

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Max-Stream AC600 Wi-Fi Micro USB Adapter
Brand Name: LINKSYS
Model No.: WUSB6100M
Model Difference: N/A
FCC ID: Q87-WUSB6100M
Report No.: E2/2016/20041
Issue Date: Mar. 17, 2016
FCC Rule Part: §15.247, Cat: DTS
Prepared for: Linksys LLC
121 Theory Drive, Irvine, CA 92617, USA
SGS Taiwan Ltd.
Prepared by: Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Linksys LLC
121 Theory Drive, Irvine, CA 92617, USA

Product Name: Max-Stream AC600 Wi-Fi Micro USB Adapter

Brand Name: LINKSYS

Model No. : WUSB6100M

Model Difference: N/A

FCC ID: Q87-WUSB6100M

Report Number: E2/2016/20041

Date of test: Feb. 26, 2016 ~ Mar. 17, 2016

Date of EUT Received: Feb. 26, 2016

We hereby certify that:

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

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

Test By:

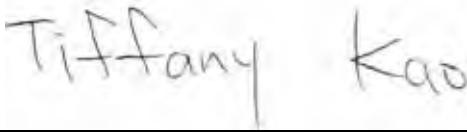


Date:

Mar. 17, 2016

Jerry Lu / Engineer

Prepared By:

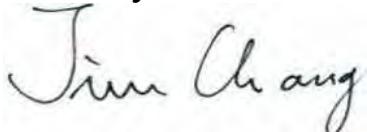


Date:

Mar. 17, 2016

Tiffany Kao / Clerk

Approved By:



Date:

Mar. 17, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2016/20041	Rev.00	Initial creation of document	Mar. 17, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Max-Stream AC600 Wi-Fi Micro USB Adapter
Brand Name:	LINKSYS
Model No.:	WUSB6100M
Model Difference:	N/A
Product SW/HW version:	N/A / N/A
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	5Vdc from USB port

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 21.68dBm g: 25.46dBm	DSSS, OFDM
11n	HT20 / VHT20 2412-2462	11	HT20:25.43dBm VHT20:25.43dBm	OFDM
11n	HT40 / VHT40 2422-2452	7	HT40: 25.49dBm VHT40: 25.49dBm	OFDM
Antenna Designation:		Metal Antenna, Antenna Gain: 2.52dBi		
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM		
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n HT20: 6.5 – 72.2Mbps 802.11 n VHT20: 6.5 – 86.7Mbps 802.11 n HT40: 13.5 - 150.0Mbps 802.11 n VHT40: 13.5 -200.0Mbps		

1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Wi-Fi 802.11bgn feature, and below is details of information.

Product Feature	
Product Name:	Max-Stream AC600 Wi-Fi Micro USB Adapter
Brand Name:	LINKSYS
Model No.:	WUSB6100M
Model Difference:	N/A
FCC ID:	Q87-WUSB6100M
Wi-Fi- Specification	802.11a/b/g/n/ac

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance.

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 a DoC 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.

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 0.6dB and 10dB attenuator.

$$\text{offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 106(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission

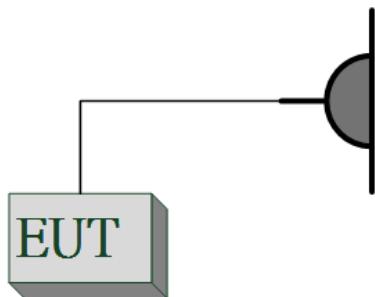


Fig. 2-2 AC Power Line Conducted Emission & Conducted Emission

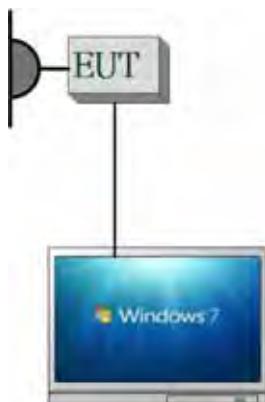


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-YYG88	shield	Un-shield

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB & 99% Emission Bandwidth	Compliant
§15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n_HT20/VHT20

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 MHz		

7 channels are provided for 802.11n_HT40/VHT40

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422 MHz	7	2442 MHz
4	2427 MHz	8	2447 MHz
5	2432 MHz	9	2452 MHz
6	2437 MHz		

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 and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.
4. The given UE is pre-scanned among 802.11n HT and VHT modes, and 802.11n VHT yields the highest reading that generates the highest emission. Therefore, 802.11n VHT as the mode of test configuration is chosen to carry out the relevantly mandatory test items.

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	MAIN

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (VHT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN
802.11n (VHT40)	3 to 9	3, 6, 9	OFDM	MCS 0	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 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (VHT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN
802.11n (VHT40)	3 to 9	3, 6, 9	OFDM	MCS 0	MAIN

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	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)	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 150kHz to 30MHz 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	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017
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

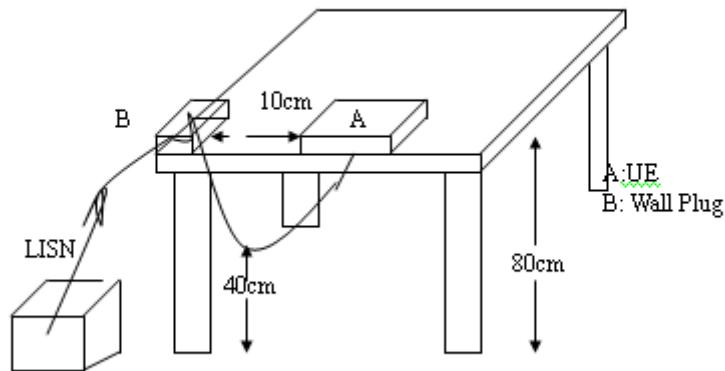
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



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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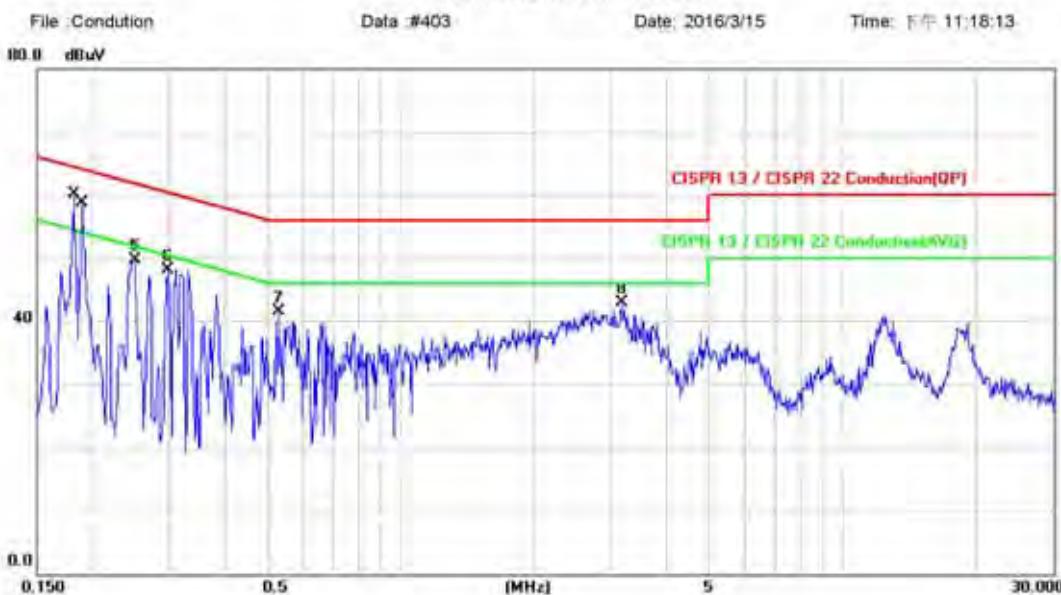
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Mar. 15, 2016
Temperature:	26	Humidity:	54 %	Test By:	Aken
				Phase:	L1

Site : Conduction Room Phase: **L1** Temperature: 23 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 41 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1 *		0.1820	38.70	19.56	58.26	64.39	-6.13	QP	
2		0.1820	23.40	19.56	42.96	54.39	-11.43	AVG	
3		0.1900	37.10	19.56	56.66	64.04	-7.38	QP	
4		0.1900	21.63	19.56	41.19	54.04	-12.85	AVG	
5		0.2500	30.19	19.59	49.78	61.76	-11.98	peak	
6		0.2980	28.57	19.63	48.20	60.30	-12.10	peak	
7		0.5300	21.81	19.79	41.60	56.00	-14.40	peak	
8		3.1700	23.02	19.90	42.92	56.00	-13.08	peak	

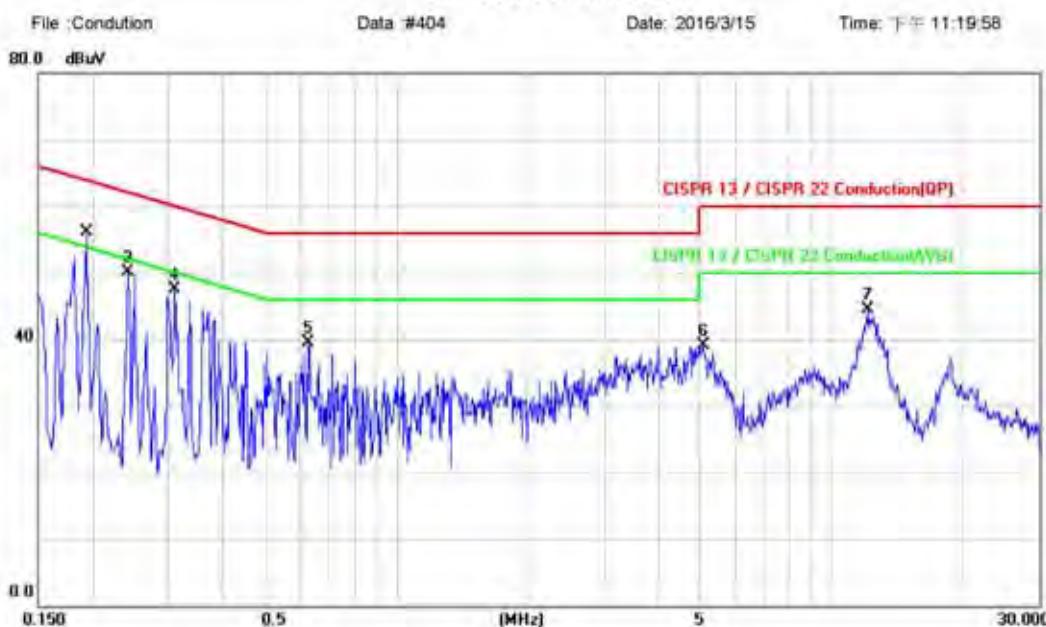
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Site : Conduction Room
 Limit: CISPR 13 / CISPR 22 Conduction(QP)
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1940	35.42	19.56	54.98	63.86	-8.88	QP	
2		0.1940	16.45	19.56	36.01	53.86	-17.85	AVG	
3		0.2420	30.56	19.60	50.16	62.03	-11.87	peak	
4		0.3100	27.81	19.65	47.46	59.97	-12.51	peak	
5		0.6300	19.79	19.80	39.59	56.00	-16.41	peak	
6		5.0740	19.23	19.79	39.02	60.00	-20.98	peak	
7		12.1380	24.66	19.85	44.51	60.00	-15.49	peak	

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7 DUTY CYCLE OF 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:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	98.91	0.05
802.11g	93.09	0.31
802.11n VHT20	95.39	0.20
802.11n VHT40	90.48	0.43

$$b = 98.91\%, g = 93.09\%, n_{\text{VHT20}} = 95.39\%, n_{\text{VHT40}} = 90.48$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9891) = 0.05$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9309) = 0.31$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9539) = 0.2$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9048) = 0.43$$

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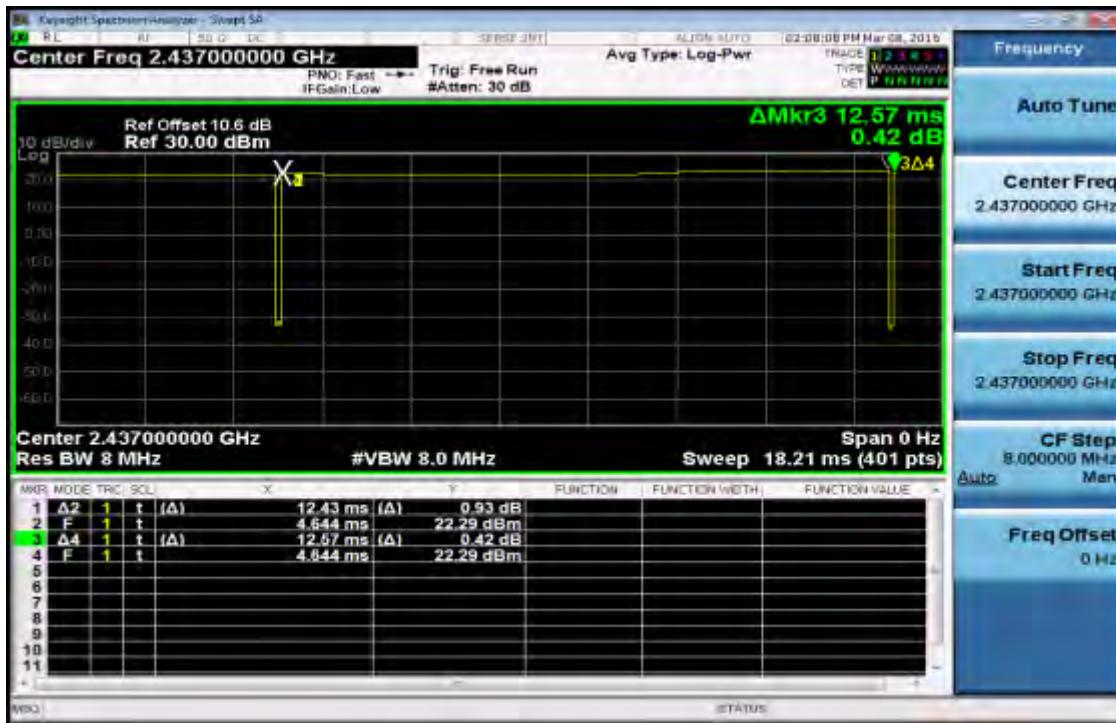
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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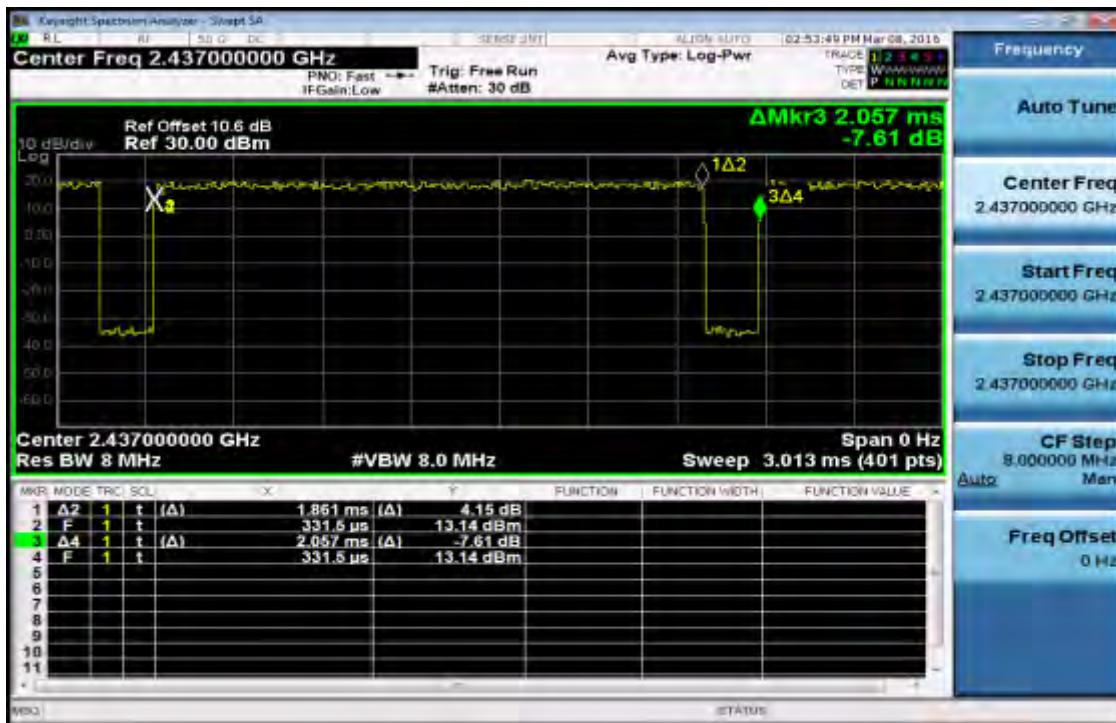
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802.11 n VHT20



802.11 n VHT40



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 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	00100A1F1A 195C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2015	06/22/2016

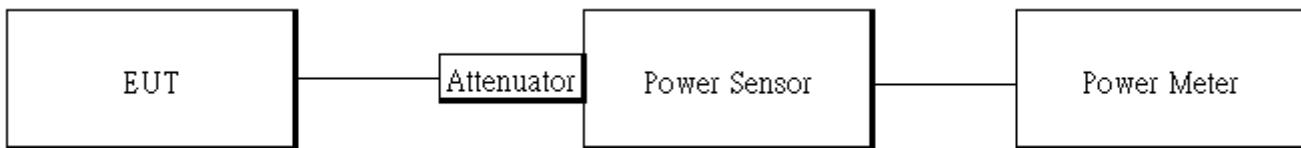
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8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 Measurement Result

802.11b Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	21.47	140.28	1 Watt = 30.00 dBm	PASS
6	2437	1	21.54	142.56	1 Watt = 30.00 dBm	PASS
11	2462	1	21.68	147.23	1 Watt = 30.00 dBm	PASS
802.11b Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	19.37	86.50	1 Watt = 30.00 dBm	PASS
6	2437	1	19.74	94.19	1 Watt = 30.00 dBm	PASS
11	2462	1	19.98	99.54	1 Watt = 30.00 dBm	PASS
802.11g Main						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	25.01	316.96	1 Watt = 30.00 dBm	PASS
6	2437	6	25.46	351.56	1 Watt = 30.00 dBm	PASS
11	2462	6	24.53	283.79	1 Watt = 30.00 dBm	PASS
802.11g Main						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	17.51	56.36	1 Watt = 30.00 dBm	PASS
6	2437	6	19.72	93.76	1 Watt = 30.00 dBm	PASS
11	2462	6	16.71	46.88	1 Watt = 30.00 dBm	PASS

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802.11n_20M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	MCS0	23.84	242.10	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	25.43	349.14	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	23.91	246.04	1 Watt = 30.00 dBm	PASS

802.11n_20M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	MCS0	15.07	32.14	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	19.41	87.30	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	15.67	36.90	1 Watt = 30.00 dBm	PASS

802.11n VHT20 Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	VHT0	23.84	242.10	1 Watt = 30.00 dBm	PASS
6	2437	VHT0	25.43	349.14	1 Watt = 30.00 dBm	PASS
11	2462	VHT0	23.91	246.04	1 Watt = 30.00 dBm	PASS

802.11n VHT20 Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	VHT0	15.16	32.81	1 Watt = 30.00 dBm	PASS
6	2437	VHT0	19.68	92.90	1 Watt = 30.00 dBm	PASS
11	2462	VHT0	15.69	37.07	1 Watt = 30.00 dBm	PASS

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802.11n_40M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2422	MCS0	23.9	245.47	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	25.49	354.00	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	24.19	262.42	1 Watt = 30.00 dBm	PASS

802.11n_40M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2422	MCS0	14.48	28.05	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	19.41	87.30	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	15.04	31.92	1 Watt = 30.00 dBm	PASS

802.11n VHT40 Main

CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2422	VHT0	23.9	245.47	1 Watt = 30.00 dBm	PASS
6	2437	VHT0	25.49	354.00	1 Watt = 30.00 dBm	PASS
11	2452	VHT0	24.19	262.42	1 Watt = 30.00 dBm	PASS

802.11n VHT40 Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2422	VHT0	14.49	28.12	1 Watt = 30.00 dBm	PASS
6	2437	VHT0	19.43	87.70	1 Watt = 30.00 dBm	PASS
11	2452	VHT0	15.17	32.89	1 Watt = 30.00 dBm	PASS

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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9 6DB & 99% BANDWIDTH MEASUREMENT

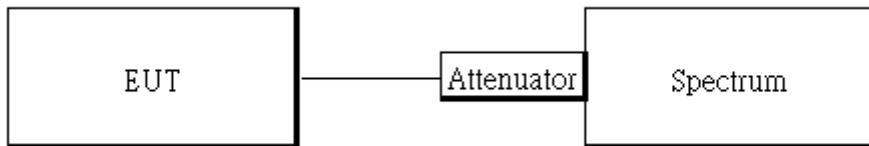
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 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	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and -6dB (upper and lower) frequency.

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9.5 Measurement Result

6dB Bandwidth

802.11b Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	8091	> 500	PASS
2437	8094	> 500	PASS
2462	8094	> 500	PASS

802.11g Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15170	> 500	PASS
2437	15170	> 500	PASS
2462	15160	> 500	PASS

802.11_VHT20 Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	15160	> 500	PASS
2437	15170	> 500	PASS
2462	15160	> 500	PASS

802.11_VHT40 Main

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	35120	> 500	PASS
2437	35140	> 500	PASS
2452	35150	> 500	PASS

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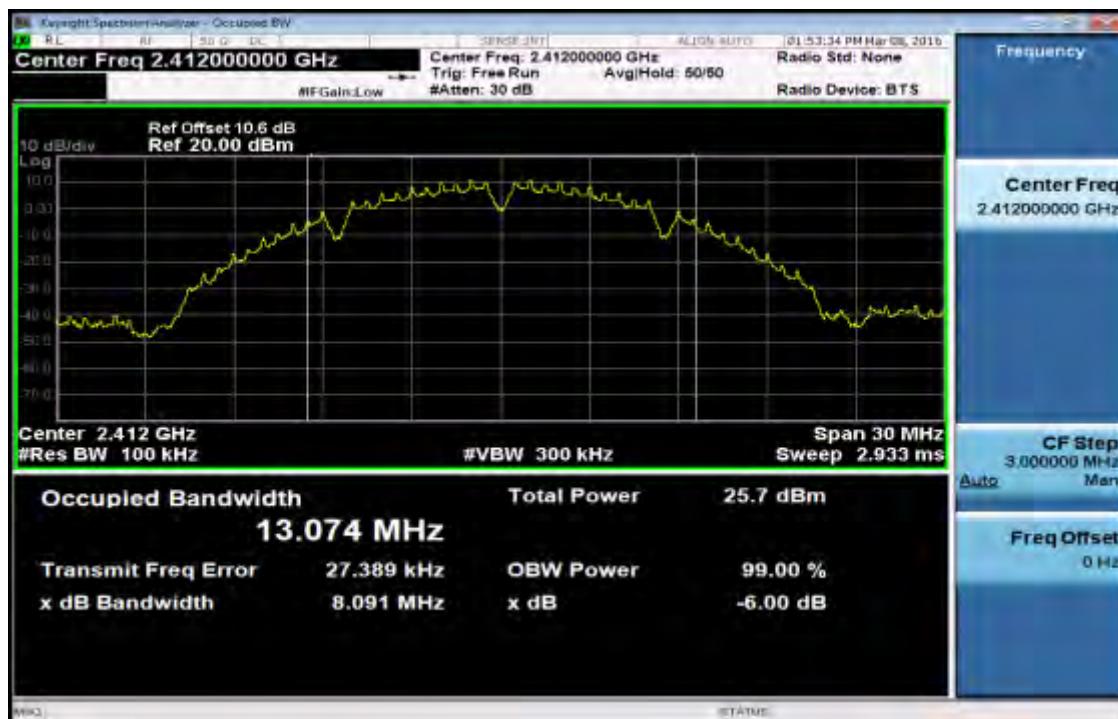
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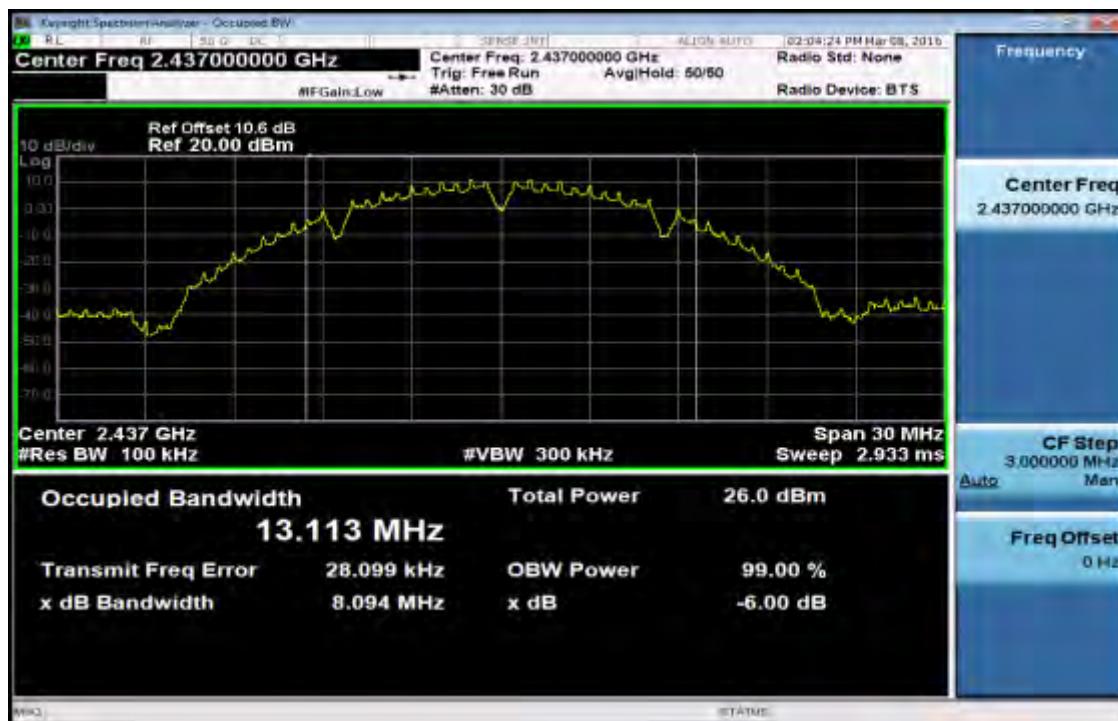
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

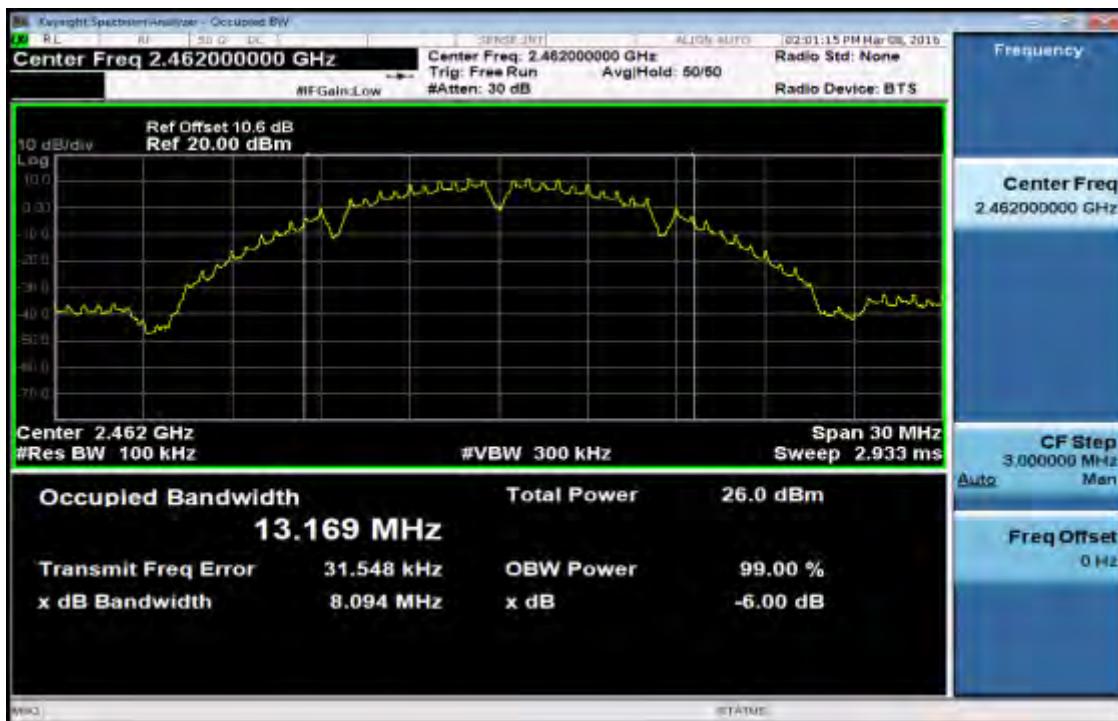


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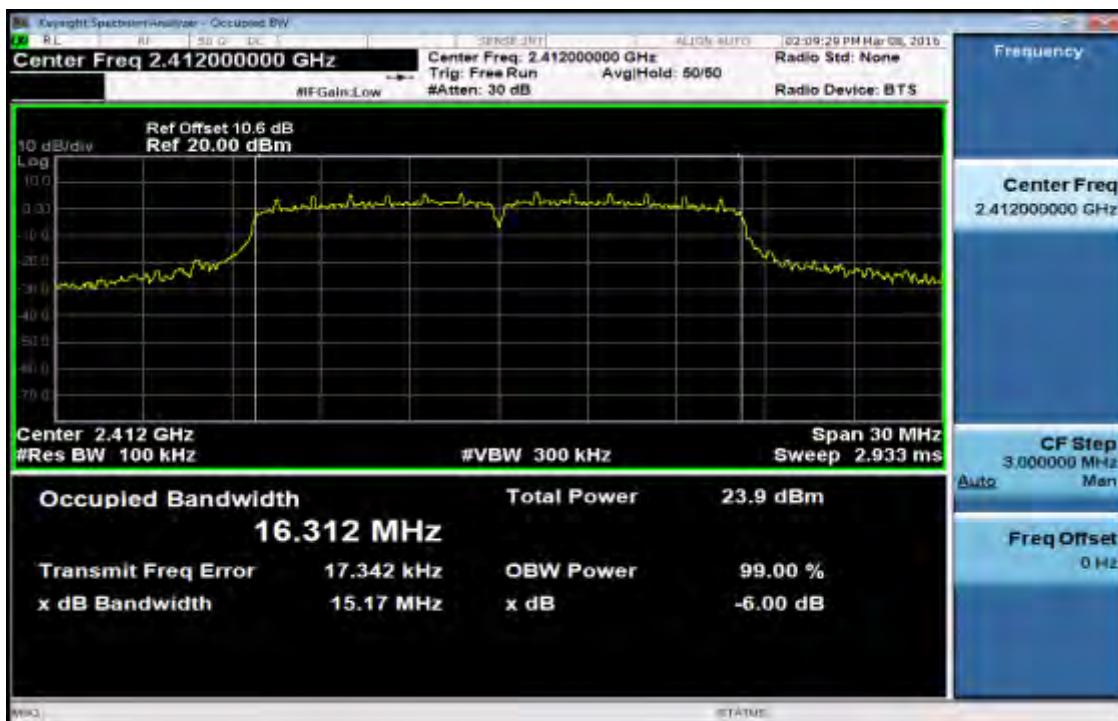
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

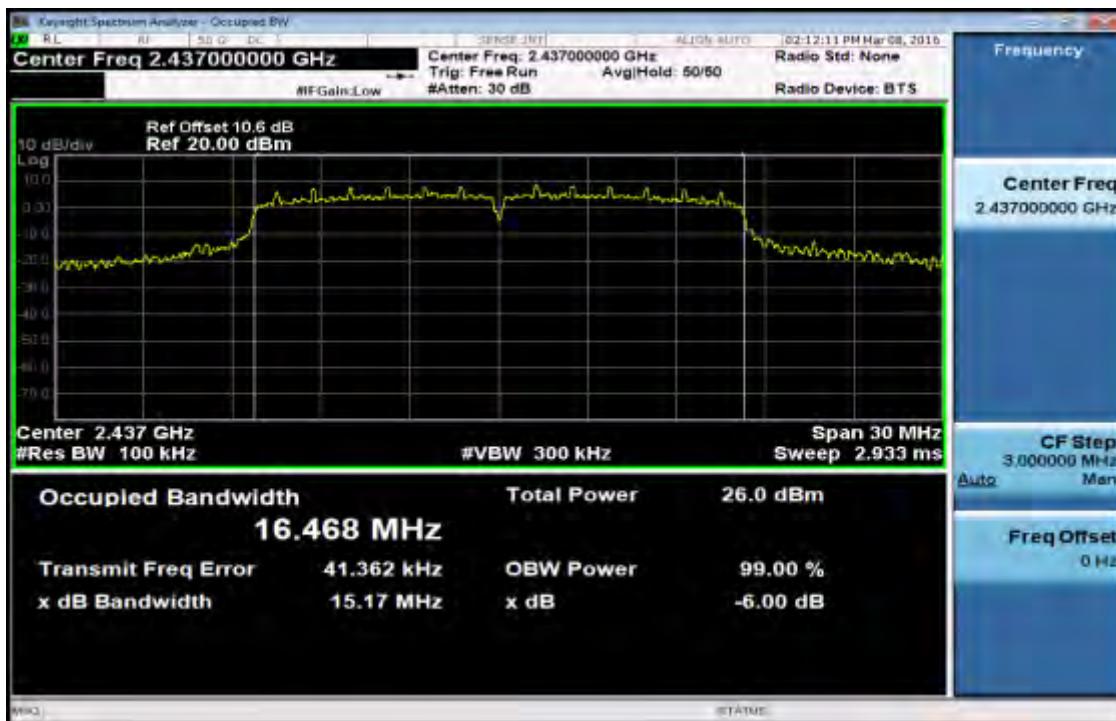


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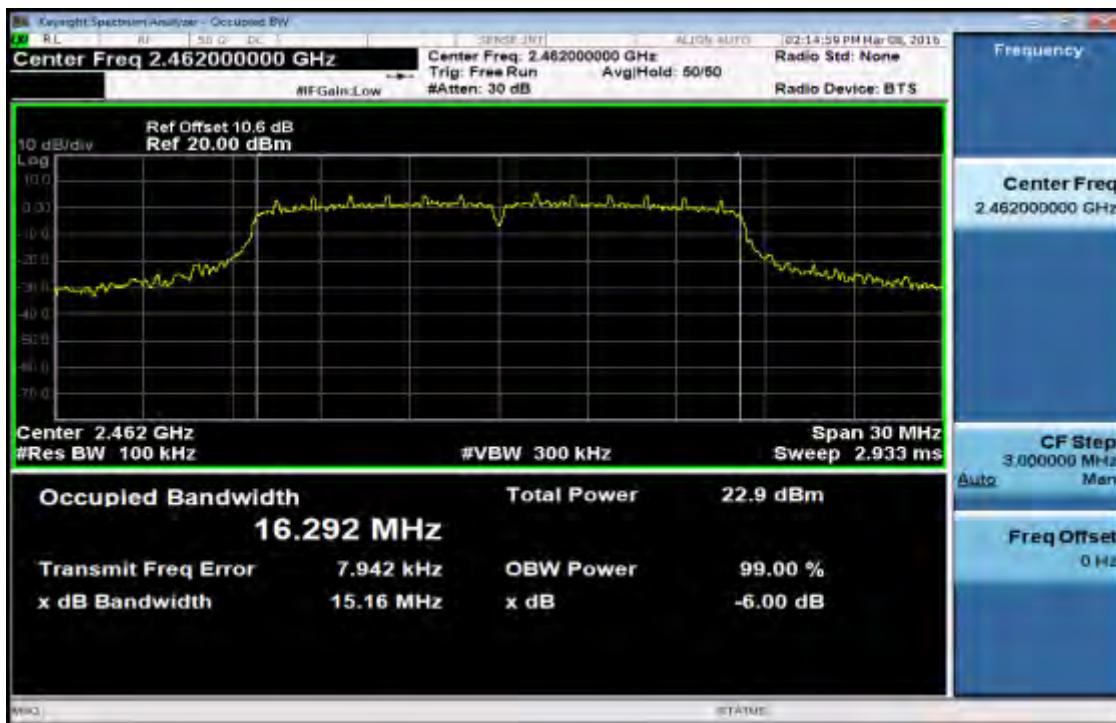
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



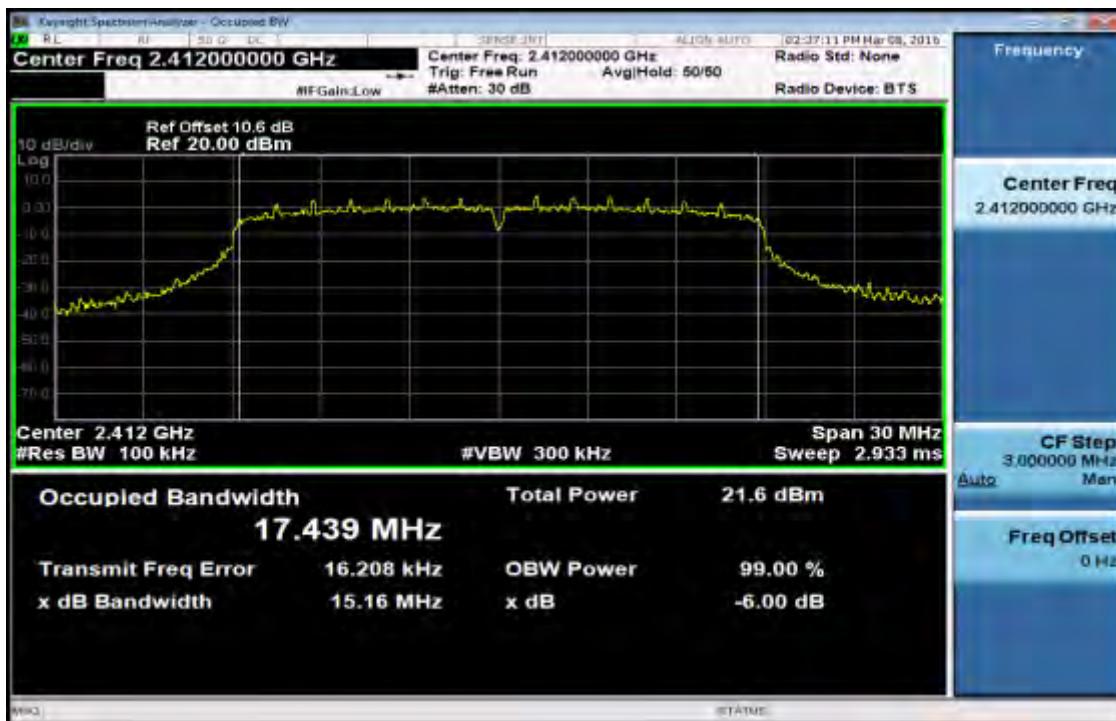
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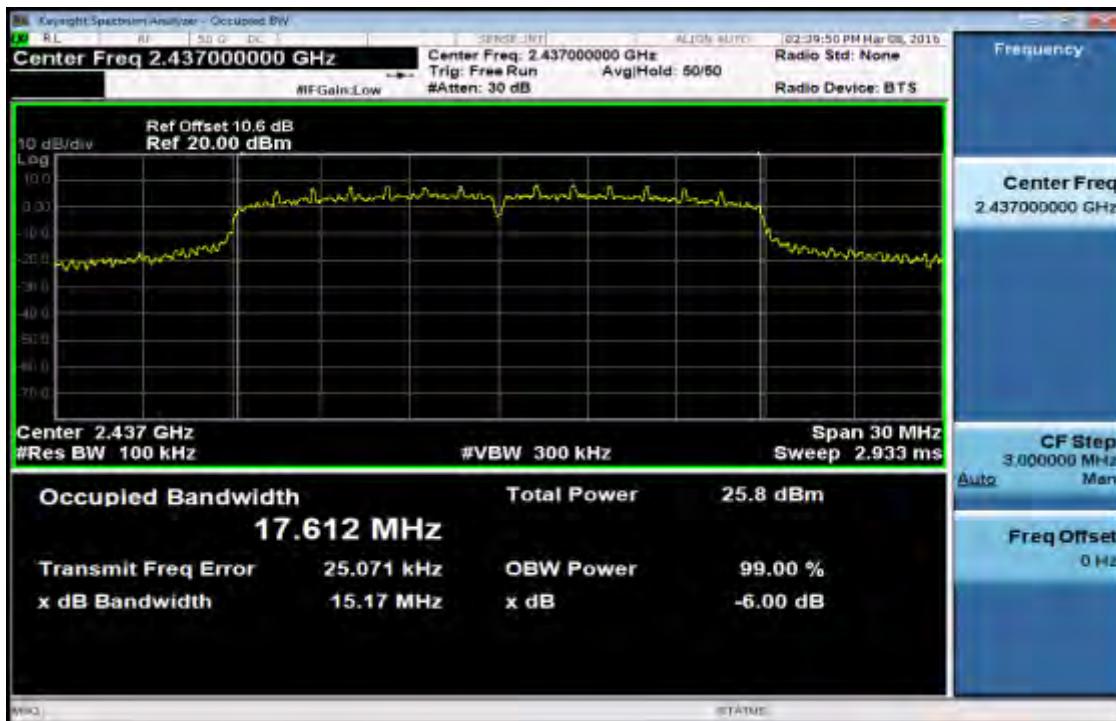
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802.11n VHT20

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

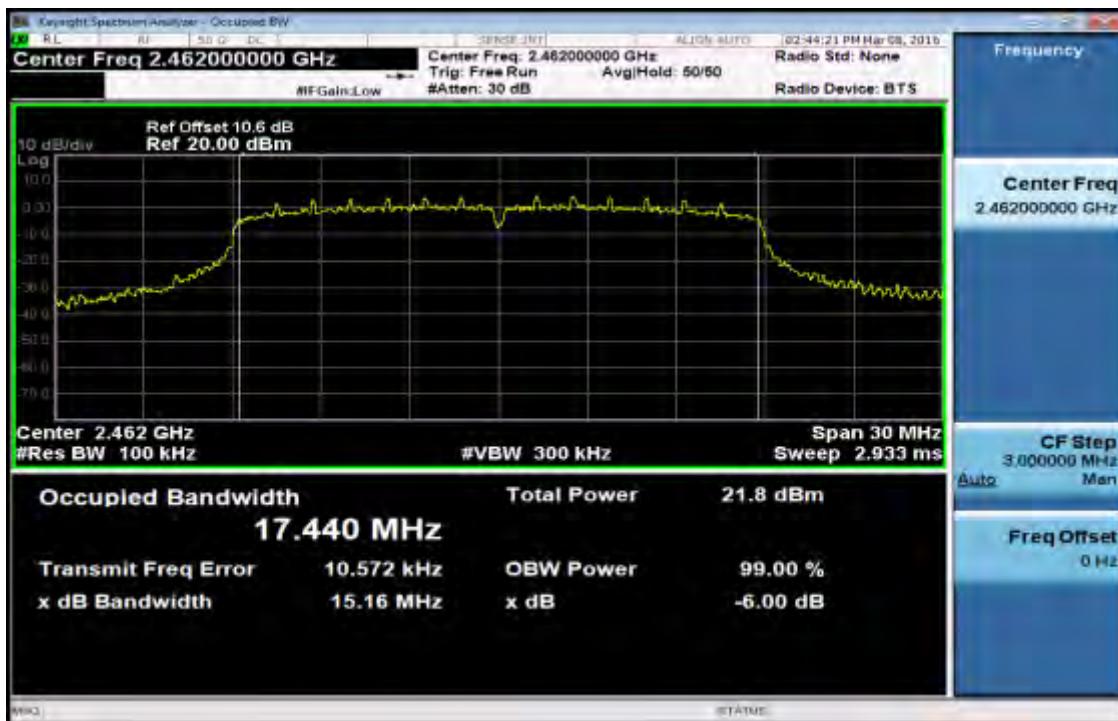


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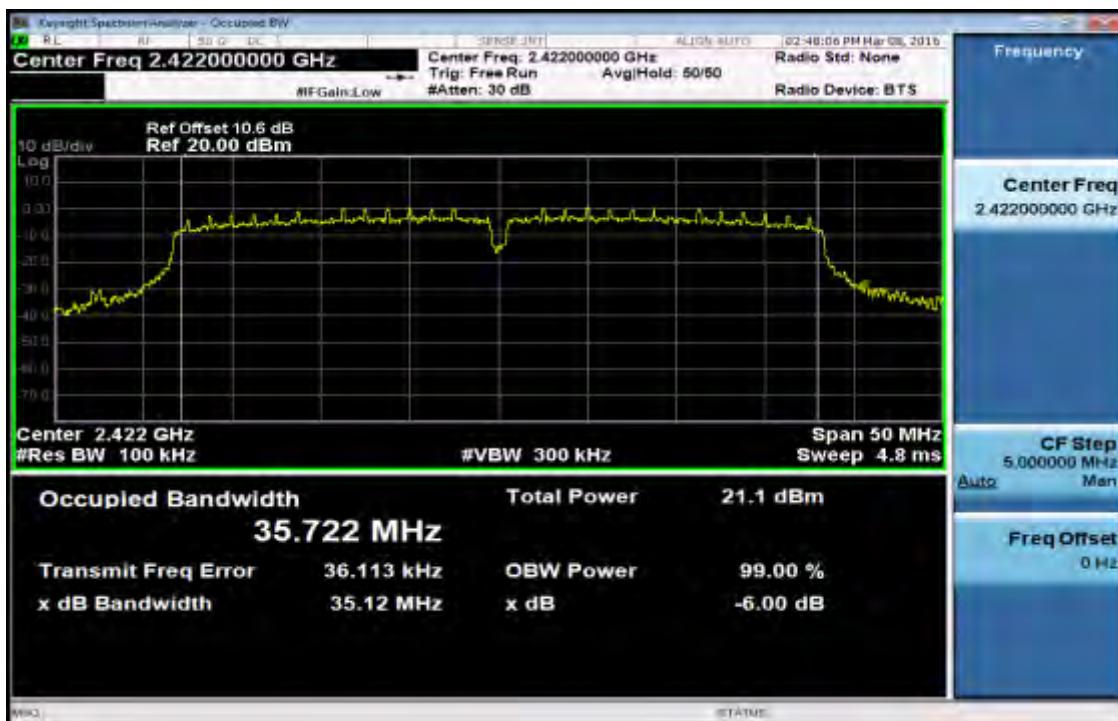
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6dB Band Width Test Data CH-High



802.11n VHT40

6dB Band Width Test Data CH-Low

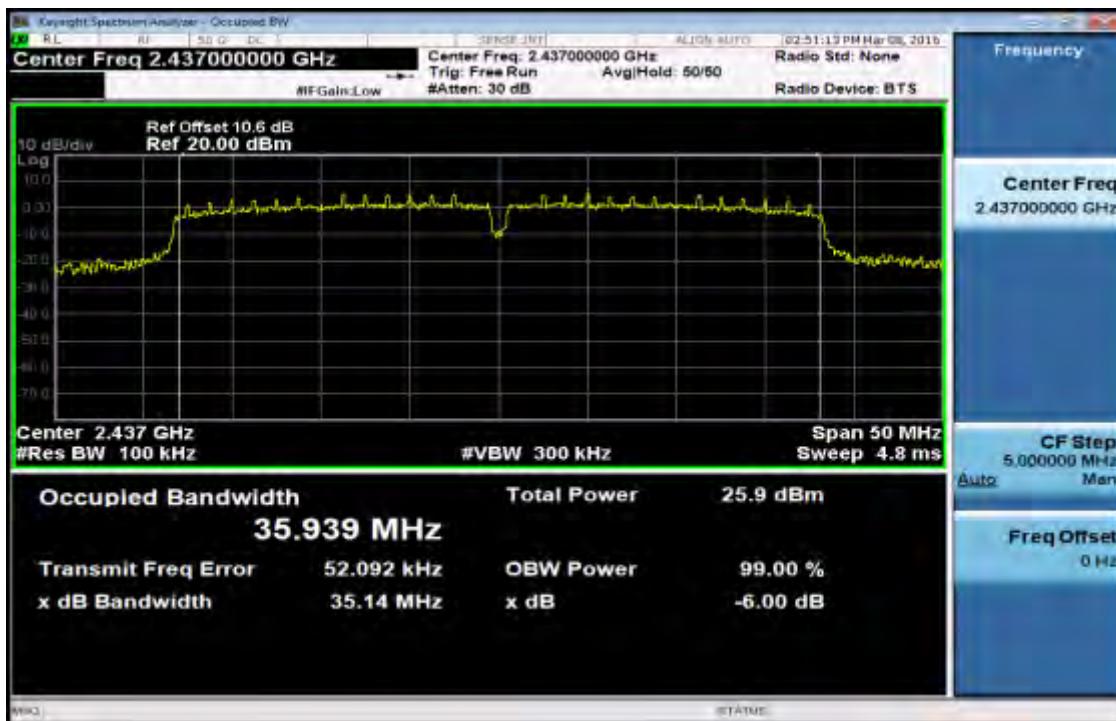


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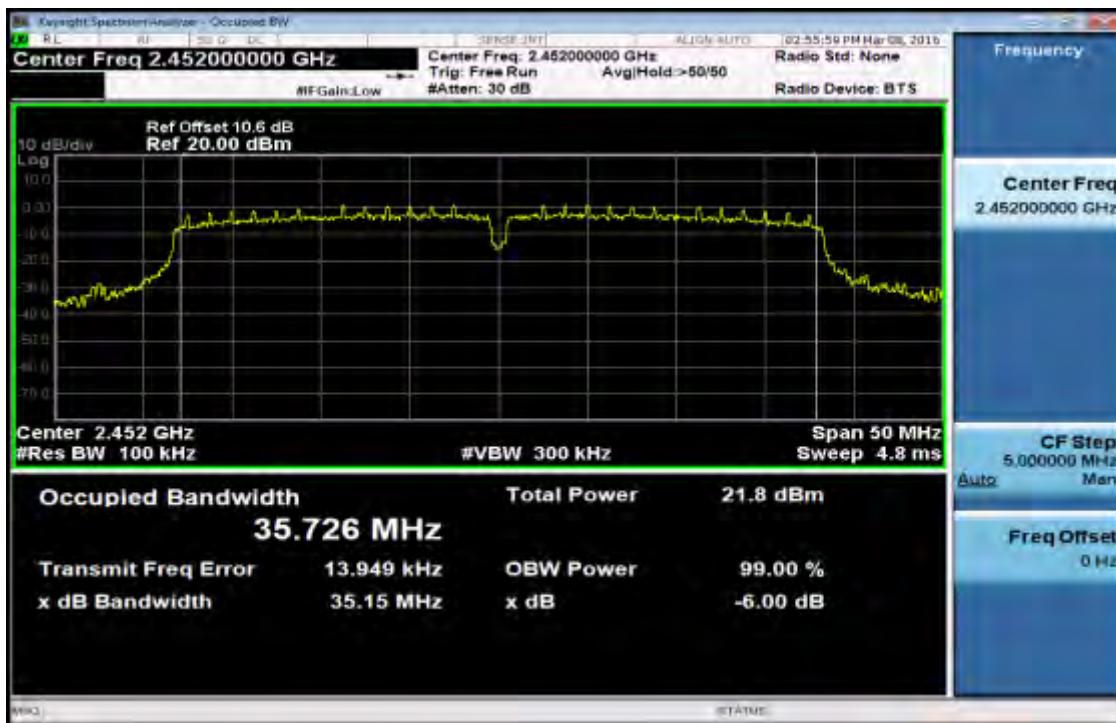
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

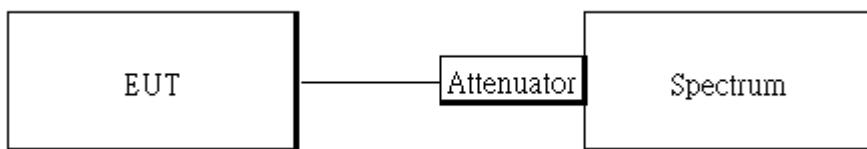
10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 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	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

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

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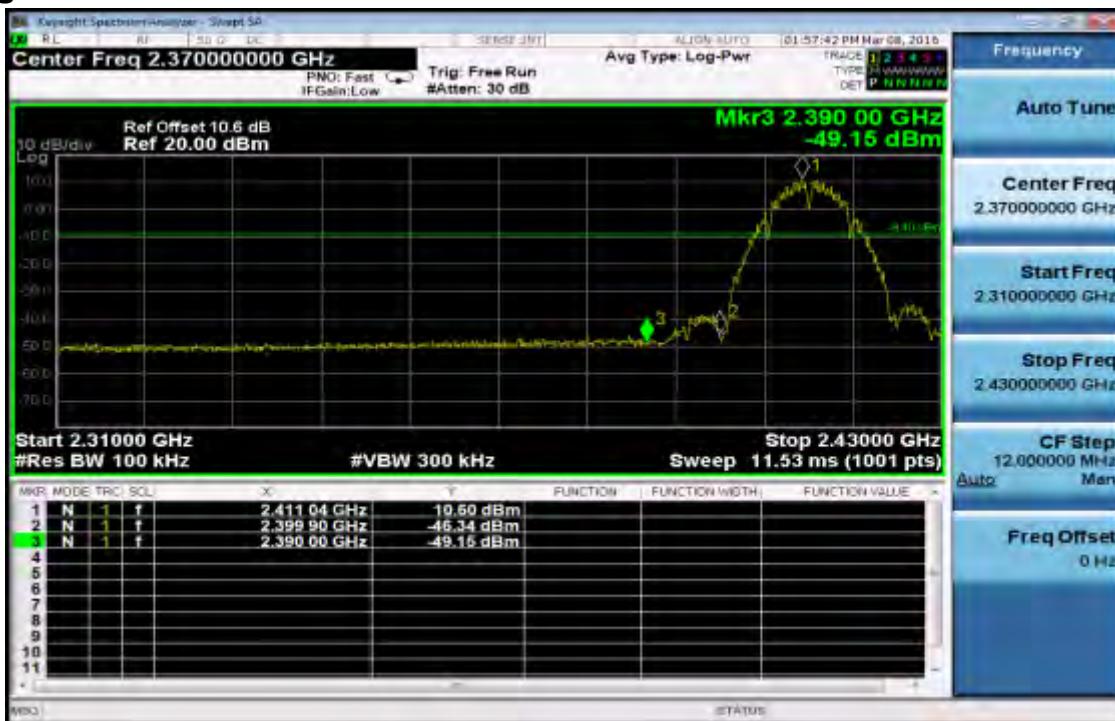
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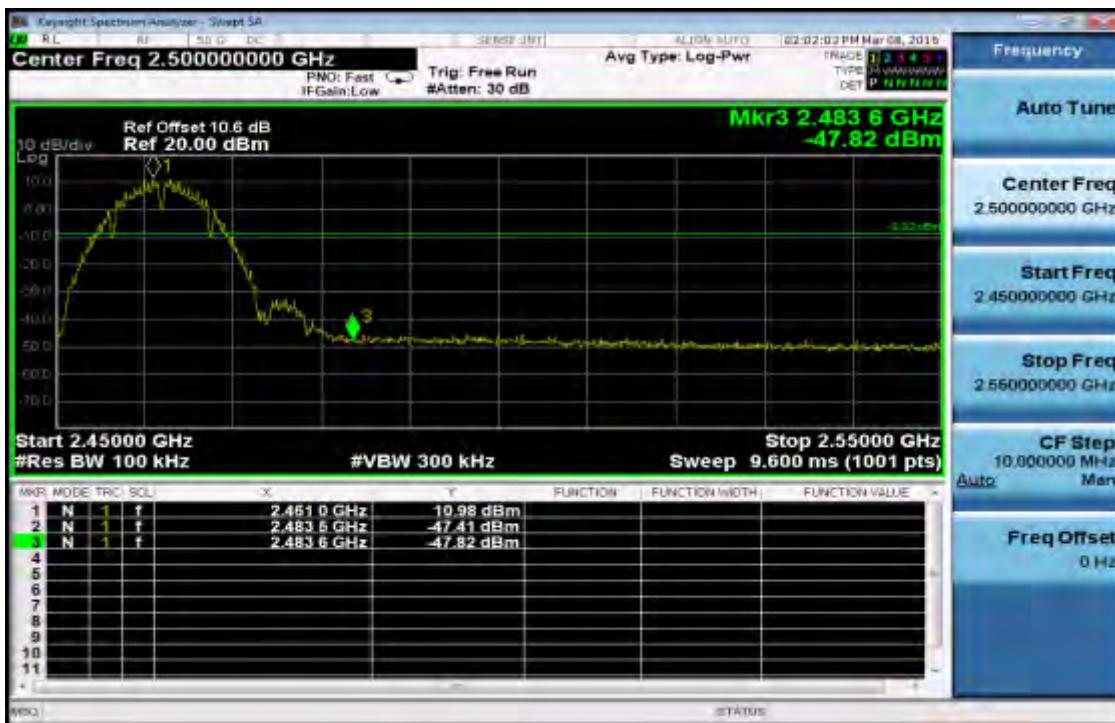
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



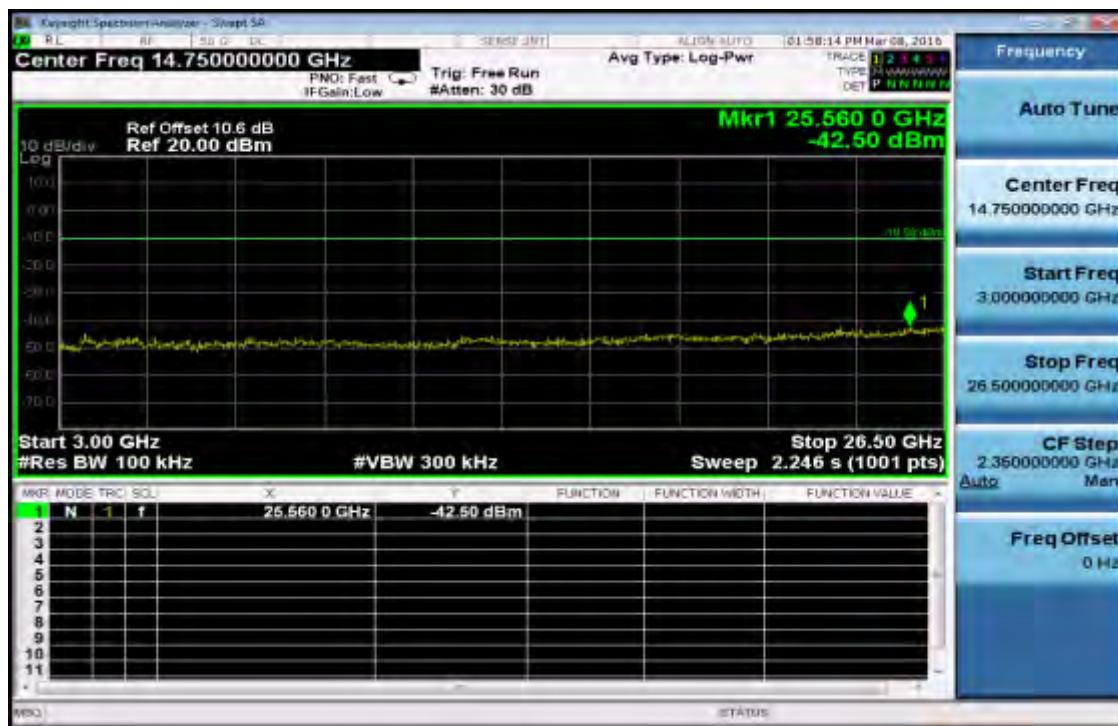
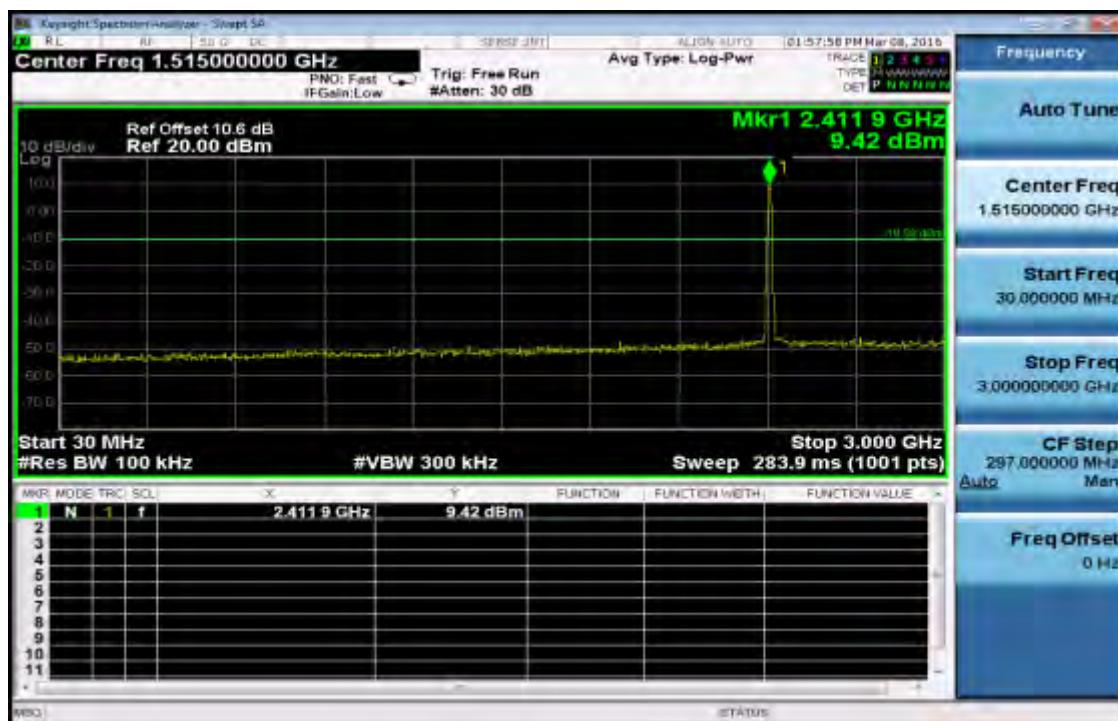
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802.11b

Spurious Emission Test Data CH-Low

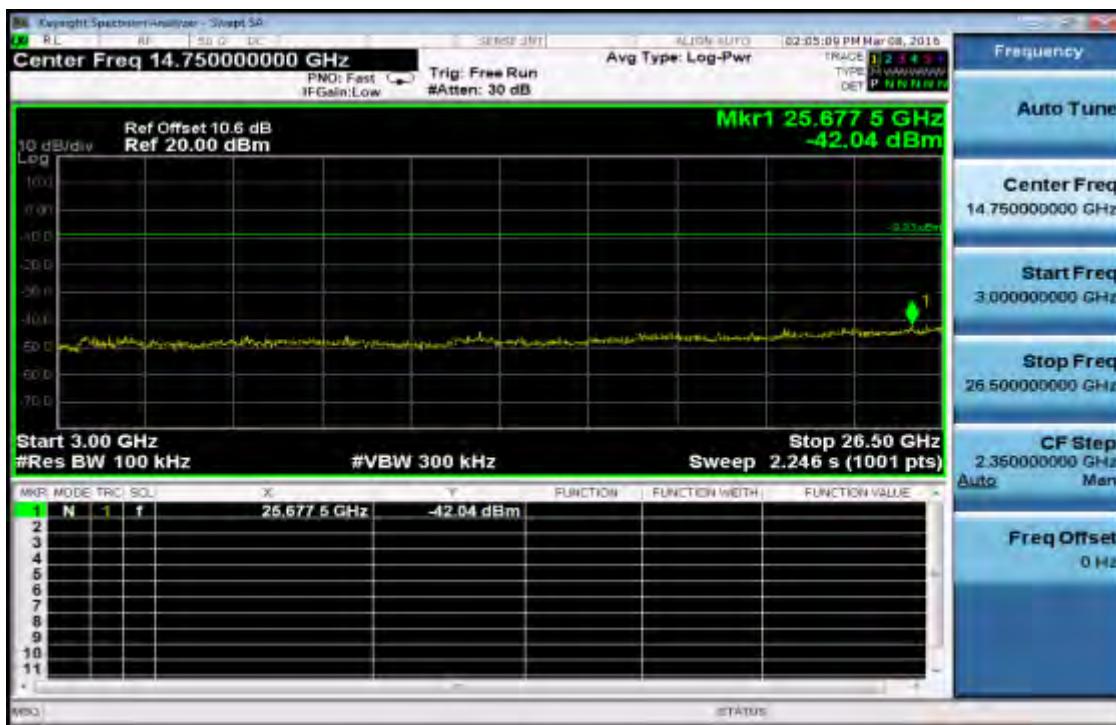
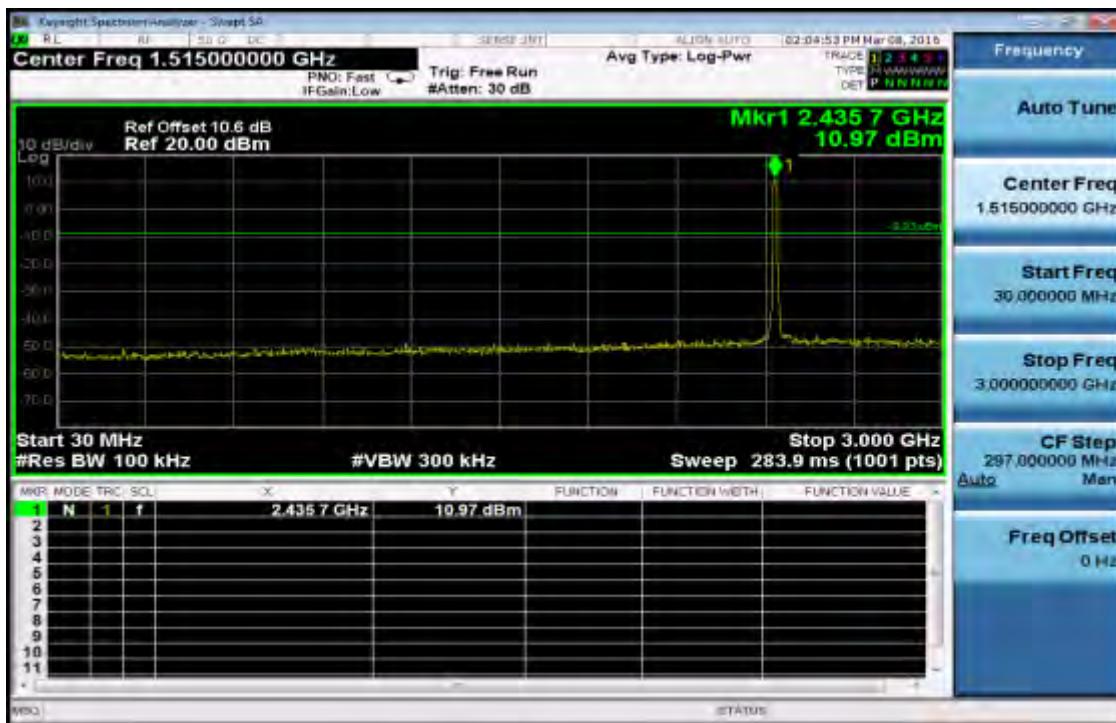


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Spurious Emission Test Data CH-Mid

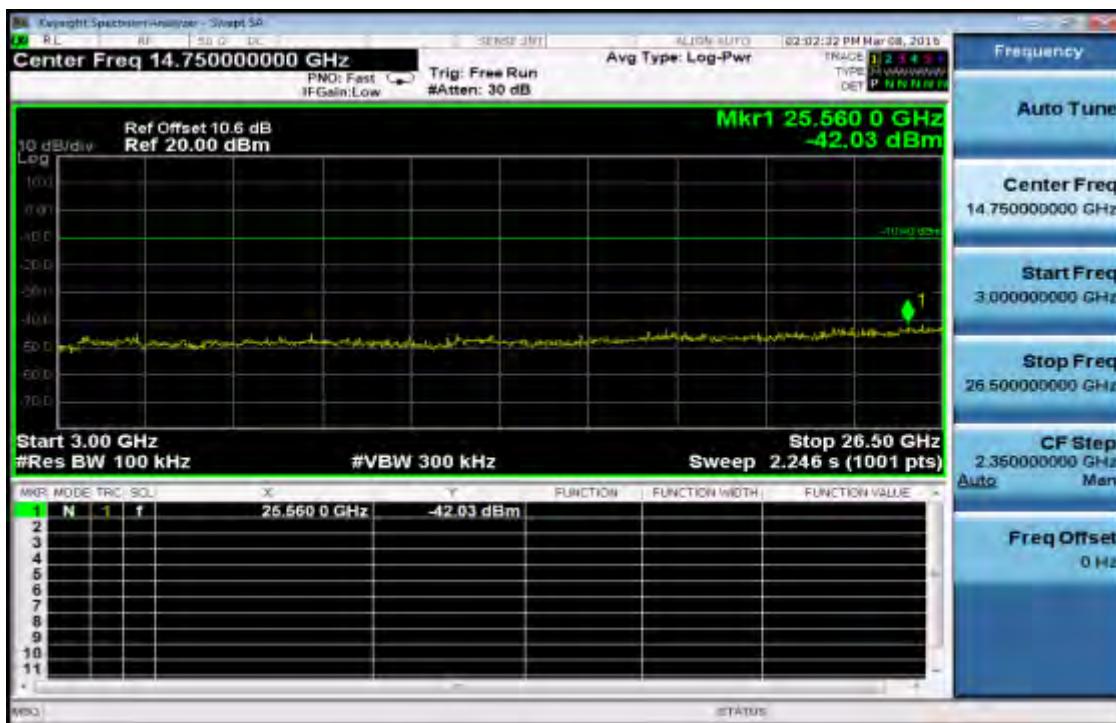
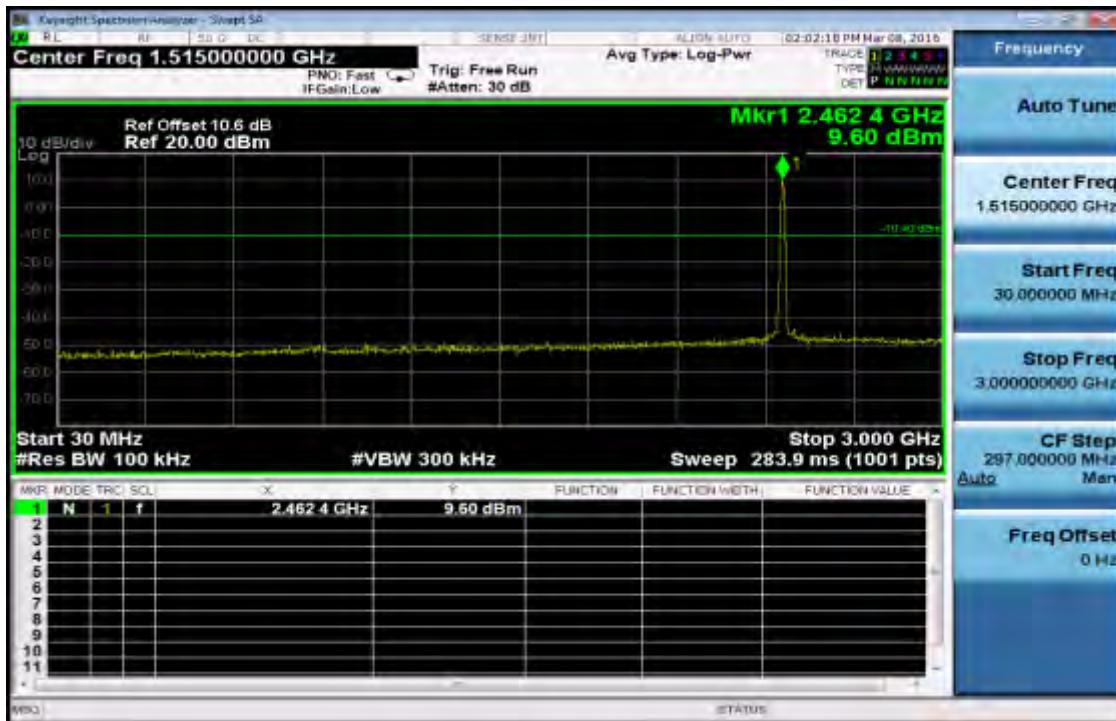


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Spurious Emission Test Data CH-High



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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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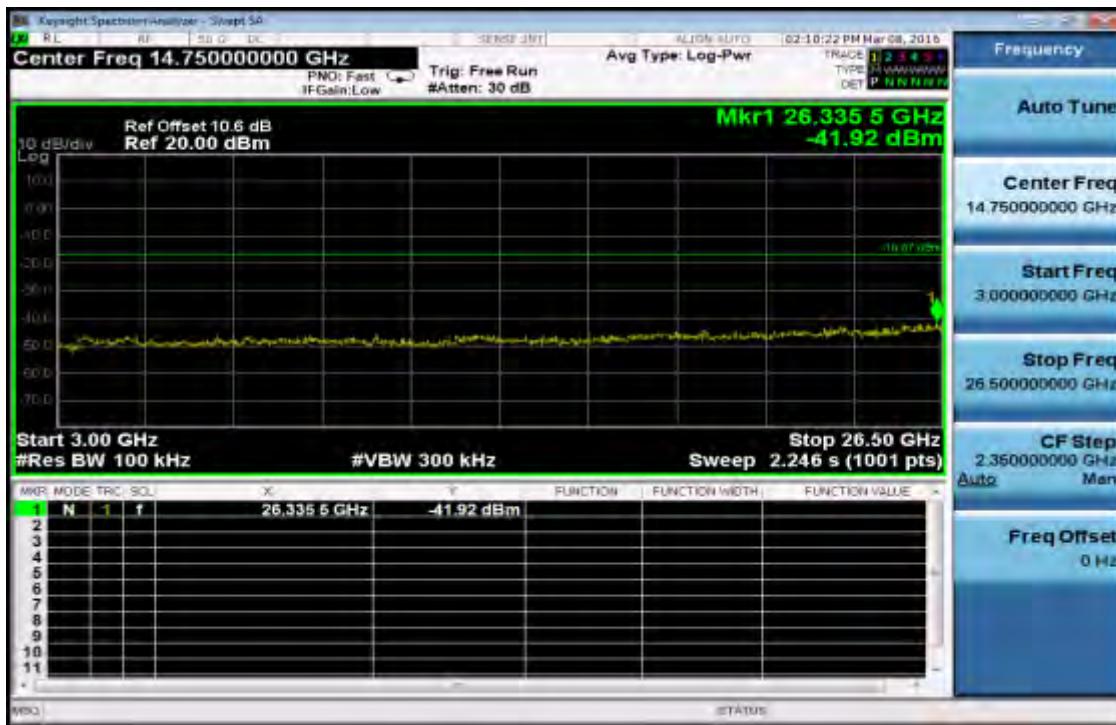
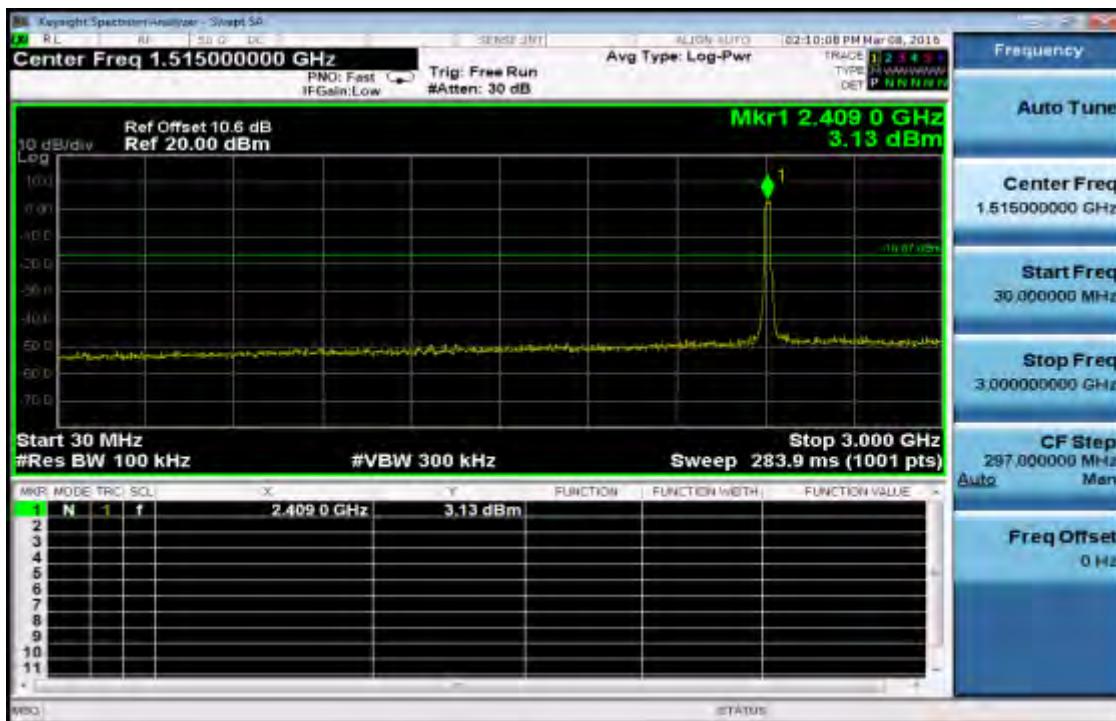
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802.11g

Spurious Emission Test Data CH-Low



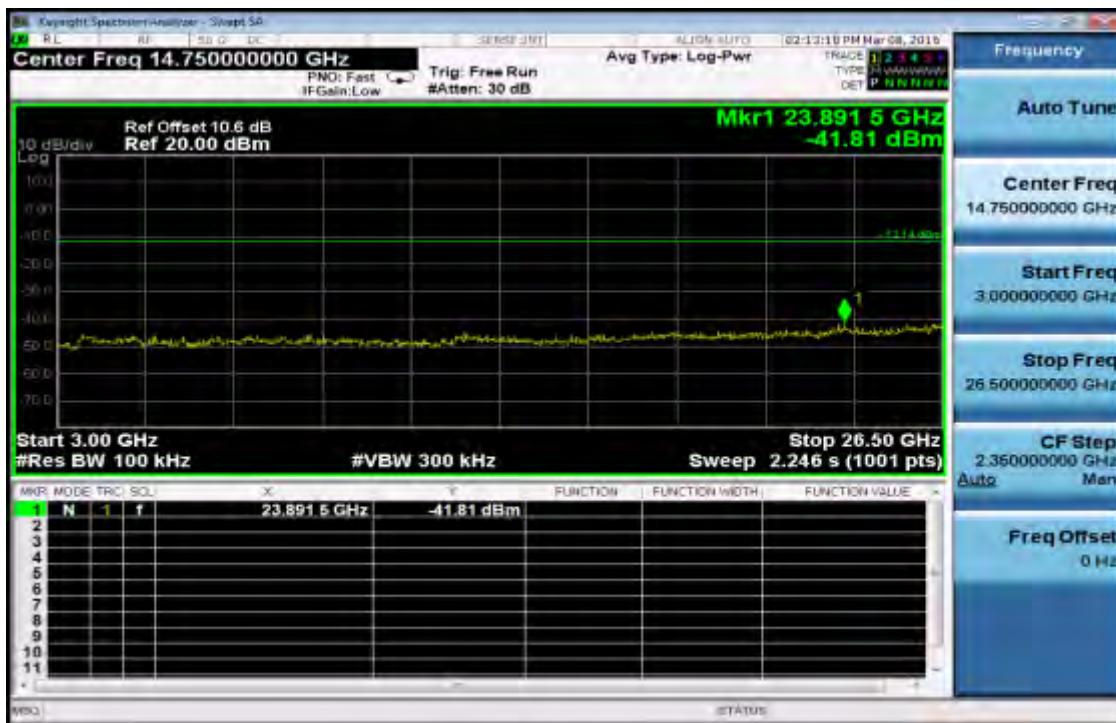
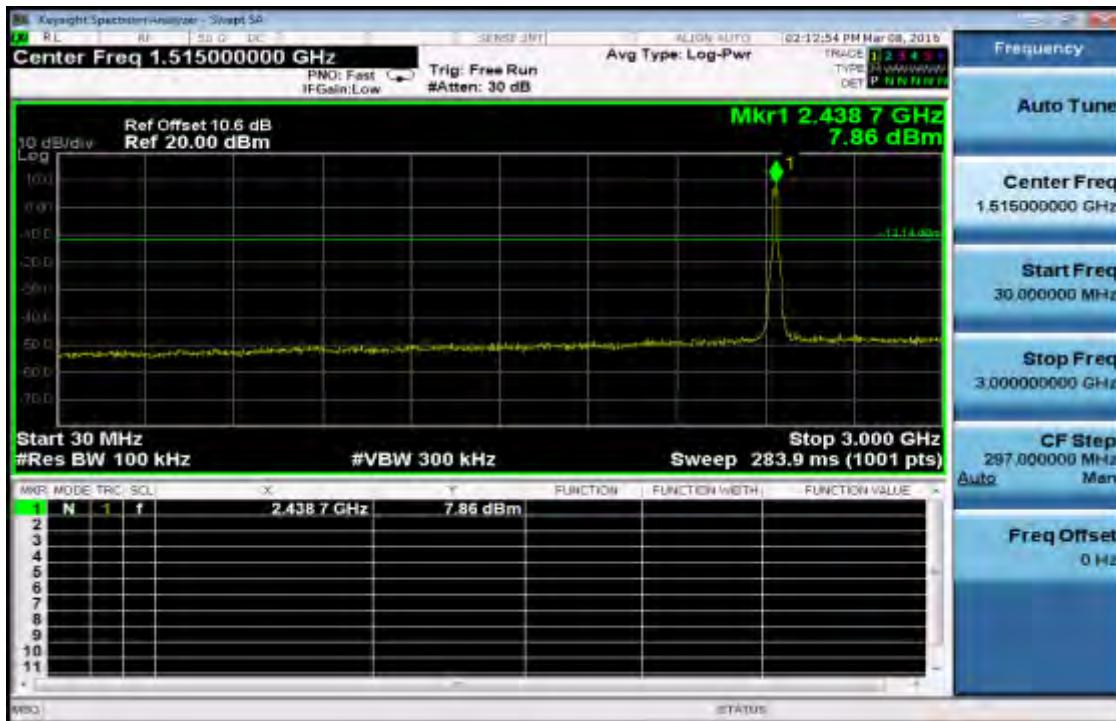
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Spurious Emission Test Data CH-Mid



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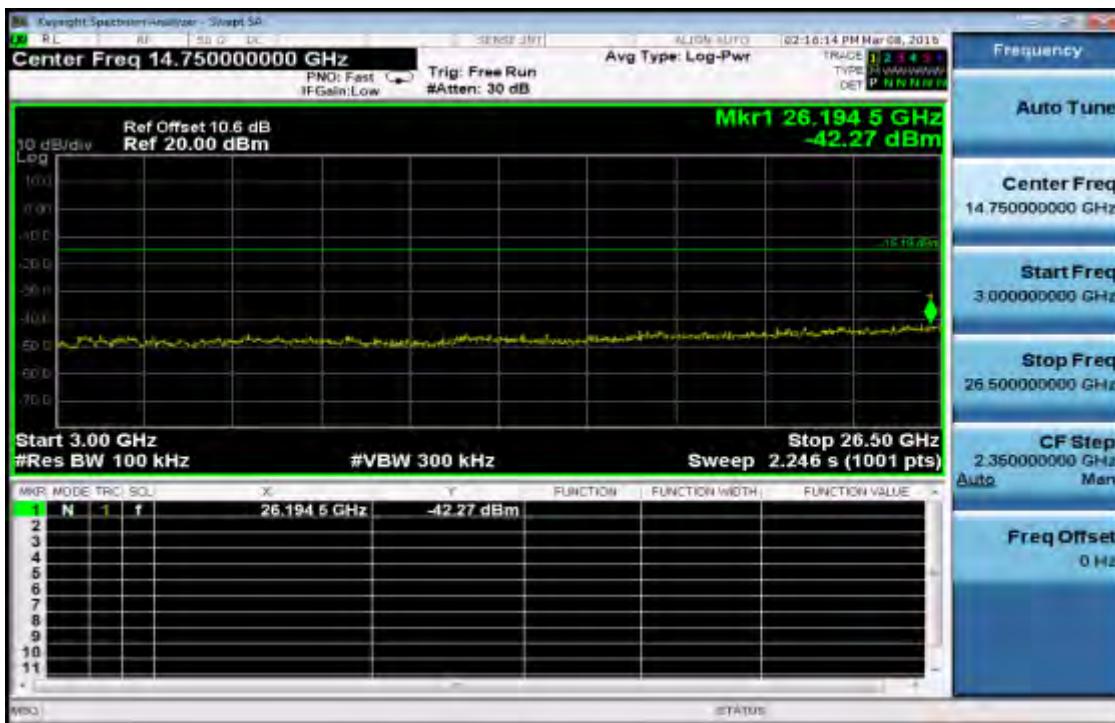
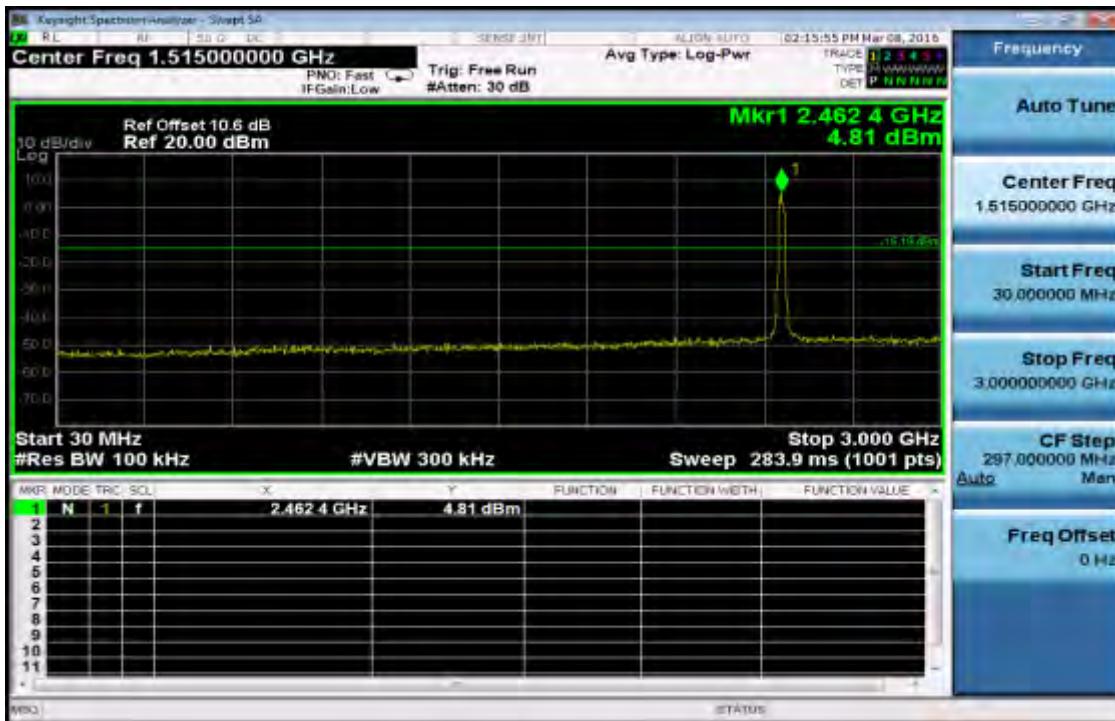
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Spurious Emission Test Data CH-High



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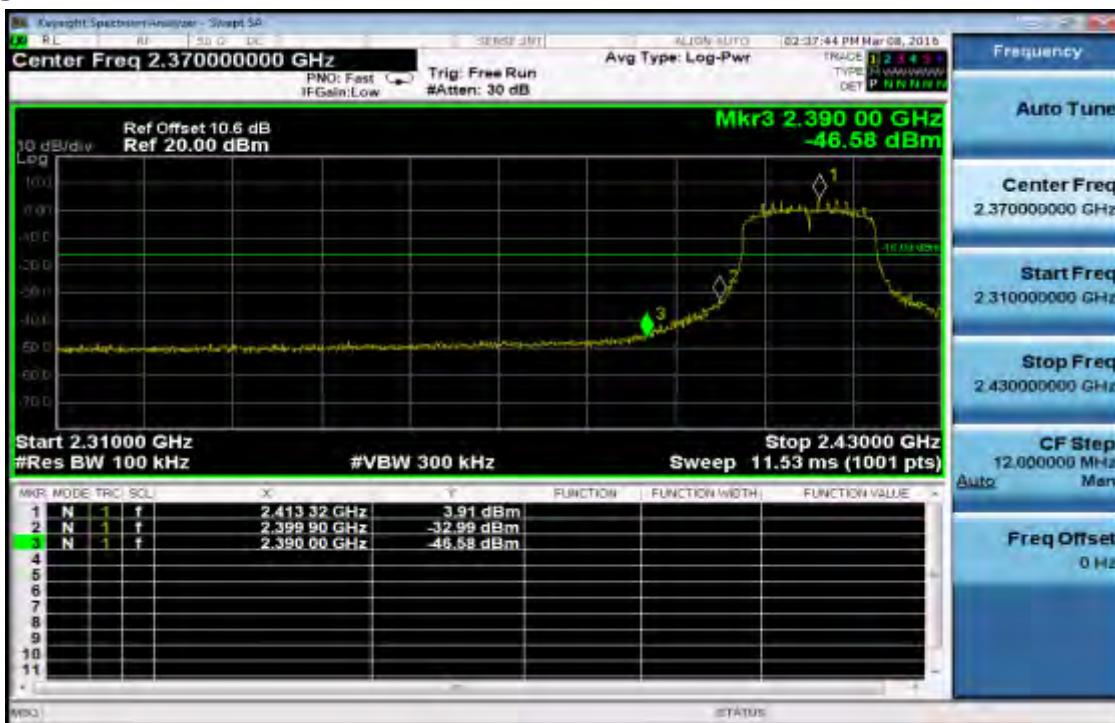
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802.11n VHT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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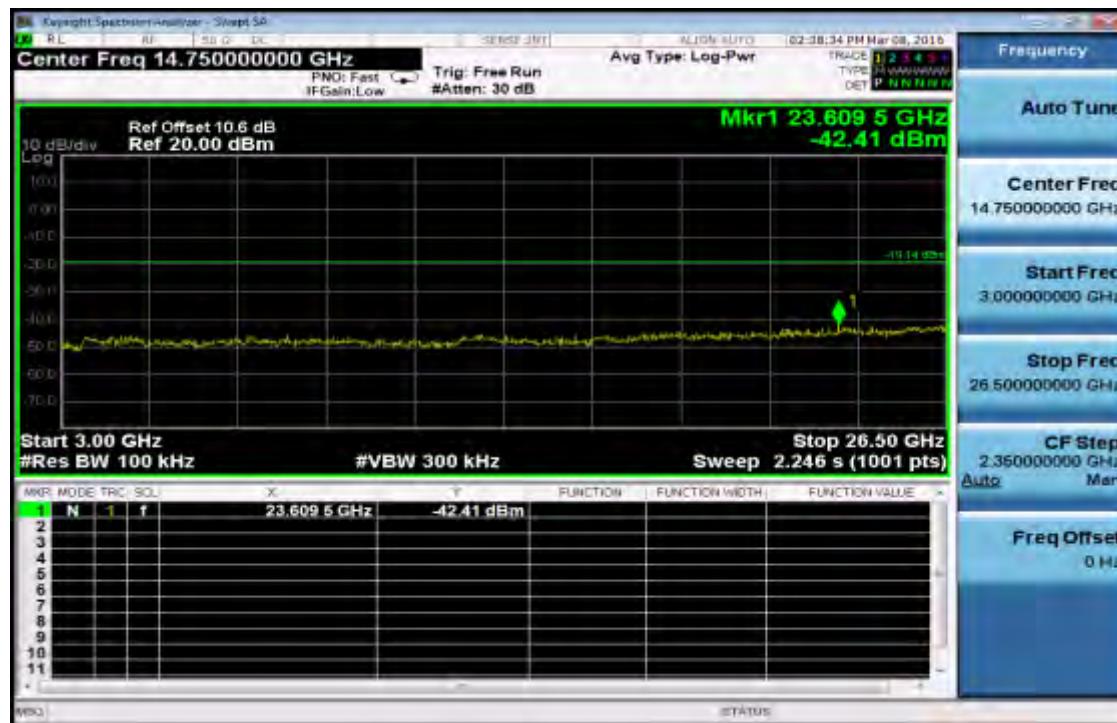
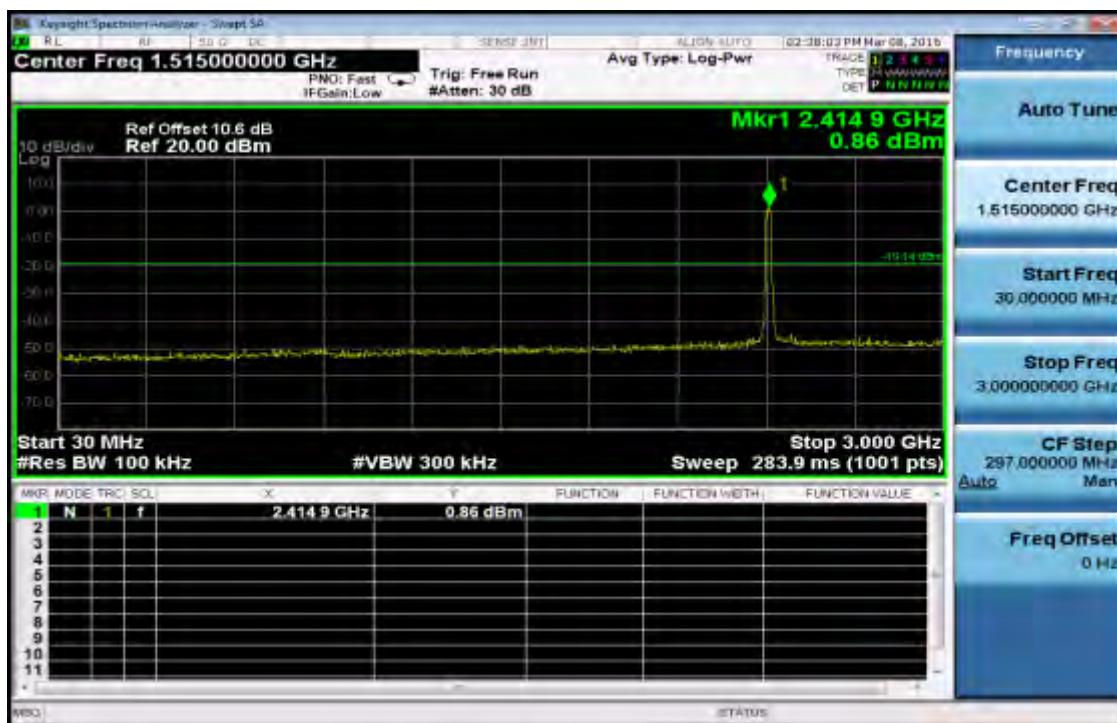
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802.11n VHT20

Spurious Emission Test Data CH-Low



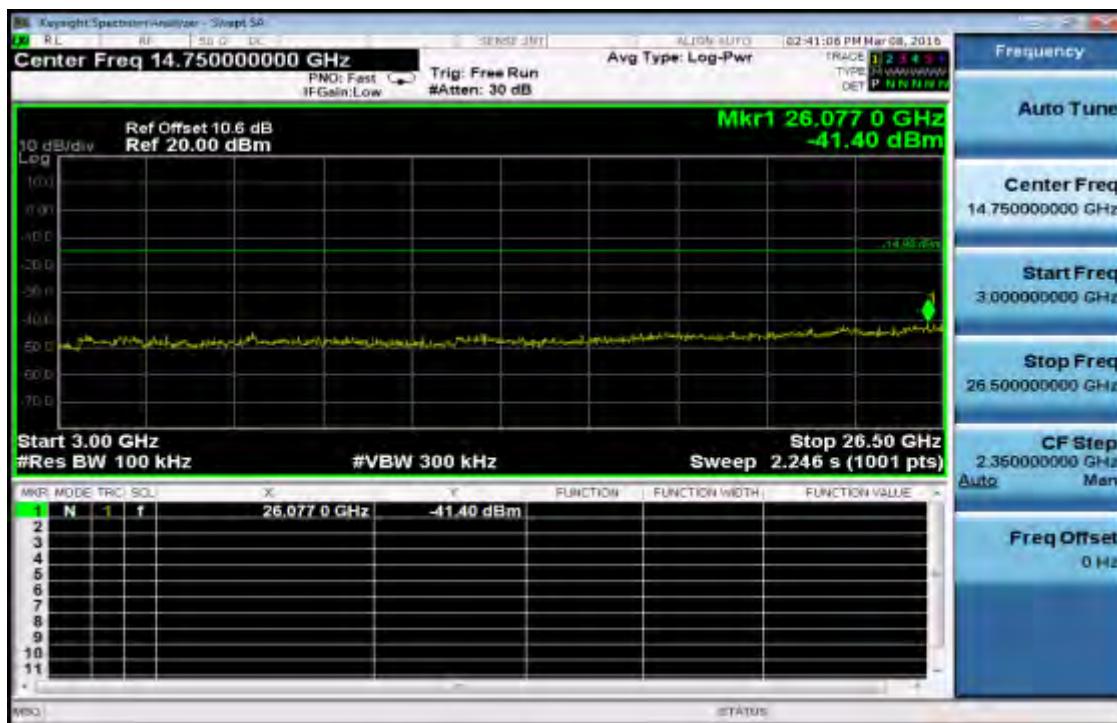
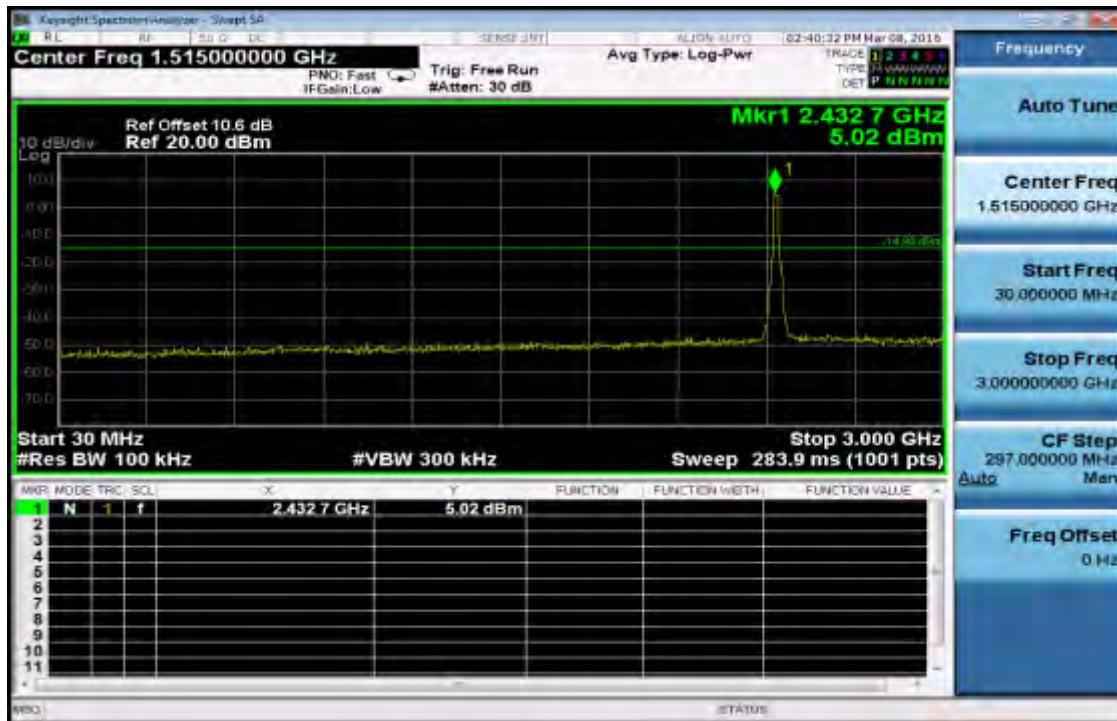
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Spurious Emission Test Data CH-Mid



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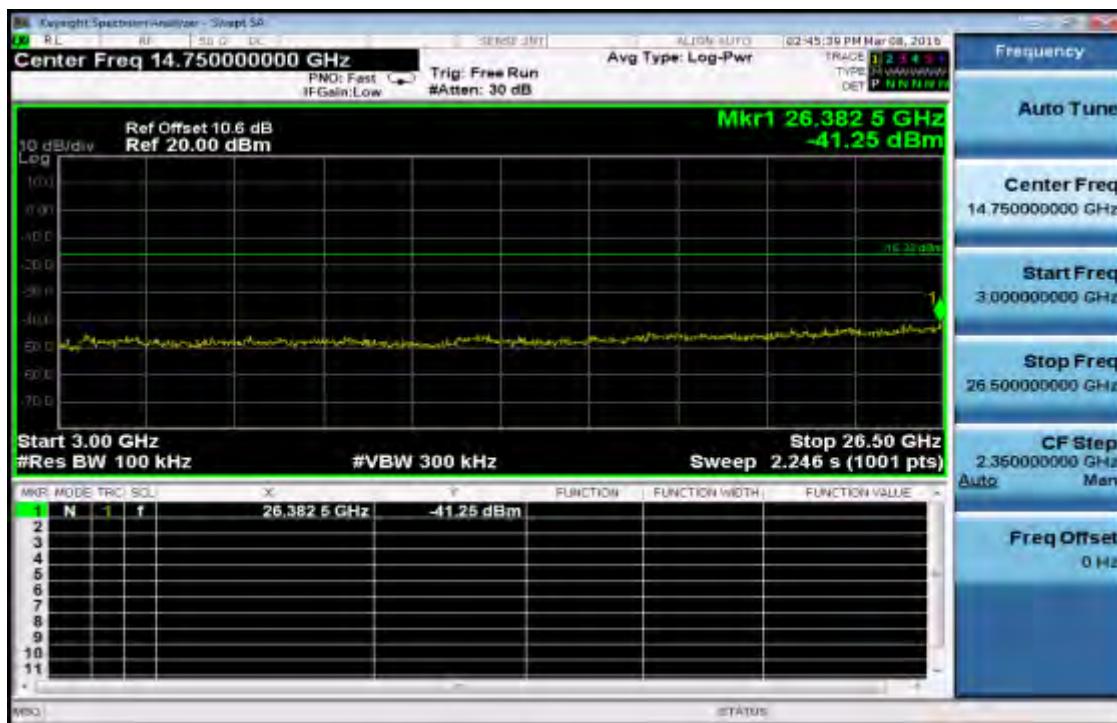
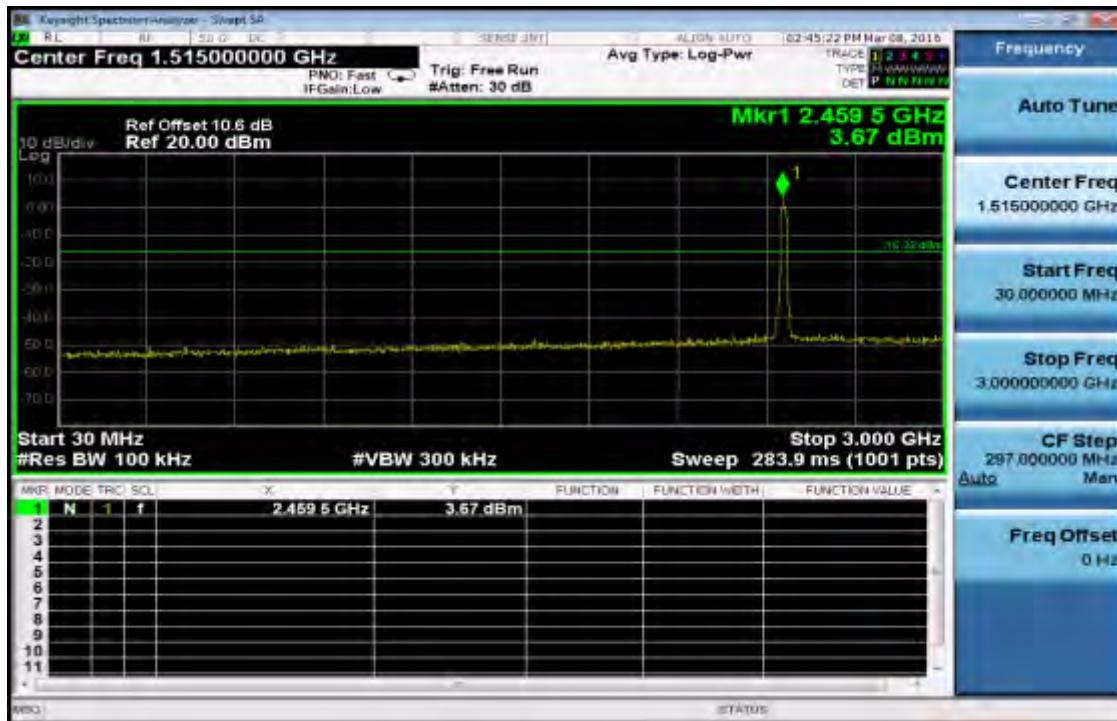
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Spurious Emission Test Data CH-High



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802.11n VHT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



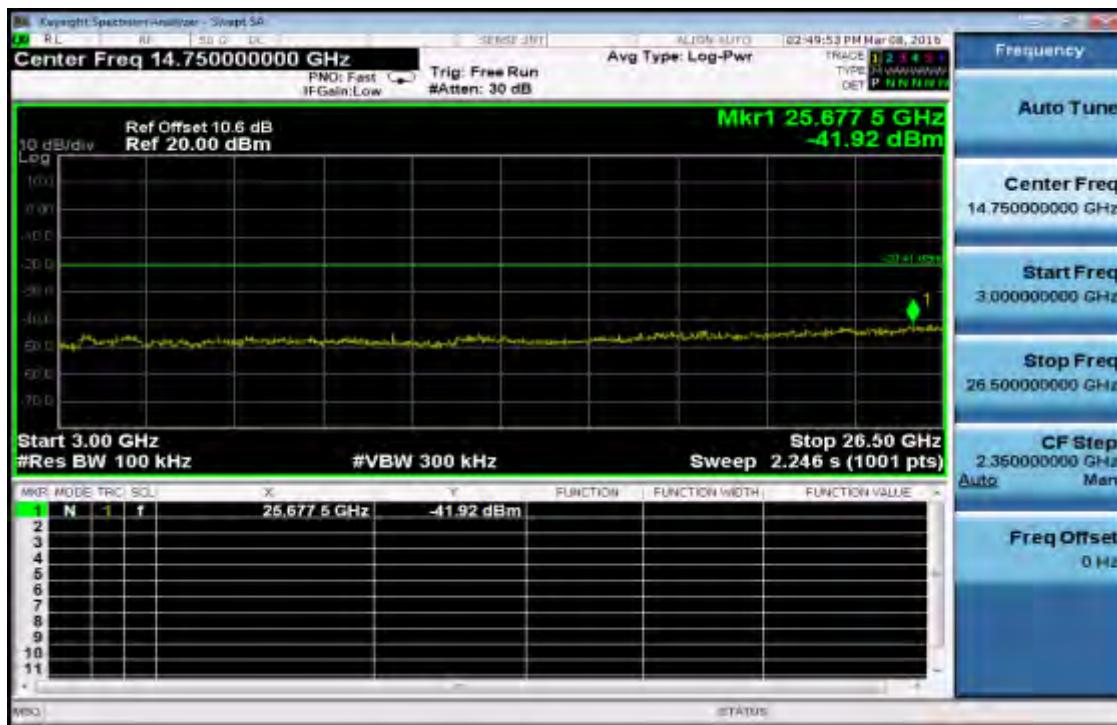
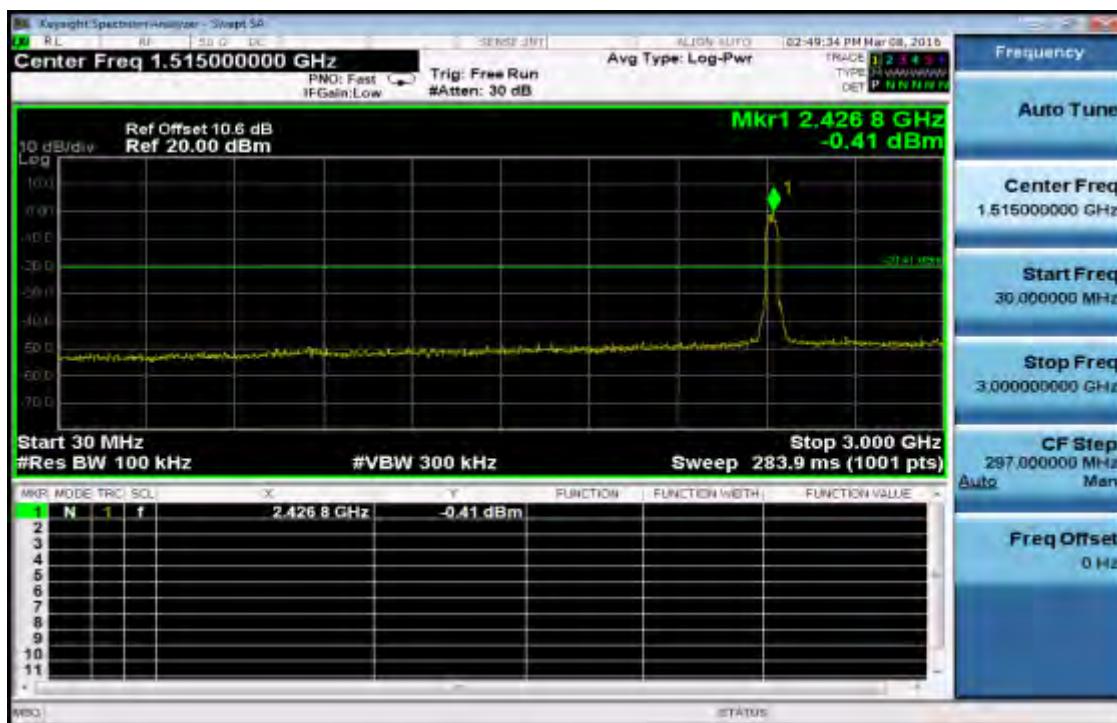
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802.11n VHT40

Spurious Emission Test Data CH-Low

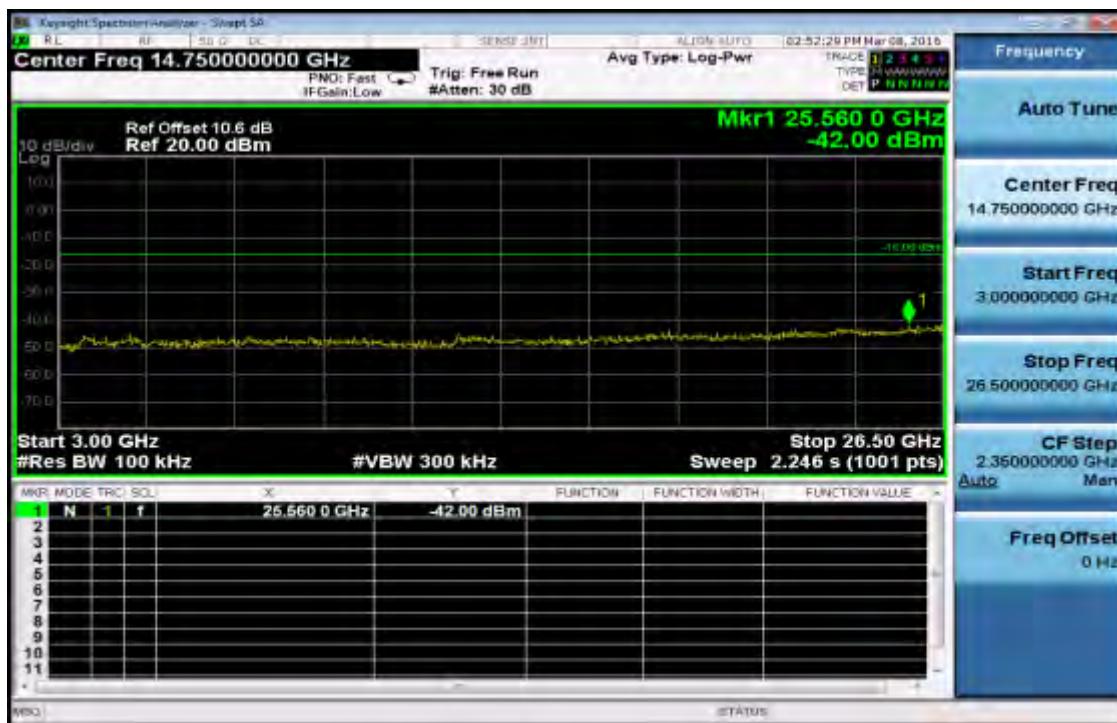
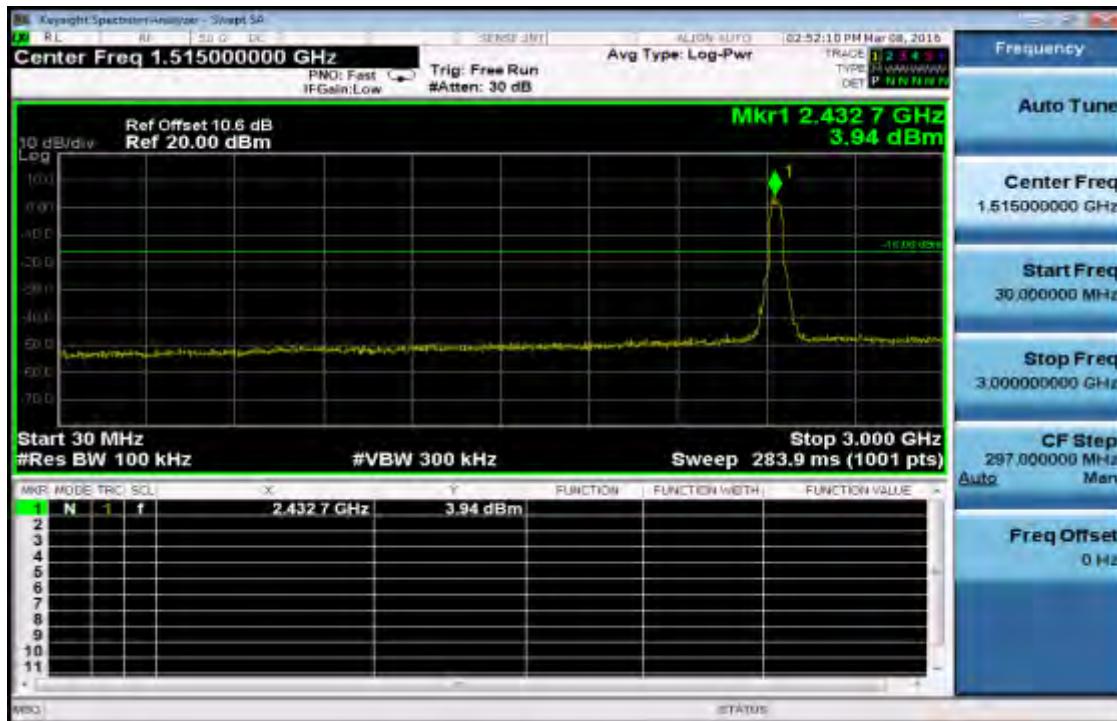


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Spurious Emission Test Data CH-Mid



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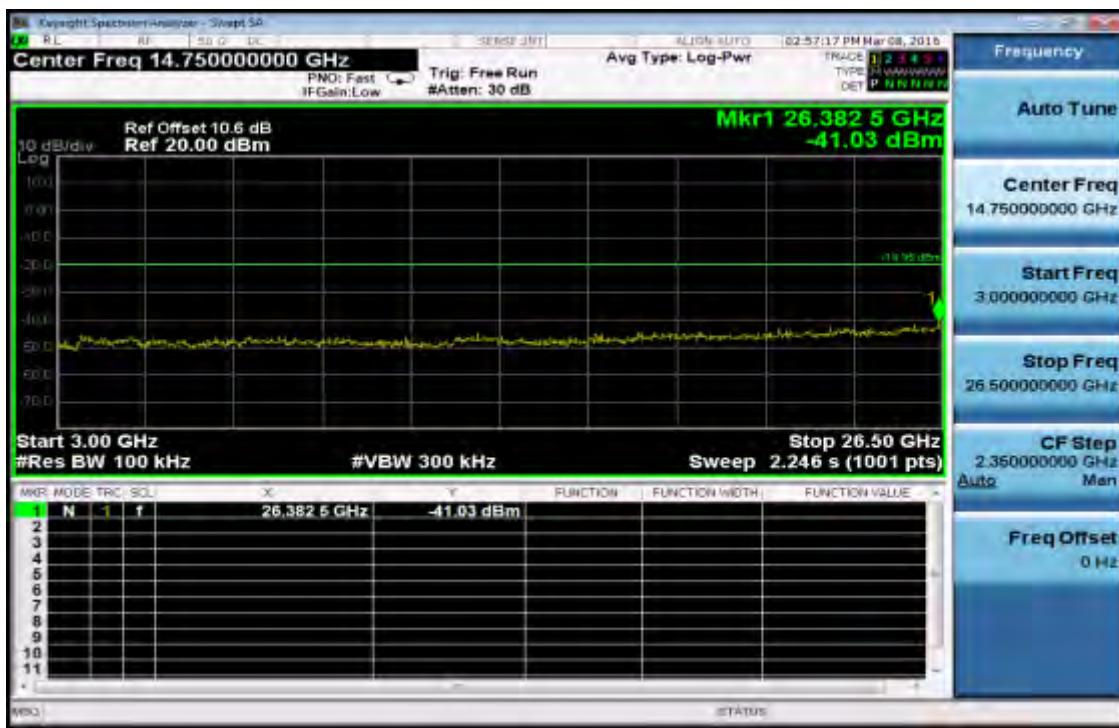
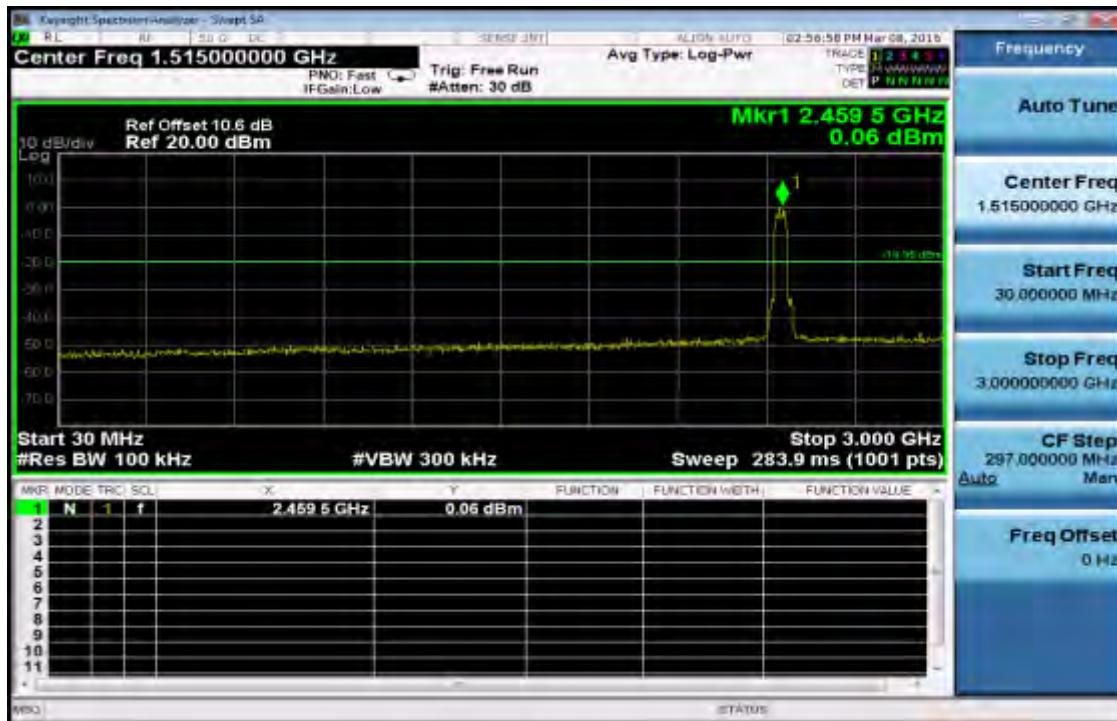
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Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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:

966 Chamber					
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	143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	143272	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	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+SUCAF EX 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	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
Coaxial Cable	Huber+Suhner	mini 141-12+SUCAF LEX 104	966Rx 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
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.

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

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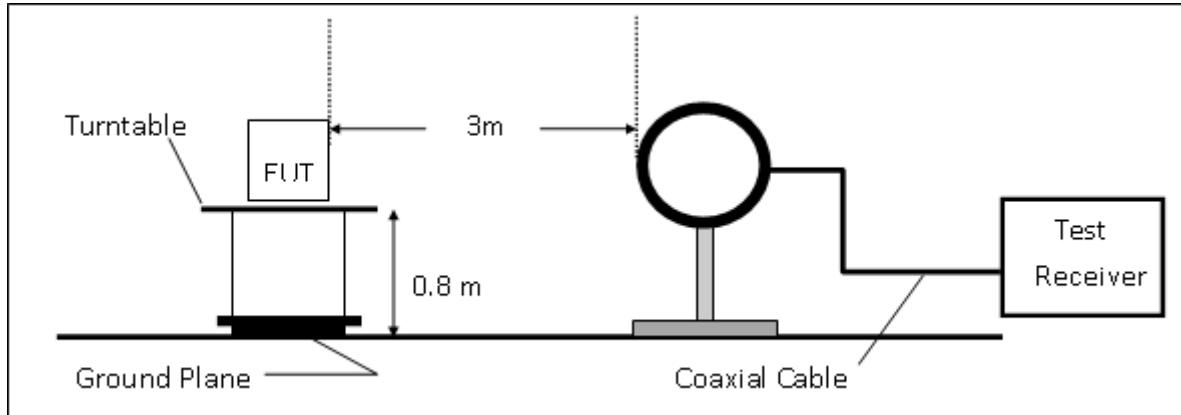
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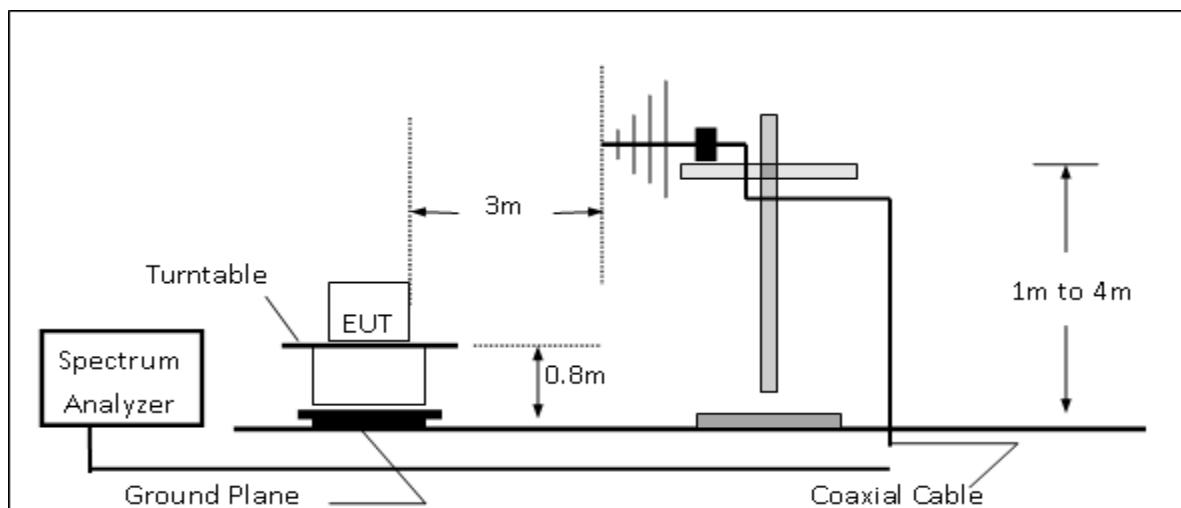
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11.3 Test SET-UP

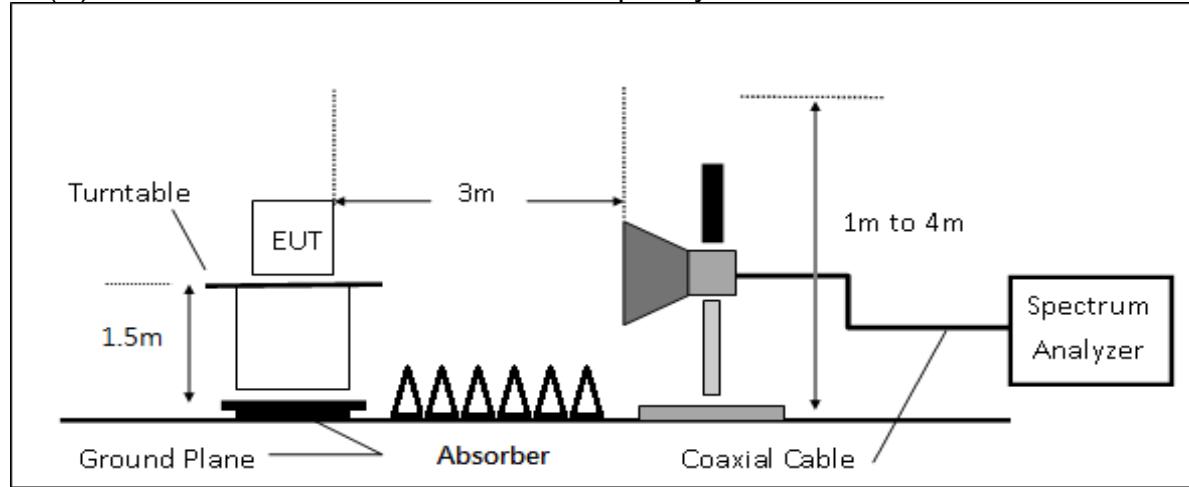
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When 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.
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. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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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:

$$\mathbf{FS = RA + AF + CL - AG}$$

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)

Note :

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

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

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

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

11.7 Measurement Result

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

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode : 802.11b Test Date : 2016/3/15
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
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
2390.00	E	Peak	50.41	5.78	56.19	74	-17.81
2390.00	E	Average	37.71	5.78	43.49	54	-10.51

Operation Mode : 802.11b Test Date : 2016/2/17
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2382.60	S	Peak	55.58	5.68	61.26	74	-12.74
2382.60	S	Average	40.59	5.68	46.27	54	-7.73
2390.00	E	Peak	54.13	5.78	59.91	74	-14.09
2390.00	E	Average	40.74	5.78	46.52	54	-7.48

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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
2483.50	E	Peak	51.22	5.88	57.10	74	-16.90
2483.50	E	Average	36.17	5.88	42.05	54	-11.95

Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	52.60	5.88	58.48	74	-15.52
2483.50	E	Average	39.83	5.88	45.71	54	-8.29
2492.00	S	Peak	55.14	5.85	60.99	74	-13.01
2492.00	S	Average	40.00	5.85	45.85	54	-8.15

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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
2389.44	S	Peak	63.06	5.77	68.83	74	-5.17
2389.44	S	Average	41.89	5.77	47.66	54	-6.34
2390.00	E	Peak	62.27	5.78	68.05	74	-5.95
2390.00	E	Average	42.65	5.78	48.43	54	-5.57

Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2389.44	S	Peak	67.07	5.77	72.83	74	-1.17
2389.44	S	Average	46.37	5.77	52.14	54	-1.86
2390.00	E	Peak	66.38	5.78	72.15	74	-1.85
2390.00	E	Average	46.81	5.78	52.59	54	-1.41

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Operation Mode : 802.11g Test Date : 2016/3/15
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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
2483.50	E	Peak	63.93	5.88	69.81	74	-4.19
2483.50	E	Average	41.95	5.88	47.83	54	-6.17

Operation Mode : 802.11g Test Date : 2016/3/15
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	65.73	5.88	71.61	74	-2.39
2483.50	E	Average	45.63	5.88	51.51	54	-2.49
2483.80	S	Peak	65.96	5.88	71.84	74	-2.16
2483.80	S	Average	45.15	5.88	51.03	54	-2.97

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Radiated Band Edge Measurement Result (802.11n_VHT20)

Operation Mode : 802.11ac20 Test Date : 2016/3/15
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Peak	Average				
2389.44	S	Peak	62.97	5.77	68.74	74	-5.26	
2389.44	S	Average	39.28	5.77	45.05	54	-8.95	
2390.00	E	Peak	61.30	5.78	67.08	74	-6.92	
2390.00	E	Average	39.72	5.78	45.50	54	-8.50	

Operation Mode : 802.11ac20 Test Date : 2016/3/15
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Peak	Average				
2390.00	E	Peak	65.46	5.78	71.24	74	-2.76	
2390.00	E	Average	42.15	5.78	47.93	54	-6.07	

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Operation Mode : 802.11ac20 Test Date : 2016/3/15
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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
2483.50	E	Peak	65.01	5.88	70.90	74	-3.10
2483.50	E	Average	40.53	5.88	46.41	54	-7.59

Operation Mode : 802.11ac20 Test Date : 2016/3/15
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	66.11	5.88	71.99	74	-2.01
2483.50	E	Average	43.40	5.88	49.28	54	-4.72
2483.70	S	Peak	67.02	5.88	72.90	74	-1.10
2483.70	S	Average	43.18	5.88	49.06	54	-4.94

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Radiated Band Edge Measurement Result (802.11n_VHT40)

Operation Mode : 802.11ac40 Test Date : 2016/3/15
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
2389.44	S	Peak	63.08	5.77	68.85	74	-5.15	
2389.44	S	Average	42.79	5.77	48.56	54	-5.44	
2390.00	E	Peak	61.87	5.78	67.64	74	-6.36	
2390.00	E	Average	43.08	5.78	48.86	54	-5.14	

Operation Mode : 802.11ac40 Test Date : 2016/3/15
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			dB μ V	dB				
2388.48	S	Peak	67.05	5.76	72.81	74	-1.19	
2388.48	S	Average	44.25	5.76	50.01	54	-3.99	
2390.00	E	Peak	64.97	5.78	70.75	74	-3.25	
2390.00	E	Average	44.85	5.78	50.63	54	-3.37	

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Operation Mode : 802.11ac40 Test Date : 2016/3/15
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	E	Peak	67.12	5.88	73.00	74	-1.00
2483.50	E	Average	46.87	5.88	52.75	54	-1.25
2487.50	S	Peak	67.08	5.87	72.95	74	-1.05
2487.50	S	Average	44.74	5.87	50.61	54	-3.39

Operation Mode : 802.11ac40 Test Date : 2016/3/15
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
2483.50	E	Peak	65.73	5.88	71.61	74	-2.39
2483.50	E	Average	45.65	5.88	51.53	54	-2.47
2487.90	S	Peak	67.12	5.87	72.98	74	-1.02
2487.90	S	Average	44.13	5.87	50.00	54	-4.00

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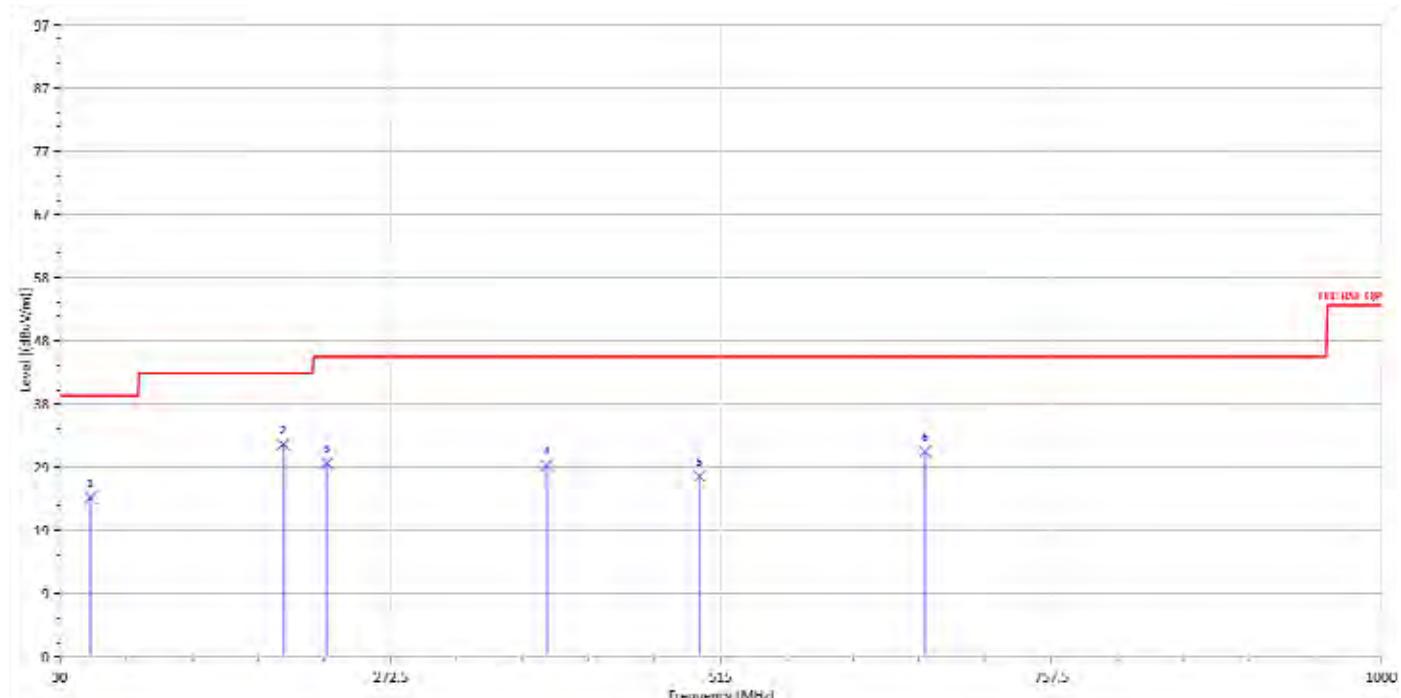
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Below 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result (802.11 g)**

Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



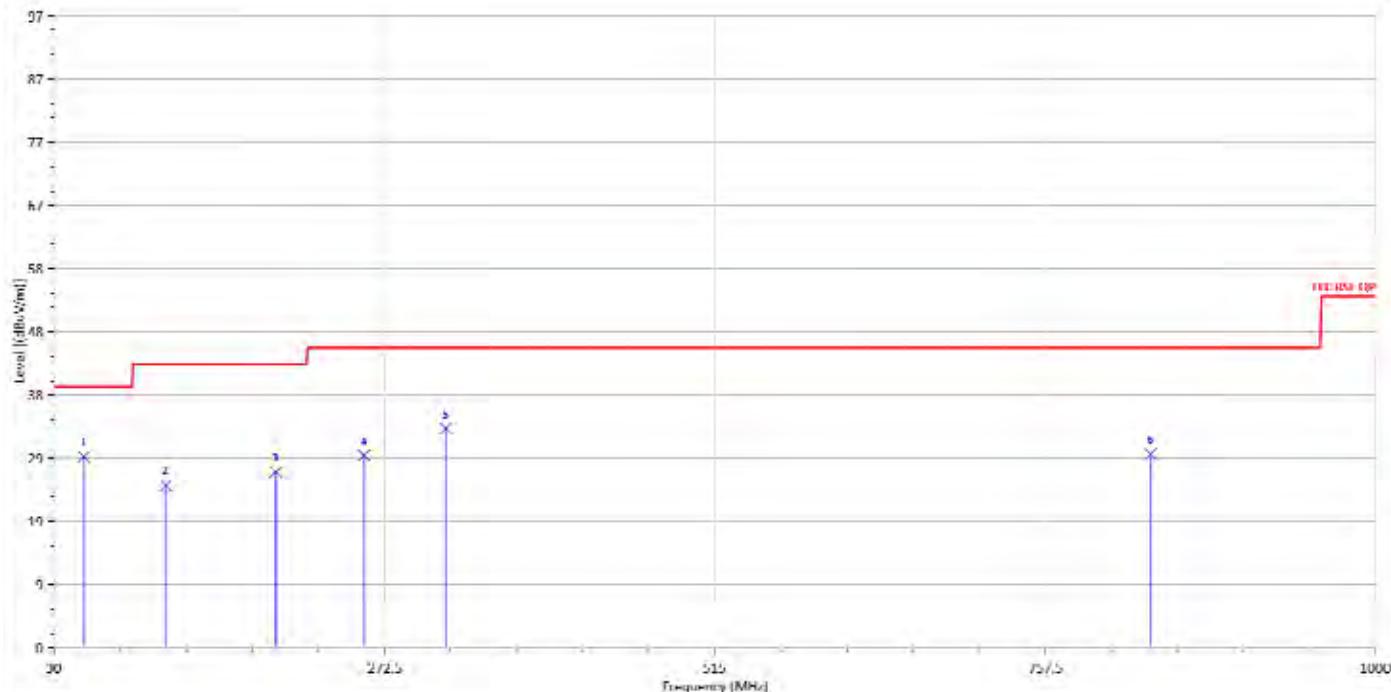
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
52.79	S	QP	44.77	-20.35	24.42	40	-15.58
193.93	S	Peak	50.52	-17.94	32.58	43.5	-10.92
225.94	S	Peak	46.31	-16.66	29.65	46	-16.35
387.93	S	Peak	39.41	-10.09	29.32	46	-16.68
499.48	S	Peak	35.30	-7.66	27.63	46	-18.37
665.35	S	Peak	36.81	-5.37	31.44	46	-14.56

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
52.31	S	Peak	49.45	-20.18	29.28	40	-10.72
112.45	S	Peak	41.27	-16.33	24.94	43.5	-18.56
192.96	S	Peak	44.92	-18.05	26.88	43.5	-16.62
257.95	S	Peak	43.33	-13.86	29.47	46	-16.53
318.09	S	Peak	45.95	-12.30	33.64	46	-12.36
835.10	S	Peak	32.67	-2.98	29.68	46	-16.32

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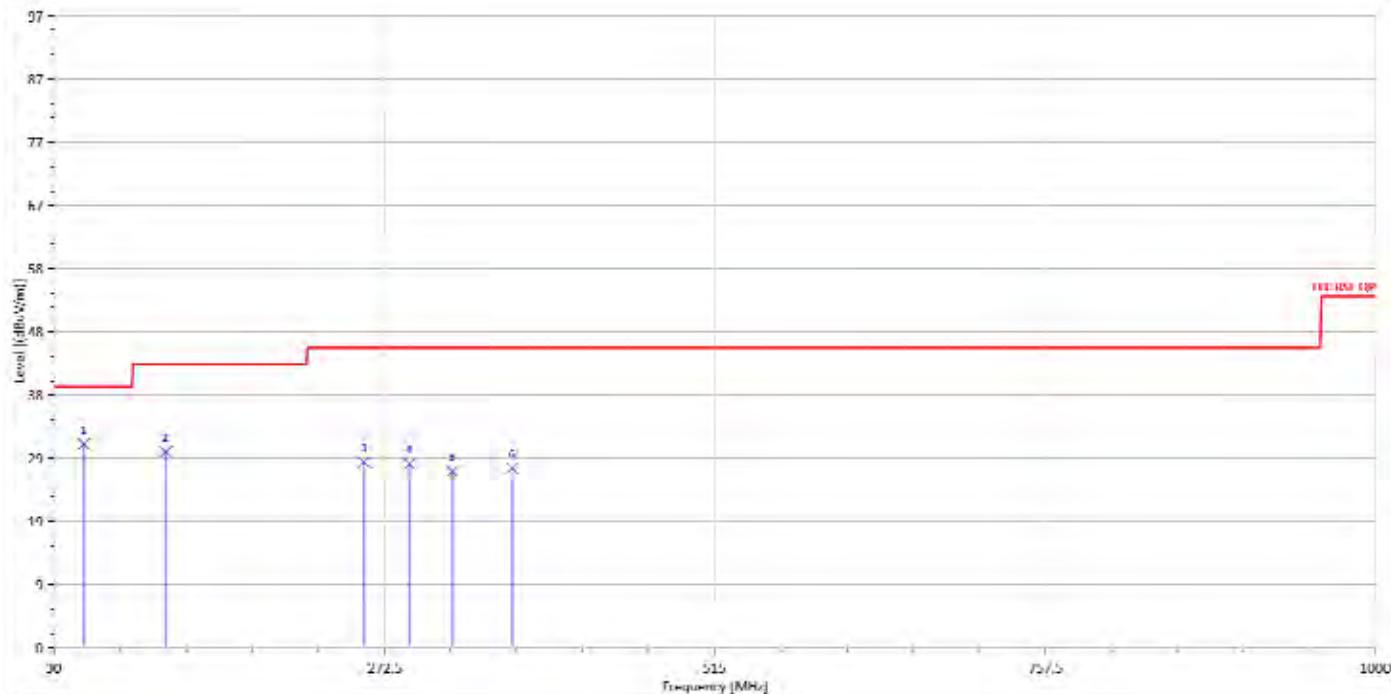
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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
52.31	S	Peak	51.39	-20.18	31.22	40	-8.78
112.45	S	Peak	46.37	-16.33	30.03	43.5	-13.47
257.95	S	Peak	42.25	-13.86	28.39	46	-17.61
290.93	S	Peak	41.42	-13.28	28.14	46	-17.86
322.94	S	Peak	39.00	-11.99	27.01	46	-18.99
366.59	S	Peak	38.35	-10.86	27.49	46	-18.51

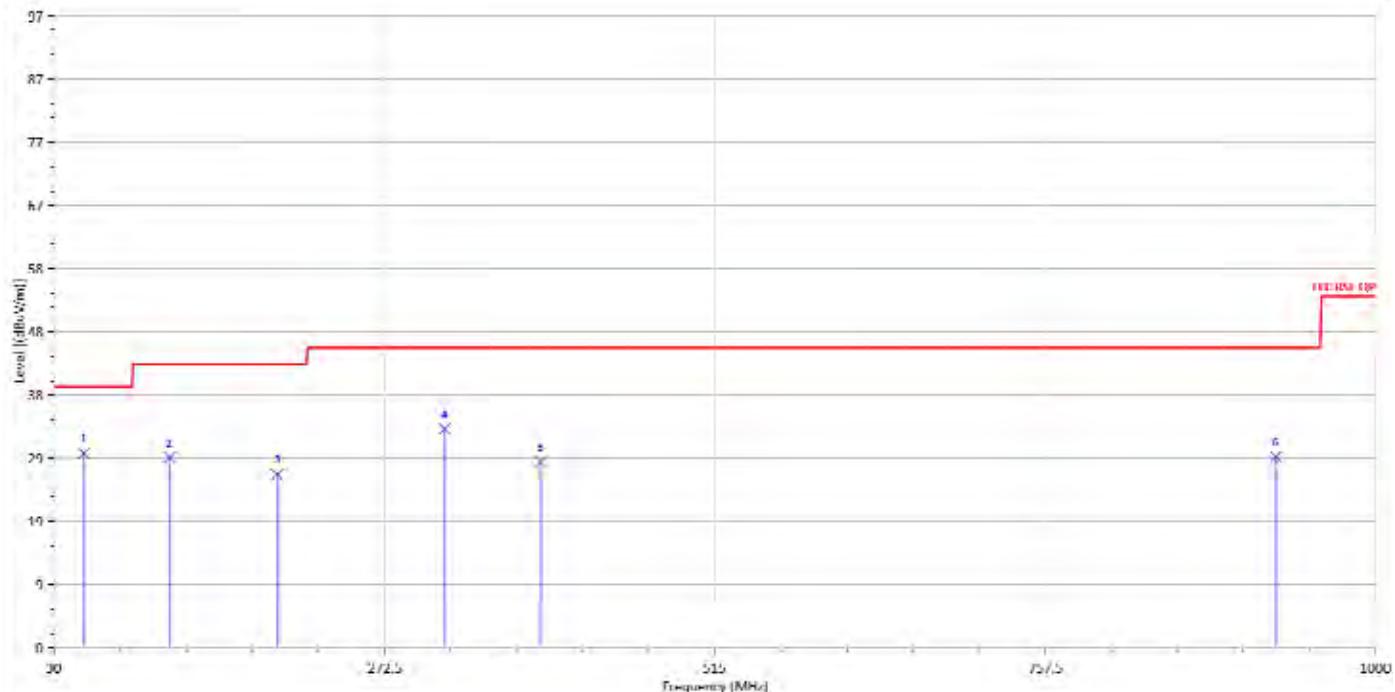
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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



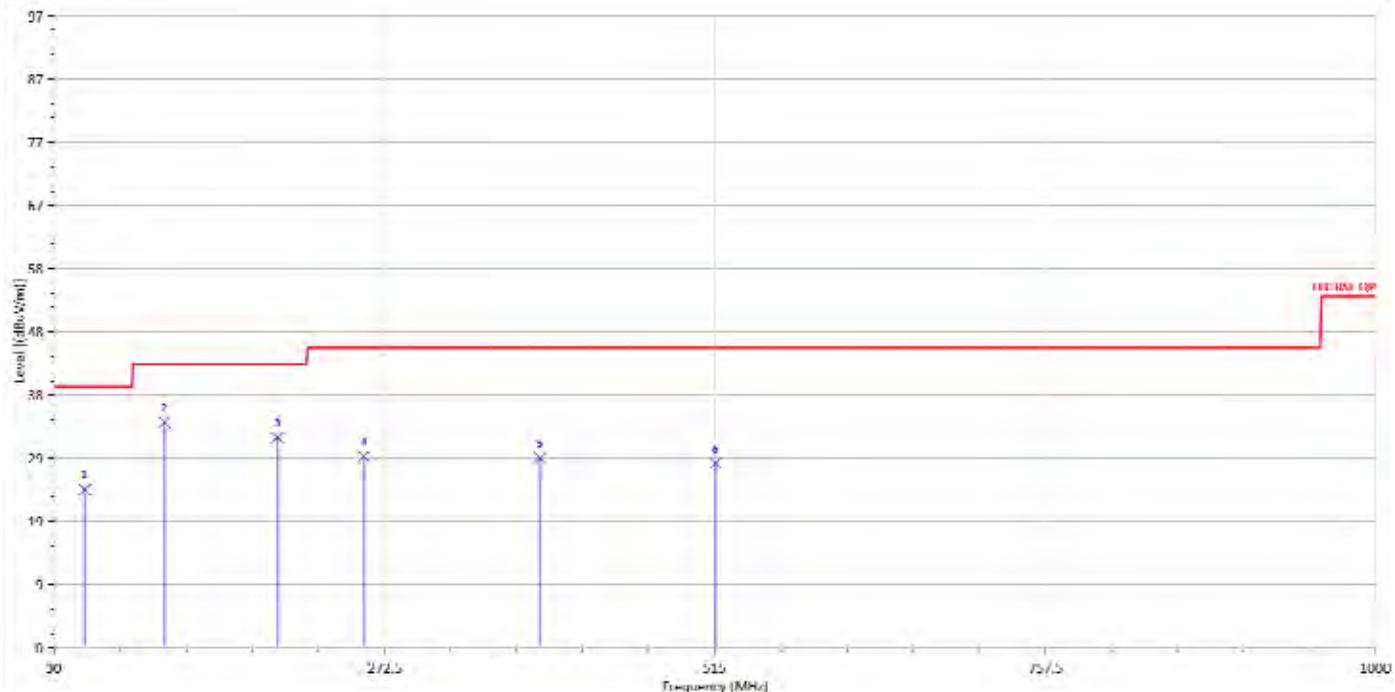
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
52.31	S	Peak	49.96	-20.18	29.79	40	-10.21
115.36	S	Peak	45.30	-16.15	29.15	43.5	-14.35
193.93	S	Peak	44.47	-17.94	26.53	43.5	-16.97
317.12	S	Peak	45.89	-12.31	33.58	46	-12.42
387.93	S	Peak	38.56	-10.09	28.47	46	-17.53
927.25	S	Peak	30.89	-1.61	29.27	46	-16.73

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



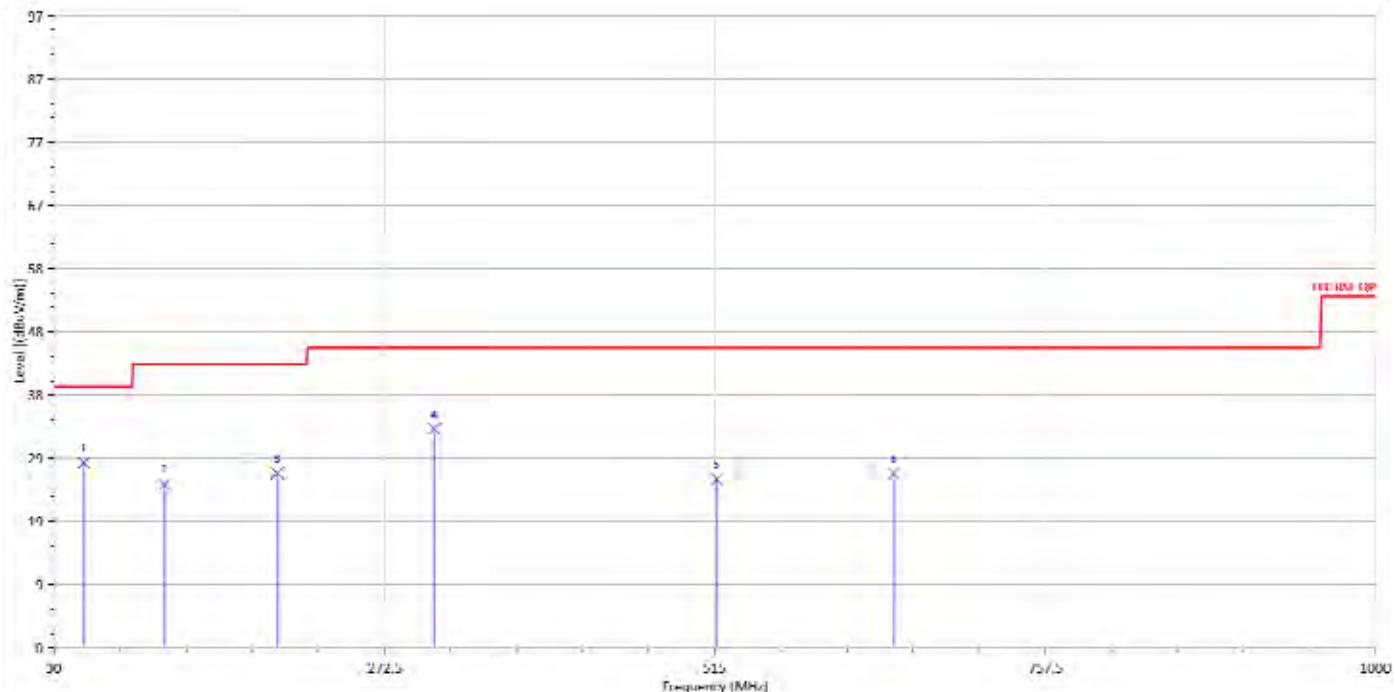
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
52.99	S	QP	44.71	-20.42	24.29	40	-15.71
111.48	S	Peak	50.99	-16.38	34.61	43.5	-8.89
193.93	S	Peak	50.20	-17.94	32.25	43.5	-11.25
257.95	S	Peak	43.18	-13.86	29.32	46	-16.68
386.96	S	Peak	39.21	-10.15	29.06	46	-16.94
515.97	S	Peak	35.93	-7.67	28.26	46	-17.74

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
52.31	S	Peak	48.47	-20.18	28.30	40	-11.70
111.48	S	Peak	41.46	-16.38	25.08	43.5	-18.42
193.93	S	Peak	44.66	-17.94	26.71	43.5	-16.79
309.36	S	Peak	46.19	-12.62	33.58	46	-12.42
516.94	S	Peak	33.61	-7.79	25.82	46	-20.18
646.92	S	Peak	31.60	-4.92	26.68	46	-19.32

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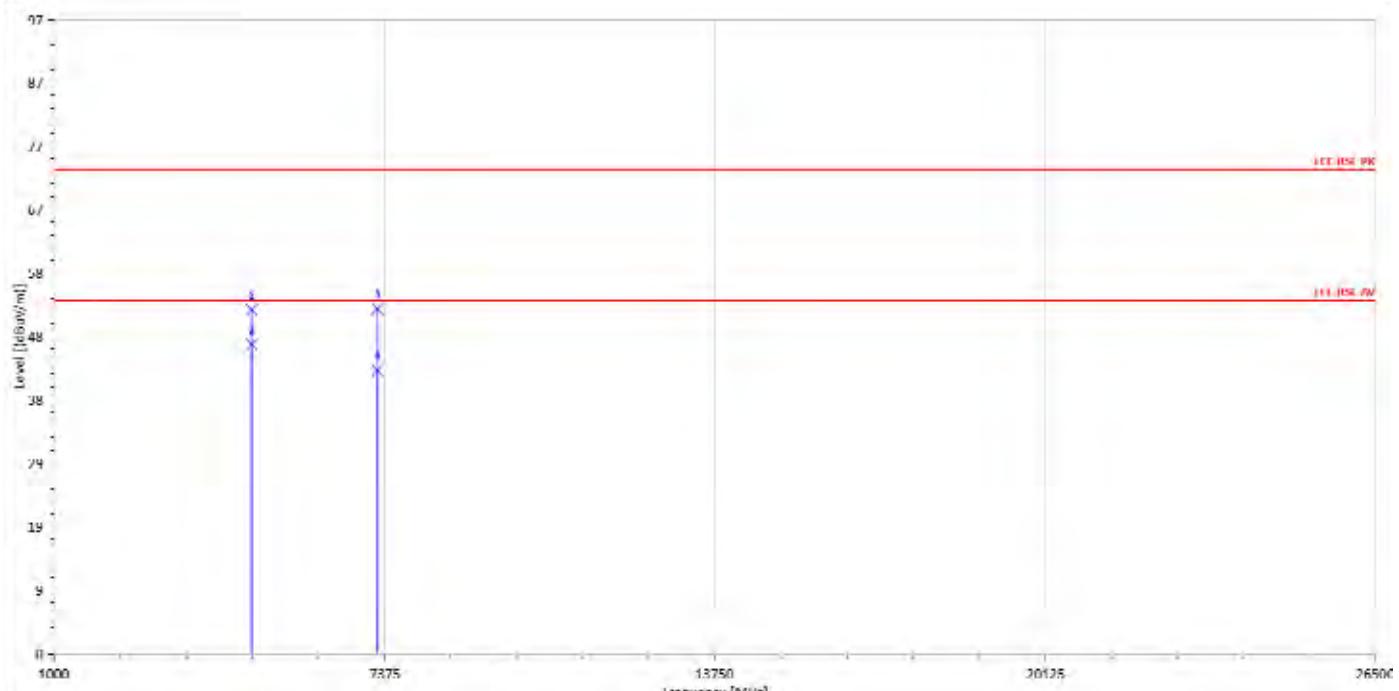
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SGS Taiwan Ltd. | No.134,WuKungRoad,NewTaipeiIndustrialPark,WukuDistrict,NewTaipeiCity,Taiwan24803/新北市五股區新北產業園區五工路134號

Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b)**

Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



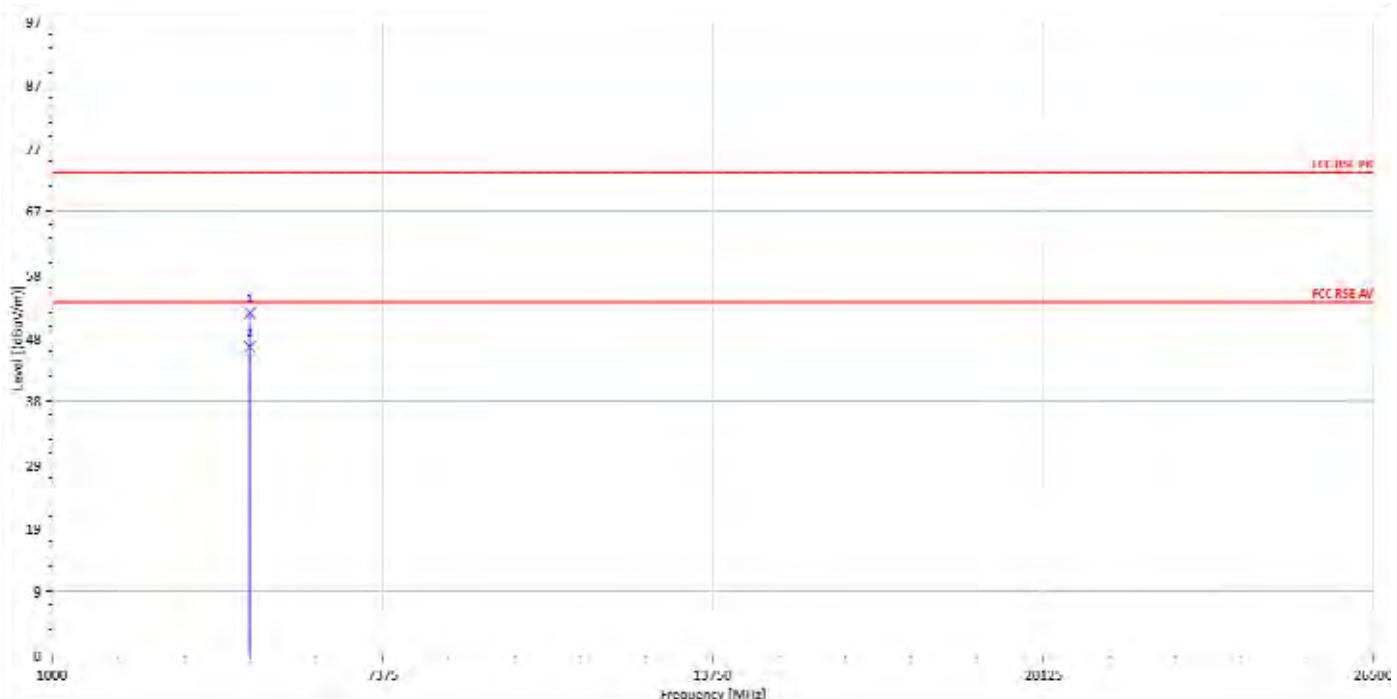
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	42.17	10.43	52.60	74	-21.40
4824.00	H	Average	36.81	10.43	47.24	54	-6.76
7236.00	H	Peak	38.50	14.24	52.74	74	-21.26
7236.00	H	Average	29.02	14.24	43.26	54	-10.74

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



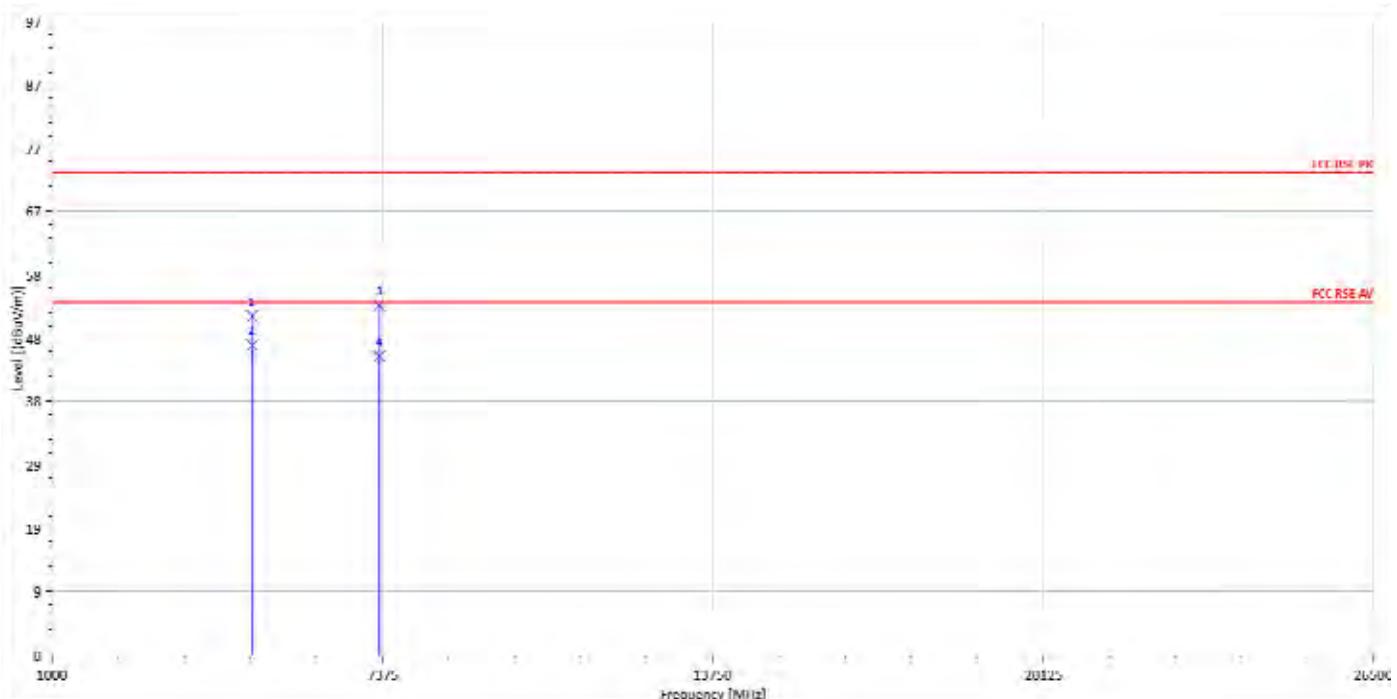
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	41.96	10.43	52.39	74	-21.61
4824.00	H	Average	36.81	10.43	47.24	54	-6.76

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



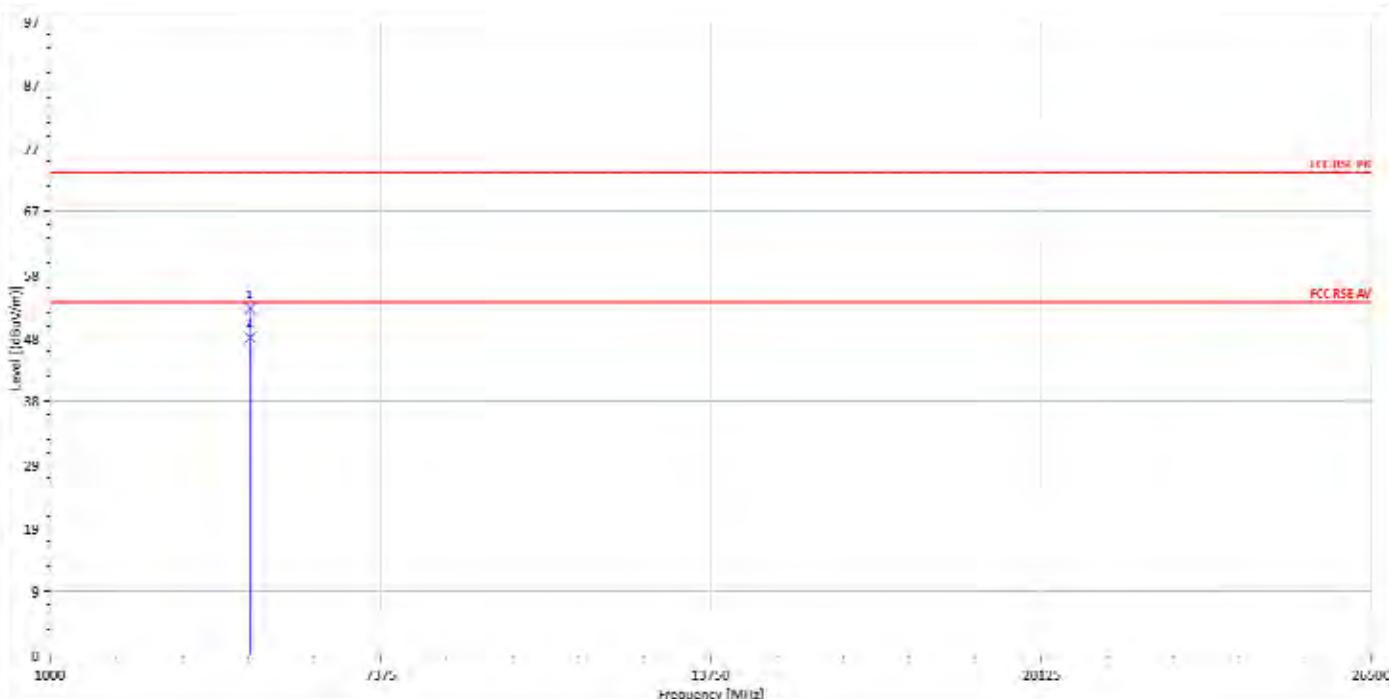
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	41.25	10.66	51.91	74	-22.09
4874.00	H	Average	36.85	10.66	47.51	54	-6.49
7311.00	H	Peak	39.52	13.99	53.51	74	-20.49
7311.00	H	Average	31.83	13.99	45.82	54	-8.18

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



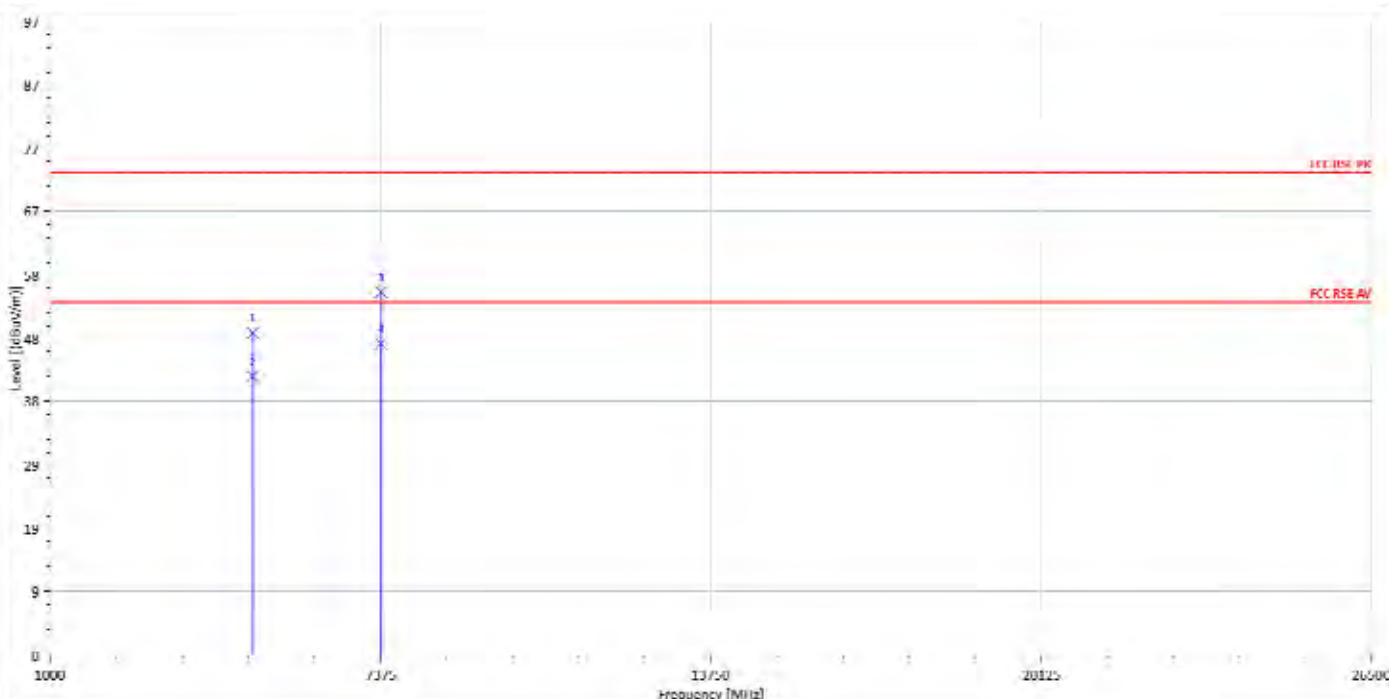
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	42.42	10.66	53.08	74	-20.92
4874.00	H	Average	38.02	10.66	48.68	54	-5.32

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



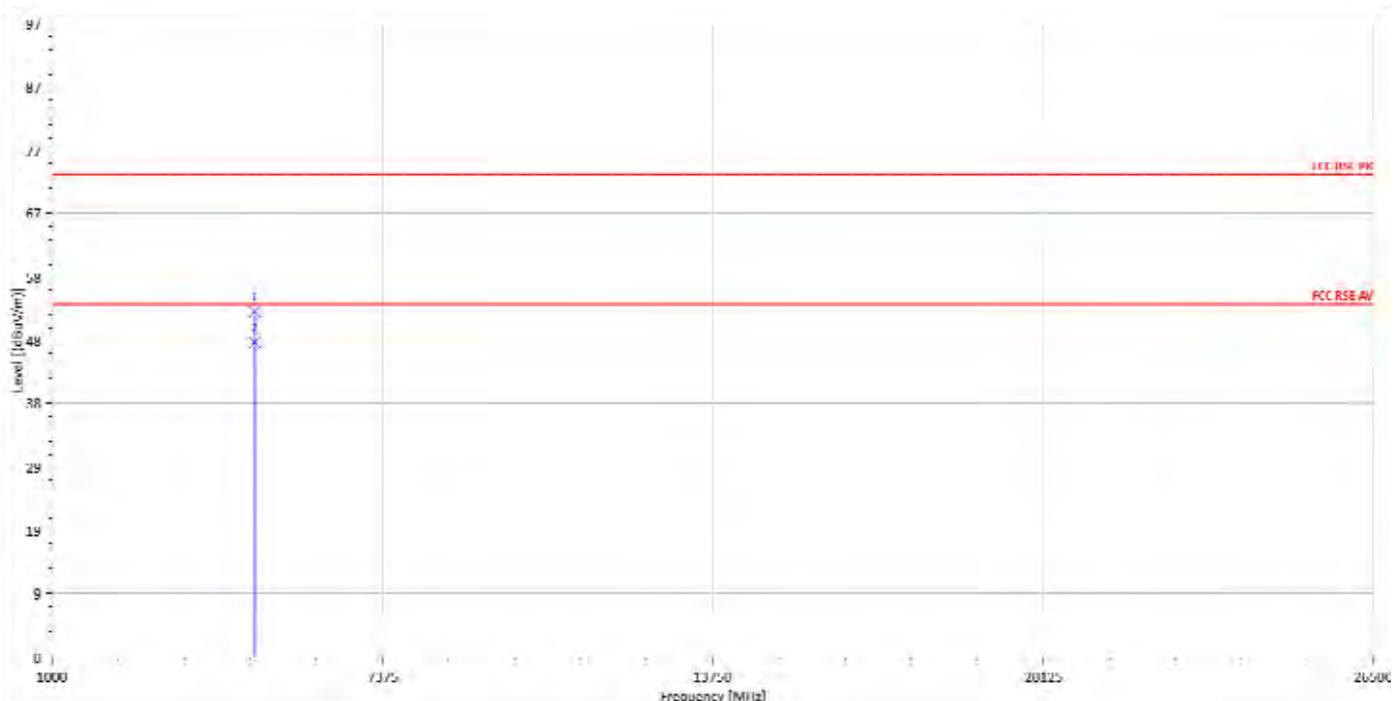
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	38.83	10.57	49.40	74	-24.60
4924.00	H	Average	32.12	10.57	42.69	54	-11.31
7386.00	H	Peak	41.23	14.35	55.58	74	-18.42
7386.00	H	Average	33.38	14.35	47.73	54	-6.27

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Operation Mode : 802.11b Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	42.31	10.57	52.88	74	-21.12
4924.00	H	Average	37.71	10.57	48.28	54	-5.72

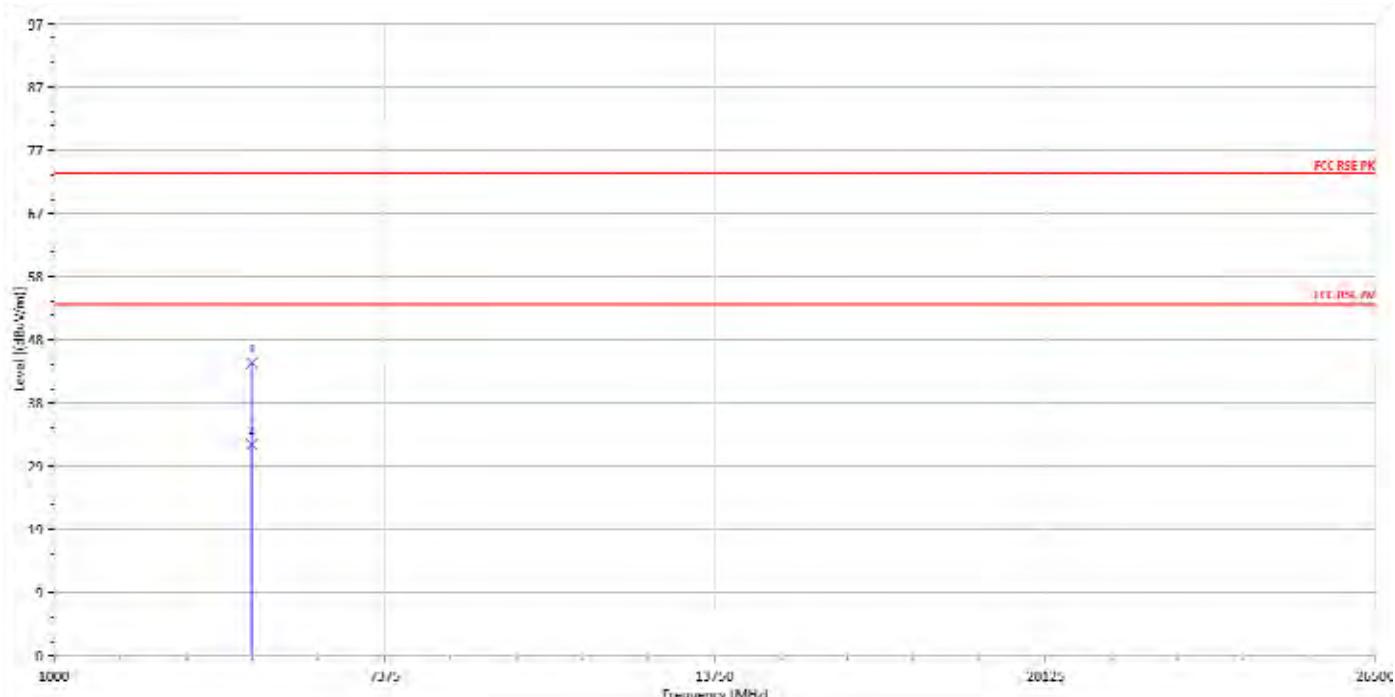
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



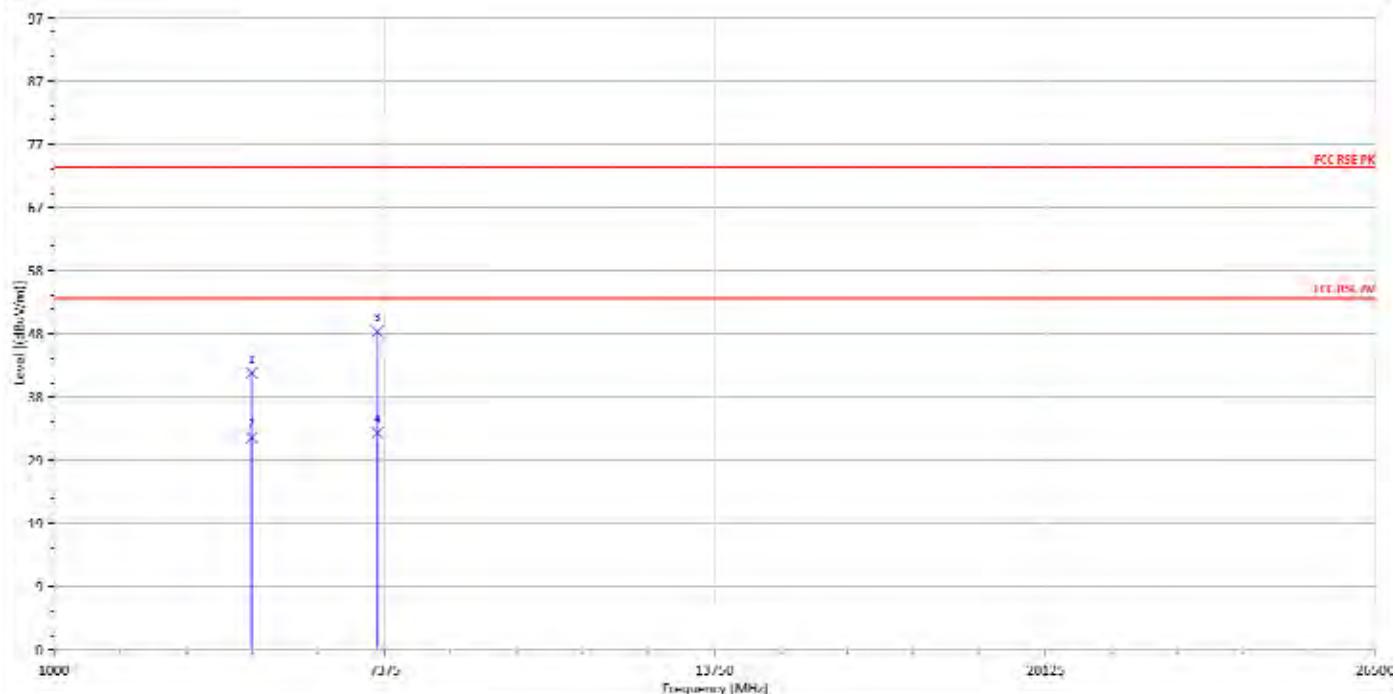
Freq.	Note	Detector Mode	Spectrum Reading	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	Level dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Peak	34.48	10.43	44.90	74	-29.10
4824.00	H	Average	21.96	10.43	32.39	54	-21.61

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



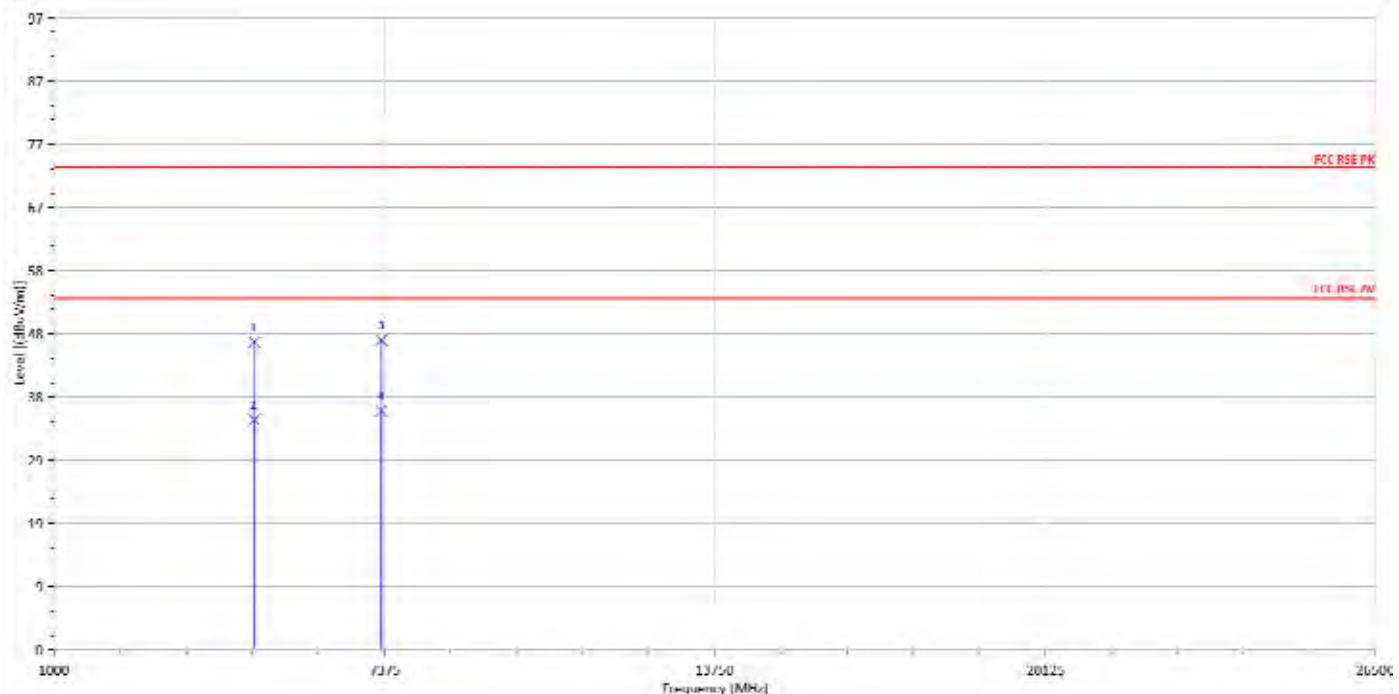
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
4824.00	H	Peak	31.98	10.43	42.40	74	-31.60	
4824.00	H	Average	22.10	10.43	32.53	54	-21.47	
7236.00	H	Peak	34.59	14.24	48.82	74	-25.18	
7236.00	H	Average	19.02	14.24	33.26	54	-20.74	

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



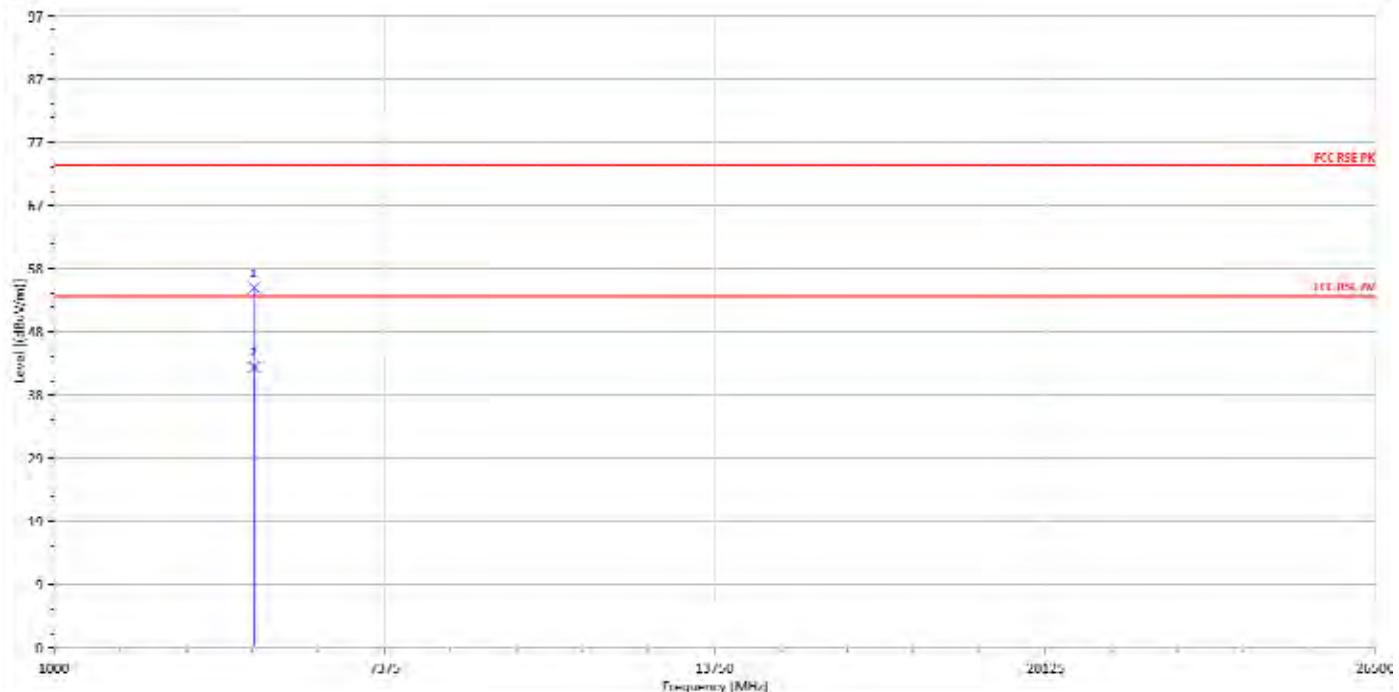
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	36.58	10.66	47.24	74	-26.76
4874.00	H	Average	24.65	10.66	35.31	54	-18.69
7311.00	H	Peak	33.49	13.99	47.48	74	-26.52
7311.00	H	Average	22.69	13.99	36.68	54	-17.32

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



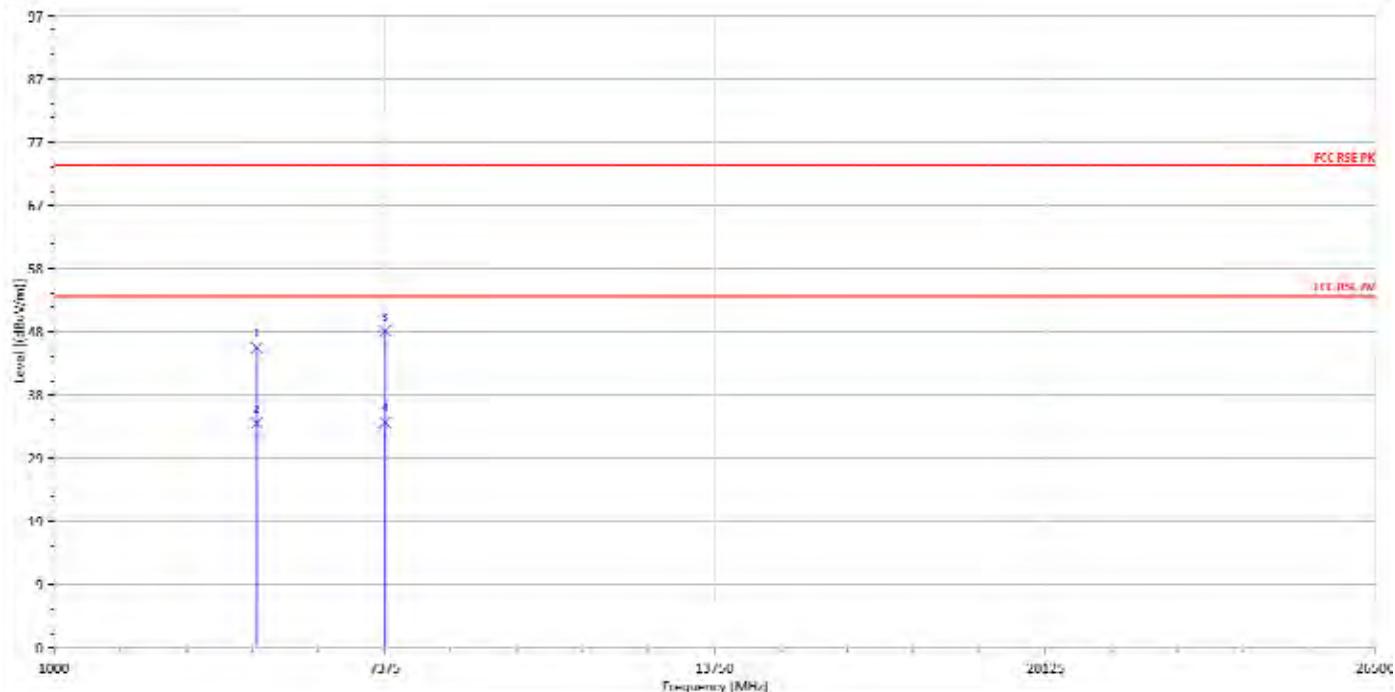
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	44.53	10.66	55.19	74	-18.81
4874.00	H	Average	32.37	10.66	43.03	54	-10.97

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



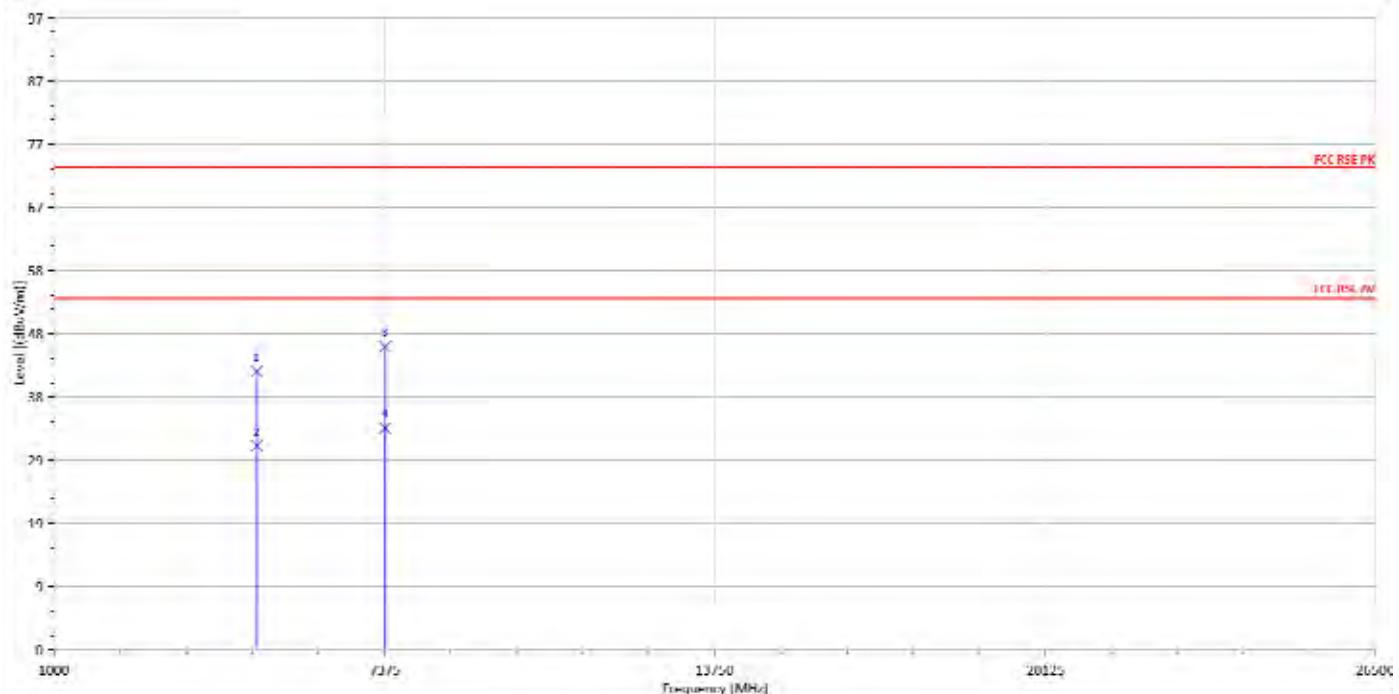
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	35.45	10.57	46.02	74	-27.98
4924.00	H	Average	23.88	10.57	34.45	54	-19.55
7386.00	H	Peak	34.27	14.35	48.63	74	-25.37
7386.00	H	Average	20.23	14.35	34.58	54	-19.42

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Operation Mode : 802.11g Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level		Factor	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Reading	Level dB μ V				
4924.00	H	Peak	32.08	32.08	10.57	42.65	74	-31.35
4924.00	H	Average	20.68	20.68	10.57	31.25	54	-22.75
7386.00	H	Peak	32.13	32.13	14.35	46.48	74	-27.52
7386.00	H	Average	19.63	19.63	14.35	33.98	54	-20.02

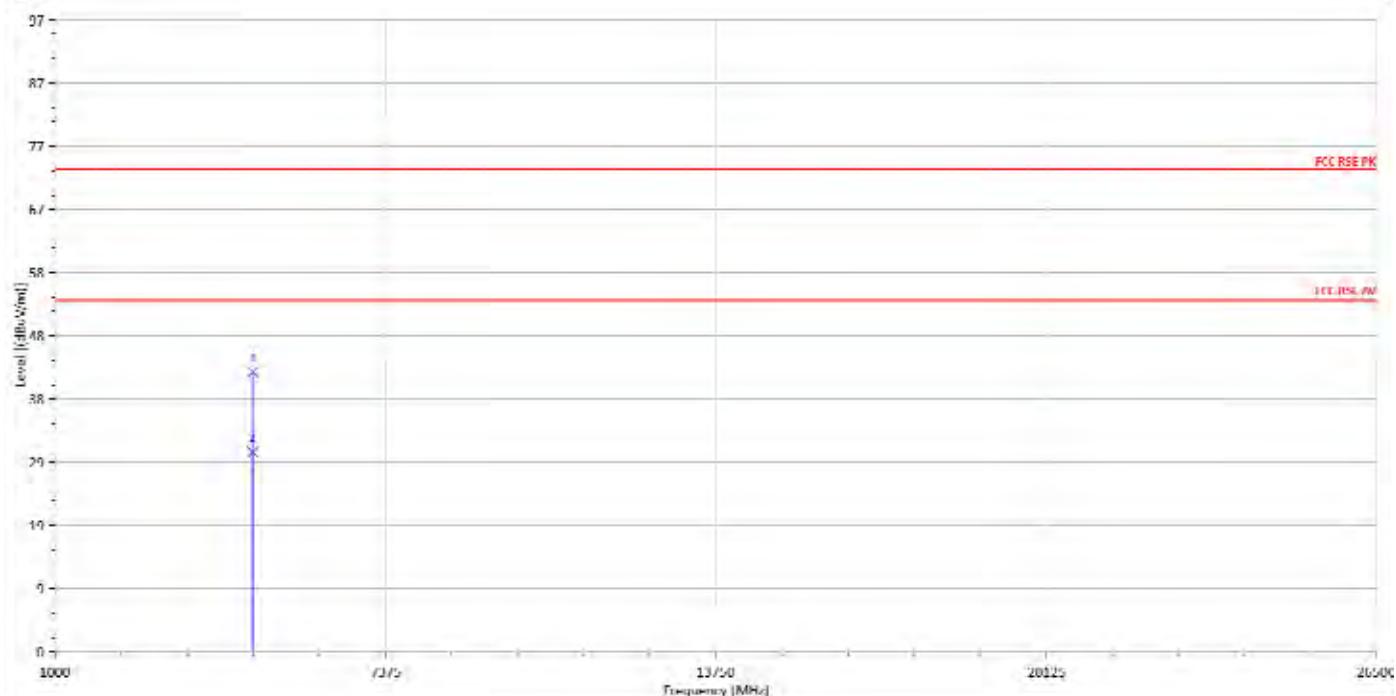
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Radiated Spurious Emission Measurement Result (802.11n_VHT20)

Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



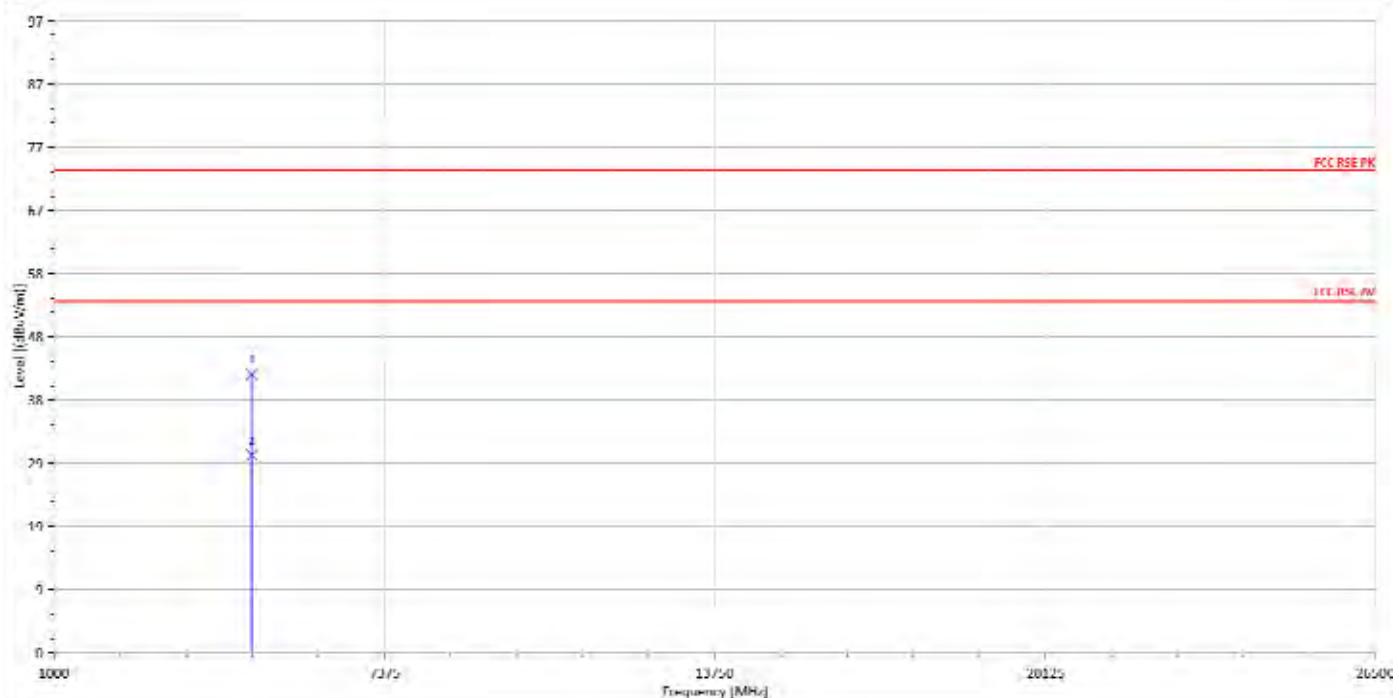
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	H	Peak	32.42	10.43	42.85	74	-31.15
4824.00	H	Average	20.17	10.43	30.60	54	-23.40

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Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



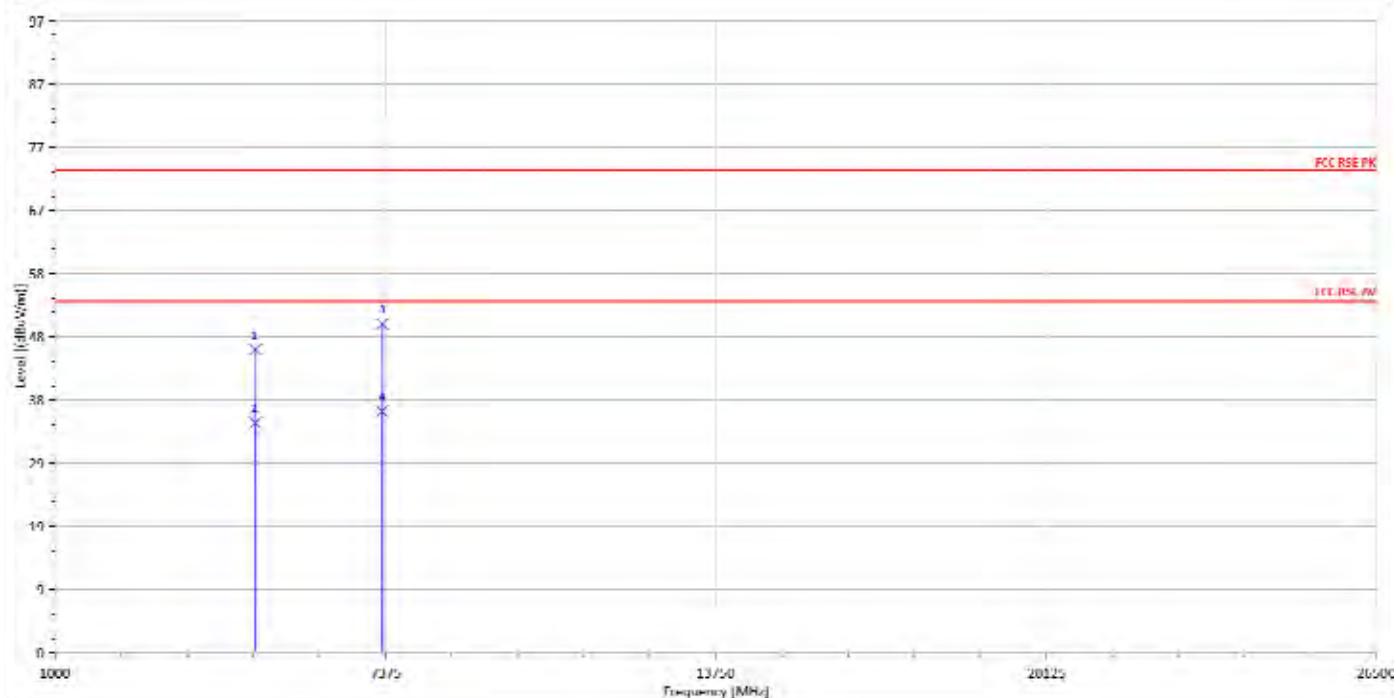
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	32.28	10.43	42.71	74	-31.29
4824.00	H	Average	19.85	10.43	30.28	54	-23.72

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Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



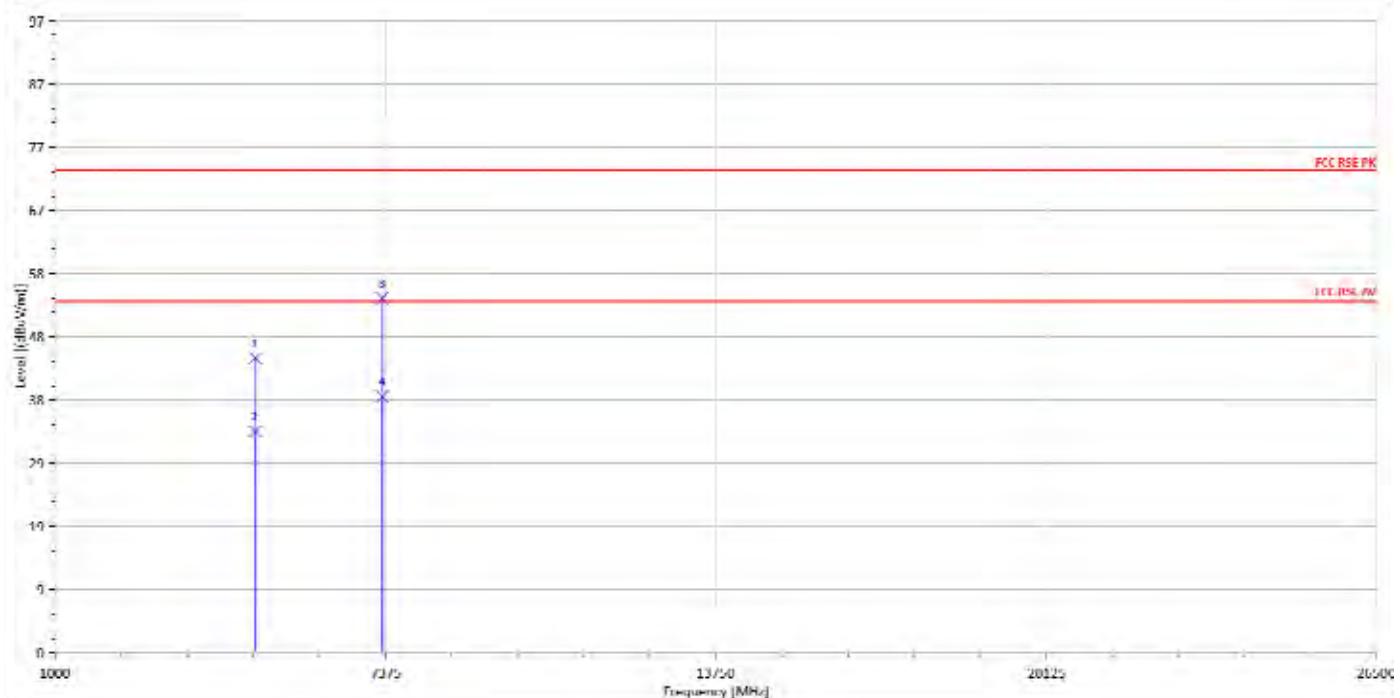
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	35.87	10.66	46.53	74	-27.47
4874.00	H	Average	24.65	10.66	35.31	54	-18.69
7311.00	H	Peak	36.47	13.99	50.46	74	-23.54
7311.00	H	Average	23.09	13.99	37.08	54	-16.92

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Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



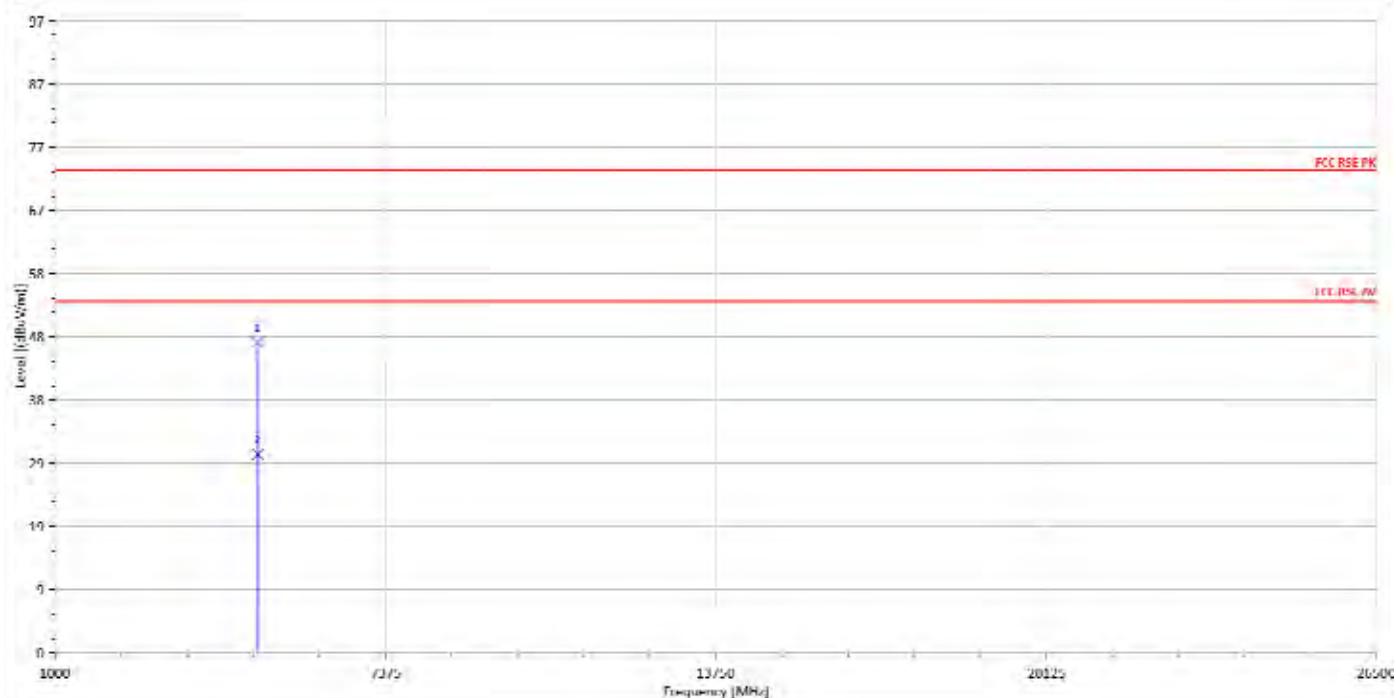
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	34.52	10.66	45.18	74	-28.82
4874.00	H	Average	23.30	10.66	33.96	54	-20.04
7311.00	H	Peak	40.39	13.99	54.38	74	-19.62
7311.00	H	Average	25.35	13.99	39.34	54	-14.66

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Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



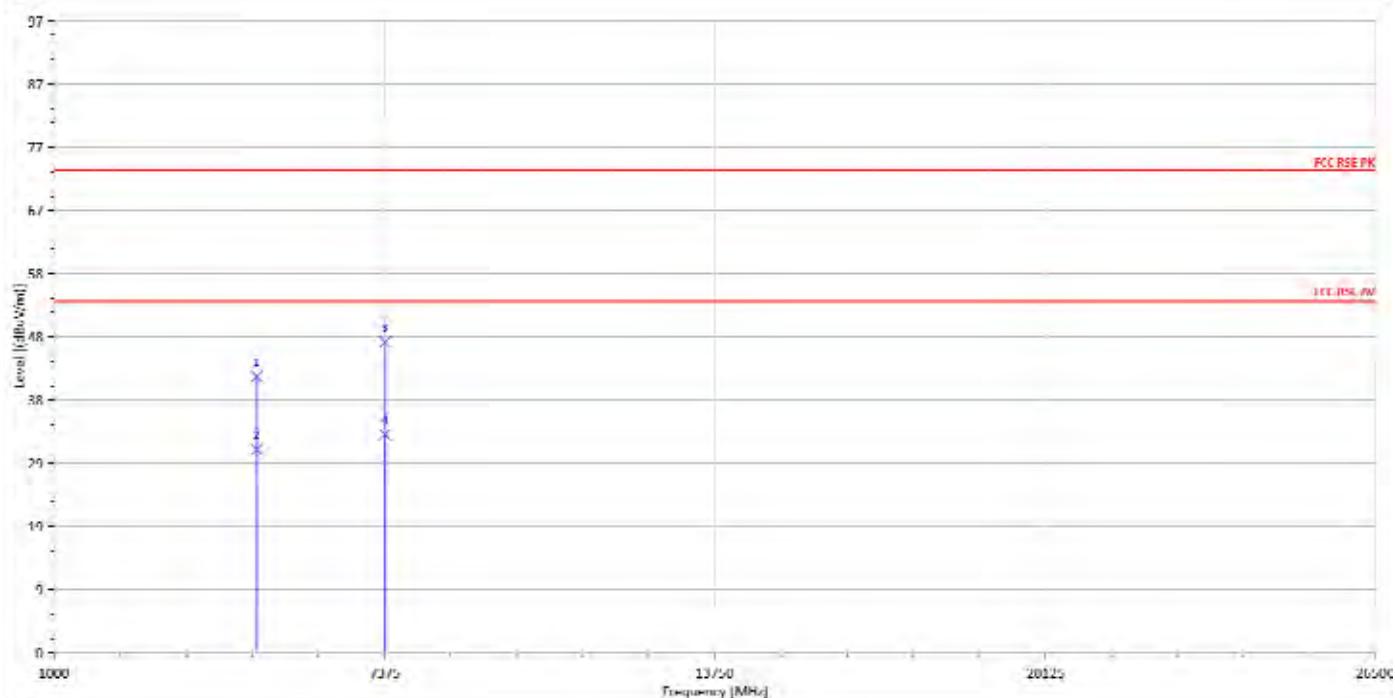
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	37.06	10.57	47.63	74	-26.37
4924.00	H	Average	19.84	10.57	30.41	54	-23.59

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Operation Mode : 802.11n VHT20 Test Date : 2016/3/15
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	31.76	10.57	42.34	74	-31.66
4924.00	H	Average	20.58	10.57	31.15	54	-22.85
7386.00	H	Peak	33.32	14.35	47.68	74	-26.32
7386.00	H	Average	19.11	14.35	33.46	54	-20.54

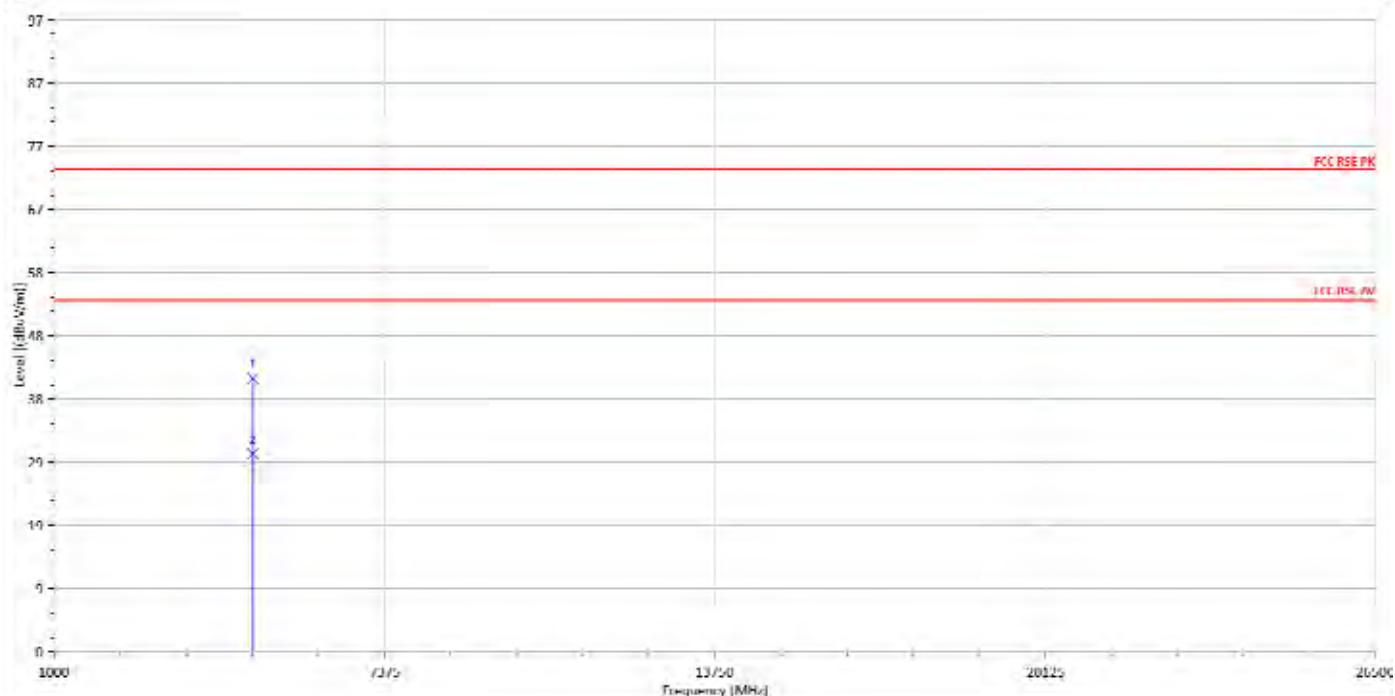
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Radiated Spurious Emission Measurement Result (802.11n_VHT40)

Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



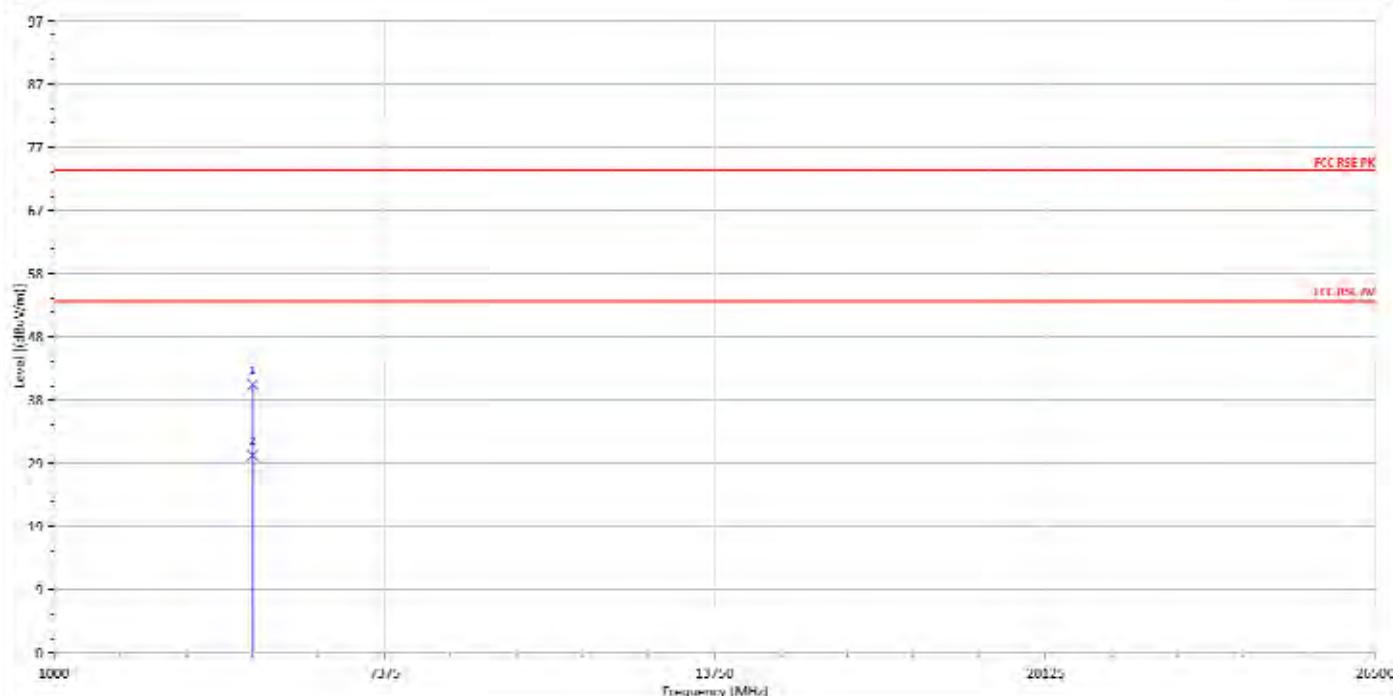
Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	H	Peak	31.50	10.36	41.86	74	-32.14
4844.00	H	Average	19.98	10.36	30.34	54	-23.66

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Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



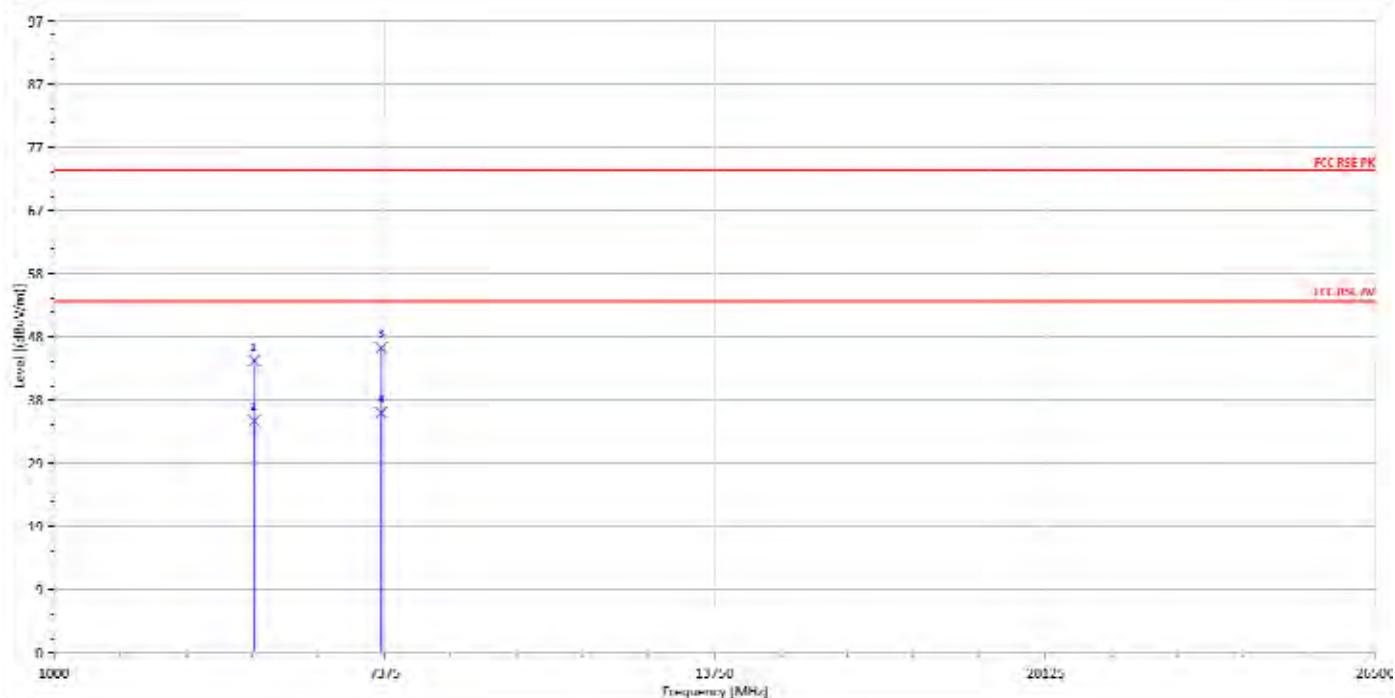
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	H	Peak	30.73	10.36	41.10	74	-32.90
4844.00	H	Average	19.89	10.36	30.25	54	-23.75

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Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



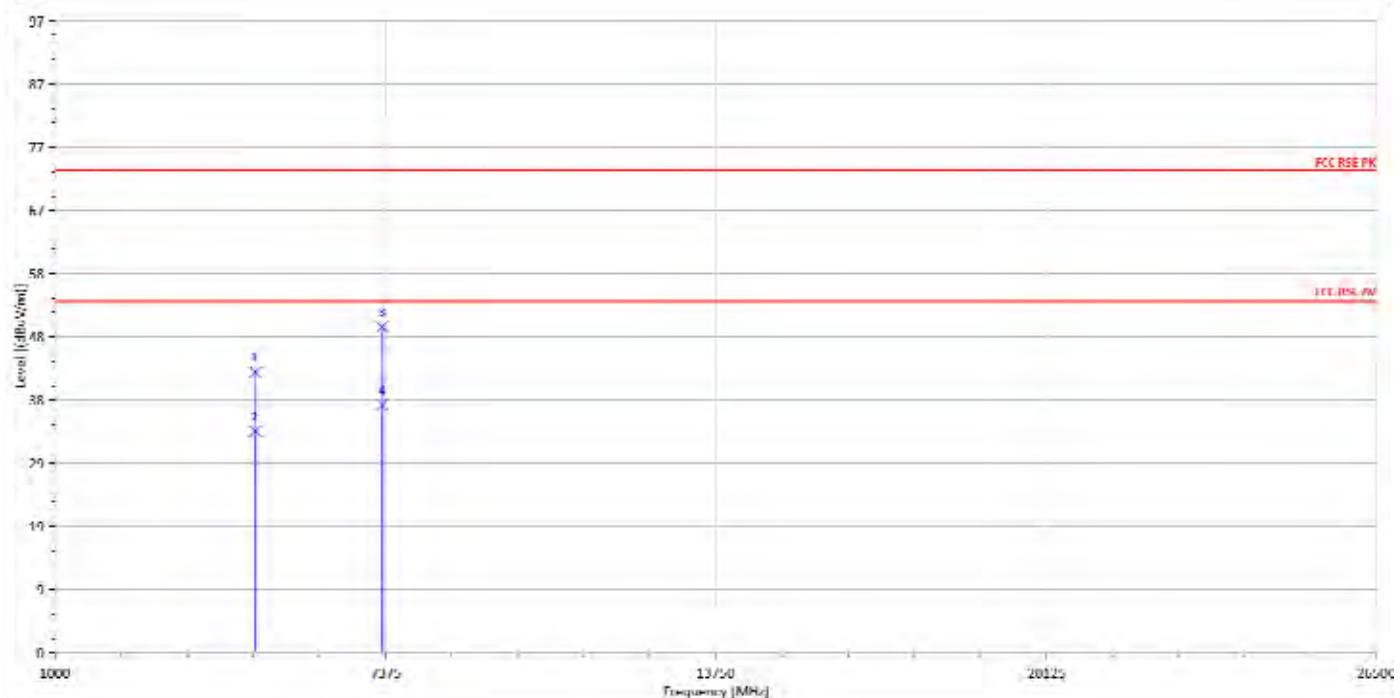
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	34.12	10.66	44.78	74	-29.22
4874.00	H	Average	24.95	10.66	35.61	54	-18.39
7311.00	H	Peak	32.79	13.99	46.78	74	-27.22
7311.00	H	Average	22.86	13.99	36.85	54	-17.15

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Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



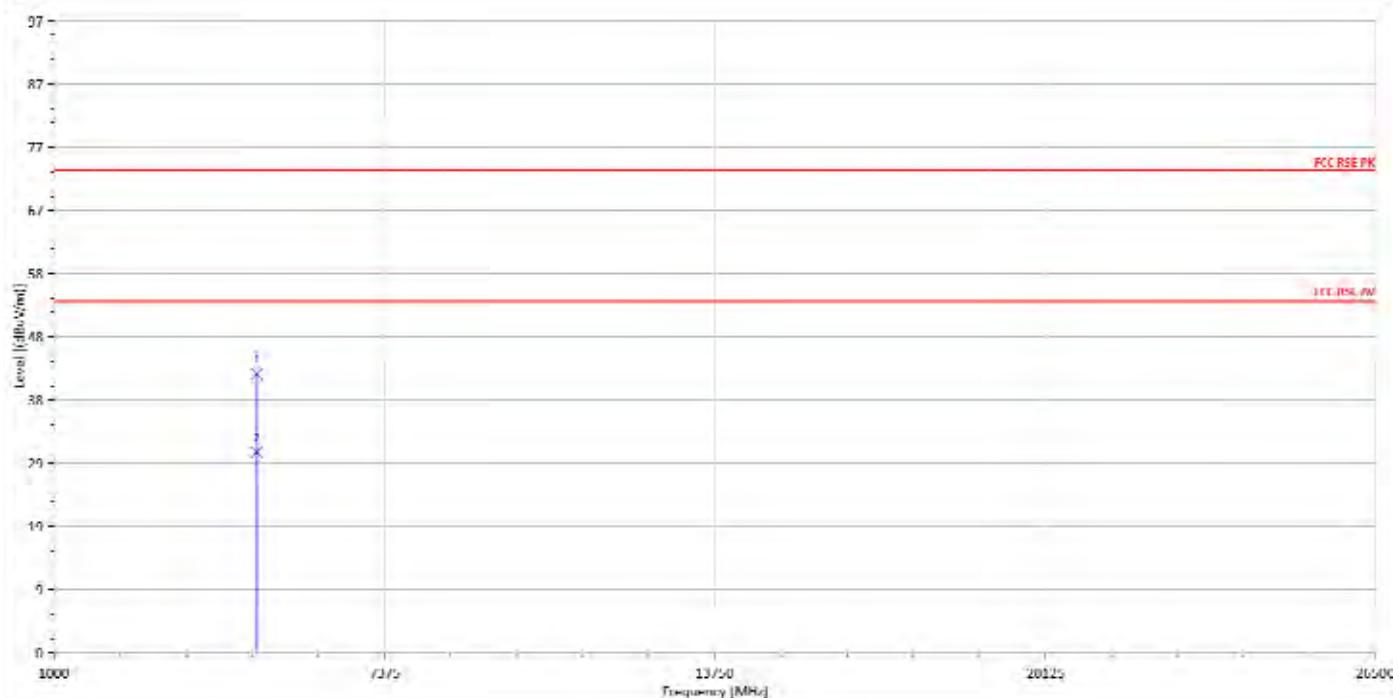
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	32.39	10.66	43.05	74	-30.95
4874.00	S	Average	23.31	10.66	33.97	54	-20.03
7311.00	H	Peak	36.03	13.99	50.02	74	-23.98
7311.00	H	Average	24.10	13.99	38.09	54	-15.91

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Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



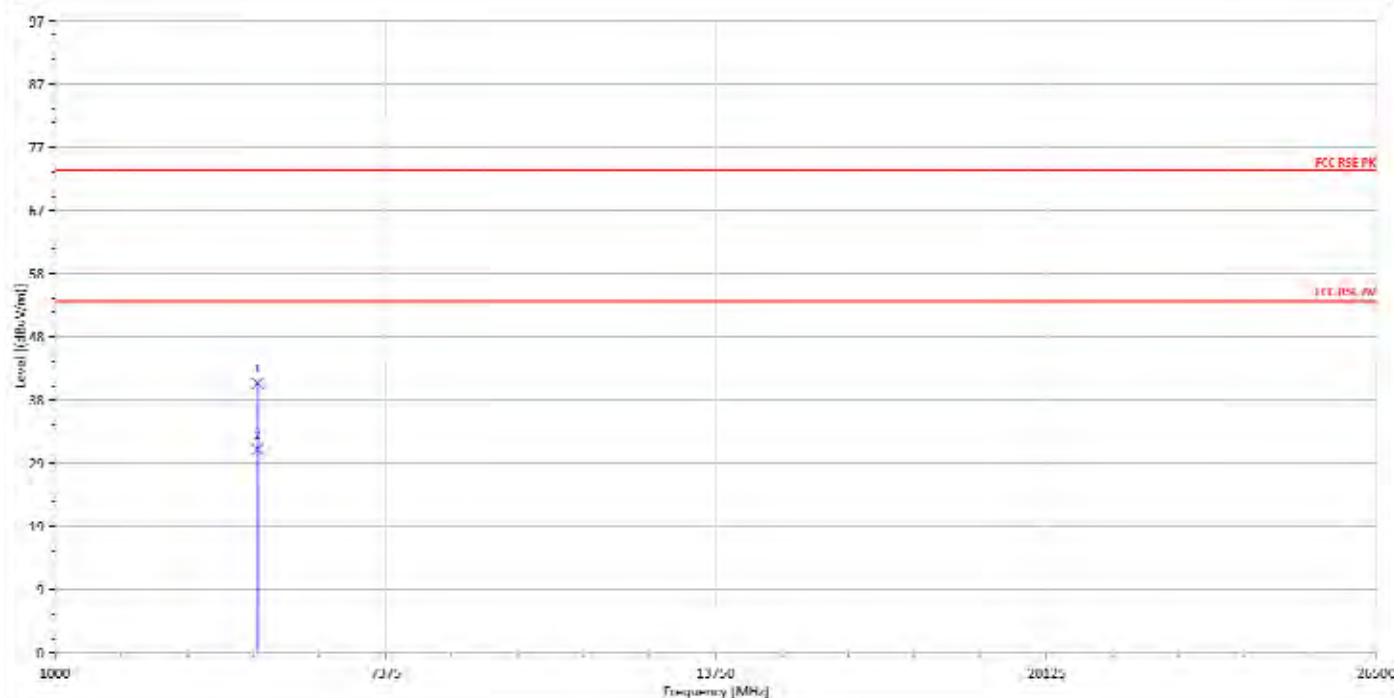
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	32.16	10.57	42.73	74	-31.27
4924.00	H	Average	20.18	10.57	30.75	54	-23.25

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Operation Mode : 802.11n VHT40 Test Date : 2016/3/15
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
4924.00	H	Peak	30.70	10.57	41.28	74	-32.72
4924.00	H	Average	20.59	10.57	31.16	54	-22.84

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12 PEAK POWER SPECTRAL DENSITY

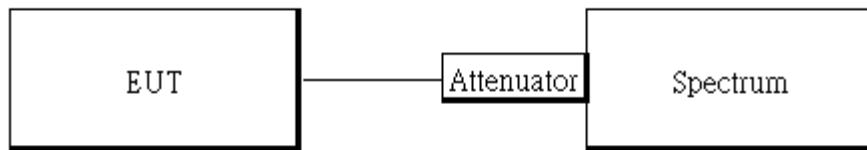
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 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	PASTERNACK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G1 8G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz.
5. Set the VBW = 10 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-6.84	8	PASS
2437	-7.34	8	PASS
2462	-6.52	8	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-10.45	8	PASS
2437	-8.31	8	PASS
2462	-12.13	8	PASS

POWER DENSITY 802.11n VHT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-12.46	8	PASS
2437	-8.03	8	PASS
2462	-11.82	8	PASS

POWER DENSITY 802.11n VHT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-16.17	8	PASS
2437	-11.37	8	PASS
2452	-14.02	8	PASS

*Refer to next page for plots

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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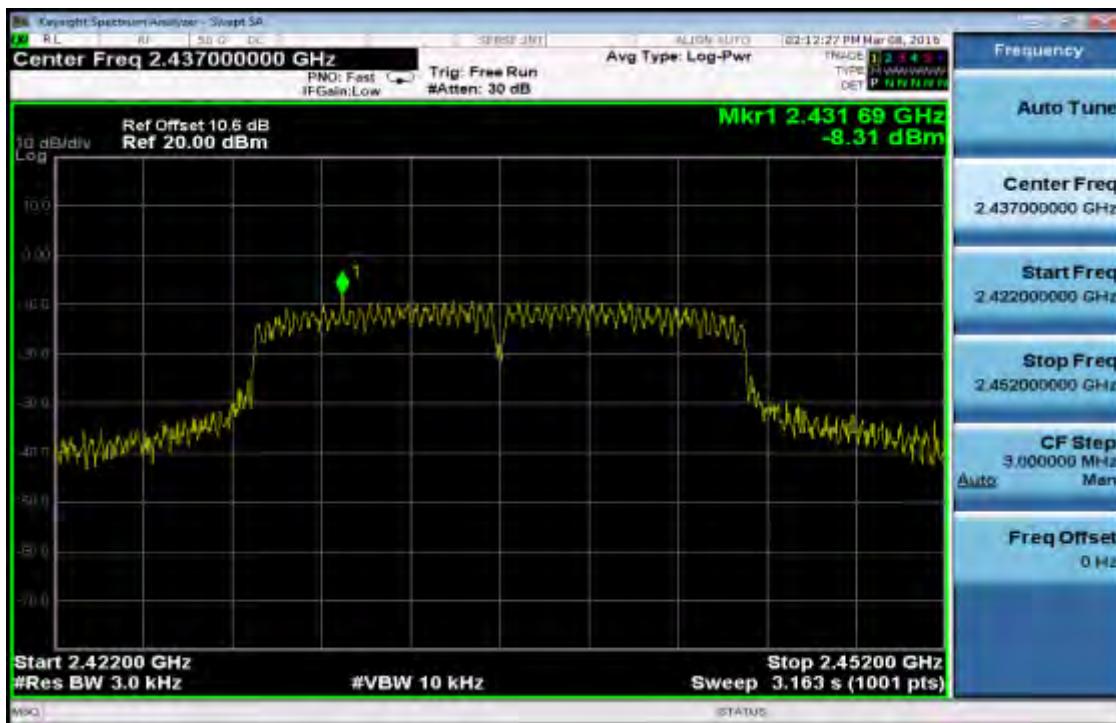
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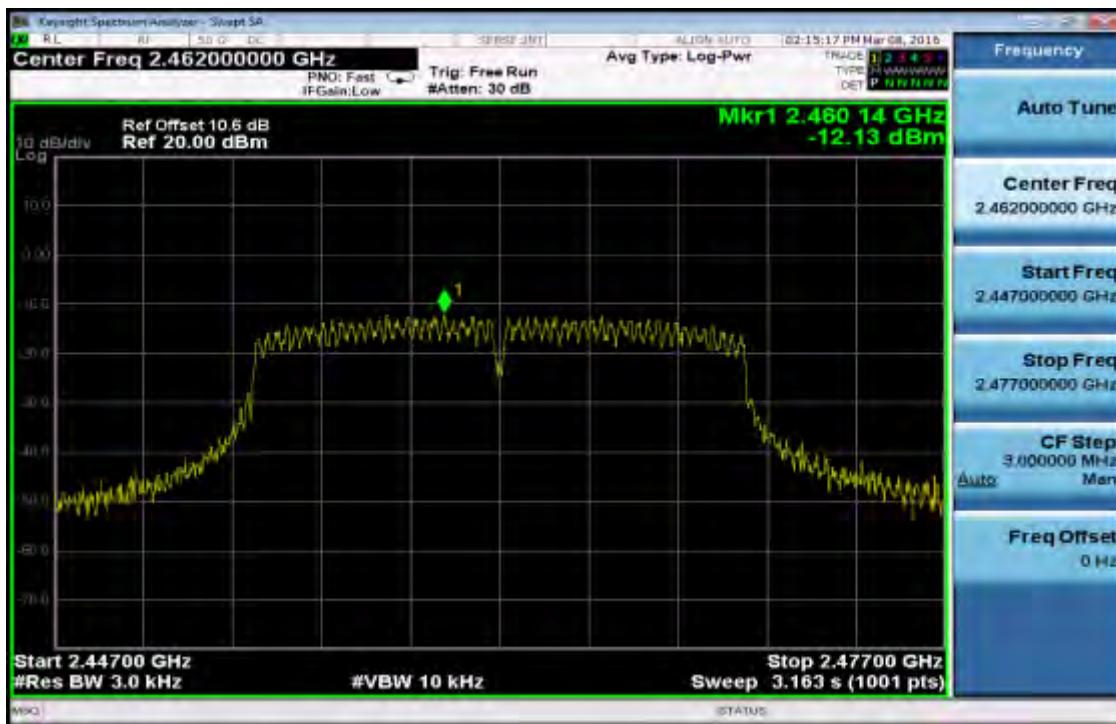
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



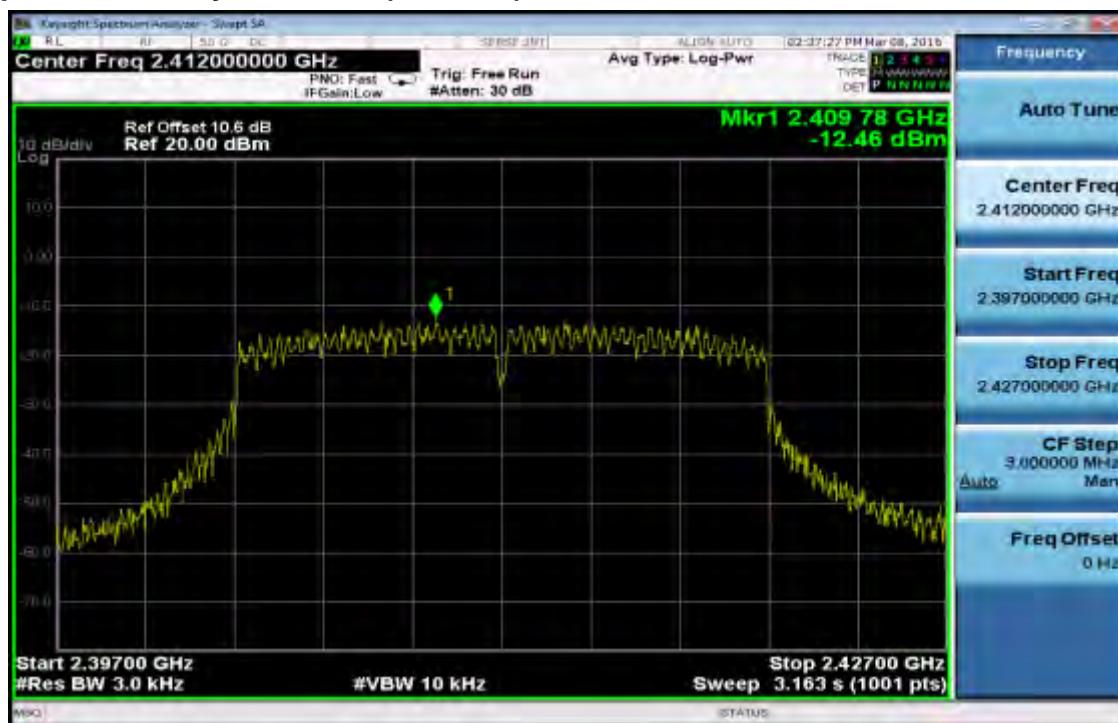
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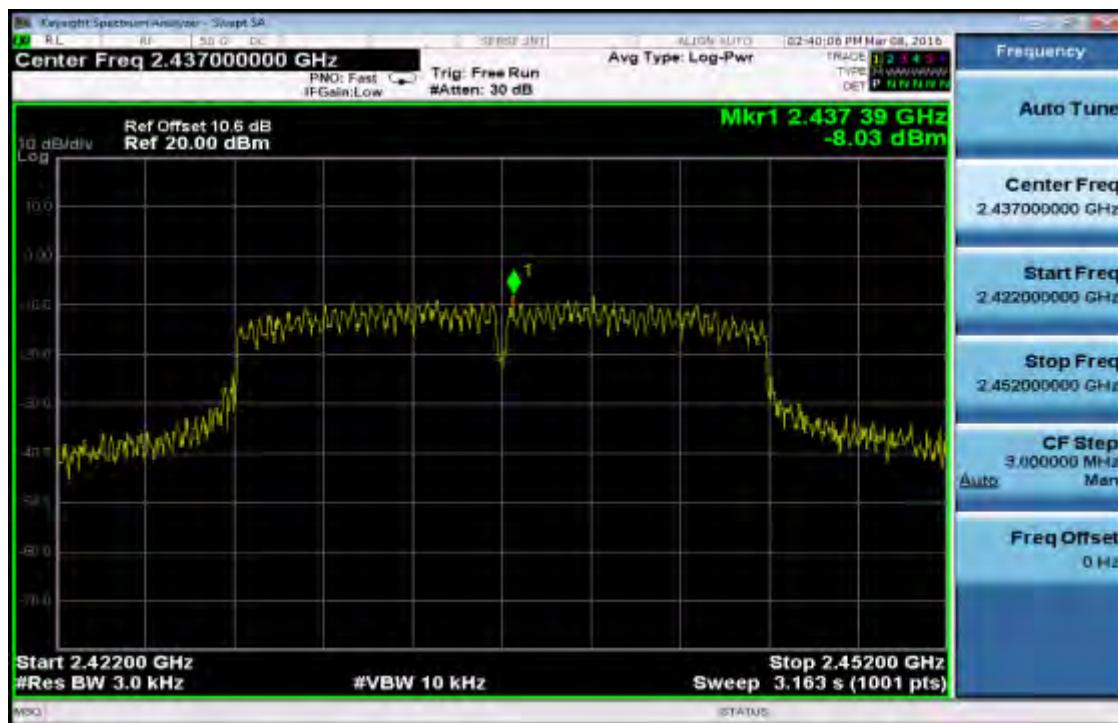
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802.11n VHT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

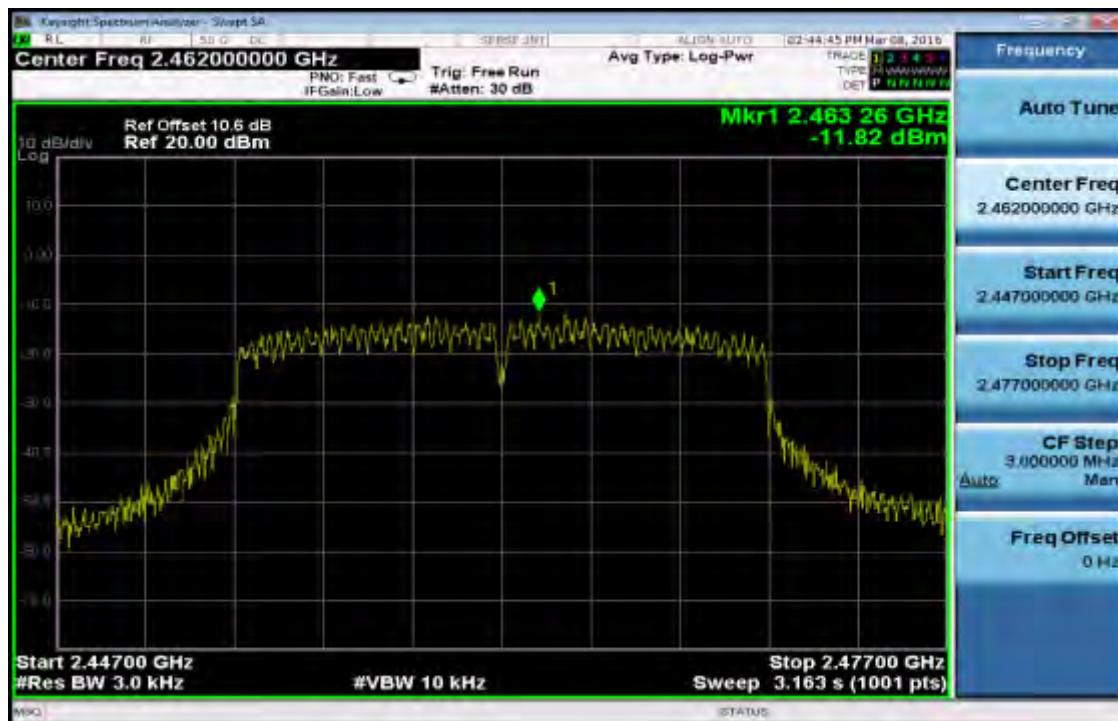


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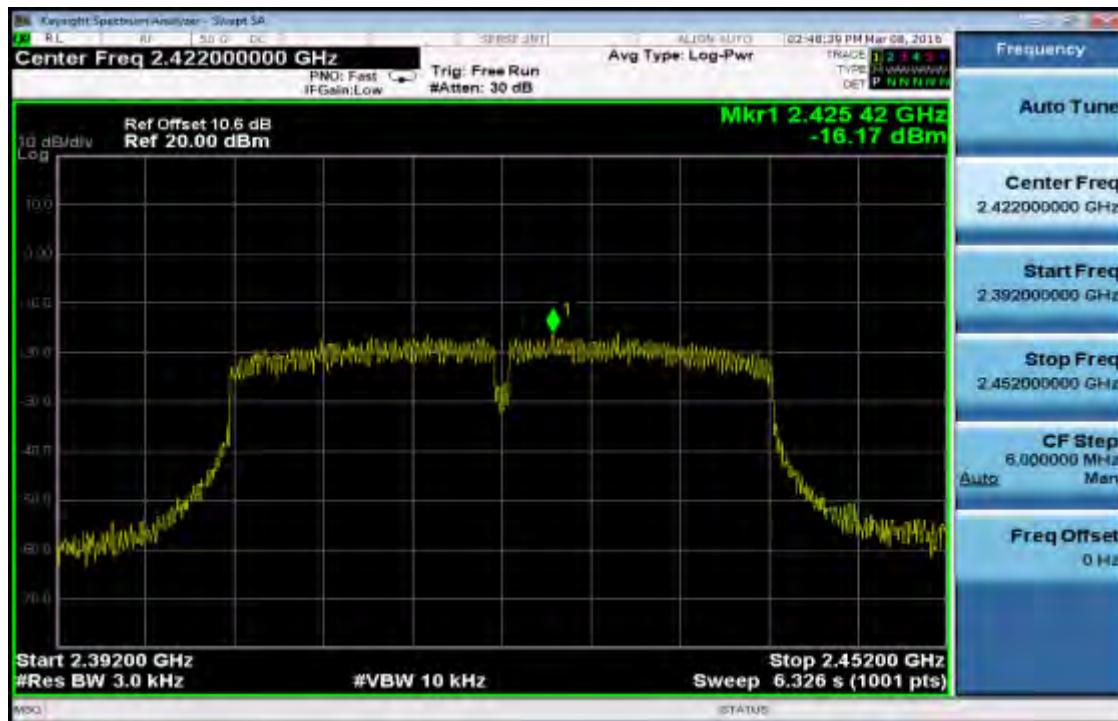
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Power Spectral Density Test Plot (CH-High)



802.11n VHT40

Power Spectral Density Test Plot (CH-Low)



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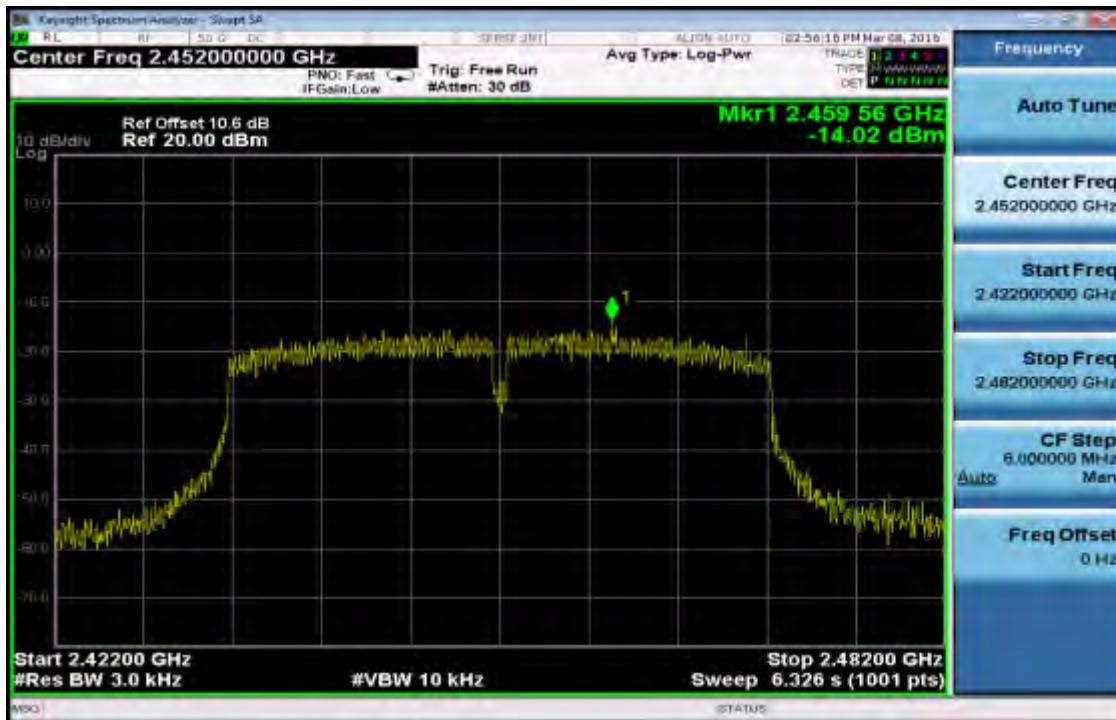
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, 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.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed with permanent attached and no consideration of re-placement.

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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