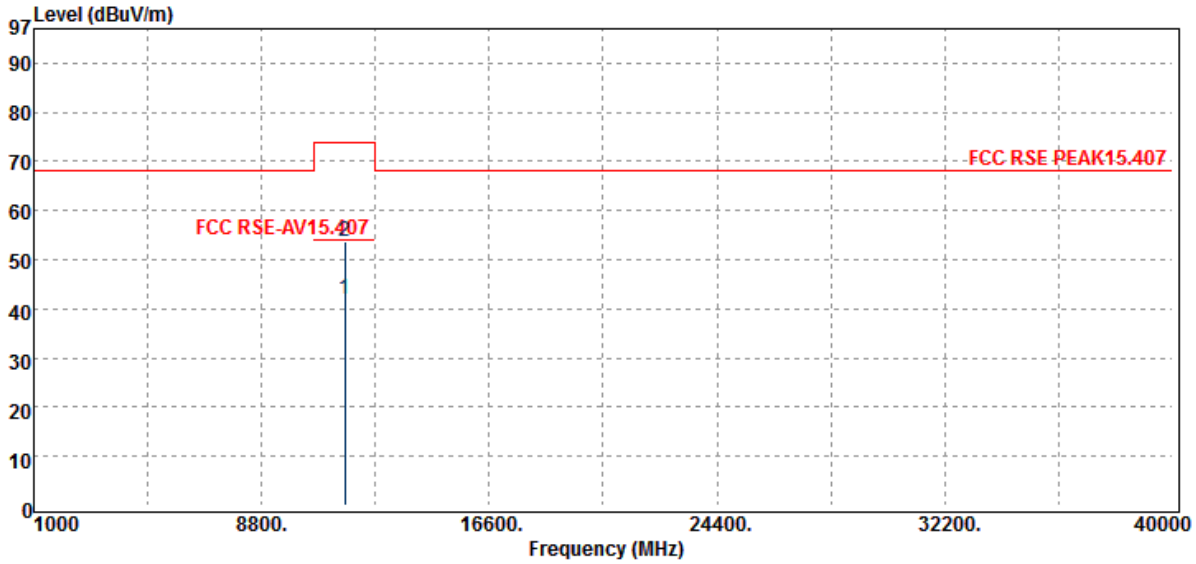
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
11650.00	H	Average	21.64	20.43	42.07	54.00	-11.93
11650.00	H	Peak	33.26	20.43	53.69	74.00	-20.31

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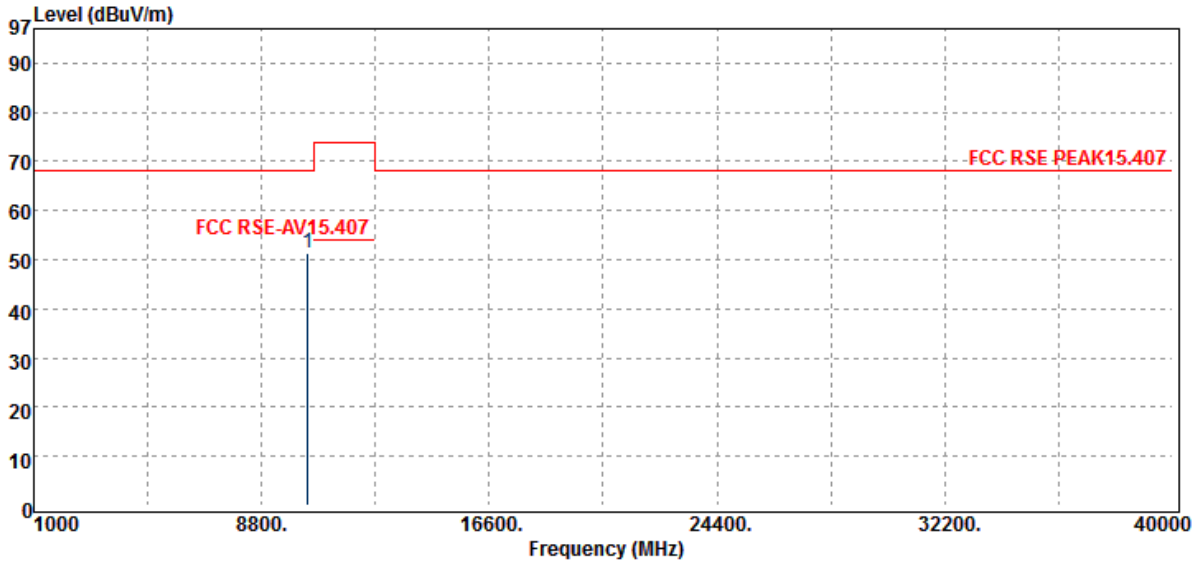
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
10380.00	H	Peak	33.22	18.12	51.34	68.30	-16.96

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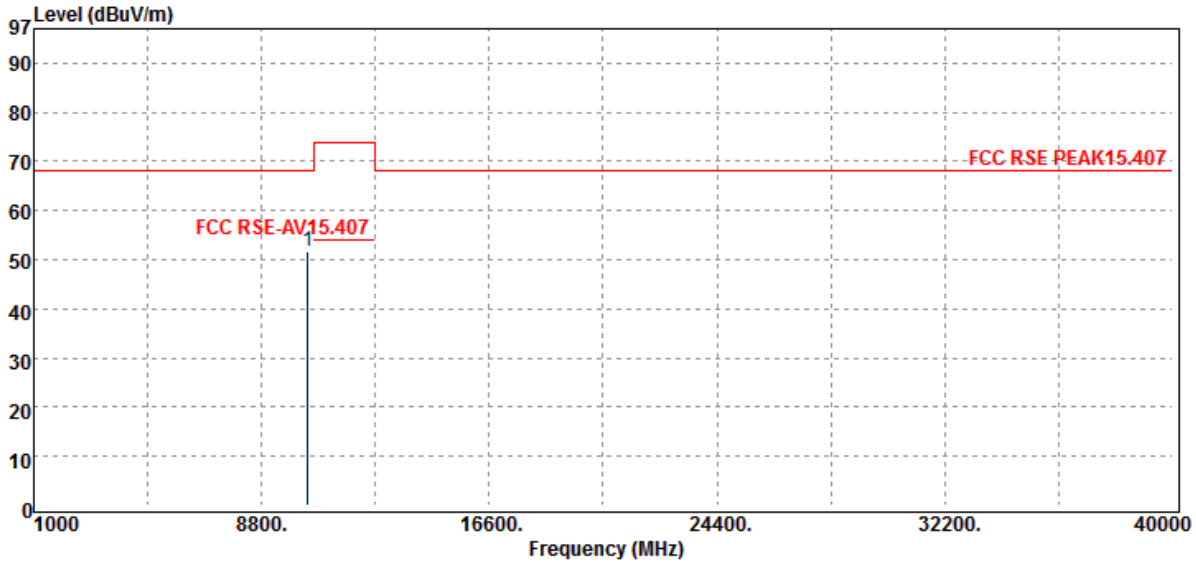
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	33.57	18.12	51.69	68.30	-16.61

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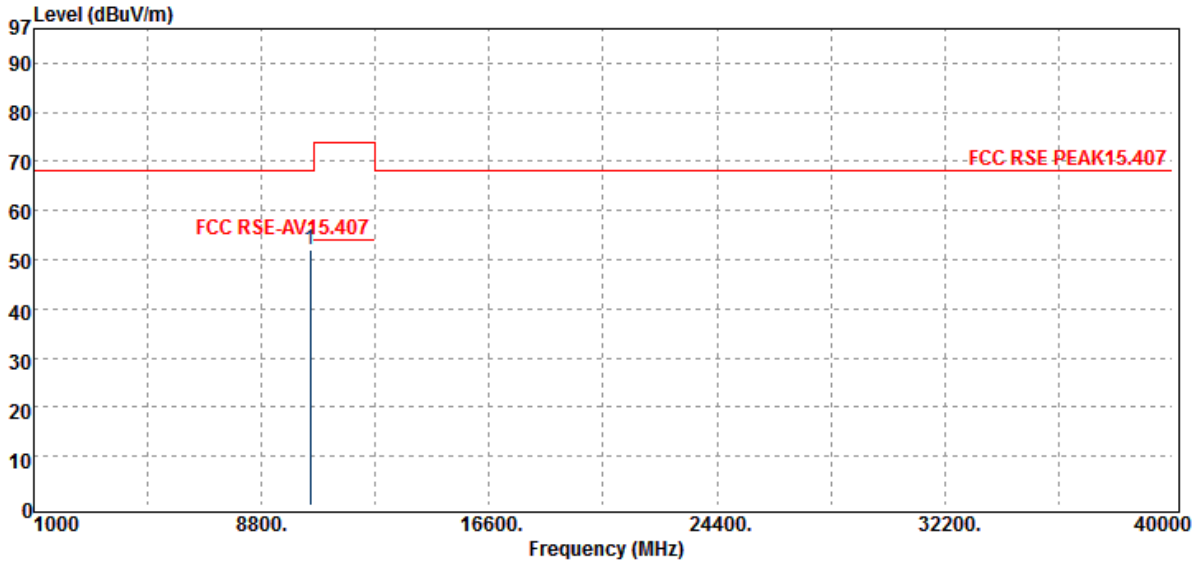
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	H	Peak	33.31	18.55	51.86	68.30	-16.44

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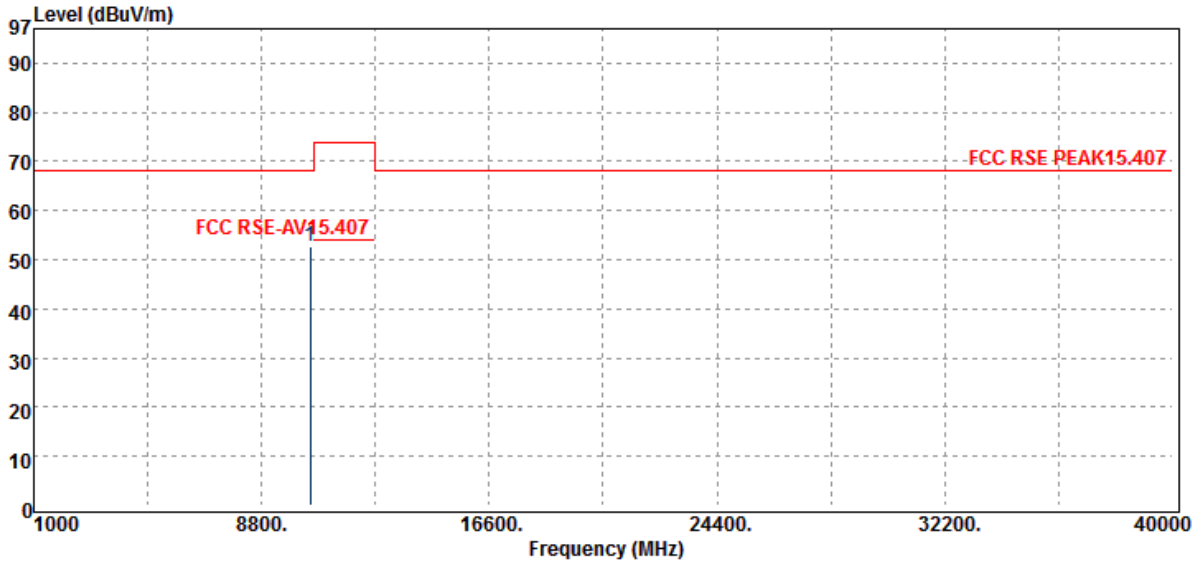
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	H	Peak	33.98	18.55	52.53	68.30	-15.77

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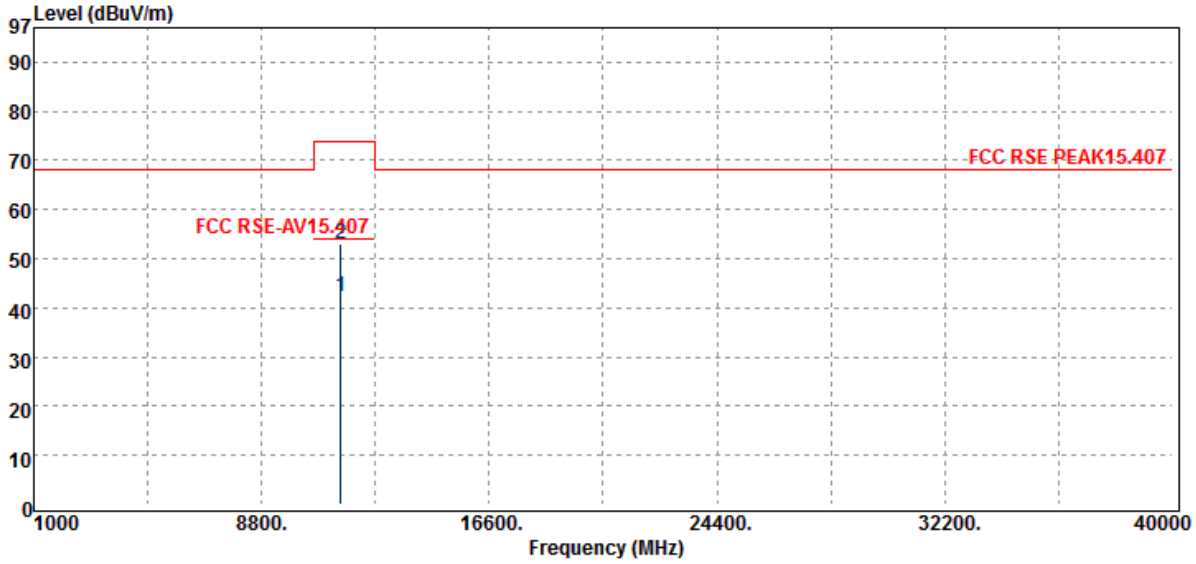
Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11510.00	H	Average	21.94	20.38	42.32	54.00	-11.68
11510.00	H	Peak	32.55	20.38	52.93	74.00	-21.07

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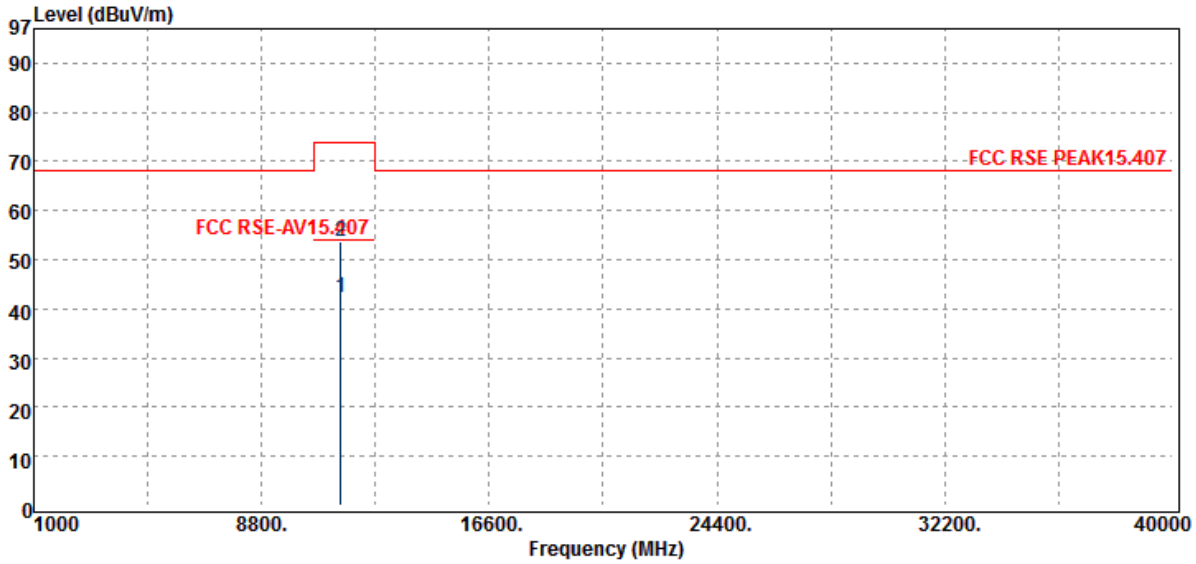
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11510.00	H	Average	22.00	20.38	42.38	54.00	-11.62
11510.00	H	Peak	33.18	20.38	53.56	74.00	-20.44

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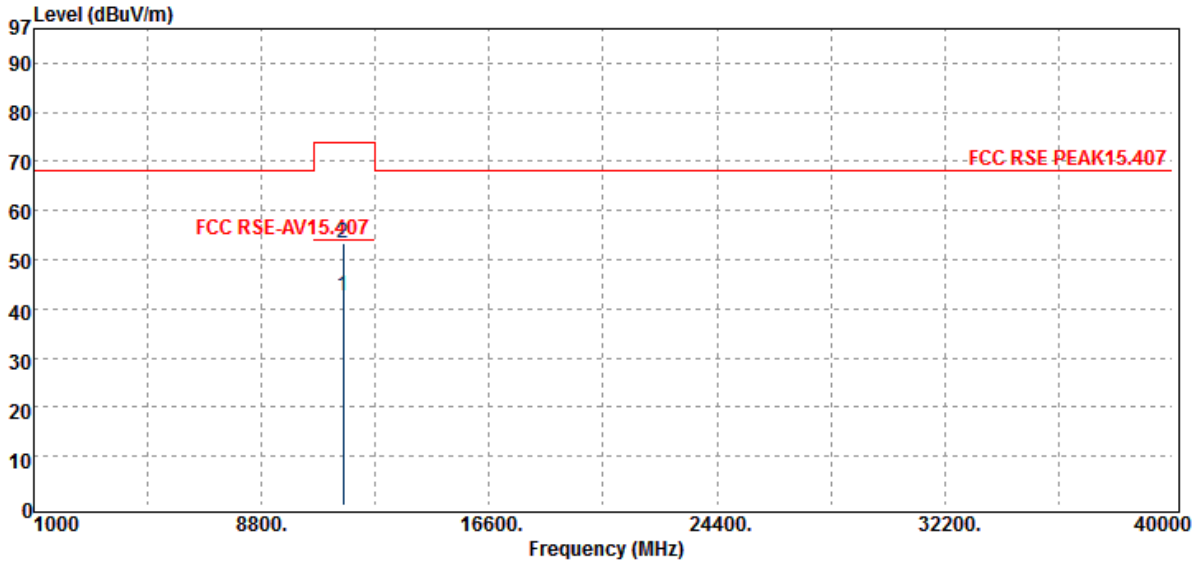
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.03	20.43	42.46	54.00	-11.54
11590.00	H	Peak	32.85	20.43	53.28	74.00	-20.72

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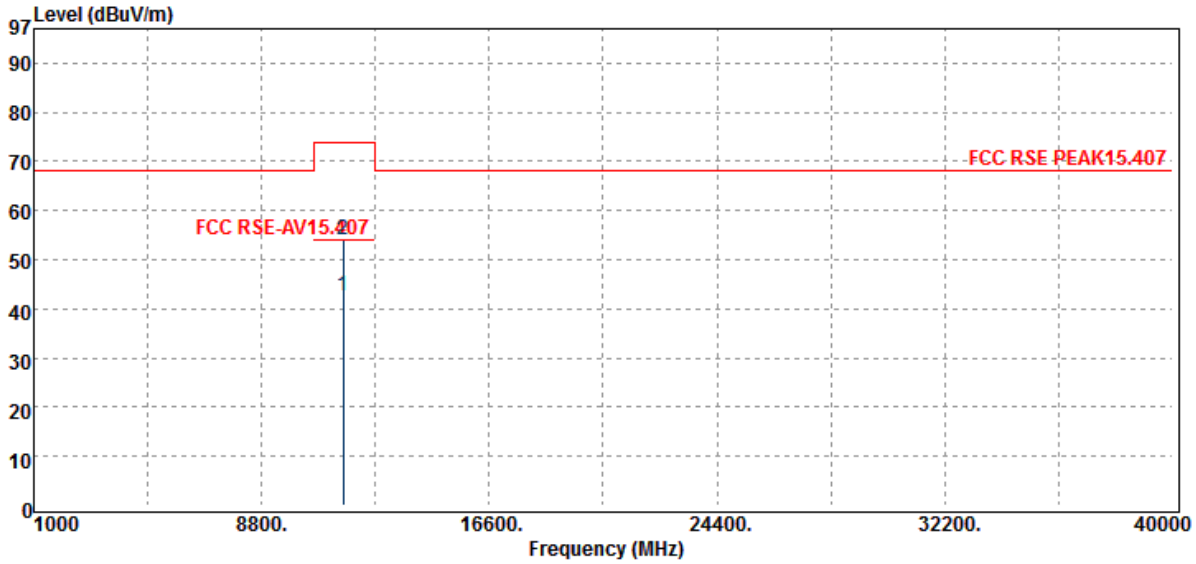
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
11590.00	H	Average	22.05	20.43	42.48	54.00	-11.52
11590.00	H	Peak	33.55	20.43	53.98	74.00	-20.02

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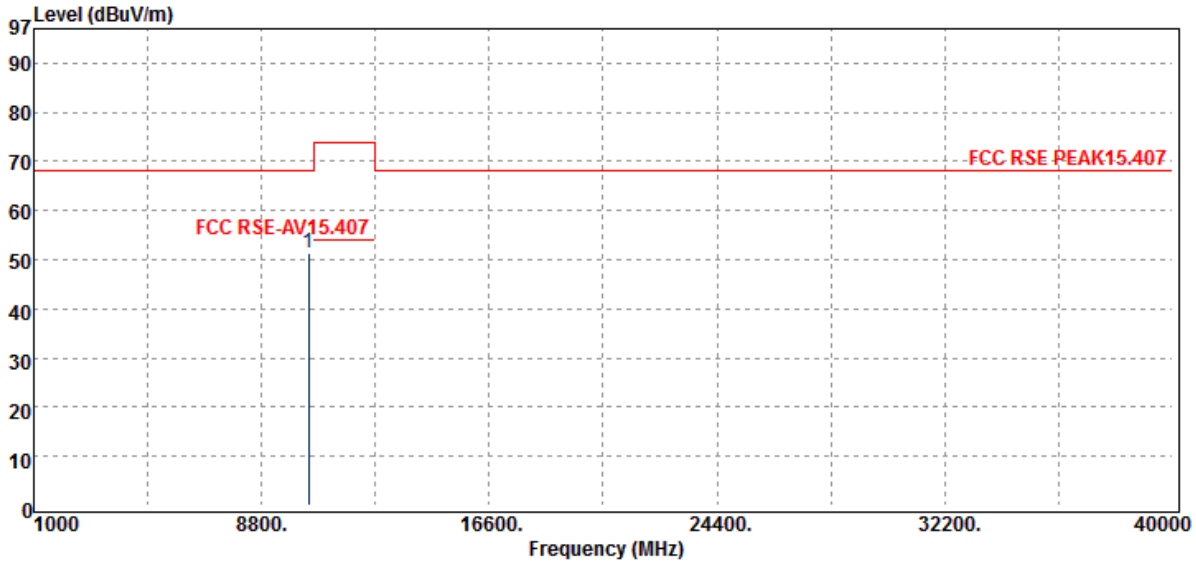
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
10420.00	H	Peak	32.51	18.71	51.22	68.30	-17.08

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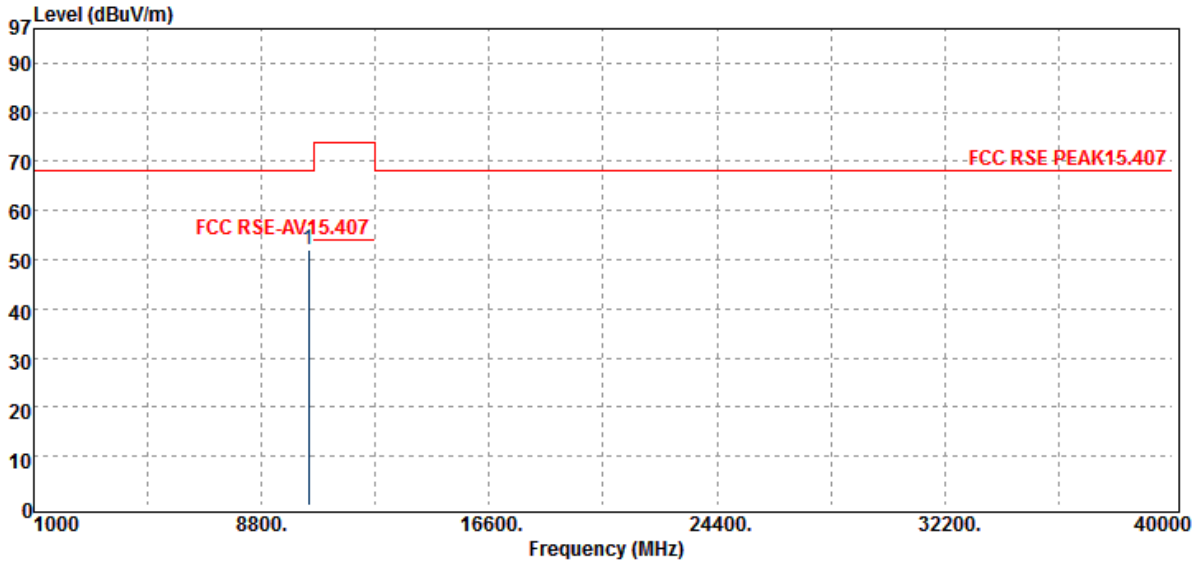
Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
10420.00	H	Peak	33.31	18.71	52.02	68.30	-16.28

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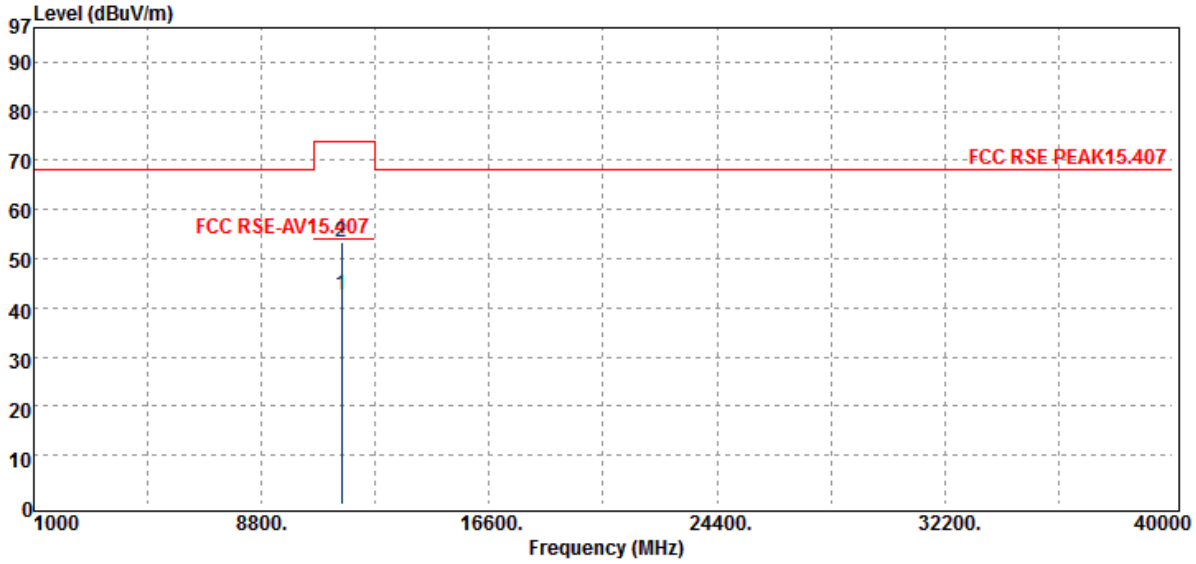
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11550.00	H	Average	22.00	20.51	42.51	54.00	-11.49
11550.00	H	Peak	33.00	20.51	53.51	74.00	-20.49

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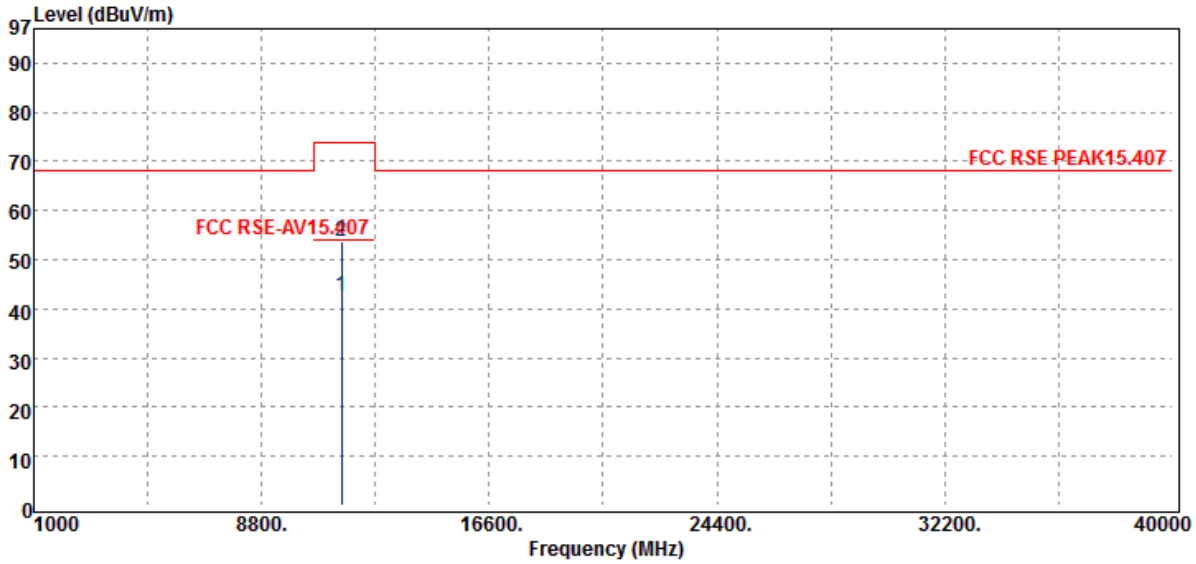
Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11550.00	H	Average	21.99	20.51	42.50	54.00	-11.50
11550.00	H	Peak	33.03	20.51	53.54	74.00	-20.46

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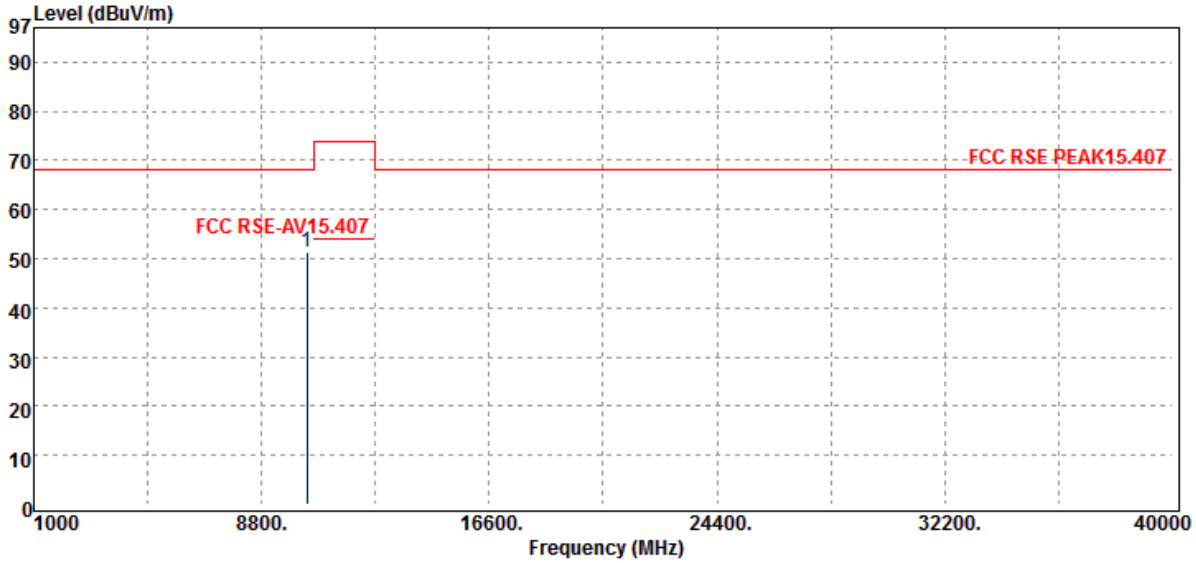
Beam Forming Mode:

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

Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
10360.00	H	Peak	33.22	18.29	51.51	68.30	-16.79

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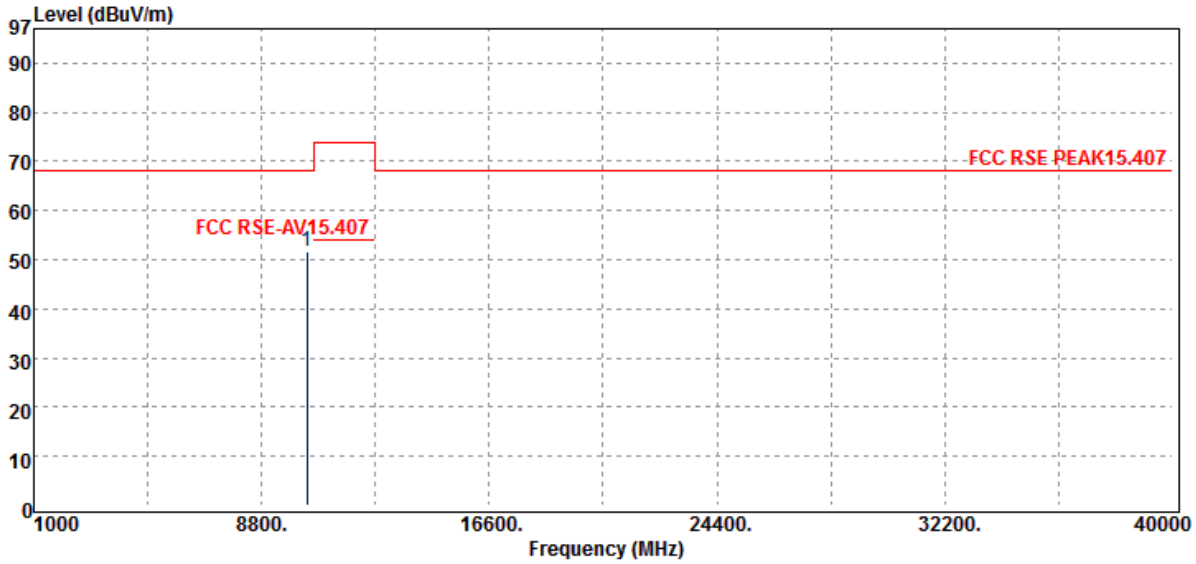
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10360.00	H	Peak	33.39	18.29	51.68	68.30	-16.62

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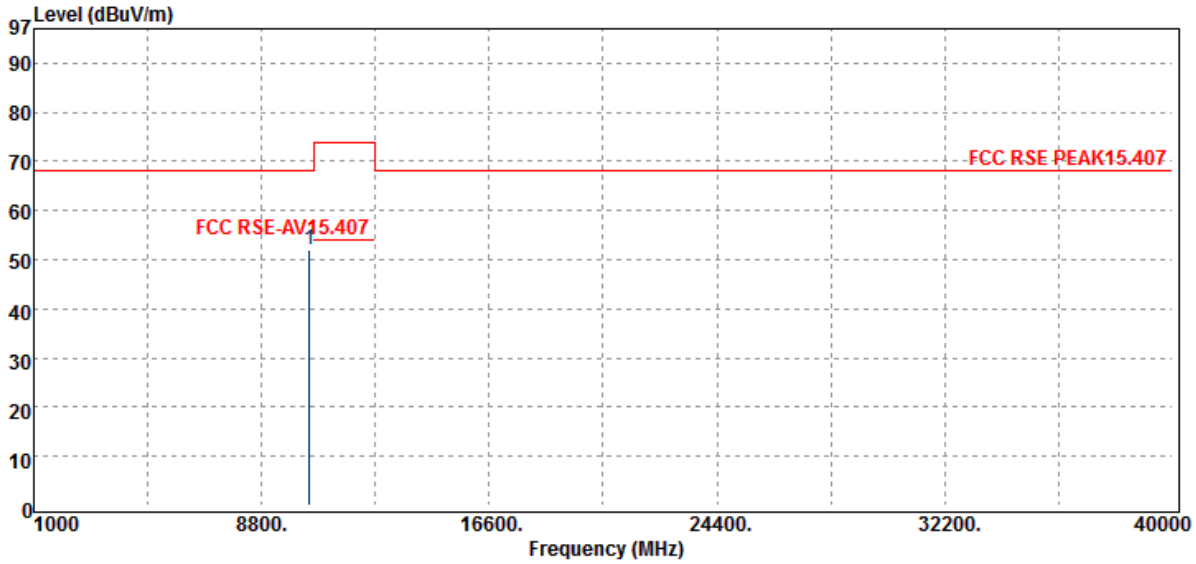
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	33.46	18.69	52.15	68.30	-16.15

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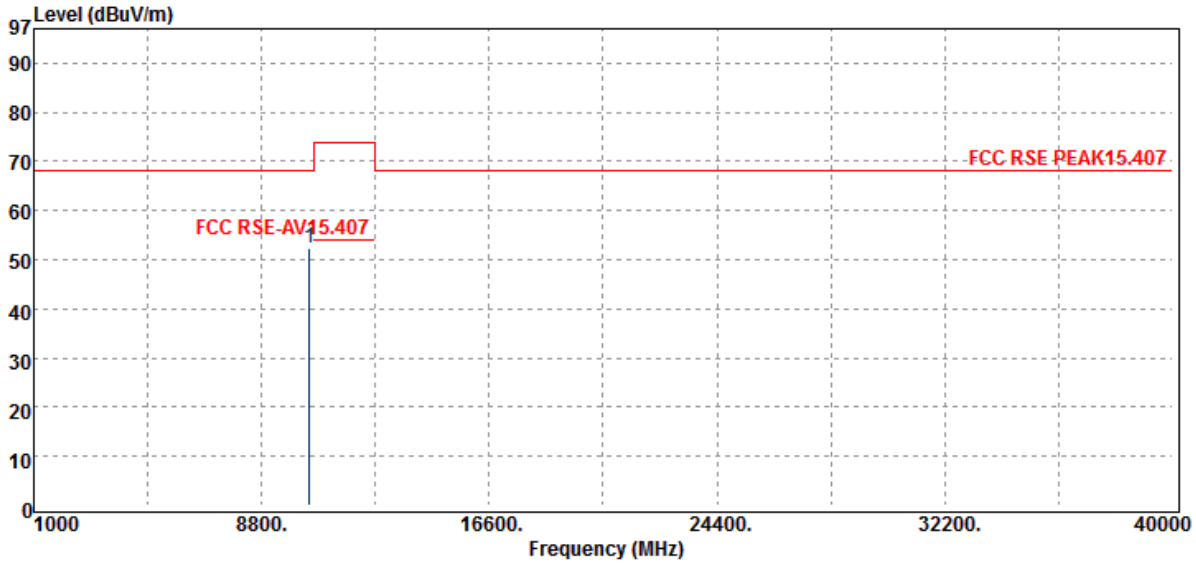
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10440.00	H	Peak	33.74	18.69	52.43	68.30	-15.87

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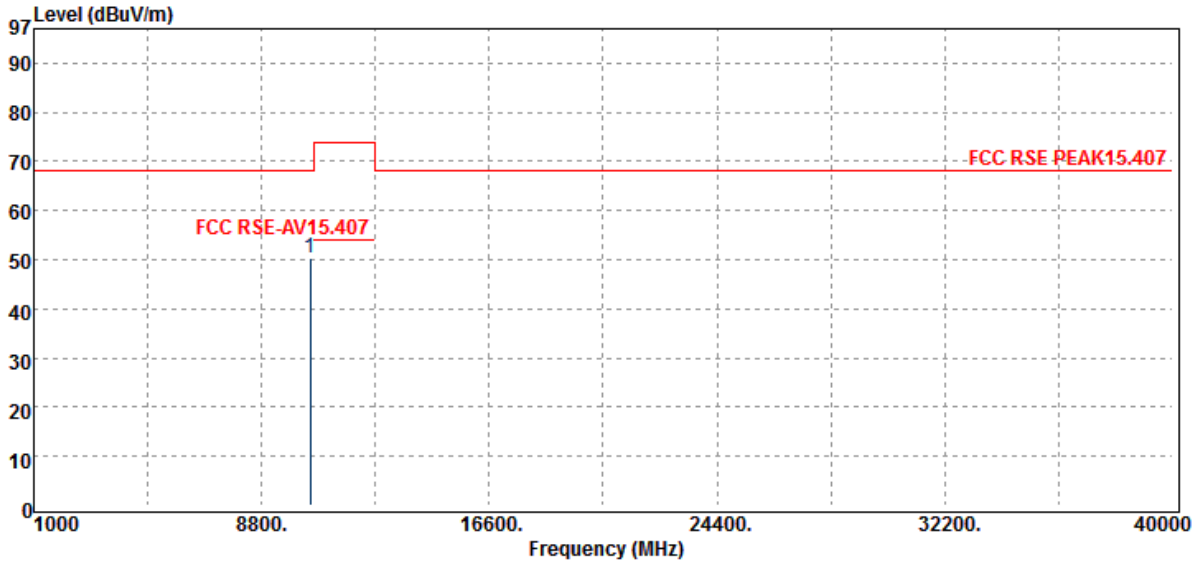
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10480.00	H	Peak	32.12	18.30	50.42	68.30	-17.88

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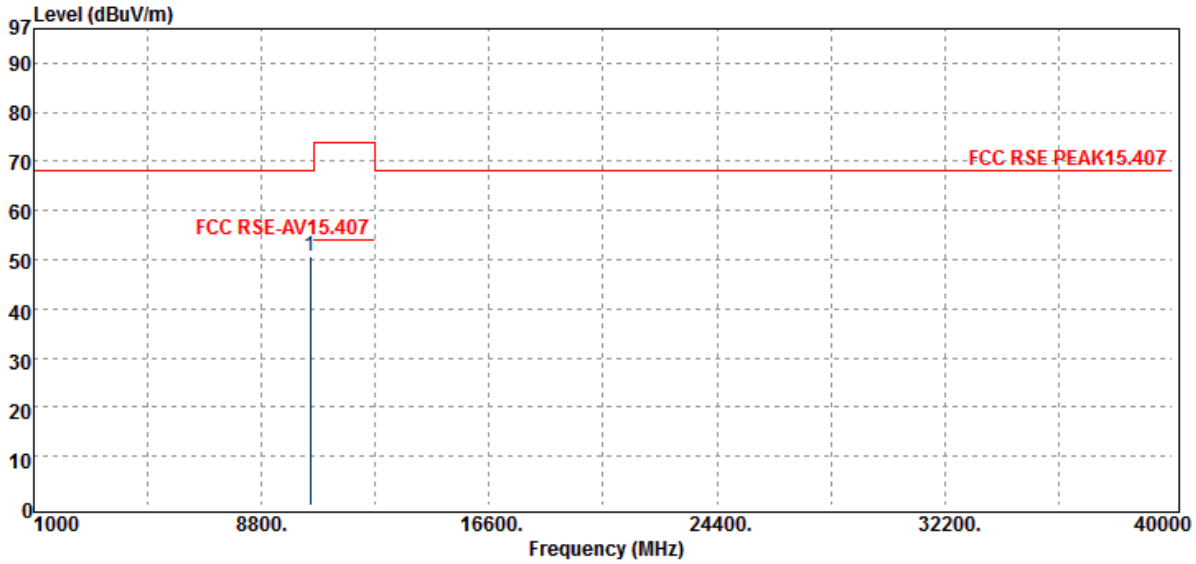
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
10480.00	H	Peak	32.40	18.30	50.70	68.30	-17.60

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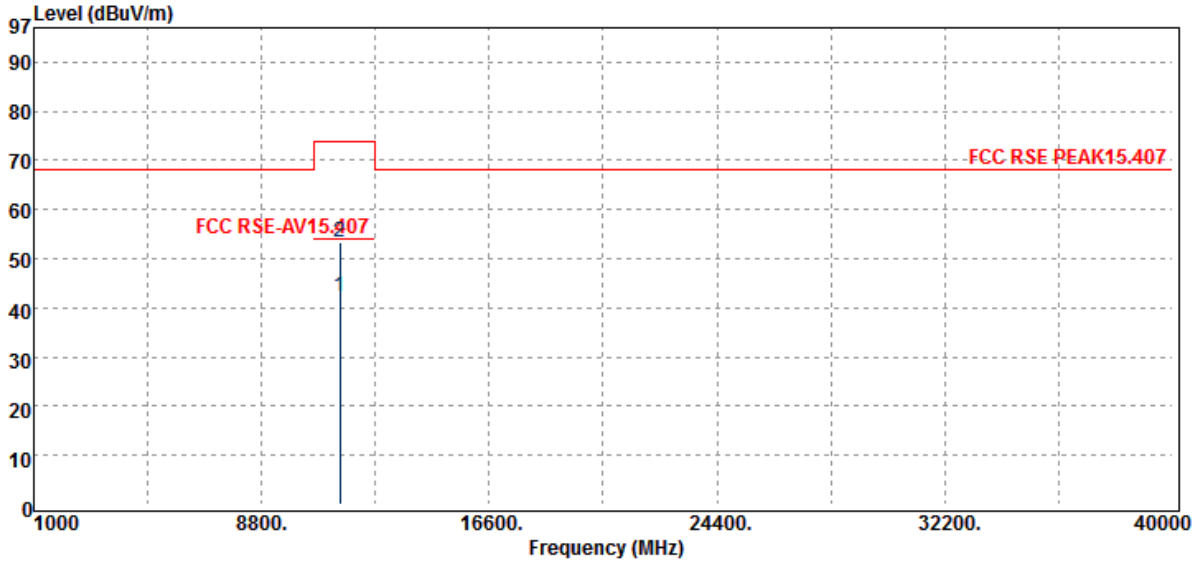
Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11490.00	H	Average	21.93	20.42	42.35	54.00	-11.65
11490.00	H	Peak	32.91	20.42	53.33	74.00	-20.67

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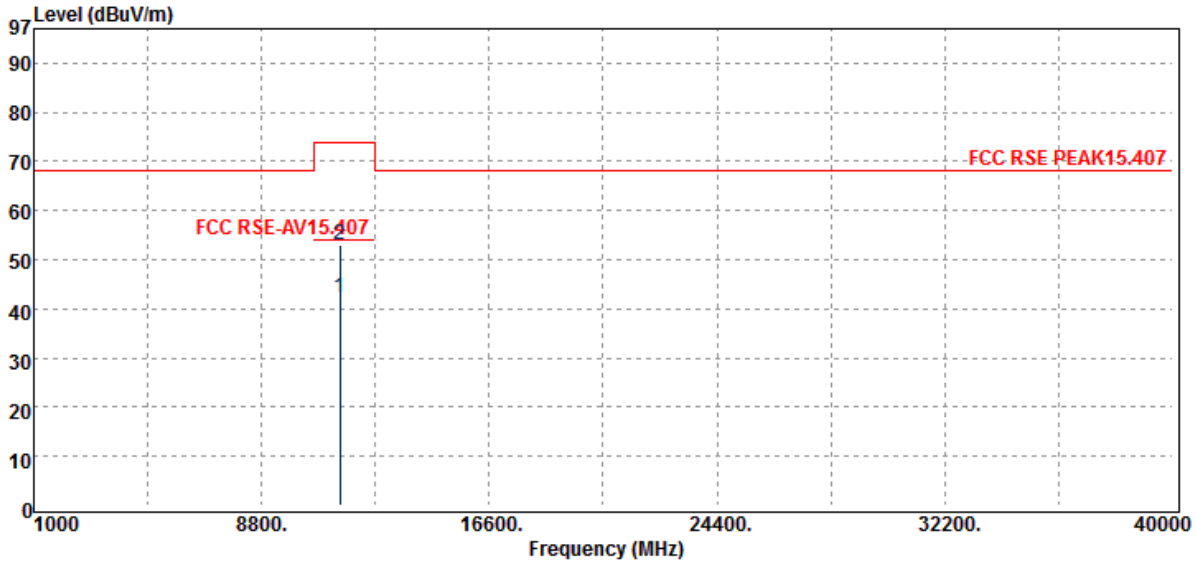
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
11490.00	H	Average	21.79	20.42	42.21	54.00	-11.79
11490.00	H	Peak	32.55	20.42	52.97	74.00	-21.03

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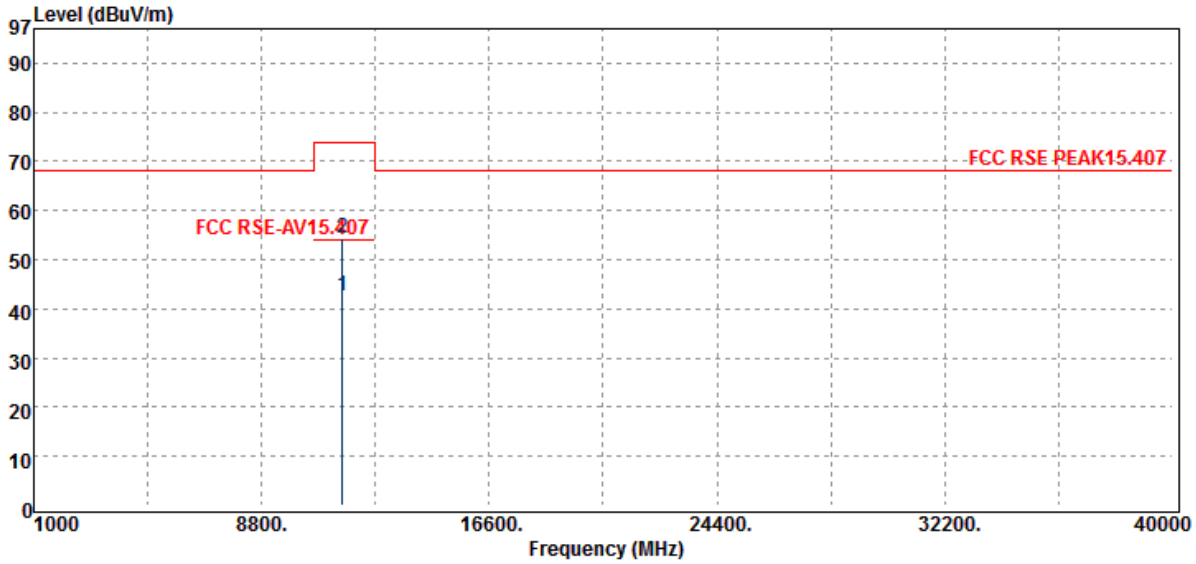
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.02	20.58	42.60	54.00	-11.40
11570.00	H	Peak	33.66	20.58	54.24	74.00	-19.76

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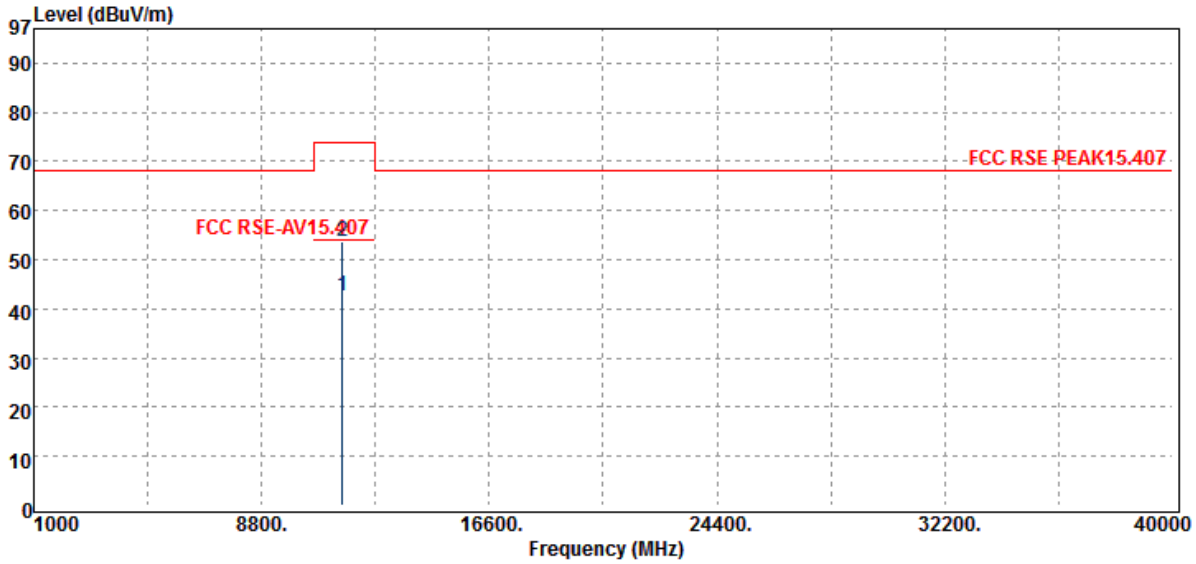
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5785 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH MID	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11570.00	H	Average	22.00	20.58	42.58	54.00	-11.42
11570.00	H	Peak	33.07	20.58	53.65	74.00	-20.35

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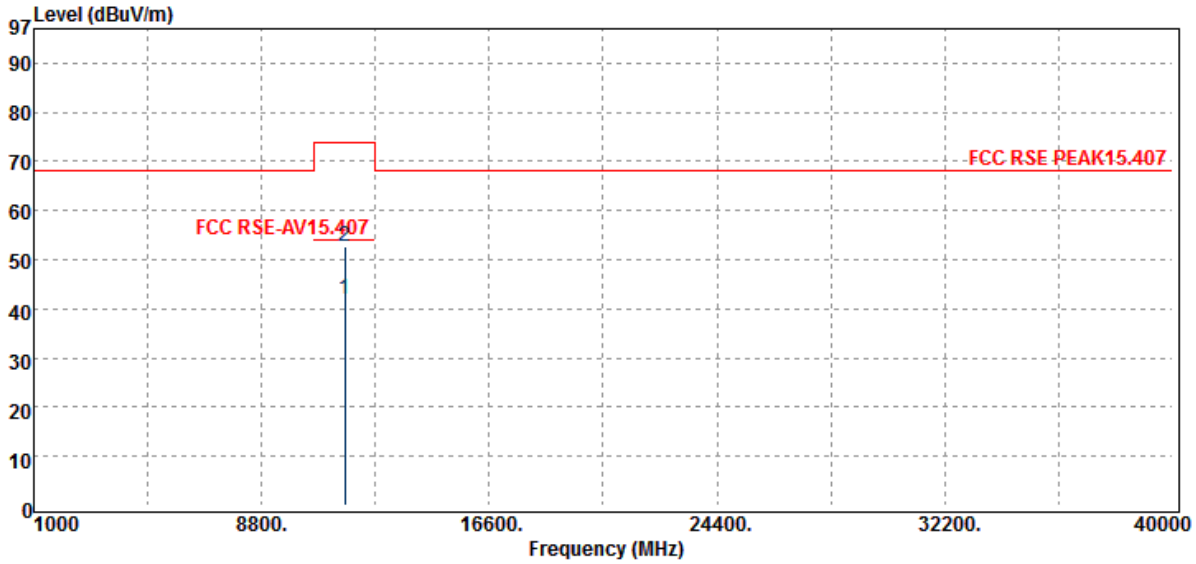
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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	Safe Margin dB
11650.00	H	Average	21.69	20.43	42.12	54.00	-11.88
11650.00	H	Peak	32.36	20.43	52.79	74.00	-21.21

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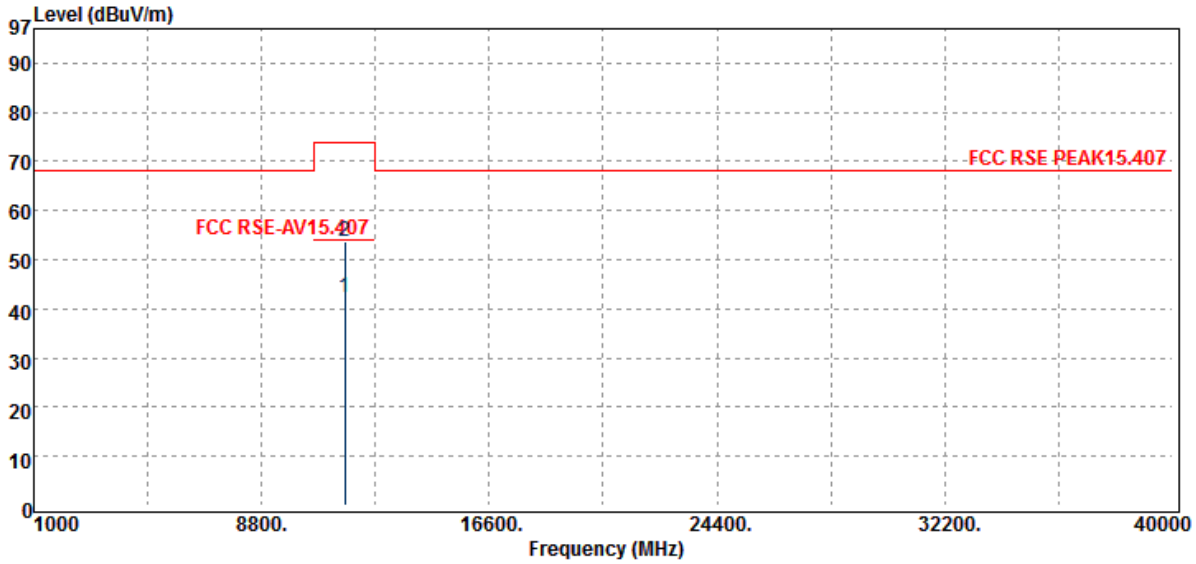
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
11650.00	H	Average	21.74	20.43	42.17	54.00	-11.83
11650.00	H	Peak	33.35	20.43	53.78	74.00	-20.22

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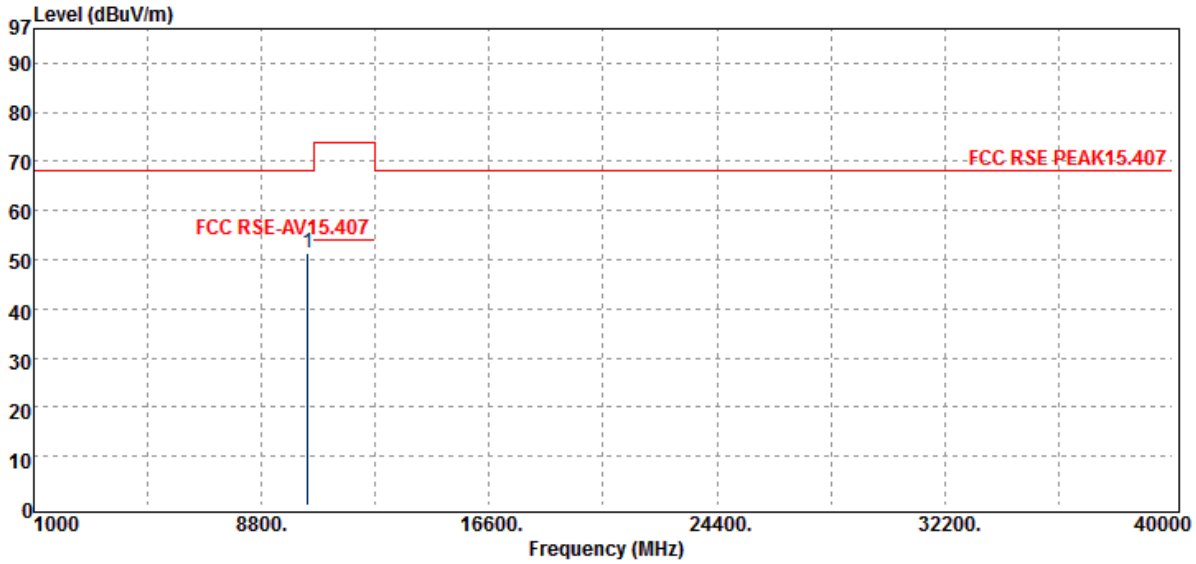
Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	33.31	18.12	51.43	68.30	-16.87

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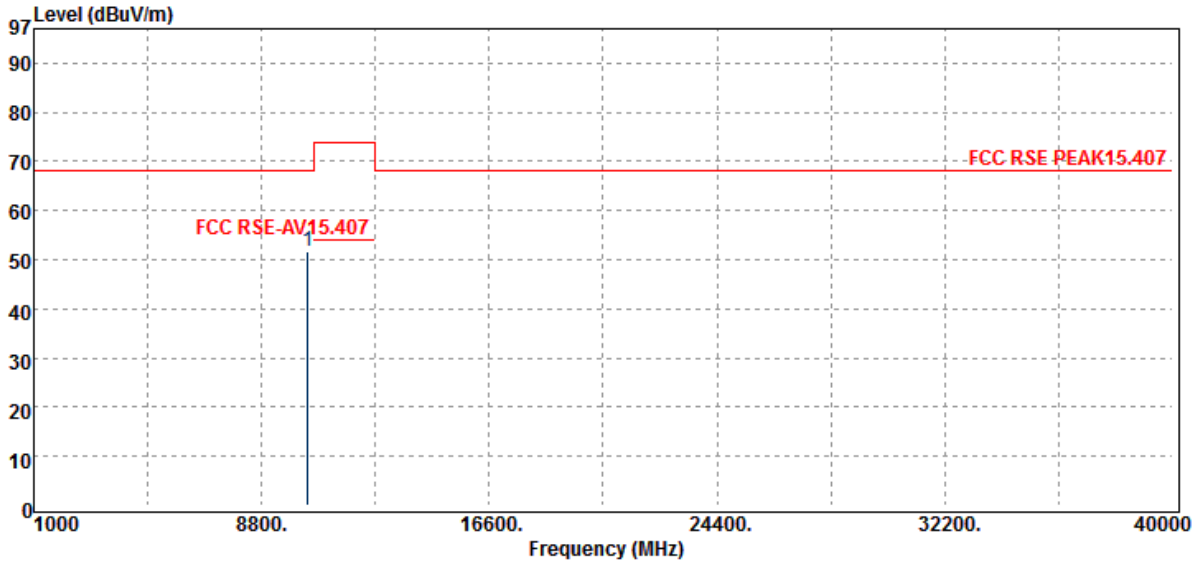
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10380.00	H	Peak	33.62	18.12	51.74	68.30	-16.56

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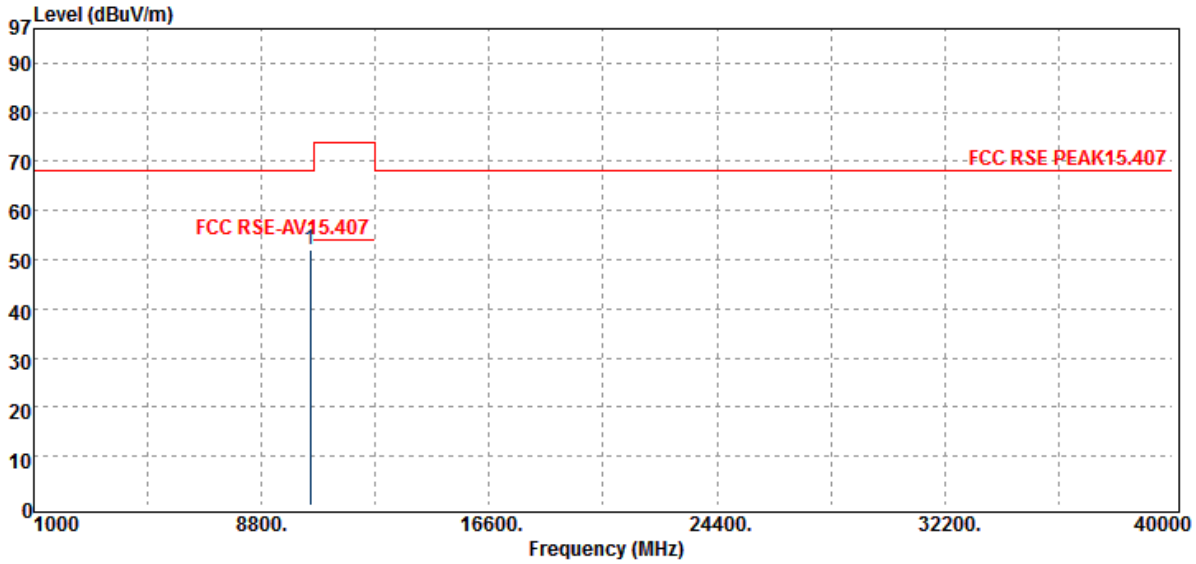
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	H	Peak	33.41	18.55	51.96	68.30	-16.34

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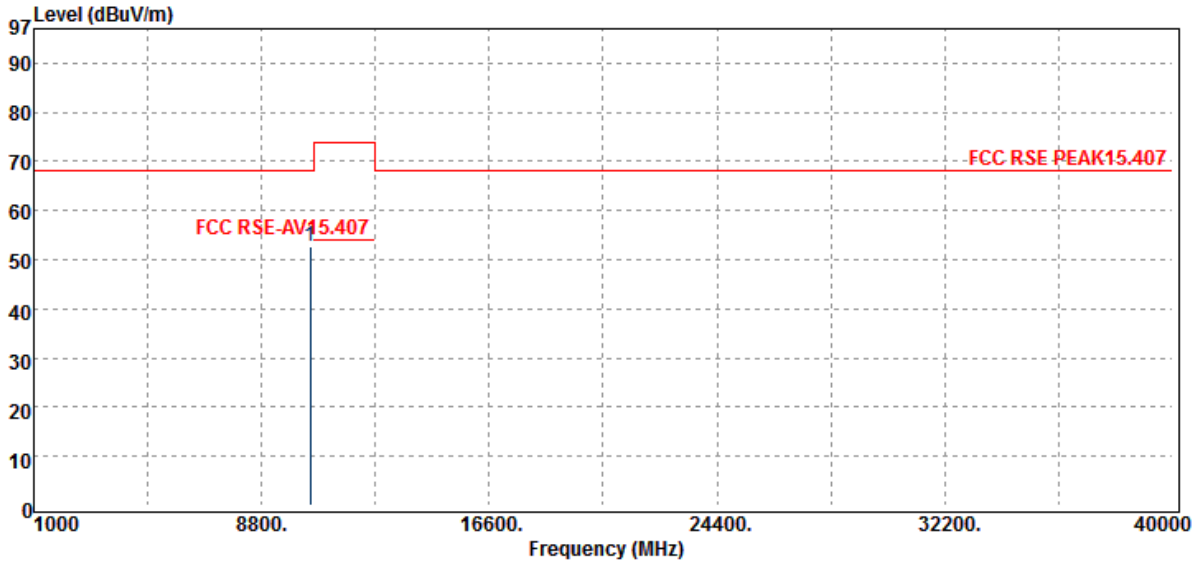
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10460.00	H	Peak	34.02	18.55	52.57	68.30	-15.73

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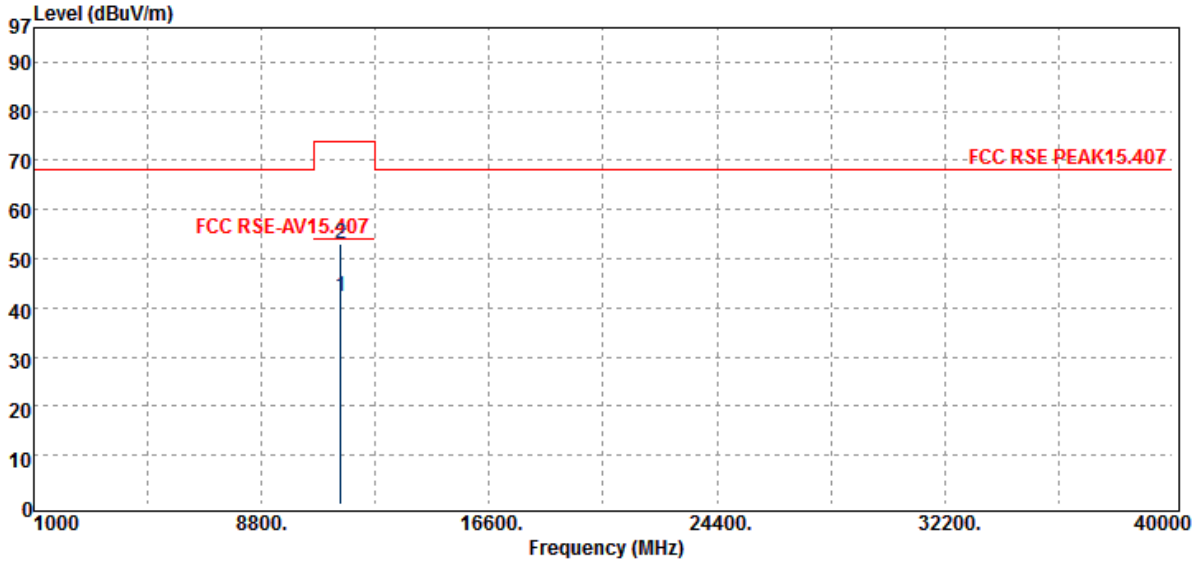
Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11510.00	H	Average	21.98	20.38	42.36	54.00	-11.64
11510.00	H	Peak	32.59	20.38	52.97	74.00	-21.03

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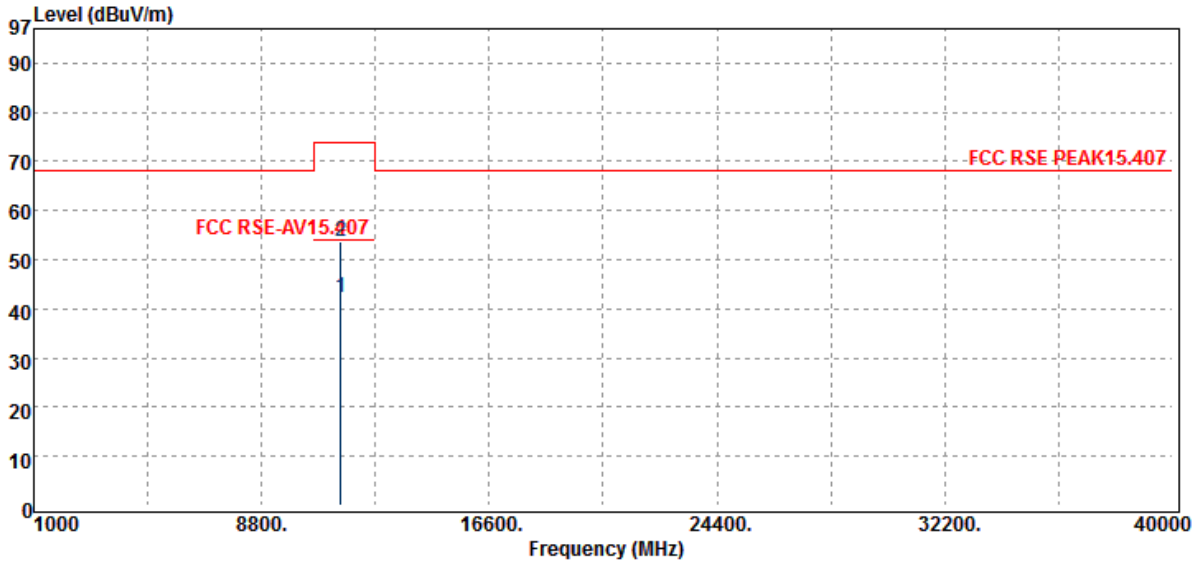
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
11510.00	H	Average	22.07	20.38	42.45	54.00	-11.55
11510.00	H	Peak	33.25	20.38	53.63	74.00	-20.37

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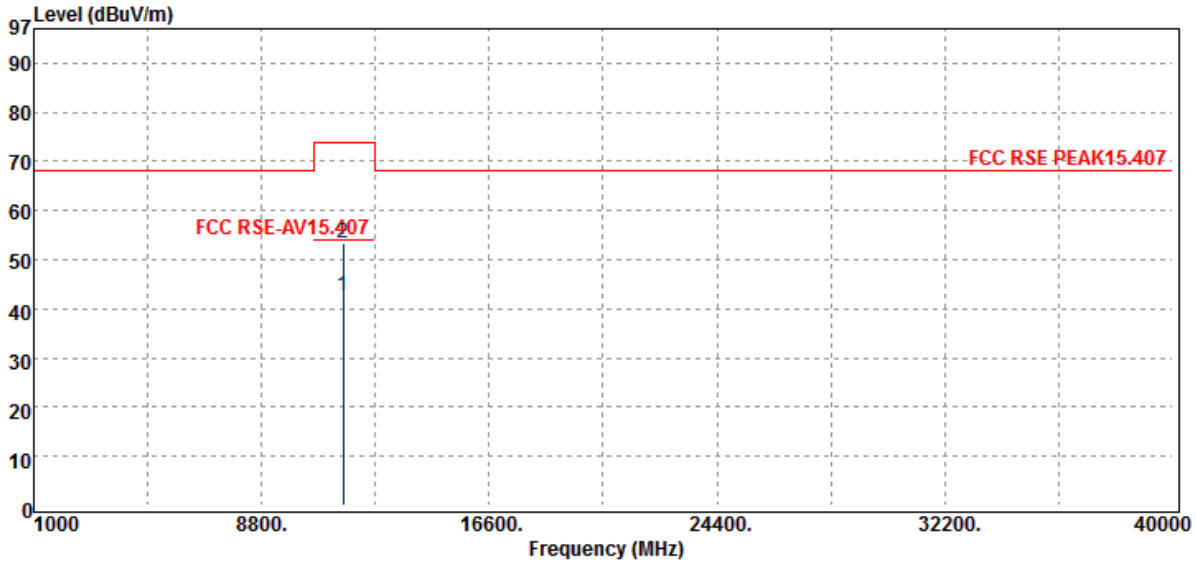
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.09	20.43	42.52	54.00	-11.48
11590.00	H	Peak	32.94	20.43	53.37	74.00	-20.63

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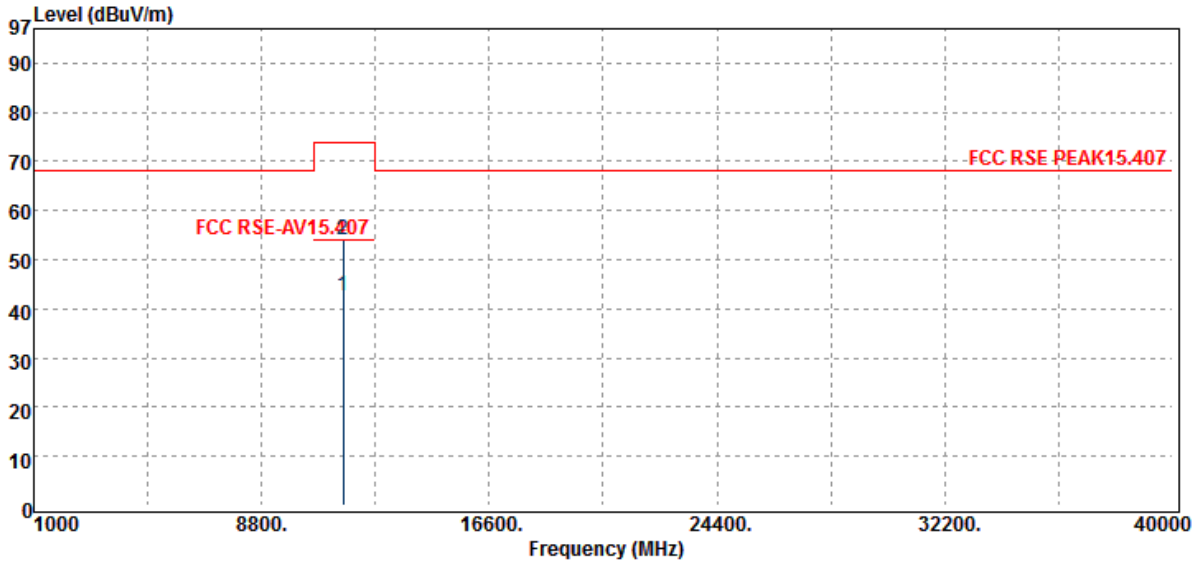
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
11590.00	H	Average	22.07	20.43	42.50	54.00	-11.50
11590.00	H	Peak	33.61	20.43	54.04	74.00	-19.96

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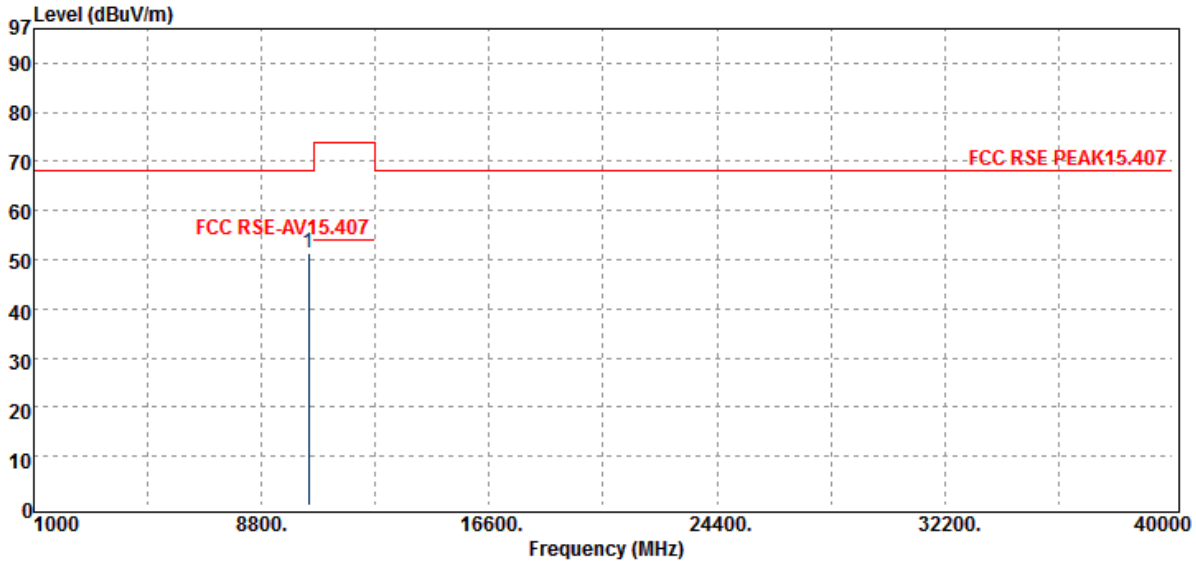
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5150~5250 MHz

Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
10420.00	H	Peak	32.66	18.71	51.37	68.30	-16.93

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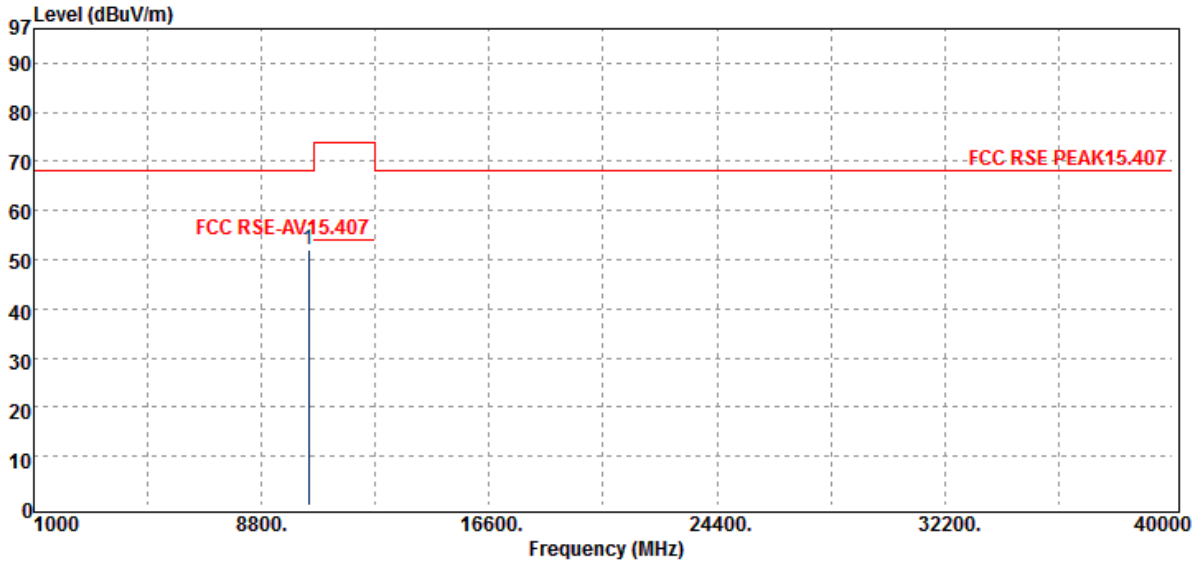
Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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	Safe Margin dB
10420.00	H	Peak	33.47	18.71	52.18	68.30	-16.12

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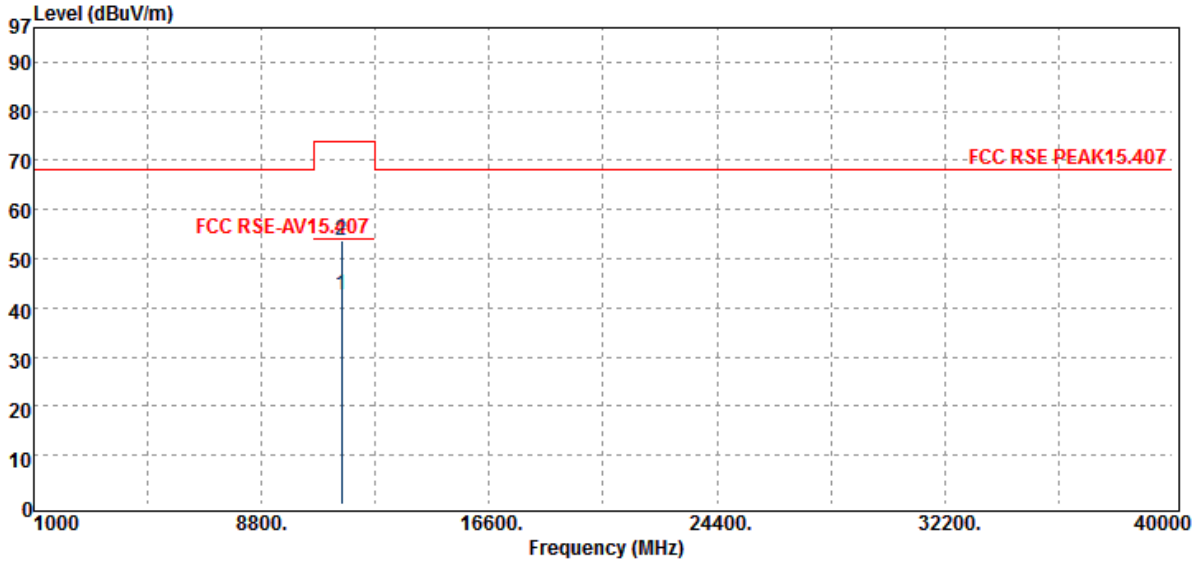
Radiated Spurious Emission Measurement Result 802.11ac VHT80, 5725~5850 MHz

Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11550.00	H	Average	22.05	20.51	42.56	54.00	-11.44
11550.00	H	Peak	33.07	20.51	53.58	74.00	-20.42

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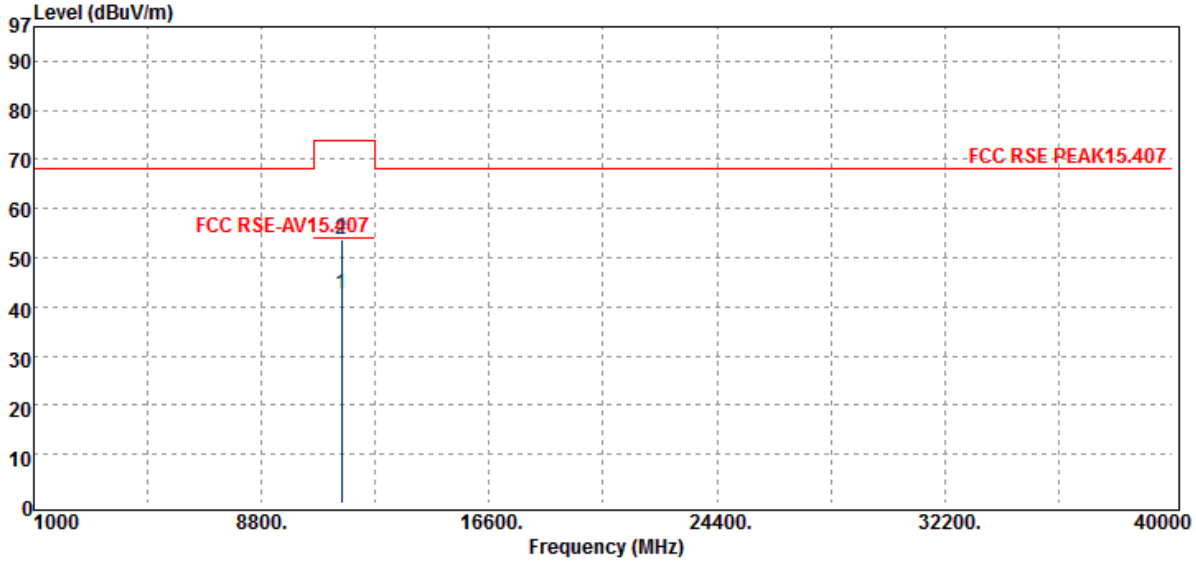
No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
Member of SGS Group

Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:23 deg_C / 62 RH
Operation Mode	:Tx CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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	Safe Margin dB
11550.00	H	Average	22.07	20.51	42.58	54.00	-11.42
11550.00	H	Peak	33.10	20.51	53.61	74.00	-20.39

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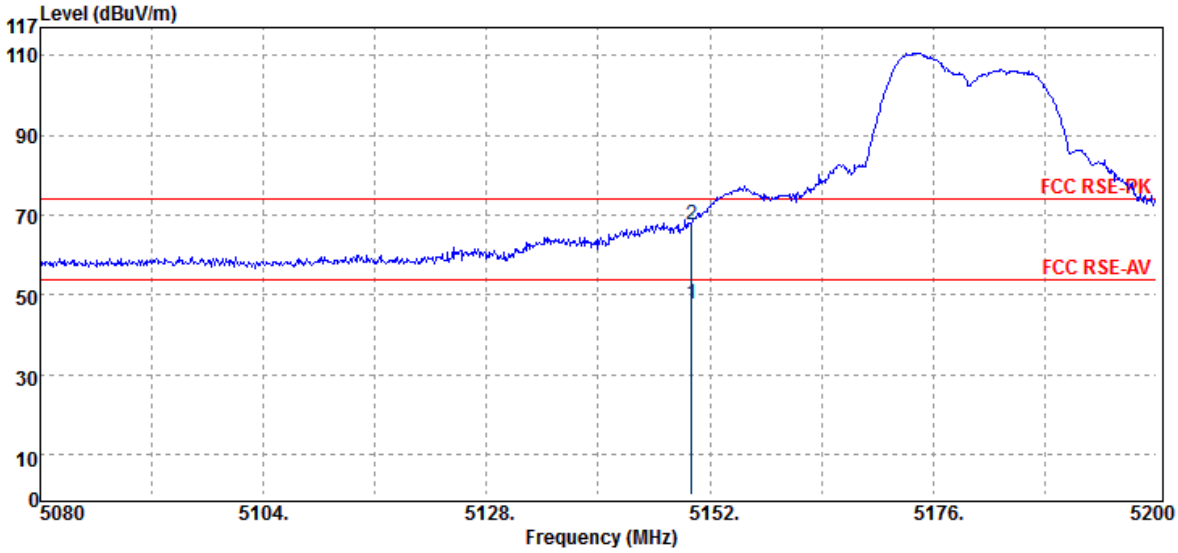
Band edge falling to restricted band

802.11a mode

Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	42.03	5.88	47.91	54.00	-6.09
5150.00	E	Peak	61.71	5.88	67.59	74.00	-6.41

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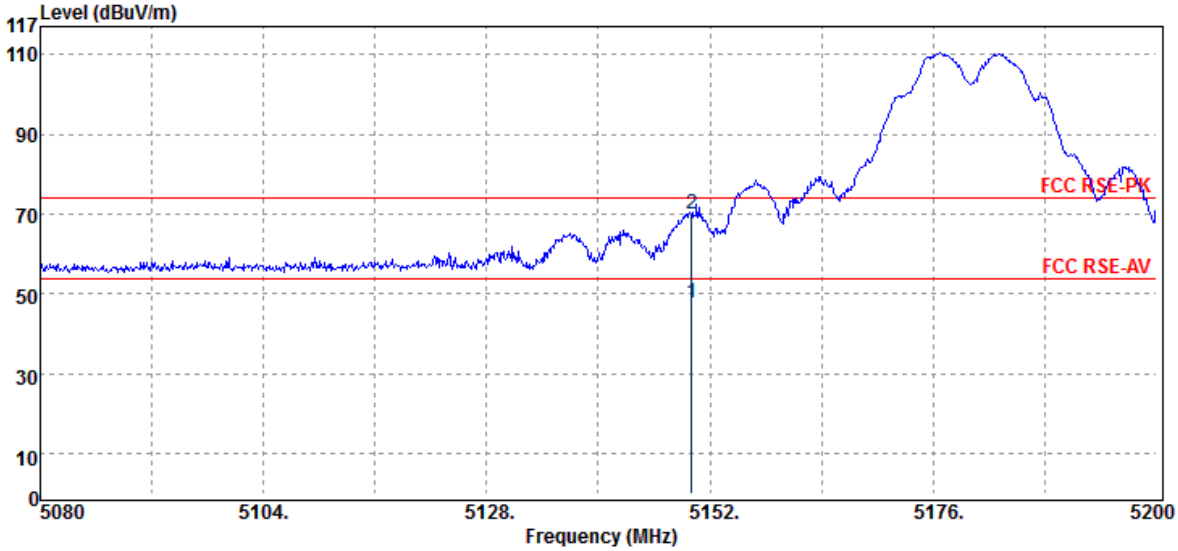
Operation Band	:802.11aB1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	41.78	5.88	47.66	54.00	-6.34
5150.00	E	Peak	64.11	5.88	69.99	74.00	-4.01

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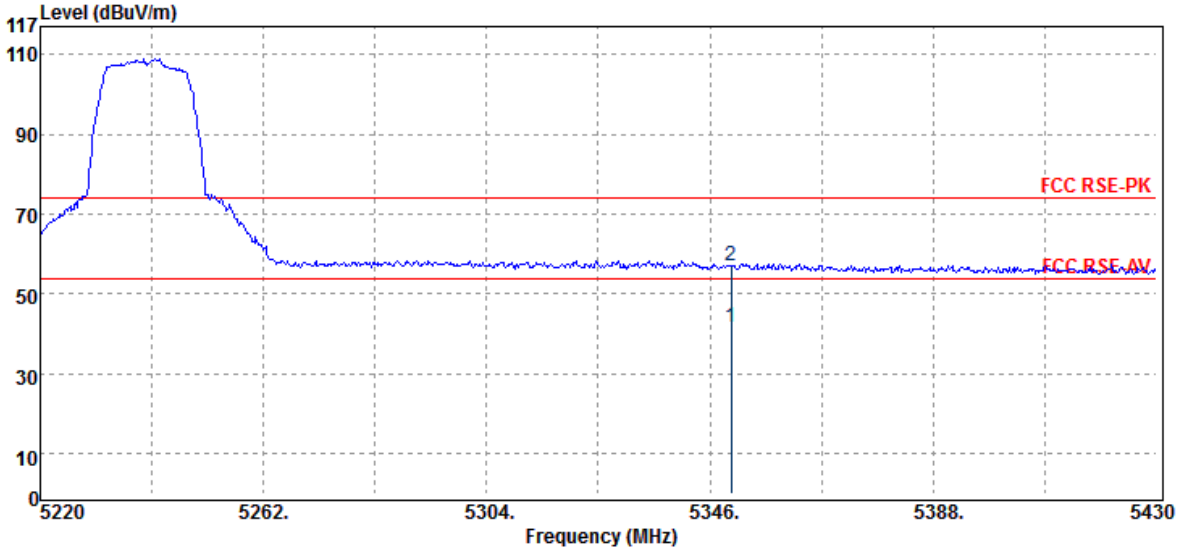
Operation Band	:802.11aB1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	35.62	6.16	41.78	54.00	-12.22
5350.00	E	Peak	50.79	6.16	56.95	74.00	-17.05

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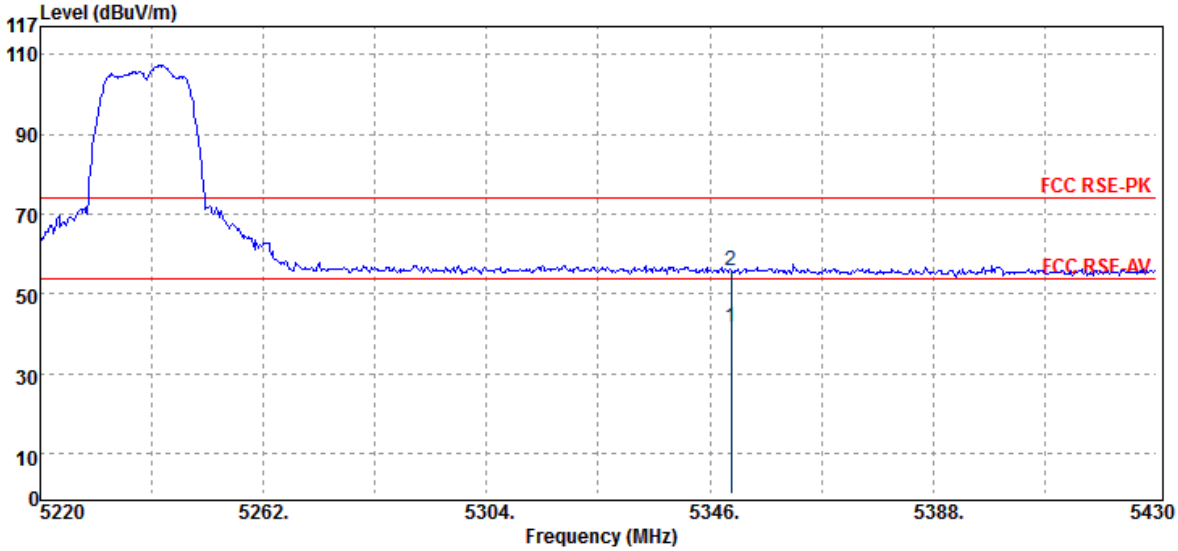
Operation Band	:802.11aB1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	35.47	6.16	41.63	54.00	-12.37
5350.00	E	Peak	49.91	6.16	56.07	74.00	-17.93

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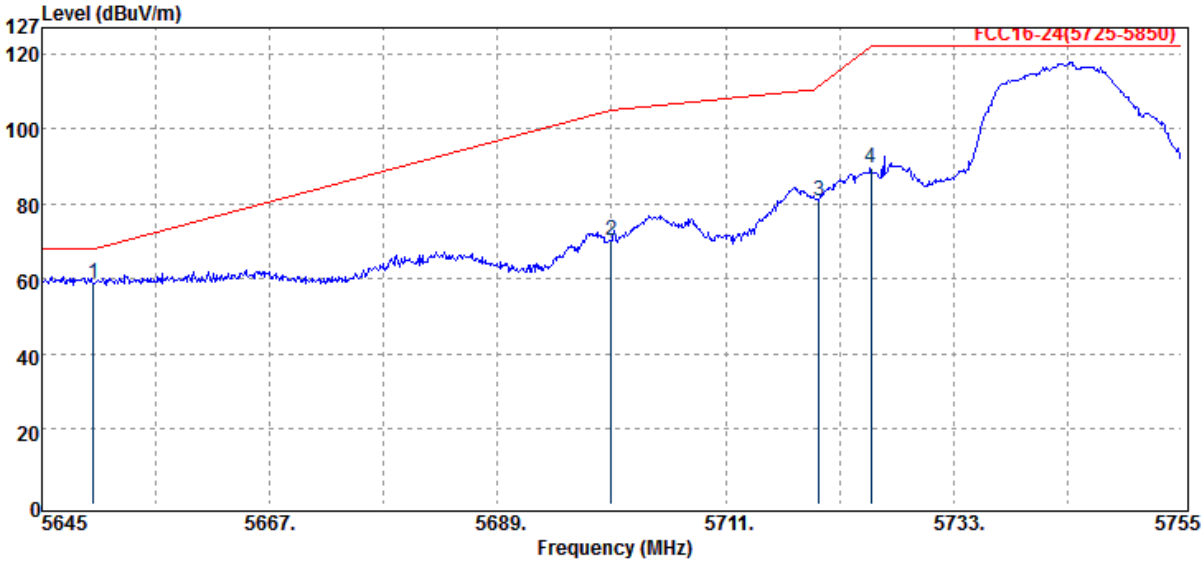
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	52.38	6.48	58.86	68.23	-9.37
5700.00	E	Peak	63.51	6.67	70.18	105.23	-35.05
5720.00	E	Peak	74.28	6.60	80.88	110.83	-29.95
5725.00	E	Peak	83.15	6.59	89.74	122.23	-32.49

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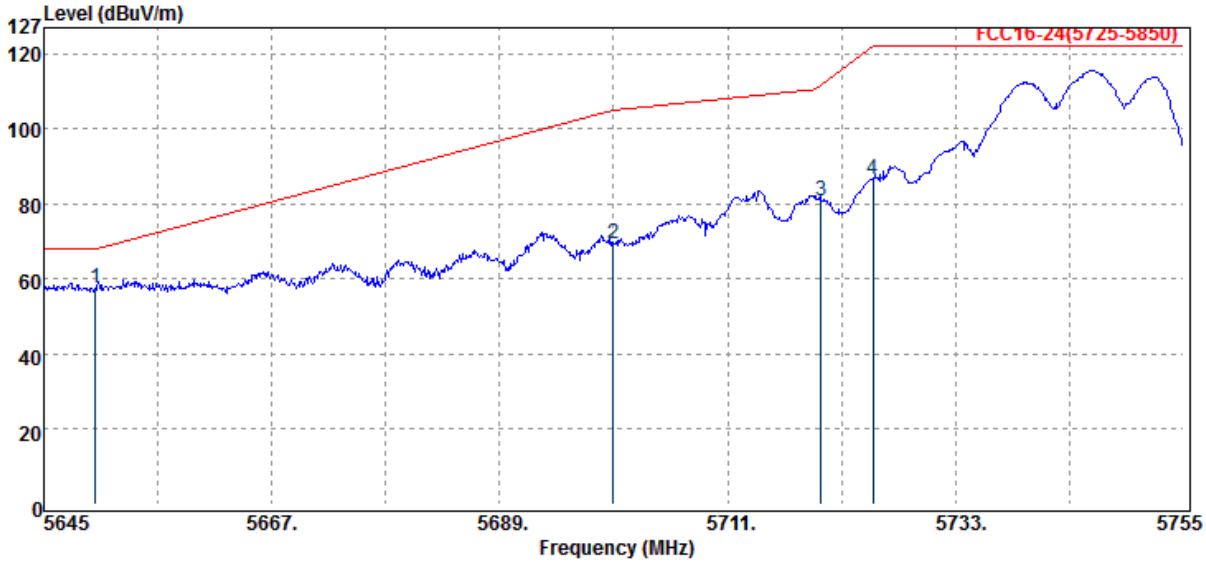
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	50.96	6.48	57.44	68.23	-10.79
5700.00	E	Peak	62.86	6.67	69.53	105.23	-35.70
5720.00	E	Peak	74.16	6.60	80.76	110.83	-30.07
5725.00	E	Peak	80.18	6.59	86.77	122.23	-35.46

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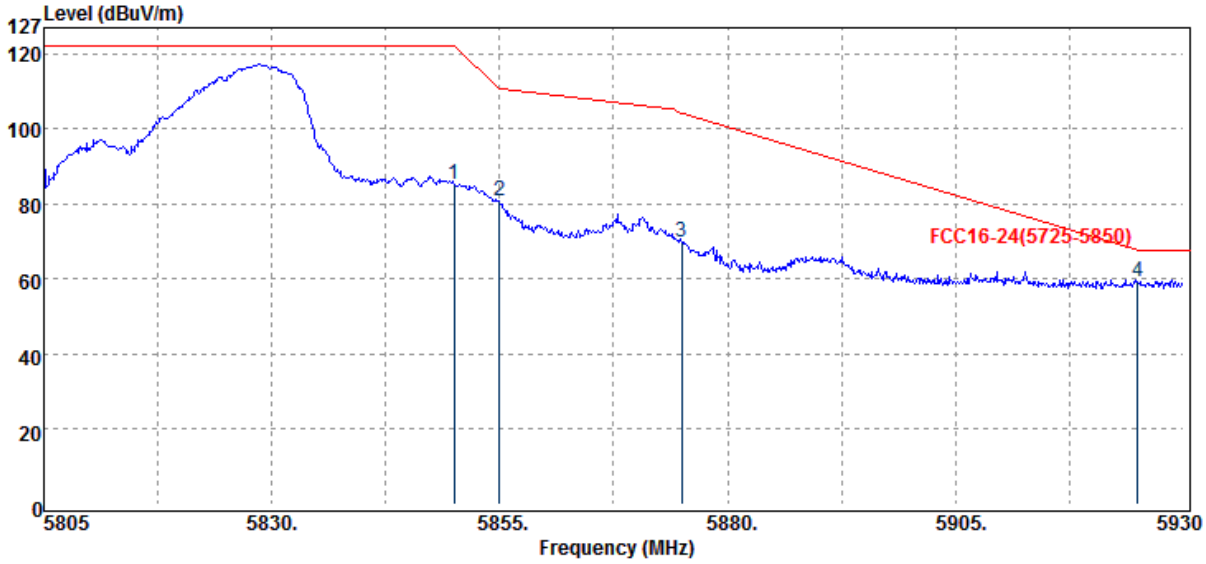
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	77.98	7.28	85.26	122.23	-36.97
5855.00	E	Peak	73.68	7.32	81.00	110.83	-29.83
5875.00	E	Peak	62.41	7.37	69.78	105.23	-35.45
5925.00	E	Peak	51.73	7.39	59.12	68.23	-9.11

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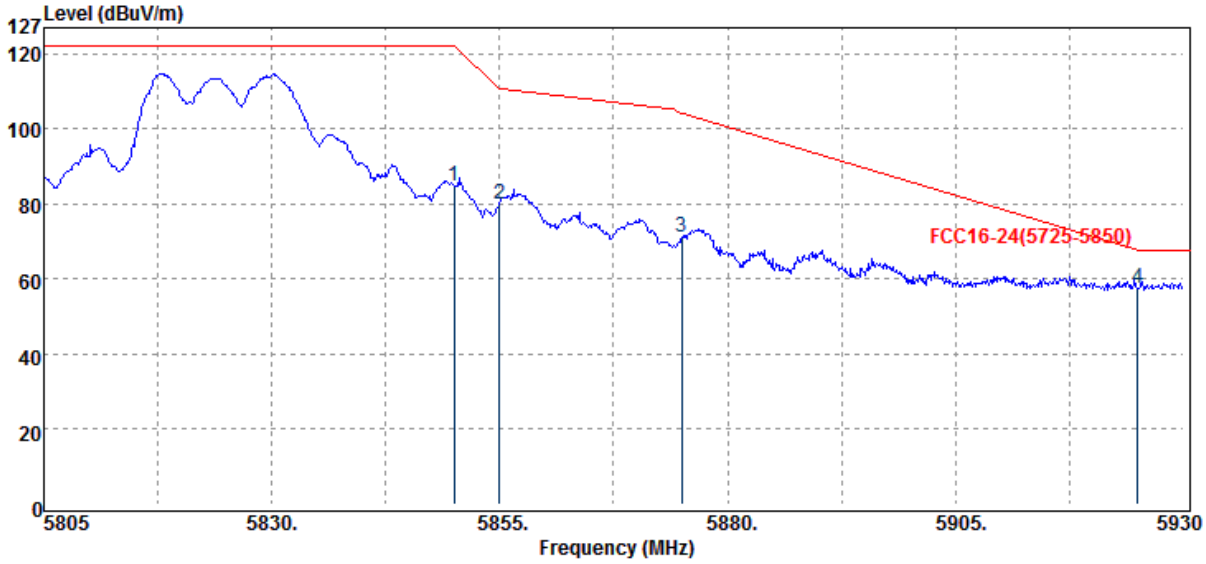
Operation Band	:802.11aB4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	77.70	7.28	84.98	122.23	-37.25
5855.00	E	Peak	72.76	7.32	80.08	110.83	-30.75
5875.00	E	Peak	63.84	7.37	71.21	105.23	-34.02
5925.00	E	Peak	50.06	7.39	57.45	68.23	-10.78

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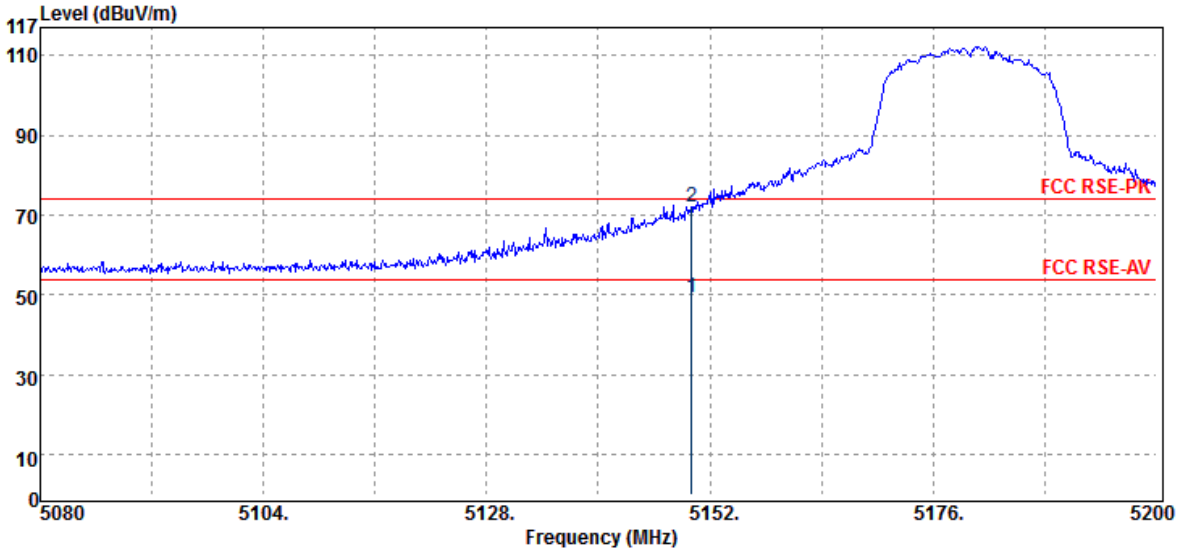
CDD Mode:

802.11nHT20 mode

Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	43.31	5.88	49.19	54.00	-4.81
5150.00	E	Peak	66.17	5.88	72.05	74.00	-1.95

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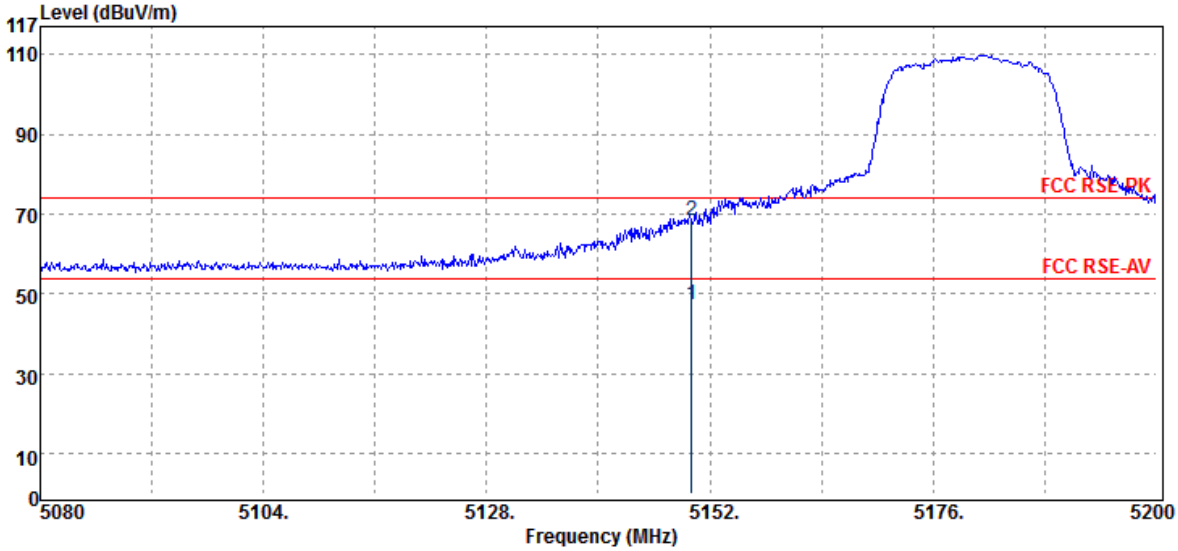
Operation Band	:802.11n20B1	Test Date	:2017-03-16
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	41.33	5.88	47.21	54.00	-6.79
5150.00	E	Peak	62.55	5.88	68.43	74.00	-5.57

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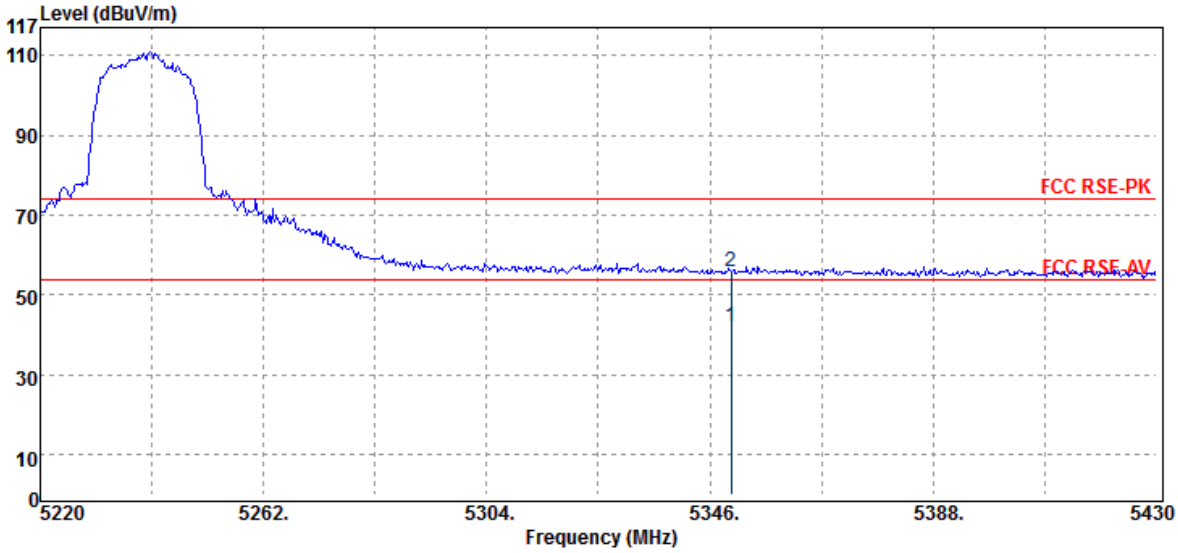
Operation Band	:802.11n20B1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	35.90	6.16	42.06	54.00	-11.94
5350.00	E	Peak	49.88	6.16	56.04	74.00	-17.96

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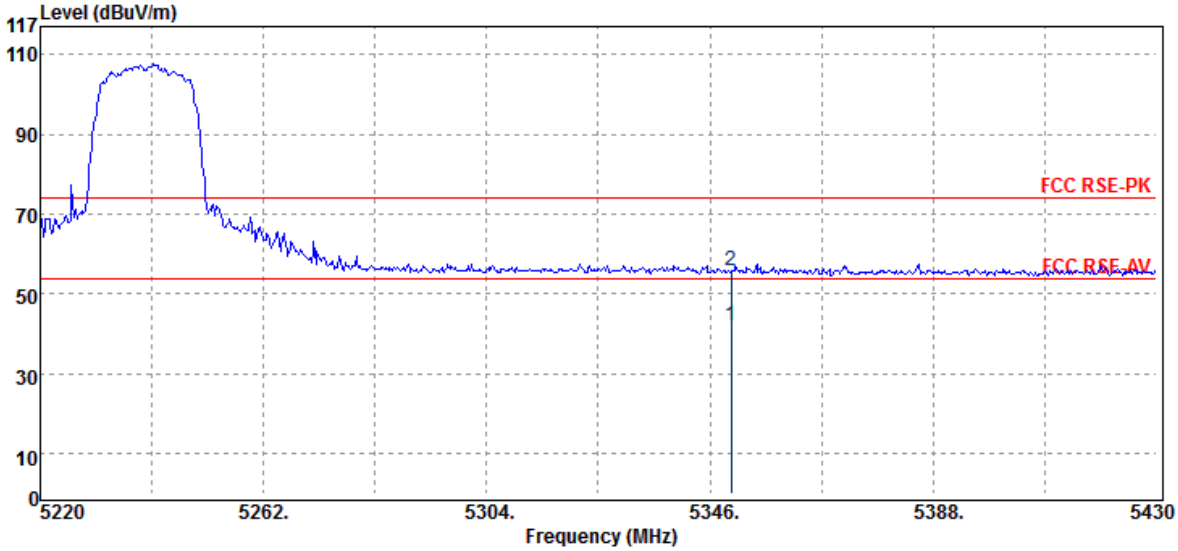
Operation Band	:802.11n20B1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	35.83	6.16	41.99	54.00	-12.01
5350.00	E	Peak	49.55	6.16	55.71	74.00	-18.29

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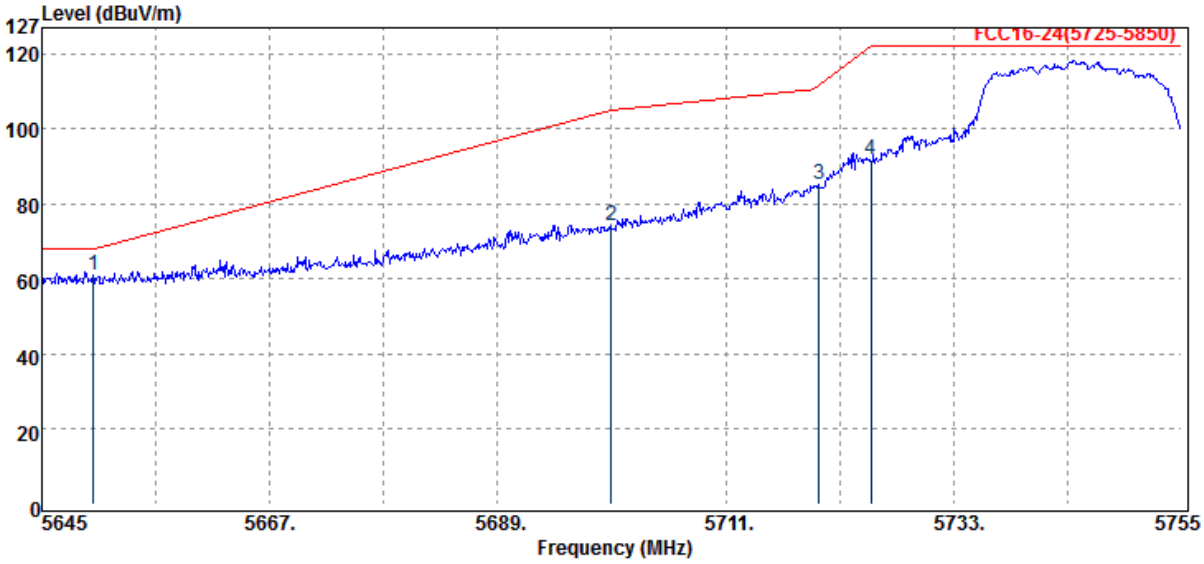
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	54.51	6.48	60.99	68.23	-7.24
5700.00	E	Peak	67.57	6.67	74.24	105.23	-30.99
5720.00	E	Peak	78.55	6.60	85.15	110.83	-25.68
5725.00	E	Peak	85.21	6.59	91.80	122.23	-30.43

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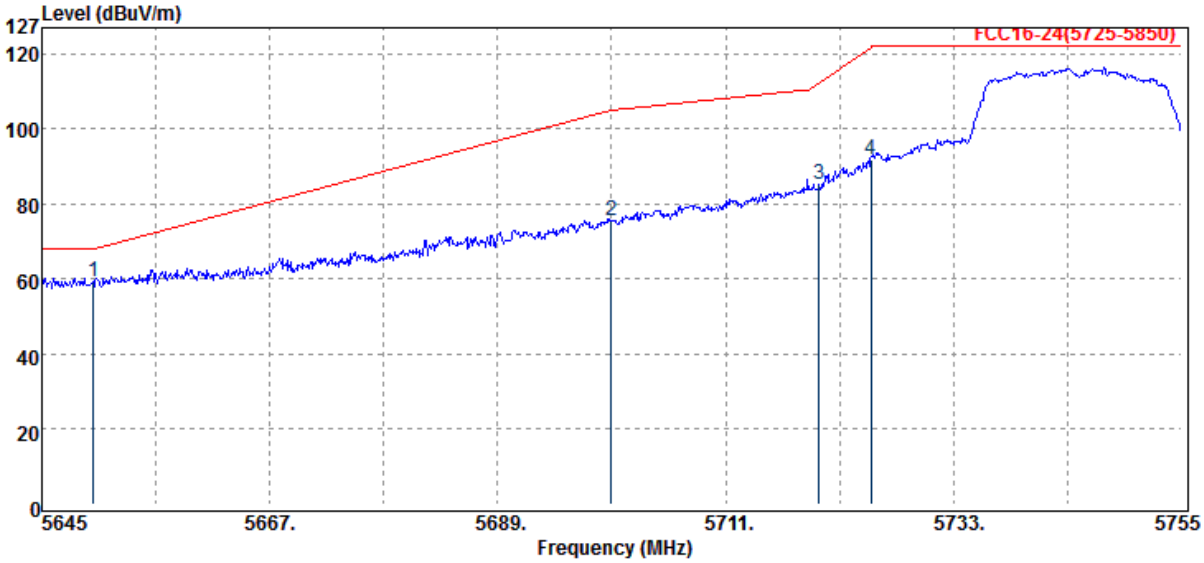
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	52.87	6.48	59.35	68.23	-8.88
5700.00	E	Peak	68.96	6.67	75.63	105.23	-29.60
5720.00	E	Peak	78.80	6.60	85.40	110.83	-25.43
5725.00	E	Peak	85.41	6.59	92.00	122.23	-30.23

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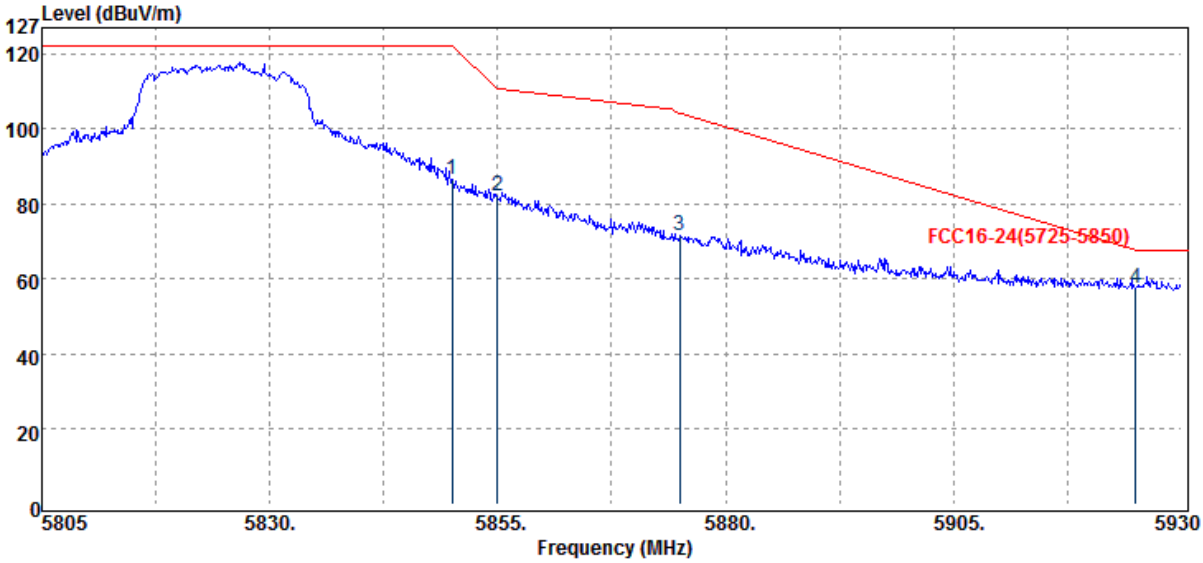
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	79.14	7.28	86.42	122.23	-35.81
5855.00	E	Peak	74.87	7.32	82.19	110.83	-28.64
5875.00	E	Peak	64.29	7.37	71.66	105.23	-33.57
5925.00	E	Peak	50.34	7.39	57.73	68.23	-10.50

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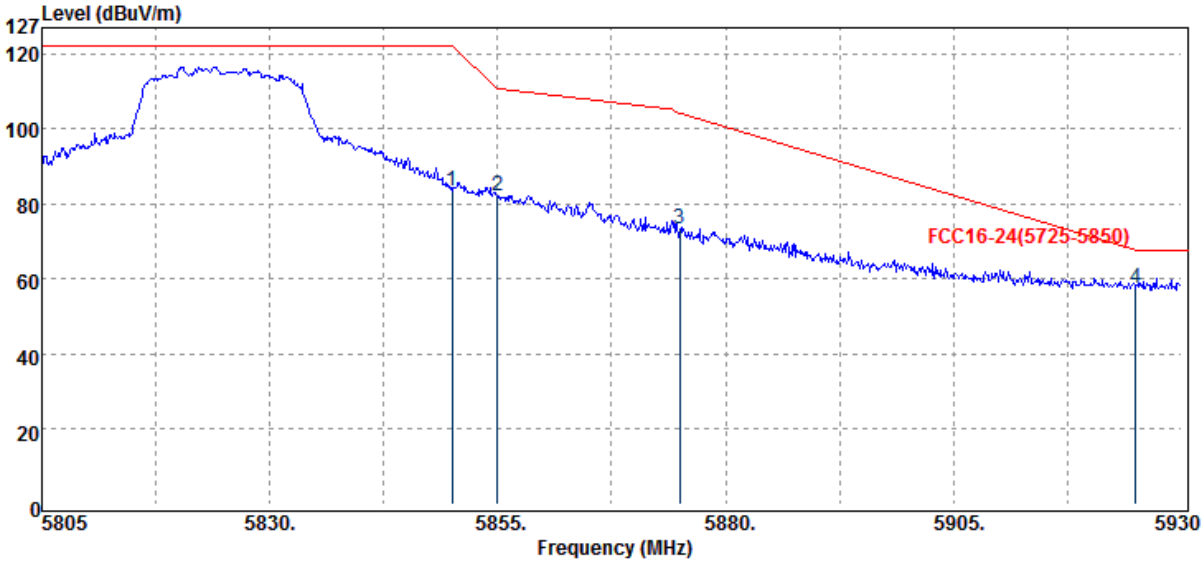
Operation Band	:802.11n20B4	Test Date	:2017-03-16
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	76.40	7.28	83.68	122.23	-38.55
5855.00	E	Peak	74.67	7.32	81.99	110.83	-28.84
5875.00	E	Peak	65.88	7.37	73.25	105.23	-31.98
5925.00	E	Peak	50.13	7.39	57.52	68.23	-10.71

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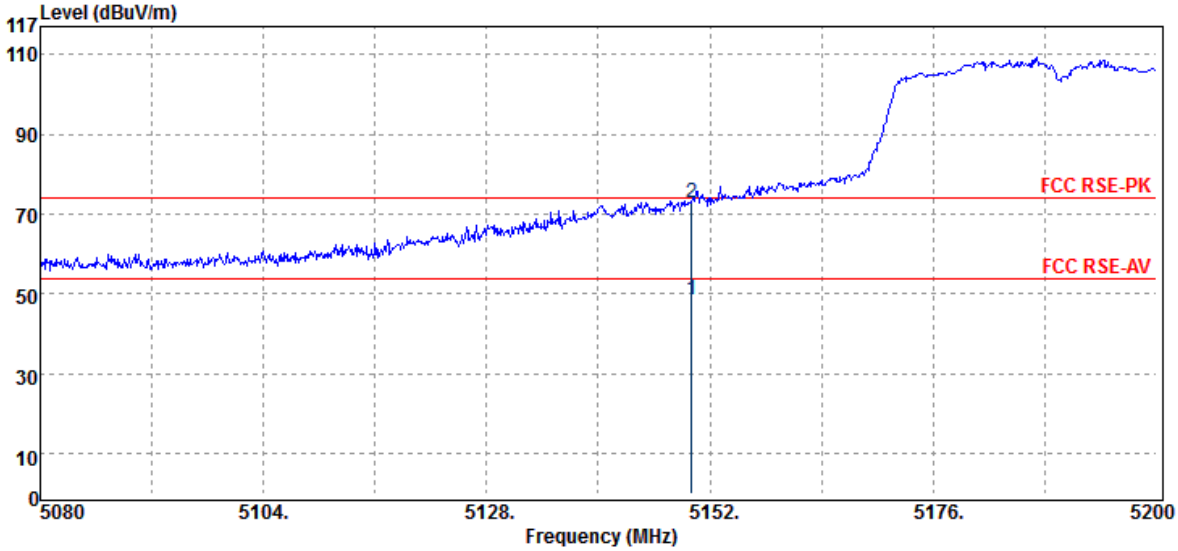
802.11n40 HT mode

Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	42.69	5.88	48.57	54.00	-5.43
5150.00	E	Peak	66.82	5.88	72.70	74.00	-1.30

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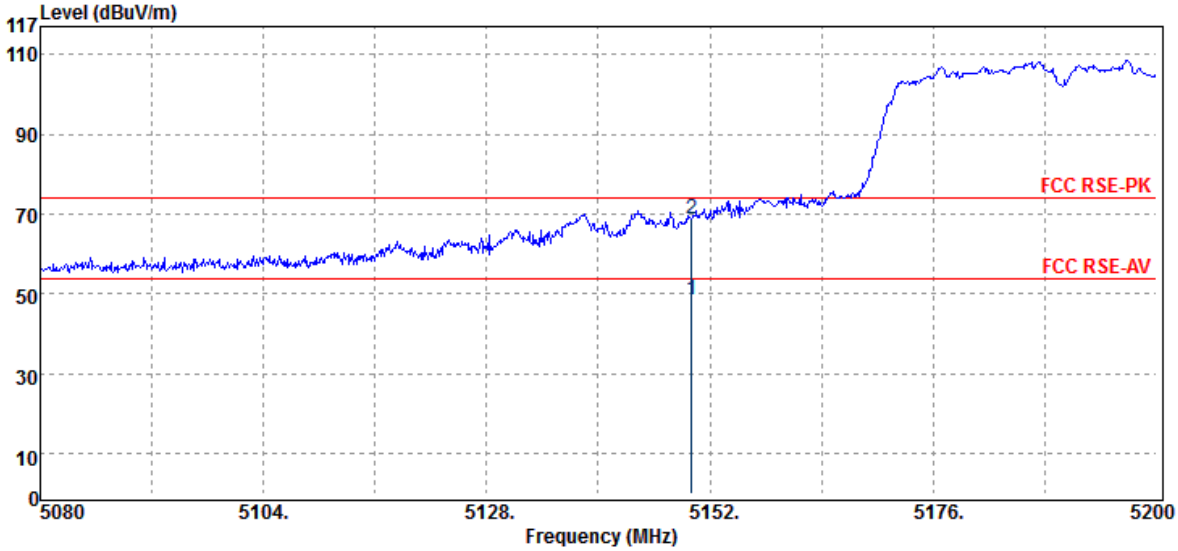
Operation Band	:802.11n40B1	Test Date	:2017-03-16
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	42.58	5.88	48.46	54.00	-5.54
5150.00	E	Peak	62.83	5.88	68.71	74.00	-5.29

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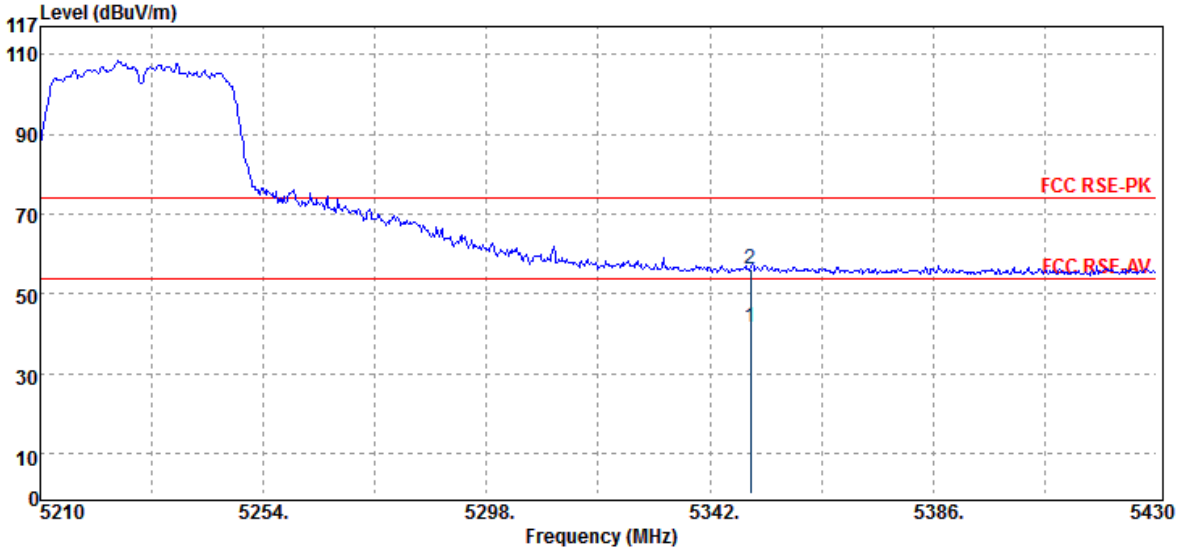
Operation Band	:802.11n40B1	Test Date	:2017-03-21
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	35.73	6.16	41.89	54.00	-12.11
5350.00	E	Peak	50.10	6.16	56.26	74.00	-17.74

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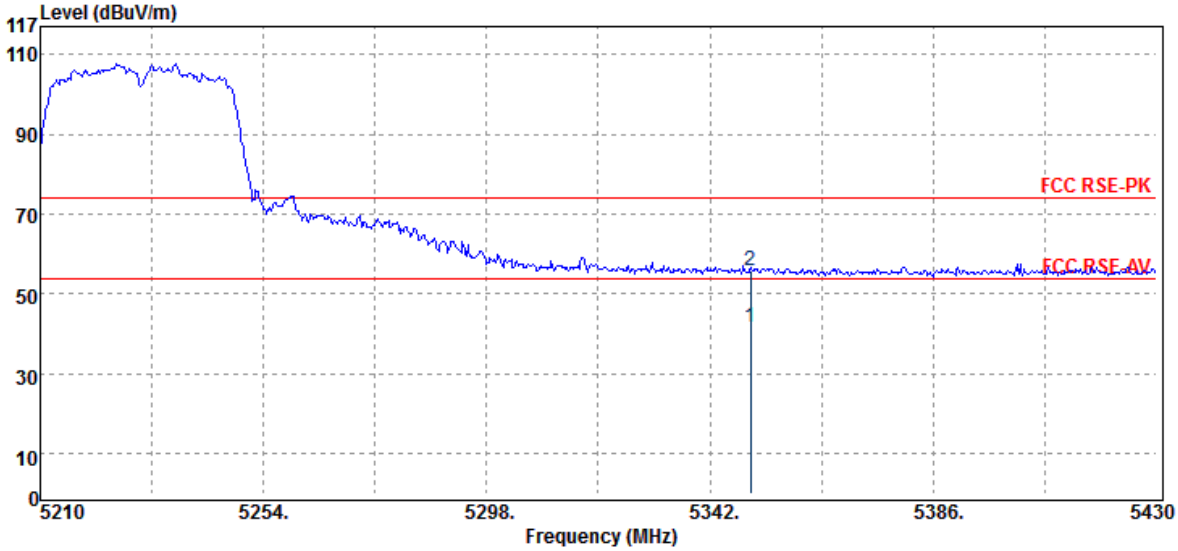
Operation Band	:802.11n40B1	Test Date	:2017-03-21
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	35.67	6.16	41.83	54.00	-12.17
5350.00	E	Peak	49.88	6.16	56.04	74.00	-17.96

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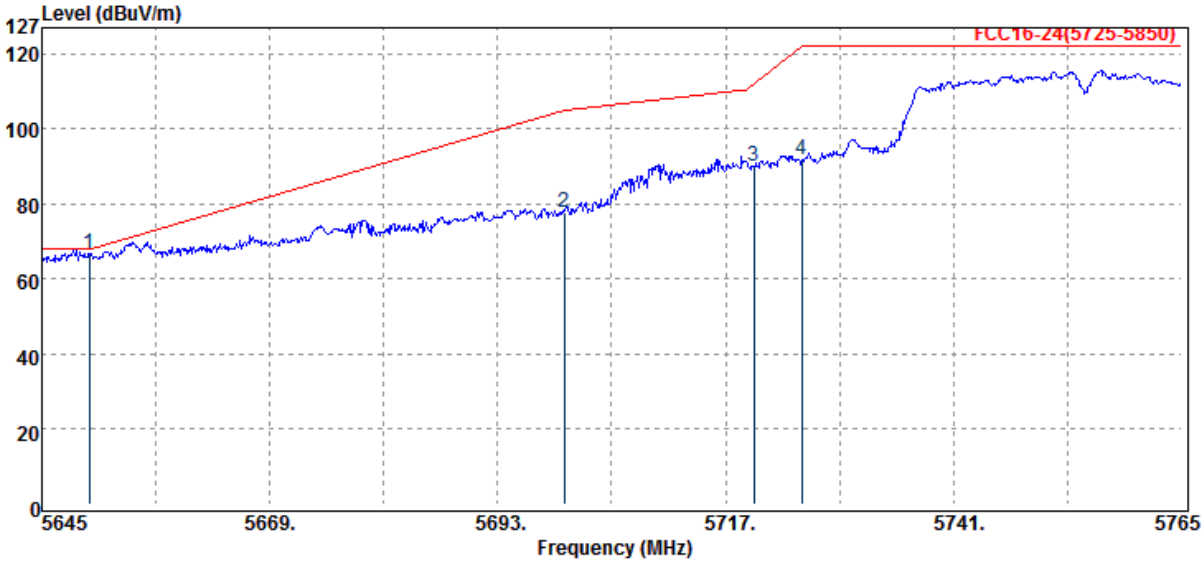
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	60.36	6.48	66.84	68.23	-1.39
5700.00	E	Peak	70.91	6.67	77.58	105.23	-27.65
5720.00	E	Peak	83.43	6.60	90.03	110.83	-20.80
5725.00	E	Peak	85.44	6.59	92.03	122.23	-30.20

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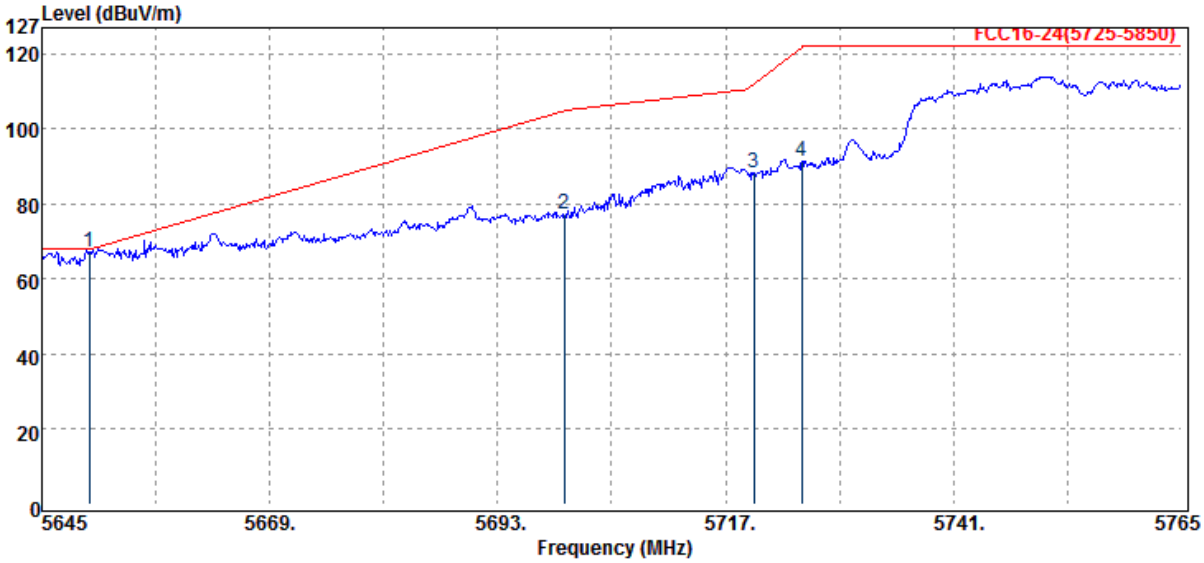
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5755 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	60.66	6.48	67.14	68.23	-1.09
5700.00	E	Peak	70.54	6.67	77.21	105.23	-28.02
5720.00	E	Peak	81.57	6.60	88.17	110.83	-22.66
5725.00	E	Peak	84.74	6.59	91.33	122.23	-30.90

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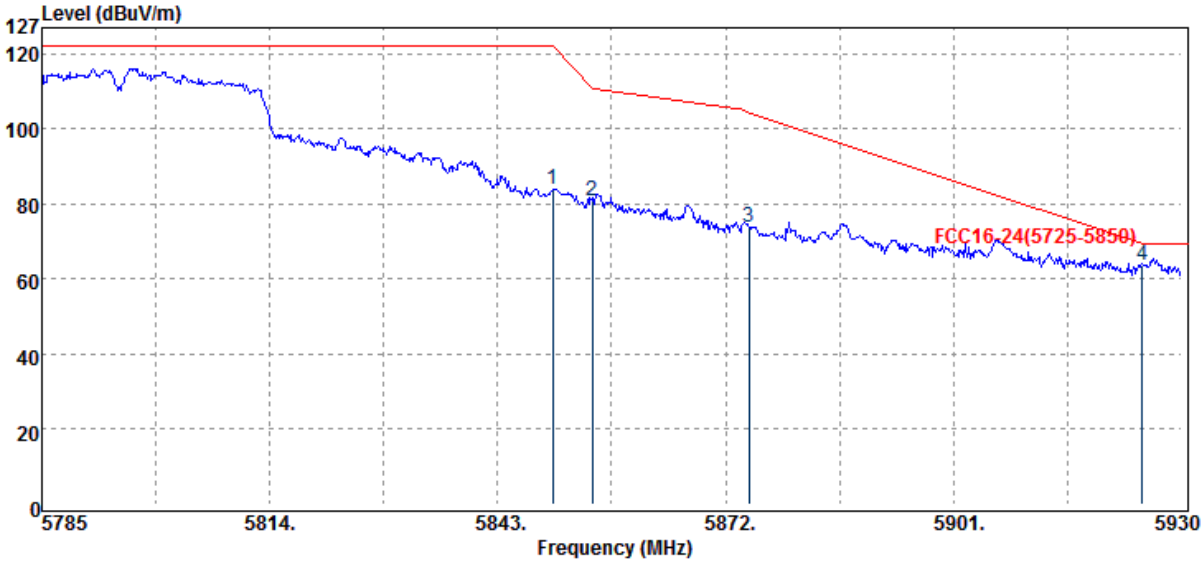
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	76.47	7.28	83.75	122.23	-38.48
5855.00	E	Peak	73.60	7.32	80.92	110.83	-29.91
5875.00	E	Peak	66.28	7.37	73.65	105.23	-31.58
5925.00	E	Peak	56.50	7.39	63.89	68.23	-4.34

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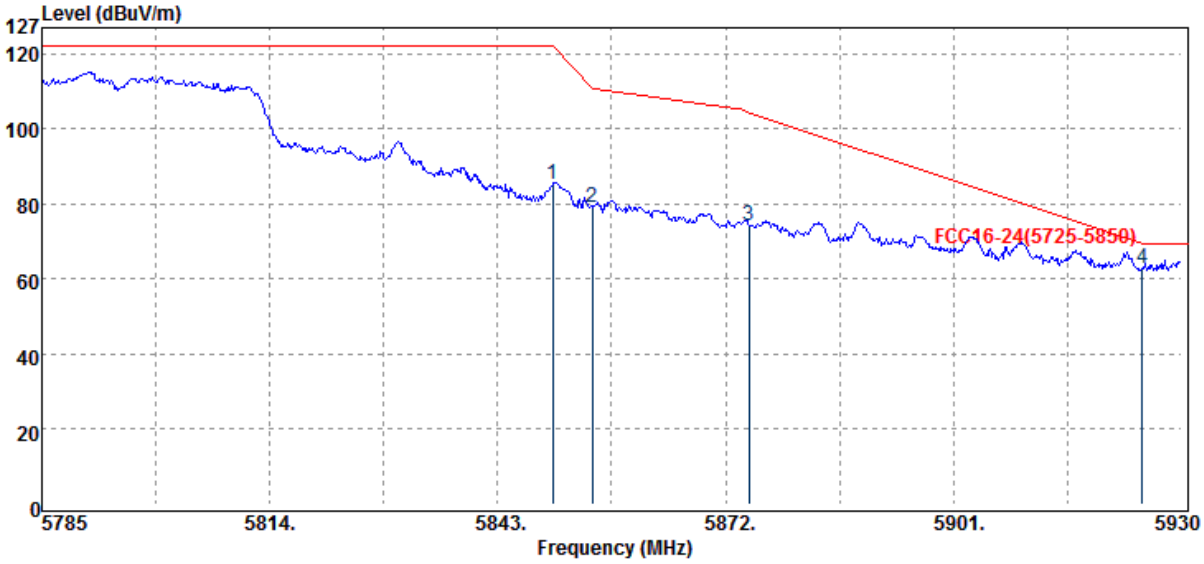
Operation Band	:802.11n40B4	Test Date	:2017-03-16
Fundamental Frequency	:5795 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	78.03	7.28	85.31	122.23	-36.92
5855.00	E	Peak	71.70	7.32	79.02	110.83	-31.81
5875.00	E	Peak	66.77	7.37	74.14	105.23	-31.09
5925.00	E	Peak	55.29	7.39	62.68	68.23	-5.55

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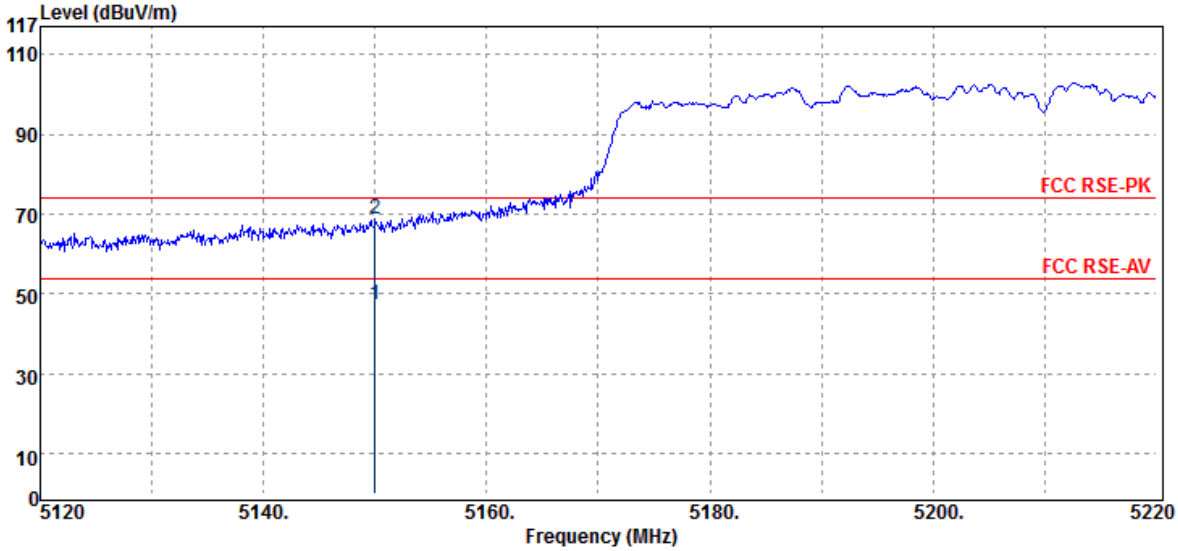
802.11ac80 VHT mode

Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	41.43	5.88	47.31	54.00	-6.69
5150.00	E	Peak	63.15	5.88	69.03	74.00	-4.97

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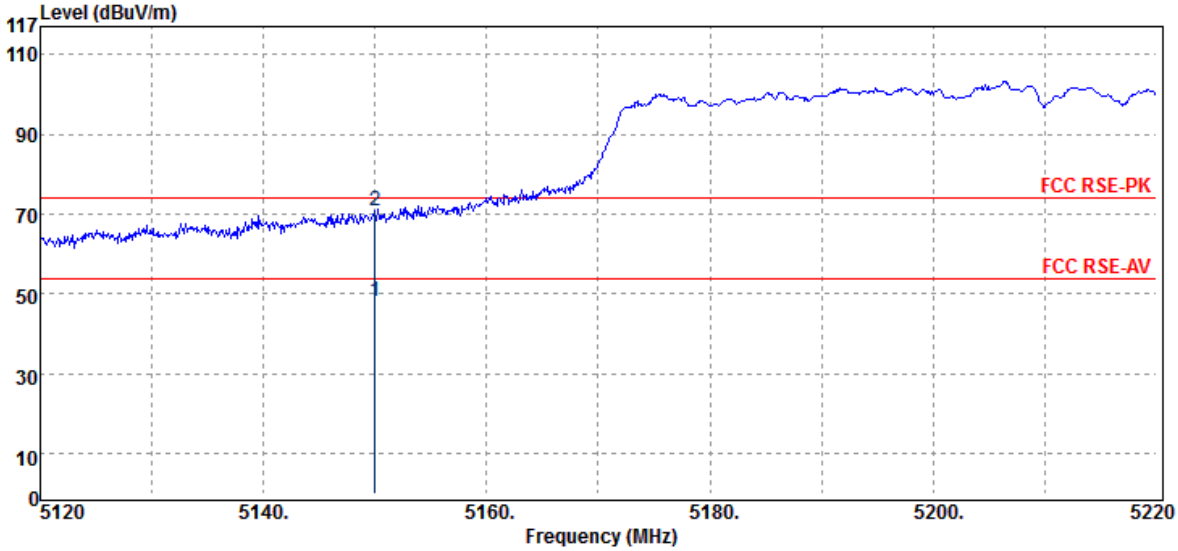
Operation Band	:802.11ac80B1	Test Date	:2017-03-16
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	42.31	5.88	48.19	54.00	-5.81
5150.00	E	Peak	65.16	5.88	71.04	74.00	-2.96

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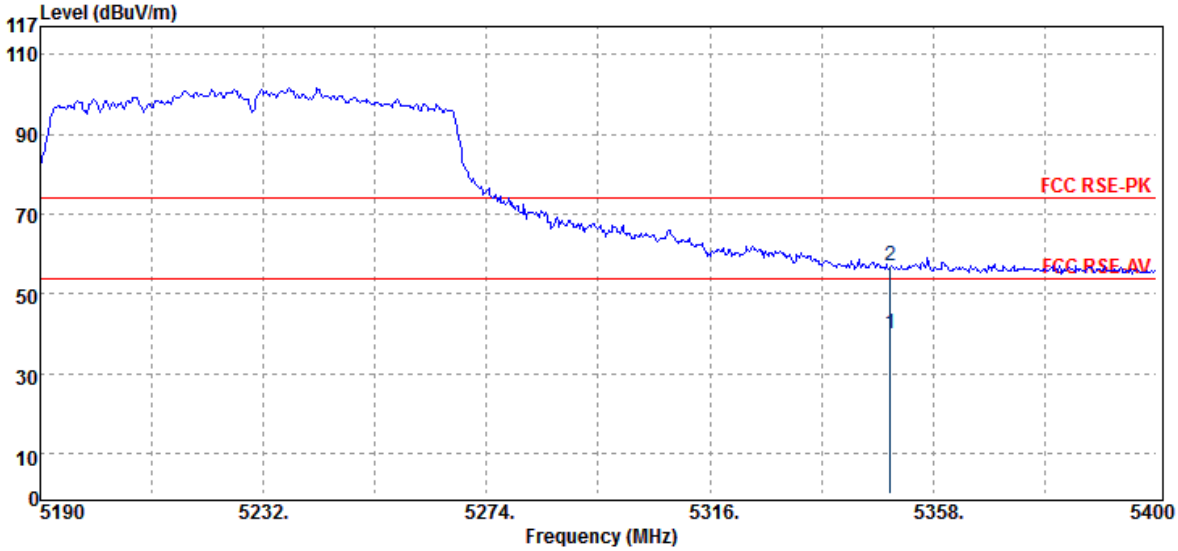
Operation Band	:802.11ac80B1	Test Date	:2017-03-21
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	33.83	6.16	39.99	54.00	-14.01
5350.00	E	Peak	50.79	6.16	56.95	74.00	-17.05

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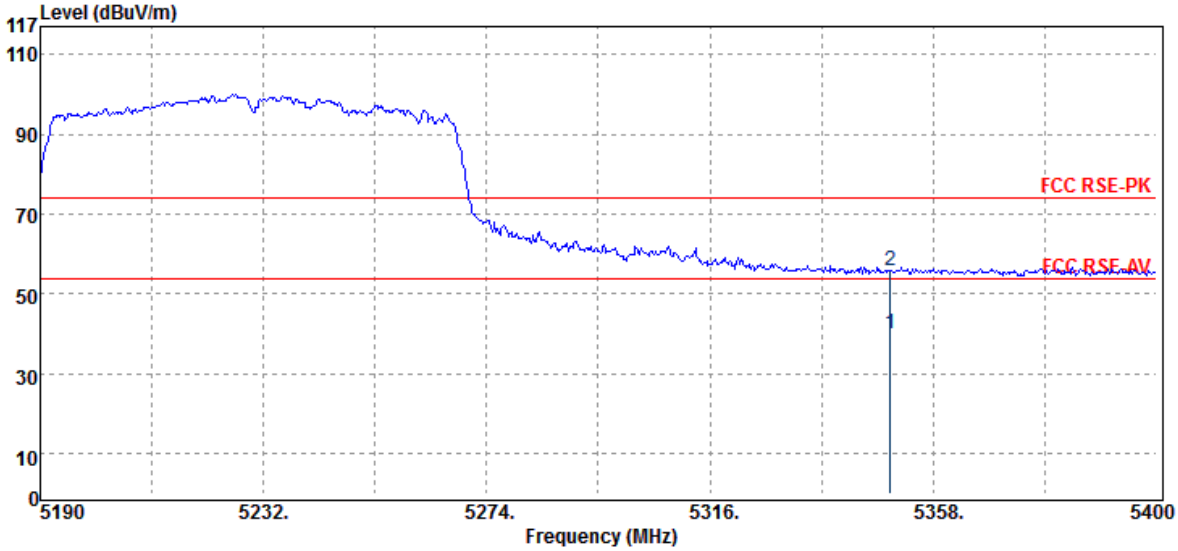
Operation Band	:802.11ac80B1	Test Date	:2017-03-21
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	33.77	6.16	39.93	54.00	-14.07
5350.00	E	Peak	49.57	6.16	55.73	74.00	-18.27

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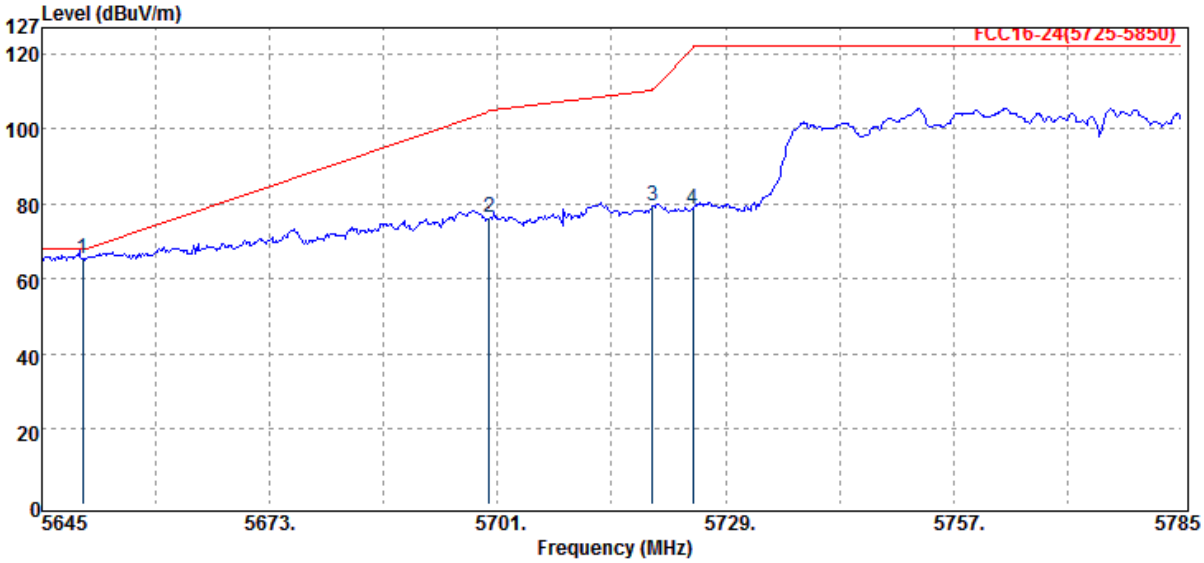
Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	58.91	6.48	65.39	68.23	-2.84
5700.00	E	Peak	69.94	6.67	76.61	105.23	-28.62
5720.00	E	Peak	72.73	6.60	79.33	110.83	-31.50
5725.00	E	Peak	72.16	6.59	78.75	122.23	-43.48

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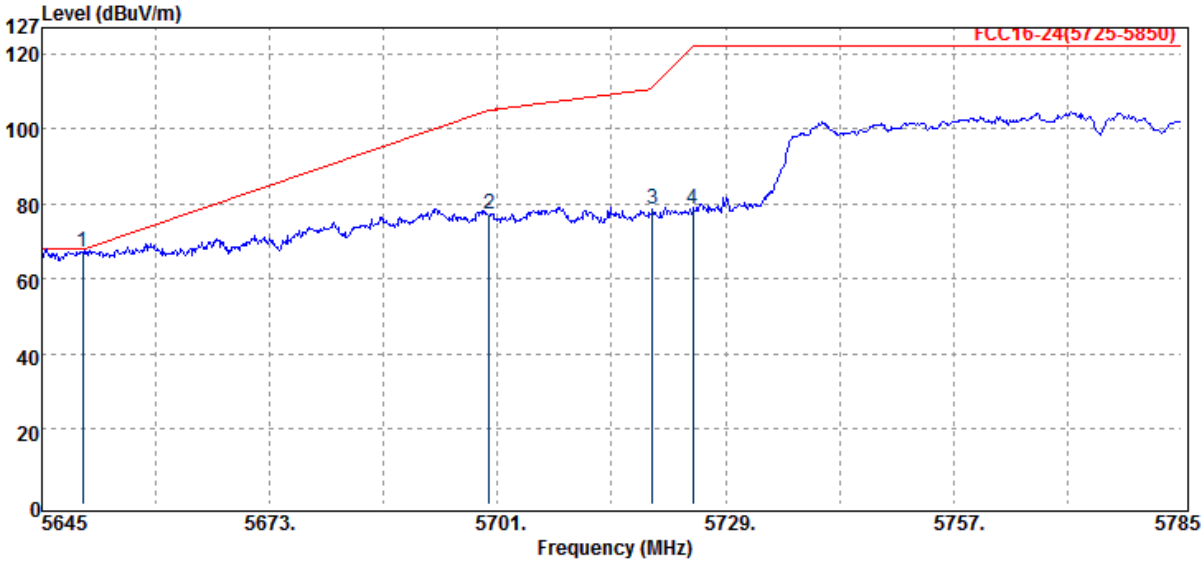
Operation Band	:802.11ac80B4	Test Date	:2017-03-16
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	60.67	6.48	67.15	68.23	-1.08
5700.00	E	Peak	70.52	6.67	77.19	105.23	-28.04
5720.00	E	Peak	72.10	6.60	78.70	110.83	-32.13
5725.00	E	Peak	72.16	6.59	78.75	122.23	-43.48

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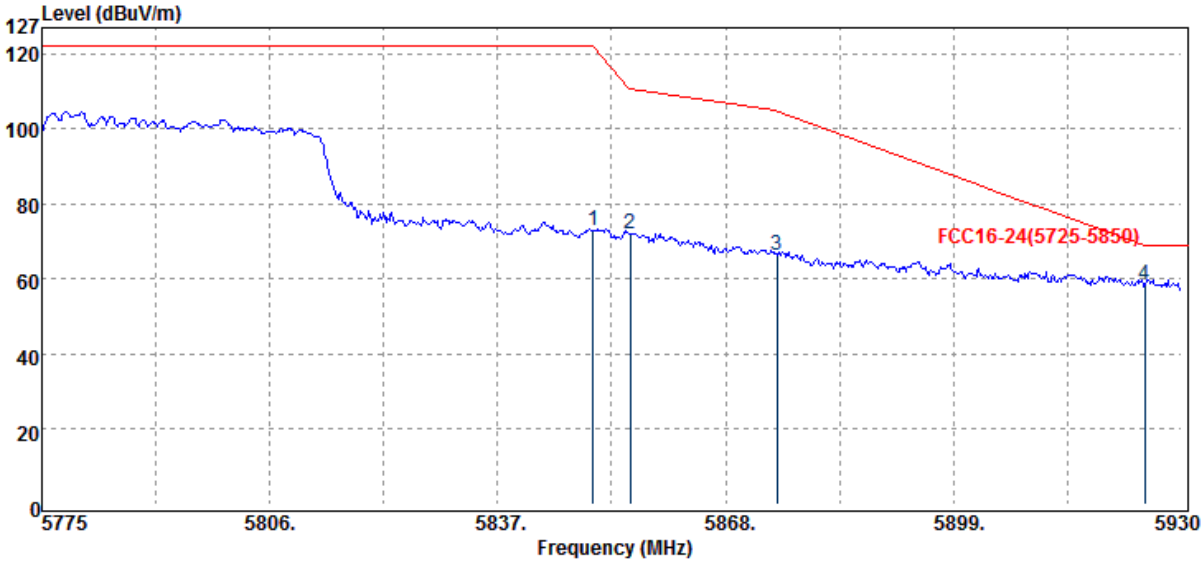
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	65.56	7.28	72.84	122.23	-49.39
5855.00	E	Peak	64.91	7.32	72.23	110.83	-38.60
5875.00	E	Peak	59.06	7.37	66.43	105.23	-38.80
5925.00	E	Peak	51.20	7.39	58.59	68.23	-9.64

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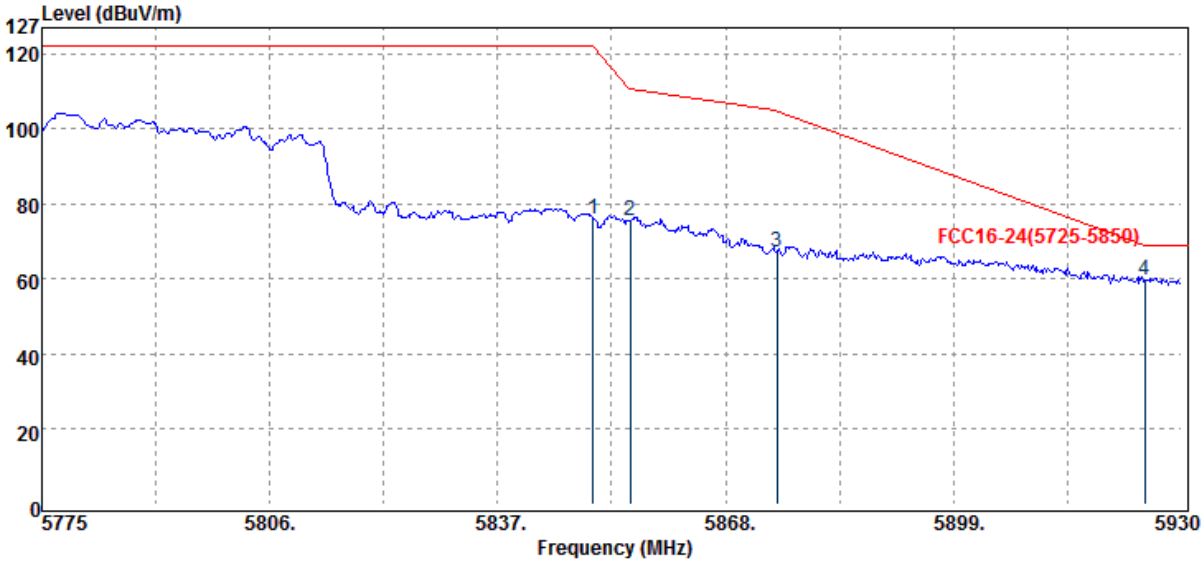
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	68.90	7.28	76.18	122.23	-46.05
5855.00	E	Peak	68.10	7.32	75.42	110.83	-35.41
5875.00	E	Peak	59.68	7.37	67.05	105.23	-38.18
5925.00	E	Peak	52.23	7.39	59.62	68.23	-8.61

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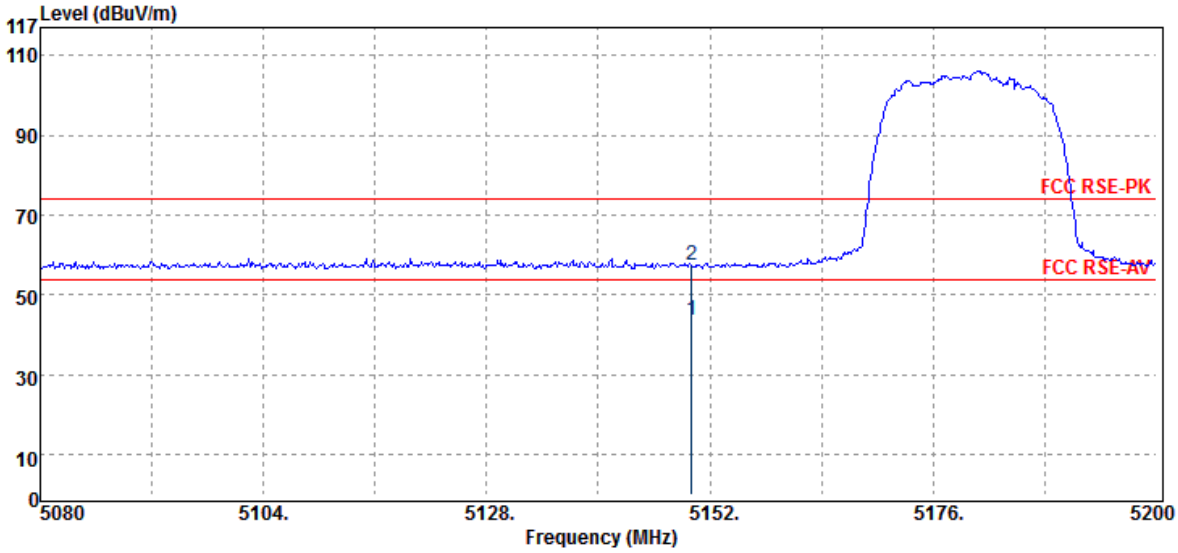
Beam Forming Mode:

802.11nHT20 mode

Operation Band	:802.11n20B1	Test Date	:2017-03-17
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	37.80	5.88	43.68	54.00	-10.32
5150.00	E	Peak	51.71	5.88	57.59	74.00	-16.41

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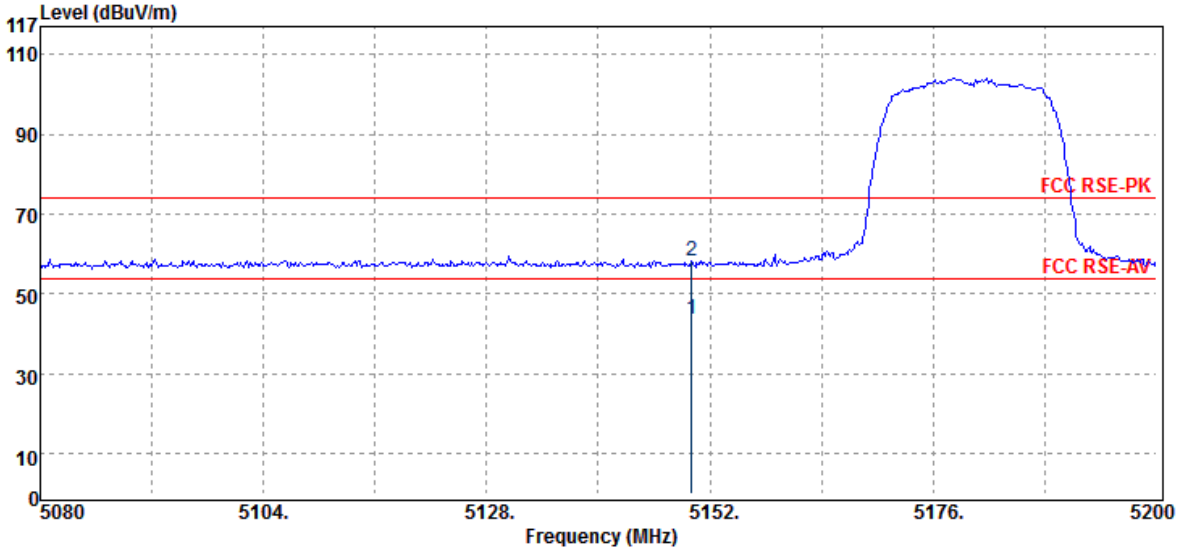
Operation Band	:802.11n20B1	Test Date	:2017-03-17
Fundamental Frequency	:5180 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	37.82	5.88	43.70	54.00	-10.30
5150.00	E	Peak	52.39	5.88	58.27	74.00	-15.73

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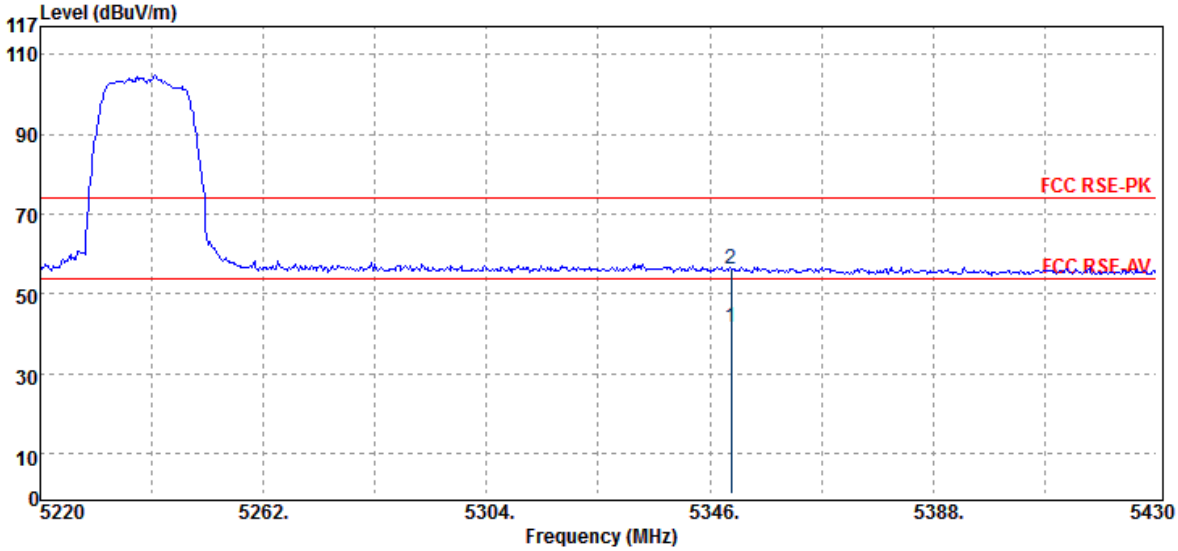
Operation Band	:802.11n20B1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	35.40	6.16	41.56	54.00	-12.44
5350.00	E	Peak	50.18	6.16	56.34	74.00	-17.66

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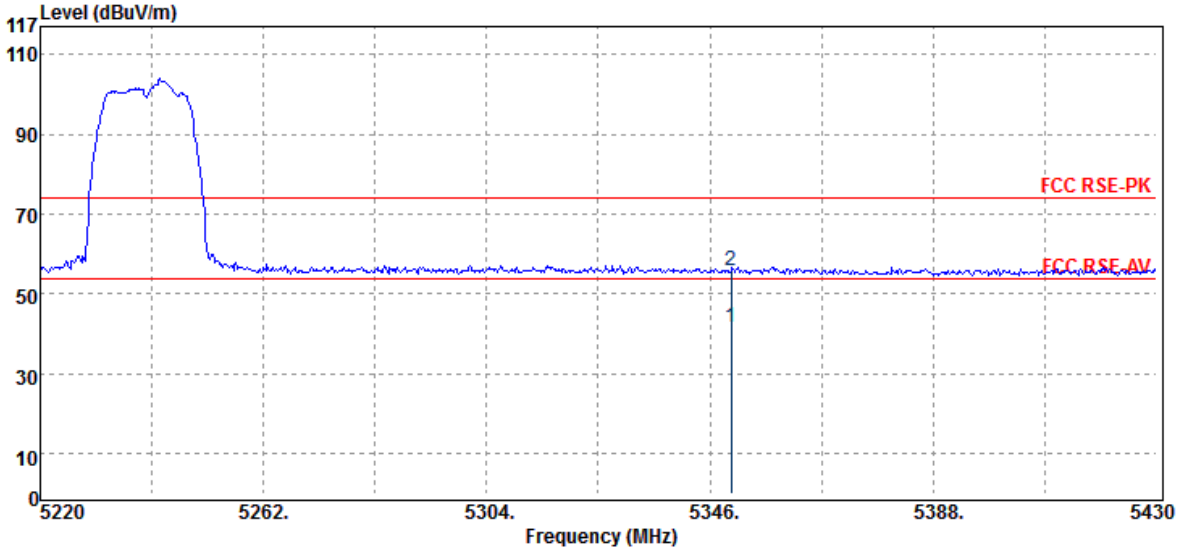
Operation Band	:802.11n20B1	Test Date	:2017-03-21
Fundamental Frequency	:5240 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	35.65	6.16	41.81	54.00	-12.19
5350.00	E	Peak	49.91	6.16	56.07	74.00	-17.93

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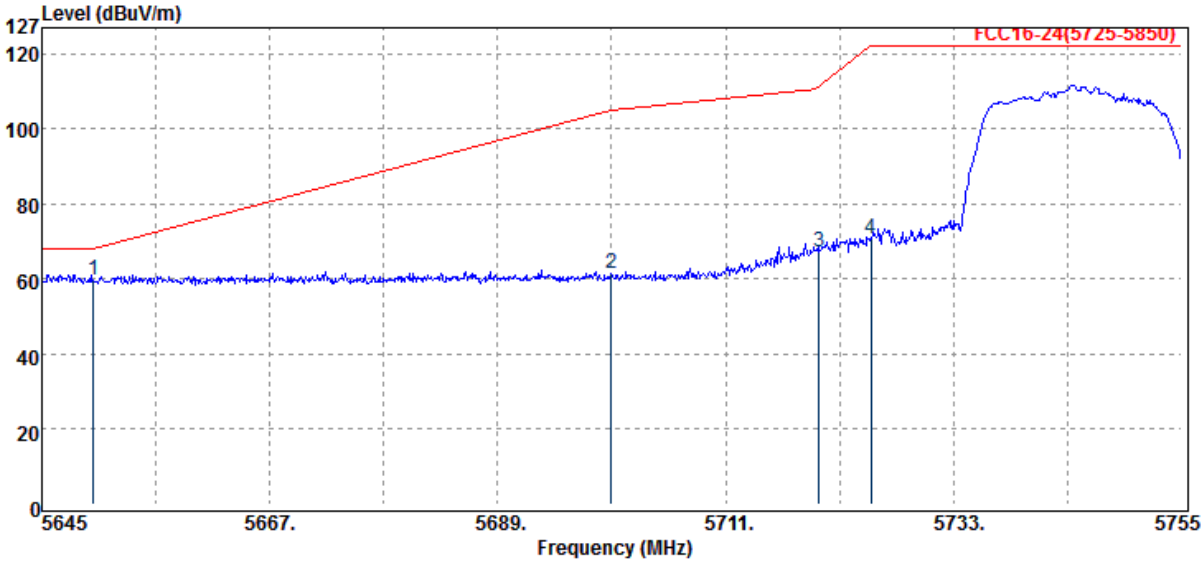
Member of SGS Group

Operation Band	:802.11n20B4	Test Date	:2017-03-17
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5650.00	E	Peak	53.48	6.48	59.96	68.23	-8.27
5700.00	E	Peak	54.71	6.67	61.38	105.23	-43.85
5720.00	E	Peak	60.61	6.60	67.21	110.83	-43.62
5725.00	E	Peak	64.11	6.59	70.70	122.23	-51.53

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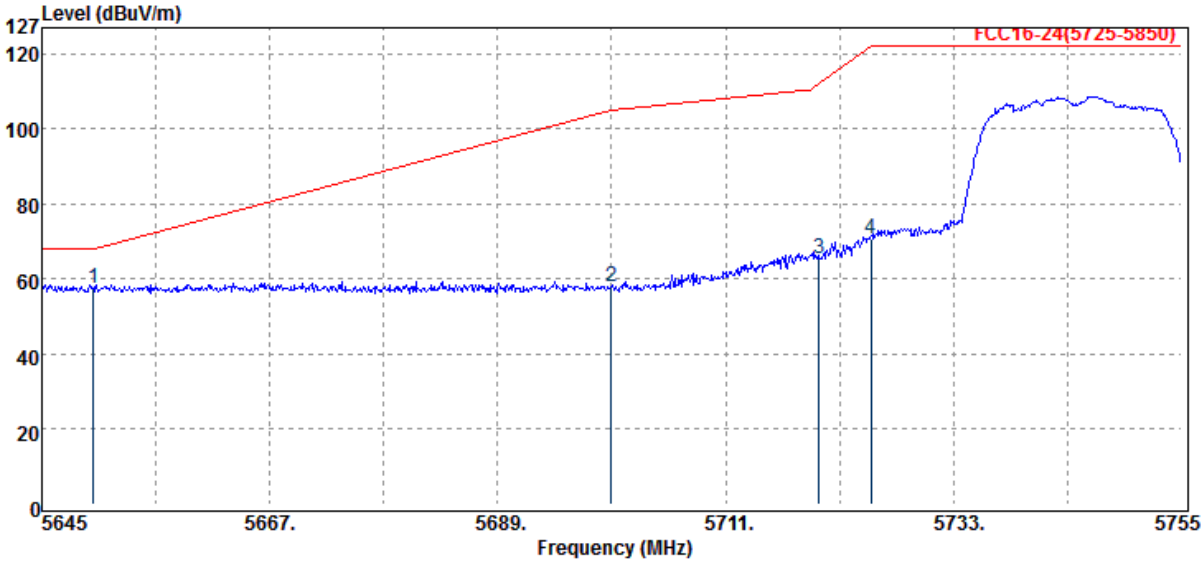
Operation Band	:802.11n20B4	Test Date	:2017-03-17
Fundamental Frequency	:5745 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	51.27	6.48	57.75	68.23	-10.48
5700.00	E	Peak	51.35	6.67	58.02	105.23	-47.21
5720.00	E	Peak	58.92	6.60	65.52	110.83	-45.31
5725.00	E	Peak	64.16	6.59	70.75	122.23	-51.48

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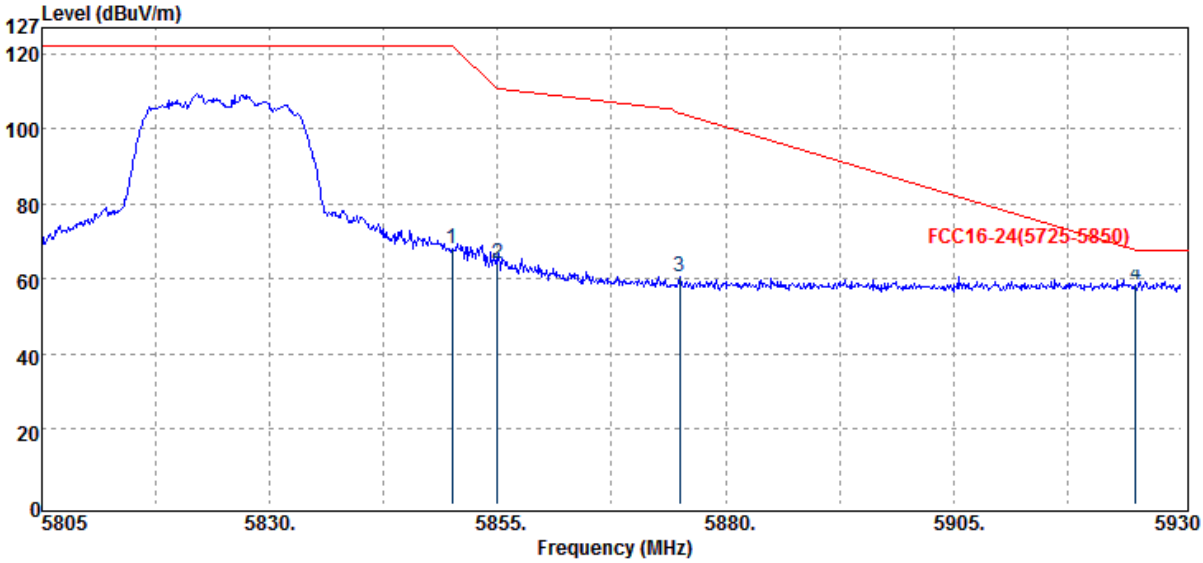
Operation Band	:802.11n20B4	Test Date	:2017-03-17
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	60.73	7.28	68.01	122.23	-54.22
5855.00	E	Peak	56.87	7.32	64.19	110.83	-46.64
5875.00	E	Peak	53.14	7.37	60.51	105.23	-44.72
5925.00	E	Peak	51.12	7.39	58.51	68.23	-9.72

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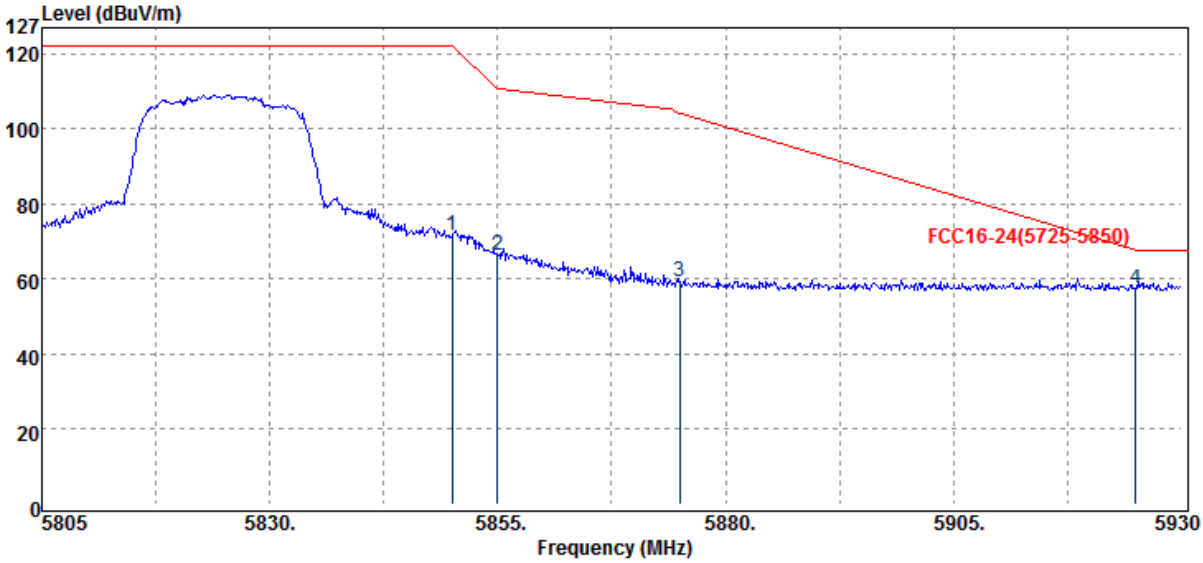
Operation Band	:802.11n20B4	Test Date	:2017-03-17
Fundamental Frequency	:5825 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	64.16	7.28	71.44	122.23	-50.79
5855.00	E	Peak	59.01	7.32	66.33	110.83	-44.50
5875.00	E	Peak	52.01	7.37	59.38	105.23	-45.85
5925.00	E	Peak	50.28	7.39	57.67	68.23	-10.56

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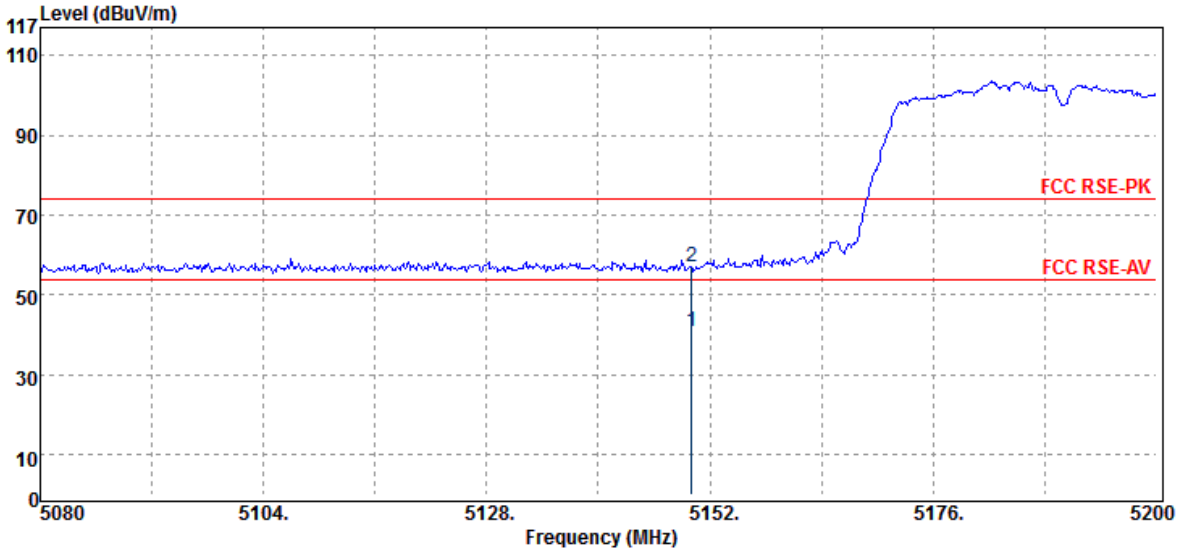
802.11n HT40 mode

Operation Band	:802.11n40B1	Test Date	:2017-03-17
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	34.89	5.88	40.77	54.00	-13.23
5150.00	E	Peak	51.18	5.88	57.06	74.00	-16.94

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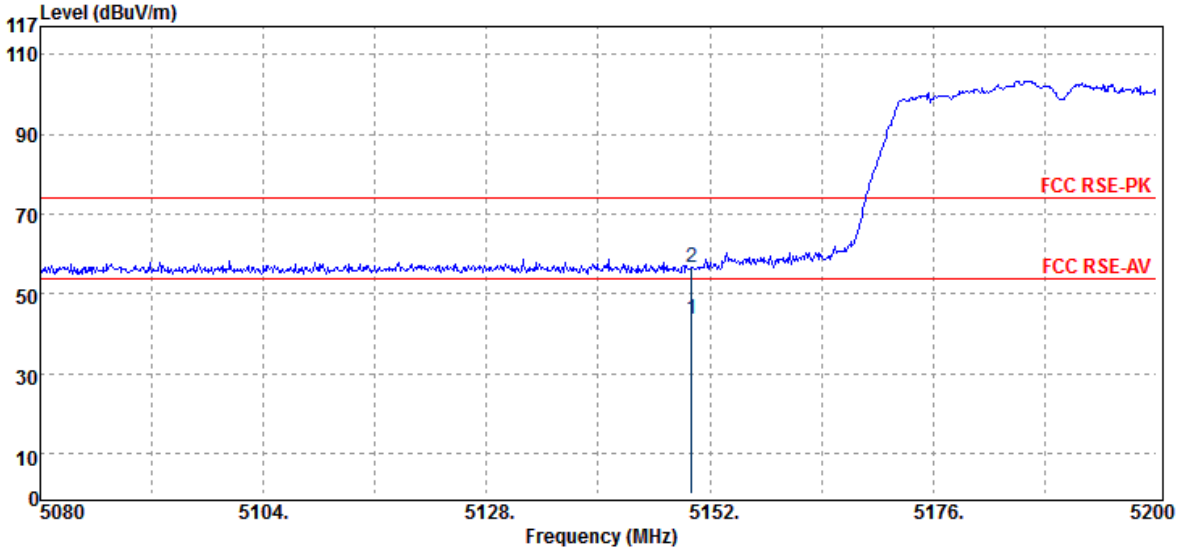
Operation Band	:802.11n40B1	Test Date	:2017-03-17
Fundamental Frequency	:5190 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	37.68	5.88	43.56	54.00	-10.44
5150.00	E	Peak	50.66	5.88	56.54	74.00	-17.46

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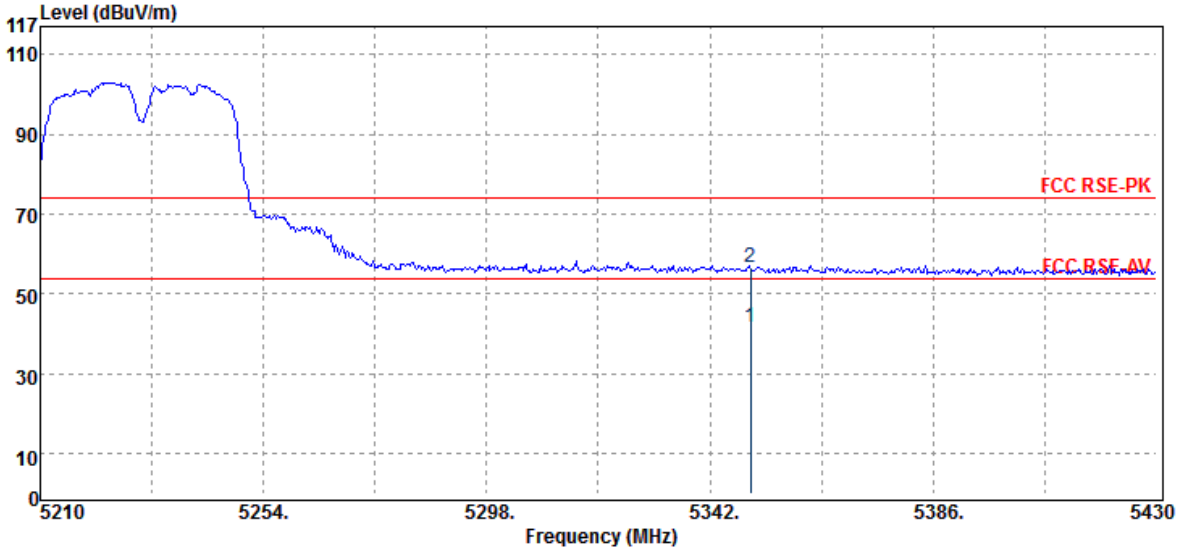
Operation Band	:802.11n40B1	Test Date	:2017-03-21
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	35.53	6.16	41.69	54.00	-12.31
5350.00	E	Peak	50.35	6.16	56.51	74.00	-17.49

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No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路 134 號
t (886-2) 2299-3279 f (886-2) 2298-0488 www.tw.sgs.com
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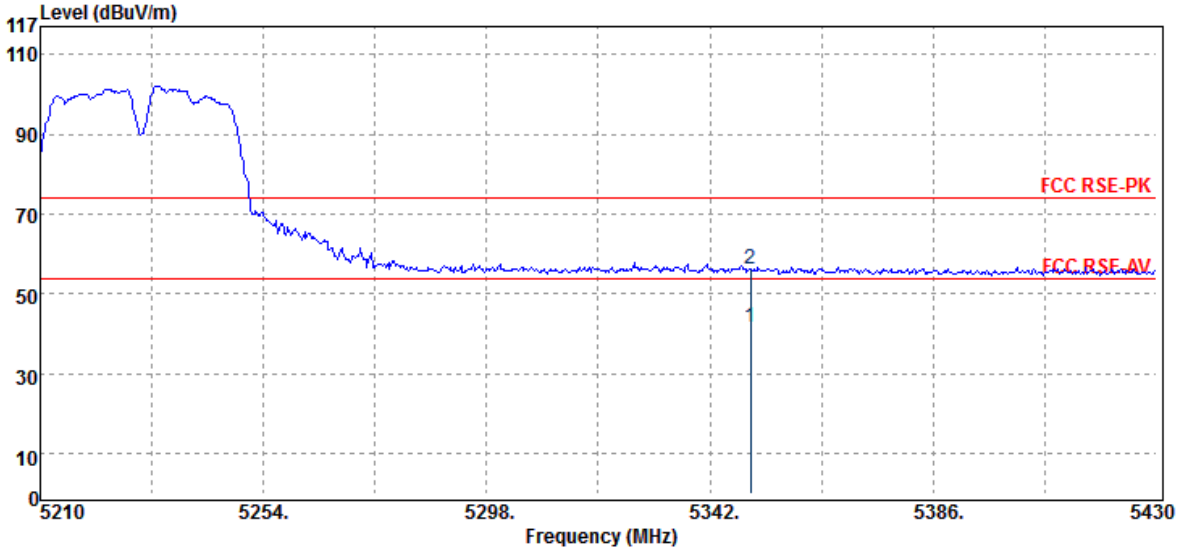
Operation Band	:802.11n40B1	Test Date	:2017-03-21
Fundamental Frequency	:5230 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	35.48	6.16	41.64	54.00	-12.36
5350.00	E	Peak	50.15	6.16	56.31	74.00	-17.69

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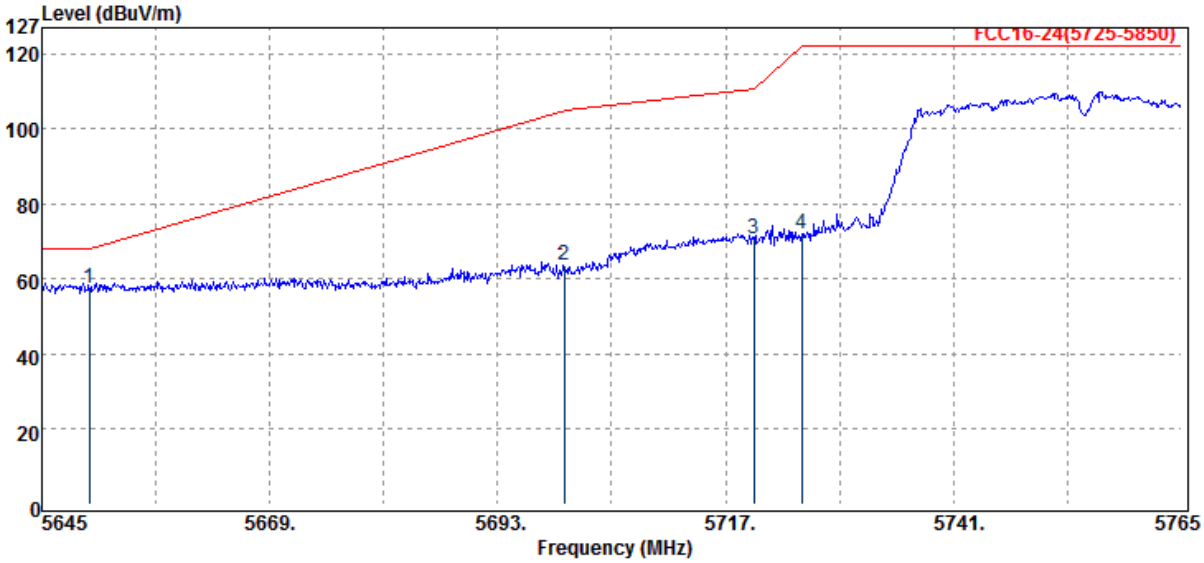
Operation Band	:802.11n40B4	Test Date	:2017-03-17
Fundamental Frequency	:5755 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	51.14	6.48	57.62	68.23	-10.61
5700.00	E	Peak	57.10	6.67	63.77	105.23	-41.46
5720.00	E	Peak	64.35	6.60	70.95	110.83	-39.88
5725.00	E	Peak	65.33	6.59	71.92	122.23	-50.31

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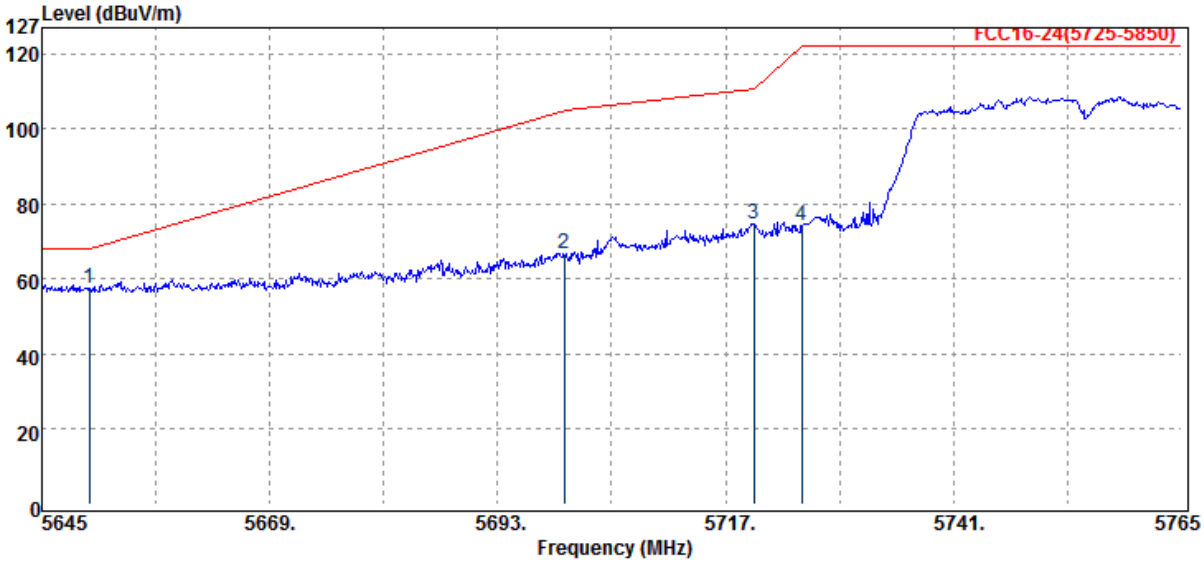
Operation Band	:802.11n40B4	Test Date	:2017-03-17
Fundamental Frequency	:5755 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	51.19	6.48	57.67	68.23	-10.56
5700.00	E	Peak	59.92	6.67	66.59	105.23	-38.64
5720.00	E	Peak	67.89	6.60	74.49	110.83	-36.34
5725.00	E	Peak	67.47	6.59	74.06	122.23	-48.17

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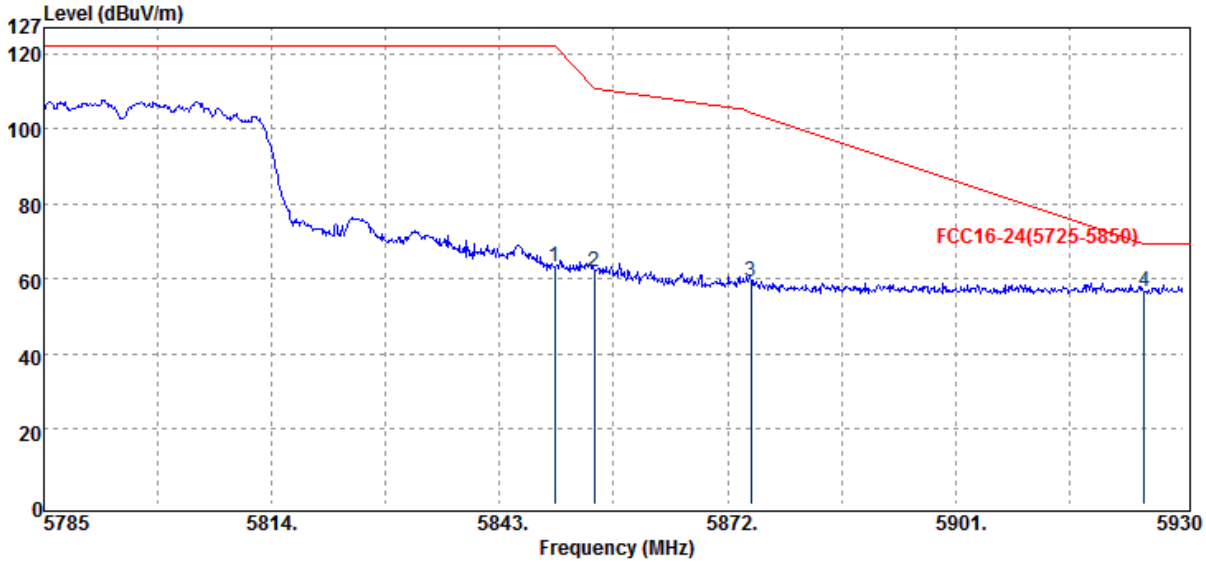
Operation Band	:802.11n40B4	Test Date	:2017-03-17
Fundamental Frequency	:5795 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	55.91	7.28	63.19	122.23	-59.04
5855.00	E	Peak	54.82	7.32	62.14	110.83	-48.69
5875.00	E	Peak	51.99	7.37	59.36	105.23	-45.87
5925.00	E	Peak	49.27	7.39	56.66	68.23	-11.57

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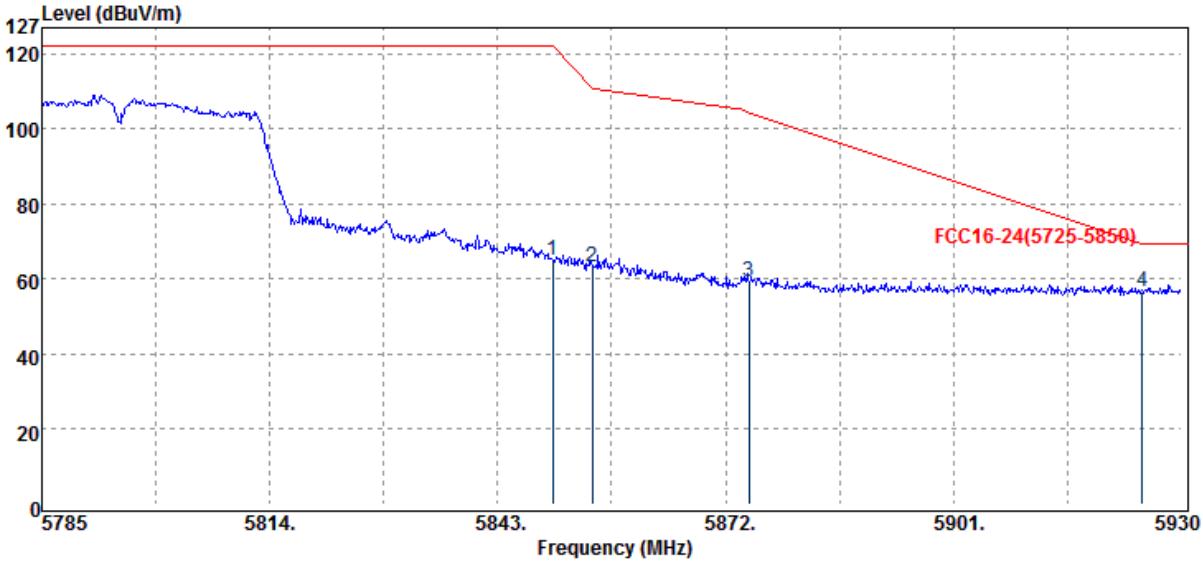
Operation Band	:802.11n40B4	Test Date	:2017-03-17
Fundamental Frequency	:5795 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	57.79	7.28	65.07	122.23	-57.16
5855.00	E	Peak	56.05	7.32	63.37	110.83	-47.46
5875.00	E	Peak	52.07	7.37	59.44	105.23	-45.79
5925.00	E	Peak	49.49	7.39	56.88	68.23	-11.35

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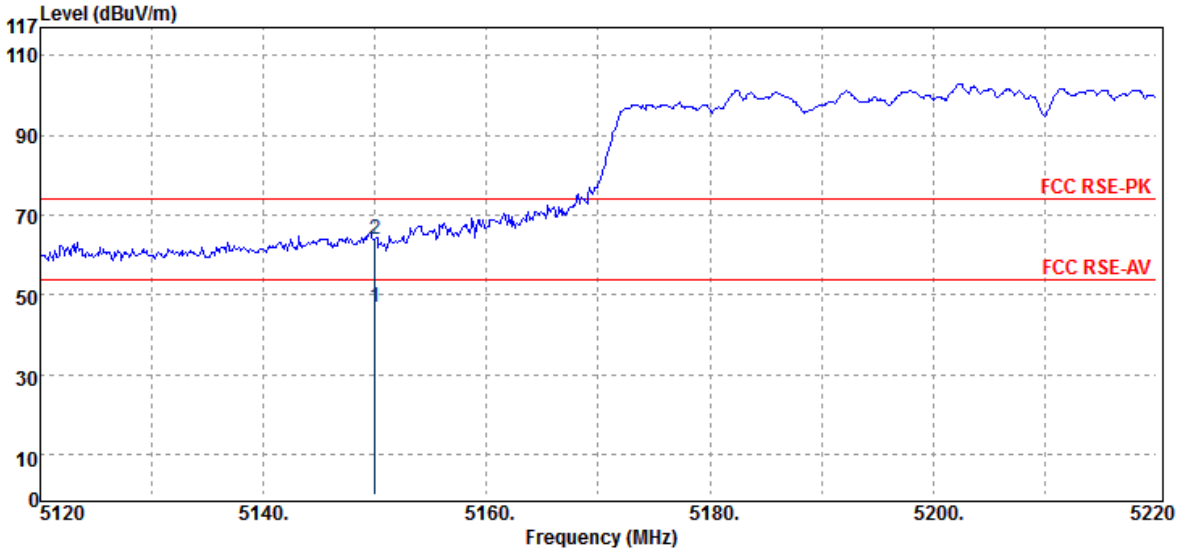
802.11ac80 VHT mode

Operation Band	:802.11ac80B1	Test Date	:2017-03-17
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	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
5150.00	E	Average	40.89	5.88	46.77	54.00	-7.23
5150.00	E	Peak	58.21	5.88	64.09	74.00	-9.91

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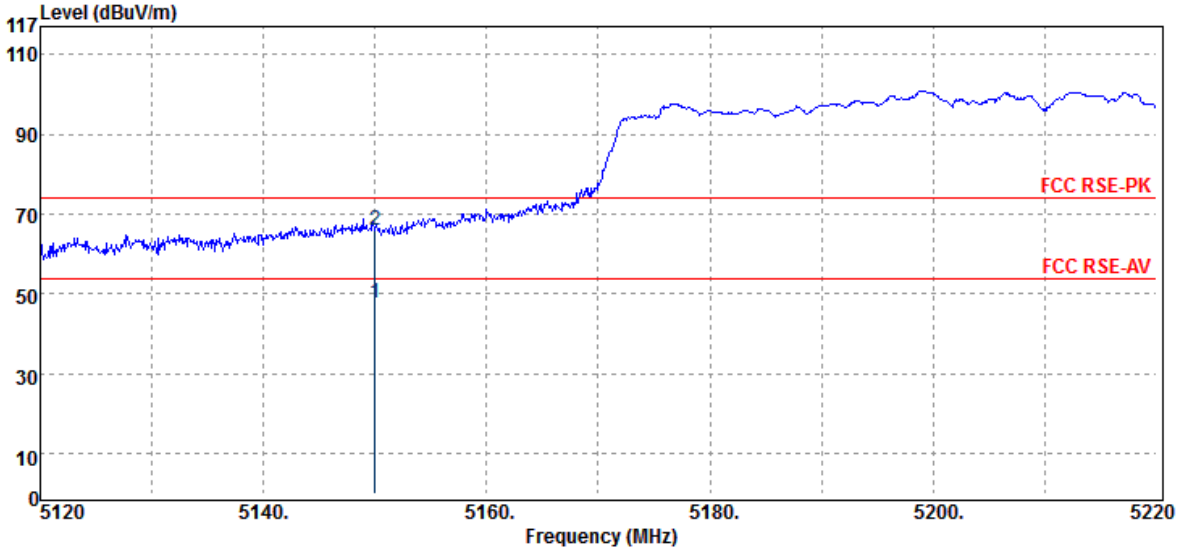
Operation Band	:802.11ac80B1	Test Date	:2017-03-17
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5150.00	E	Average	41.89	5.88	47.77	54.00	-6.23
5150.00	E	Peak	60.07	5.88	65.95	74.00	-8.05

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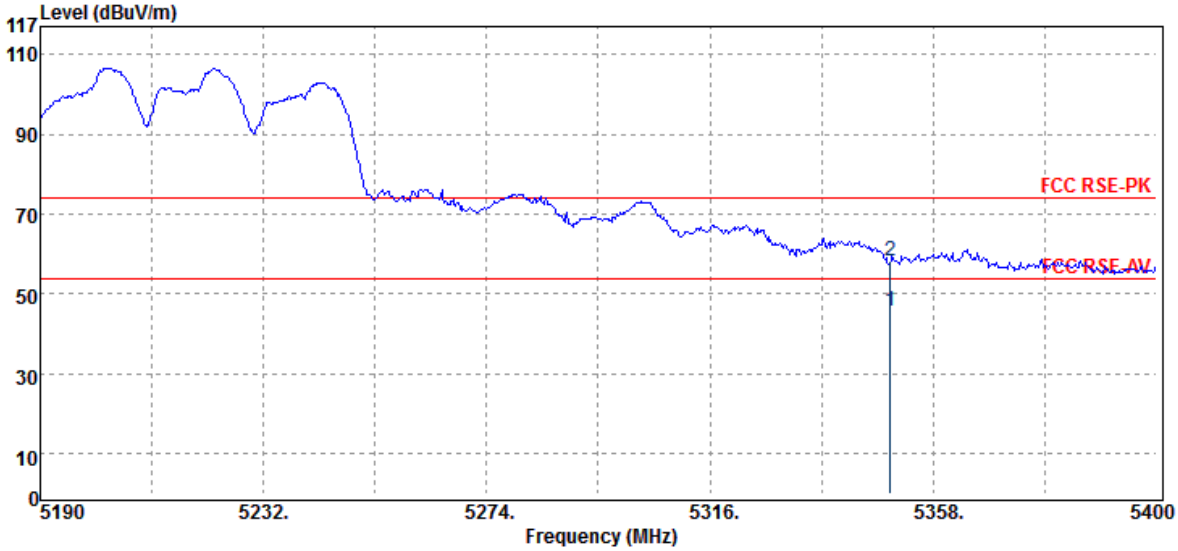
Operation Band	:802.11ac80B1	Test Date	:2017-03-21
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5350.00	E	Average	39.45	6.16	45.61	54.00	-8.39
5350.00	E	Peak	52.13	6.16	58.29	74.00	-15.71

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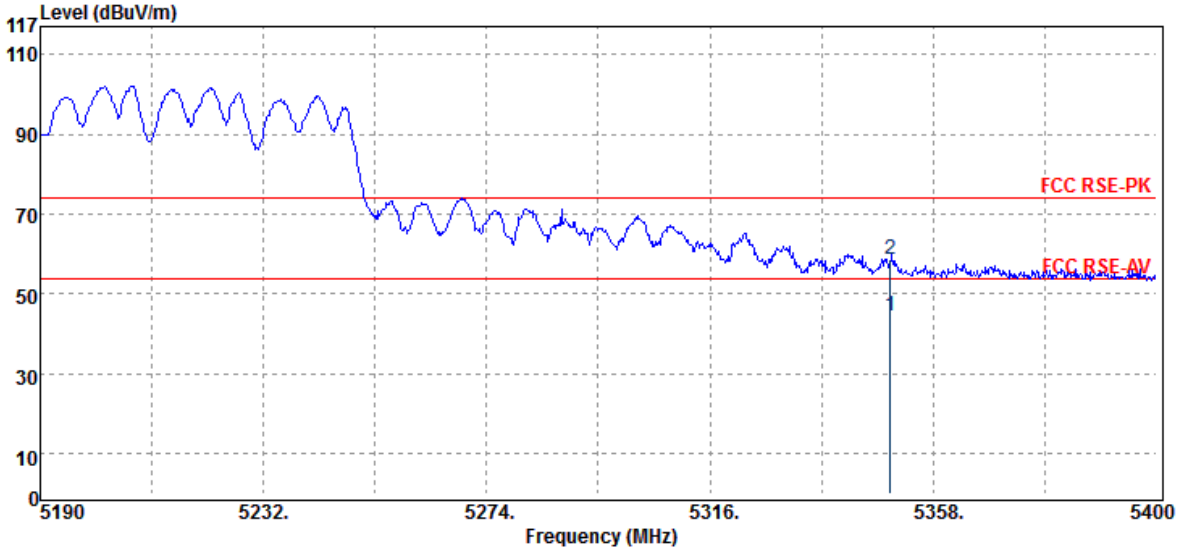
Operation Band	:802.11ac80B1	Test Date	:2017-03-21
Fundamental Frequency	:5210 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5350.00	E	Average	38.42	6.16	44.58	54.00	-9.42
5350.00	E	Peak	52.68	6.16	58.84	74.00	-15.16

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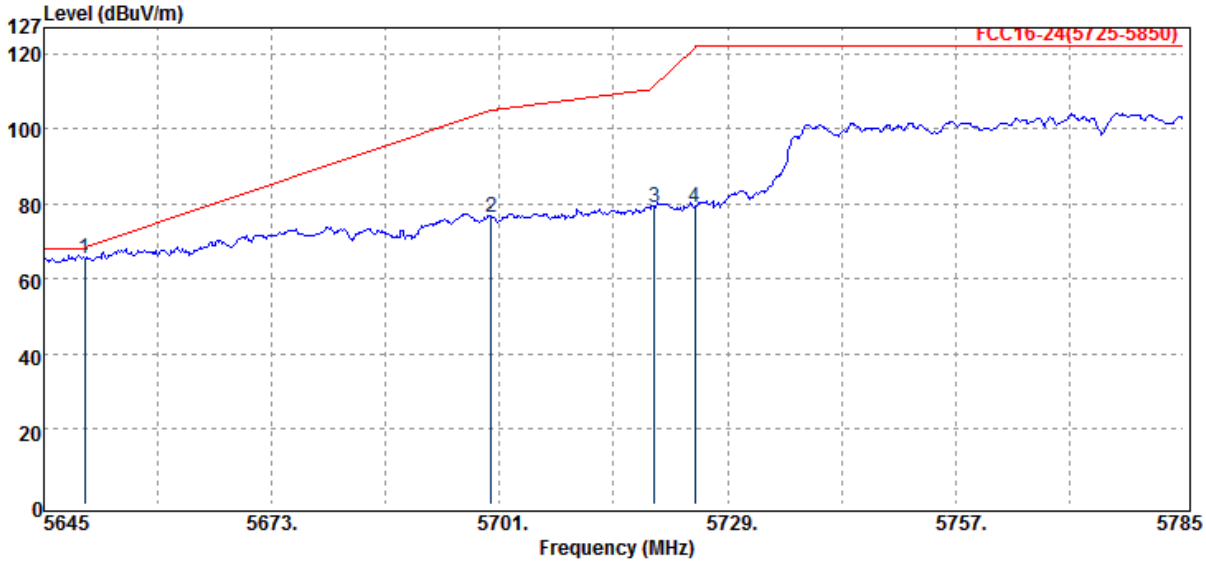
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5650.00	E	Peak	59.15	6.48	65.63	68.23	-2.60
5700.00	E	Peak	70.01	6.67	76.68	105.23	-28.55
5720.00	E	Peak	72.72	6.60	79.32	110.83	-31.51
5725.00	E	Peak	72.67	6.59	79.26	122.23	-42.97

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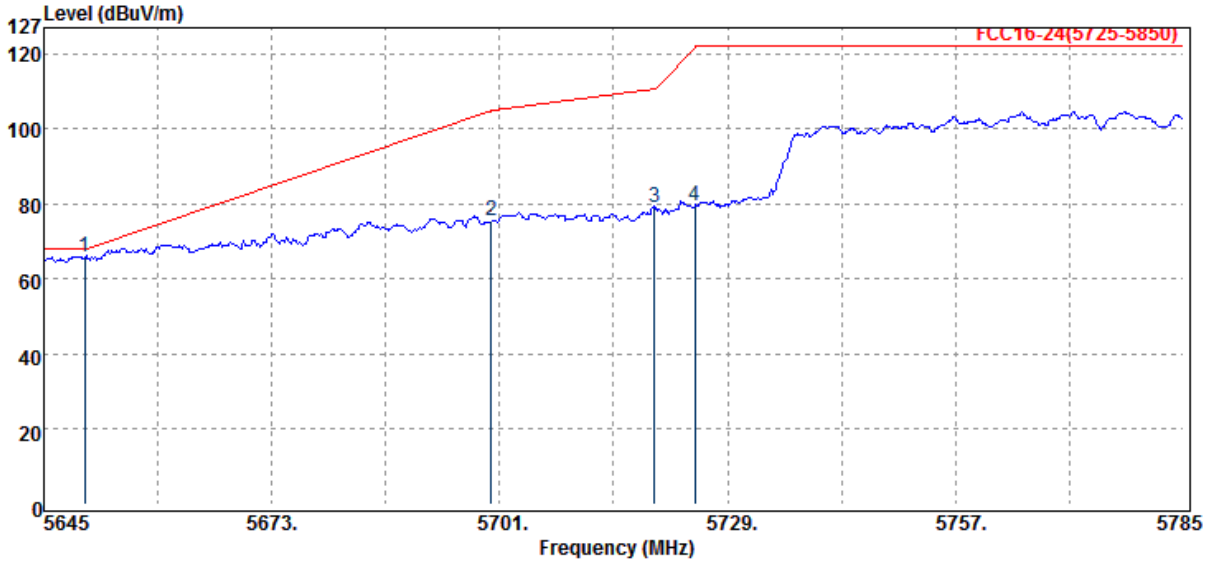
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH LOW	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5650.00	E	Peak	59.56	6.48	66.04	68.23	-2.19
5700.00	E	Peak	68.79	6.67	75.46	105.23	-29.77
5720.00	E	Peak	72.58	6.60	79.18	110.83	-31.65
5725.00	E	Peak	72.81	6.59	79.40	122.23	-42.83

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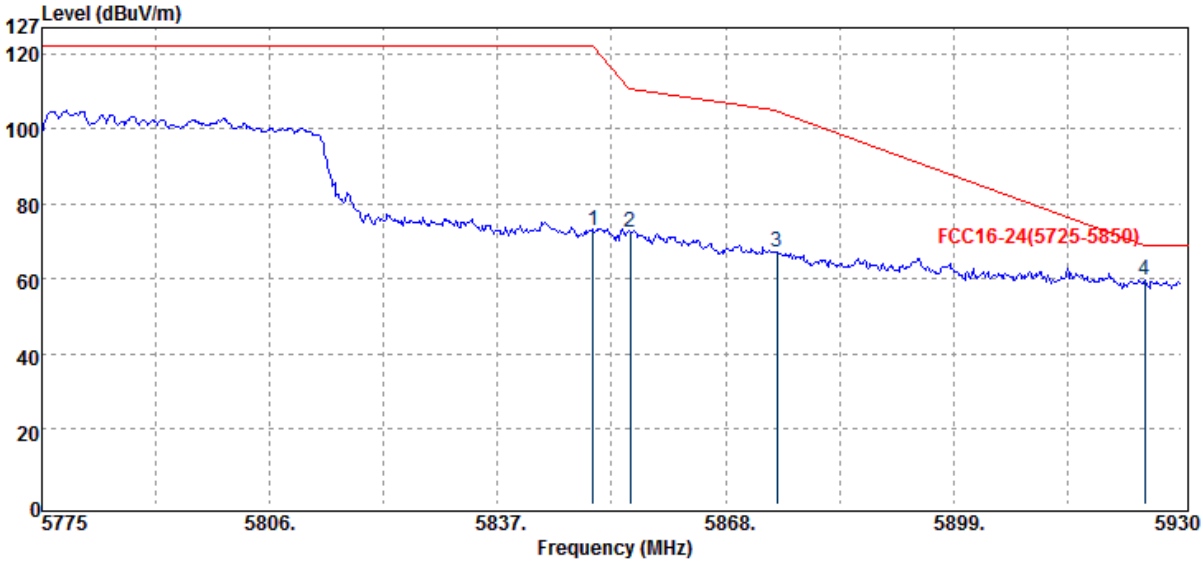
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:VERTICAL



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
5850.00	E	Peak	65.67	7.28	72.95	122.23	-49.28
5855.00	E	Peak	65.29	7.32	72.61	110.83	-38.22
5875.00	E	Peak	60.01	7.37	67.38	105.23	-37.85
5925.00	E	Peak	52.16	7.39	59.55	68.23	-8.68

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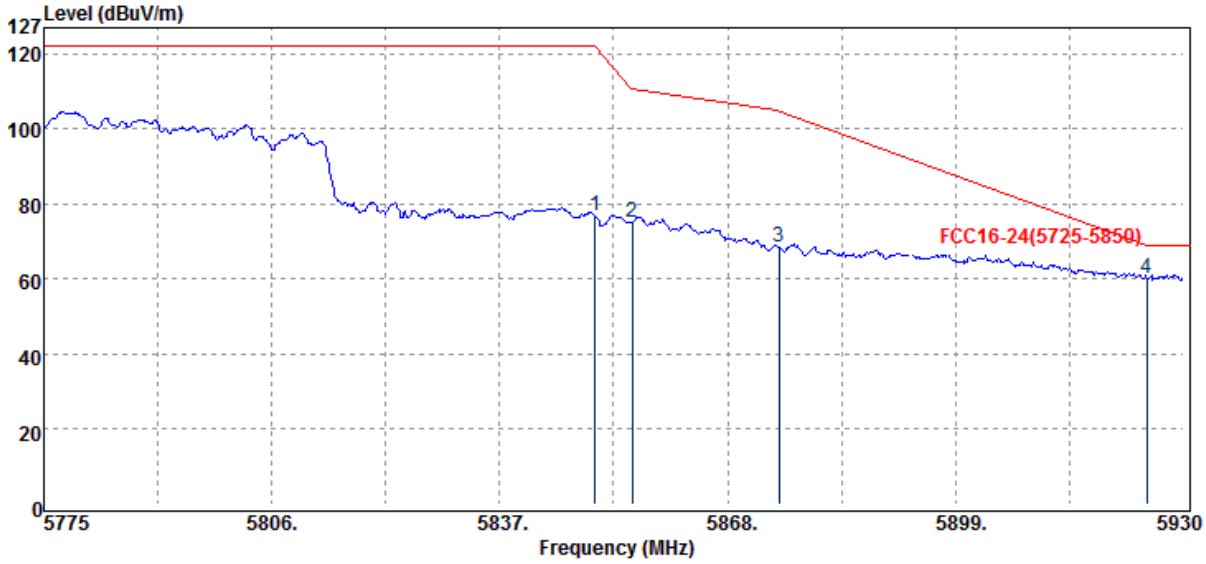
Operation Band	:802.11ac80B4	Test Date	:2017-03-17
Fundamental Frequency	:5775 MHz	Temp./Humi.	:22 deg_C / 61 RH
Operation Mode	:Bandedge CH HIGH	Engineer	:Mike
EUT Pol.	:H Plane	Measurement Antenna Pol.	:HORIZONTAL



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
5850.00	E	Peak	69.41	7.28	76.69	122.23	-45.54
5855.00	E	Peak	67.93	7.32	75.25	110.83	-35.58
5875.00	E	Peak	61.22	7.37	68.59	105.23	-36.64
5925.00	E	Peak	52.83	7.39	60.22	68.23	-8.01

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

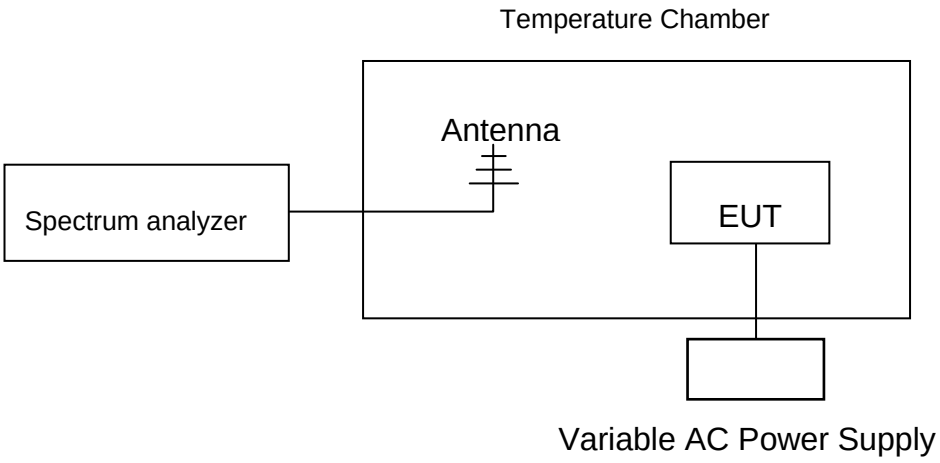
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	**Manufacturer**	**Model**	**Serial Number**	**Calibration Date**	**Calibration Due**
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	03/21/2017	03/20/2018
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017

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13.5Measurement Result

Operation Mode	802.11 a	Test Date	2017.03.14
Temperature	:17 ℃	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	13.8V	36	5180	5,179.98511	0.00000288
		44	5220	5,220.00000	0.00000000
		48	5240	5,240.07495	-0.00001430
		149	5745	5,745.07495	-0.00001305
		157	5785	5,785.03003	-0.00000519
		165	5825	5,825.09009	-0.00001547
	10.2V	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.00000	0.00000000
		48	5240	5,240.04492	-0.00000857
		149	5745	5,745.05981	-0.00001041
		157	5785	5,785.05981	-0.00001034
		165	5825	5,825.10498	-0.00001802
25 ℃	12V	36	5180	5,180.01514	-0.00000292
		44	5220	5,220.01489	-0.00000285
		48	5240	5,240.04492	-0.00000857
		149	5745	5,745.02979	-0.00000518
		157	5785	5,785.06006	-0.00001038
		165	5825	5,825.09009	-0.00001547

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50 ℃	13.8V	36	5180	5,180.02979	-0.00000575
		44	5220	5,220.03003	-0.00000575
		48	5240	5,240.01489	-0.00000284
		149	5745	5,745.10498	-0.00001827
		157	5785	5,785.04492	-0.00000777
		165	5825	5,825.12012	-0.00002062
	10.2V	36	5180	5,180.03003	-0.00000580
		44	5220	5,220.01489	-0.00000285
		48	5240	5,240.06006	-0.00001146
		149	5745	5,745.07495	-0.00001305
		157	5785	5,785.09009	-0.00001557
		165	5825	5,825.12012	-0.00002062

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Operation Mode	802.11 n_HT40	Test Date	2017.03.14
Temperature	:17 ℃	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	13.8V	38	5190	5,190.10010	-0.00001929
		46	5230	5,229.97485	0.00000481
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.97485	0.00000434
	10.2V	38	5190	5,190.05005	-0.00000964
		46	5230	5,229.97485	0.00000481
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.97485	0.00000434
25 ℃	12V	38	5190	5,190.02515	-0.00000485
		46	5230	5,229.97485	0.00000481
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.94995	0.00000864
50 ℃	13.8V	38	5190	5,190.00000	0.00000000
		46	5230	5,229.97485	0.00000481
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.97485	0.00000434
	10.2V	38	5190	5,190.02515	-0.00000485
		46	5230	5,229.97485	0.00000481
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.97485	0.00000434

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Operation Mode	802.11 ac_VHT80	Test Date	2017.03.14
Temperature	:17 ℃	Test By	Cooper
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 ℃	13.8V	42	5210	5,209.94995	0.00000961
		155	5775	5,774.85010	0.00002596
	10.2V	42	5210	5,209.94995	0.00000961
		155	5775	5,774.94995	0.00000867
25 ℃	12V	42	5210	5,209.94995	0.00000961
		155	5775	5,774.94995	0.00000867
50 ℃	13.8V	42	5210	5,209.94995	0.00000961
		155	5775	5,774.94995	0.00000867
	10.2V	42	5210	5,209.94995	0.00000961
		155	5775	5,774.94995	0.00000867

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

PCB antenna designs are used.

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

~ End of Report ~

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