

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT AND INDUSTRY CANADA RSS 247

OF

Product Name: Tablet Computer
Brand Name: FUJITSU
Model No.: R727
Model Difference: N/A
FCC ID: EJE-WB0102
IC: 337J-WB0102
Report No.: E2/2016/A0073
Issue Date: Mar. 15, 2017
FCC Rule Part: §15.247, Cat: DTS
IC Rule Part: RSS-247 issue 2 Feb. 2017
FUJITSU LIMITED
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SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: FUJITSU LIMITED
4-1-1, Kamikodanaka, Nakahara-ku,
Kawasaki-shi, Kanagawa, 211-8588, Japan

Product Name: Tablet Computer

Brand Name: FUJITSU

Model No.: R727

Model Difference: N/A

FCC ID: EJE-WB0102

IC: 337J-WB0102

Report Number: E2/2016/A0073

Date of test: Nov. 01, 2016 ~ Nov. 14, 2016

Date of EUT Received: Nov. 01, 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: Jerry Lu **Date:** Mar. 15, 2017

Jerry Lu / Sr. Engineer

Prepared By: Tiffany Kao **Date:** Mar. 15, 2017

Tiffany Kao / Clerk

Approved By: Jim Chang **Date:** Mar. 15, 2017

Jim Chang / Asst. Manager

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Revision History

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E2/2016/A0073	Rev.00	Initial creation of document	Nov. 17, 2016
E2/2016/A0073	Rev.01	Add EUT components table	Fed. 09, 2017
E2/2016/A0073	Rev.02	RSS-247 updated to issue 2	Mar. 09, 2017
E2/2016/A0073	Rev.03	Updated Battery information	Mar. 15, 2017

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	Tablet Computer	
Brand Name:	FUJITSU	
Model No.:	R727	
Model Difference:	N/A	
BT / WLAN Module:	Model No.: 8265D2W, Supplier: Intel Mobile Communications France S.A.S	
NFC Module:	Model No.: RC-S650/IA, Supplier: Sony Corporation	
Product SW/HW version:	10.0.14393 Build 14393 / AX1	
Radio SW/HW version:	N/A / N/A	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.6Vdc from Rechargeable Li-ion Battery or 19V by AC/DC Power Adapter	
	Battery:	Model No.: FPB0328; Supplier: Getac
	Adapter:	Model No.: ADP-65MD A, Supplier: Delta

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2472	13	b: 17.80dBm b: 14.21dBm (EIRP) g: 20.71dBm g: 14.19dBm (EIRP)	b: 13M5G1D g:16M6D1D	DSSS, OFDM
11n	HT20 2412-2472	13	HT20:24.32dBm (MIMO Chain 0+1) HT20:20.22dBm (MIMO Chain 0+1) (EIRP)	HT20:17M8D1D	OFDM
11n	HT40 2422-2462	7	HT40: 23.31dBm (MIMO Chain 0+1) HT40: 20.25dBm (MIMO Chain 0+1) (EIRP)	HT40:36M2D1D	OFDM
Antenna Designation:		PIFA Antenna, Main Antenna Model No.: WA-P-LB-03-059 Gain: -0.88dBi Aux antenna model No.: WA-P-LB-02-301 Gain: -0.74dBi			
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 144Mbps 802.11 n_40MHz: up to 300Mbps			

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*Descriptions of EUT Components

Part Name	Description	Supplier	Supplier P/N
CPU	Kaby Lake H-0 2c BGA 2.8GHz 15W (I7 VPRO), i7-7600U	Intel	FJ8067702739628
Memory	LPDRAM LPDDR3-1866 8GB, 1.2V/1.8V	Samsung	K4E6E304EB-EGCF
LCD Panel	12.5"FHD 400cd/m2	Samsung	LTN125HL04-702
Touch Panel	Touch Panel	TPK	TBD54
SSD	512GB, M.2, SATAIII, FDE	Samsung	MZNTN512HDJH-00007
CCD	Front Camera, 2M Pixels	Liteon	5SF206T2
CCD	Rear Camera, 5M Pixels	Chicony	CJAF52120004900LH
Keyboard unit	for FPCA (US)	Inventec	29-2AZ01F311
Active Pen	Active Pen	Waltop	ACS-03
Docking Station	Docking Station Unit	Fujitsu	FPCPR336

1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	Tablet Computer
Brand Name:	FUJITSU
Model No.:	R727
Model Difference:	N/A
FCC ID:	EJE-WB0102
IC :	337J-WB0102
Wi-Fi Specification	802.11a/b/g/n/ac
Bluetooth Version	V4.2 dual mode

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

FCC KDB 662911 D01 Multiple Transmitter Output

Canada RSS-247 issue 2 Feb. 2017

Canada RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

FCC Registration Numbers are: 735305

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 30 MHz. 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 1.3dB, and 10dB attenuator (SISO) and cable loss 4.3dB, and 10dB attenuator (MIMO).

Offset:

SISO mode offset = RF cable loss (dB) + attenuation factor (dB) = 11.3 (dB)

MIMO mode offset = RF cable loss (dB) + attenuation factor (dB) + 10 log(N_{ANT}) dB = 14.3 (dB)

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2.5 Configuration of Tested System

Fig. 2-1 Conducted Emission configuration

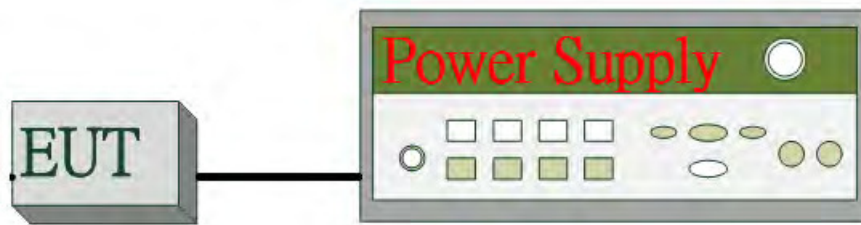


Fig. 2-2 Conduction & Radiated Emission configuration

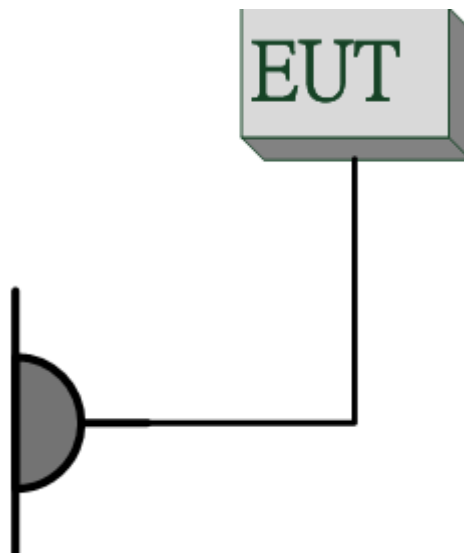


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	DRTU	N/A	N/A	N/A	N/A
2.	DC Power Supply	Agilent	E3640A	MY52410006	N/A	Un-Shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules / IC Rules	Description Of Test	Result
§15.207(a) RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3) RSS-247 §5.4(4)	Peak Output Power	Compliant
§15.247(a)(2) RSS-247 §5.2 (1) RSS-Gen §6.6	6dB & 99% Emission Bandwidth	Compliant
§15.247(d) RSS-247 §5.5	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) RSS-247 §5.5	Radiated Band Edge and Spurious Emission	Compliant
§15.247(e) RSS-247 §5.2(2)	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	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

7 channels are provided for 802.11n HT40

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

RADIATED EMISSION TEST:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux

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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 13	1, 6, 11,12,13	DSSS	1	Aux
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux
802.11n (HT20)	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO

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 13	1, 6, 11,12,13	DSSS	1	Aux
802.11g	1 to 13	1, 6, 11,12,13	OFDM	6	Aux
802.11n (HT20)	1 to 13	1, 6, 11,12,13	OFDM	MCS 8	MIMO
802.11n (HT40)	3 to 11	3, 6, 9,10,11	OFDM	MCS 8	MIMO

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Directional gain (MIMO)

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

Array gain = 3.01dBi (peak spectral density, conducted spurious emission)

Gain that is combined with different magnitude of two antennas:

- (ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain, provided that each transmit antenna is driven by only one spatial stream:
- Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain; or,

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.

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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)	9kHz-30MHz: +/-2.87dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz-30MHz: +/-2.87dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI 7	100950	12/12/2015	12/11/2016
Coaxial Cables	N/A	N30N30-1042-150cm	N/A	02/07/2016	02/06/2017
LISN	Schwarzbeck	NSLK 8127	8127-648	03/11/2016	03/10/2017
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 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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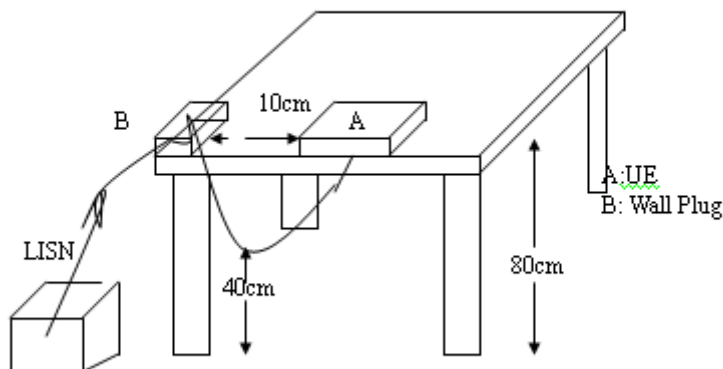
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6.4 Test SET-UP (Block Diagram of Configuration)



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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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Nov. 08, 2016
Temperature:	20		

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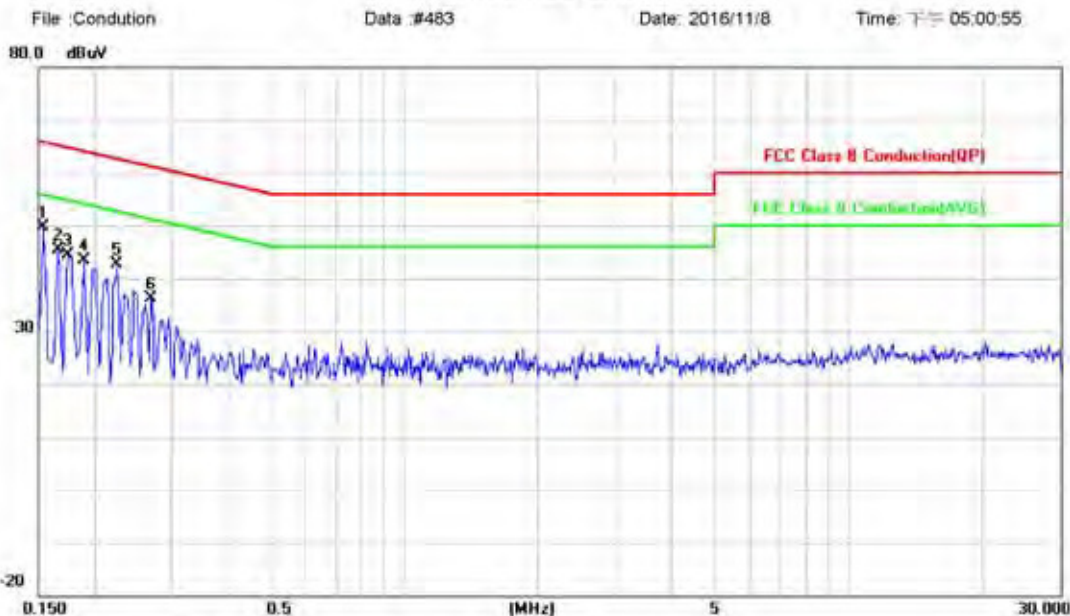
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Site : Conduction Room Phase: **N** Temperature: 25 °C
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 63 %
Mode: 英業達 ADP-65MD A
Note:

Conducted Emission



No.	Mk.	Freq	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1540	30.01	19.73	49.74	65.78	-16.04	peak	
2		0.1660	25.75	19.73	45.48	65.16	-19.68	peak	
3		0.1740	24.72	19.73	44.45	64.77	-20.32	peak	
4		0.1900	23.61	19.72	43.33	64.04	-20.71	peak	
5		0.2260	22.97	19.74	42.71	62.60	-19.89	peak	
6		0.2700	16.29	19.77	36.06	61.12	-25.06	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	98.79	0.05
802.11g	94.70	0.24
802.11n_20	84.30	0.74
802.11n_40	83.54	0.78

$$b = 98.79\%, g = 94.7\%, n_{ht\ 20} = 84.3\%, n_{ht40} = 83.54\%$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9879) = 0.05$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.947) = 0.24$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.843) = 0.74$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8354) = 0.78$$

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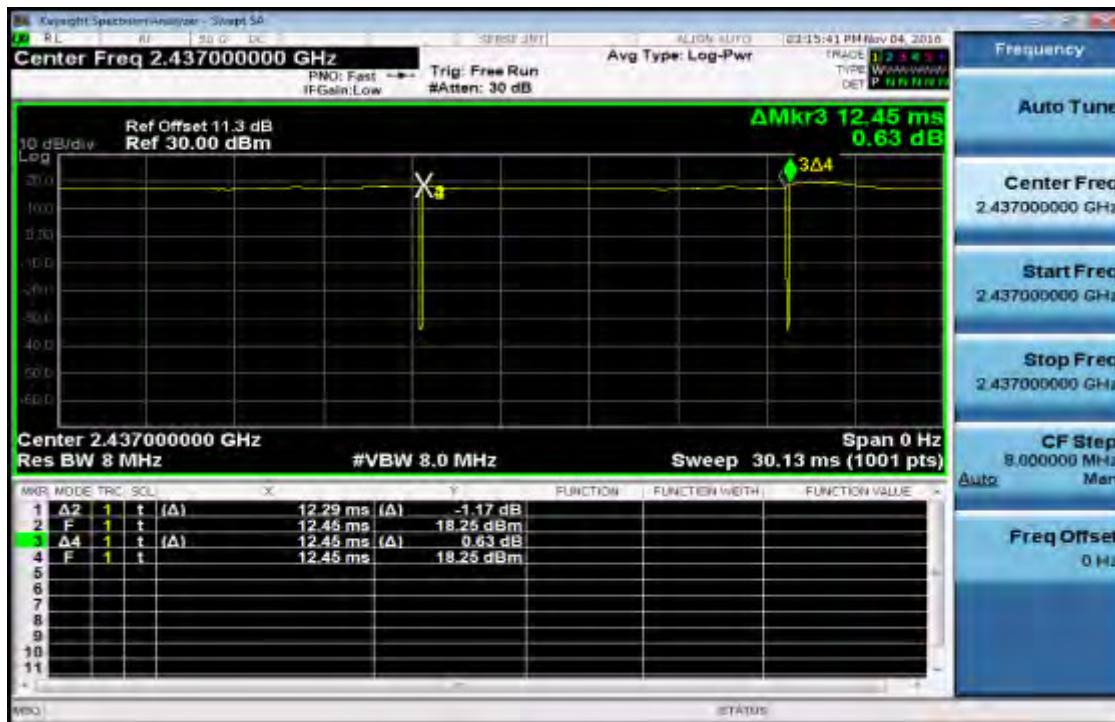
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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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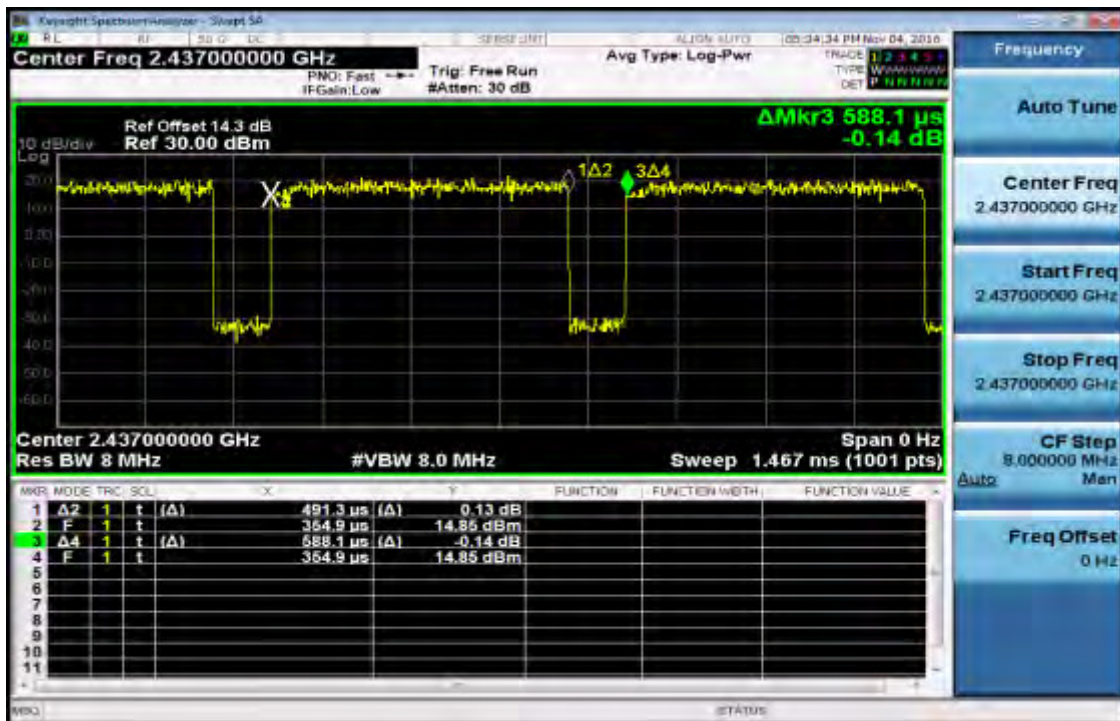
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802.11 n_20 MHz



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.

Per RSS-247

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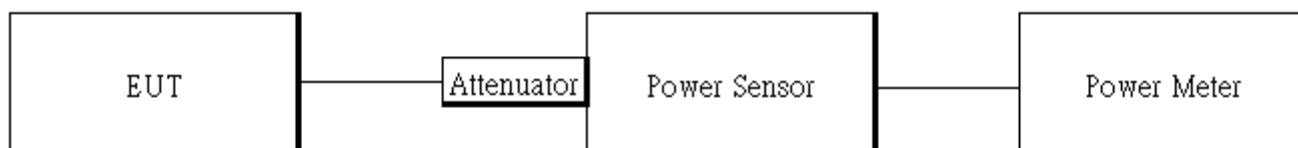
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2016	04/13/2017
Power Meter	Anritsu	ML2496A	1326001	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315048	06/23/2016	06/22/2017
Power Sensor	Anritsu	MA2411B	1315049	06/23/2016	06/22/2017
Coaxial Cable 30cm	WOKEN	00100A1F1A195 C	RF01	12/12/2015	12/11/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016
DC Power Supply	Agilent	E3640A	MY53140006	05/04/2016	05/03/2017

8.3 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.
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 Aux1						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	17.62	57.81	1 Watt = 30.00 dBm	PASS
6	2437	1	17.74	59.43	1 Watt = 30.00 dBm	PASS
11	2462	1	17.80	60.26	1 Watt = 30.00 dBm	PASS
12	2467	1	17.47	55.85	1 Watt = 30.00 dBm	PASS
13	2472	1	12.62	18.28	1 Watt = 30.00 dBm	PASS

802.11b Aux1						
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	1	14.94	31.19	1 Watt = 30.00 dBm	PASS
6	2437	1	14.95	31.26	1 Watt = 30.00 dBm	PASS
11	2462	1	14.95	31.26	1 Watt = 30.00 dBm	PASS
12	2467	1	14.74	29.79	1 Watt = 30.00 dBm	PASS
13	2472	1	9.82	9.59	1 Watt = 30.00 dBm	PASS

802.11g Aux1						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	20.51	112.46	1 Watt = 30.00 dBm	PASS
6	2437	6	20.4	109.65	1 Watt = 30.00 dBm	PASS
11	2462	6	20.71	117.76	1 Watt = 30.00 dBm	PASS
12	2467	6	19.26	84.33	1 Watt = 30.00 dBm	PASS
13	2472	6	6.73	4.71	1 Watt = 30.00 dBm	PASS

802.11g Aux1						
CH	Frequency (MHz)	Data Rate	Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
1	2412	6	14.89	30.83	1 Watt = 30.00 dBm	PASS
6	2437	6	14.93	31.12	1 Watt = 30.00 dBm	PASS
11	2462	6	14.84	30.48	1 Watt = 30.00 dBm	PASS
12	2467	6	13.45	22.13	1 Watt = 30.00 dBm	PASS
13	2472	6	0.85	1.22	1 Watt = 30.00 dBm	PASS

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802.11n_HT20M MIMO								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	19.17	20.18	22.71	186.84	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	20.60	21.35	24.00	251.27	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	20.79	21.78	24.32	270.61	1 Watt = 30.00 dBm	PASS
12	2467	MCS8	17.20	17.43	20.33	107.82	1 Watt = 30.00 dBm	PASS
13	2472	MCS8	5.27	5.66	8.48	7.05	1 Watt = 30.00 dBm	PASS

802.11n_HT20M MIMO								
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT
			CH 0	CH 1				
1	2412	MCS8	13.32	13.55	16.45	44.12	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	14.53	15.26	17.92	61.95	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	14.56	15.29	17.95	62.38	1 Watt = 30.00 dBm	PASS
12	2467	MCS8	10.69	10.98	13.85	24.25	1 Watt = 30.00 dBm	PASS
13	2472	MCS8	-0.90	-0.25	2.45	1.76	1 Watt = 30.00 dBm	PASS

802.11n_HT40M MIMO								
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)		Total Peak Output Power (dBm)	Total Peak Output Power (mW)	Limit	RESULT
			CH 0	CH 1				
3	2422	MCS8	17.43	18.48	21.00	125.80	1 Watt = 30.00 dBm	PASS
6	2437	MCS8	19.81	20.74	23.31	214.30	1 Watt = 30.00 dBm	PASS
9	2452	MCS8	16.60	17.65	20.17	103.92	1 Watt = 30.00 dBm	PASS
10	2457	MCS8	16.02	16.92	19.50	89.20	1 Watt = 30.00 dBm	PASS
11	2462	MCS8	2.73	2.85	5.80	3.80	1 Watt = 30.00 dBm	PASS

802.11n_HT40M MIMO									
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Max. Output include tune up tolerance Power (dBm)	Max. Output include tune up tolerance Power (mW)	Limit	RESULT	
			CH 0	CH 1					
3	2422	MCS8	12.49	13.36	15.96	39.42	1 Watt = 30.00 dBm	PASS	
6	2437	MCS8	14.43	15.45	17.98	62.81	1 Watt = 30.00 dBm	PASS	
9	2452	MCS8	11.51	12.39	14.98	31.50	1 Watt = 30.00 dBm	PASS	
10	2457	MCS8	10.41	11.38	13.93	24.73	1 Watt = 30.00 dBm	PASS	
11	2462	MCS8	-2.85	-2.37	0.41	1.10	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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EIRP Measurement:

802.11b Aux1							
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	1	14.94	-0.74	14.20	4W= 36 dBm	PASS
6	2437	1	14.95	-0.74	14.21	4W= 36 dBm	PASS
11	2462	1	14.95	-0.74	14.21	4W= 36 dBm	PASS
12	2467	1	14.74	-0.74	14.00	4W= 36 dBm	PASS
13	2472	1	9.82	-0.74	9.08	4W= 36 dBm	PASS

802.11g Aux1							
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	6	14.89	-0.74	14.15	4W= 36 dBm	PASS
6	2437	6	14.93	-0.74	14.19	4W= 36 dBm	PASS
11	2462	6	14.84	-0.74	14.10	4W= 36 dBm	PASS
12	2467	6	13.45	-0.74	12.71	4W= 36 dBm	PASS
13	2472	6	0.85	-0.74	0.11	4W= 36 dBm	PASS

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802.11n_HT20M MIMO

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
1	2412	MCS8	13.32	13.55	16.45	44.12	2.27	18.72	4W= 36 dBm	PASS
6	2437	MCS8	14.53	15.26	17.92	61.95	2.27	20.19	4W= 36 dBm	PASS
11	2462	MCS8	14.56	15.29	17.95	62.38	2.27	20.22	4W= 36 dBm	PASS
12	2467	MCS8	10.69	10.98	13.85	24.25	2.27	16.12	4W= 36 dBm	PASS
13	2472	MCS8	-0.90	-0.25	2.45	1.76	2.27	4.72	4W= 36 dBm	PASS

802.11n_HT40M MIMO

CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)		Avg. Output Power (dBm)	Total Peak Output Power (mW)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
			CH 0	CH 1						
3	2422	MCS8	12.49	13.36	15.96	39.42	2.27	18.23	4W= 36 dBm	PASS
6	2437	MCS8	14.43	15.45	17.98	62.81	2.27	20.25	4W= 36 dBm	PASS
9	2452	MCS8	11.51	12.39	14.98	31.50	2.27	17.25	4W= 36 dBm	PASS
10	2457	MCS8	10.41	11.38	13.93	24.73	2.27	16.20	4W= 36 dBm	PASS
11	2462	MCS8	-2.85	-2.37	0.41	1.10	2.27	2.68	4W= 36 dBm	PASS

* **Note:** EIRP = Average Power + Gain

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9 6DB & 99% BANDWIDTH MEASUREMENT

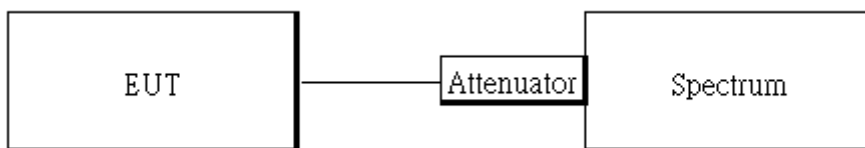
9.1 Standard Applicable

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	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	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

- Place the EUT on the table and set it in transmitting mode.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- Mark the peak frequency and -6dB (upper and lower) frequency.
- For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- Turn on the 99% bandwidth function, max reading.
- Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

6dB Bandwidth

802.11b Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	10135	> 500	PASS
2437	10131	> 500	PASS
2462	10136	> 500	PASS
2467	10140	> 500	PASS
2472	10130	> 500	PASS

802.11g Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	13820	> 500	PASS
2437	15150	> 500	PASS
2462	15100	> 500	PASS
2467	15450	> 500	PASS
2472	15650	> 500	PASS

802.11_n_HT20 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15700	> 500	PASS
2437	15100	> 500	PASS
2462	15940	> 500	PASS
2467	16080	> 500	PASS
2472	16370	> 500	PASS

802.11_n_HT20 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2412	15720	> 500	PASS
2437	15950	> 500	PASS
2462	16320	> 500	PASS
2467	16350	> 500	PASS
2472	15950	> 500	PASS

802.11_n_HT40 Main

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	35230	> 500	PASS
2437	35160	> 500	PASS
2452	32560	> 500	PASS
2457	32560	> 500	PASS
2462	32610	> 500	PASS

802.11_n_HT40 Aux1

Frequency (MHz)	6dB Bandwidth (kHz)	Limit (kHz)	Result
2422	33880	> 500	PASS
2437	35130	> 500	PASS
2452	33820	> 500	PASS
2457	32580	> 500	PASS
2462	32580	> 500	PASS

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99% Bandwidth

802.11b Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2412	13.447
2437	13.536
2462	13.373
2467	13.494
2472	13.447

802.11g Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2412	16.328
2437	16.470
2462	16.241
2467	16.438
2472	16.633

802.11n_HT20M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.715
2437	17.510
2462	17.520
2467	17.733
2472	17.803

802.11n_HT20M Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.734
2437	17.743
2462	17.578
2467	17.840
2472	17.597

802.11n_HT40M Main	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.021
2437	36.045
2452	35.886
2457	35.942
2462	36.093

802.11n_HT40M Aux1	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.033
2437	36.073
2452	36.141
2457	36.014
2462	36.220

**Refer to next page for plots*

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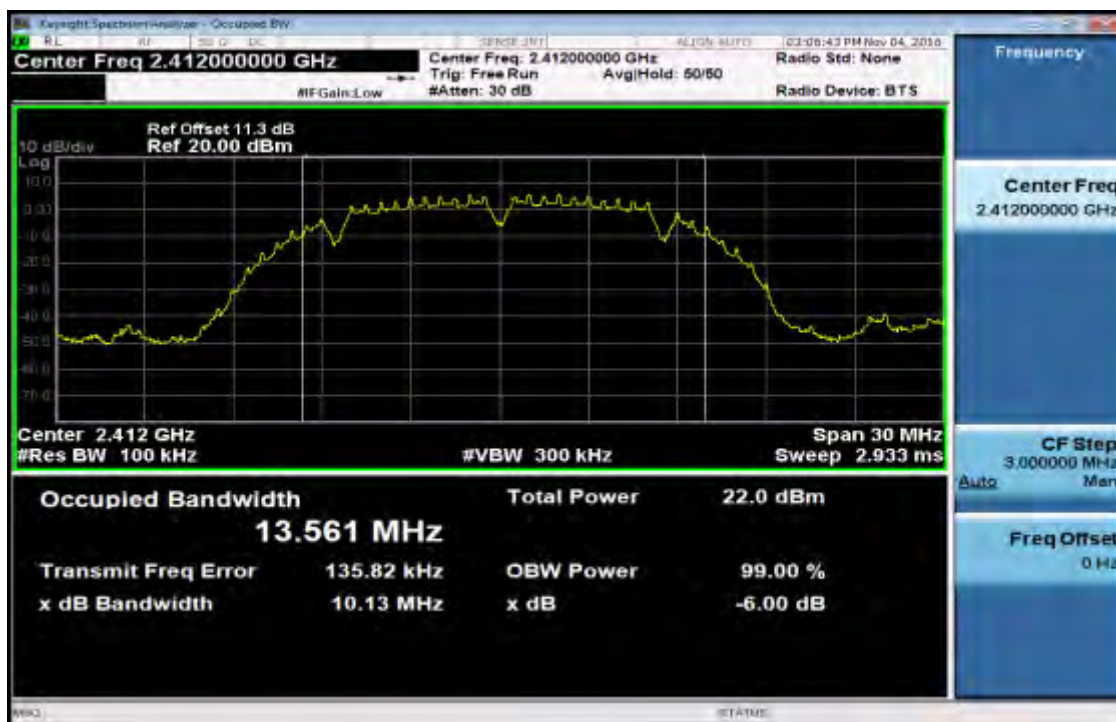
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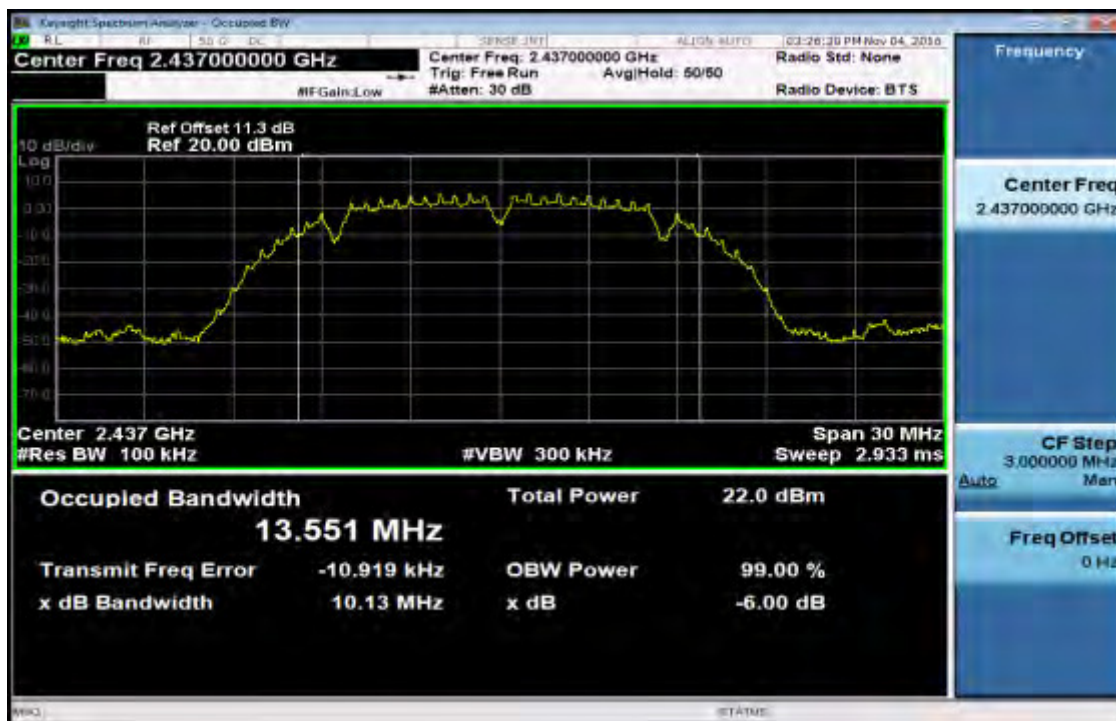
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802.11b (Aux) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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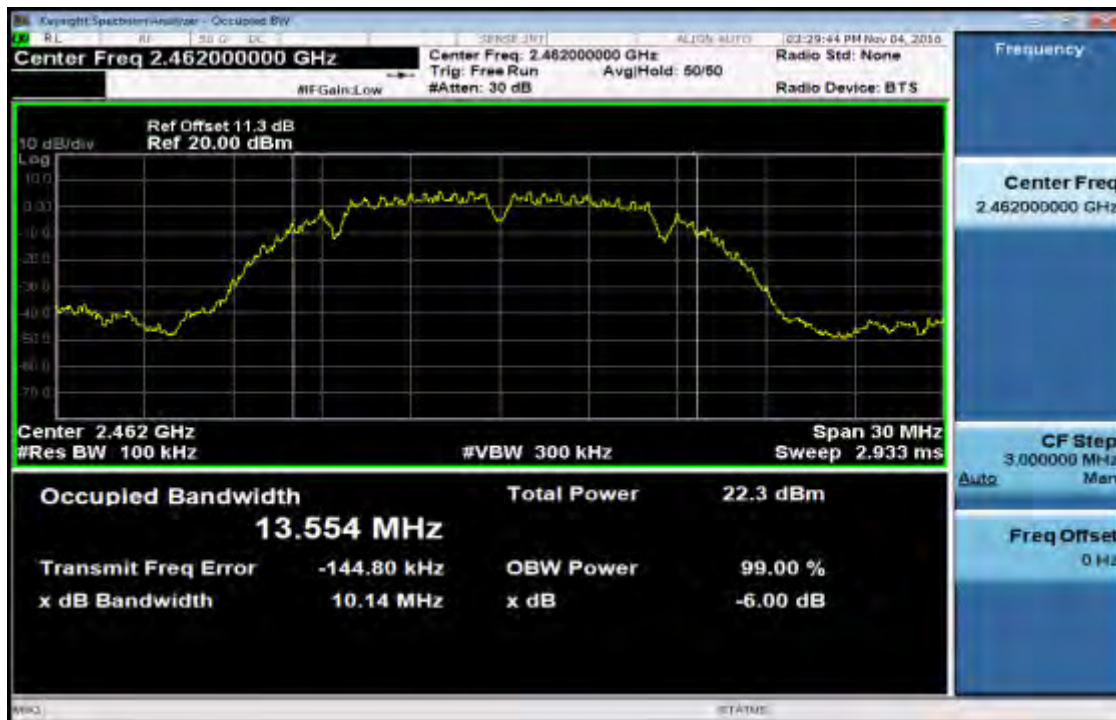
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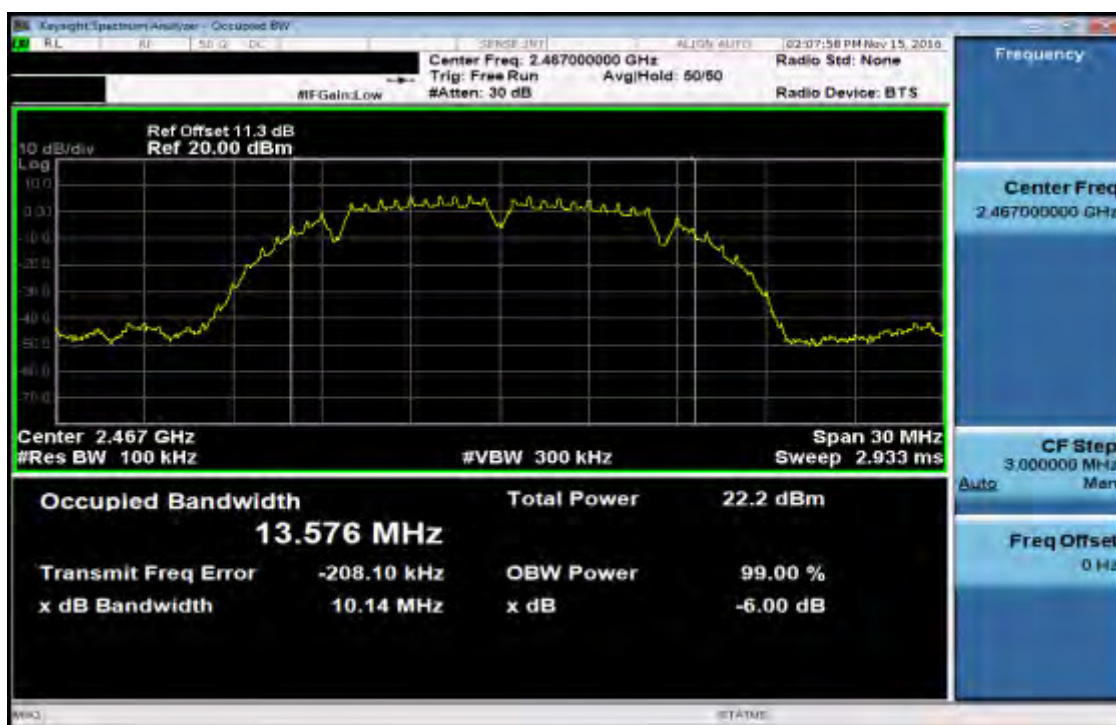
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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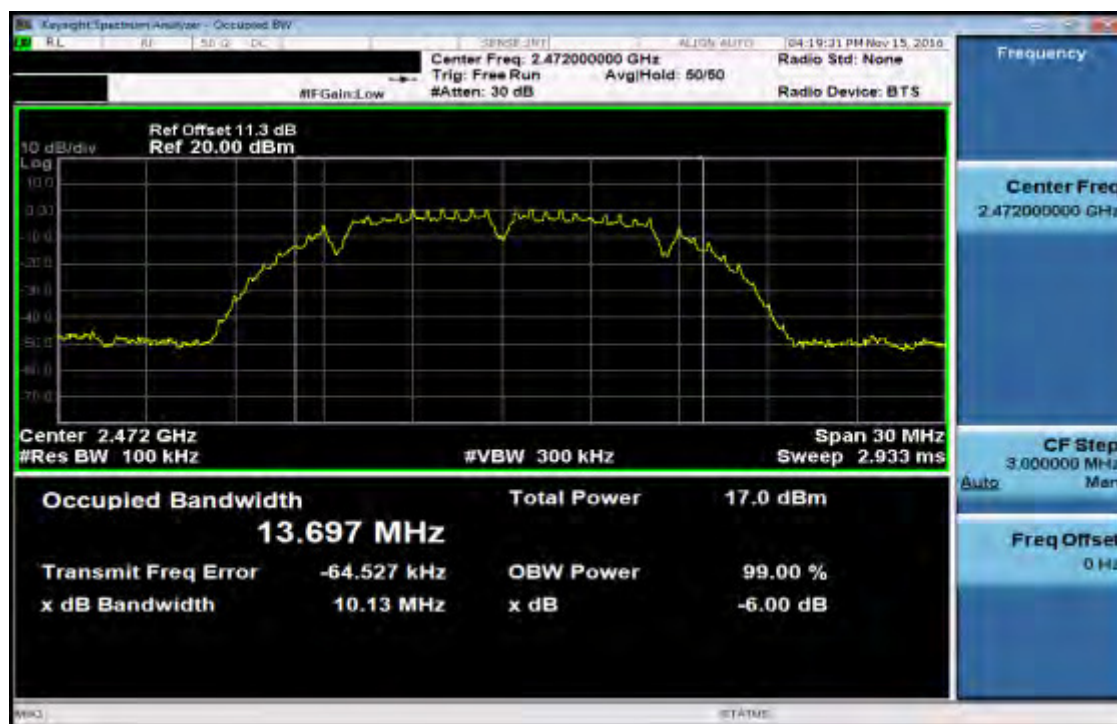
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6dB Band Width Test Data CH-13



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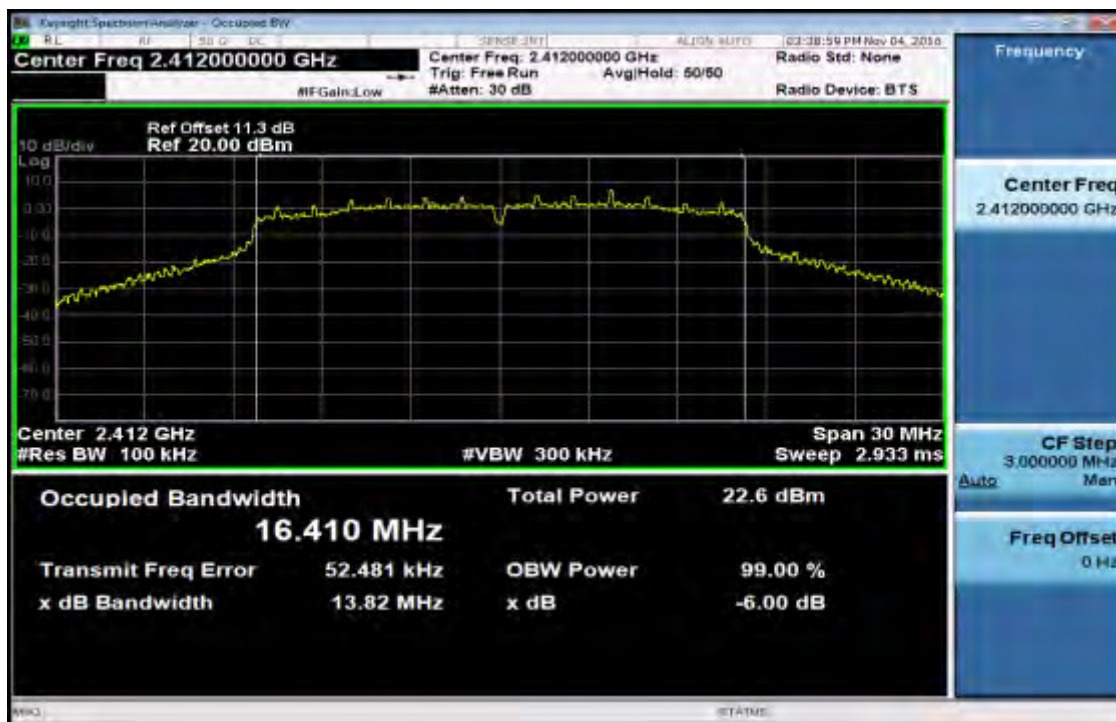
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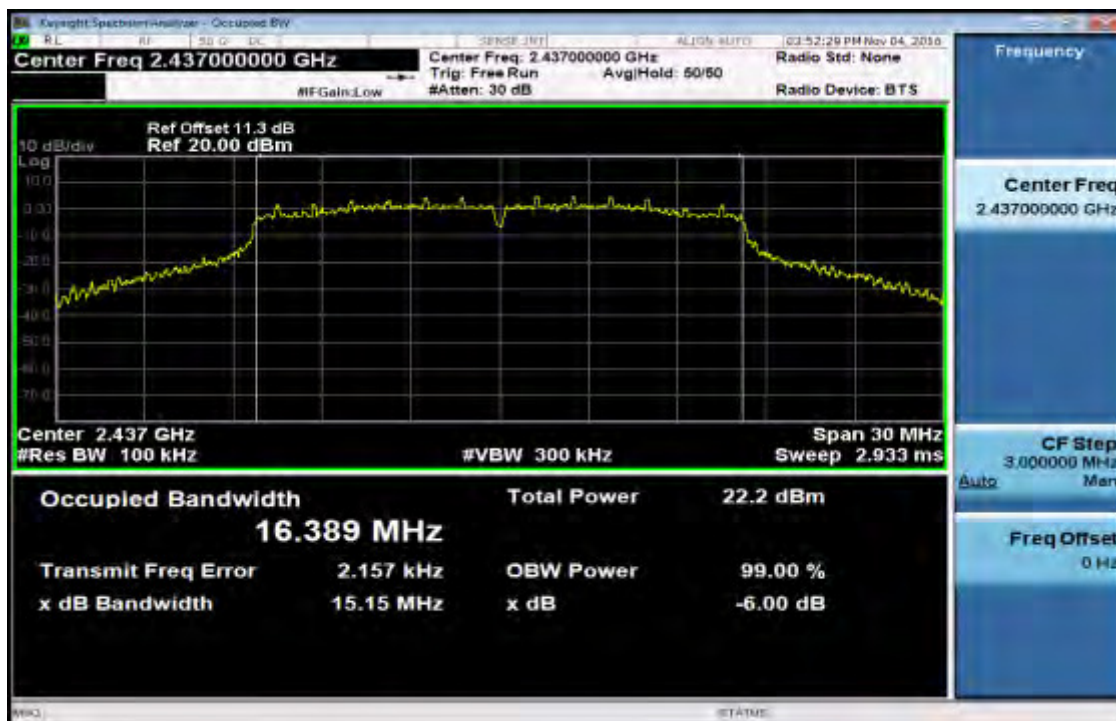
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802.11g (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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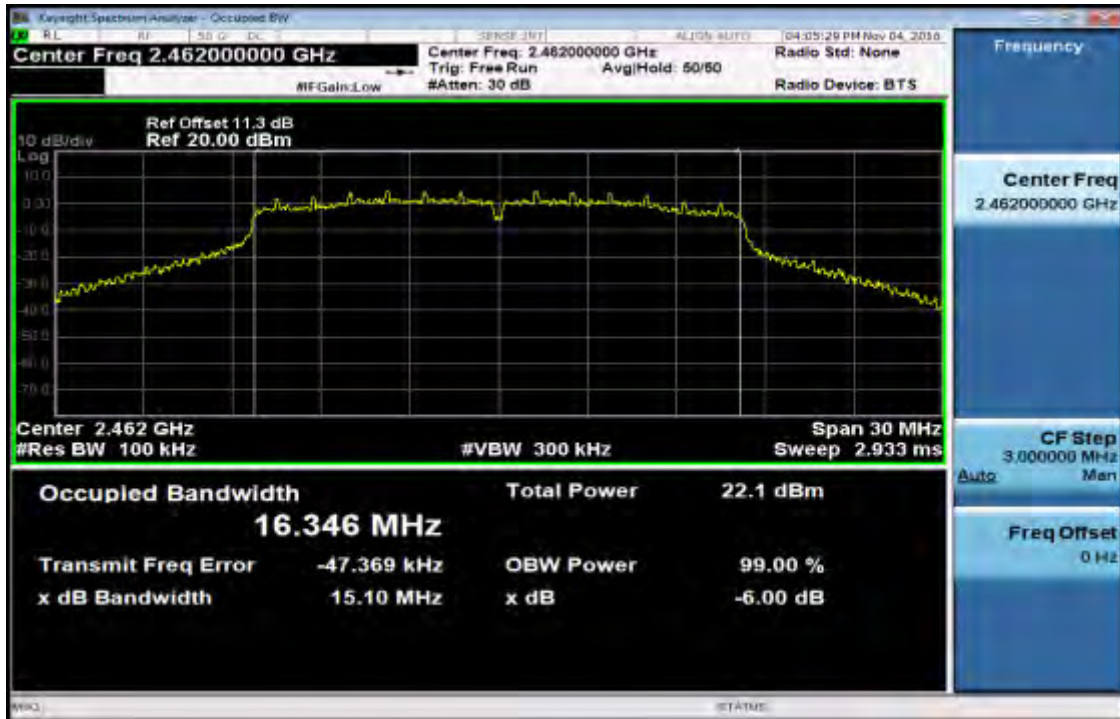
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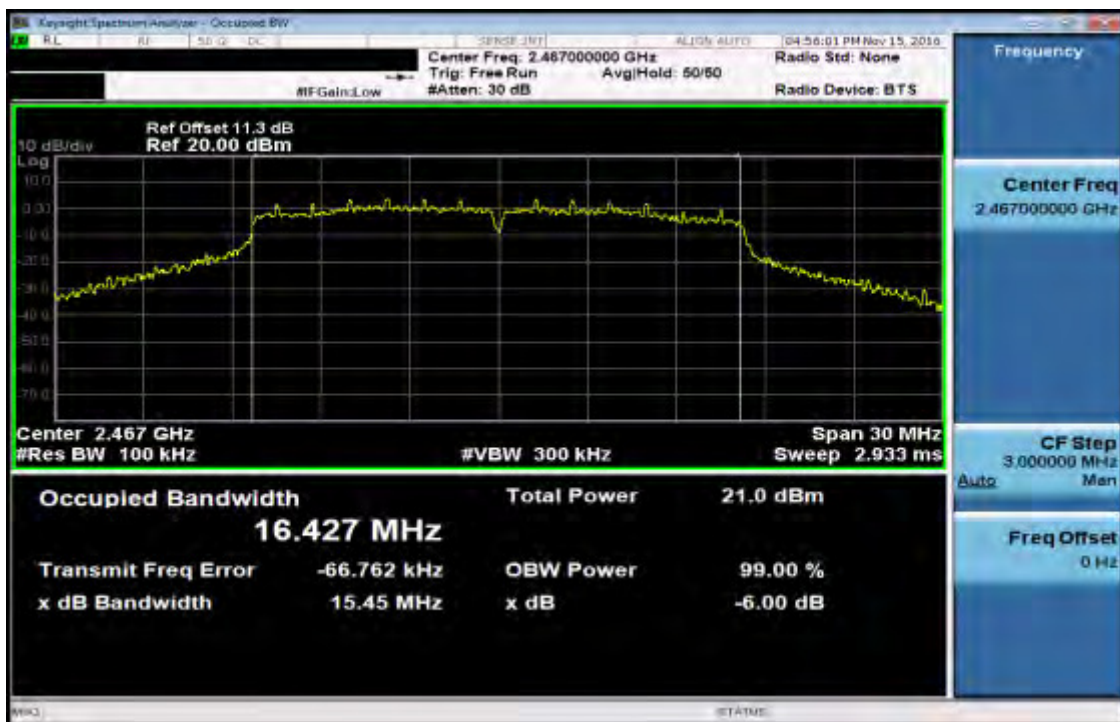
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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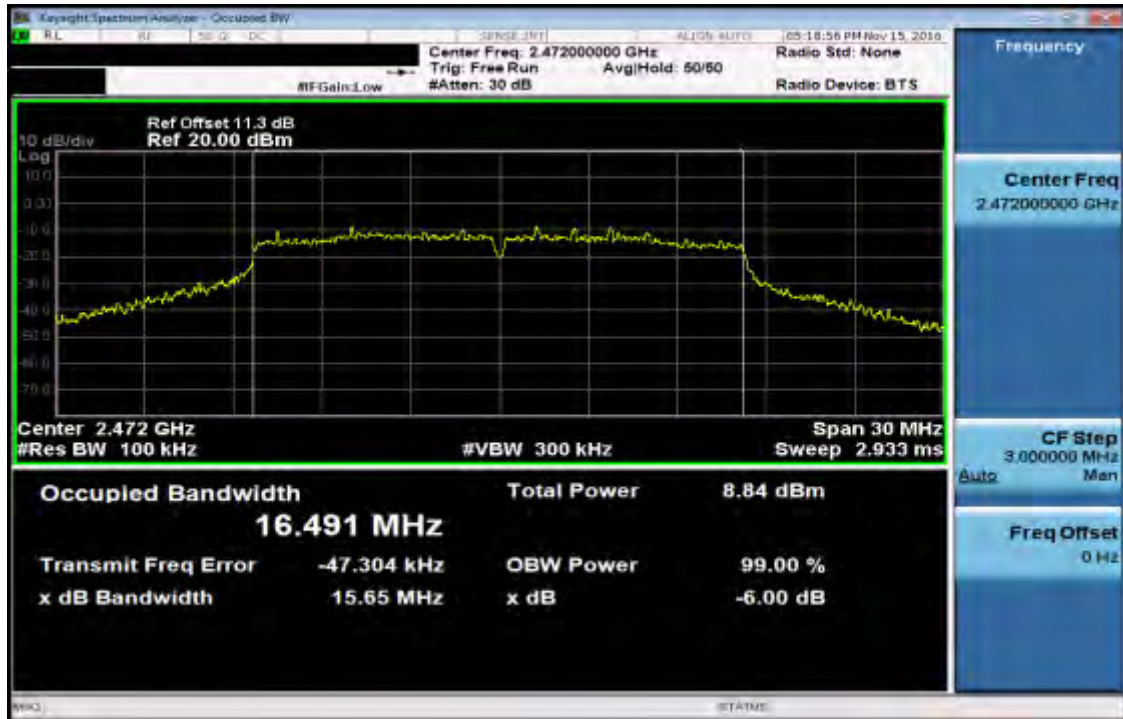
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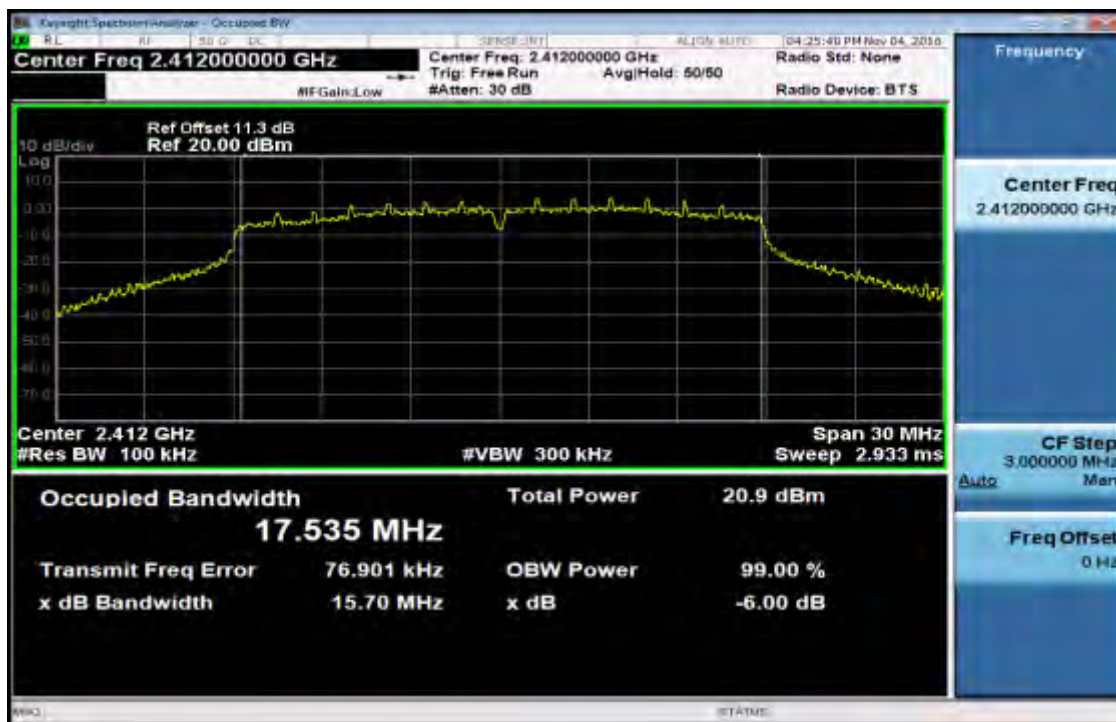
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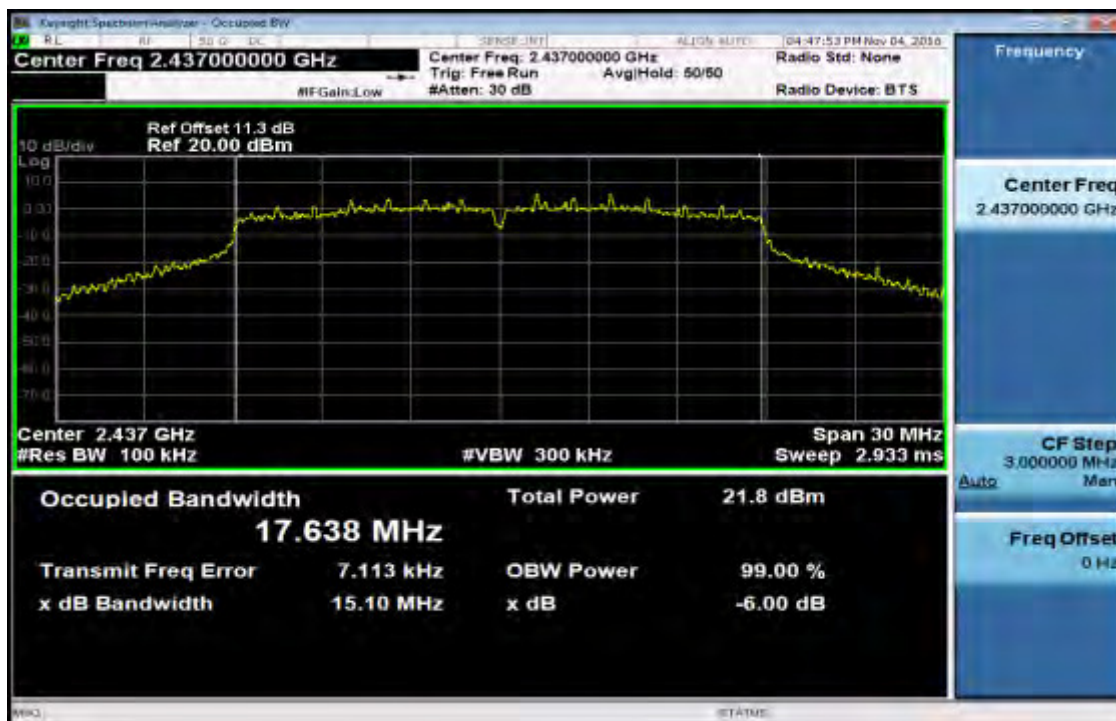
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802.11n_20M (Main)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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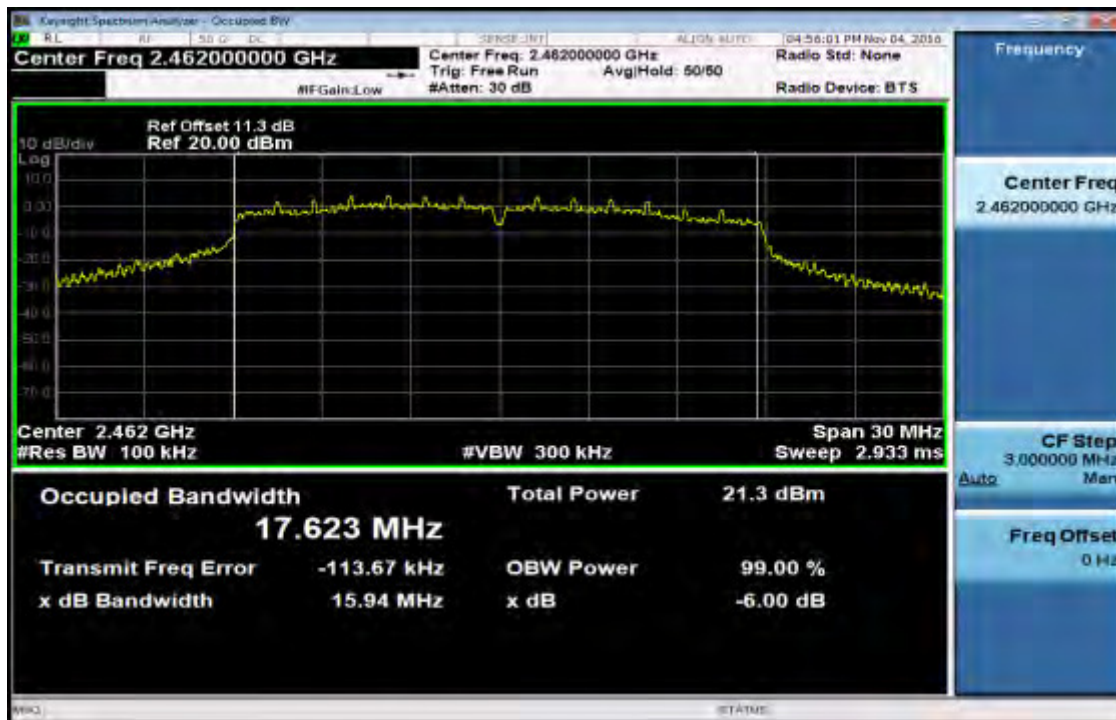
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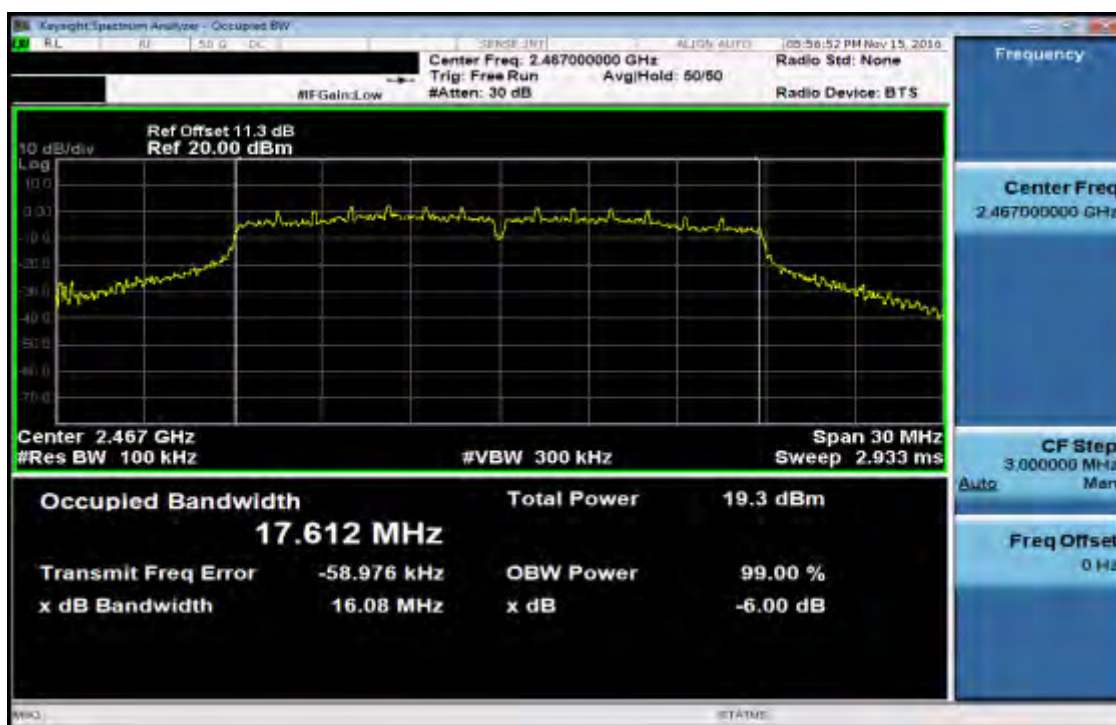
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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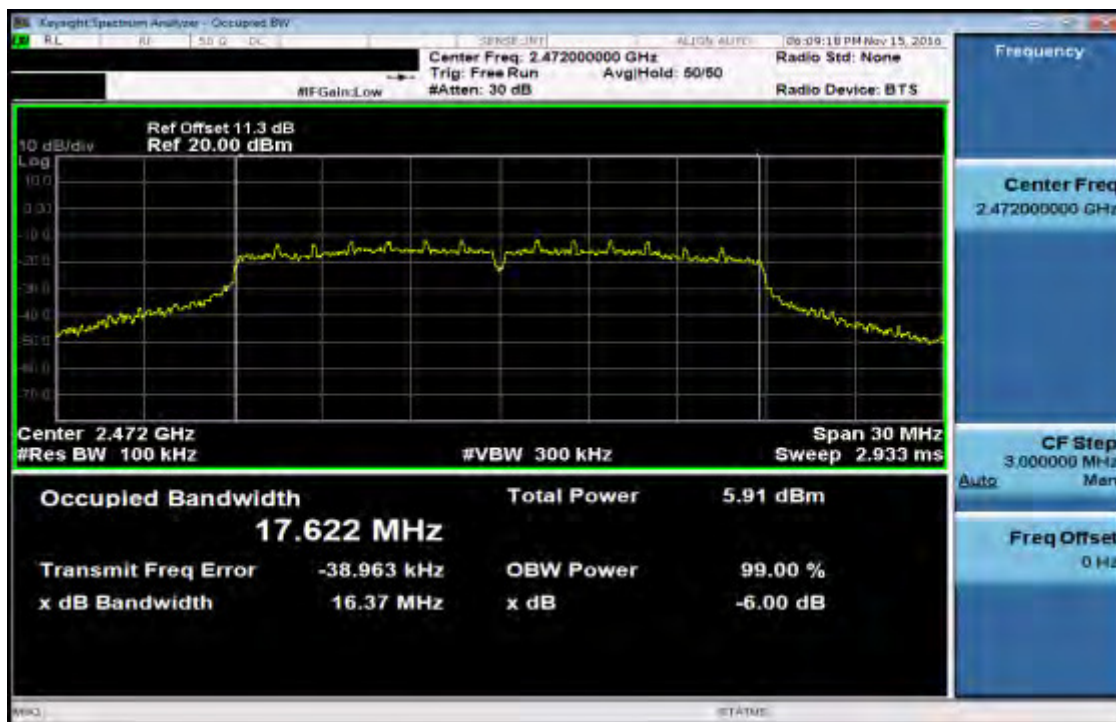
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6dB Band Width Test Data CH-13



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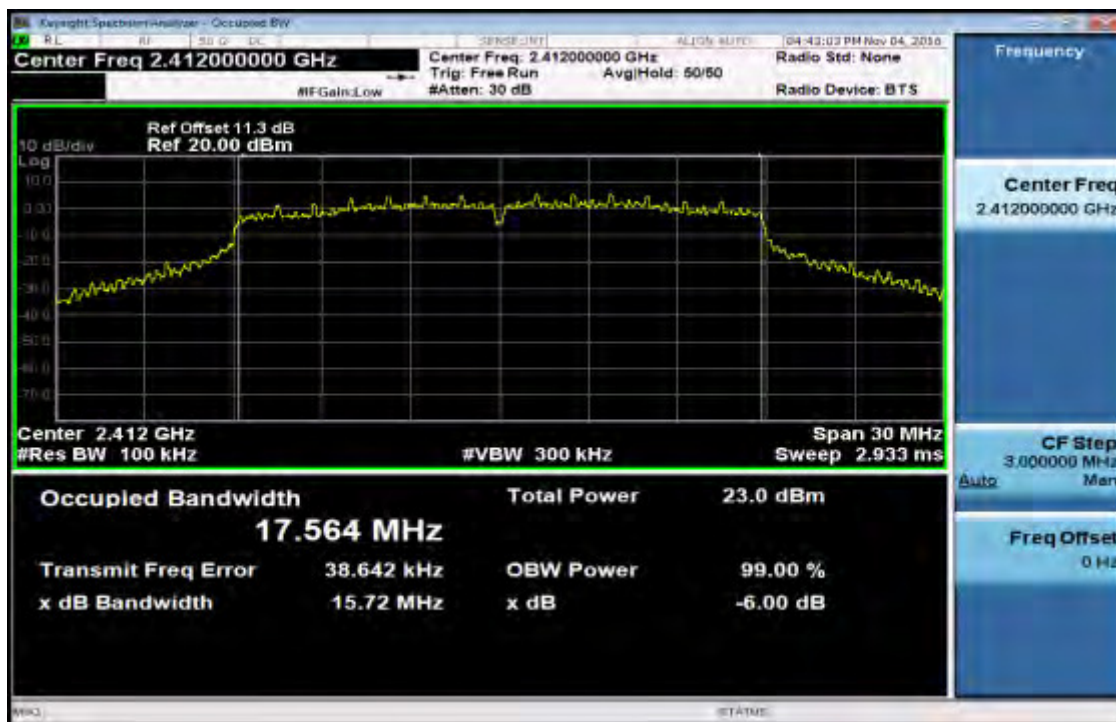
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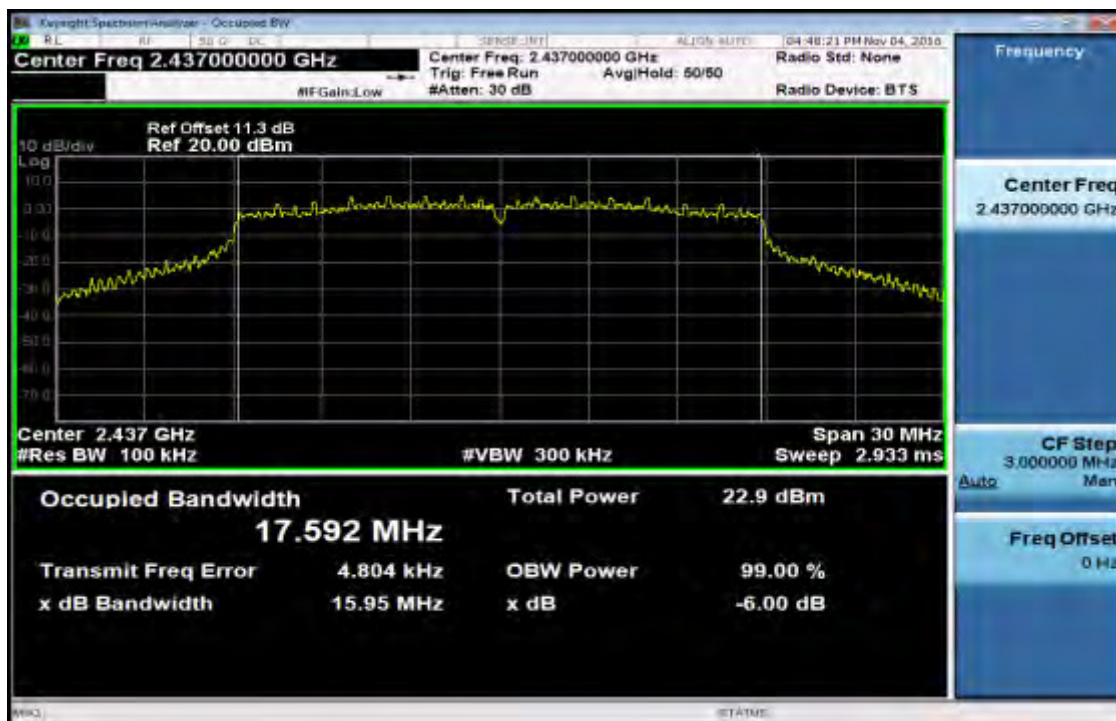
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802.11n_20M (Aux) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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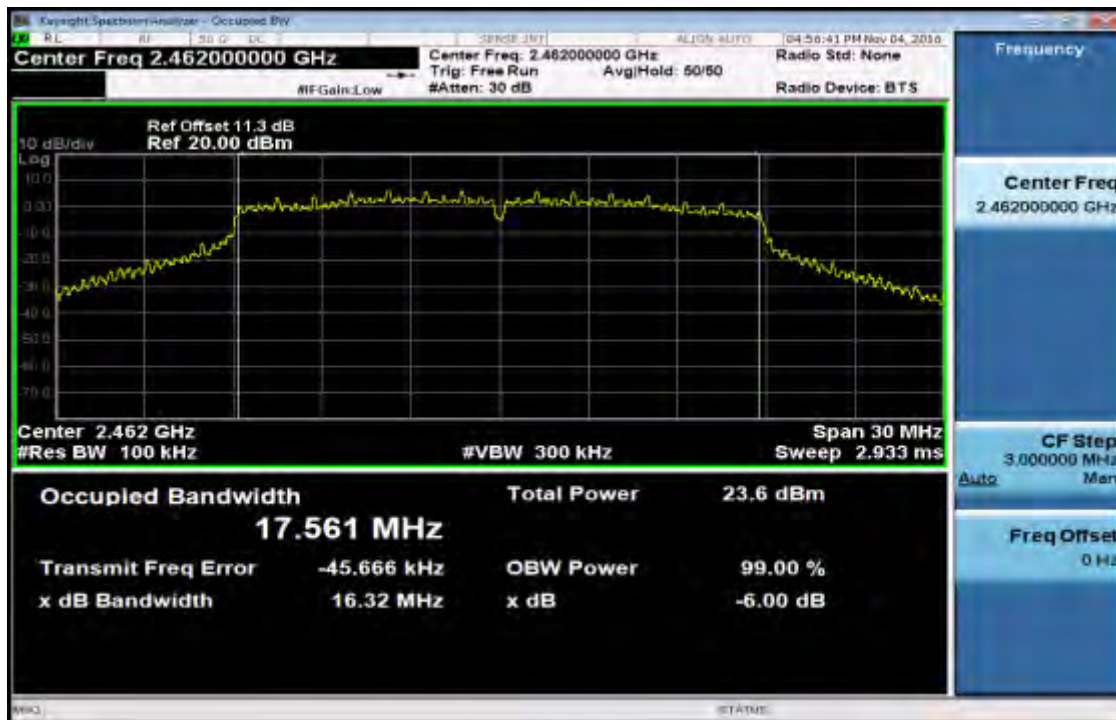
t (886-2) 2299-3279

f (886-2) 2298-0488

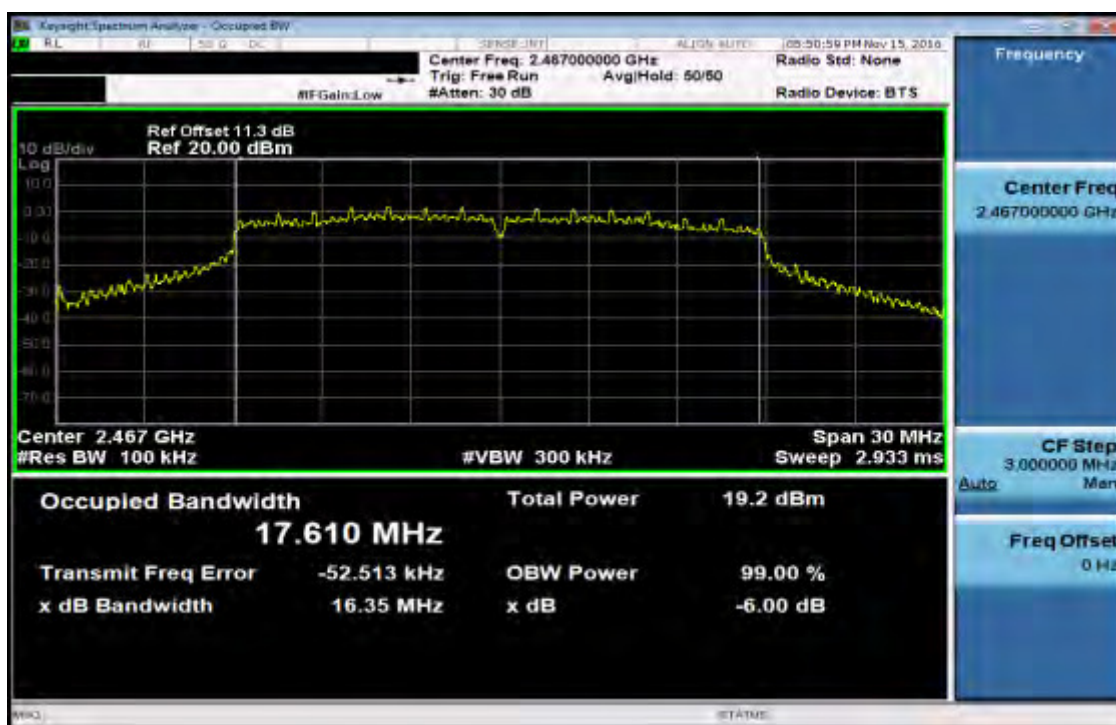
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-12



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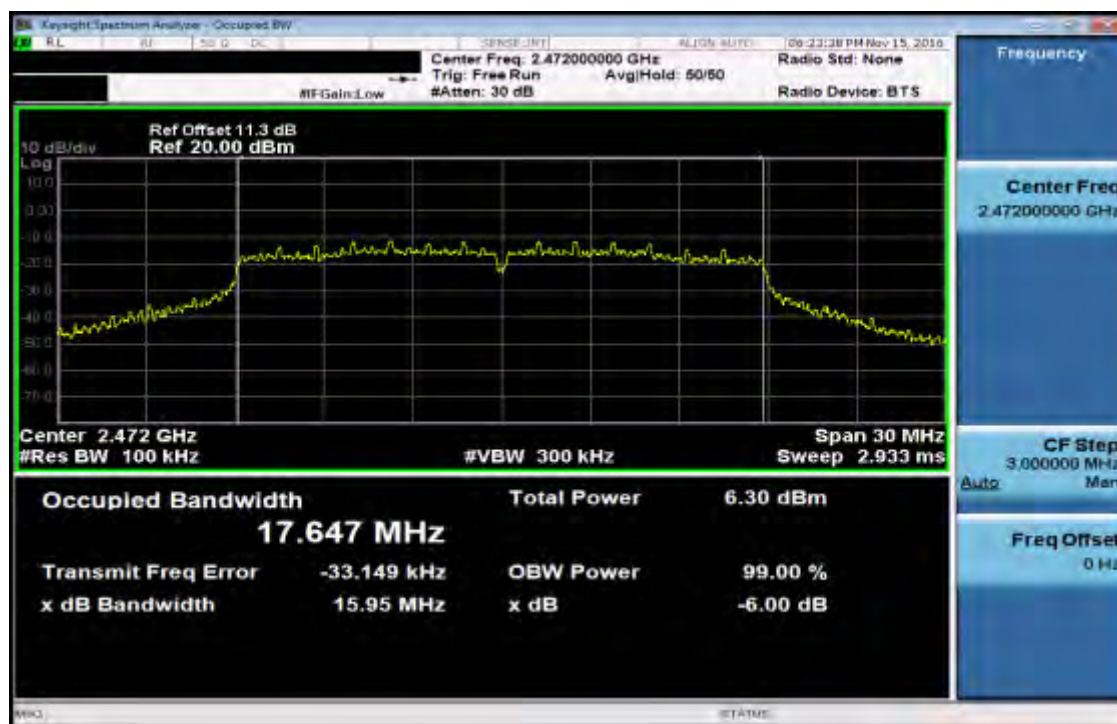
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6dB Band Width Test Data CH-13



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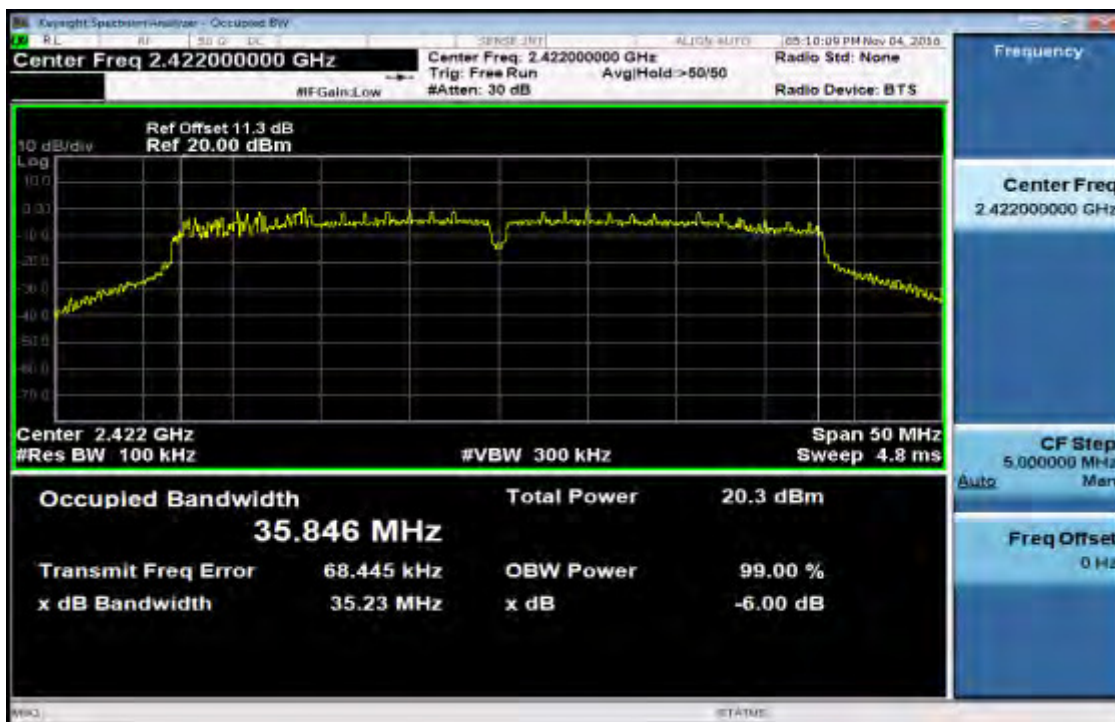
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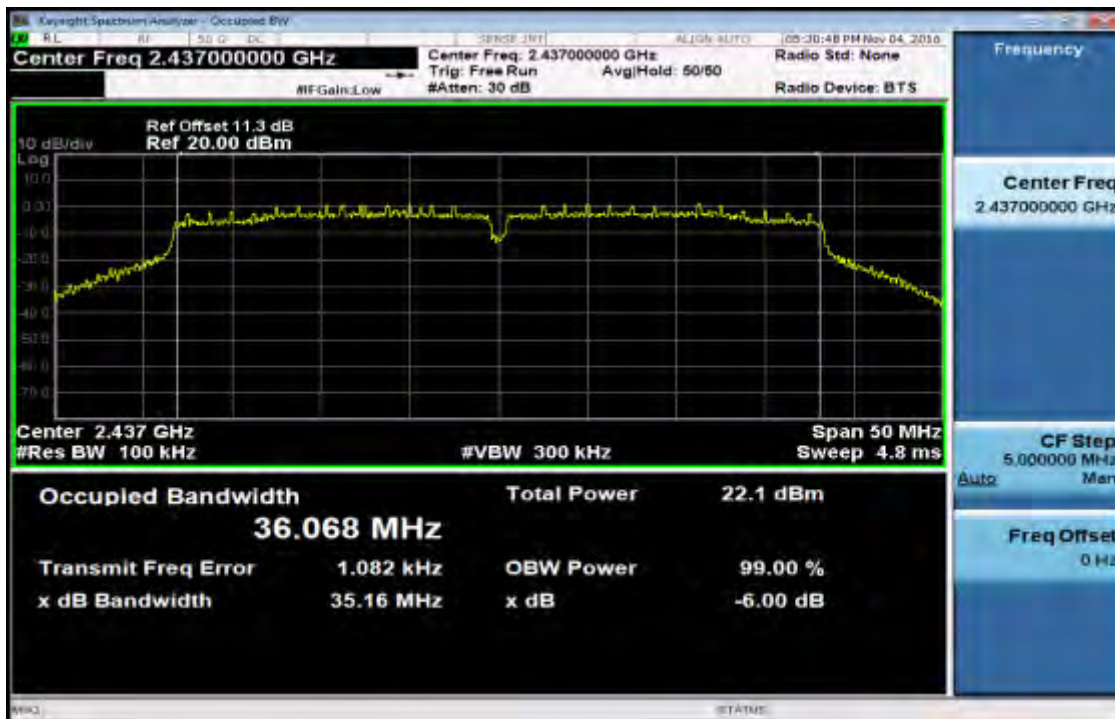
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802.11n_40M (Main) 6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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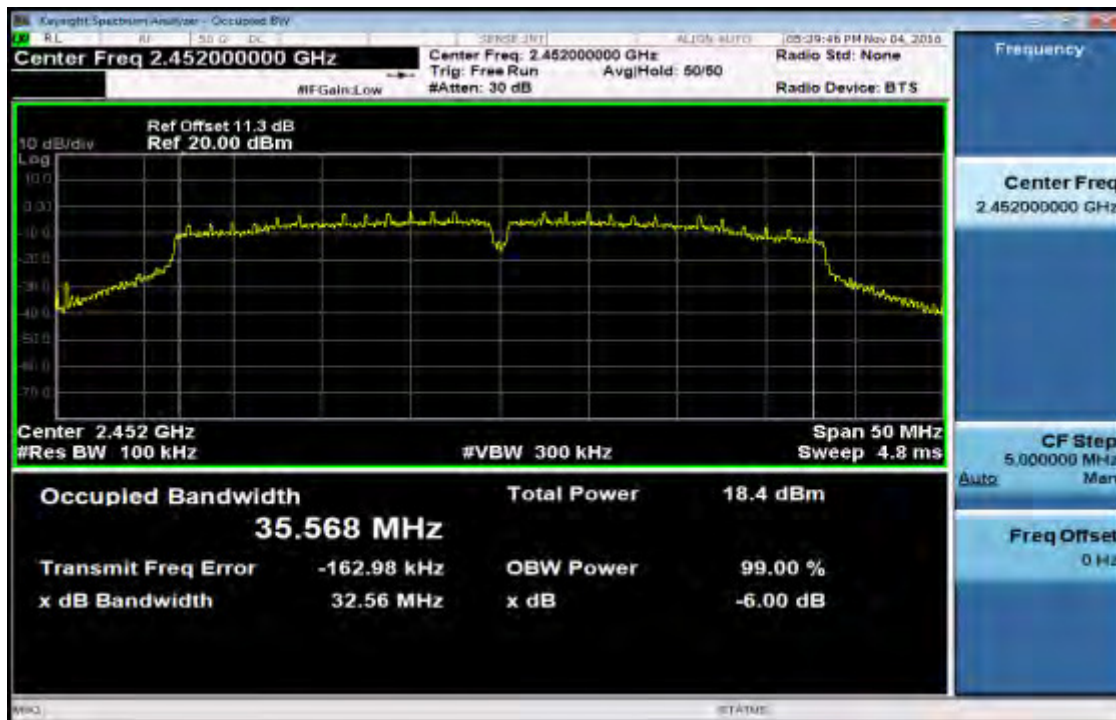
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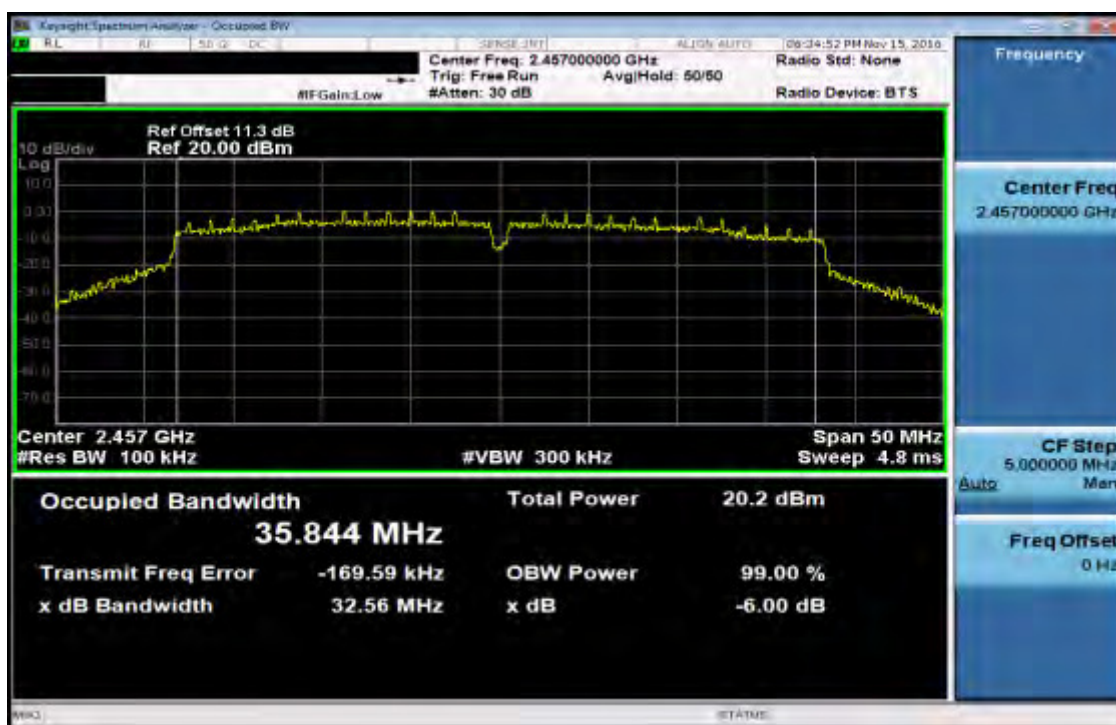
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-10



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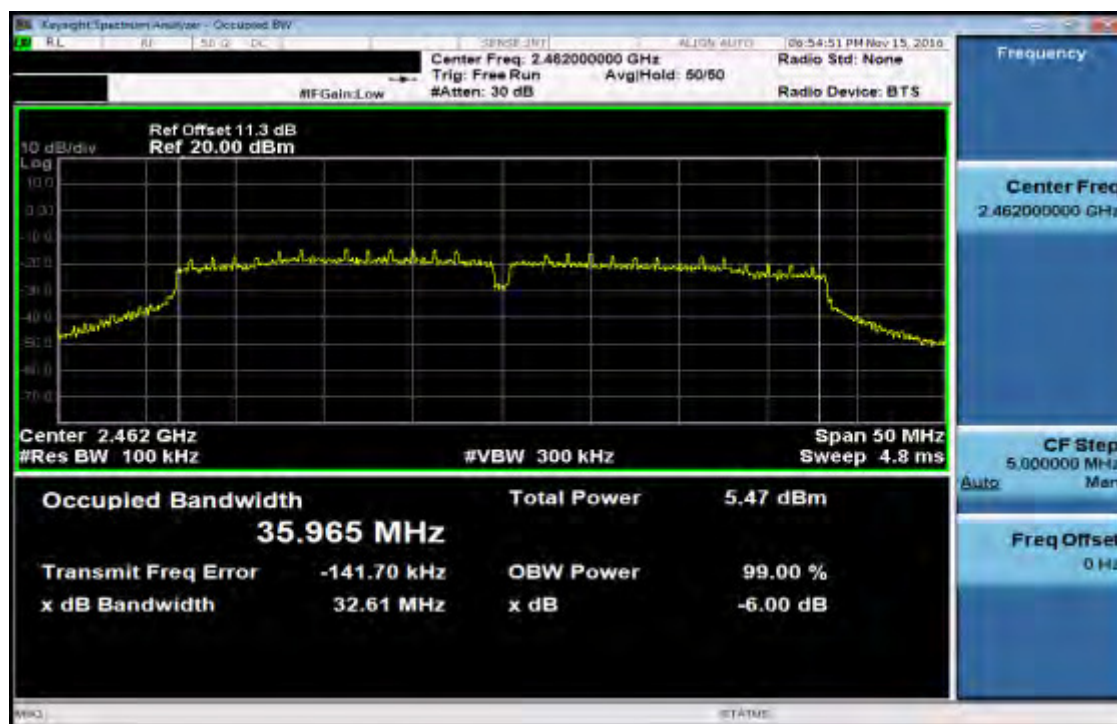
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6dB Band Width Test Data CH-11



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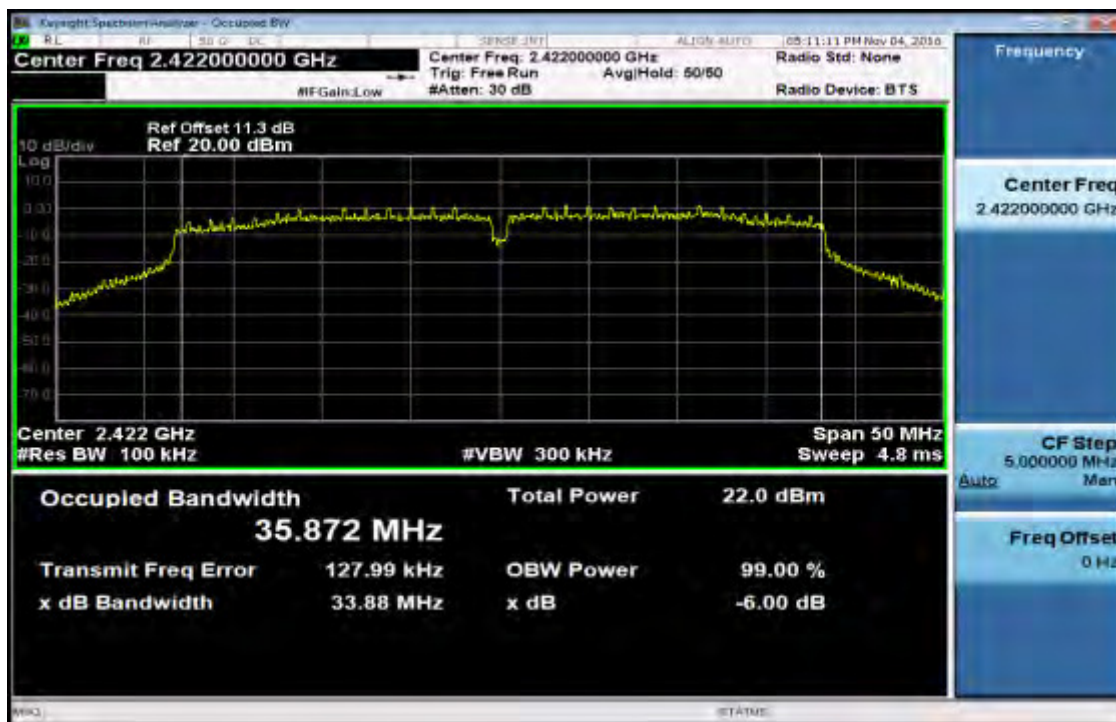
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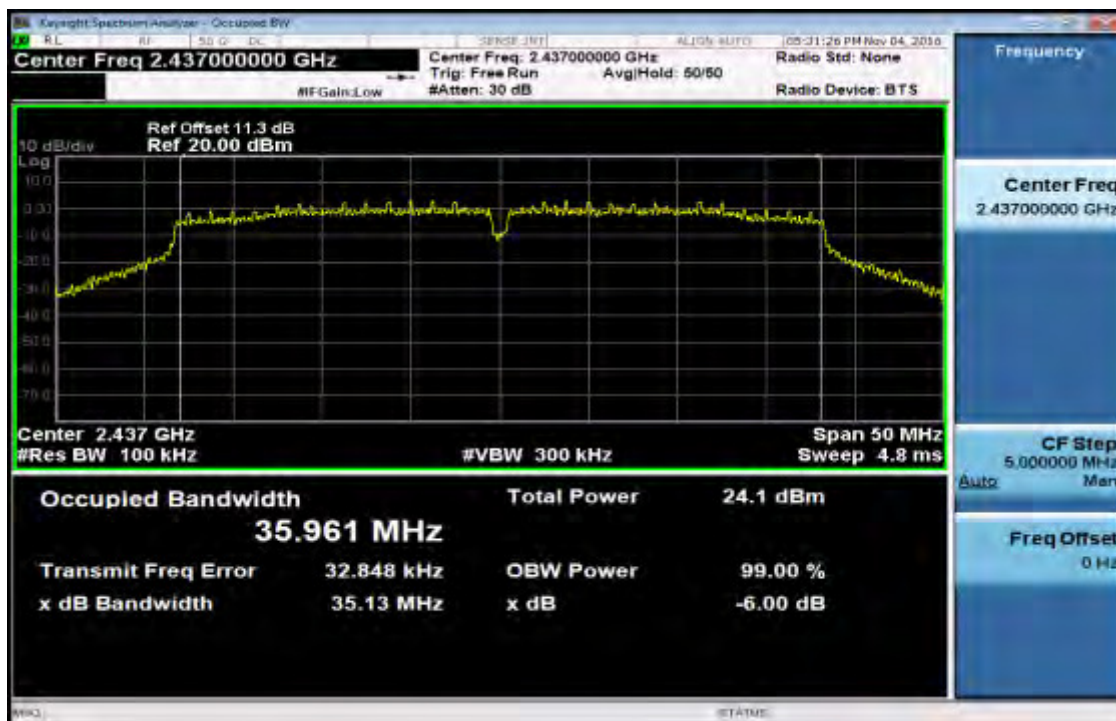
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802.11n_40M (Aux)

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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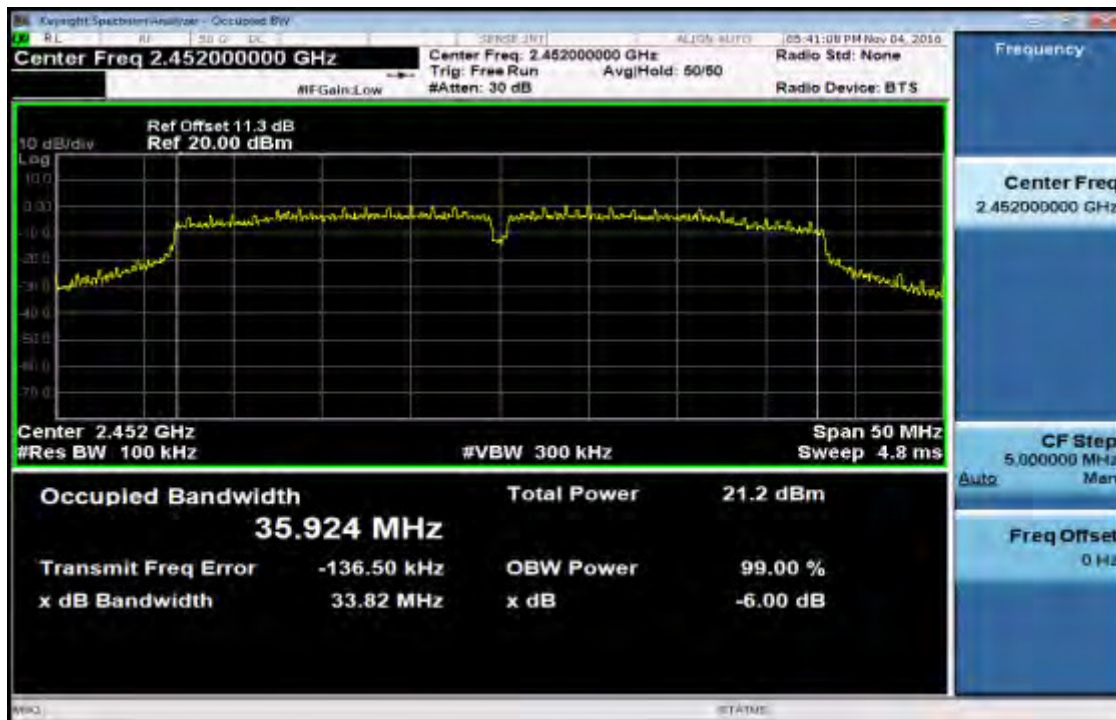
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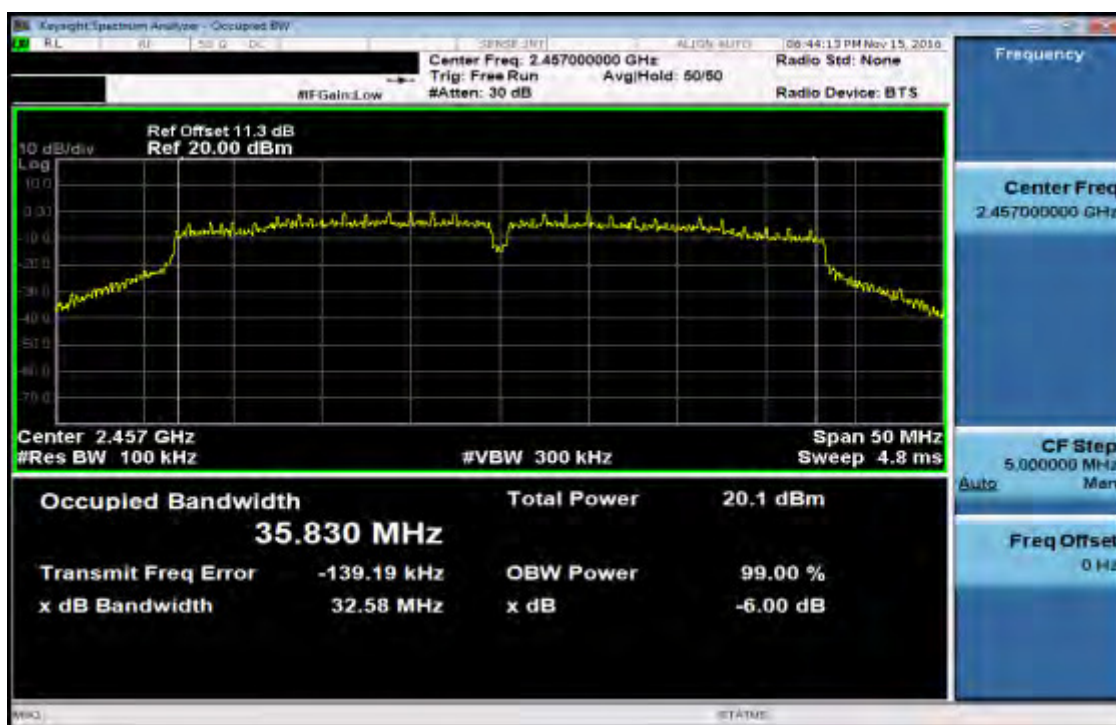
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6dB Band Width Test Data CH-High



6dB Band Width Test Data CH-10



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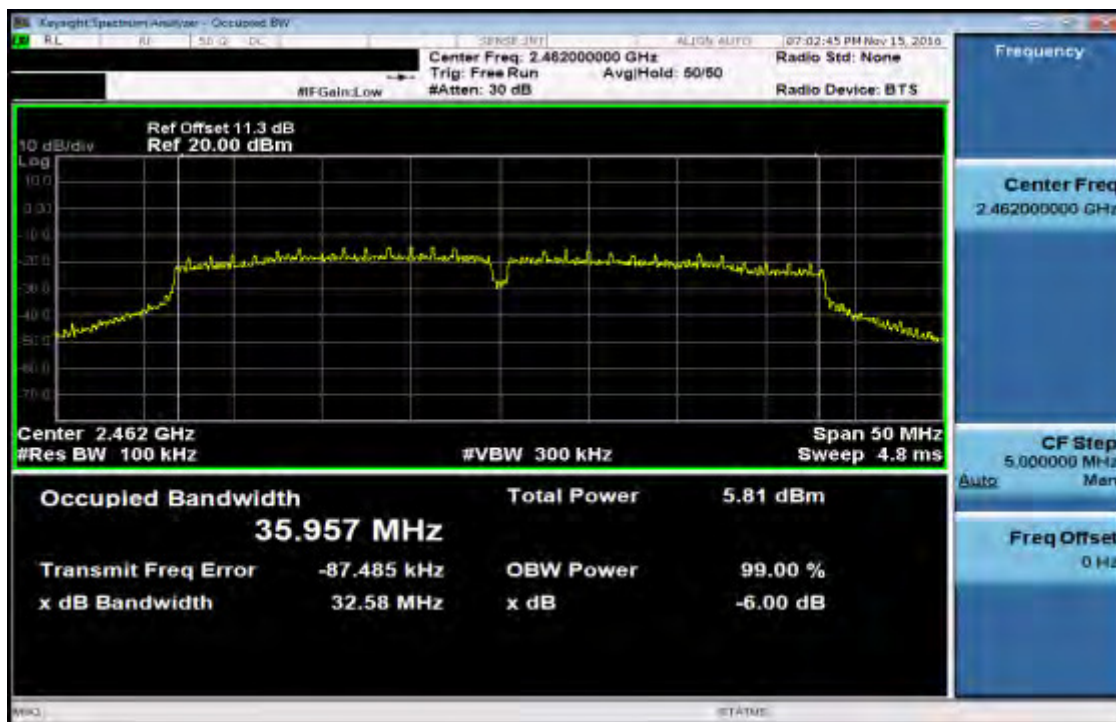
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6dB Band Width Test Data CH-11



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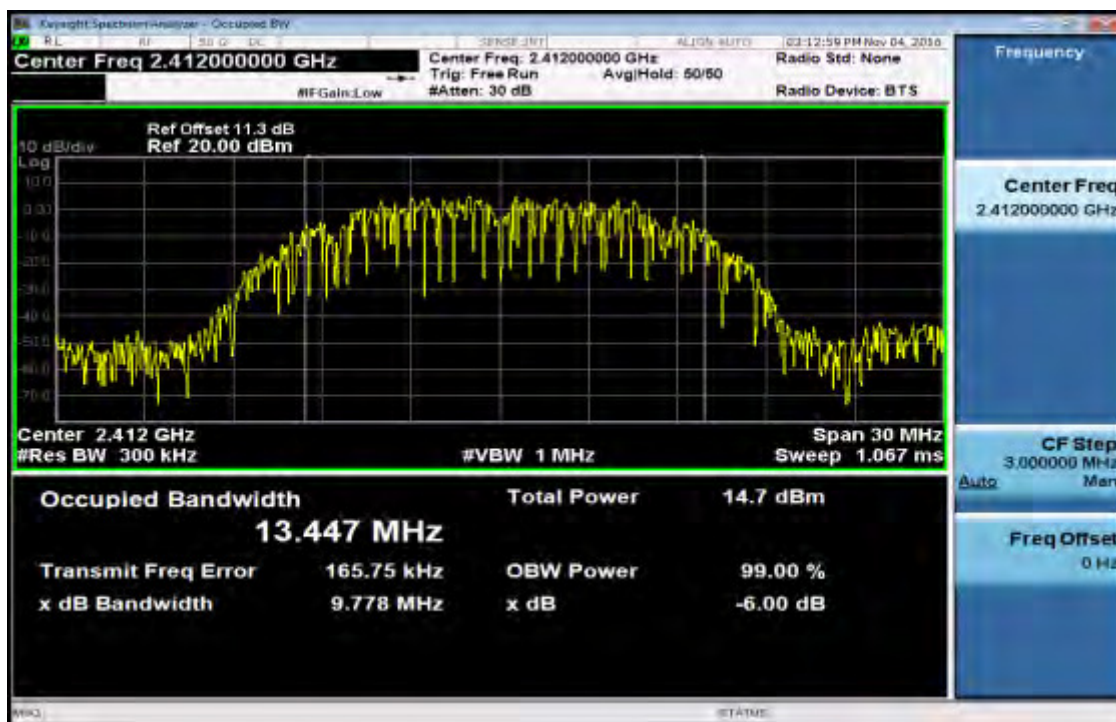
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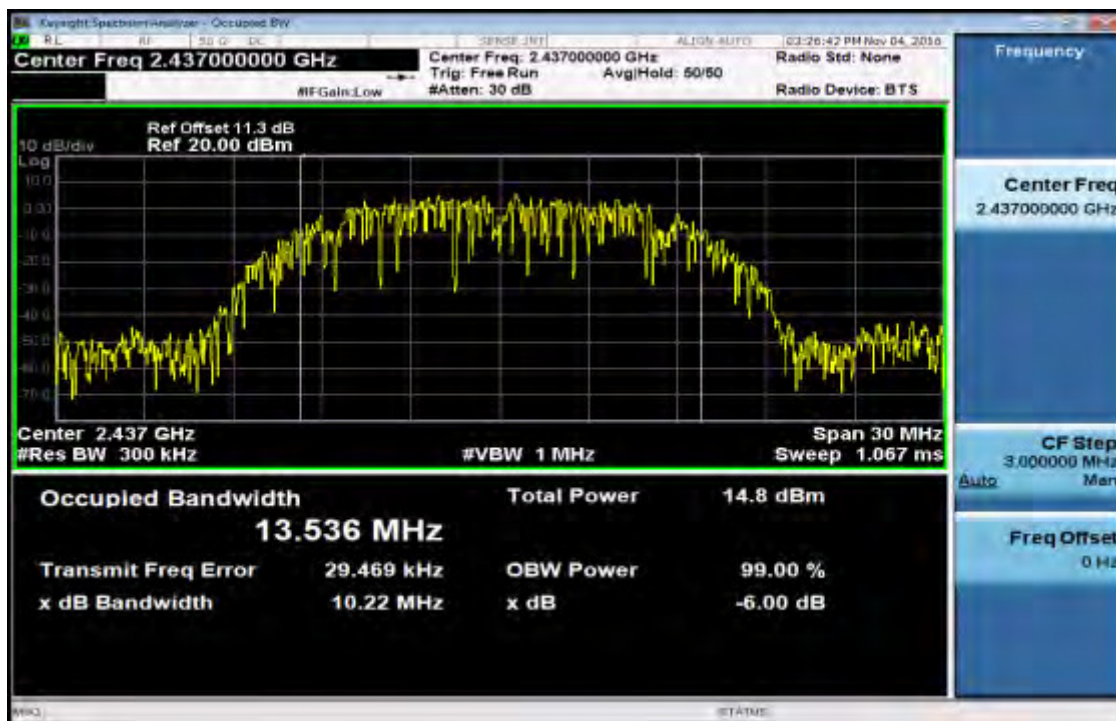
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802.11b (Aux) 99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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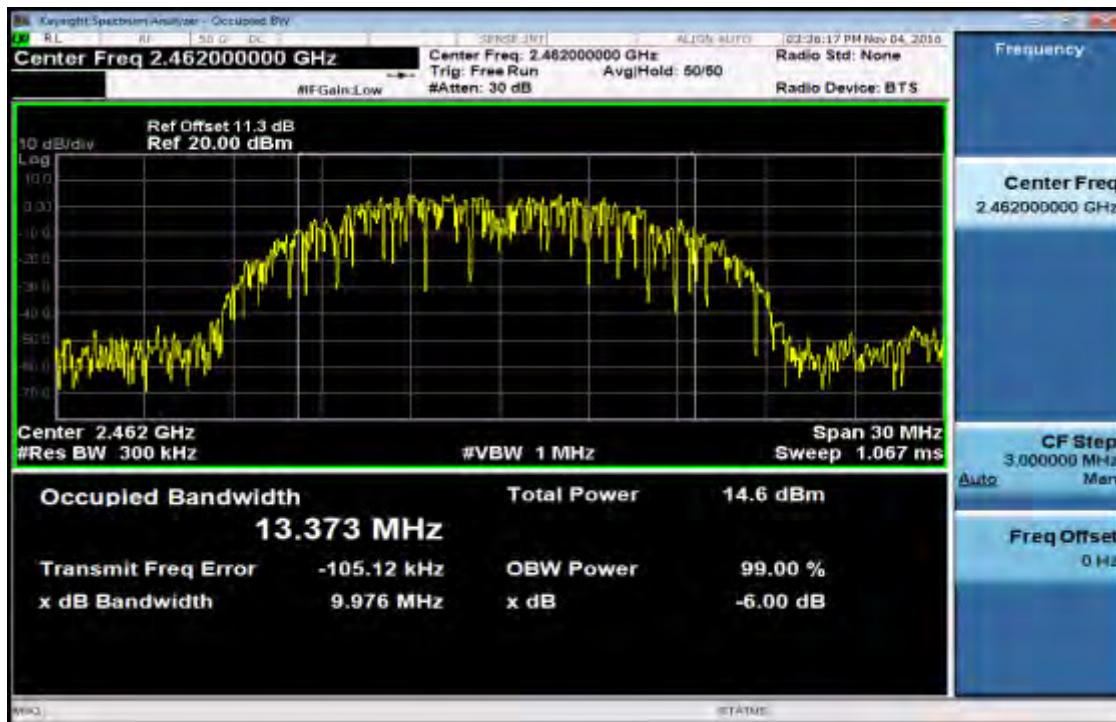
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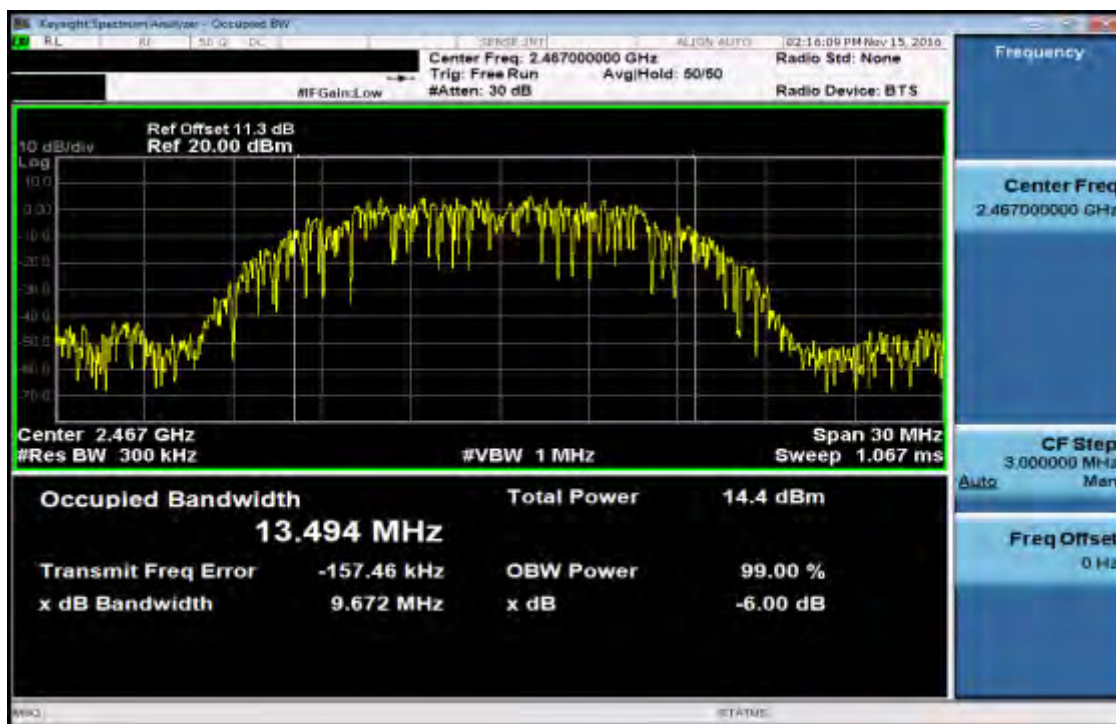
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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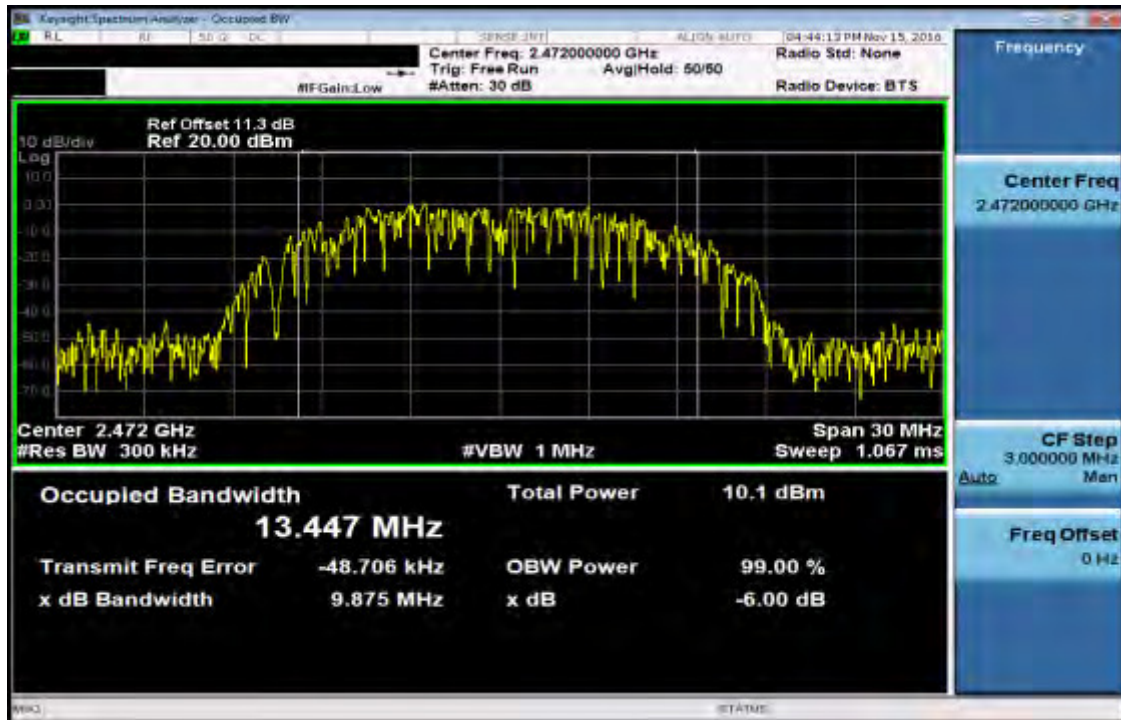
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99% Band Width Test Data CH-13



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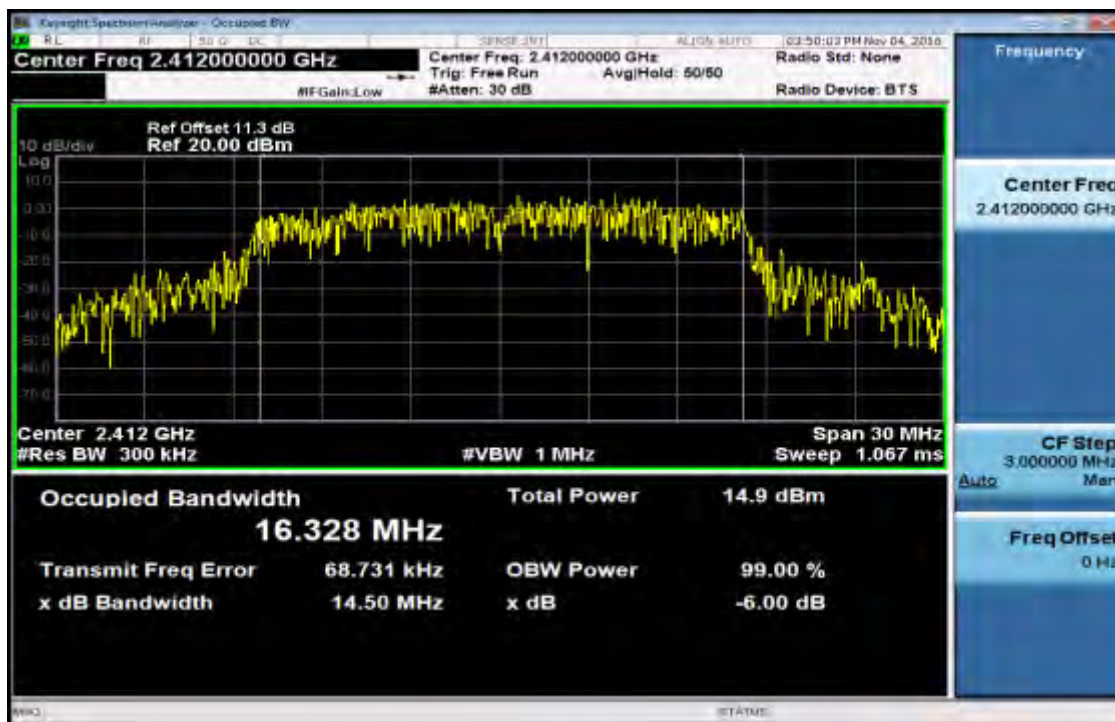
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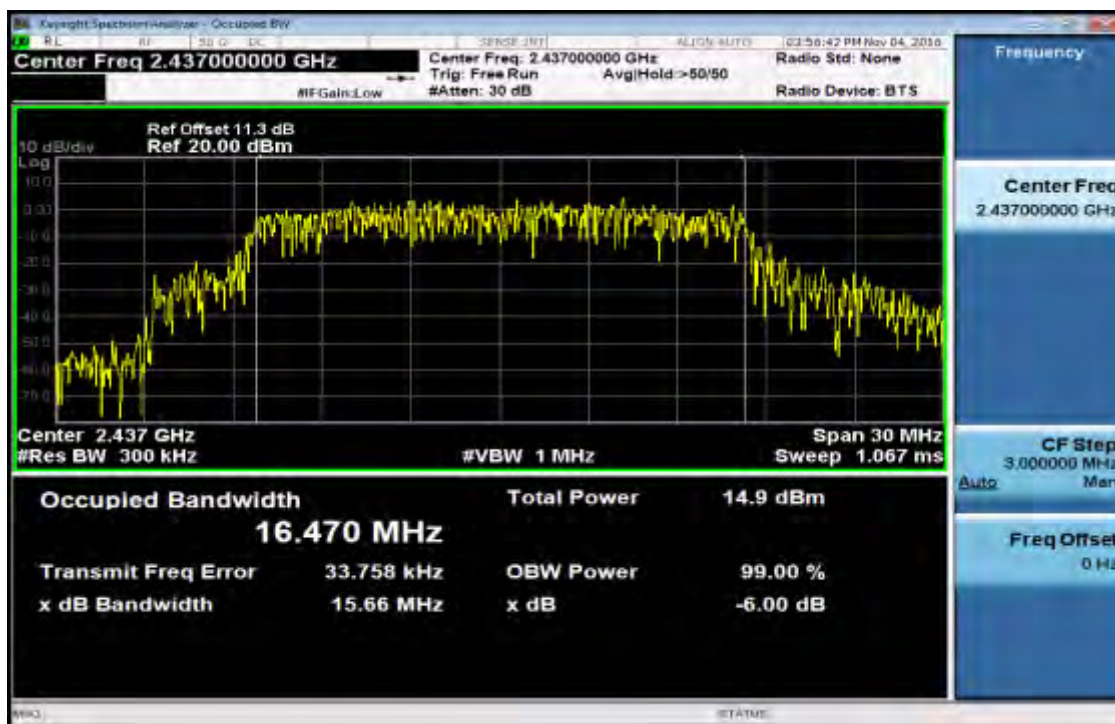
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802.11g (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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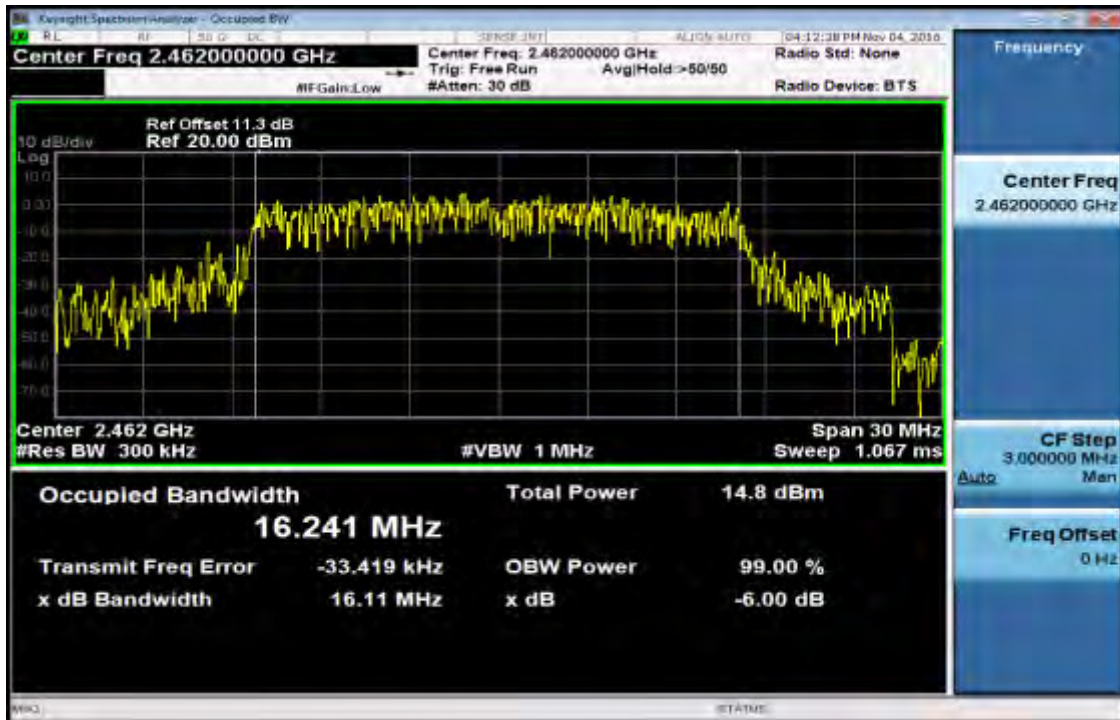
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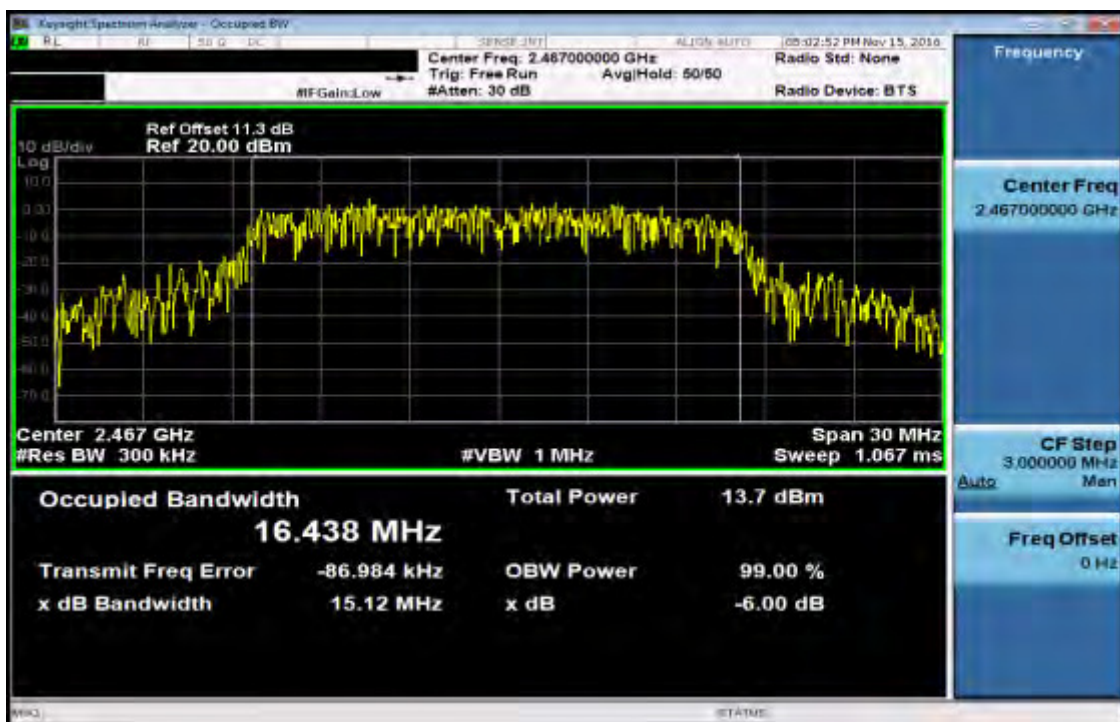
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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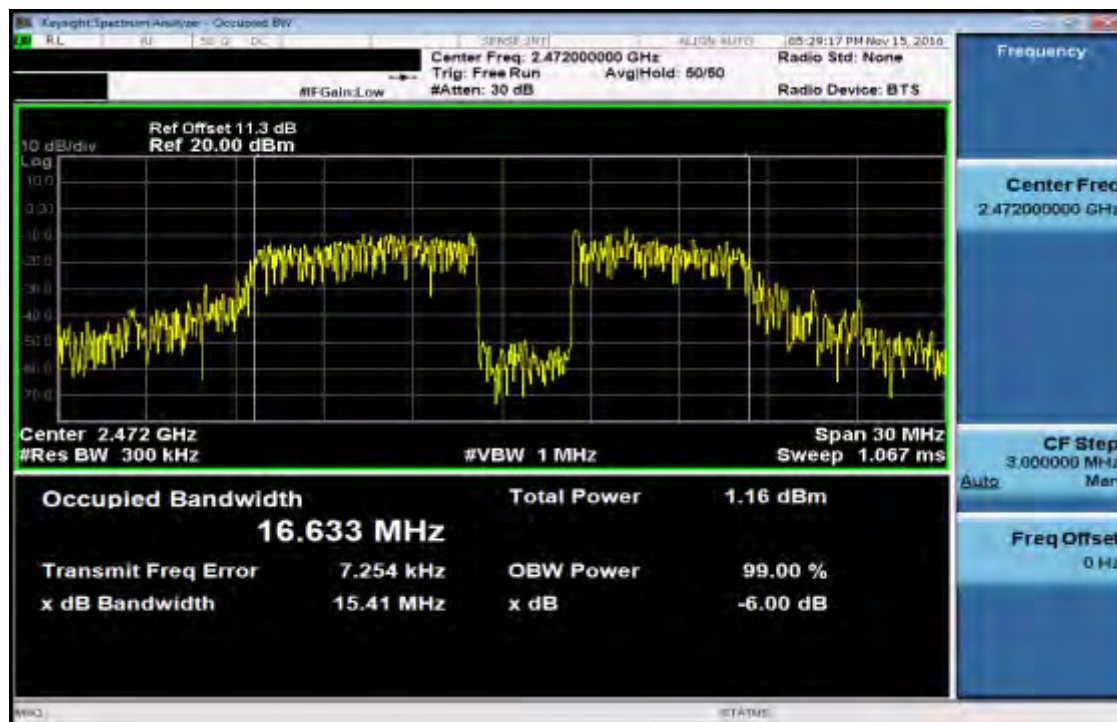
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99% Band Width Test Data CH-13



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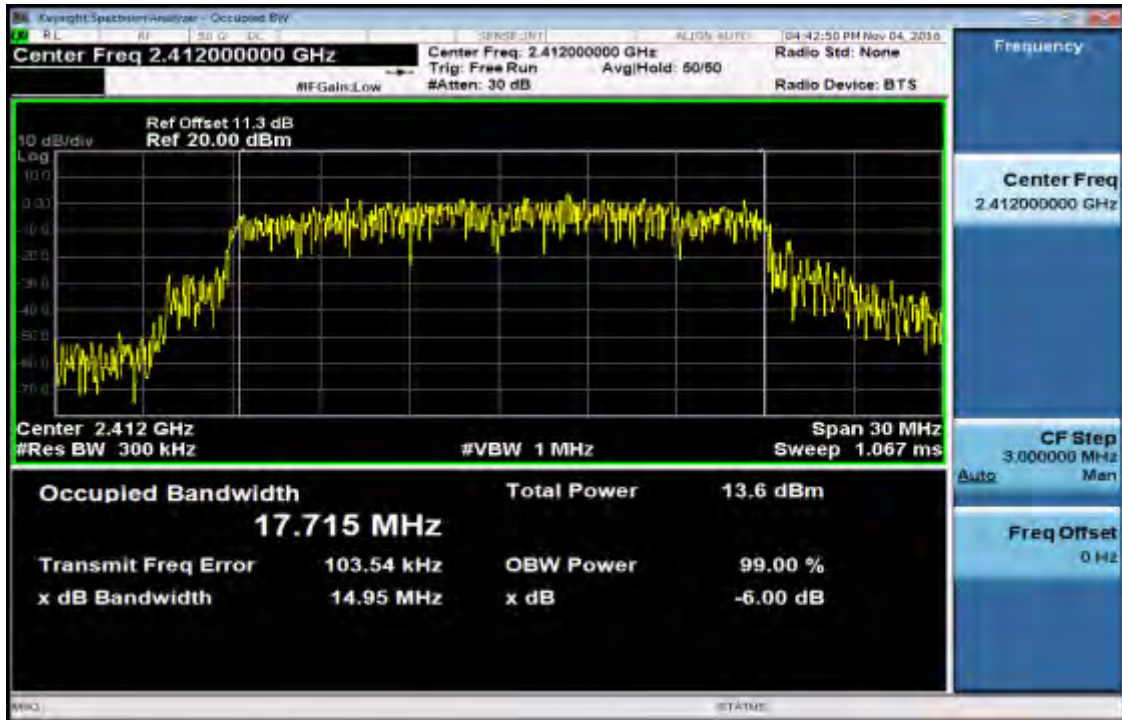
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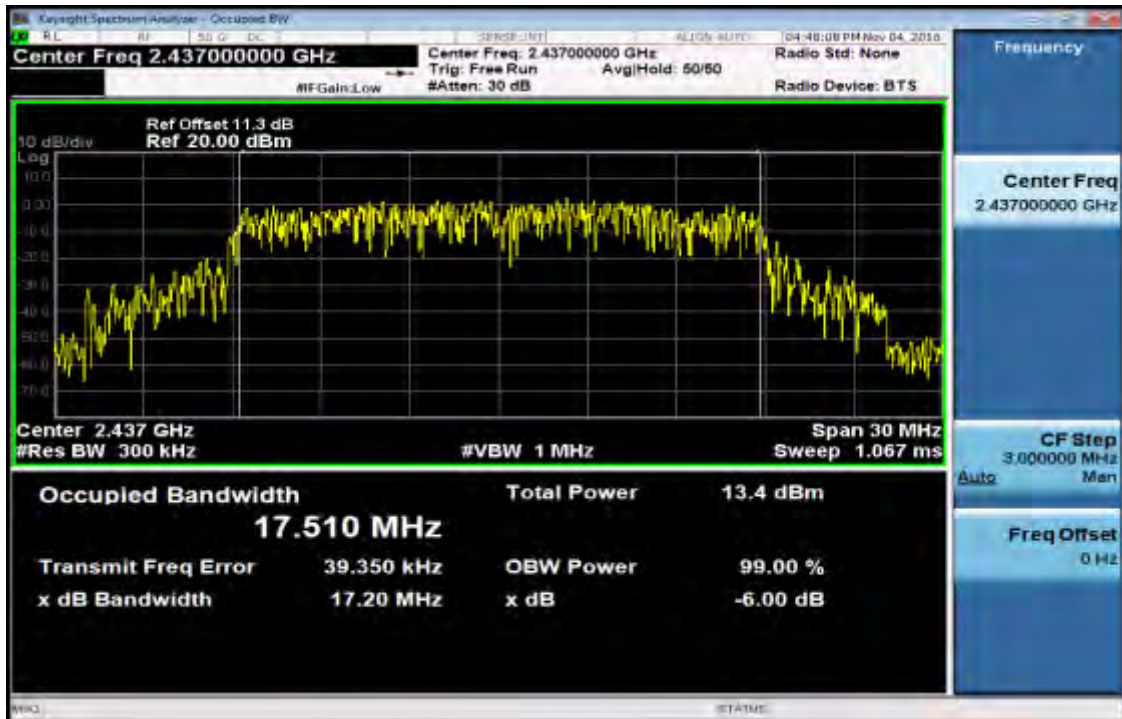
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802.11n_20M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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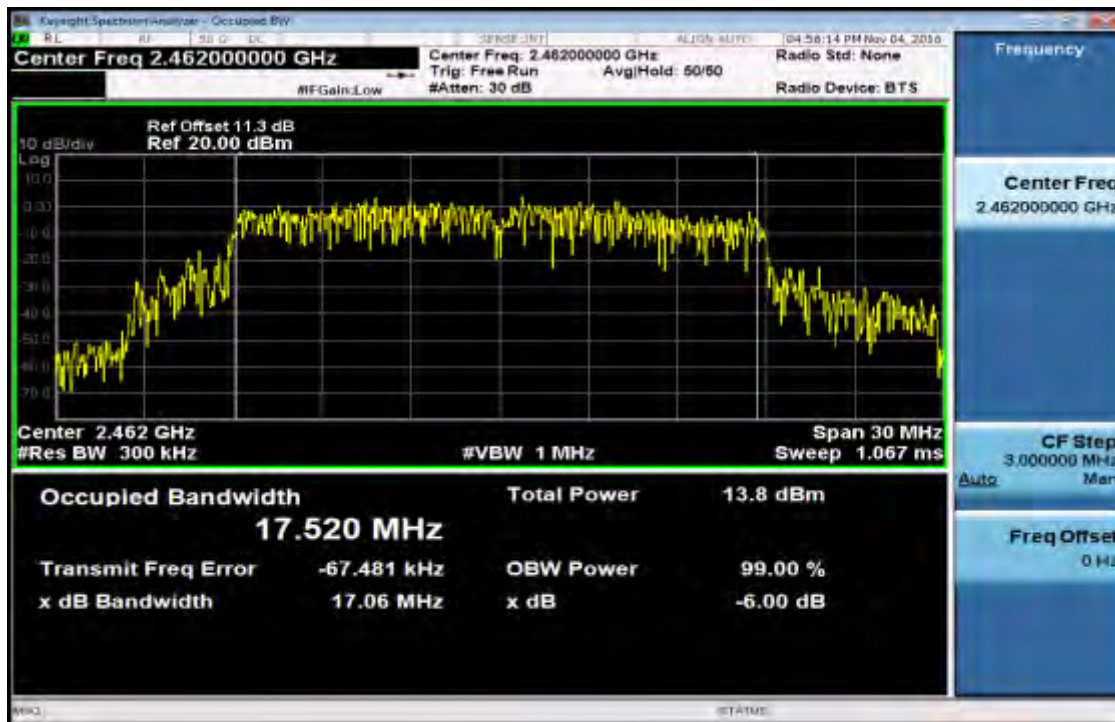
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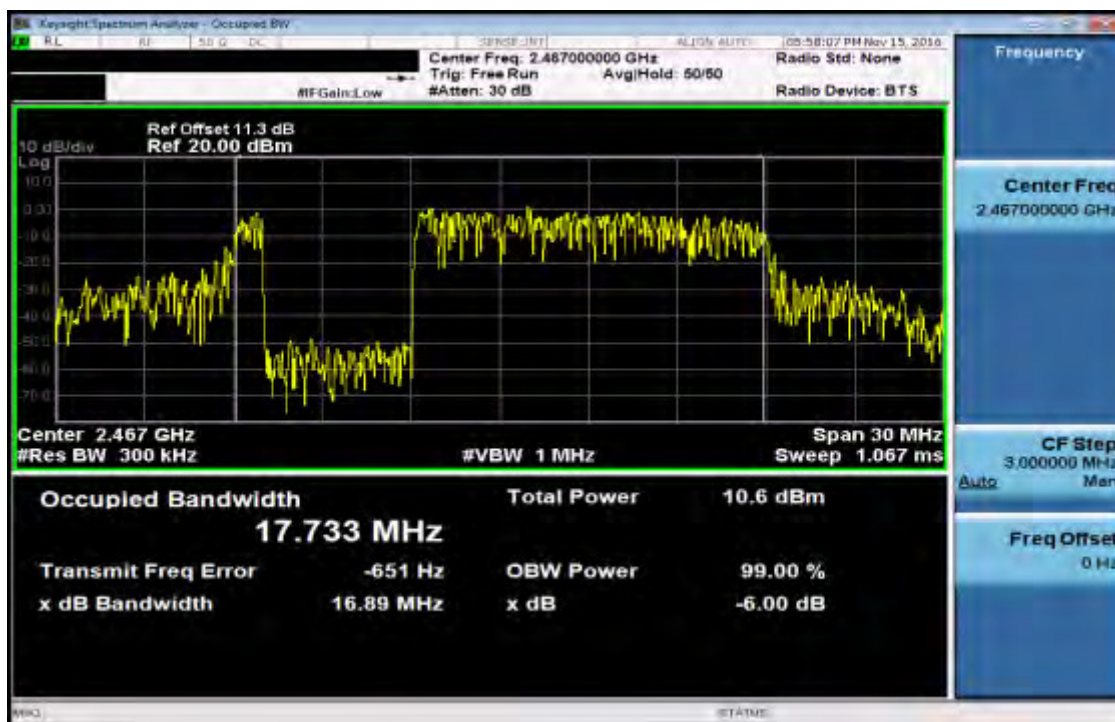
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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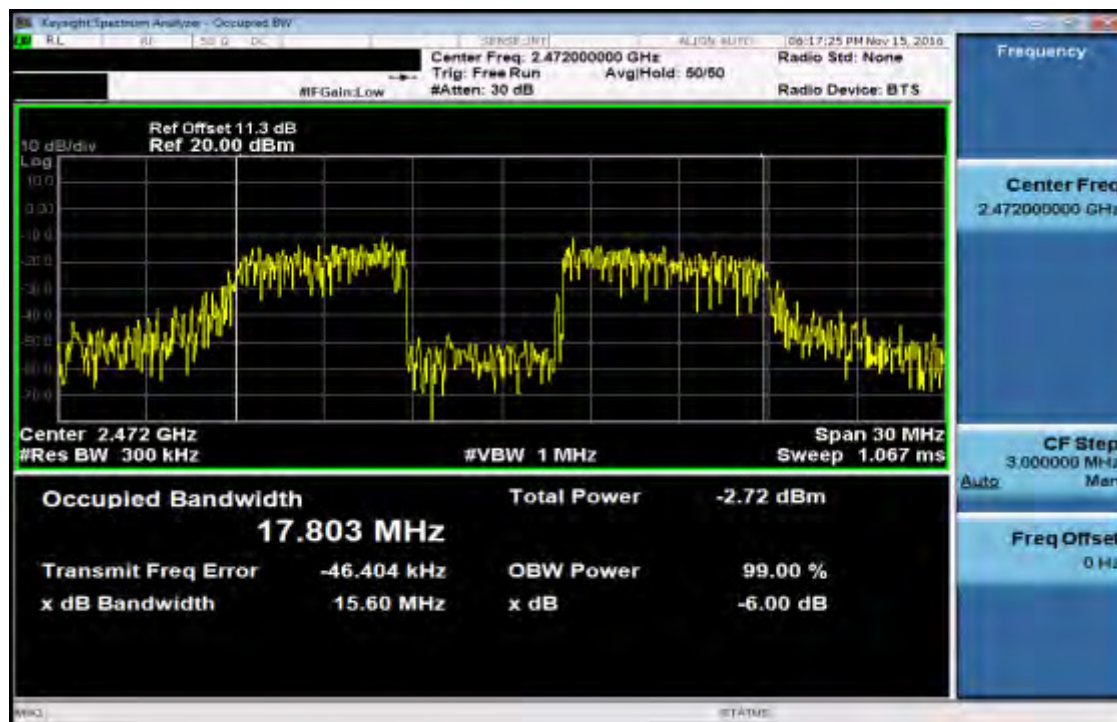
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99% Band Width Test Data CH-13



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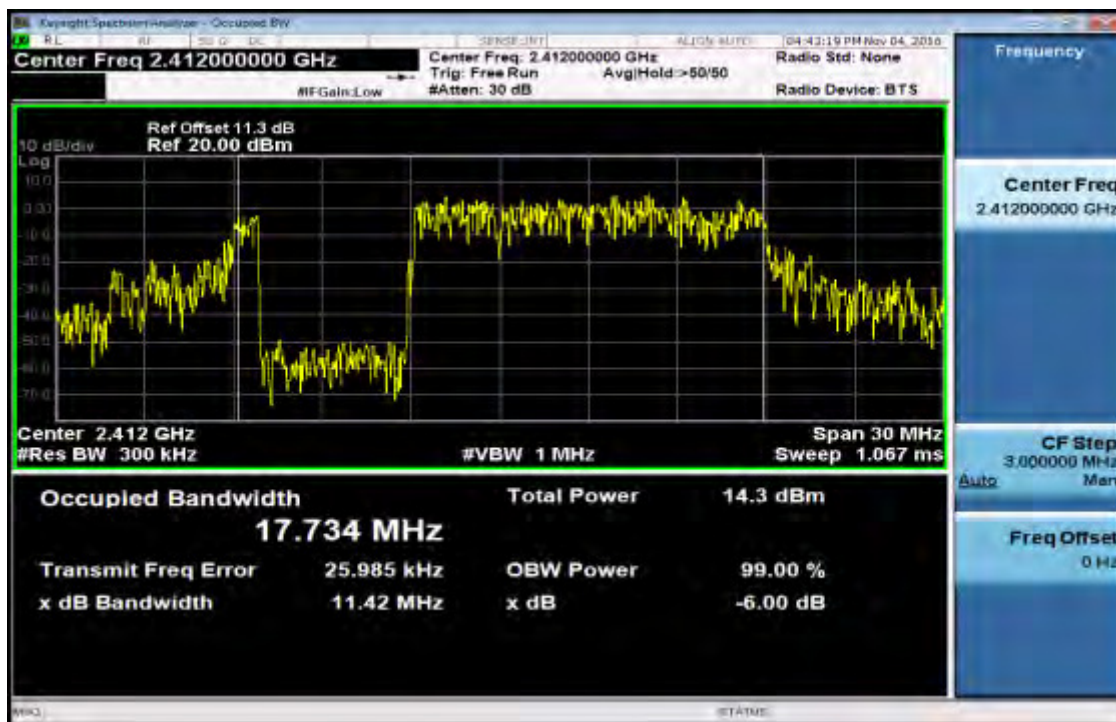
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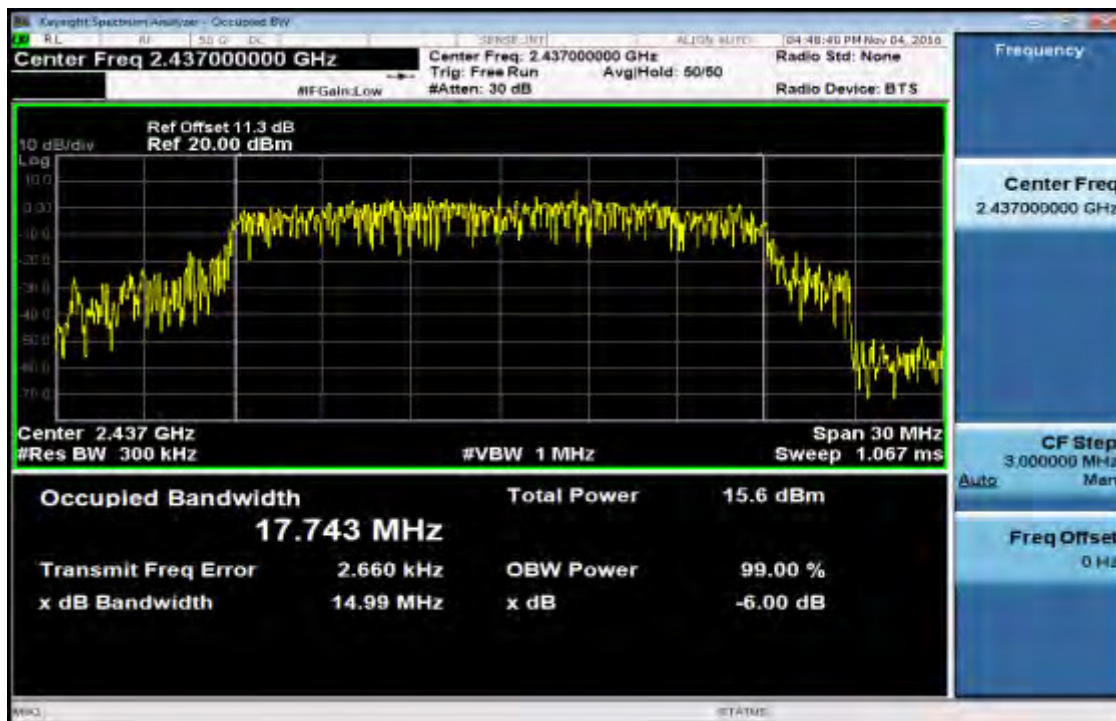
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802.11n_20M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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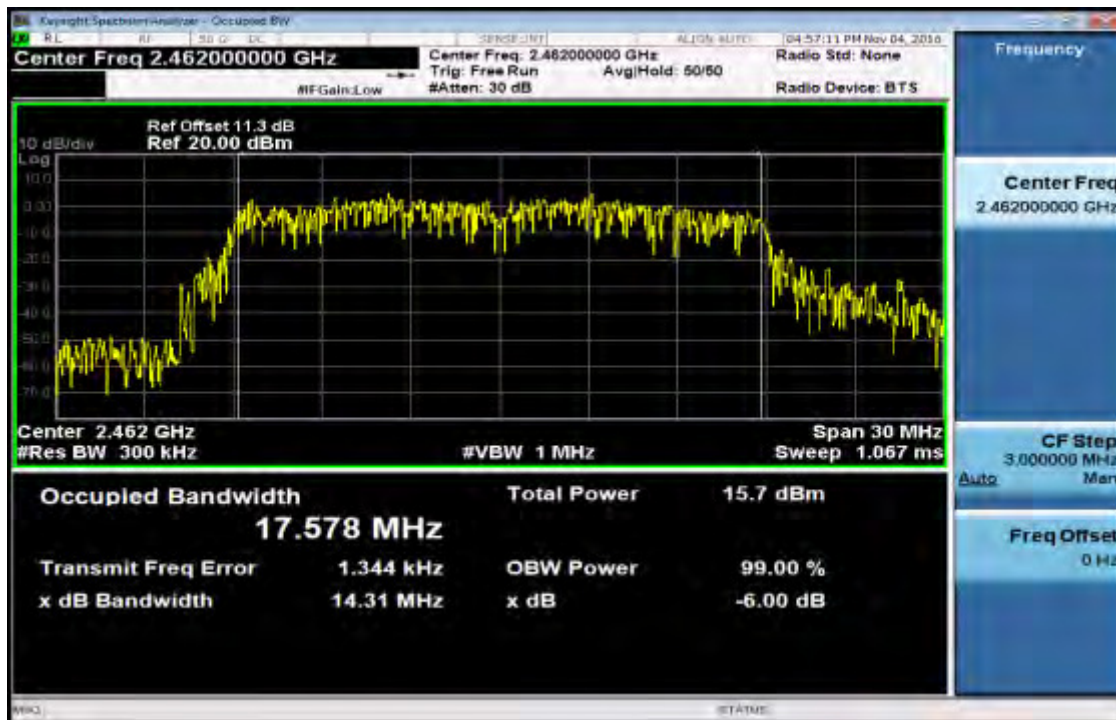
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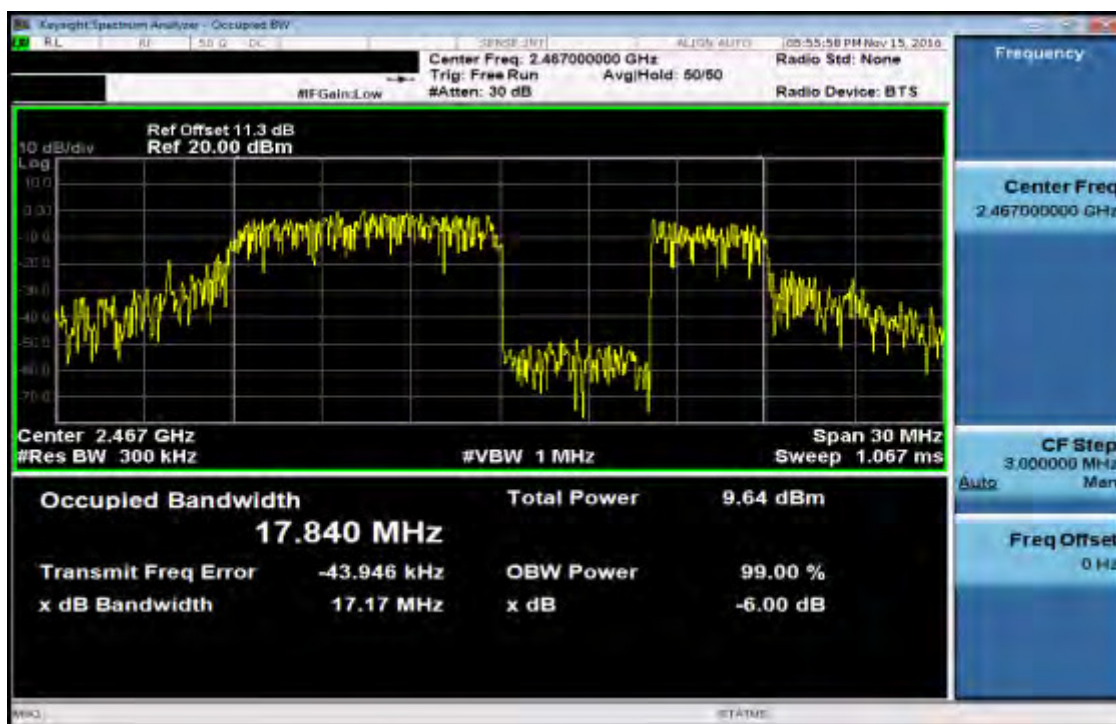
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-12



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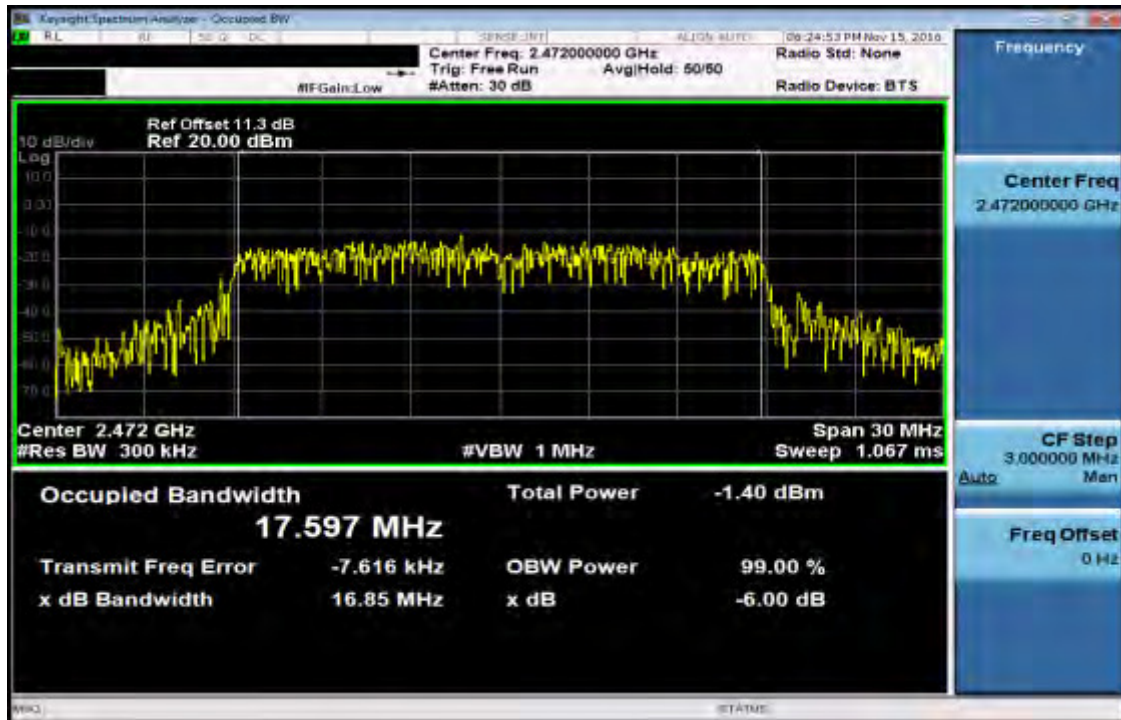
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99% Band Width Test Data CH-13



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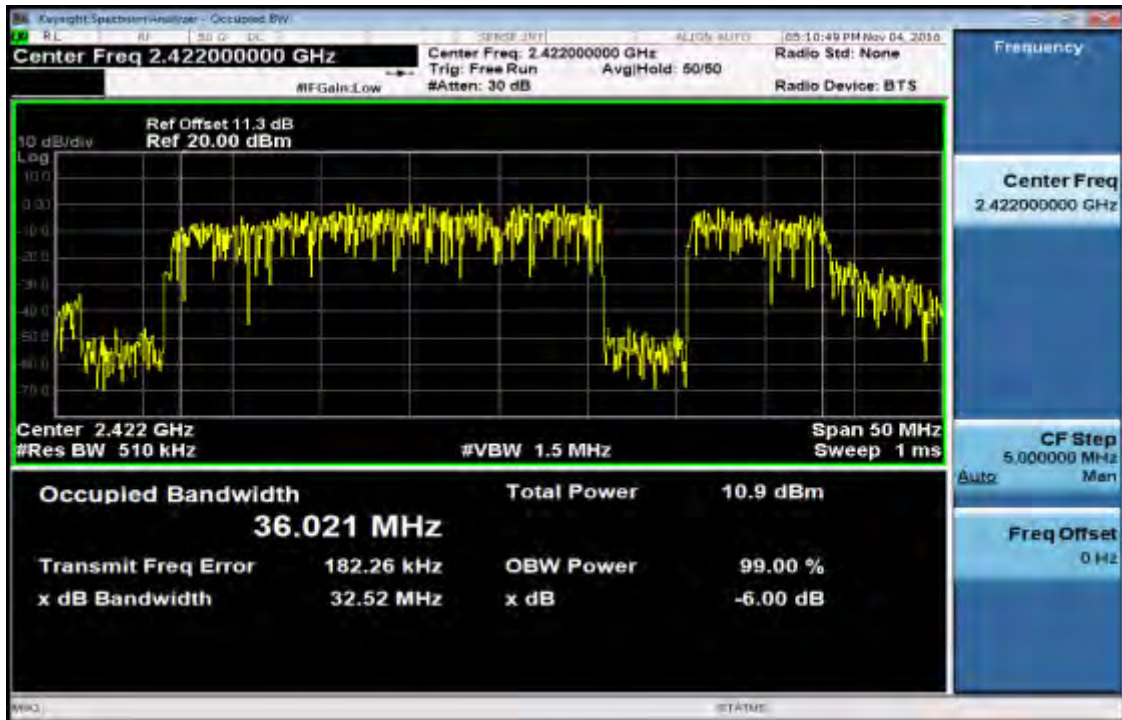
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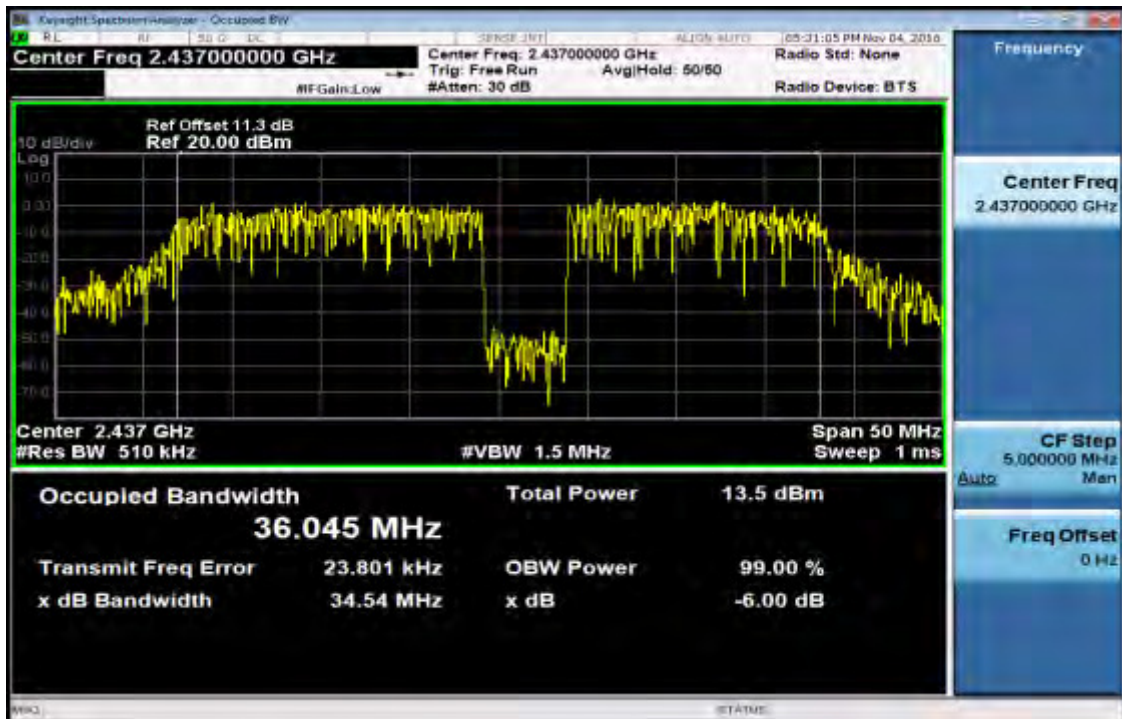
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802.11n_40M (Main)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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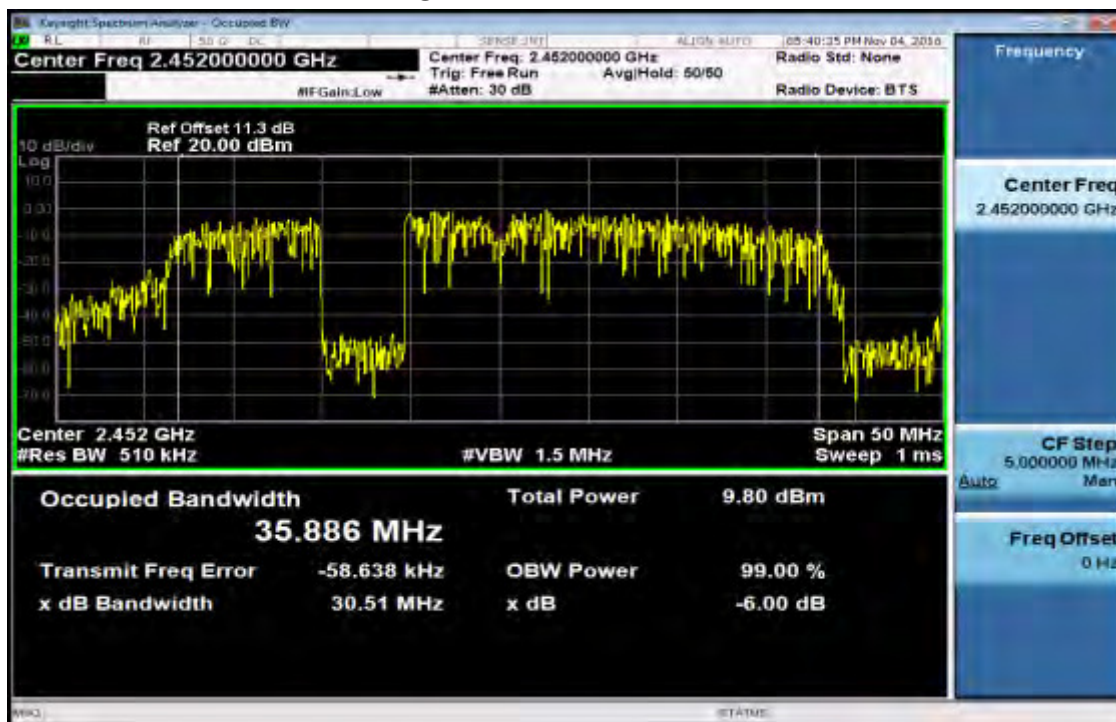
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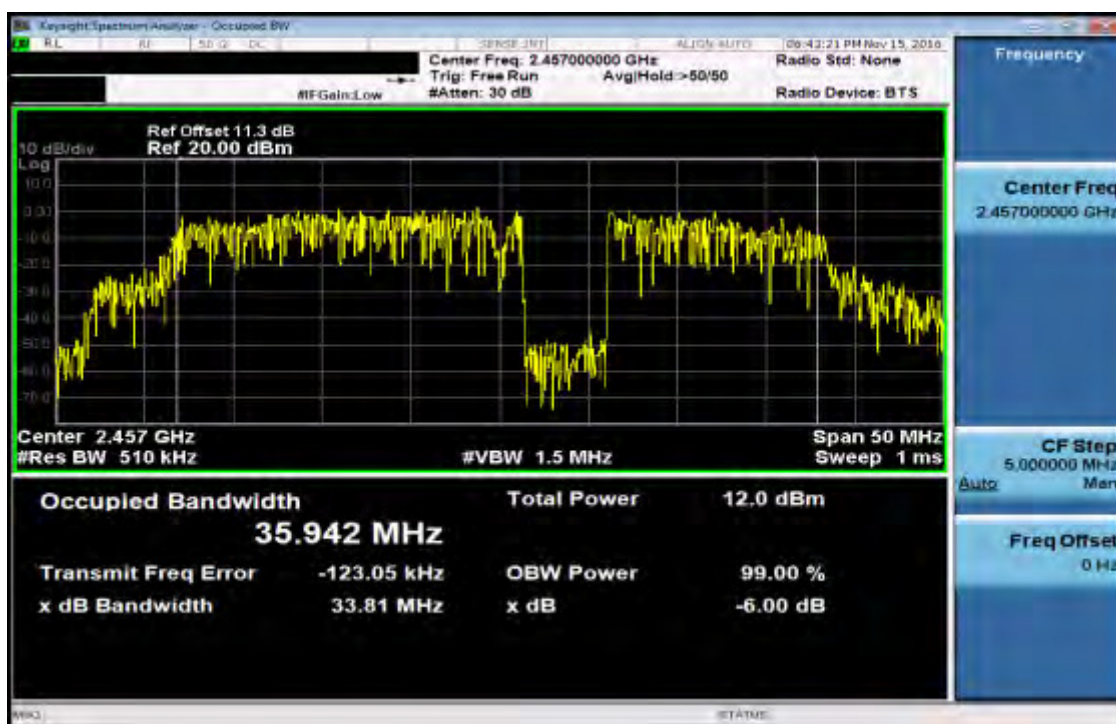
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-10



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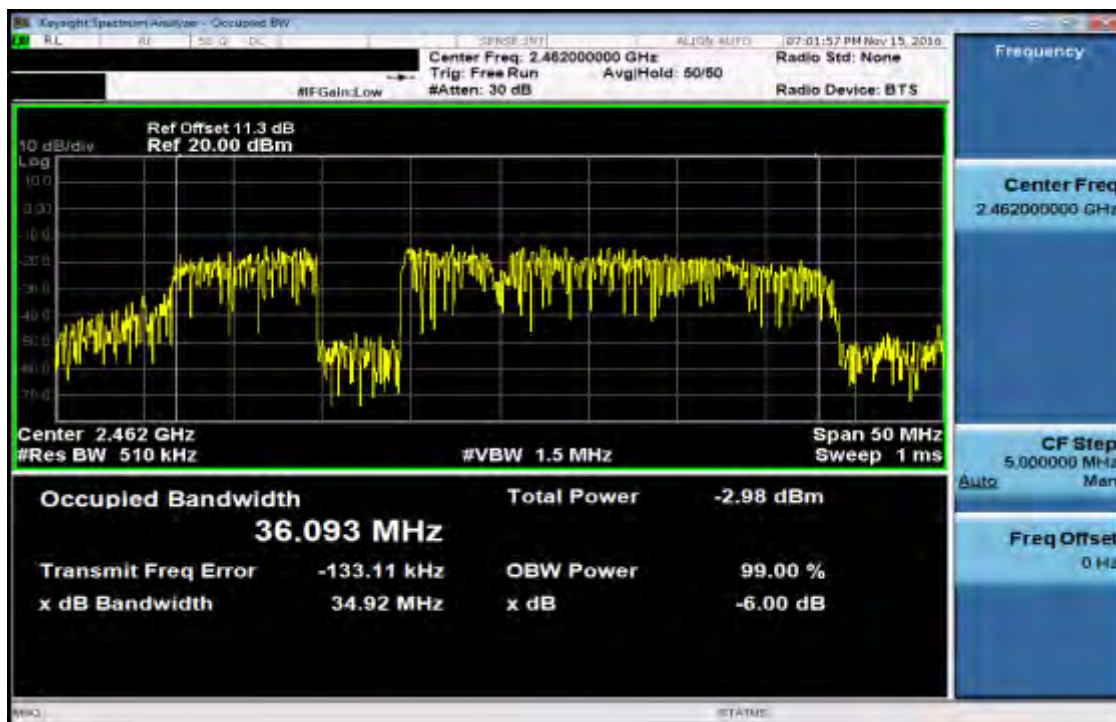
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99% Band Width Test Data CH-11



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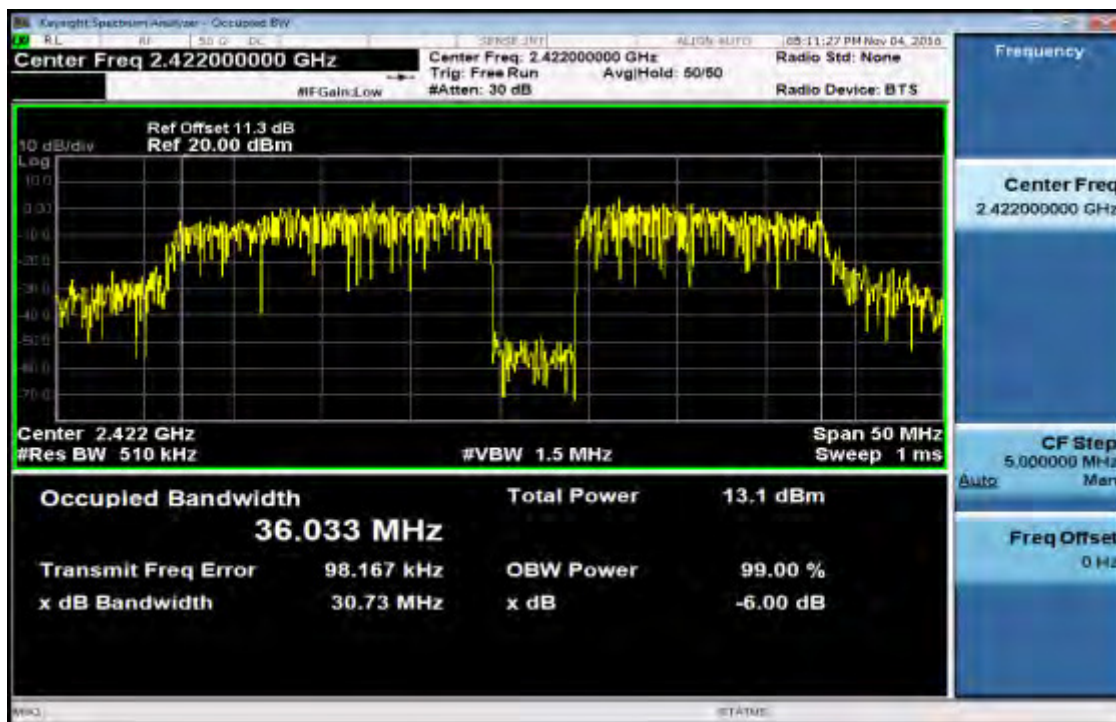
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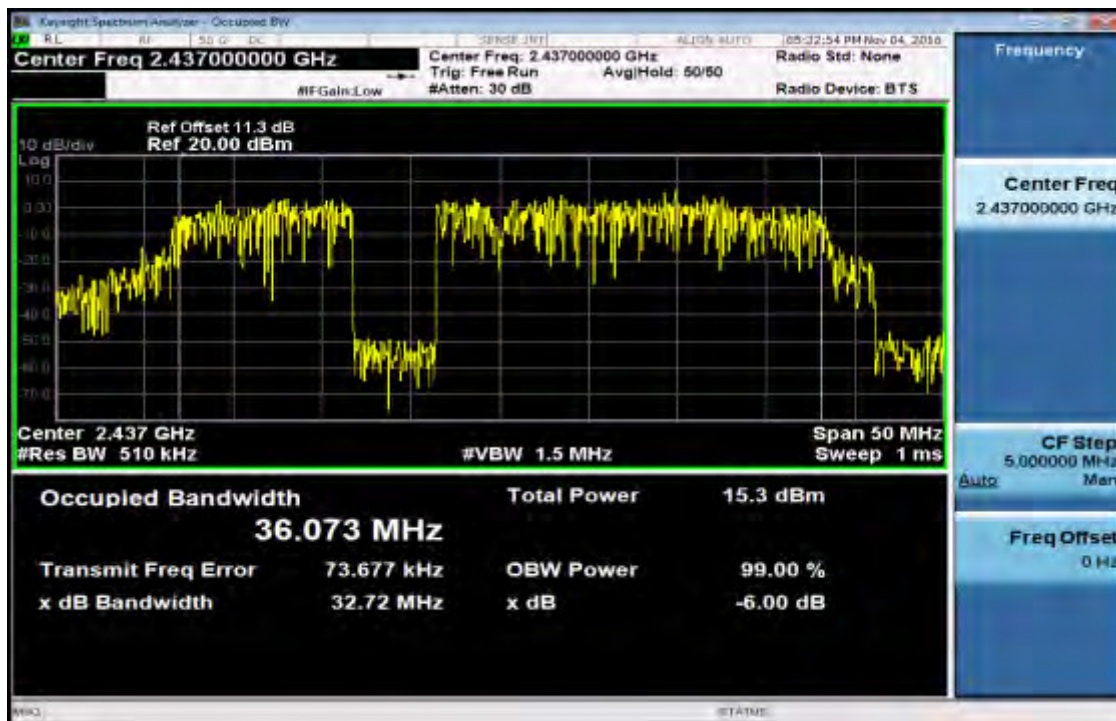
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802.11n_40M (Aux)

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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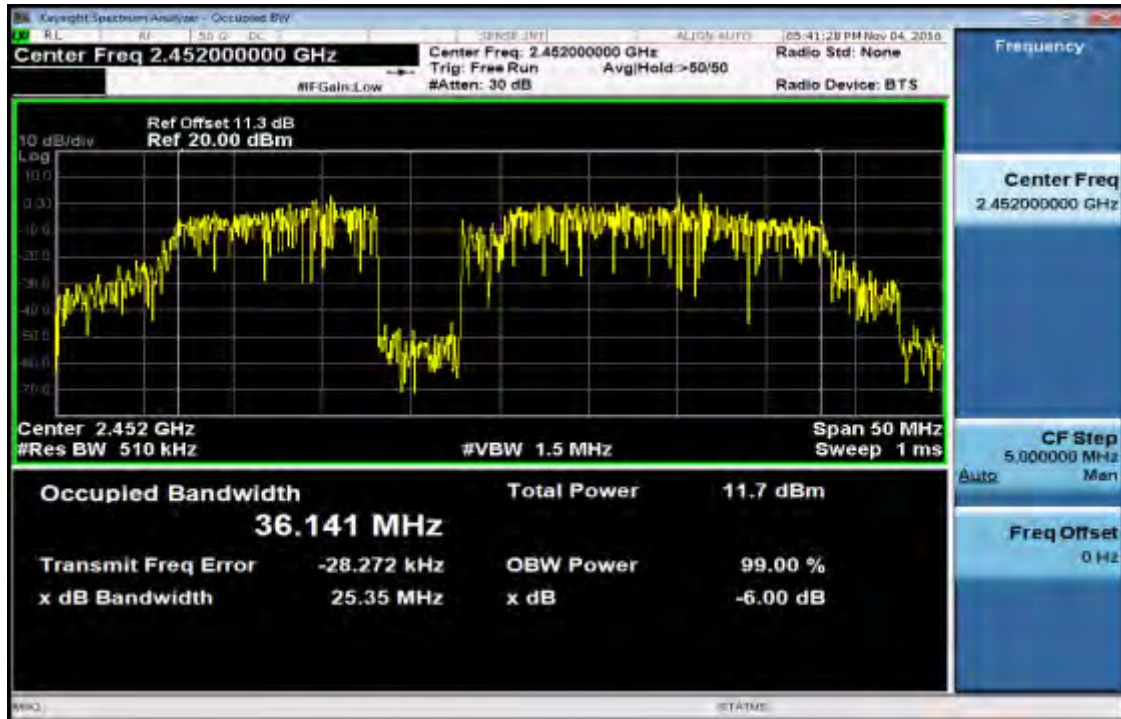
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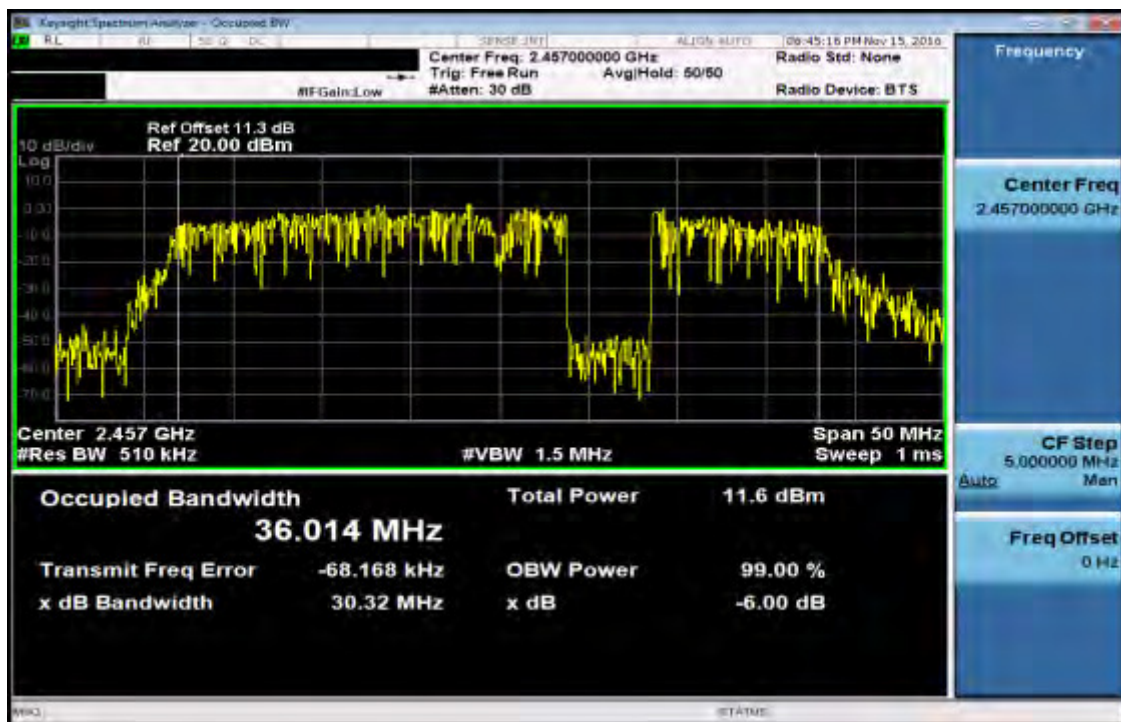
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99% Band Width Test Data CH-High



99% Band Width Test Data CH-10



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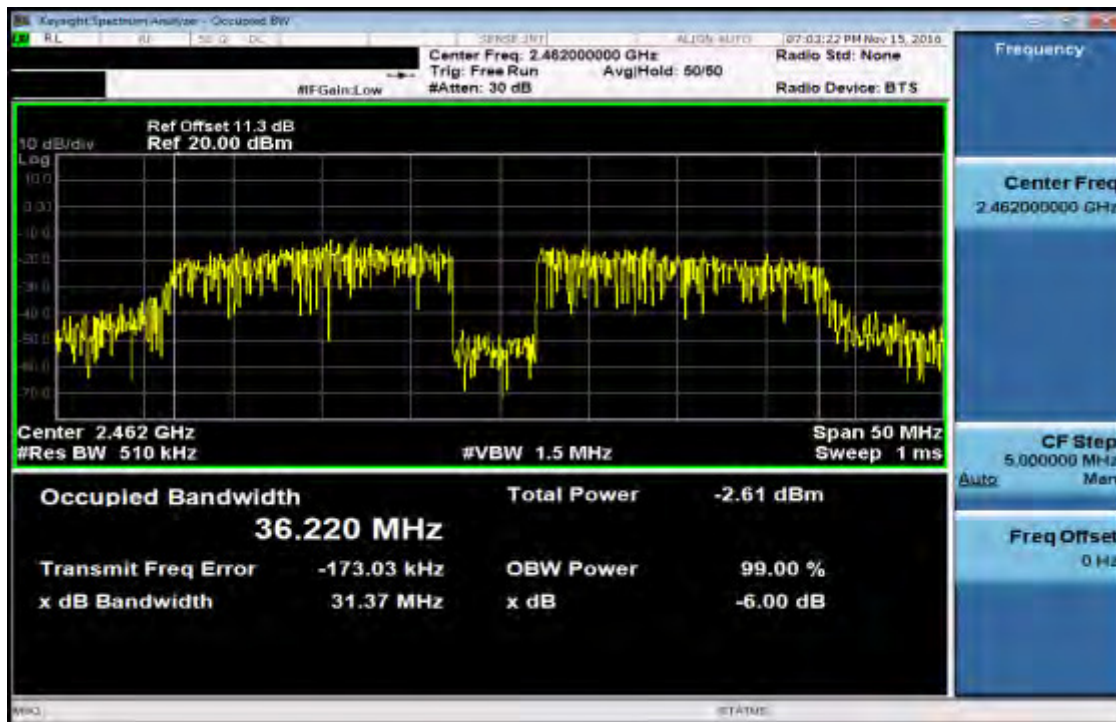
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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.

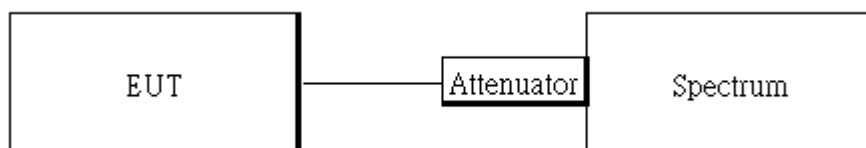
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.8.

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	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	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

1. *Refer to next page spectrum analyzer data chart and tabular data sheets.*
2. *For restricted Band Edge Limit, please refer to section 12.5 of this report for measurement result.*

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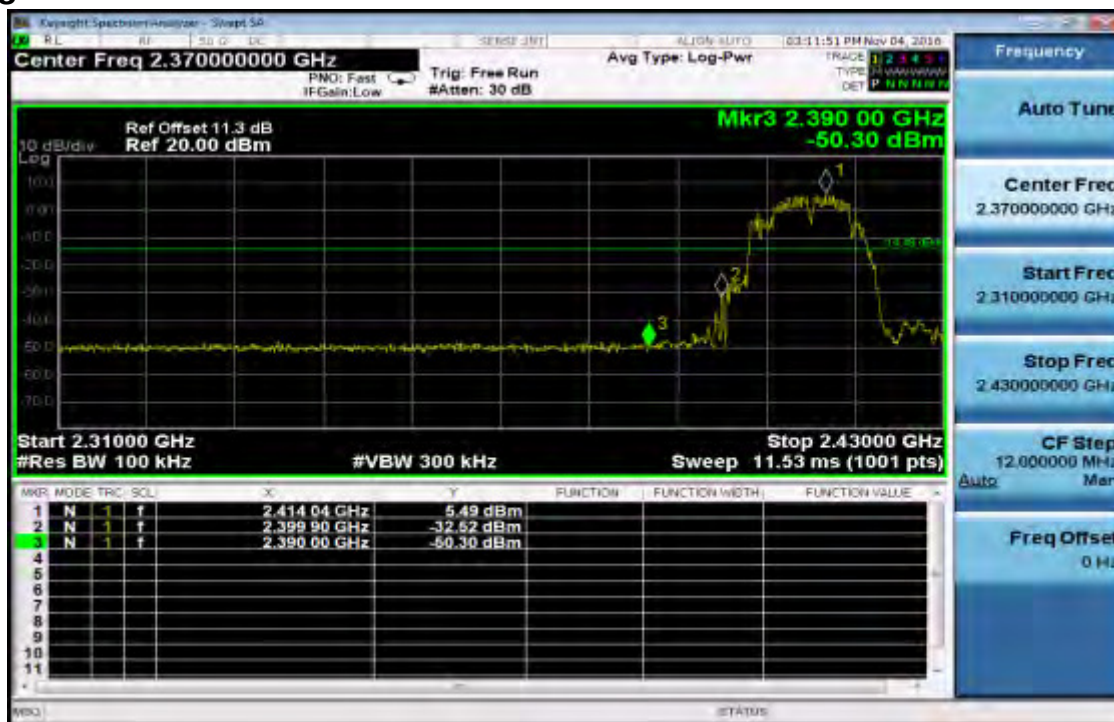
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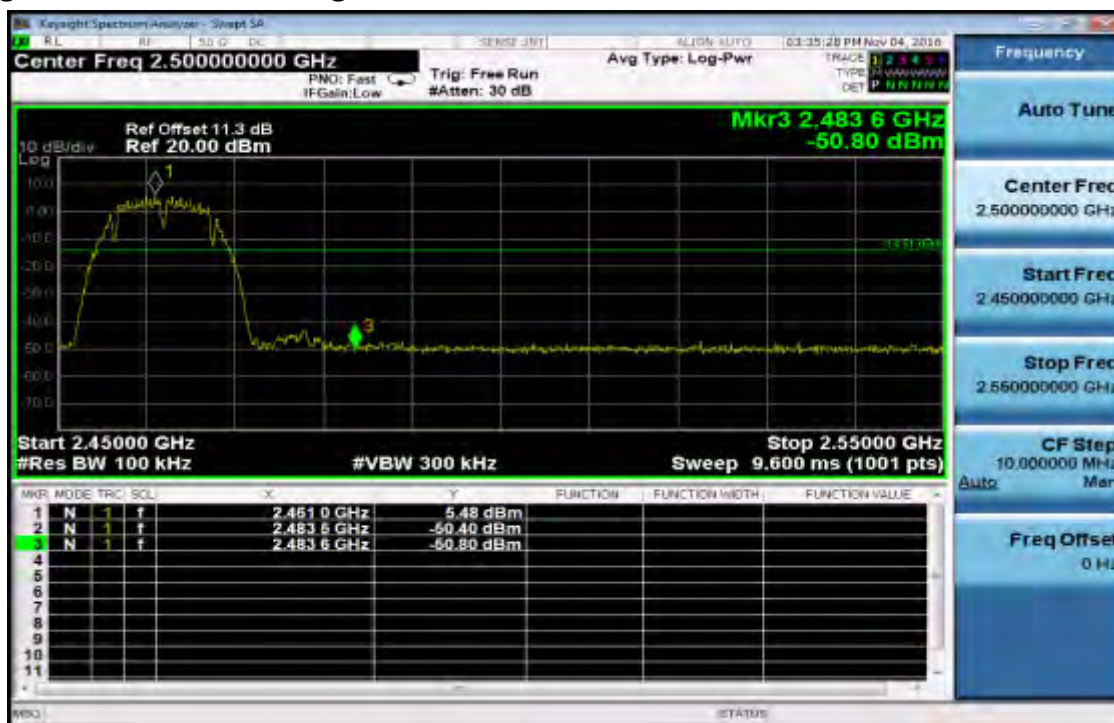
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Band Edges Test Data CH-12



Band Edges Test Data CH-13



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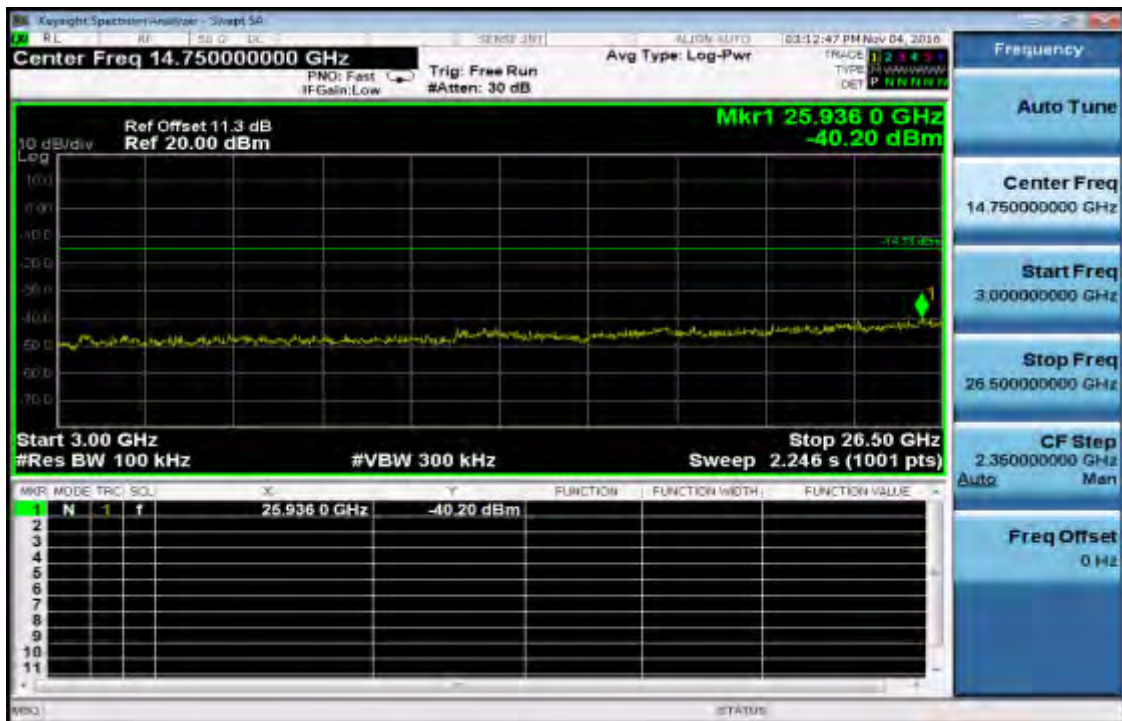
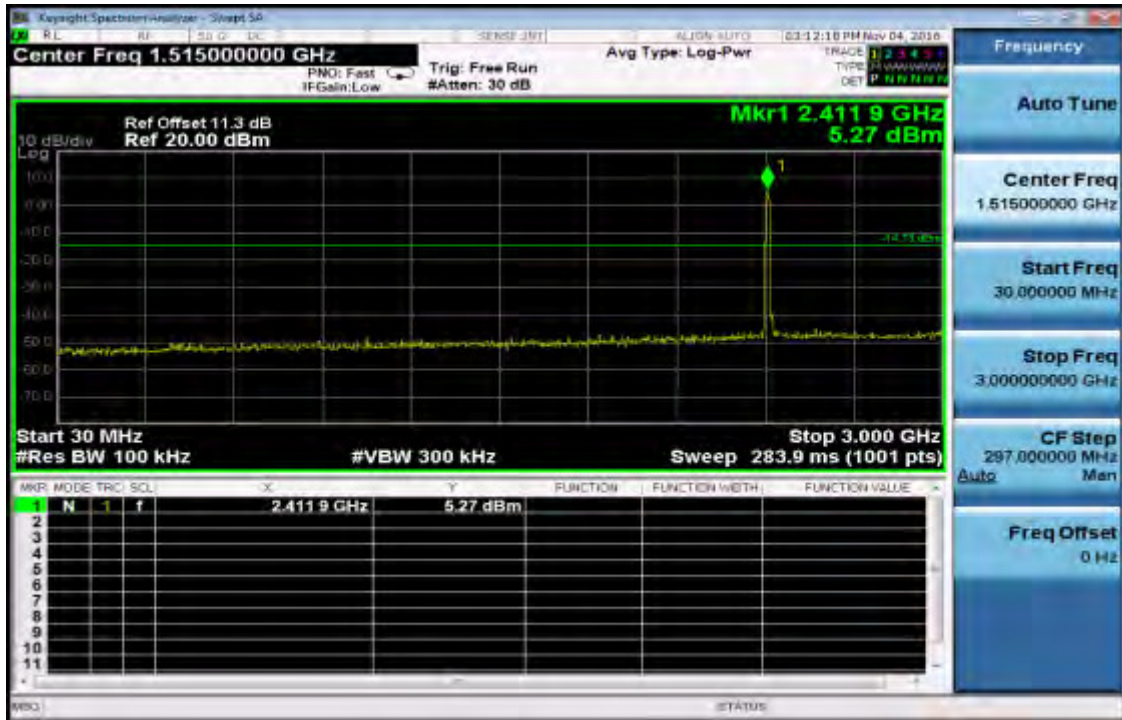
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802.11b

Spurious Emission Test Data CH-Low



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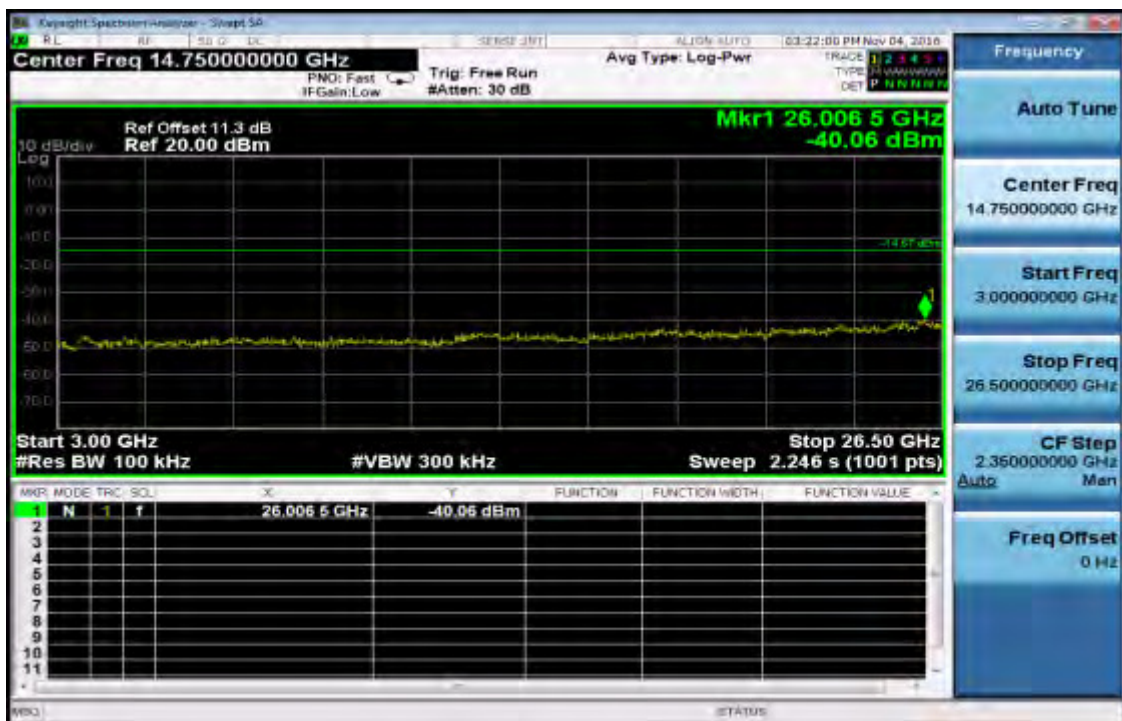
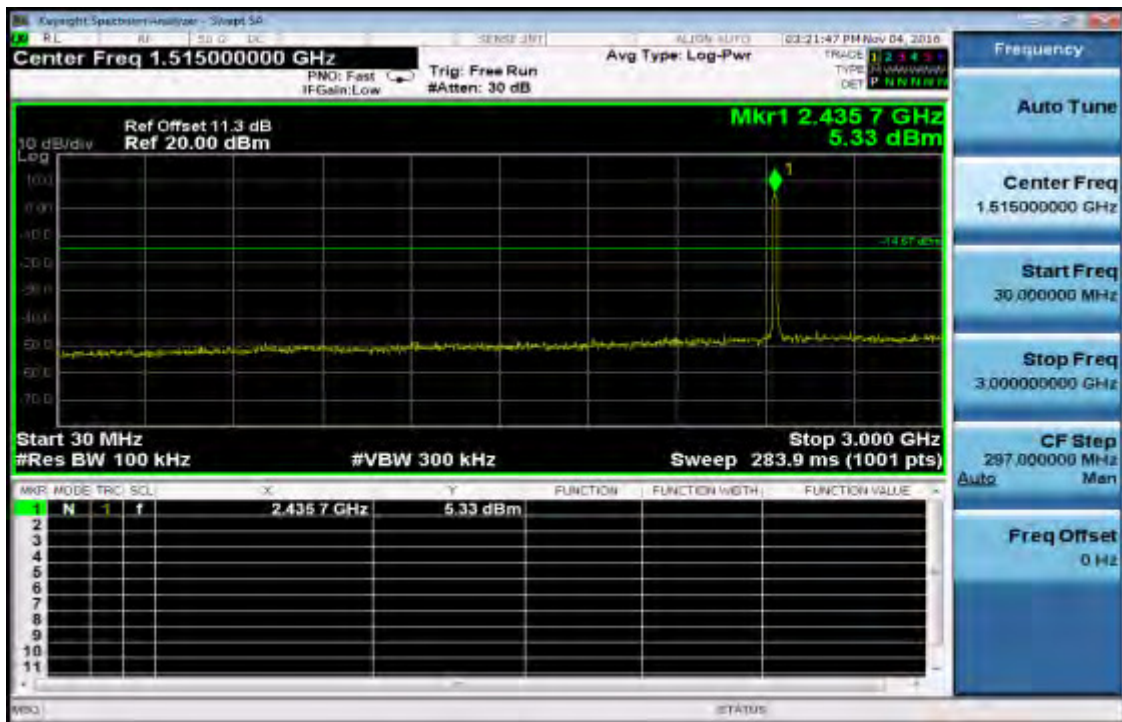
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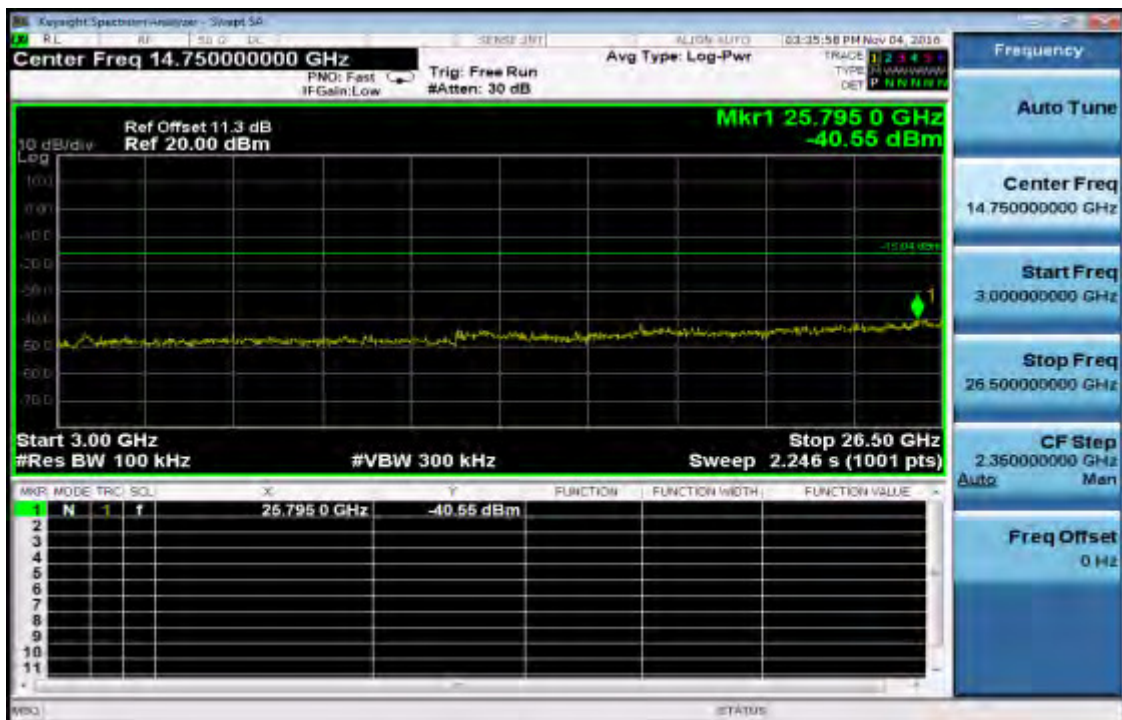
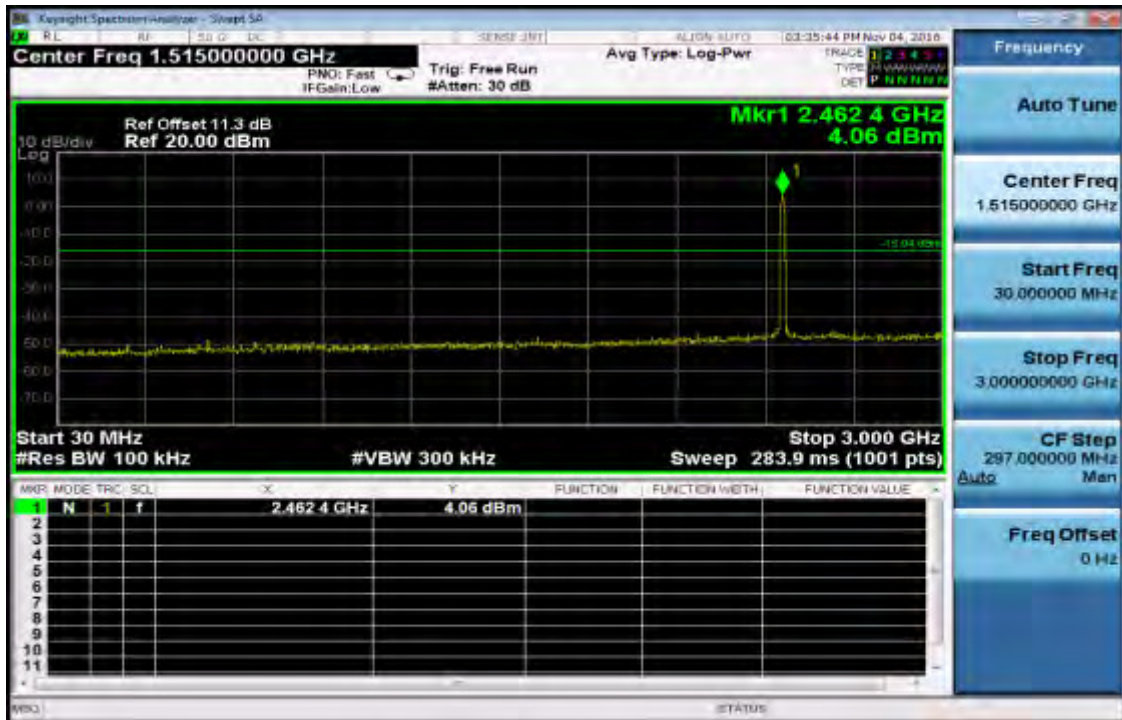
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Spurious Emission Test Data CH-High



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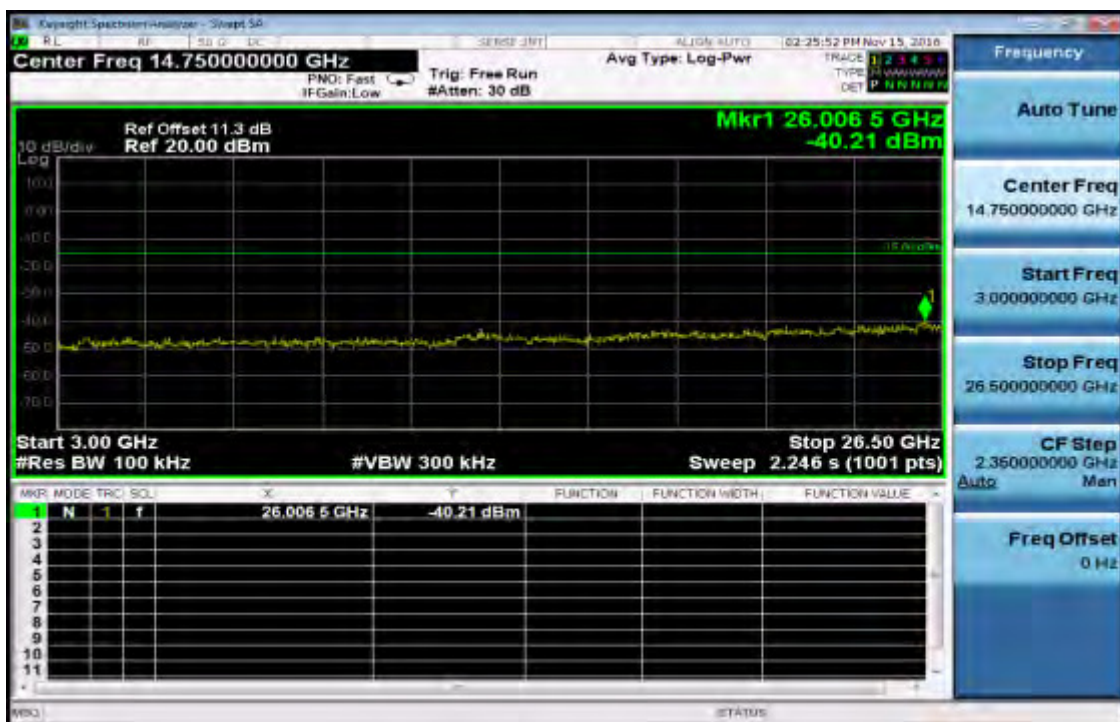
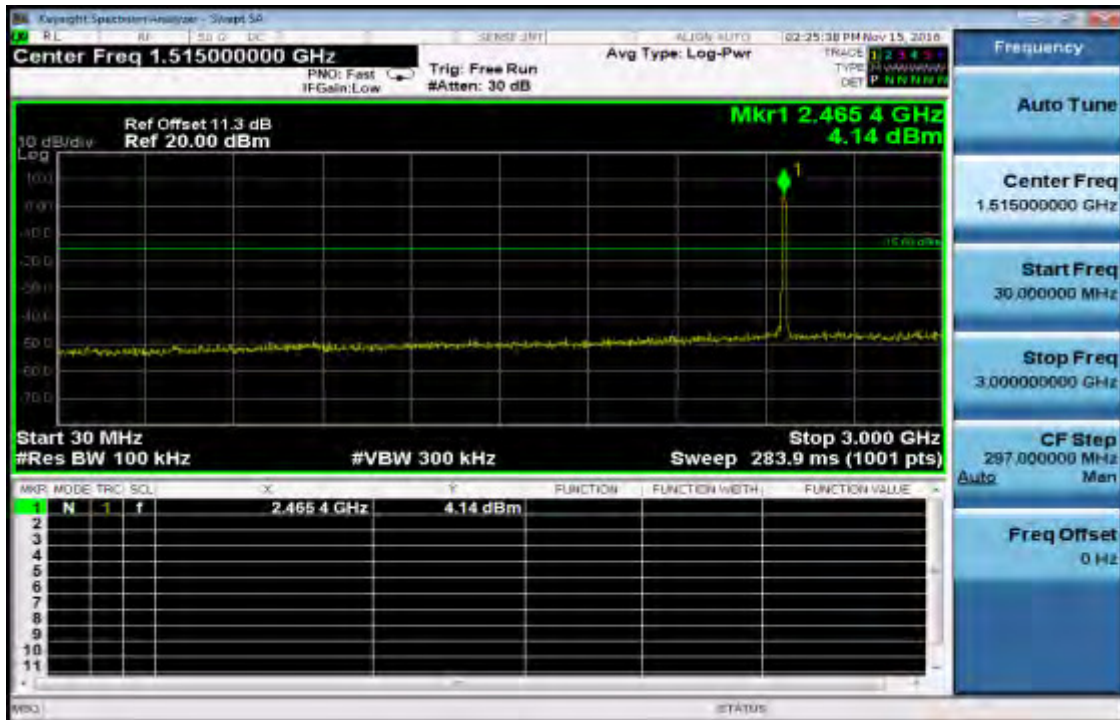
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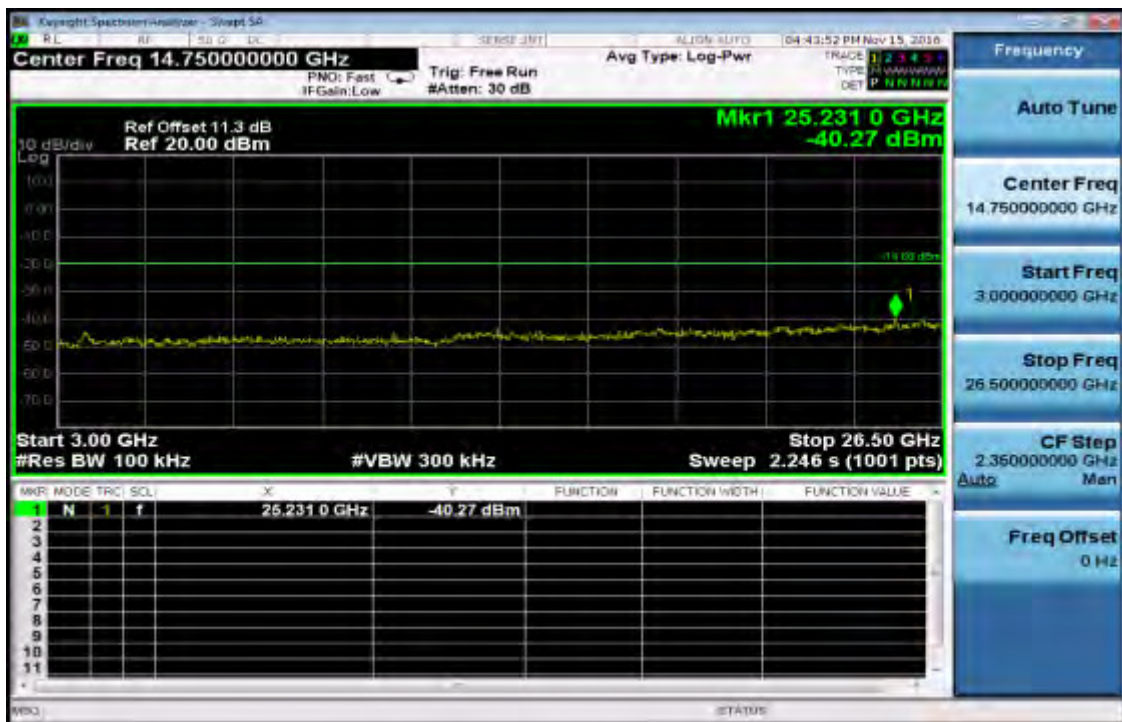
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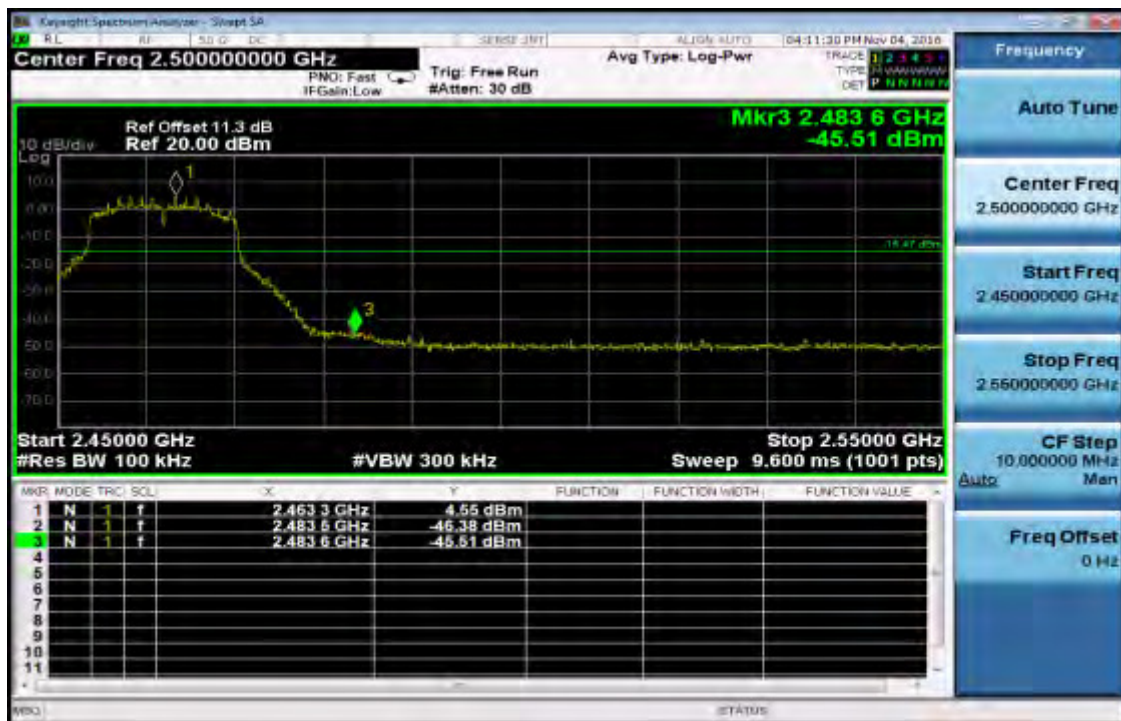
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802.11g Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Band Edges Test Data CH-13



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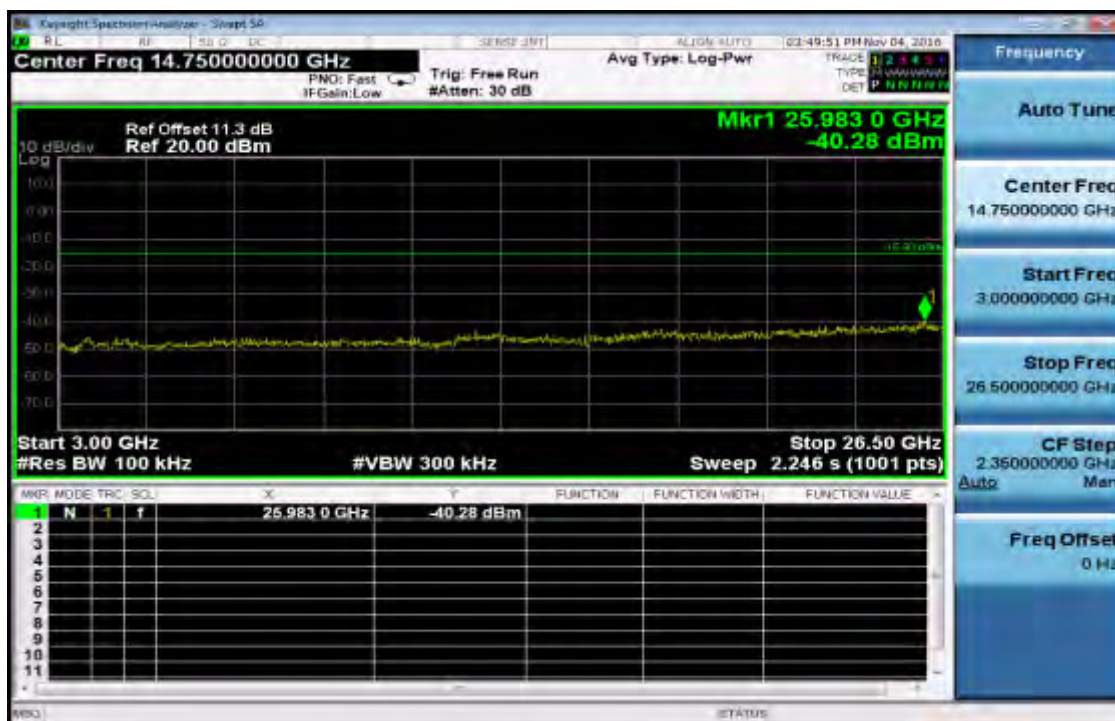
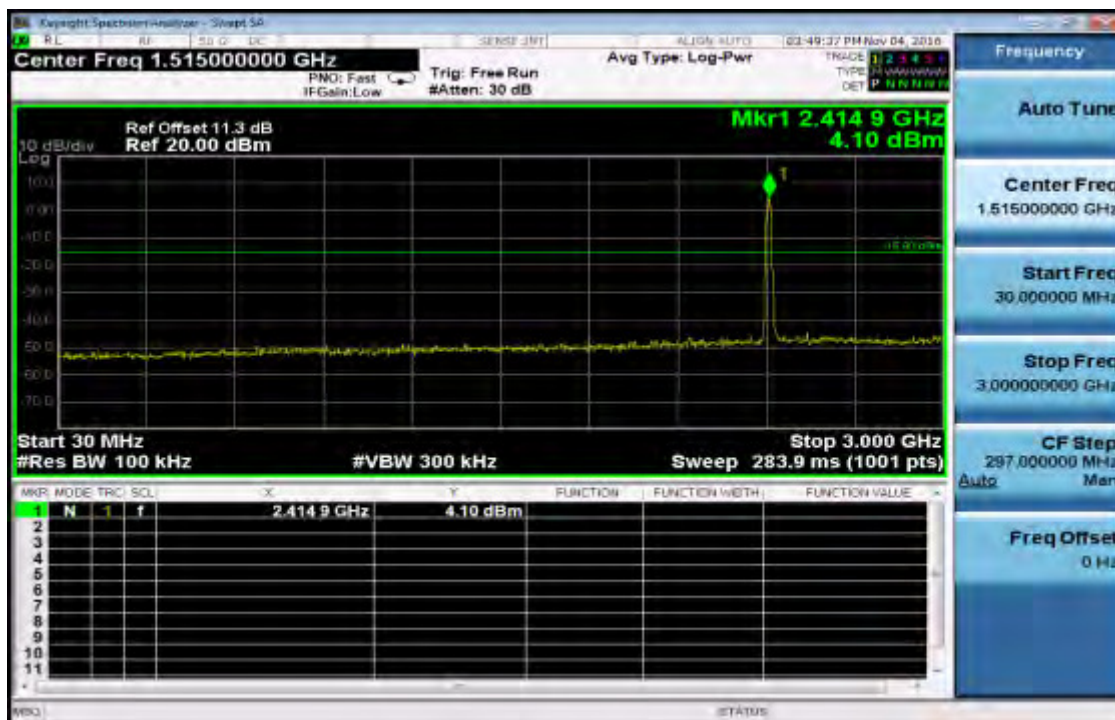
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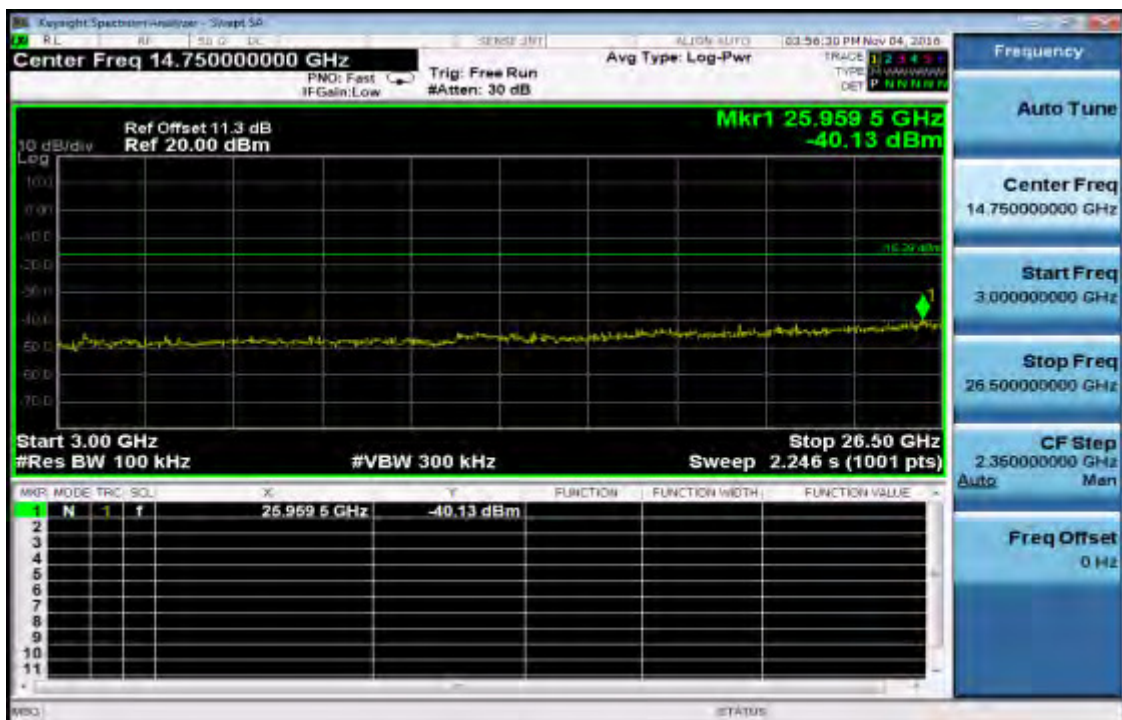
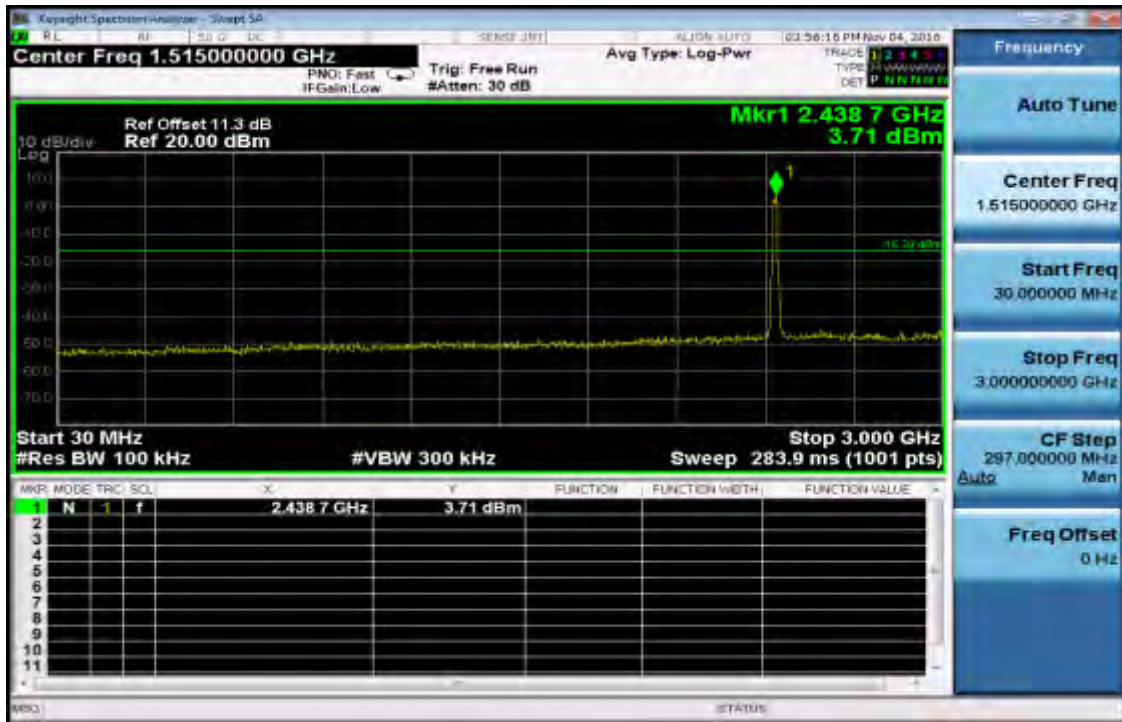
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Spurious Emission Test Data CH-Mid



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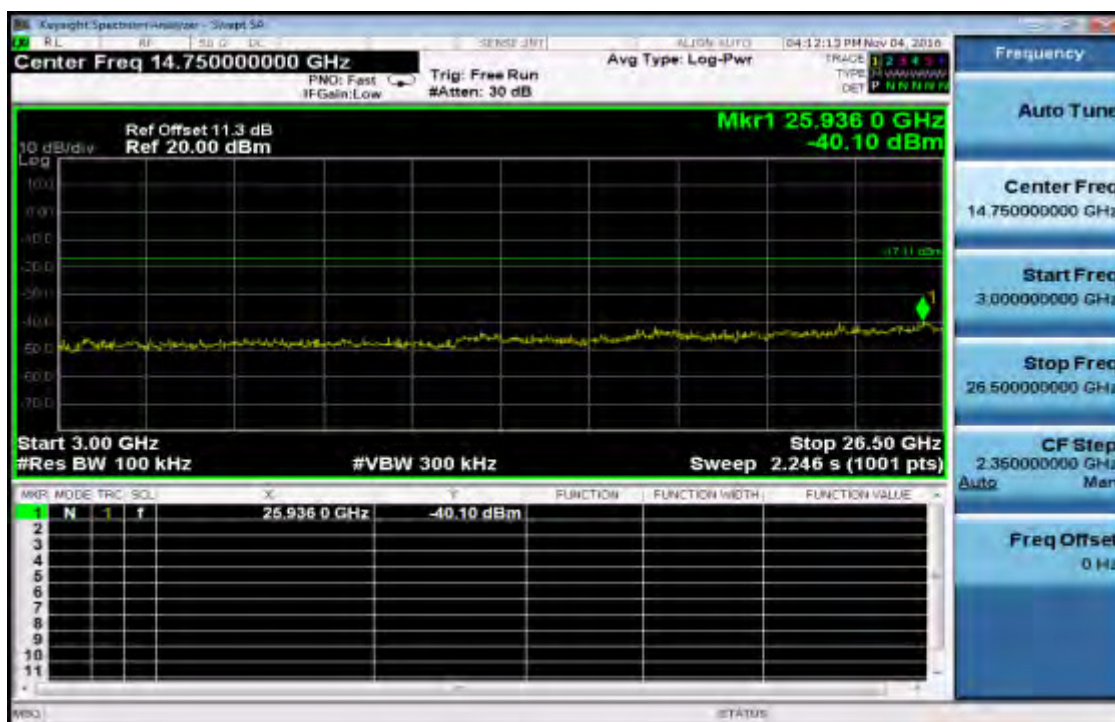
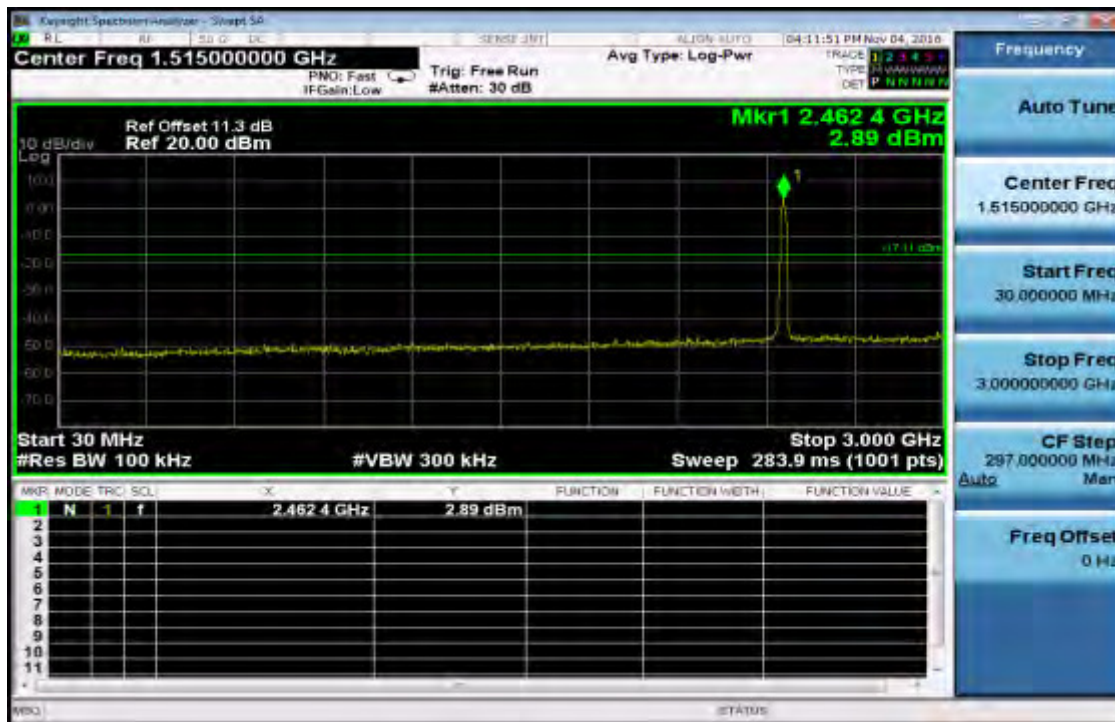
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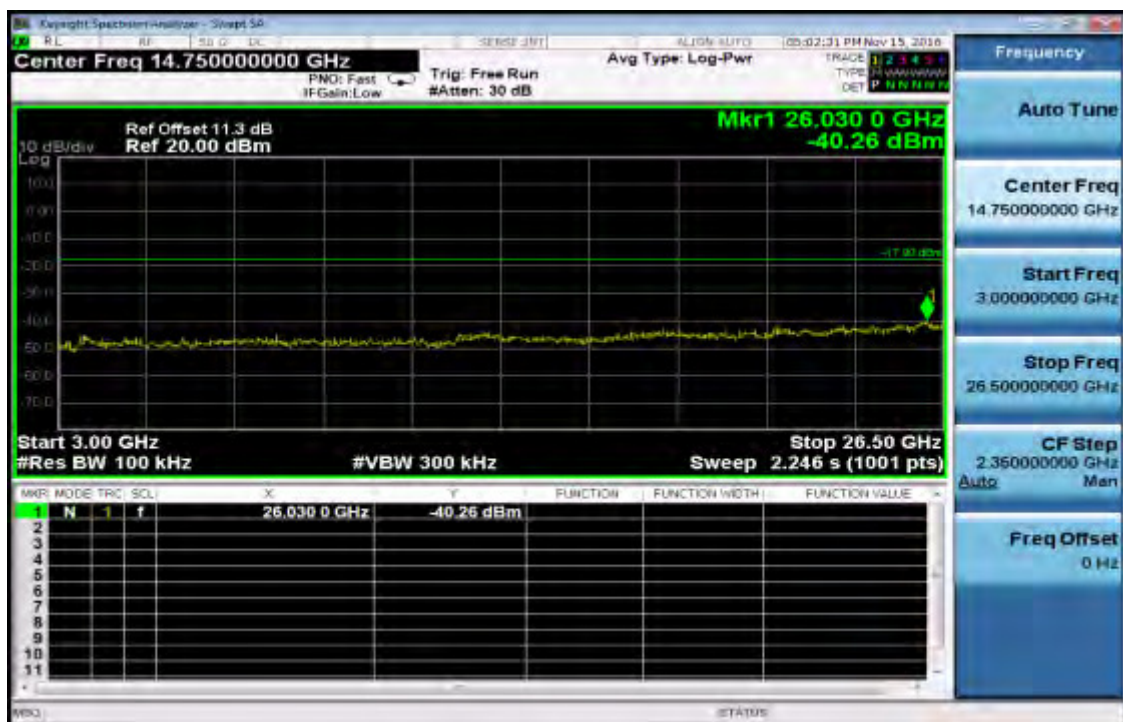
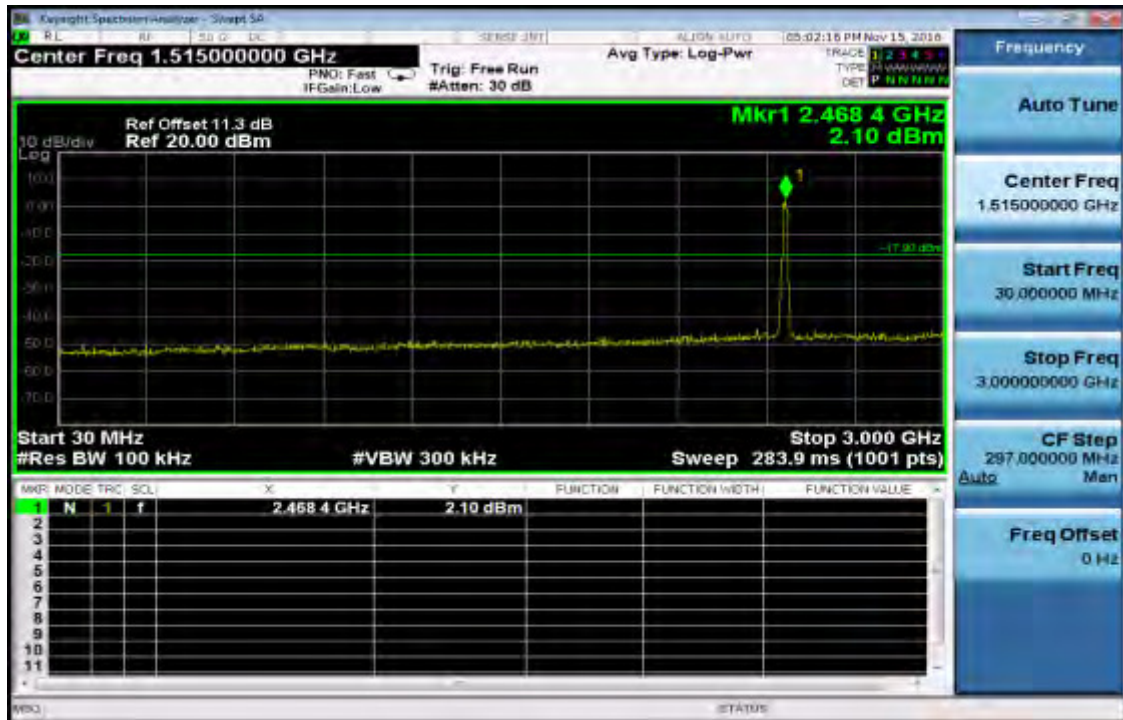
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Spurious Emission Test Data CH-12



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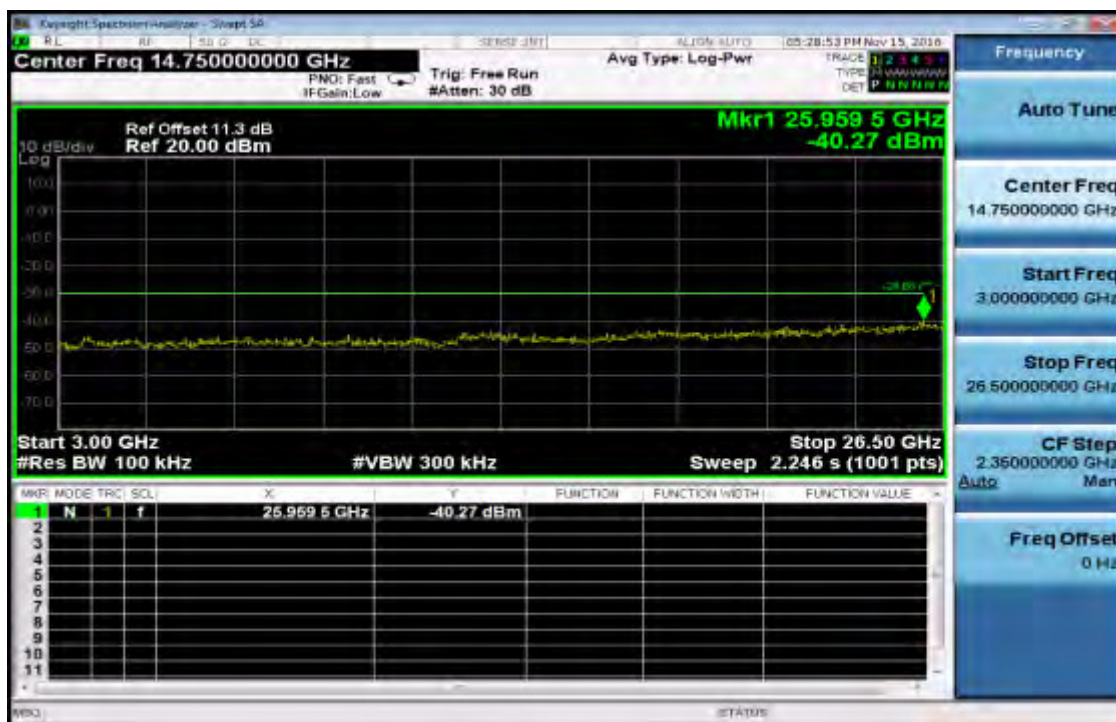
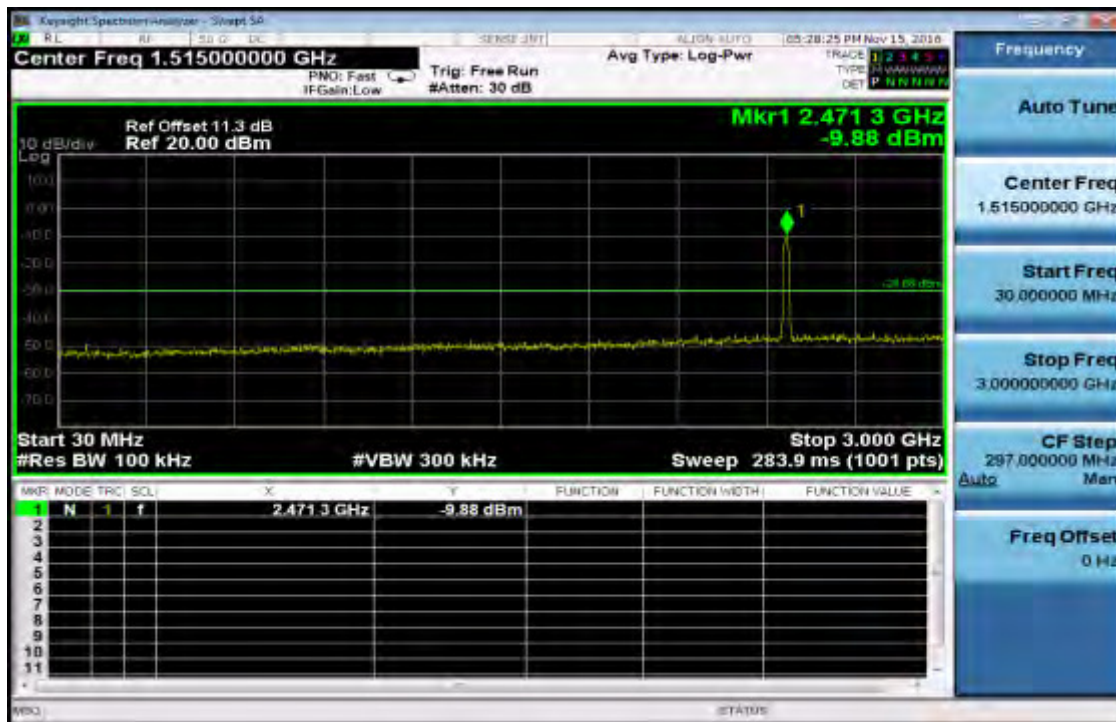
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802.11n_HT20 Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Band Edges Test Data CH-12



Band Edges Test Data CH-13



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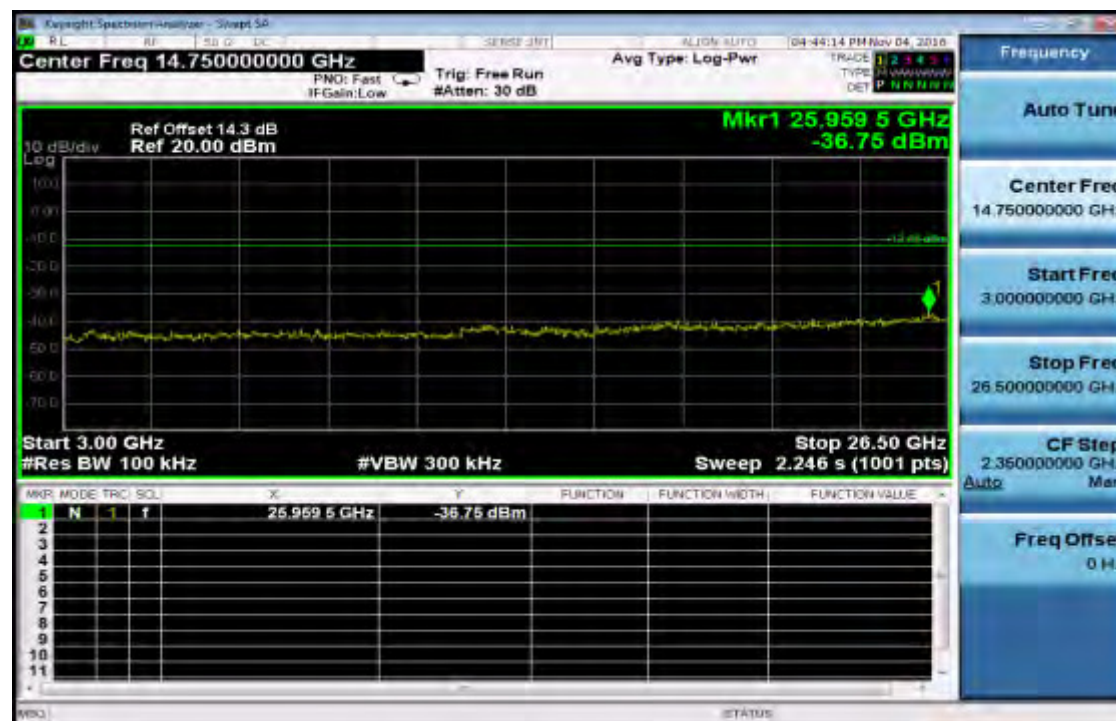
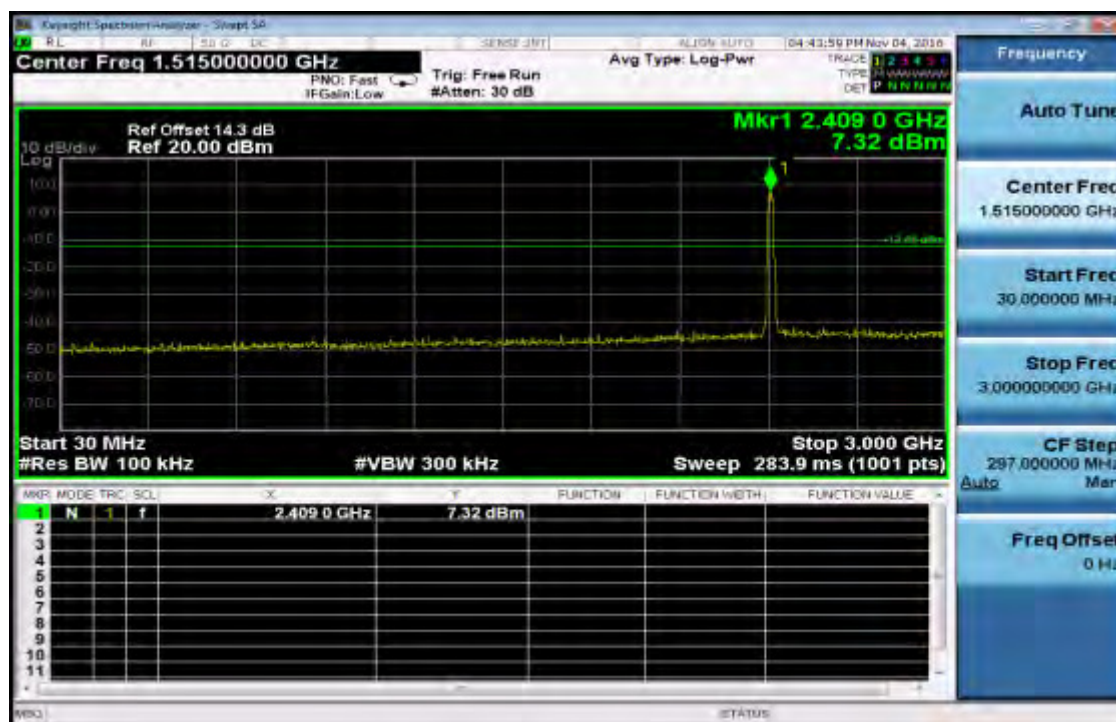
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802.11n_HT20

Spurious Emission Test Data CH-Low



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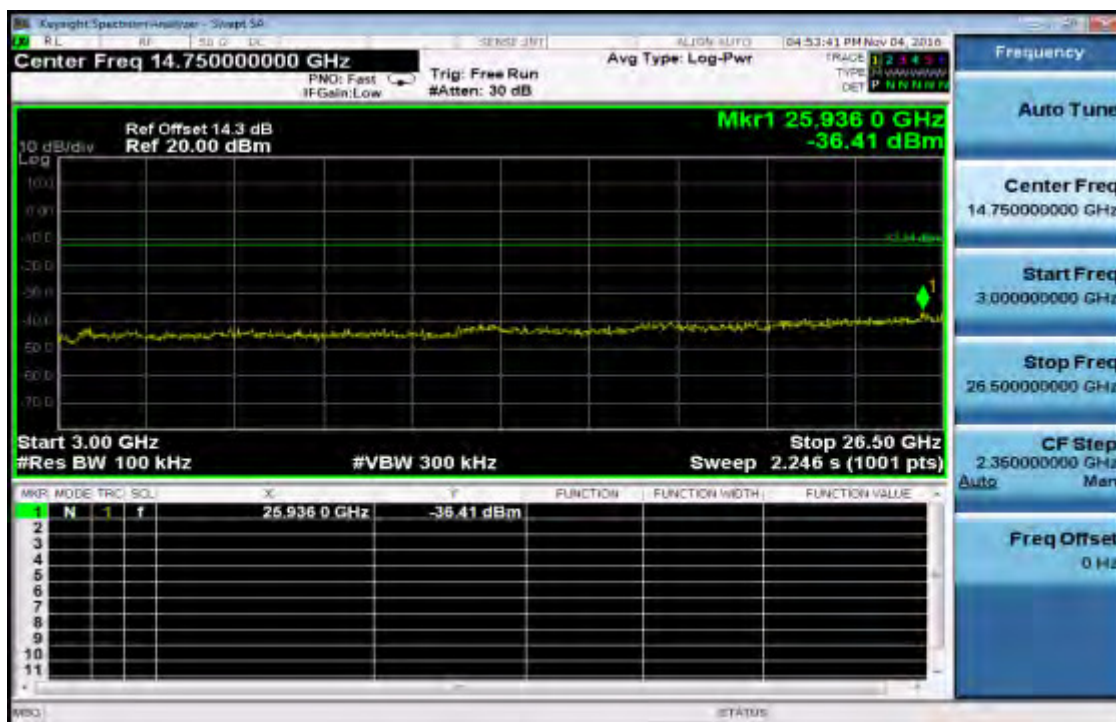
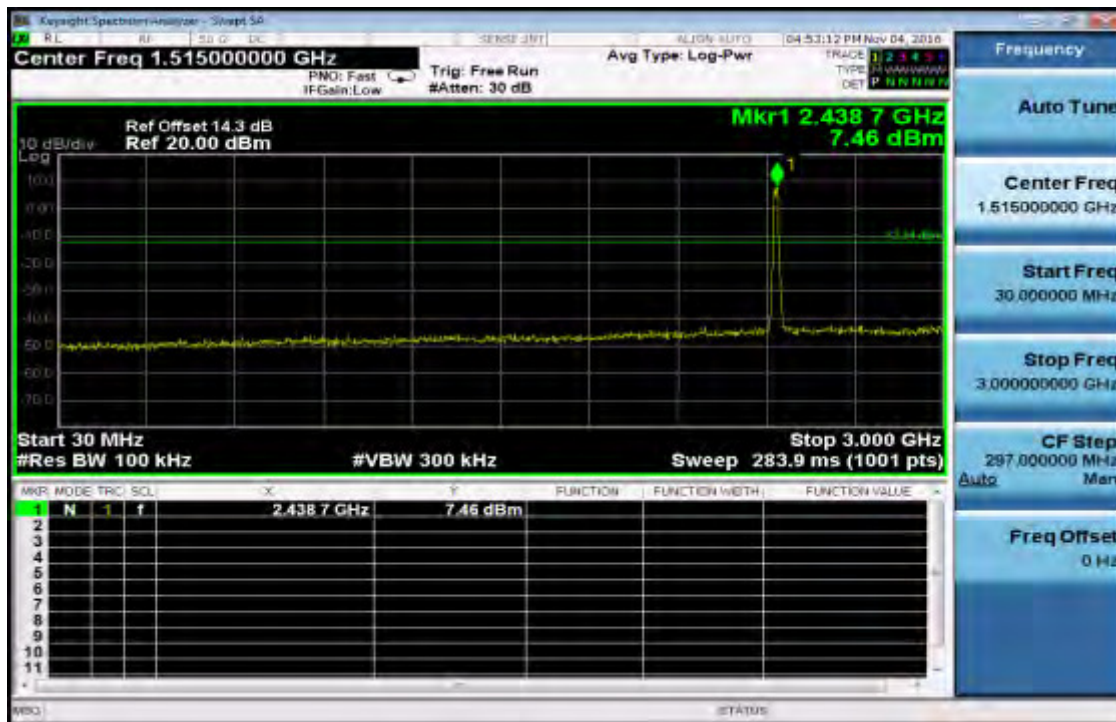
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Spurious Emission Test Data CH-Mid



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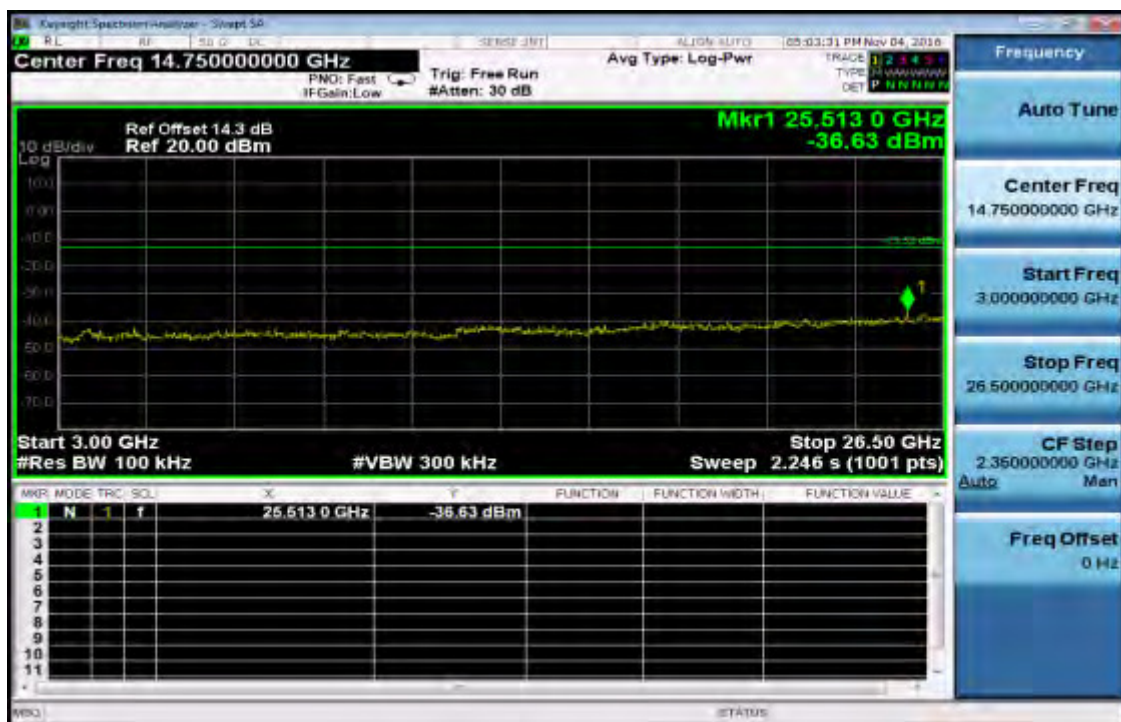
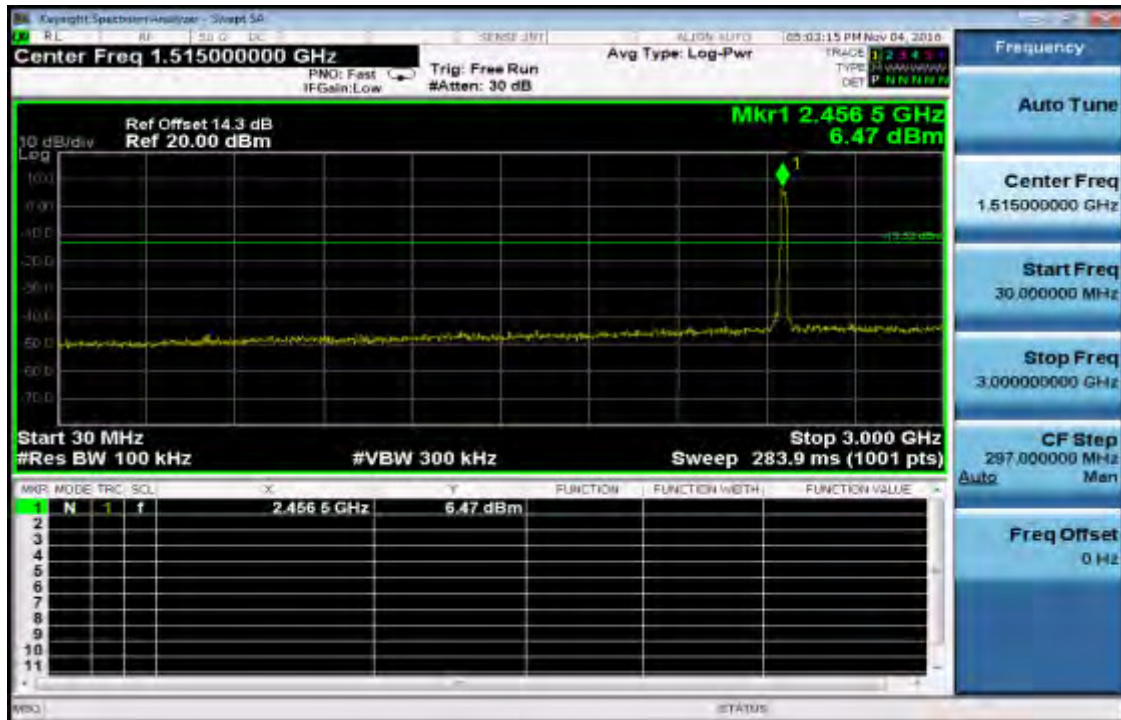
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Spurious Emission Test Data CH-High



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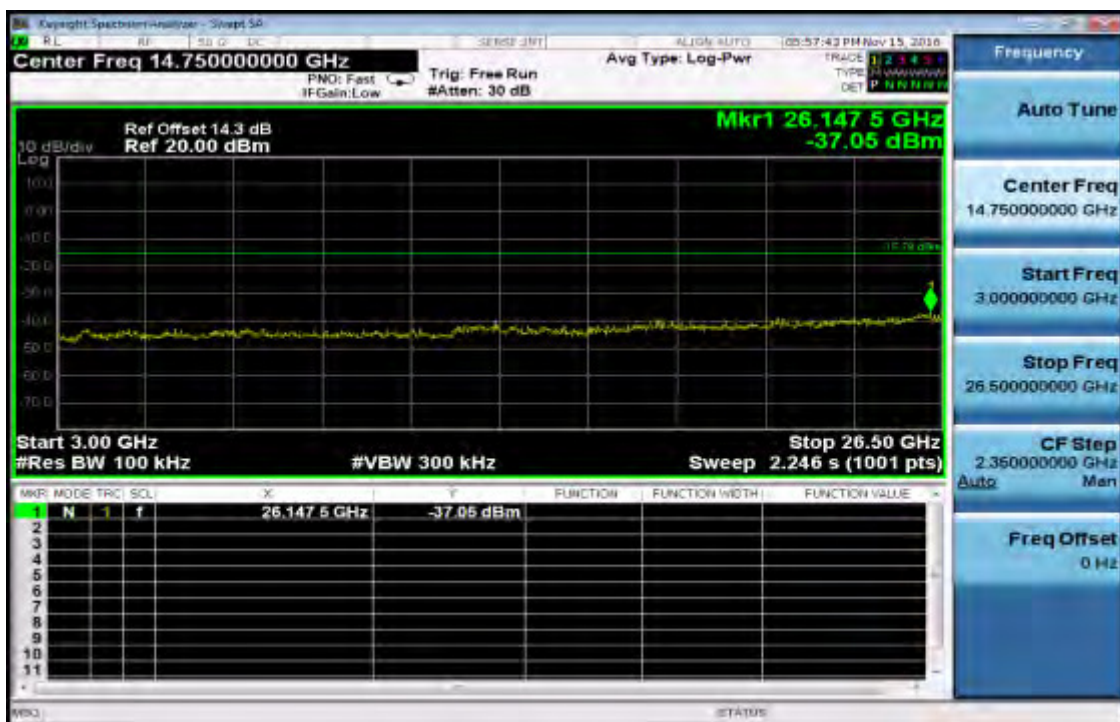
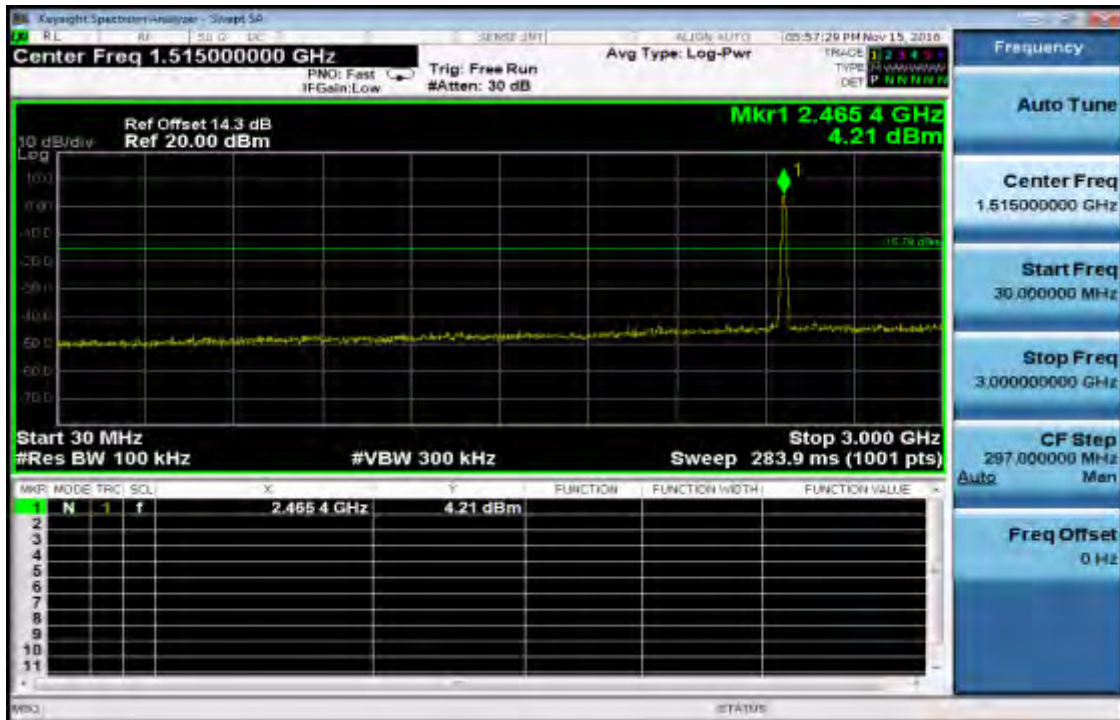
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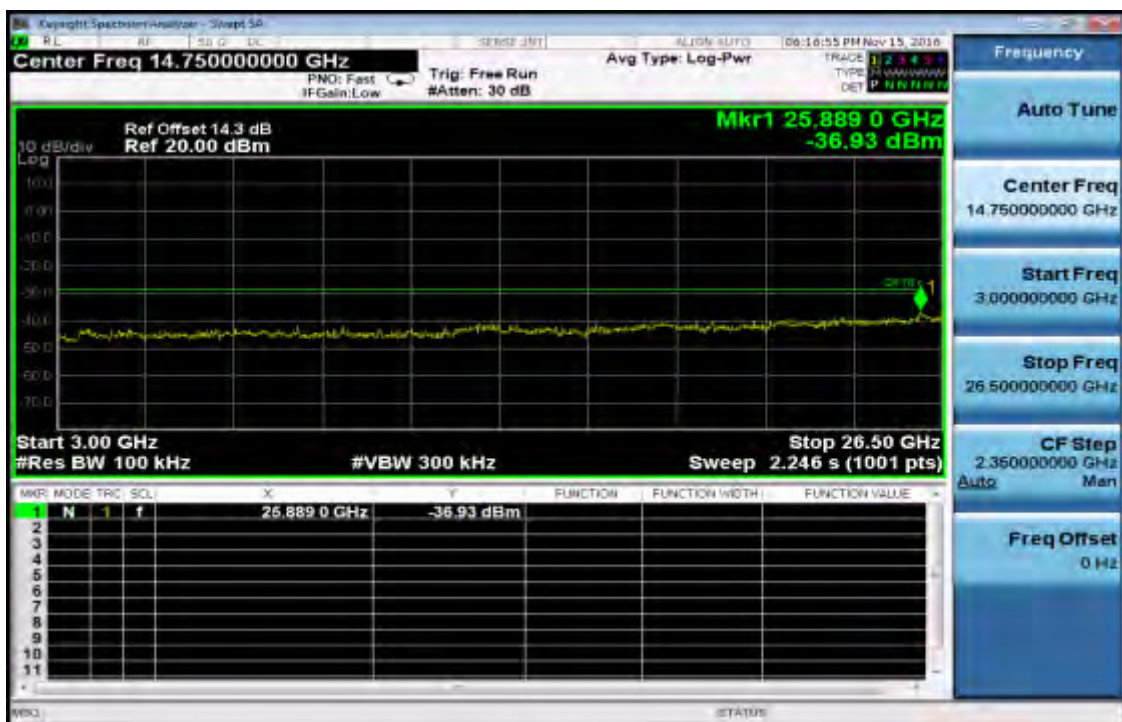
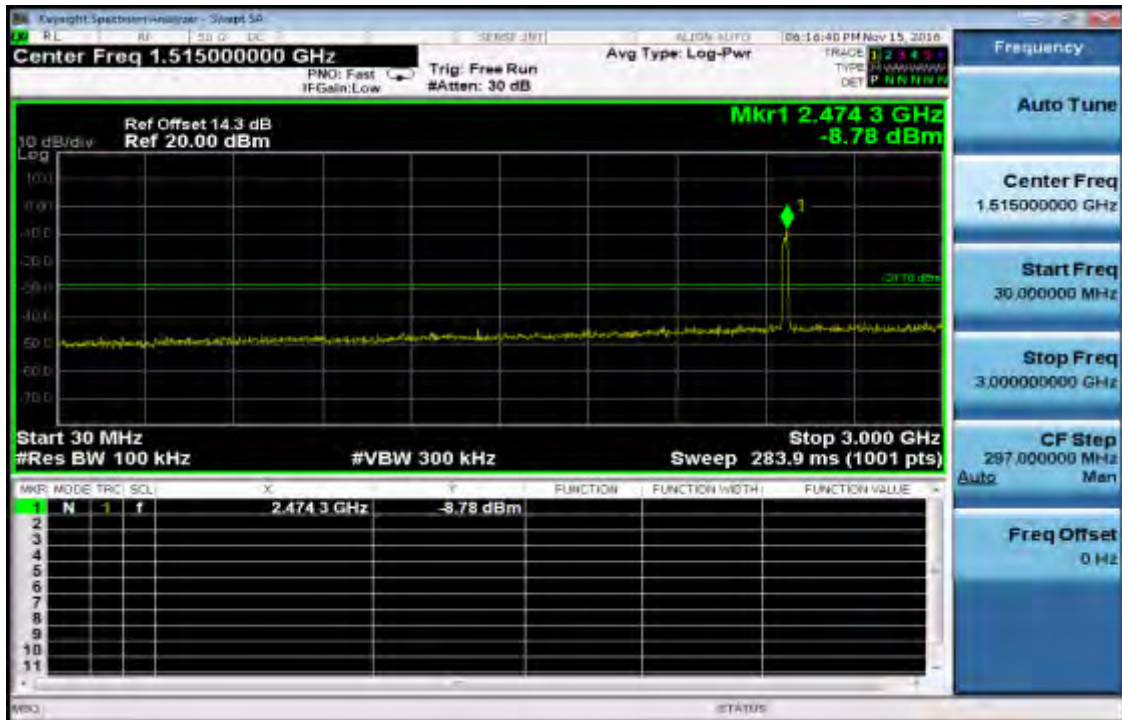
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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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Band Edges Test Data CH-10



Band Edges Test Data CH-11



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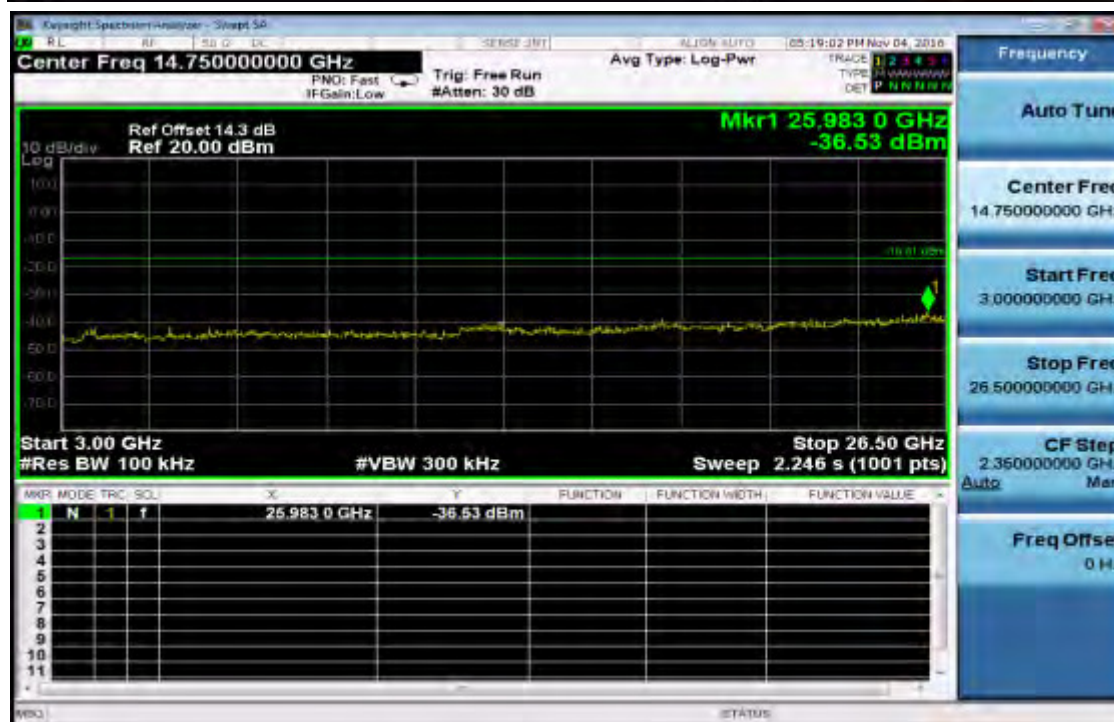
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802.11n_HT40

Spurious Emission Test Data CH-Low



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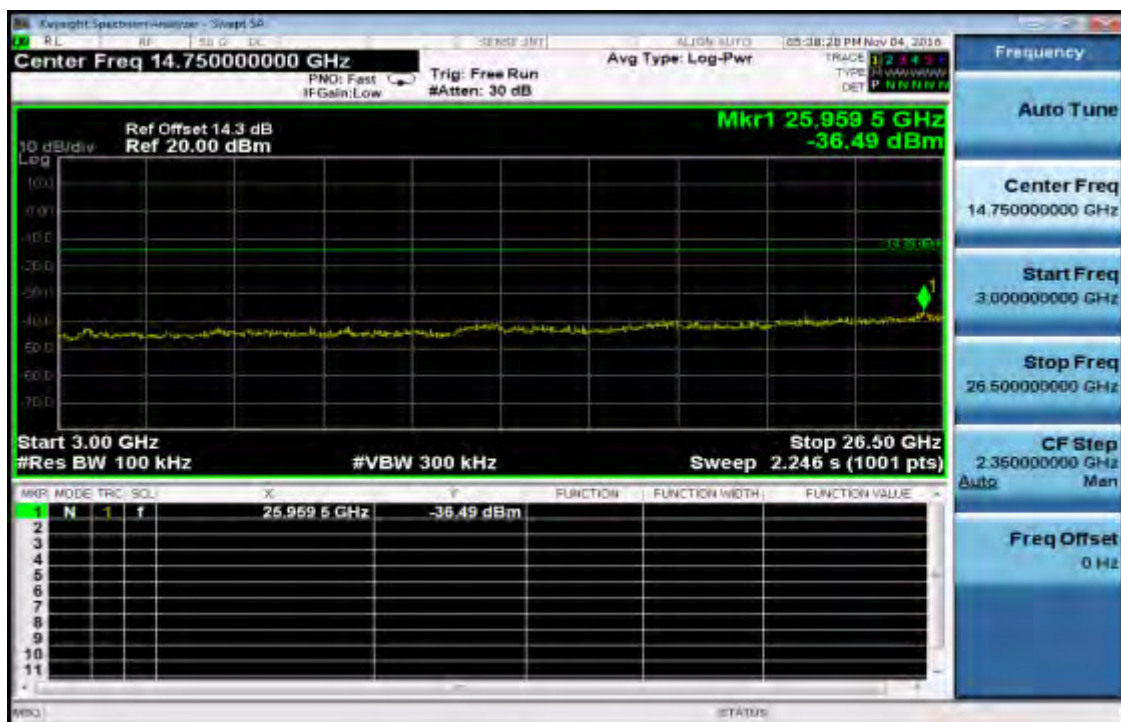
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Spurious Emission Test Data CH-Mid



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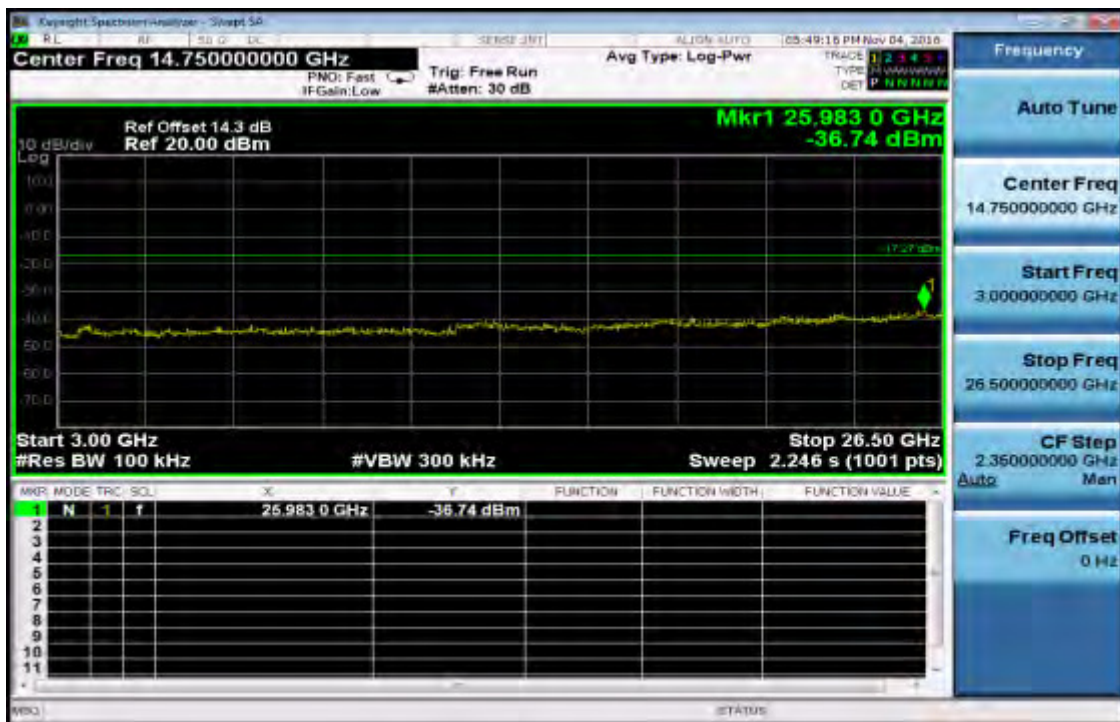
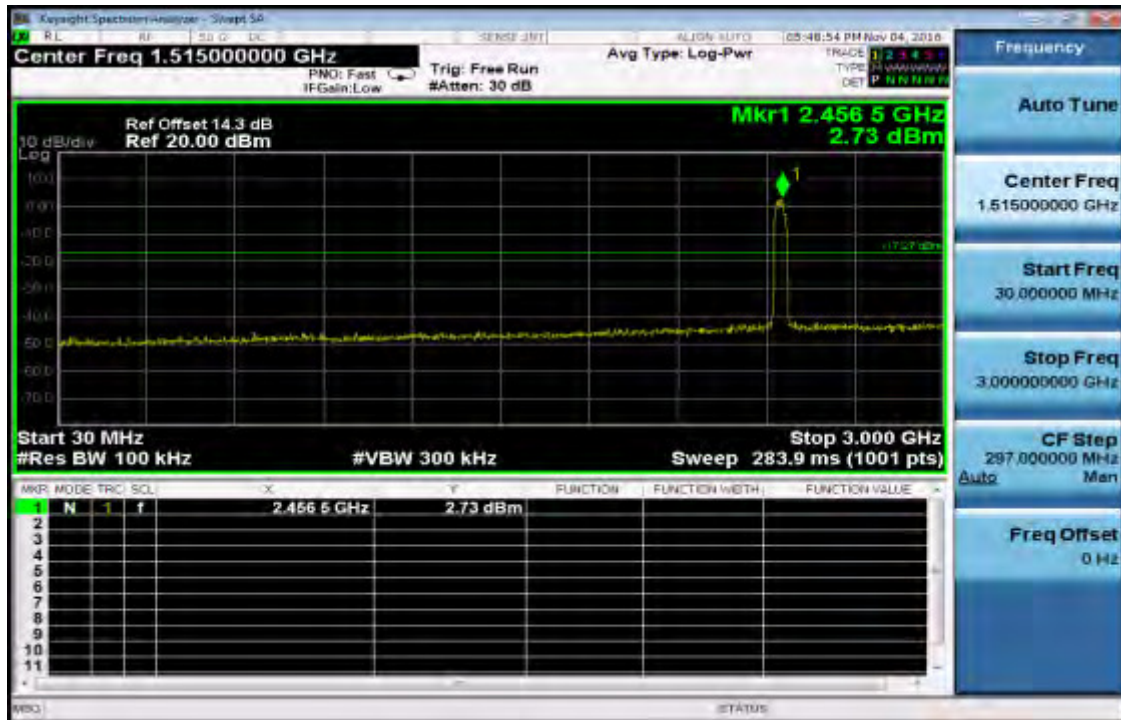
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Spurious Emission Test Data CH-High



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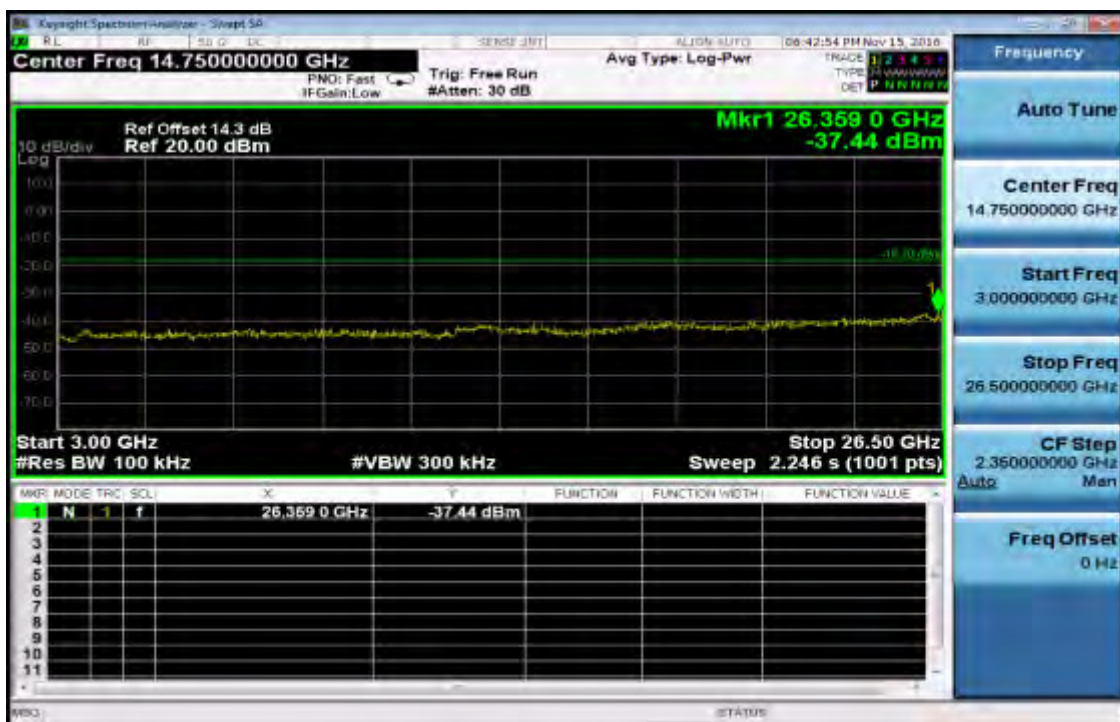
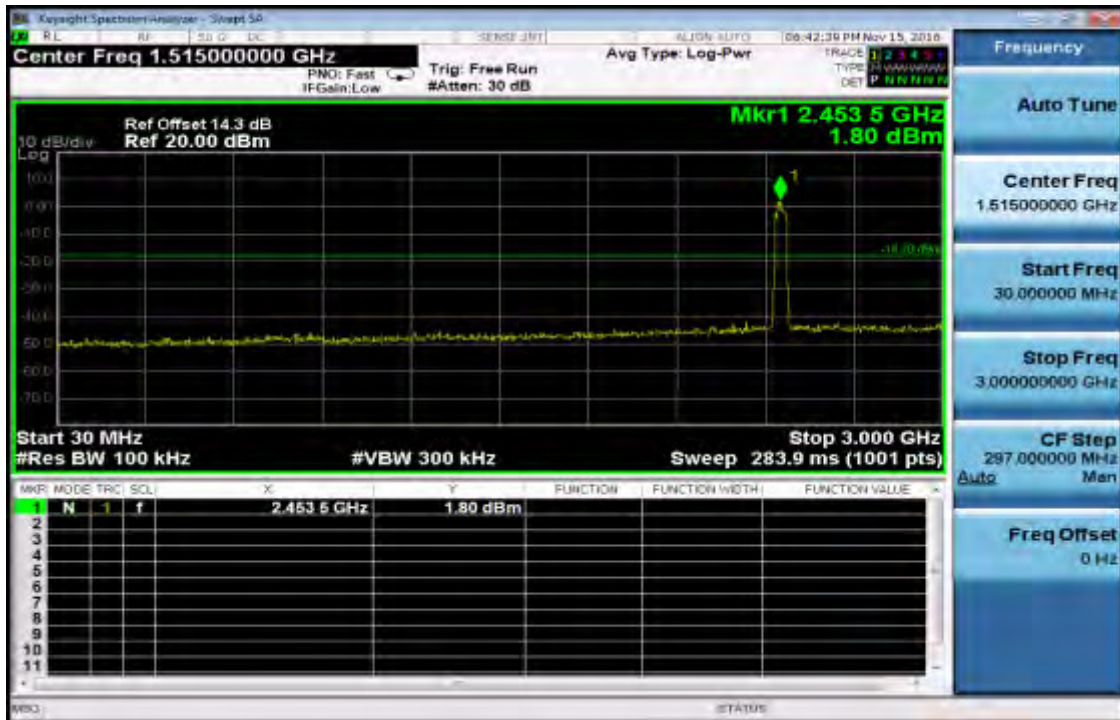
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Spurious Emission Test Data CH-10



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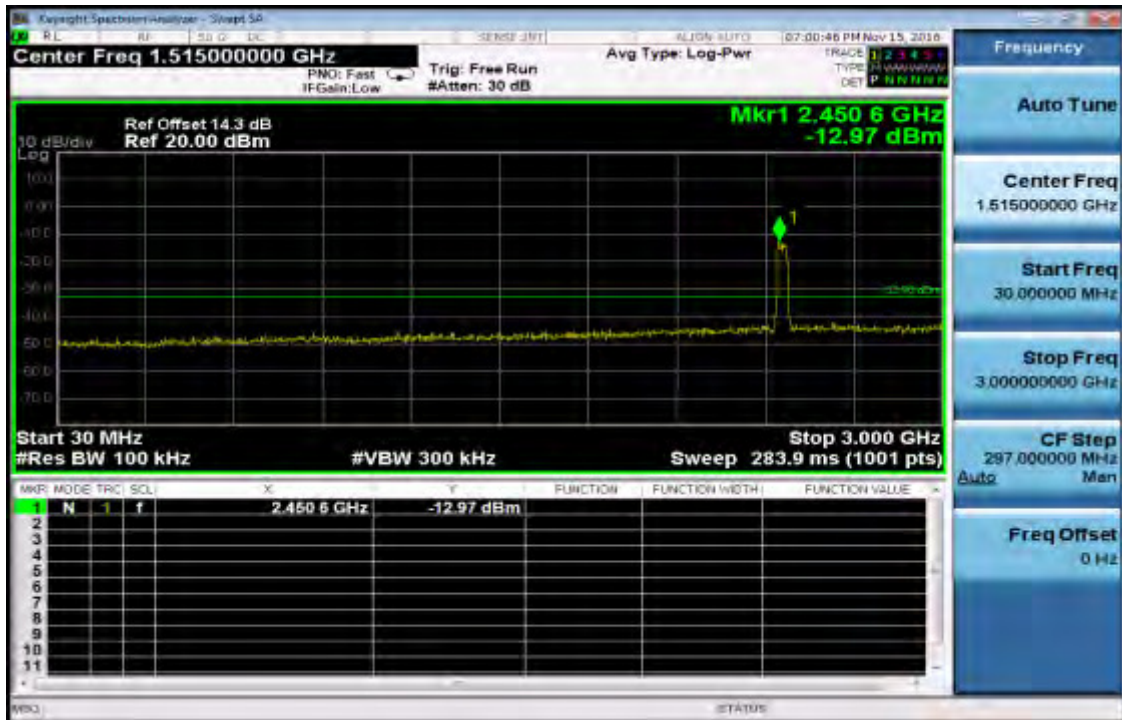
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Spurious Emission Test Data CH-11



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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 & RSS-Gen §8.8, 8.9 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13(a), 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 (dBμV/m) = 20 log Emission level (dBμV/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	04/12/2016	04/11/2017
Loop Antenna	ETS-Lindgren	6502	00143303	12/23/2015	12/22/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	11/03/2016	11/02/2017
Horn Antenna	ETS-Lindgren	3117	00143272	12/16/2015	12/15/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/18/2016	07/17/2017
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-26	100780	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U	966Rx 9K-30M	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	RG 214/U SUCOFLEX 104	966Rx 30M-3G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Rx 1G-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	mini 141-12 SUCOFLEX 104	966Rx 18G-40G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 104	966Tx 30M-18G	12/12/2015	12/11/2016
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	966Tx 18G-40G	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF27	12/12/2015	12/11/2016
Site NSA	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2016	03/03/2017
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2016	05/03/2017
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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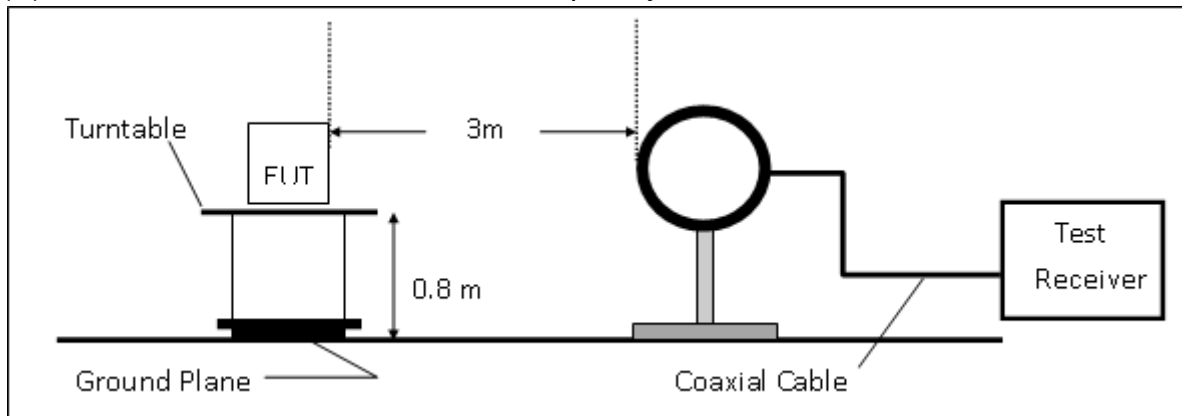
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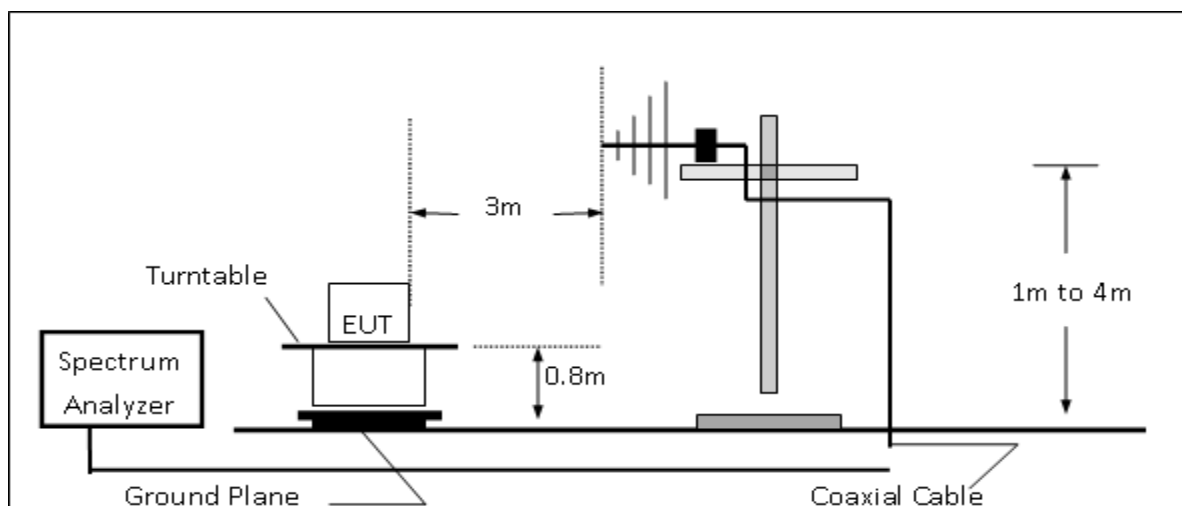
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11.3 Test SET-UP

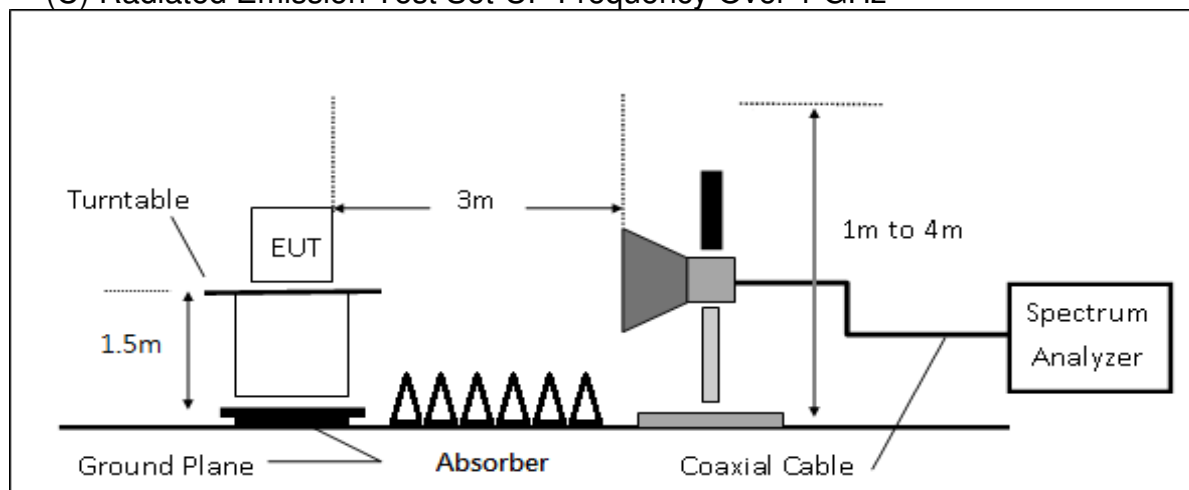
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 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 ≥ 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:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

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

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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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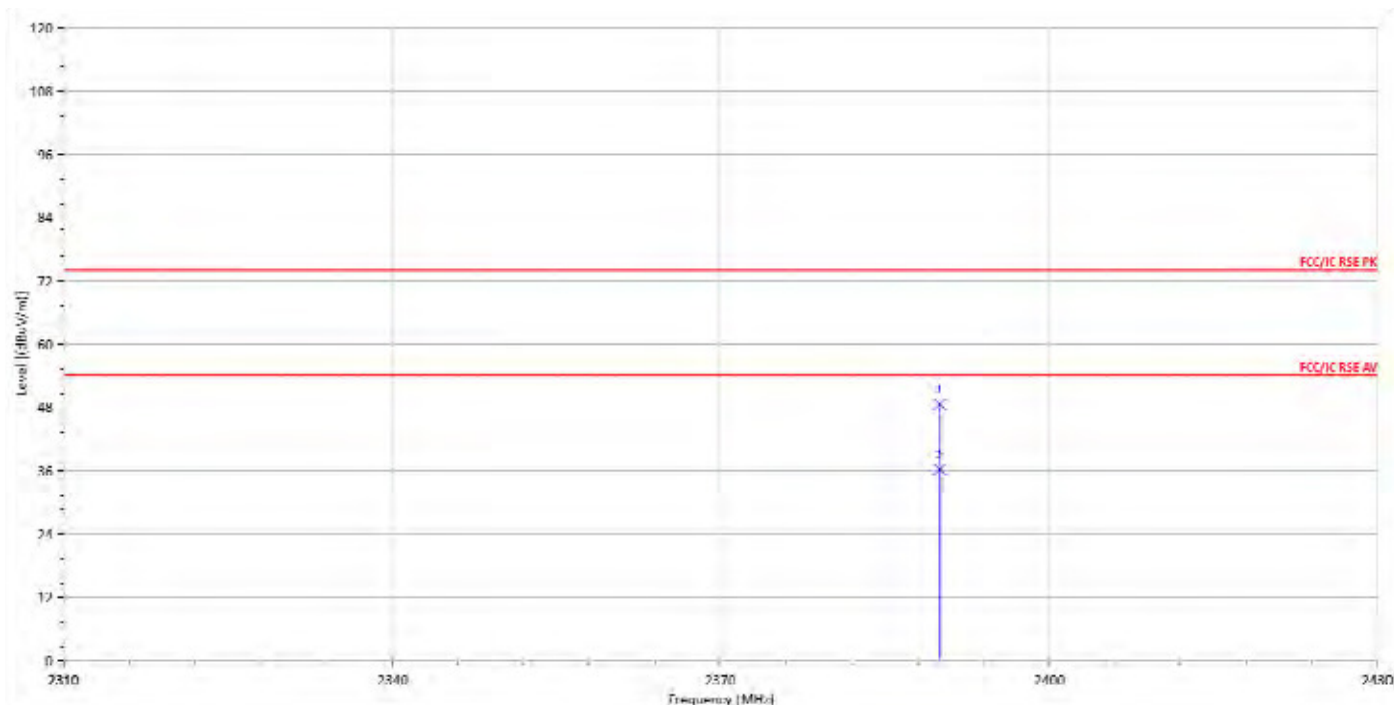
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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2016/11/3
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	47.54	0.92	48.46	74	-25.54
2390.00	E	Average	35.23	0.92	36.15	54	-17.85

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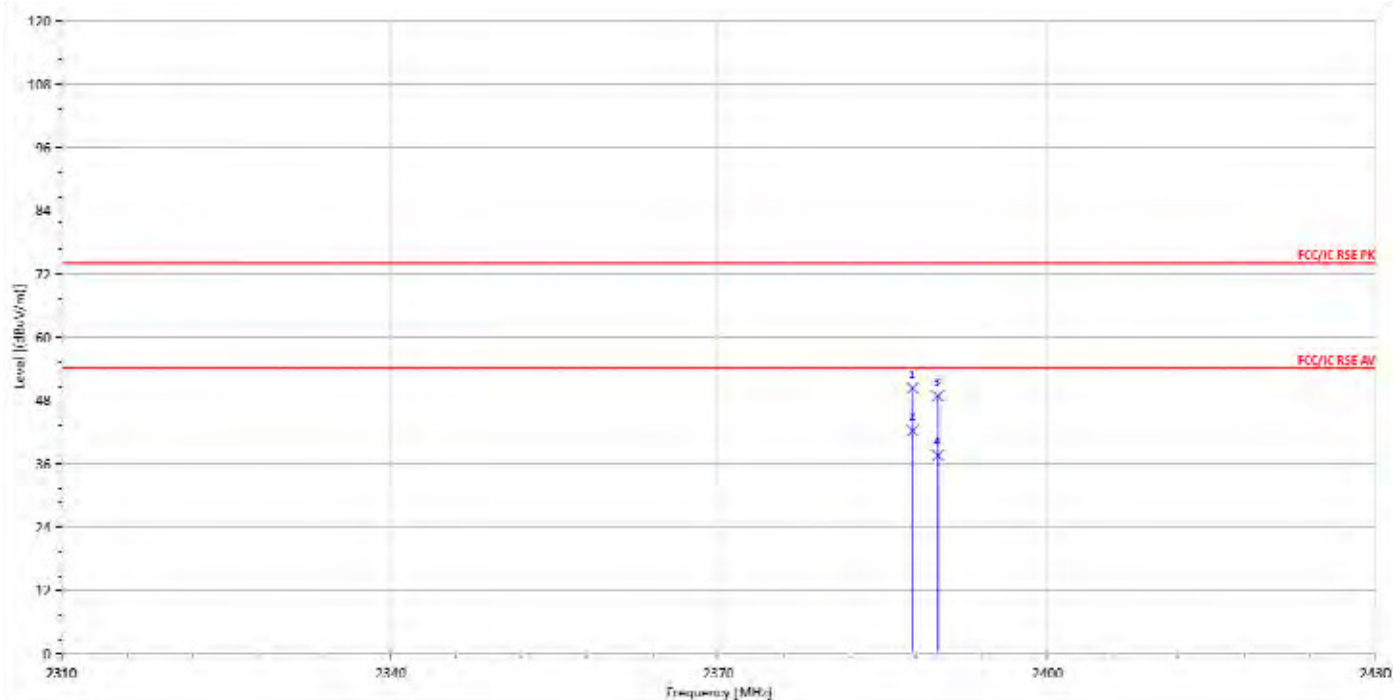
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2387.76	S	Peak	49.34	0.89	50.23	74	-23.77
2387.76	S	Average	41.36	0.89	42.25	54	-11.75
2390.00	E	Peak	47.85	0.92	48.77	74	-25.23
2390.00	E	Average	36.59	0.92	37.51	54	-16.49

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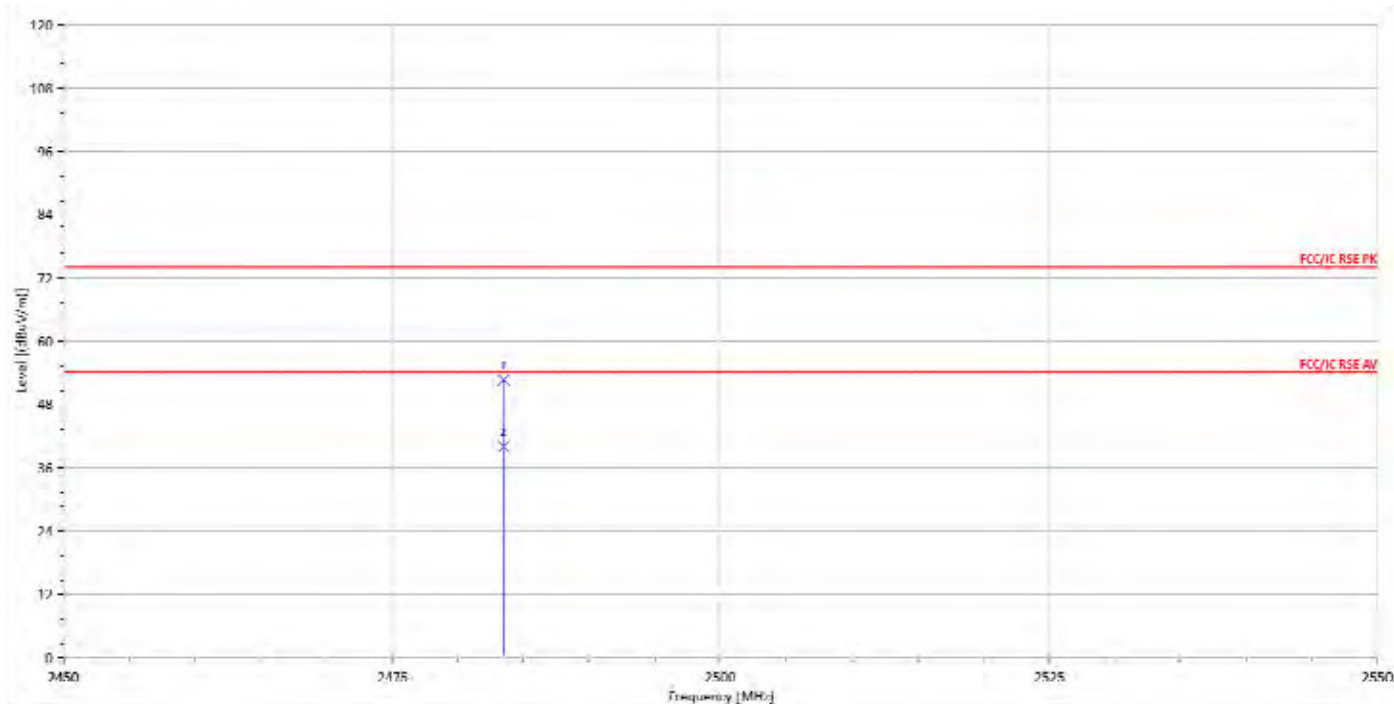
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	51.41	1.16	52.57	74	-21.43
2483.50	E	Average	38.84	1.16	40.00	54	-14.00

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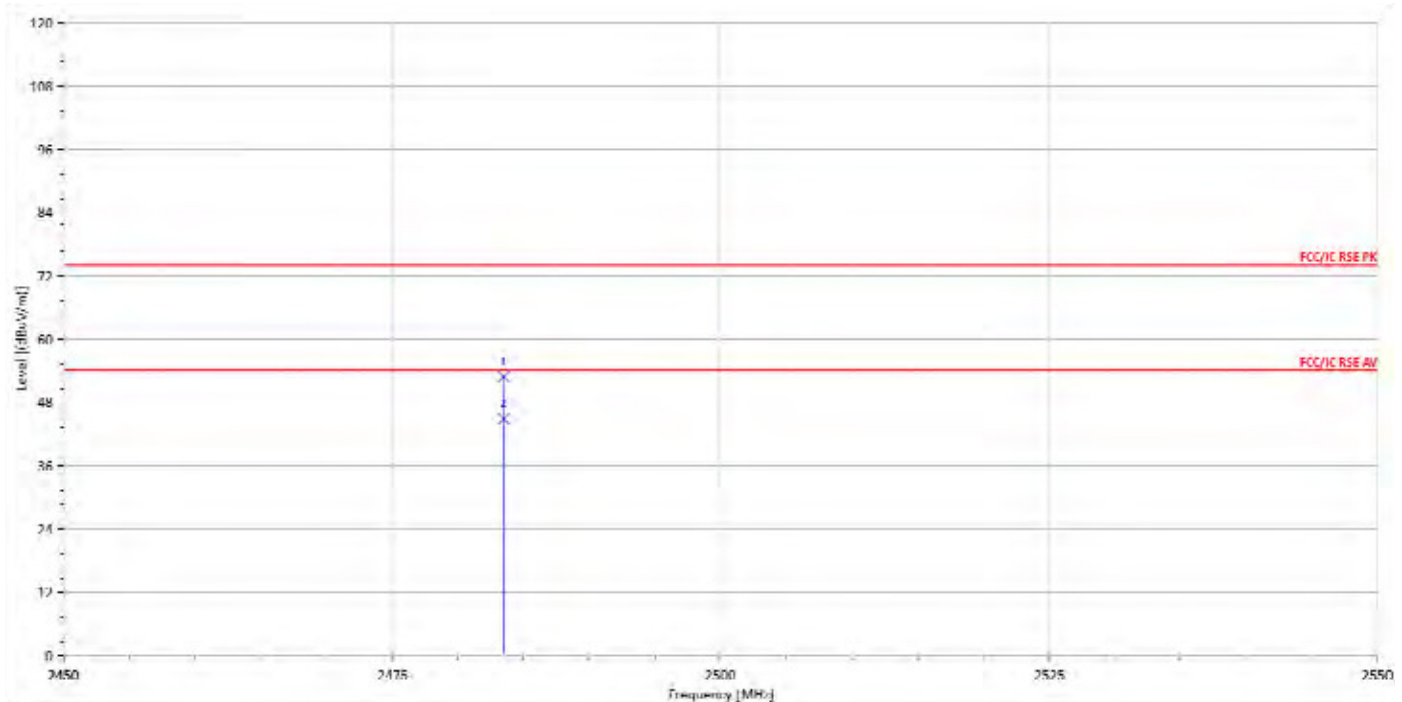
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	51.68	1.16	52.84	74	-21.16
2483.50	E	Average	43.79	1.16	44.95	54	-9.05

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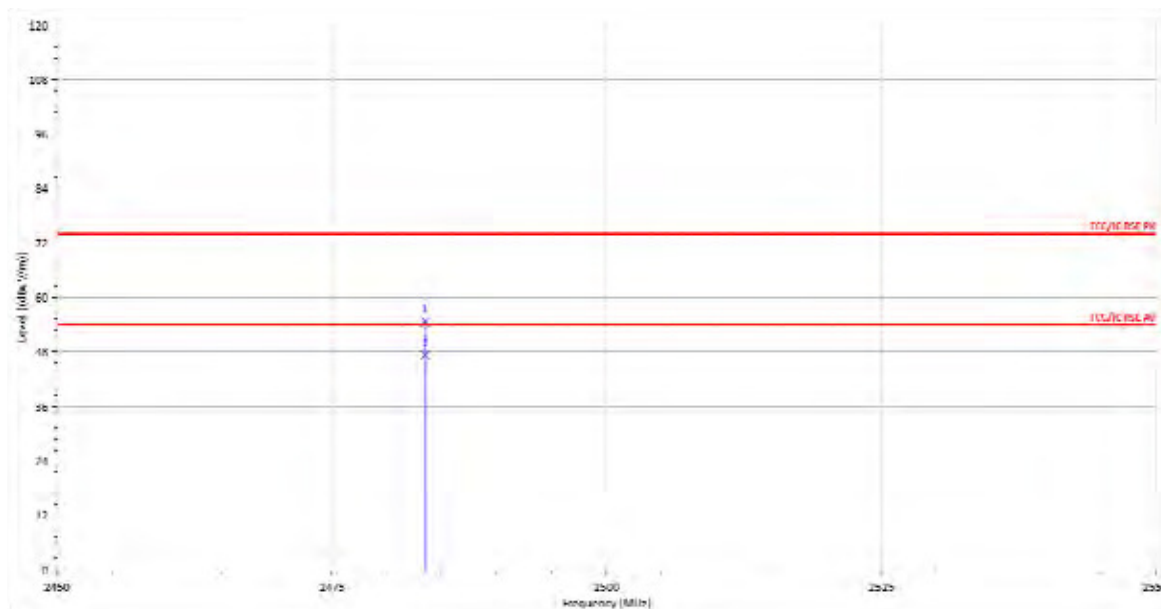
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802.11b CH12

Operation Mode :	802.11b	Test Date :	2016/11/3
Fundamental Frequency :	2467 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Detector Mode	Note	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	F/H/E/S	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Peak	E	53.54	1.16	54.70	74.00	-19.30
2483.50	Average	E	46.11	1.16	47.27	54.00	-6.73

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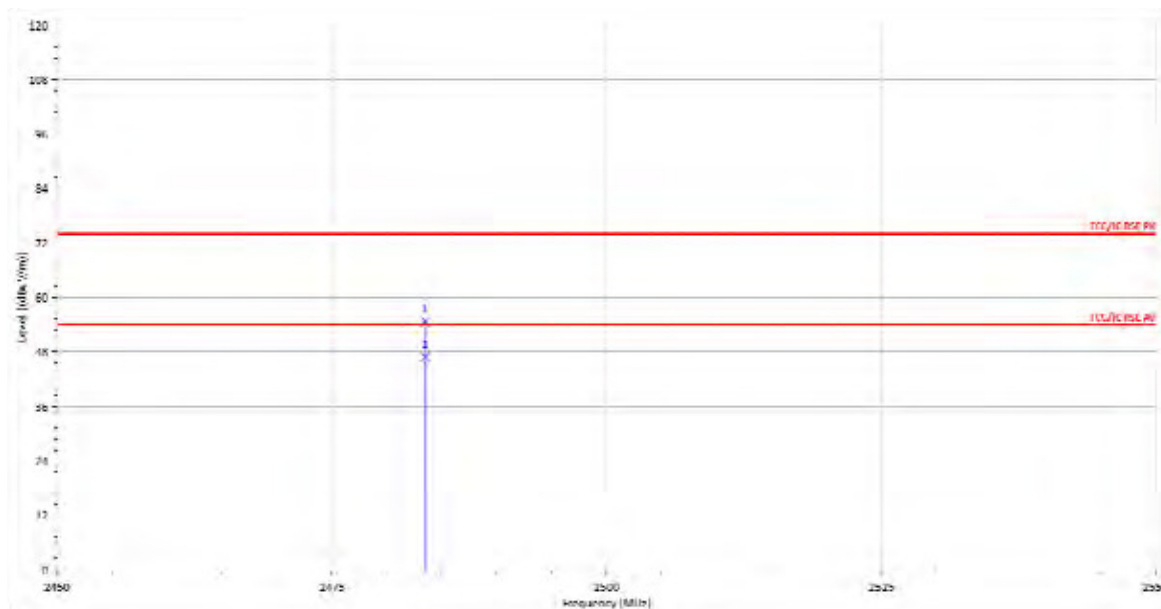
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	53.52	1.16	54.68	74.00	-19.32
2483.50	Average	E	45.74	1.16	46.90	54.00	-7.10

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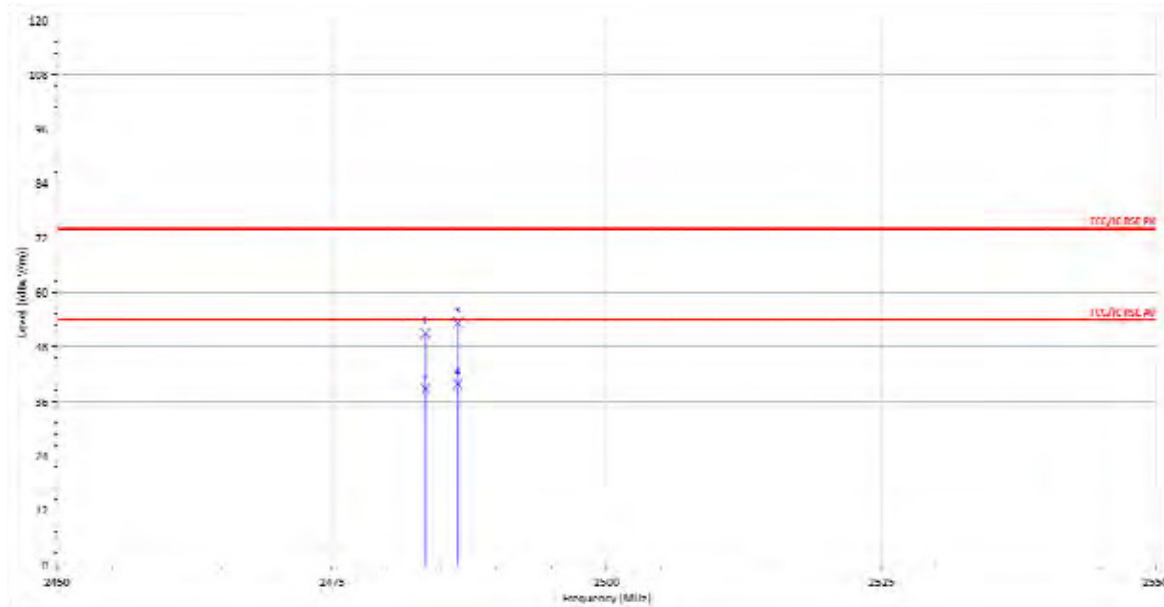
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802.11b CH13

Operation Mode :	802.11b	Test Date :	2016/11/3
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	49.81	1.16	50.97	74.00	-23.03
2483.50	Average	E	37.57	1.16	38.73	54.00	-15.27
2486.50	Peak	S	52.17	1.15	53.32	74.00	-20.68
2486.50	Average	S	38.64	1.15	39.79	54.00	-14.21

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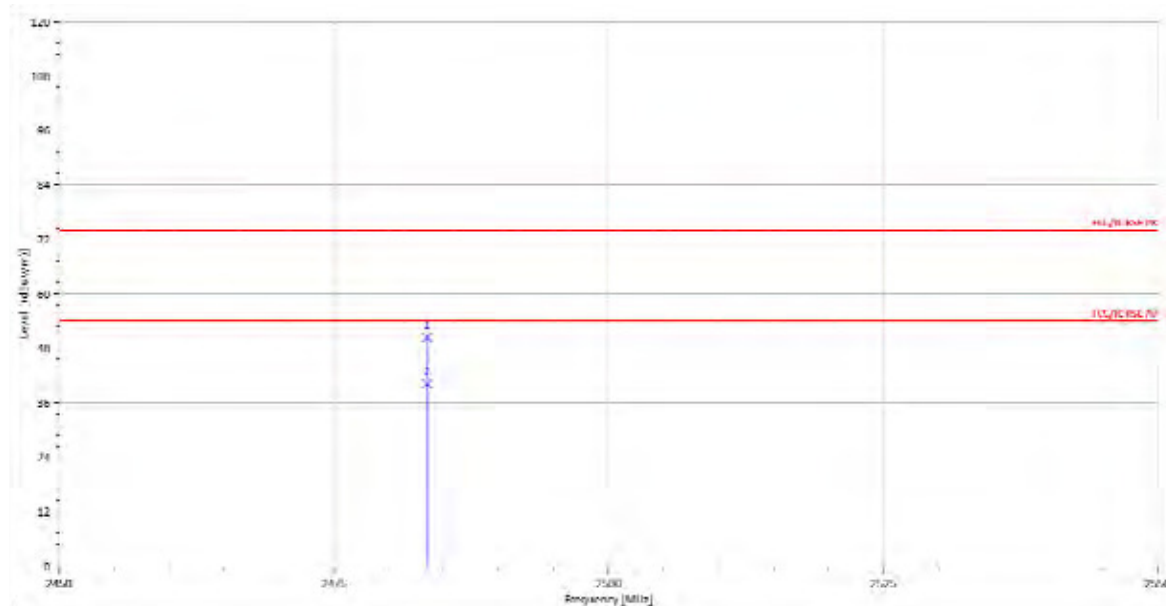
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Operation Mode :	802.11b	Test Date :	2016/11/3
Fundamental Frequency :	2472 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	49.22	1.16	50.38	74.00	-23.62
2483.50	Average	E	38.97	1.16	40.13	54.00	-13.87

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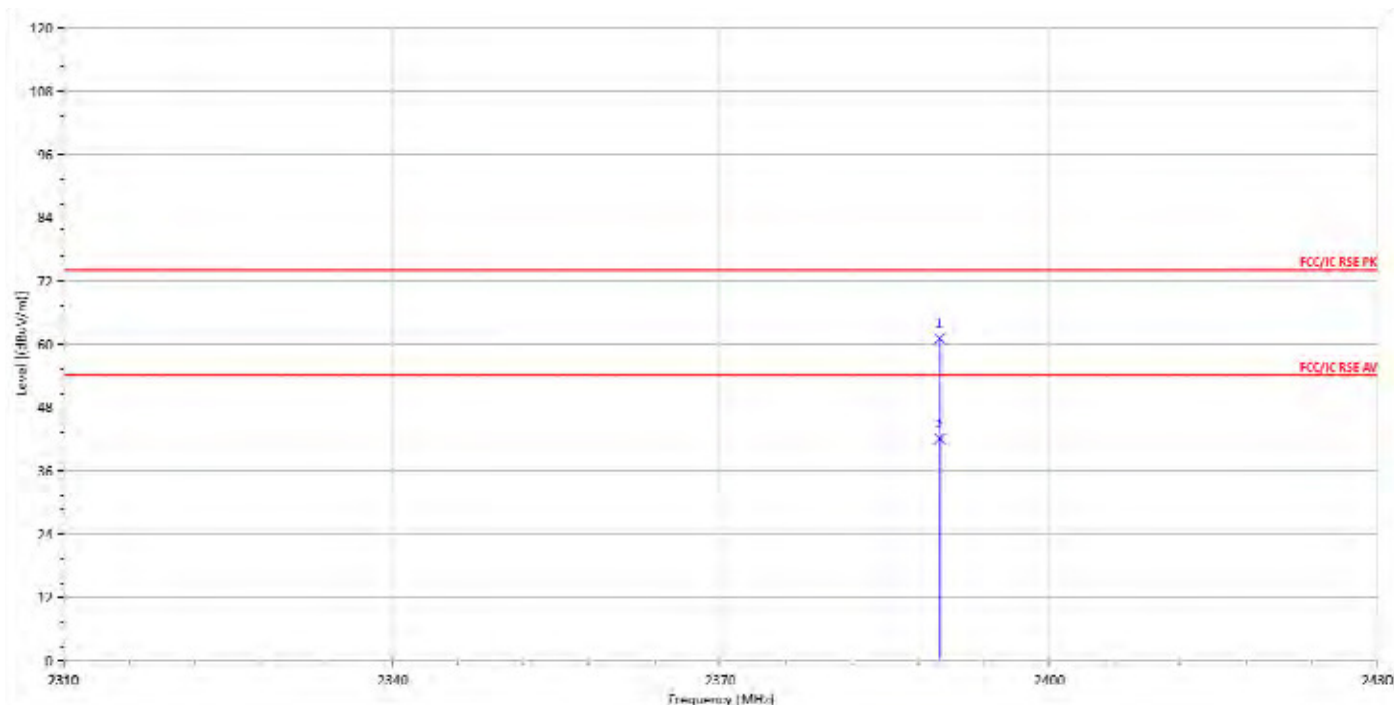
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Radiated Band Edge Measurement Result (802.11g)

Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	60.19	0.92	61.12	74	-12.88
2390.00	E	Average	41.13	0.92	42.05	54	-11.95

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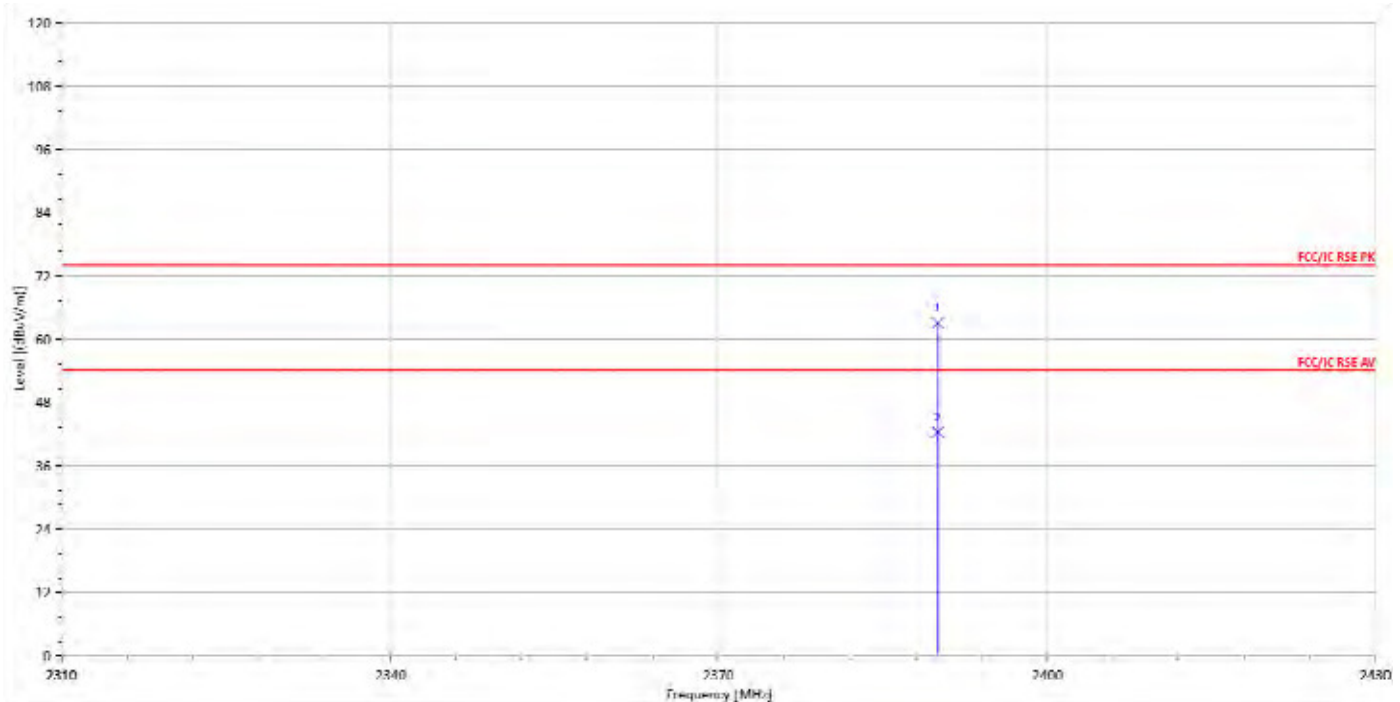
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	62.17	0.92	63.10	74	-10.90
2390.00	E	Average	41.47	0.92	42.39	54	-11.61

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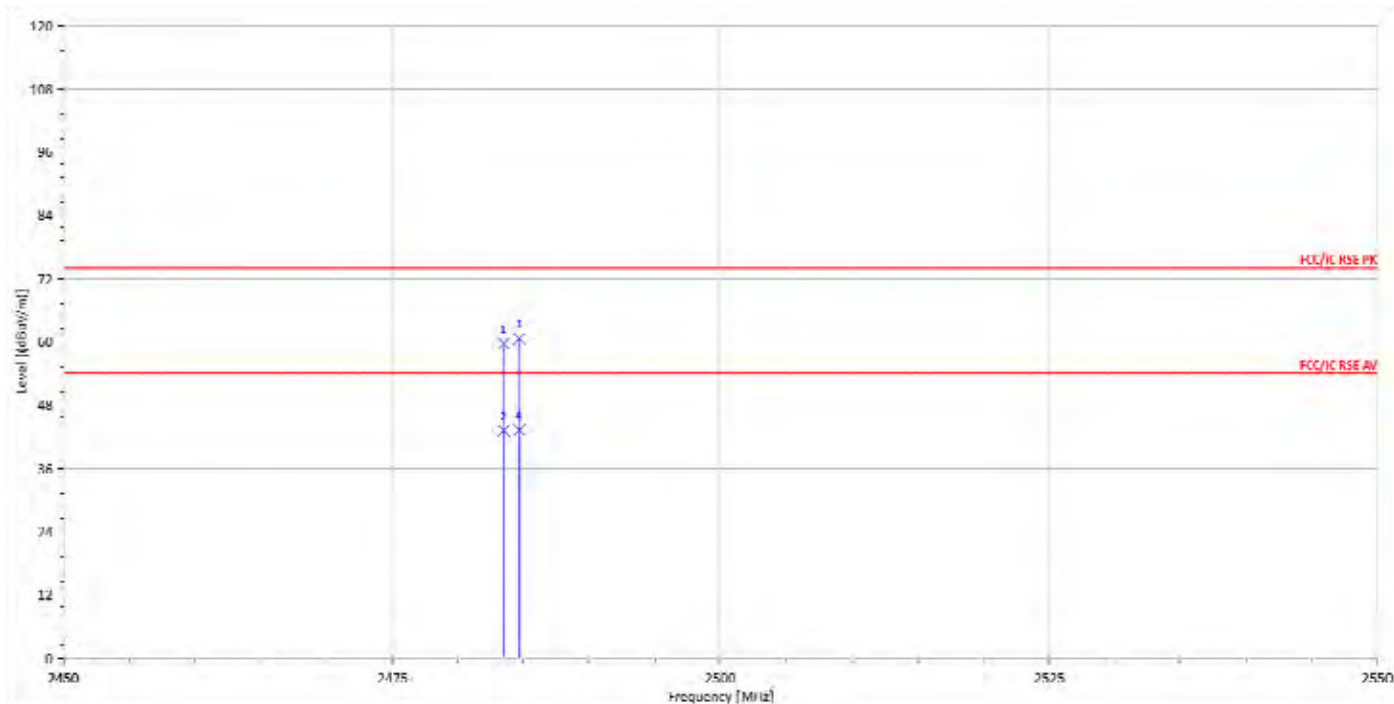
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	58.37	1.16	59.53	74	-14.47
2483.50	E	Average	41.90	1.16	43.06	54	-10.94
2484.70	S	Peak	59.32	1.16	60.48	74	-13.52
2484.70	S	Average	42.02	1.16	43.18	54	-10.82

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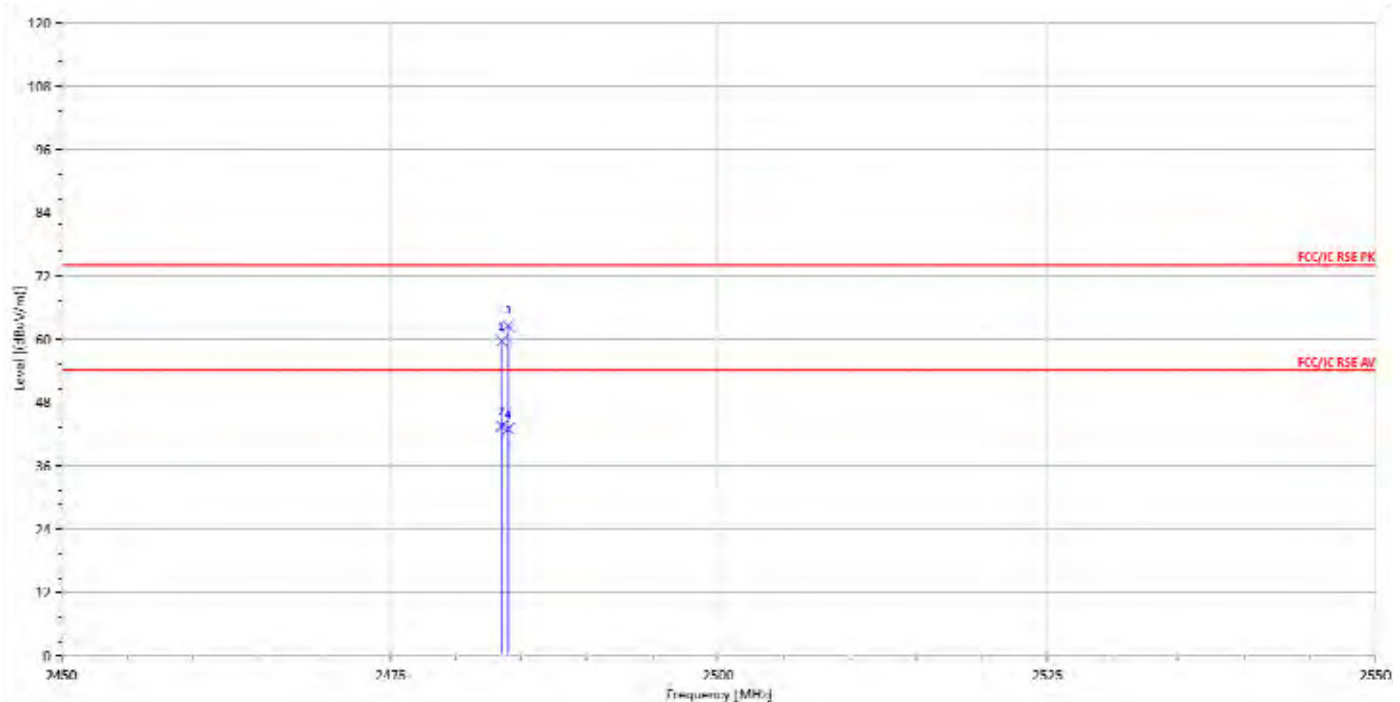
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Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	58.52	1.16	59.68	74	-14.32
2483.50	E	Average	42.34	1.16	43.50	54	-10.50
2484.00	S	Peak	61.42	1.16	62.58	74	-11.42
2484.00	S	Average	41.82	1.16	42.98	54	-11.02

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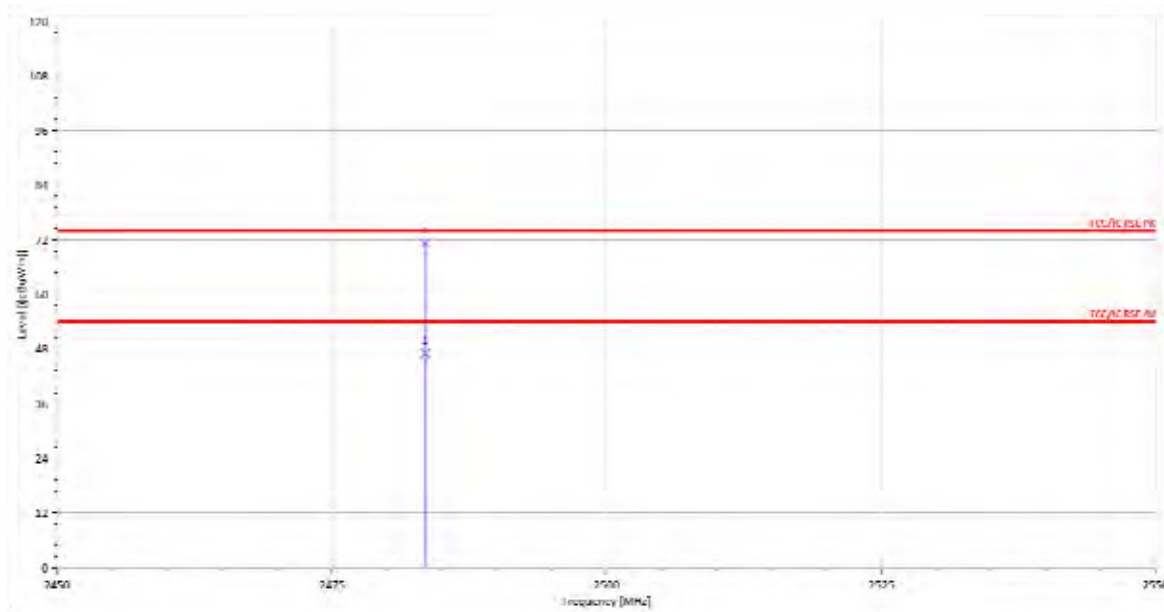
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802.11g CH12

Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	70.10	1.16	71.26	74.00	-2.74
2483.50	Average	E	45.84	1.16	47.00	54.00	-7.00

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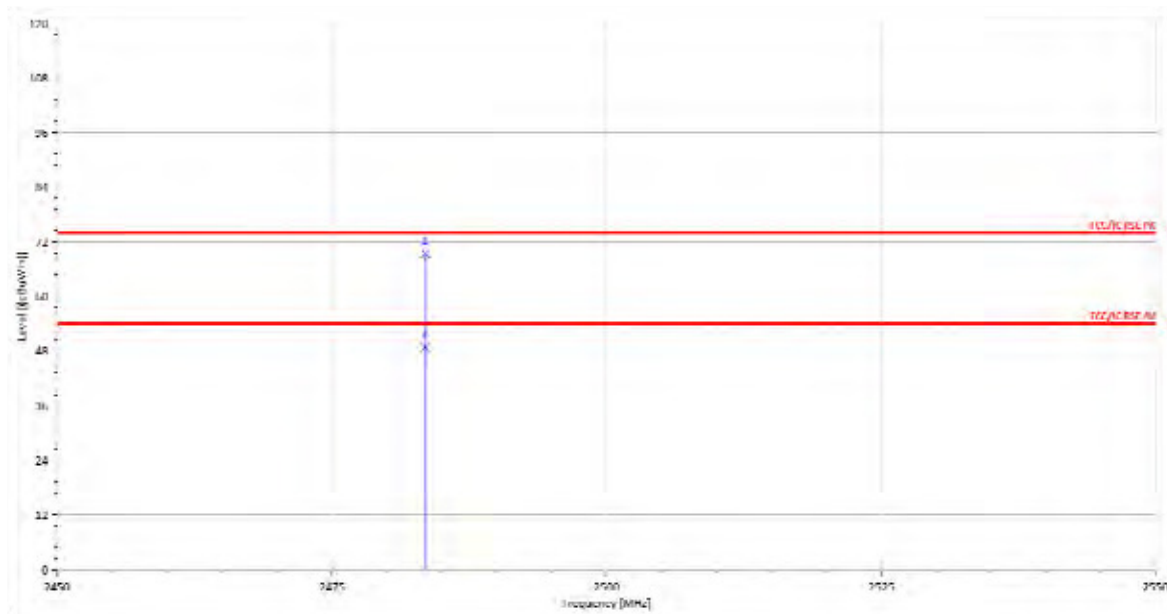
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	68.27	1.16	69.43	74.00	-4.57
2483.50	Average	E	47.77	1.16	48.93	54.00	-5.07

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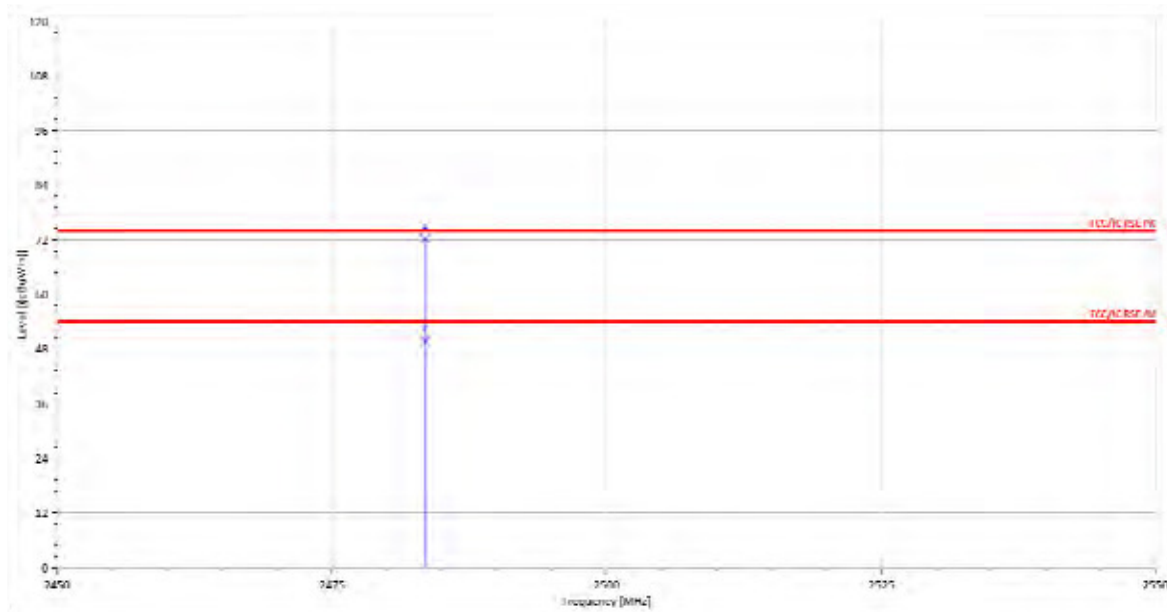
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802.11g CH13

Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	71.05	1.16	72.21	74.00	-1.79
2483.50	Average	E	48.72	1.16	49.88	54.00	-4.12

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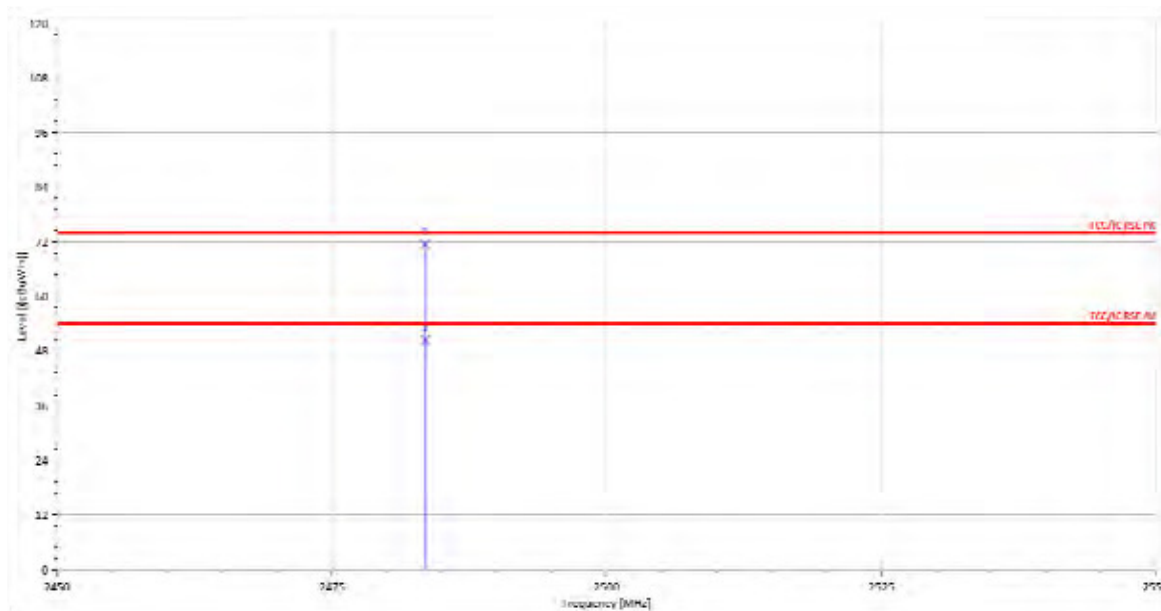
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	70.24	1.16	71.40	74.00	-2.60
2483.50	Average	E	49.17	1.16	50.33	54.00	-3.67

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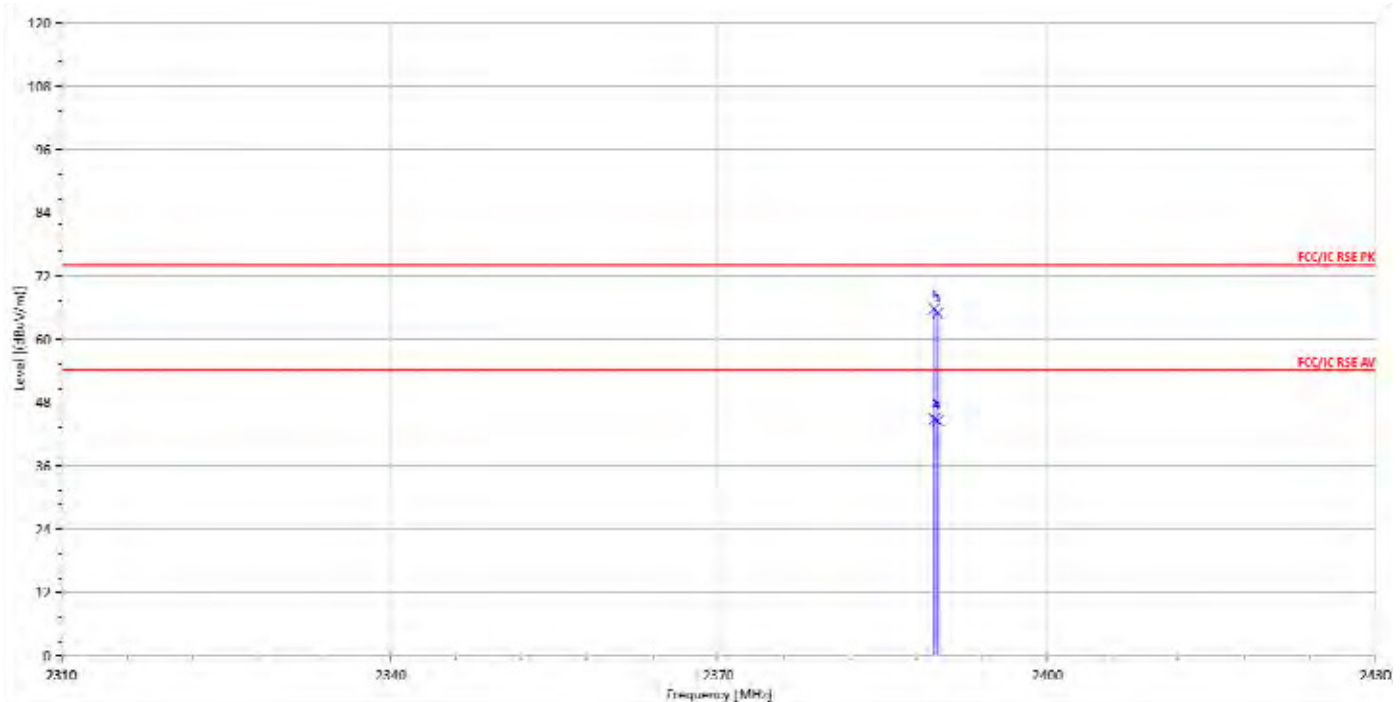
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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/11/3
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2389.68	S	Peak	64.76	0.92	65.68	74	-8.32
2389.68	S	Average	43.97	0.92	44.89	54	-9.11
2390.00	E	Peak	63.95	0.92	64.87	74	-9.13
2390.00	E	Average	43.65	0.92	44.57	54	-9.43

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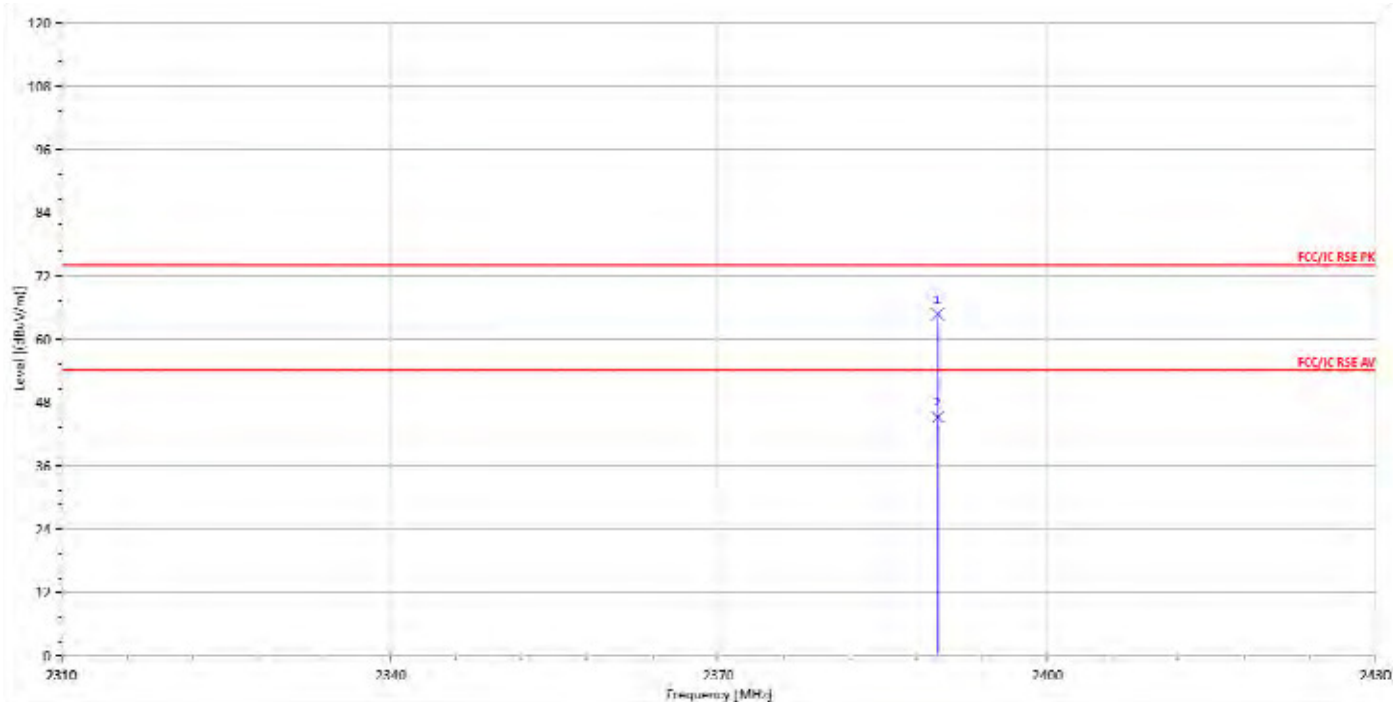
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	63.77	0.92	64.69	74	-9.31
2390.00	E	Average	44.32	0.92	45.24	54	-8.76

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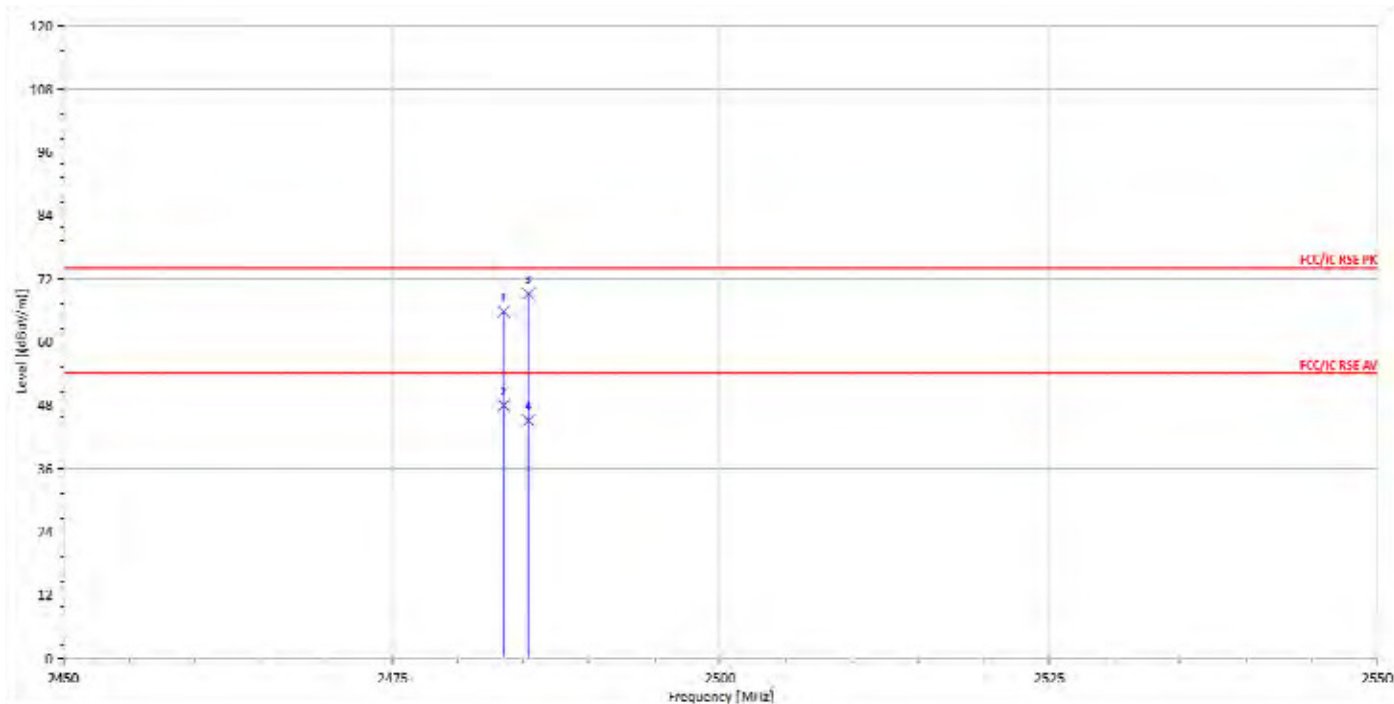
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	64.50	1.16	65.66	74	-8.34
2483.50	E	Average	46.71	1.16	47.87	54	-6.13
2485.40	S	Peak	67.96	1.15	69.11	74	-4.89
2485.40	S	Average	43.83	1.15	44.98	54	-9.02

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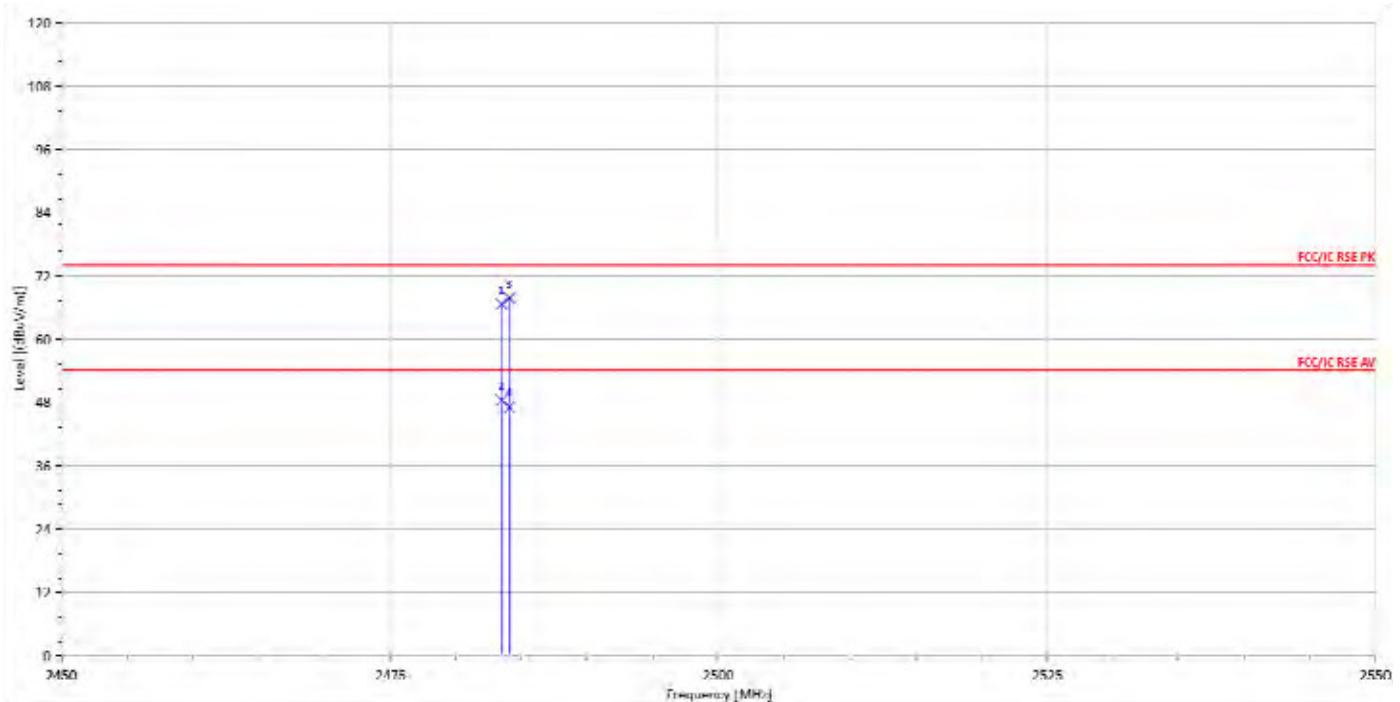
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	65.41	1.16	66.57	74	-7.43
2483.50	E	Average	47.18	1.16	48.34	54	-5.66
2484.10	S	Peak	66.54	1.16	67.70	74	-6.30
2484.10	S	Average	45.90	1.16	47.06	54	-6.94

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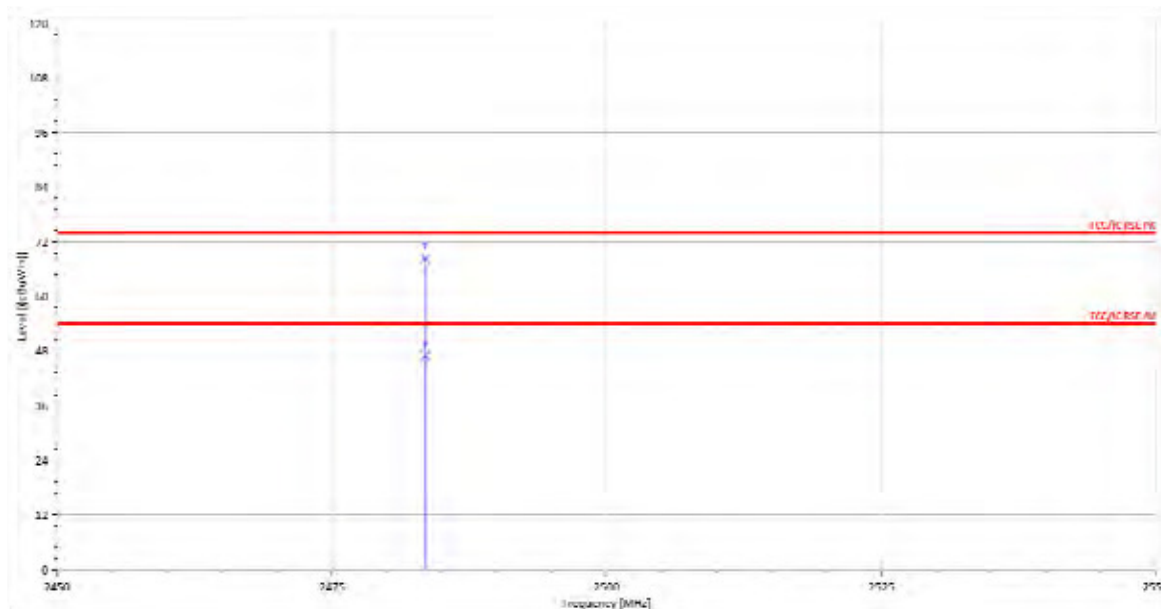
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802.11n_20 CH12

Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	67.28	1.16	68.44	74.00	-5.56
2483.50	Average	E	45.75	1.16	46.91	54.00	-7.09

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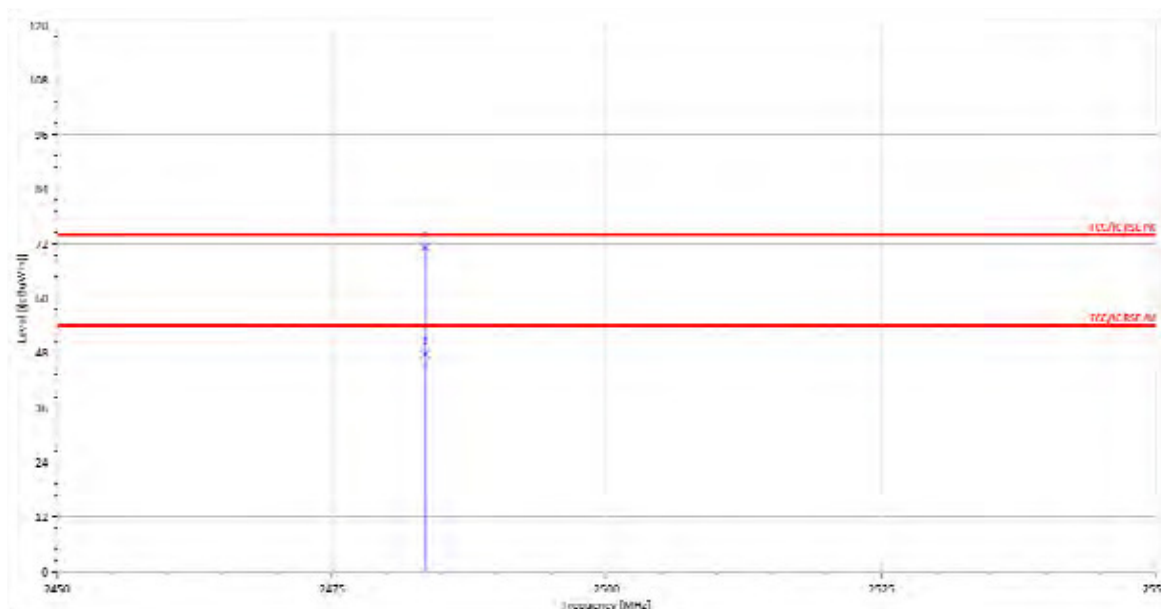
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	70.07	1.16	71.23	74.00	-2.77
2483.50	Average	E	46.56	1.16	47.72	54.00	-6.28

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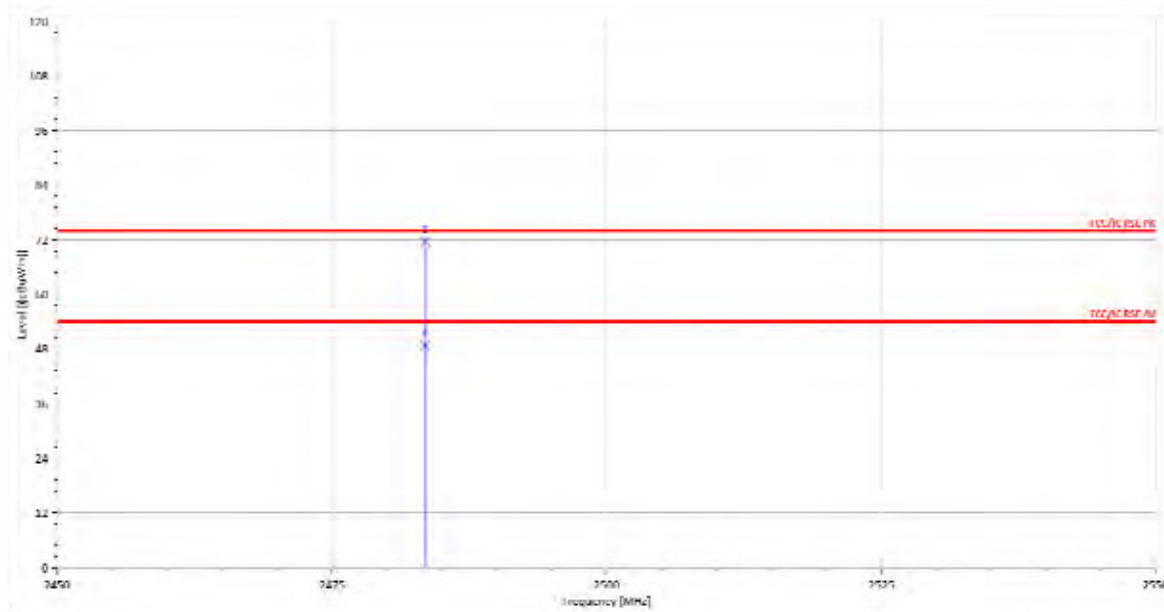
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802.11 n_20 CH13

Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	70.43	1.16	71.59	74.00	-2.41
2483.50	Average	E	47.77	1.16	48.93	54.00	-5.07

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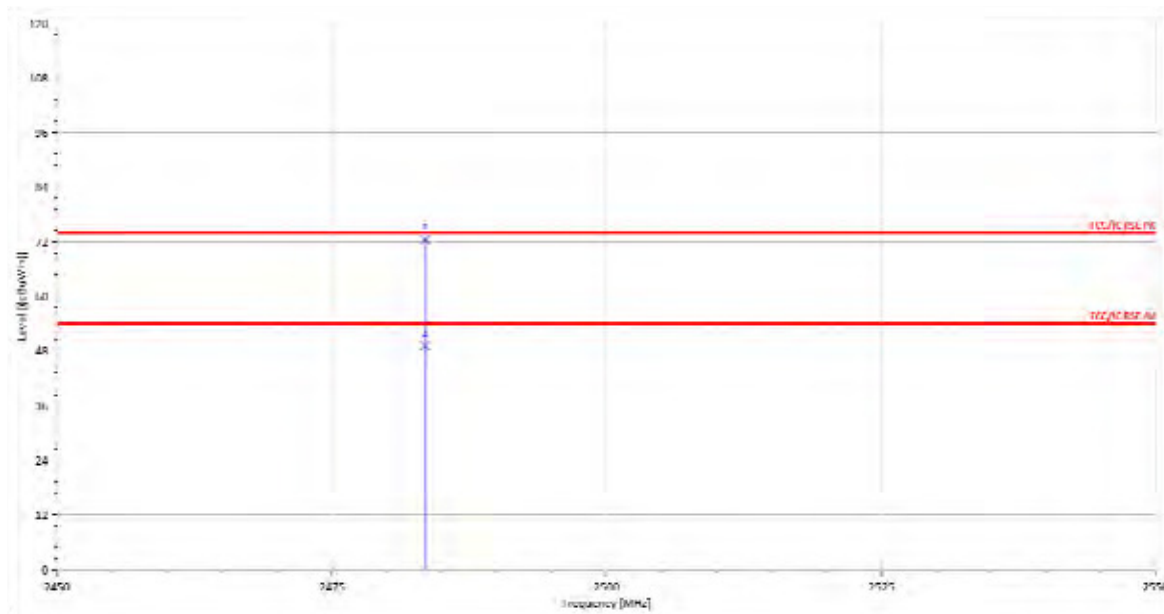
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	71.39	1.16	72.55	74.00	-1.45
2483.50	Average	E	47.99	1.16	49.15	54.00	-4.85

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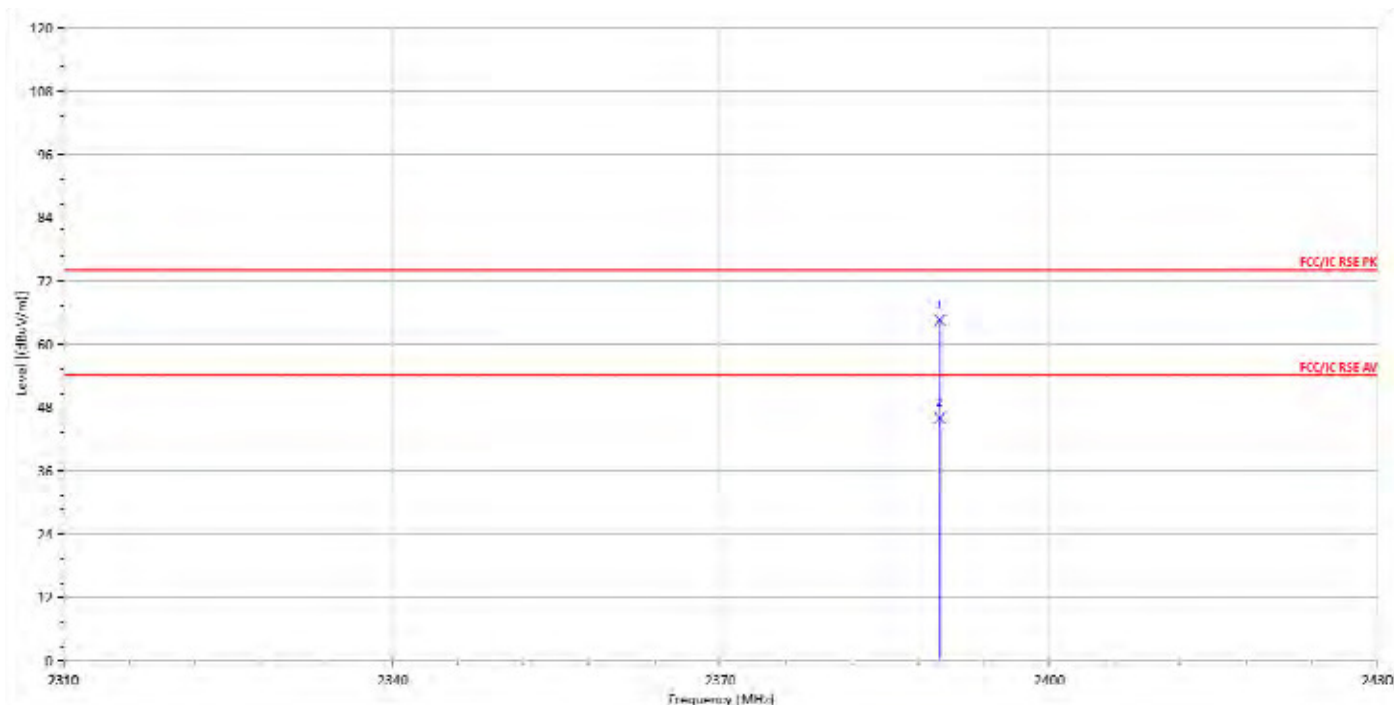
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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	63.62	0.92	64.54	74	-9.46
2390.00	E	Average	45.12	0.92	46.04	54	-7.96

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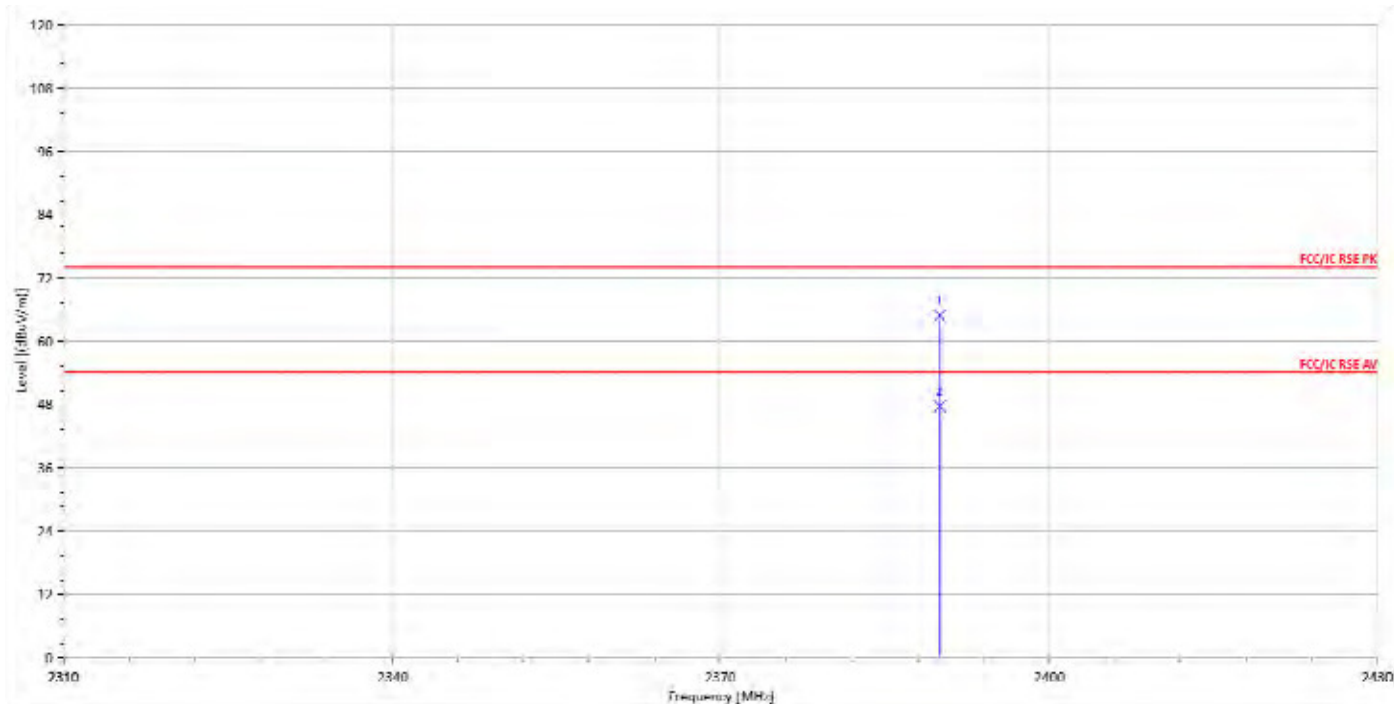
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	E	Peak	63.87	0.92	64.79	74	-9.21
2390.00	E	Average	46.64	0.92	47.56	54	-6.44

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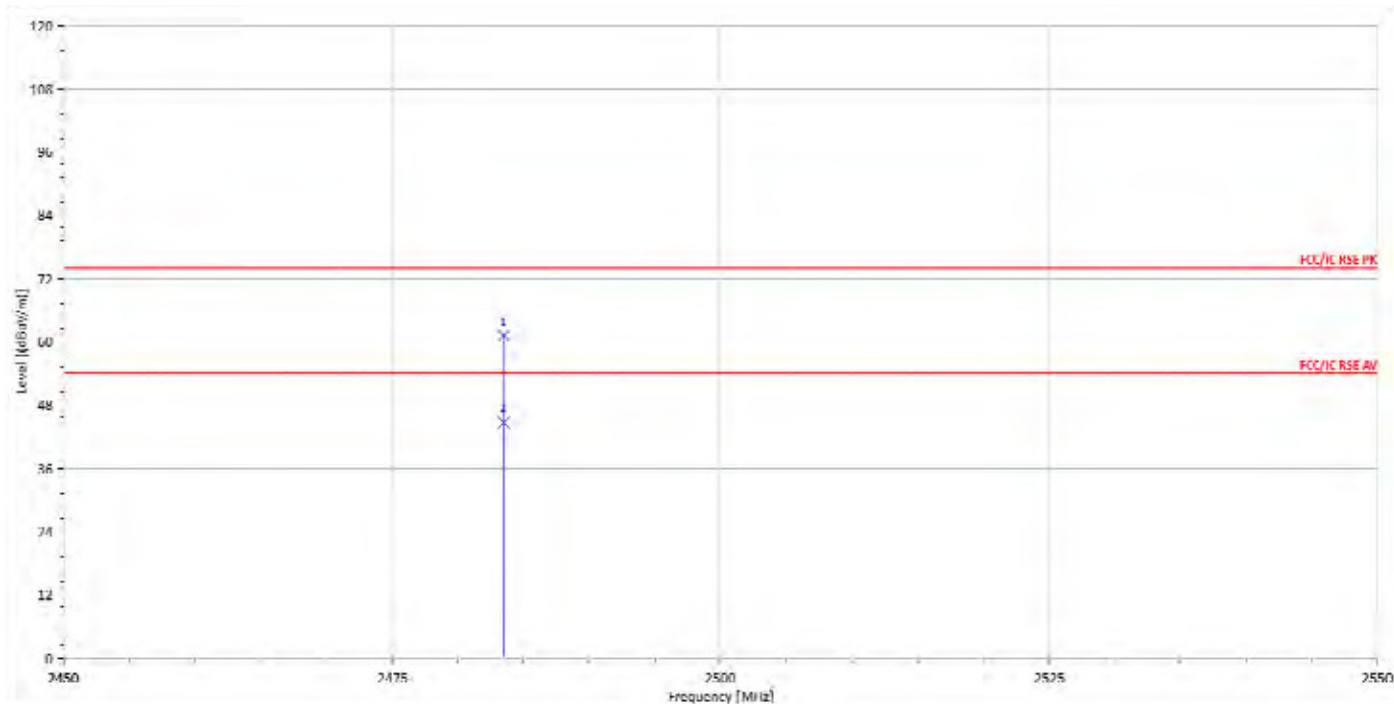
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	59.94	1.16	61.10	74	-12.90
2483.50	E	Average	43.42	1.16	44.58	54	-9.42

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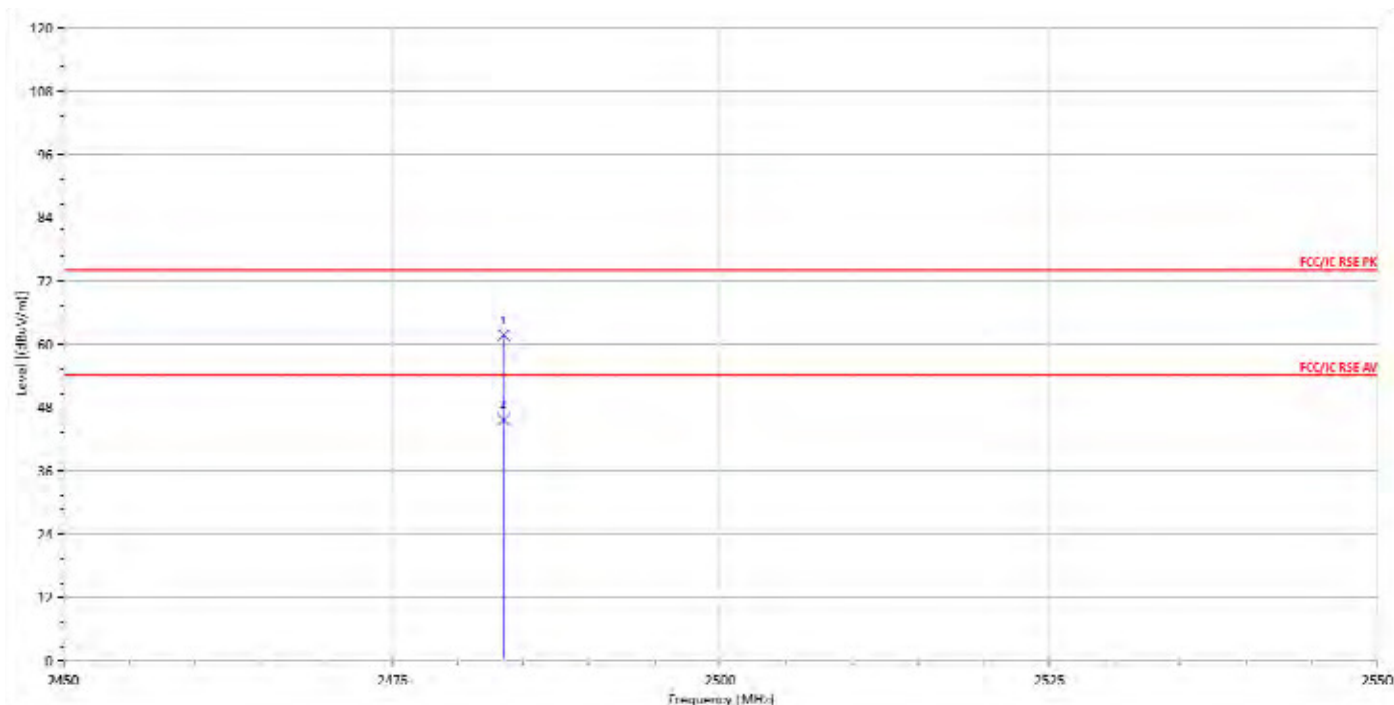
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	60.61	1.16	61.77	74	-12.23
2483.50	E	Average	44.52	1.16	45.68	54	-8.32

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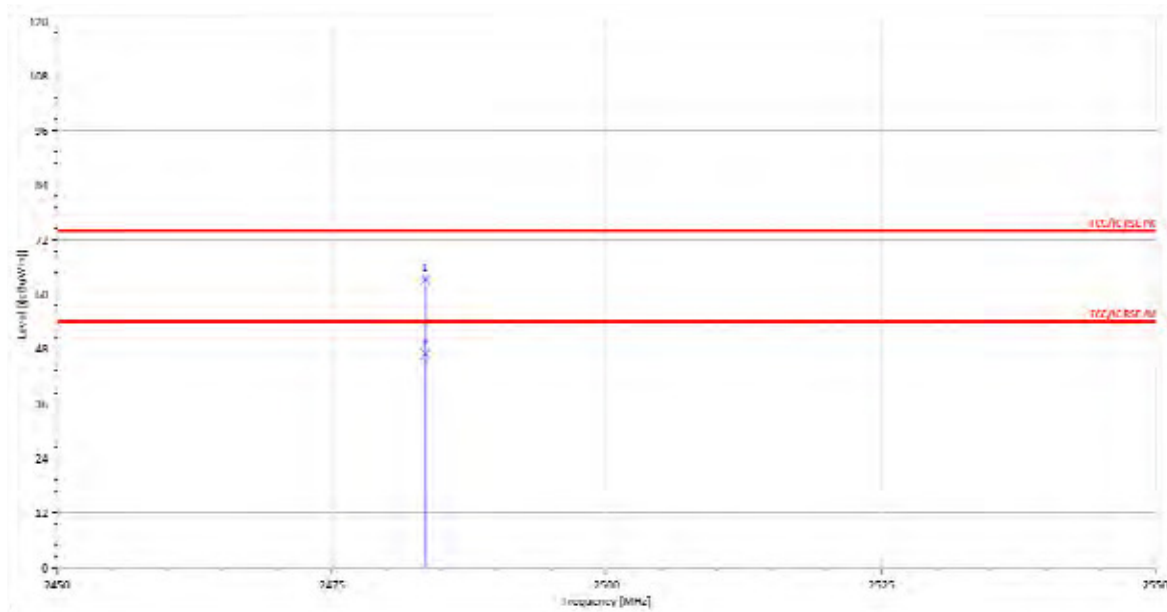
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802.11n_40 CH10

Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2457 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	62.11	1.16	63.27	74.00	-10.73
2483.50	Average	E	45.72	1.16	46.88	54.00	-7.12

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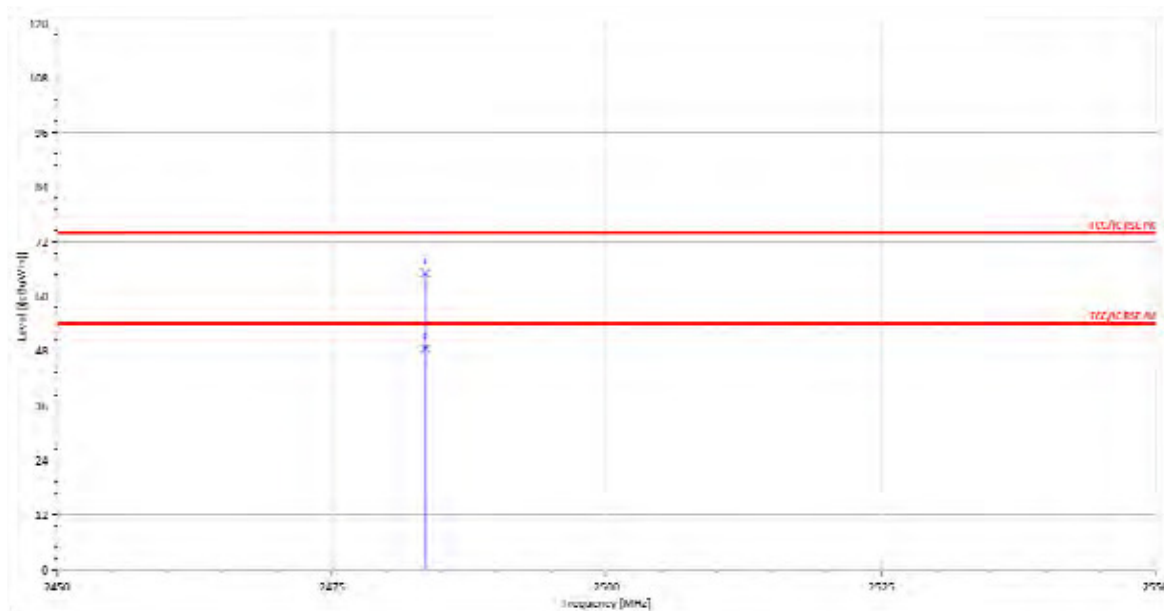
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2457 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	63.92	1.16	65.08	74.00	-8.92
2483.50	Average	E	47.42	1.16	48.58	54.00	-5.42

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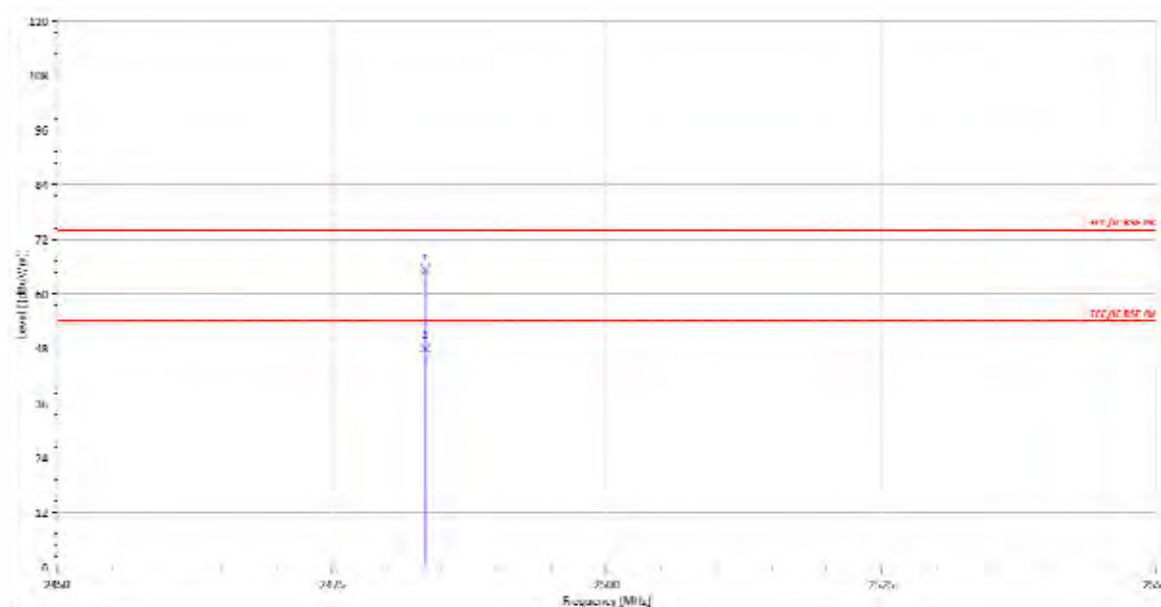
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802.11 n_40 CH11

Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	64.14	1.16	65.30	74.00	-8.70
2483.50	Average	E	46.93	1.16	48.09	54.00	-5.91

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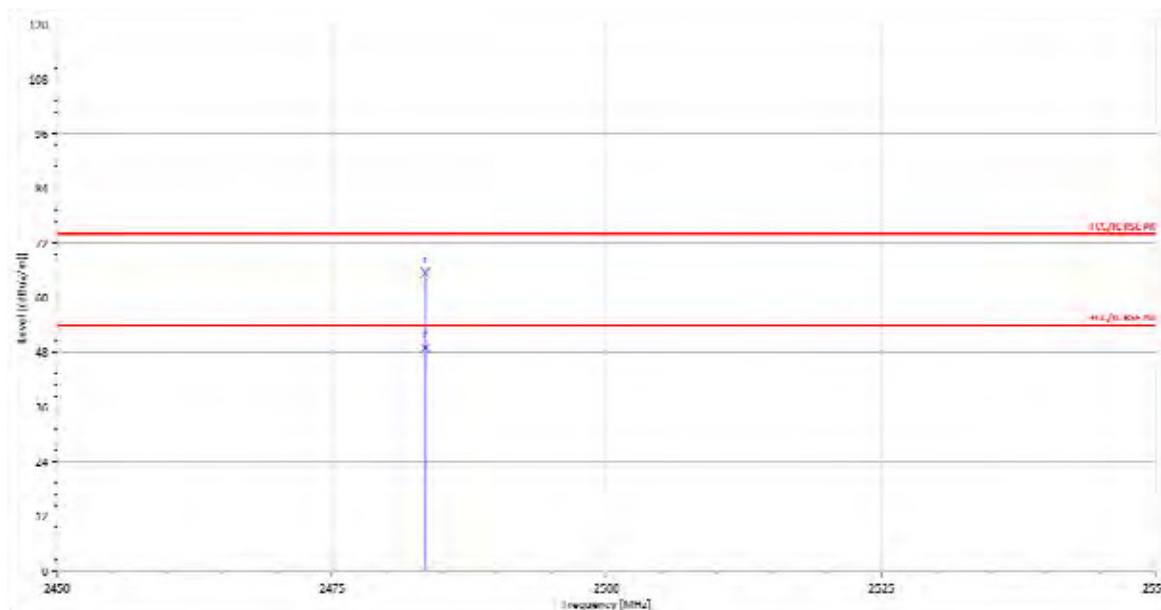
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2483.50	Peak	E	64.30	1.16	65.46	74.00	-8.54
2483.50	Average	E	47.87	1.16	49.03	54.00	-4.97

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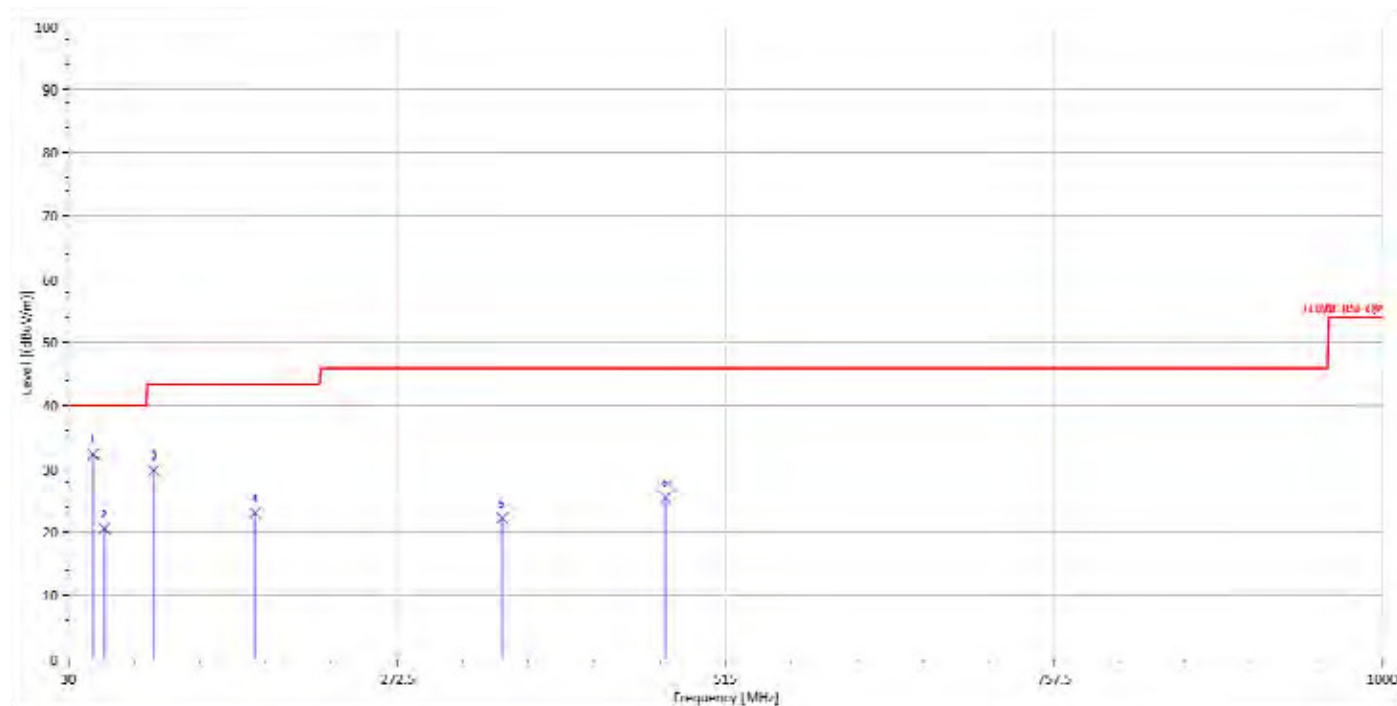
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/11/3
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
48.43	S	Peak	50.80	-18.47	32.32	40	-7.68
56.19	S	Peak	42.14	-21.59	20.56	40	-19.44
93.05	S	Peak	48.79	-18.95	29.84	43.5	-13.66
167.74	S	Peak	41.10	-18.06	23.04	43.5	-20.46
350.10	S	Peak	33.72	-11.55	22.18	46	-23.82
470.38	S	Peak	33.36	-7.85	25.51	46	-20.49

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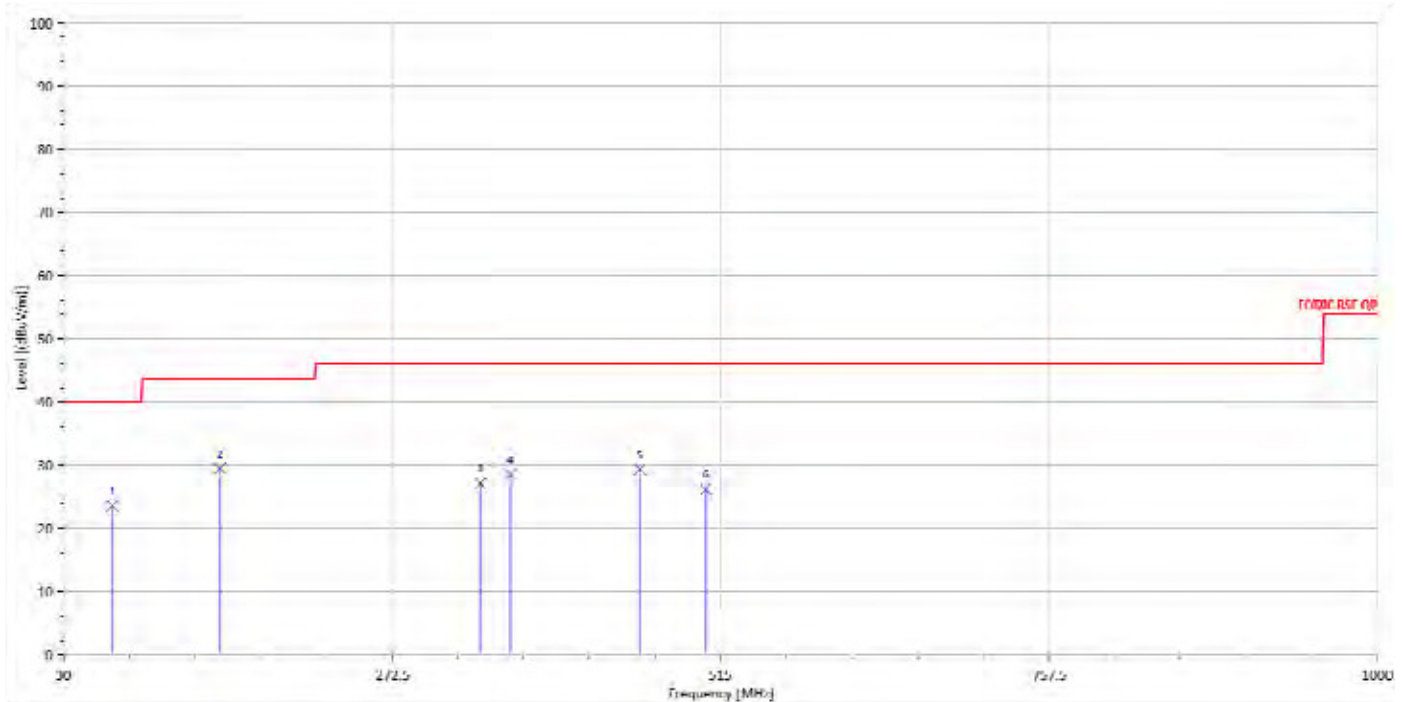
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.89	S	Peak	45.88	-22.29	23.59	40	-16.41
145.43	S	Peak	45.80	-16.39	29.42	43.5	-14.08
337.49	S	Peak	39.00	-11.90	27.10	46	-18.90
359.80	S	Peak	39.64	-11.20	28.44	46	-17.56
455.83	S	Peak	37.70	-8.43	29.26	46	-16.74
504.33	S	Peak	34.05	-7.86	26.19	46	-19.81

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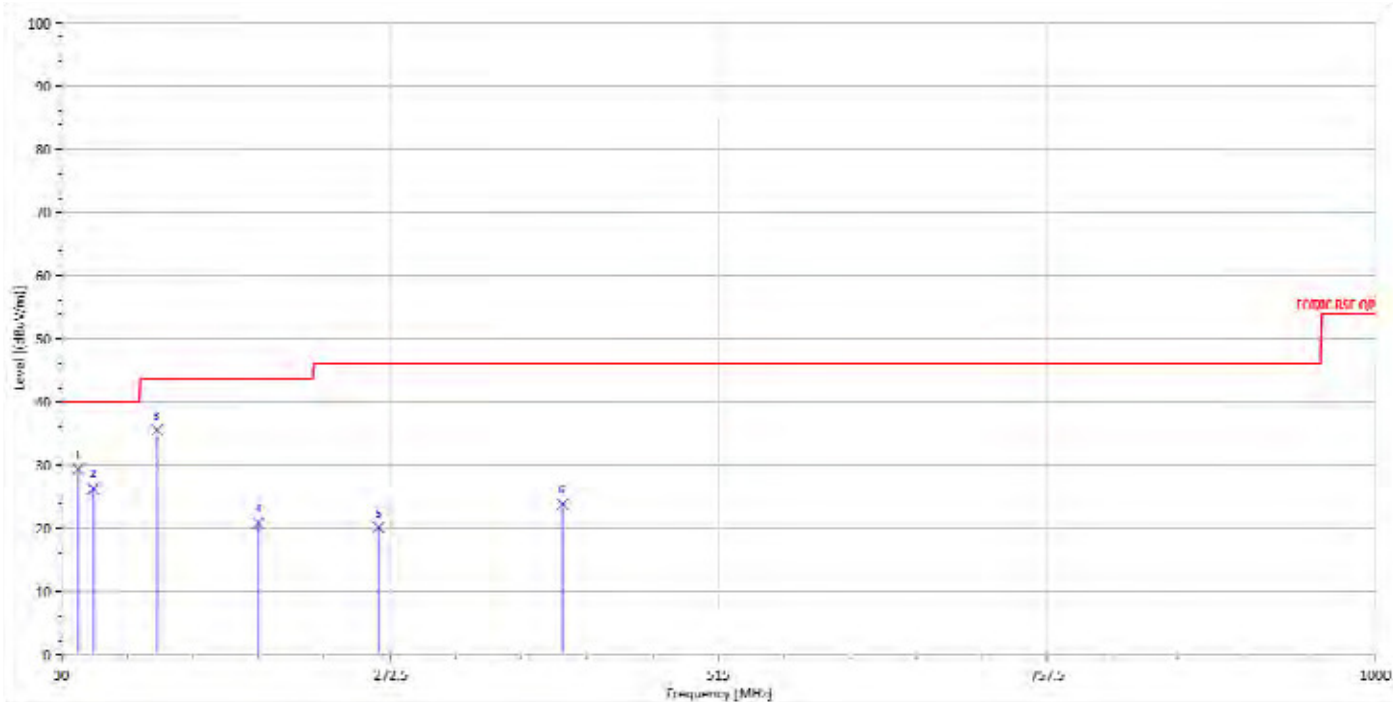
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.61	S	Peak	43.94	-14.63	29.31	40	-10.69
53.28	S	Peak	46.82	-20.53	26.29	40	-13.71
100.81	S	Peak	53.22	-17.64	35.57	43.5	-7.93
175.50	S	Peak	39.29	-18.51	20.78	43.5	-22.72
263.77	S	Peak	33.93	-13.80	20.13	46	-25.87
399.57	S	Peak	33.60	-9.73	23.86	46	-22.14

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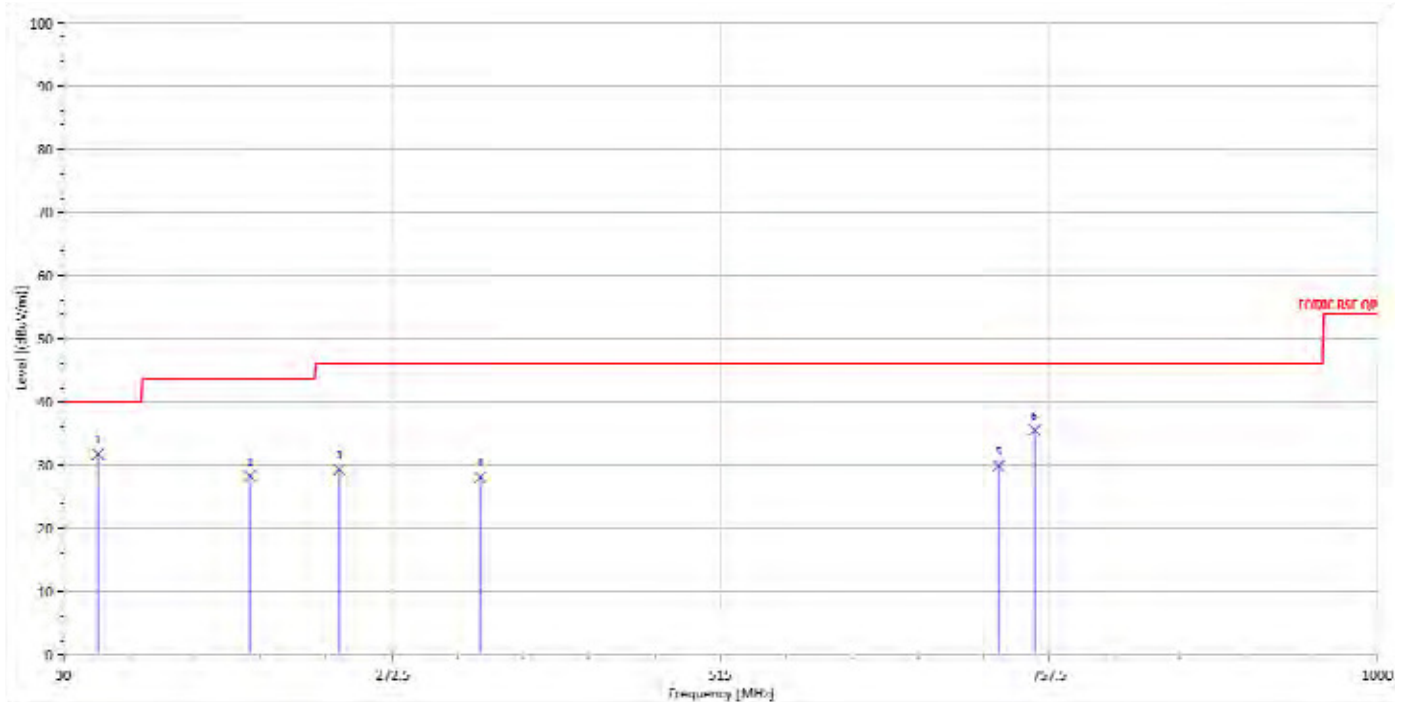
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Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
55.22	S	Peak	52.94	-21.25	31.70	40	-8.30
167.74	S	Peak	46.29	-18.06	28.23	43.5	-15.27
233.70	S	Peak	45.16	-15.92	29.24	46	-16.76
337.49	S	Peak	39.89	-11.90	27.99	46	-18.01
720.64	S	Peak	34.63	-4.83	29.80	46	-16.20
746.83	S	Peak	39.76	-4.23	35.53	46	-10.47

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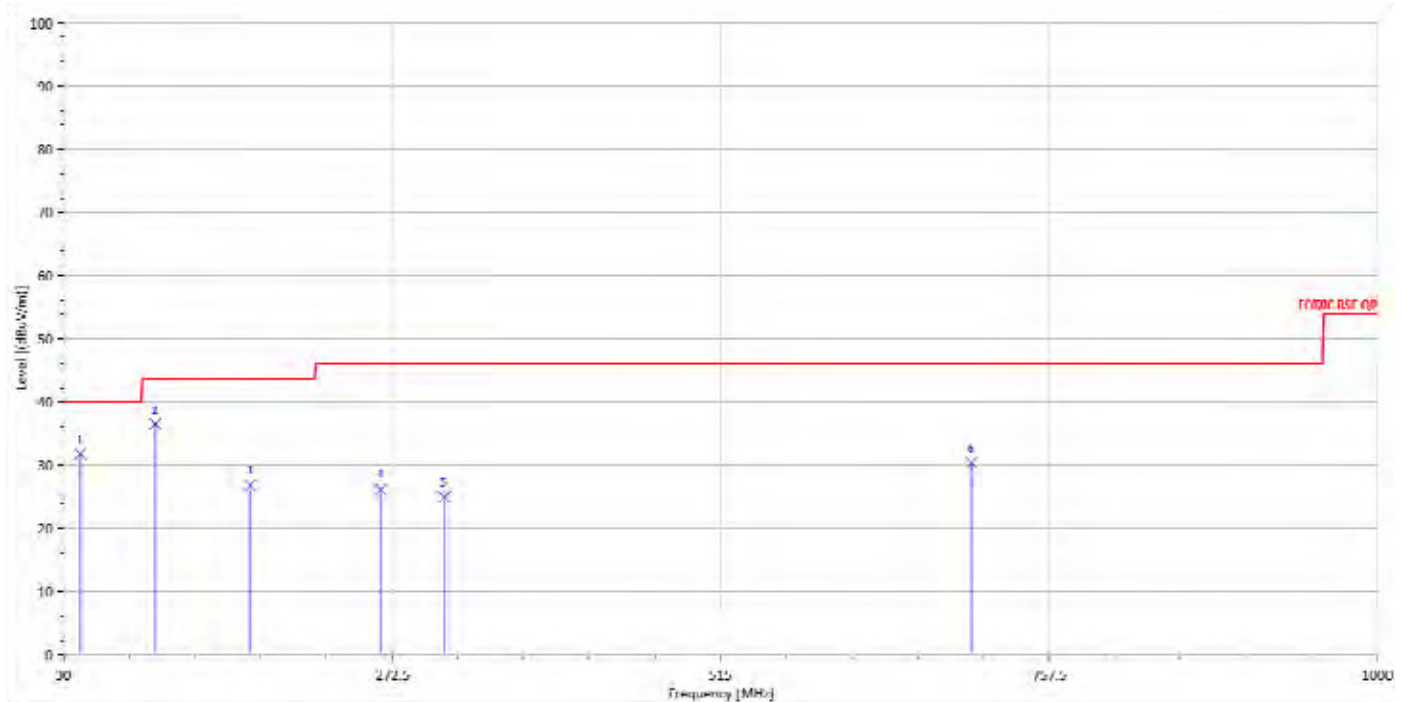
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
42.61	S	Peak	46.37	-14.63	31.74	40	-8.26
97.90	S	Peak	54.61	-18.10	36.51	43.5	-6.99
167.74	S	Peak	44.86	-18.06	26.81	43.5	-16.69
263.77	S	Peak	39.95	-13.80	26.15	46	-19.85
311.30	S	Peak	37.58	-12.57	25.01	46	-20.99
700.27	S	Peak	35.53	-5.20	30.33	46	-15.67

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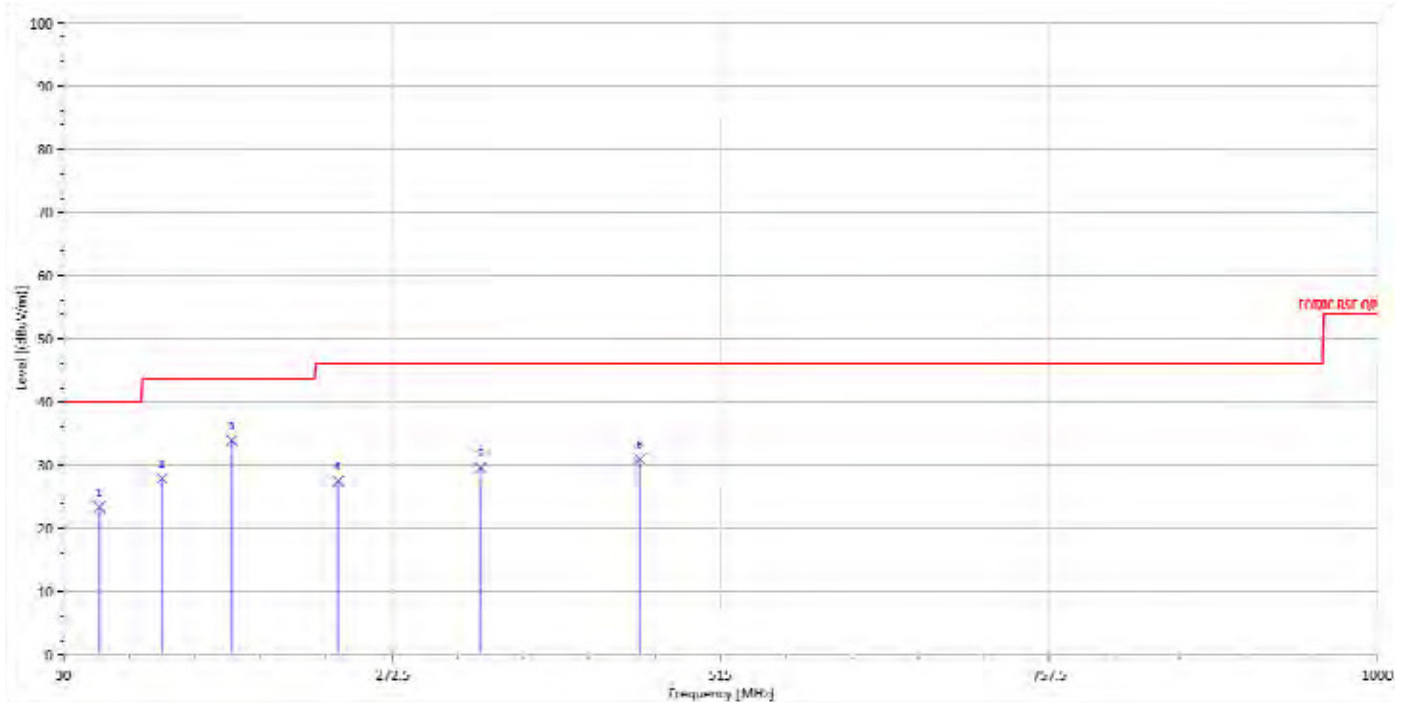
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
56.19	S	Peak	44.98	-21.59	23.39	40	-16.61
102.75	S	Peak	45.21	-17.40	27.81	43.5	-15.69
154.16	S	Peak	50.85	-16.97	33.88	43.5	-9.62
232.73	S	Peak	43.37	-15.99	27.38	46	-18.62
337.49	S	Peak	41.42	-11.90	29.52	46	-16.48
455.83	S	Peak	39.36	-8.43	30.93	46	-15.07

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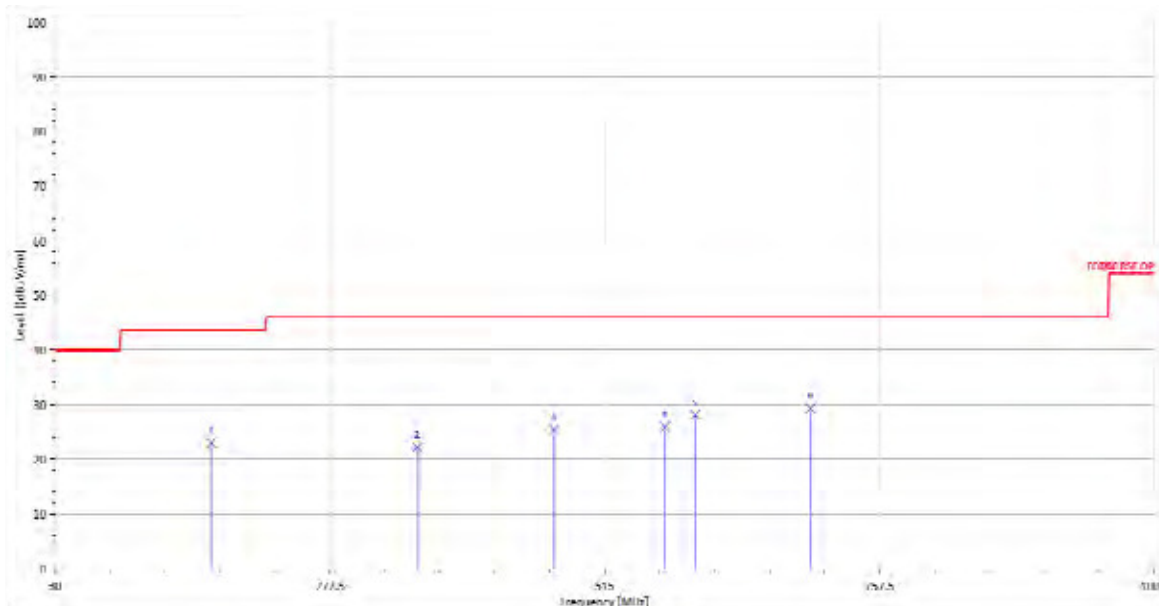
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
167.74	Peak	S	41.10	-18.06	23.04	43.50	-20.46
350.10	Peak	S	33.72	-11.55	22.18	46.00	-23.82
470.38	Peak	S	33.36	-7.85	25.51	46.00	-20.49
568.35	Peak	S	32.57	-6.71	25.86	46.00	-20.14
595.51	Peak	S	34.07	-6.01	28.06	46.00	-17.94
697.36	Peak	S	34.47	-5.14	29.34	46.00	-16.66

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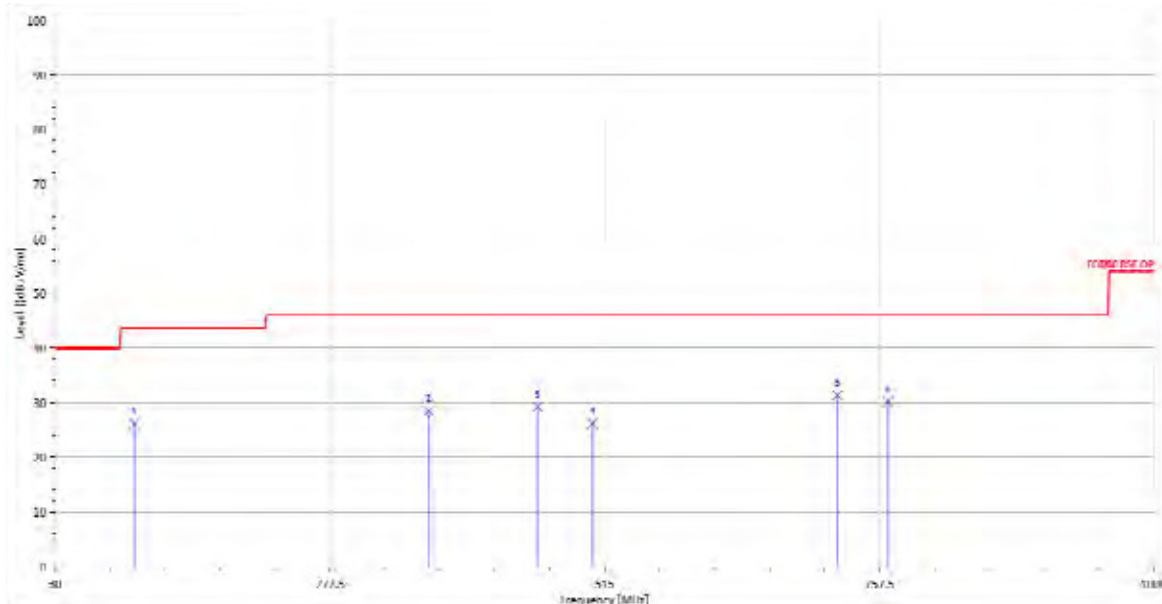
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
99.84	Peak	S	43.96	-17.77	26.19	43.50	-17.31
359.80	Peak	S	39.64	-11.20	28.44	46.00	-17.56
455.83	Peak	S	37.70	-8.43	29.26	46.00	-16.74
504.33	Peak	S	34.05	-7.86	26.19	46.00	-19.81
720.64	Peak	S	36.18	-4.83	31.35	46.00	-14.65
765.26	Peak	S	34.51	-4.32	30.20	46.00	-15.80

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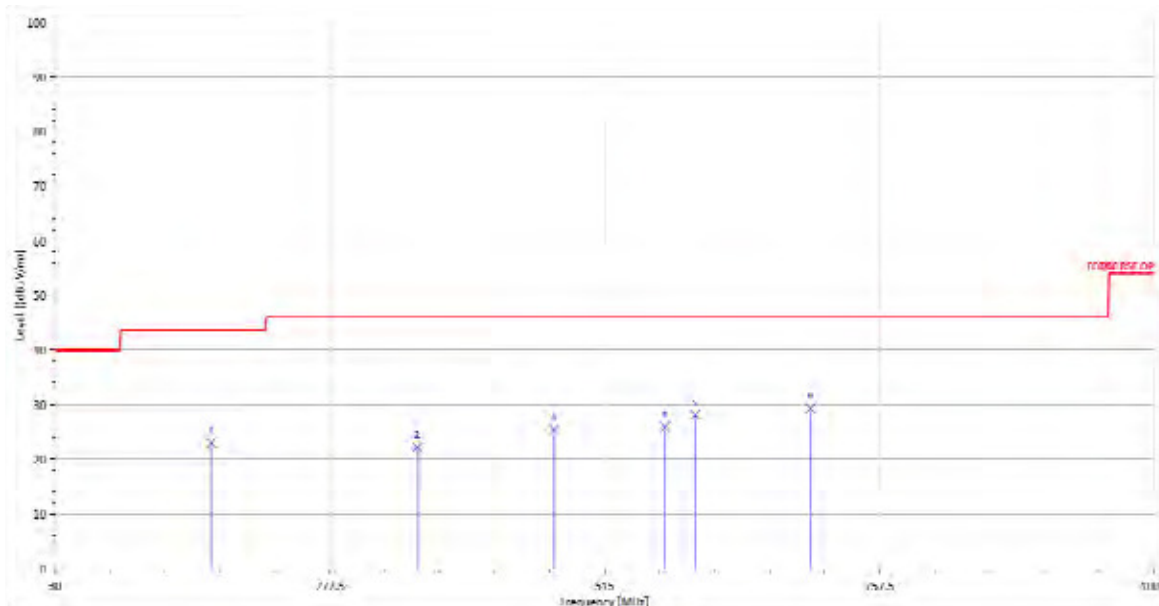
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
167.74	Peak	S	41.10	-18.06	23.04	43.50	-20.46
350.10	Peak	S	33.72	-11.55	22.18	46.00	-23.82
470.38	Peak	S	33.36	-7.85	25.51	46.00	-20.49
568.35	Peak	S	32.57	-6.71	25.86	46.00	-20.14
595.51	Peak	S	34.07	-6.01	28.06	46.00	-17.94
697.36	Peak	S	34.47	-5.14	29.34	46.00	-16.66

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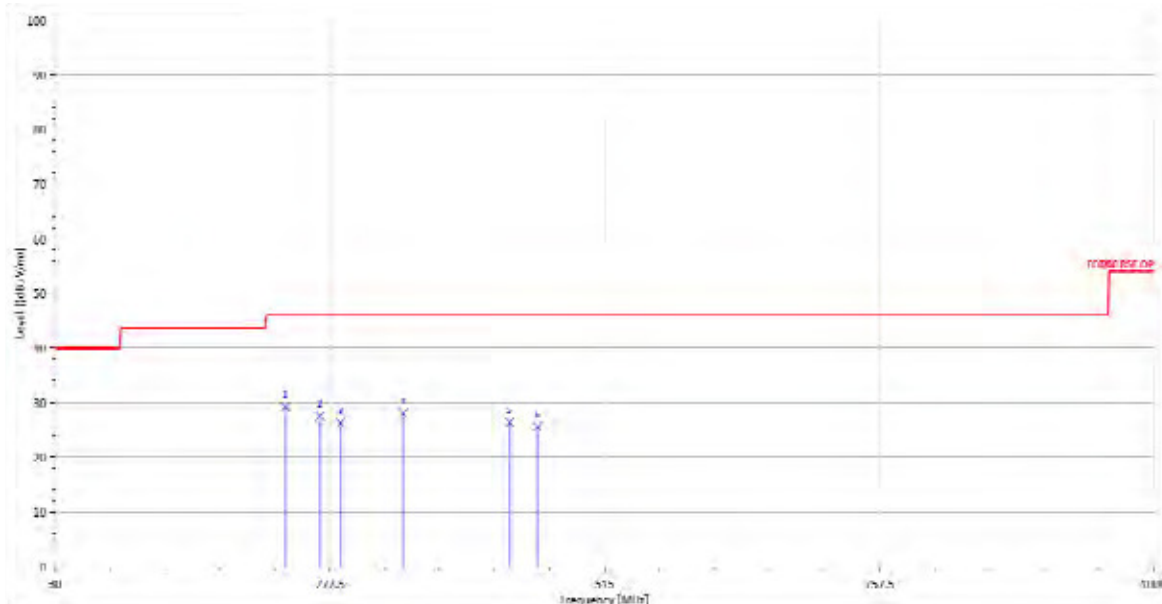
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Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
233.70	Peak	S	45.16	-15.92	29.24	46.00	-16.76
263.77	Peak	S	41.32	-13.80	27.52	46.00	-18.48
282.20	Peak	S	39.81	-13.53	26.28	46.00	-19.72
337.49	Peak	S	39.89	-11.90	27.99	46.00	-18.01
431.58	Peak	S	35.78	-9.39	26.39	46.00	-19.61
455.83	Peak	S	34.01	-8.43	25.58	46.00	-20.42

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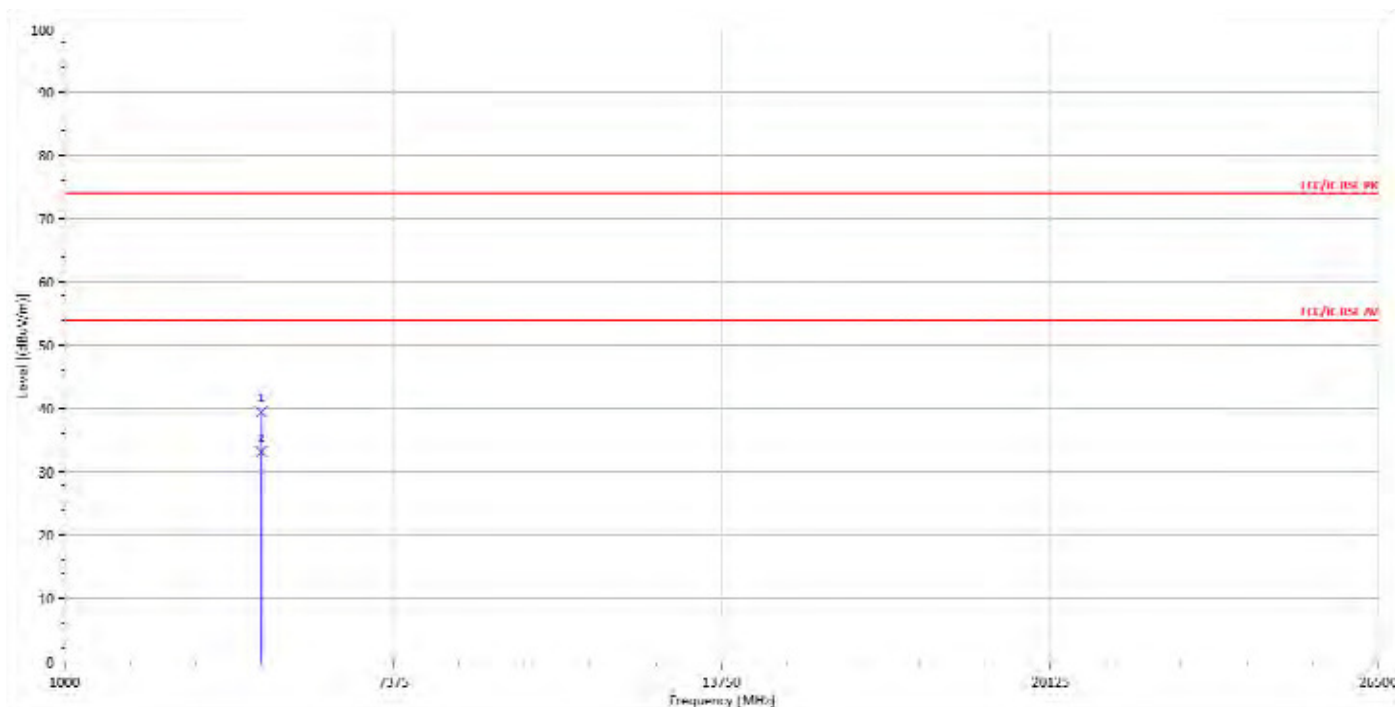
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2016/11/5
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	31.92	7.58	39.50	74	-34.50
4824.00	H	Average	25.54	7.58	33.12	54	-20.88

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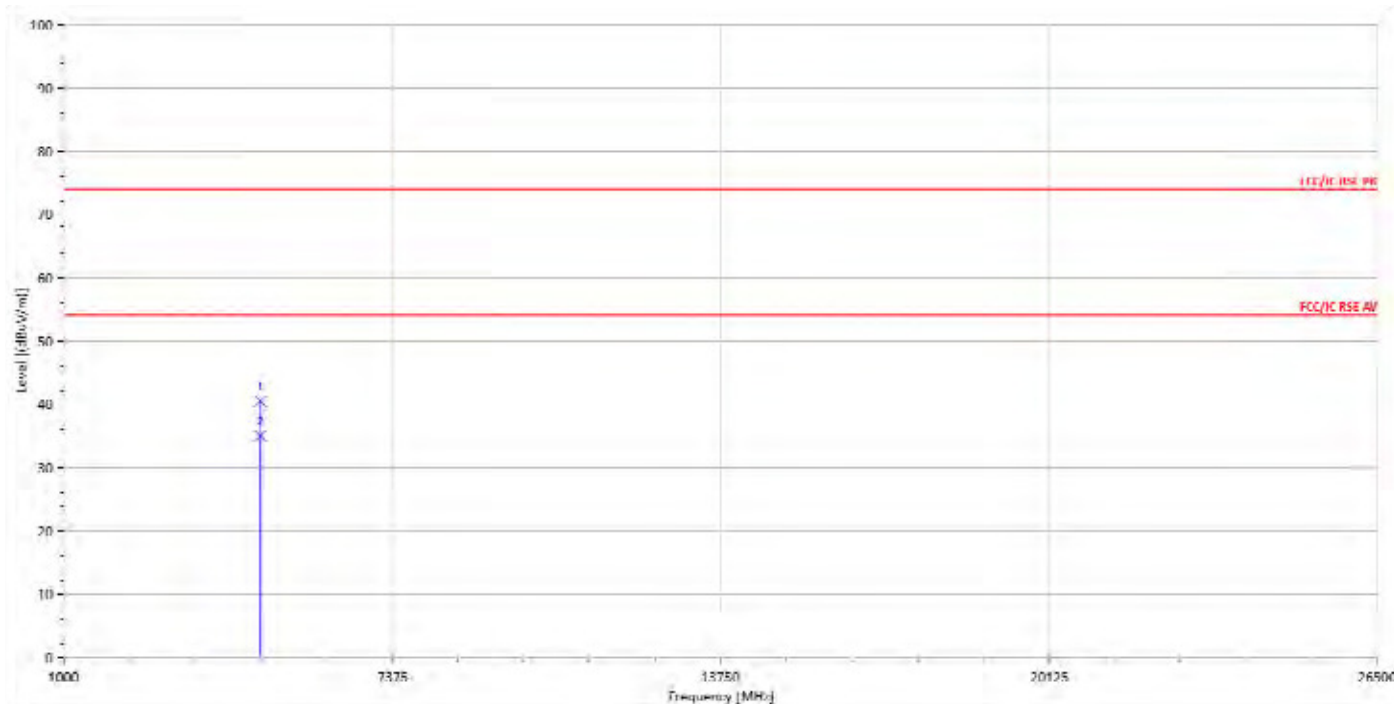
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Operation Mode : 802.11b Test Date : 2016/11/5
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	32.85	7.58	40.43	74	-33.57
4824.00	H	Average	27.44	7.58	35.02	54	-18.98

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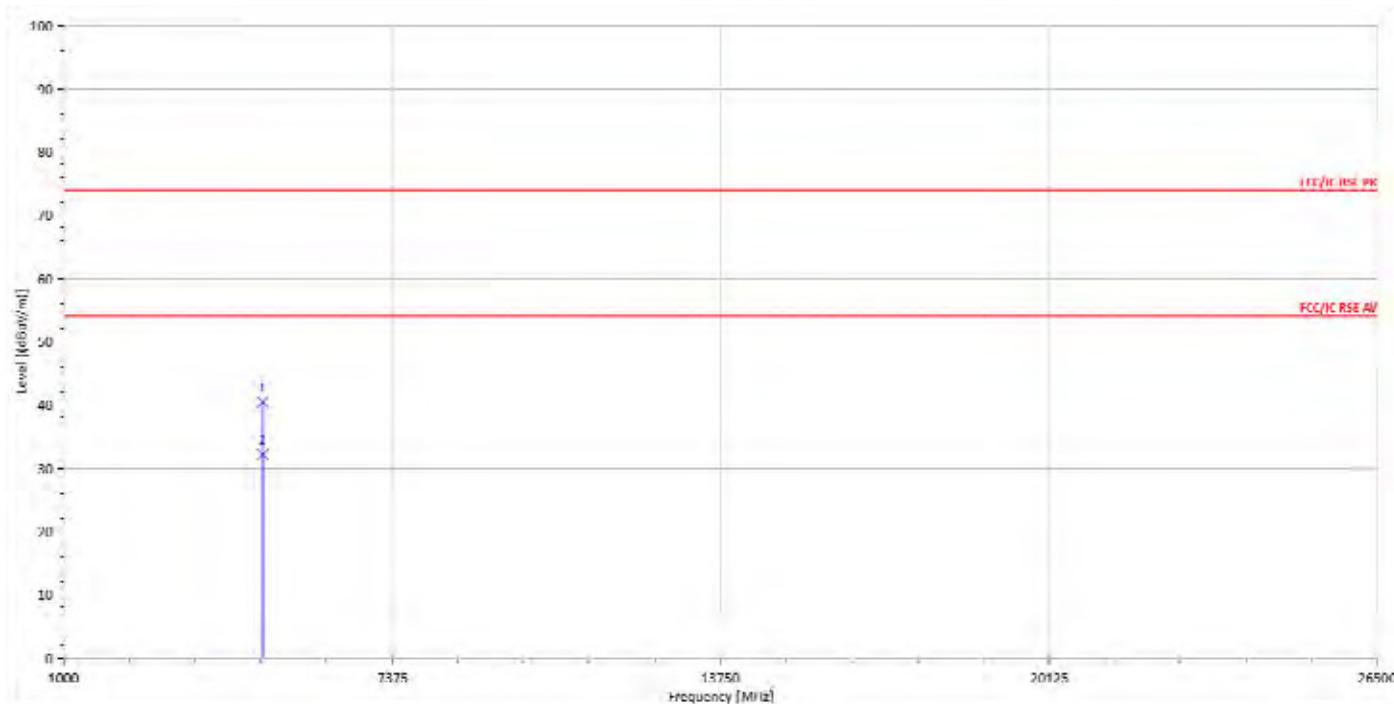
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Member of SGS Group

Operation Mode : 802.11b Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	H	Peak	32.55	7.91	40.46	74	-33.54
4874.00	H	Average	24.28	7.91	32.19	54	-21.81

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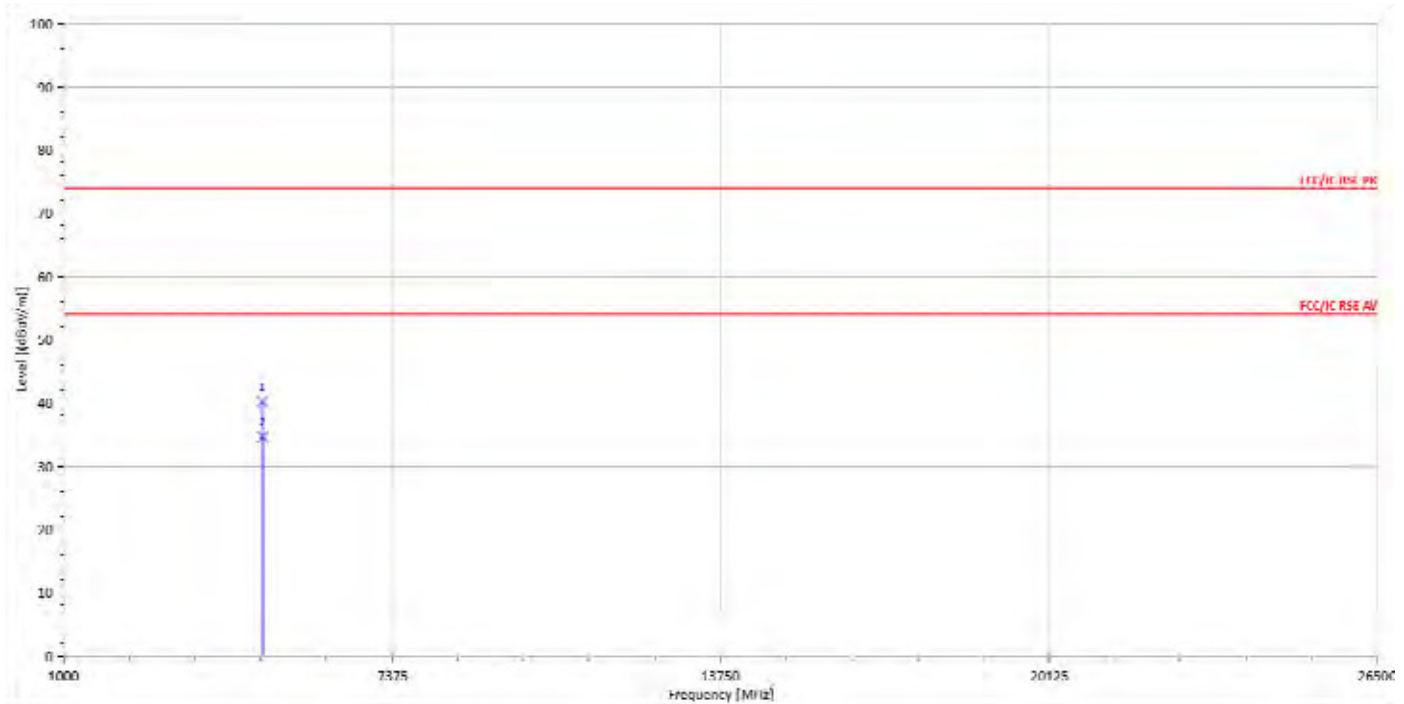
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Operation Mode : 802.11b Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4874.00	H	Peak	32.30	7.91	40.21	74	-33.79
4874.00	H	Average	26.72	7.91	34.63	54	-19.37

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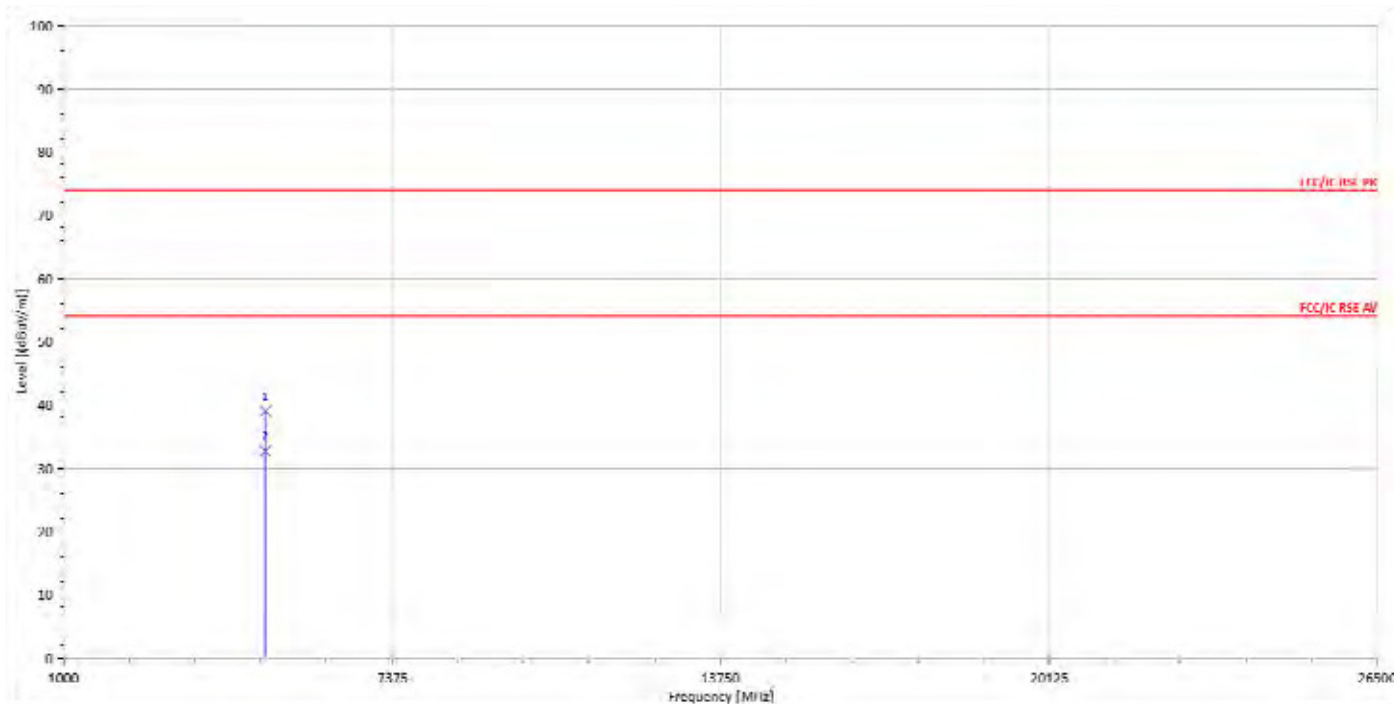
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Operation Mode : 802.11b Test Date : 2016/11/5
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	H	Peak	31.07	7.92	38.99	74	-35.01
4924.00	H	Average	24.82	7.92	32.74	54	-21.26

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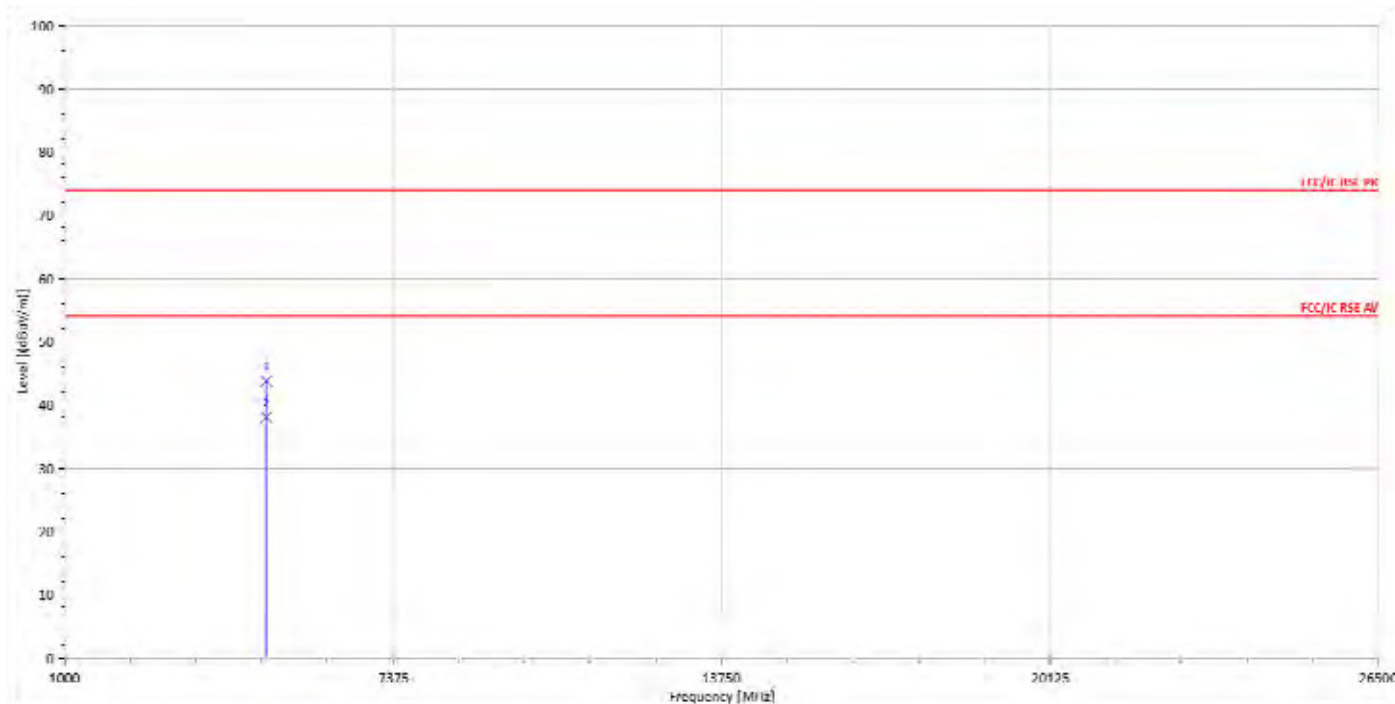
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Operation Mode : 802.11b Test Date : 2016/11/5
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4924.00	S	Peak	35.86	7.92	43.78	74	-30.22
4924.00	S	Average	30.10	7.92	38.02	54	-15.98

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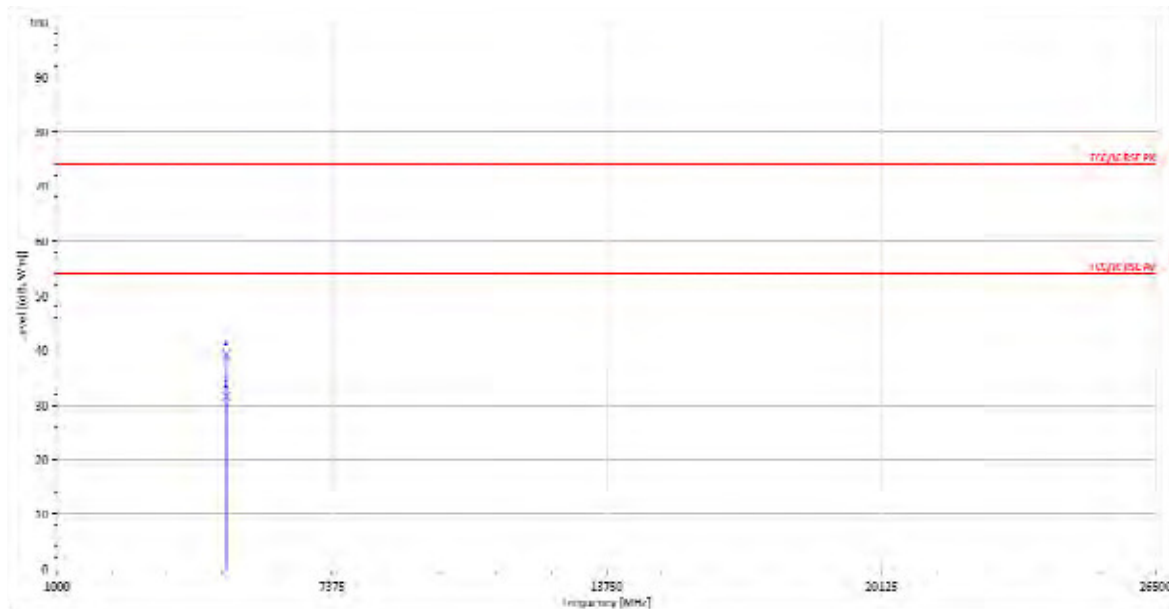
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	31.33	7.93	39.26	74.00	-34.74
4934.00	Average	H	23.67	7.93	31.60	54.00	-22.40

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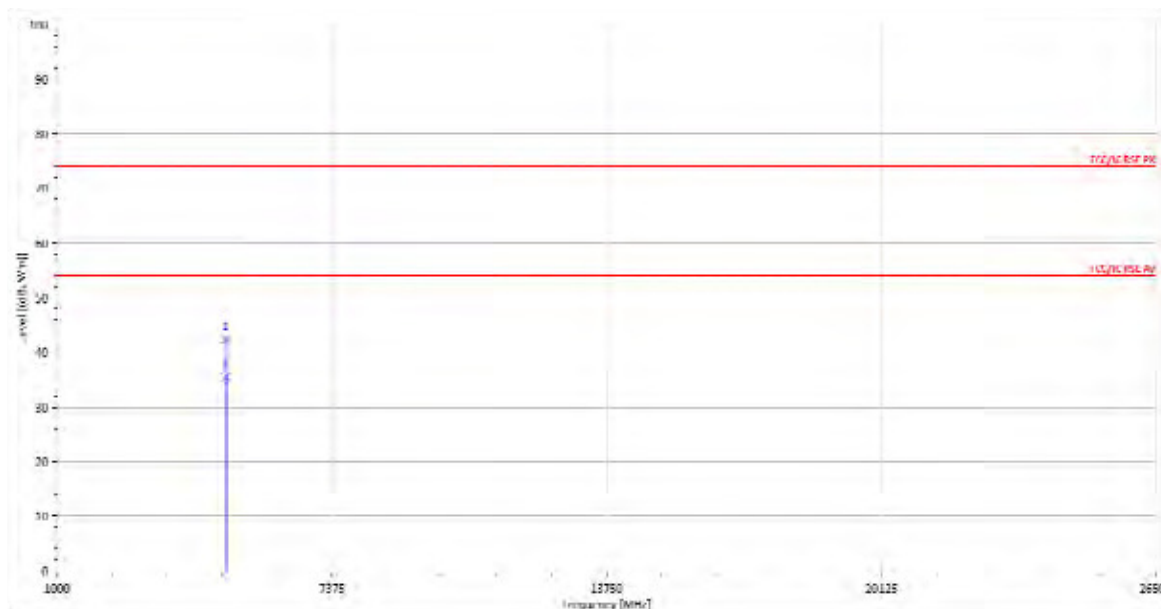
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	34.53	7.93	42.46	74.00	-31.54
4934.00	Average	H	27.63	7.93	35.56	54.00	-18.44

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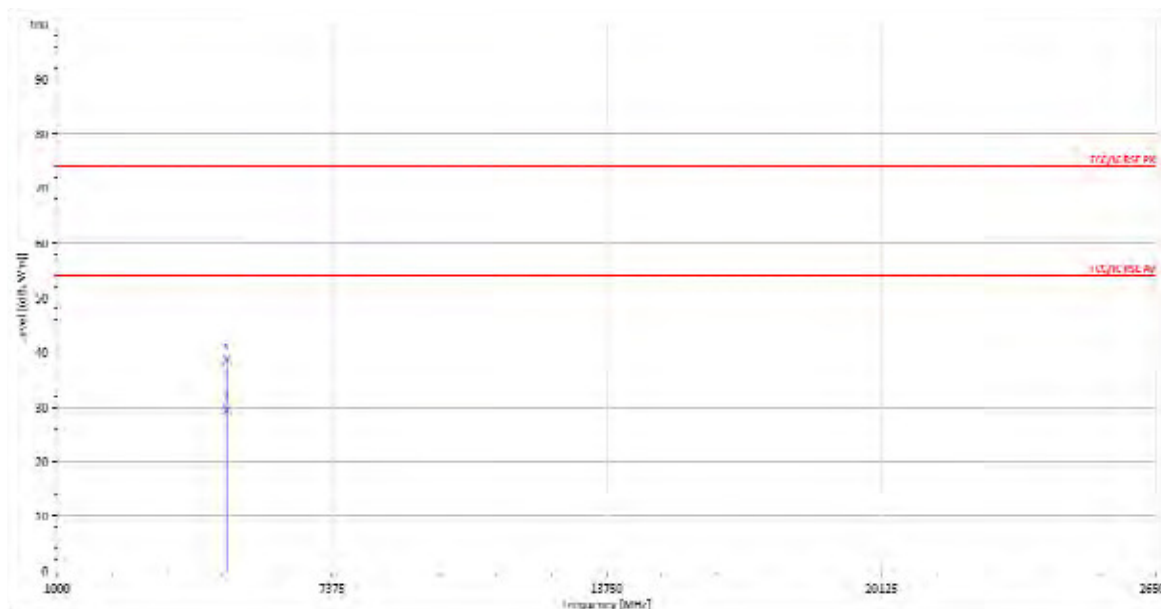
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	30.91	7.83	38.74	74.00	-35.26
4944.00	Average	H	21.65	7.83	29.48	54.00	-24.52

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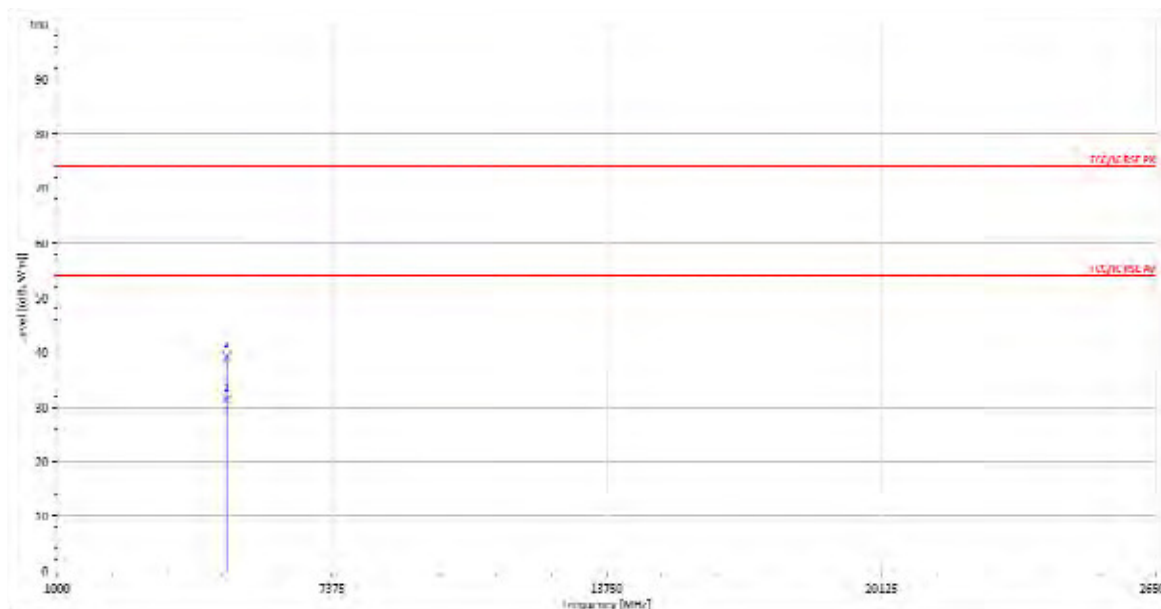
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Operation Mode : 802.11b Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	31.34	7.83	39.18	74.00	-34.82
4944.00	Average	H	23.48	7.83	31.31	54.00	-22.69

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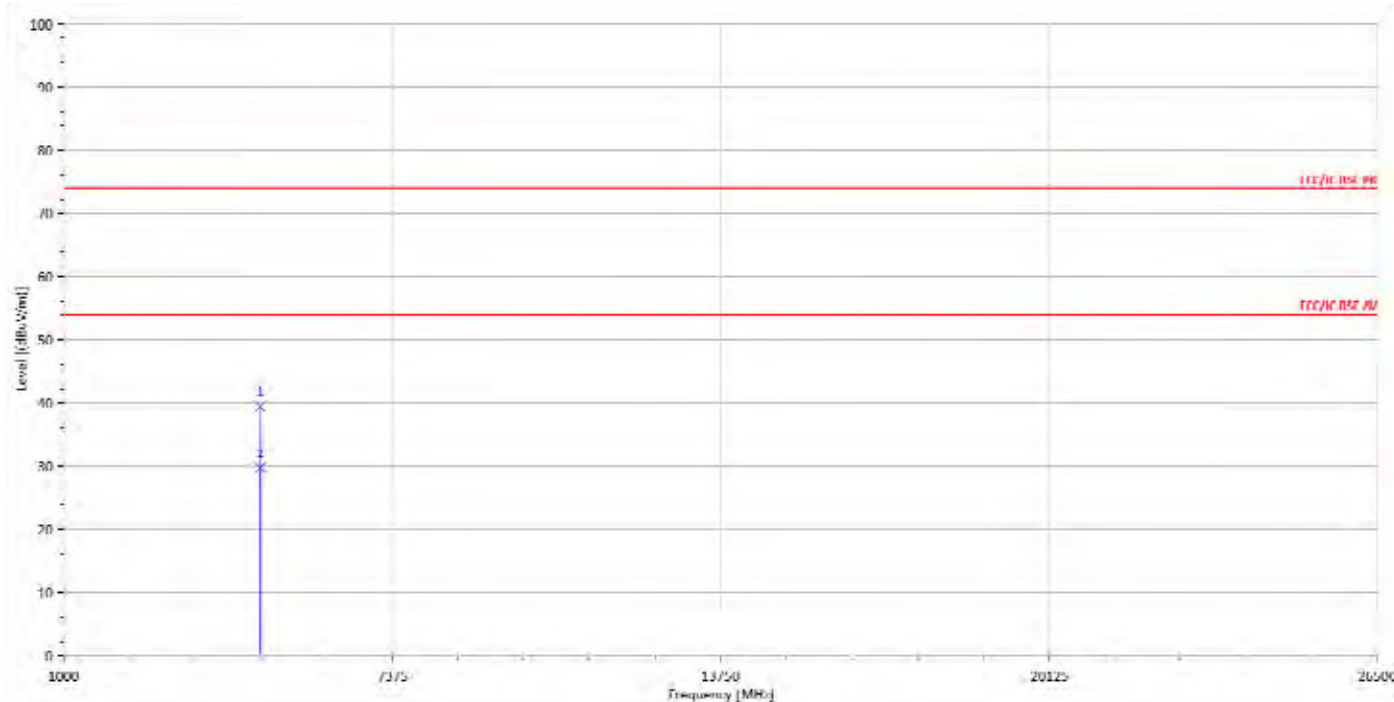
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode : 802.11g Test Date : 2016/11/5
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	31.89	7.58	39.47	74	-34.53
4824.00	H	Average	22.12	7.58	29.70	54	-24.30

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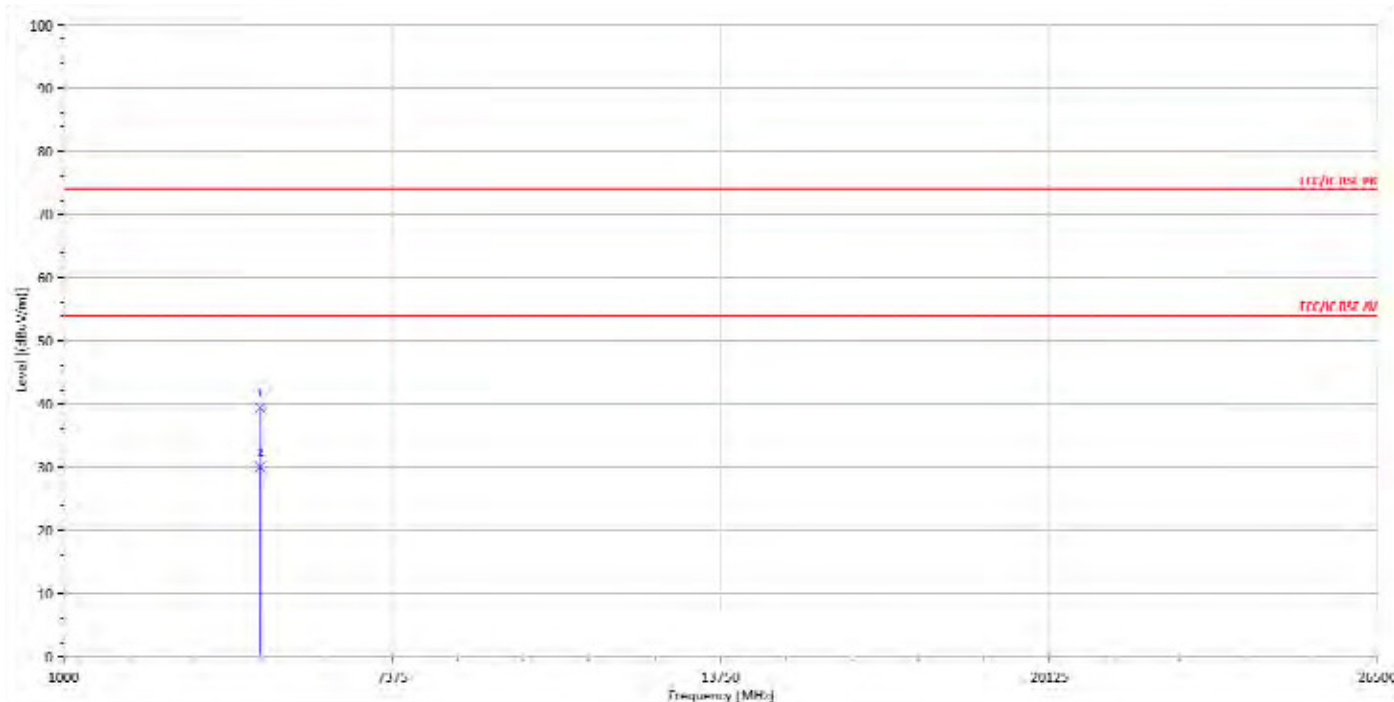
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Operation Mode : 802.11g Test Date : 2016/11/5
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	31.85	7.58	39.42	74	-34.58
4824.00	H	Average	22.39	7.58	29.97	54	-24.03

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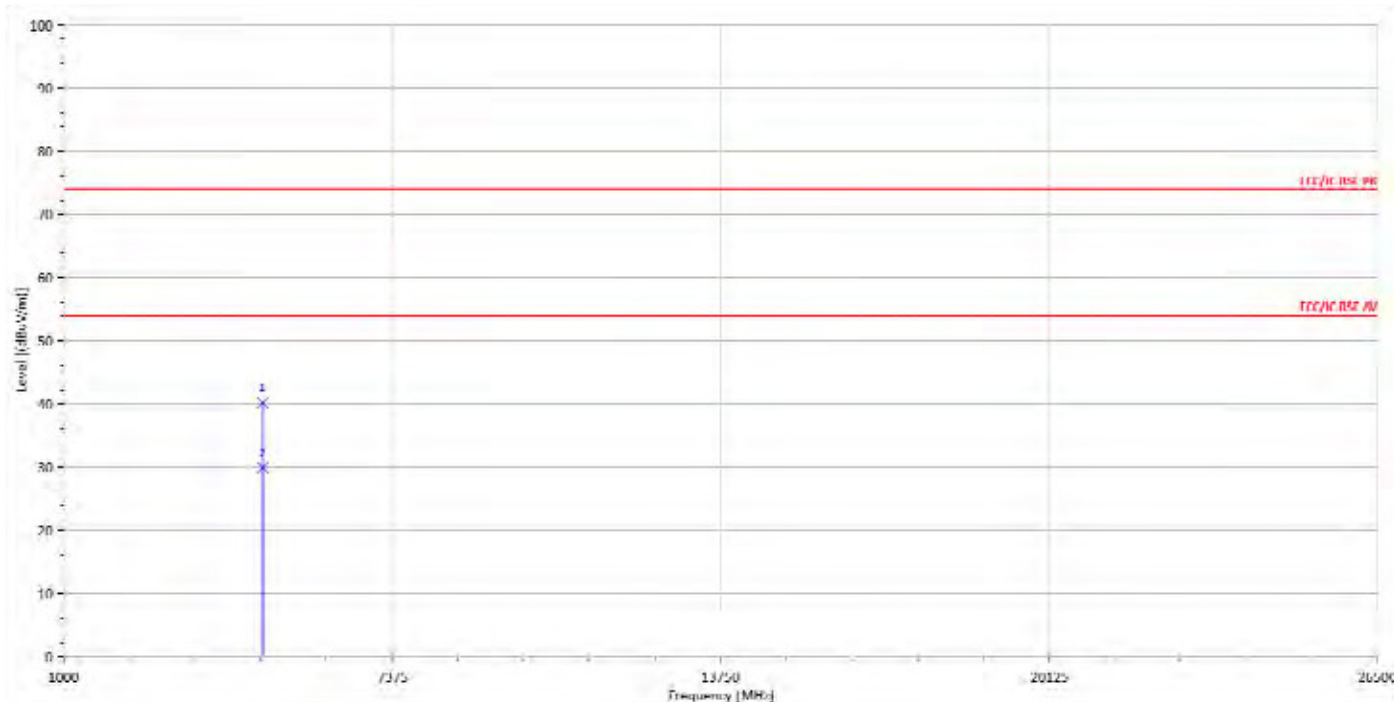
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Operation Mode : 802.11g Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	32.32	7.91	40.23	74	-33.77
4874.00	H	Average	21.96	7.91	29.87	54	-24.13

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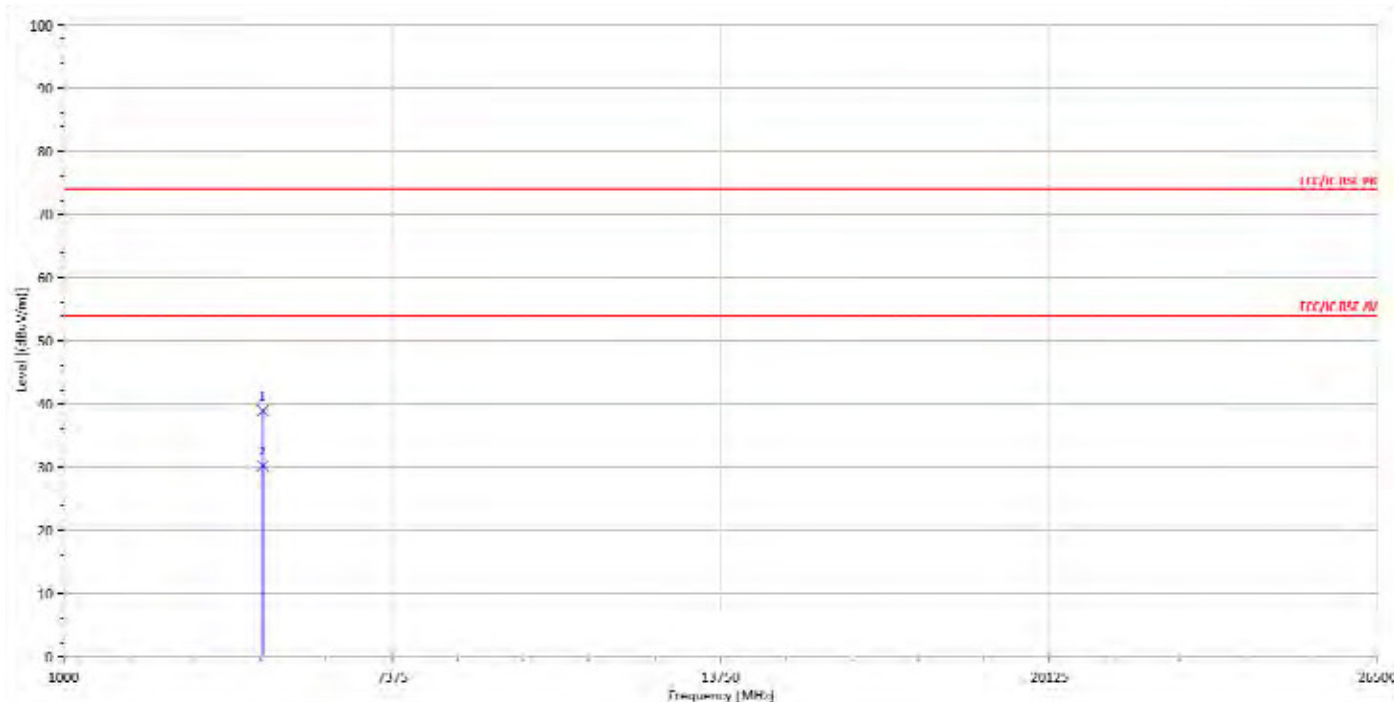
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Operation Mode : 802.11g Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	S	Peak	31.02	7.91	38.93	74	-35.07
4874.00	S	Average	22.25	7.91	30.16	54	-23.84

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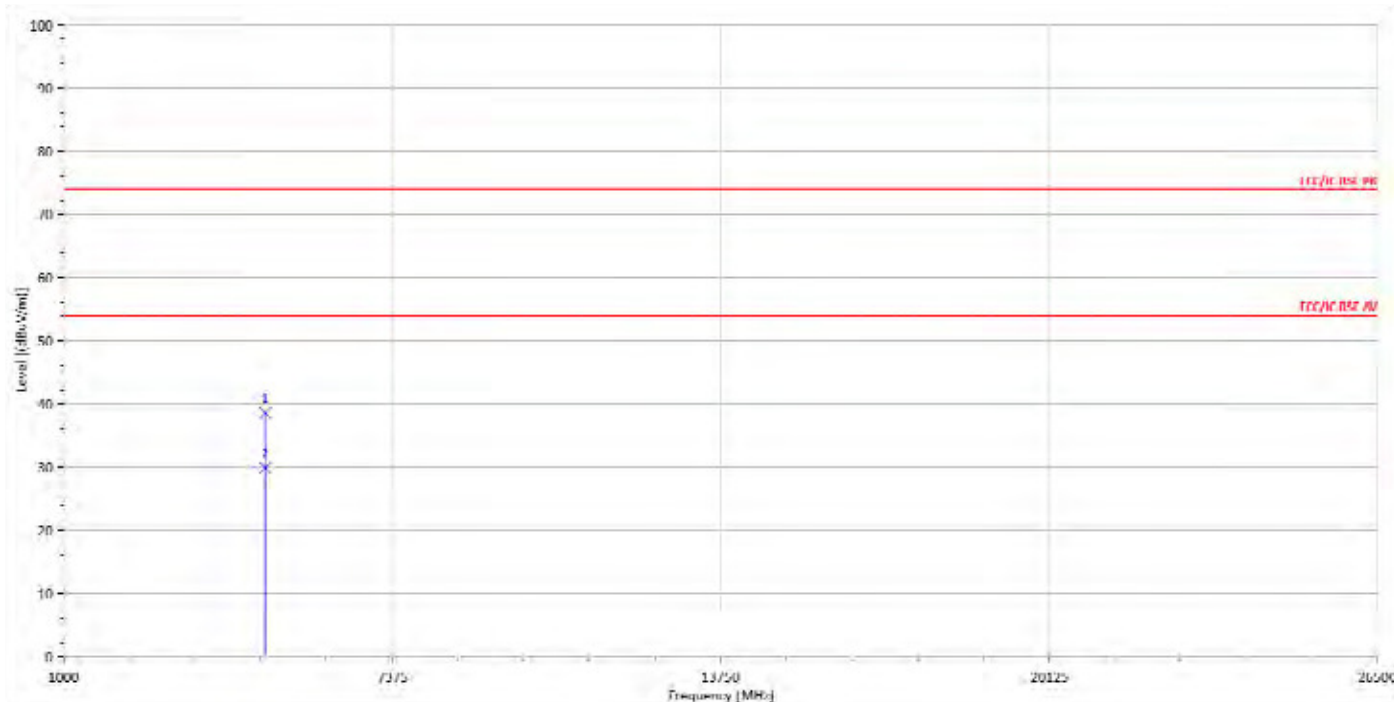
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Operation Mode : 802.11g Test Date : 2016/11/5
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	30.69	7.92	38.61	74	-35.39
4924.00	H	Average	21.89	7.92	29.81	54	-24.19

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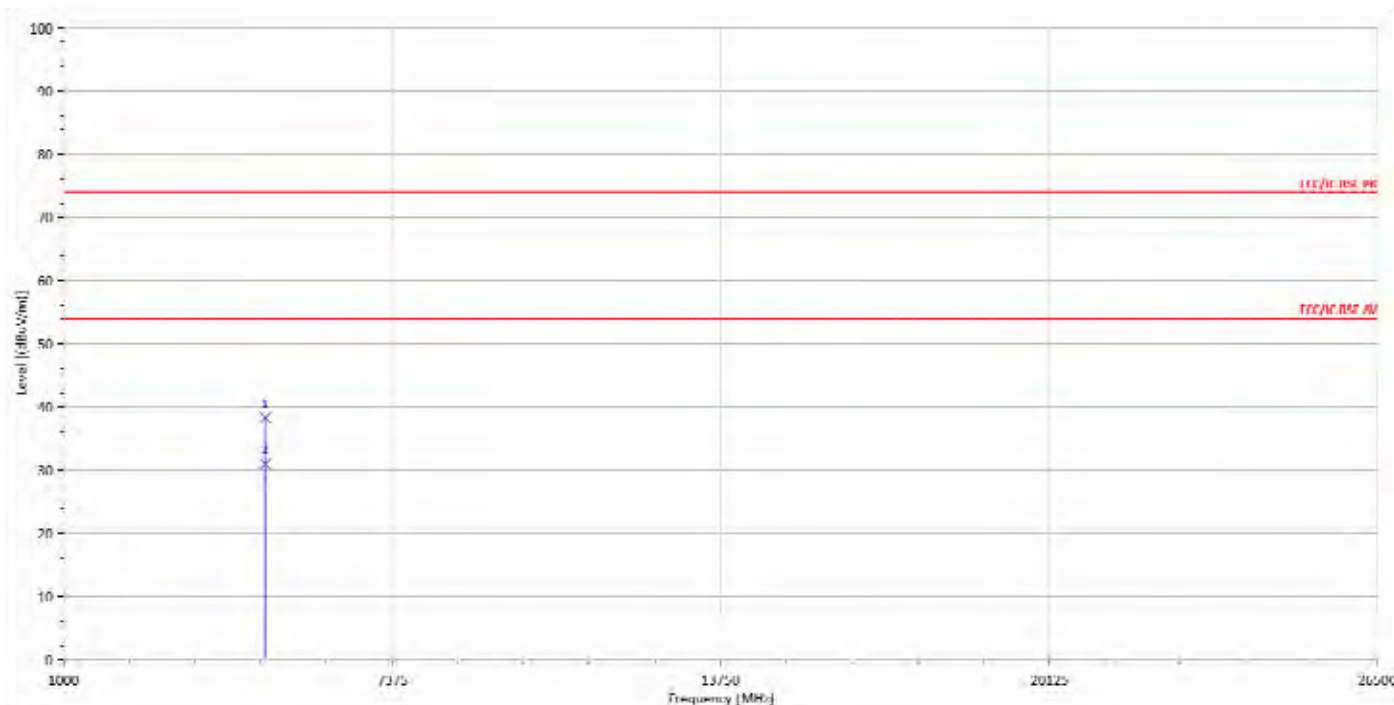
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Operation Mode :	802.11g	Test Date :	2016/11/5
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	30.39	7.92	38.31	74	-35.69
4924.00	H	Average	22.98	7.92	30.90	54	-23.10

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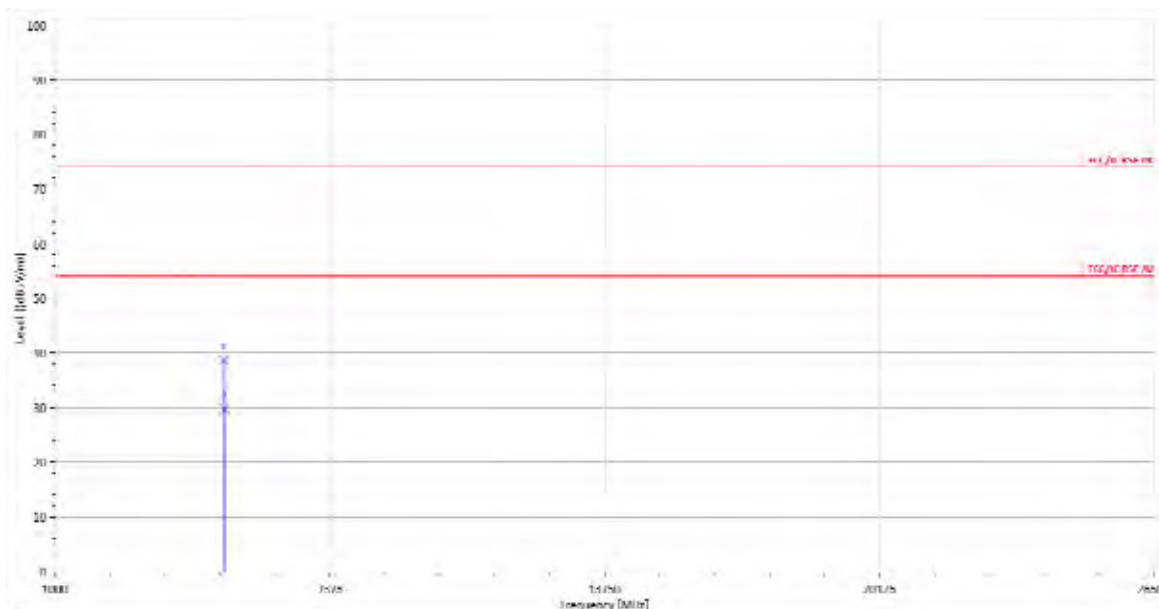
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	30.81	7.93	38.75	74.00	-35.25
4934.00	Average	H	21.83	7.93	29.76	54.00	-24.24

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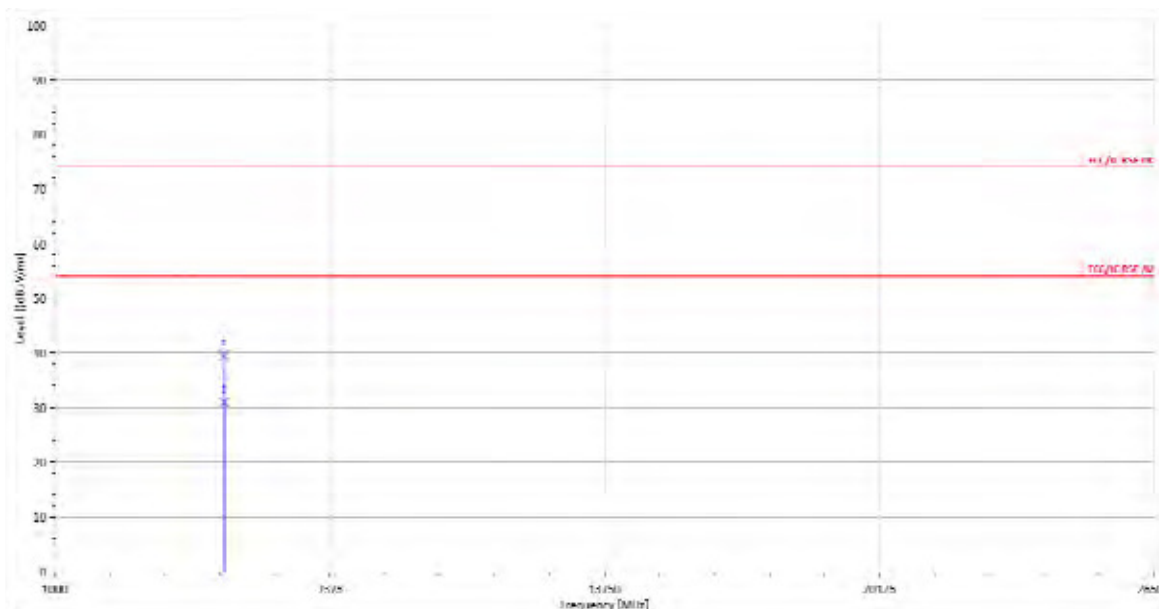
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	31.62	7.93	39.55	74.00	-34.45
4934.00	Average	H	23.02	7.93	30.95	54.00	-23.05

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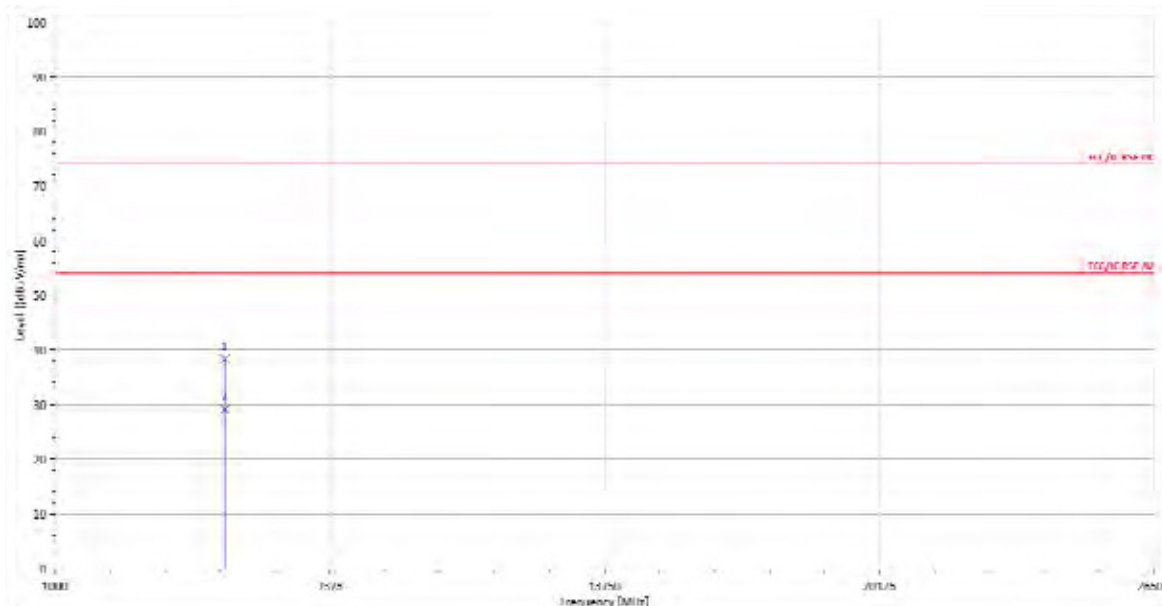
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	30.51	7.83	38.35	74.00	-35.65
4944.00	Average	H	21.33	7.83	29.16	54.00	-24.84

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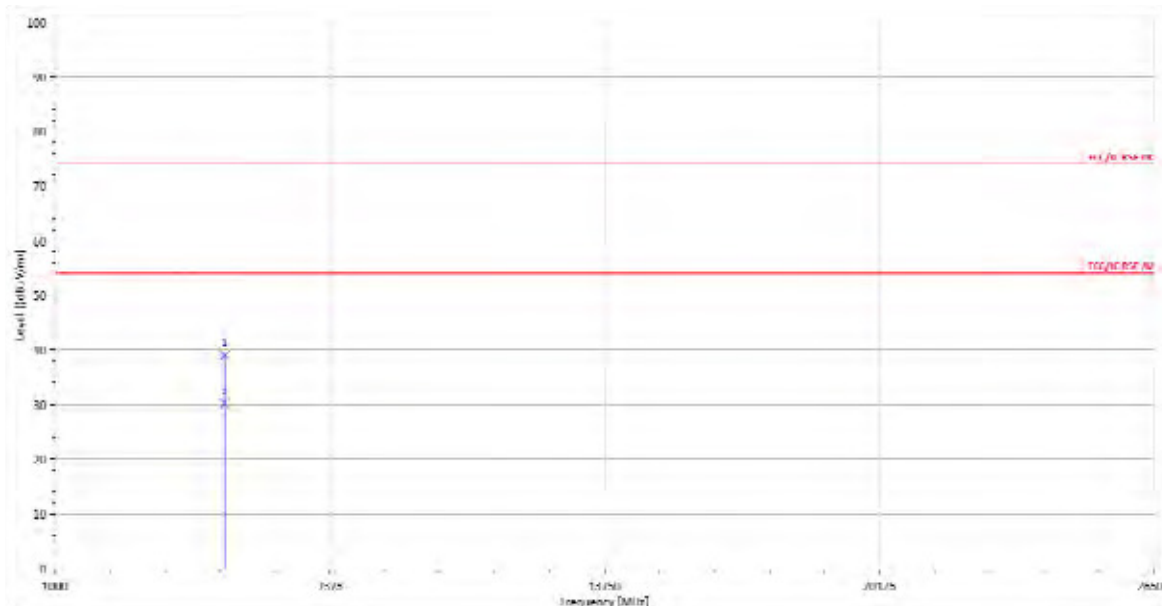
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Operation Mode : 802.11g Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	31.20	7.83	39.04	74.00	-34.96
4944.00	Average	H	22.39	7.83	30.22	54.00	-23.78

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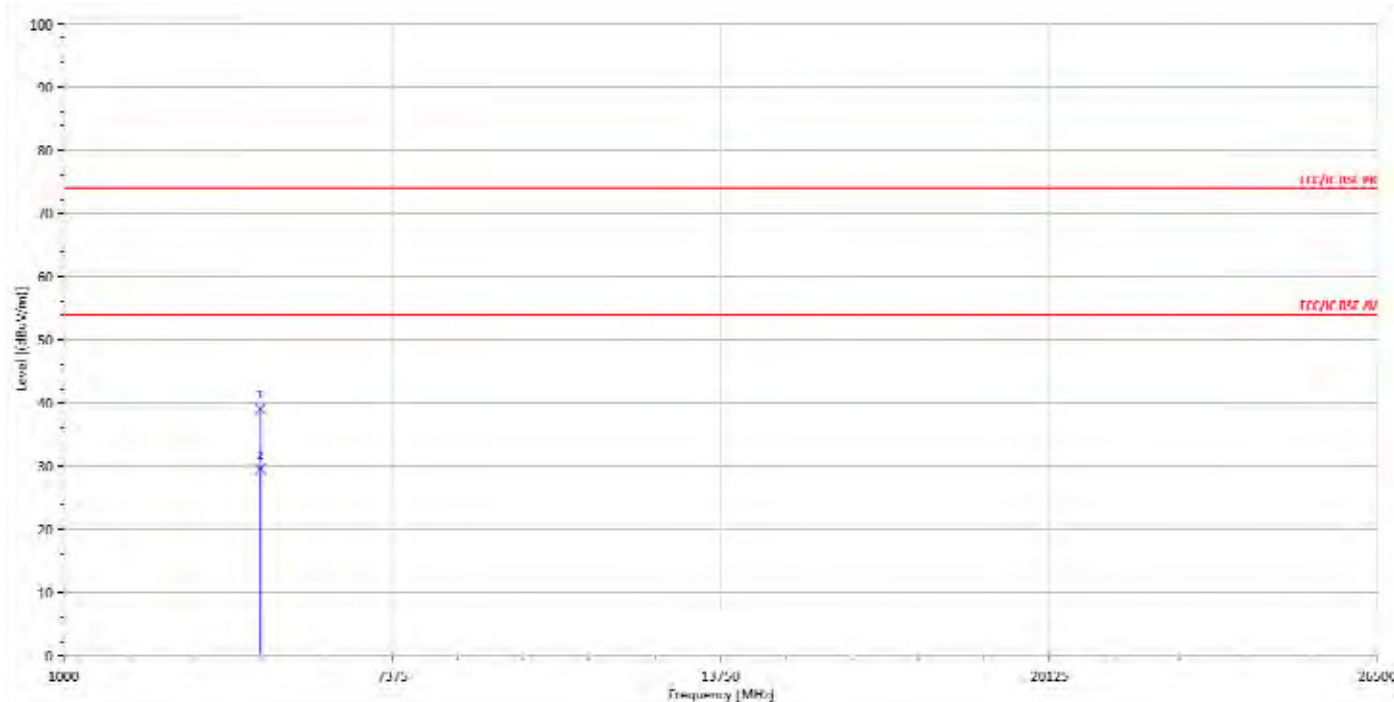
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/11/5
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	31.54	7.58	39.11	74	-34.89
4824.00	H	Average	21.89	7.58	29.47	54	-24.53

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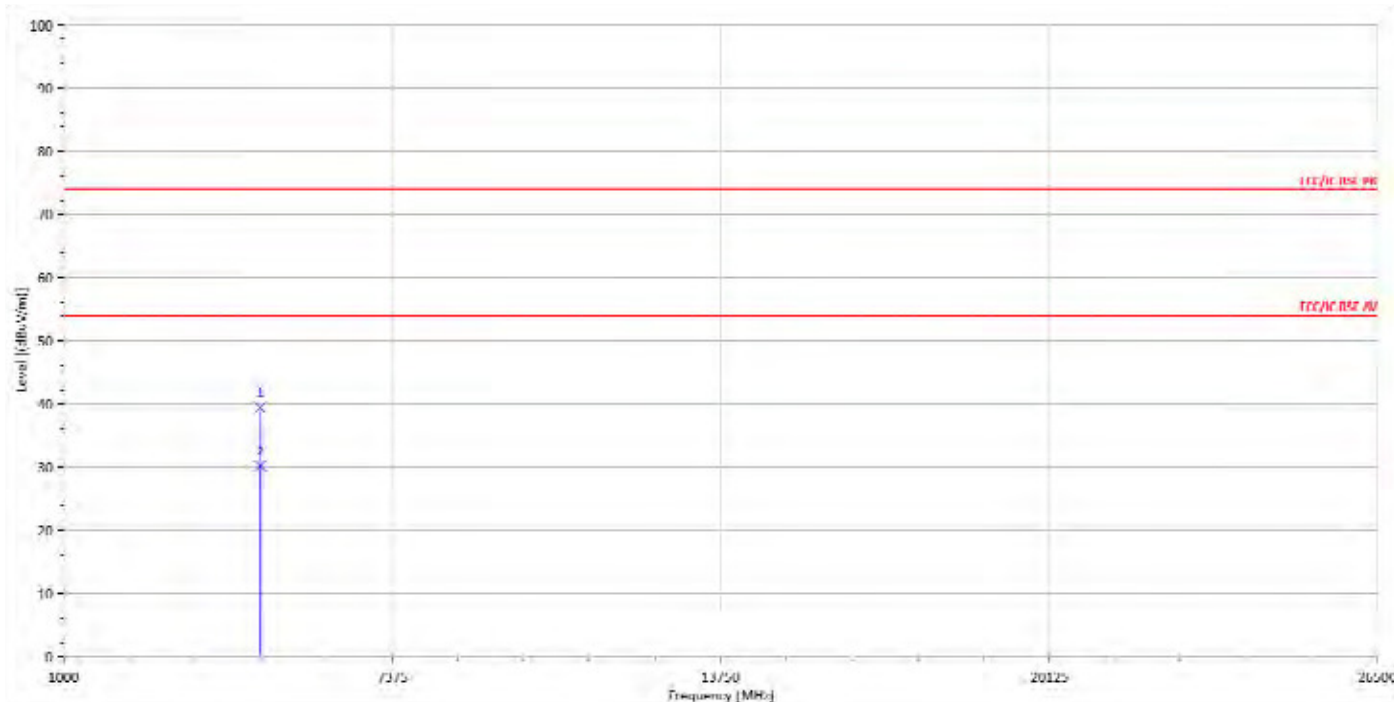
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Operation Mode : 802.11n20 Test Date : 2016/11/5
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	31.89	7.58	39.47	74	-34.53
4824.00	H	Average	22.52	7.58	30.10	54	-23.90

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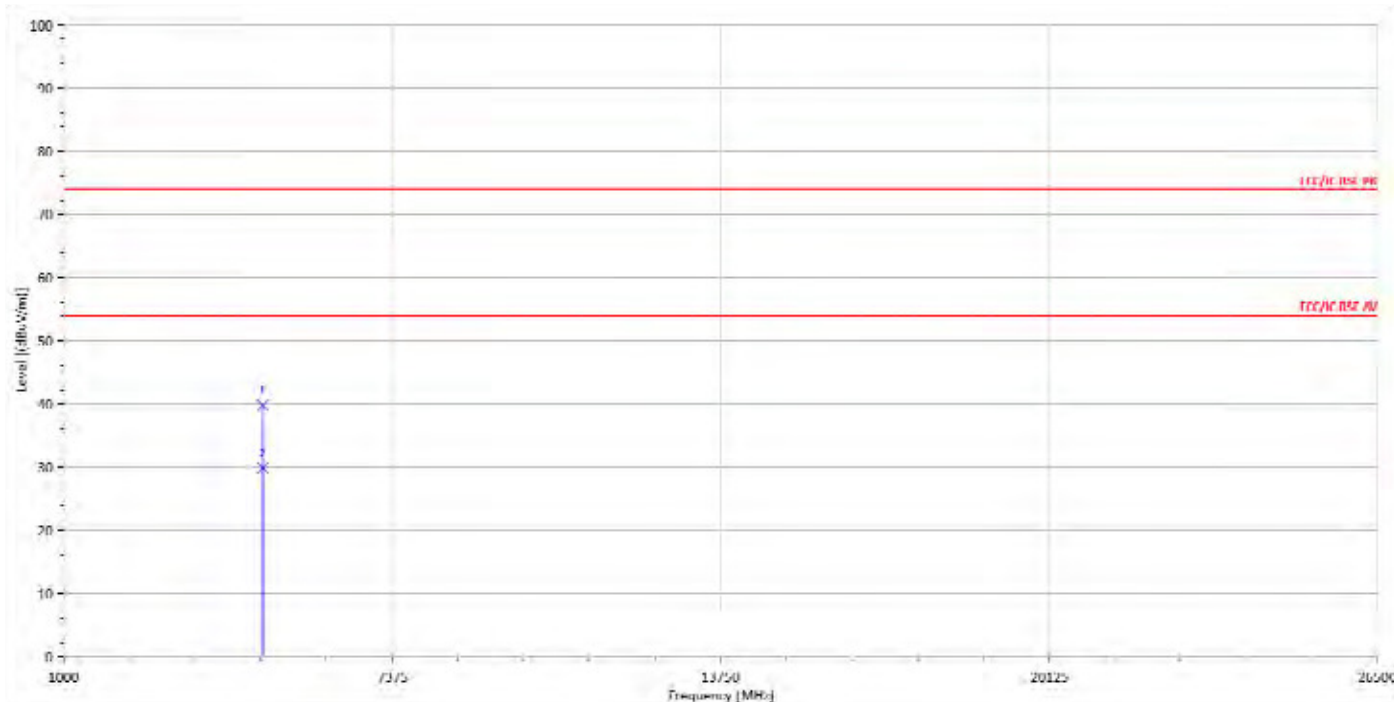
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Operation Mode : 802.11n20 Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	31.89	7.91	39.80	74	-34.20
4874.00	H	Average	21.92	7.91	29.83	54	-24.17

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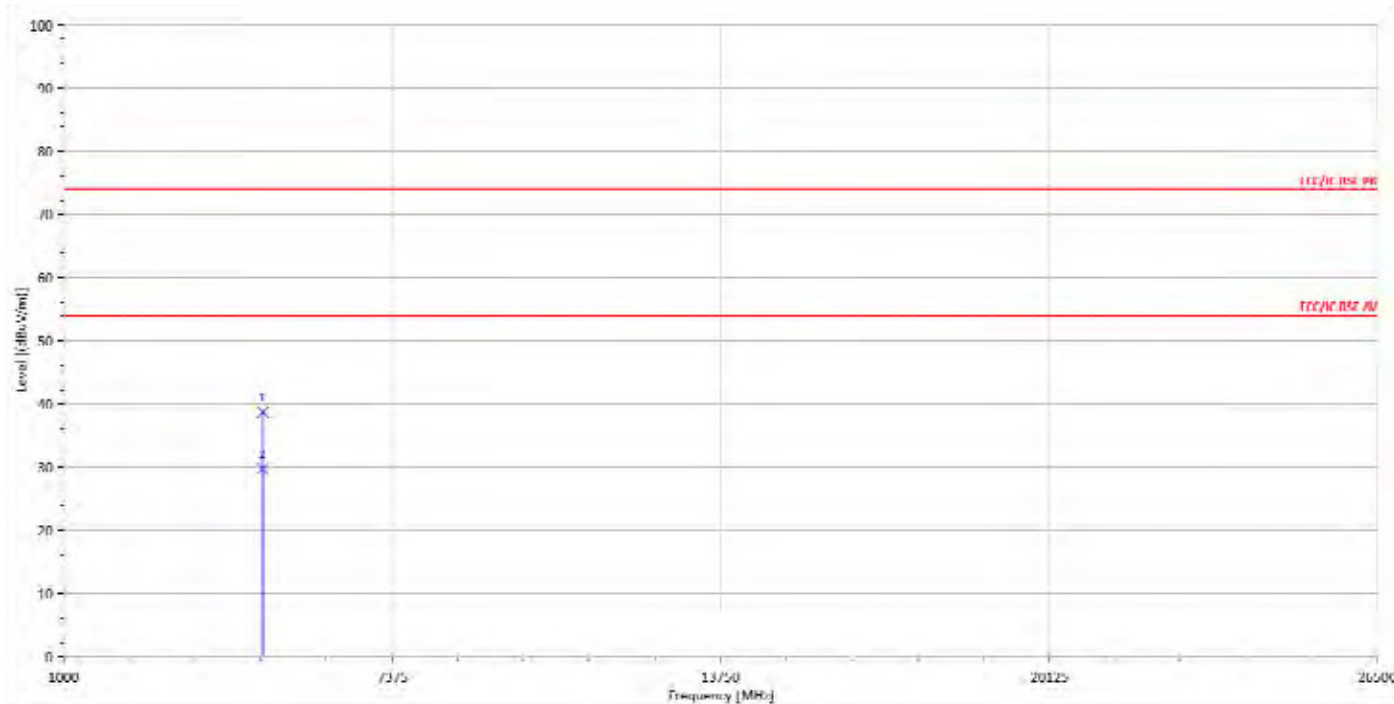
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Operation Mode : 802.11n20 Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	30.83	7.91	38.75	74	-35.25
4874.00	H	Average	21.77	7.91	29.68	54	-24.32

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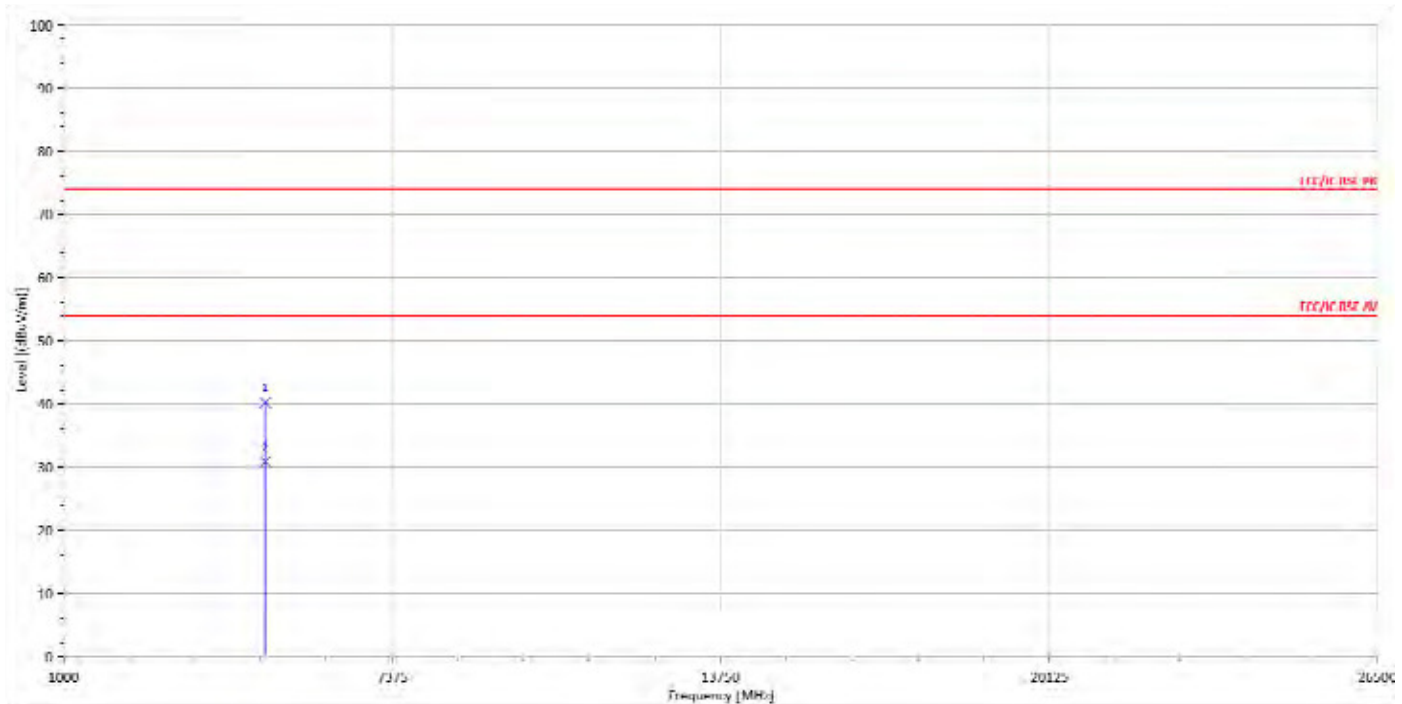
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Operation Mode : 802.11n20 Test Date : 2016/11/5
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	32.35	7.92	40.27	74	-33.73
4924.00	H	Average	22.91	7.92	30.83	54	-23.17

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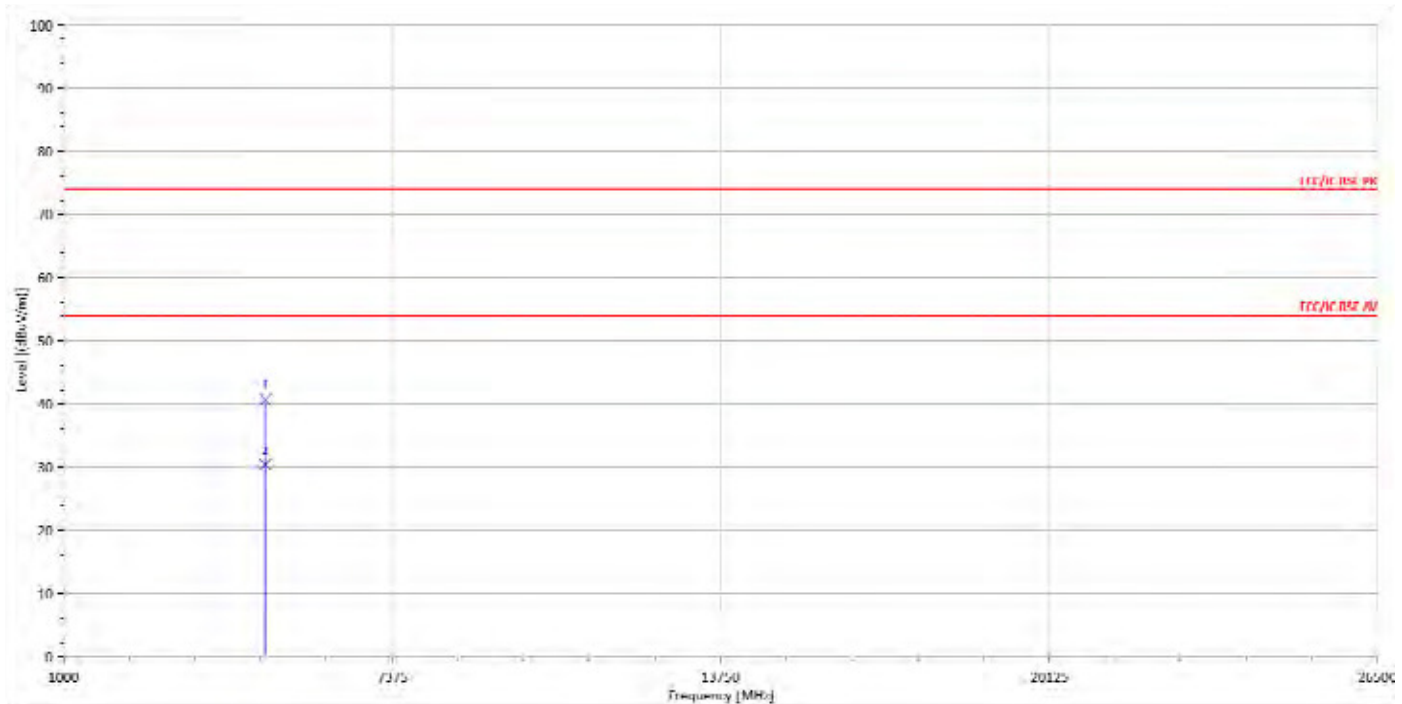
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Operation Mode : 802.11n20 Test Date : 2016/11/5
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	H	Peak	32.76	7.92	40.68	74	-33.32
4924.00	H	Average	22.42	7.92	30.34	54	-23.66

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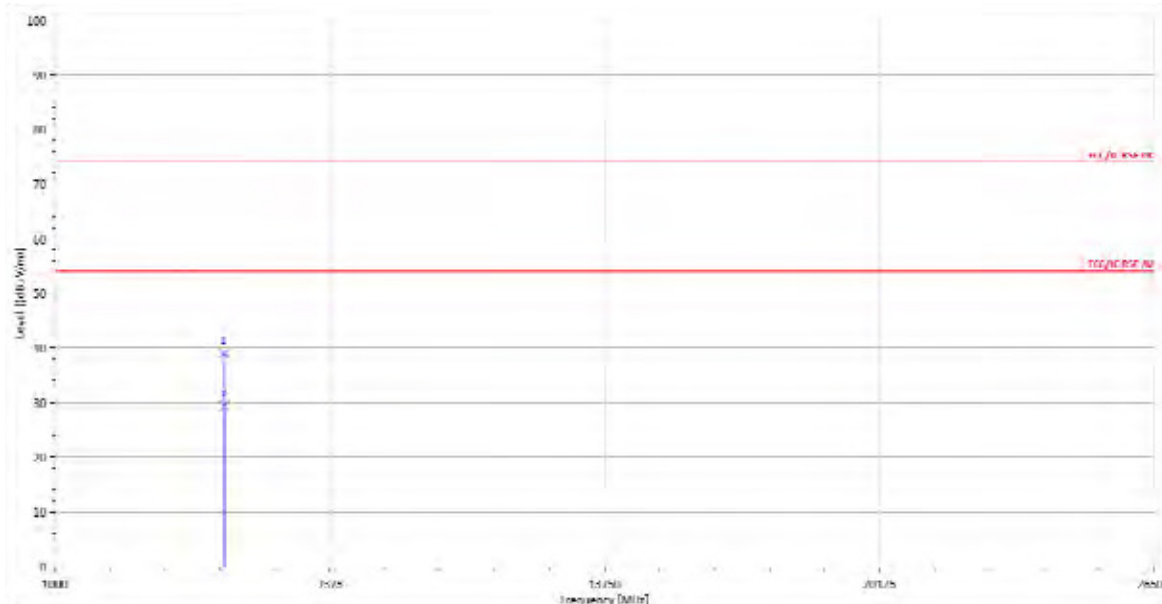
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	31.07	7.93	39.00	74.00	-35.00
4934.00	Average	H	21.43	7.93	29.36	54.00	-24.64

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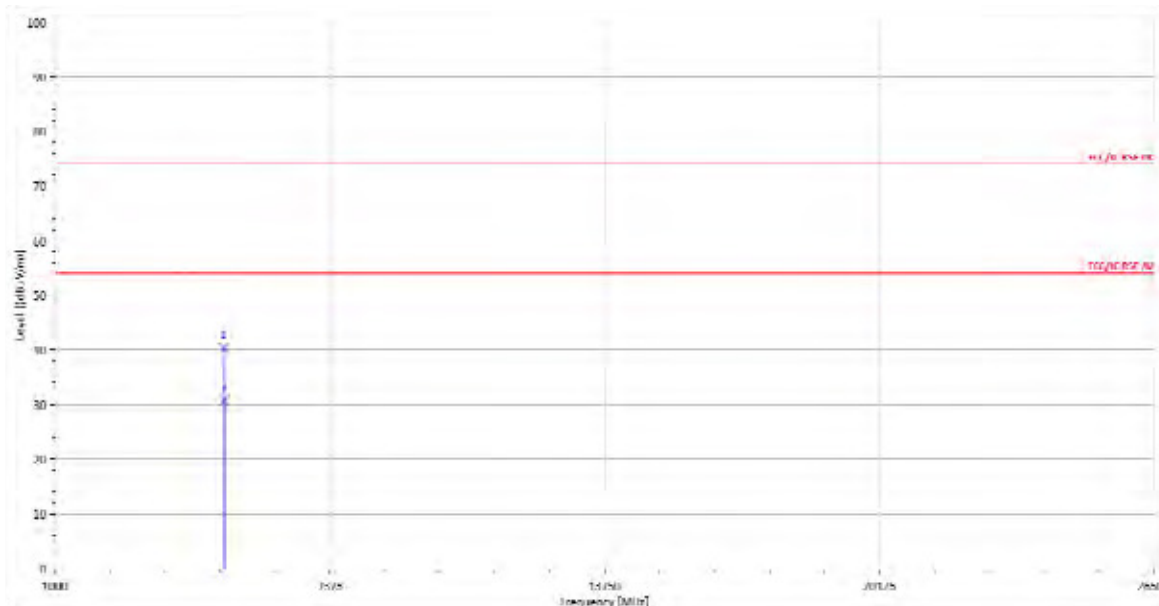
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2467 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4934.00	Peak	H	32.44	7.93	40.37	74.00	-33.63
4934.00	Average	H	22.79	7.93	30.72	54.00	-23.28

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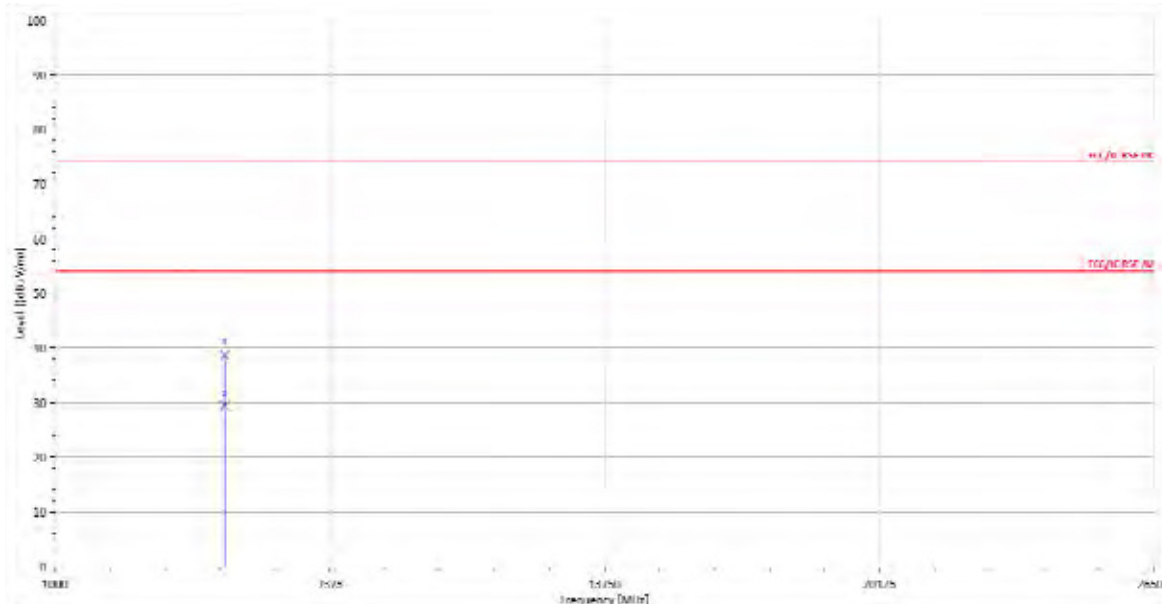
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	30.89	7.83	38.72	74.00	-35.28
4944.00	Average	H	21.56	7.83	29.39	54.00	-24.61

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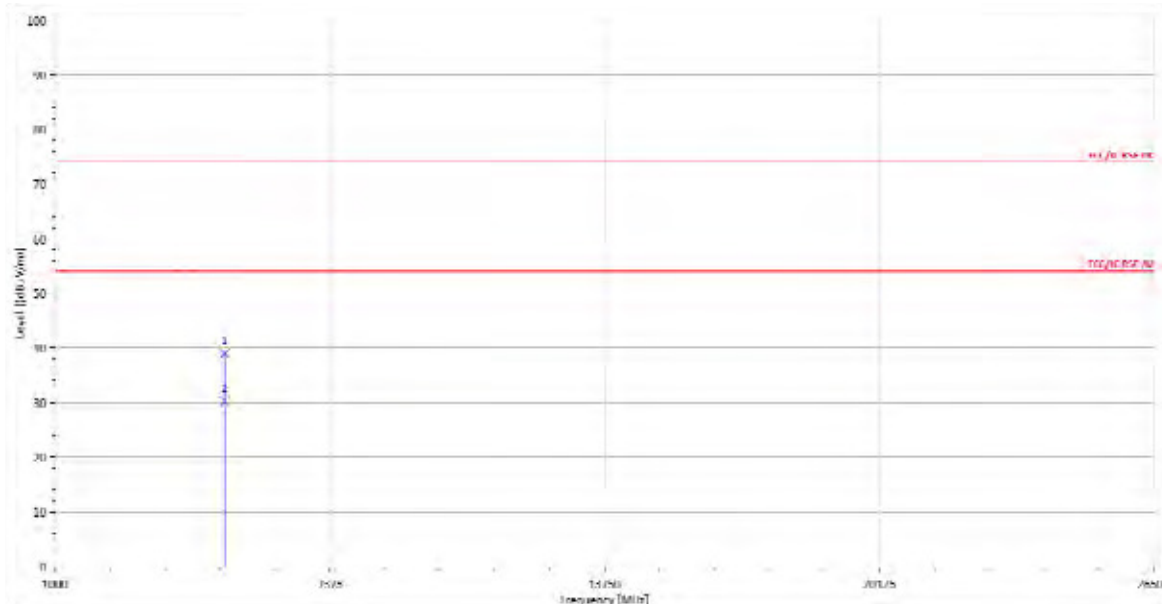
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Operation Mode : 802.11n20 Test Date : 2016/11/3
Fundamental Frequency : 2472 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4944.00	Peak	H	31.19	7.83	39.02	74.00	-34.98
4944.00	Average	H	22.43	7.83	30.26	54.00	-23.74

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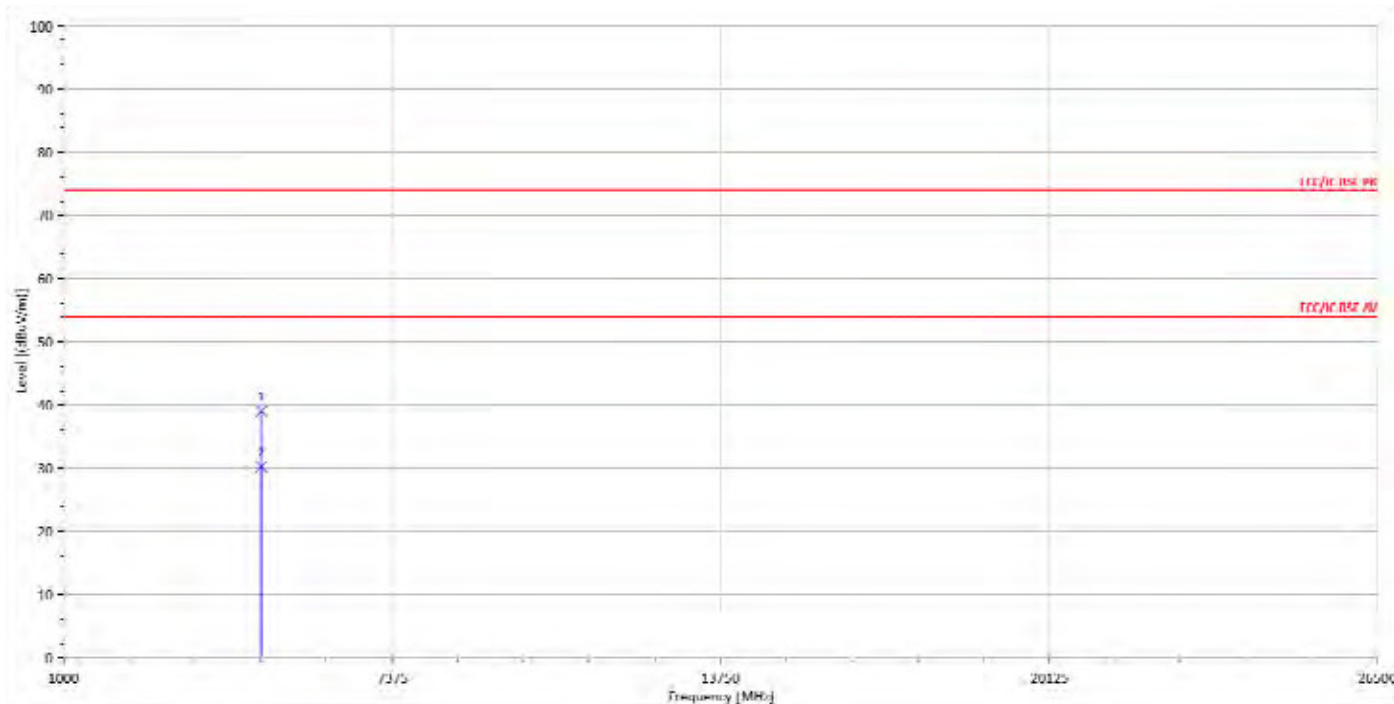
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2016/11/5
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	H	Peak	31.54	7.55	39.09	74	-34.91
4844.00	H	Average	22.62	7.55	30.17	54	-23.83

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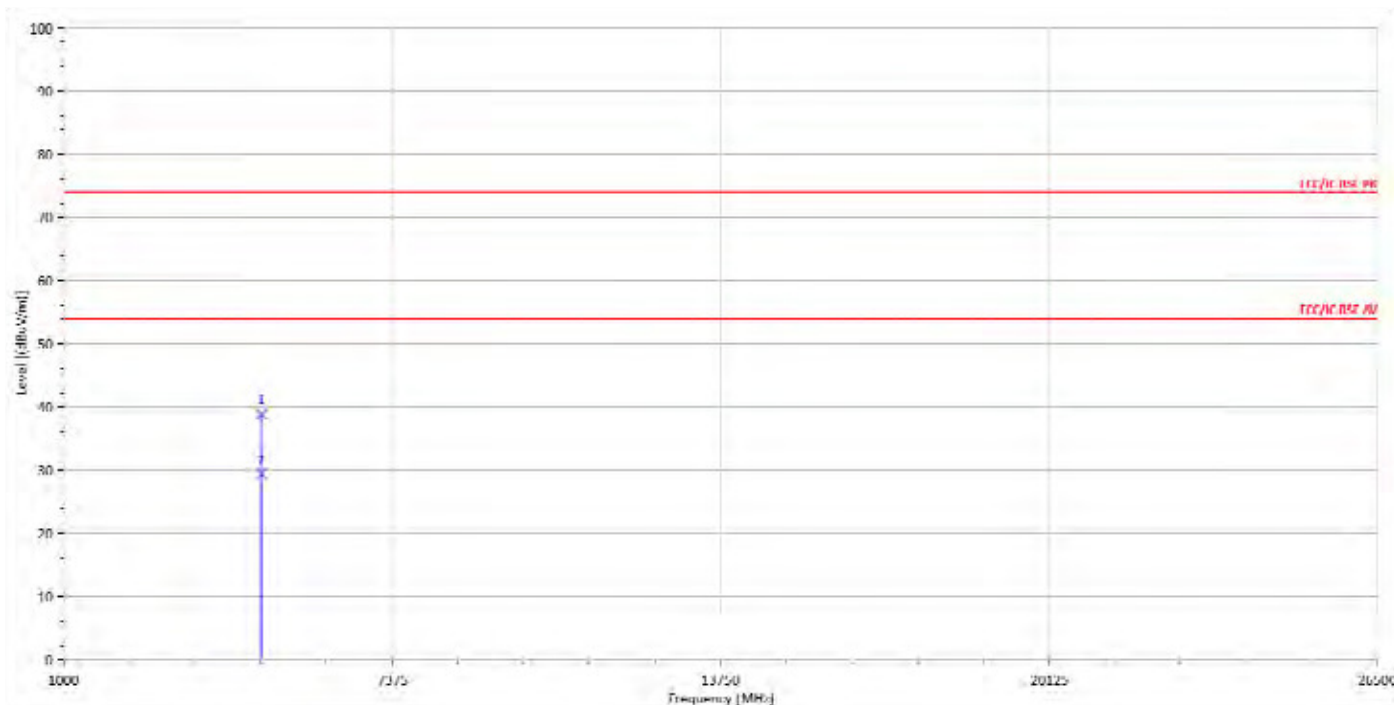
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Operation Mode : 802.11n40 Test Date : 2016/11/5
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	H	Peak	31.31	7.55	38.86	74	-35.14
4844.00	H	Average	21.77	7.55	29.32	54	-24.68

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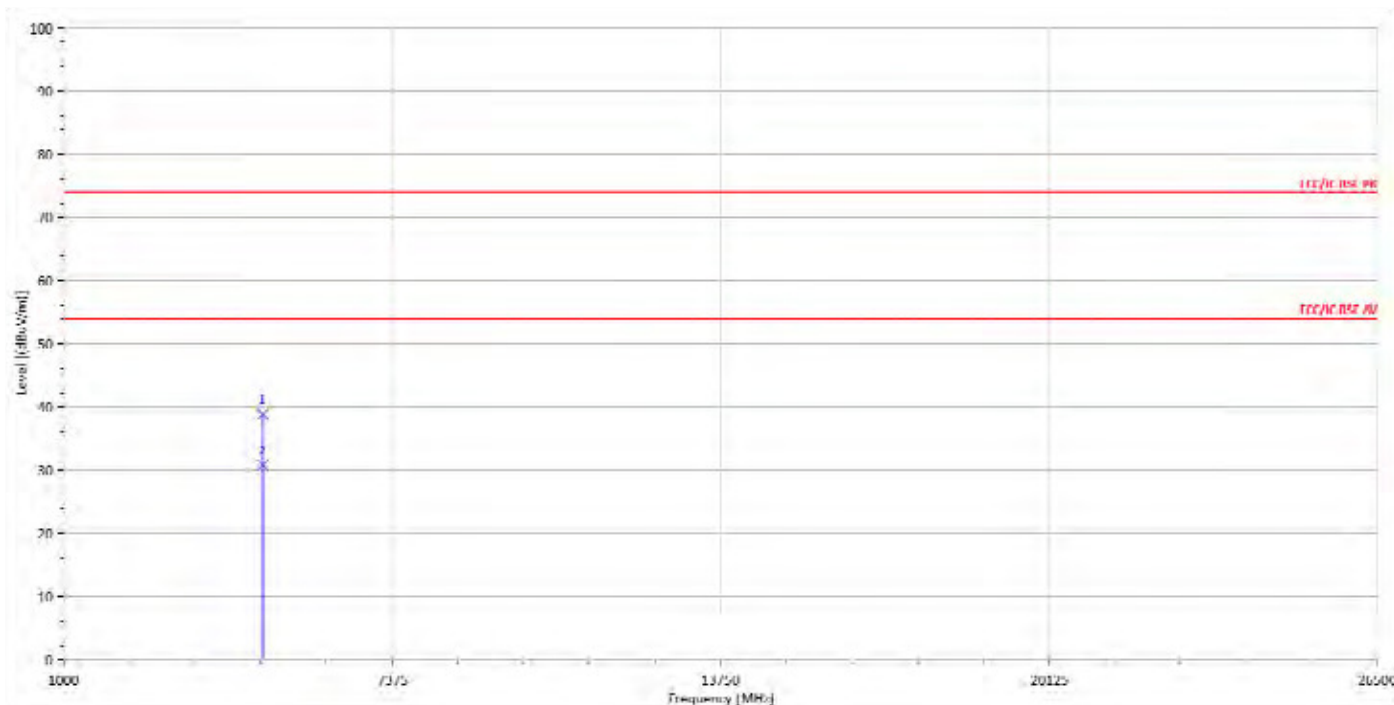
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Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	30.96	7.91	38.87	74	-35.13
4874.00	H	Average	22.88	7.91	30.79	54	-23.21

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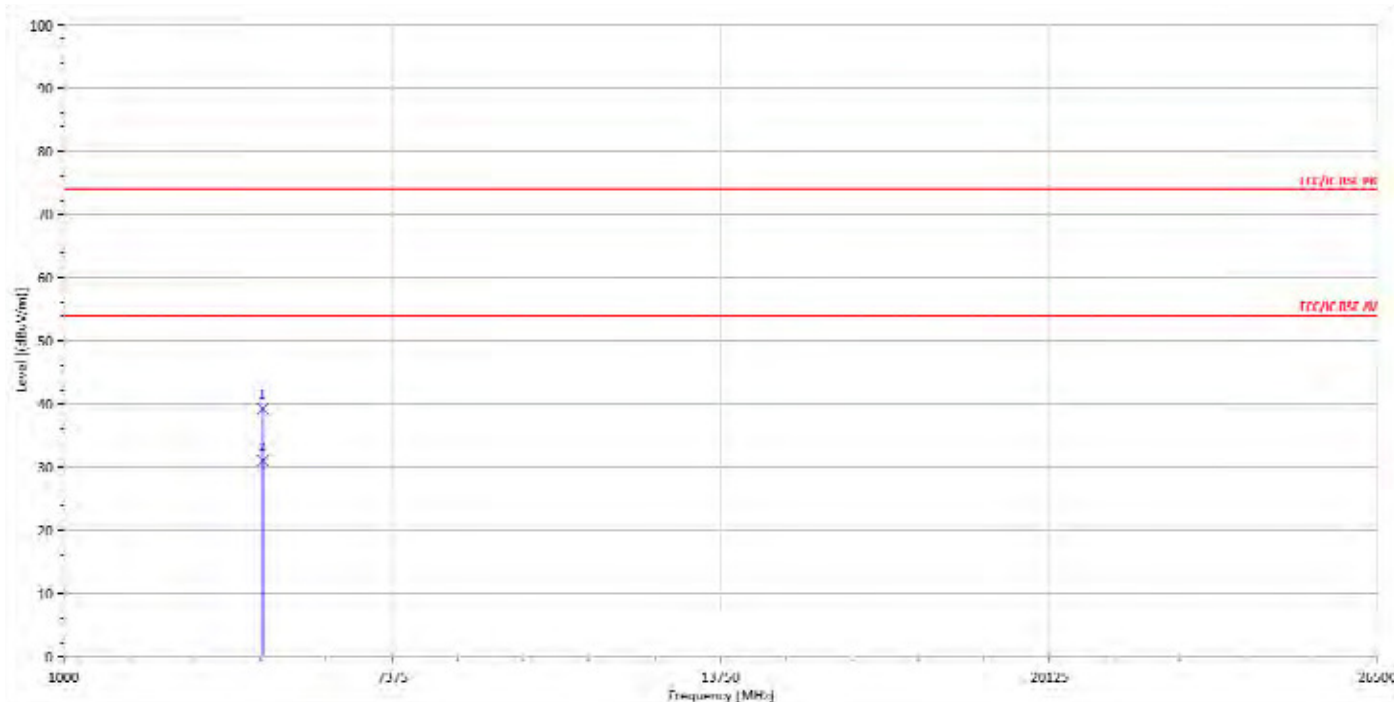
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Operation Mode : 802.11n40 Test Date : 2016/11/5
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	31.36	7.91	39.28	74	-34.72
4874.00	H	Average	23.06	7.91	30.97	54	-23.03

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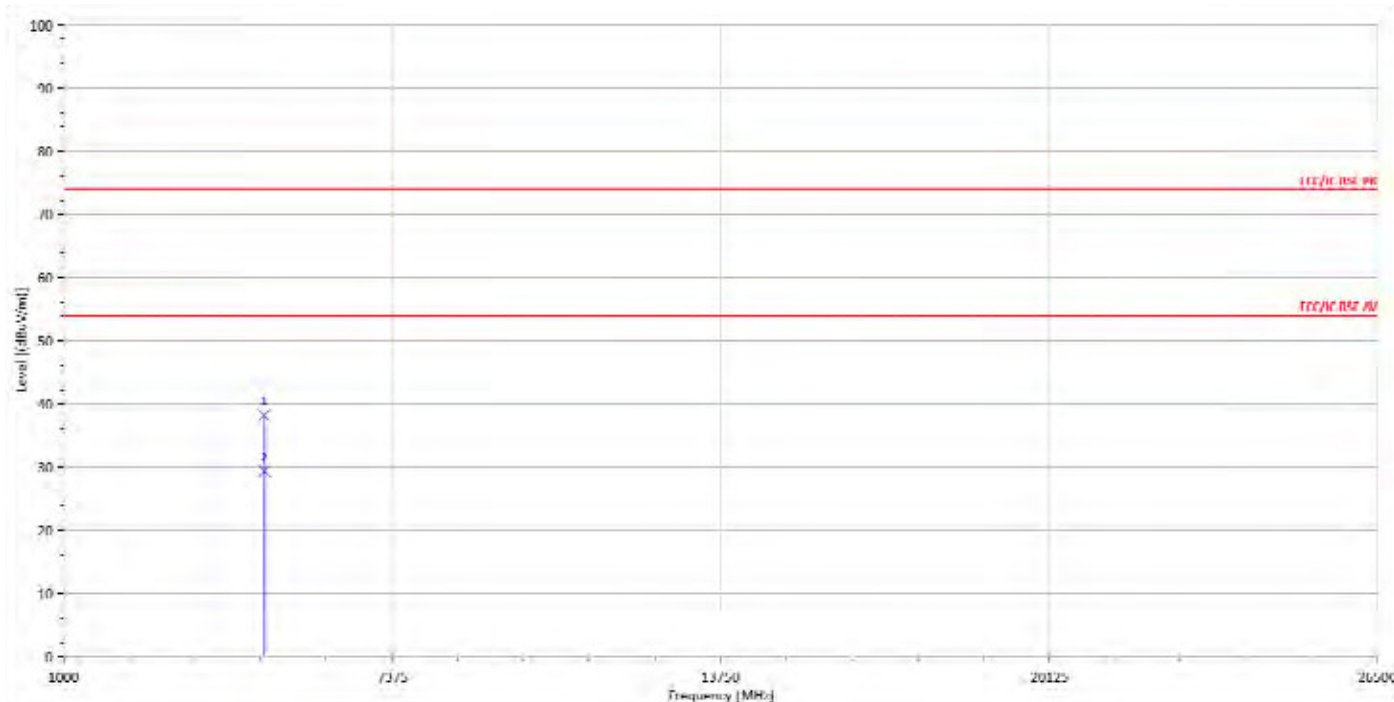
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Operation Mode : 802.11n40 Test Date : 2016/11/5
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	30.78	7.44	38.23	74	-35.77
4904.00	H	Average	21.85	7.44	29.29	54	-24.71

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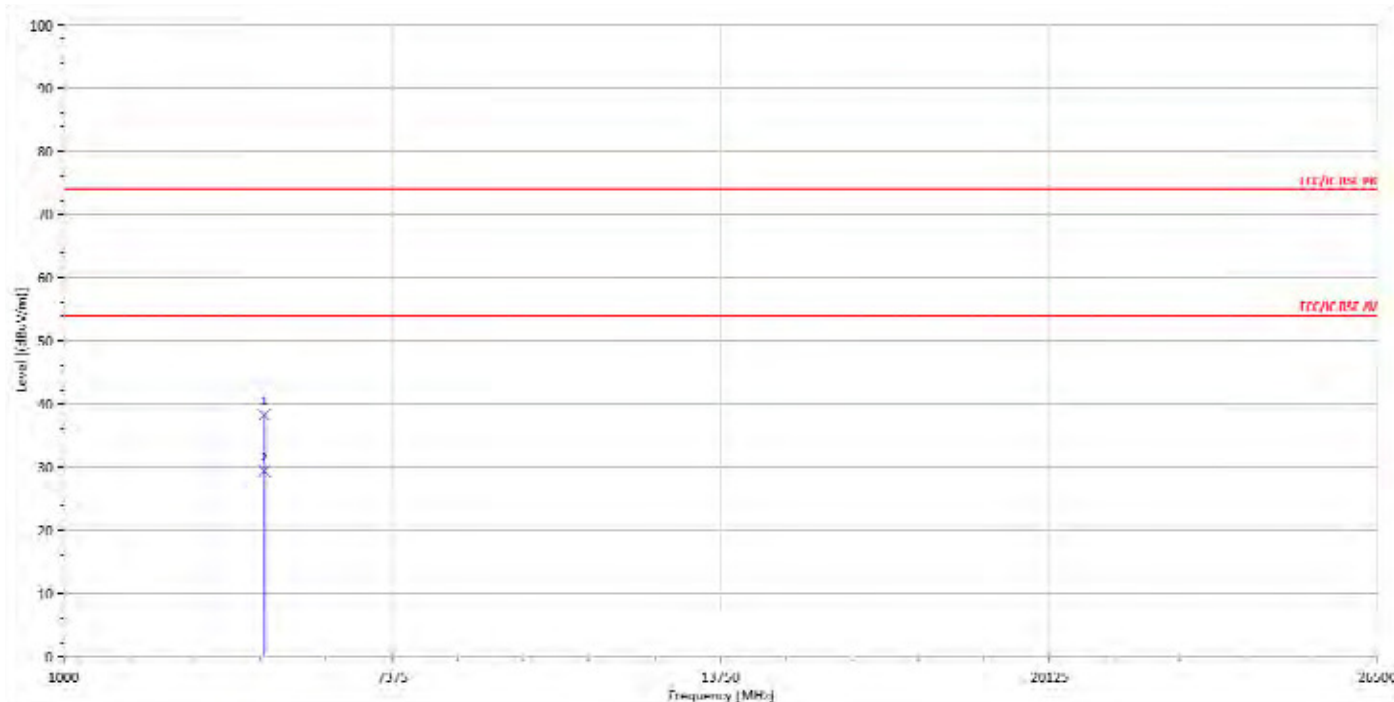
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Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	30.83	7.44	38.27	74	-35.73
4904.00	H	Average	21.87	7.44	29.31	54	-24.69

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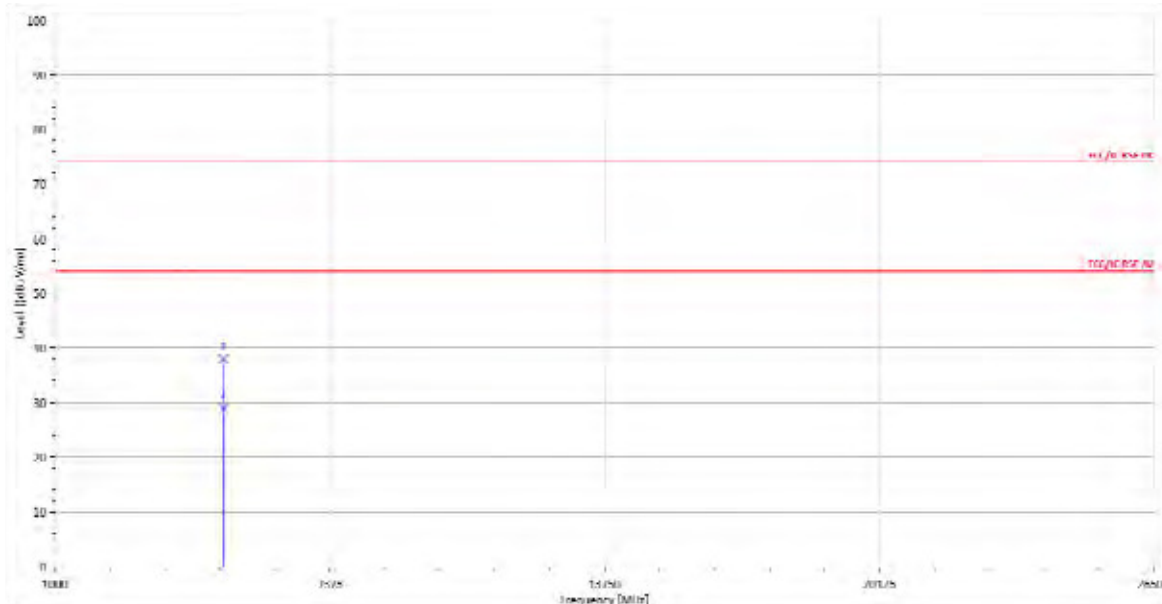
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Operation Mode : 802.11n40 Test Date : 2016/11/3
Fundamental Frequency : 2457 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4914.00	Peak	H	30.28	7.65	37.93	74.00	-36.07
4914.00	Average	H	21.38	7.65	29.03	54.00	-24.97

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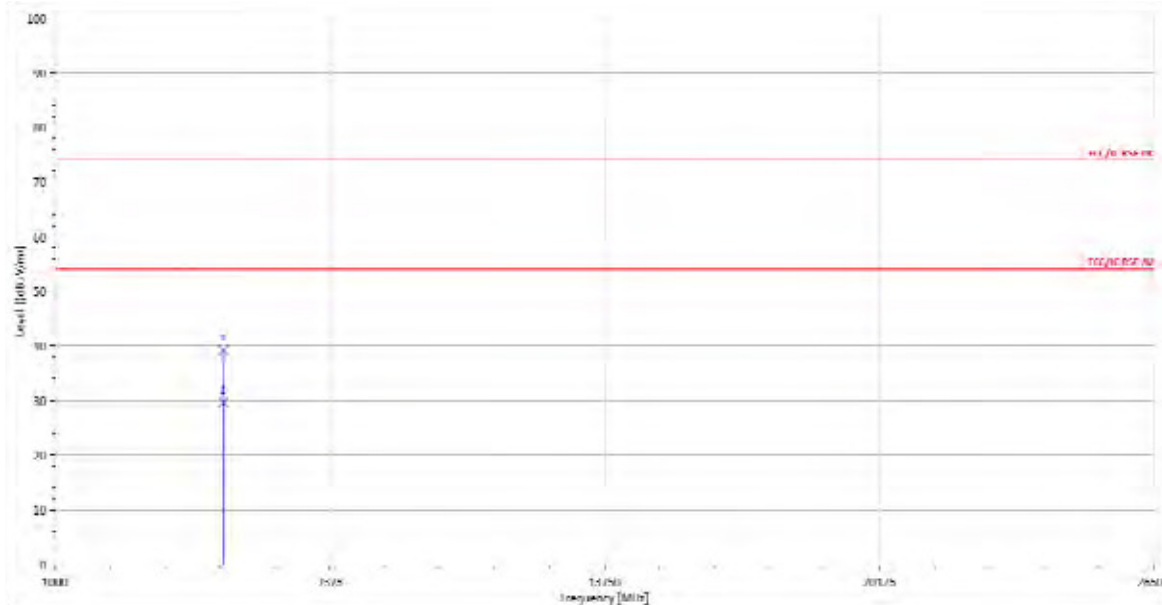
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Fundamental Frequency : 2457 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode PK/QP/AV	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4914.00	Peak	H	31.58	7.65	39.23	74.00	-34.77
4914.00	Average	H	21.97	7.65	29.62	54.00	-24.38

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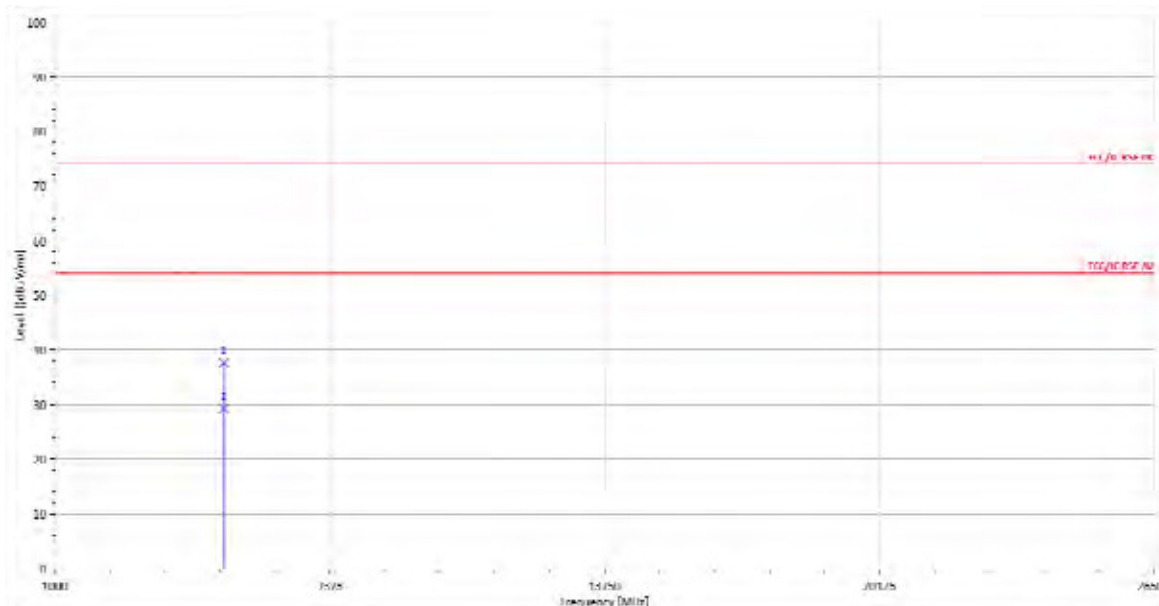
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Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Peak	H	29.69	7.92	37.61	74.00	-36.39
4924.00	Average	H	21.36	7.92	29.28	54.00	-24.72

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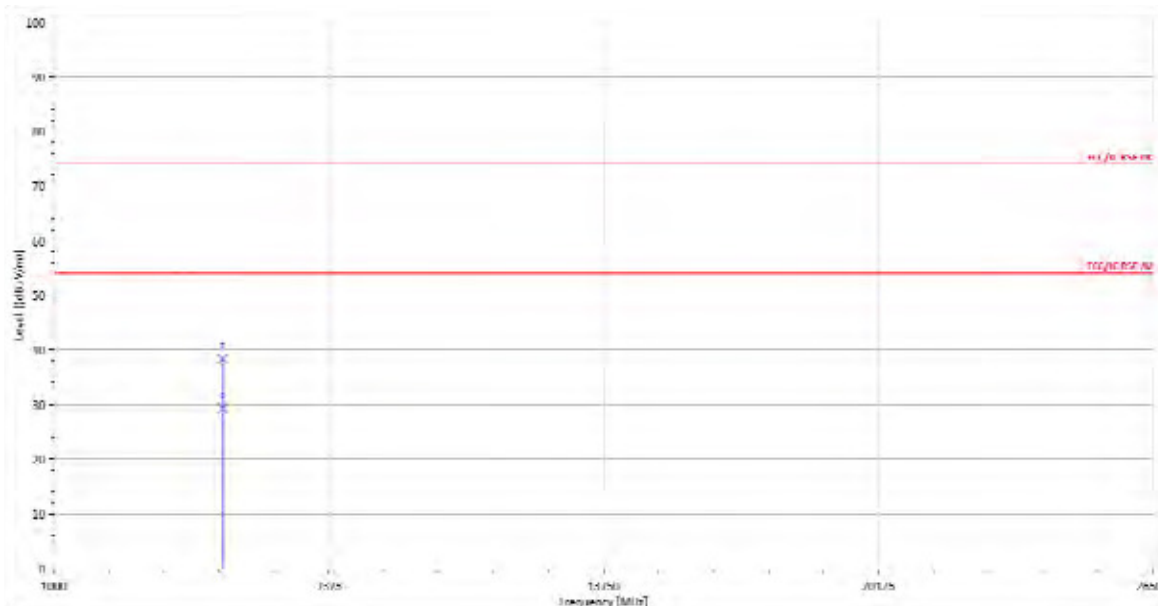
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Operation Band : Tx CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Detector Mode	Note F/H/E/S	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Peak	H	30.45	7.92	38.37	74.00	-35.63
4924.00	Average	H	21.43	7.92	29.35	54.00	-24.65

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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.

Note:

Antenna Gain: -0.88 dBi

Aux1 Antenna Gain: -0.74 dBi

Number Antenna: 2 pcs

Limit: 8 dBm

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

Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

Effective Legacy Gain (dBi) = -0.74+3.01=2.27dBi

Limit: 8dBm – (3.01– 6dBi)=8

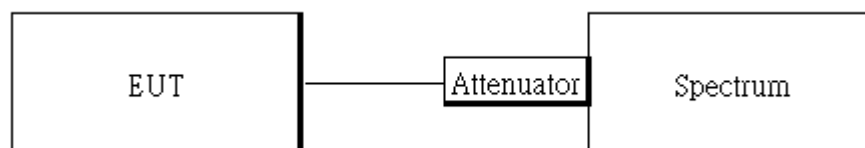
As per KDB 558074 D01 11.1 a) for Conducted Band Edge Limit

If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc)

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	04/14/2016	04/13/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

12.3 Test Set-up



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12.4 Measurement Procedure

Power Density

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 & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
Set the RBW = 100kHz & VBW = 300 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. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application

Conducted Band Edge Limit

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 = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.

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	-8.35	8.00	PASS
2437	-8.41	8.00	PASS
2462	-8.55	8.00	PASS
2467	-9.05	8.00	PASS
2472	-12.17	8.00	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-10.92	8.00	PASS
2437	-10.22	8.00	PASS
2462	-10.16	8.00	PASS
2467	-9.82	8.00	PASS
2472	-12.37	8.00	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-7.60	8.00	PASS
2437	-6.91	8.00	PASS
2462	-6.09	8.00	PASS
2467	-11.42	8.00	PASS
2472	-12.79	8.00	PASS

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-10.63	8.00	PASS
2437	-9.44	8.00	PASS
2452	-12.63	8.00	PASS
2457	-14.873	8.00	PASS
2462	-13.194	8.00	PASS

**Refer to next page for plots*

Bandedge Limit 802.11b MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	5.52	-14.48
2462	5.49	-14.51
2467	5.75	-14.25
2472	0.50	-19.50

Bandedge Limit 802.11g MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	5.12	-14.88
2462	4.53	-15.47
2467	3.99	-16.01
2472	-5.38	-25.38

Bandedge Limit 802.11n20 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2412	7.65	-12.35
2462	8.57	-11.43
2467	1.89	-18.11
2472	-11.33	-31.33

Bandedge Limit 802.11n40 MODE		
Frequency (MHz)	RF Power Density (dBm)	Bandedge Limit (dBm)
2422	4.34	-15.66
2452	3.21	-16.79
2457	-0.157	-20.16
2462	-14.362	-34.36

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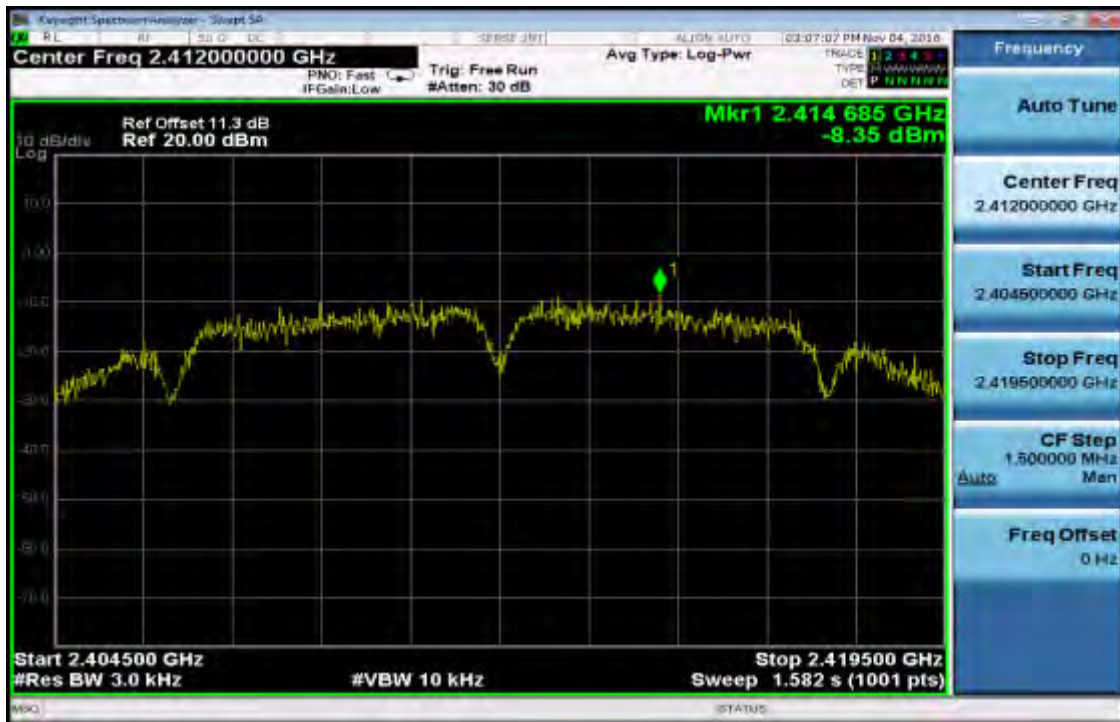
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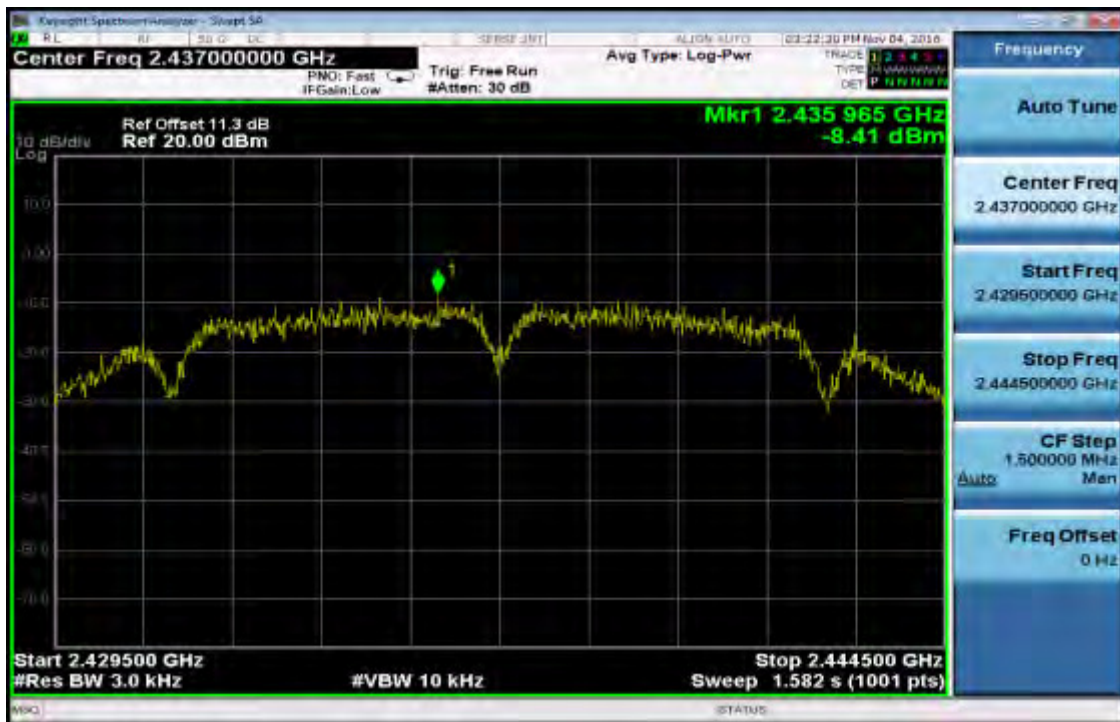
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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-12)



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Power Spectral Density Test Plot (CH-13)



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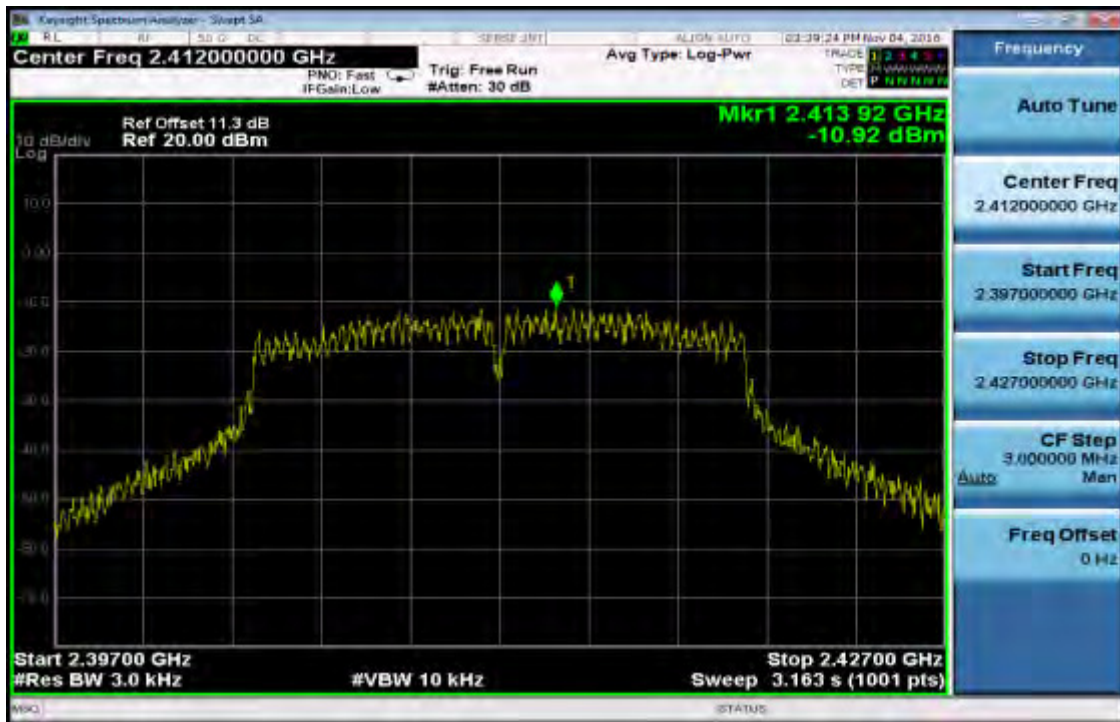
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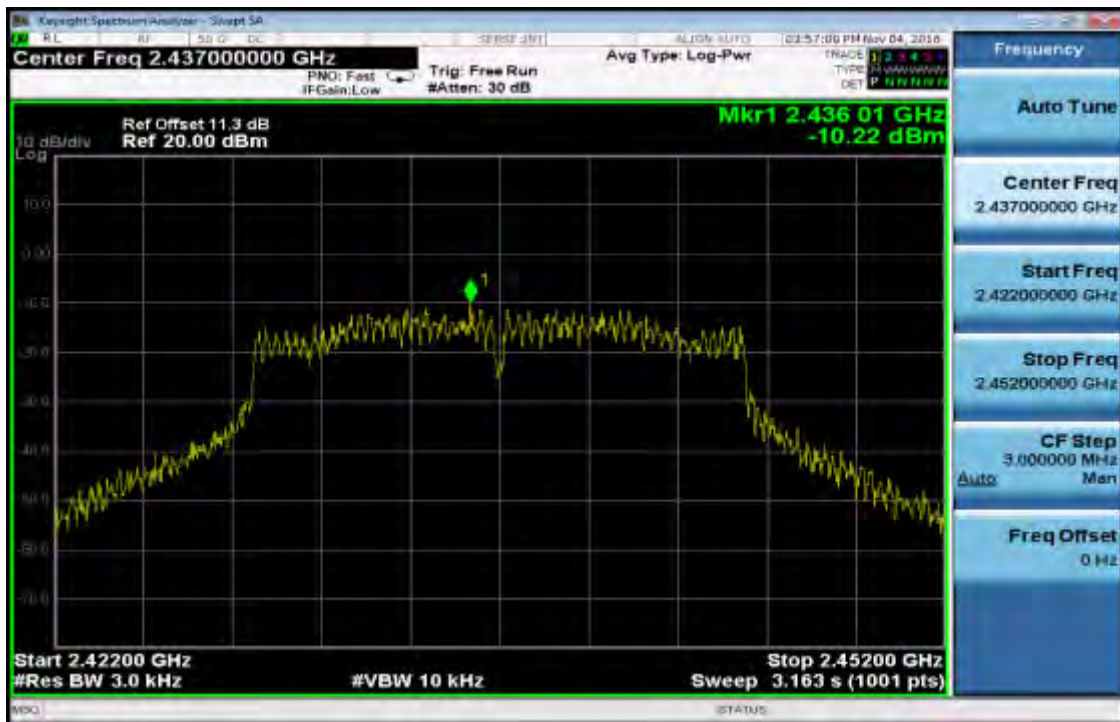
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802.11g

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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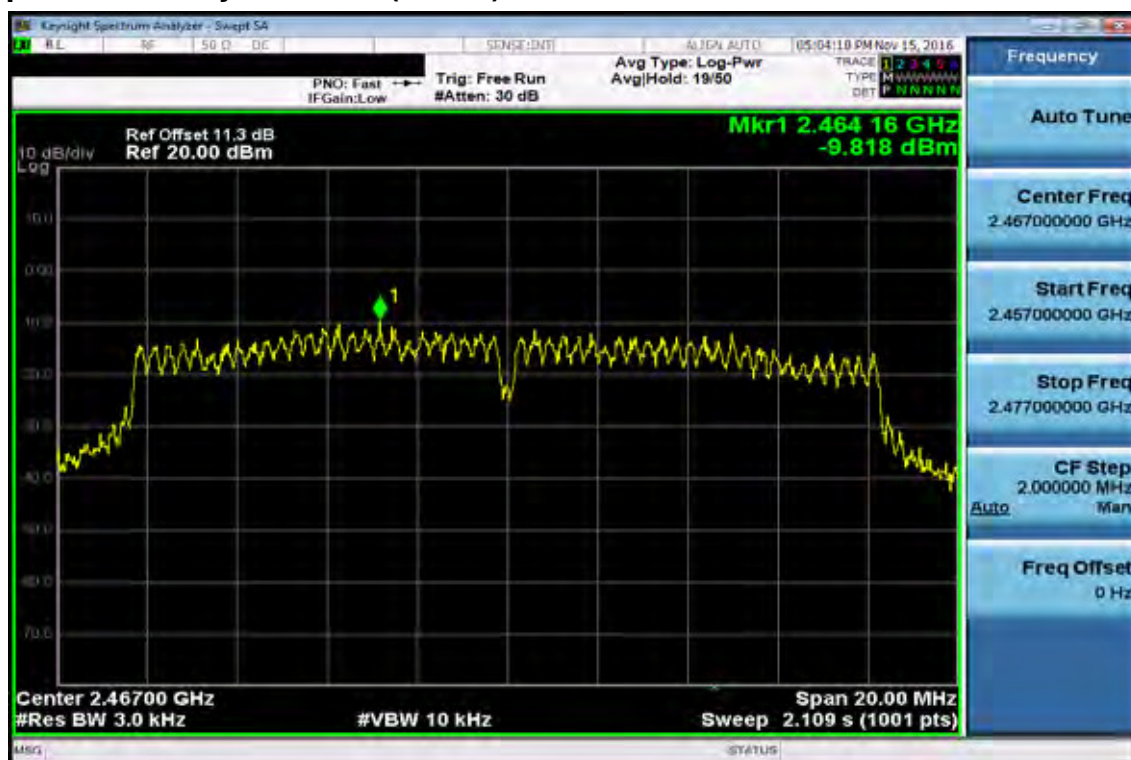
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Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-12)



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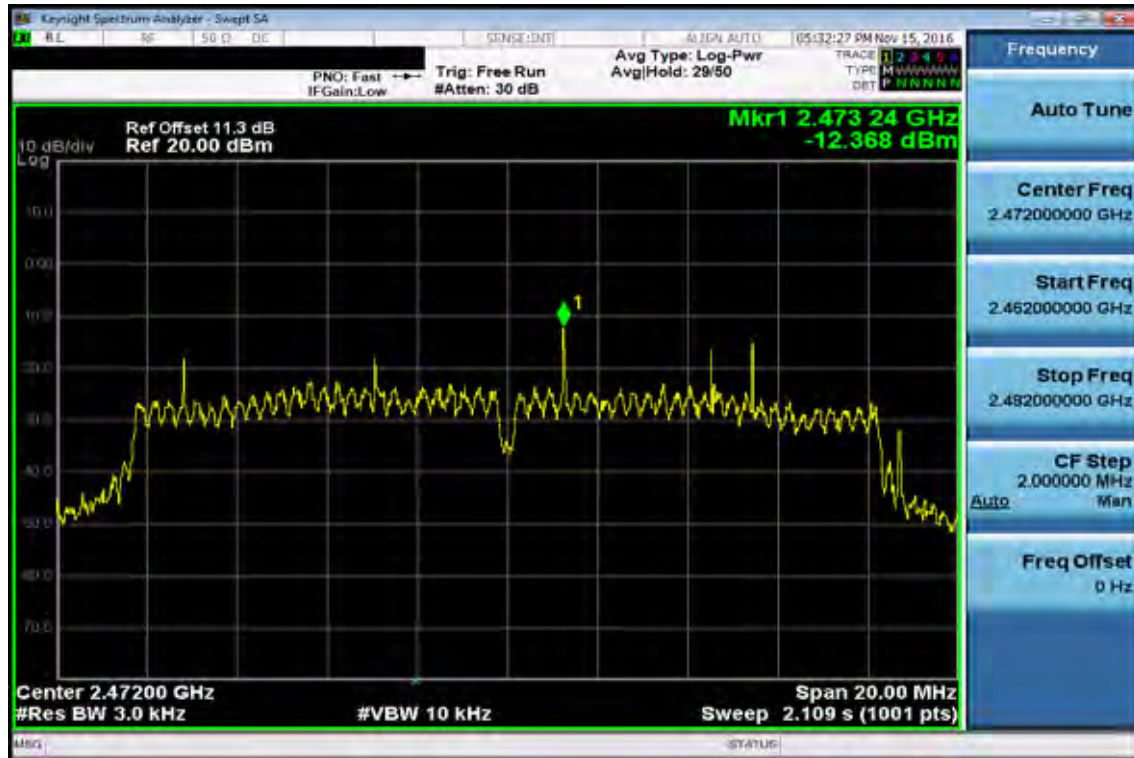
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Power Spectral Density Test Plot (CH-13)



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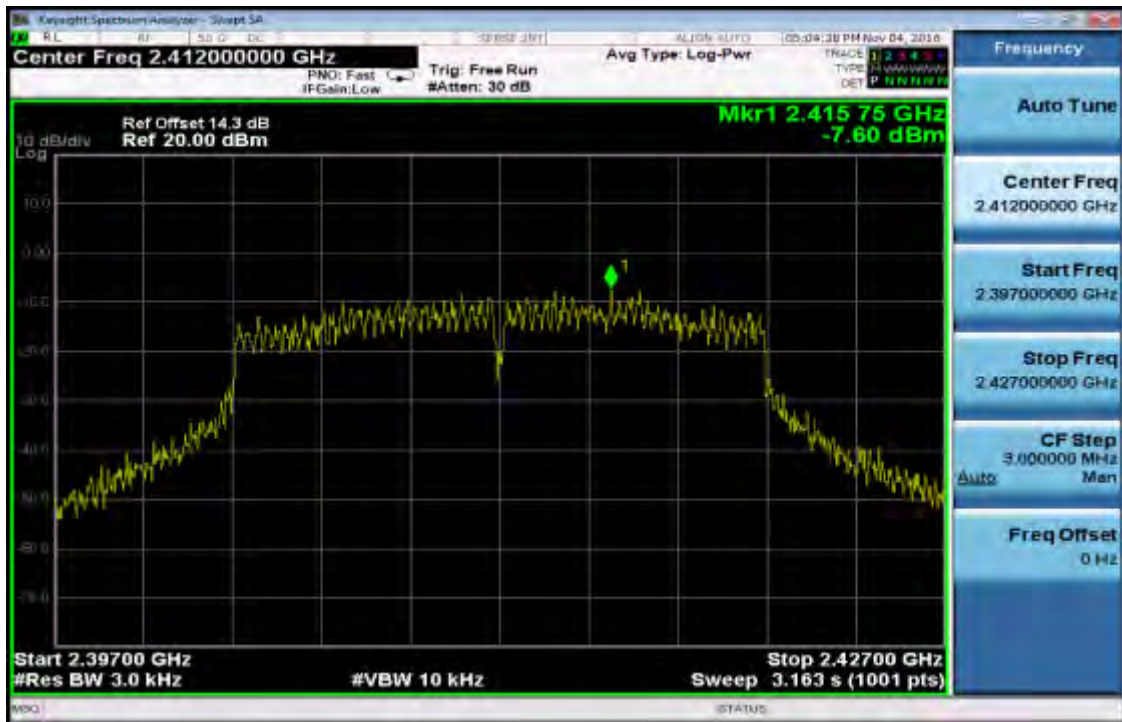
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802.11n_HT20 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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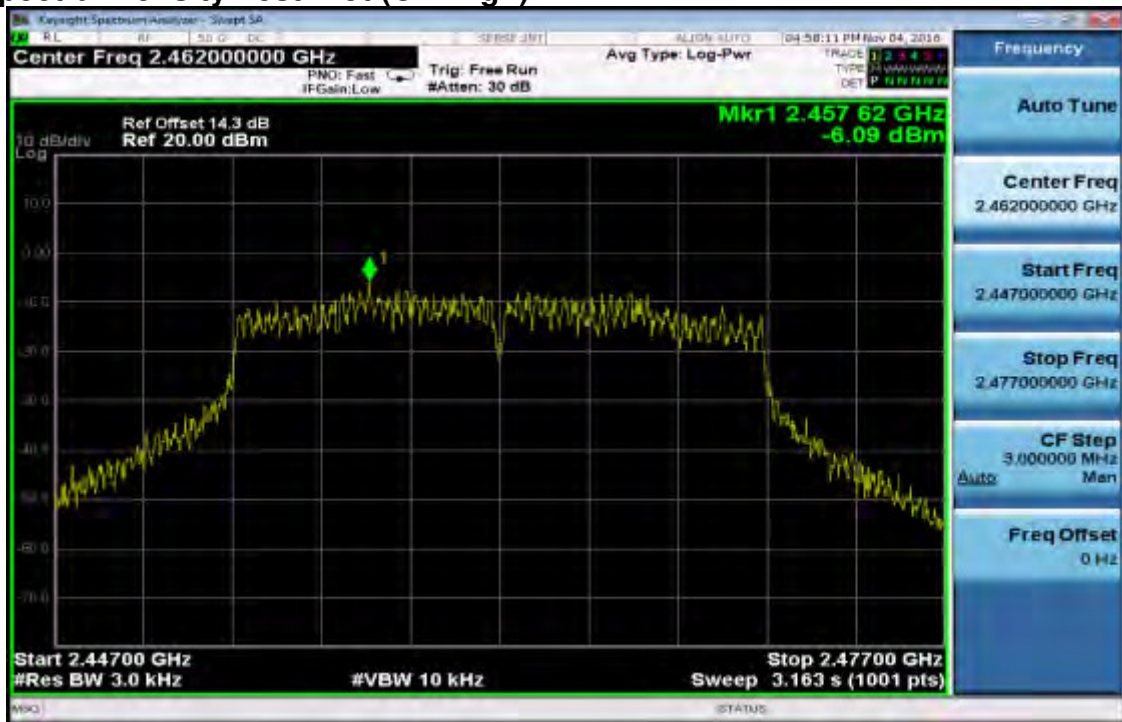
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Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-12)



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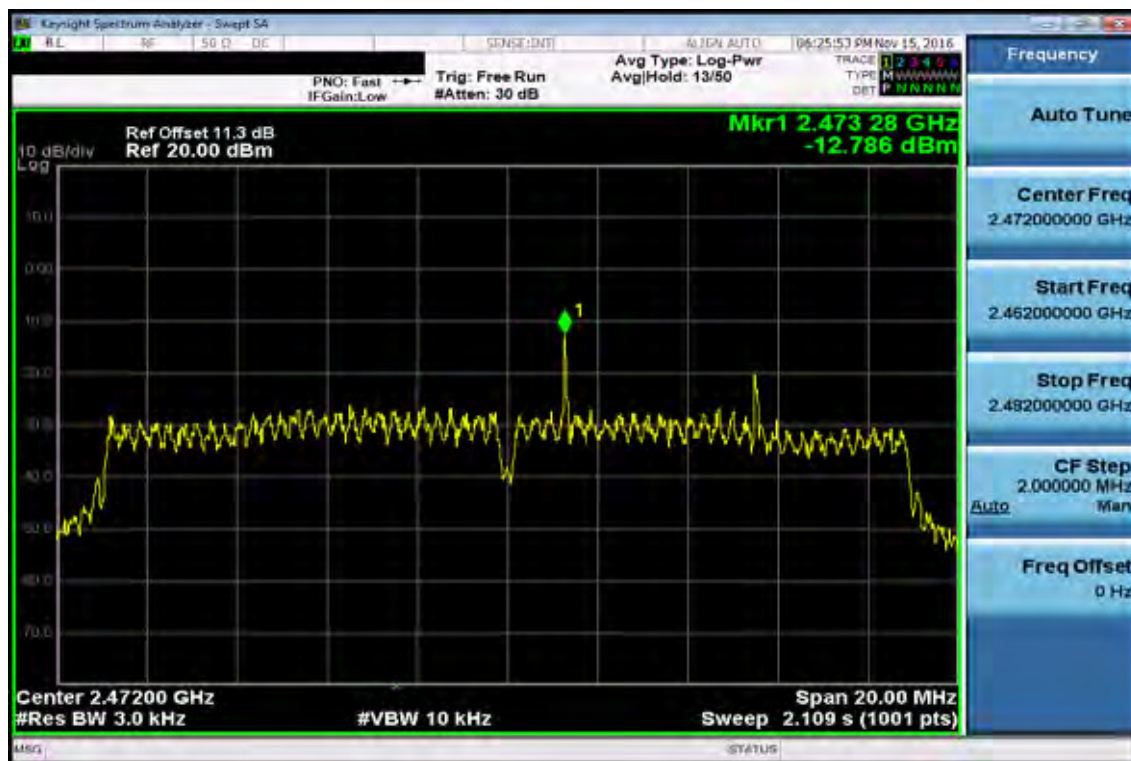
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Power Spectral Density Test Plot (CH-13)



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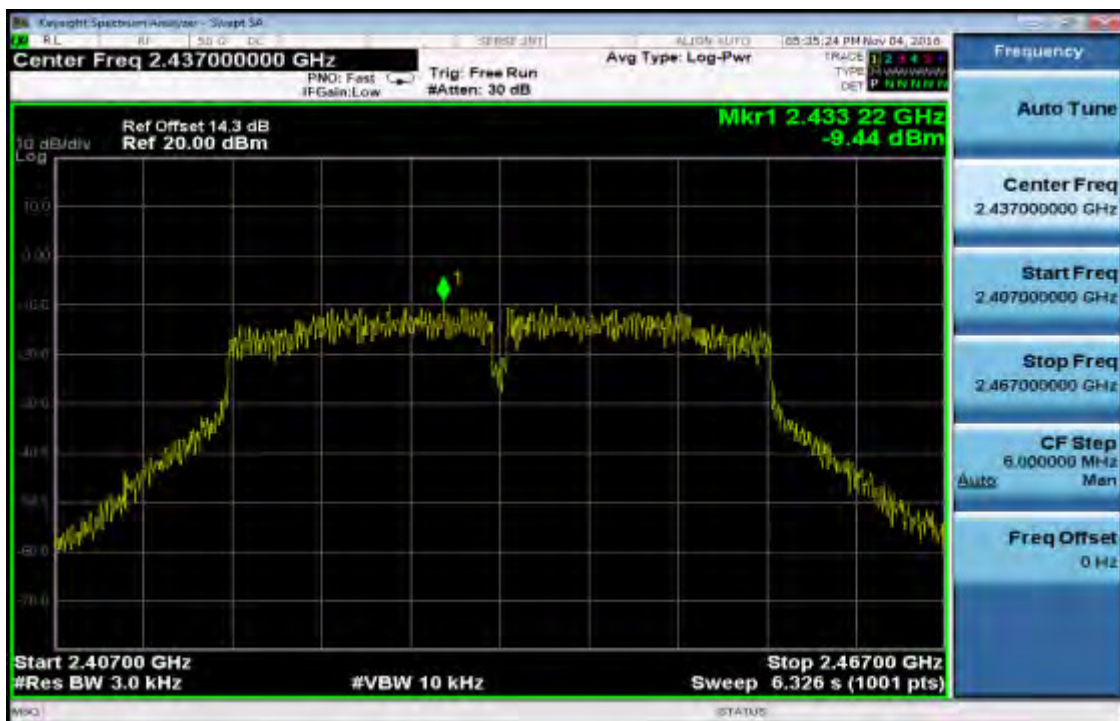
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802.11n_HT40 (MIMO)

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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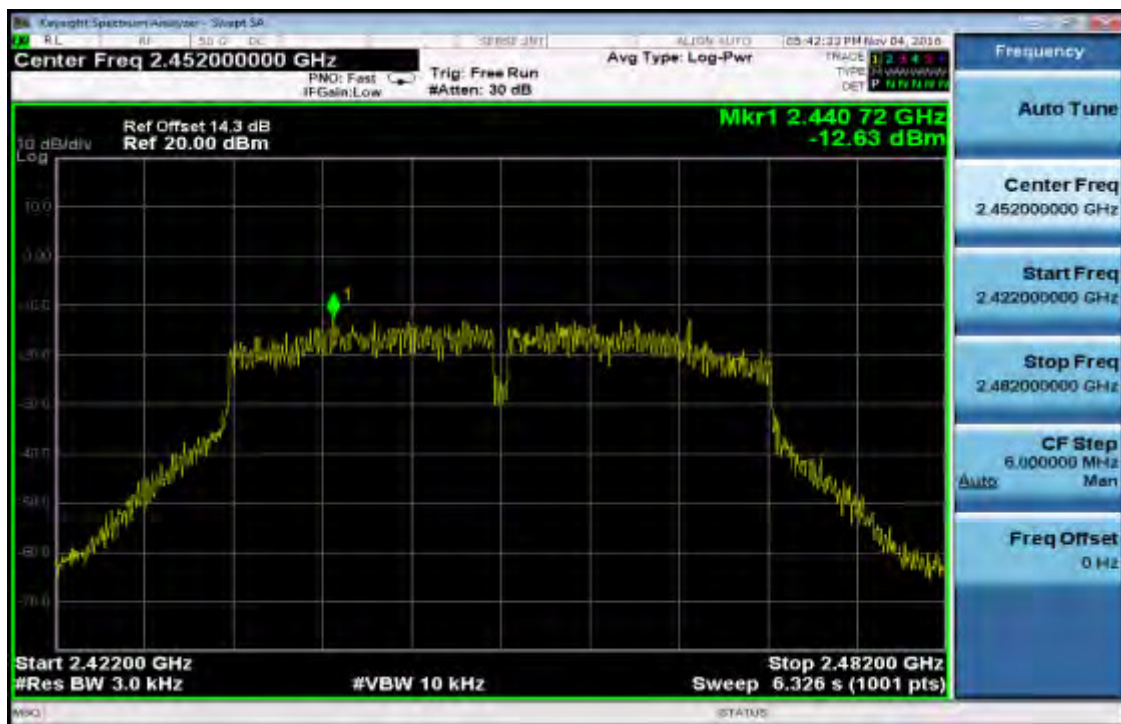
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Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-10)



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Power Spectral Density Test Plot (CH-11)



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802.11b PSD for Band edge Limit (CH-Low)



802.11b PSD for Bandedge Limit(CH-High)



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802.11b PSD for Bandedge Limit (CH-12)



802.11b PSD for Bandedge Limit (CH-13)



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802.11g PSD for Bandedge Limit(CH-Low)



802.11g PSD for Bandedge Limit(CH-High)



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802.11g PSD for Bandedge Limit (CH-12)



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802.11n_HT20 PSD for Bandedge Limit(CH-Low)



802.11n_HT20 PSD for Bandedge Limit(CH-High)



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802.11n HT20 PSD for Bandedge Limit (CH-12)



802.11n HT20 PSD for Bandedge Limit (CH-13)



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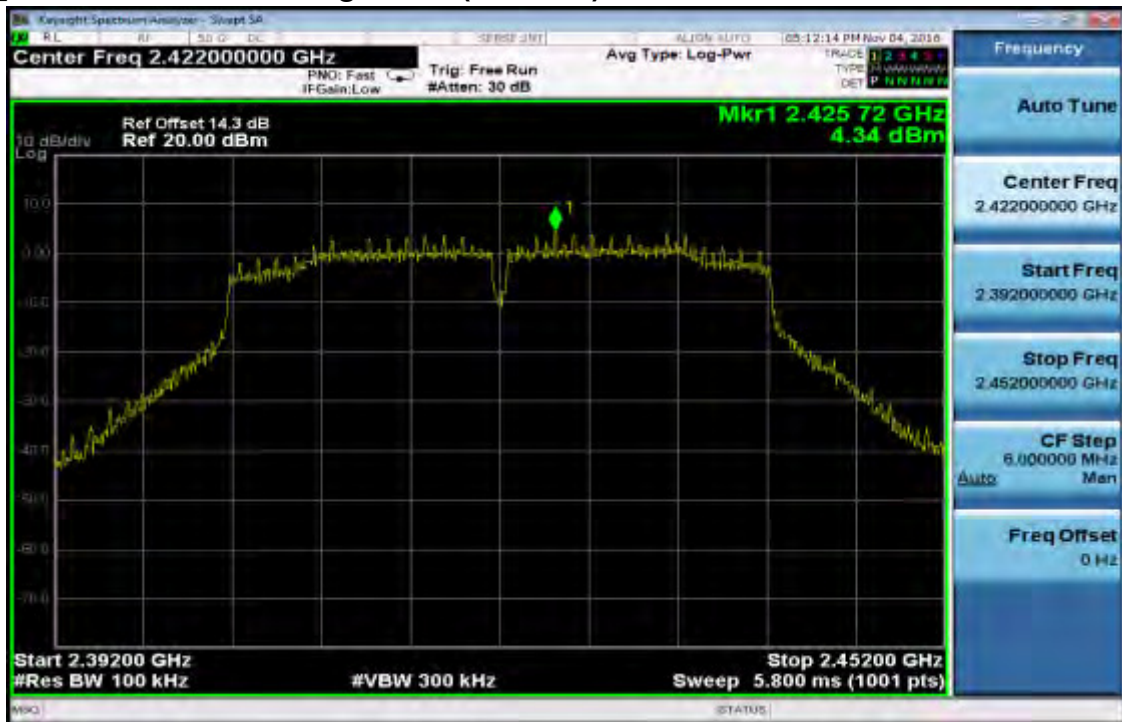
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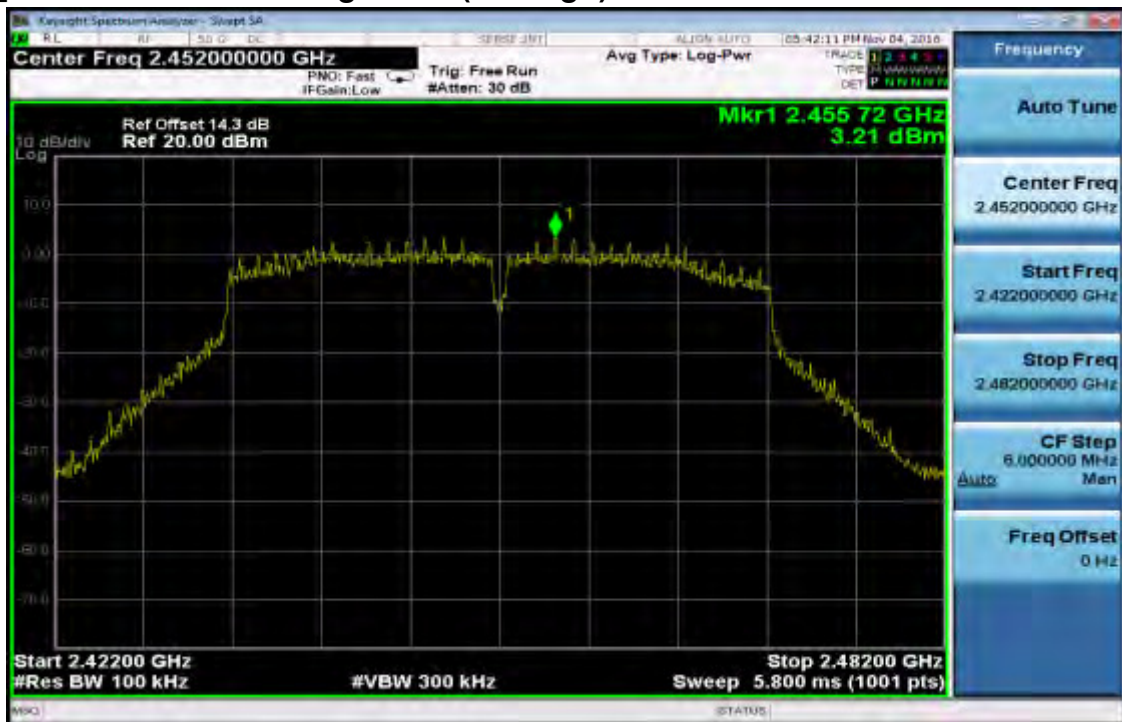
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802.11n_HT40 PSD for Bandedge Limit(CH-Low)



802.11n_HT40 PSD for Bandedge Limit(CH-High)



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802.11n HT40 PSD for Bandedge Limit (CH-10)



802.11n HT40 PSD for Bandedge Limit (CH-11)



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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 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.

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