

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT OF

Product Name:	Personal Device Assistant
Brand Name:	Datalogic
Model No.:	DL-Axist
Model Difference:	Personal Device Assistant
TYPE with WLAN/BT/NFC:	00ANM4HL1FT1A4
FCC ID:	U4GDLNFCR1
Report No.:	E2/2015/B0092
Issue Date:	Mar. 14, 2016
FCC Rule Part:	§15.407
Prepared for:	FUJITSU LIMITED 4-1-1, Kamikodanaka, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588, Japan
Prepared by:	SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Datalogic ADC S.r.l.
Via San Vitalino no. 13, Calderara di Reno - 40012 (Bologna) Italy

Product Name: Personal Device Assistant

Brand Name: Datalogic

Model No.: DL-Axist

**TYPE with
WLAN/BT/NFC:** 00ANM4HL1FT1A4

Model Difference: N/A

FCC ID: U4GDLNFCR1

File Number: E2/2015/B0092

Date of test: Nov. 24, 2015 ~ Mar. 14, 2016

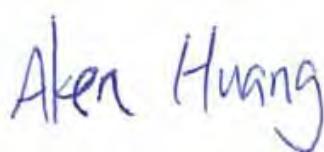
Date of EUT Received: Nov. 24, 2015

We hereby certify that:

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

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

Test By:

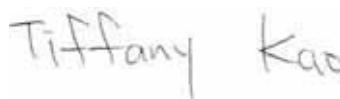


Date:

Mar. 14, 2016

Aken Huang / Engineer

Prepared By:

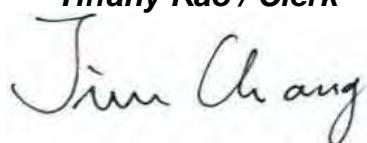


Date:

Mar. 14, 2016

Tiffany Kao / Clerk

Approved By:



Date:

Mar. 14, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/B0092	Rev.00	Initial creation of document	Mar. 14, 2016

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1. GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	Personal Device Assistant	
Brand Name:	Datalogic	
Model No.:	DL-Axist	
TYPE with WLAN/BT/NFC:	00ANM4HL1FT1A4	
Model Difference:	N/A	
Product SW/HW version:	4.1.1 0.00.17.2015 1106 eng / DLX WLAN R1	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	3.8Vdc from rechargeable battery and 5.0Vdc from adapter	
	Battery:	1. Model No.: Standard BTDL1, Supplier: JMS 2. Model No.: Extended BTDL1, Supplier: JMS
	Adapter:	1. Model No.: SYS1460-1005, Supplier: Sunny 2. Model No.: SYS1561-1005, Supplier: Sunny

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg.)	Modulation Technology
11a	5150~5250	4	11.12 dBm	OFDM
	5250~5350	4	10.65 dBm	
	5470~5725	12	9.49 dBm	
	5725-5850	5	8.69 dBm	
11n 20M	HT20 5150~5250	4	11.50 dBm	OFDM
	HT20 5250~5350	4	10.69 dBm	
	HT20 5470~5725	12	9.54 dBm	
	HT20 5725-5850	5	8.79 dBm	
11n 40M	HT40 5150~5250	2	10.50 dBm	OFDM
	HT40 5250~5350	2	10.12 dBm	
	HT40 5470~5725	6	10.95 dBm	
	HT40 5725-5850	2	7.21 dBm	

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Antenna Designation	PIFA Antenna Main: 5GHz Gain: 2.88dBi (5150MHz-5250MHz) 5GHz Gain: 2.98dBi (5250MHz-5350MHz) 5GHz Gain: 3.69dBi (5470MHz-5725MHz) 5GHz Gain: 1.21dBi (5725MHz-5850MHz) Aux: 5GHz Gain: 2.59dBi (5150MHz-5250MHz) 5GHz Gain: 2.59dBi (5250MHz-5350MHz) 5GHz Gain: 2.37dBi (5470MHz-5725MHz) 5GHz Gain: 2.57dBi (5725MHz-5850MHz)
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65Mbps 802.11 n_40MHz: 13.5 – 135Mbps

1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	Personal Device Assistant
Brand Name:	Datalogic
Model No.:	DL-Axist
Model Difference:	N/A
IC:	3862E-DLNFCR1
Wi-Fi Specification	802.11a/b/g/n
Bluetooth Version	V4.0 (dual mode)
NFC Specification	NFC

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules.

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

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

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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 1dB, and 10dB attenuator.

offset

$$= \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 11(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

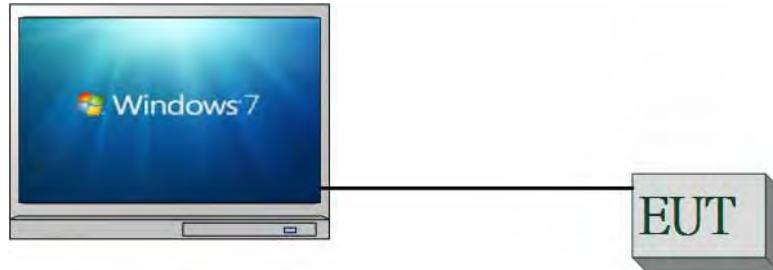


Fig. 2-2 Conducted (Antenna Port) Configuration

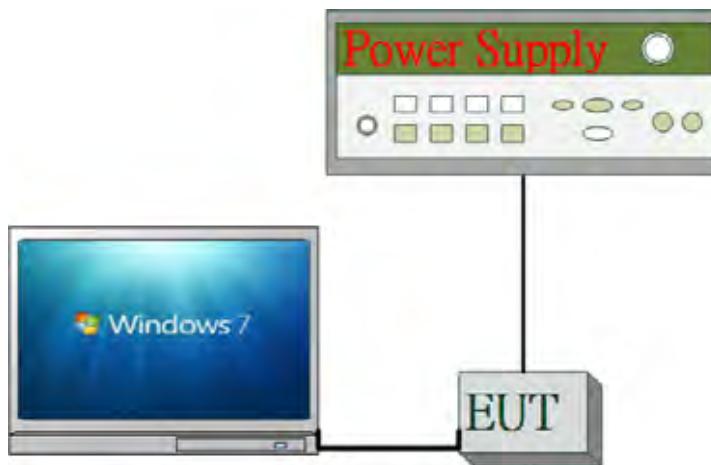


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-YYG88	Shielded	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY53140006	N/A	Un-shielded

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3. SUMMARY OF TEST RESULT

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

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5150 MHz ~5250 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

Operated band in 5250 MHz ~5350 MHz:

4 channels are provided for 802.11a, 802.11n_HT20

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

2 channels are provided for 802.11n_HT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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Operated band in 5470 MHz ~5725 MHz:

11 channels are provided for 802.11a, 802.11n_HT20

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

5 channels are provided for 802.11n_HT40

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

3

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755 MHz	159	5795 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.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	MAIN
802.11a	5260~5320	52 to 64	60	OFDM	6	MAIN
802.11a	5500~5720	100 to 140	116	OFDM	6	MAIN
802.11a	5745~5825	149 to 165	157	OFDM	6	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	MCS0	MAIN
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11n_HT20				OFDM	MCS0	MAIN
802.11n_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN

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

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	MAIN
802.11ac_HT20				OFDM	MCS0	MAIN
802.11ac_HT40	5190~5230	38 to 46	38,46	OFDM	MCS0	MAIN
802.11a	5260~5320	52 to 64	52,60,64	OFDM	6	MAIN
802.11ac_HT20				OFDM	MCS0	MAIN
802.11ac_HT40	5270~5310	54 to 62	54,62	OFDM	MCS0	MAIN
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6	MAIN
802.11ac_HT20				OFDM	MCS0	MAIN
802.11ac_HT40	5510~5710	102 to 142	102,110,134,142	OFDM	MCS0	MAIN
802.11a	5745~5825	149 to 165	149,157,165	OFDM	6	MAIN
802.11ac_HT20				OFDM	MCS0	MAIN
802.11ac_HT40	5755~5795	151 to 159	151,159	OFDM	MCS0	MAIN

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	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	ESCI 3	101311	06/18/2015	06/17/2016
Coaxial Cables	N/A	N30N30-1042-150 cm	N/A	02/07/2015	02/06/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3. EUT Setup

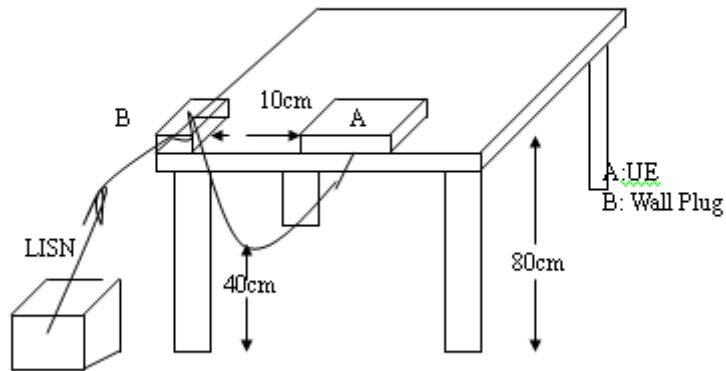
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz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

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6.4. Test SET-UP



6.5. Measurement Procedure

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

6.6. Measurement Result

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

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

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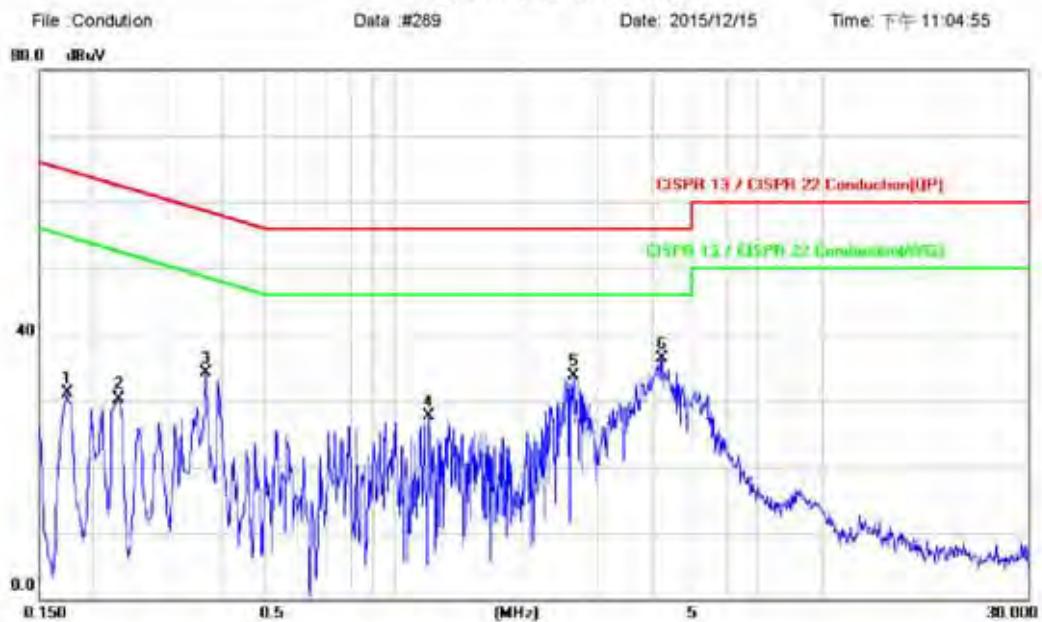
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Dec. 15, 2015
Temperature:	23.8	Humidity:	70 %	Test By:	Aken
Model No.:	SYS1460-1005			Phase:	L1

Site: Conduction Room Phase: **L1** Temperature: 21 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz. Humidity: 69 %
 Mode:
 Note: Adapter:SYS1460-1005

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1740	31.00	0.08	31.08	64.77	-33.69	peak
2		0.2300	30.21	0.08	30.29	62.45	-32.16	peak
3		0.3660	34.05	0.15	34.20	58.59	-24.39	peak
4		1.2140	27.34	0.45	27.79	56.00	-28.21	peak
5		2.6340	33.05	0.59	33.64	56.00	-22.36	peak
6 *		4.2300	35.62	0.61	36.23	56.00	-19.77	peak

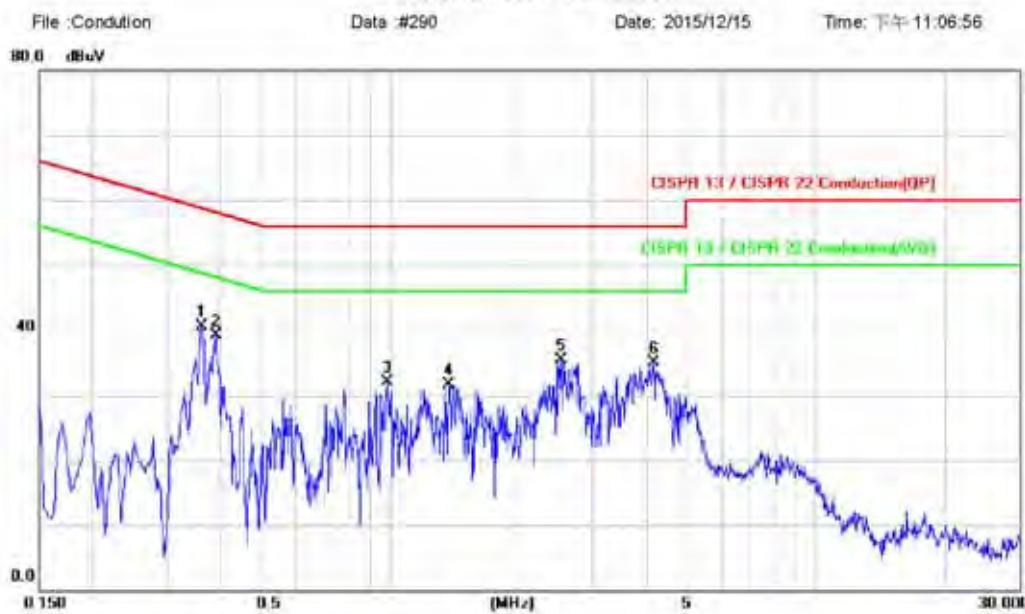
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Site: Conduction Room Phase: **N** Temperature: 21 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 69 %
 Mode:
 Note: Adapter:SYS1460-1005

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1	*	0.3620	40.23	0.20	40.43	58.68	-18.25	peak	
2		0.3900	38.80	0.21	39.01	58.06	-19.05	peak	
3		0.9860	31.44	0.46	31.90	56.00	-24.10	peak	
4		1.3780	30.96	0.54	31.50	56.00	-24.50	peak	
5		2.5140	34.67	0.64	35.31	56.00	-20.69	peak	
6		4.1780	34.34	0.66	35.00	56.00	-21.00	peak	

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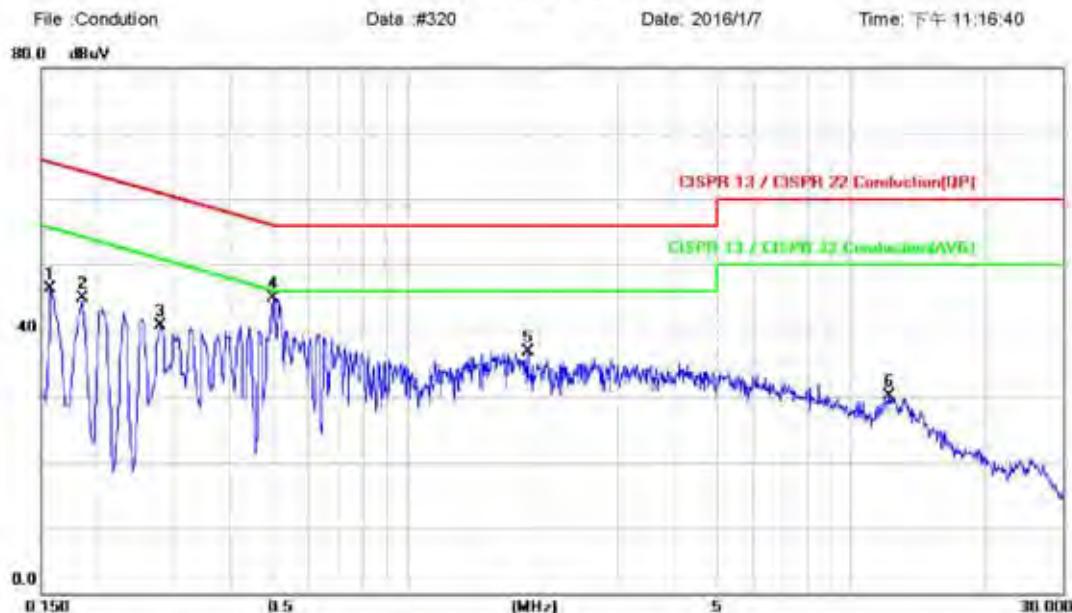
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Dec. 15, 2015
Temperature:	23.8	Humidity:	70 %	Test By:	Aken
Model No.:	SYS1561-1005			Phase:	L1

Site: Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 62 %
 Mode:
 Note: Adapter:SYS1561-1005

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.1580	46.25	0.08	46.33	65.57	-19.24	peak
2		0.1860	44.93	0.07	45.00	64.21	-19.21	peak
3		0.2780	40.70	0.10	40.80	60.88	-20.08	peak
4	*	0.5020	44.69	0.23	44.92	56.00	-11.08	peak
5		1.8740	36.07	0.56	36.63	56.00	-19.37	peak
6		12.1900	29.44	0.67	30.11	60.00	-29.89	peak

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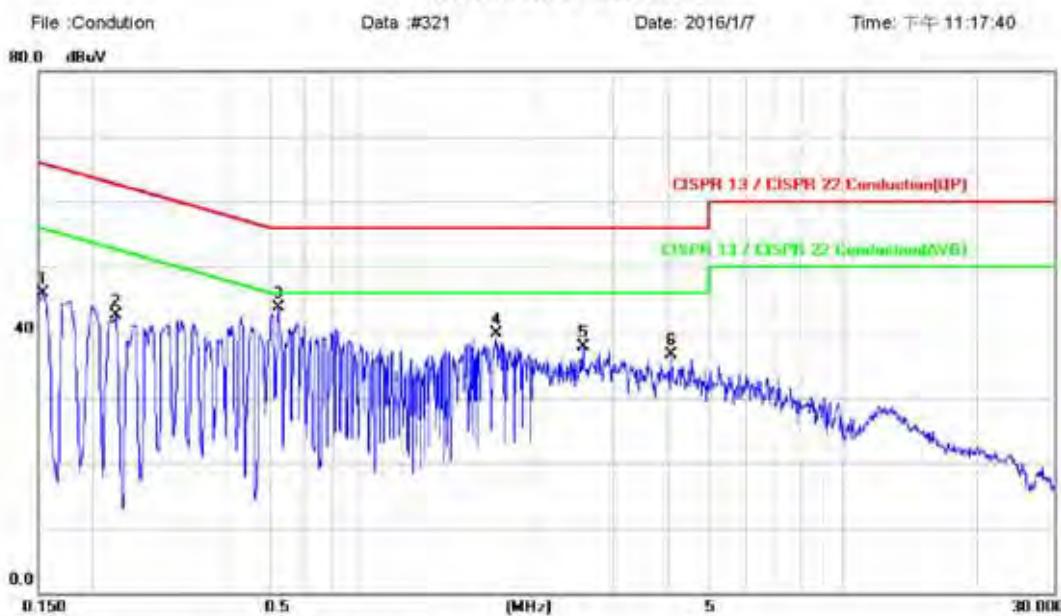
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Site: Conduction Room
Limit: CISPR 13 / CISPR 22 Conduction(QP)
Mode:
Note: Adapter:SYS1561-1005

Phase: **N**
Power: AC 120V/60Hz

Temperature: 22 °C
Humidity: 62 %

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over	Detector	Comment
1		0.1540	45.79	0.14	45.93	65.78	-19.85	peak	
2		0.2260	42.34	0.14	42.48	62.60	-20.12	peak	
3 *		0.5260	43.33	0.28	43.61	56.00	-12.39	peak	
4		1.6380	39.18	0.57	39.75	56.00	-16.25	peak	
5		2.5740	37.12	0.64	37.76	56.00	-18.24	peak	
6		4.0740	35.83	0.66	36.49	56.00	-19.51	peak	

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7. DUTY CYCLE TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%)	Duty Factor (dB) $=10 \log (1/\text{Duty Cycle})$
802.11a	86.71	0.62
802.11n_20	86.10	0.65
802.11n_40	75.23	1.24

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DUTY CYCLE TEST SIGNAL Measurement Result

802.11a



802.11n HT20



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802.11n HT 40



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8. 26dB & 6dB EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

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

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

8.2 Measurement Procedure

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

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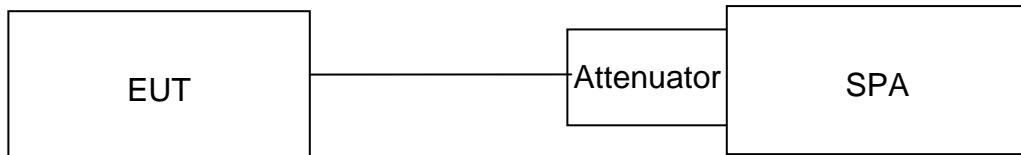
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8.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2014	12/11/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2014	12/11/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

8.4 Test Set-up



8.5 Measurement Result

26dB Bandwidth

802.11a Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	18.92	12.770
5220	18.89	12.763
5240	19.25	12.843
5260	19.10	12.811
5300	19.87	12.982
5320	19.78	12.962
5500	19.03	12.794
5580	19.28	12.850
5700	19.22	12.838

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802.11n_HT20_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5180	20.51	13.119
5220	20.25	13.063
5240	19.71	12.947
5260	19.94	12.998
5300	20.05	13.021
5320	21.13	13.248
5500	20.63	13.145
5580	20.23	13.059
5700	20.21	13.056

802.11n_HT40_Main

Frequency (MHz)	26dB Bandwidth (MHz)	10 Log (B) (dB)
5190	40.34	16.057
5230	39.39	15.954
5270	39.65	15.983
5310	39.47	15.963
5510	39.64	15.982
5550	39.46	15.962
5670	39.74	15.992

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6dB Bandwidth (5725 MHz~ 5850 MHz)**802.11a_Main**

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	15.37	11.867
5785	15.74	11.969
5825	14.31	11.557

802.11n_HT20_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5745	16.43	12.157
5785	15.74	11.970
5825	16.76	12.242

802.11n_HT40_Main

Frequency (MHz)	6dB Bandwidth (MHz)	10 Log (B) (dB)
5755	34.28	15.351
5795	32.65	15.139

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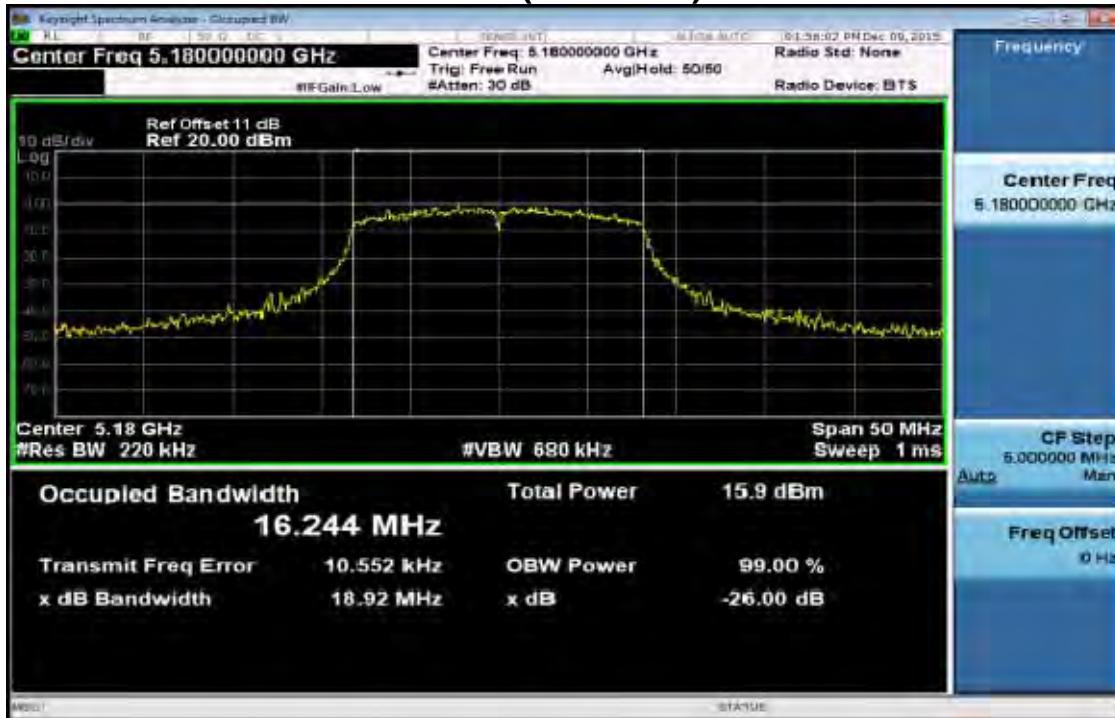
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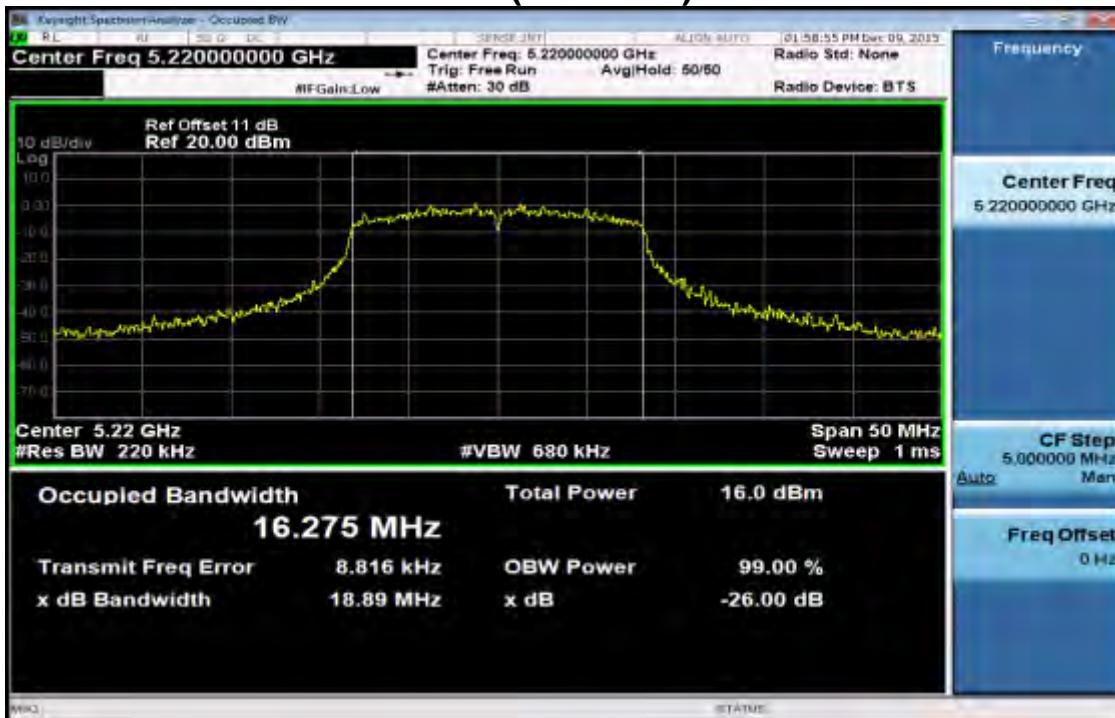
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802.11a, 5150~5250 MHz

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



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

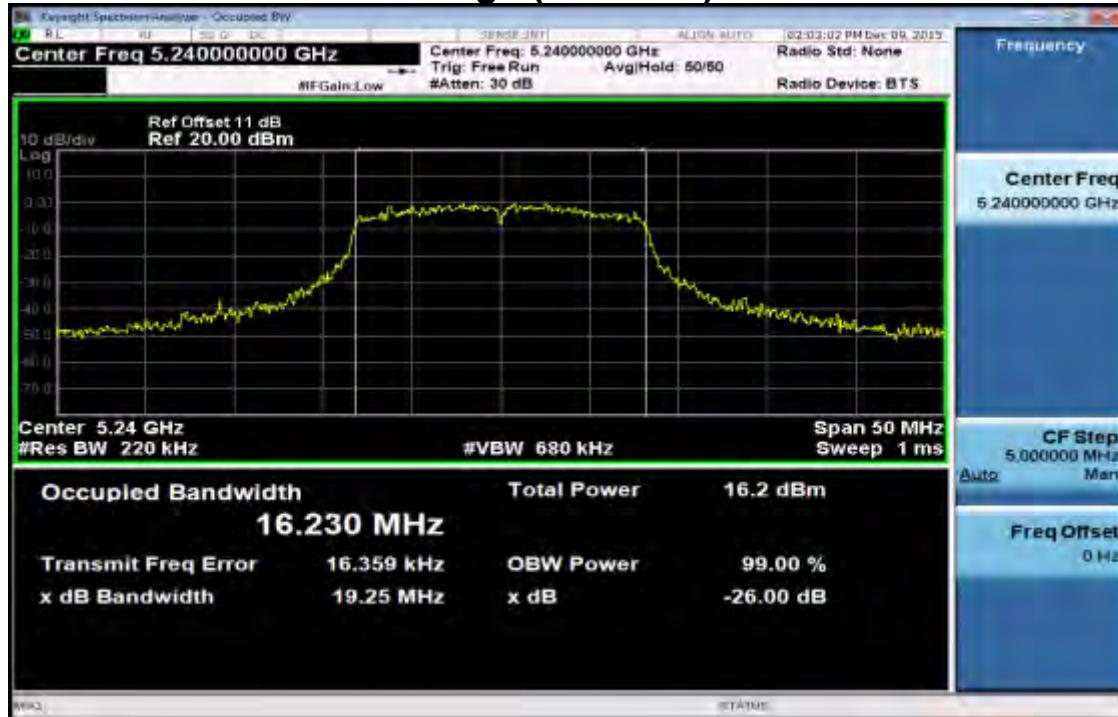


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26dB Band Width Test Data CH-High (5240MHz)

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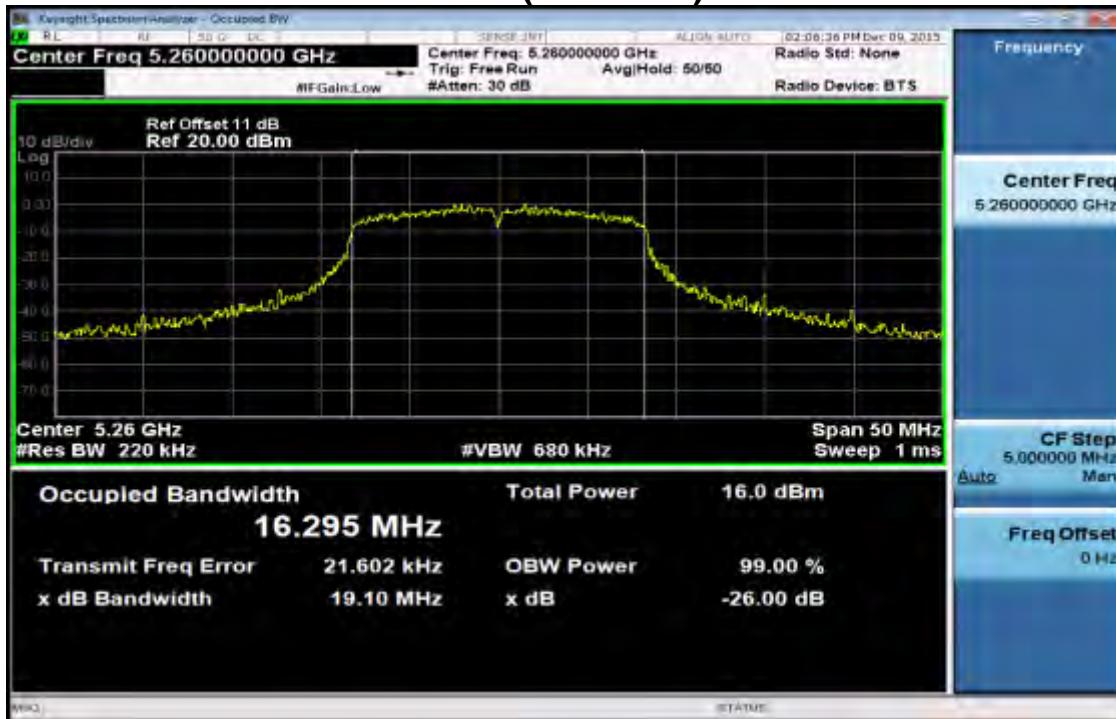
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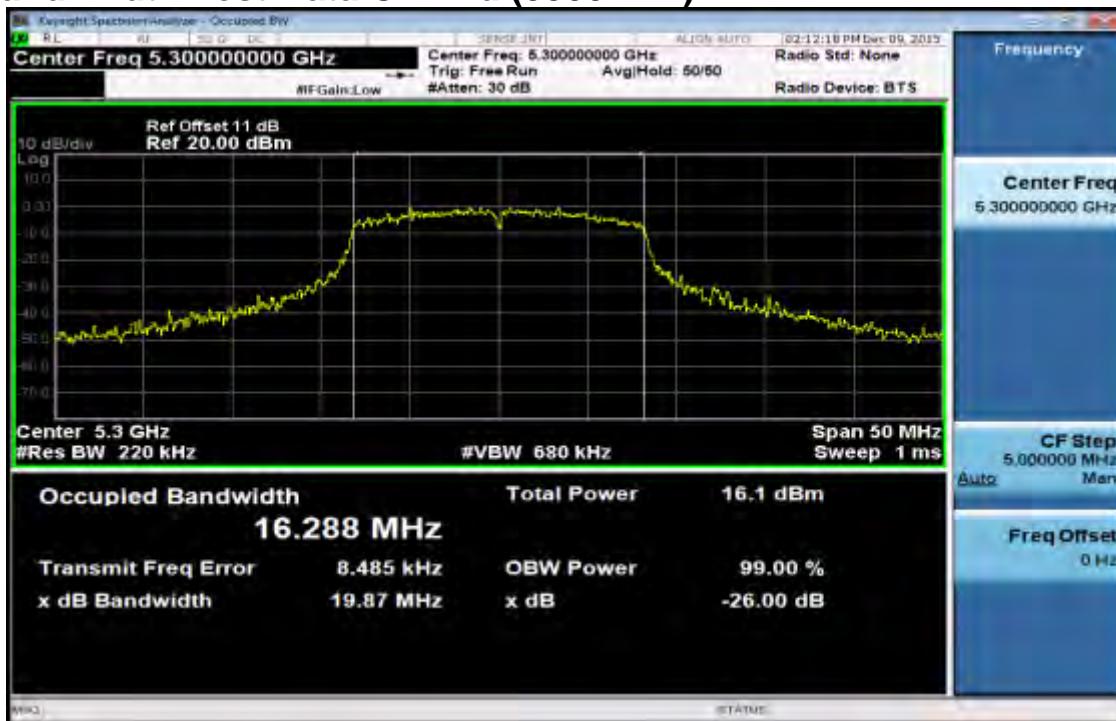
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802.11a, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260MHz)



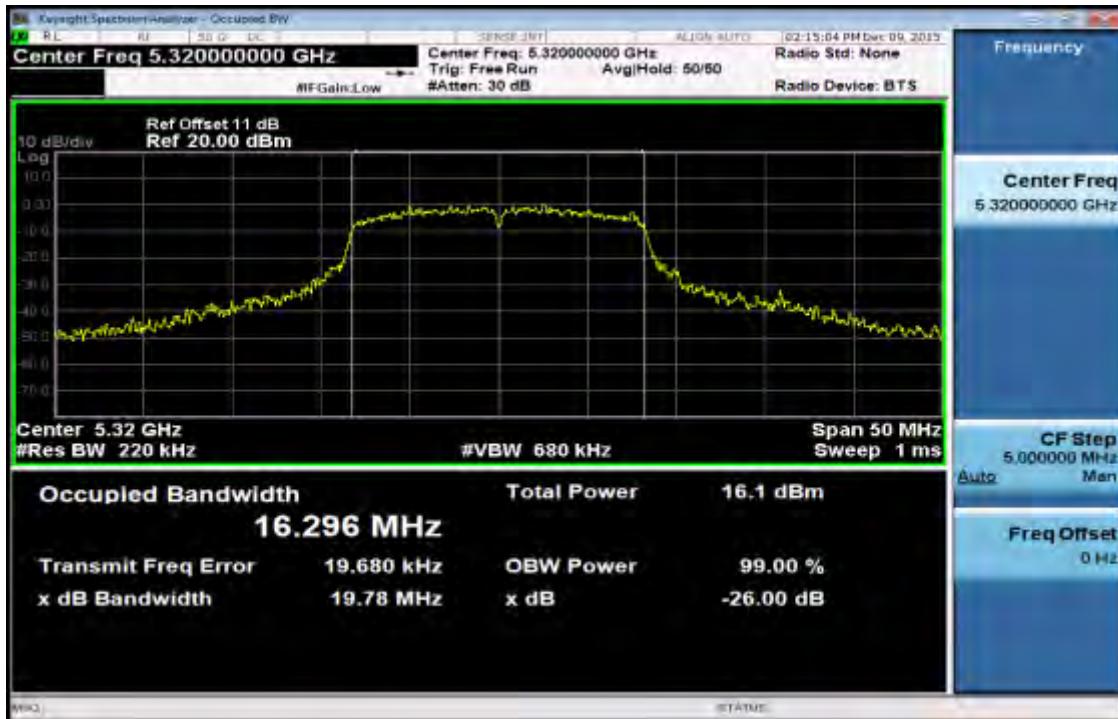
26dB Band Width Test Data CH-Mid (5300MHz)



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

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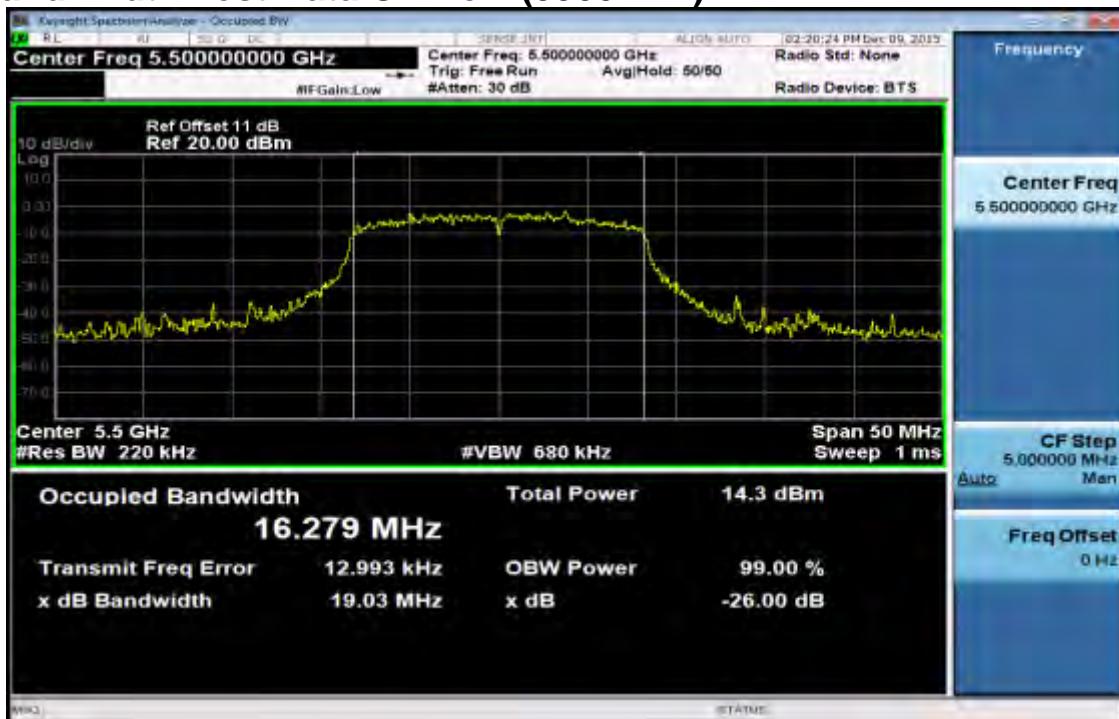
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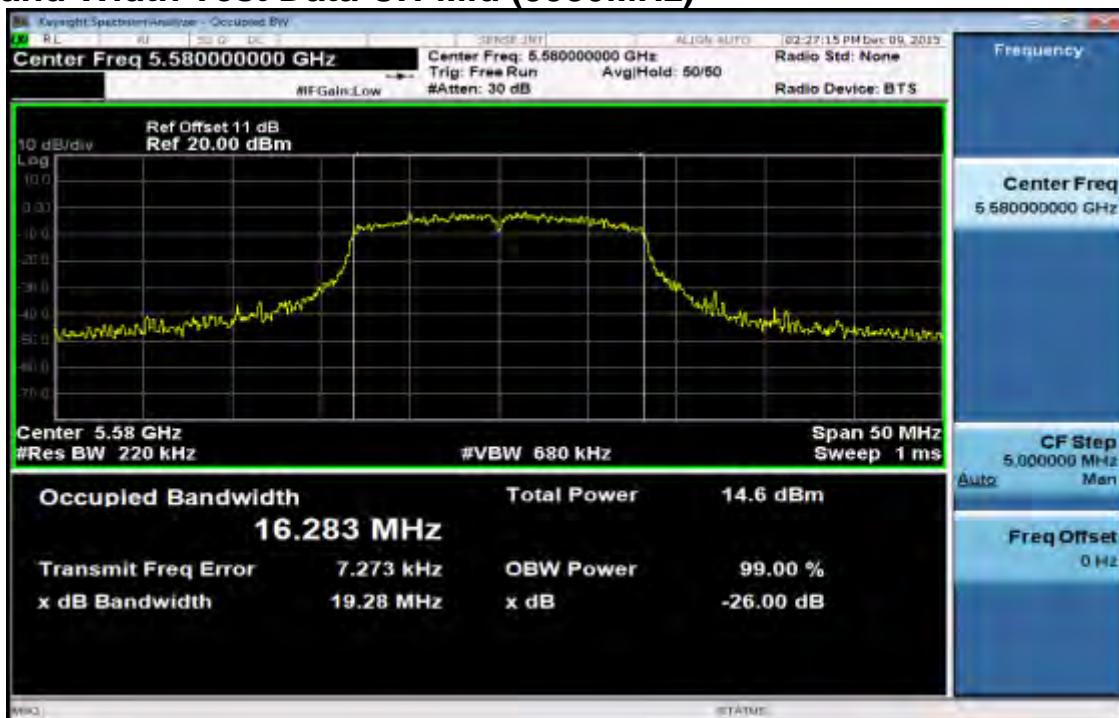
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802.11a, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500MHz)



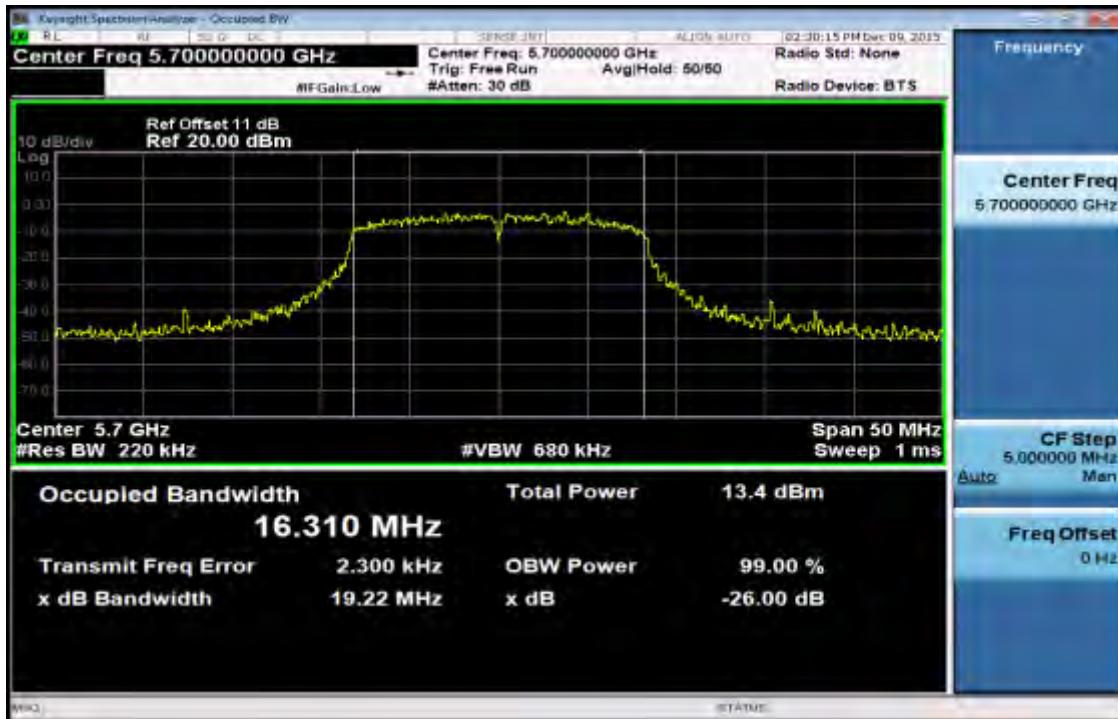
26dB Band Width Test Data CH-Mid (5580MHz)



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

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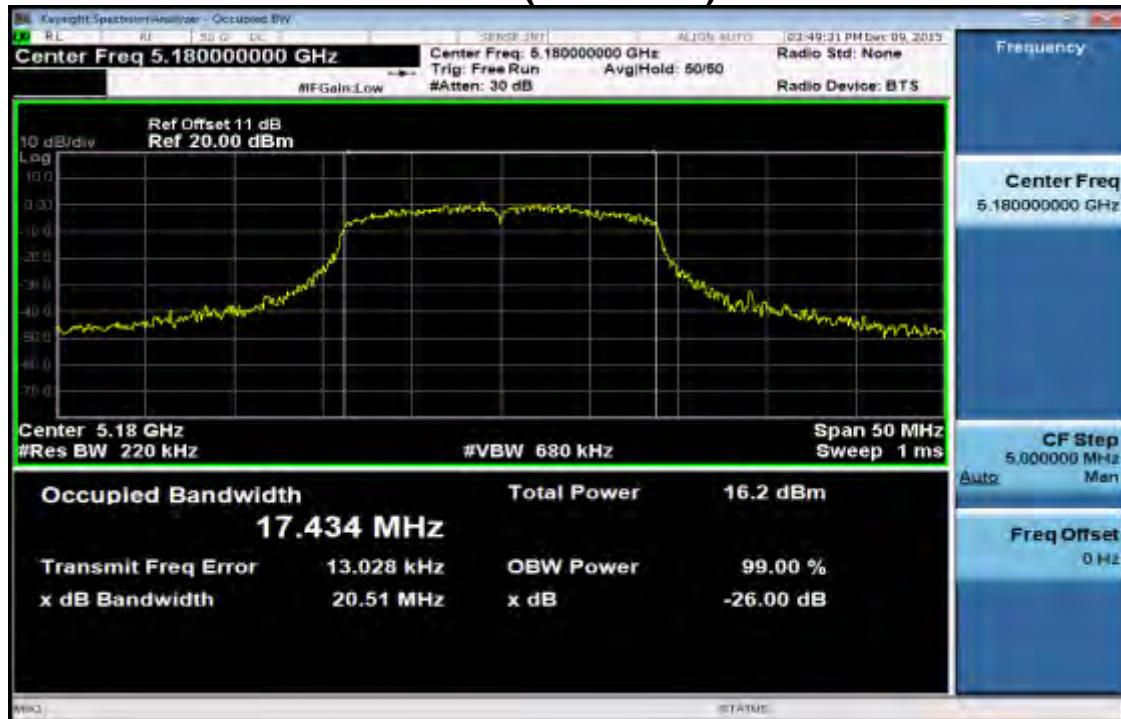
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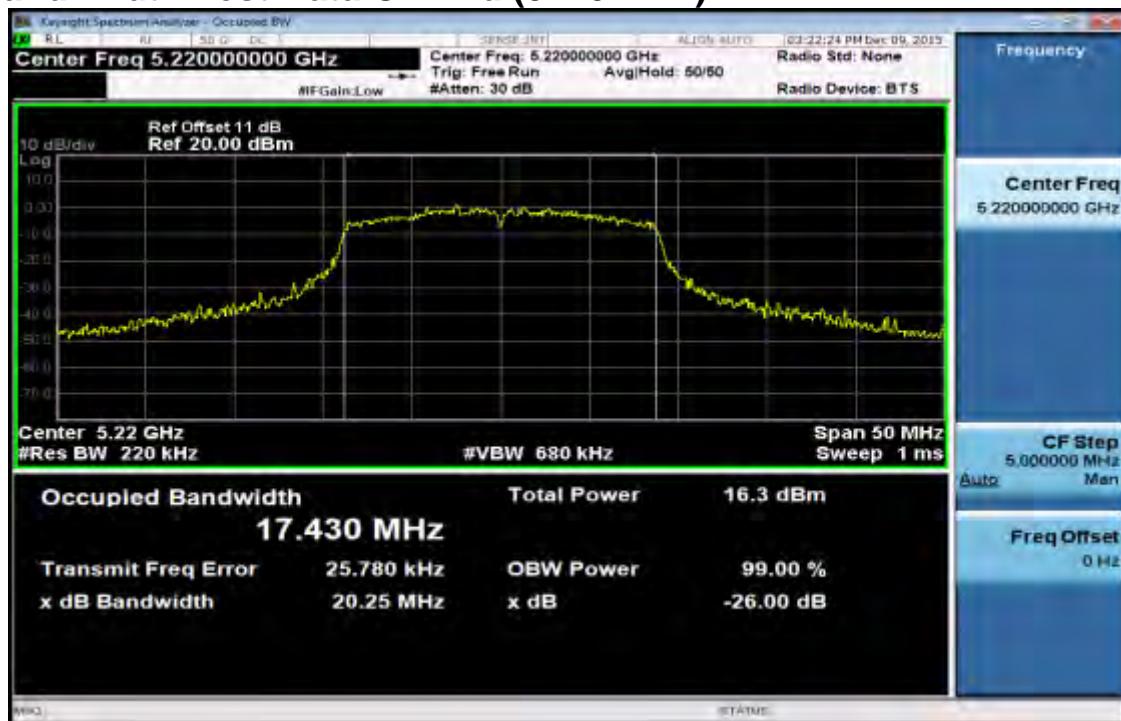
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802.11n HT20, 5150~5250 MHz 26dB Band Width Test Data CH-Low (5180 MHz)



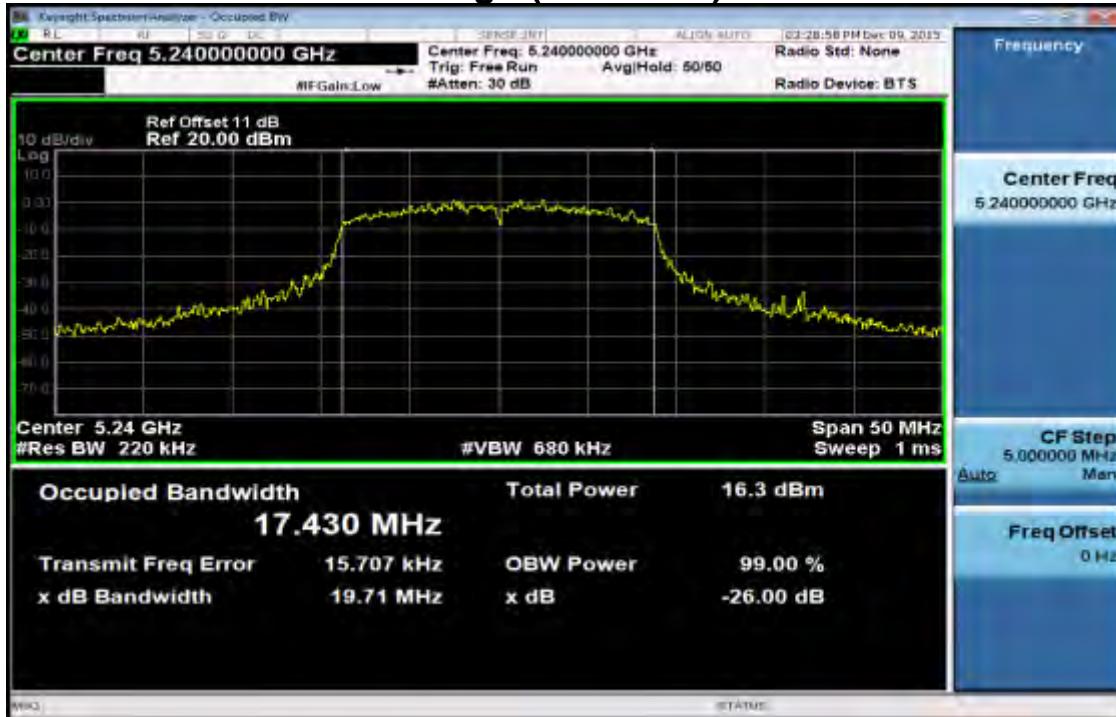
26dB Band Width Test Data CH-Mid (5220 MHz)



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

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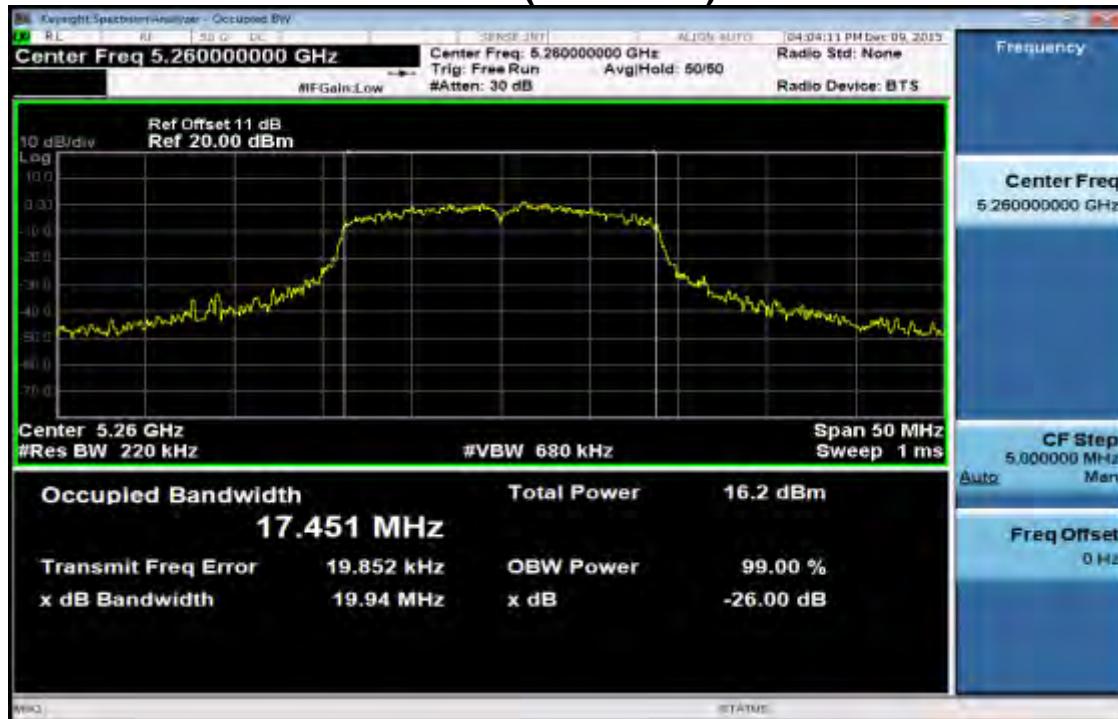
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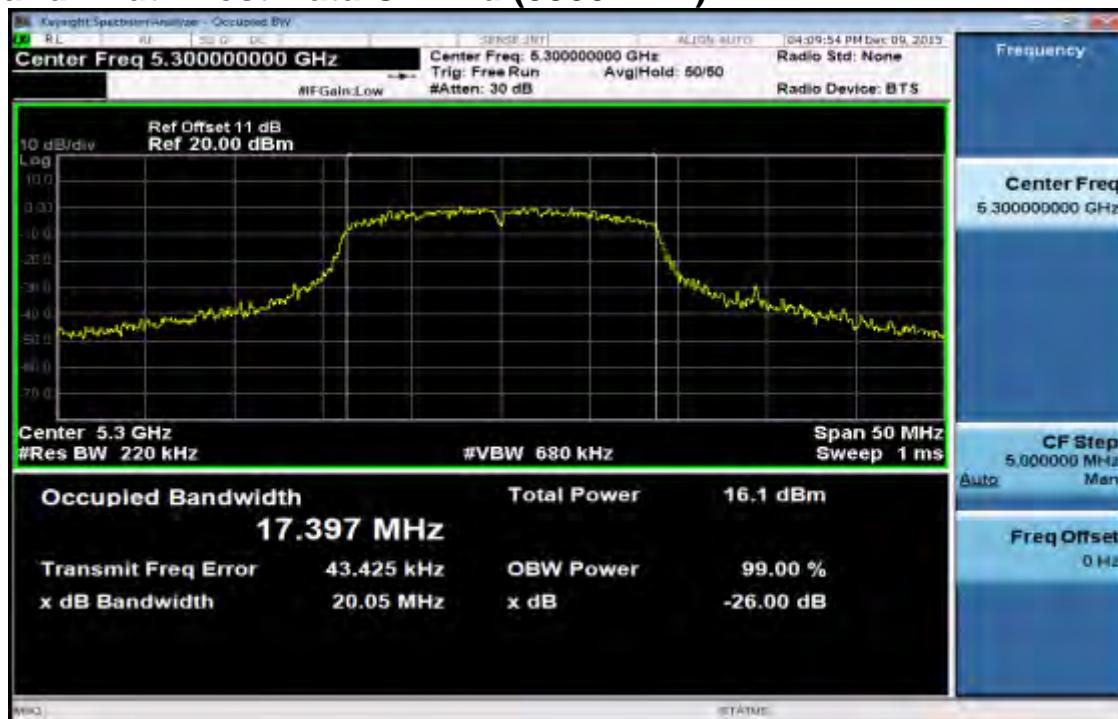
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802.11n HT20, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5260 MHz)



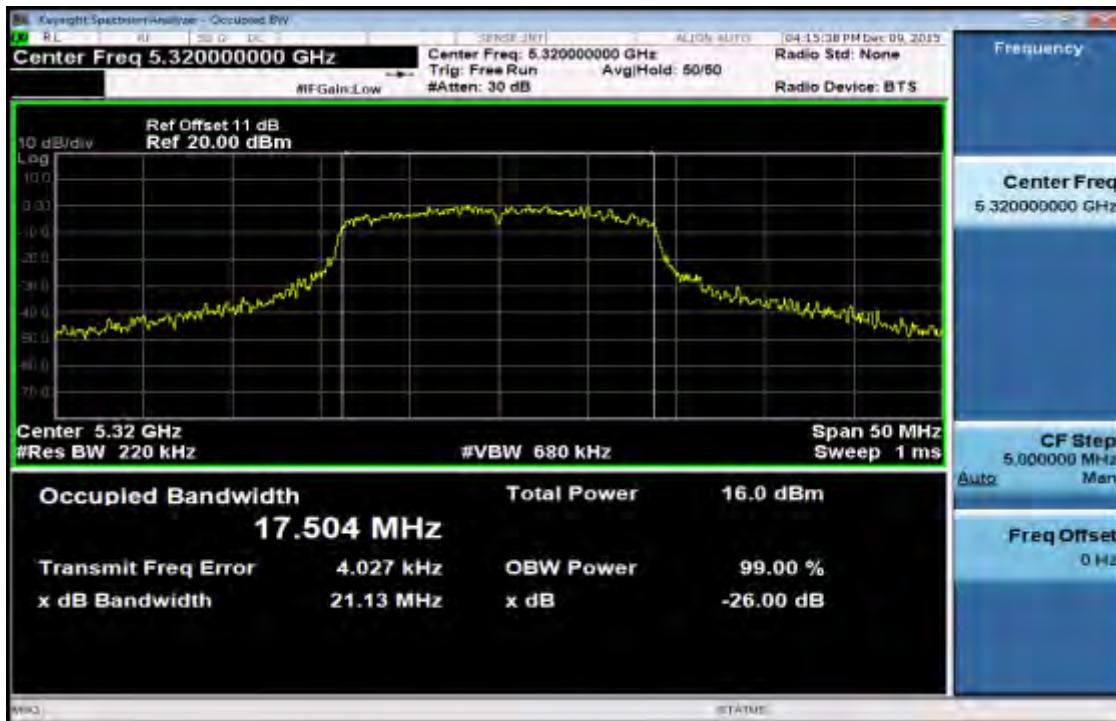
26dB Band Width Test Data CH-Mid (5300 MHz)



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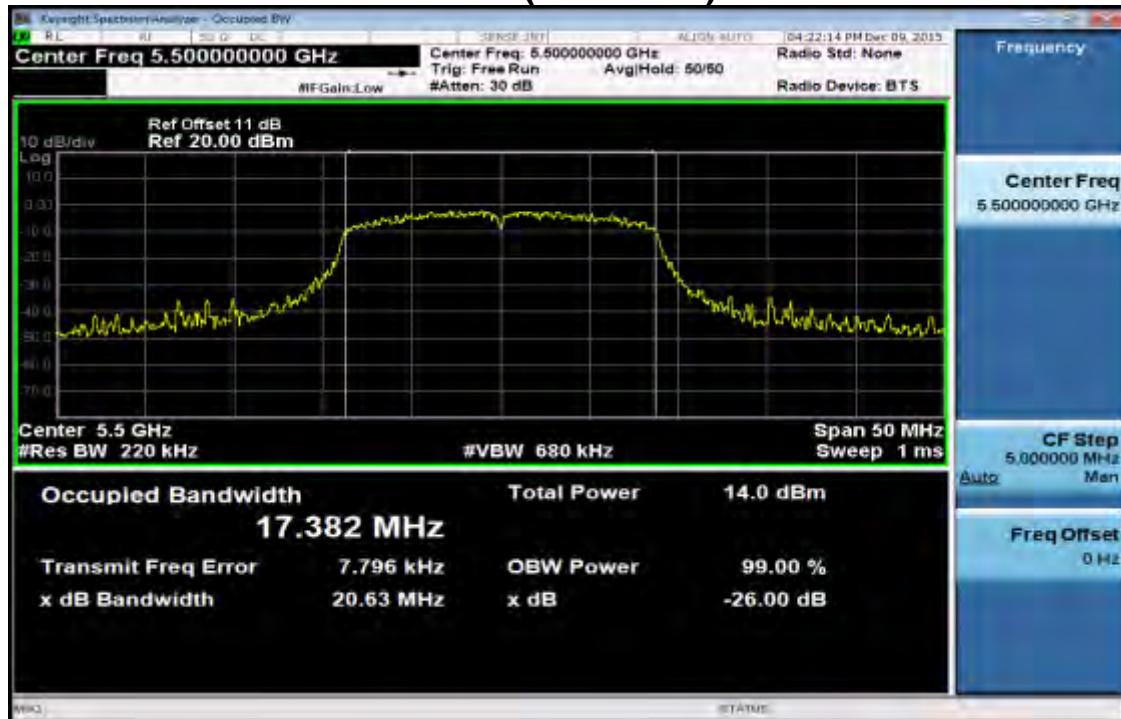
26dB Band Width Test Data CH-High (5320 MHz)

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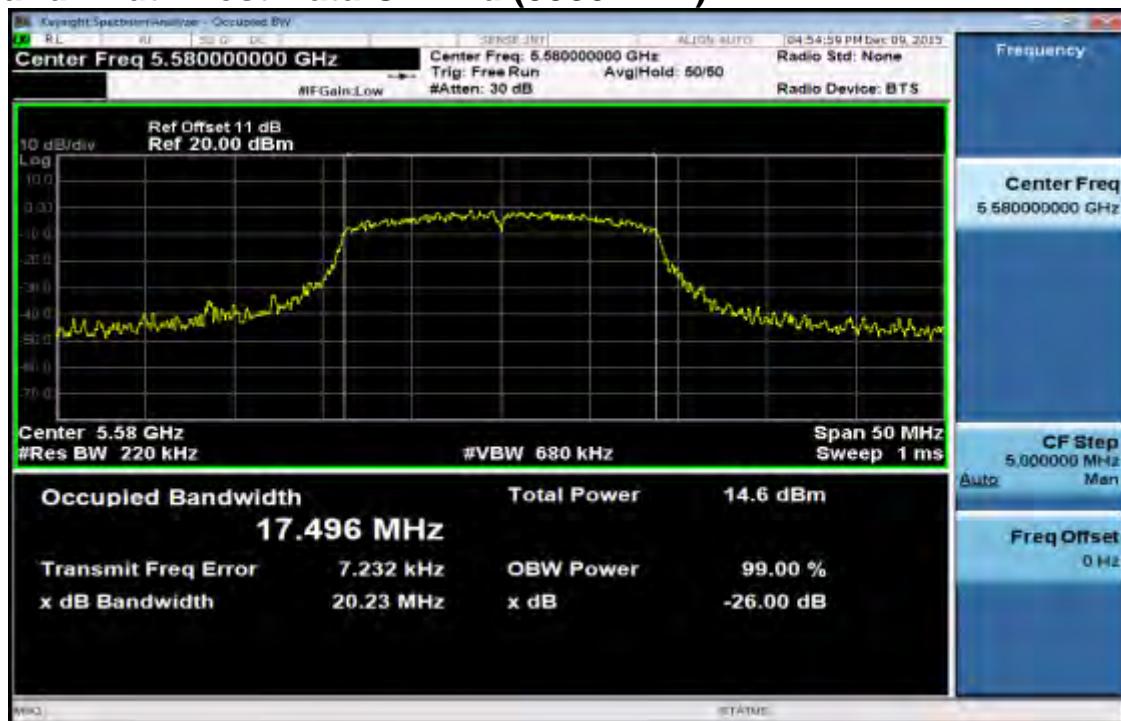
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802.11n HT20, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5500 MHz)



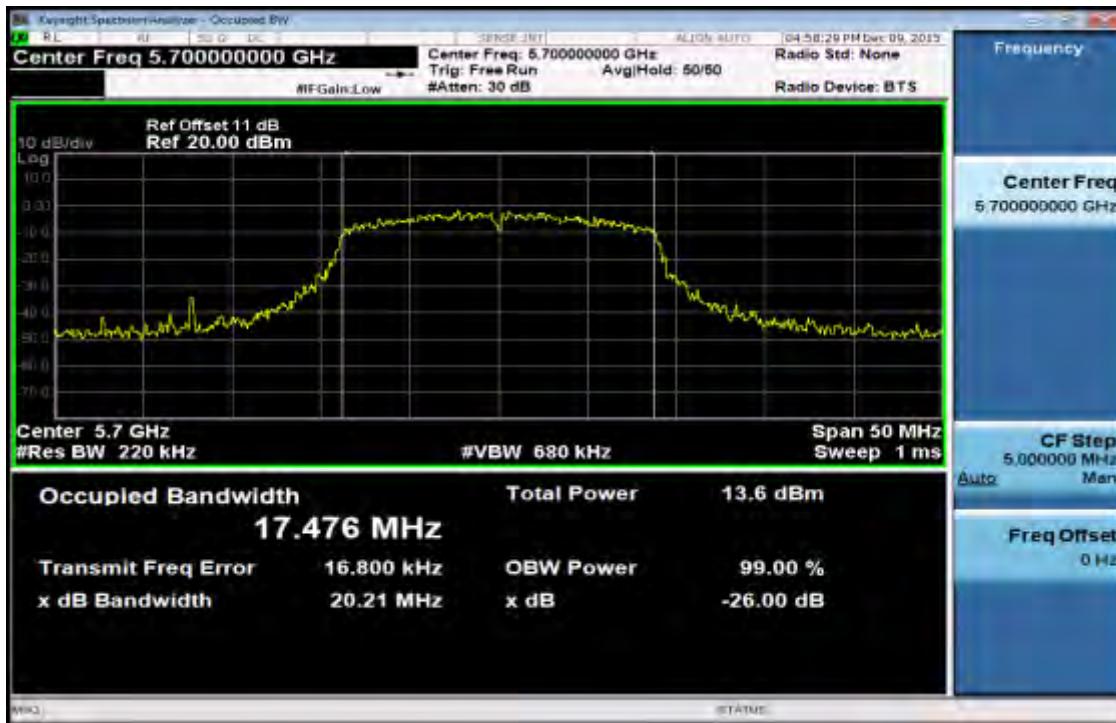
26dB Band Width Test Data CH-Mid (5580 MHz)



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

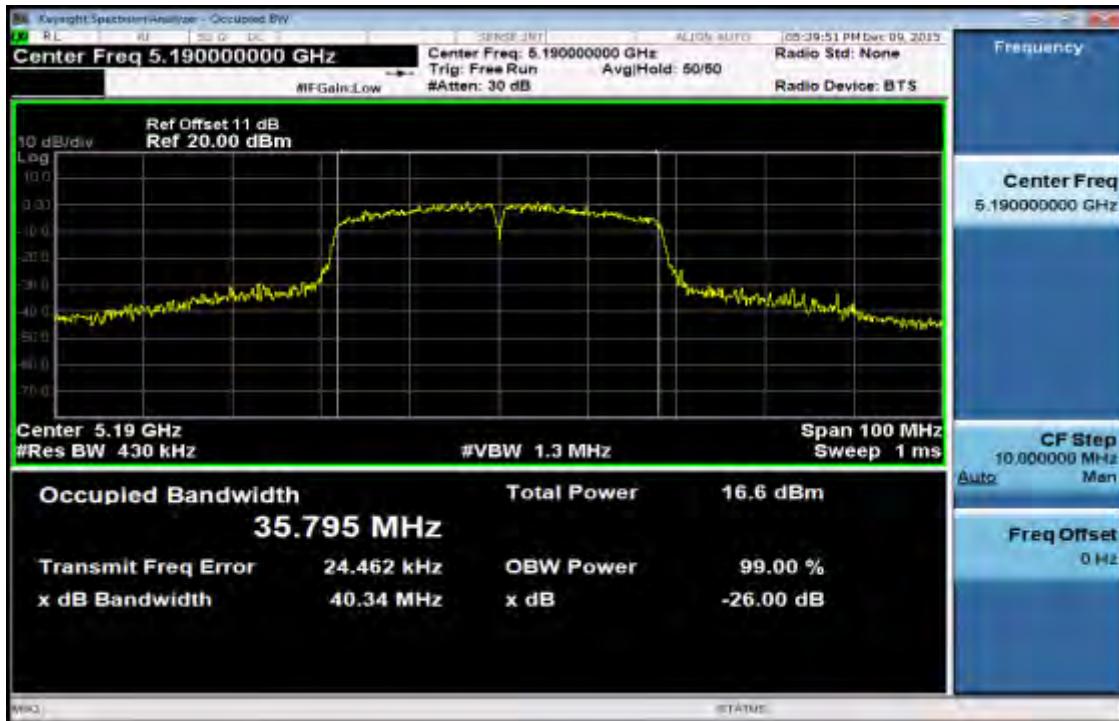
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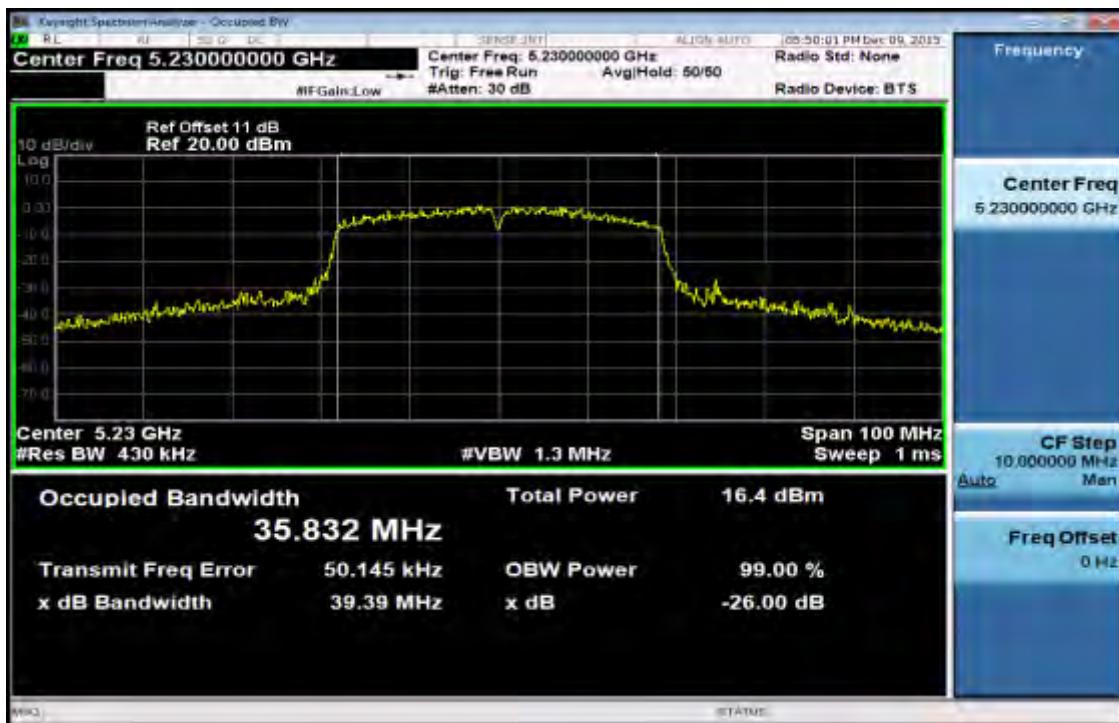
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802.11n HT40, 5150~5250 MHz

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



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



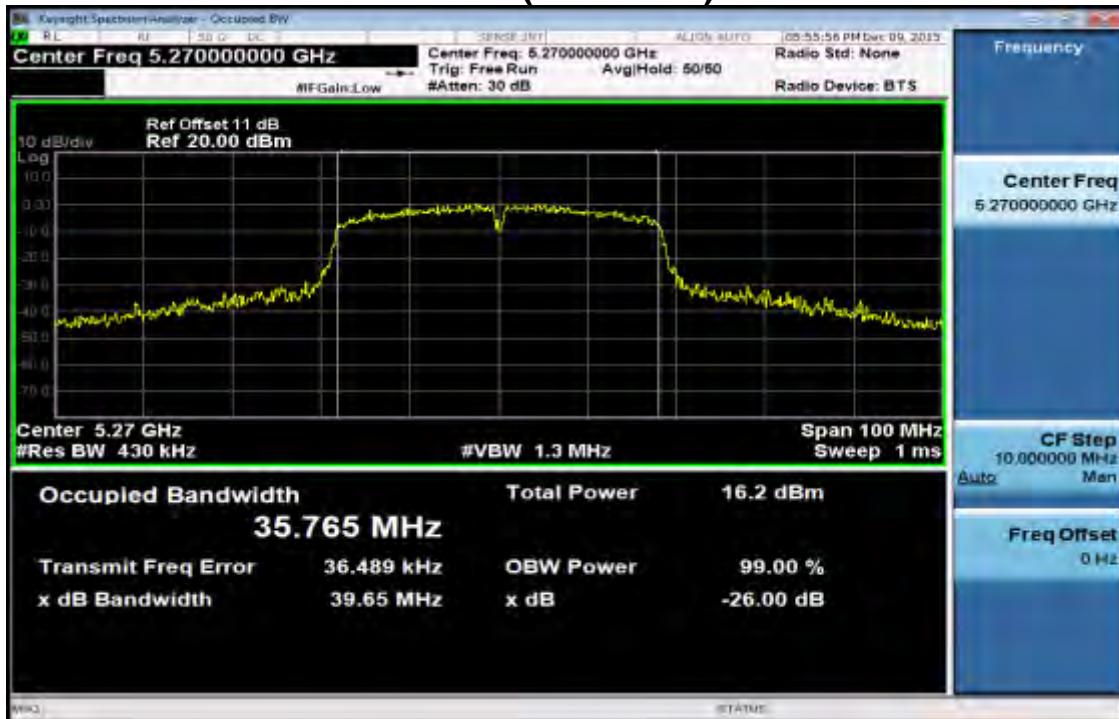
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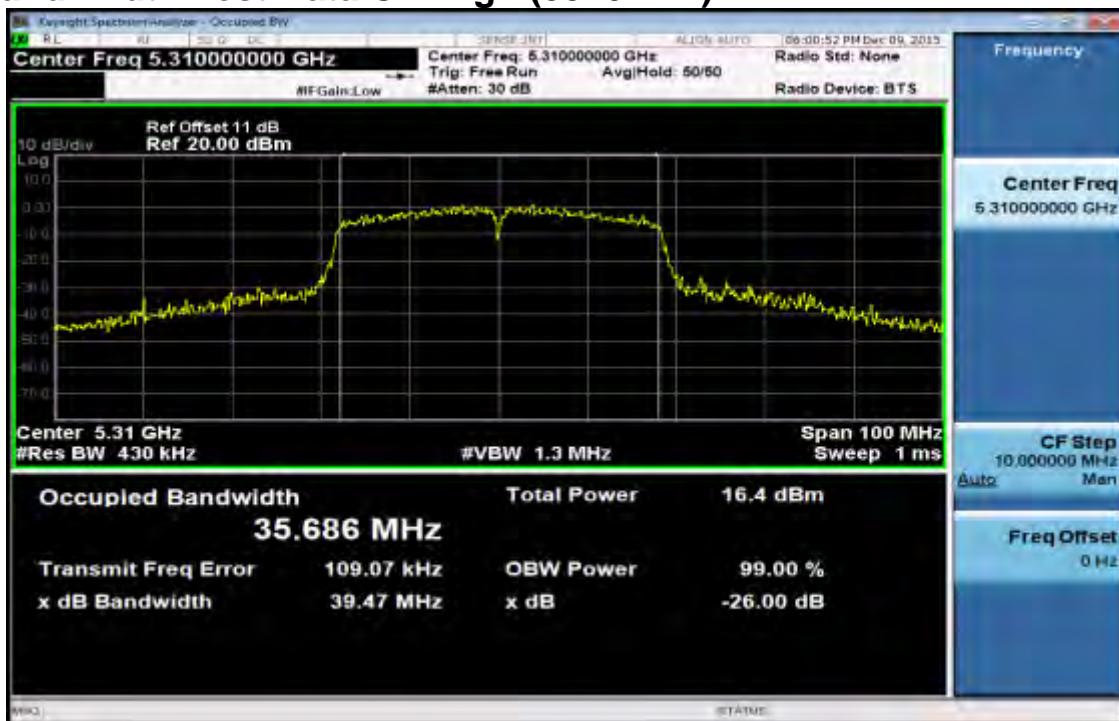
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802.11n HT40, 5250~5350 MHz 26dB Band Width Test Data CH-Low (5270 MHz)



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

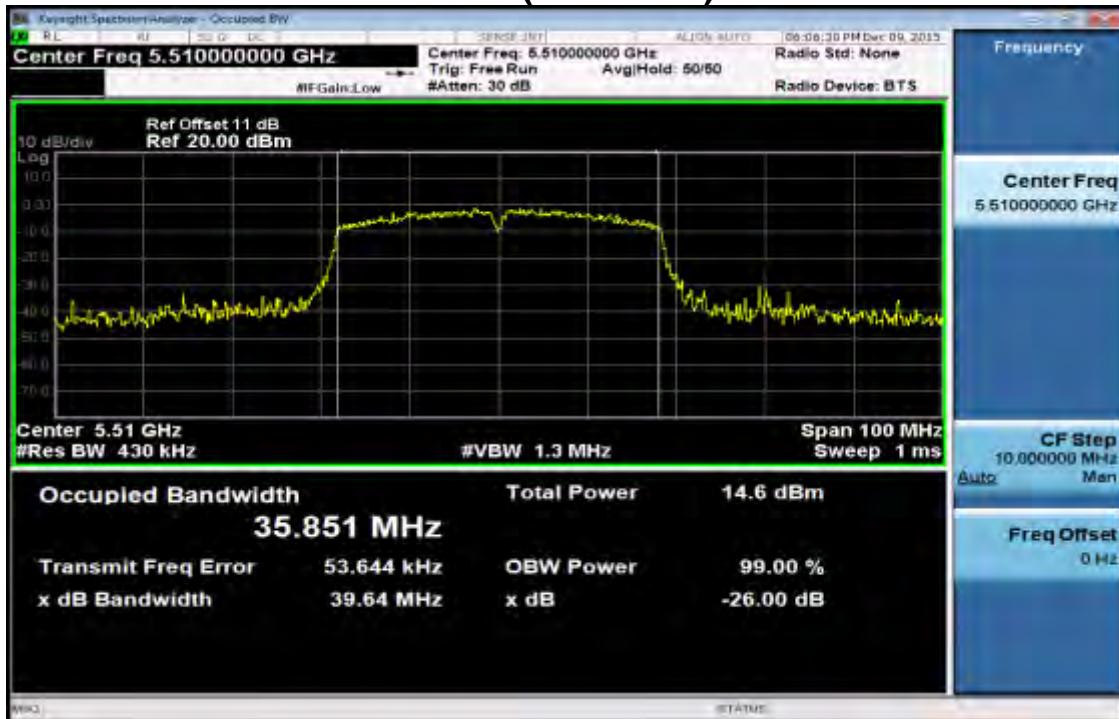


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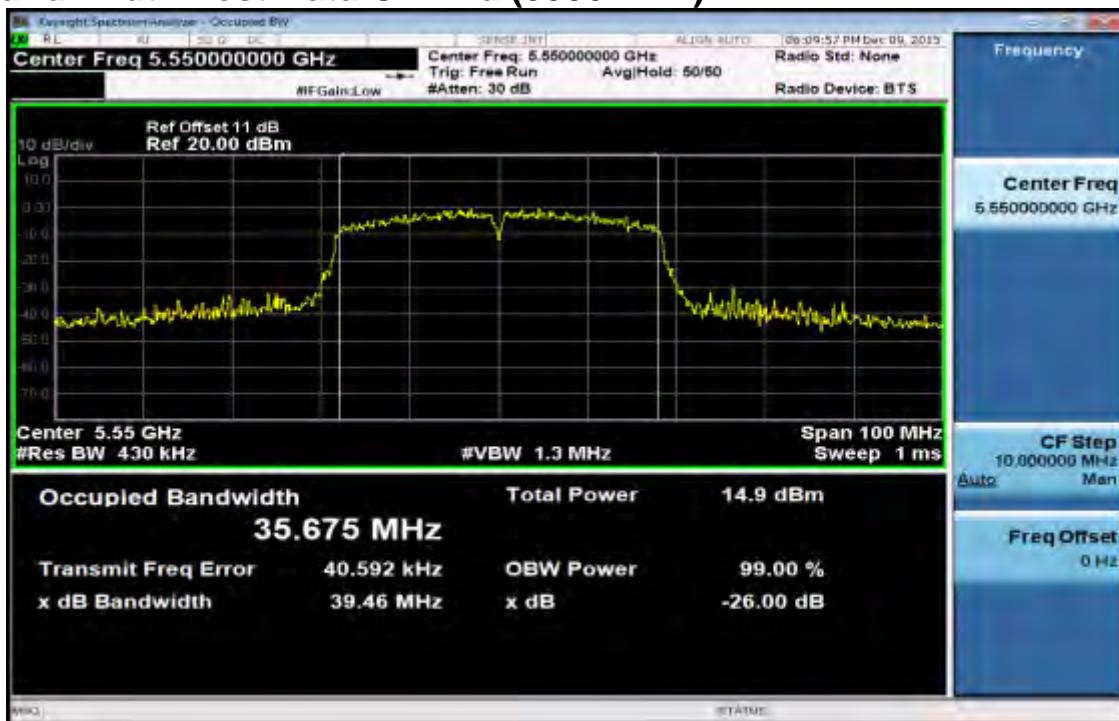
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802.11n HT40, 5470~5725 MHz 26dB Band Width Test Data CH-Low (5510 MHz)



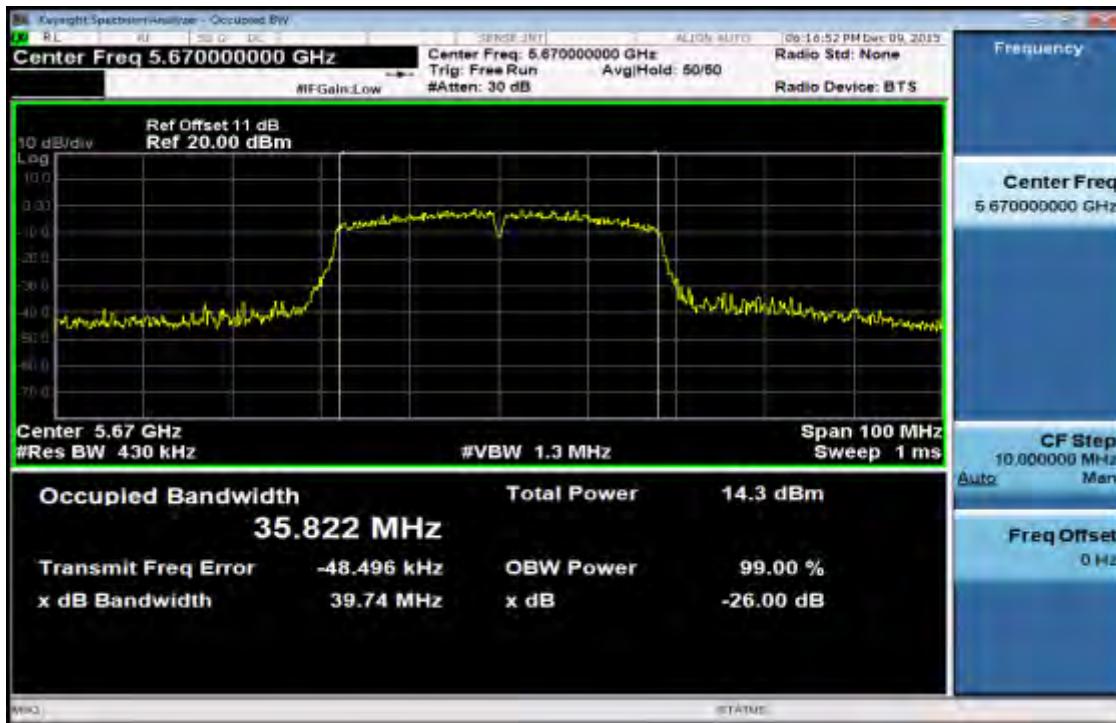
26dB Band Width Test Data CH-Mid (5550 MHz)



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

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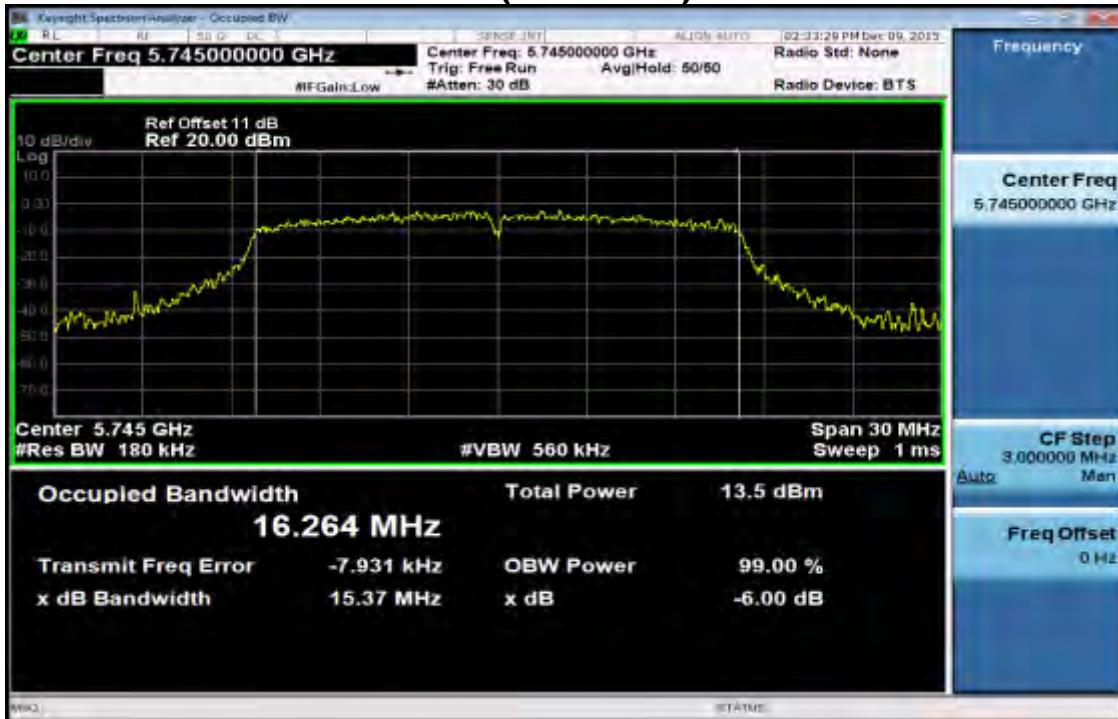
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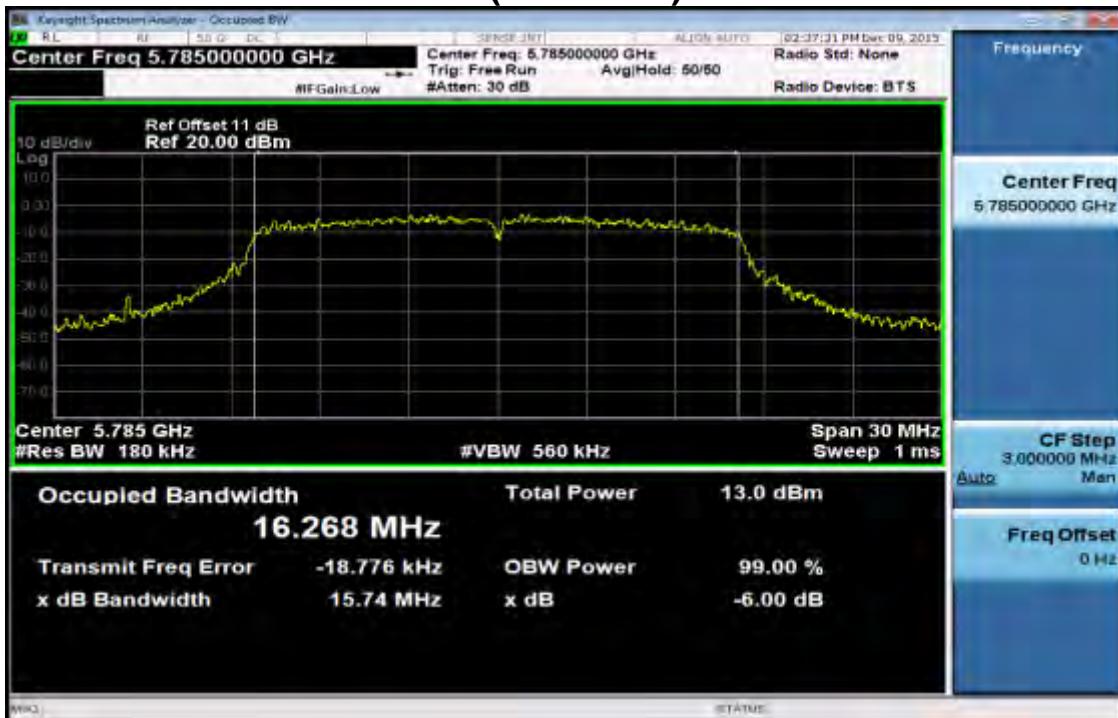
6dB Band Width

802.11a, 5725~5850 MHz

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



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



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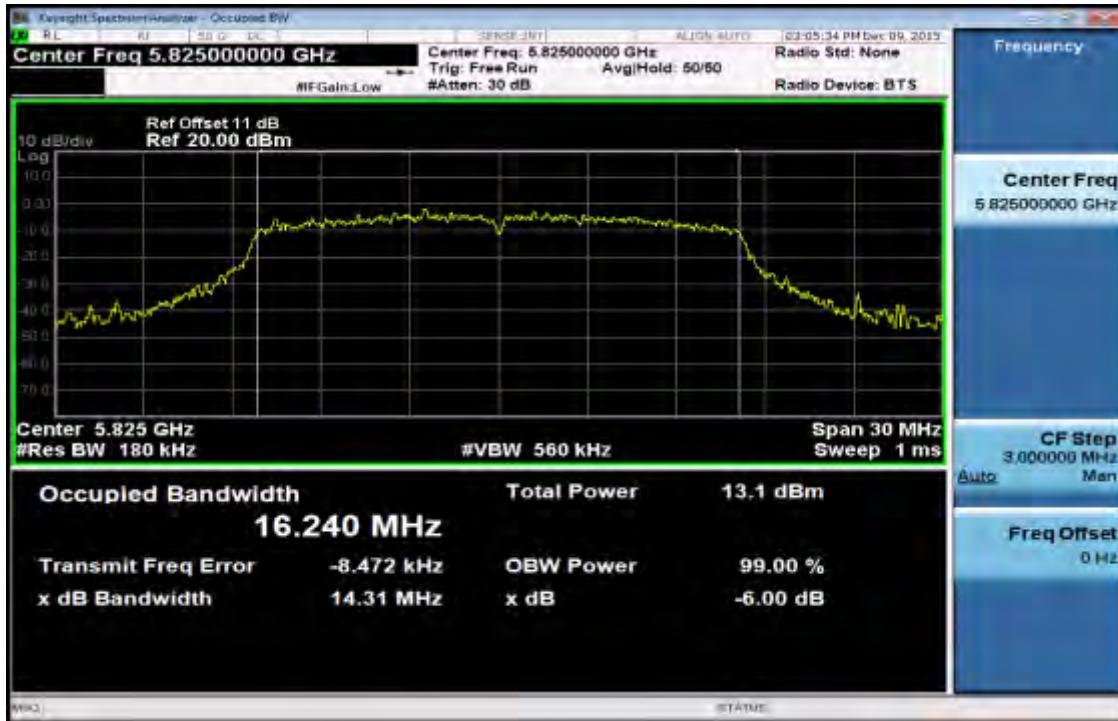
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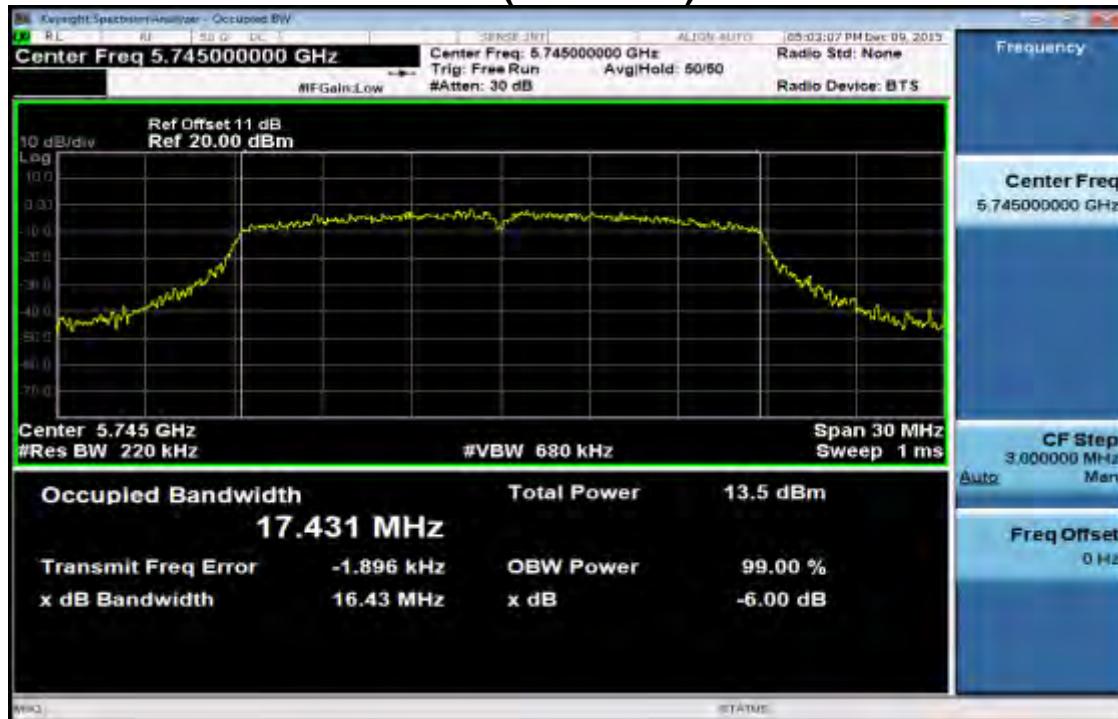
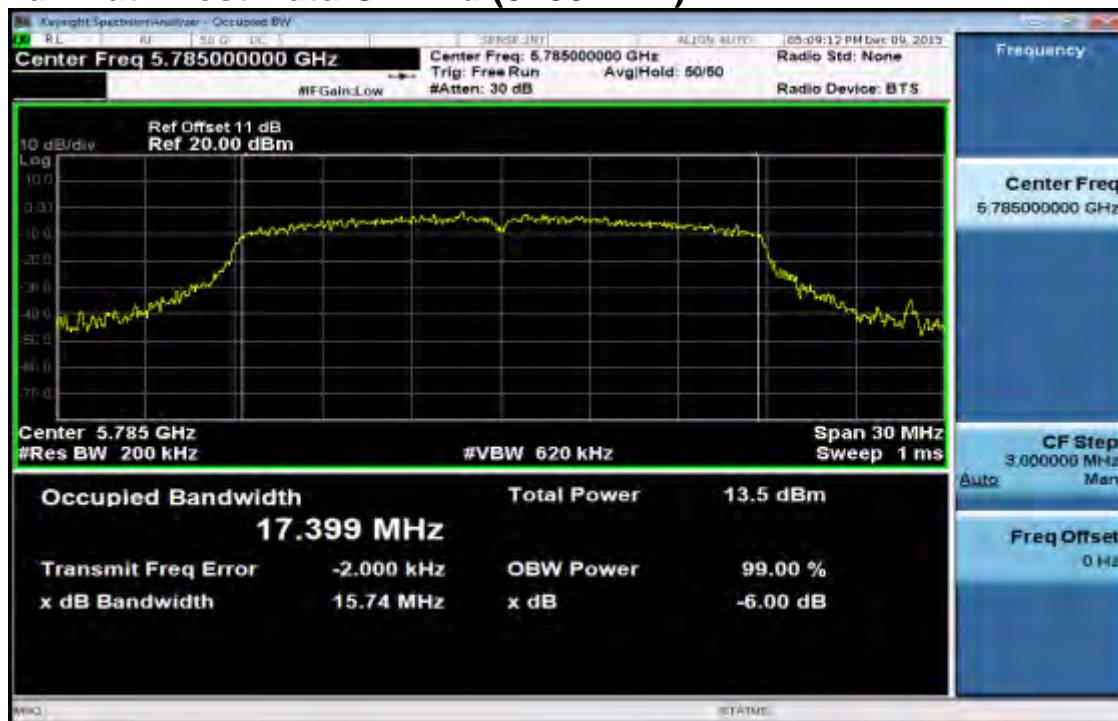
6dB Band Width Test Data CH-High (5825 MHz)



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**802.11n_HT20, 5725~5850 MHz
6dB Band Width Test Data CH-Low (5745 MHz)****6dB Band Width Test Data CH-Mid (5785 MHz)**

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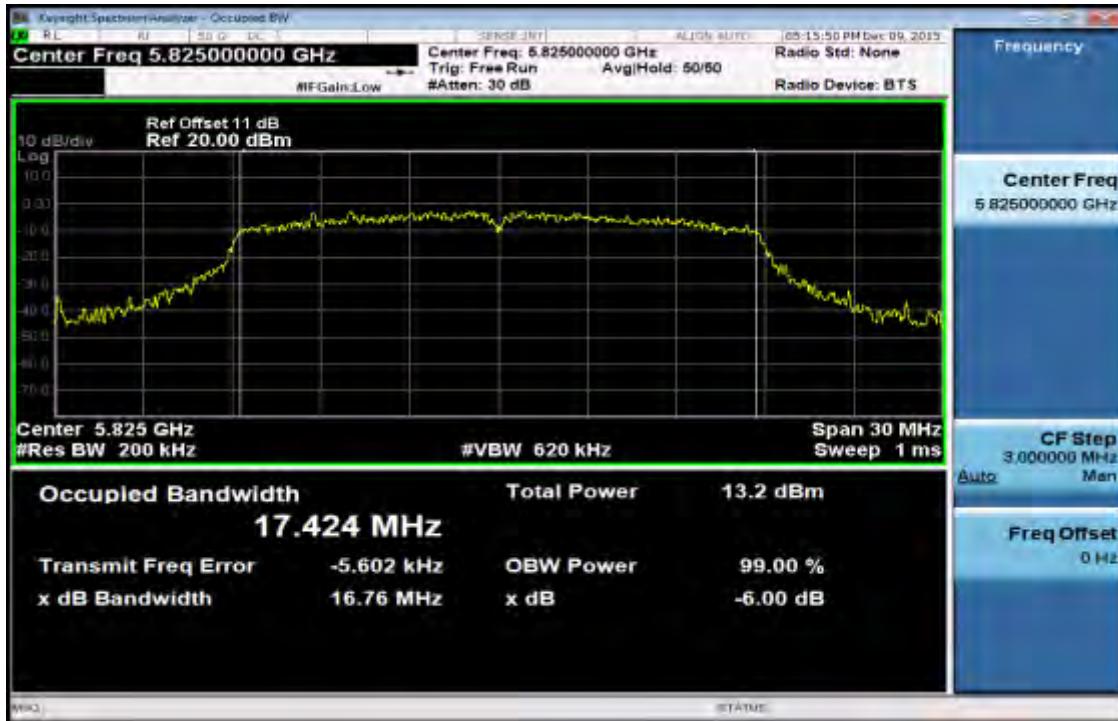
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6dB Band Width Test Data CH-High (5825 MHz)

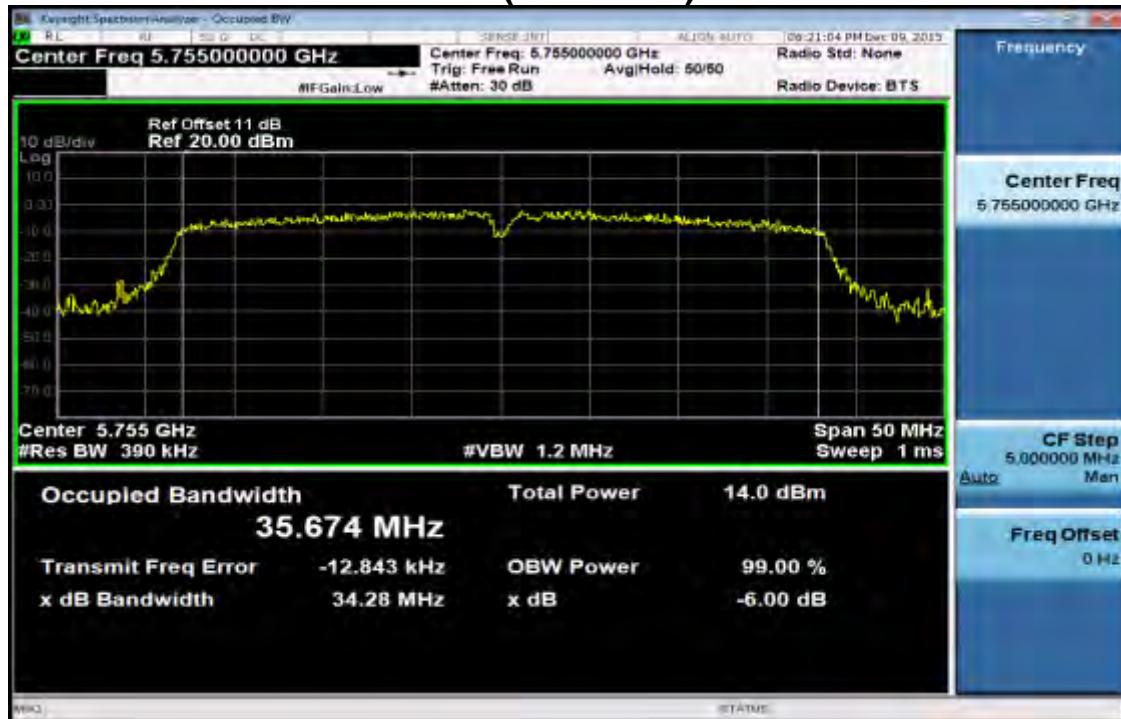


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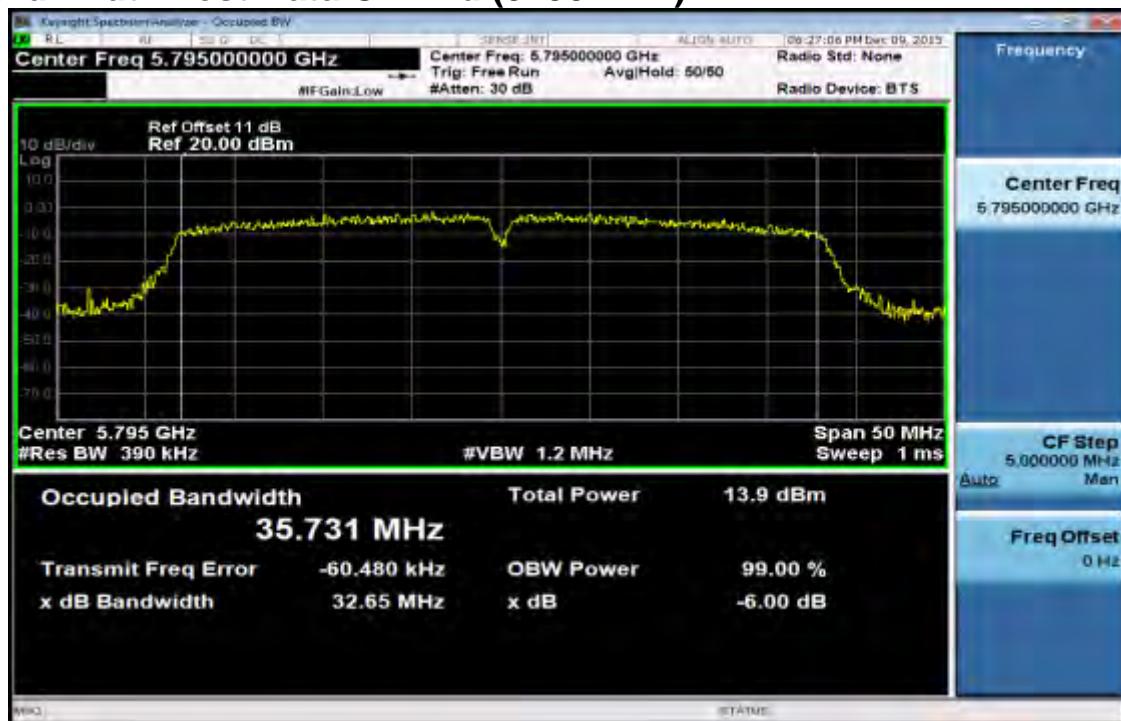
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802.11n_HT40, 5725~5850 MHz 6dB Band Width Test Data CH-Low (5755 MHz)



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



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9. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

FCC

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

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

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 $10 \log(1/\text{duty cycle})$.
6. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.

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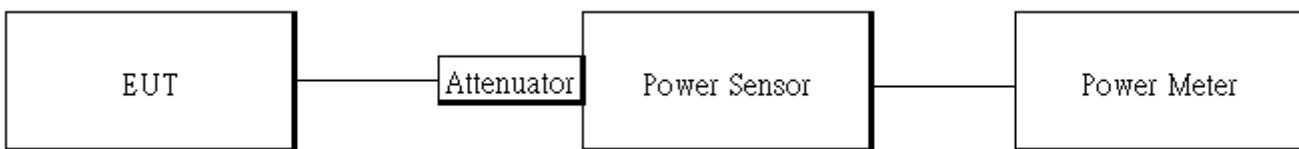
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9.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315049	06/23/2015	06/22/2016
Coaxial Cable 30cm	WOKEN	00100A1F1A1 95C	RF01	12/12/2014	12/11/2015
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2014	12/11/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

9.4 Test Set-up



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9.5 Measurement Result

Conducted output power

802.11a_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.12	12.942	23.98	PASS
44	5220	10.97	12.503	23.98	PASS
48	5240	10.95	12.445	23.98	PASS
52	5260	10.51	11.246	23.98 or 11+10log(B) 23.81	PASS
60	5300	10.65	11.614	23.98 or 11+10log(B) 23.98	PASS
64	5320	10.48	11.169	23.98 or 11+10log(B) 23.96	PASS
100	5500	9.13	8.185	23.98 or 11+10log(B) 23.79	PASS
116	5580	9.49	8.892	23.98 or 11+10log(B) 23.85	PASS
140	5700	8.71	7.430	23.98 or 11+10log(B) 23.84	PASS
149	5745	8.69	7.396	30	PASS
157	5785	8.47	7.031	30	PASS
165	5825	8.15	6.531	30	PASS

802.11n_HT20_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	11.10	12.882	23.98	PASS
44	5220	11.50	14.125	23.98	PASS
48	5240	11.49	14.093	23.98	PASS
52	5260	10.69	11.722	23.98 or 11+10log(B) 23.73	PASS
60	5300	10.67	11.668	23.98 or 11+10log(B) 23.70	PASS
64	5320	10.66	11.641	23.98 or 11+10log(B) 23.68	PASS
100	5500	9.31	8.531	23.98 or 11+10log(B) 23.75	PASS
116	5580	9.54	8.995	23.98 or 11+10log(B) 23.73	PASS
140	5700	8.82	7.621	23.98 or 11+10log(B) 23.67	PASS
149	5745	8.79	7.568	30	PASS
157	5785	8.57	7.194	30	PASS
165	5825	8.29	6.745	30	PASS

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802.11n_HT40_Main

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT	
38	5190	10.50	11.220	23.98	PASS	
46	5230	10.31	10.740	23.98	PASS	
54	5270	10.05	10.116	23.98 or 11+10log(B)	26.62	PASS
62	5310	10.12	10.280	23.98 or 11+10log(B)	26.55	PASS
102	5510	10.65	11.614	23.98 or 11+10log(B)	26.56	PASS
110	5550	10.95	12.445	23.98 or 11+10log(B)	26.62	PASS
134	5670	9.68	9.290	23.98 or 11+10log(B)	26.58	PASS
151	5755	7.21	5.260	30	PASS	
159	5795	6.77	4.753	30	PASS	

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10. PEAK POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

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

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

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10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

For U-NII-3 Band:

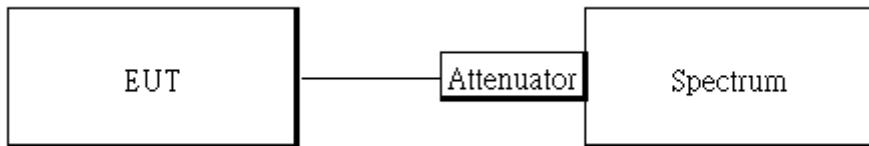
Set RBW=500 kHz, VBW \geq 3RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)

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.

10.3 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2015	01/01/2016
Attenuator	Mini-Circuit	BW-S10W2+	002	01/02/2015	01/01/2016

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	-4.46	11.00	17	-21.46
5220	-7.45	11.00	17	-24.45
5240	-4.95	11.00	17	-21.95
5260	-5.82	11.00	11	-16.82
5300	-3.77	11.00	11	-14.77
5320	-4.68	11.00	11	-15.68
5500	-9.33	11.00	11	-20.33
5580	-8.81	11.00	11	-19.81
5700	-6.06	11.00	11	-17.06
5745	2.00	11.00	30	-28.00
5785	2.21	11.00	30	-27.79
5825	1.53	11.00	30	-28.47

POWER DENSITY 802.11n HT20 MODE				
Frequency (MHz)	PPSD (dBm)	Offset	Limit (dBm)	Margin (dB)
5180	-7.51	11.00	17	-24.51
5220	-7.92	11.00	17	-24.92
5240	-7.53	11.00	17	-24.53
5260	-8.89	11.00	11	-19.89
5300	-4.93	11.00	11	-15.93
5320	-7.93	11.00	11	-18.93
5500	-9.63	11.00	11	-20.63
5580	-7.34	11.00	11	-18.34
5700	-7.76	11.00	11	-18.76
5745	2.50	11.00	30	-27.50
5785	2.13	11.00	30	-27.87
5825	1.85	11.00	30	-28.15

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POWER DENSITY 802.11n HT40 MODE				
Frequency	PPSD	Offset	Limit	Margin
5190	-11.5	11.00	17	-28.50
5230	-15.04	11.00	17	-32.04
5270	-17.42	11.00	11	-28.42
5310	-13.45	11.00	11	-24.45
5510	-15.14	11.00	11	-26.14
5550	-10.02	11.00	11	-21.02
5670	-12.77	11.00	11	-23.77
5755	-0.27	11.00	30	-30.27
5795	-1.02	11.00	30	-31.02

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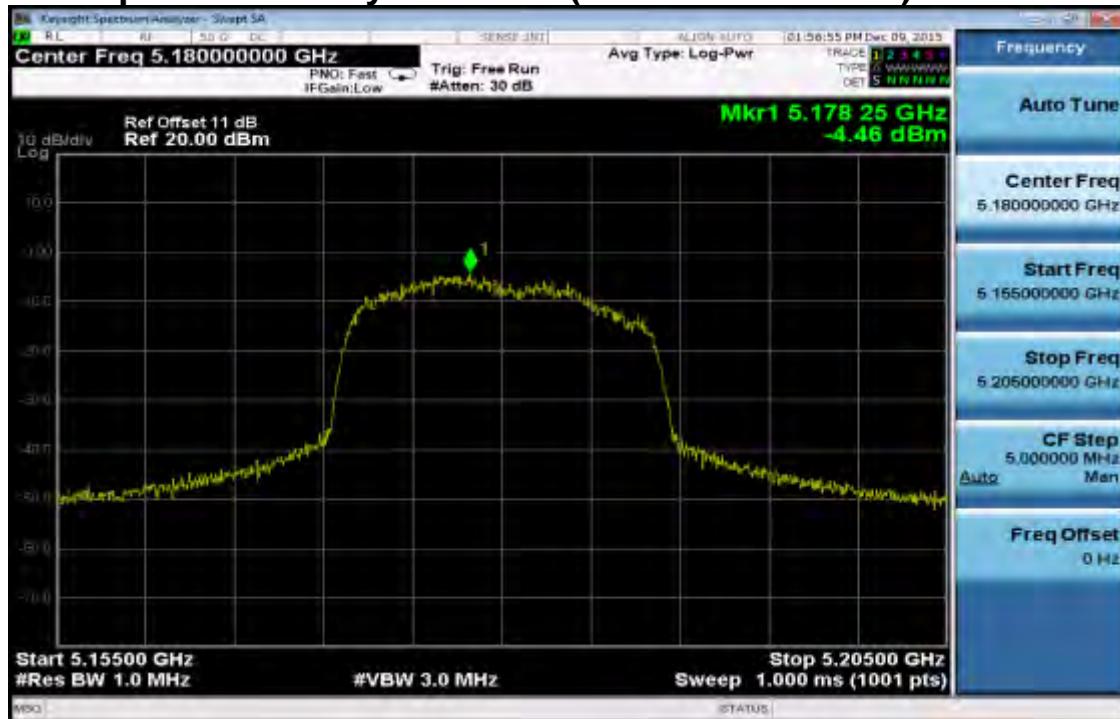
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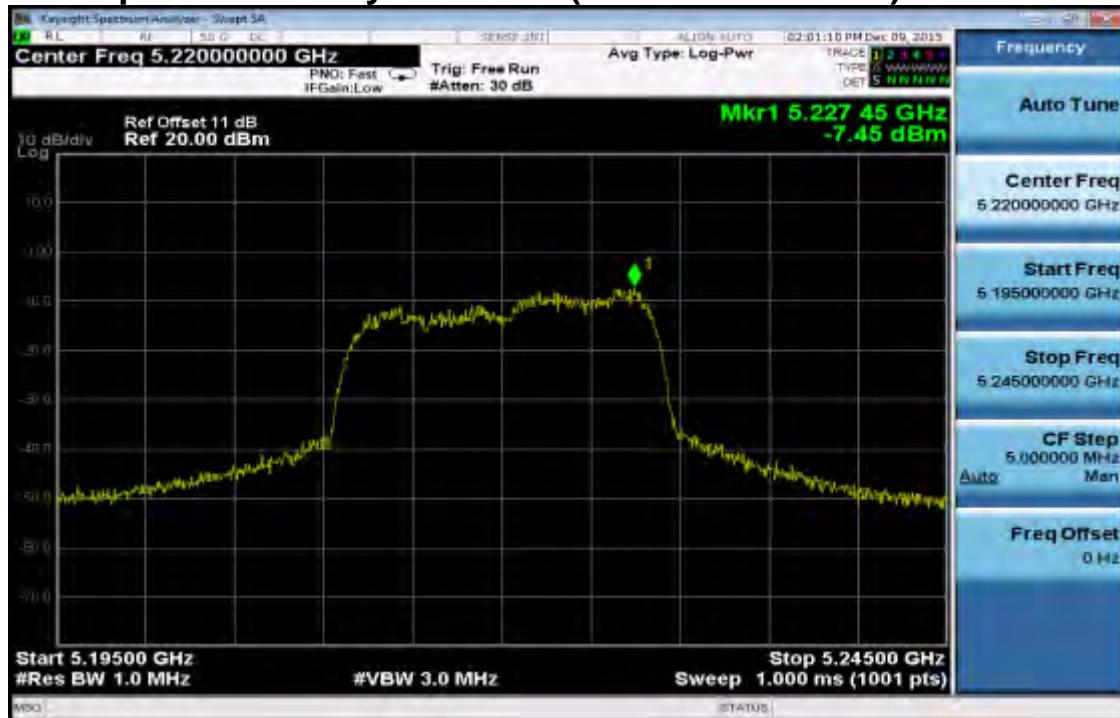
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802.11a 5150~5250 MHz

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



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



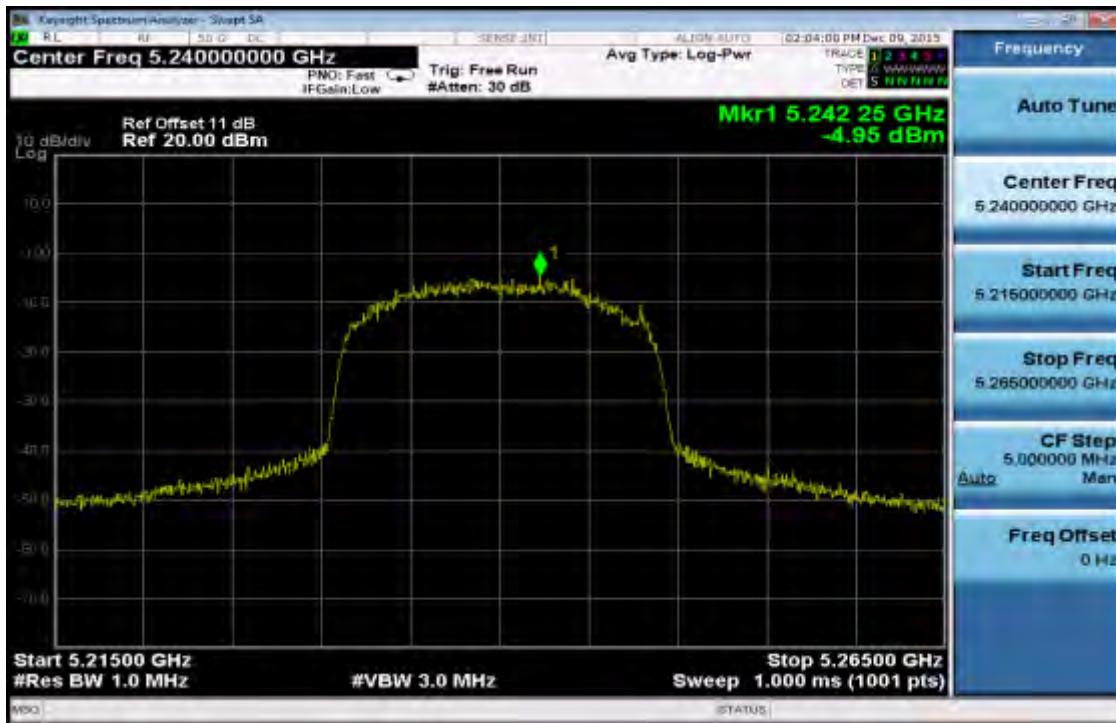
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Peak Power Spectral Density Data Plot (CH High 5240 MHz)



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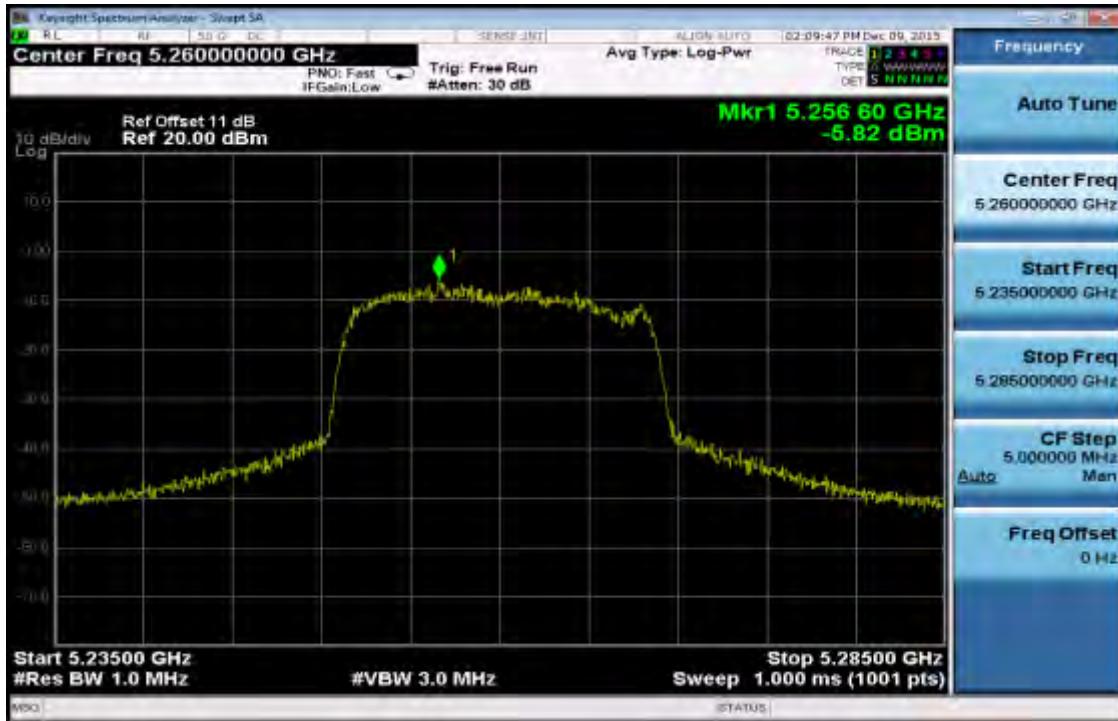
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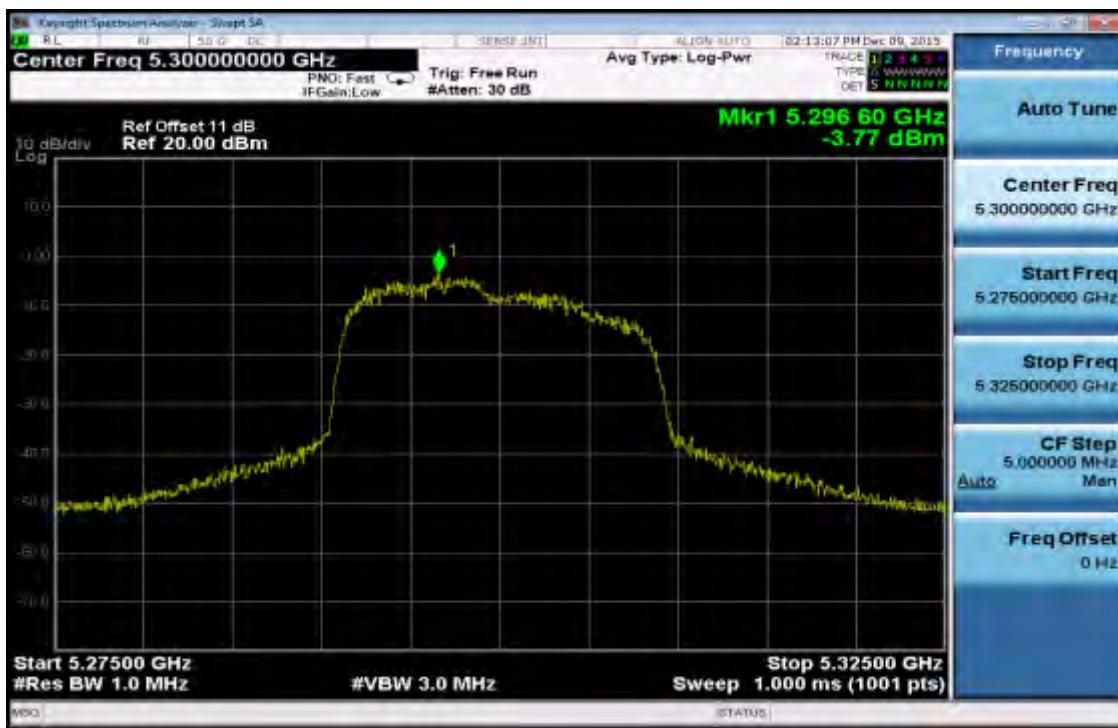
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802.11a 5250~5350 MHz

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



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



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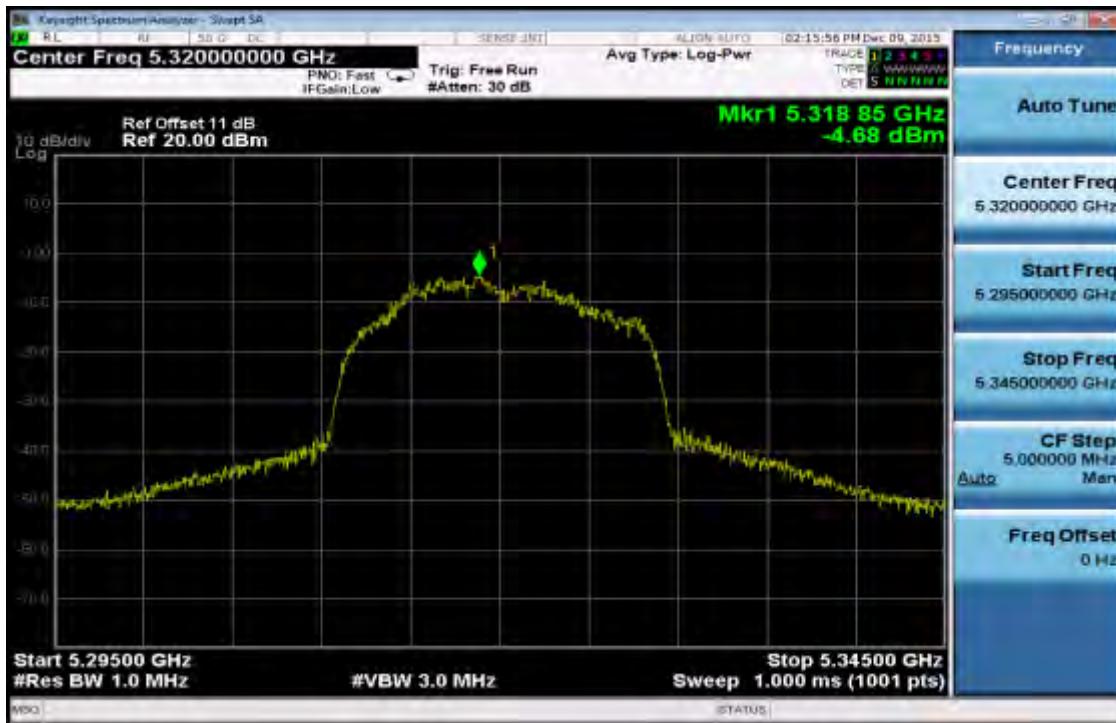
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Peak Power Spectral Density Data Plot (CH High 5320 MHz)



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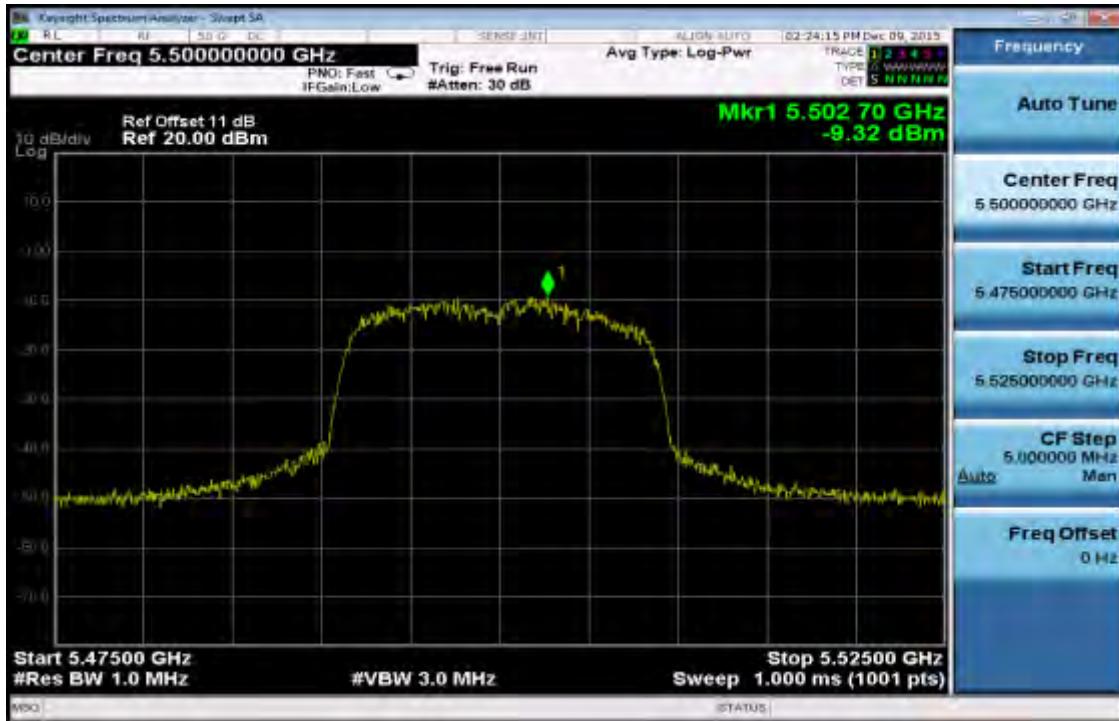
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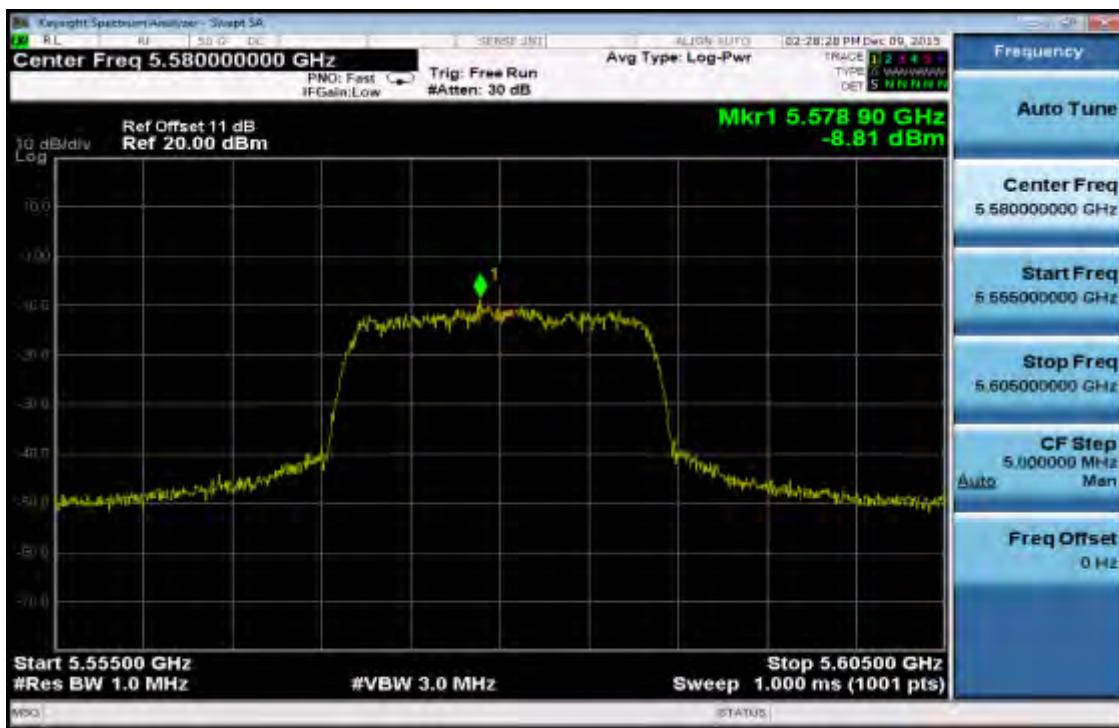
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802.11a 5470~5725 MHz

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



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



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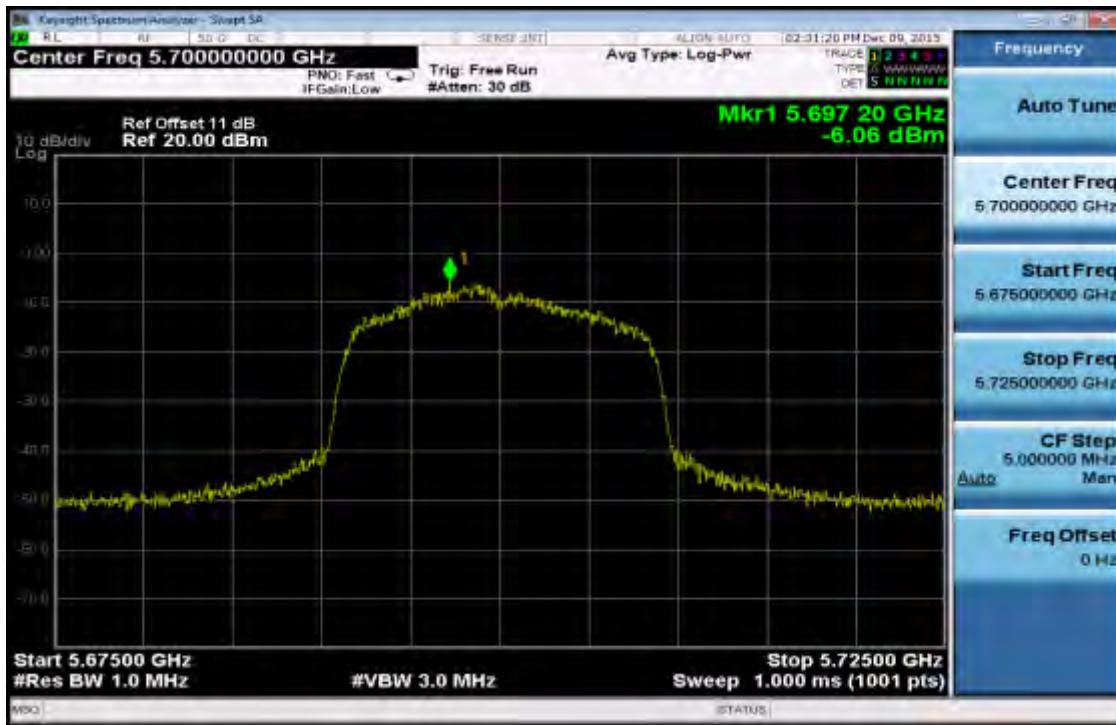
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Peak Power Spectral Density Data Plot (CH High 5700 MHz)



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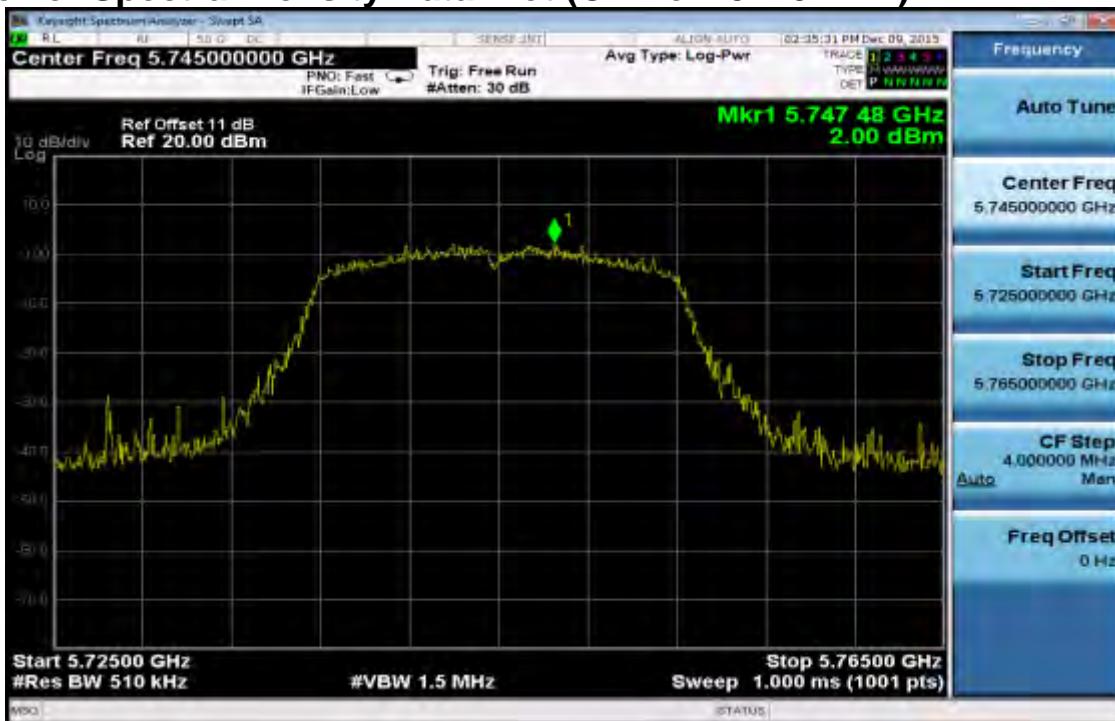
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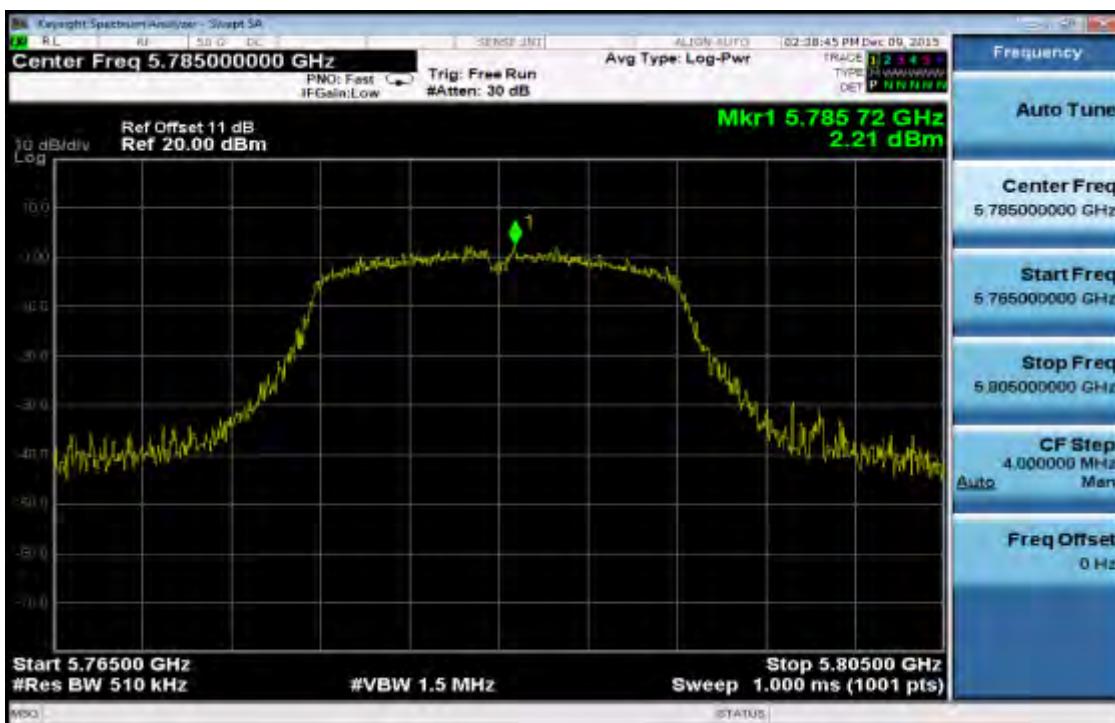
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802.11a 5725~5850 MHz

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



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



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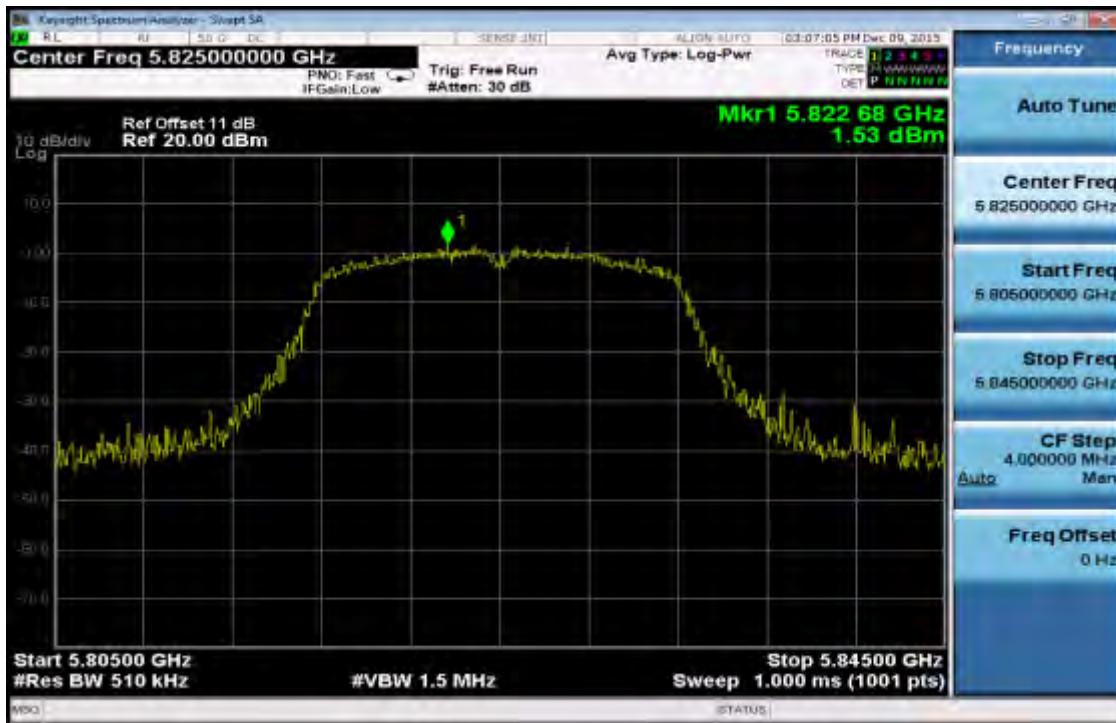
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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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802.11n HT20, 5150~5250 MHz

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



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



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



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



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



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



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802.11n HT20, 5470~5725 MHz**Peak Power Spectral Density Data Plot (CH Low 5500 MHz)****Peak Power Spectral Density Data Plot (CH Mid 5580MHz)**

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



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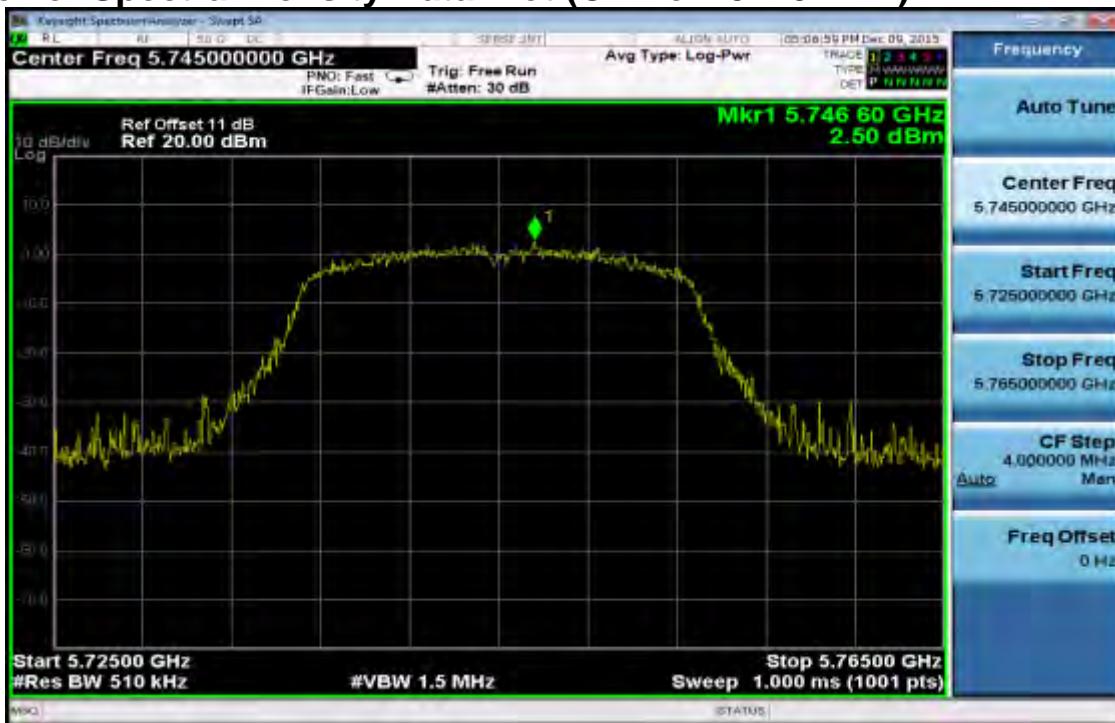
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802.11n HT20, 5725~5850 MHz

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



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



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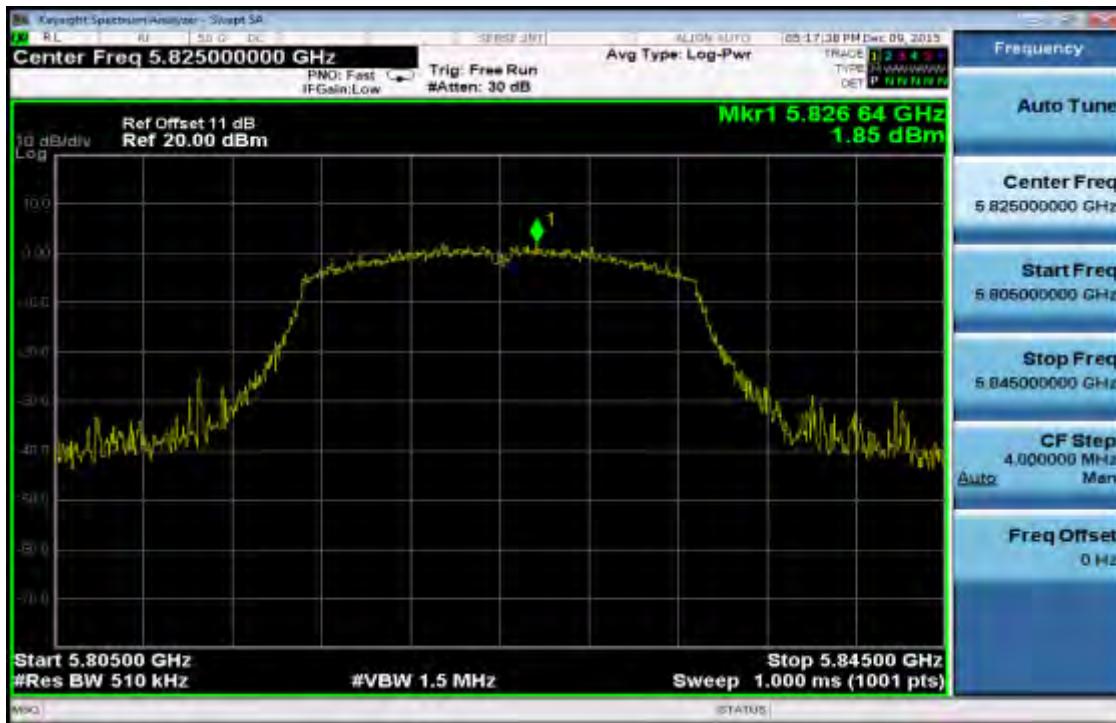
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Peak Power Spectral Density Data Plot (CH High 5825 MHz)



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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, 5250~5350 MHz

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



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



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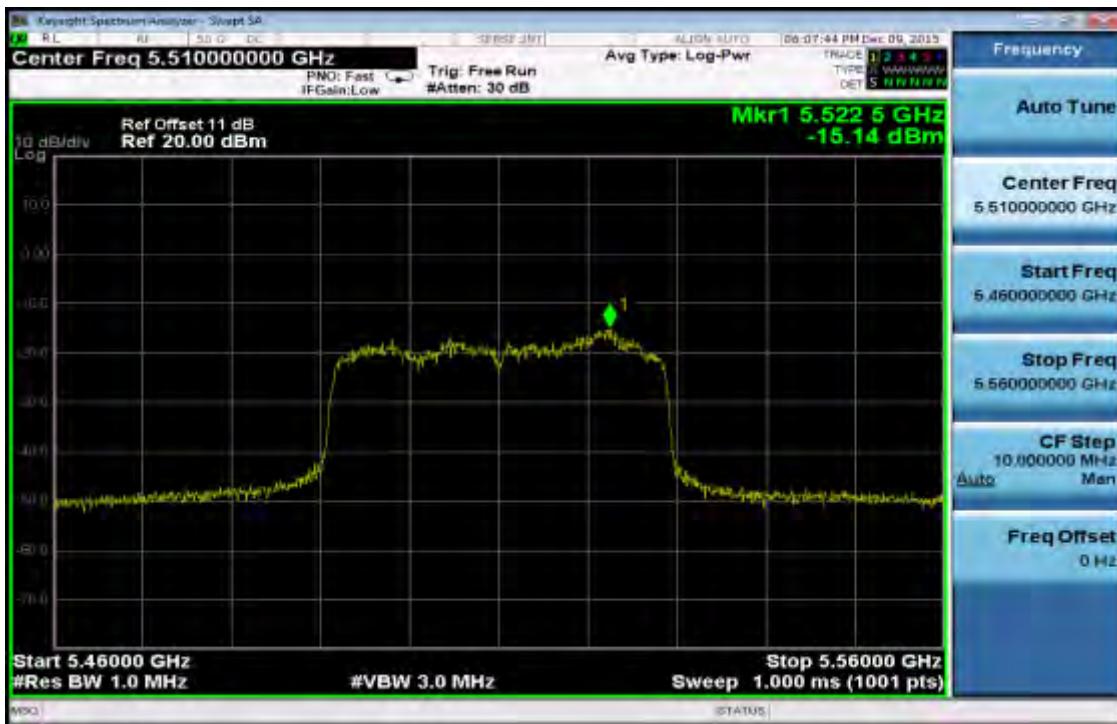
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802.11n HT40, 5470~5725 MHz Peak Power Spectral Density Data Plot (CH Low 5510 MHz)



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



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



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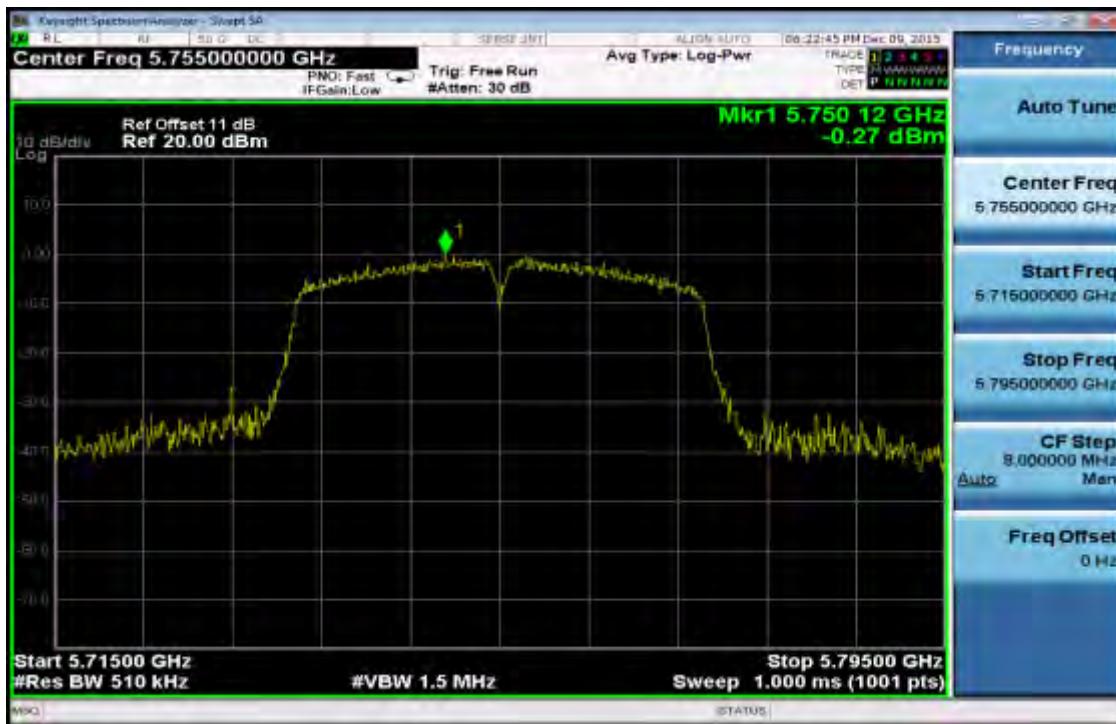
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802.11n HT40, 5725~5850 MHz Peak Power Spectral Density Data Plot (CH Low 5755 MHz)



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



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11. UNDESIRABLE RADIATED EMISSION MEASUREMENT1

11.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

APPLICABLE TO	LIMIT	
FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01	FIELD STRENGTH AT 3m	
	PK: 74 (dB μ V/m)	AV 54 (dB μ V/m)
APPLICABLE TO	EIRP LIMIT	FIELD STRENGTH AT 3m
15.407(b)(1)	RSS-247 §6.2.1 (2)	
15.407(b)(2)	RSS-247 §6.2.2 (2)	PK: -27 (dBm/MHz)
15.407(b)(3)	RSS-247 §6.2.3 (2)	PK: 68.3 (dB μ V/m)
15.407(b)(4)	RSS-247 §6.2.4 (4)	PK: -27 (dBm/MHz) PK: -17 (dBm/MHz)
		PK: 68.3 (dB μ V/m) PK: 78.2 (dB μ V/m)

EIRP = ((E*d)^2) / 30, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

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

Note:

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

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11.2 Measurement Equipment Used

SGS 966 Chamber No.C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/22/2015	12/23/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/24/2015	07/23/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC184045B	980135	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

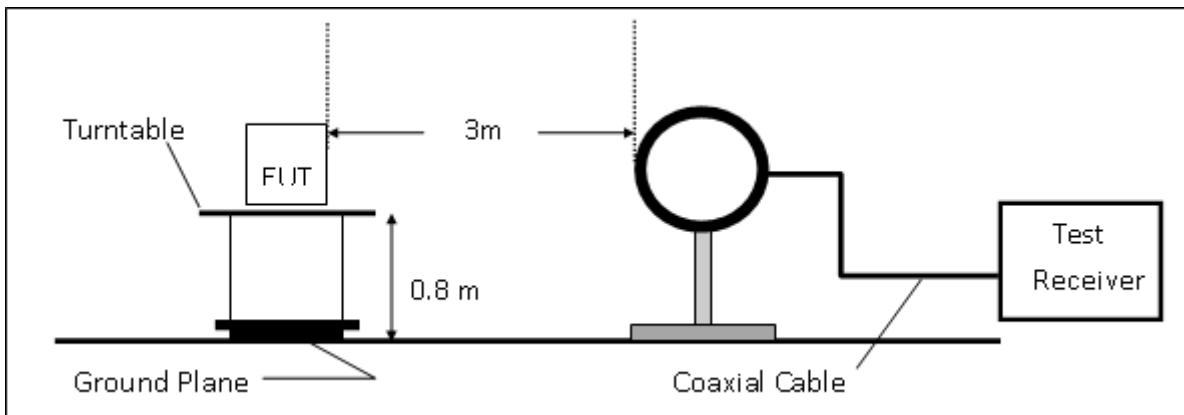
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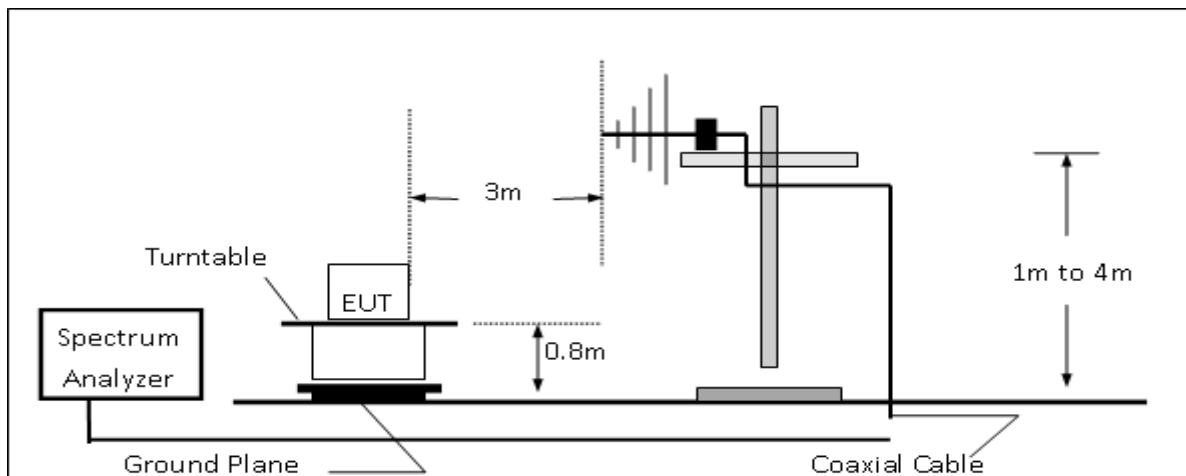
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11.3 Test SET-UP

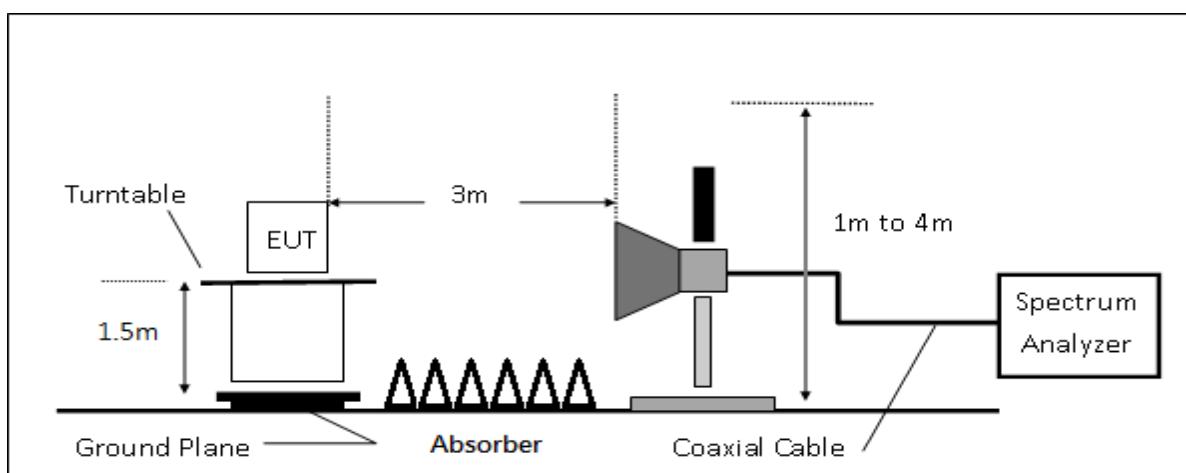
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
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 \geq 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(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/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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t (886-2) 2299-3279

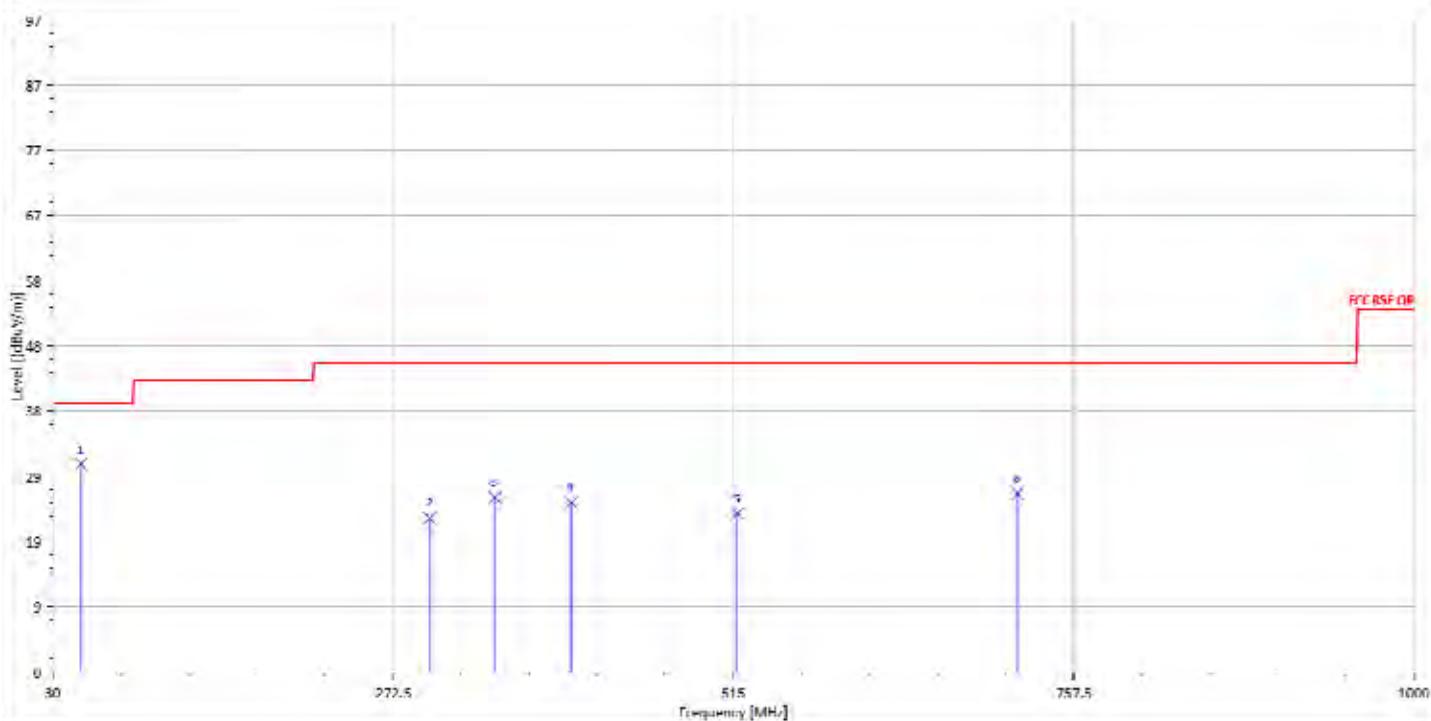
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Radiated Spurious Emission Measurement Result**Below 1GHz Worst-Case Data:****802.11a 5150~5250 MHz**

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
50.37	S	Peak	56.62	-25.65	30.97	40	-9.03
298.69	S	Peak	42.23	-19.27	22.96	46	-23.04
345.25	S	Peak	43.54	-17.54	26.00	46	-20.00
399.57	S	Peak	41.09	-15.88	25.21	46	-20.79
517.91	S	Peak	37.19	-13.60	23.59	46	-22.41
717.73	S	Peak	37.31	-10.77	26.54	46	-19.46

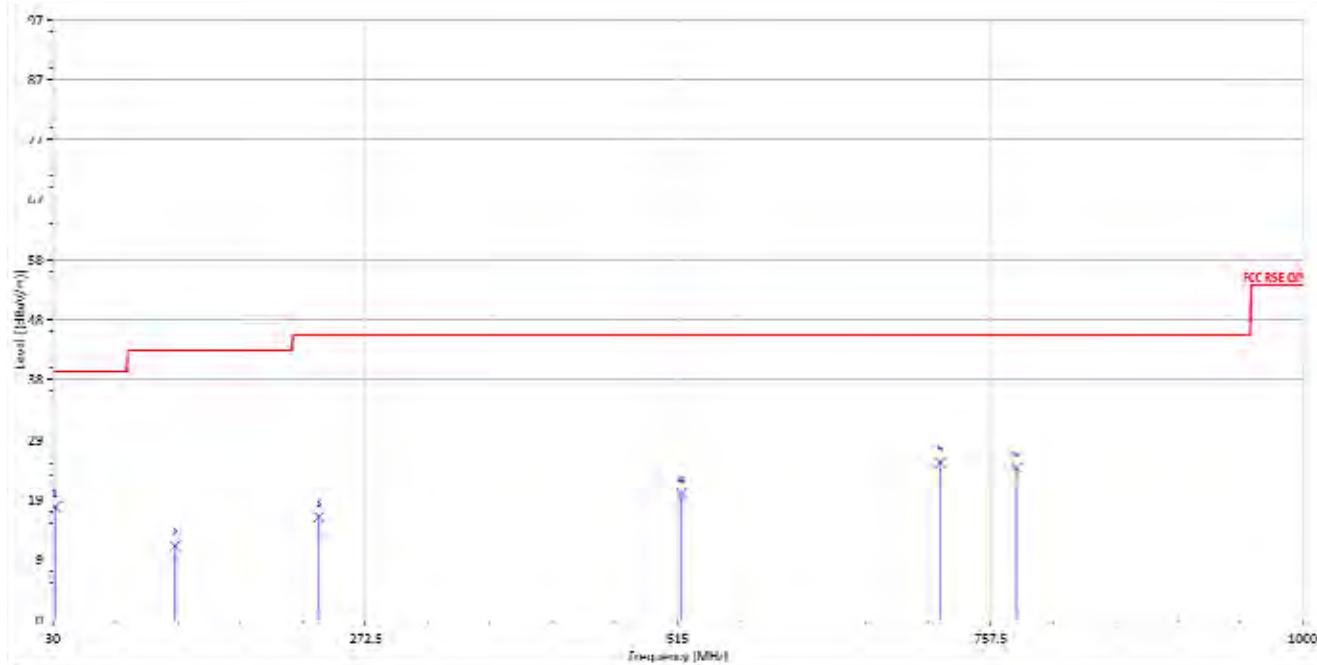
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Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.94	S	Peak	32.35	-14.17	18.18	40	-21.82
125.06	S	Peak	33.26	-21.38	11.88	43.5	-31.62
236.61	S	Peak	38.07	-21.50	16.57	46	-29.43
517.91	S	Peak	33.96	-13.60	20.35	46	-25.65
718.70	S	Peak	36.07	-10.72	25.35	46	-20.65
777.87	S	Peak	34.85	-10.33	24.52	46	-21.48

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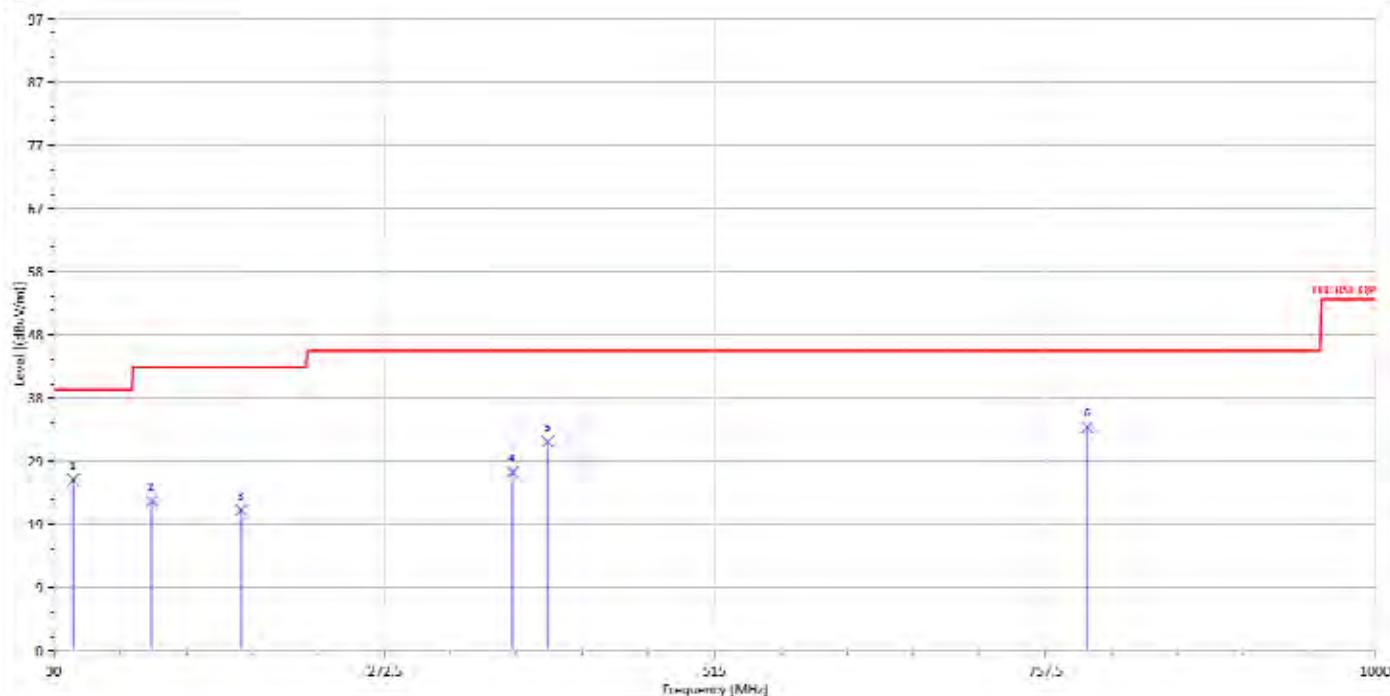
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802.11a 5250~5350 MHz

Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
49.40	S	Peak	56.22	-25.16	31.05	40	-8.95
299.66	S	Peak	42.28	-19.28	23.01	46	-22.99
345.25	S	Peak	43.49	-17.54	25.95	46	-20.05
399.57	S	Peak	40.43	-15.88	24.56	46	-21.44
517.91	S	Peak	37.37	-13.60	23.77	46	-22.23
717.73	S	Peak	38.11	-10.77	27.34	46	-18.66

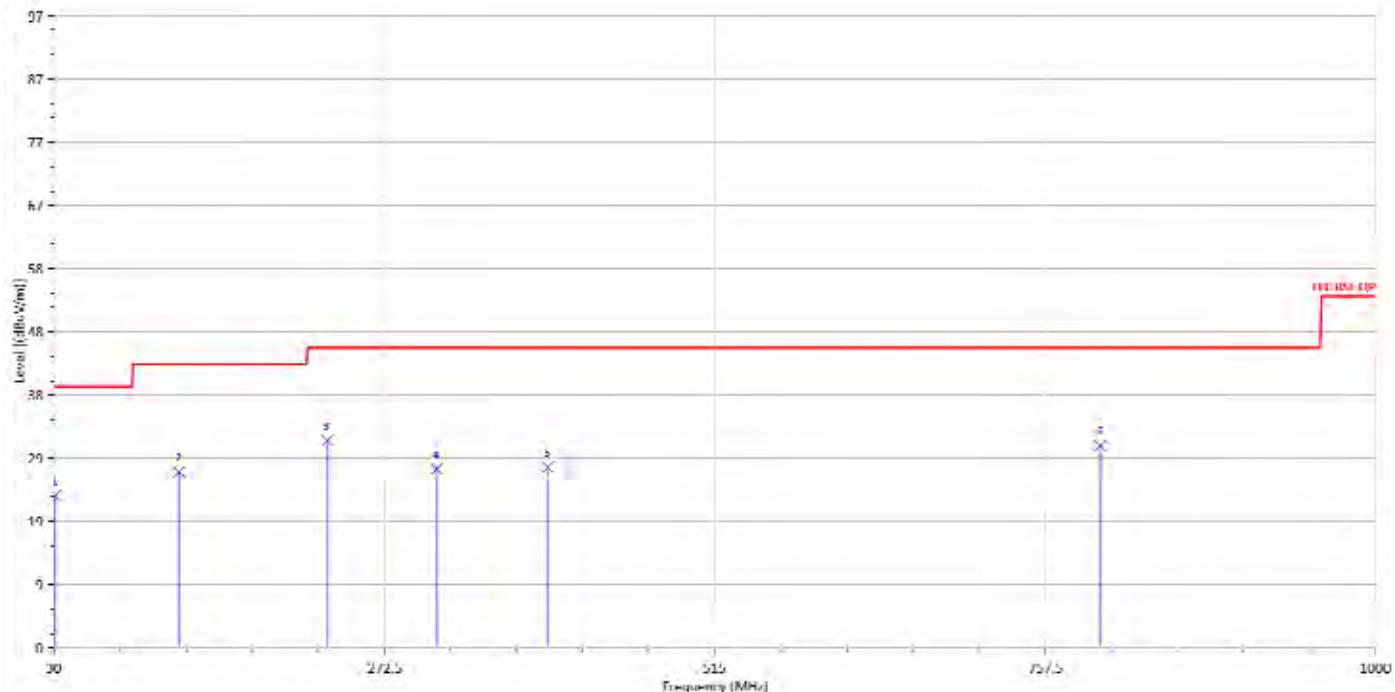
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Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
51.34	S	Peak	52.53	-25.94	26.59	40	-13.41
93.05	S	Peak	45.69	-25.06	20.62	43.5	-22.88
125.06	S	Peak	41.89	-21.38	20.51	43.5	-22.99
298.69	S	Peak	40.74	-19.27	21.47	46	-24.53
359.80	S	Peak	39.69	-17.16	22.53	46	-23.47
714.82	S	Peak	35.71	-10.78	24.93	46	-21.07

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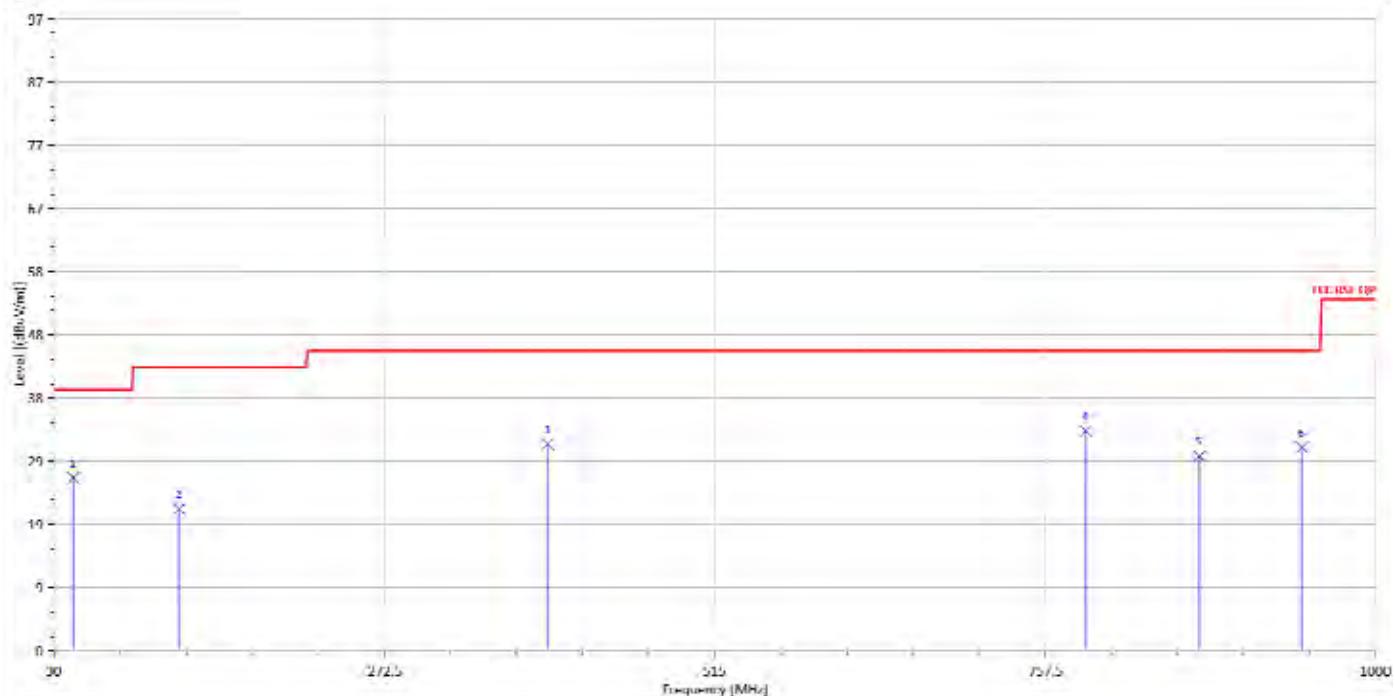
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802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level				
49.40	S	Peak	56.55	-25.16	31.39	40	-8.61	
80.44	S	Peak	53.90	-26.83	27.07	40	-12.93	
125.06	S	Peak	44.02	-21.38	22.65	43.5	-20.85	
517.91	S	Peak	39.33	-13.60	25.72	46	-20.28	
719.67	S	Peak	39.01	-10.73	28.28	46	-17.72	
863.23	S	Peak	36.33	-8.53	27.80	46	-18.20	

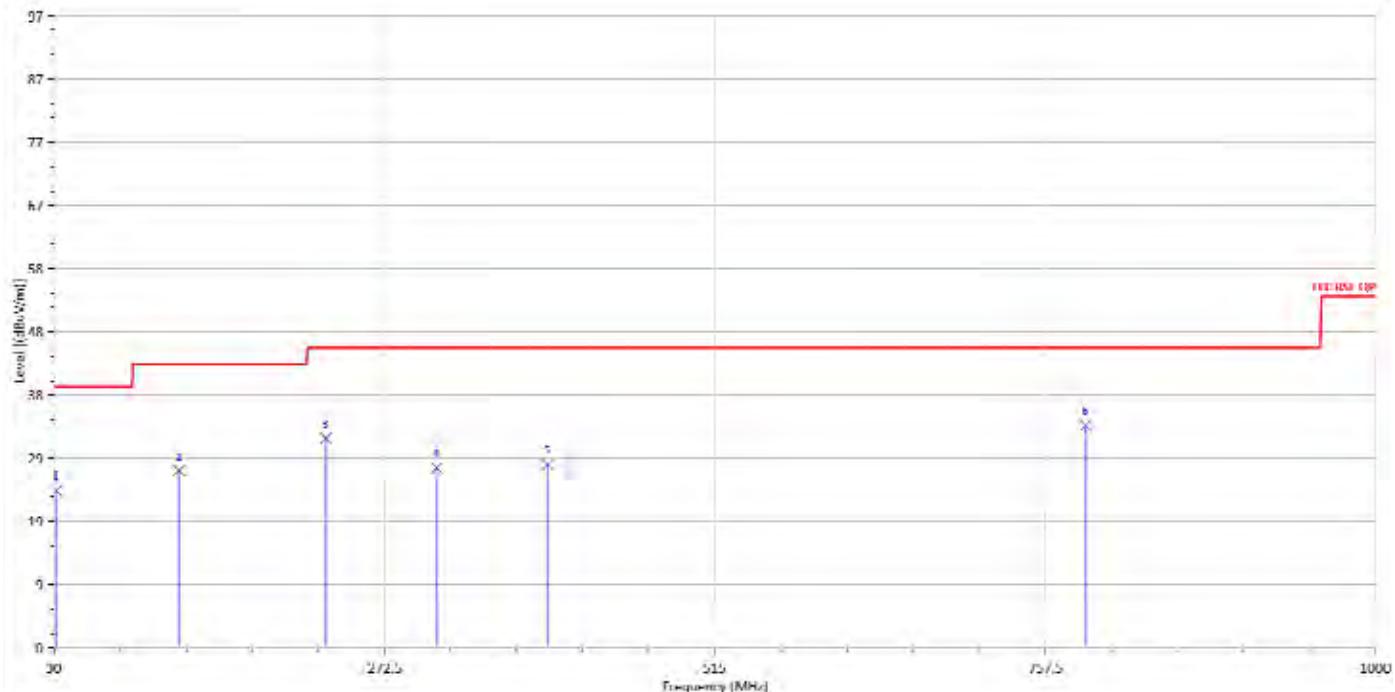
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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
93.05	S	Peak	45.46	45.46	-25.06	20.40	43.5	-23.10
131.85	S	Peak	43.26	43.26	-21.38	21.88	43.5	-21.62
240.49	S	Peak	45.23	45.23	-21.03	24.20	46	-21.80
298.69	S	Peak	43.01	43.01	-19.27	23.73	46	-22.27
517.91	S	Peak	37.01	37.01	-13.60	23.40	46	-22.60
720.64	S	Peak	37.68	37.68	-10.77	26.90	46	-19.10

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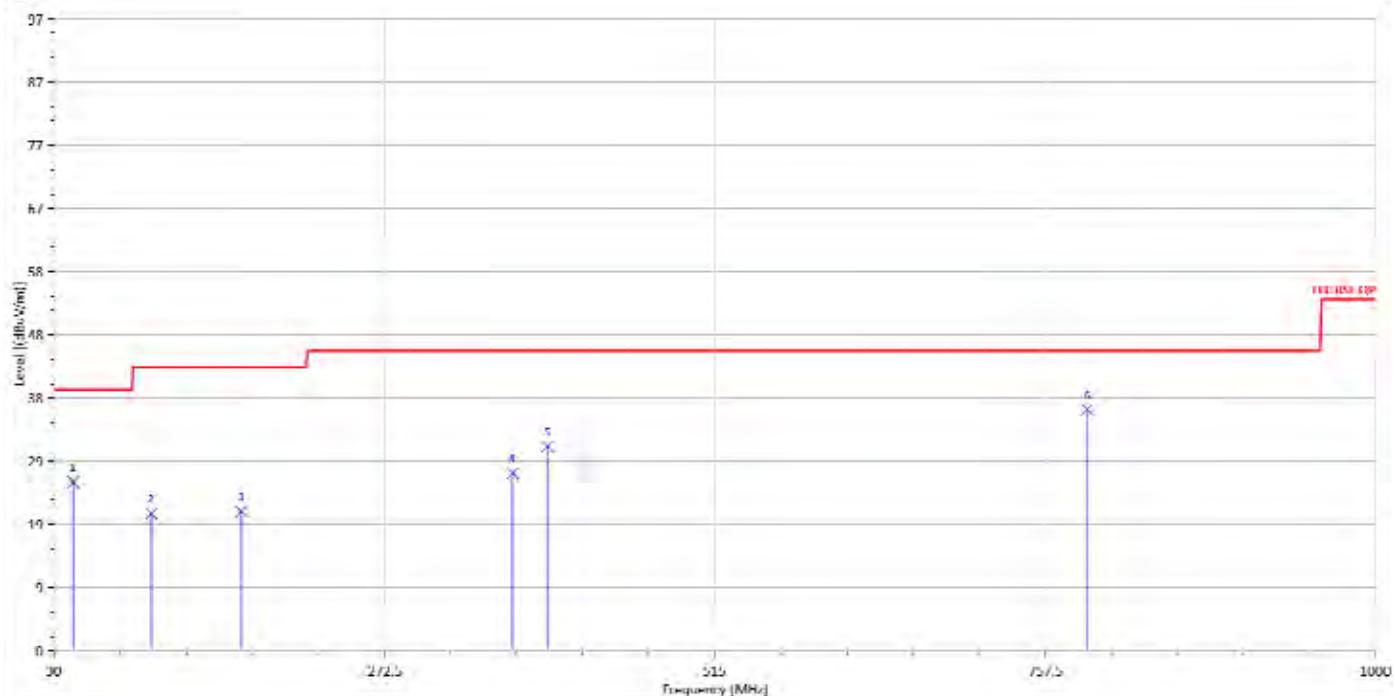
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802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



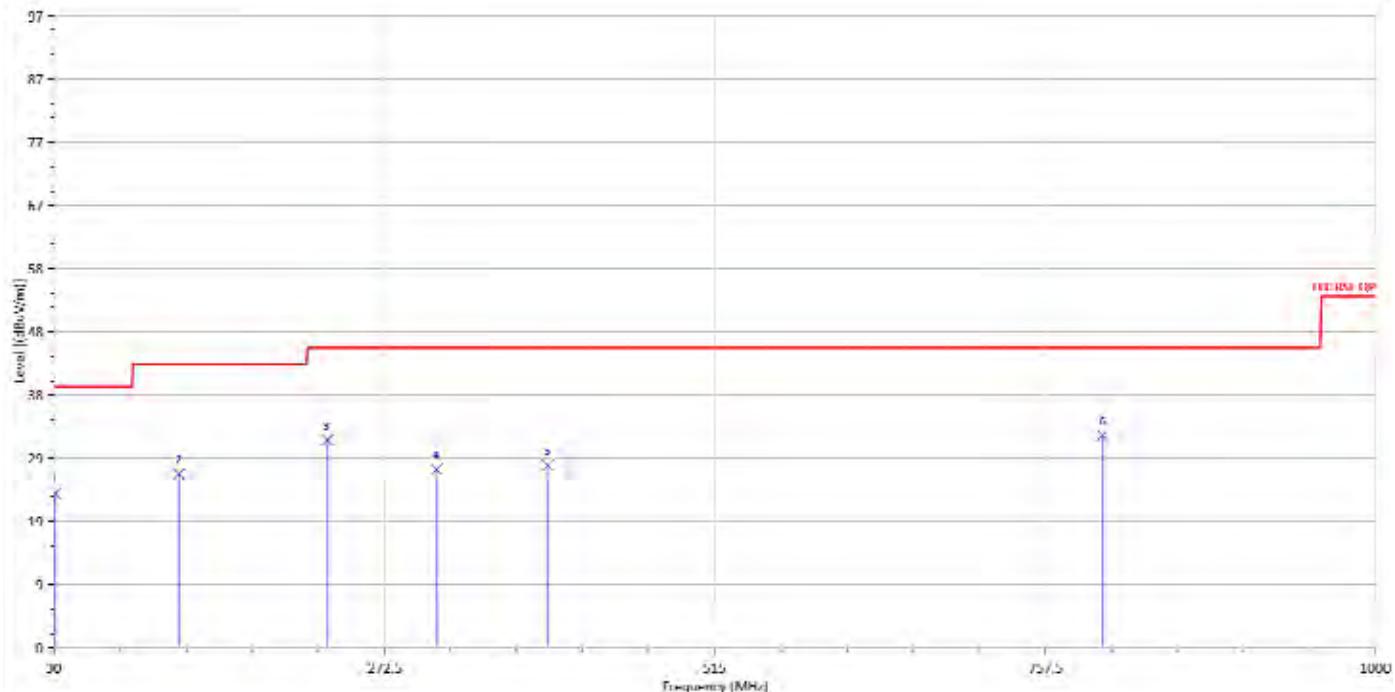
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level				
49.40	S	Peak	58.60	-25.16	33.44	40	-6.56	
78.50	S	Peak	54.64	-27.00	27.64	40	-12.36	
136.70	S	Peak	42.58	-21.55	21.03	43.5	-22.47	
239.52	S	Peak	44.25	-21.14	23.11	46	-22.89	
345.25	S	Peak	46.71	-17.54	29.17	46	-16.83	
717.73	S	Peak	37.27	-10.77	26.50	46	-19.50	

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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
93.05	S	Peak	45.24	45.24	-25.06	20.17	43.5	-23.33
131.85	S	Peak	43.34	43.34	-21.38	21.96	43.5	-21.54
240.49	S	Peak	45.55	45.55	-21.03	24.52	46	-21.48
359.80	S	Peak	40.84	40.84	-17.16	23.68	46	-22.32
517.91	S	Peak	38.52	38.52	-13.60	24.92	46	-21.08
719.67	S	Peak	37.45	37.45	-10.73	26.72	46	-19.28

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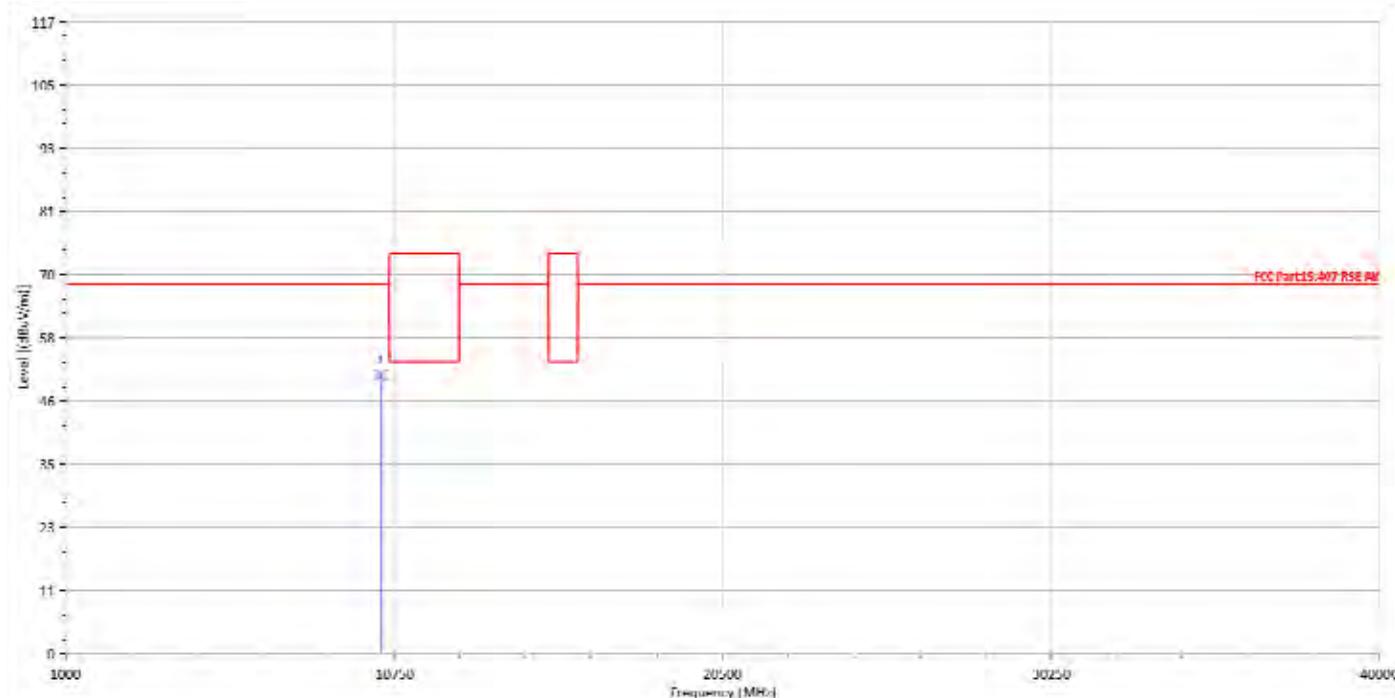
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Above 1GHz Worst-Case Data:

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

Operation Mode :	802.11a	Test Date :	2015/12/31
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	24.1deg_C/48RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical



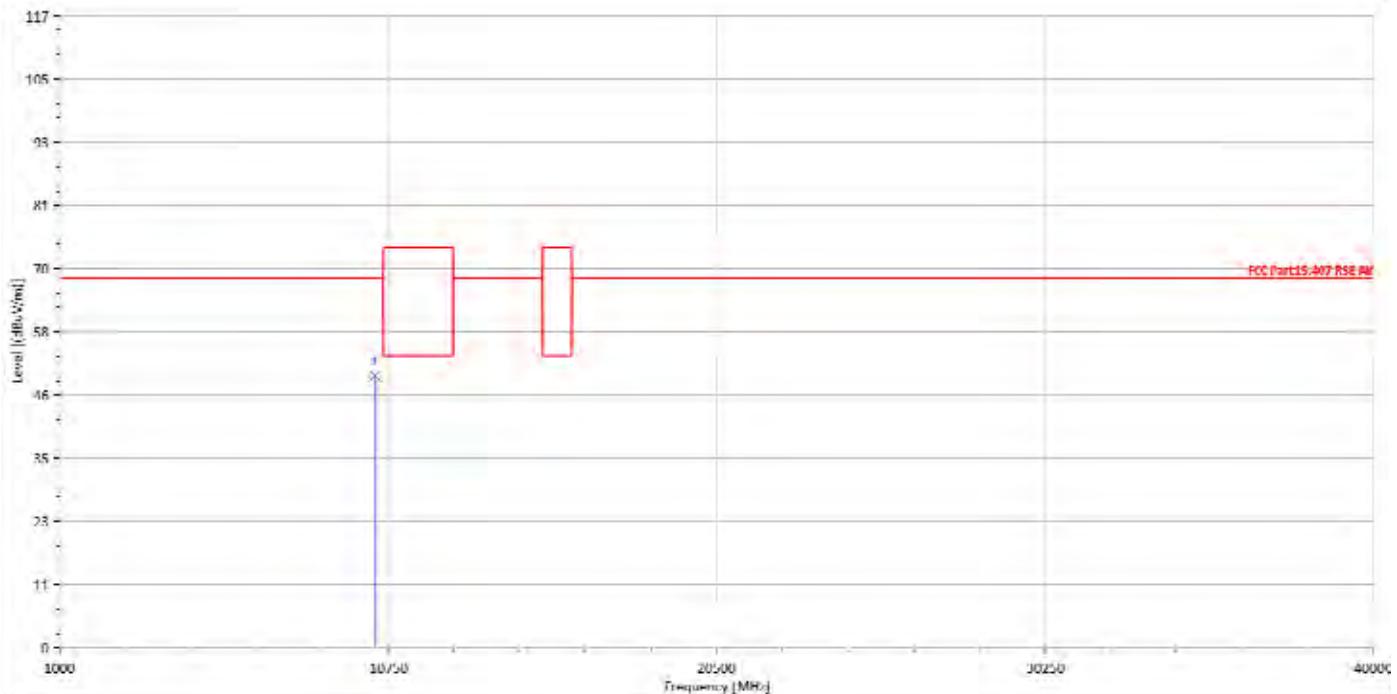
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10360.00	H	Peak	32.58	18.94	51.52	68.3	-16.78

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5180 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	31.29	18.94	50.23	68.3	-18.07

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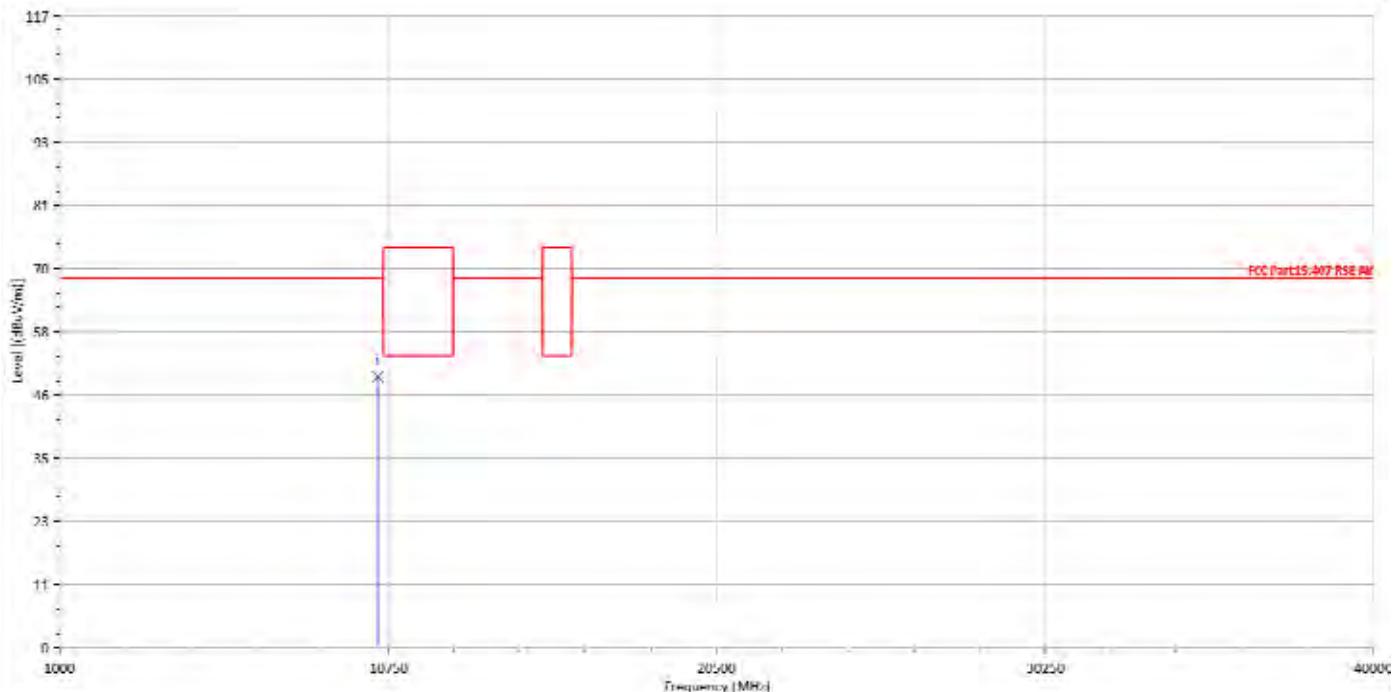
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	31.10	19.03	50.12	68.3	-18.18

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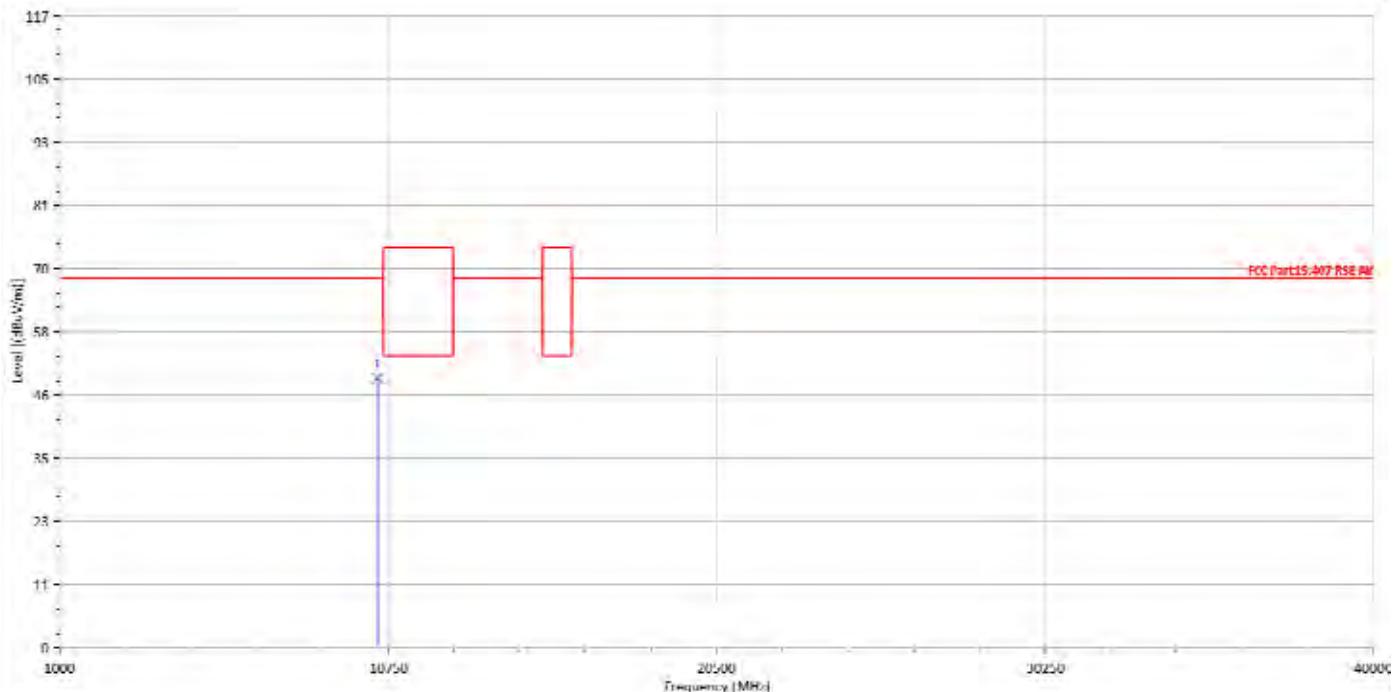
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	30.83	19.03	49.85	68.3	-18.45

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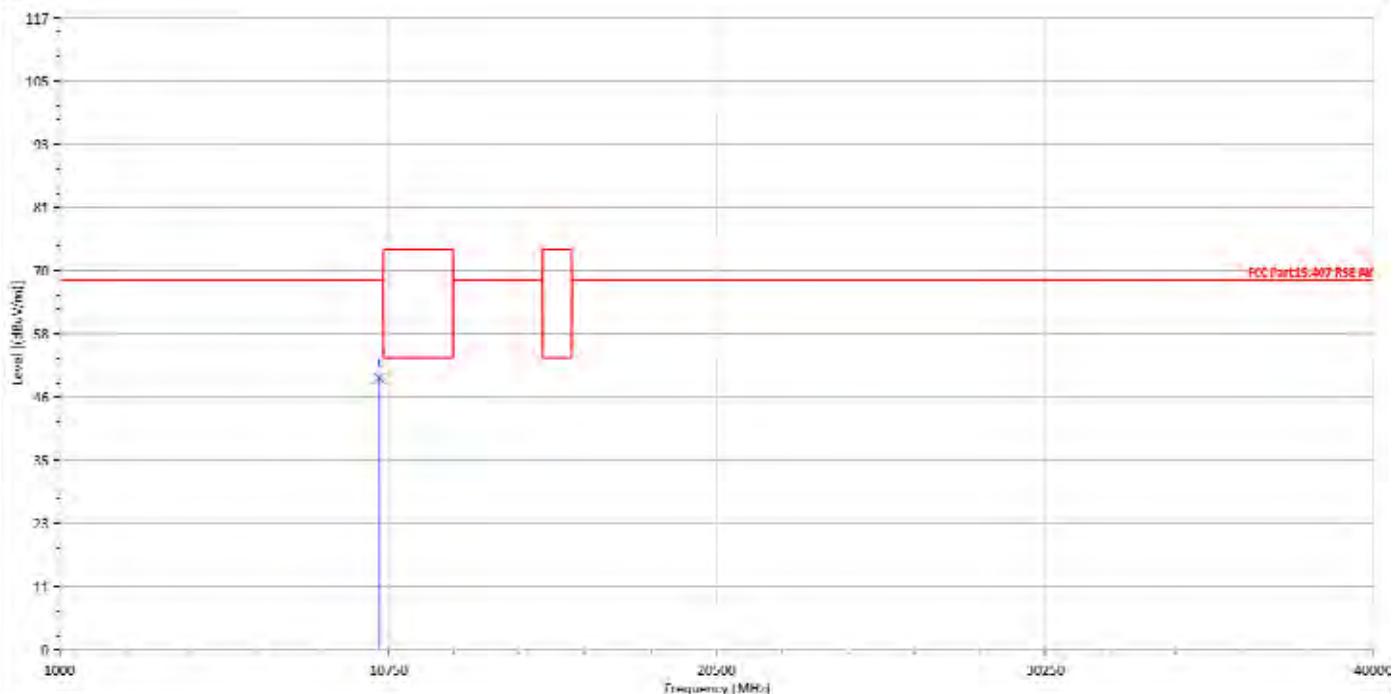
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5240 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10480.00	H	Peak	31.07	19.13	50.20	68.3	-18.10

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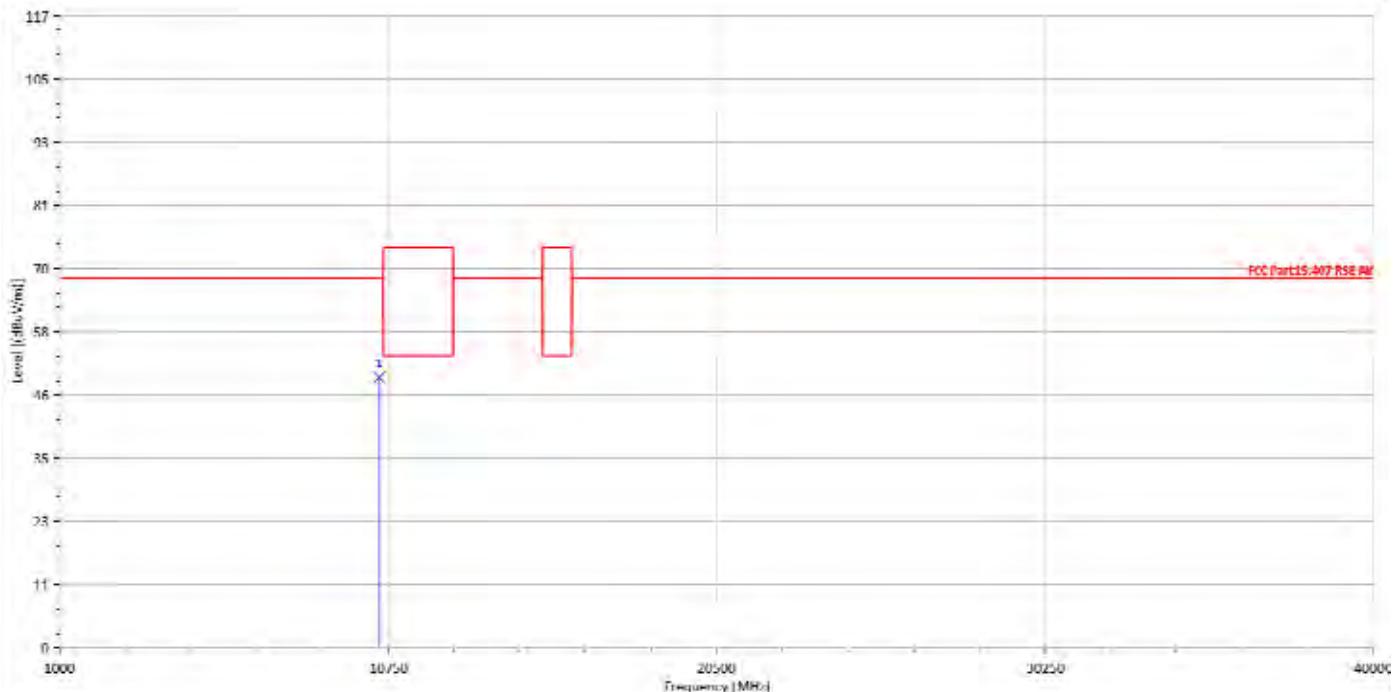
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5240 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10480.00	H	Peak	30.84	19.13	49.97	68.3	-18.33

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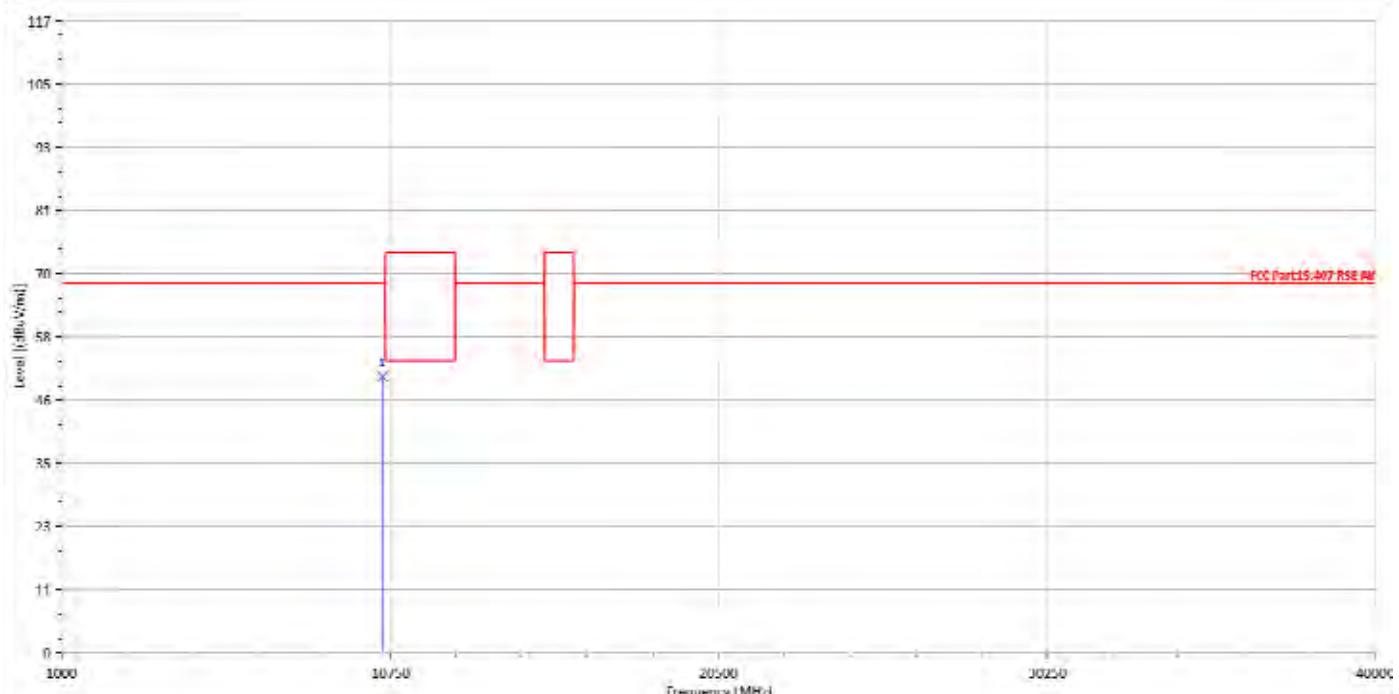
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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Mode : 802.11a Test Date : 2015/12/31
 Fundamental Frequency : 5260 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



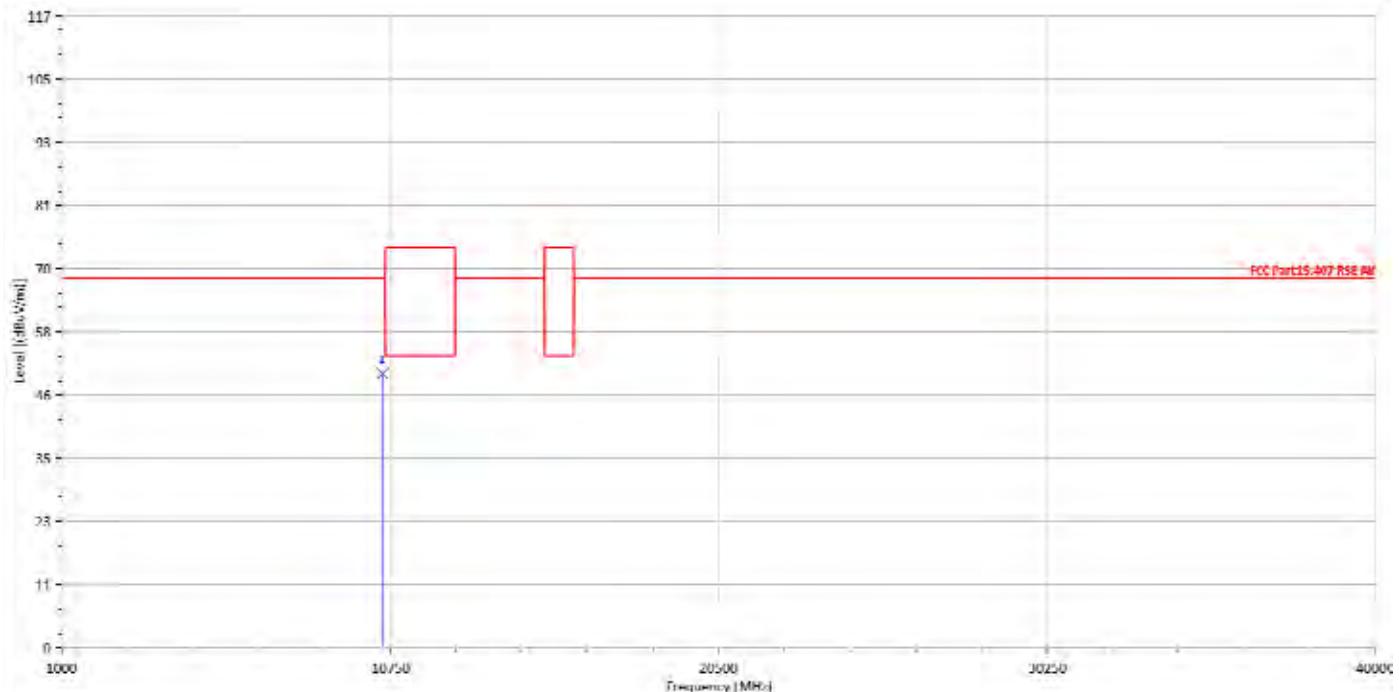
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	H	Peak	31.83	19.25	51.08	68.3	-17.22

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5260 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
10520.00	H	Peak	31.41	19.25	50.66	68.3	-17.64

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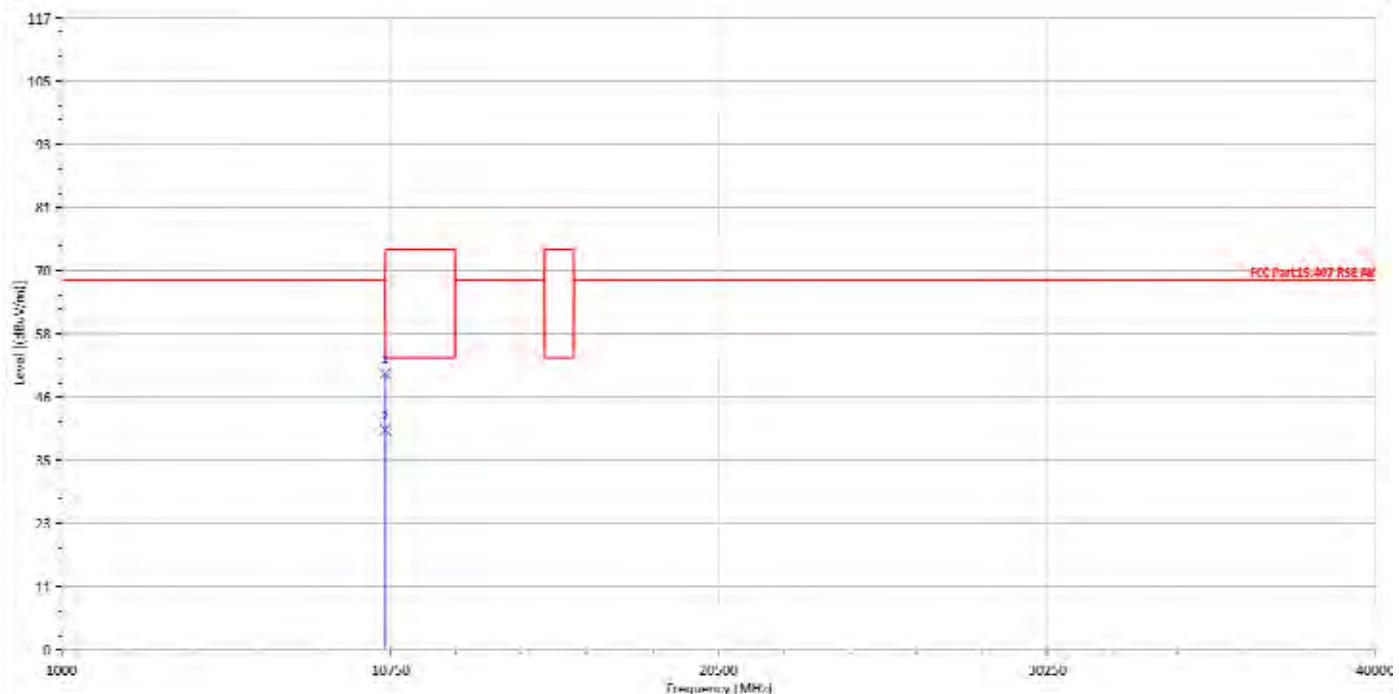
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	31.65	19.38	51.03	74	-22.97
10600.00	H	Average	21.32	19.38	40.70	54	-13.30

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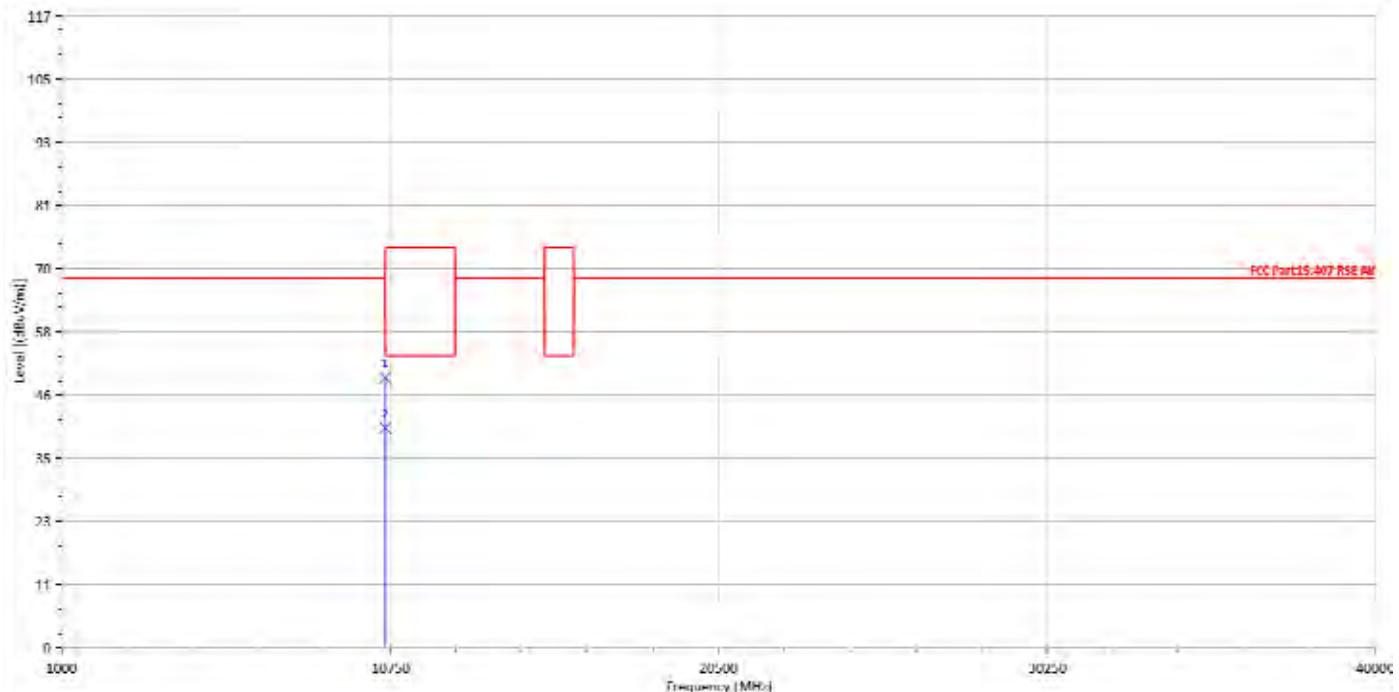
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Operation Mode : 802.11a Test Date : 2015/12/31
 Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10600.00	H	Peak	30.53	19.38	49.90	74	-24.10
10600.00	H	Average	21.32	19.38	40.70	54	-13.30

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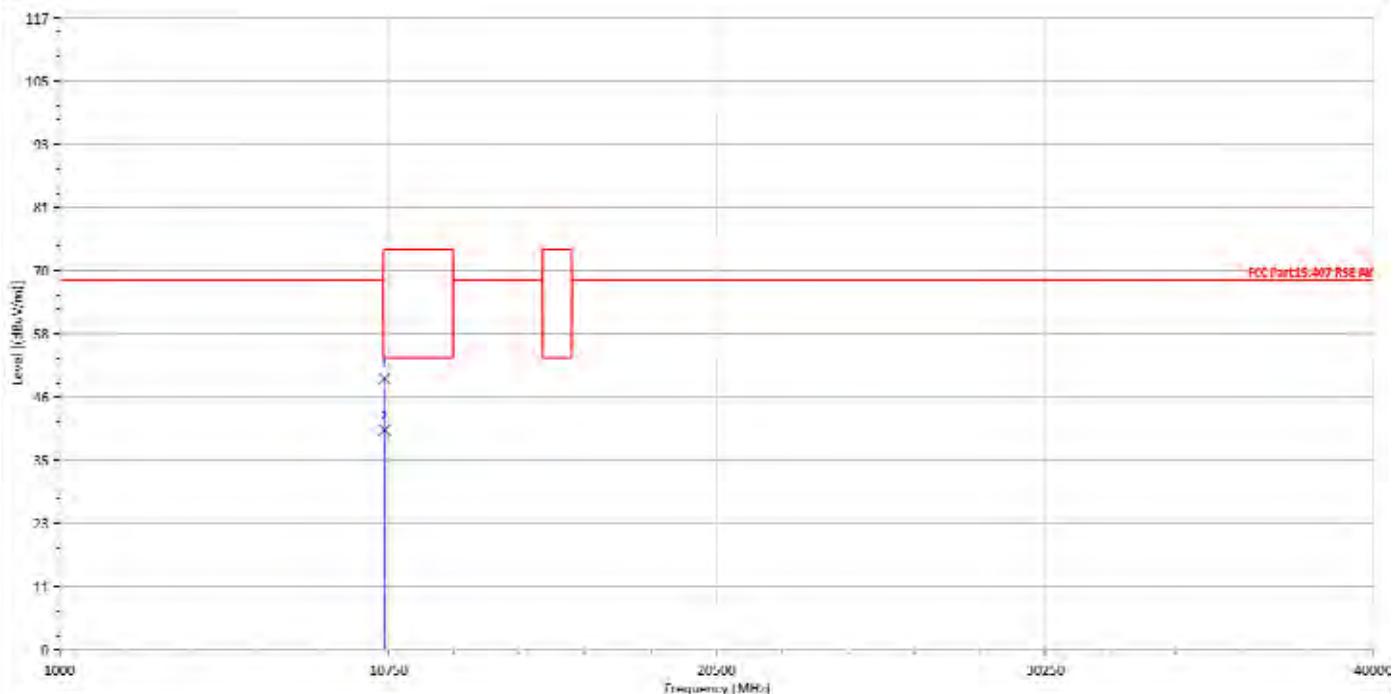
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	H	Peak	30.86	19.28	50.14	74	-23.86
10640.00	H	Average	21.37	19.28	40.65	54	-13.35

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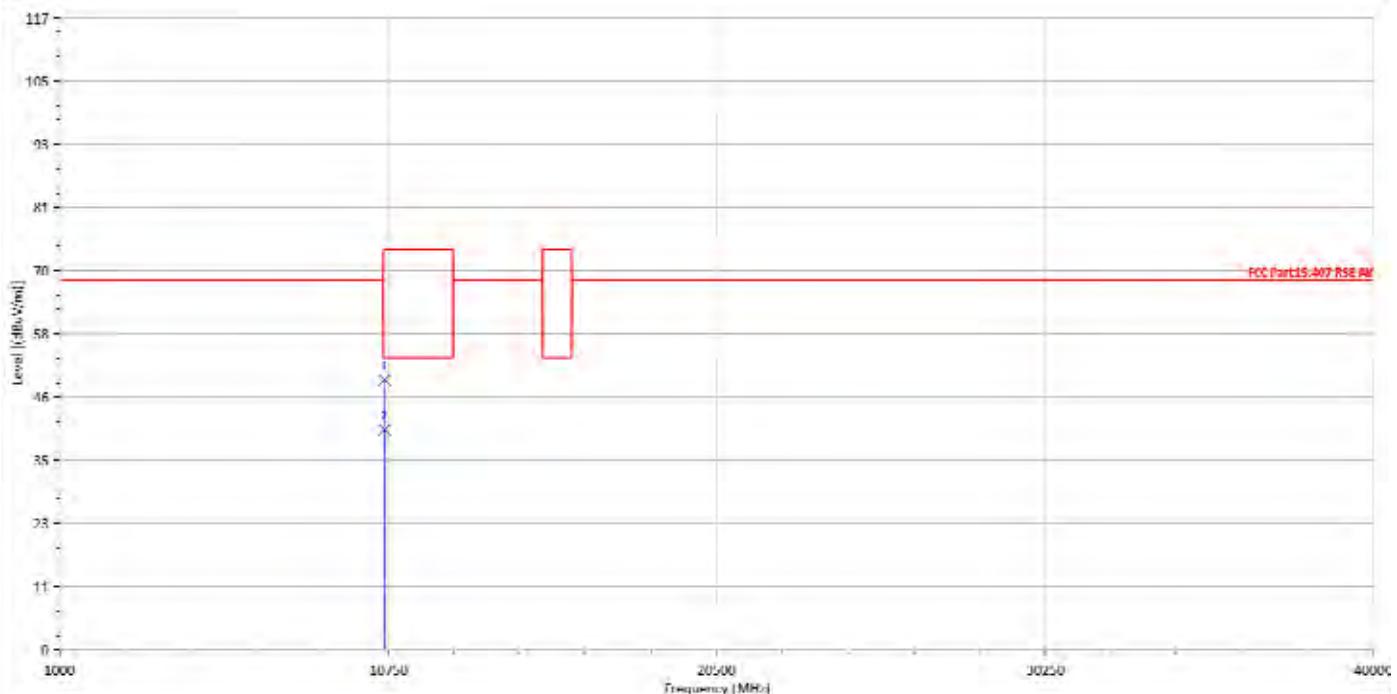
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	H	Peak	30.58	19.28	49.86	74	-24.14
10640.00	H	Average	21.40	19.28	40.68	54	-13.32

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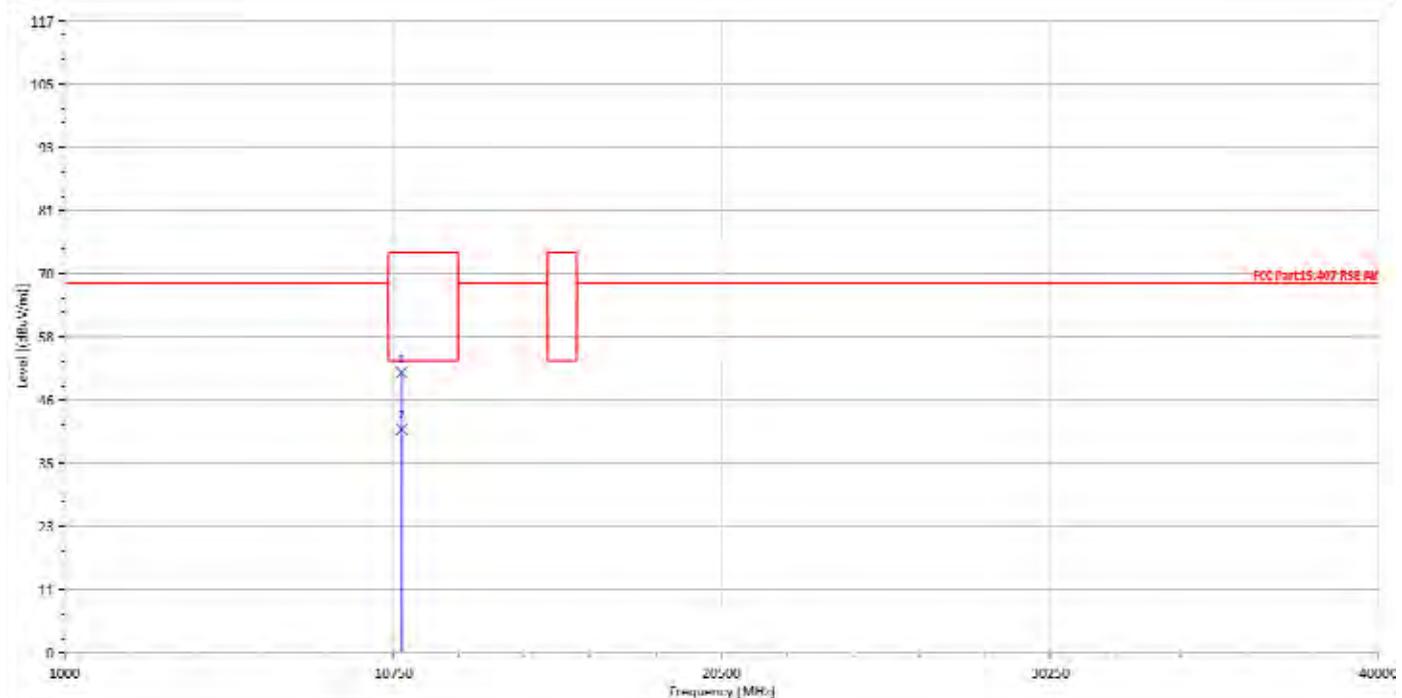
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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



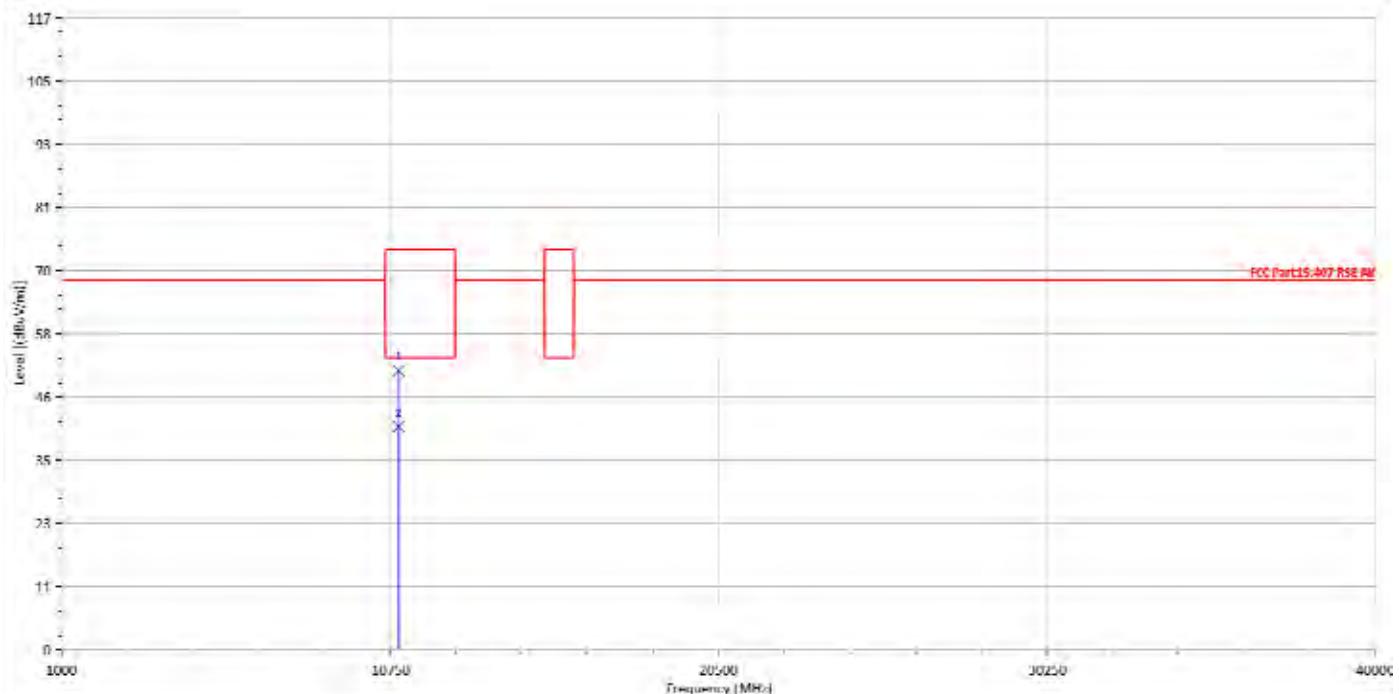
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	H	Peak	31.78	20.02	51.79	74	-22.21
11000.00	H	Average	21.30	20.02	41.32	54	-12.68

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



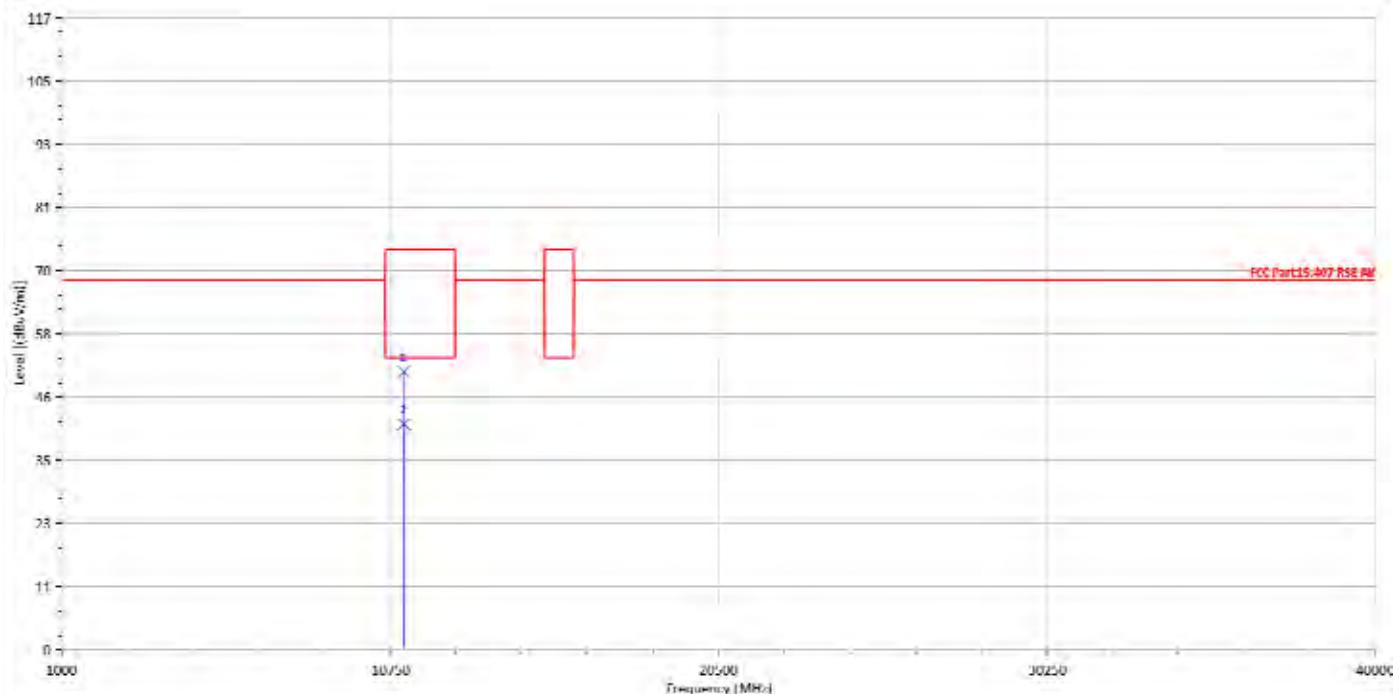
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11000.00	H	Peak	31.59	20.02	51.60	74	-22.40
11000.00	H	Average	21.27	20.02	41.29	54	-12.71

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
11160.00	H	Peak	30.99	20.38	51.37	74	-22.63
11160.00	H	Average	21.35	20.38	41.73	54	-12.27

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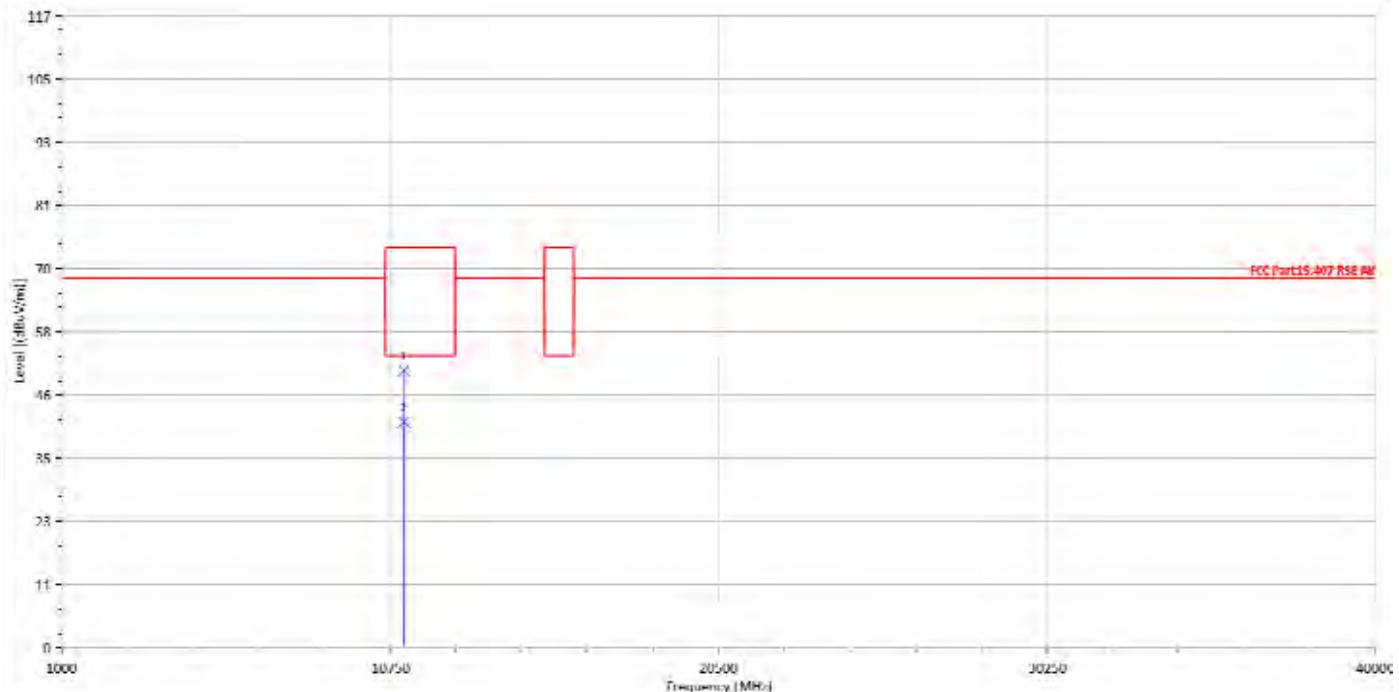
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
11160.00	H	Peak	30.88	20.38	51.26	74	-22.74
11160.00	H	Average	21.36	20.38	41.74	54	-12.26

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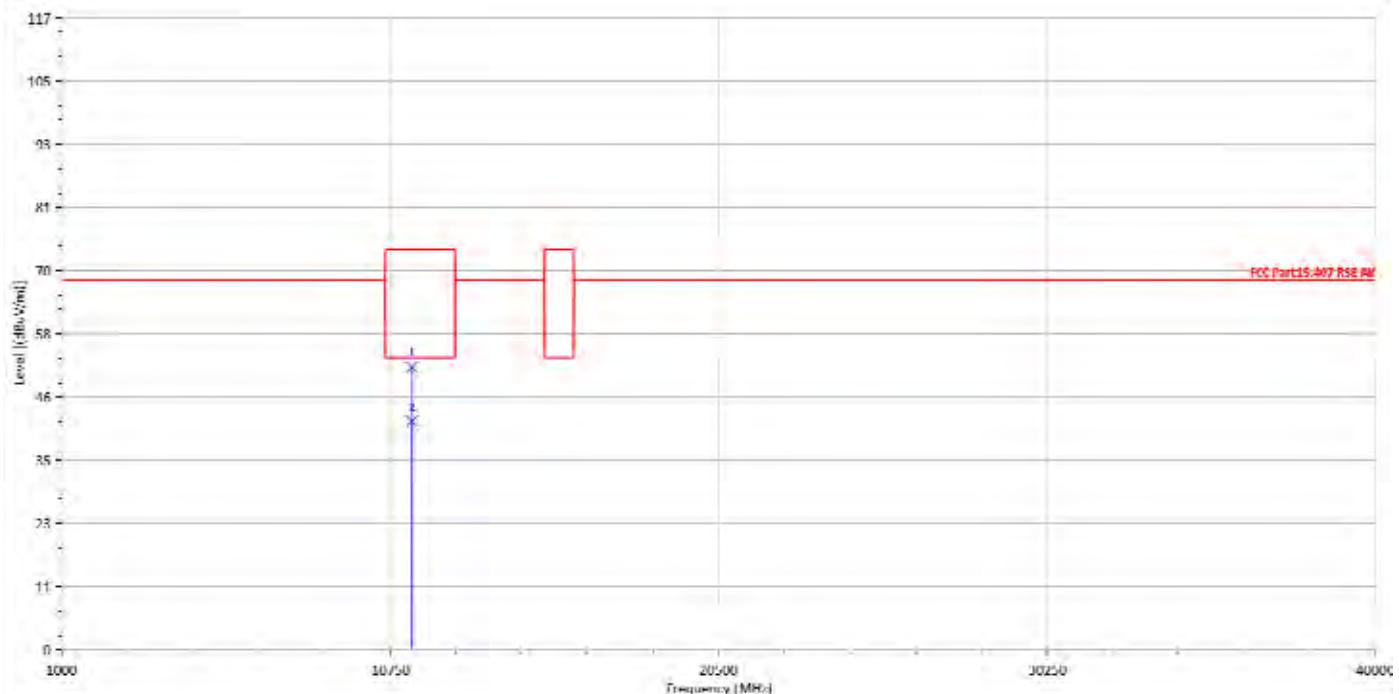
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11400.00	H	Peak	31.43	20.81	52.24	74	-21.76
11400.00	H	Average	21.49	20.81	42.30	54	-11.70

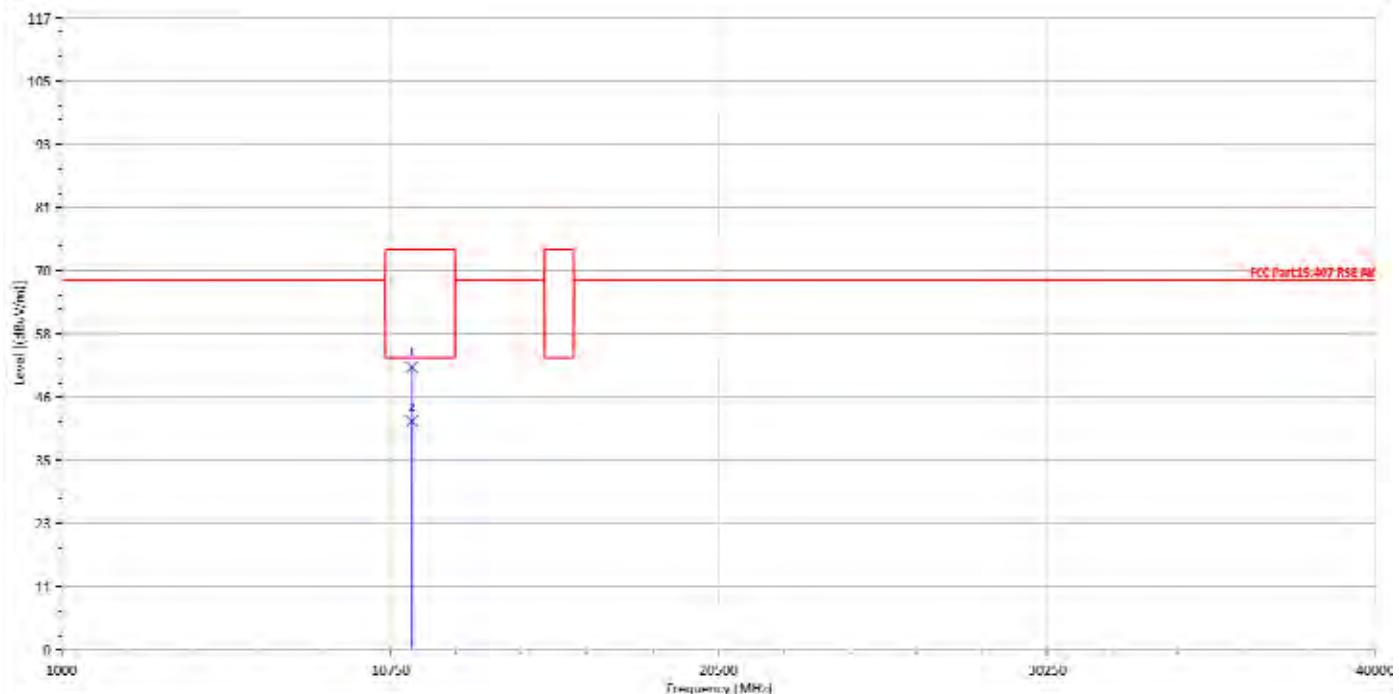
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
11400.00	H	Peak	31.42	20.81	52.23	74	-21.77
11400.00	H	Average	21.50	20.81	42.31	54	-11.69

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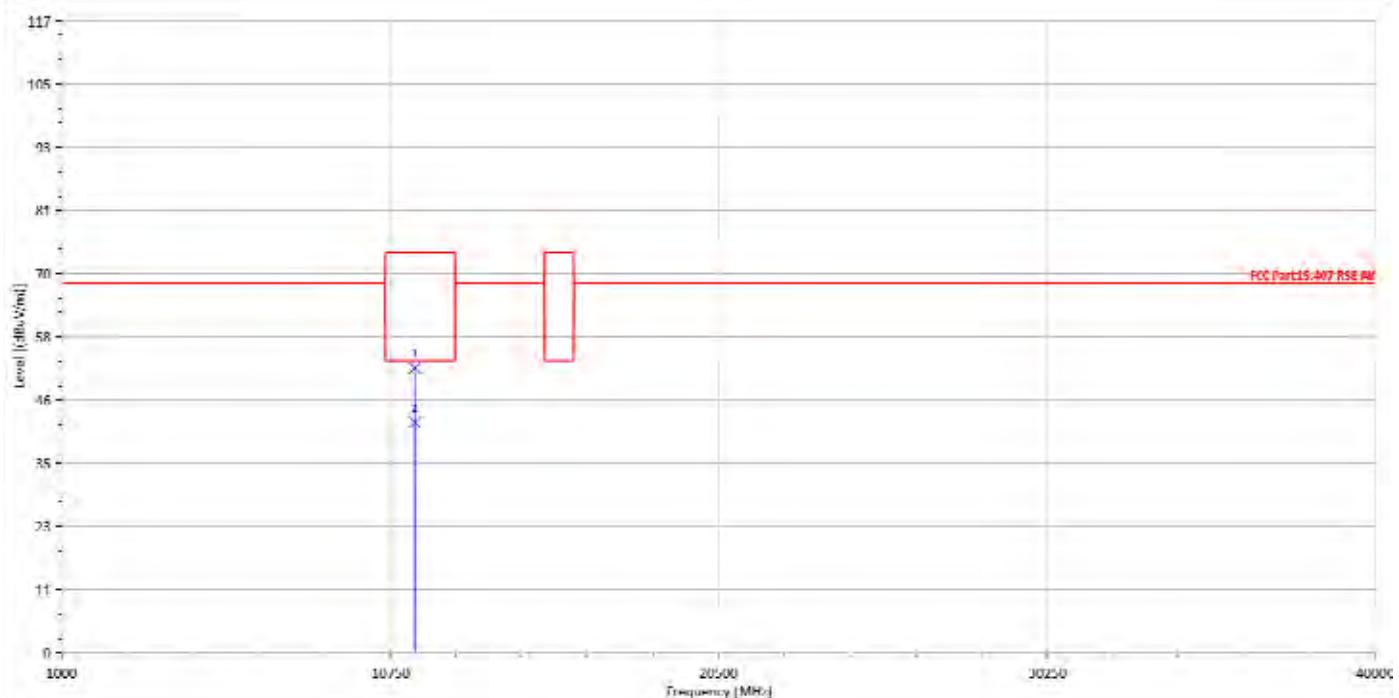
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Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



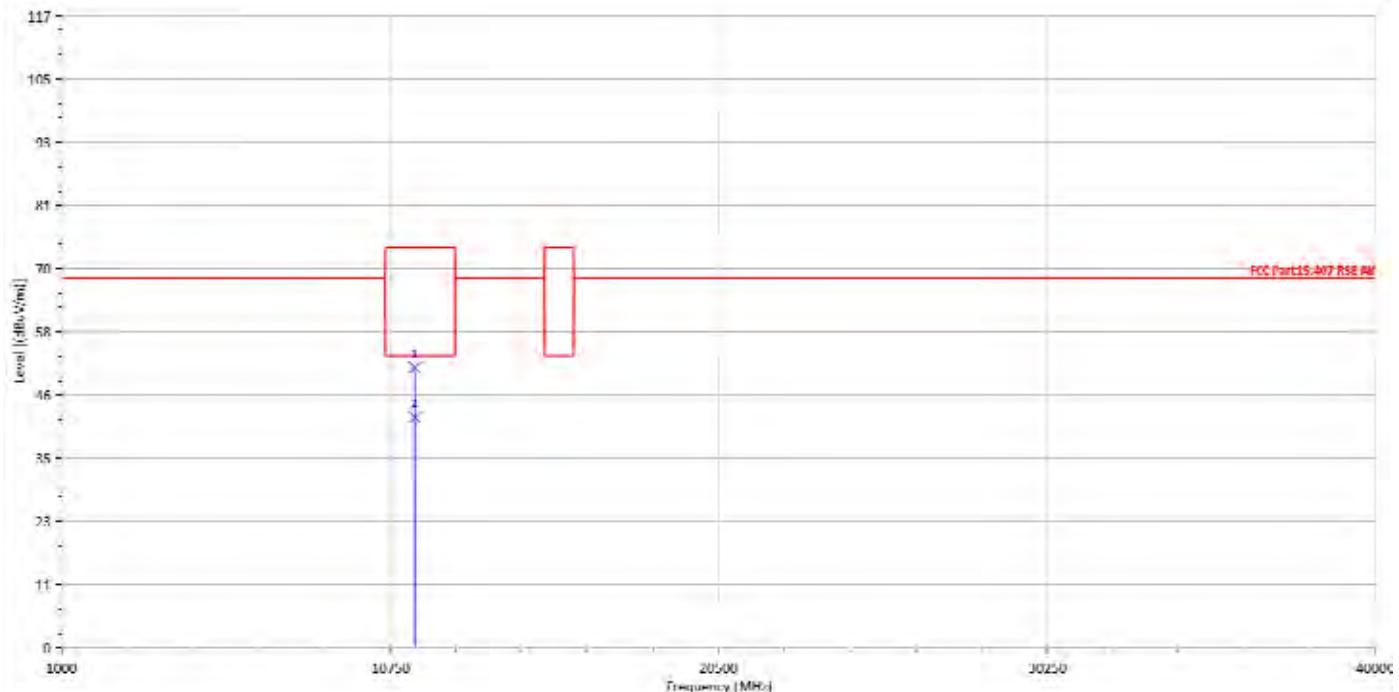
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB _μ V	dB	dB _μ V/m	dB _μ V/m	dB
11490.00	H	Peak	31.57	21.08	52.65	74	-21.35
11490.00	H	Average	21.57	21.08	42.65	54	-11.35

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	H	Peak	30.74	21.08	51.83	74	-22.17
11490.00	H	Average	21.57	21.08	42.65	54	-11.35

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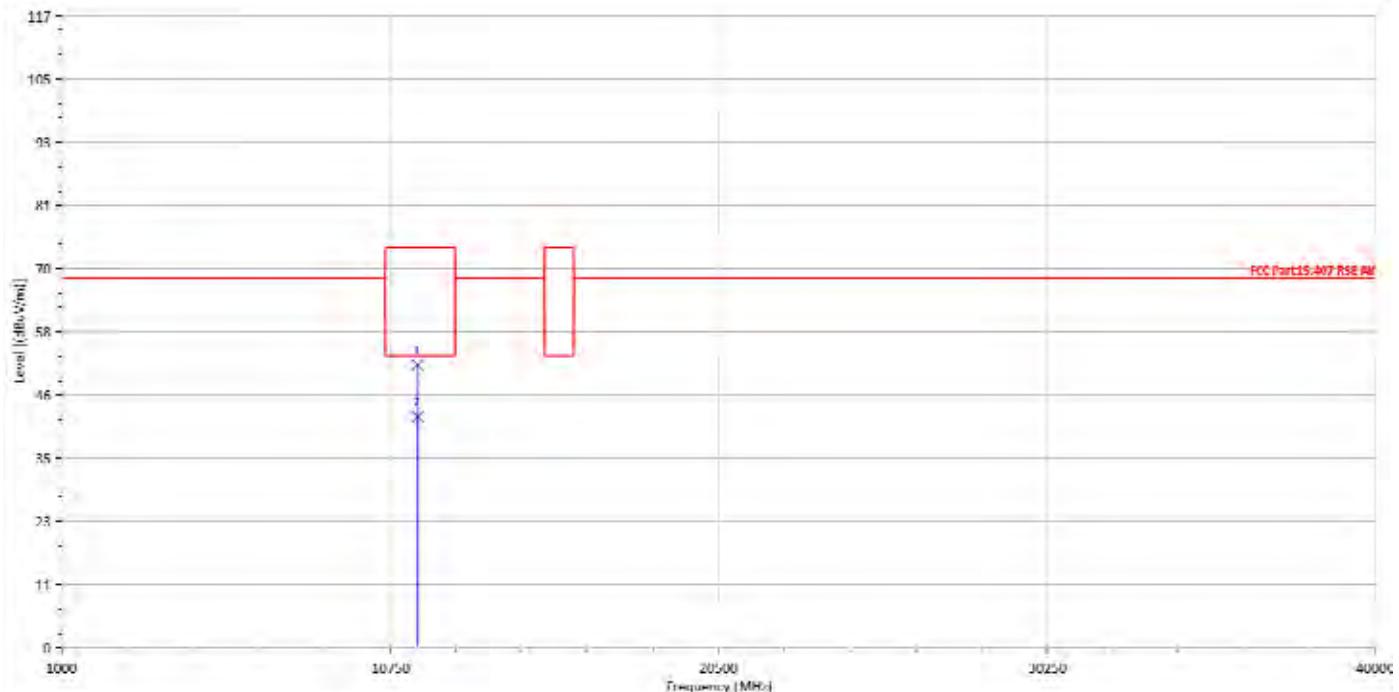
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11570.00	H	Peak	31.18	21.14	52.32	74	-21.68
11570.00	H	Average	21.62	21.14	42.76	54	-11.24

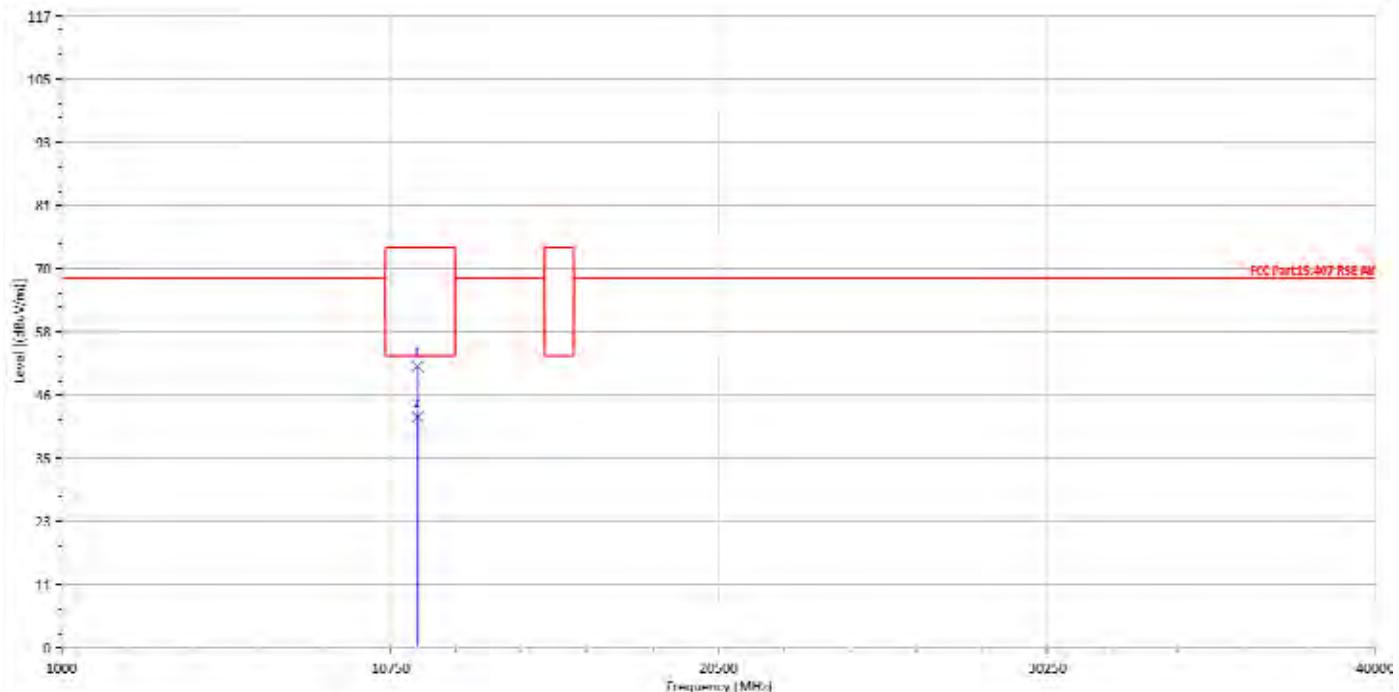
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



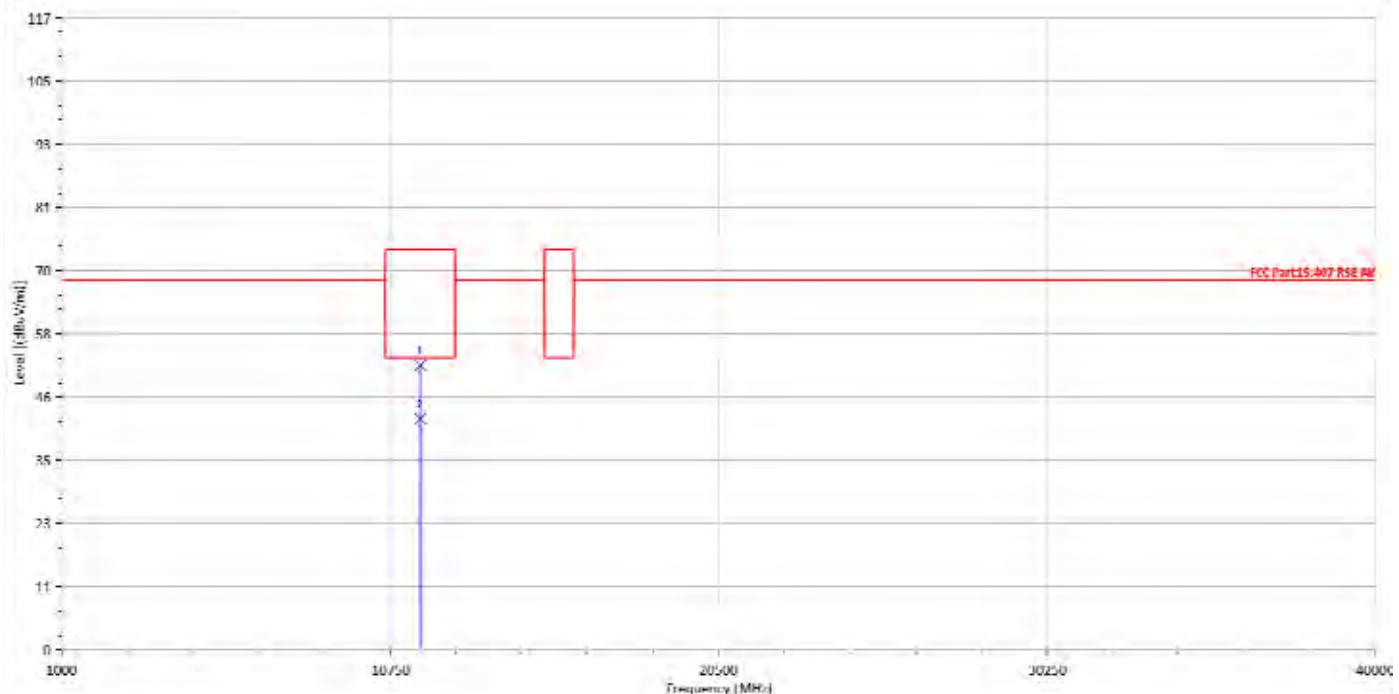
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.00	H	Peak	30.90	21.14	52.04	74	-21.96
11570.00	H	Average	21.58	21.14	42.72	54	-11.28

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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	31.32	21.27	52.59	74	-21.41
11650.00	H	Average	21.47	21.27	42.74	54	-11.26

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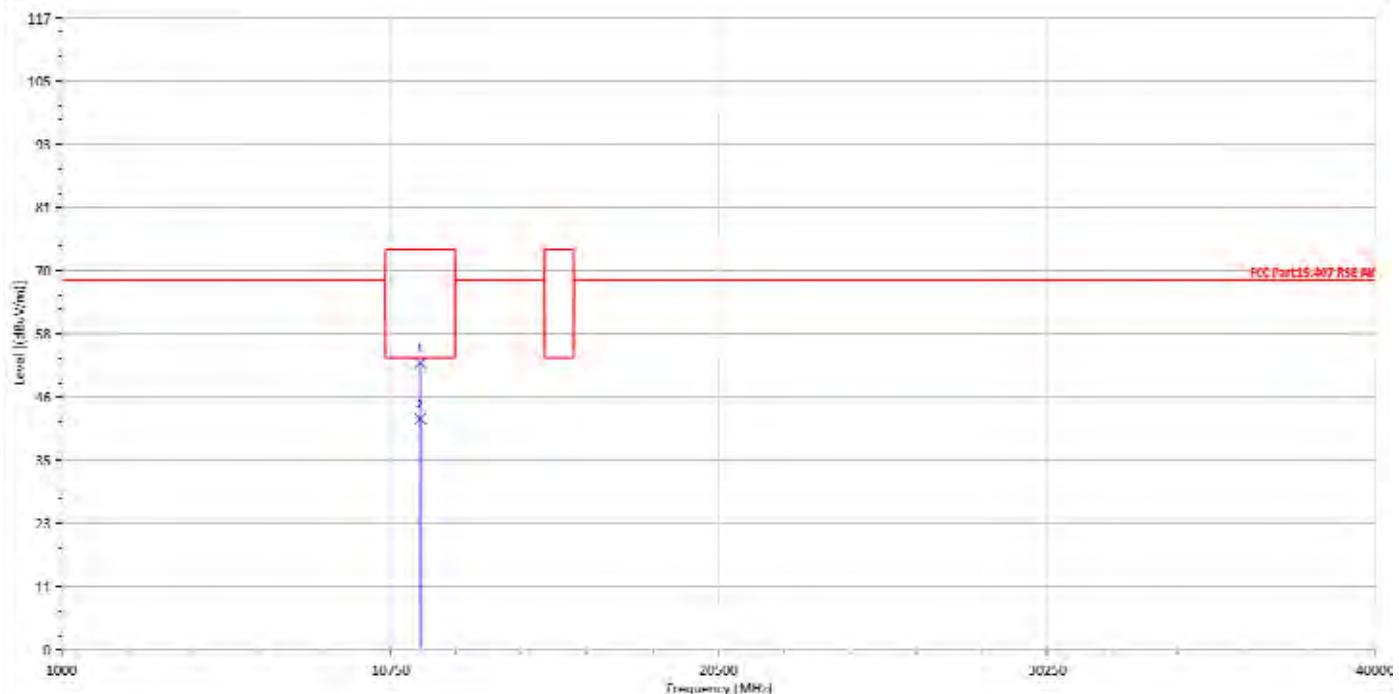
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Operation Mode : 802.11a Test Date : 2015/12/31
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1 deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11650.00	H	Peak	31.80	21.27	53.07	74	-20.93
11650.00	H	Average	21.48	21.27	42.75	54	-11.25

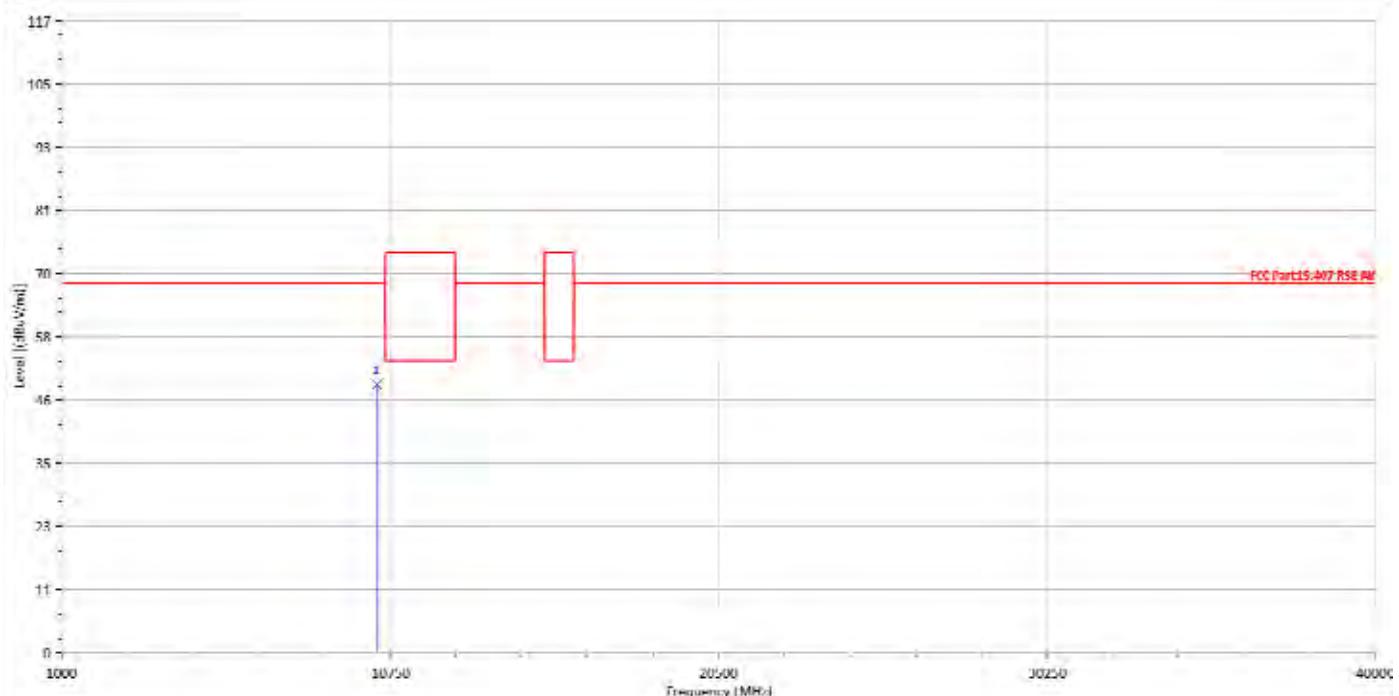
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5180 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



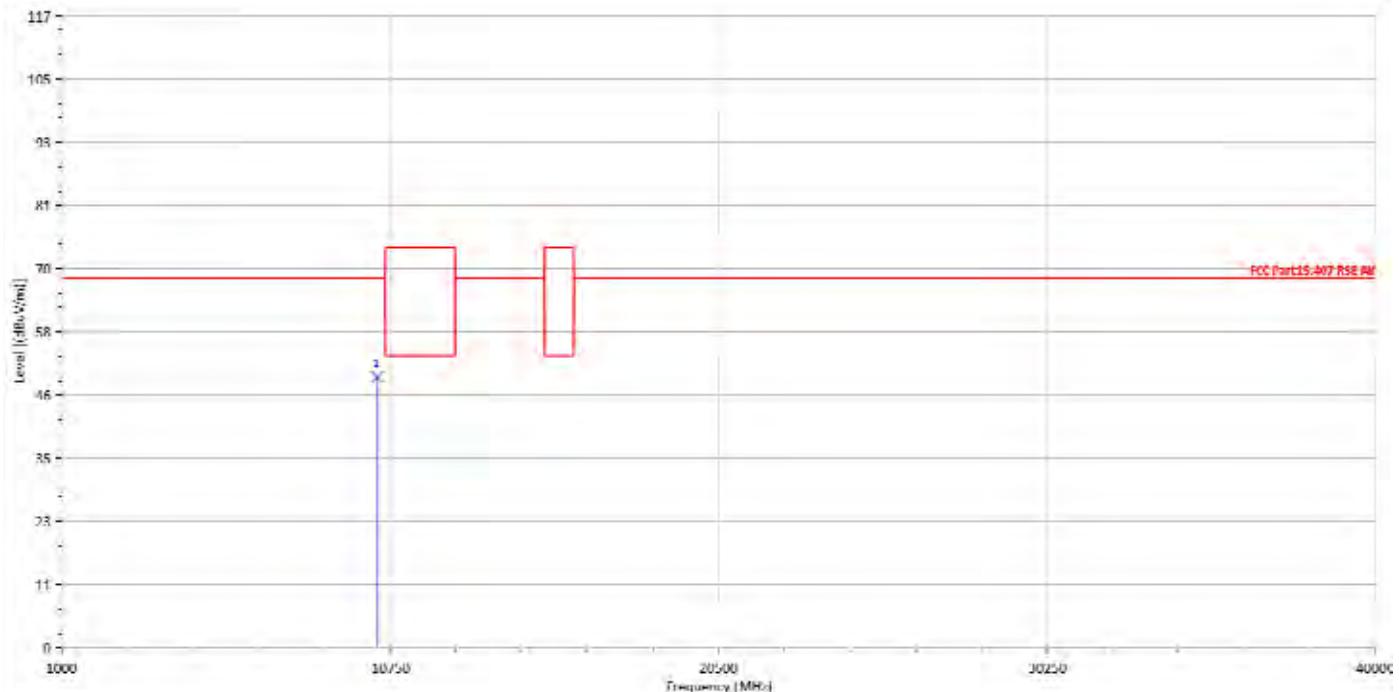
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	30.64	18.94	49.57	68.3	-18.73

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5180 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10360.00	H	Peak	31.11	18.94	50.05	68.3	-18.25

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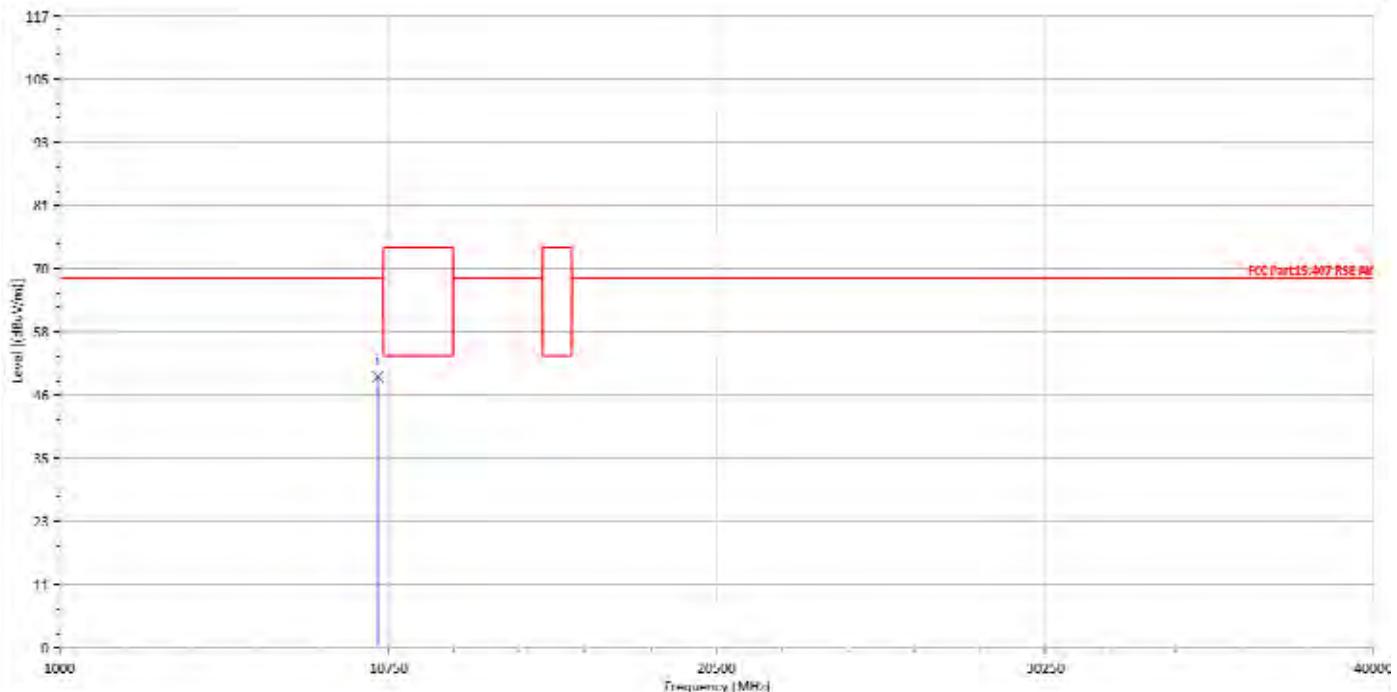
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	31.08	19.03	50.11	68.3	-18.19

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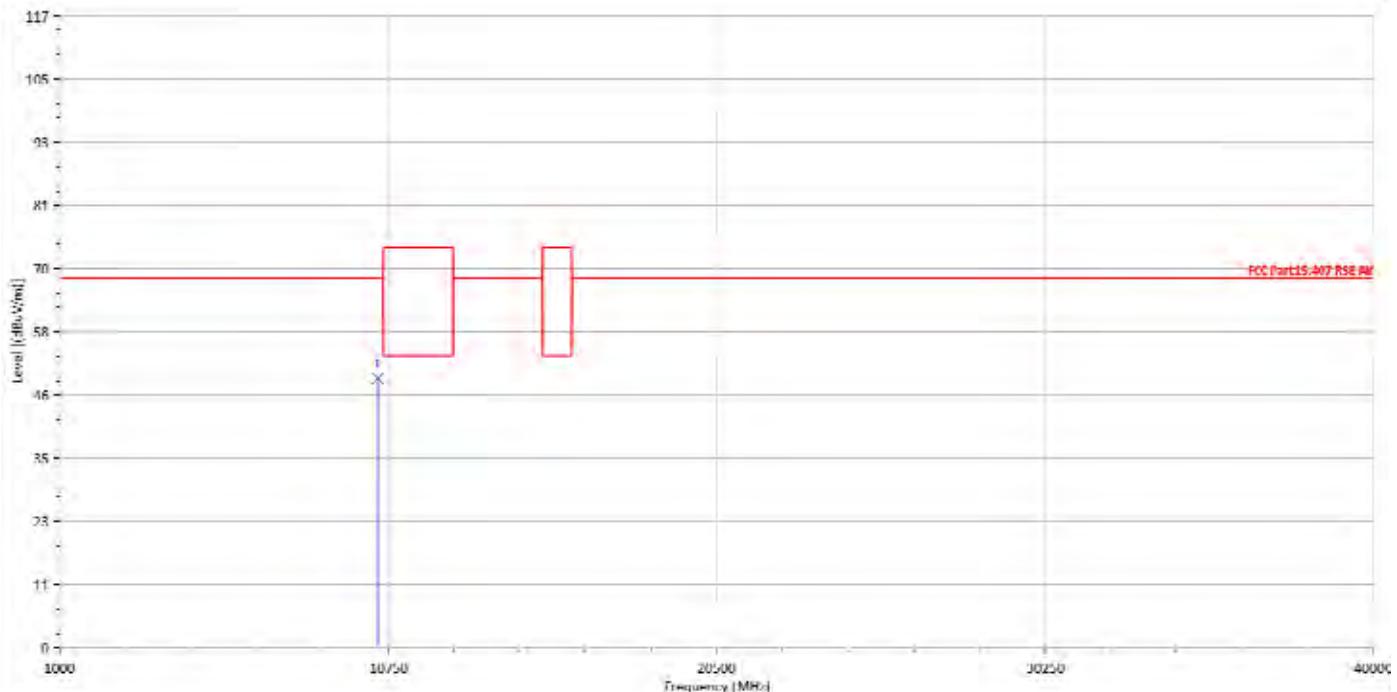
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5220 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	30.75	19.03	49.77	68.3	-18.53

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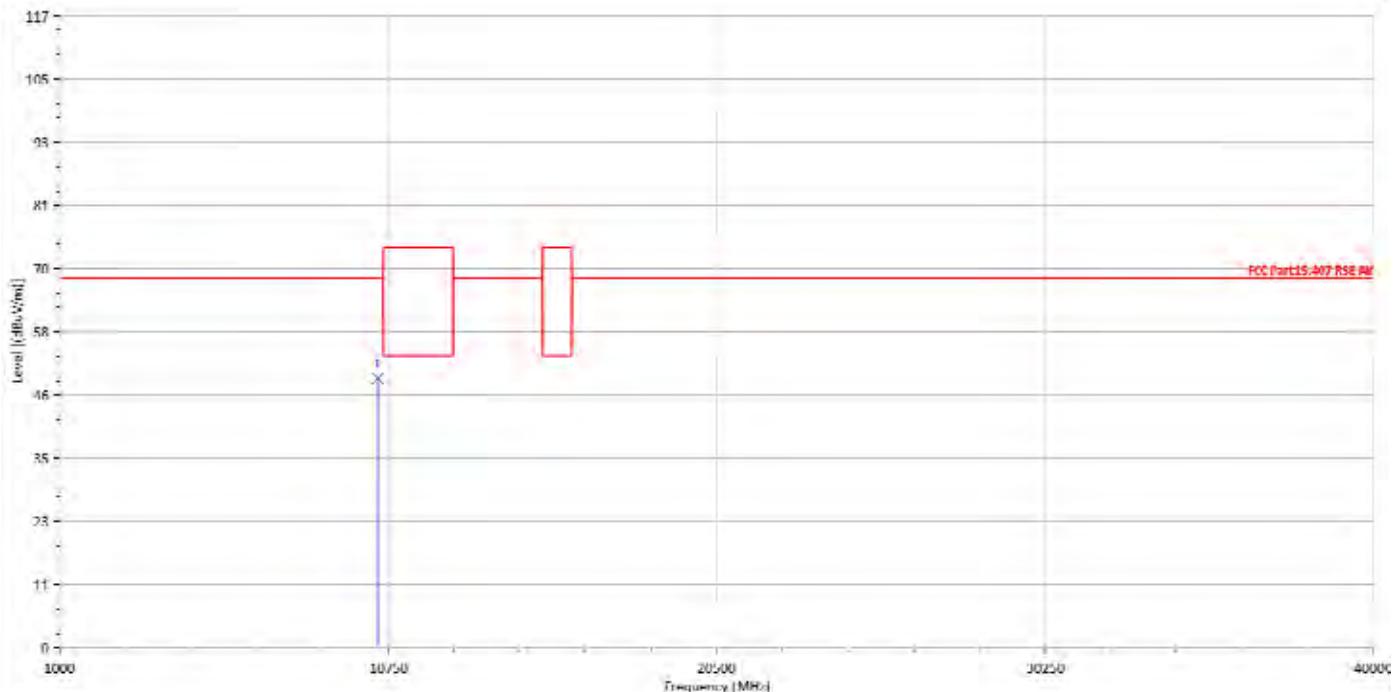
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5240 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10440.00	H	Peak	30.75	19.03	49.77	68.3	-18.53

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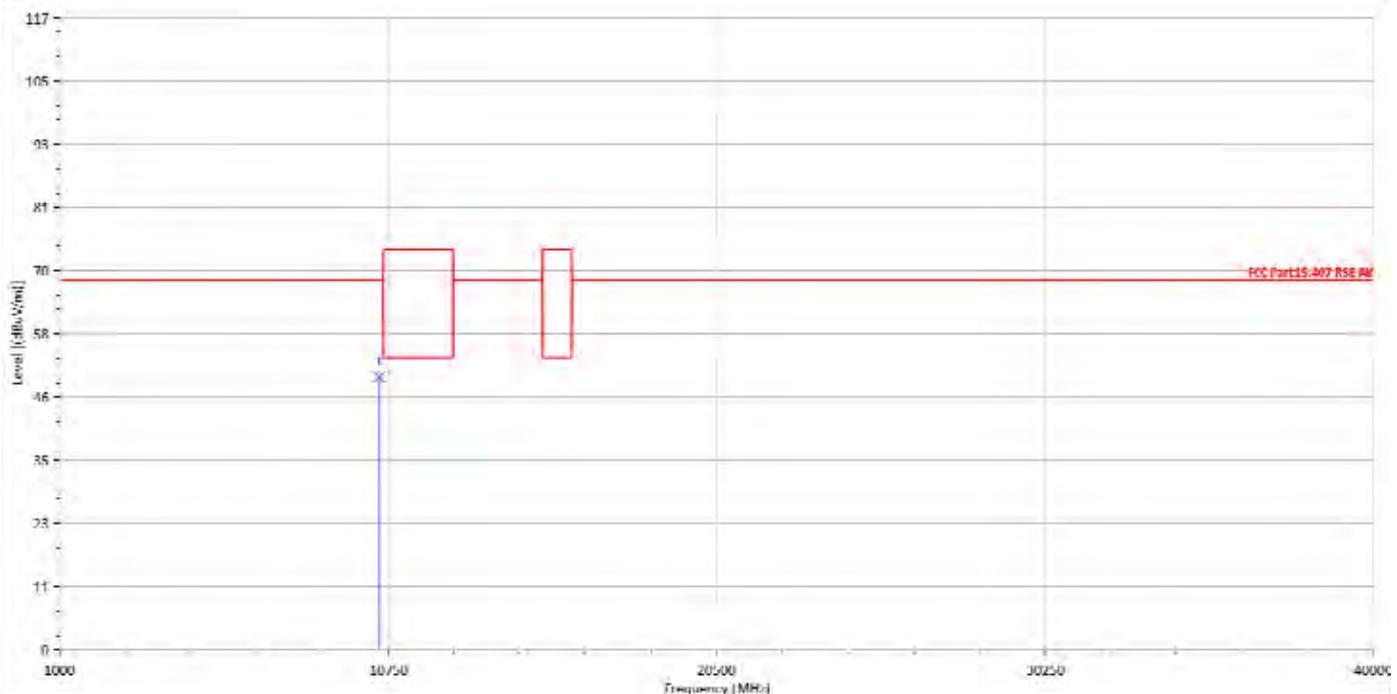
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5240 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	31.31	19.13	50.44	68.3	-17.86

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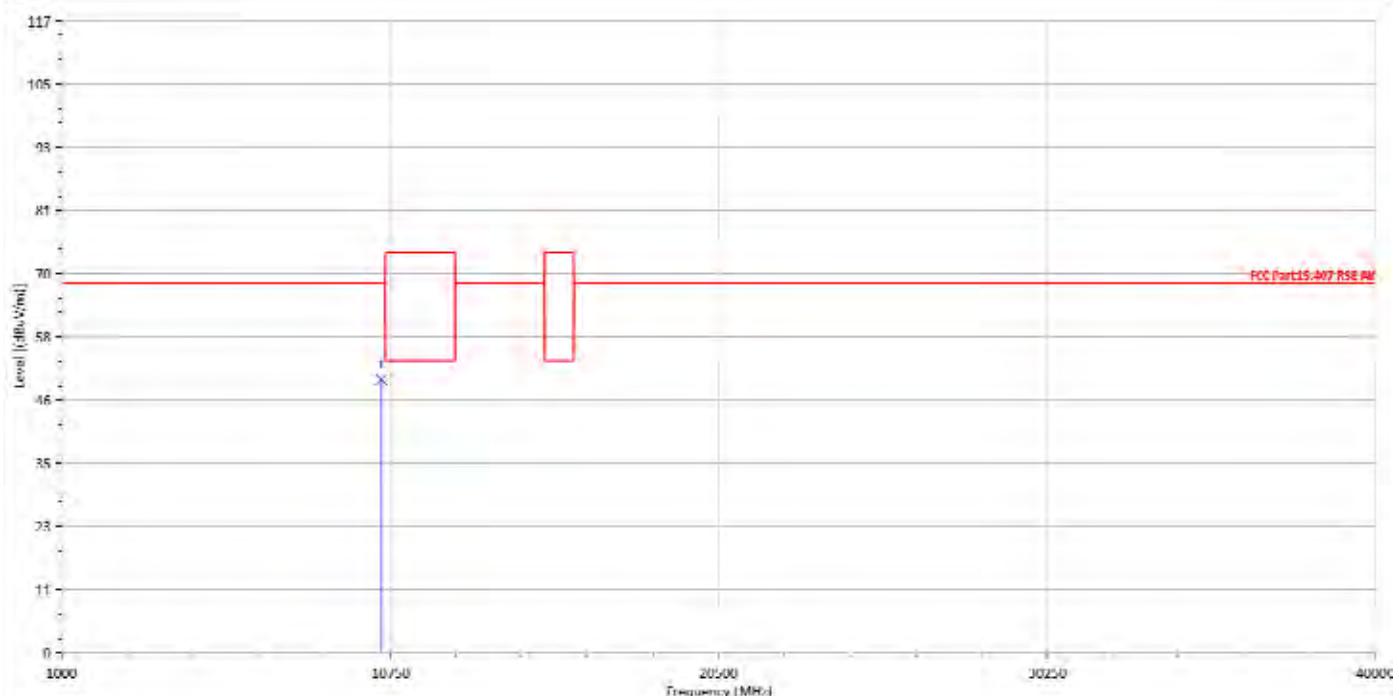
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5260 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10480.00	H	Peak	31.37	19.13	50.50	68.3	-17.80

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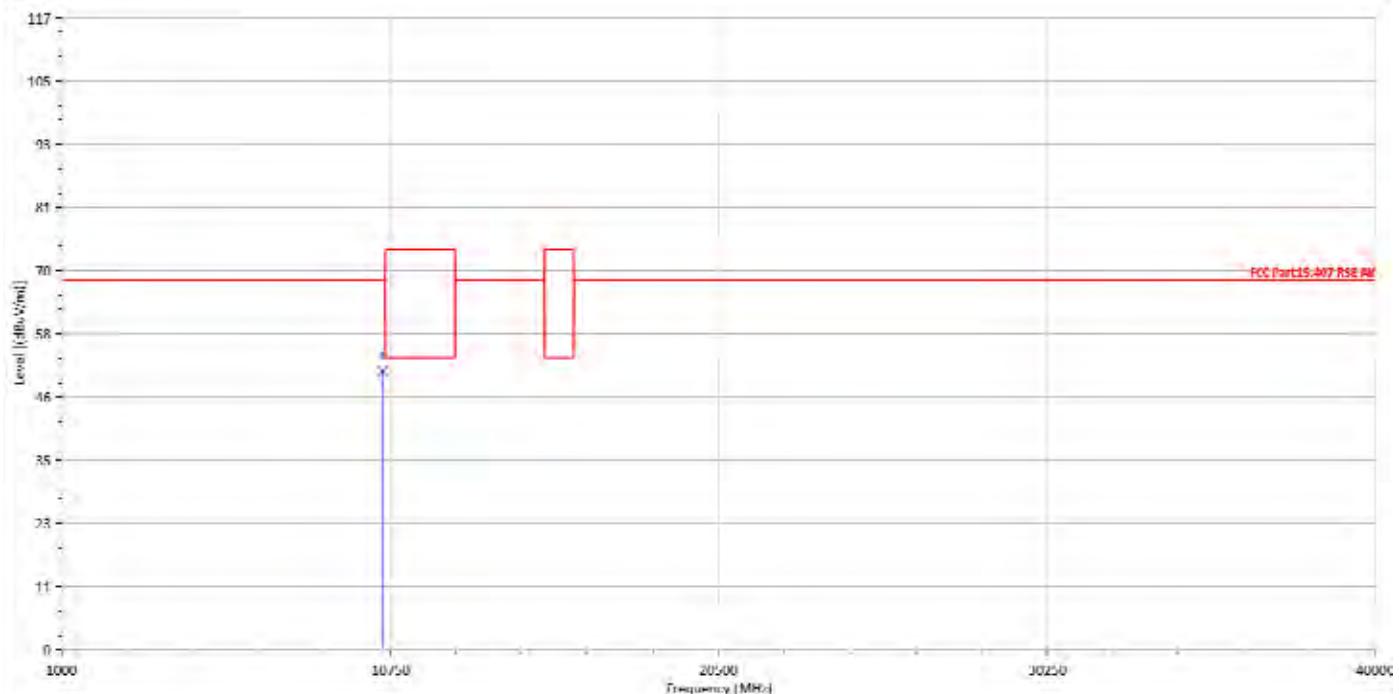
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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5260 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10520.00	H	Peak	32.27	19.25	51.52	68.3	-16.78

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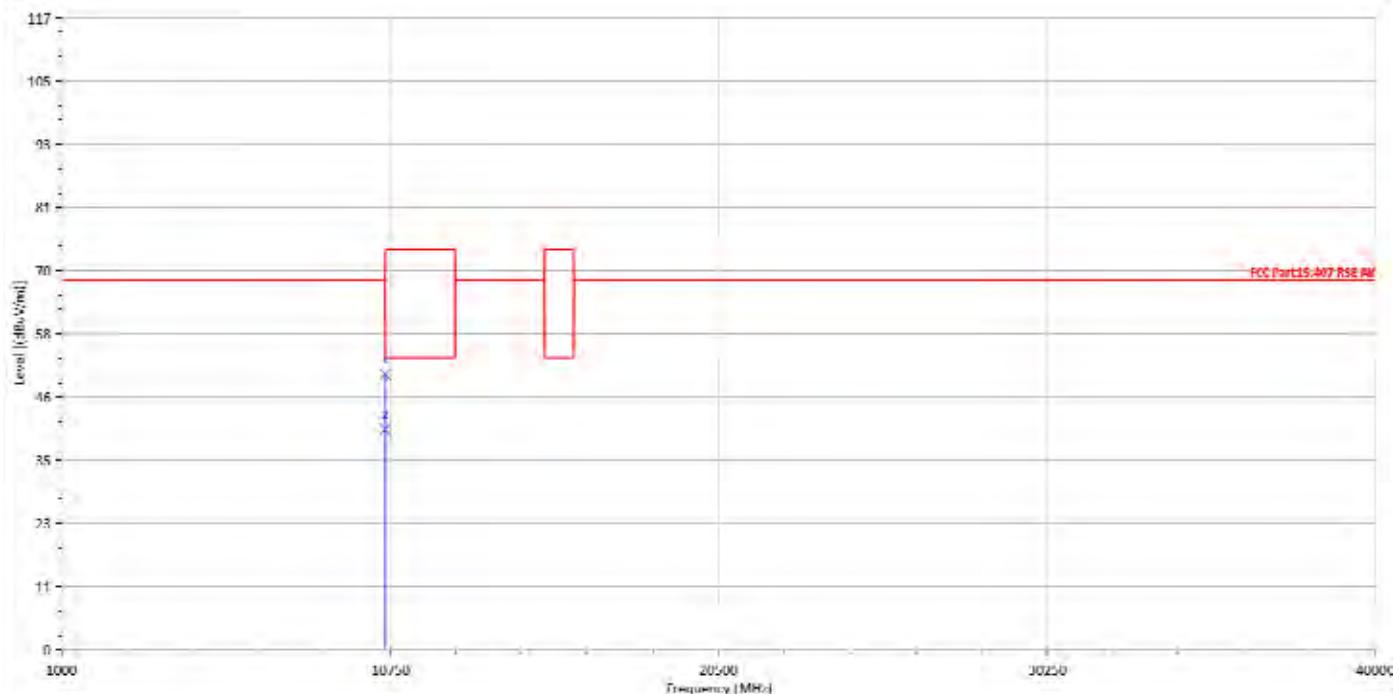
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	31.55	19.38	50.93	74	-23.07
10600.00	H	Average	21.42	19.38	40.80	54	-13.20

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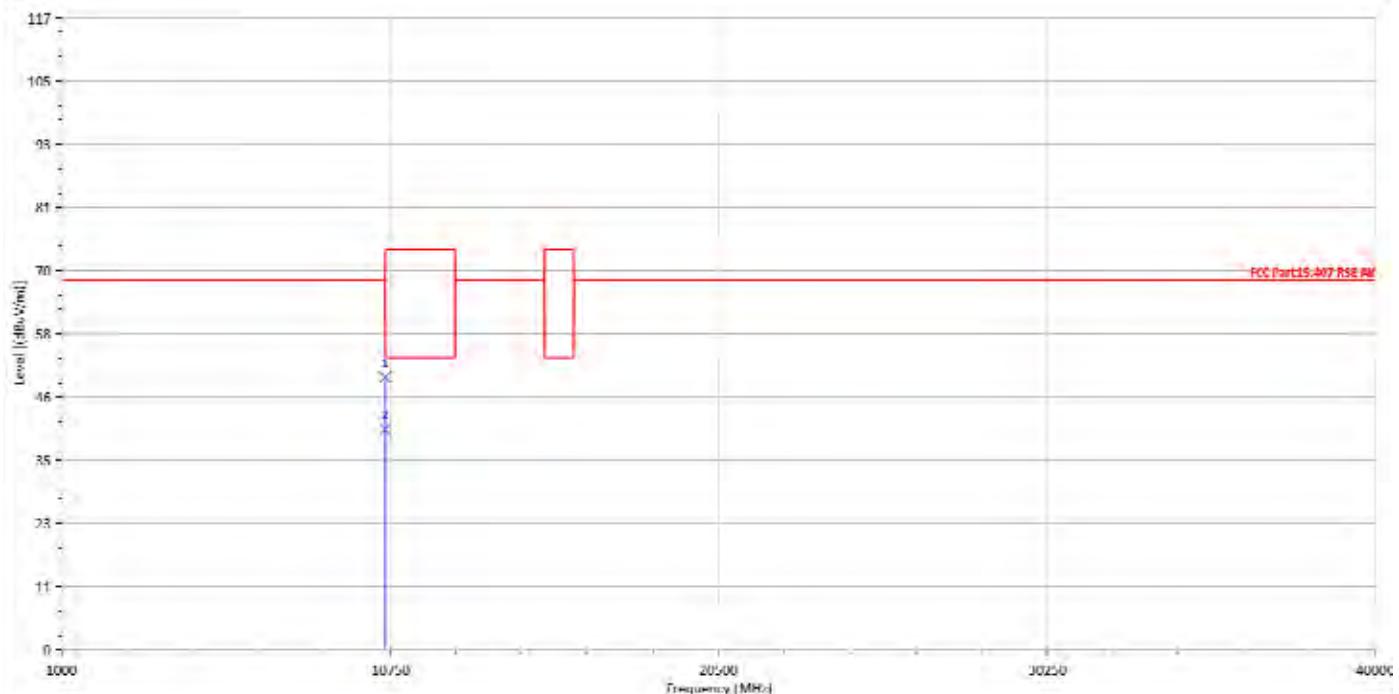
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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5300 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



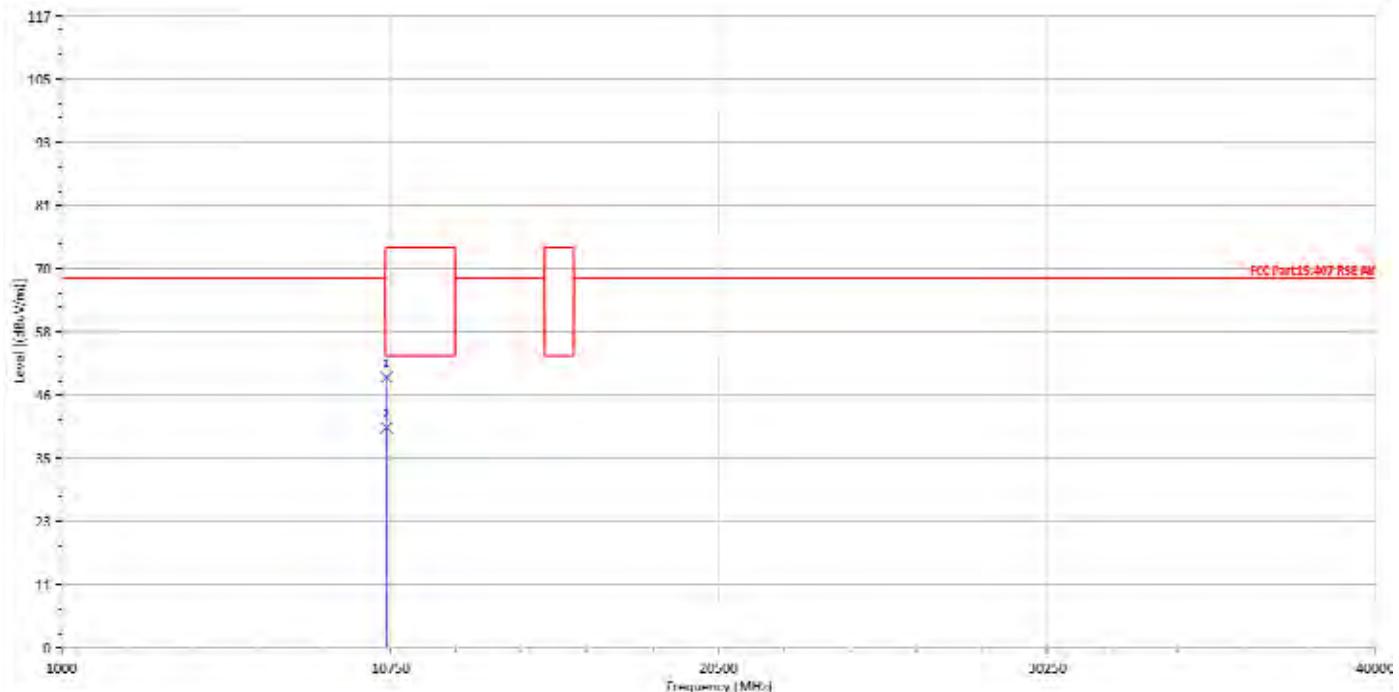
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.00	H	Peak	31.01	19.38	50.39	74	-23.61
10600.00	H	Average	21.40	19.38	40.78	54	-13.22

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Operation Mode : 802.11n20 Test Date : 2015/12/22
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



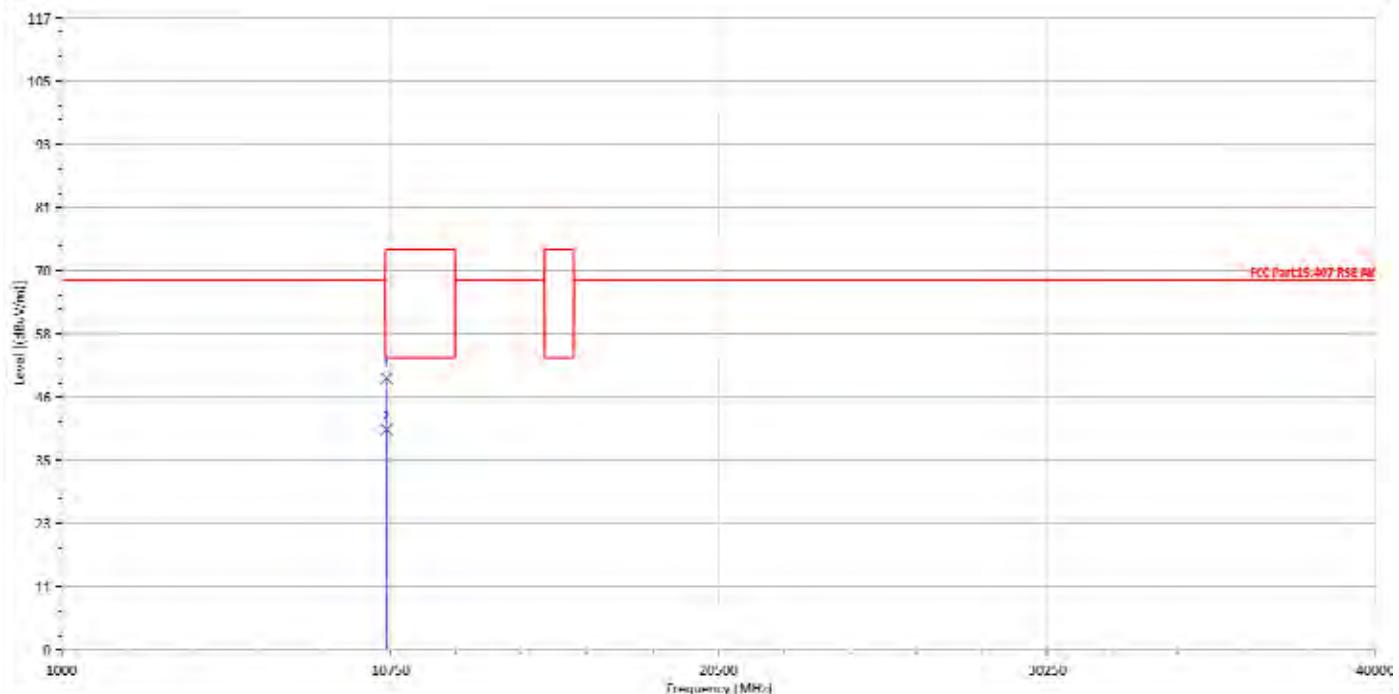
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	H	Peak	30.73	19.28	50.00	74	-24.00
10640.00	H	Average	21.43	19.28	40.71	54	-13.29

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10640.00	H	Peak	30.92	19.28	50.20	74	-23.80
10640.00	H	Average	21.47	19.28	40.75	54	-13.25

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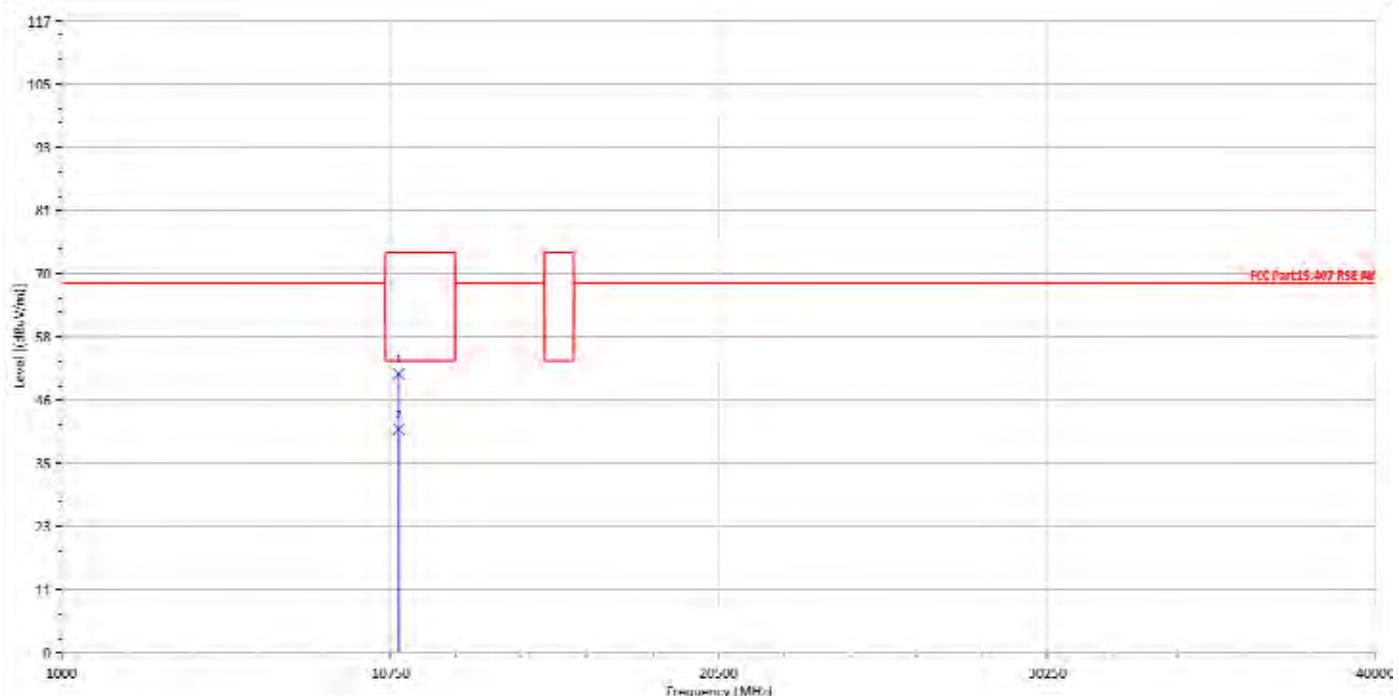
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



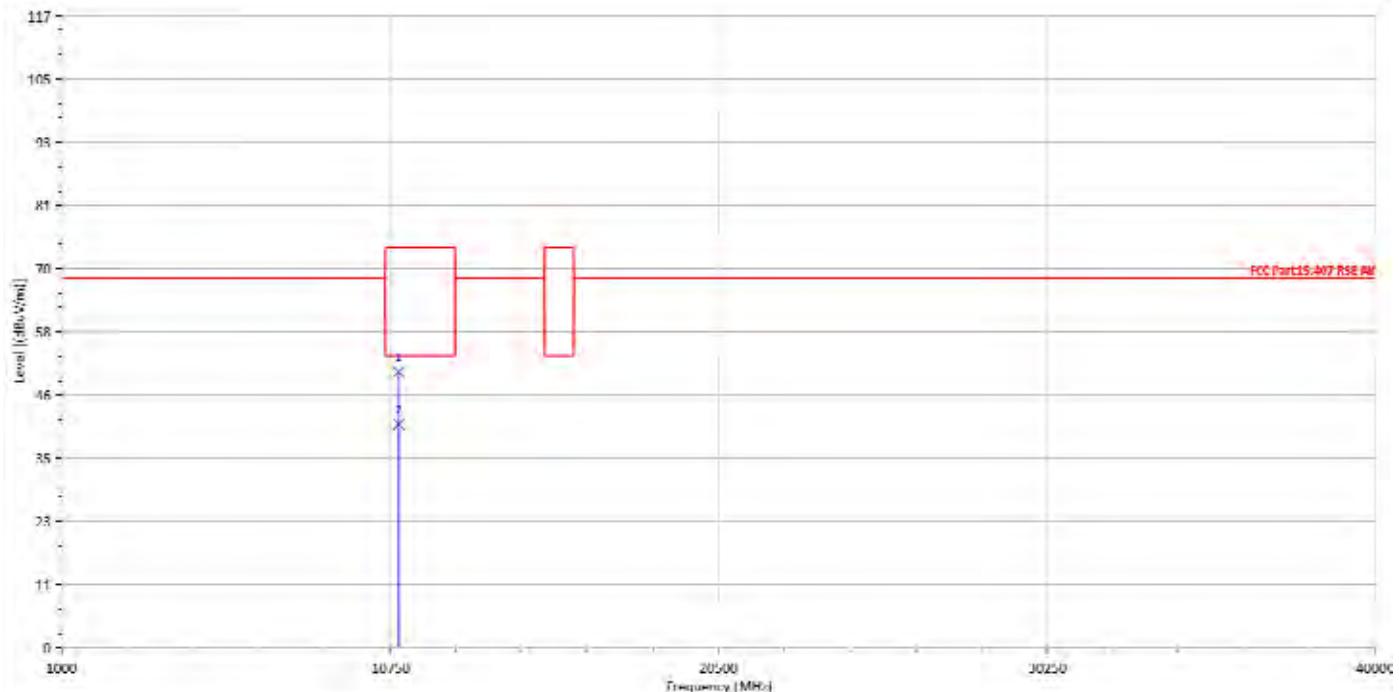
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11000.00	H	Peak	31.56	20.02	51.57	74	-22.43
11000.00	H	Average	21.35	20.02	41.37	54	-12.63

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11000.00	H	Peak	30.98	20.02	51.00	74	-23.00
11000.00	H	Average	21.32	20.02	41.34	54	-12.66

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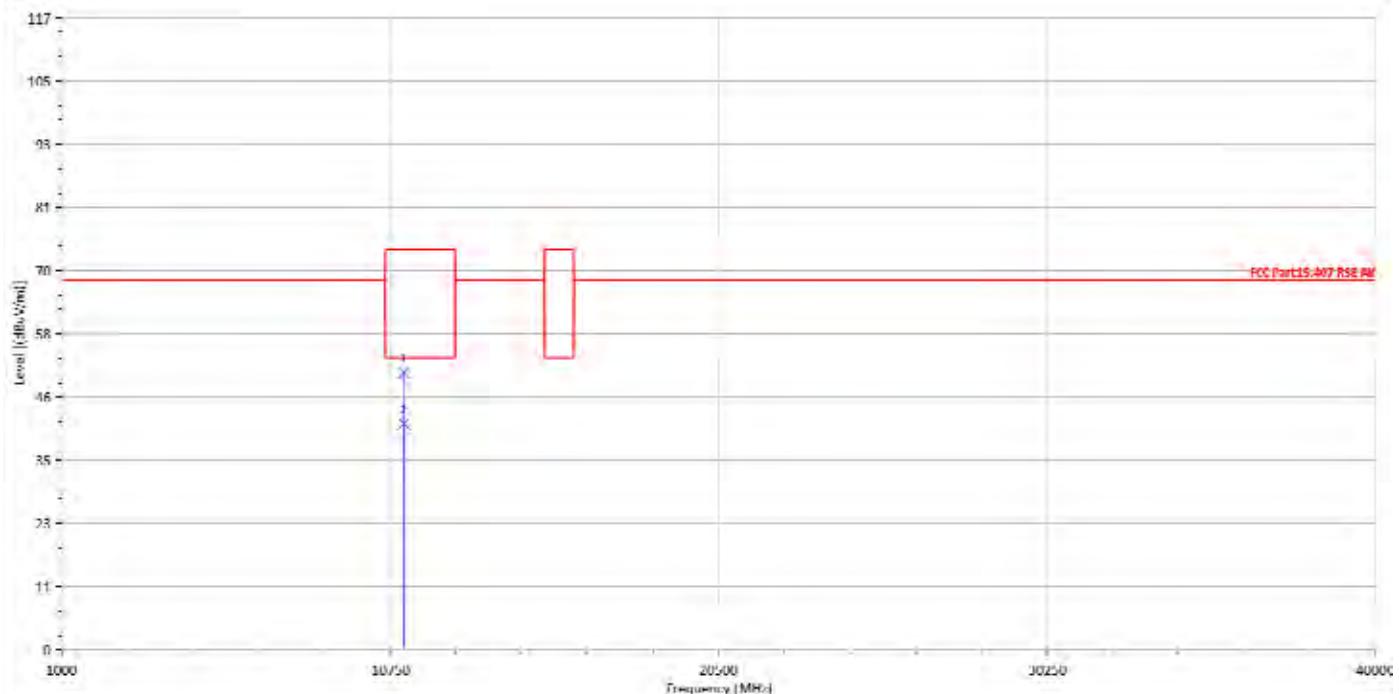
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Operation Mode : 802.11n20 Test Date : 2015/12/31
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



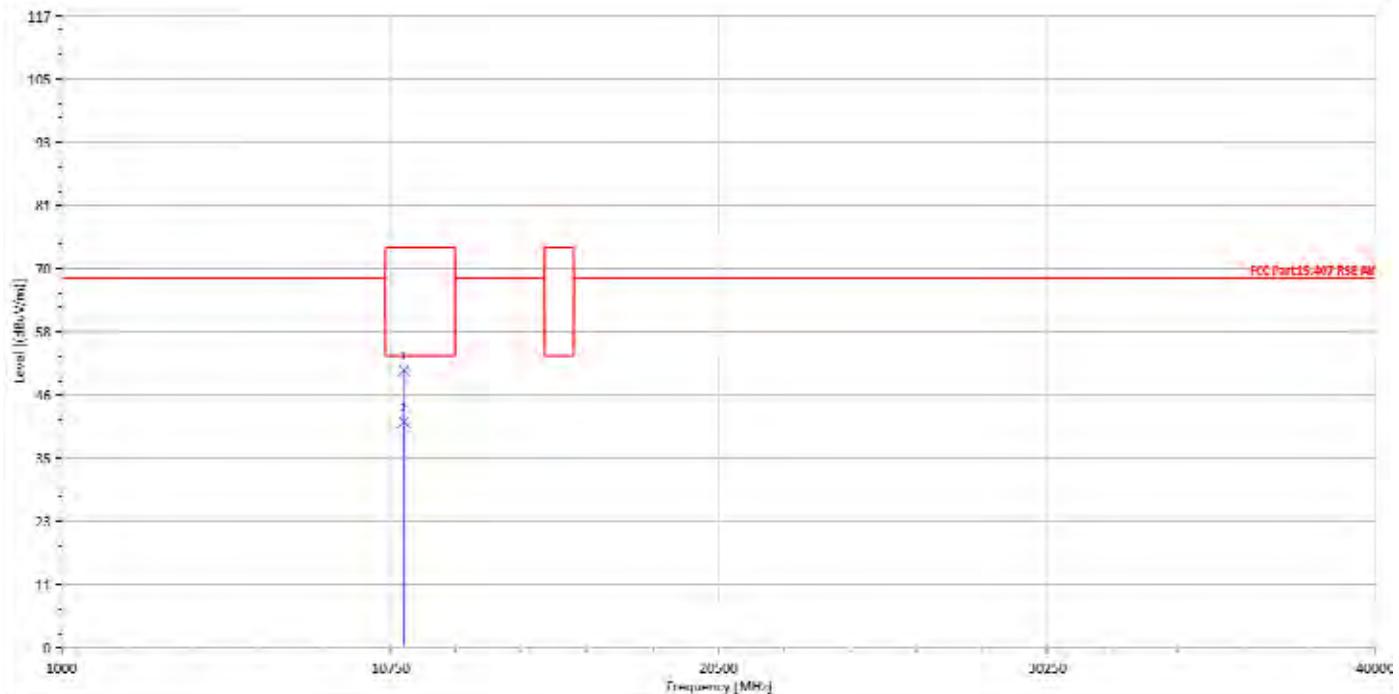
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	30.80	20.38	51.18	74	-22.82
11160.00	H	Average	21.44	20.38	41.82	54	-12.18

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Operation Mode : 802.11n20 Test Date : 2015/12/31
 Fundamental Frequency : 5580 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



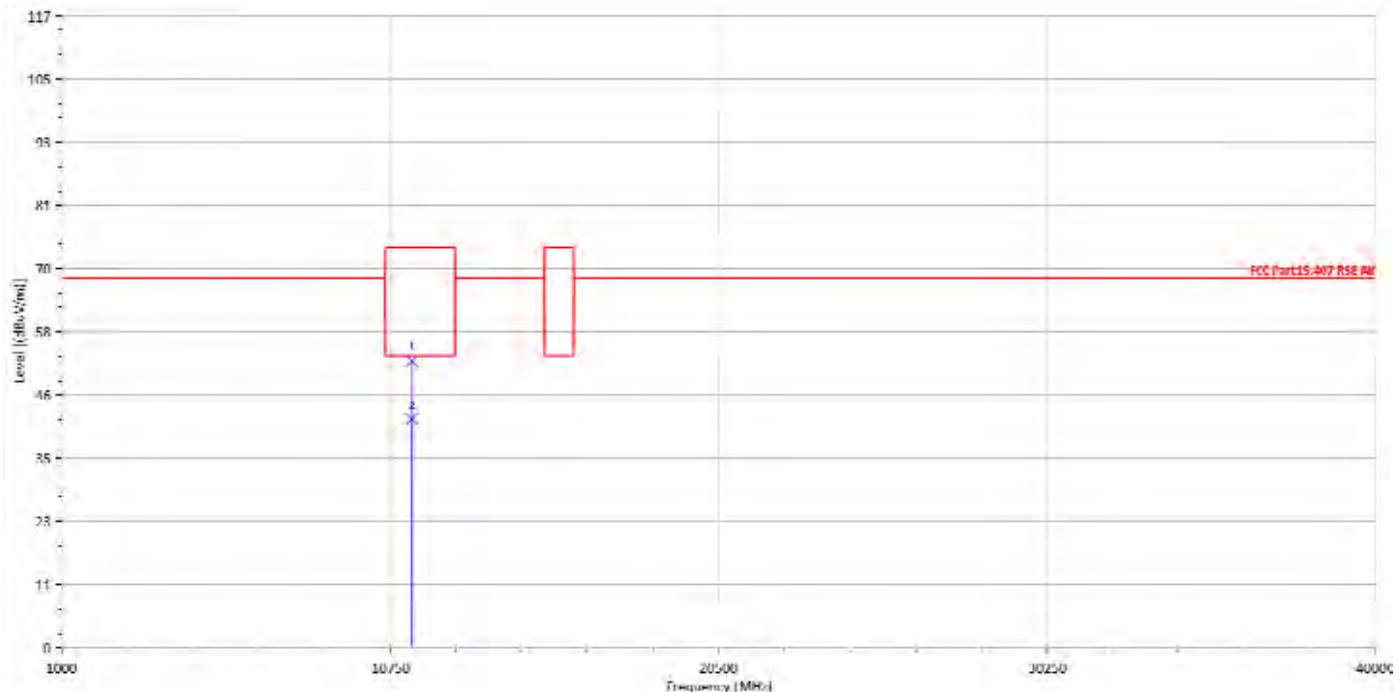
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.00	H	Peak	30.90	20.38	51.28	74	-22.72
11160.00	H	Average	21.40	20.38	41.78	54	-12.22

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11400.00	H	Peak	32.20	20.81	53.01	74	-20.99
11400.00	H	Average	21.54	20.81	42.35	54	-11.65

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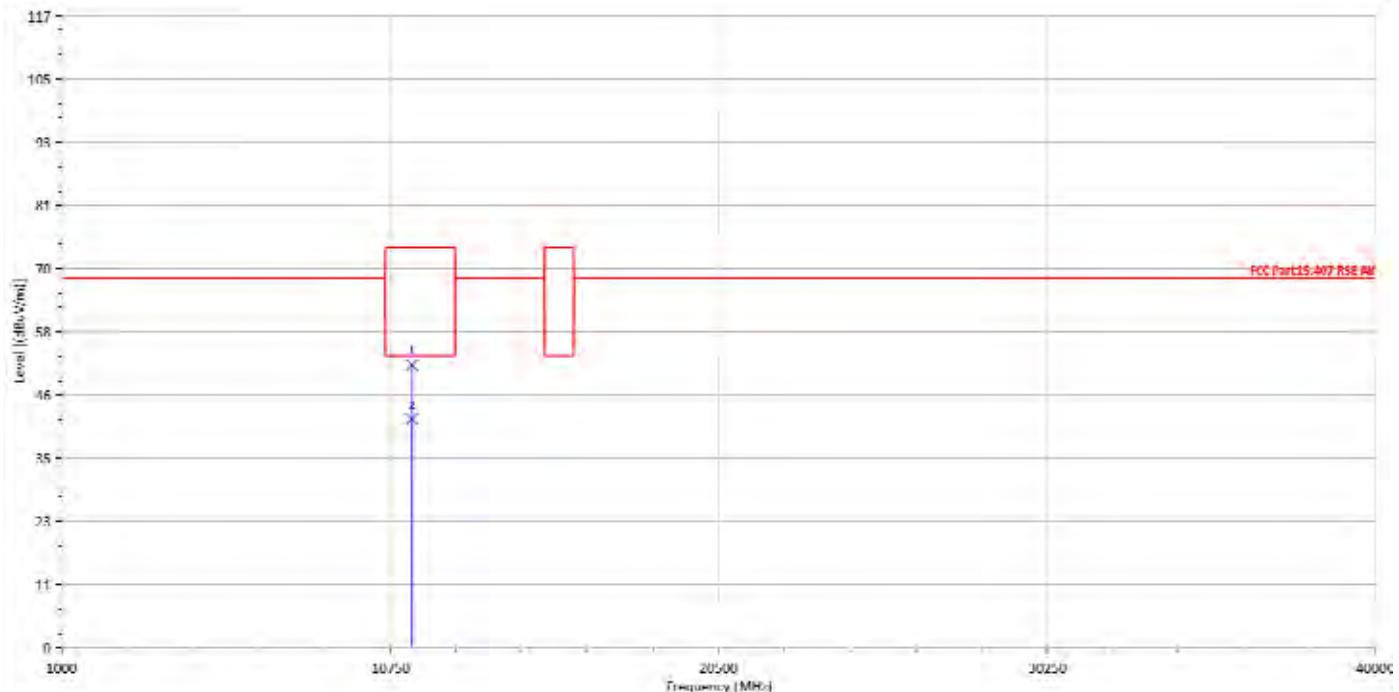
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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11400.00	H	Peak	31.47	20.81	52.28	74	-21.72
11400.00	H	Average	21.54	20.81	42.35	54	-11.65

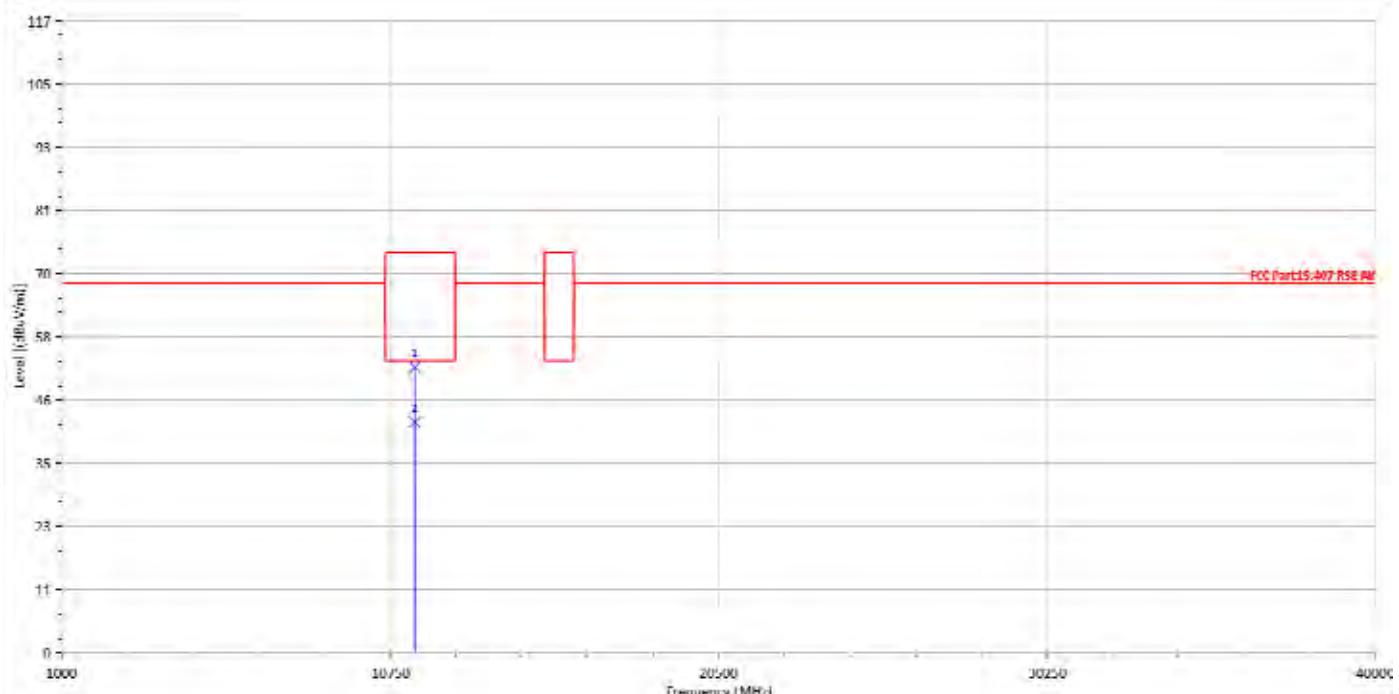
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 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
11490.00	H	Peak	31.71	21.08	52.79	74	-21.21
11490.00	H	Average	21.59	21.08	42.67	54	-11.33

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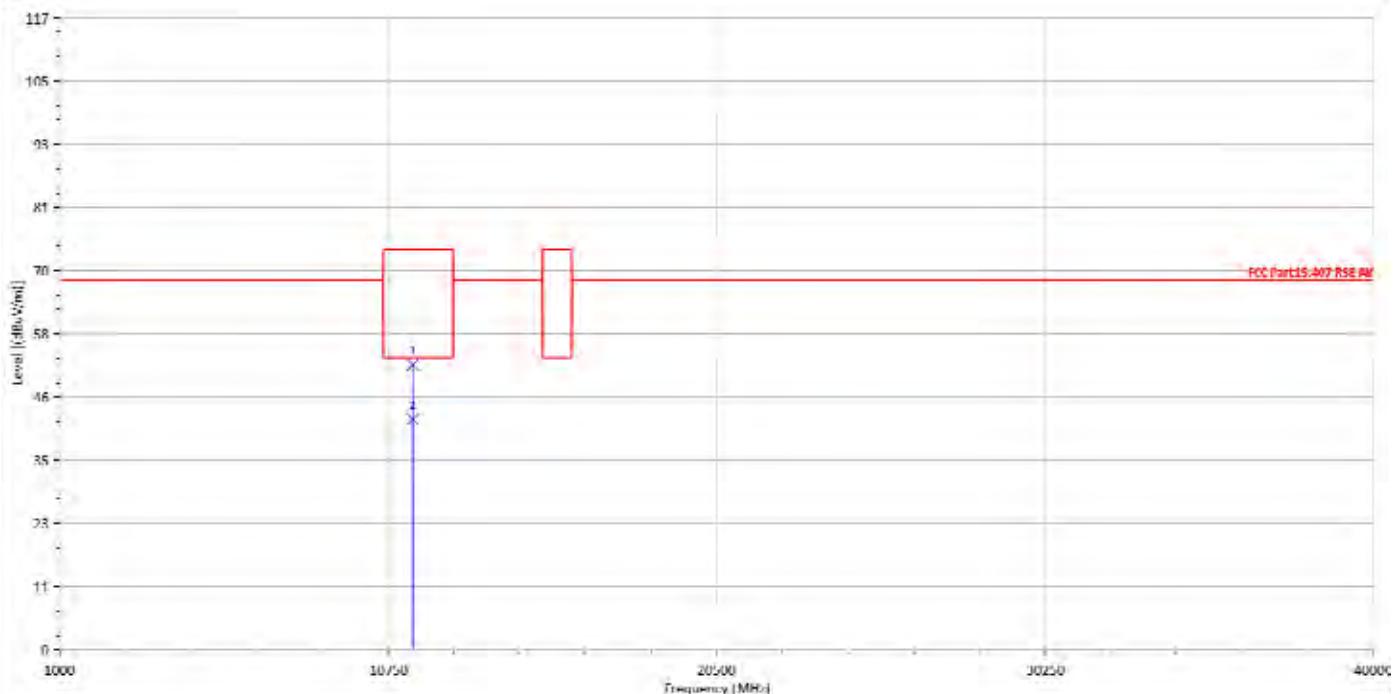
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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



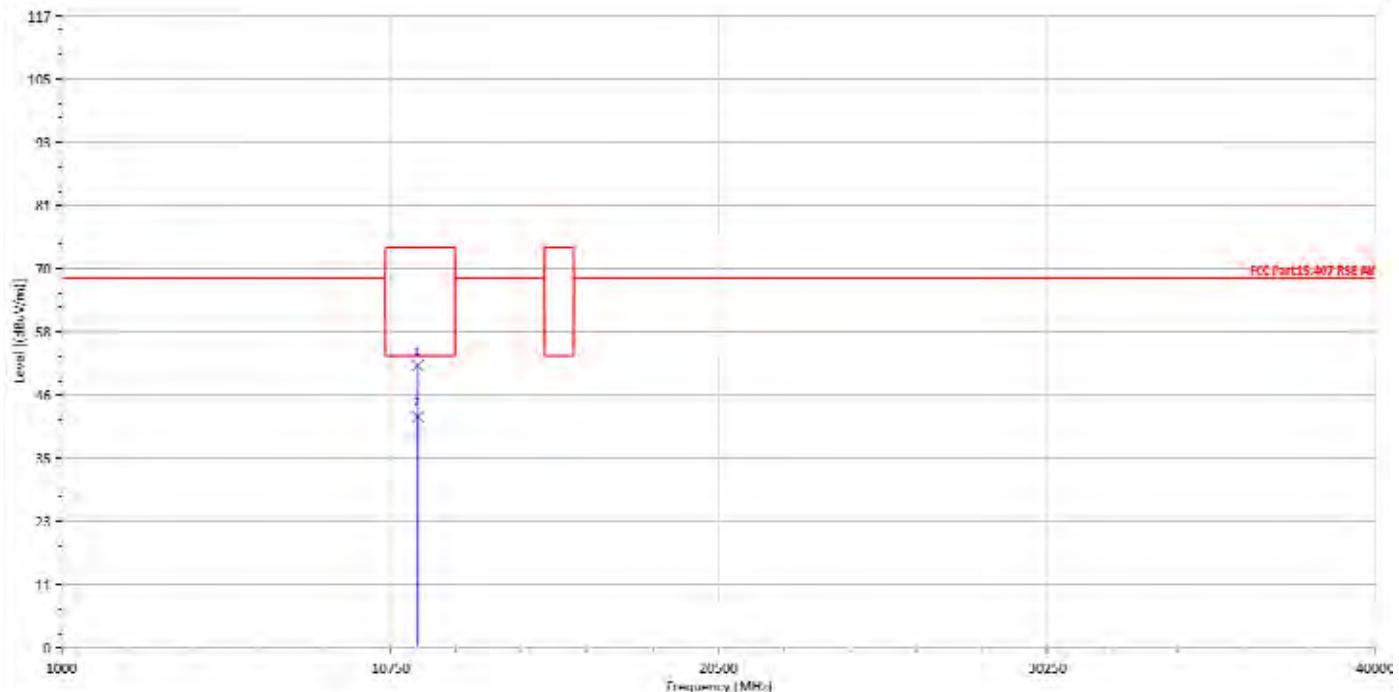
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11490.00	E	Peak	31.59	21.08	52.67	74	-21.33
11490.00	E	Average	21.58	21.08	42.66	54	-11.34

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



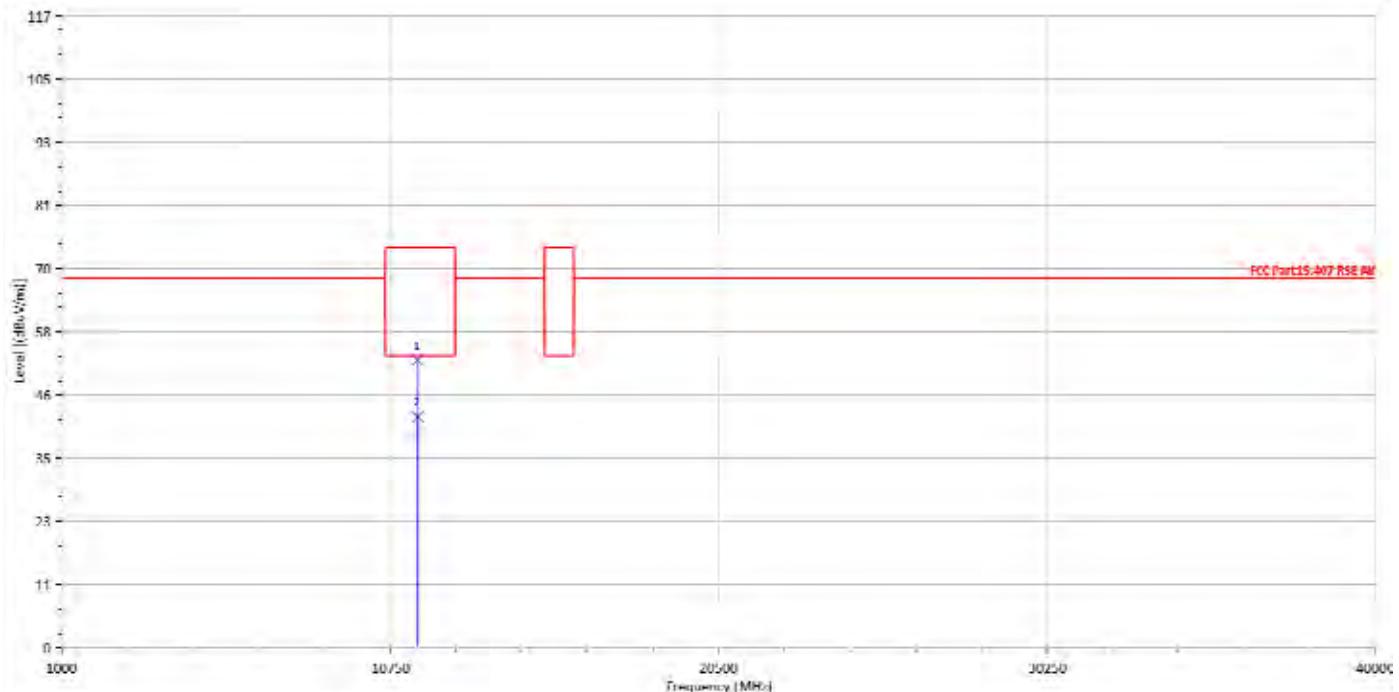
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11570.00	H	Peak	31.07	21.14	52.20	74	-21.80
11570.00	H	Average	21.61	21.15	42.76	54	-11.24

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5785 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



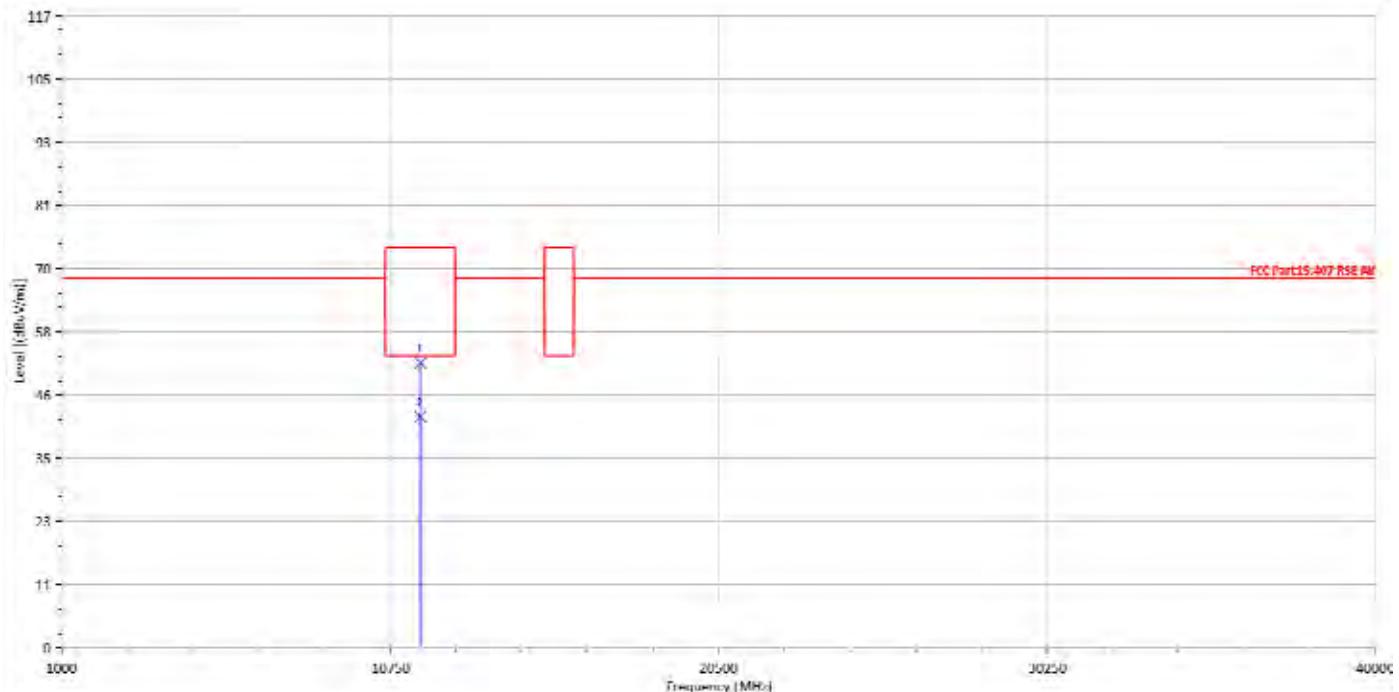
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11570.00	H	Peak	32.09	21.14	53.22	74	-20.78
11570.00	H	Average	21.60	21.14	42.74	54	-11.26

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



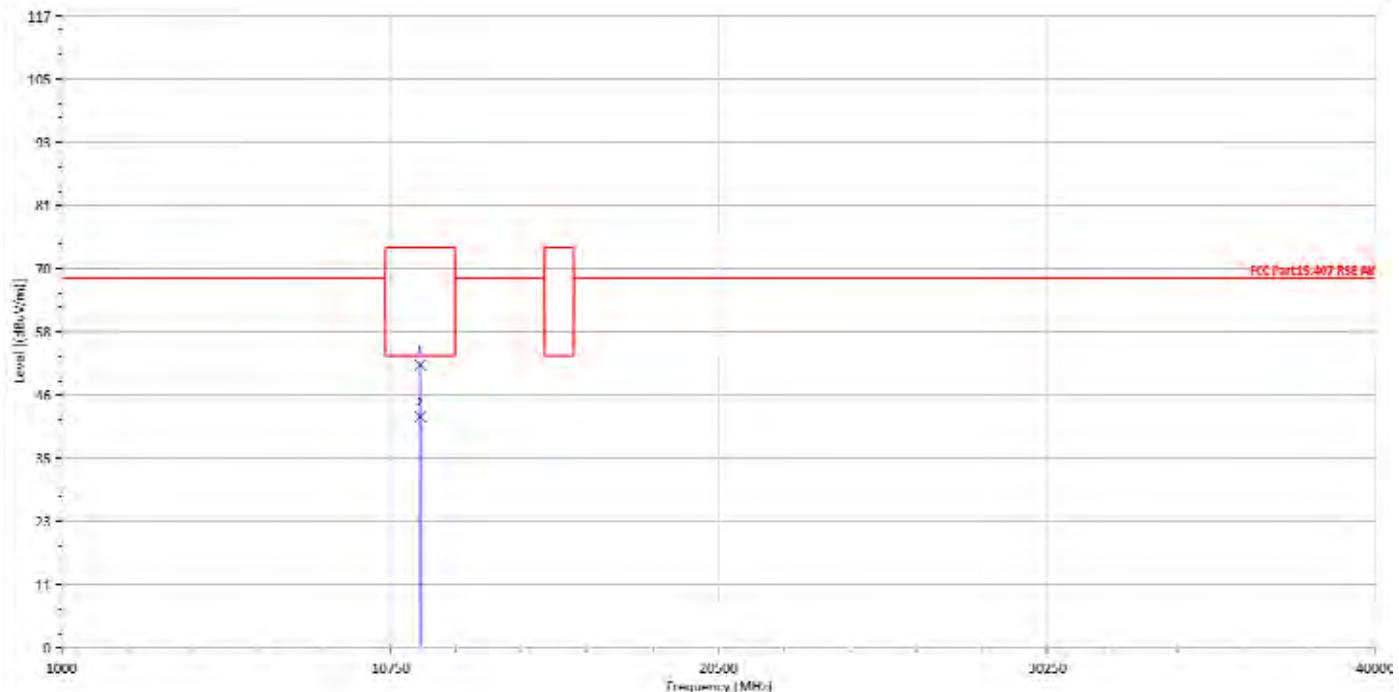
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	31.41	21.27	52.69	74	-21.31
11650.00	H	Average	21.48	21.27	42.75	54	-11.25

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Operation Mode : 802.11n20 Test Date : 2015/12/31
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11650.00	H	Peak	31.06	21.27	52.34	74	-21.66
11650.00	H	Average	21.50	21.27	42.77	54	-11.23

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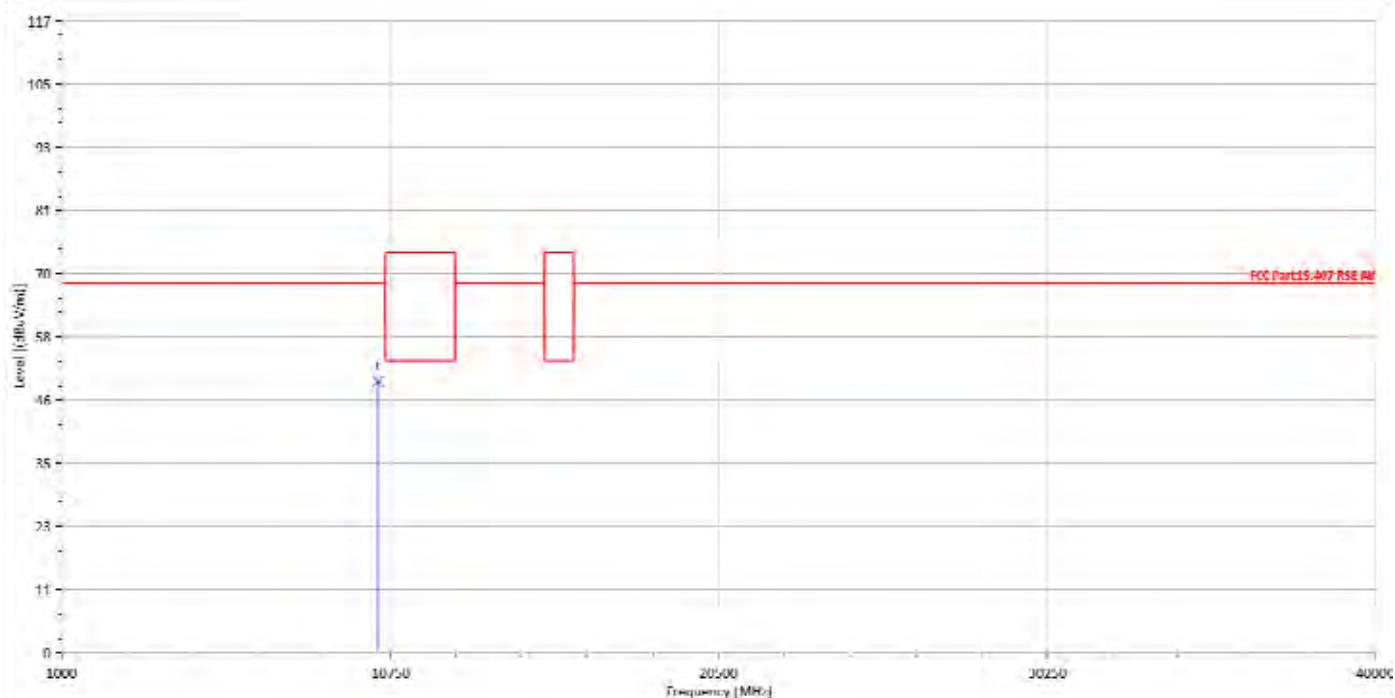
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5190 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



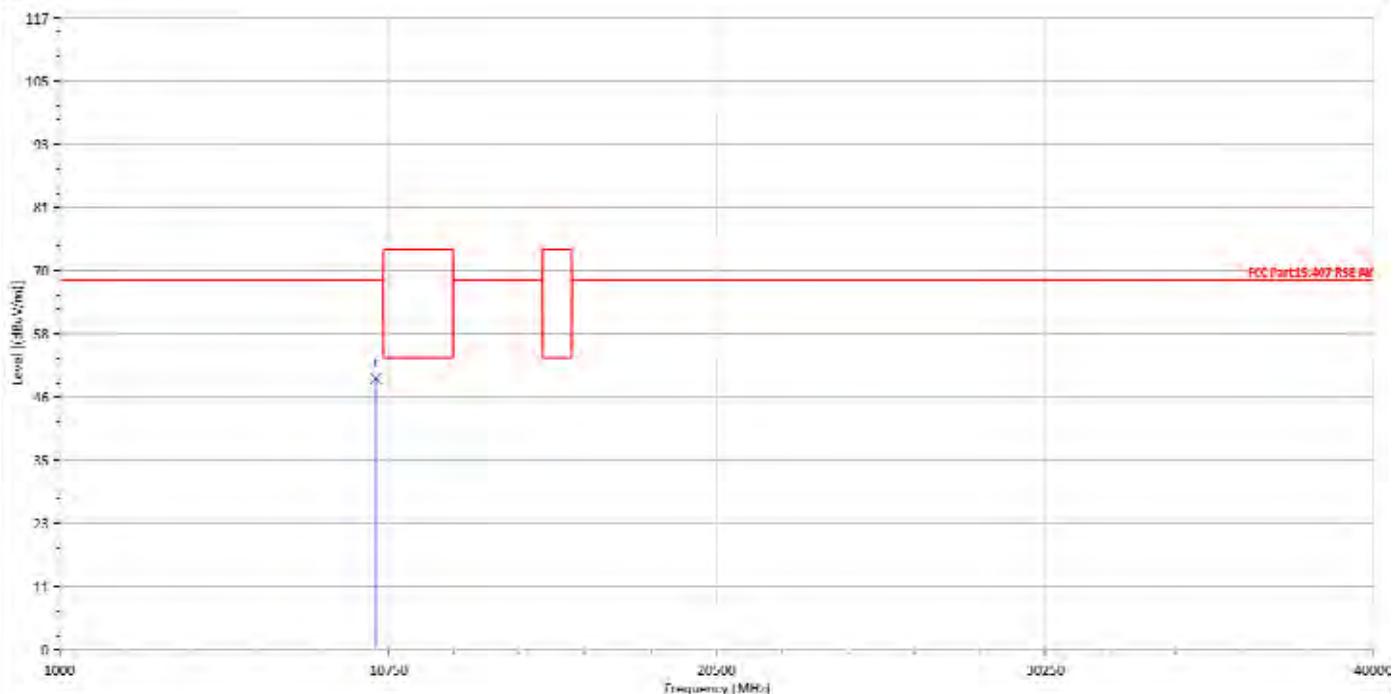
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	H	Peak	31.17	19.01	50.19	68.3	-18.11

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Operation Mode : 802.11n40 Test Date : 2015/12/22
 Fundamental Frequency : 5190 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



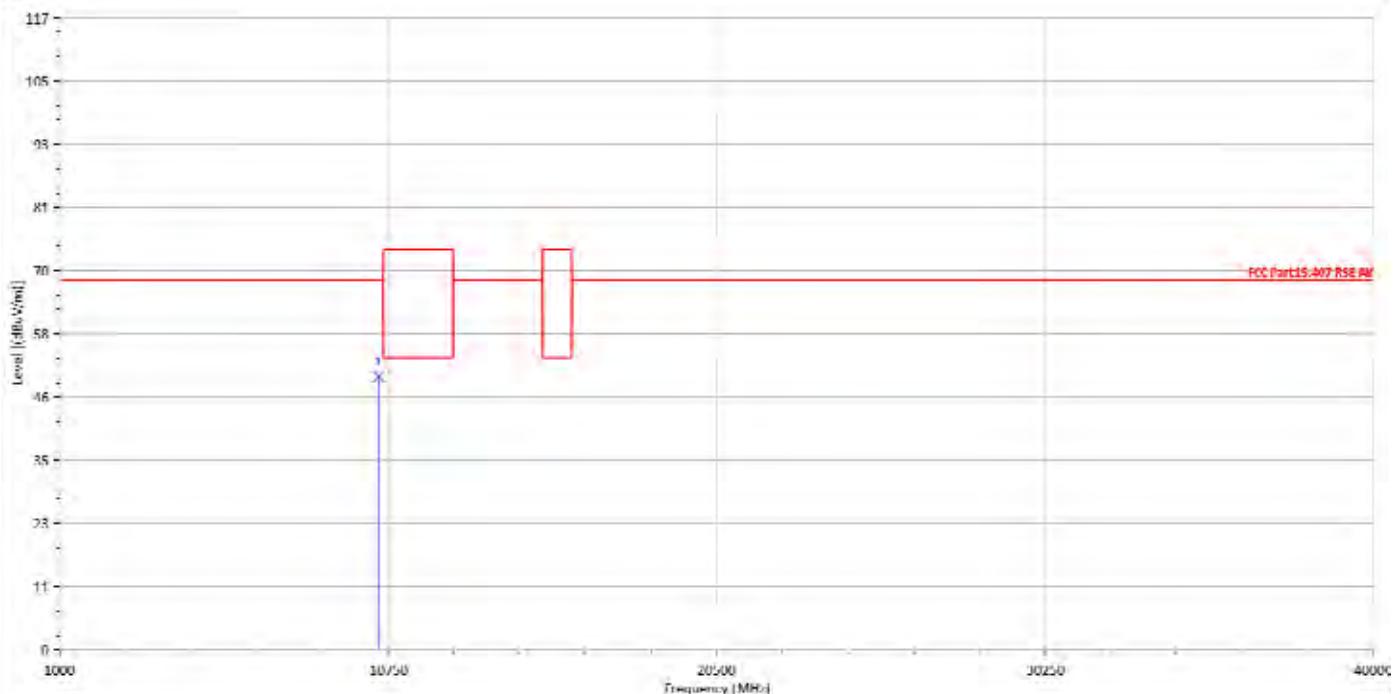
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10380.00	H	Peak	31.13	19.01	50.15	68.3	-18.15

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Operation Mode : 802.11n40 Test Date : 2015/12/22
 Fundamental Frequency : 5230 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	H	Peak	31.35	19.11	50.46	68.3	-17.84

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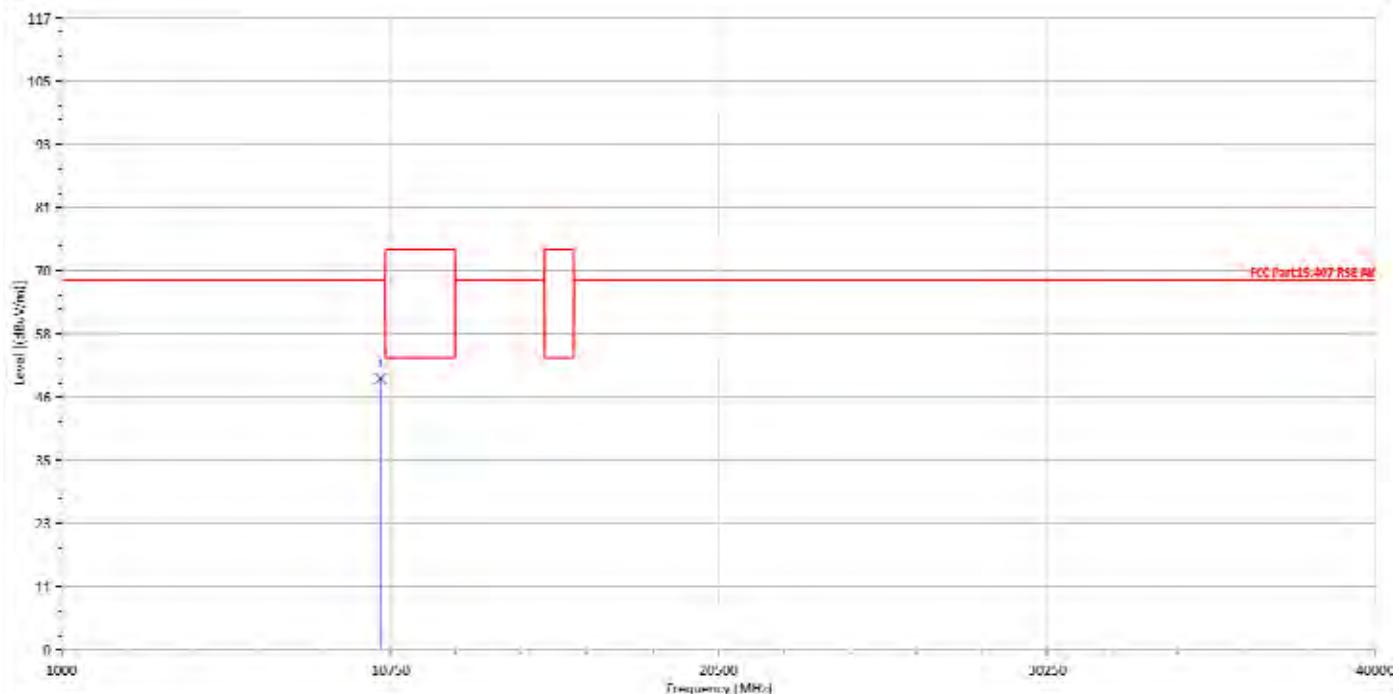
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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5230 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10460.00	H	Peak	31.01	19.11	50.12	68.3	-18.18

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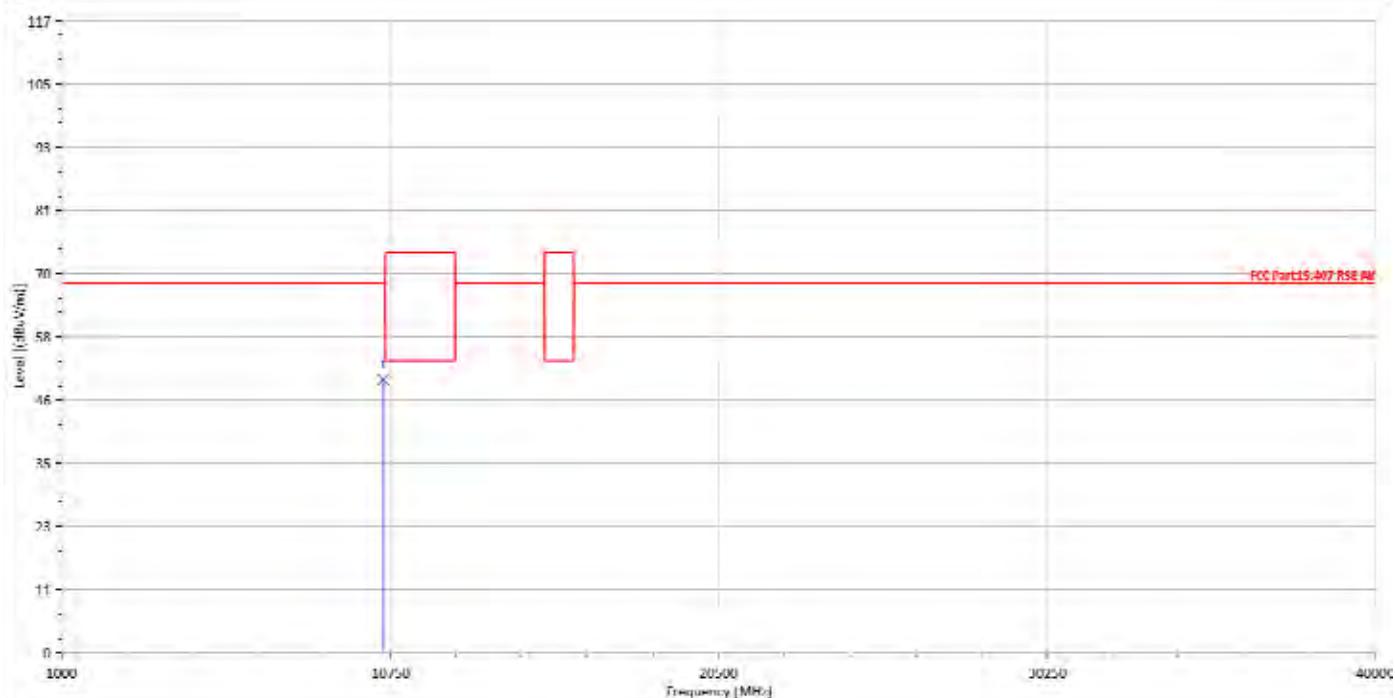
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Mode : 802.11n40 Test Date : 2015/12/31
 Fundamental Frequency : 5270 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



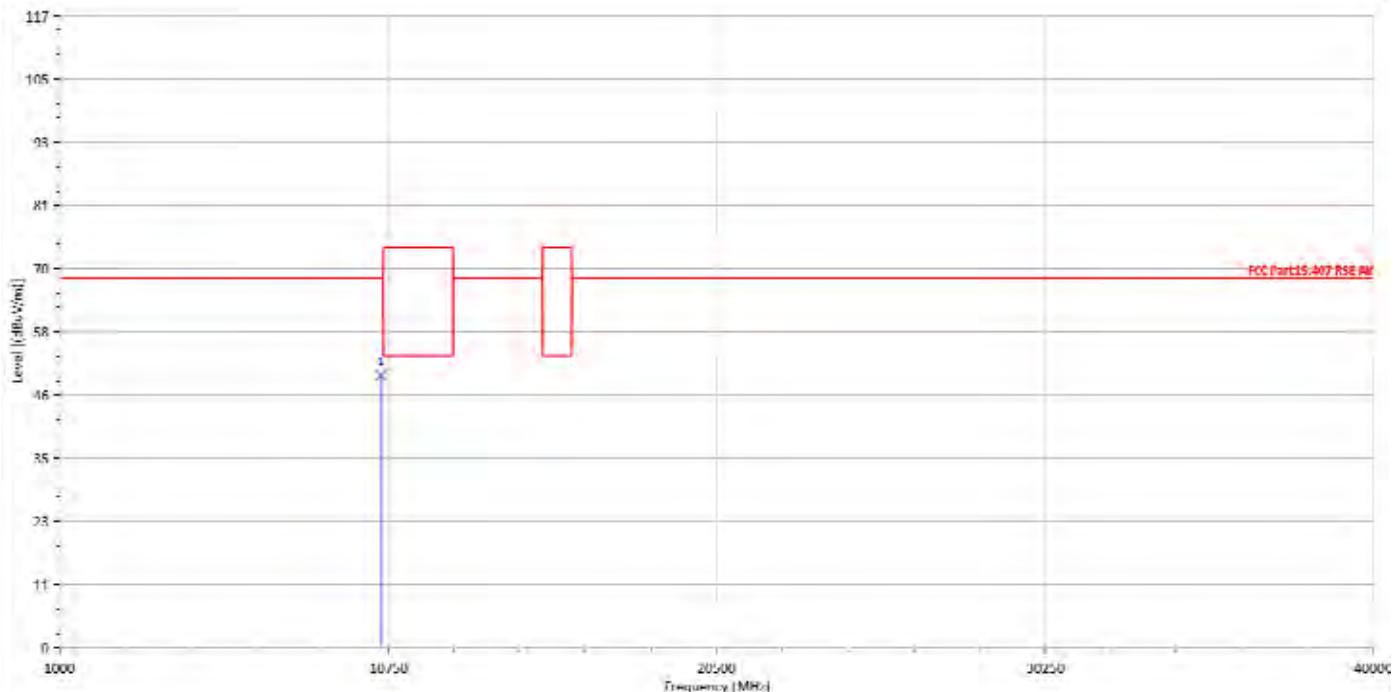
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	H	Peak	31.33	19.13	50.47	68.3	-17.83

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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5270 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10540.00	H	Peak	31.24	19.11	50.36	68.3	-17.94

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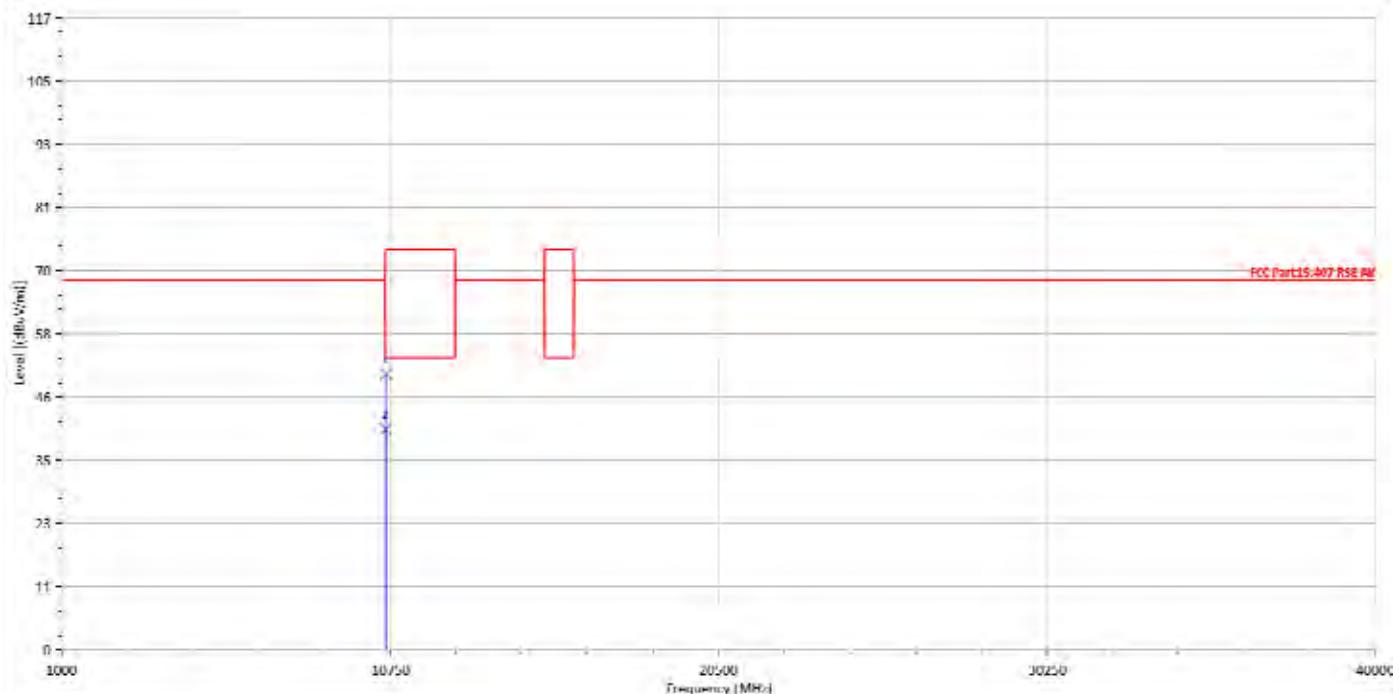
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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5310 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	H	Peak	31.55	19.38	50.92	74	-23.08
10620.00	H	Average	21.46	19.38	40.84	54	-13.16

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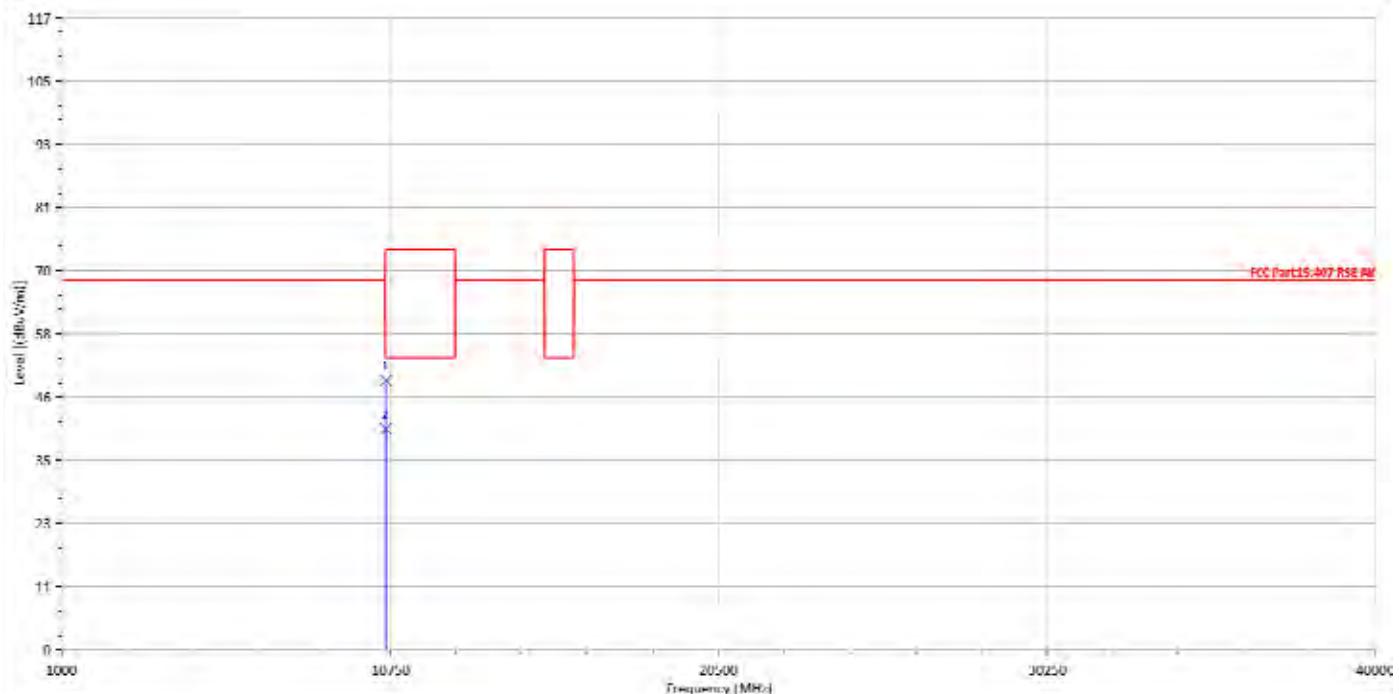
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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5310 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10620.00	H	Peak	30.35	19.38	49.73	74	-24.27
10620.00	H	Average	21.48	19.38	40.86	54	-13.14

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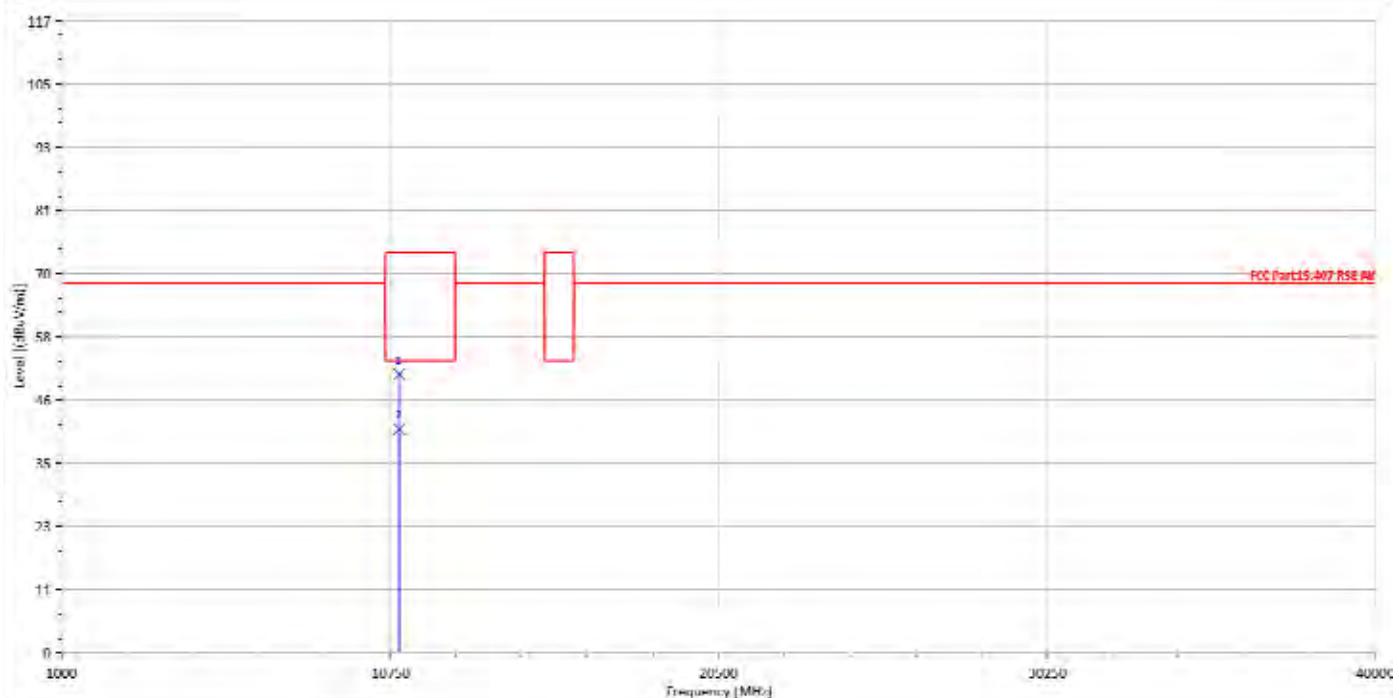
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



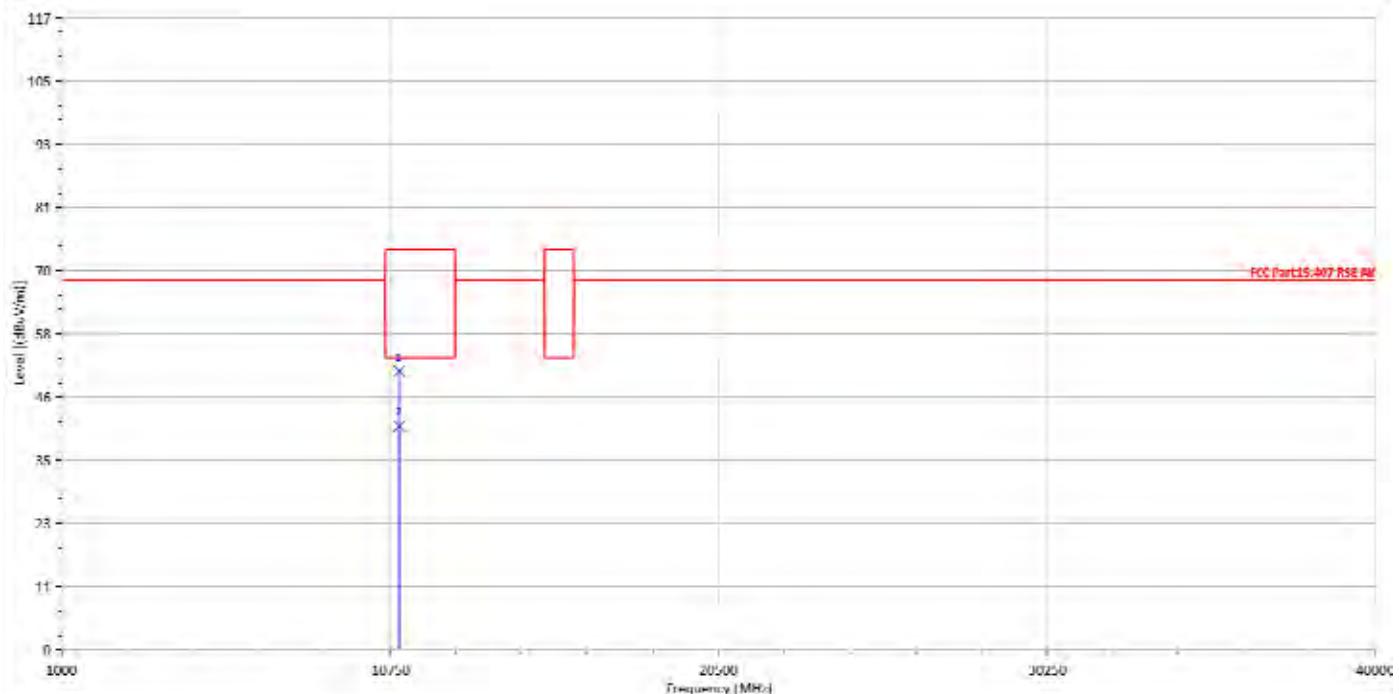
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
11020.00	H	Peak	31.43	20.04	51.48	74	-22.52
11020.00	H	Average	21.34	20.04	41.38	54	-12.62

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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
11020.00	H	Peak	31.46	20.04	51.51	74	-22.49
11020.00	H	Average	21.35	20.04	41.39	54	-12.61

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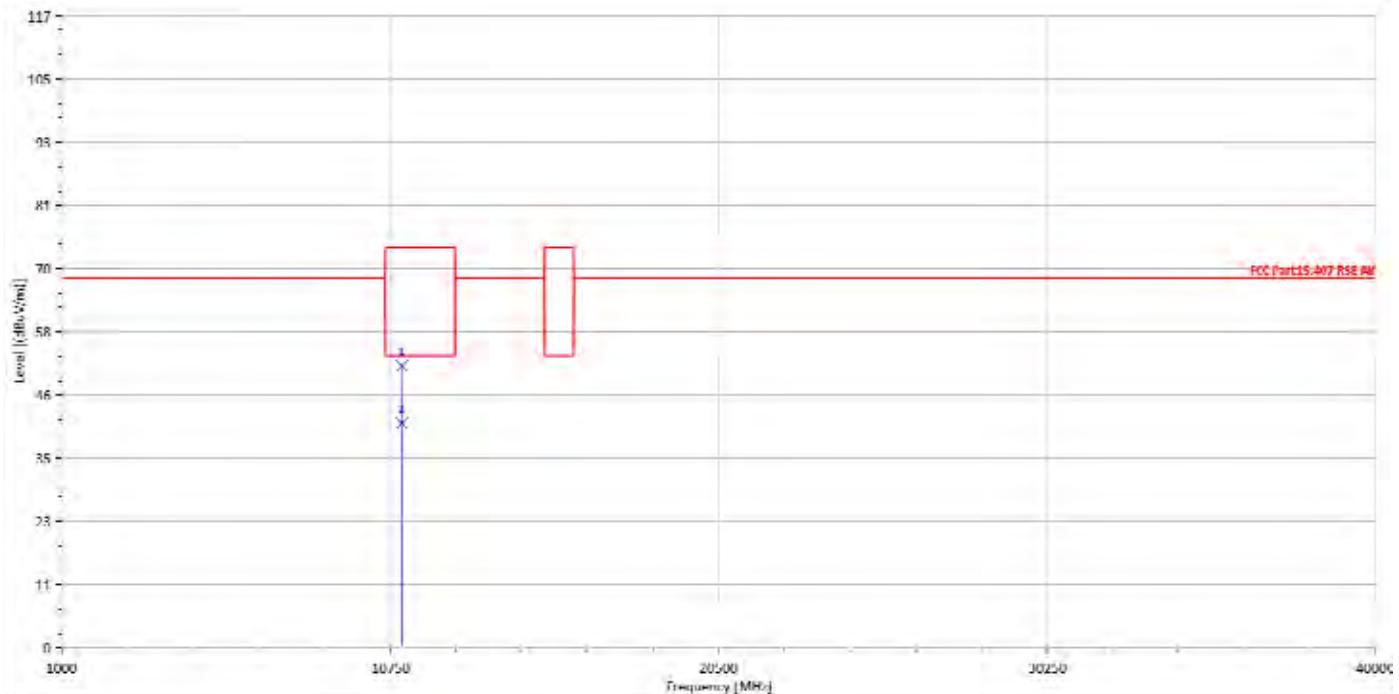
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Operation Mode : 802.11n40 Test Date : 2015/12/31
 Fundamental Frequency : 5550 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical



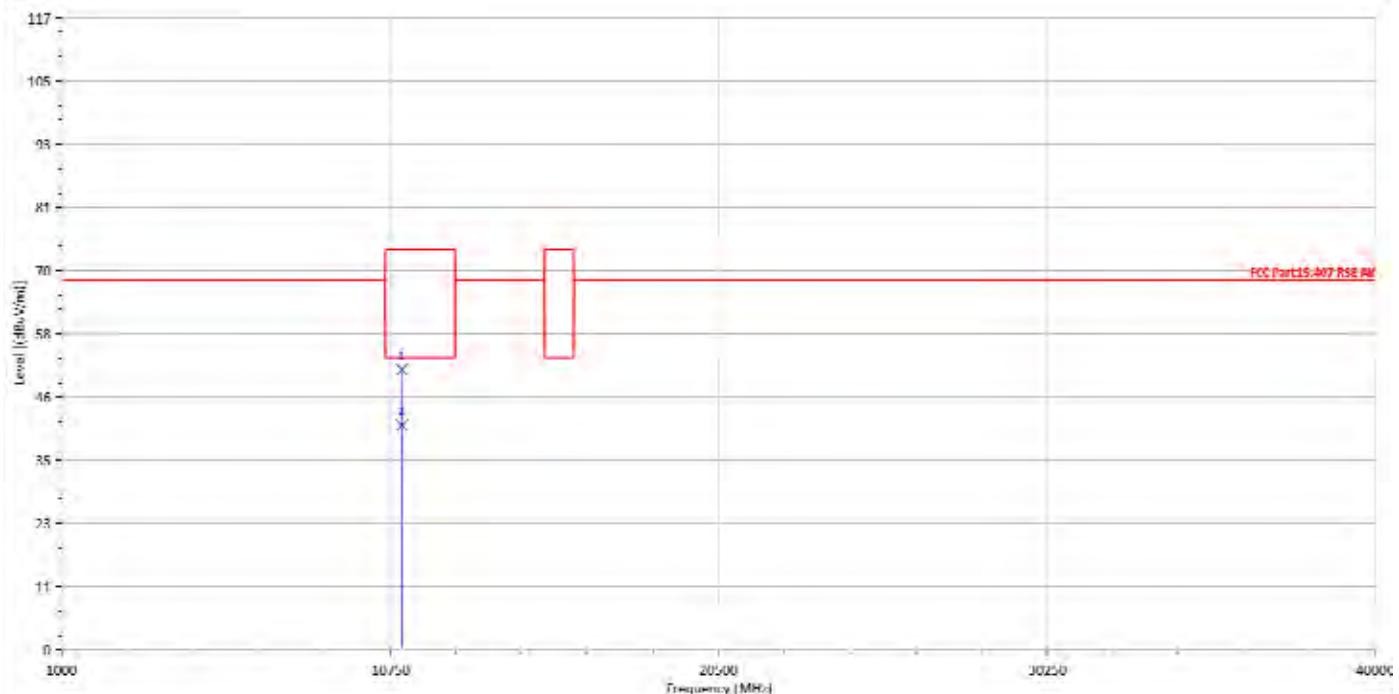
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11100.00	H	Peak	31.94	20.21	52.15	74	-21.85
11100.00	H	Average	21.39	20.21	41.60	54	-12.40

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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5550 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



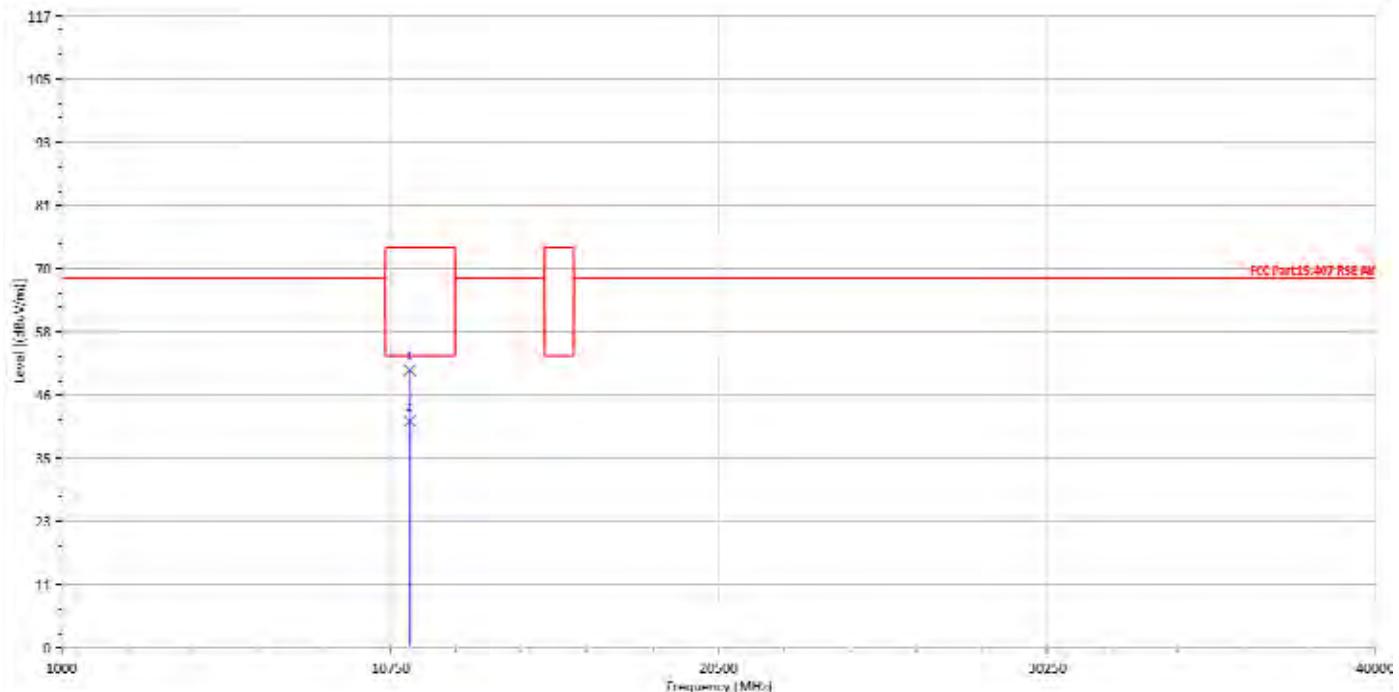
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
11100.00	H	Peak	31.56	20.21	51.77	74	-22.23
11100.00	H	Average	21.38	20.21	41.59	54	-12.41

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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5670 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	H	Peak	30.70	20.61	51.31	74	-22.69
11340.00	H	Average	21.38	20.61	41.99	54	-12.01

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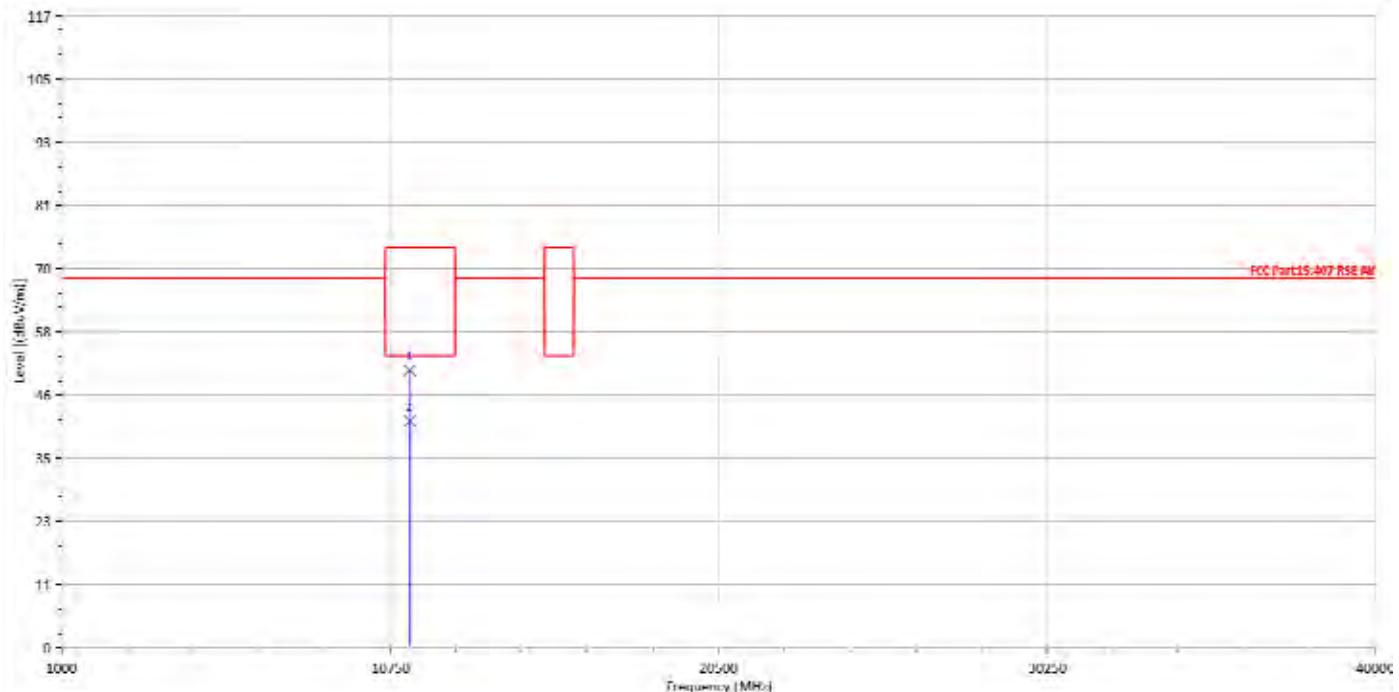
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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5670 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
11340.00	H	Peak	30.66	20.61	51.27	74	-22.73
11340.00	H	Average	21.39	20.61	42.00	54	-12.00

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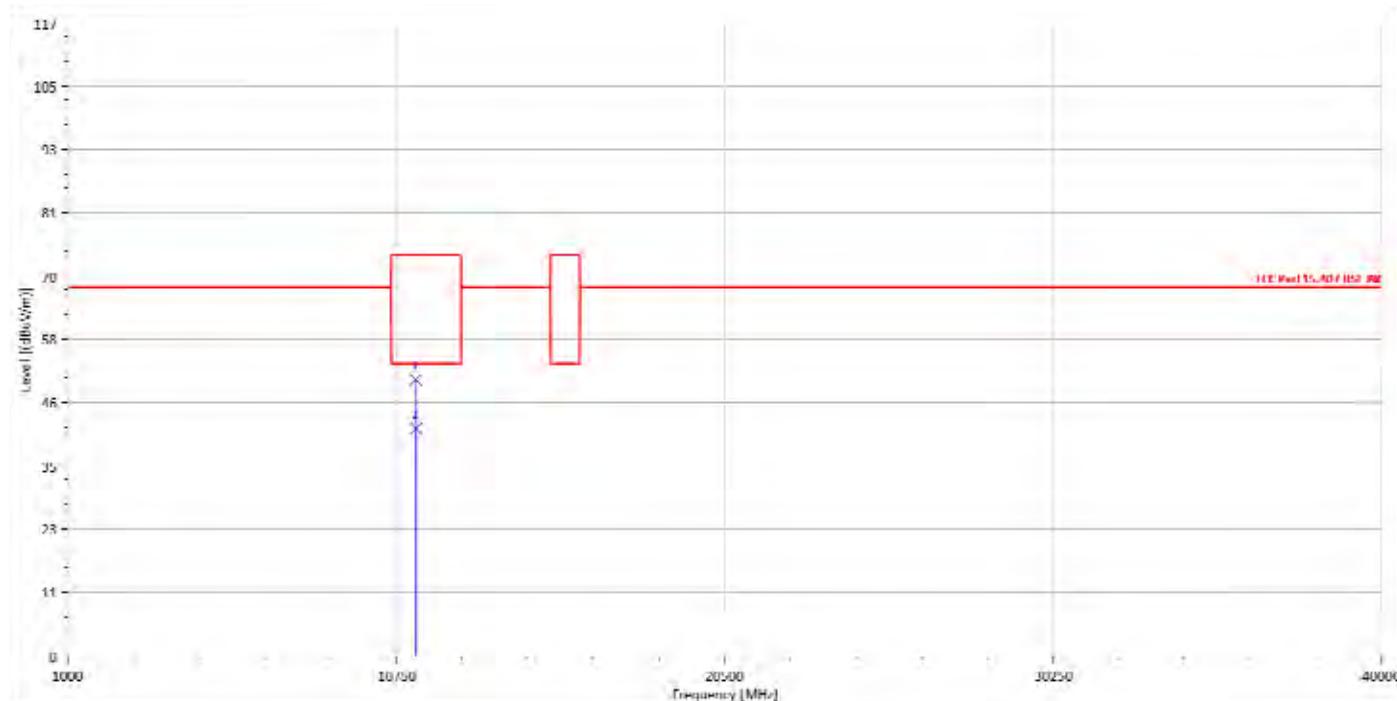
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5755 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



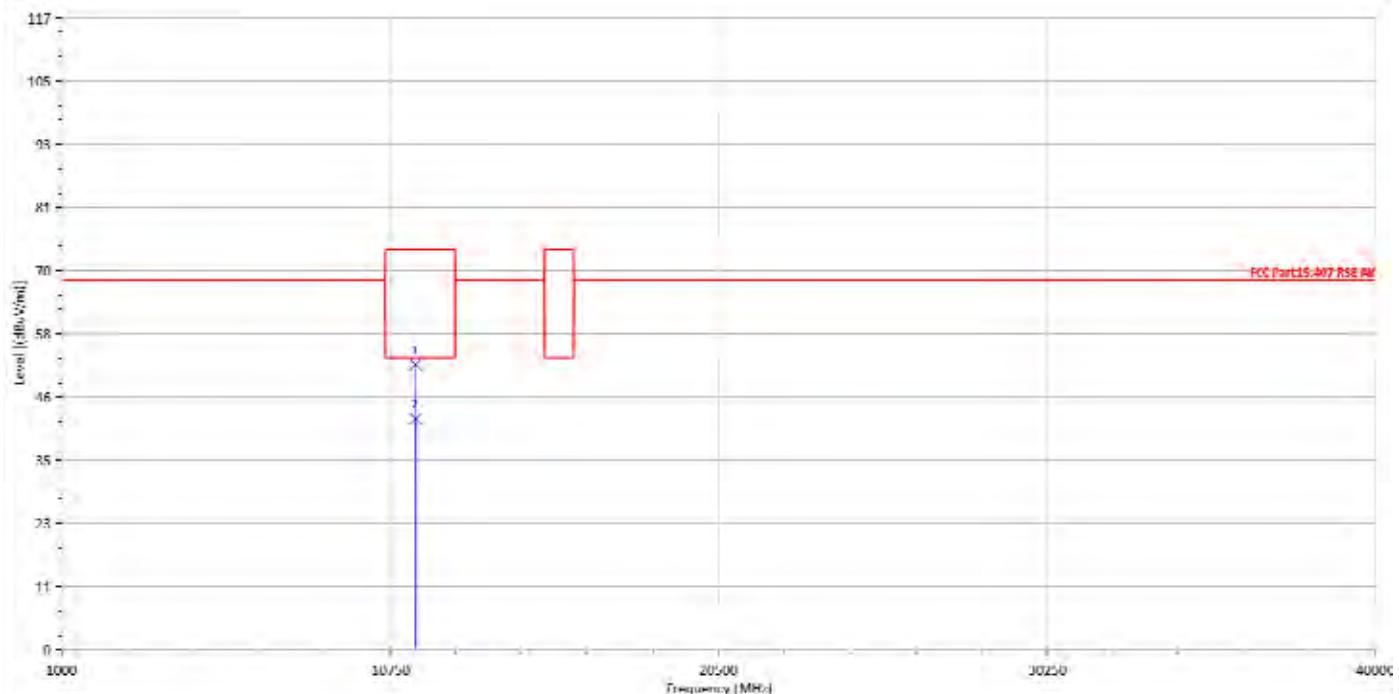
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11340.00	H	Peak	30.51	20.61	51.12	74	-22.88
11340.00	H	Average	21.40	20.61	42.01	54	-11.99

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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5755 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11510.00	H	Peak	31.56	21.17	52.73	74	-21.27
11510.00	H	Average	21.60	21.17	42.77	54	-11.23

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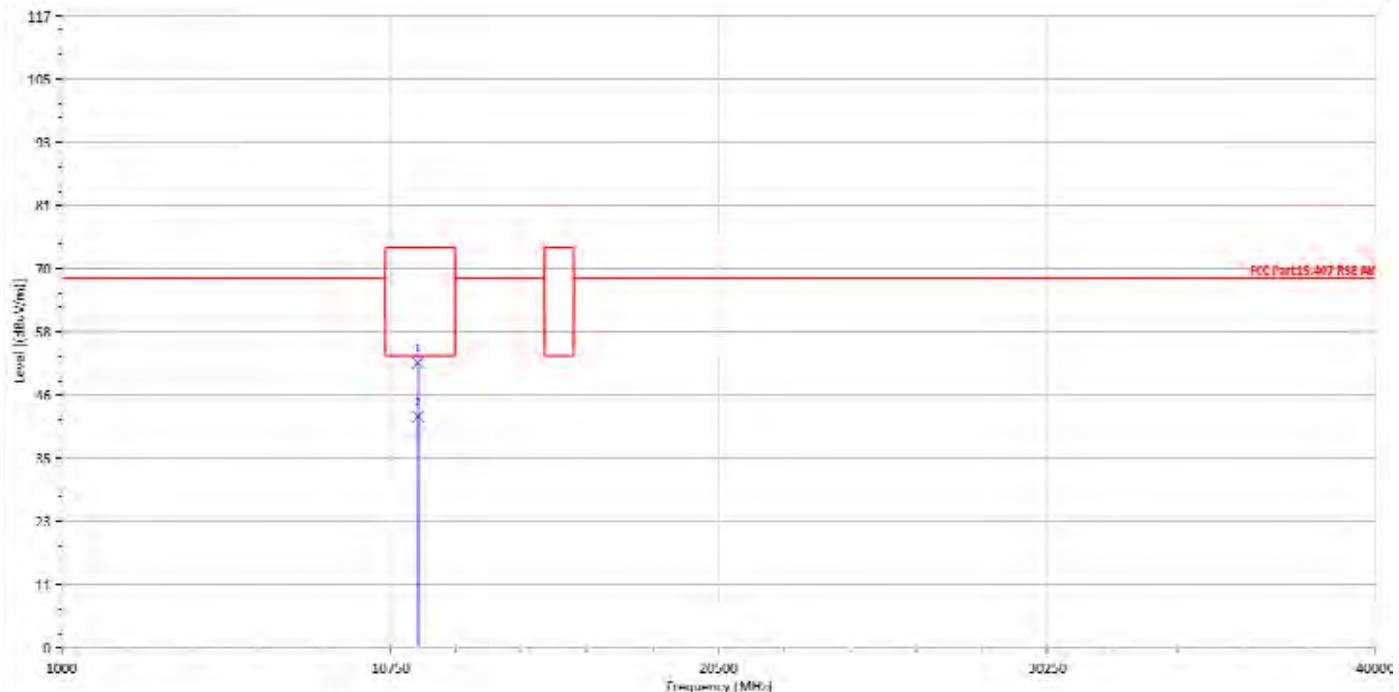
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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5795 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	H	Peak	31.53	21.17	52.70	74	-21.30
11590.00	H	Average	21.64	21.17	42.81	54	-11.19

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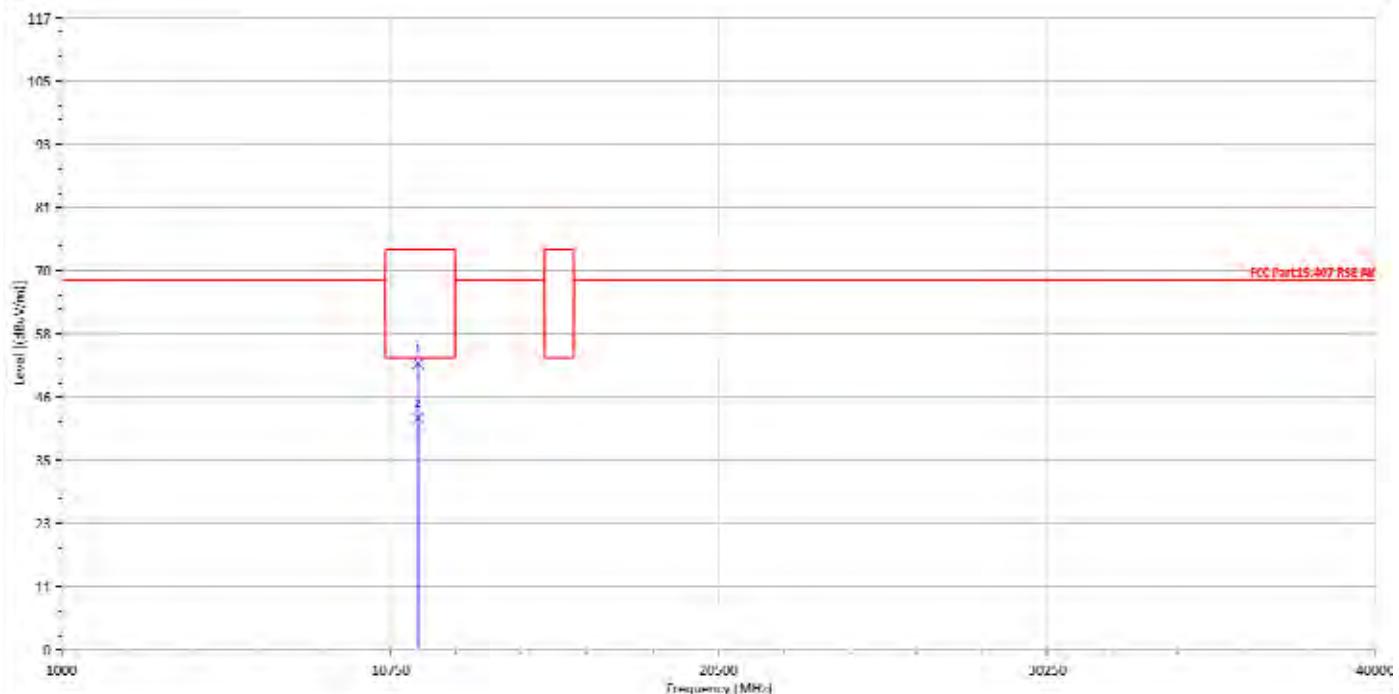
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Operation Mode : 802.11n40 Test Date : 2015/12/31
Fundamental Frequency : 5795 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11590.00	H	Peak	31.70	21.28	52.97	74	-21.03
11590.00	H	Average	21.64	21.28	42.92	54	-11.08

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Band edge falling to restricted band**802.11a mode**

Operation Mode :	802.11a	Test Date :	2015/12/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	24.1deg_C/48RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V				
5148.52	S	Peak	46.53	11.15	57.68	74	-16.32
5148.52	S	Average	31.86	11.15	43.01	54	-10.99
5150.00	E	Peak	45.67	11.14	56.81	74	-17.19
5150.00	E	Average	31.85	11.14	42.99	54	-11.01

Operation Mode :	802.11a	Test Date :	2015/12/22
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	24.1deg_C/48RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E1	Measurement Antenna Pol. :	Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level	Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V				
5150.00	E	Peak	43.60	11.14	54.74	74	-19.26
5150.00	E	Average	31.74	11.14	42.88	54	-11.12

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Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5350.00	E	Peak	43.60	11.30	54.90	74	-19.10	
5350.00	E	Average	32.19	11.30	43.49	54	-10.51	
5351.16	S	Peak	44.54	11.31	55.85	74	-18.15	
5351.16	S	Average	32.13	11.31	43.44	54	-10.56	

Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5350.00	E	Peak	43.53	11.30	54.83	74	-19.17	
5350.00	E	Average	32.09	11.30	43.39	54	-10.61	

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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5455.28	S	Peak	45.82	11.46	57.28	74	-16.72	
5455.28	S	Average	32.21	11.46	43.67	54	-10.33	
5460.00	E	Peak	43.91	11.46	55.37	74	-18.63	
5460.00	E	Average	32.03	11.46	43.49	54	-10.51	

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5458.40	S	Peak	45.85	11.46	57.31	74	-16.69	
5458.40	S	Average	32.05	11.46	43.51	54	-10.49	
5460.00	E	Peak	44.26	11.46	55.72	74	-18.28	
5460.00	E	Average	32.21	11.46	43.67	54	-10.33	

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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5470.00	E	PK/QP/AV Peak	48.75	11.46	60.21	68.3	-8.09

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5469.80	S	PK/QP/AV Peak	50.76	11.46	62.22	68.3	-6.08
5470.00	E	PK/QP/AV Peak	49.79	11.46	61.25	68.3	-7.05

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Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	46.31	12.27	58.58	68.3	-9.72	
5725.40	S	Peak	48.43	12.27	60.69	68.3	-7.61	

Operation Mode : 802.11a Test Date : 2015/12/22
 Fundamental Frequency : 5700 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5725.00	E	Peak	49.31	12.27	61.58	68.3	-6.72	
5725.64	S	Peak	51.31	12.27	63.58	68.3	-4.72	

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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m		
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5725.00	E	Peak	53.45	12.27	65.72	78.2	-12.48

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m		
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5724.80	S	Peak	55.01	12.27	67.28	78.2	-10.92
5725.00	E	Peak	53.71	12.27	65.98	78.2	-12.22

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Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5850.00	E	Peak	45.07	12.61	57.68	78.2	-20.52

Operation Mode : 802.11a Test Date : 2015/12/22
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	FS	@3m	
		PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5850.00	E	Peak	43.71	12.61	56.32	78.2	-21.88

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802.11n20 HT mode

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5180 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5150.00	E	Peak	47.19	11.14	58.34	74	-15.66
5150.00	E	Average	31.92	11.14	43.06	54	-10.94

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5180 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5148.64	S	Peak	45.40	11.15	56.55	74	-17.45
5148.64	S	Average	31.76	11.15	42.91	54	-11.09
5150.00	E	Peak	43.76	11.14	54.90	74	-19.10
5150.00	E	Average	31.75	11.14	42.89	54	-11.11

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Operation Mode : 802.11n20 Test Date : 2015/12/22
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Peak	43.46	11.30	54.76	74	-19.24	
5350.00	E	Average	32.11	11.30	43.41	54	-10.59	

Operation Mode : 802.11n20 Test Date : 2015/12/22
 Fundamental Frequency : 5320 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum		Factor	Actual	Limit	Margin
			Mode	Reading Level				
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB	
5350.00	E	Peak	42.87	11.30	54.17	74	-19.83	
5350.00	E	Average	32.09	11.30	43.39	54	-10.61	

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5455.88	S	Peak	45.69	11.46	57.15	74	-16.85	
5455.88	S	Average	32.06	11.46	43.52	54	-10.48	
5460.00	E	Peak	44.02	11.46	55.48	74	-18.52	
5460.00	E	Average	32.07	11.46	43.53	54	-10.47	

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5458.88	S	Peak	47.69	11.46	59.16	74	-14.84	
5458.88	S	Average	32.28	11.46	43.74	54	-10.26	
5460.00	E	Peak	45.88	11.46	57.34	74	-16.66	
5460.00	E	Average	32.26	11.46	43.72	54	-10.28	

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5469.32	S	Peak	51.47	11.46	62.92	68.3	-5.38
5470.00	E	Peak	49.49	11.46	60.95	68.3	-7.35

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5500 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5469.80	S	Peak	55.30	11.46	66.76	68.3	-1.54
5470.00	E	Peak	53.03	11.46	64.48	68.3	-3.82

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Operation Mode : 802.11n20 **Test Date :** 2015/12/22
Fundamental Frequency : 5700 MHz **Temp. / Humi. :** 24.1deg_C/48RH
Operation Band : BE CH High **Test Engineer :** Ashton
EUT Pol. : E1 **Measurement Antenna Pol. :** Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level				
5725.00	E	Peak		46.33	12.27	58.60	68.3	-9.70
5725.40	S	Peak		47.89	12.27	60.16	68.3	-8.14

Operation Mode : 802.11n20 **Test Date :** 2015/12/22
Fundamental Frequency : 5700 MHz **Temp. / Humi. :** 24.1deg_C/48RH
Operation Band : BE CH High **Test Engineer :** Ashton
EUT Pol. : E1 **Measurement Antenna Pol. :** Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Mode	Reading Level				
5725.00	E	Peak		49.10	12.27	61.37	68.3	-6.93
5725.76	S	Peak		51.06	12.27	63.33	68.3	-4.97

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m	dB	dB
5725.00	E	Peak	53.16	12.27	65.43	78.2	-12.77

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	FS	@3m	dB	dB
5722.70	S	Peak	56.52	12.28	68.80	78.2	-9.40
5725.00	E	Peak	55.08	12.27	67.35	78.2	-10.85

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Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5850.00	E	Peak	44.56	12.61	57.17	78.2	-21.03

Operation Mode : 802.11n20 Test Date : 2015/12/22
Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5850.00	E	Peak	43.00	12.61	55.61	78.2	-22.59

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802.11n40 HT mode

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5190 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5148.04	S	Peak	52.91	11.15	64.06	74	-9.94	
5148.04	S	Average	32.07	11.15	43.22	54	-10.78	
5150.00	E	Peak	49.68	11.14	60.82	74	-13.18	
5150.00	E	Average	32.12	11.14	43.26	54	-10.74	

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5190 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5148.76	S	Peak	50.98	11.15	62.13	74	-11.87	
5148.76	S	Average	31.96	11.15	43.11	54	-10.89	
5150.00	E	Peak	48.86	11.14	60.01	74	-13.99	
5150.00	E	Average	31.95	11.14	43.09	54	-10.91	

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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5310 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5350.00	E	Peak	51.65	11.30	62.95	74	-11.05	
5350.00	E	Average	32.75	11.30	44.05	54	-9.95	
5353.52	S	Peak	52.59	11.32	63.91	74	-10.09	
5353.52	S	Average	32.46	11.32	43.78	54	-10.22	

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5310 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
5350.00	E	Peak	49.67	11.30	60.97	74	-13.03	
5350.00	E	Average	32.35	11.30	43.65	54	-10.35	

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Operation Mode : 802.11n40 Test Date : 2015/12/22
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5459.16	S	Peak	51.86	11.46	63.33	74	-10.67
5459.16	S	Average	32.33	11.46	43.79	54	-10.21
5460.00	E	Peak	50.04	11.46	61.51	74	-12.49
5460.00	E	Average	32.35	11.46	43.81	54	-10.19

Operation Mode : 802.11n40 Test Date : 2015/12/22
 Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
 Operation Band : BE CH Low Test Engineer : Ashton
 EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5459.28	S	Peak	48.94	11.46	60.40	74	-13.60
5459.28	S	Average	32.16	11.46	43.62	54	-10.38
5460.00	E	Peak	48.35	11.46	59.81	74	-14.19
5460.00	E	Average	32.16	11.46	43.62	54	-10.38

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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5469.84	S	Peak	56.36	11.46	67.81	68.3	-0.49
5470.00	E	Peak	54.84	11.46	66.30	68.3	-2.00

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5510 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low RSE Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5468.76	S	Peak	53.35	11.46	64.81	68.3	-3.49
5470.00	E	Peak	52.12	11.46	63.58	68.3	-4.72

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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5670 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	Peak	42.70	12.27	54.97	68.3	-13.33

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5670 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5725.00	E	Peak	45.50	12.27	57.77	68.3	-10.53

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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5755 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5714.00	S	Peak	51.19	12.31	63.50	68.3	-4.80
5724.10	S	Peak	55.26	12.27	67.53	78.2	-10.67
5725.00	E	Peak	52.66	12.27	64.93	78.2	-13.27

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5755 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
5714.40	S	Peak	55.46	12.30	67.77	68.3	-0.53
5724.00	S	Peak	61.81	12.27	74.08	78.2	-4.12
5725.00	E	Peak	59.20	12.27	71.47	78.2	-6.73

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Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5795 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5850.00	E	Peak	42.28	12.61	54.89	78.2	-23.31

Operation Mode : 802.11n40 Test Date : 2015/12/22
Fundamental Frequency : 5795 MHz Temp. / Humi. : 24.1deg_C/48RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E1 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
5850.00	E	Peak	41.70	12.61	54.31	78.2	-23.89

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12. TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

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

12.2 Result

No non-compliance noted:

Refer to the theory of operation.

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13. FREQUENCY STABILITY

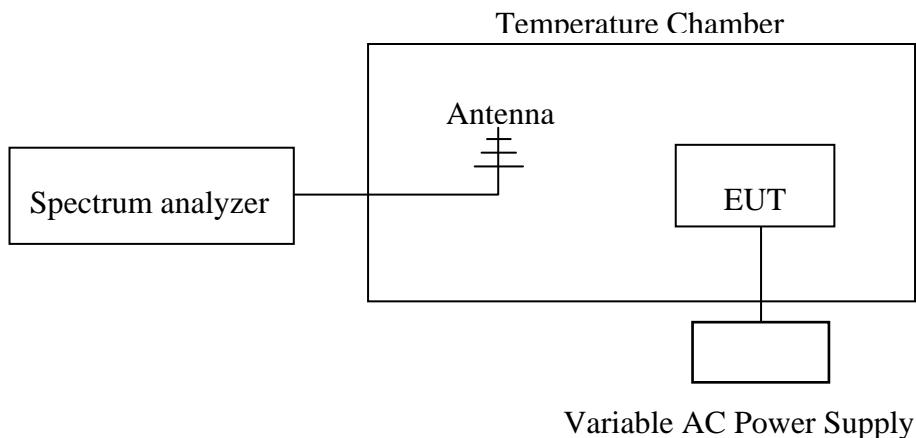
13.1 Standard Applicable

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

13.2 Measurement Procedure

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

13.3 Test SET-UP



13.4 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2015	05/03/2016

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2015.11.18
Temperature	:17	Test By	Tank
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.35V	36	5180	5,179.99563	0.00000084
		44	5220	5,219.99573	0.00000082
		48	5240	5,239.99498	0.00000096
		52	5260	5,259.99421	0.00000110
		60	5300	5,299.99448	0.00000104
		64	5320	5,319.99602	0.00000075
		100	5500	5,499.99507	0.00000090
		116	5580	5,579.99432	0.00000102
		140	5700	5,699.99518	0.00000085
		149	5745	5,744.99609	0.00000068
	3.5V	157	5785	5,784.99499	0.00000087
		165	5825	5,824.99493	0.00000087
		36	5180	5,179.99544	0.00000088
		44	5220	5,219.99443	0.00000107
		48	5240	5,239.99573	0.00000081
		52	5260	5,259.99453	0.00000104
		60	5300	5,299.99497	0.00000095
		64	5320	5,319.99497	0.00000095
		100	5500	5,499.99508	0.00000089
		116	5580	5,579.99442	0.00000100
		140	5700	5,699.99570	0.00000075
		149	5745	5,744.99431	0.00000099
		157	5785	5,784.99423	0.00000100
		165	5825	5,824.99390	0.00000105

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25	3.8V	36	5180	5,179.99425	0.00000111
		44	5220	5,219.99389	0.00000117
		48	5240	5,239.99411	0.00000112
		52	5260	5,259.99397	0.00000115
		60	5300	5,299.99432	0.00000107
		64	5320	5,319.99482	0.00000097
		100	5500	5,499.99475	0.00000095
		116	5580	5,579.99422	0.00000104
		140	5700	5,699.99450	0.00000096
		149	5745	5,744.99418	0.00000101
		157	5785	5,784.99393	0.00000105
		165	5825	5,824.99358	0.00000110

55	4.35V	36	5180	5,179.99387	0.00000118
		44	5220	5,219.99320	0.00000130
		48	5240	5,239.99411	0.00000112
		52	5260	5,259.99291	0.00000135
		60	5300	5,299.99370	0.00000119
		64	5320	5,319.99332	0.00000126
		100	5500	5,499.99280	0.00000131
		116	5580	5,579.99238	0.00000137
		140	5700	5,699.99340	0.00000116
		149	5745	5,744.99360	0.00000111
		157	5785	5,784.99222	0.00000134
		165	5825	5,824.99174	0.00000142
		36	5180	5,179.99251	0.00000145
		44	5220	5,219.99336	0.00000127
55	3.5V	48	5240	5,239.99279	0.00000138
		52	5260	5,259.99350	0.00000124
		60	5300	5,299.99303	0.00000132
		64	5320	5,319.99454	0.00000103
		100	5500	5,499.99363	0.00000116
		116	5580	5,579.99229	0.00000138
		140	5700	5,699.99359	0.00000112
		149	5745	5,744.99330	0.00000117
		157	5785	5,784.99277	0.00000125
		165	5825	5,824.99231	0.00000132

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Operation Mode	802.11 n_HT40	Test Date	2015.11.18
Temperature	:17	Test By	Tank
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
-10	4.35V	38	5190	5,189.99469	0.00000102
		46	5230	5,229.99580	0.00000080
		54	5270	5,269.99575	0.00000081
		62	5310	5,309.99427	0.00000108
		102	5510	5,509.99579	0.00000076
		110	5550	5,549.99446	0.00000100
		134	5670	5,669.99497	0.00000089
		151	5755	5,754.99486	0.00000089
		159	5795	5,794.99379	0.00000107
	3.5V	38	5190	5,189.99509	0.00000095
		46	5230	5,229.99495	0.00000097
		54	5270	5,269.99624	0.00000071
		62	5310	5,309.99522	0.00000090
		102	5510	5,509.99595	0.00000074
		110	5550	5,549.99458	0.00000098
		134	5670	5,669.99574	0.00000075
		151	5755	5,754.99474	0.00000091
		159	5795	5,794.99484	0.00000089

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25	3.8V	38	5190	5,189.99414	0.00000113
		46	5230	5,229.99407	0.00000113
		54	5270	5,269.99442	0.00000106
		62	5310	5,309.99420	0.00000109
		102	5510	5,509.99432	0.00000103
		110	5550	5,549.99415	0.00000105
		134	5670	5,669.99417	0.00000103
		151	5755	5,754.99386	0.00000107
		159	5795	5,794.99358	0.00000111
		38	5190	5,189.99377	0.00000120
55	4.35V	46	5230	5,229.99313	0.00000131
		54	5270	5,269.99285	0.00000136
		62	5310	5,309.99399	0.00000113
		102	5510	5,509.99353	0.00000117
		110	5550	5,549.99326	0.00000121
		134	5670	5,669.99257	0.00000131
		151	5755	5,754.99230	0.00000134
		159	5795	5,794.99324	0.00000117
		38	5190	5,189.99318	0.00000131
		46	5230	5,229.99363	0.00000122
	3.5V	54	5270	5,269.99404	0.00000113
		62	5310	5,309.99401	0.00000113
		102	5510	5,509.99233	0.00000139
		110	5550	5,549.99244	0.00000136
		134	5670	5,669.99293	0.00000125
		151	5755	5,754.99304	0.00000121
		159	5795	5,794.99258	0.00000128

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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14. ANTENNA REQUIREMENT

14.1 Standard Applicable

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

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

14.2 Antenna Connected Construction

A PIFA antenna design is used.

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

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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