

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: AC 600 Wireless PCIe Card
Brand Name: Loopcomm
Marketing Name: AC 600 Wireless PCIe Card
Model No.: LP-8014
Model Difference: N/A
FCC ID: VYTL-8014
Report No.: E2/2015/B0010
Issue Date: Nov. 25, 2015
FCC Rule Part: §15.247, Cat: DTS
Prepared for: Loopcomm Technology, Inc.
6F., No.236, Bo'ai St., Shulin Dist., New
Taipei City 23845, Taiwan
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: Loopcomm Technology, Inc.
6F., No.236, Bo'ai St., Shulin Dist., New Taipei City 23845, Taiwan

Product Name: AC 600 Wireless PCIe Card

Brand Name: Loopcomm

Marketing Name: AC 600 Wireless PCIe Card

Model No.: LP-8014

Model Difference: N/A

FCC ID: VYTL-P-8014

Report Number: E2/2015/B0010

Date of test: Nov. 09, 2015 ~ Nov. 18, 2015

Date of EUT Received: Nov. 09, 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 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:

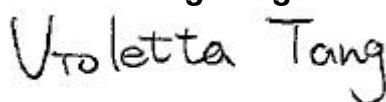


Date:

Nov. 25, 2015

Aken Huang / Engineer

Prepared By:

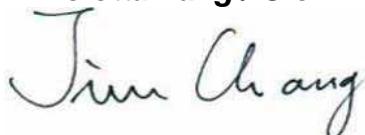


Date:

Nov. 25, 2015

Violetta Tang / Clerk

Approved By:



Date:

Nov. 25, 2015

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/B0010	Rev.00	Initial creation of document	Nov. 25, 2015

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Contents

1 GENERAL INFORMATION	6
1.1 Product description	6
1.2 Test Methodology of Applied Standards	7
1.3 Test Facility	7
1.4 Special Accessories	7
1.5 Equipment Modifications	7
2 SYSTEM TEST CONFIGURATION	8
2.1 EUT Configuration	8
2.2 EUT Exercise	8
2.3 Test Procedure	8
2.4 Measurement Results Explanation Example	8
2.5 Configuration of Tested System	9
3 SUMMARY OF TEST RESULTS	10
4 DESCRIPTION OF TEST MODES	11
4.1 Operated in 2400 ~ 2483.5MHz Band	11
4.2 The Worst Test Modes and Channel Details	12
5 MEASUREMENT UNCERTAINTY	13
6 CONDUCTED EMISSION TEST	14
6.1 Standard Applicable	14
6.2 Measurement Equipment Used	14
6.3 EUT Setup	14
6.4 Test SET-UP (Block Diagram of Configuration)	15
6.5 Measurement Procedure	15
6.6 Measurement Result	15
7 DUTY CYCLE OF TEST SIGNAL	18
7.1 DUTY CYCLE TEST SIGNAL Measurement Result	19
8 PEAK OUTPUT POWER MEASUREMENT	21
8.1 Standard Applicable	21
8.2 Measurement Equipment Used	21
8.3 Test Set-up	21
8.4 Measurement Procedure	21
8.5 Measurement Result	22

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9 6dB BANDWIDTH MEASUREMENT	24
9.1 Standard Applicable	24
9.2 Measurement Equipment Used	24
9.3 Test Set-up	24
9.4 Measurement Procedure	24
9.5 Measurement Result.....	25
10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT	32
10.1 Standard Applicable	32
10.2 Measurement Equipment Used	32
10.3 Test SET-UP	32
10.4 Measurement Result.....	33
11 RADIATED BANEDGE AND SPURIOUS EMISSION MEASUREMENT.....	50
11.1 Standard Applicable	50
11.2 Measurement Equipment Used:	51
11.3 Test SET-UP	52
11.5 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz	54
11.6 Measurement Result.....	54
12 PEAK POWER SPECTRAL DENSITY	93
12.1 Standard Applicable	93
12.2 Measurement Equipment Used	93
12.3 Test Set-up.....	93
12.4 Measurement Procedure	93
12.5 Measurement Result.....	94
13 ANTENNA REQUIREMENT	101
13.1 Standard Applicable	101
13.2 Antenna Connected Construction	101

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	AC 600 Wireless PCIe Card
Brand Name:	Loopcomm
Marketing Name:	AC 600 Wireless PCIe Card
Model No.:	LP-8014
Model Difference:	N/A
Product SW/HW version:	1.0 / 1.0
Radio SW/HW version:	N/A / N/A
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	3.3Vdc

WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Peak)	Modulation Technology
11b/g	2412-2462	11	b: 17.44dBm g: 24.02dBm	DSSS, OFDM
11n	HT20 2412-2462	11	23.20dBm	OFDM
11n	HT40 2422-2452	7	22.62dBm	OFDM
Antenna Designation:		Dipole Antenna, Gain: 3.34dBi		
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_20MHz: up to 72.2Mbps 802.11 n_40MHz: up to 135Mbps		

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r03

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.

1.3 Test Facility

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

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.4 Special Accessories

There are no special accessories used while test was conducted.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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. *Offset = RF cable loss (dB)+ attenuation factor(dB)=10.6(dB)

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission

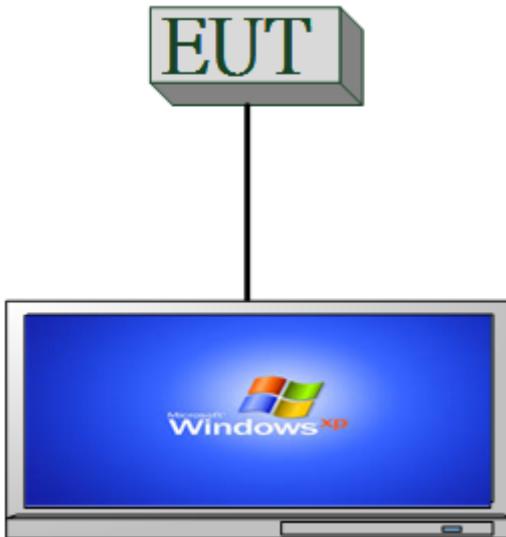


Fig. 2-2 AC Power Line Conducted Emission

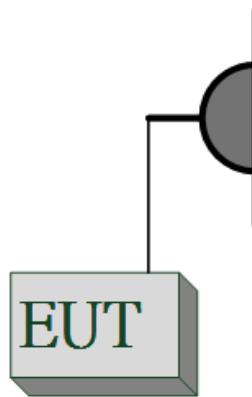


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	PC	Lenovo	6138-C16	R8VVFEG	N/A	N/A

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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 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

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

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		

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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 and receiving 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	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	MAIN
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 (HT20)	1 to 11	1, 6, 11	OFDM	MCS0	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	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 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case H 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 (HT20)	1 to 11	1, 6, 11	OFDM	MCS0	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS0	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 7	100950	12/12/2014	12/11/2015
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	01/06/2015	01/07/2016
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 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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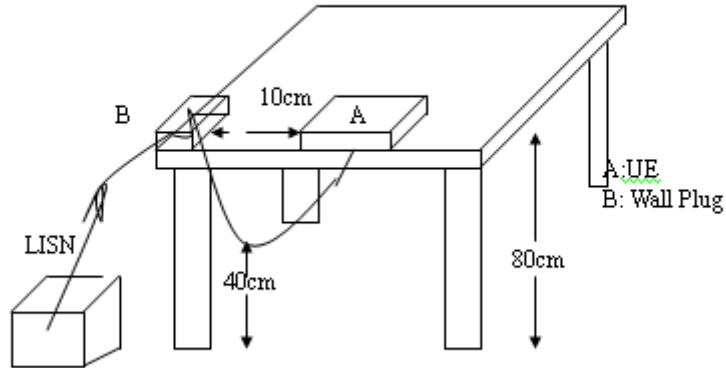
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6.4 Test SET-UP (Block Diagram of Configuration)



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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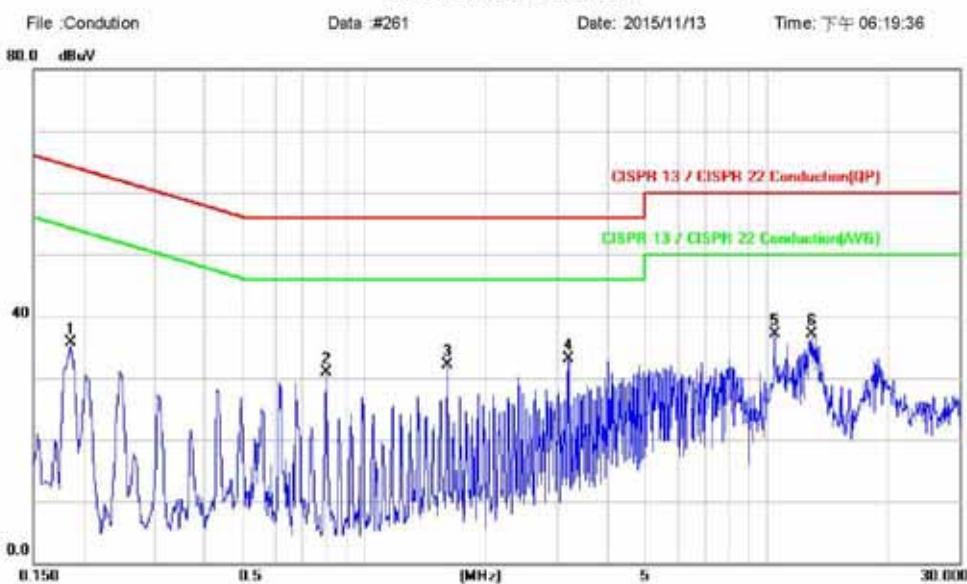
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode			Test Date:	Nov. 13, 2015
Temperature:	22	Humidity:	72 %	Test By:	Aken
				Phase:	L1

Site : Conduction Room Phase: **L1** Temperature: 22 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 72 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1860	35.63	0.07	35.70	64.21	-28.51	peak	
2		0.8020	30.65	0.34	30.99	56.00	-25.01	peak	
3		1.6060	31.68	0.51	32.19	56.00	-23.81	peak	
4		3.2100	32.51	0.60	33.11	56.00	-22.89	peak	
5 *		10.4340	36.42	0.70	37.12	60.00	-22.88	peak	
6		12.9580	36.44	0.66	37.10	60.00	-22.90	peak	

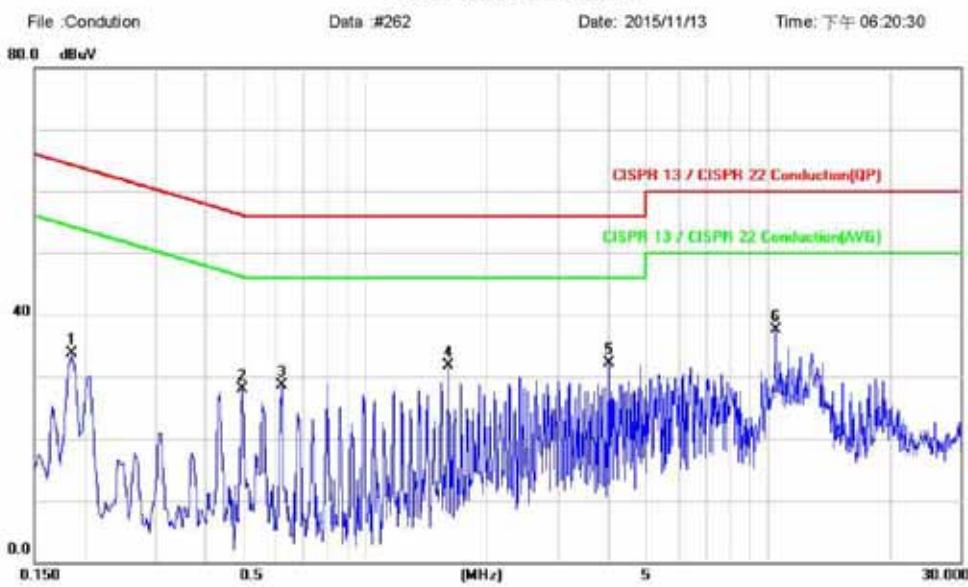
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Site : Conduction Room
 Limit: CISPR 13 / CISPR 22 Conduction(QP)
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1		0.1860	33.61	0.13	33.74	64.21	-30.47	peak	
2		0.4940	27.58	0.28	27.86	56.10	-28.24	peak	
3		0.6180	28.30	0.30	28.60	56.00	-27.40	peak	
4		1.6060	31.24	0.56	31.80	56.00	-24.20	peak	
5		4.0140	31.41	0.66	32.07	56.00	-23.93	peak	
6	*	10.4340	36.71	0.74	37.45	60.00	-22.55	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	100.00	0.00
802.11g	100.00	0.00
802.11n_20	100.00	0.00
802.11n_40	100.00	0.00

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

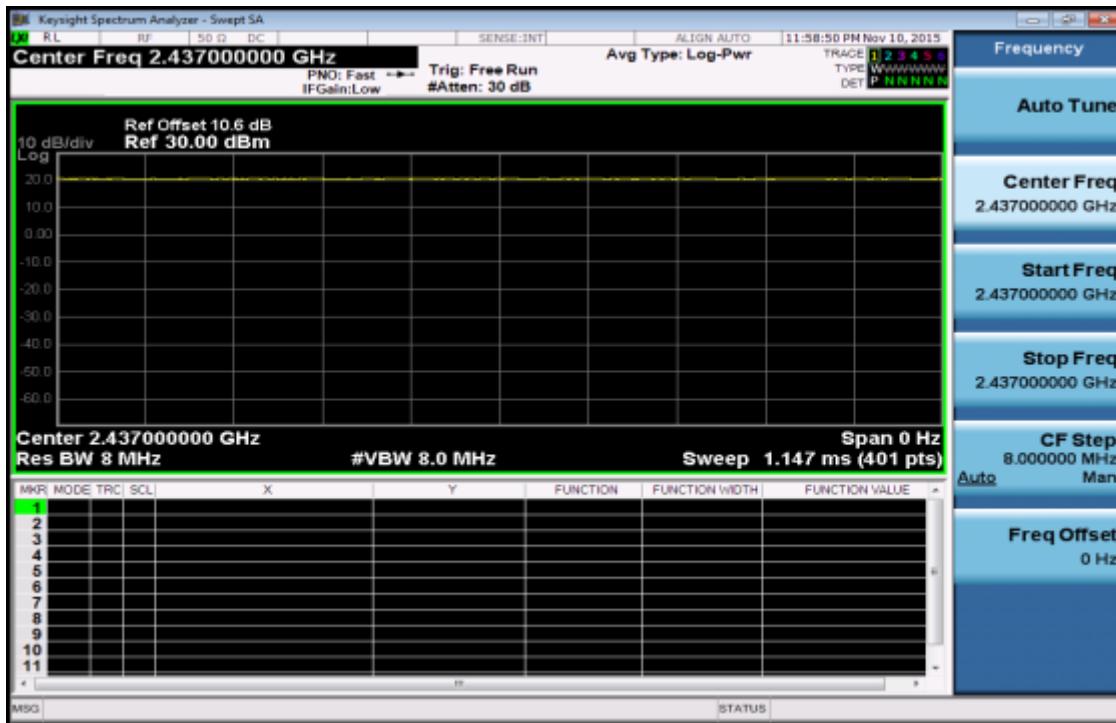
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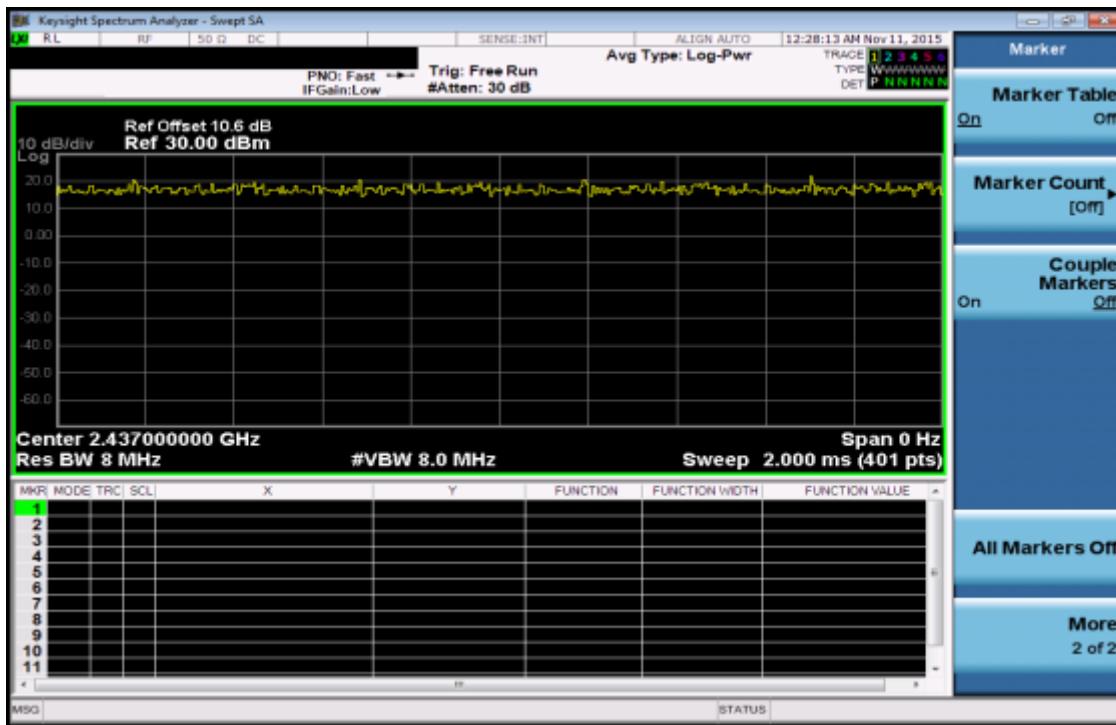
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g

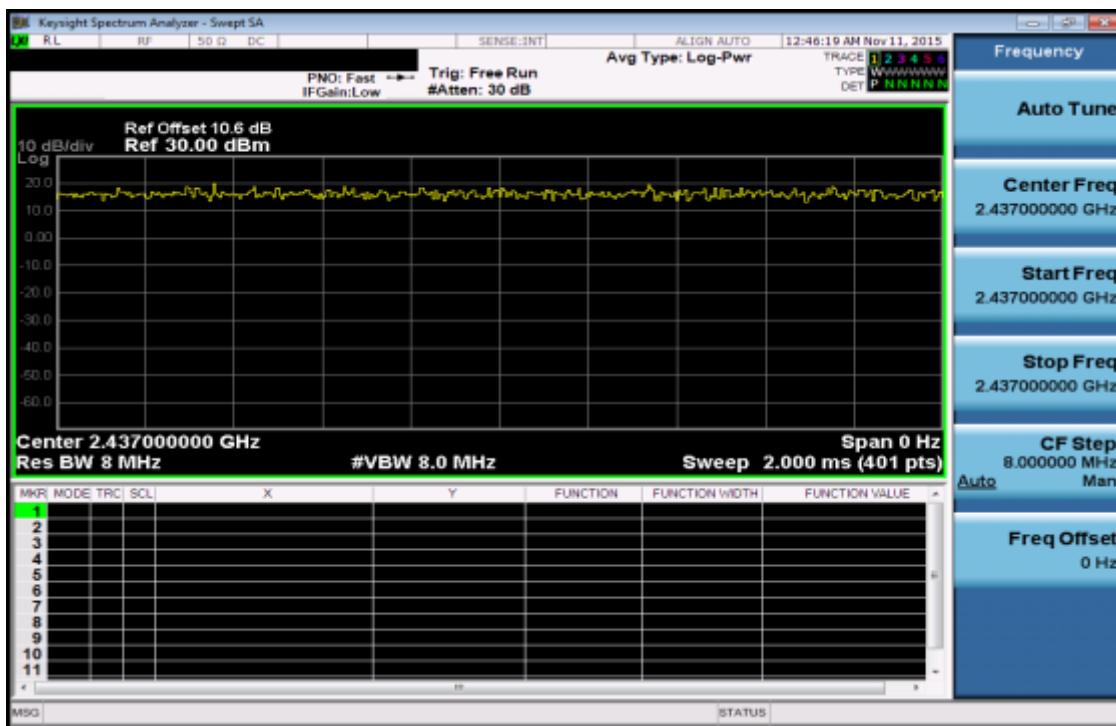


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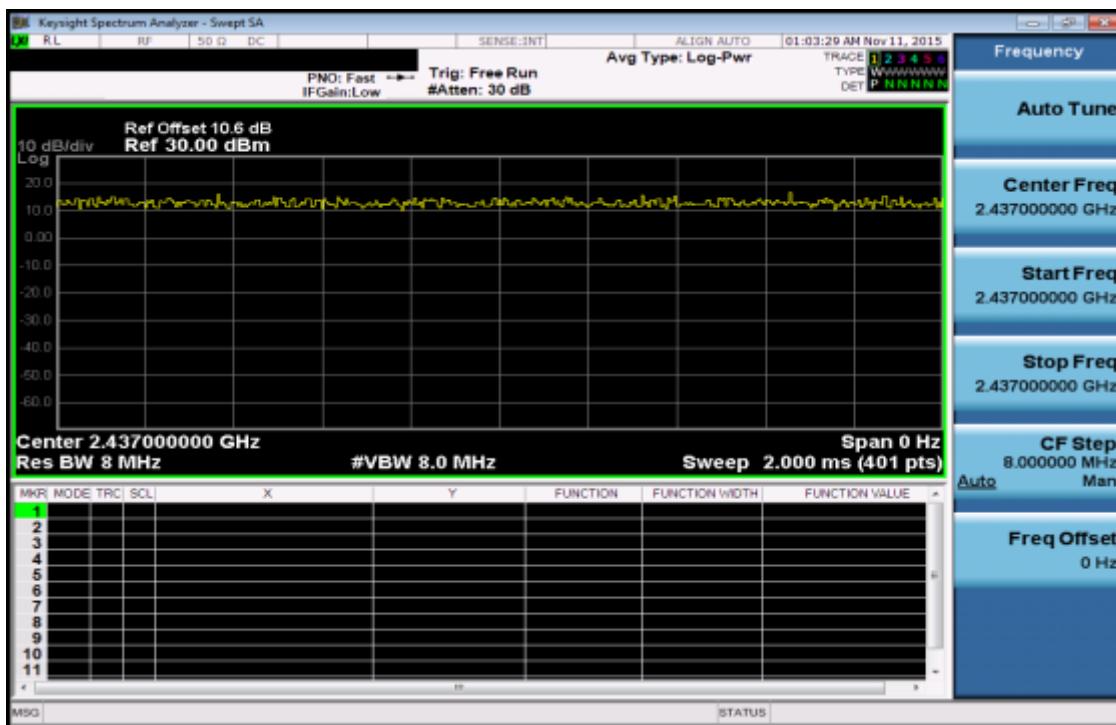
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802.11 n_20 MHz



802.11 n_40 MHz



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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.

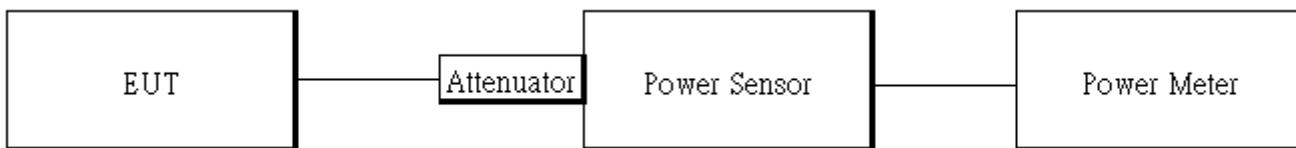
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

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 V03r03.
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.
5. Repeat above procedures until all frequency of interest measured was complete.

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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	17.44	55.46	1 Watt = 30.00 dBm	PASS
6	2437	1	17.44	55.46	1 Watt = 30.00 dBm	PASS
11	2462	1	17.37	54.58	1 Watt = 30.00 dBm	PASS

802.11b Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power	Avg. Output Power	Limit	RESULT
1	2412	1	14.98	31.48	1 Watt = 30.00 dBm	PASS
6	2437	1	14.97	31.41	1 Watt = 30.00 dBm	PASS
11	2462	1	14.95	31.26	1 Watt = 30.00 dBm	PASS

802.11g Main

CH	Frequency (MHz)	Data Rate	Peak Output Power	Peak Output Power	Limit	RESULT
1	2412	6	24.02	252.35	1 Watt = 30.00 dBm	PASS
6	2437	6	23.98	250.03	1 Watt = 30.00 dBm	PASS
11	2462	6	23.35	216.27	1 Watt = 30.00 dBm	PASS

802.11g Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power	Avg. Output Power	Limit	RESULT
1	2412	6	14.98	31.48	1 Watt = 30.00 dBm	PASS
6	2437	6	14.9	30.90	1 Watt = 30.00 dBm	PASS
11	2462	6	13.98	25.00	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	23.2	208.93	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	22.52	178.65	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	22.43	174.98	1 Watt = 30.00 dBm	PASS

802.11n_20M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power	Avg. Output Power	Limit	RESULT
1	2412	MCS0	13.85	24.27	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.73	23.60	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	12.92	19.59	1 Watt = 30.00 dBm	PASS

802.11n_40M Main

CH	Frequency (MHz)	Data Rate	Peak Output Power	Peak Output Power	Limit	RESULT
1	2422	MCS0	22.4	173.78	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	22.62	182.81	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	22.45	175.79	1 Watt = 30.00 dBm	PASS

802.11n_40M Main

CH	Frequency (MHz)	Data Rate	Avg. Output Power	Avg. Output Power	Limit	RESULT
1	2422	MCS0	13.23	21.04	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	13.5	22.39	1 Watt = 30.00 dBm	PASS
11	2452	MCS0	13.4	21.88	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 BANDWIDTH MEASUREMENT

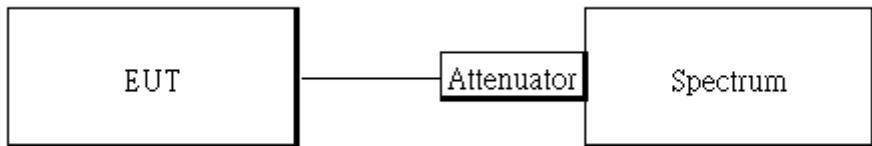
9.1 Standard Applicable

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	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

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 V03r03.
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.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

802.11b

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	10100	> 500	PASS
2437	10150	> 500	PASS
2462	10110	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16460	> 500	PASS
2437	16470	> 500	PASS
2462	16440	> 500	PASS

802.11n_20M

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	17650	> 500	PASS
2437	17690	> 500	PASS
2462	17670	> 500	PASS

802.11n_40M

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	36270	> 500	PASS
2437	36280	> 500	PASS
2452	36250	> 500	PASS

*Refer to next page for plots

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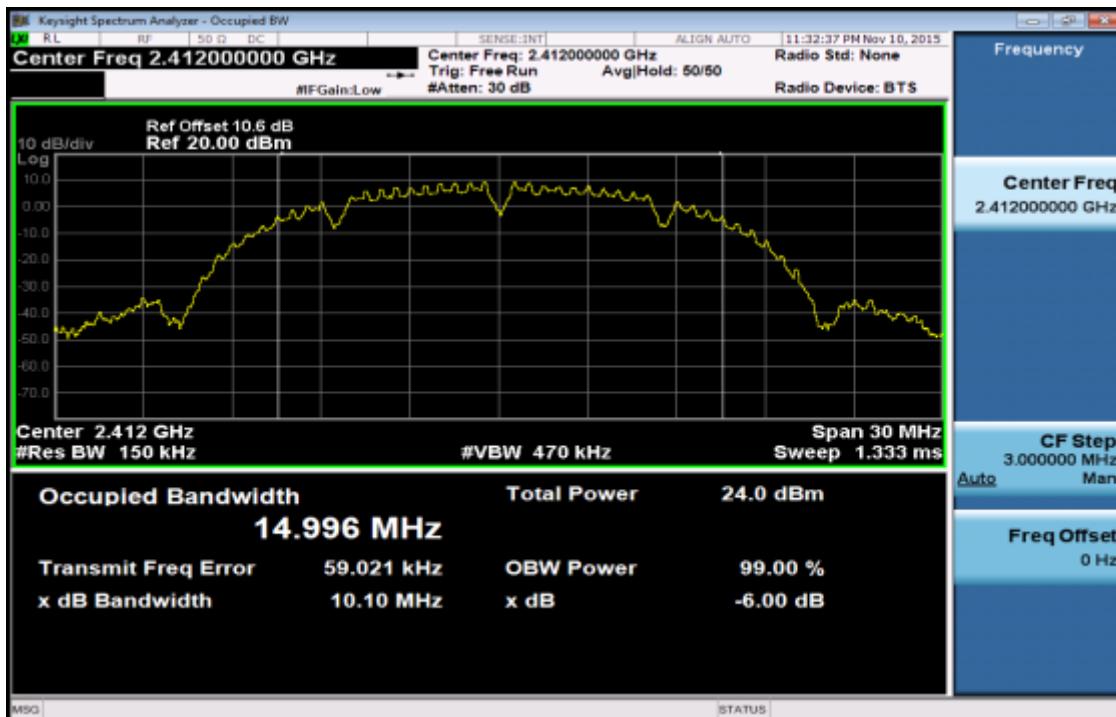
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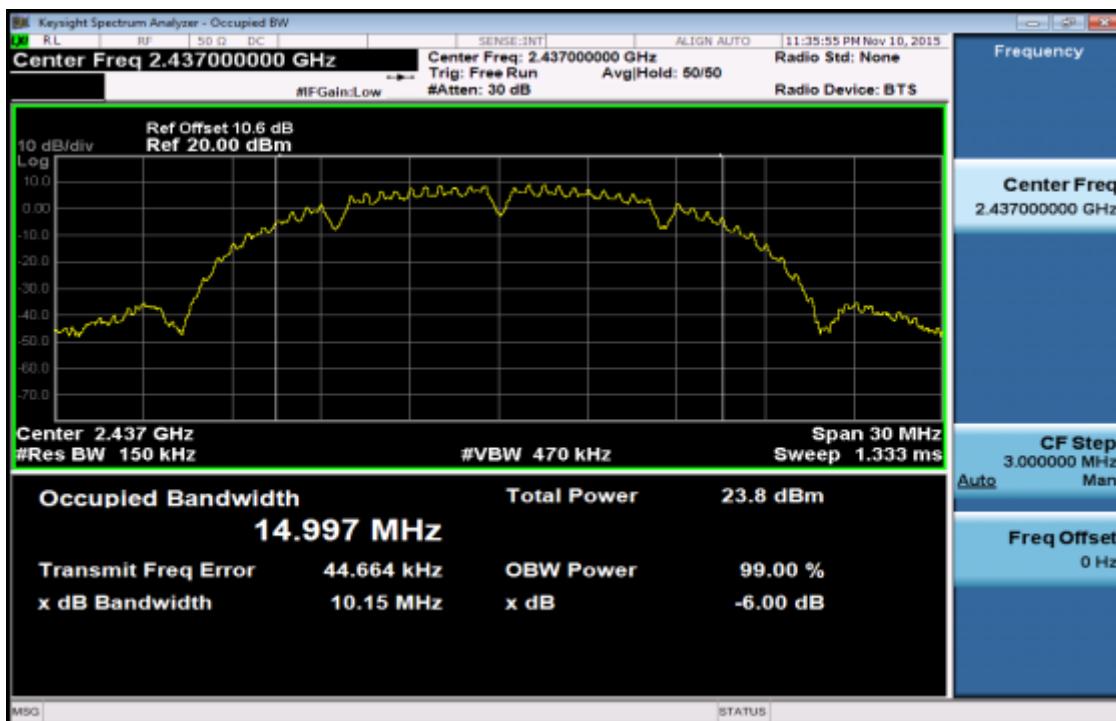
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



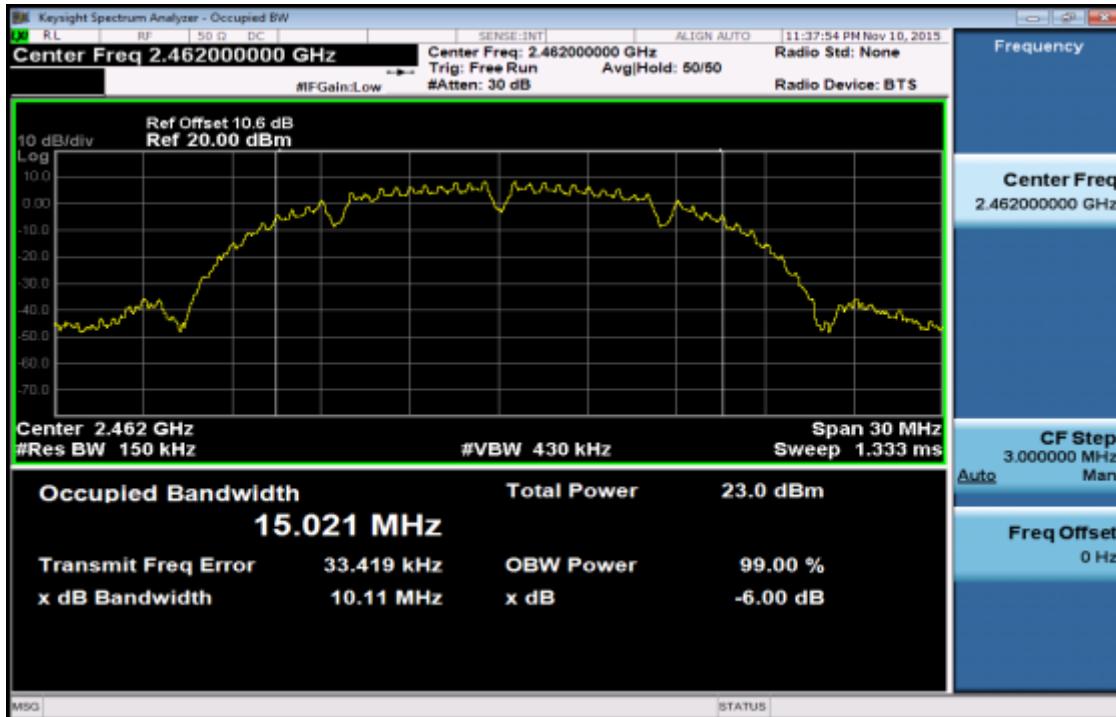
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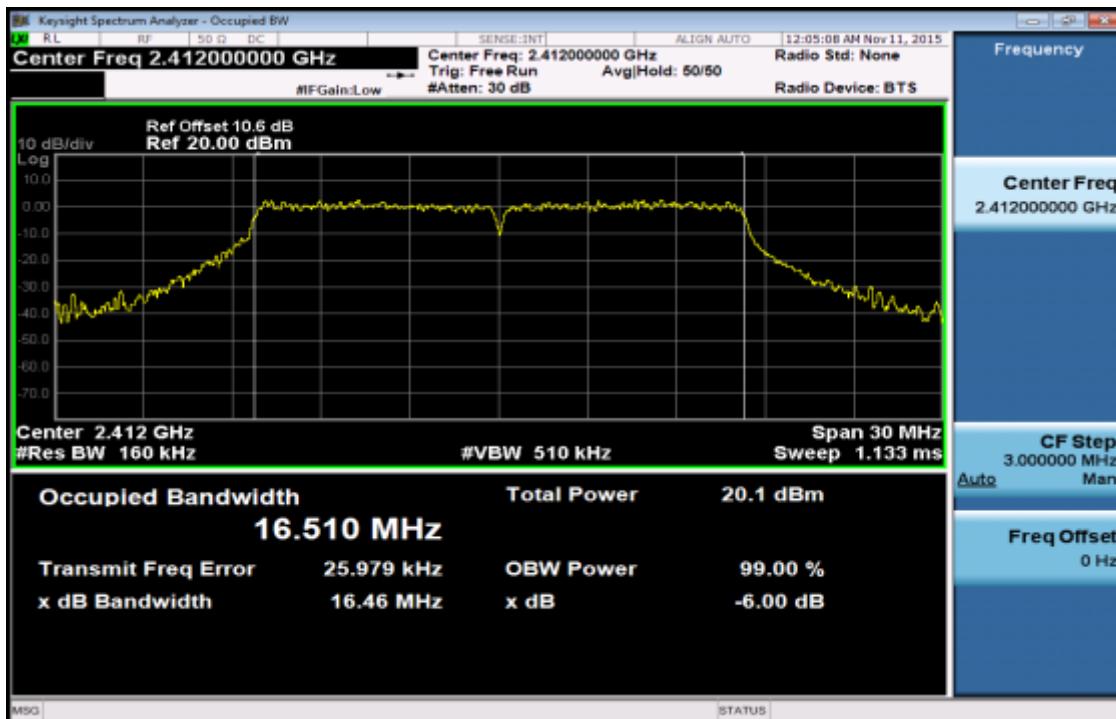
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low

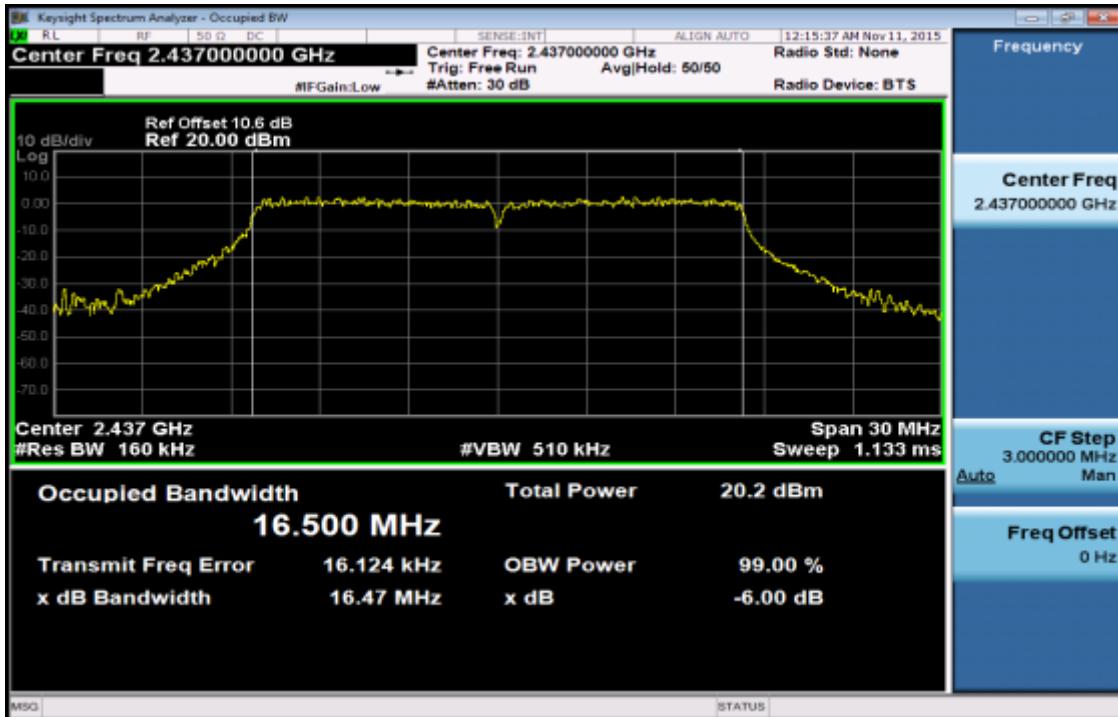


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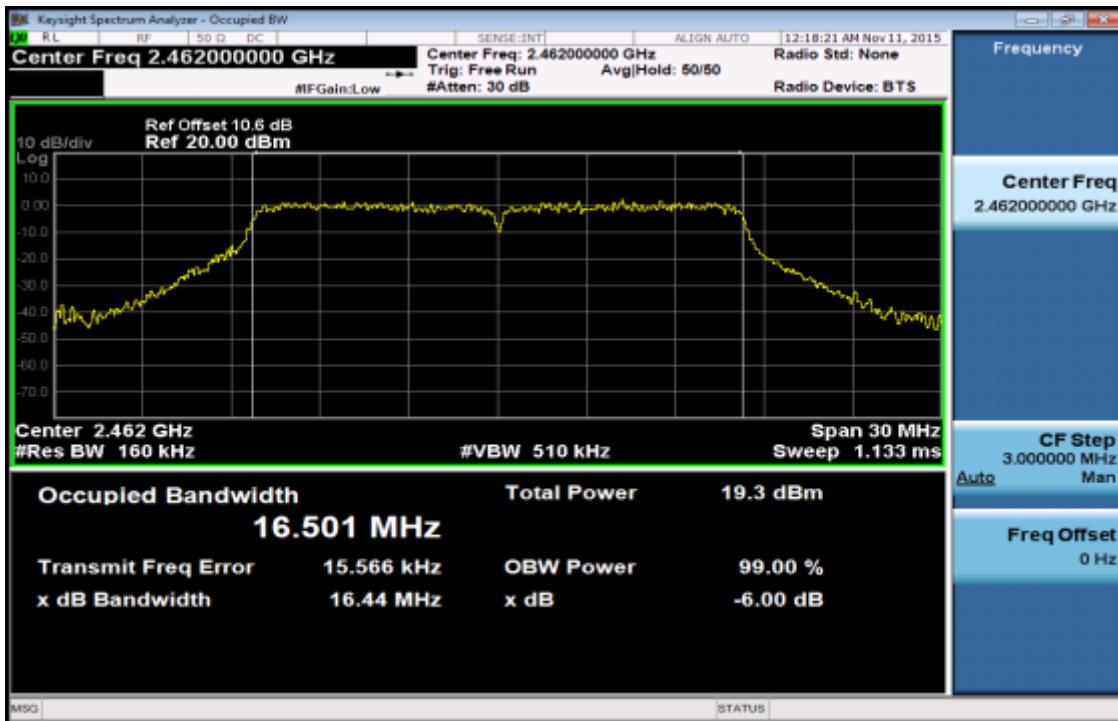
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



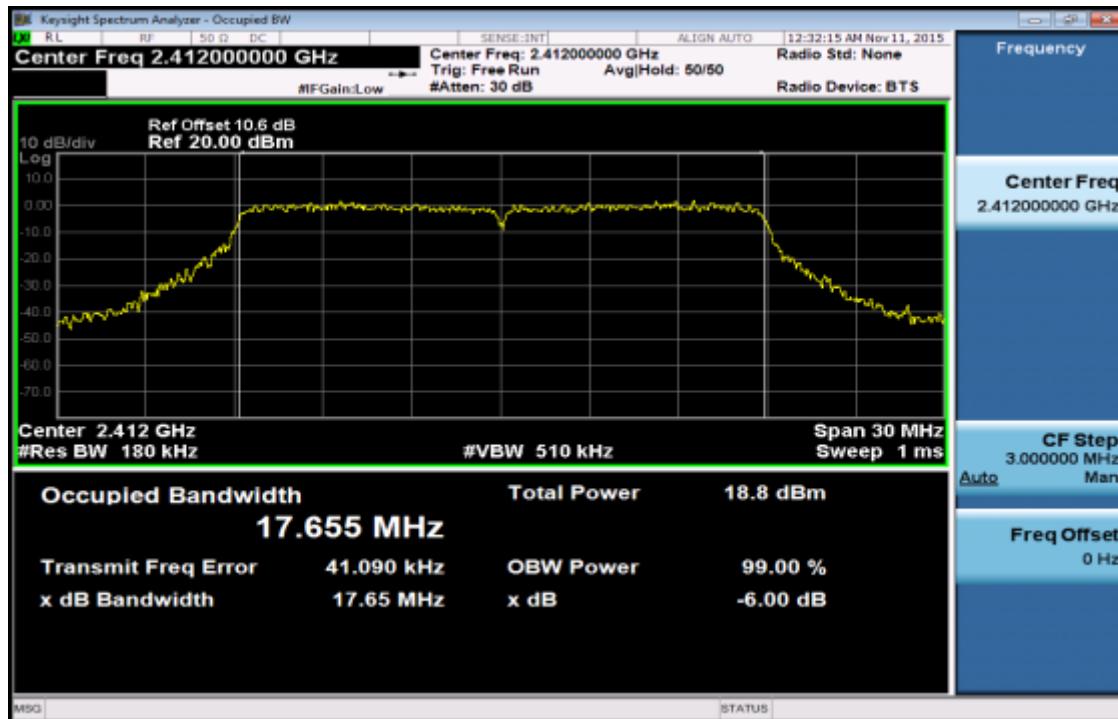
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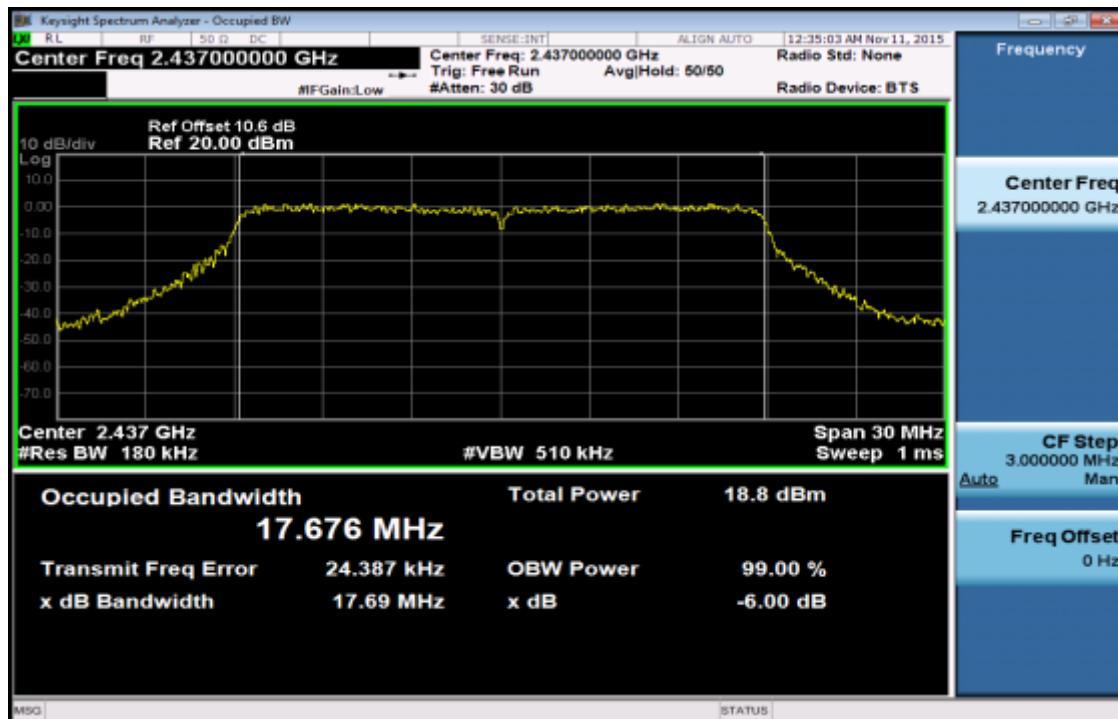
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802.11n_20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

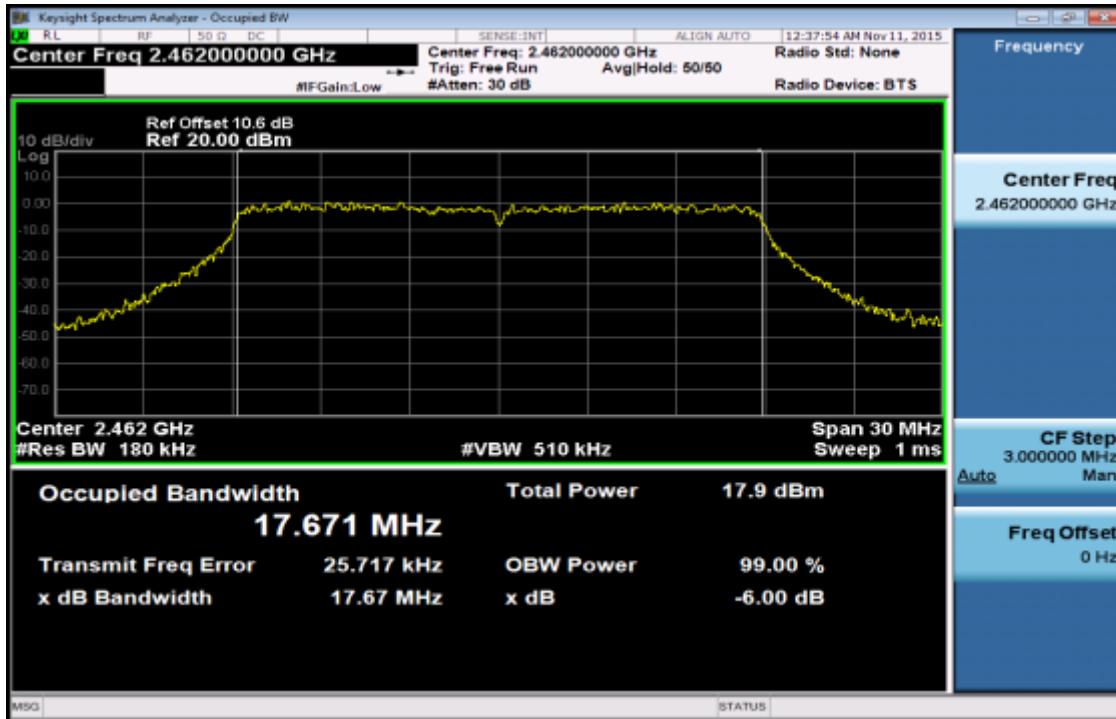


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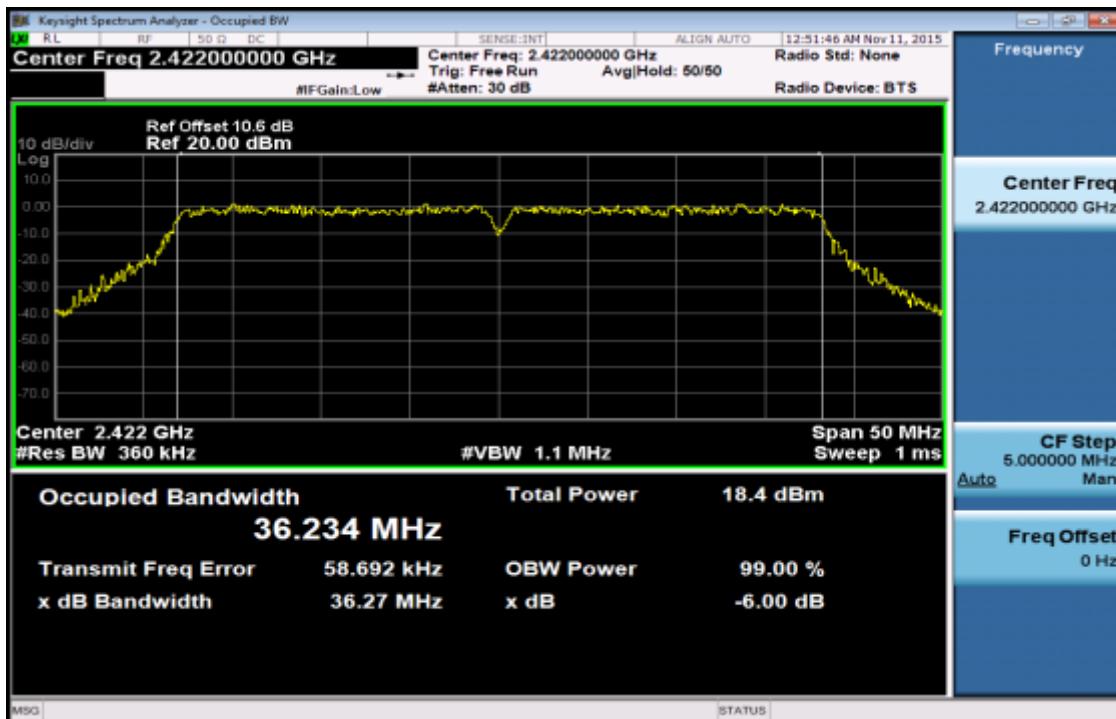
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6dB Band Width Test Data CH-High



802.11 n_40M

6dB Band Width Test Data CH-Low

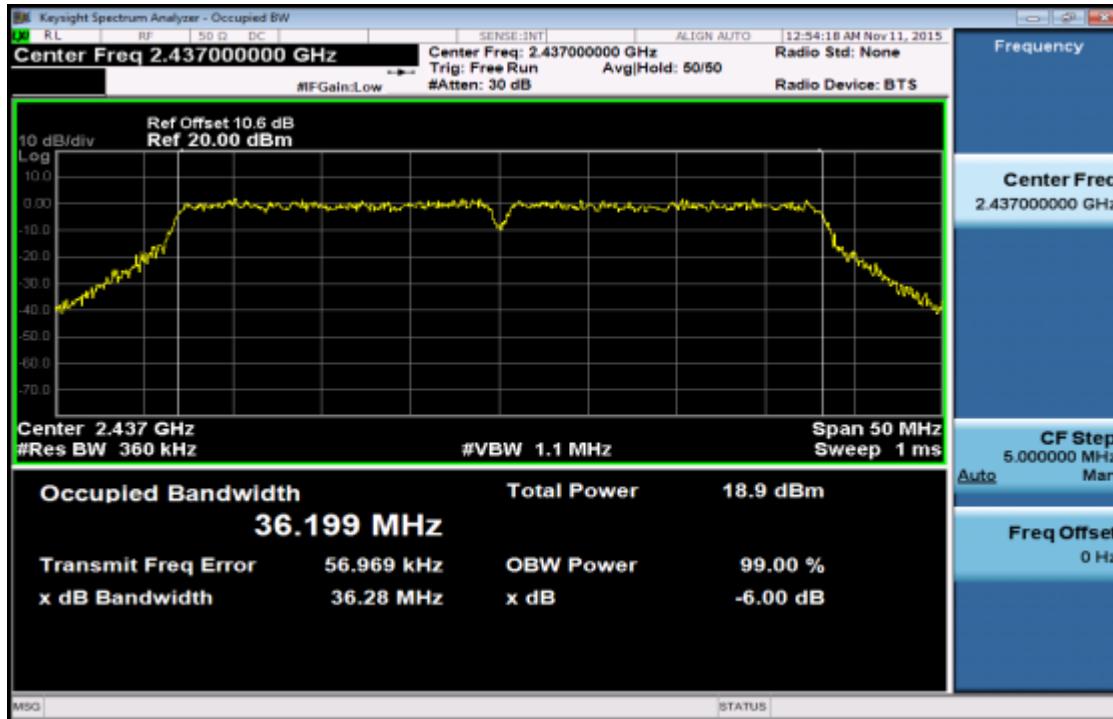


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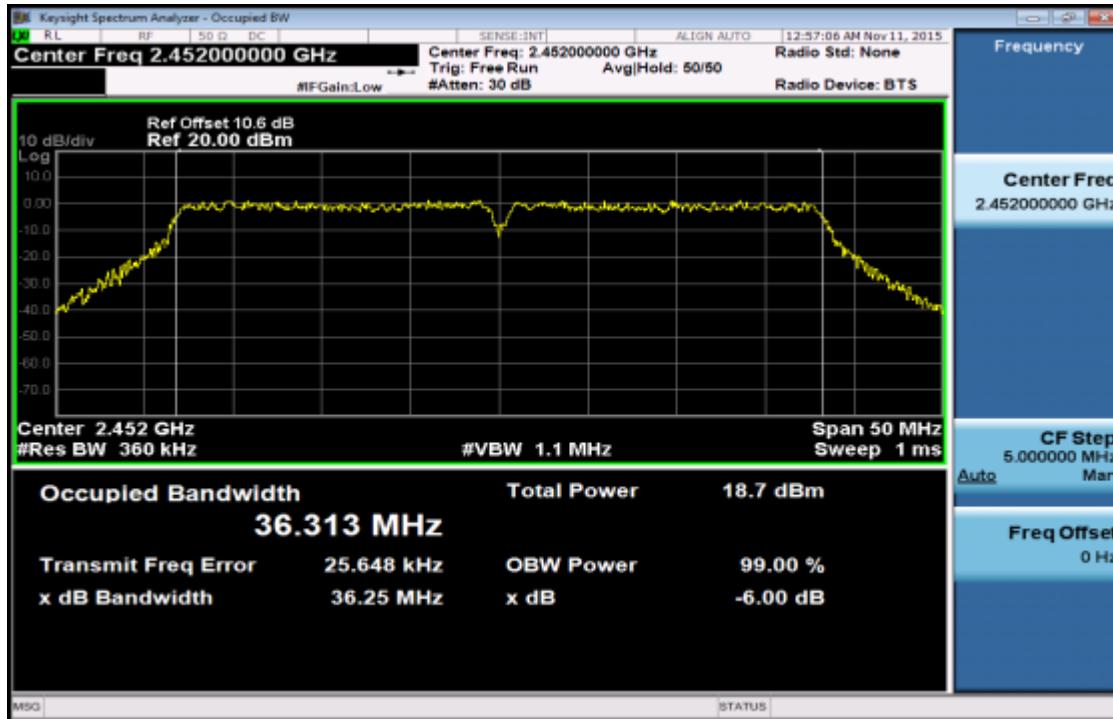
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

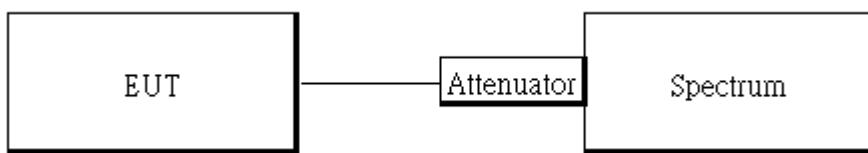
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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).

If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

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	PASTERNACK	PE8210	RF29	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

10.3 Test SET-UP



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10.3.1 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 V03r03.
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 V03r03.
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.

10.4 Measurement Result

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

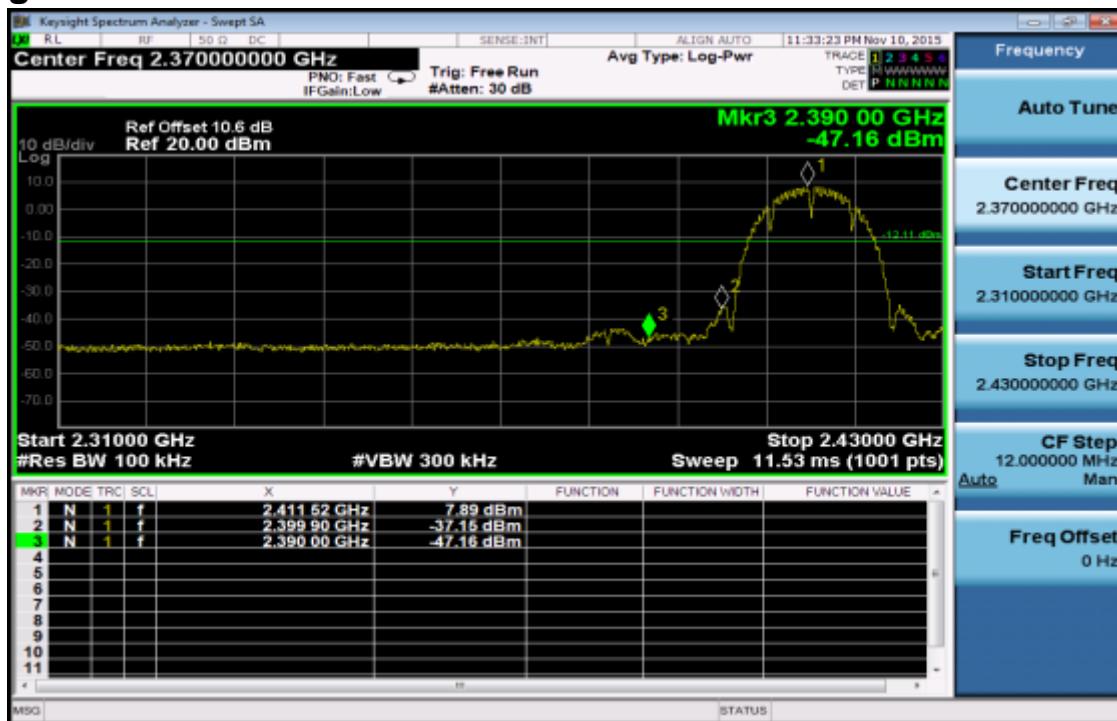
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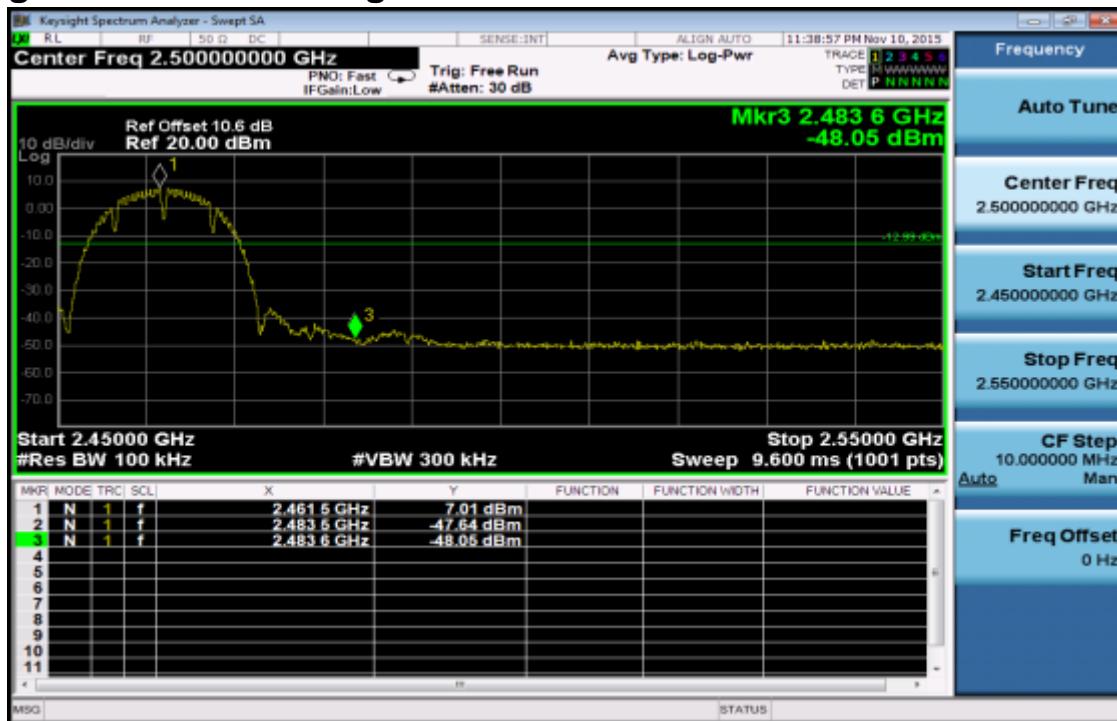
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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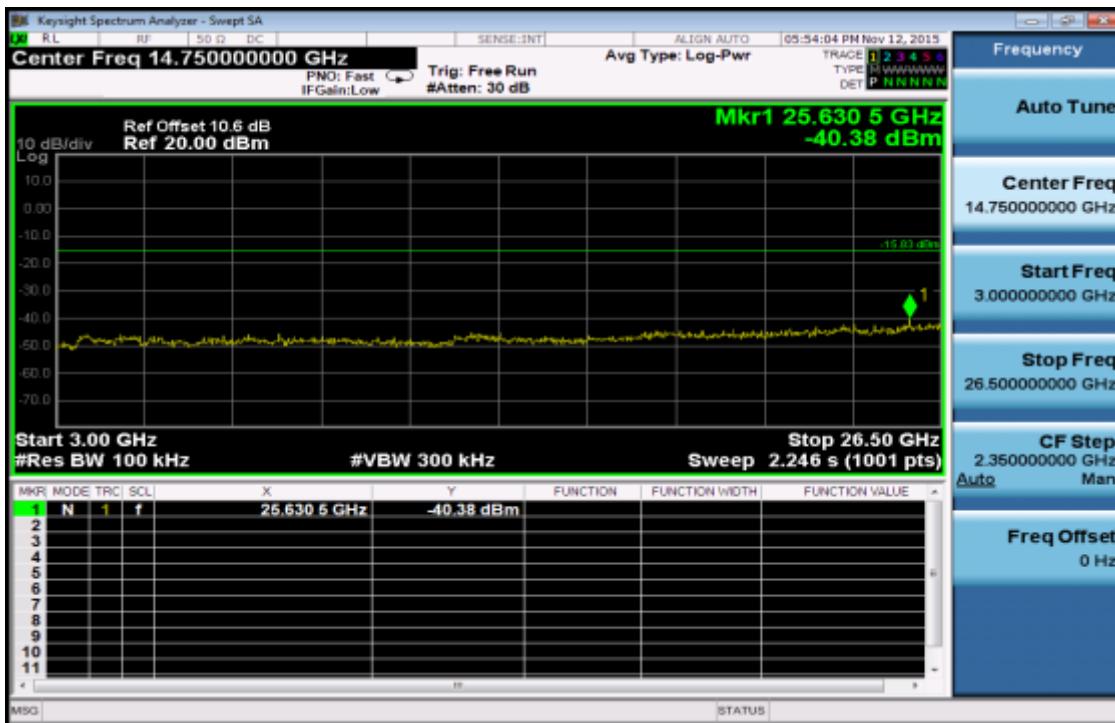
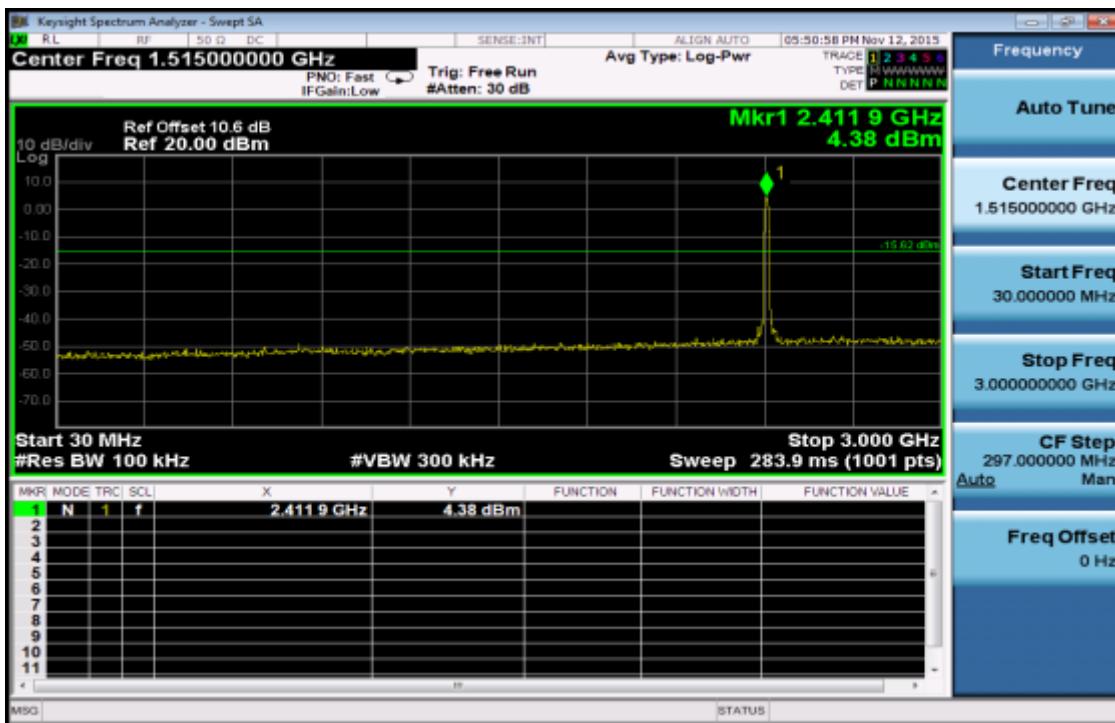
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802.11b

Spurious Emission Test Data CH-Low



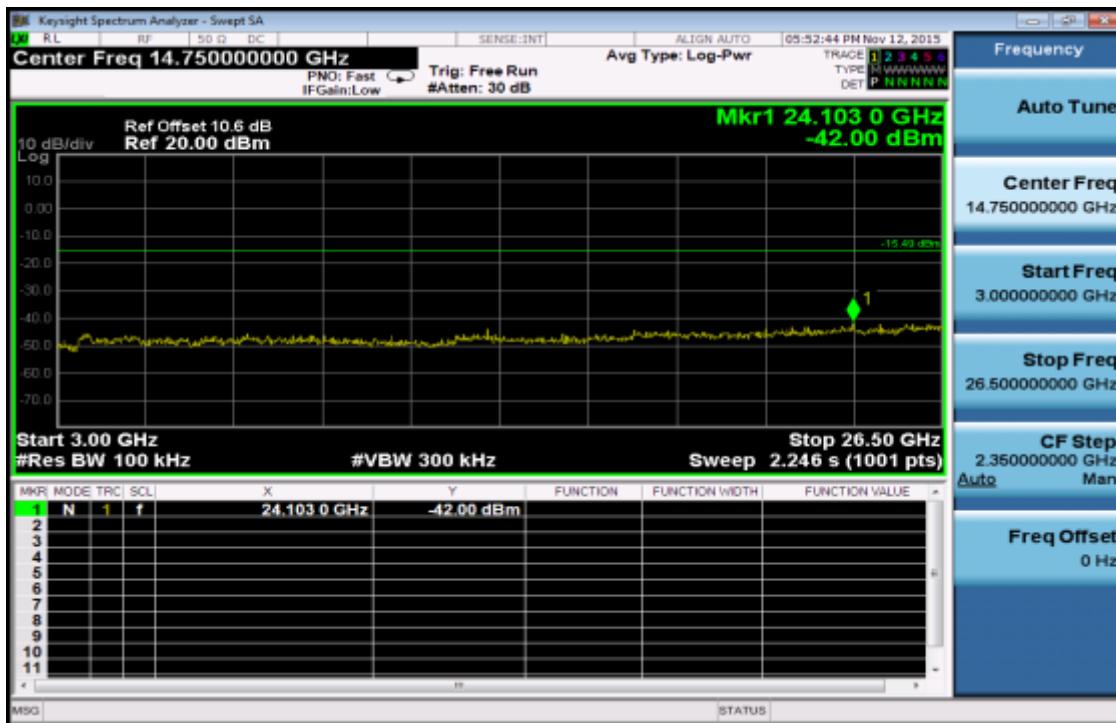
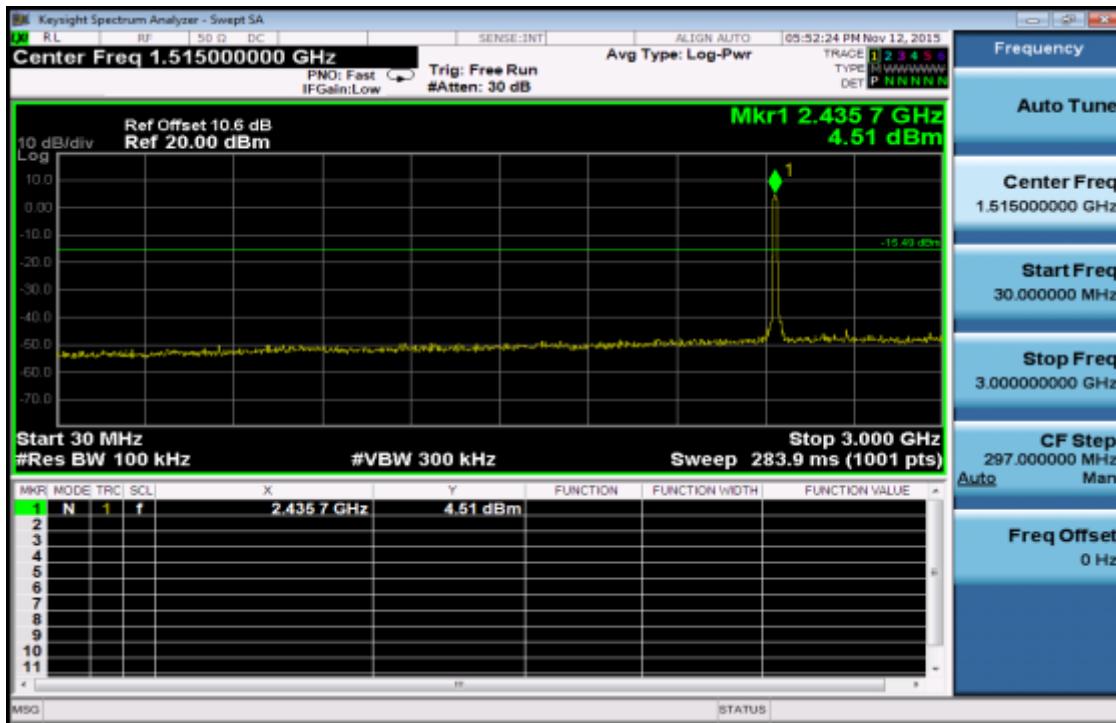
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Spurious Emission Test Data CH-Mid

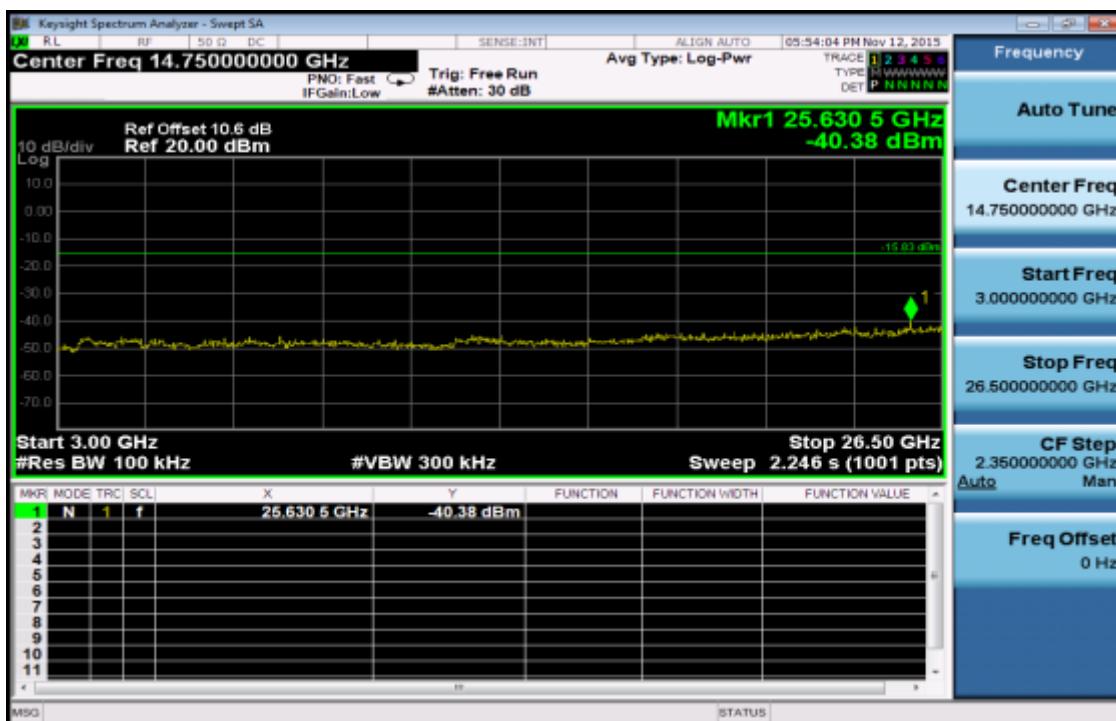
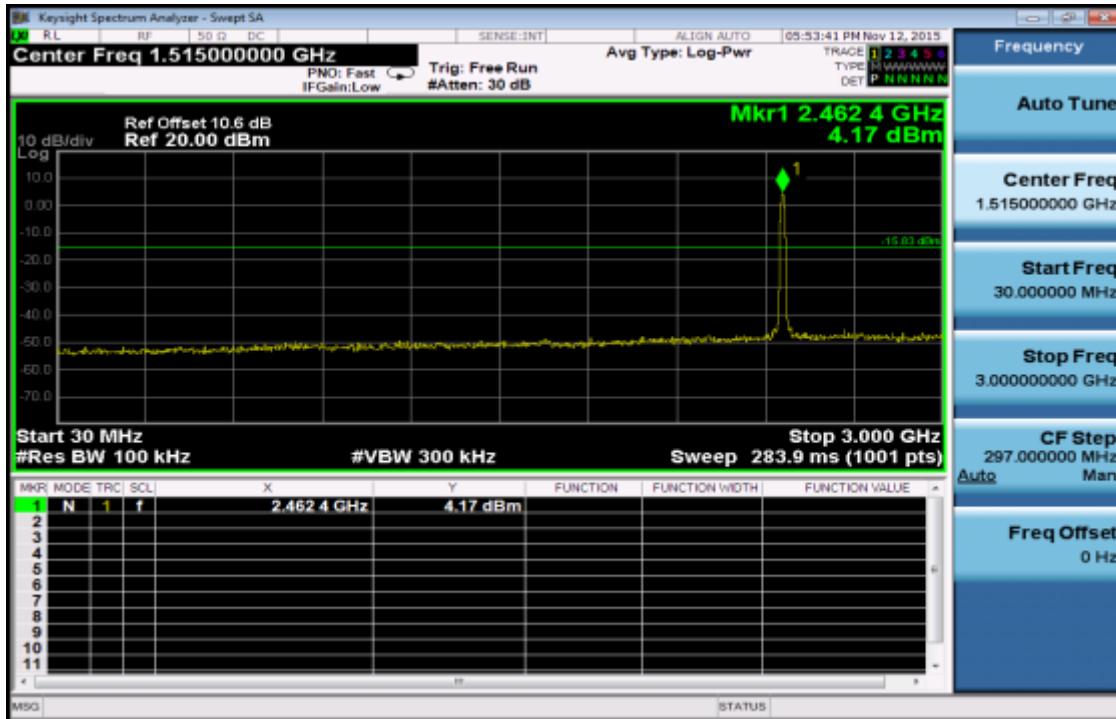


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Spurious Emission Test Data CH-High



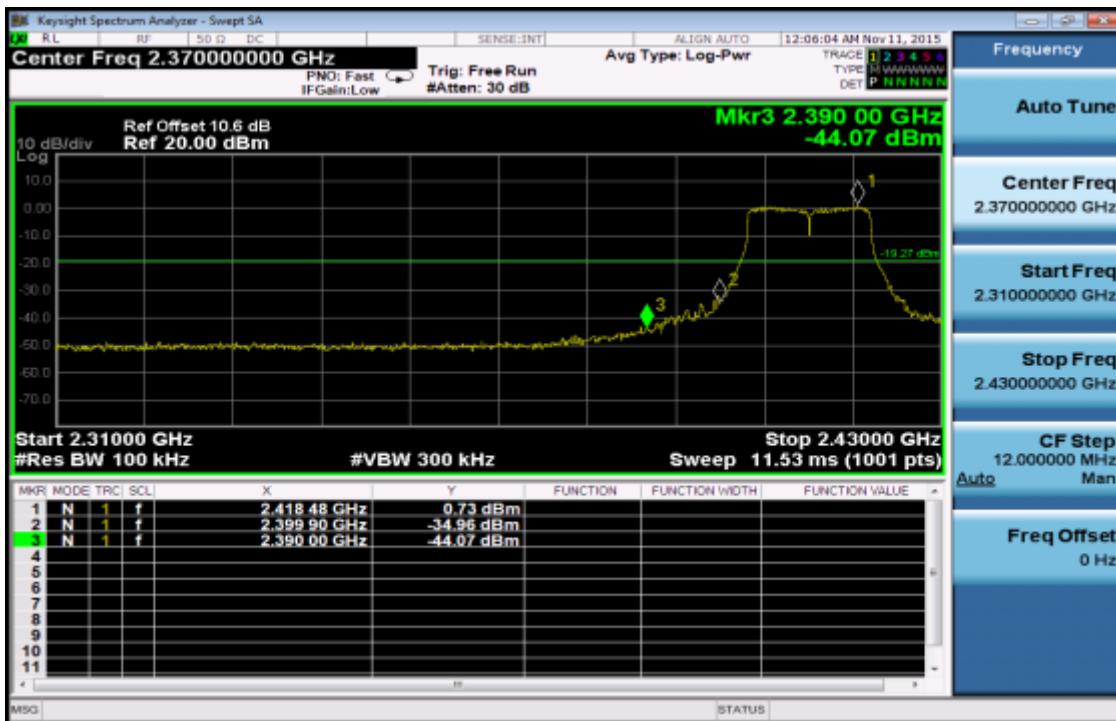
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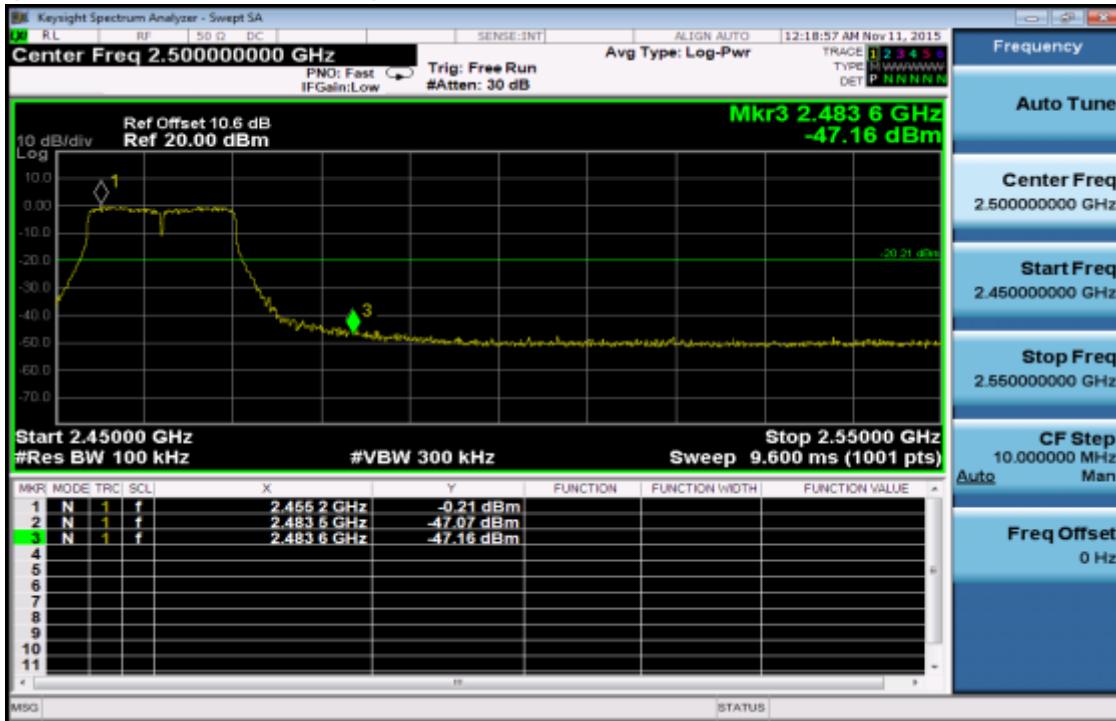
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



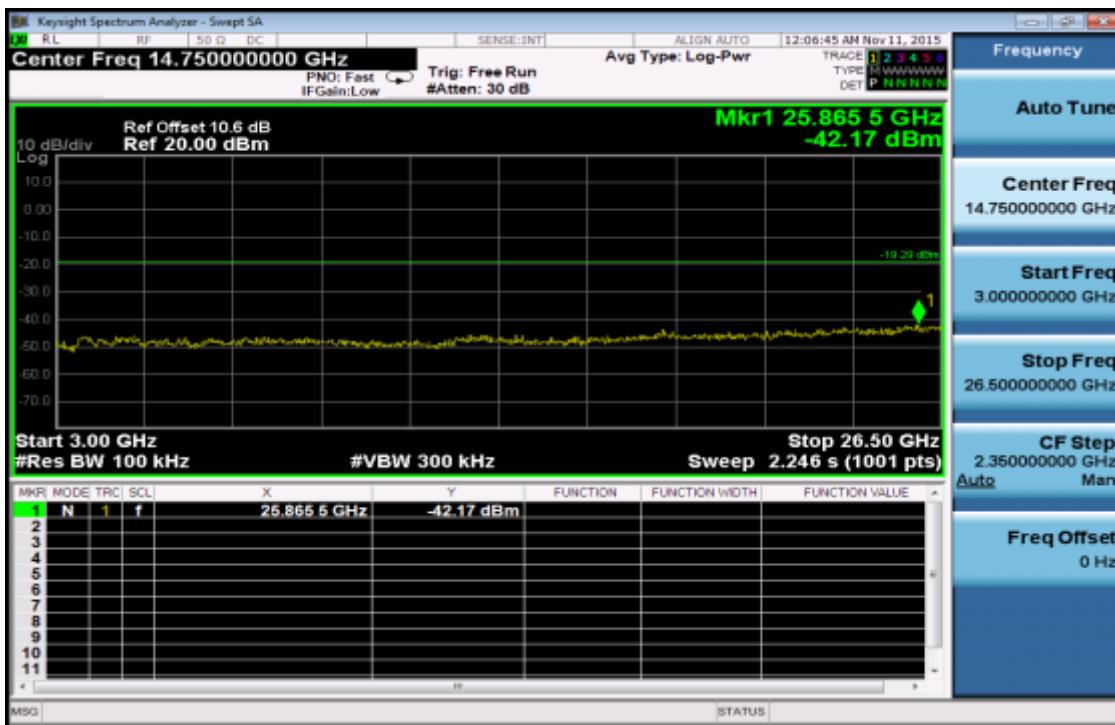
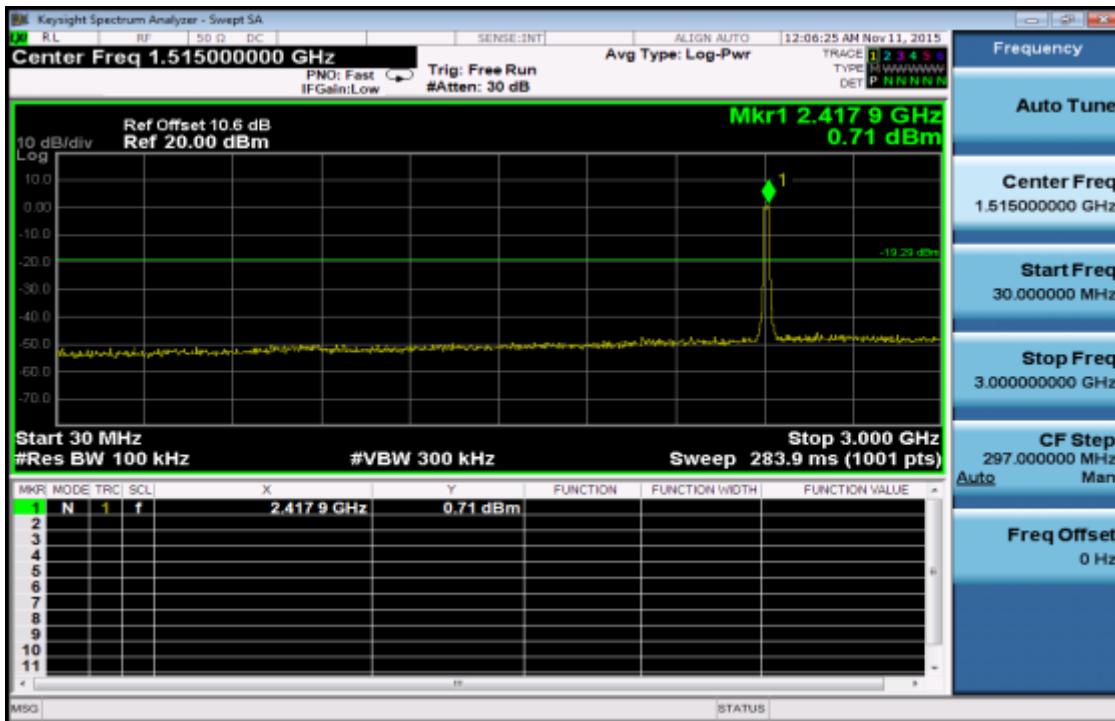
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802.11g

Spurious Emission Test Data CH-Low



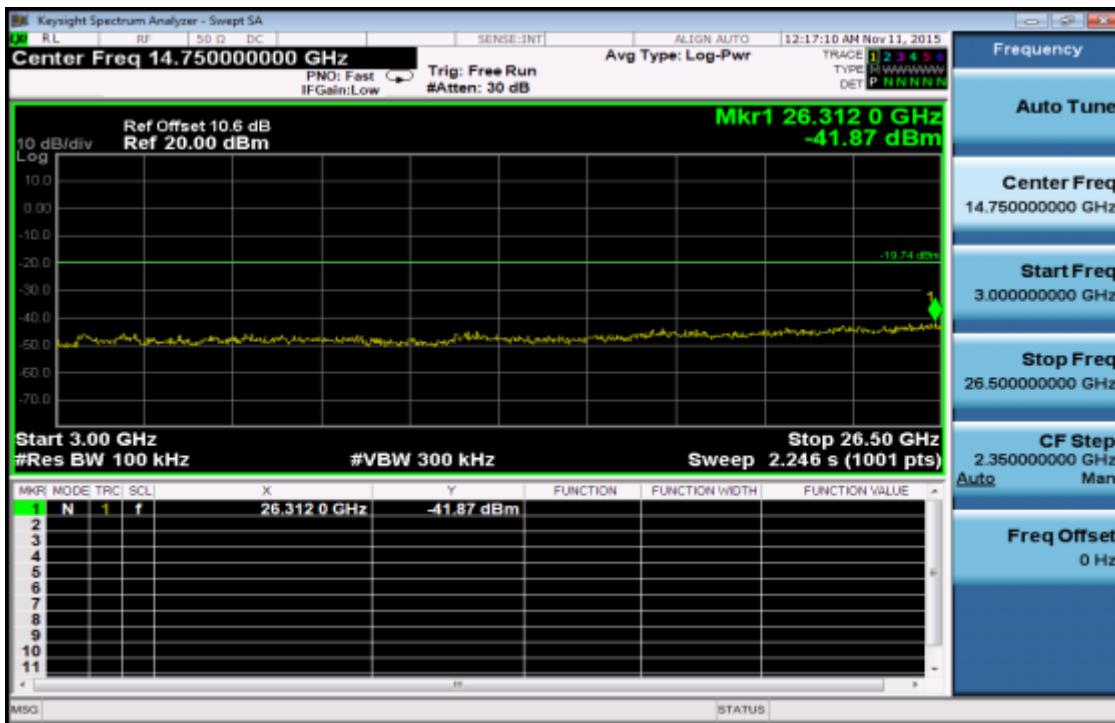
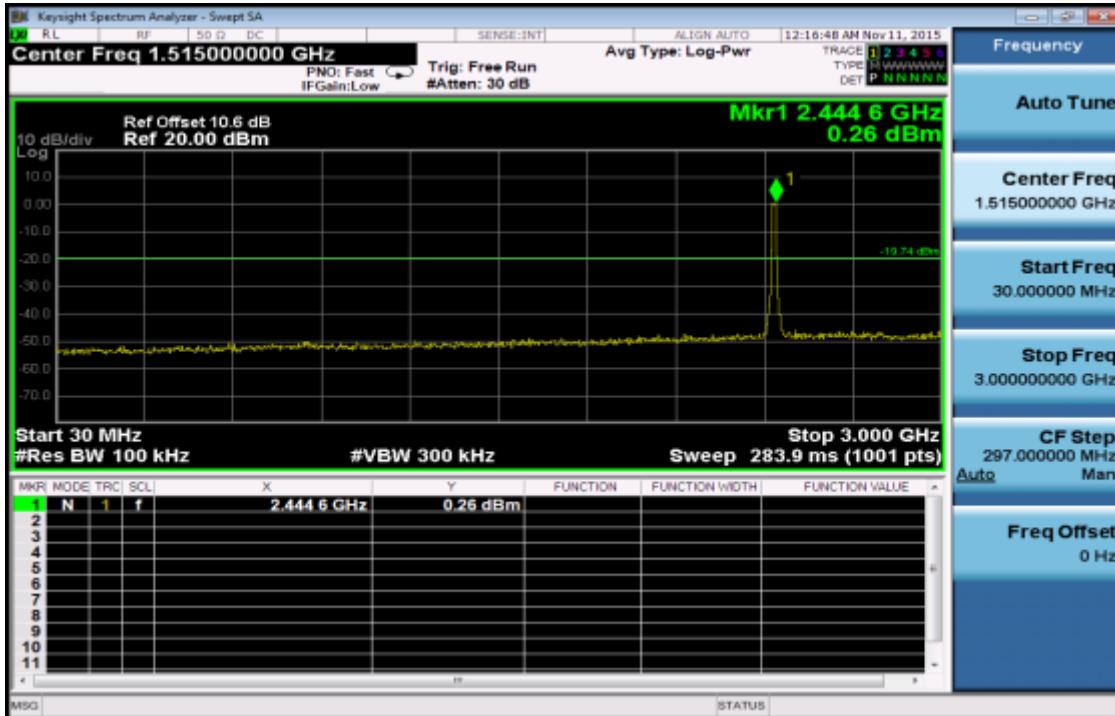
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Spurious Emission Test Data CH-Mid



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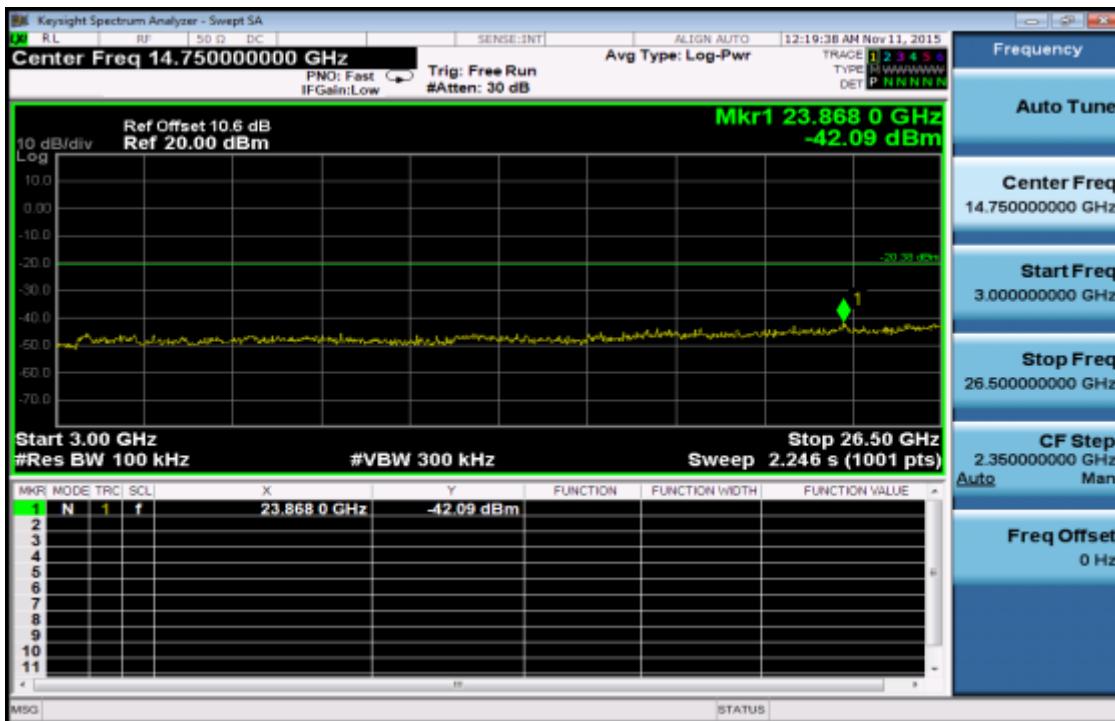
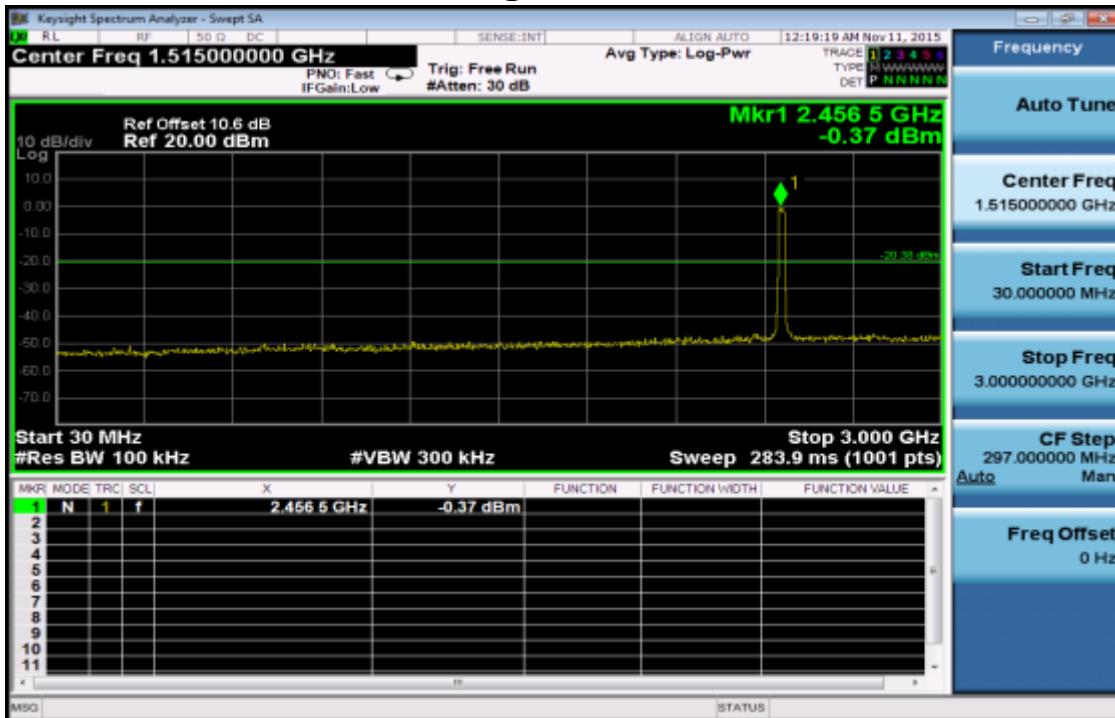
台灣檢驗科技股份有限公司 t (886-2) 2299-3279

f (886-2) 2298-0488

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Spurious Emission Test Data CH-High



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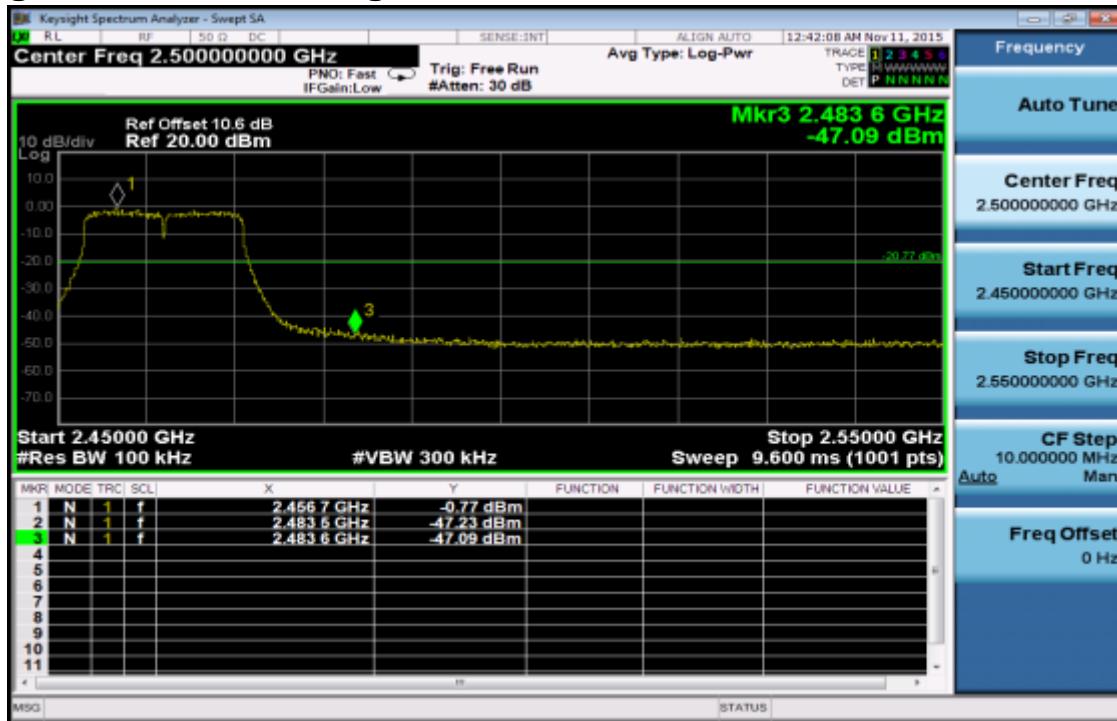
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802.11n_HT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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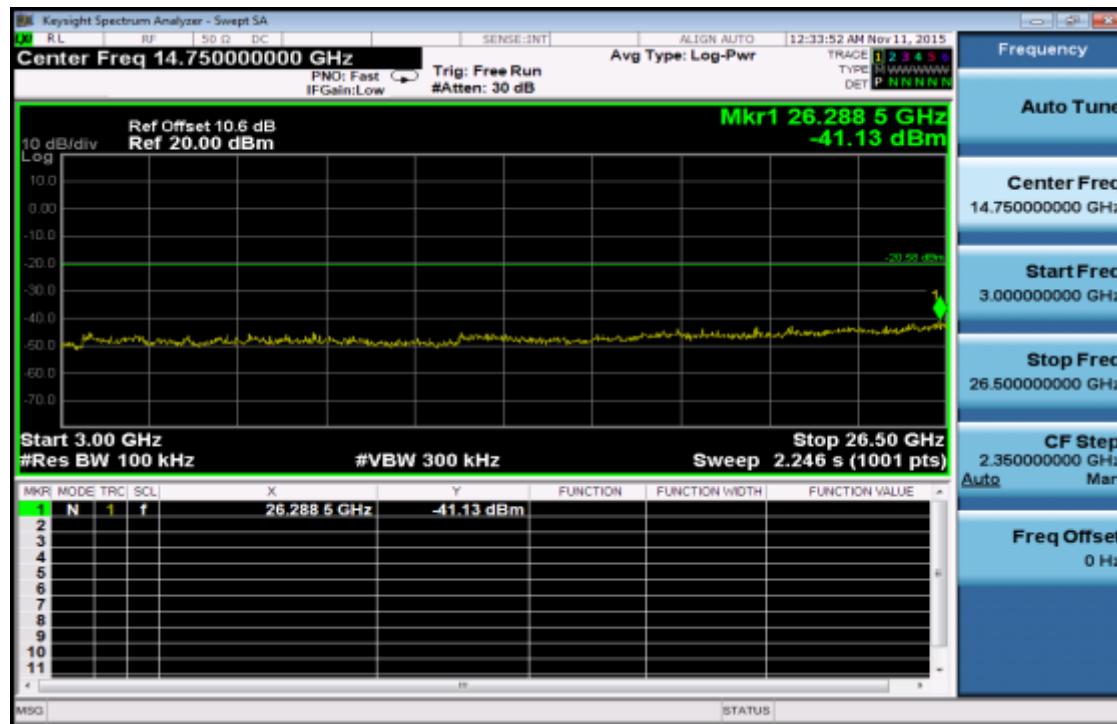
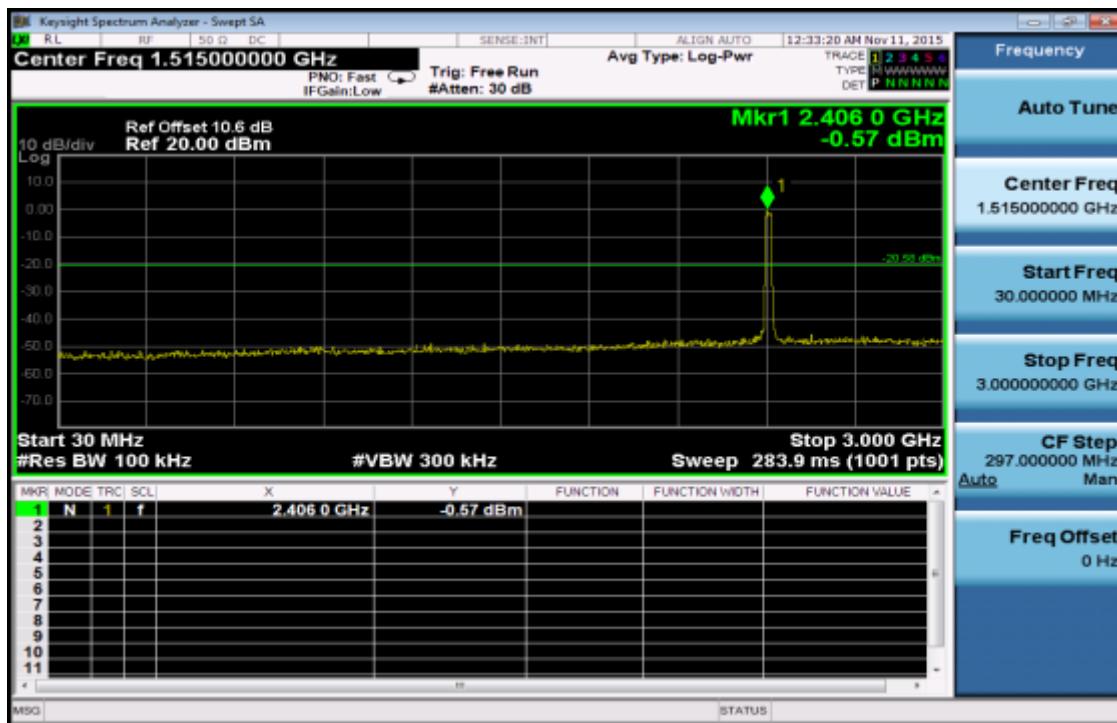
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802.11n_HT20

Spurious Emission Test Data CH-Low

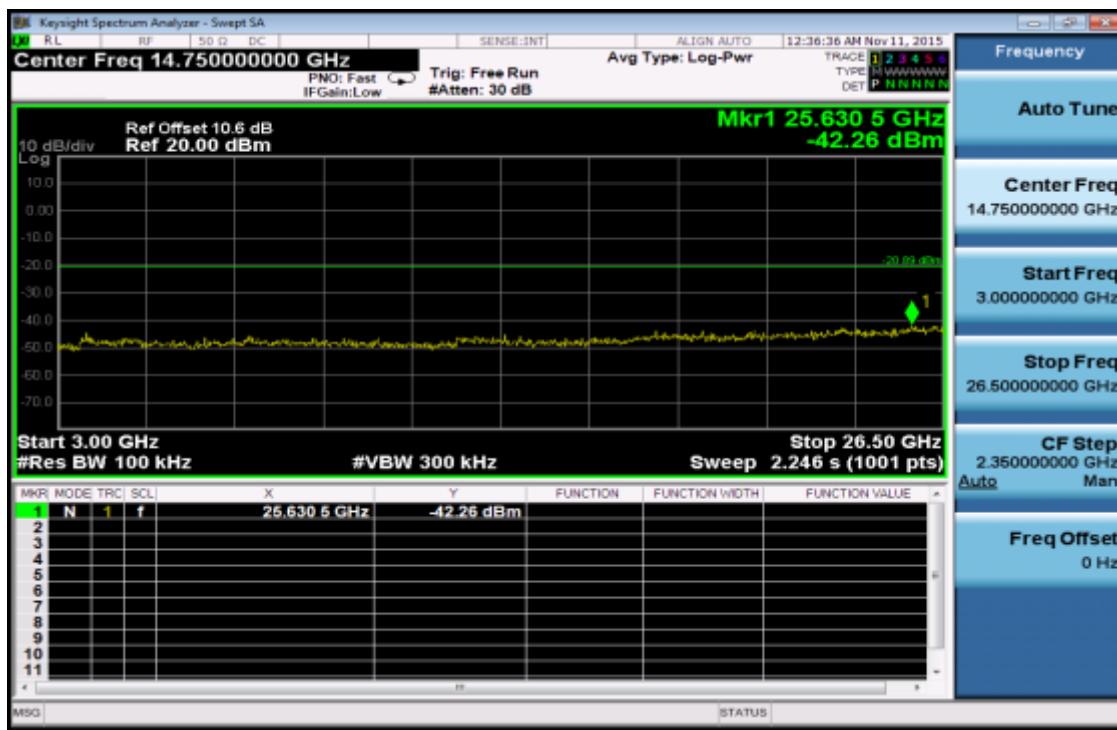
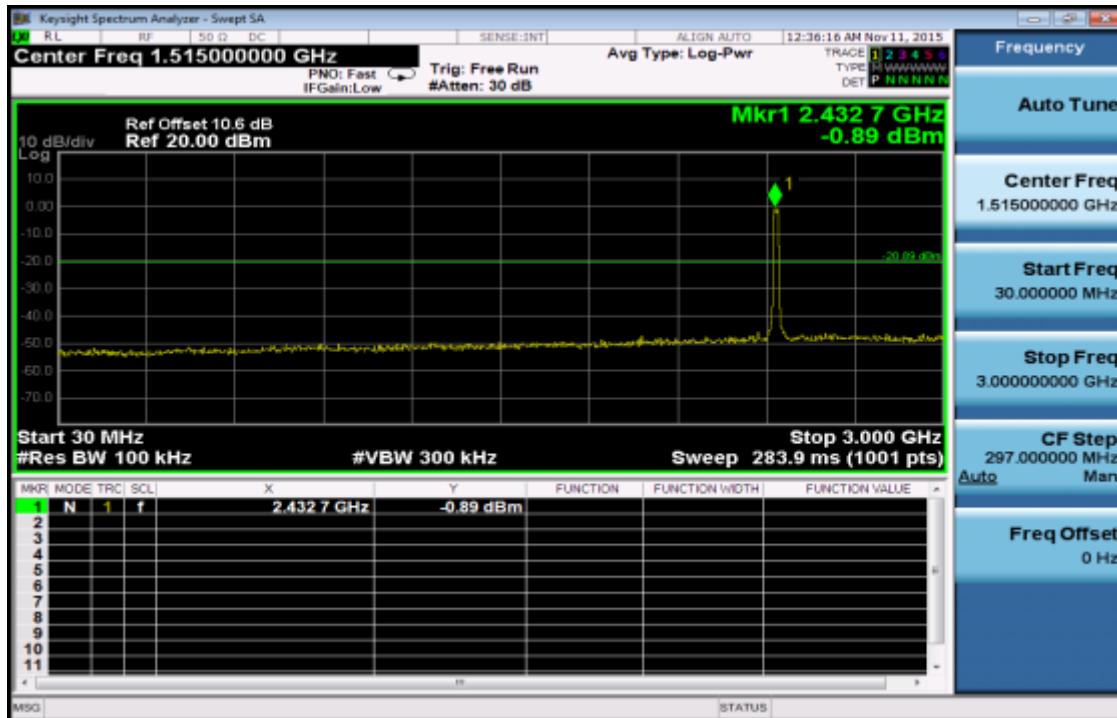


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Spurious Emission Test Data CH-Mid



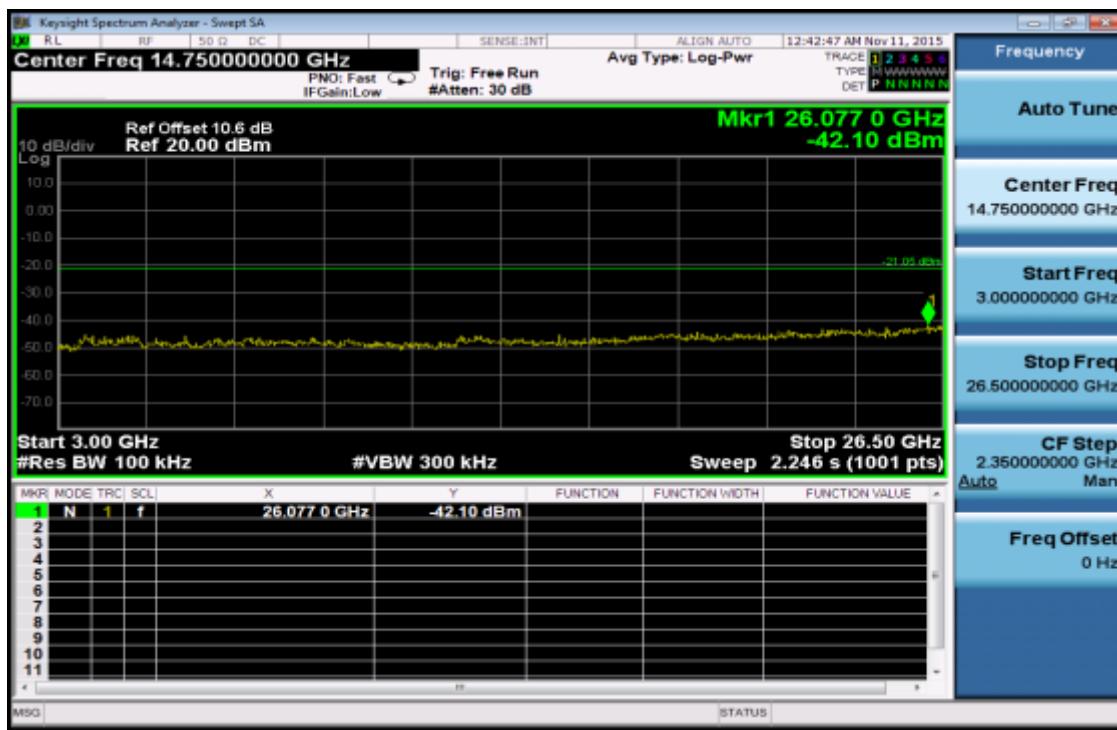
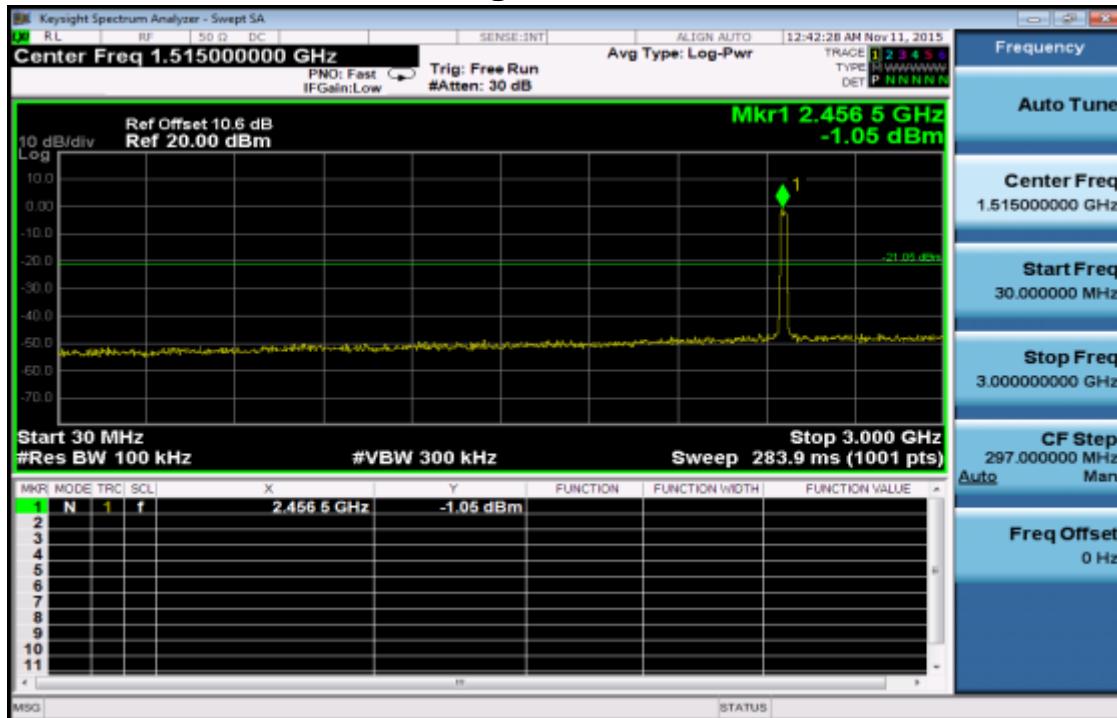
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Spurious Emission Test Data CH-High



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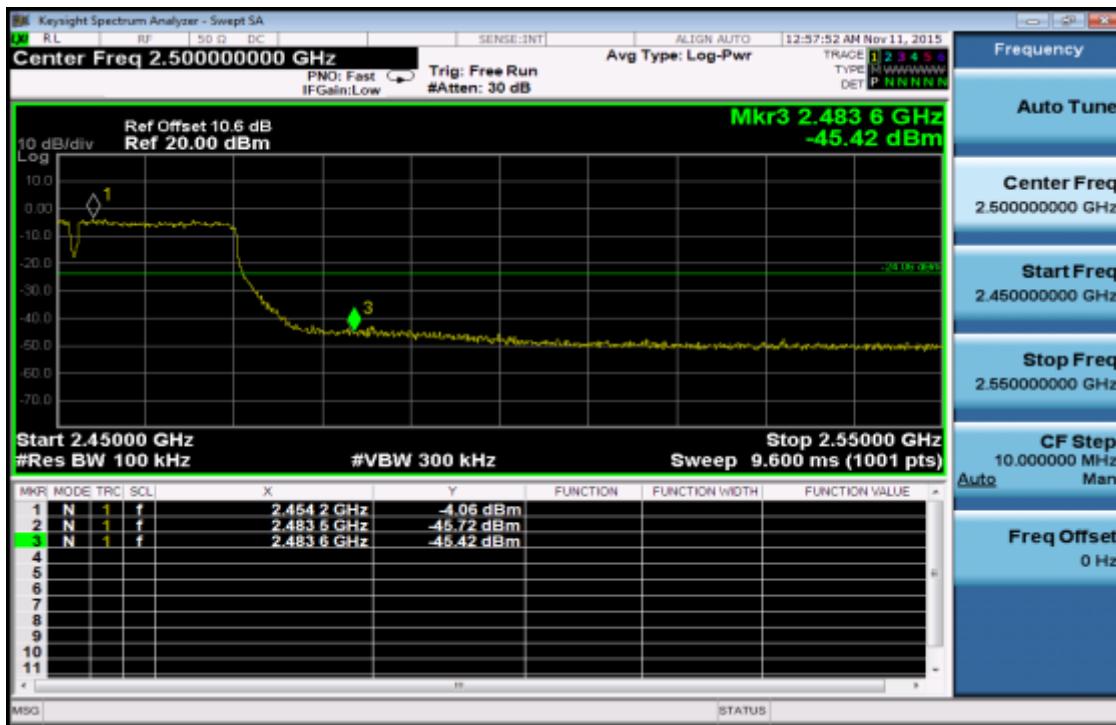
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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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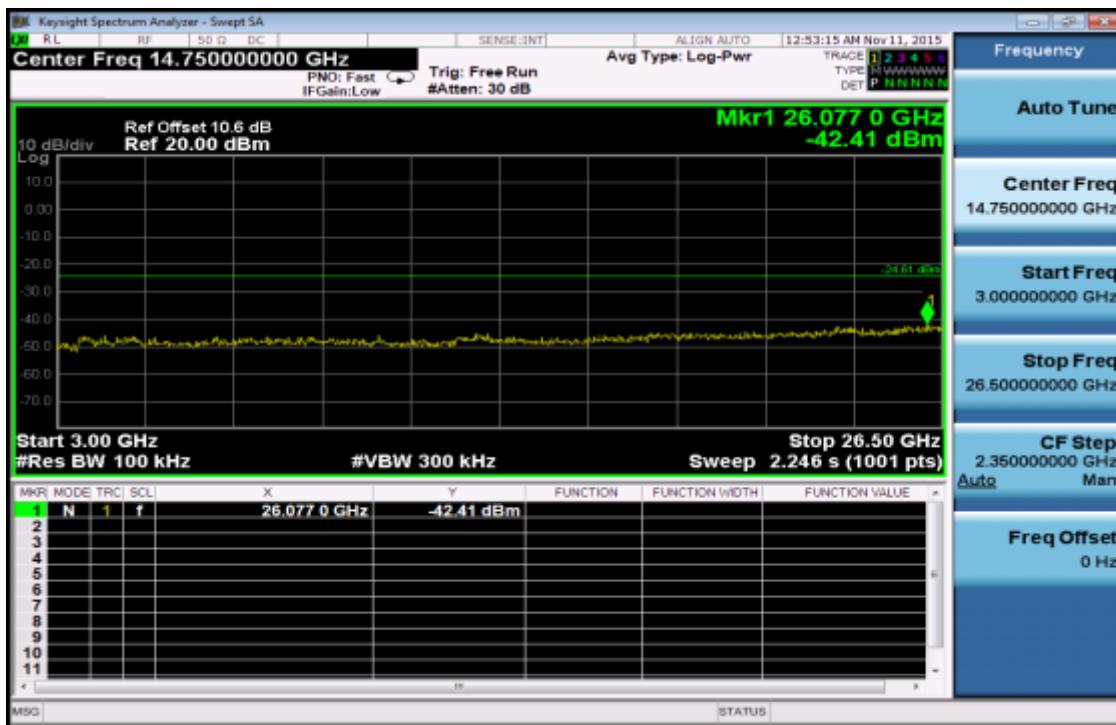
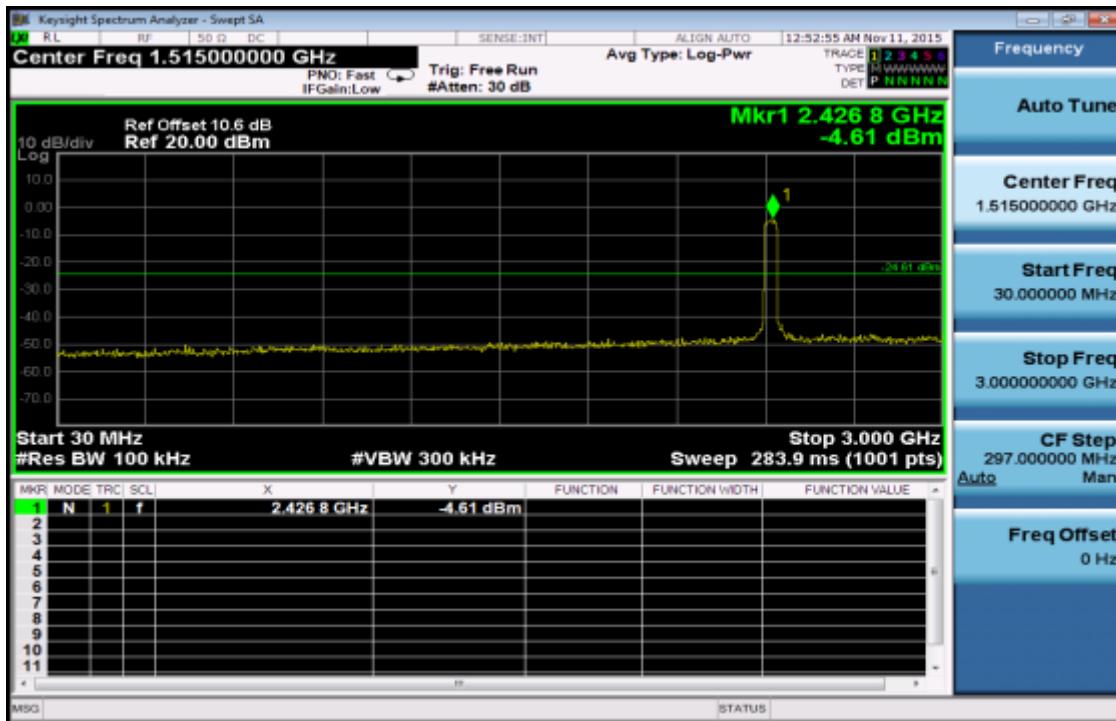
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802.11n_HT40

Spurious Emission Test Data CH-Low



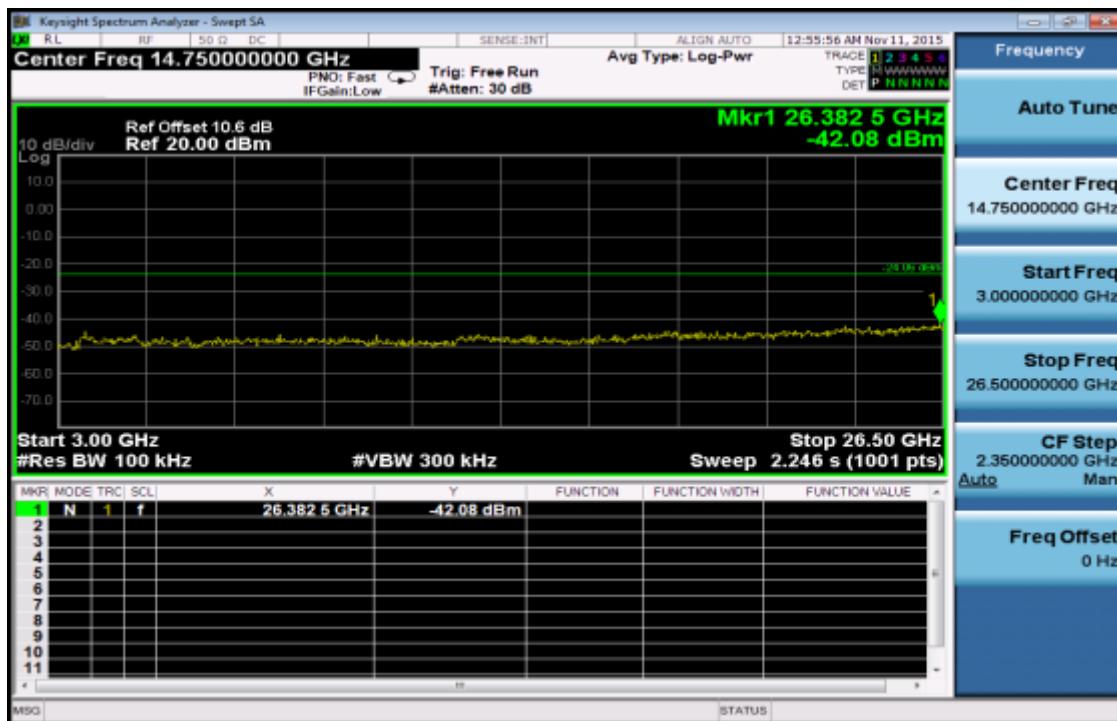
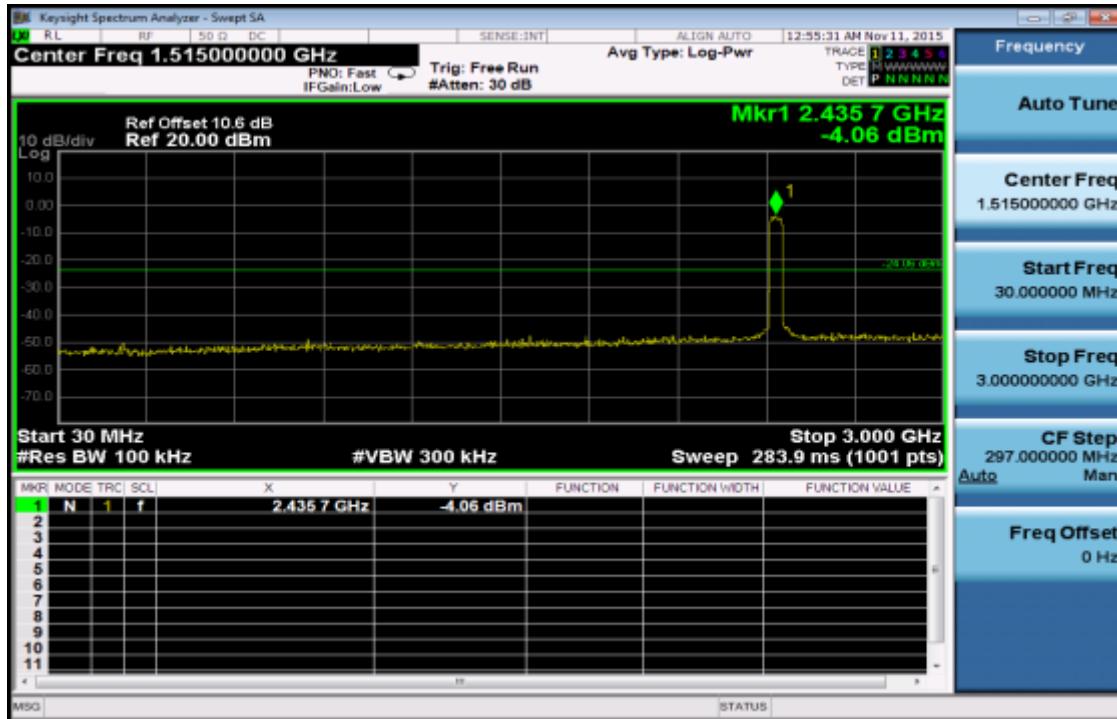
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Spurious Emission Test Data CH-Mid



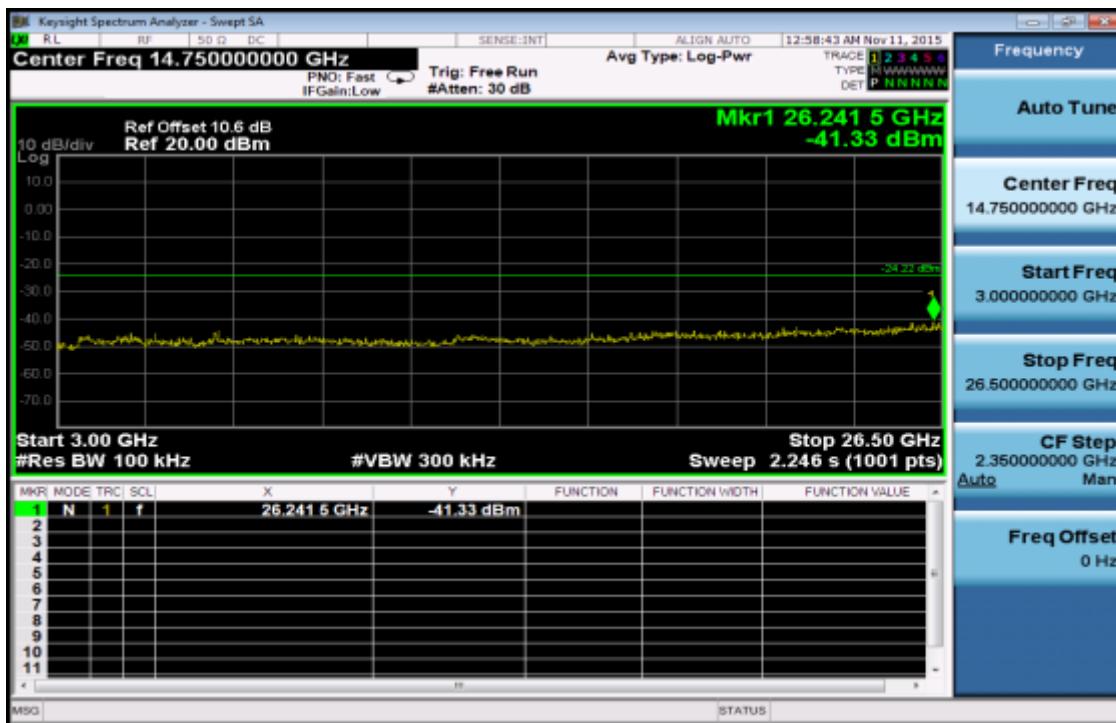
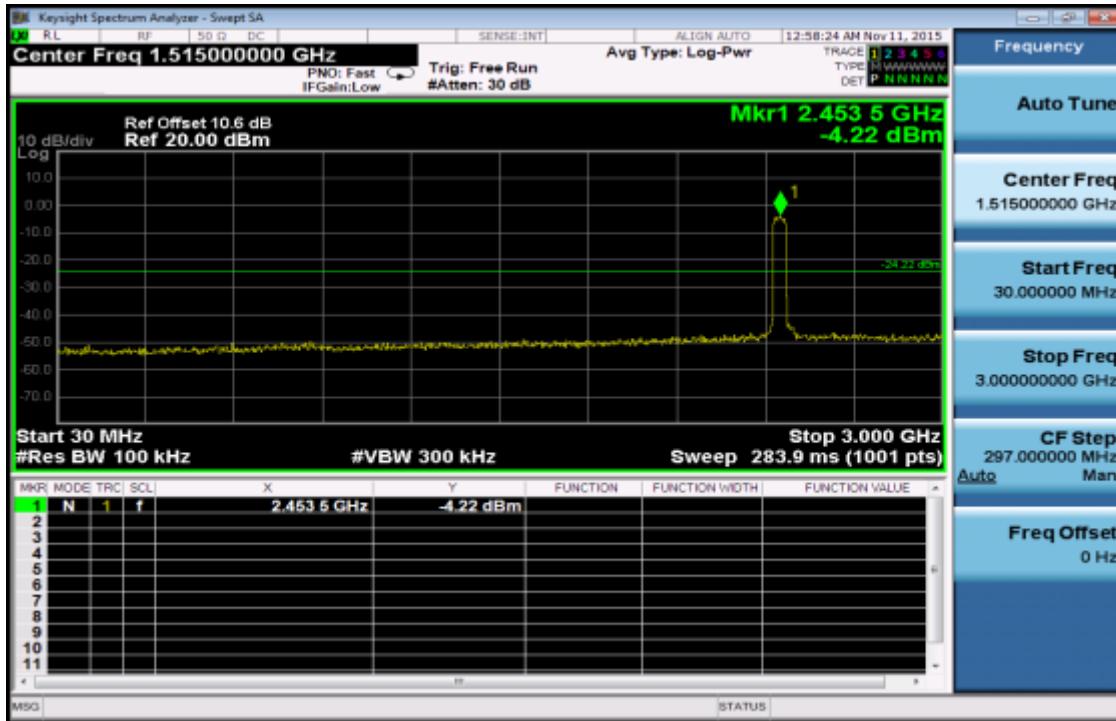
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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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:

SGS 966 Chamber No.C					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESU 40	100363	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2014	12/08/2015
Broadband Antenna	TESEQ	CBL 6112D	35240	12/05/2014	12/04/2015
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2014	12/07/2015
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/19/2014	12/18/2015
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-18	10204	12/19/2014	12/18/2015
Pre Amplifier	R&S	SCU-26	100780	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/19/2014	12/18/2015
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF27	12/19/2014	12/18/2015
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.

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

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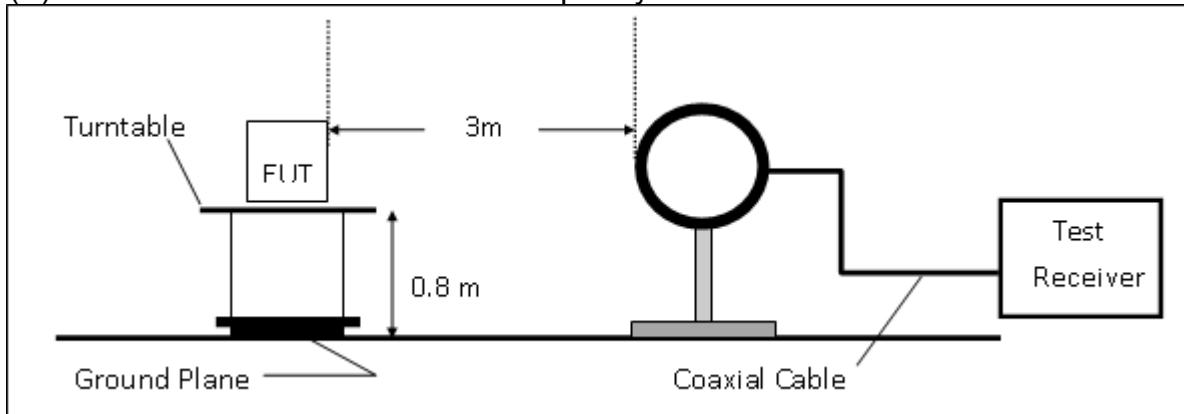
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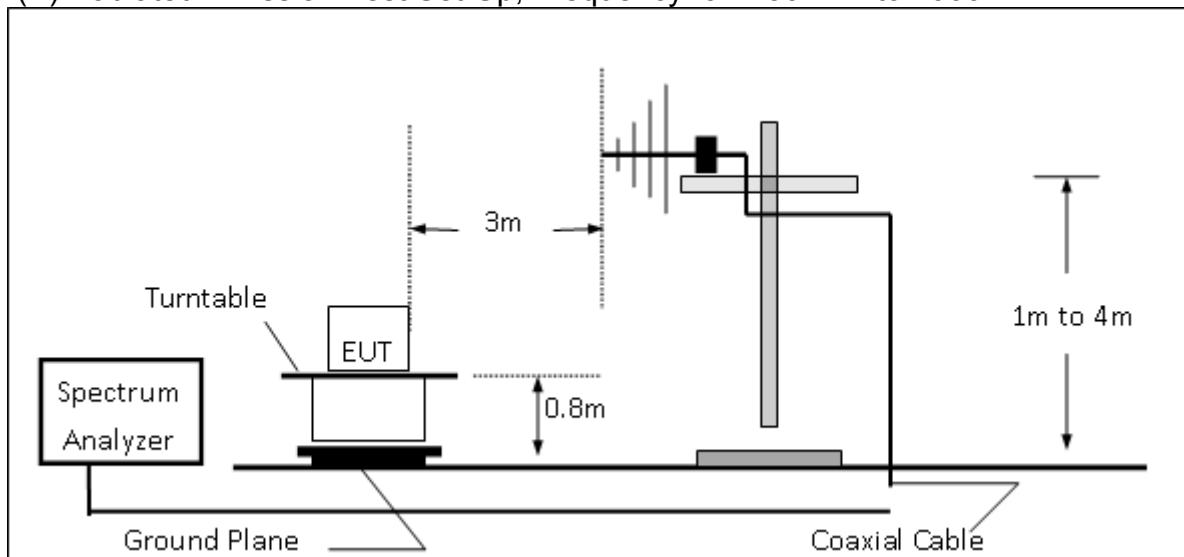
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11.3 Test SET-UP

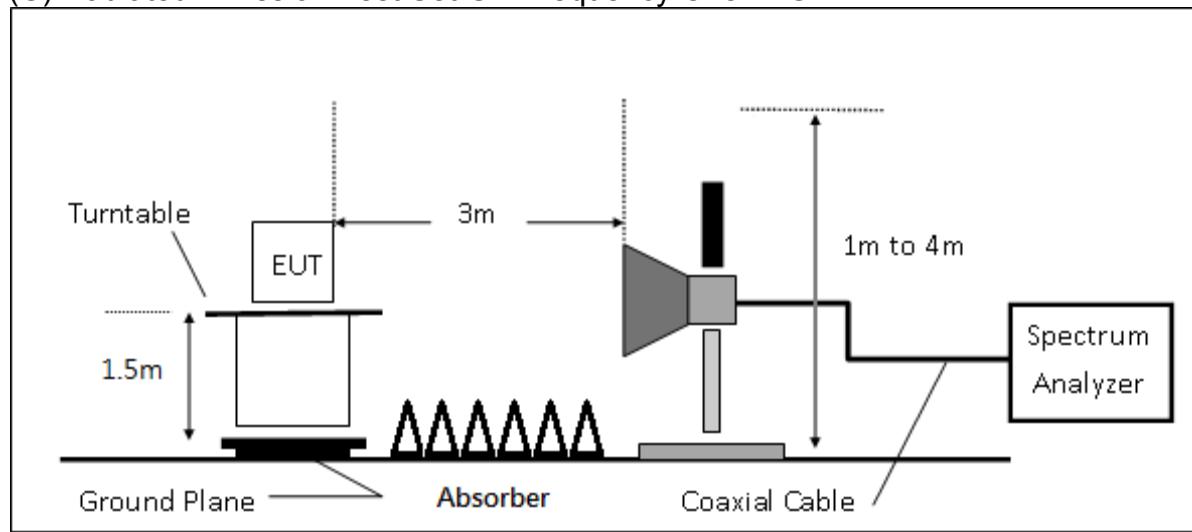
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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11.3.1 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r03.
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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11.4 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)

Note :

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

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

11.5 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.

11.6 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 : 2015/11/13
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Vertical

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Level dB μ V				
2390.00	E	Peak	49.33	6.62	55.95	74	-18.05
2390.00	E	Average	37.66	6.62	44.28	54	-9.72

Operation Mode : 802.11b Test Date : 2015/11/13
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H Measurement Antenna Pol. : Horizontal

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
			Level dB μ V				
2390.00	E	Peak	44.59	6.62	51.20	74	-22.80
2390.00	E	Average	33.38	6.62	40.00	54	-14.00

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Operation Mode : 802.11b Test Date : 2015/11/13
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
2483.50	E	Peak	52.34	6.96	59.30	74	-14.70
2483.50	E	Average	38.60	6.96	45.56	54	-8.44

Operation Mode : 802.11b Test Date : 2015/11/13
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
2483.50	E	Peak	45.53	6.96	52.50	74	-21.50
2483.50	E	Average	33.73	6.96	40.69	54	-13.31

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode : 802.11g Test Date : 2015/11/10
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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	63.73	6.62	70.35	74	-3.65
2390.00	E	Average	45.22	6.62	51.84	54	-2.16

Operation Mode : 802.11g Test Date : 2015/11/10
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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
2389.56	S	Peak	57.15	6.62	63.76	74	-10.24
2389.56	S	Average	37.85	6.62	44.47	54	-9.53
2390.00	E	Peak	56.46	6.62	63.08	74	-10.92
2390.00	E	Average	38.23	6.62	44.85	54	-9.15

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Operation Mode : 802.11g Test Date : 2015/11/10
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
2483.50	E	Peak	65.95	6.96	72.92	74	-1.08
2483.50	E	Average	45.08	6.96	52.04	54	-1.96

Operation Mode : 802.11g Test Date : 2015/11/10
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
2483.50	E	Peak	53.84	6.96	60.81	74	-13.19
2483.50	E	Average	35.80	6.96	42.76	54	-11.24
2484.70	S	Peak	54.58	6.97	61.54	74	-12.46
2484.70	S	Average	35.20	6.97	42.17	54	-11.83

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode : 802.11n20 Test Date : 2015/11/10
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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	65.28	6.62	71.90	74	-2.10
2390.00	E	Average	42.89	6.62	49.51	54	-4.49

Operation Mode : 802.11n20 Test Date : 2015/11/10
Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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
2390.00	E	Peak	55.98	6.62	62.59	74	-11.41
2390.00	E	Average	36.01	6.62	42.63	54	-11.37

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Operation Mode : 802.11n20 Test Date : 2015/11/10
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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	64.04	6.96	71.00	74	-3.00
2483.50	E	Average	42.79	6.96	49.75	54	-4.25

Operation Mode : 802.11n20 Test Date : 2015/11/10
Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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	54.43	6.96	61.40	74	-12.60
2483.50	E	Average	35.89	6.96	42.85	54	-11.15

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode : 802.11n40 Test Date : 2015/11/10
Fundamental Frequency : 2422 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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
2389.08	S	Peak	64.46	6.62	71.07	74	-2.93
2389.08	S	Average	44.85	6.62	51.47	54	-2.53
2390.00	E	Peak	61.53	6.62	68.14	74	-5.86
2390.00	E	Average	45.14	6.62	51.76	54	-2.24

Operation Mode : 802.11n40 Test Date : 2015/11/10
Fundamental Frequency : 2422 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH Low Test Engineer : Pony
EUT Pol. : H 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
2389.08	S	Peak	53.93	6.62	60.55	74	-13.45
2389.08	S	Average	37.23	6.62	43.85	54	-10.15
2390.00	E	Peak	51.67	6.62	58.29	74	-15.71
2390.00	E	Average	37.45	6.62	44.07	54	-9.93

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Operation Mode : 802.11n40 Test Date : 2015/11/10
Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
			dB μ V	Level				
2483.50	E	Peak	64.41	6.96	71.38	74	-2.62	
2483.50	E	Average	46.02	6.96	52.98	54	-1.02	
2483.80	S	Peak	65.76	6.96	72.73	74	-1.27	
2483.80	S	Average	45.95	6.96	52.91	54	-1.09	

Operation Mode : 802.11n40 Test Date : 2015/11/10
Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
Operation Band : BE CH High Test Engineer : Pony
EUT Pol. : H 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
			dB μ V	Level				
2483.50	E	Peak	54.68	6.96	61.64	74	-12.36	
2483.50	E	Average	36.85	6.96	43.81	54	-10.19	
2484.30	S	Peak	55.79	6.97	62.76	74	-11.24	
2484.30	S	Average	36.61	6.97	43.58	54	-10.42	

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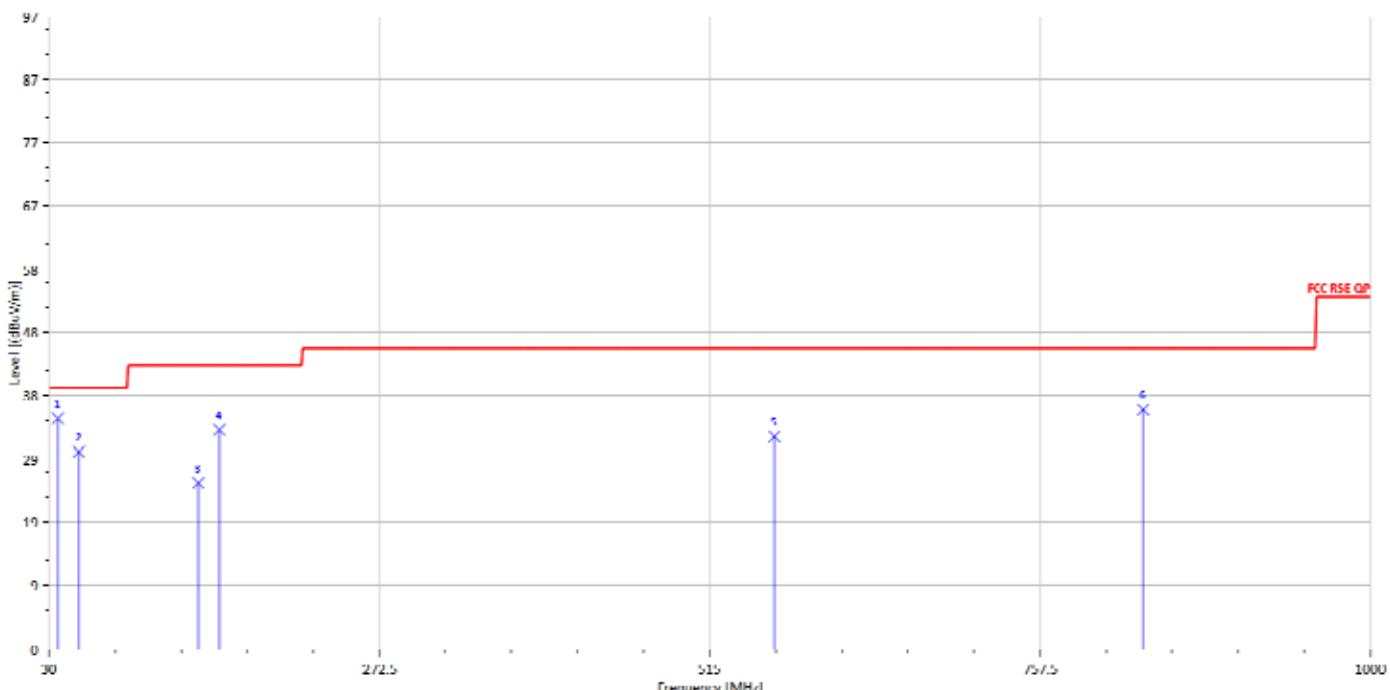
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Radiated Spurious Emission Measurement Result (802.11 g)

Below 1GHz Worst-Case Data:

Operation Mode :	802.11g	Test Date :	2015/11/13
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	23.9 deg_C/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



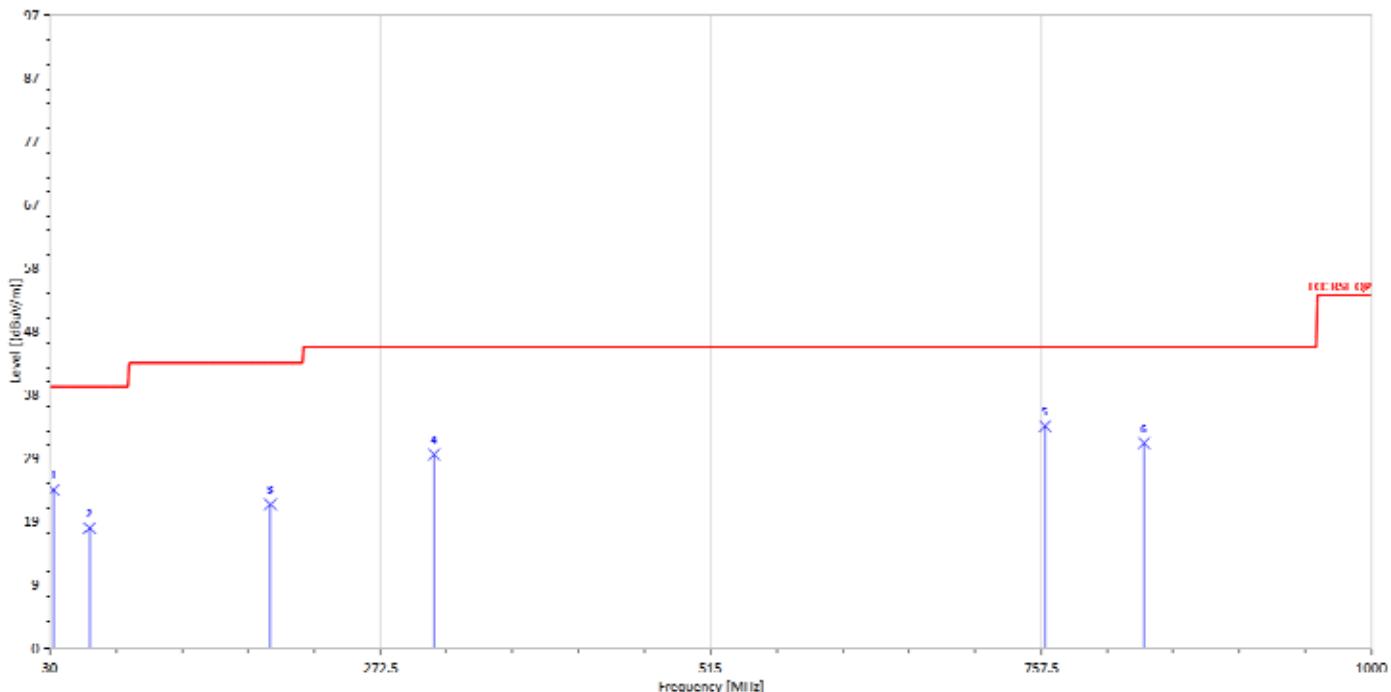
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
36.79	S	Peak	52.26	-16.96	35.30	40	-4.70
52.31	S	Peak	56.43	-26.23	30.20	40	-9.80
139.61	S	Peak	47.04	-21.63	25.41	43.5	-18.09
155.13	S	Peak	56.35	-22.82	33.53	43.5	-9.97
562.53	S	Peak	45.32	-12.81	32.51	46	-13.49
833.16	S	Peak	45.77	-9.10	36.67	46	-9.33

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Operation Mode : 802.11g Test Date : 2015/11/13
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H 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
32.91	S	Peak	38.85	-14.69	24.15	40	-15.85
59.10	S	Peak	46.49	-28.23	18.27	40	-21.73
191.99	S	Peak	45.92	-23.99	21.93	43.5	-21.57
312.27	S	Peak	48.16	-18.66	29.49	46	-16.51
760.41	S	Peak	43.86	-9.96	33.90	46	-12.10
833.16	S	Peak	40.35	-9.10	31.26	46	-14.74

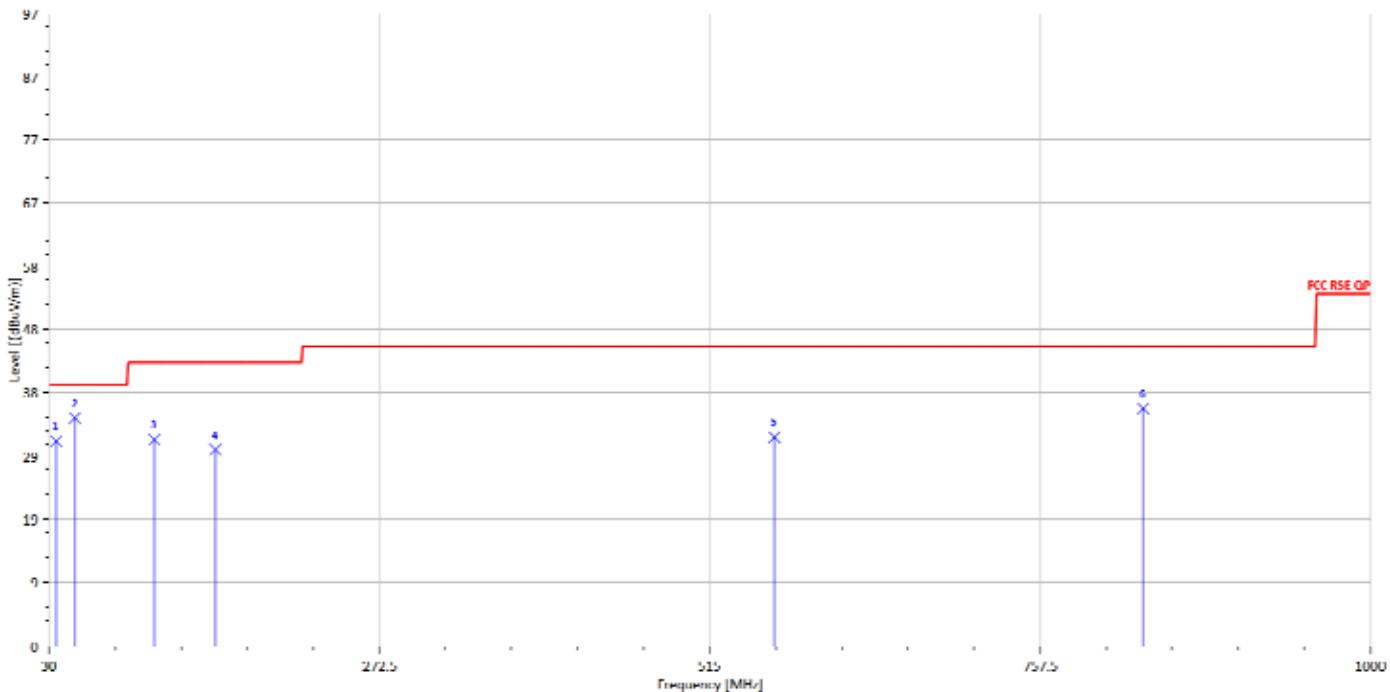
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Operation Mode : 802.11g Test Date : 2015/11/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
35.63	S	Peak	47.67	-16.22	31.45	40	-8.55
49.40	S	Peak	60.08	-25.16	34.92	40	-5.08
107.60	S	Peak	54.37	-22.68	31.69	43.5	-11.81
152.22	S	Peak	52.96	-22.82	30.14	43.5	-13.36
562.53	S	Peak	44.88	-12.81	32.07	46	-13.93
833.16	S	Peak	45.46	-9.10	36.37	46	-9.63

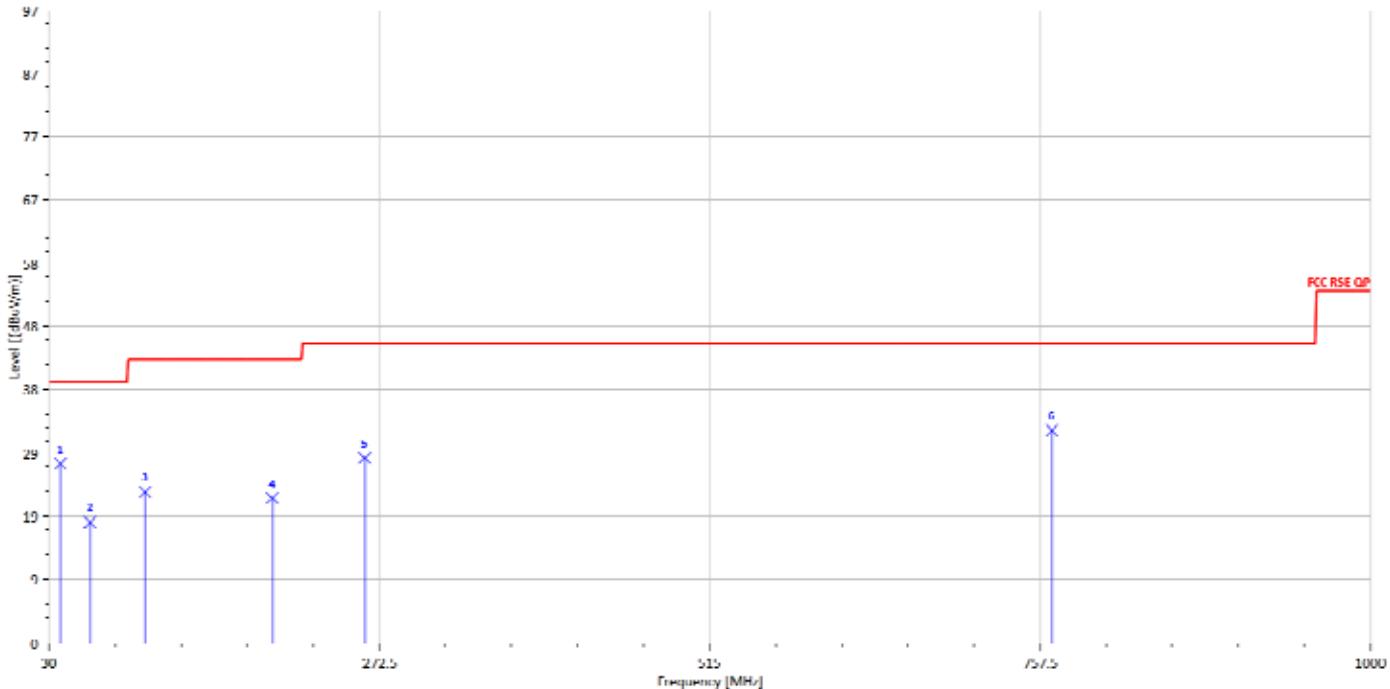
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Operation Mode : 802.11g Test Date : 2015/11/13
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
38.73	S	Peak	45.70	-18.19	27.51	40	-12.49
60.07	S	Peak	47.01	-28.50	18.51	40	-21.49
100.81	S	Peak	46.79	-23.69	23.10	43.5	-20.40
193.93	S	Peak	45.98	-23.82	22.16	43.5	-21.34
261.83	S	Peak	47.75	-19.37	28.38	46	-17.62
766.23	S	Peak	42.56	-9.96	32.60	46	-13.40

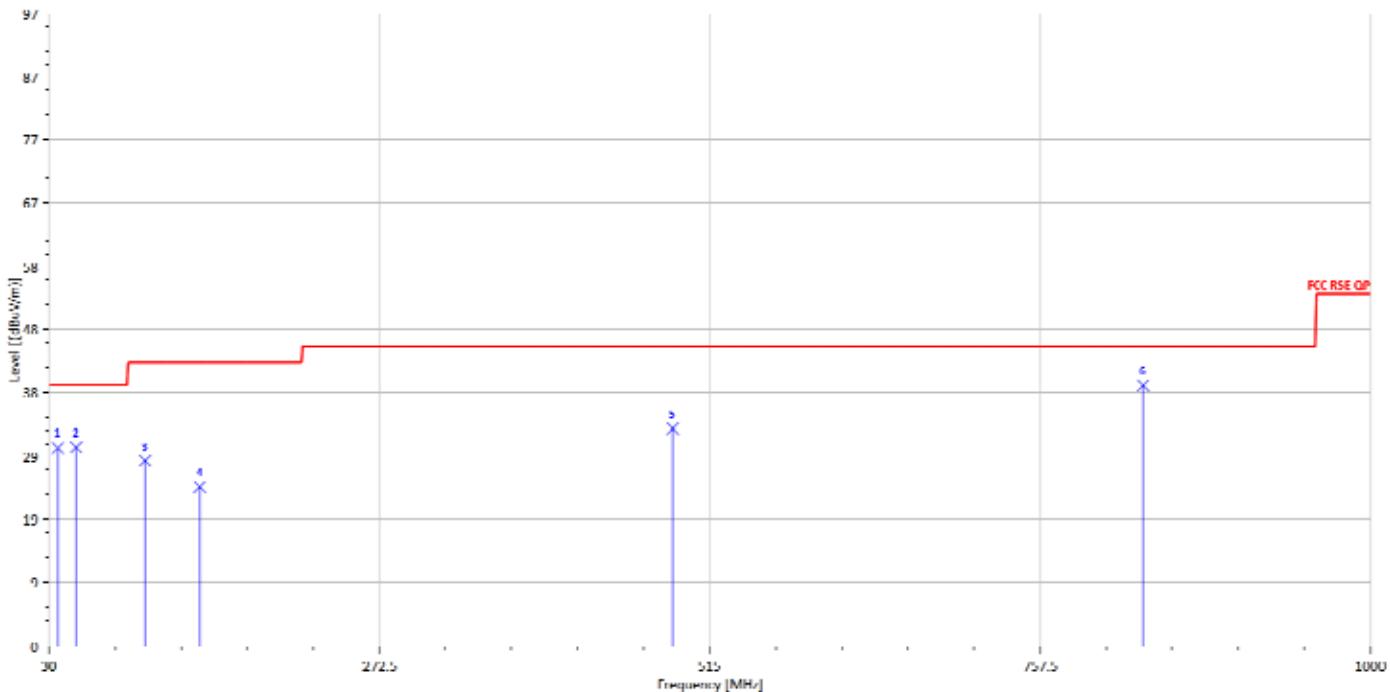
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Operation Mode : 802.11g Test Date : 2015/11/13
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



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
36.79	S	Peak	47.35	-16.96	30.39	40	-9.61
50.37	S	Peak	56.13	-25.65	30.48	40	-9.52
100.81	S	Peak	52.12	-23.69	28.43	43.5	-15.07
140.58	S	Peak	46.08	-21.70	24.38	43.5	-19.12
487.84	S	Peak	47.58	-14.25	33.33	46	-12.67
833.16	S	Peak	49.05	-9.10	39.95	46	-6.05

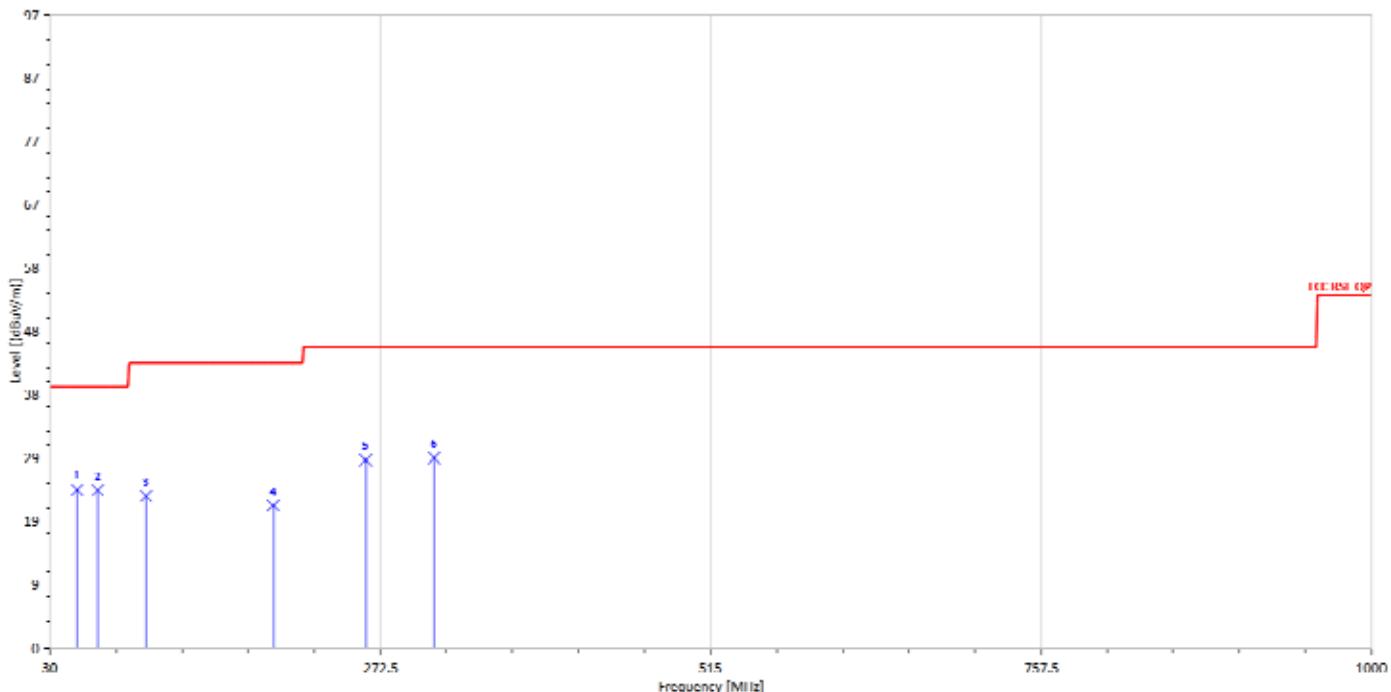
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Operation Mode : 802.11g Test Date : 2015/11/13
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



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
50.37	S	Peak	49.80	-25.65	24.15	40	-15.85
64.92	S	Peak	52.25	-28.16	24.10	40	-15.90
100.81	S	Peak	46.89	-23.69	23.20	43.5	-20.30
193.93	S	Peak	45.58	-23.82	21.76	43.5	-21.74
261.83	S	Peak	48.08	-19.37	28.71	46	-17.29
312.27	S	Peak	47.67	-18.66	29.01	46	-16.99

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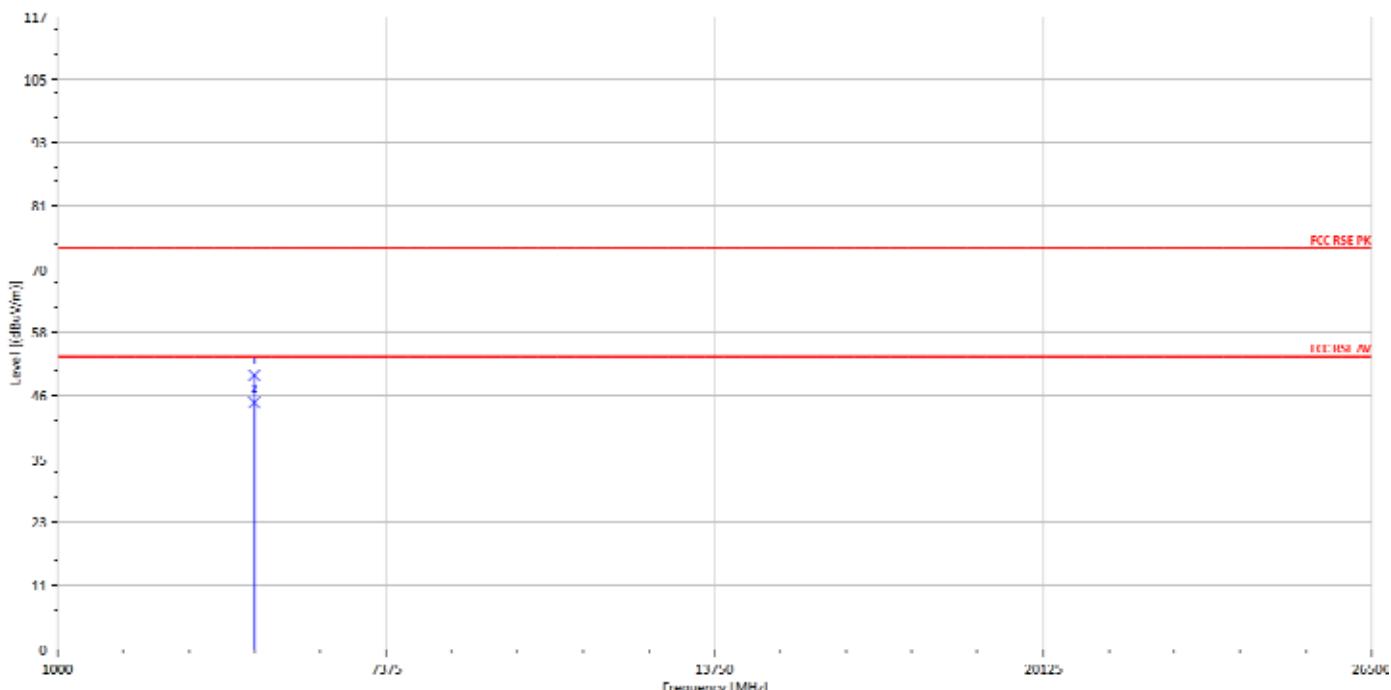
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Radiated Spurious Emission Measurement Result (802.11 b)

Above 1GHz Worst-Case Data:

Operation Mode :	802.11b	Test Date :	2015/11/11
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	23.9 deg_C/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Pony
EUT Pol. :	H	Measurement Antenna Pol. :	Vertical



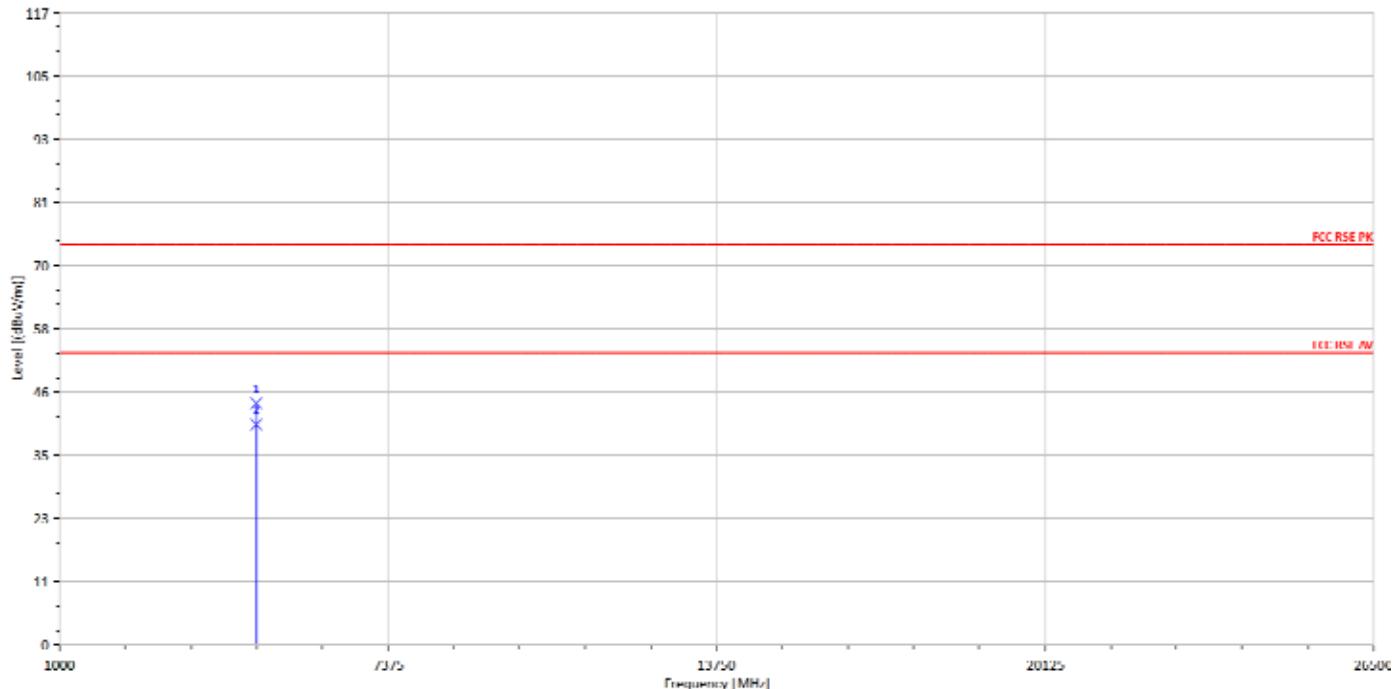
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	39.67	10.97	50.64	74	-23.36
4824.00	H	Average	34.56	10.97	45.53	54	-8.47

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Operation Mode : 802.11b Test Date : 2015/11/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



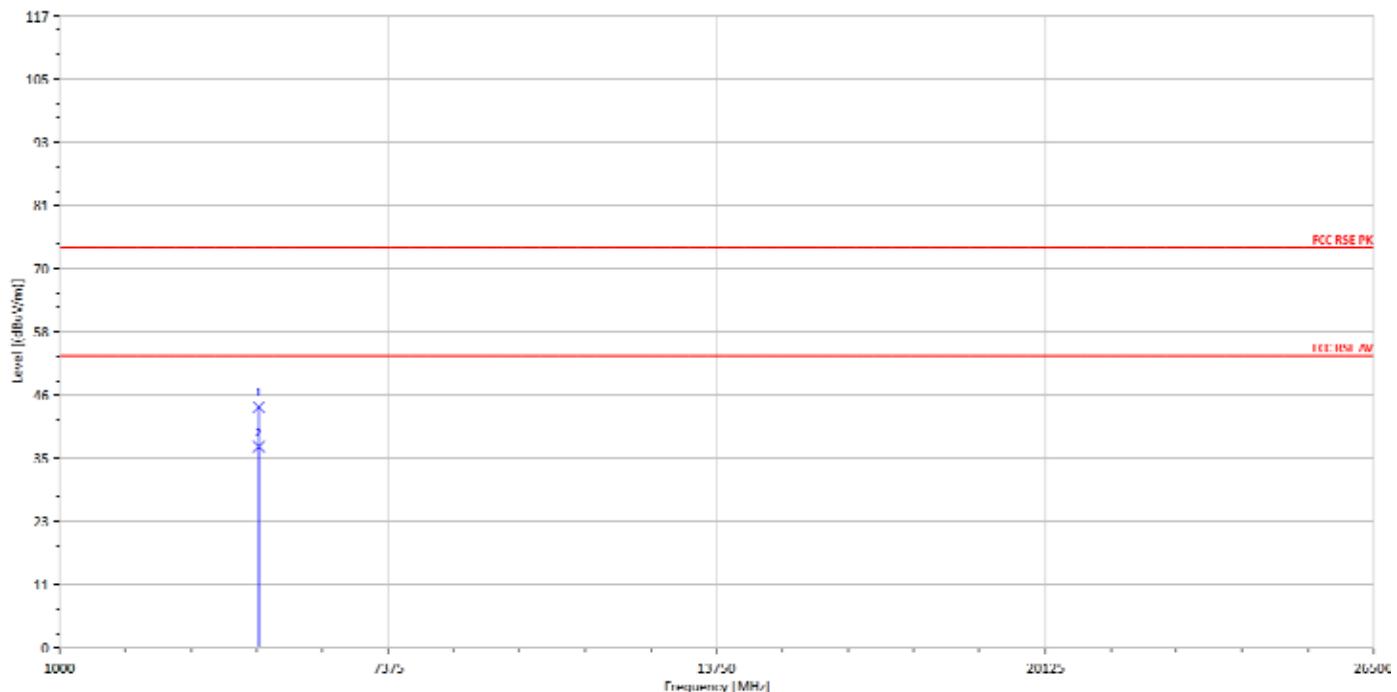
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	33.76	10.97	44.73	74	-29.27
4824.00	H	Average	29.80	10.97	40.77	54	-13.23

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Operation Mode : 802.11b Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



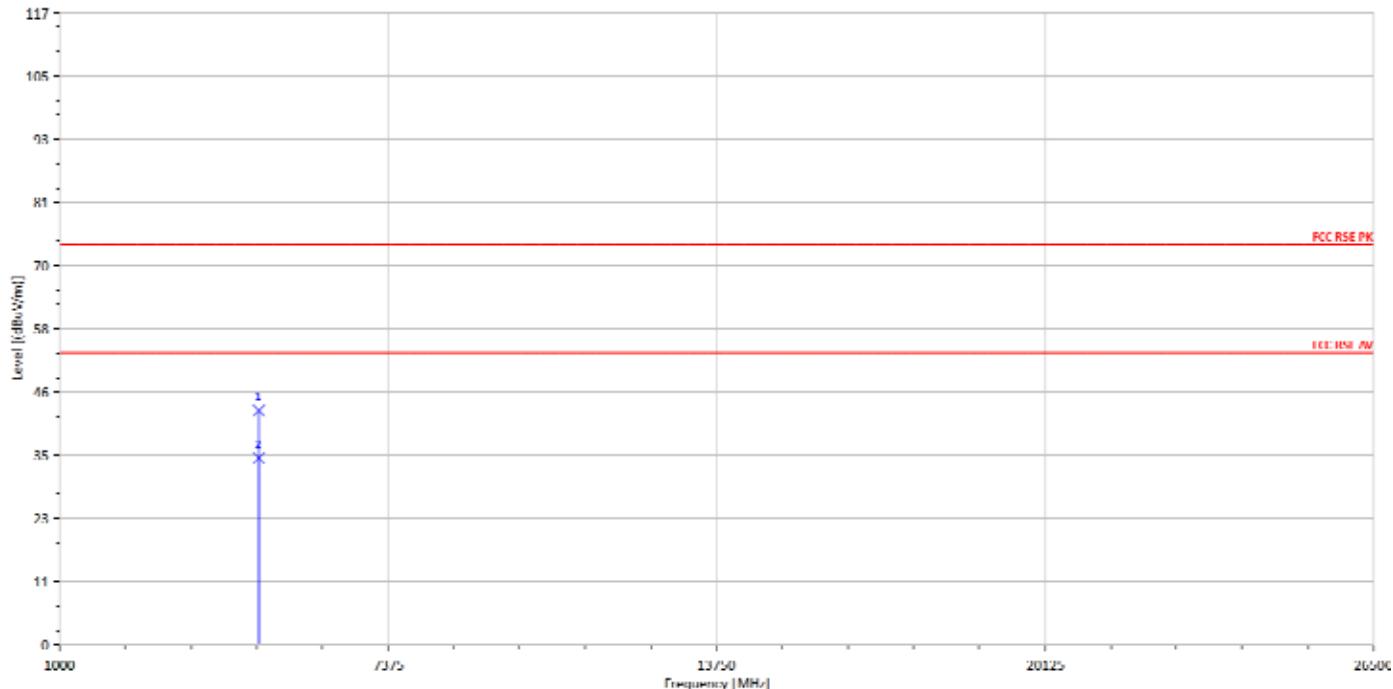
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	33.69	10.89	44.58	74	-29.42
4874.00	H	Average	26.29	10.89	37.18	54	-16.82

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Operation Mode : 802.11b Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



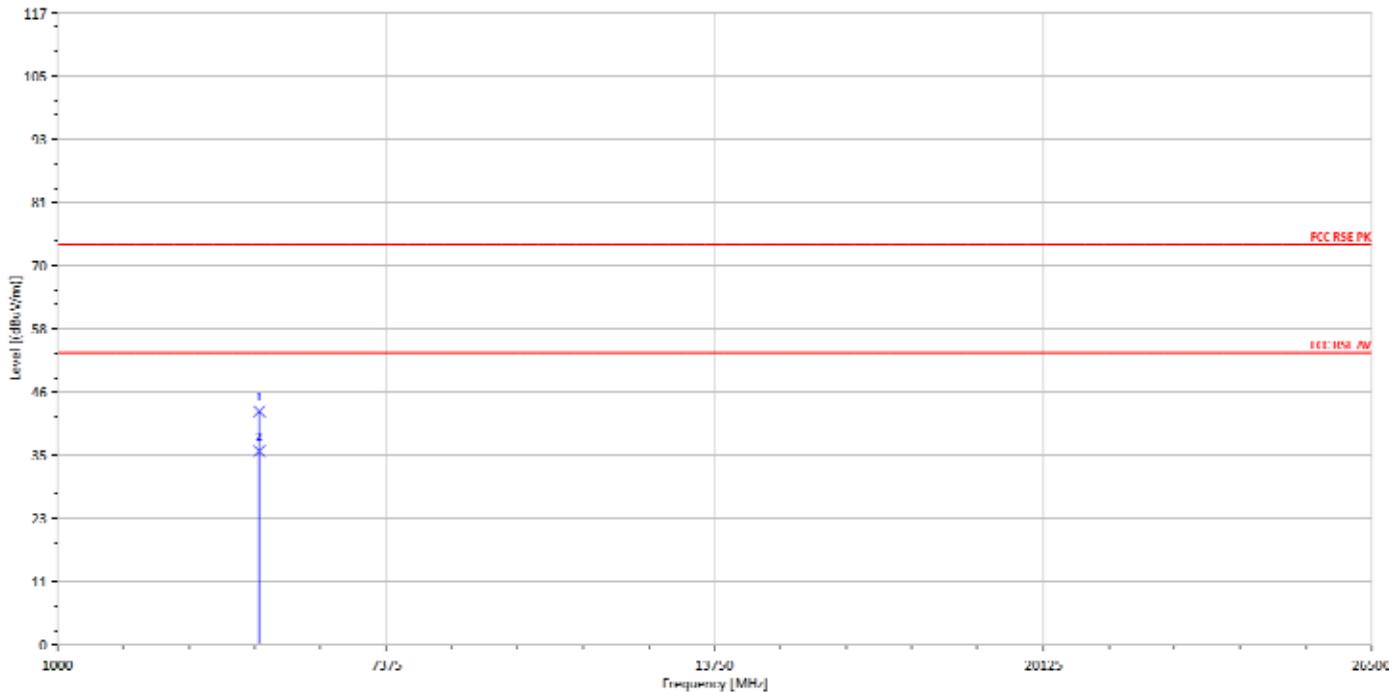
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	32.47	10.89	43.36	74	-30.64
4874.00	H	Average	23.59	10.89	34.48	54	-19.52

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Operation Mode : 802.11b Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



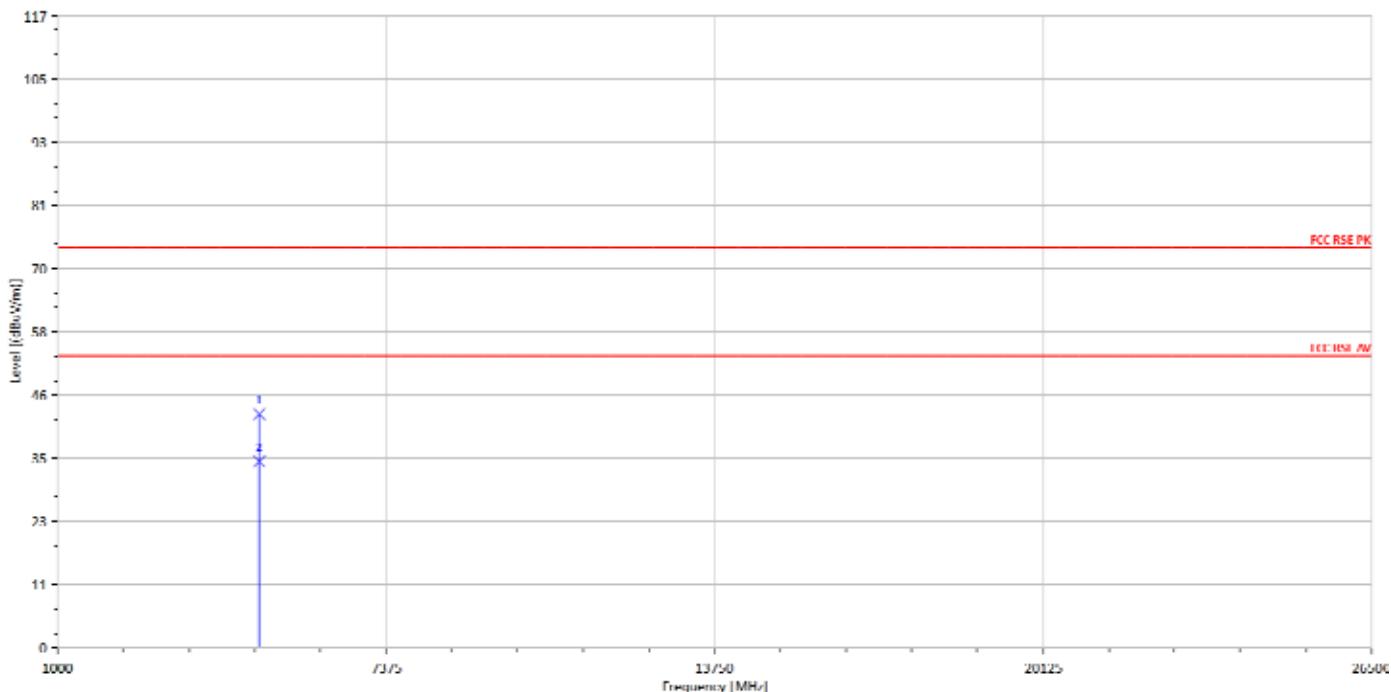
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	32.24	10.98	43.21	74	-30.79
4924.00	H	Average	24.80	10.98	35.78	54	-18.22

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Operation Mode : 802.11b Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H 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	32.28	10.98	43.26	74	-30.74
4924.00	H	Average	23.42	10.98	34.40	54	-19.60

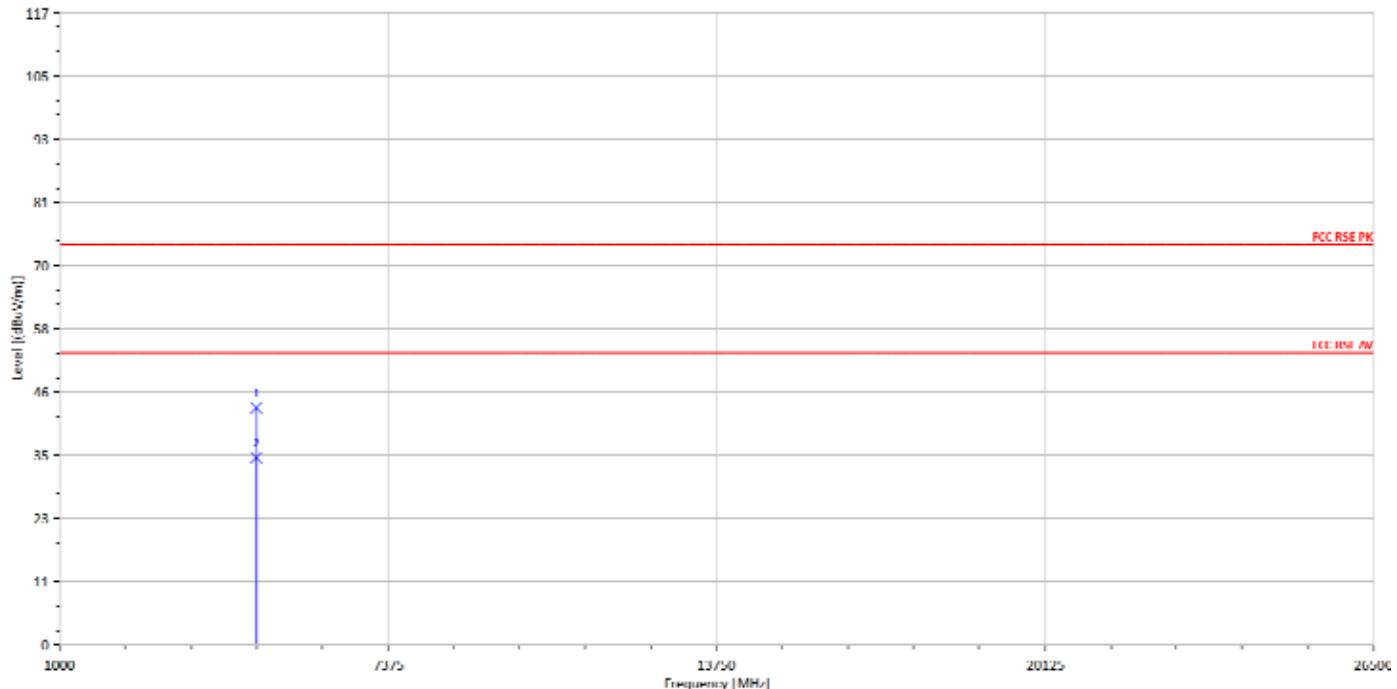
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



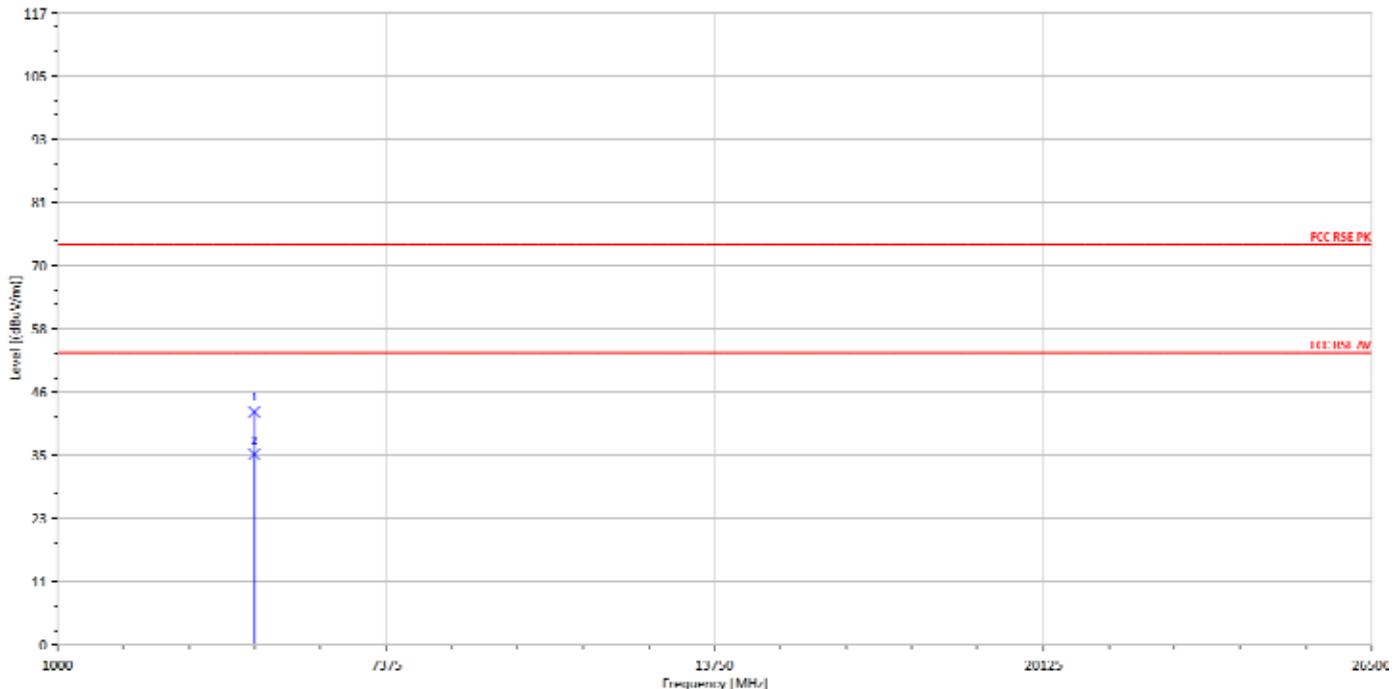
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	32.93	10.97	43.90	74	-30.10
4824.00	H	Average	23.59	10.97	34.56	54	-19.44

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Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



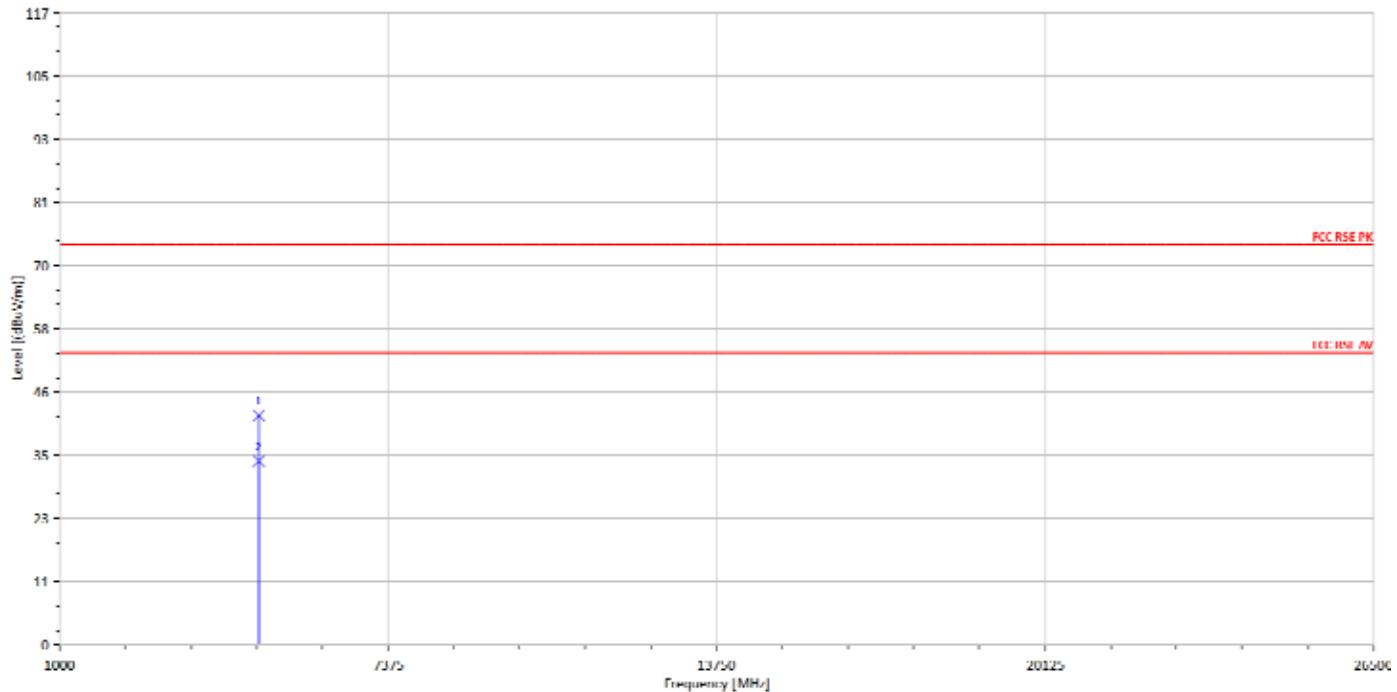
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	32.13	10.97	43.10	74	-30.90
4824.00	H	Average	24.21	10.97	35.18	54	-18.82

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Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



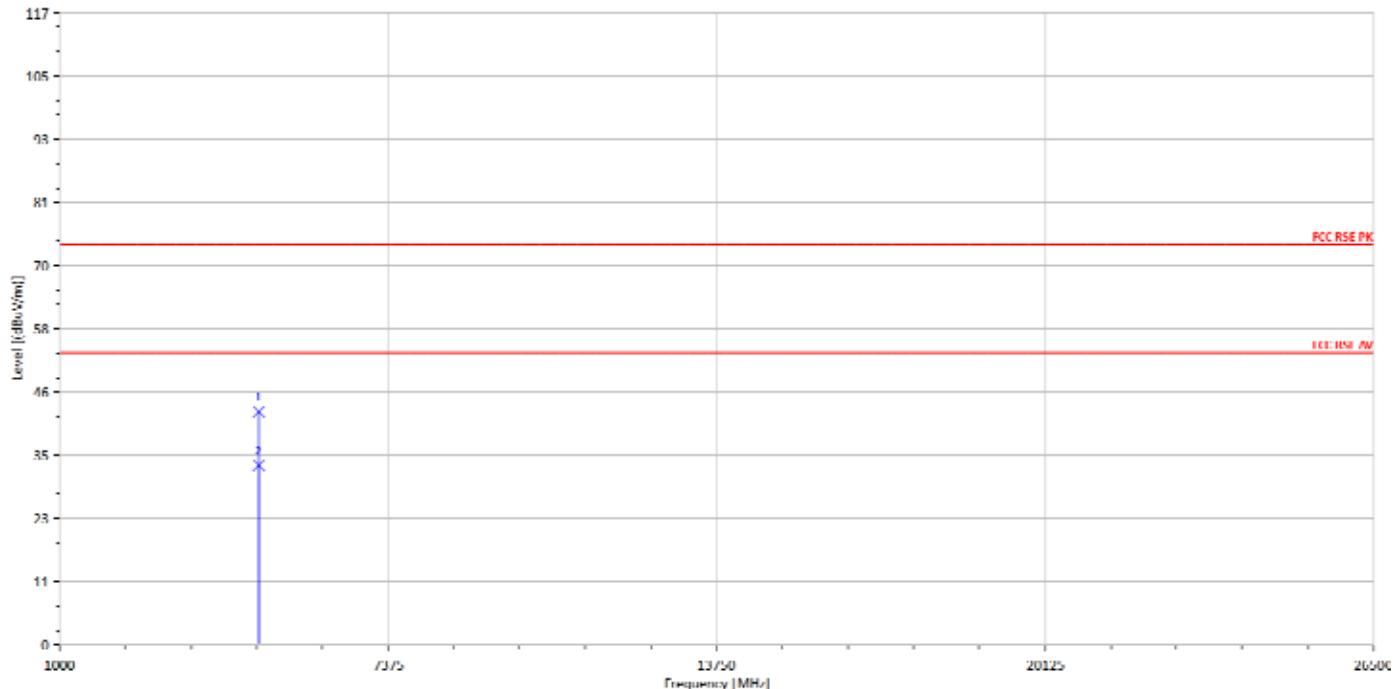
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.55	10.89	42.44	74	-31.56
4874.00	H	Average	23.05	10.89	33.94	54	-20.06

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Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



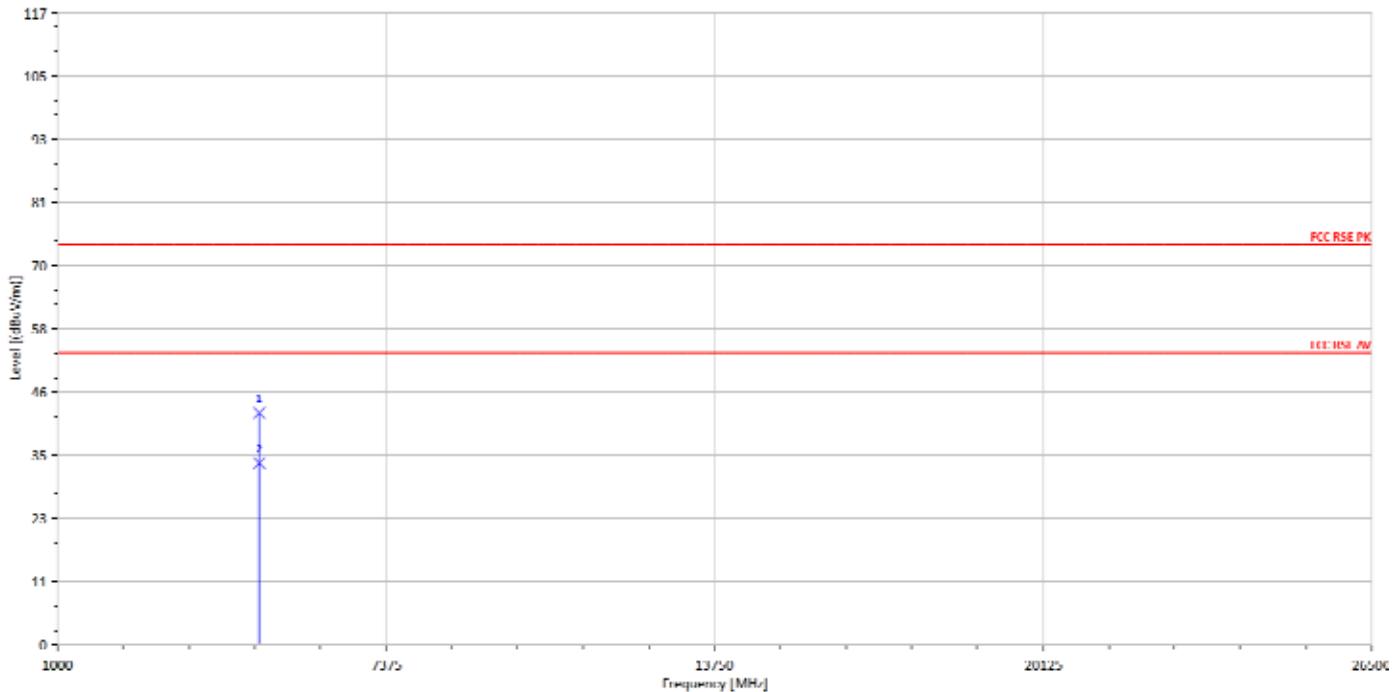
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	32.27	10.89	43.16	74	-30.84
4874.00	H	Average	22.24	10.89	33.13	54	-20.87

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Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



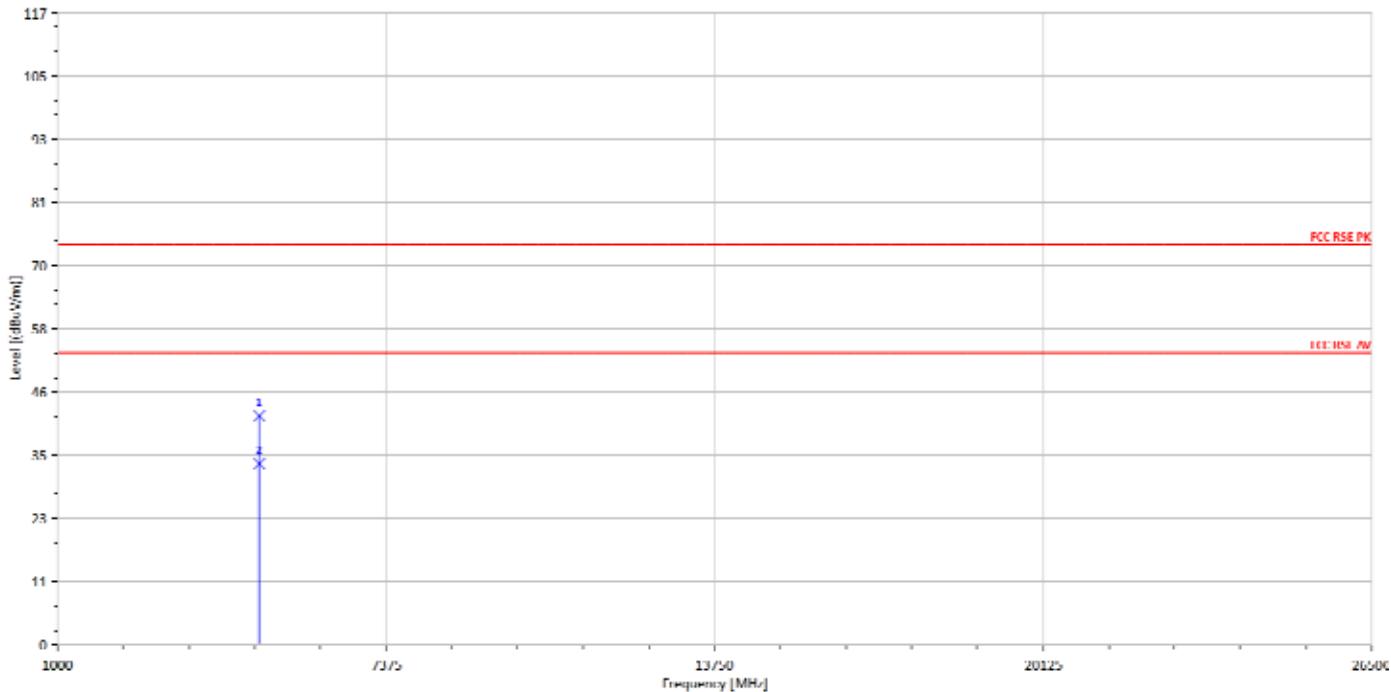
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	31.95	10.98	42.93	74	-31.07
4924.00	H	Average	22.57	10.98	33.55	54	-20.45

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Operation Mode : 802.11g Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C / 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H 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	31.39	10.98	42.37	74	-31.63
4924.00	H	Average	22.42	10.98	33.40	54	-20.60

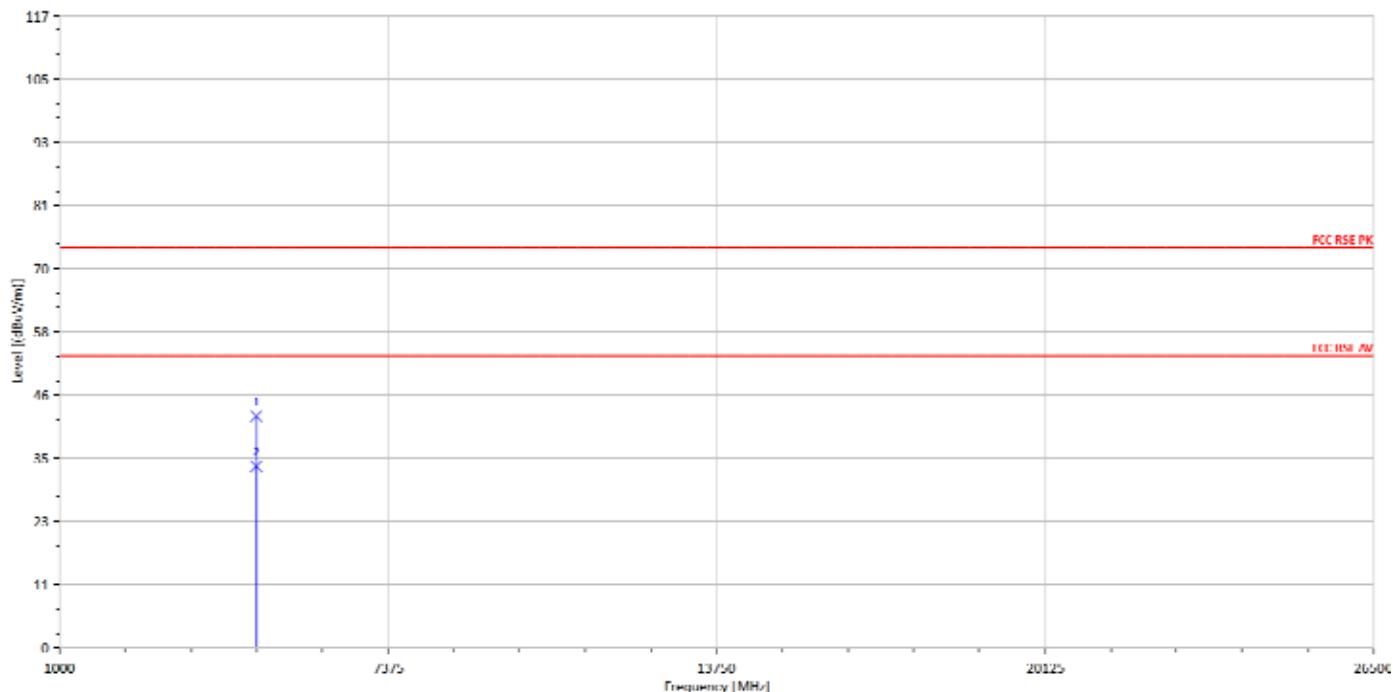
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



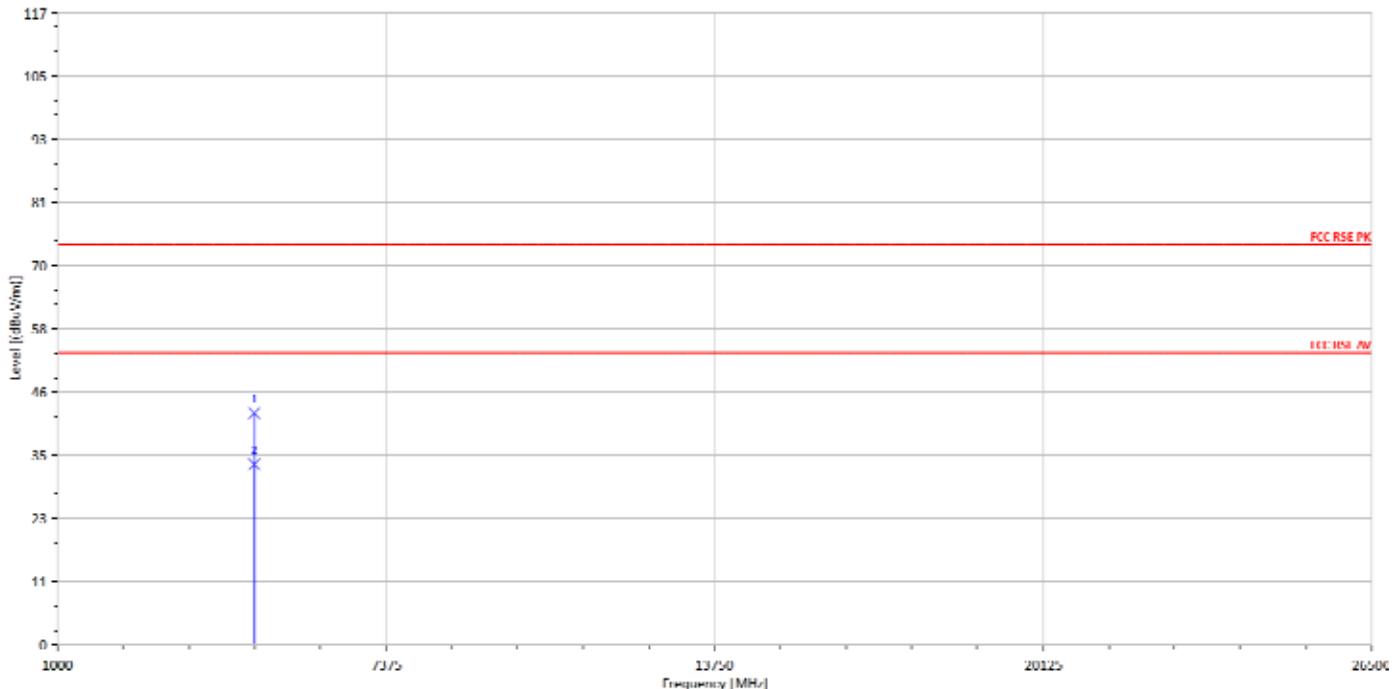
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	31.91	10.97	42.88	74	-31.12
4824.00	H	Average	22.54	10.97	33.51	54	-20.49

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Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



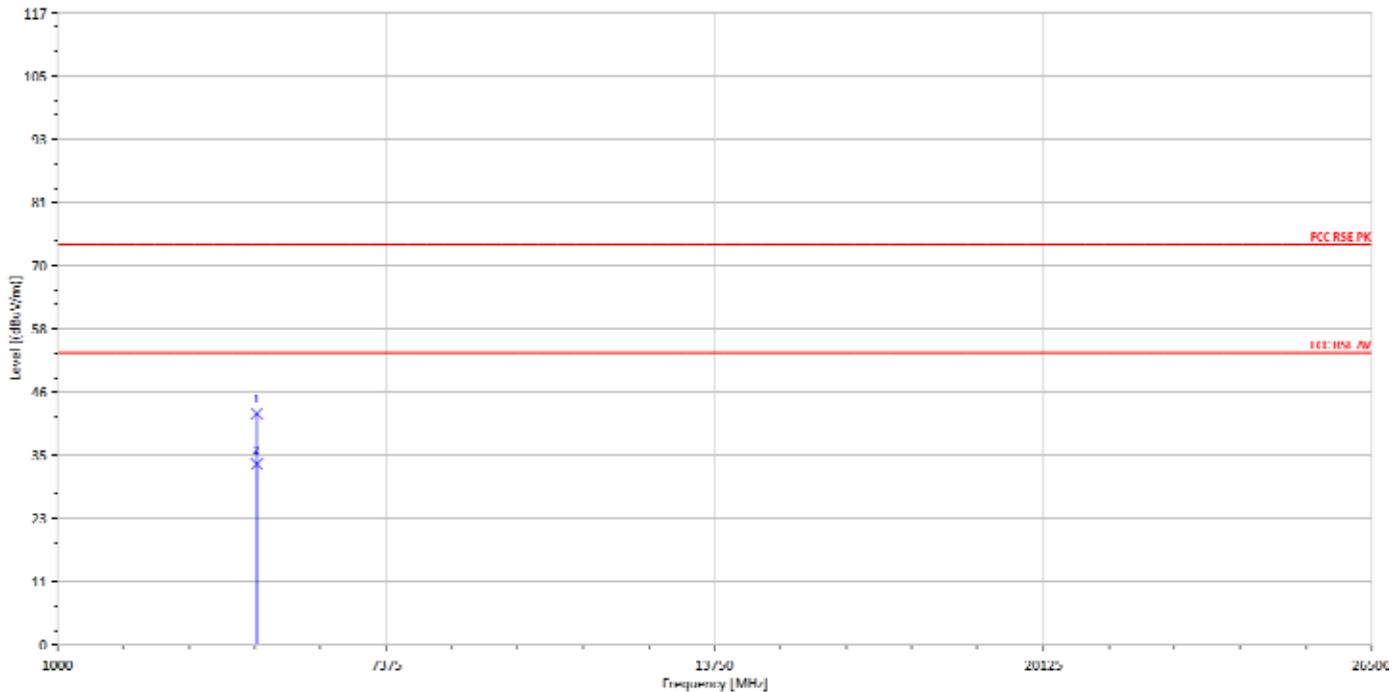
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	H	Peak	31.92	10.97	42.89	74	-31.11
4824.00	H	Average	22.34	10.97	33.31	54	-20.69

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Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



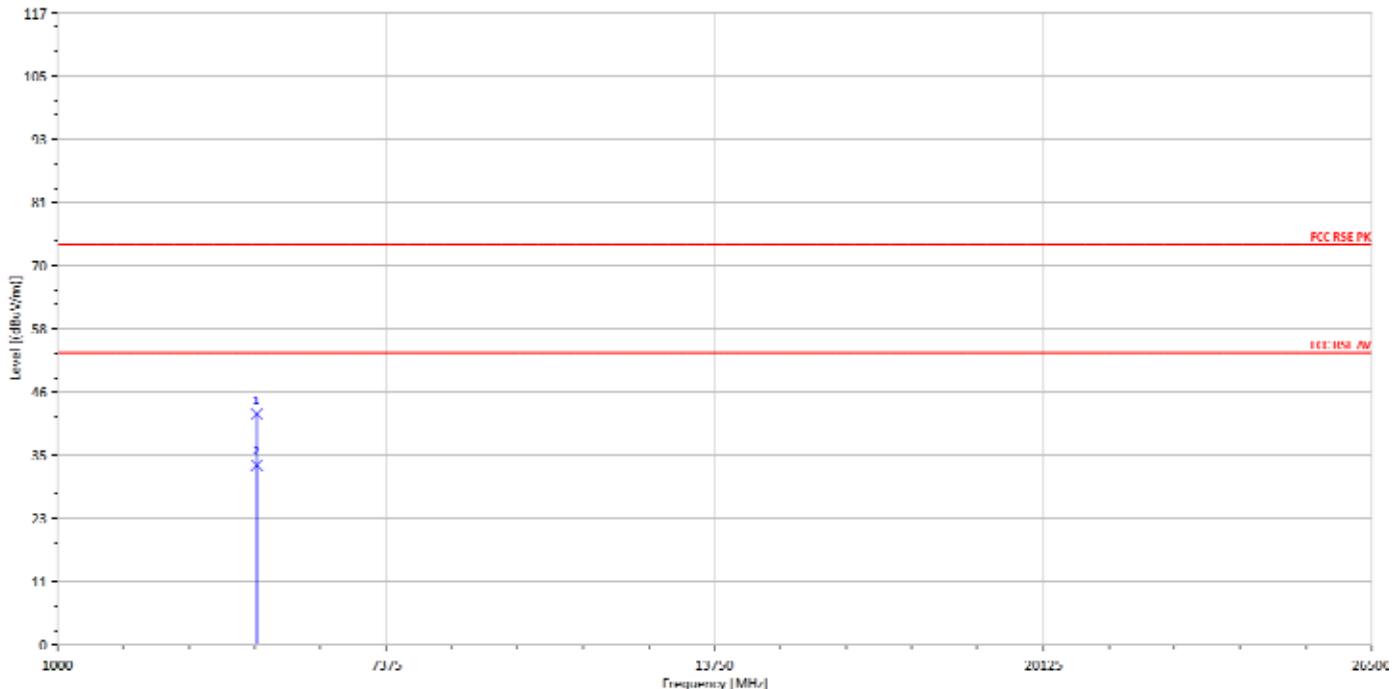
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.89	10.89	42.78	74	-31.22
4874.00	H	Average	22.46	10.89	33.35	54	-20.65

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Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



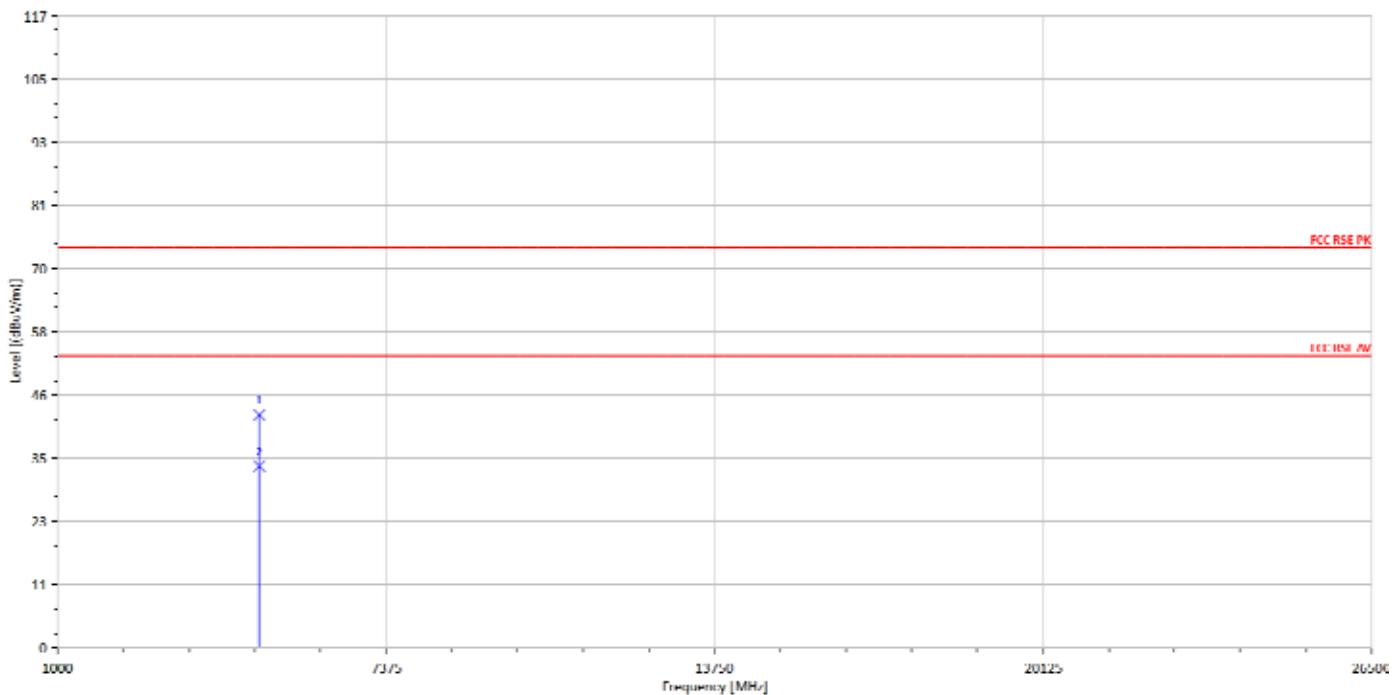
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.89	10.89	42.78	74	-31.22
4874.00	H	Average	22.46	10.89	33.35	54	-20.65

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Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



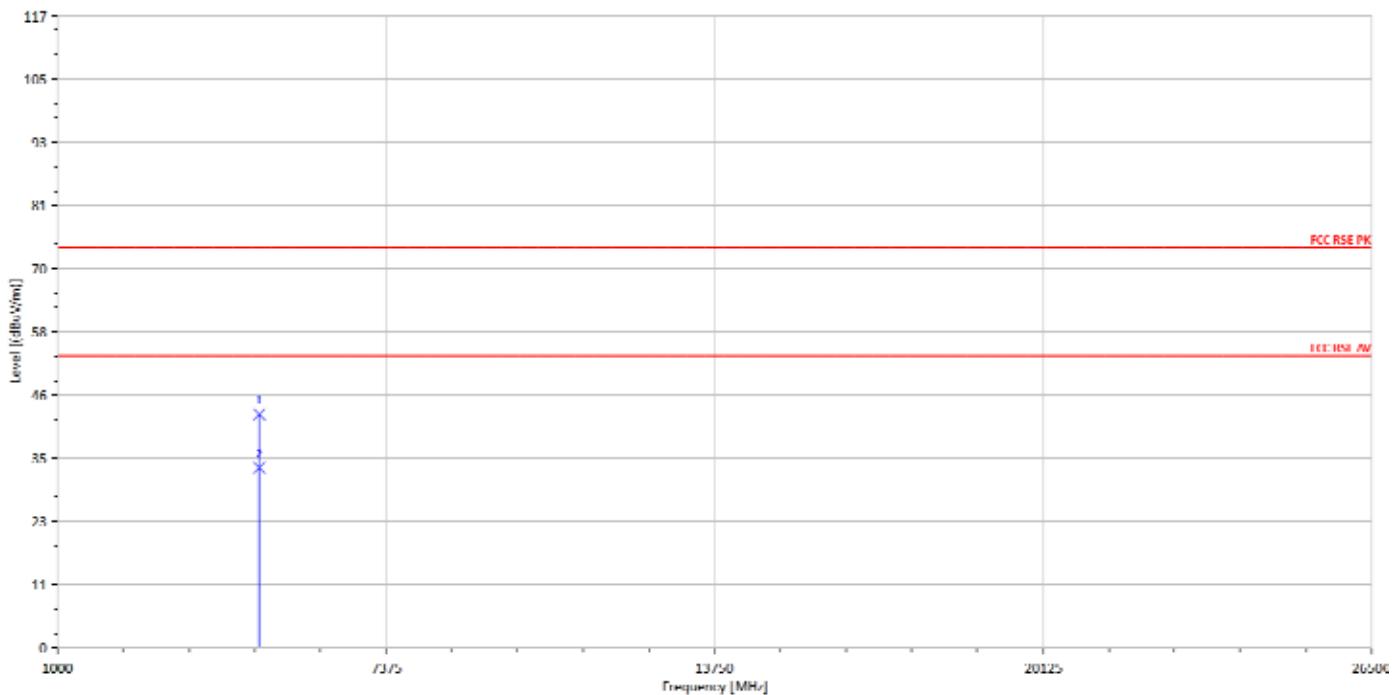
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	H	Peak	32.13	10.98	43.10	74	-30.90
4924.00	H	Average	22.57	10.98	33.55	54	-20.45

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Operation Mode : 802.11n20 Test Date : 2015/11/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H 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	32.23	10.98	43.21	74	-30.79
4924.00	H	Average	22.25	10.98	33.23	54	-20.77

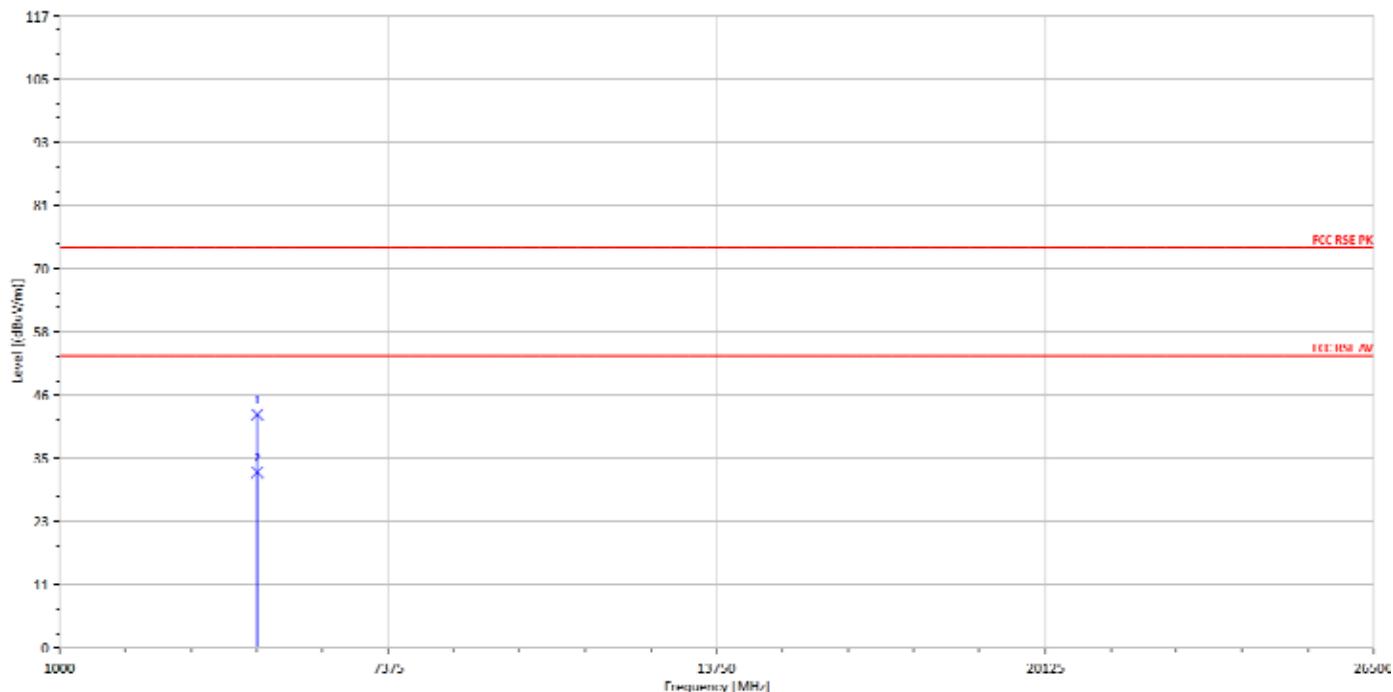
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



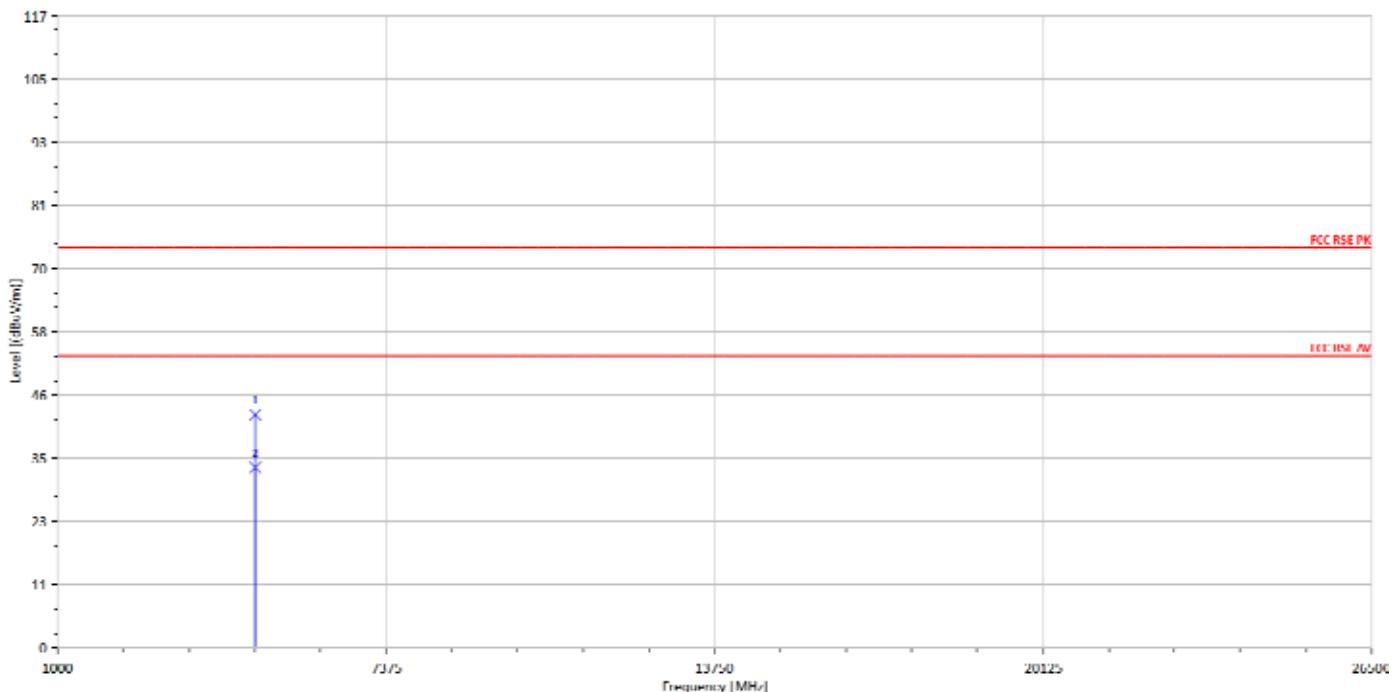
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	H	Peak	32.25	10.93	43.18	74	-30.82
4844.00	H	Average	21.47	10.93	32.40	54	-21.60

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Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Horizontal



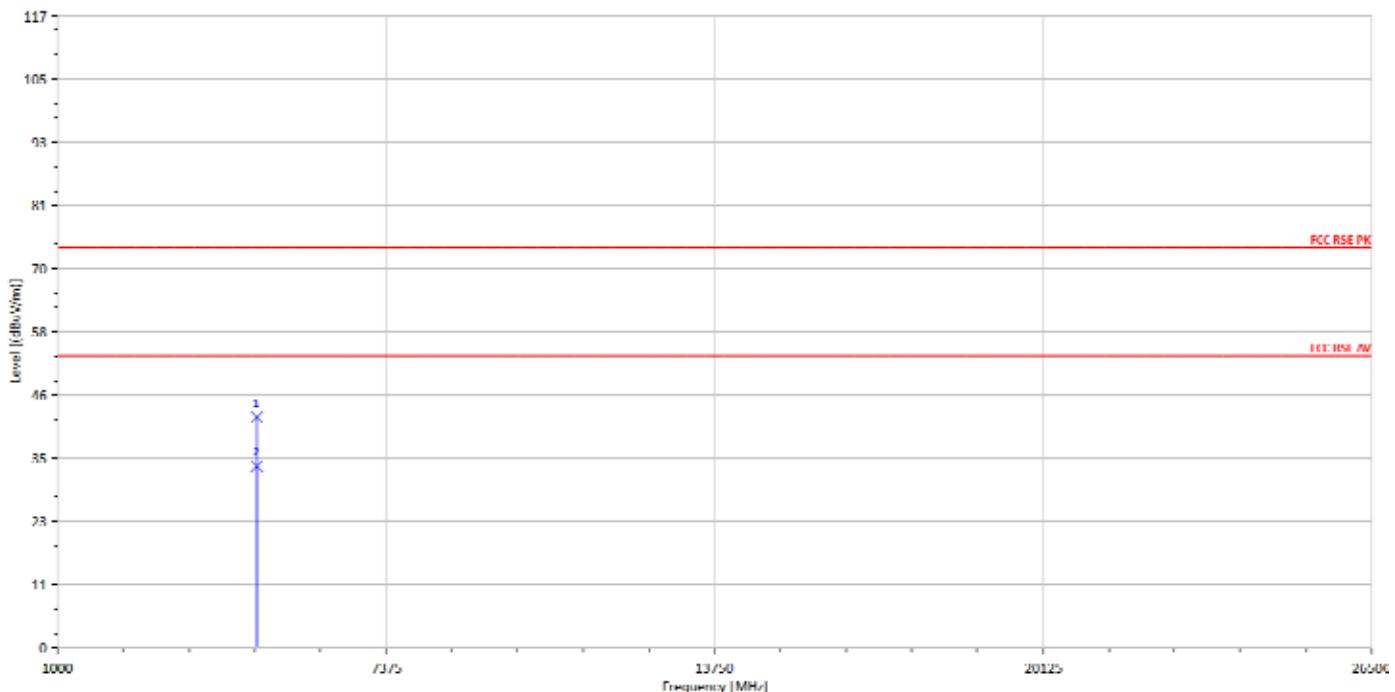
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	H	Peak	32.21	10.93	43.14	74	-30.86
4844.00	H	Average	22.34	10.93	33.27	54	-20.73

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Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



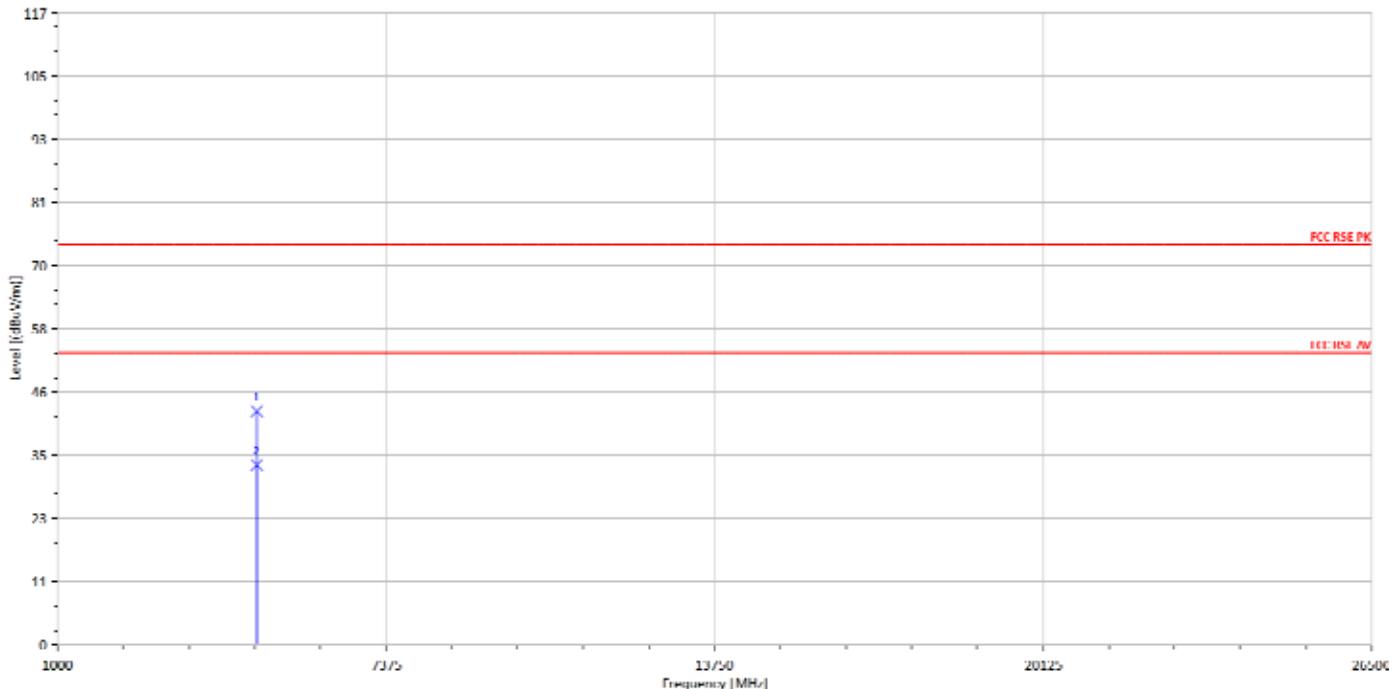
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.80	10.89	42.69	74	-31.31
4874.00	H	Average	22.62	10.89	33.51	54	-20.49

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Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



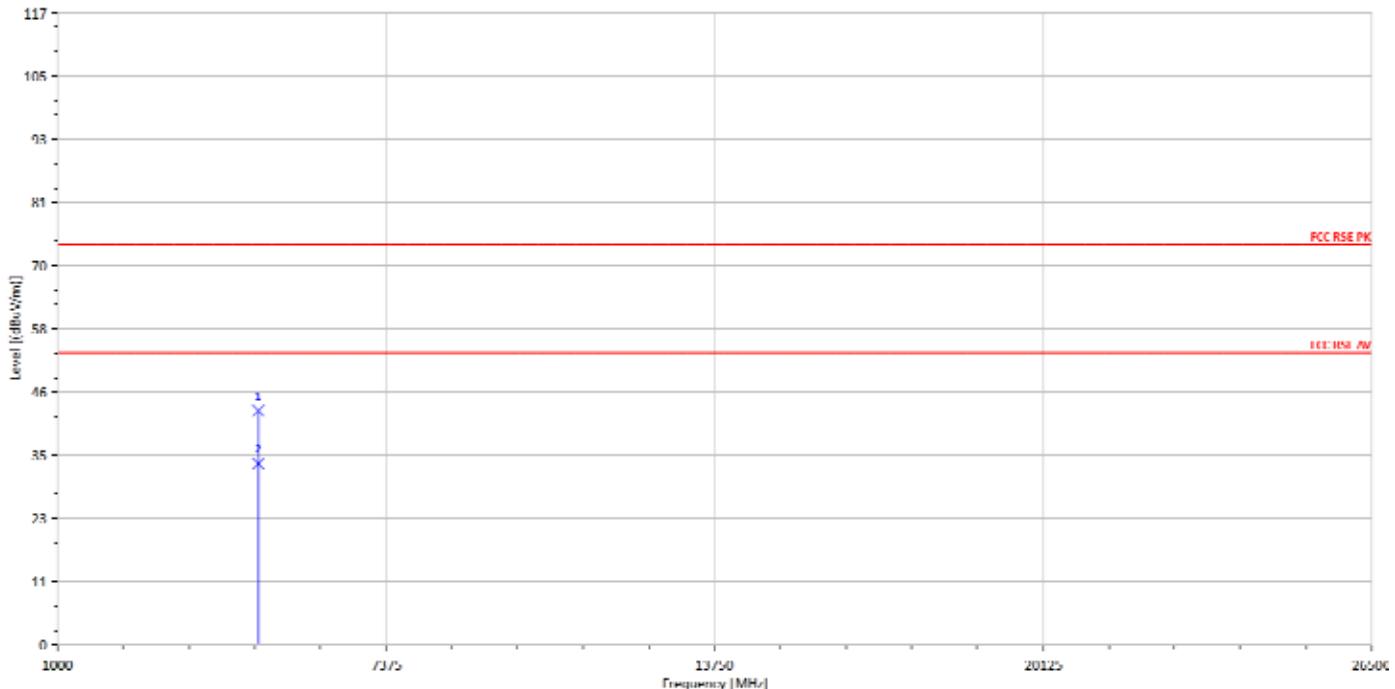
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	H	Peak	31.80	10.89	42.69	74	-31.31
4874.00	H	Average	22.62	10.89	33.51	54	-20.49

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Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H Measurement Antenna Pol. : Vertical



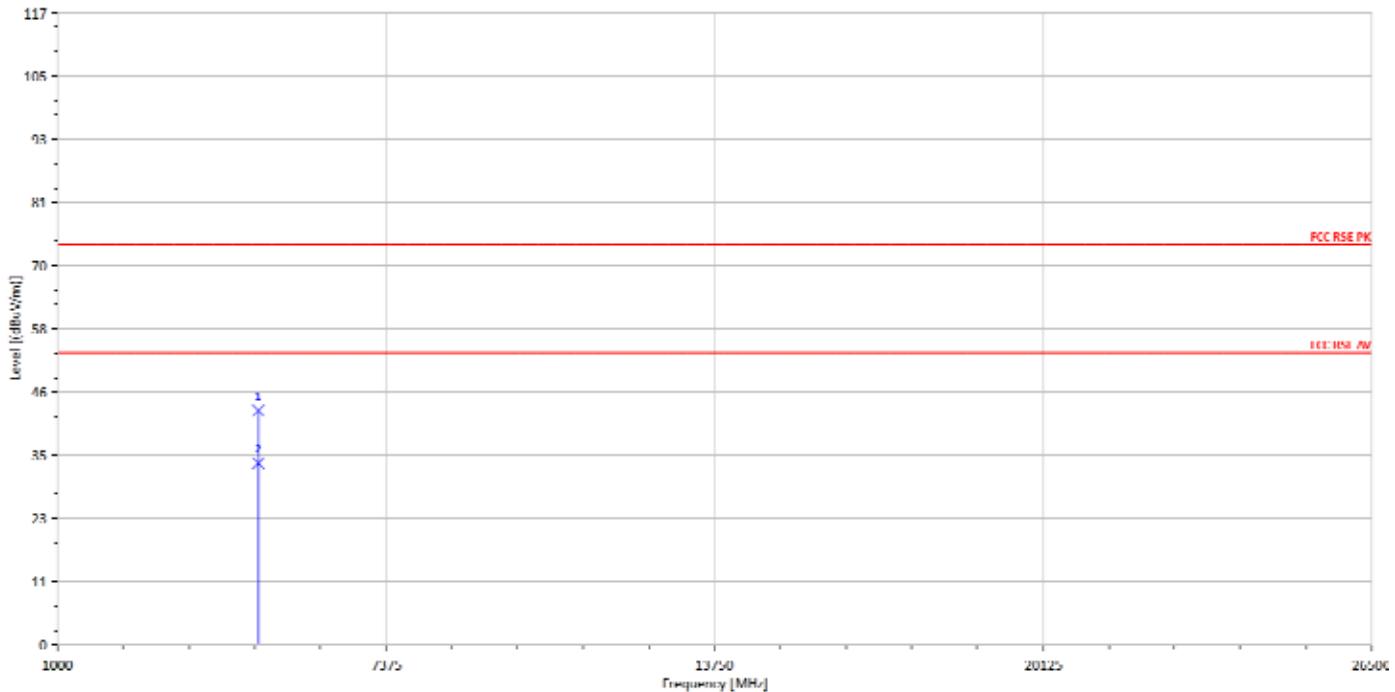
Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4904.00	H	Peak	32.37	10.98	43.35	74	-30.65
4904.00	H	Average	22.45	10.98	33.43	54	-20.57

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Operation Mode : 802.11n40 Test Date : 2015/11/11
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 23.9 deg_C/ 62 RH
 Operation Band : Tx CH High Test Engineer : Pony
 EUT Pol. : H 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
4904.00	H	Peak	32.39	10.98	43.36	74	-30.64
4904.00	H	Average	22.54	10.98	33.52	54	-20.48

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12 PEAK POWER SPECTRAL DENSITY

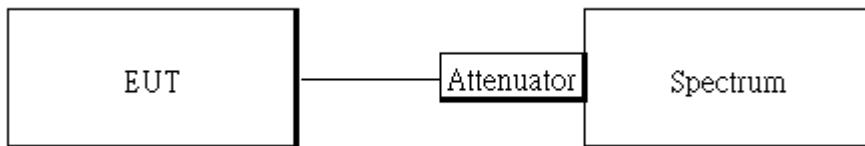
12.1 Standard Applicable

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	PASTERNAK	PE8210	RF29	12/19/2014	12/18/2015
Attenuator	WOKEN	218FS-10	RF23	12/19/2014	12/18/2015

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 V03r03.
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.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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12.5 Measurement Result

802.11b

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-15.58	8	PASS
2437	-15.56	8	PASS
2462	-15.68	8	PASS

802.11g

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-14.02	8	PASS
2437	-14.18	8	PASS
2462	-14.78	8	PASS

802.11n_20M

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-13.54	8	PASS
2437	-14.31	8	PASS
2462	-15.44	8	PASS

802.11n_40M

Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-17.2	8	PASS
2437	-15.52	8	PASS
2452	-17.29	8	PASS

*Refer to next page for plots

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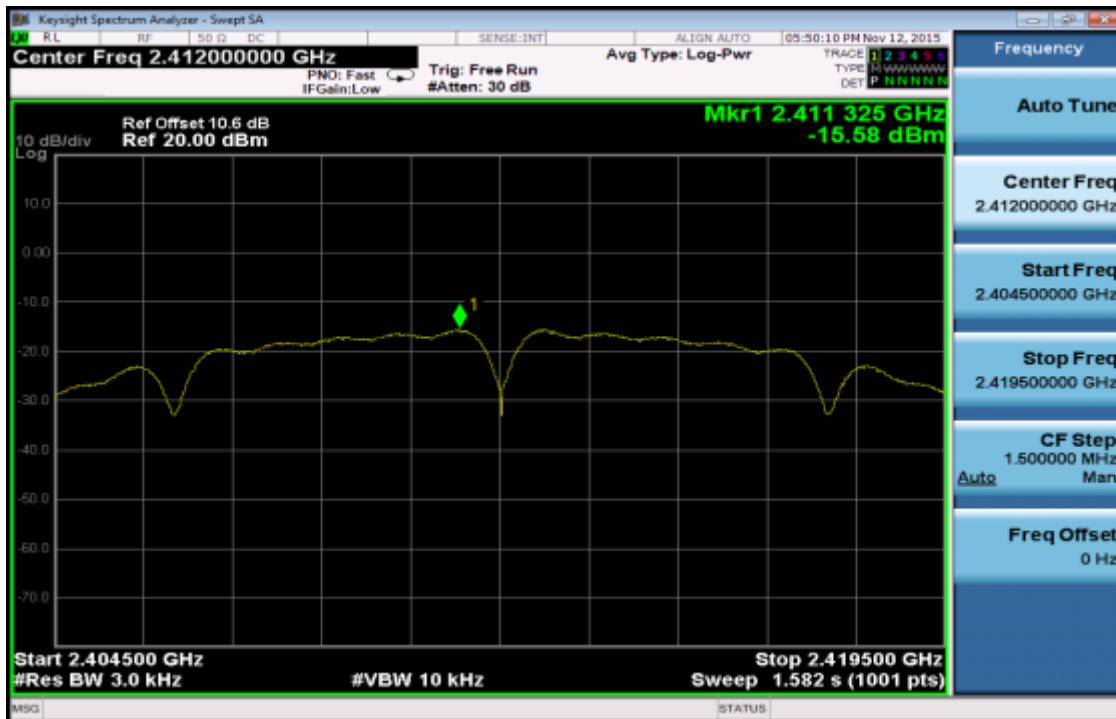
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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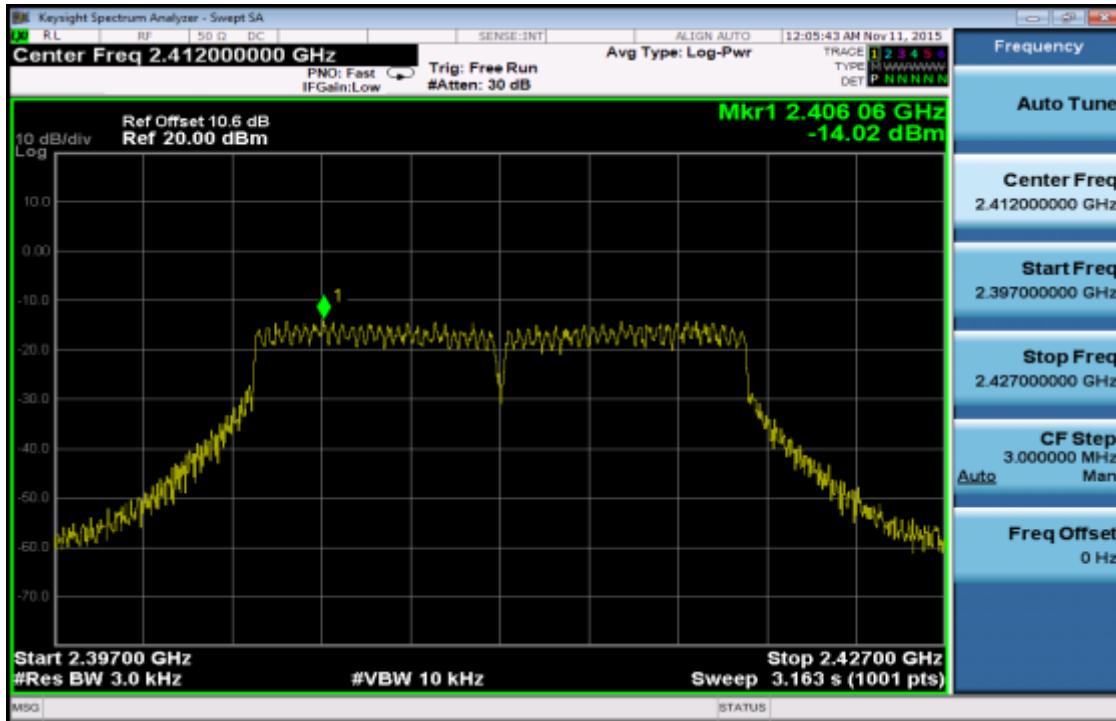
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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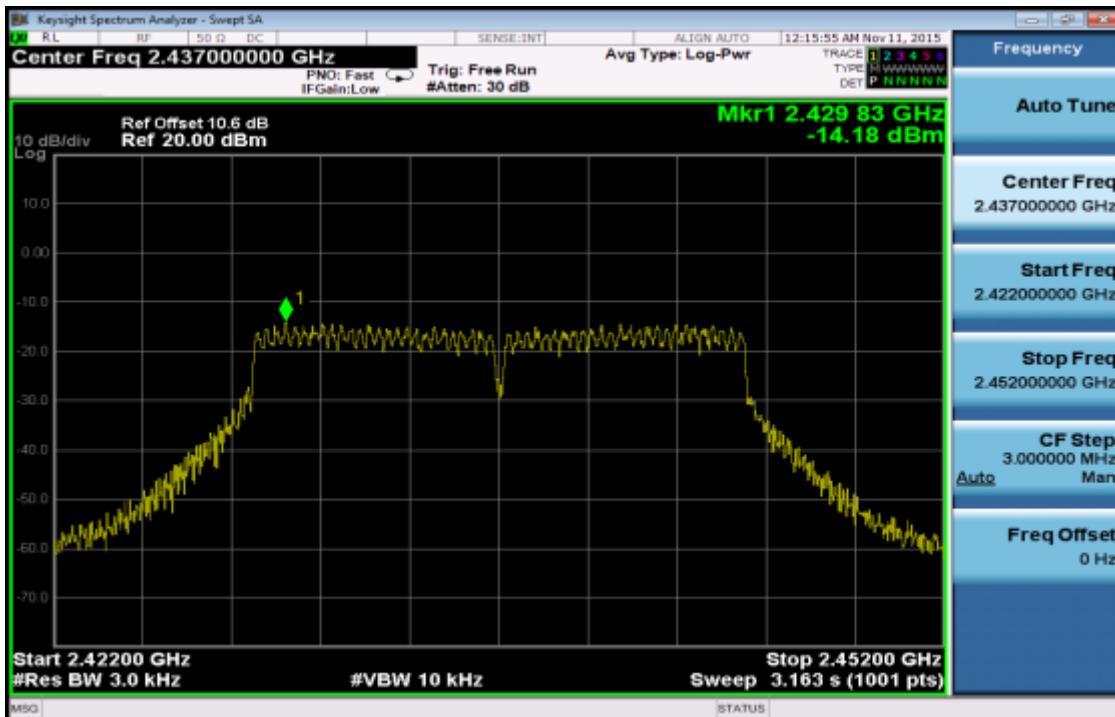
t (886-2) 2299-3279

f (886-2) 2298-0488

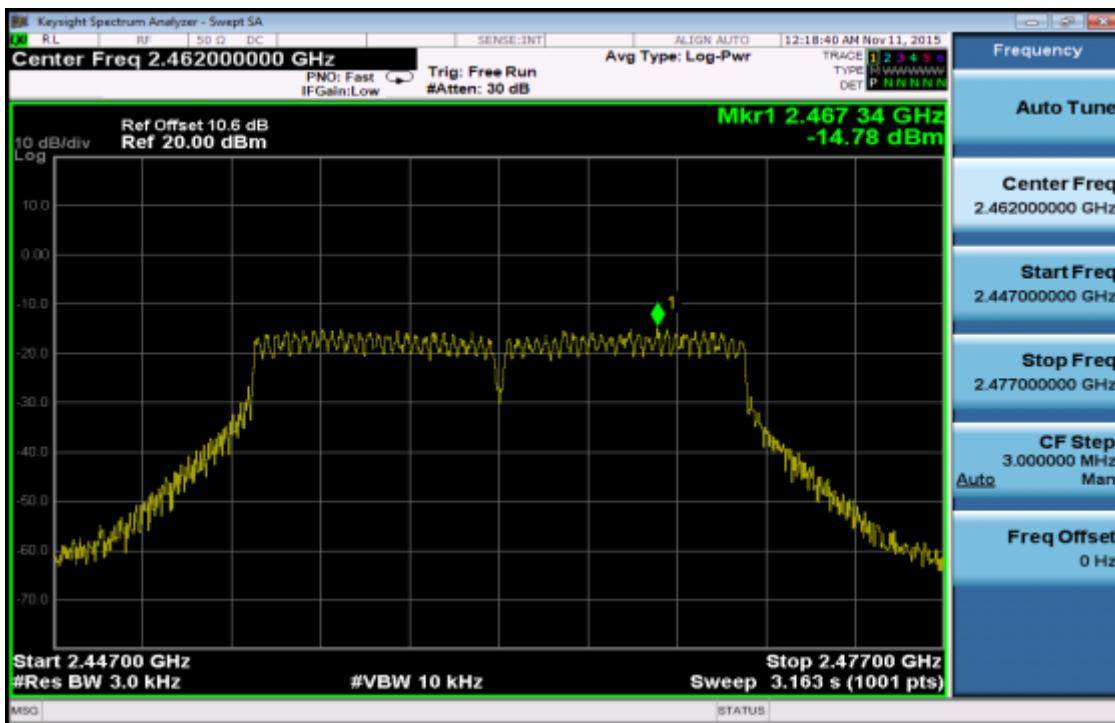
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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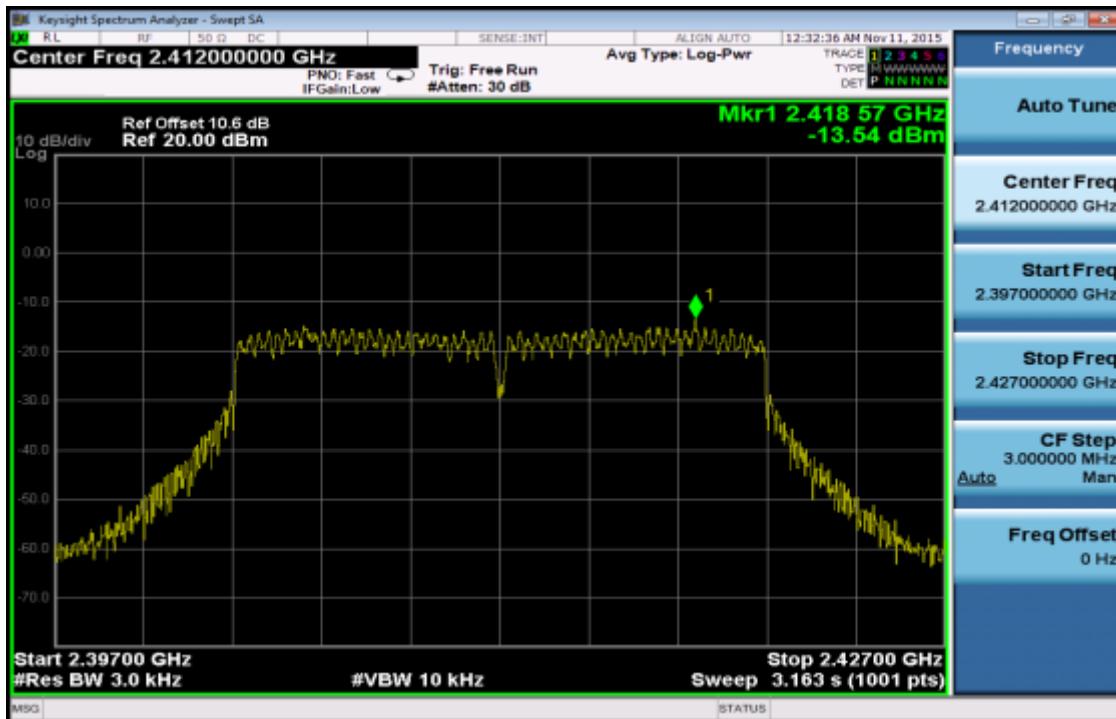
f (886-2) 2298-0488

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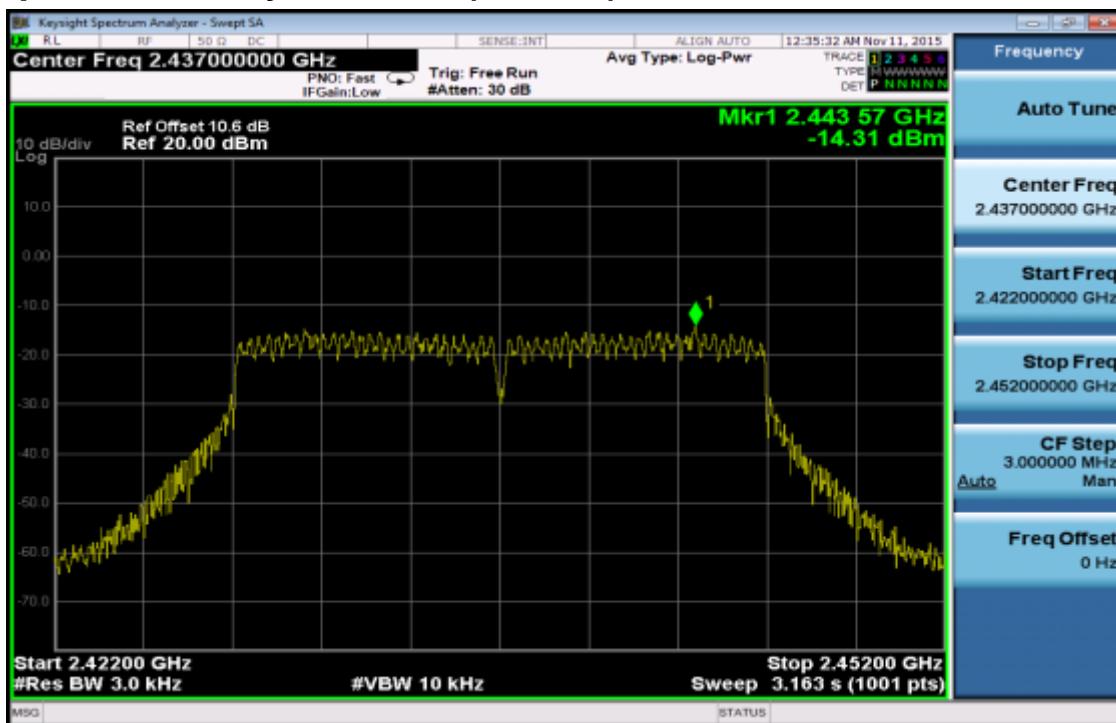
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802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



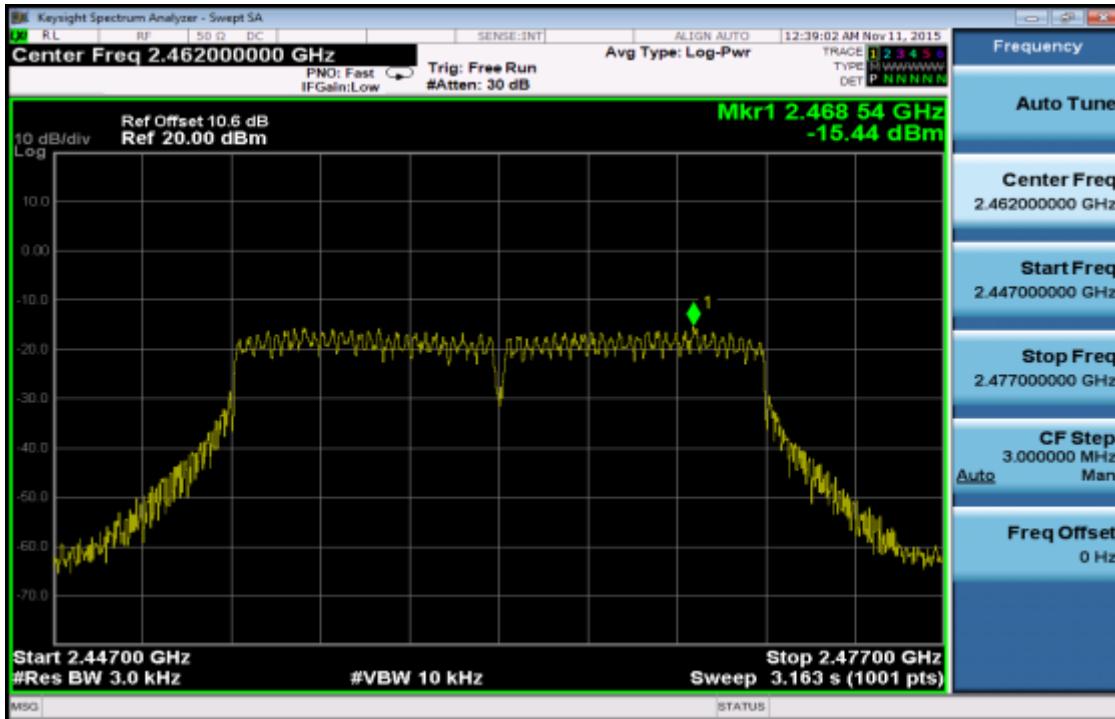
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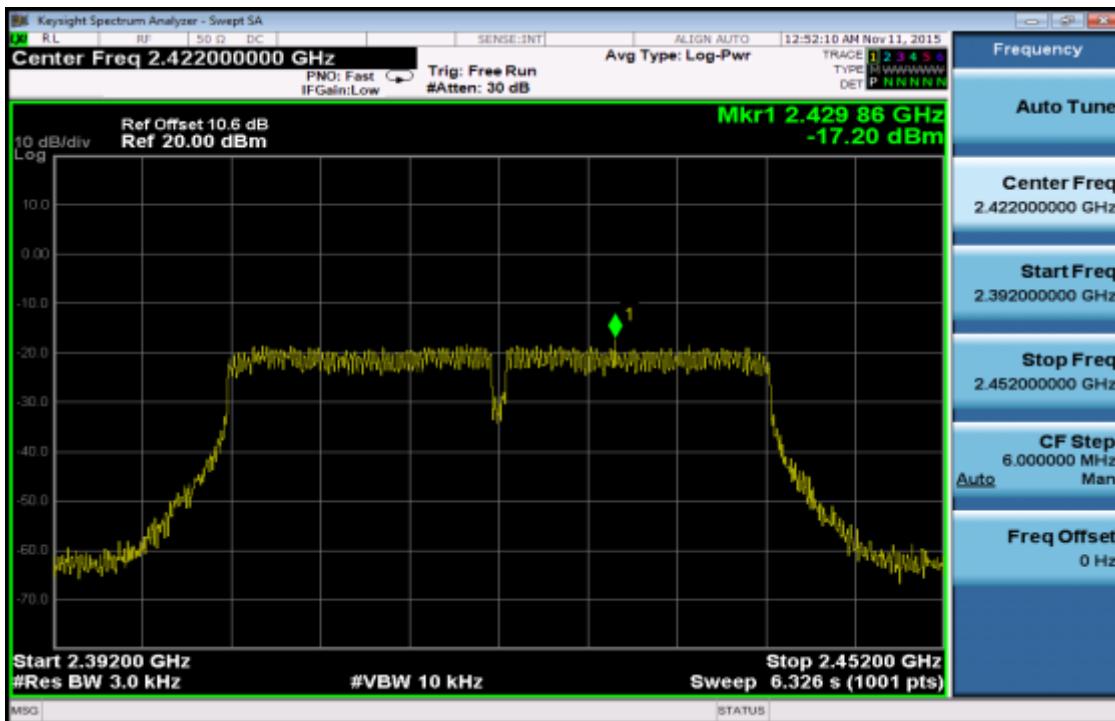
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40

Power Spectral Density Test Plot (CH-Low)



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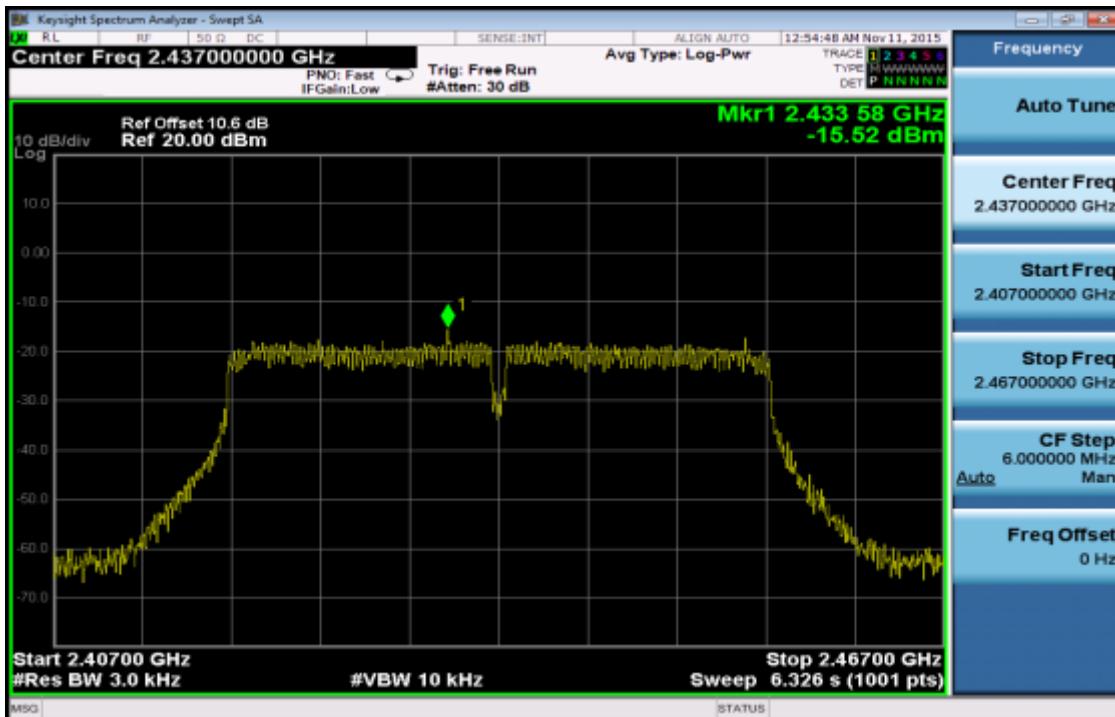
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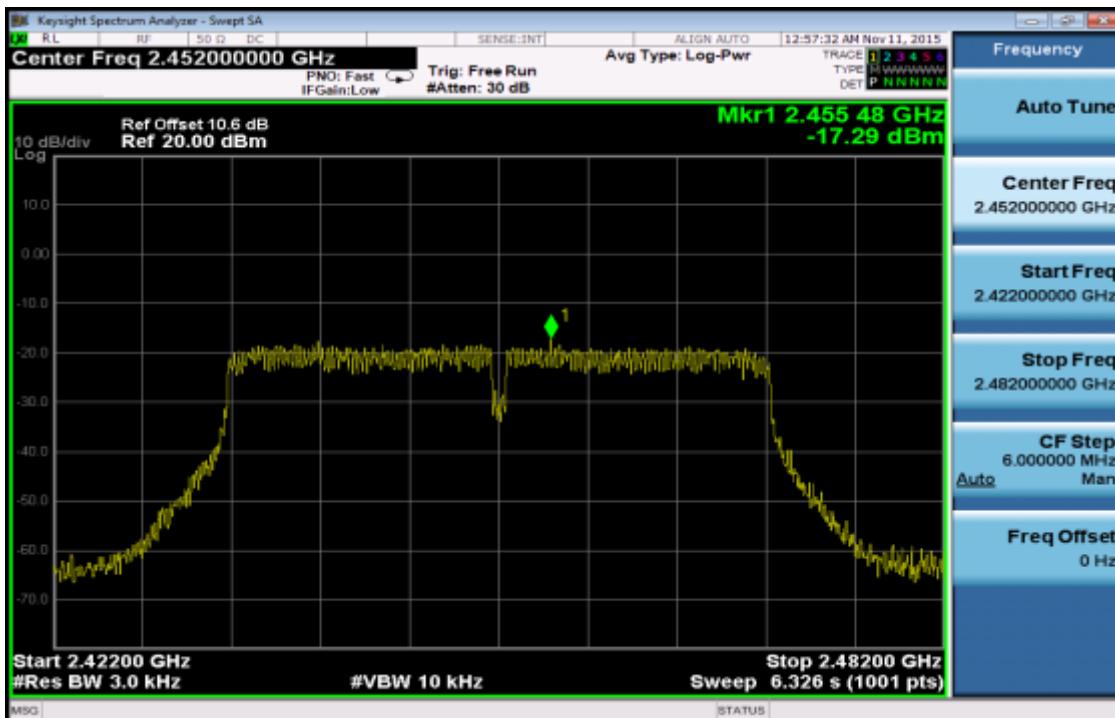
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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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

A dipole antenna design is used.

The antenna connector is designed with unique type RF connector 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.

~ End of Report ~

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