

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

Product Name: MID

Brand Name: Quanta Computer

Model No. (FCC): K72** (* Can be 0~9, A~Z or blank)

Model No. (IC): K72A

Model Difference: For marketing purpose

FCC ID: HFS-K72A

IC: 1787B-K72A

Report No.: E2/2015/C0050

Issue Date: Jan. 11, 2016

FCC Rule Part: §15.247, Cat: DTS

IC Rule Part: RSS-247 issue 1 :2015

Prepared for: Quanta Computer Inc.
No.188, Wenhua 2nd Rd., Guishan Dist.,
Taoyuan City 33377, Taiwan

Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
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VERIFICATION OF COMPLIANCE

Applicant: Quanta Computer Inc.
No.188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City 33377,
Taiwan

Product Name: MID

Brand Name: Quanta Computer

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IC: 1787B-K72A

Report Number: E2/2015/C0050

Date of test: Dec. 15, 2015 ~ Jan. 11, 2016

Date of EUT Received: Dec. 15, 2015

We hereby certify that:

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

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

Test By:

Jerry Lu

Date:

Jan. 11, 2016

Jerry Lu / Engineer

Prepared By:

Tiffany Kao

Date:

Jan. 11, 2016

Tiffany Kao / Clerk

Approved By:

Jim Chang

Date:

Jan. 11, 2016

Jim Chang / Asst. Manager

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Revision History

Report Number	Revision	Description	Issue Date
E2/2015/C0050	Rev.00	Initial creation of document	Jan. 11, 2016

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1 GENERAL INFORMATION

1.1 Product description

General:

Product Name:	MID
Brand Name:	Quanta Computer
Model No. (FCC):	K72** (* Can be 0~9, A~Z or blank)
Model No. (IC):	K72A
Model Difference:	For marketing purpose
Product SW/HW version:	B1 / B1
Radio SW/HW version:	v4.3.0_10579.20140221_BTCOEX20140110-4940 / v01
Test SW Version:	N/A
RF power setting in TEST SW:	N/A
Power Supply:	100~240V from AC power cord

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WLAN 2.4GHz:

Wi-Fi	Frequency Range	Channels	Rated Power / (EIRP)	Type of Emission	Modulation Technology
11b/g	2412-2462	11	b: 16.95dBm b: 17.09dBm (EIRP) g: 22.81dBm g: 17.12dBm (EIRP)	b: 15M4G1D g:16M6D1D	DSSS, OFDM
11n	HT20 2412-2462	11	HT20:22.70dBm HT20:17.08dBm (EIRP)	HT20:17M8D1D	OFDM
11n	HT40 2422-2452	7	HT40: 22.97dBm HT40: 17.12dBm(EIRP)	HT40:36M1D1D	OFDM
Antenna Designation:		PIFA Antenna, Antenna Gain: 2.14dBi Model No.: QTK71WIPB01+A, Supplier: Well Green Technology Co., Ltd			
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:		802.11 b: up to 11 Mbps; 802.11 g: up to 54 Mbps 802.11 n_20MHz: up to 72.2Mbps 802.11 n_40MHz: up to 135Mbps			

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1.2 Product Feature of Equipment Under Test

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

Product Feature	
Product Name:	MID
Brand Name:	Quanta Computer
Model No. (FCC):	K72** (* Can be 0~9, A~Z or blank)
Model No. (IC):	K72A
Model Difference:	For marketing purpose
FCC ID:	HFS-K72A
IC :	1787B-K72A
Bluetooth Version	V4.0 dual mode
Wi-Fi- Specification	802.11b/g/n
NFC Specification	NFC

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

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r04

Canada RSS-247 issue 1 May 2015

Canada RSS-Gen issue 4 Nov. 2014

ANSI C63.10:2013

Note:

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

1.4 Test Facility

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

(TAF code 0513)

FCC Registration Numbers are: 628985

Canada Registration Number: 4620A-5.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Radiated Emissions

The EUT is a placed on as turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground 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 3.5dB and 10dB attenuator.

$$\text{offset} = \text{RF cable loss (dB)} + \text{attenuation factor(dB)} = 12(\text{dB})$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission



Fig. 2- 2 AC Power Line Conducted Emission

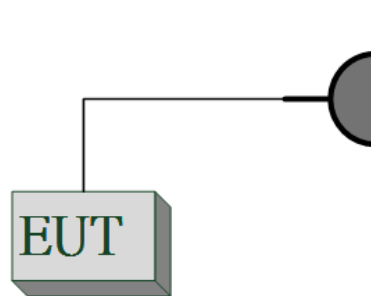


Table 2-1 Equipment Used in Tested System

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

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3 SUMMARY OF TEST RESULTS

FCC Rules / 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) RSS- Gen §6.7 RSS- Gen §8.3	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n HT20

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

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RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	MAIN

Note:

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

ANTENNA PORT CONDUCTED MEASUREMENT:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1, 6, 11	DSSS	1	MAIN
802.11g	1 to 11	1, 6, 11	OFDM	6	MAIN
802.11n (HT20)	1 to 11	1, 6, 11	OFDM	MCS 0	MAIN
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	MCS 0	MAIN

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

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

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- The lower limit shall apply at the transition frequencies
- 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	01/06/2015	01/07/2016
LISN	Schwarzbeck	NSLK 8127	8127-648	06/09/2015	06/08/2016
LISN	Rolf-Heine	NNB-2/16Z	99012	03/04/2015	03/03/2016
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

6.3 EUT Setup

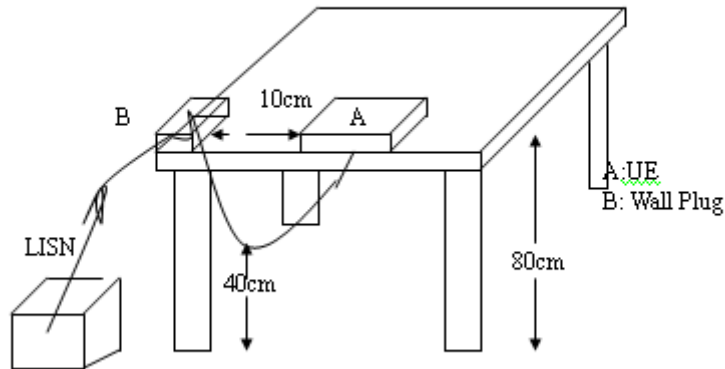
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Jan. 05, 2016
Temperature:	26		

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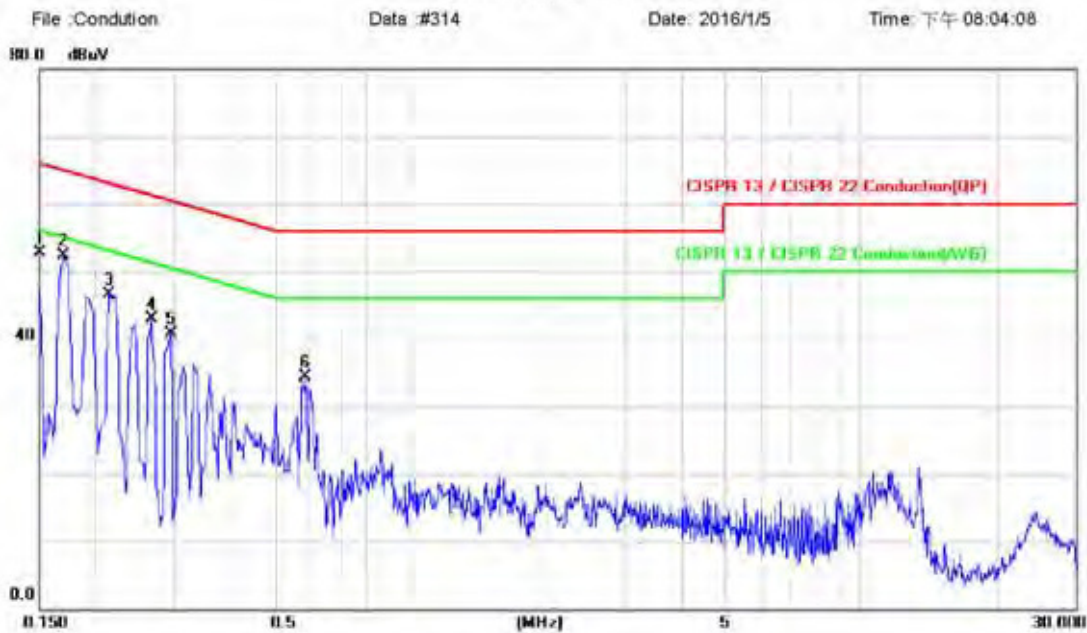
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Site : Conduction Room Phase: **N** Temperature: 21 °C
 Limit: CISPR 13 / CISPR 22 Conduction(QP) Power: AC 120V/60Hz Humidity: 75 %
 Mode:
 Note:

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	52.60	0.14	52.74	66.00	-13.26	peak	
2	*	0.1700	52.16	0.14	52.30	64.96	-12.66	peak	
3		0.2140	46.44	0.14	46.58	63.05	-16.47	peak	
4		0.2660	42.83	0.16	42.99	61.24	-18.25	peak	
5		0.2940	40.54	0.17	40.71	60.41	-19.70	peak	
6		0.5860	33.94	0.29	34.23	56.00	-21.77	peak	

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7 DUTY CYCLE OF TEST SIGNAL

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

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

Formula:

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

Measurement Procedure:

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

Duty Cycle:

	Duty Cycle (%)	Duty Factor (dB)
802.11b	100.00	0.00
802.11g	100.00	0.00
802.11n_20	100.00	0.00
802.11n_40	100.00	0.00

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g



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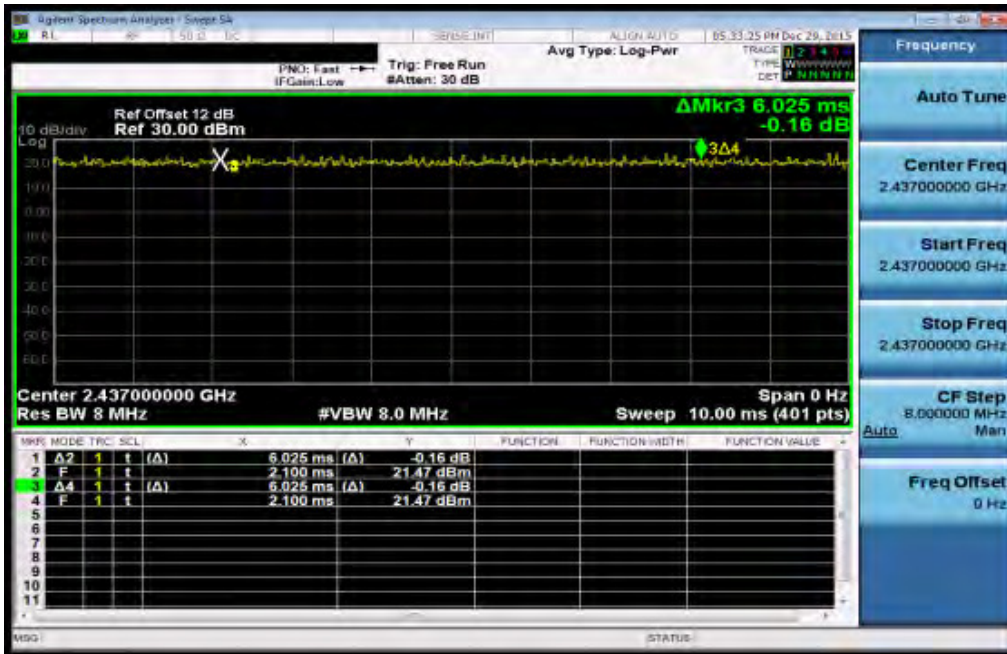
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802.11 n_20 MHz



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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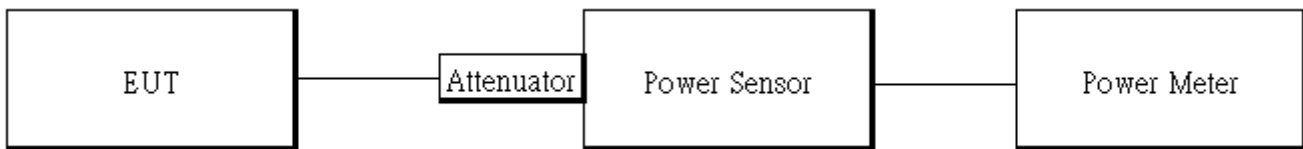
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8.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	06/23/2015	06/22/2016
Power Sensor	Anritsu	MA2411B	1315048	06/23/2015	06/22/2016
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G18 G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

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

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

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8.5 Measurement Result

802.11b						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	1	16.95	49.55	1 Watt = 30.00 dBm	PASS
6	2437	1	16.92	49.20	1 Watt = 30.00 dBm	PASS
11	2462	1	16.90	48.98	1 Watt = 30.00 dBm	PASS
802.11b						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	1	14.95	31.26	1 Watt = 30.00 dBm	PASS
6	2437	1	14.94	31.19	1 Watt = 30.00 dBm	PASS
11	2462	1	14.93	31.12	1 Watt = 30.00 dBm	PASS

802.11g						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	6	22.78	189.67	1 Watt = 30.00 dBm	PASS
6	2437	6	22.81	190.99	1 Watt = 30.00 dBm	PASS
11	2462	6	22.74	187.93	1 Watt = 30.00 dBm	PASS
802.11g						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	6	14.98	31.48	1 Watt = 30.00 dBm	PASS
6	2437	6	14.95	31.26	1 Watt = 30.00 dBm	PASS
11	2462	6	14.85	30.55	1 Watt = 30.00 dBm	PASS

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802.11n_20M						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
1	2412	MCS0	22.70	186.21	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	22.50	177.83	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	22.67	184.93	1 Watt = 30.00 dBm	PASS
802.11n_20M						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
1	2412	MCS0	14.92	31.05	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	14.94	31.19	1 Watt = 30.00 dBm	PASS
11	2462	MCS0	14.82	30.34	1 Watt = 30.00 dBm	PASS

802.11n_40M						
CH	Frequency (MHz)	Data Rate	Peak Output Power (dBm)	Peak Output Power (mW)	Limit	RESULT
3	2422	MCS0	22.97	198.15	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	22.70	186.21	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	22.14	163.68	1 Watt = 30.00 dBm	PASS
802.11n_40M						
CH	Frequency (MHz)	Data Rate	Avg. Output Power (dBm)	Avg. Output Power (mW)	Limit	RESULT
3	2422	MCS0	14.98	31.48	1 Watt = 30.00 dBm	PASS
6	2437	MCS0	14.93	31.12	1 Watt = 30.00 dBm	PASS
9	2452	MCS0	13.65	23.17	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**

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	14.95	31.261	2.14	17.09	36	PASS
6	2437	14.94	31.189	2.14	17.08	36	PASS
11	2462	14.93	31.117	2.14	17.07	36	PASS

802.11g

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	14.98	31.477	2.14	17.12	36	PASS
6	2437	14.95	31.261	2.14	17.09	36	PASS
11	2462	14.85	30.549	2.14	16.99	36	PASS

802.11n_20M

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
1	2412	14.92	31.046	2.14	17.06	36	PASS
6	2437	14.94	31.189	2.14	17.08	36	PASS
11	2462	14.82	30.339	2.14	16.96	36	PASS

802.11n_40M

CH	Frequency (MHz)	Avg. Output Power		GAIN (dBi)	EIRP	REQUIRED LIMIT (dBm)	RESULT
		TOTAL POWER (dBm)	TOTAL POWER (mW)				
3	2422	14.98	31.477	2.14	17.12	36	PASS
6	2437	14.93	31.117	2.14	17.07	36	PASS
9	2452	13.65	23.174	2.14	15.79	36	PASS

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

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9 6DB & 99% BANDWIDTH MEASUREMENT

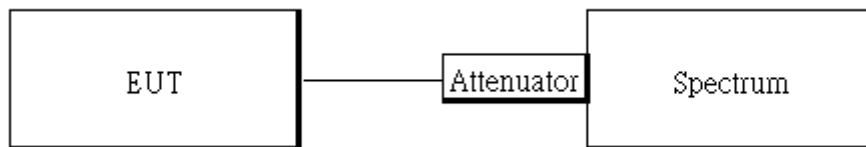
9.1 Standard Applicable

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	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

9.3 Test Set-up



9.4 Measurement Procedure

- 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 V03r04.
- 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

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	10080	> 500	PASS
2437	10087	> 500	PASS
2462	10065	> 500	PASS

802.11g

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	16605	> 500	PASS
2437	16592	> 500	PASS
2462	16601	> 500	PASS

802.11_n20

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2412	17857	> 500	PASS
2437	17868	> 500	PASS
2462	17840	> 500	PASS

802.11_n40

Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
2422	36440	> 500	PASS
2437	36476	> 500	PASS
2452	36462	> 500	PASS

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99% Bandwidth

802.11b	
Frequency (MHz)	99%Bandwidth (MHz)
2412	14.952
2437	15.415
2462	15.002

802.11g	
Frequency (MHz)	99%Bandwidth (MHz)
2412	16.584
2437	16.566
2462	16.534

802.11n_20M	
Frequency (MHz)	99%Bandwidth (MHz)
2412	17.821
2437	17.738
2462	17.826

802.11n_40M	
Frequency (MHz)	99%Bandwidth (MHz)
2422	36.12
2437	36.129
2452	36.109

**Refer to next page for plots*

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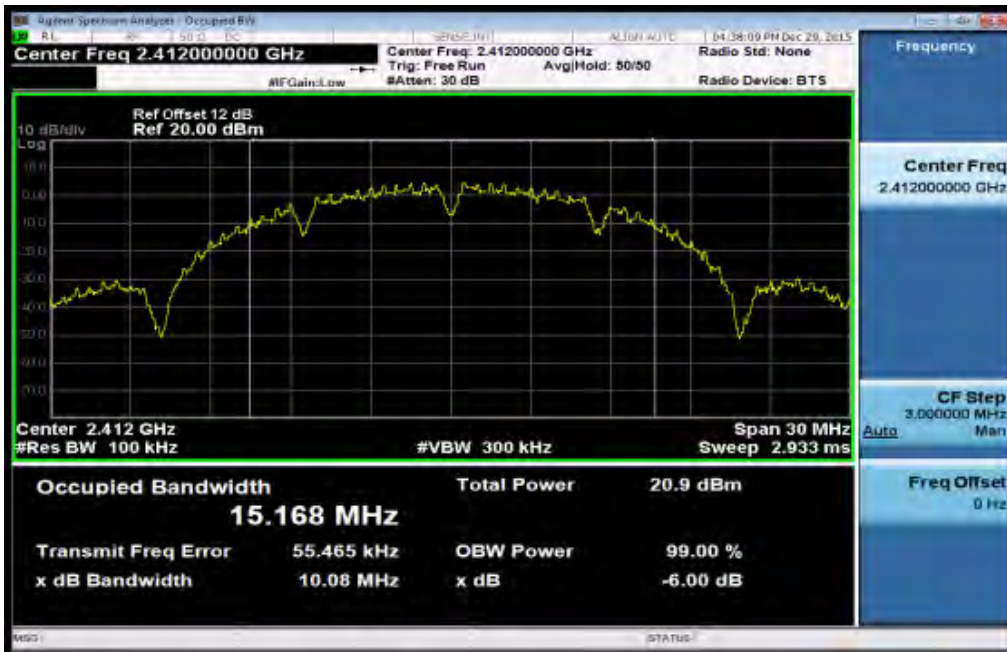
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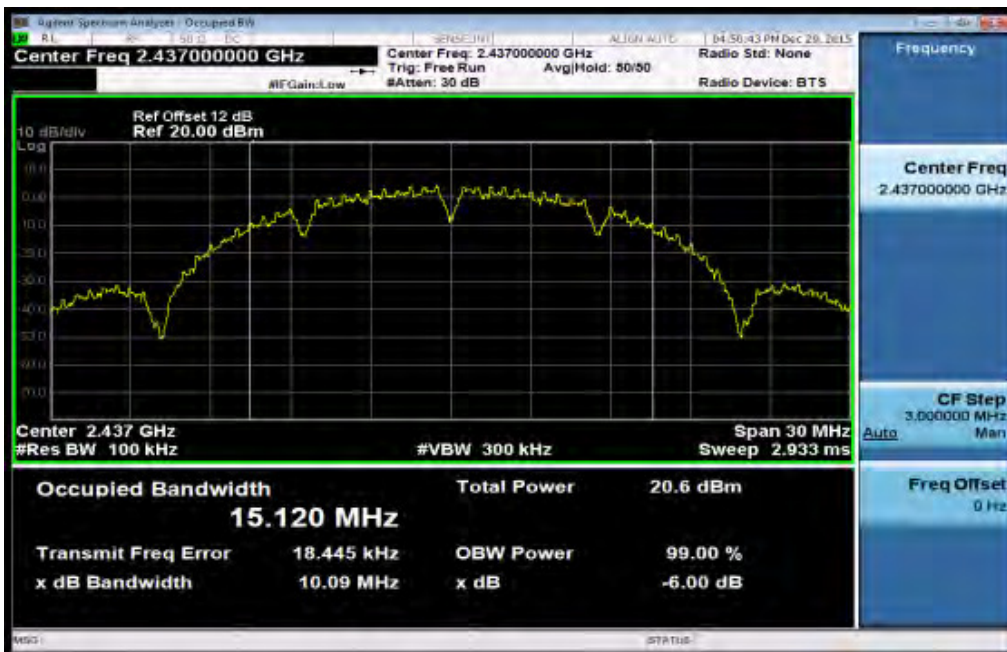
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802.11b
6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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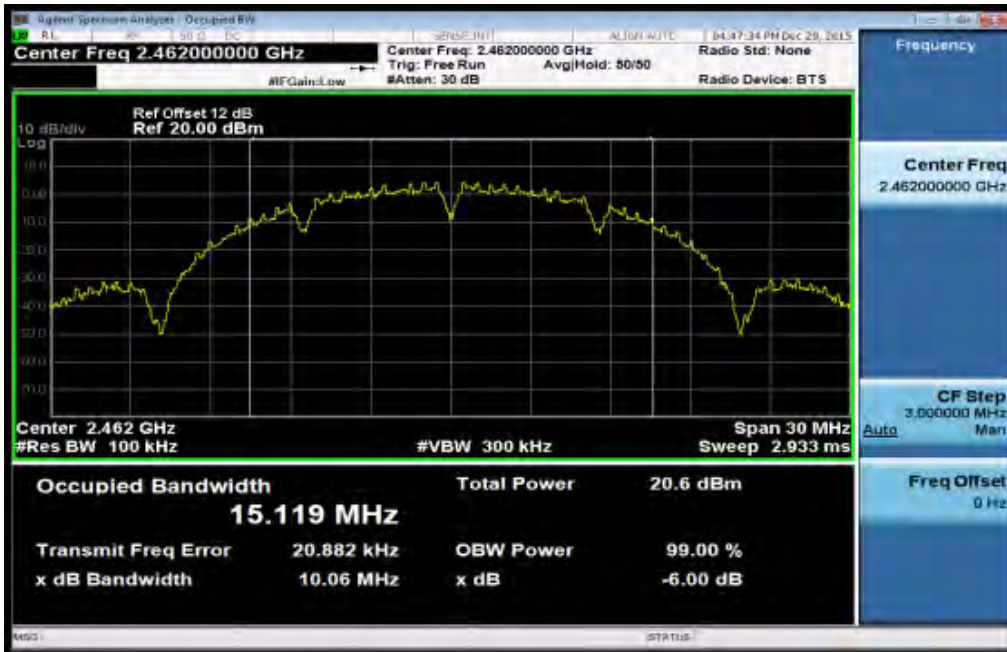
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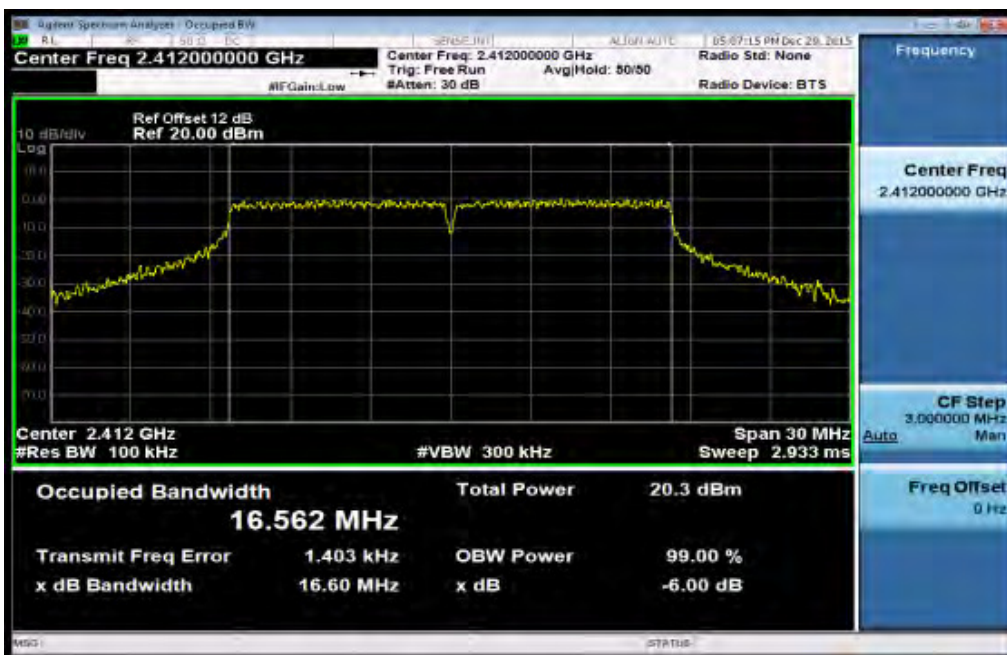
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6dB Band Width Test Data CH-High



802.11g

6dB Band Width Test Data CH-Low



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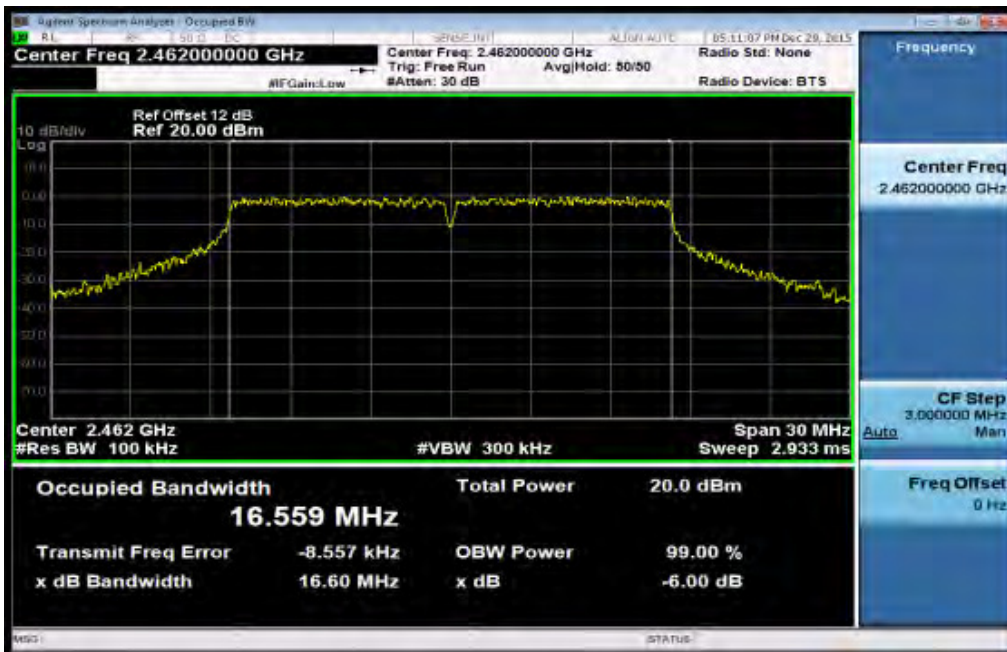
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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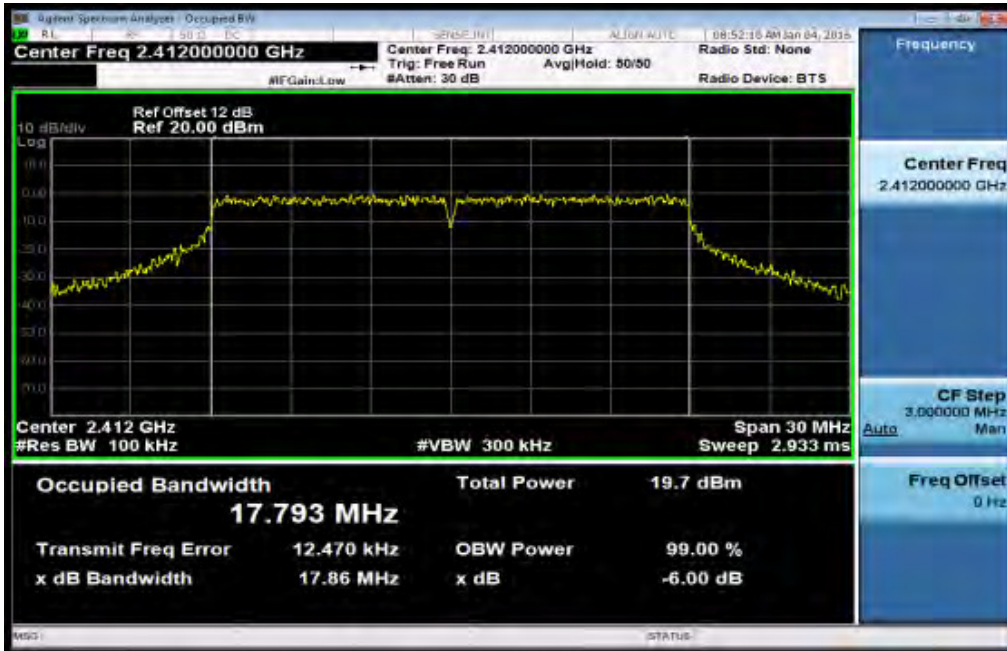
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802.11n_20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



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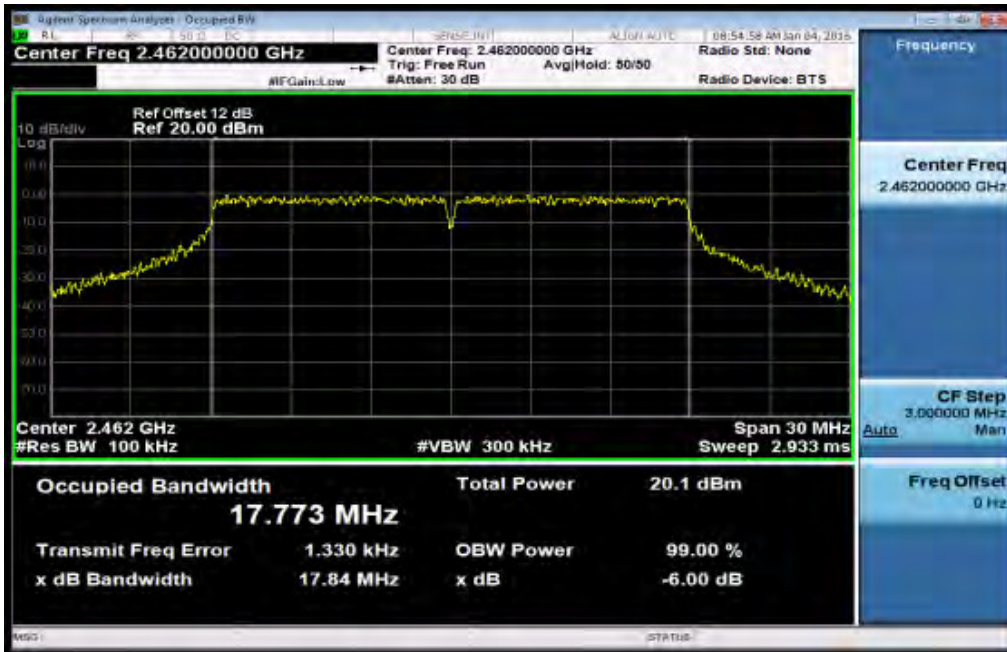
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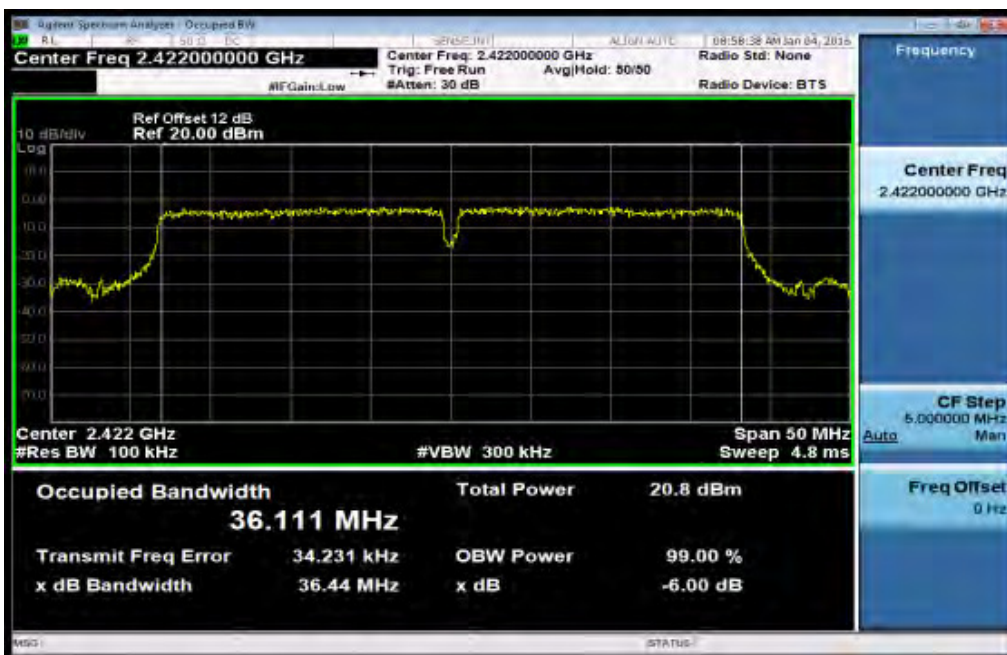
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6dB Band Width Test Data CH-High



802.11n_40M

6dB Band Width Test Data CH-Low



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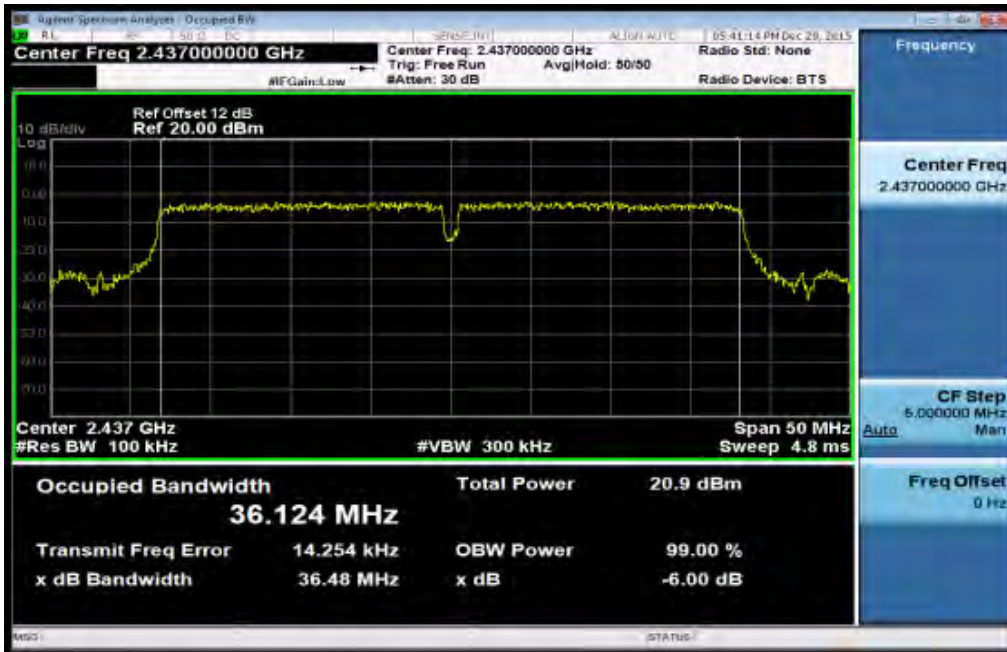
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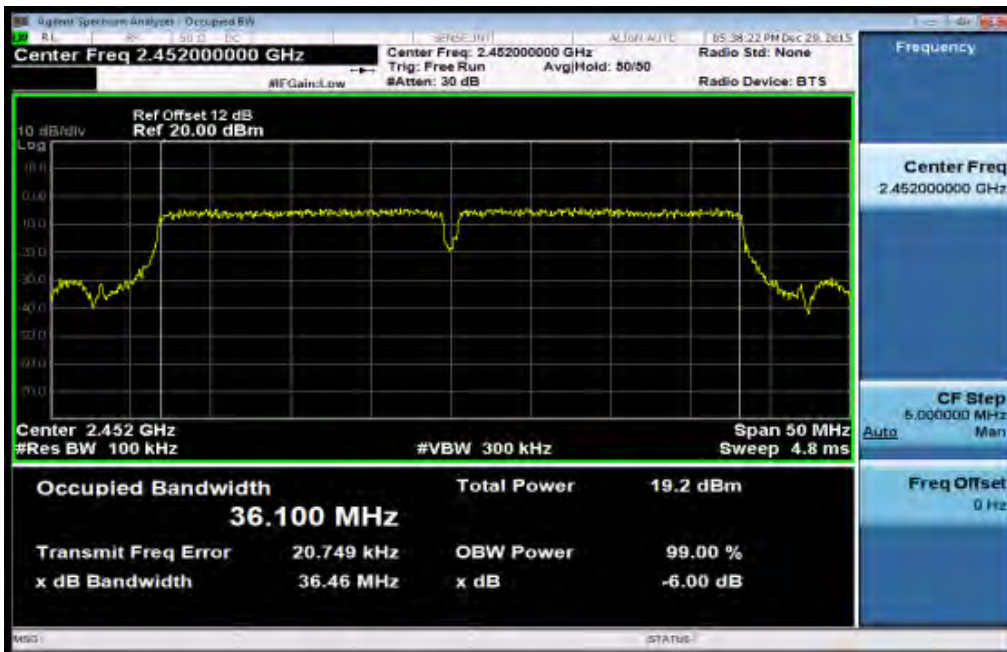
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6dB Band Width Test Data CH-Mid



6dB Band Width Test Data CH-High



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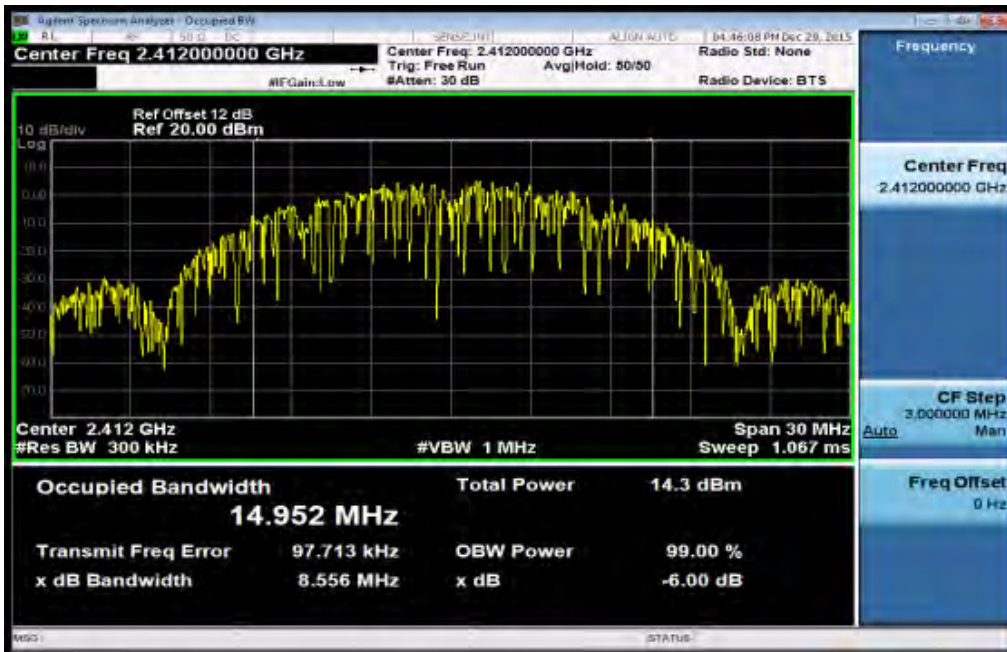
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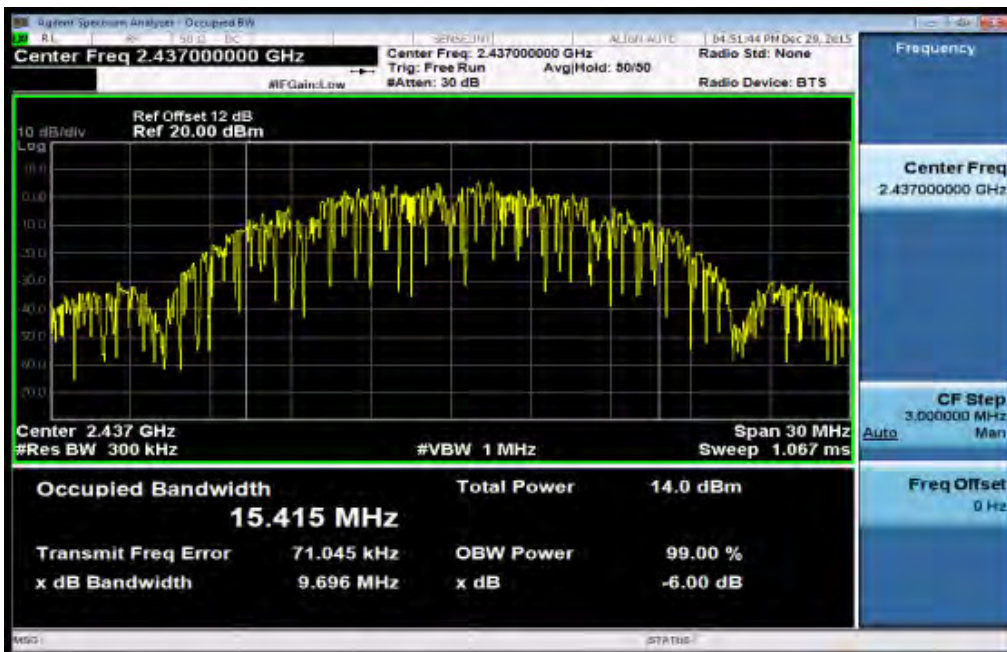
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802.11b
99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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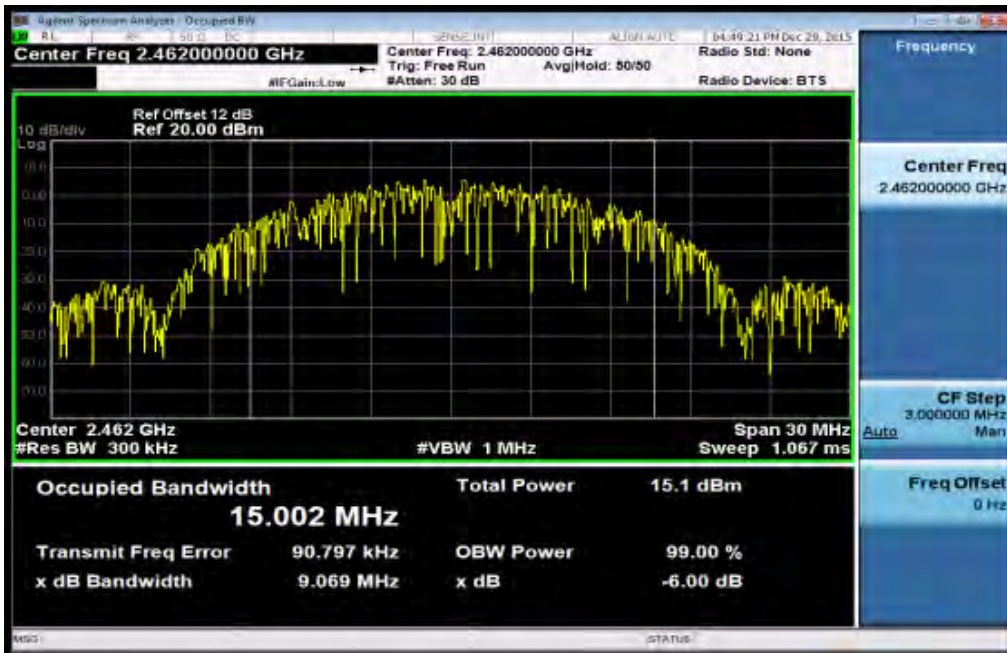
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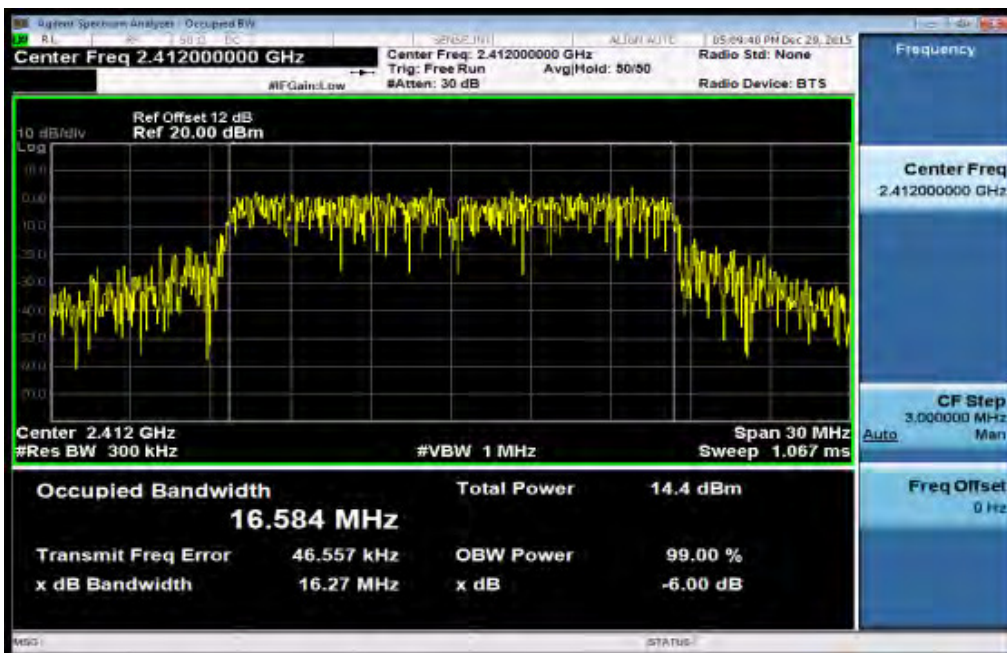
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99% Band Width Test Data CH-High



802.11g

99% Band Width Test Data CH-Low



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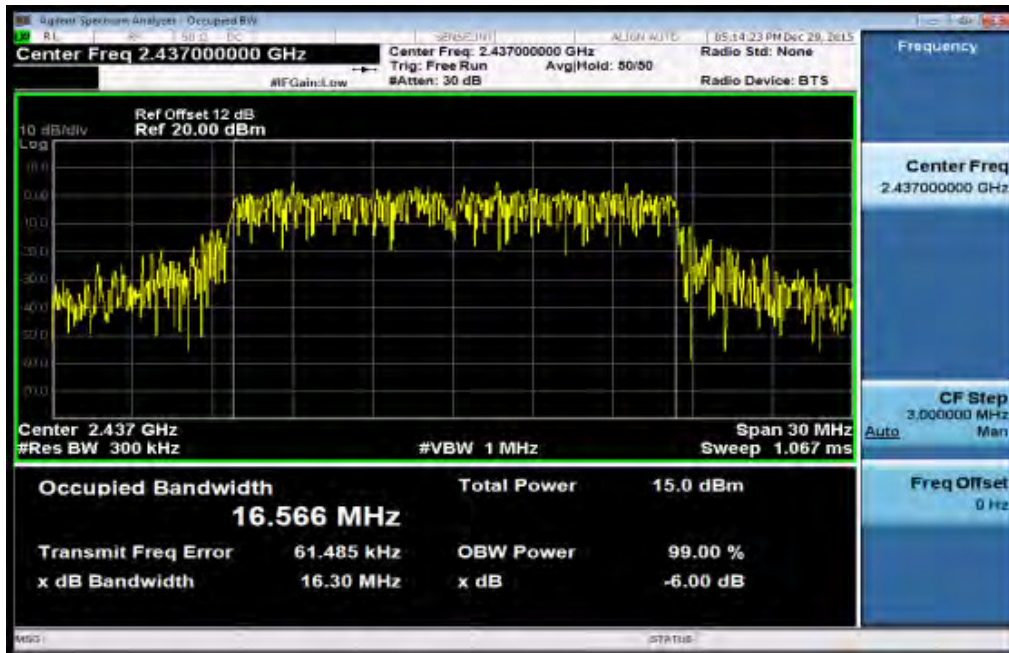
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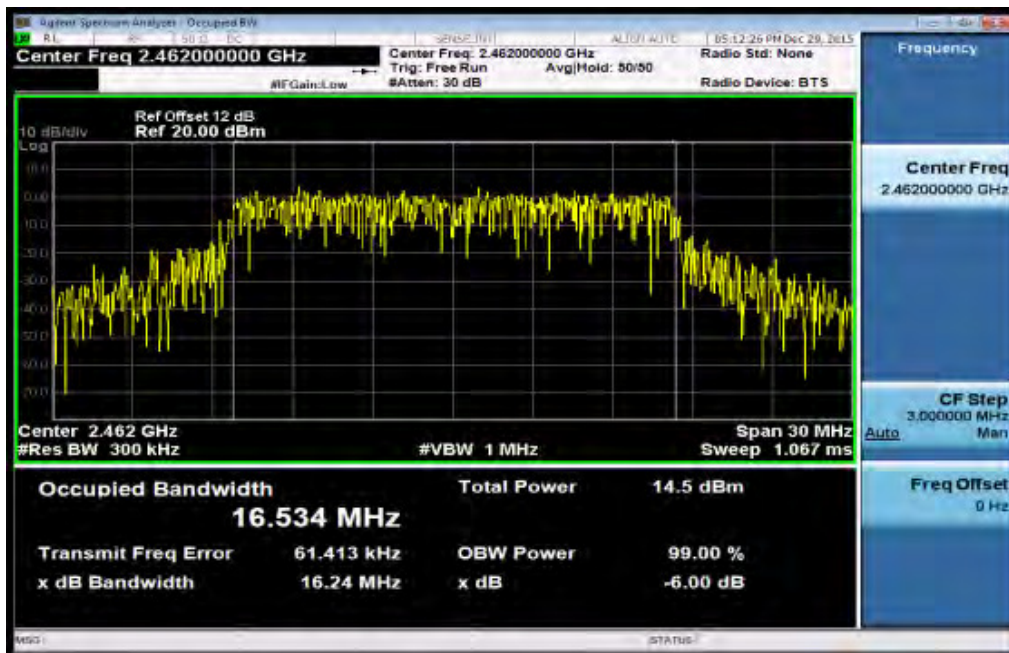
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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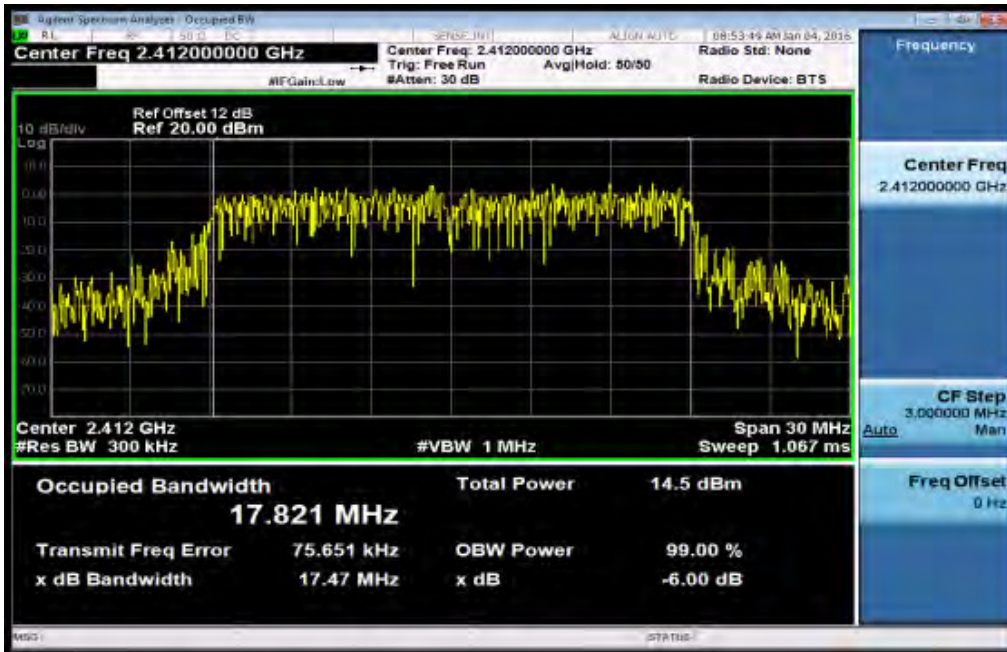
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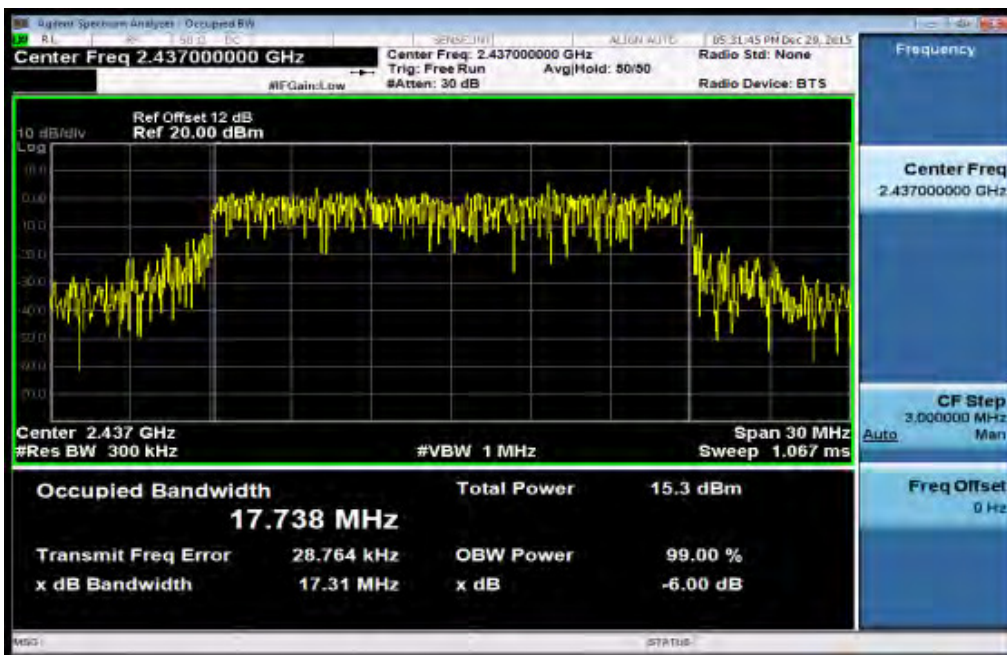
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802.11n_20M

99% Band Width Test Data CH-Low



99% Band Width Test Data CH-Mid



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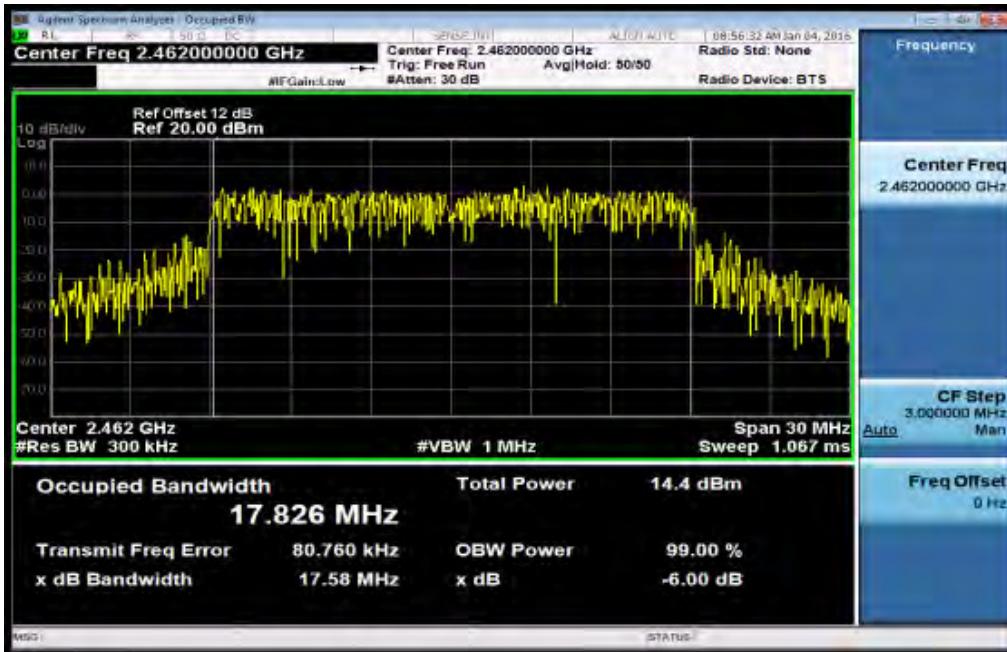
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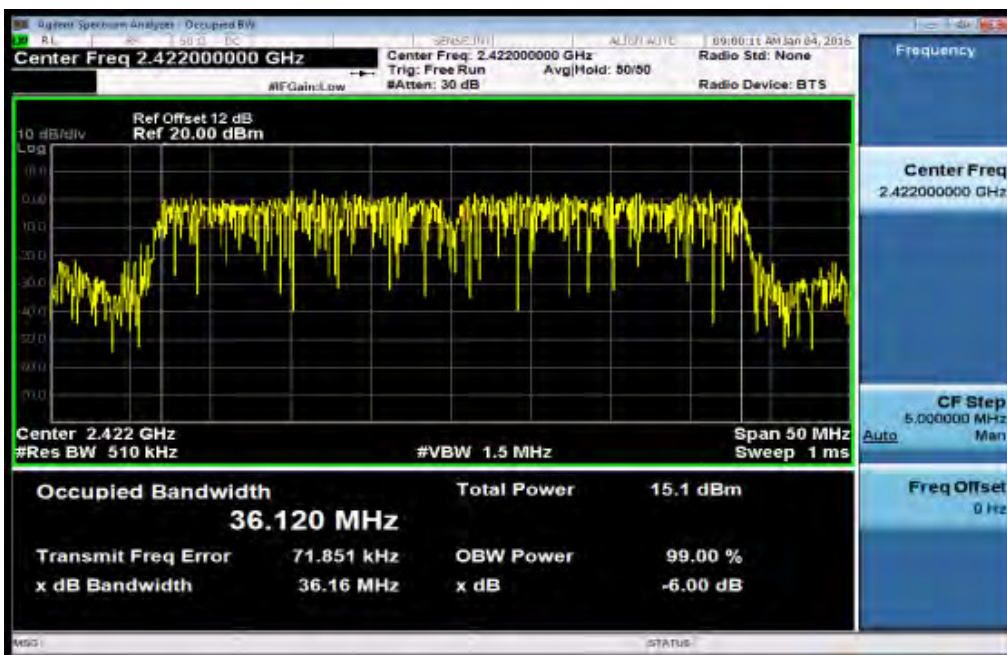
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99% Band Width Test Data CH-High



802.11n_40M

99% Band Width Test Data CH-Low



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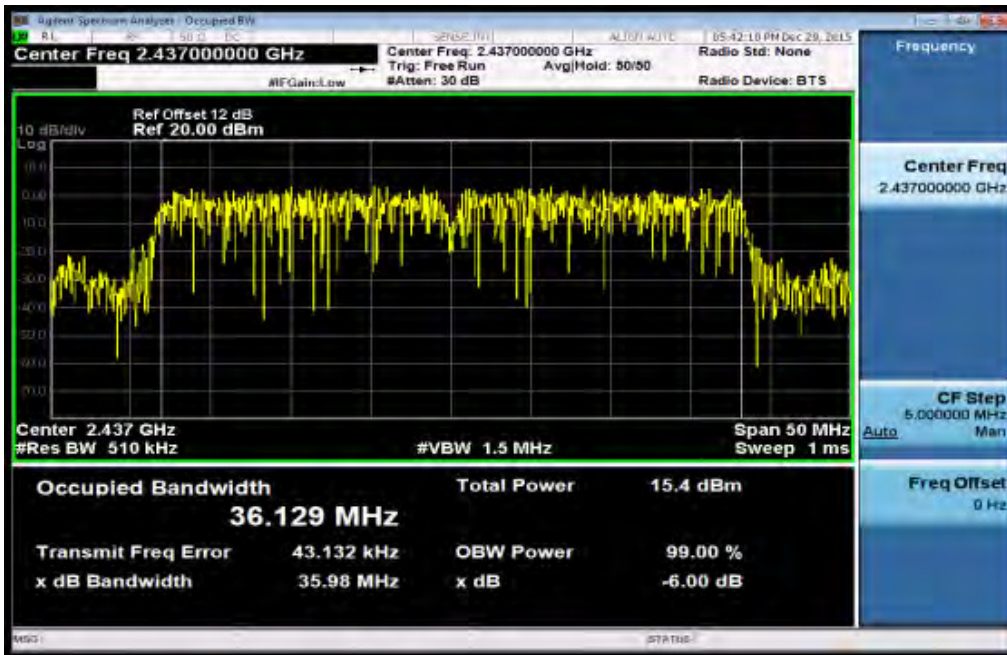
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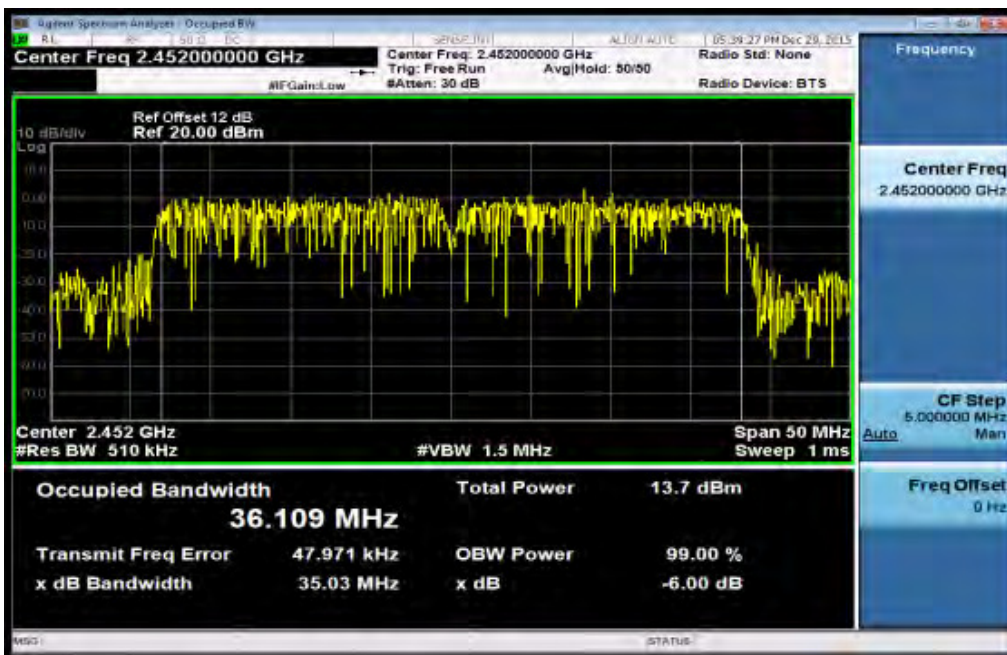
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99% Band Width Test Data CH-Mid



99% Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

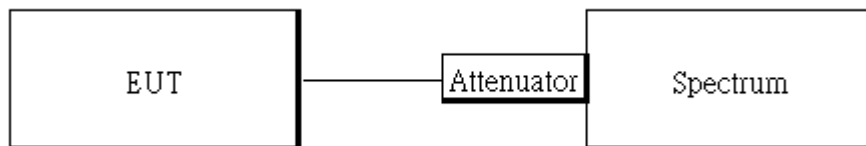
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

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

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBDA	RFLT2W1G18 G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
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 V03r04.
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

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

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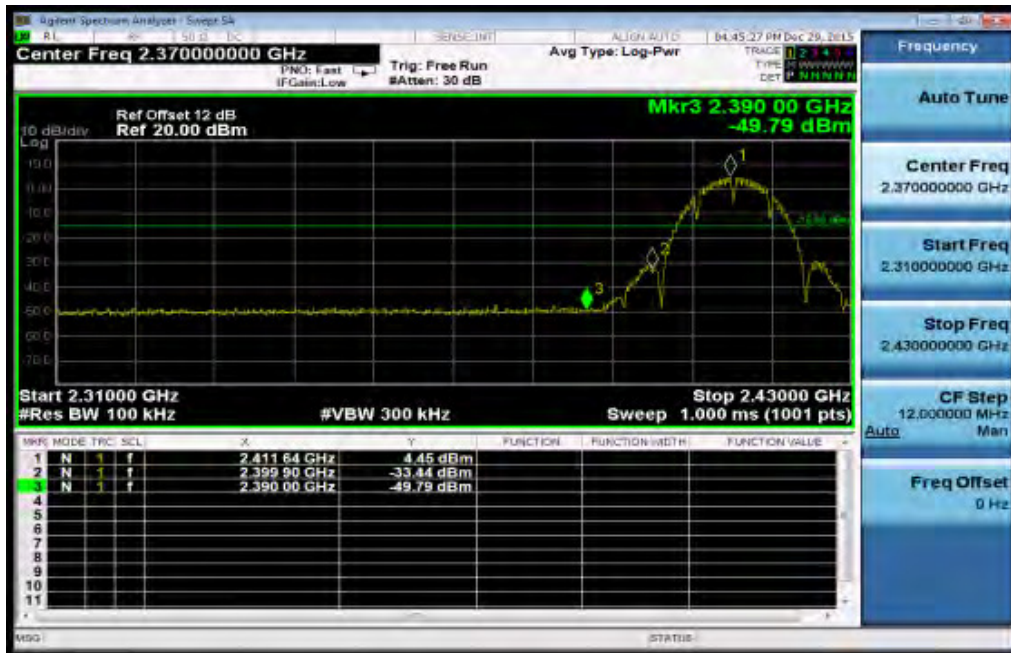
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802.11b
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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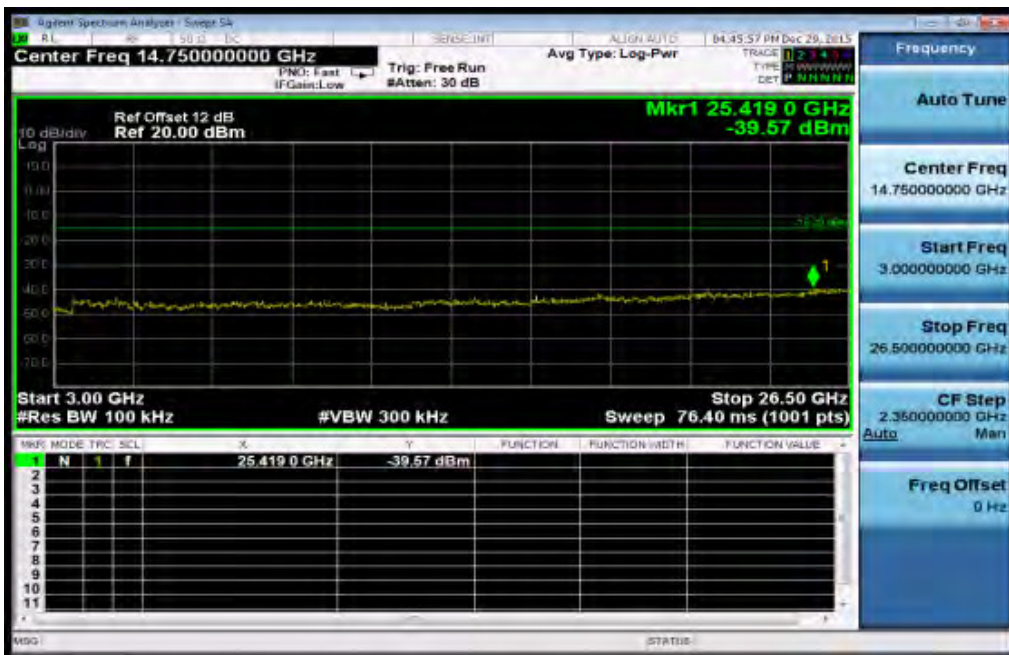
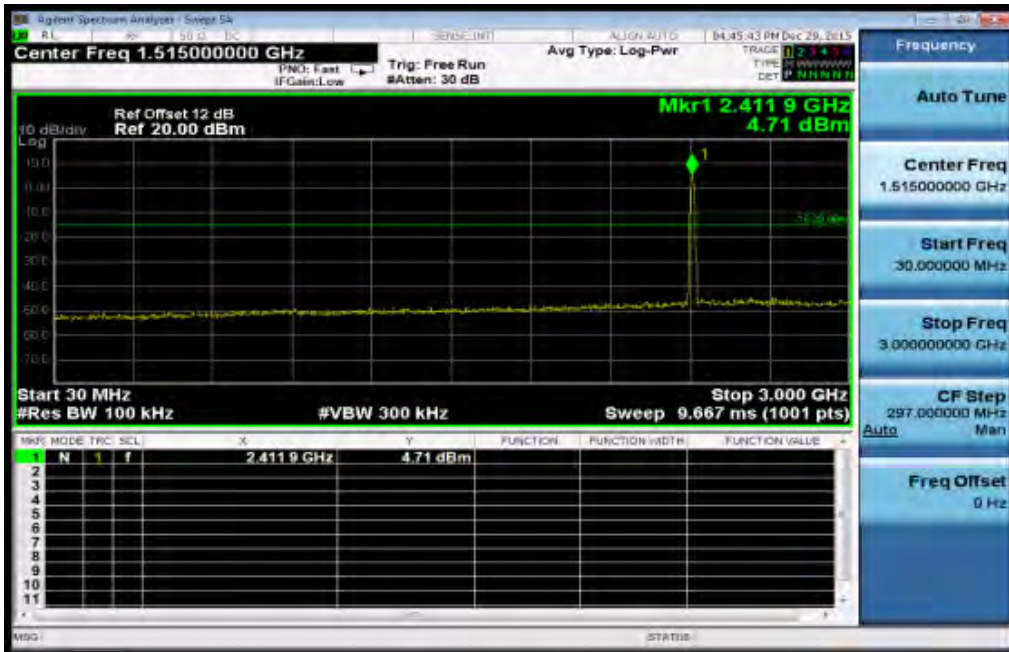
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802.11b
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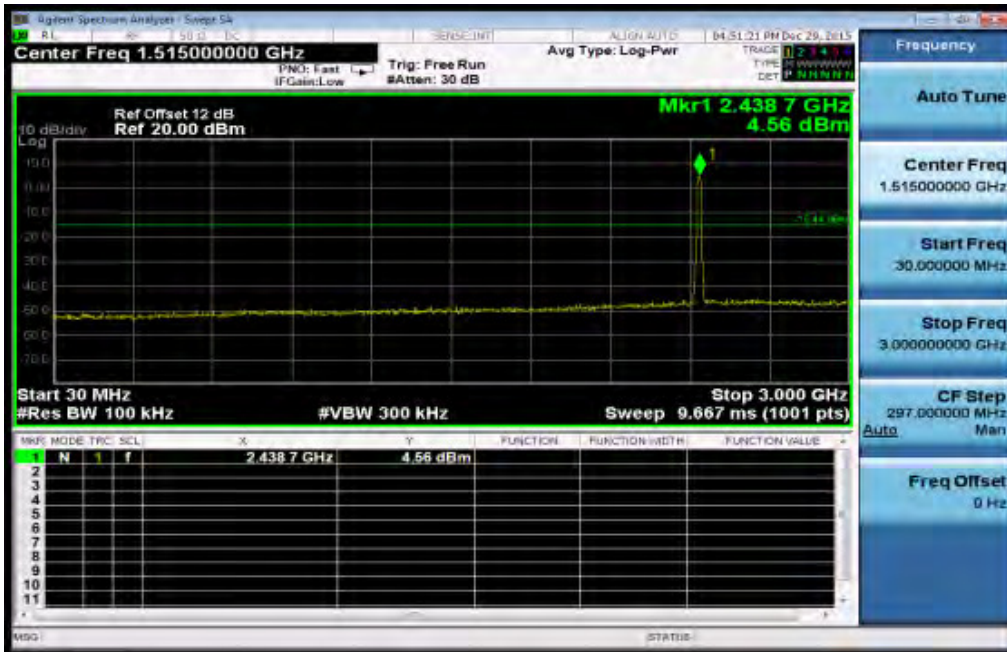
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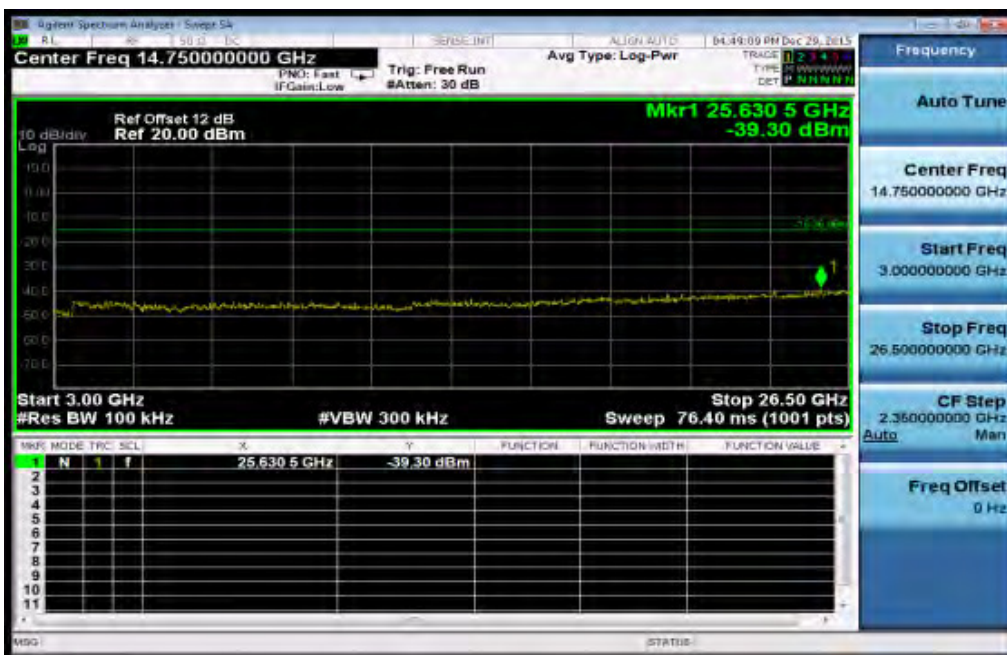
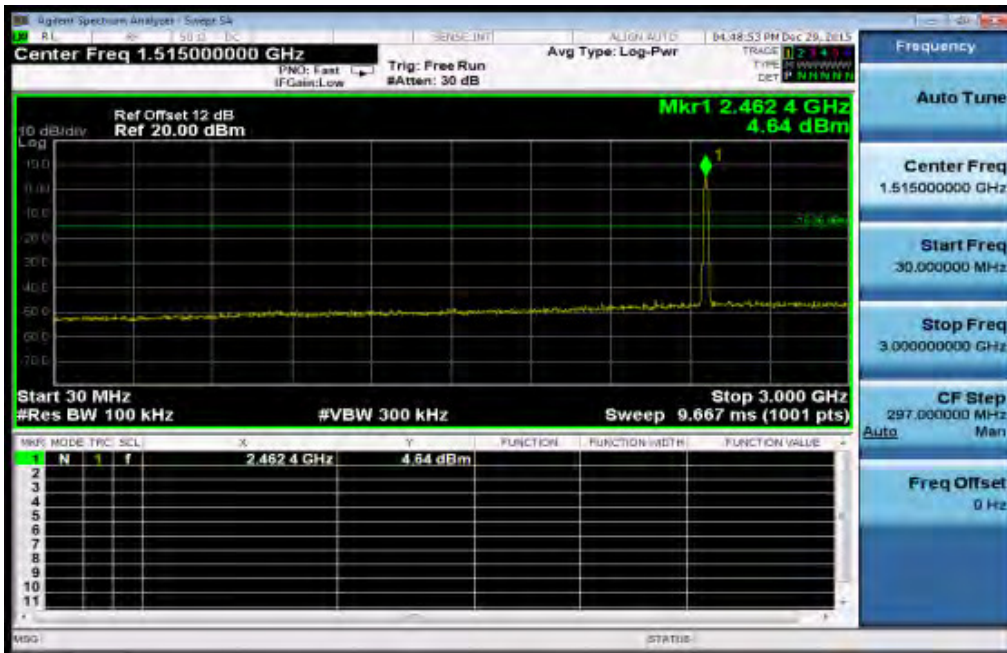
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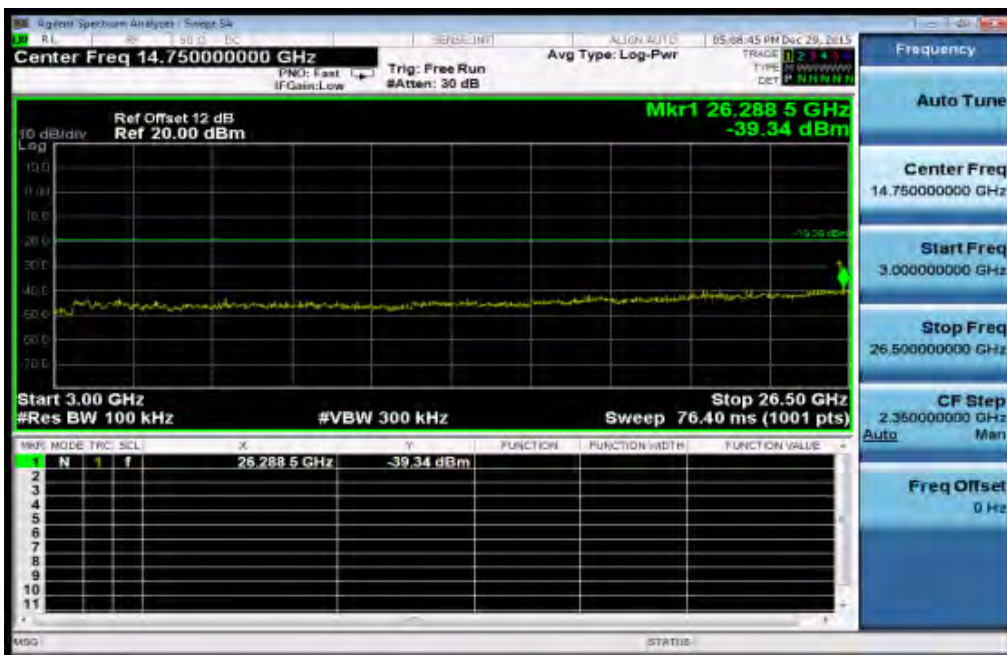
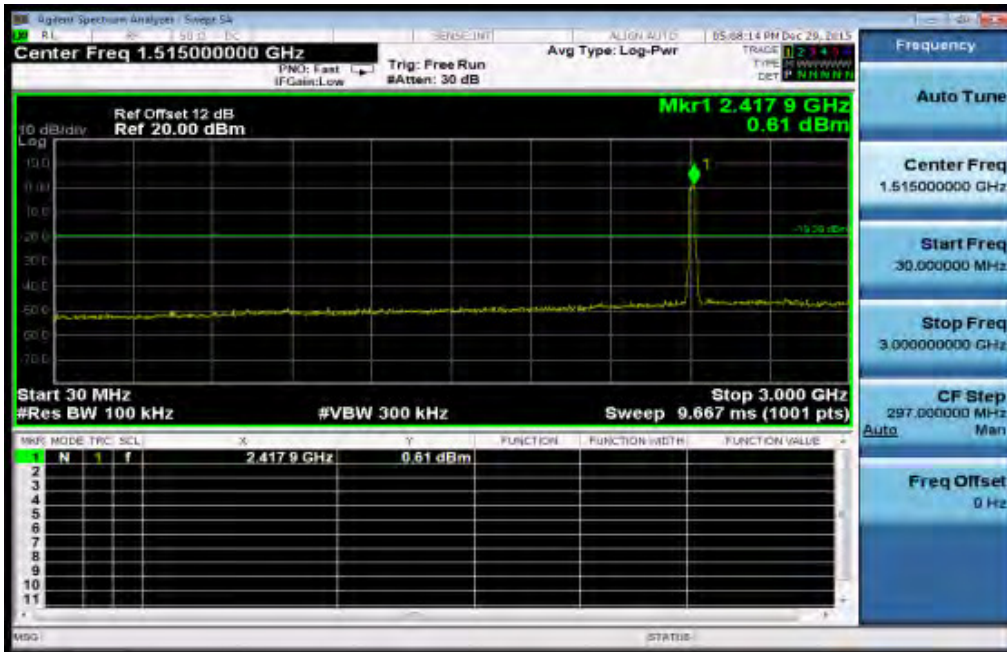
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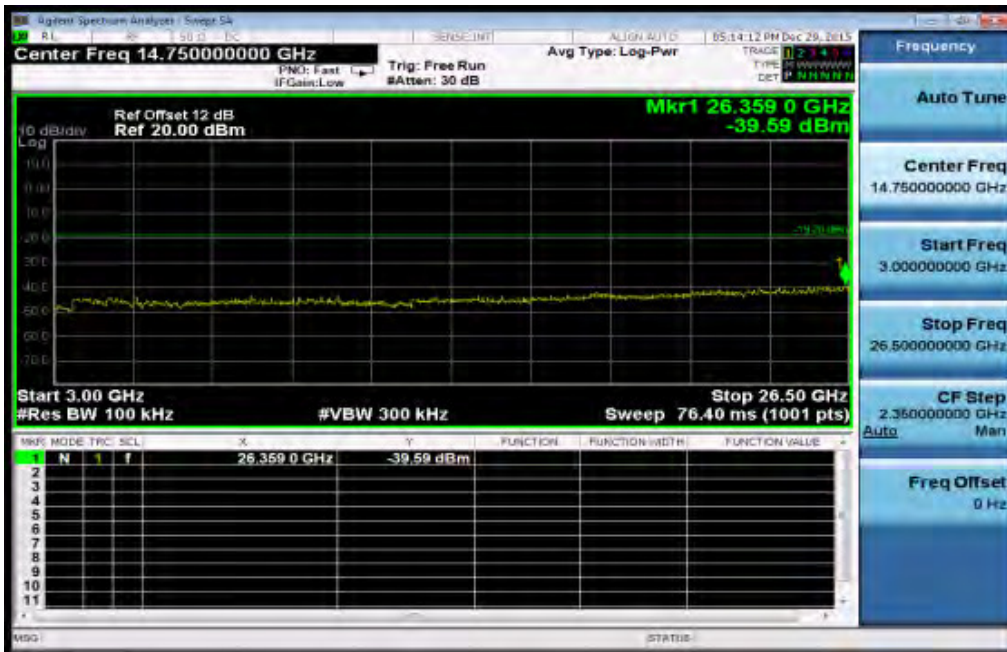
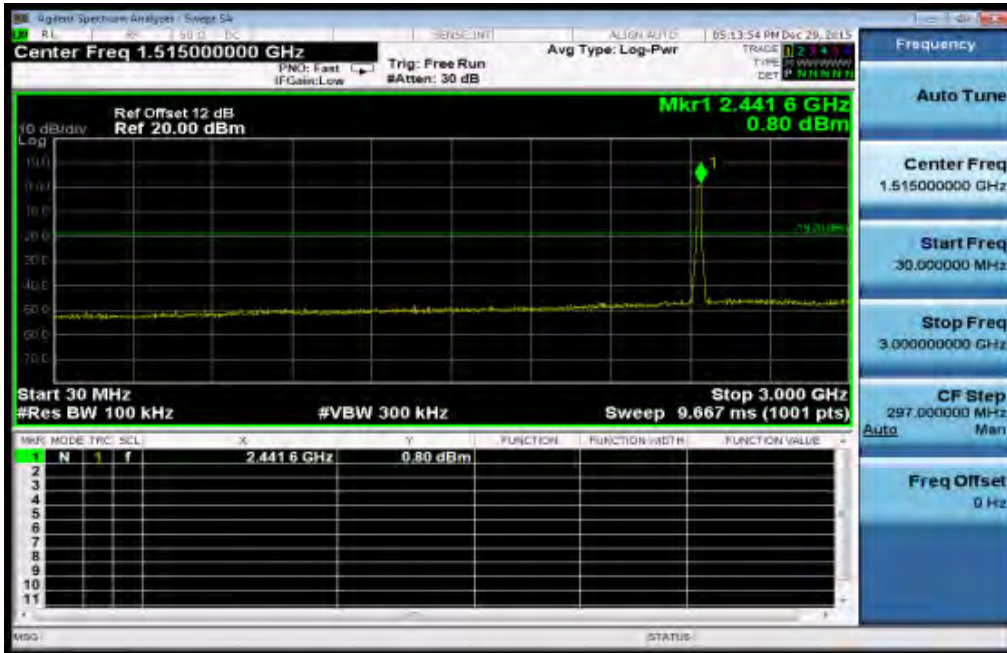
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Spurious Emission Test Data CH-Mid



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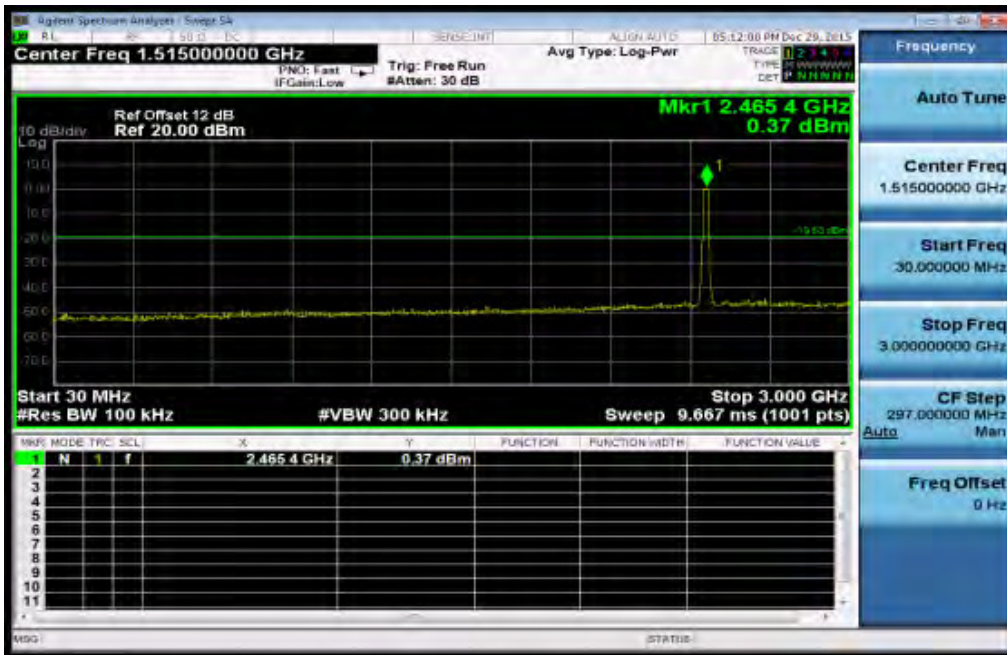
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802.11n_HT20
Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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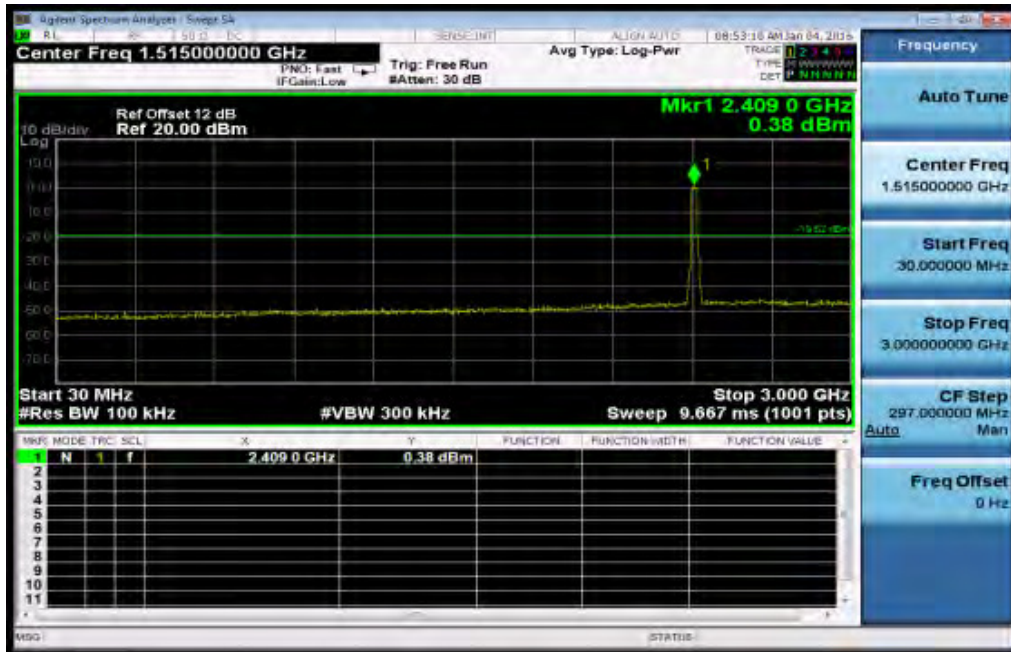
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802.11n_HT20
Spurious Emission Test Data CH-Low



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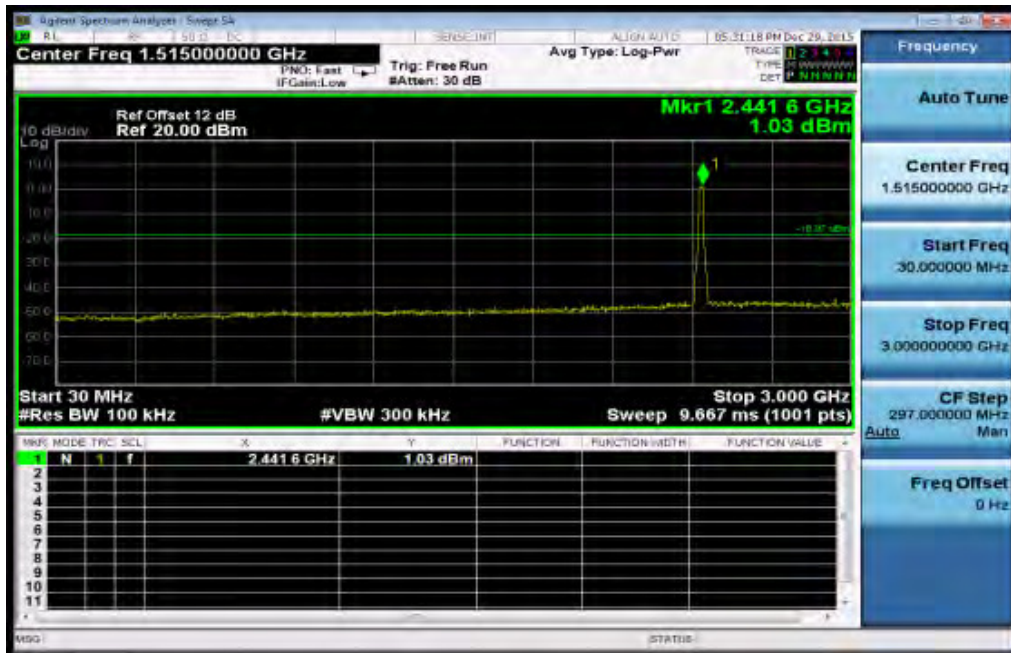
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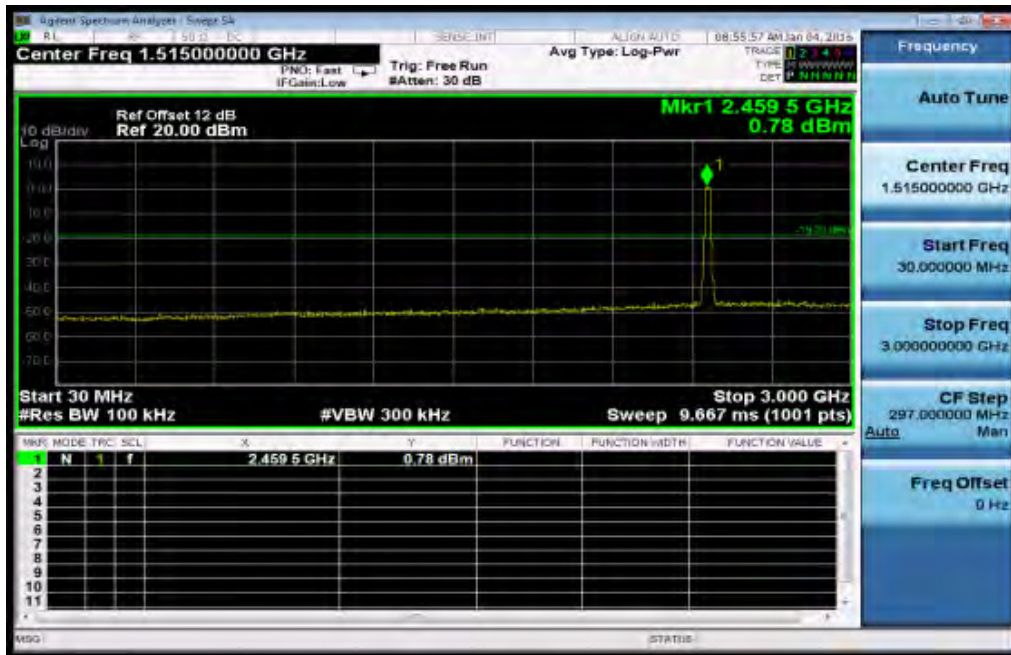
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802.11n_HT40

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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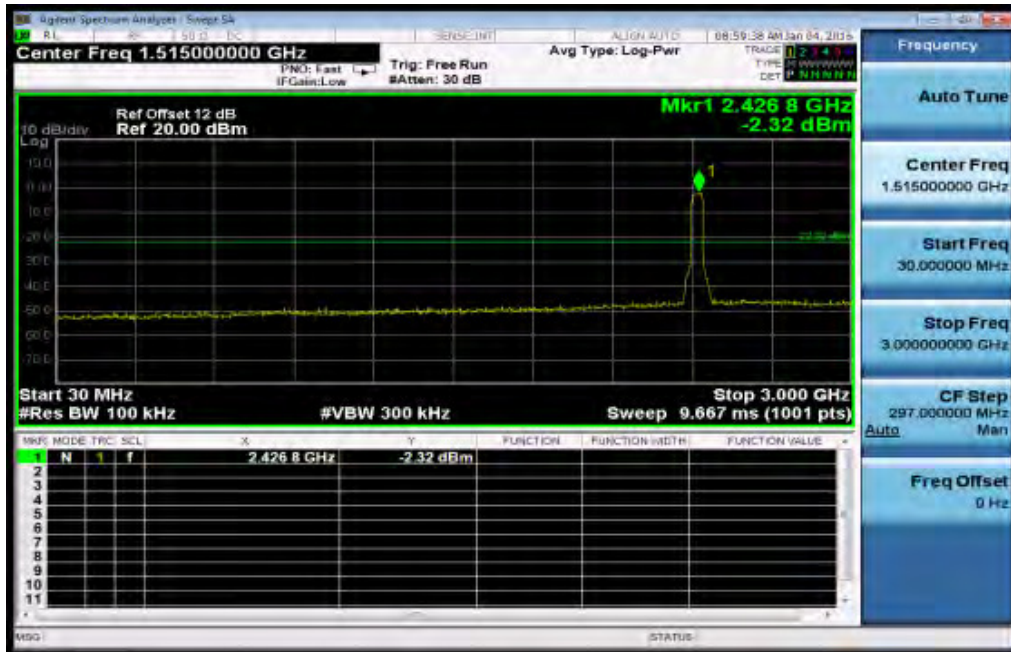
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Spurious Emission Test Data CH-Low

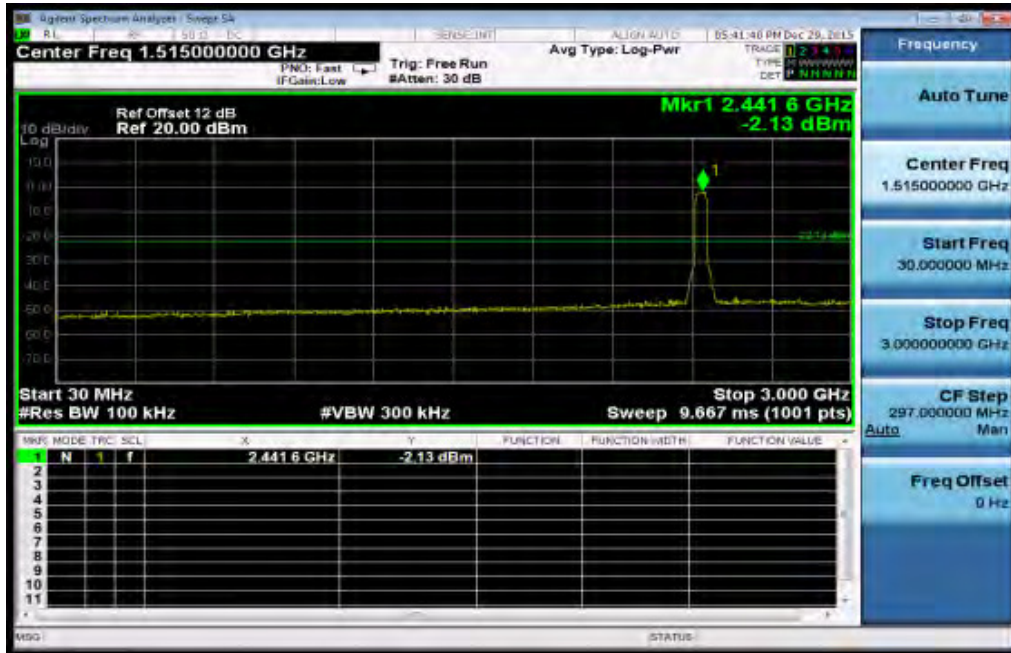


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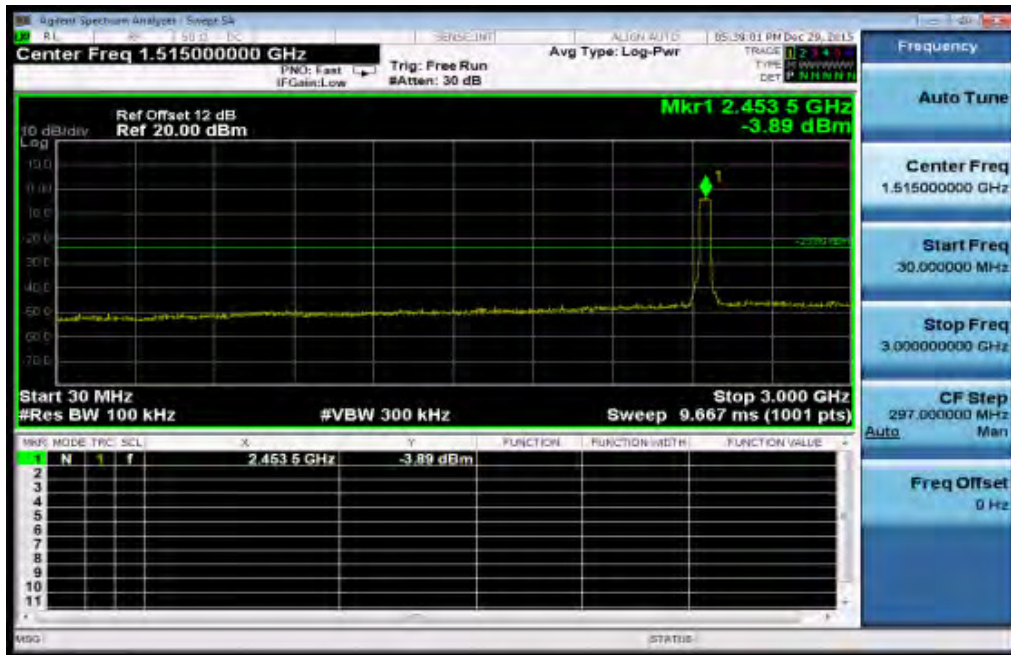
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Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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

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

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (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	04/09/2015	04/08/2016
Loop Antenna	ETS-Lindgren	6502	00143303	12/09/2015	12/08/2016
Broadband Antenna	TESEQ	CBL 6112D	35240	10/28/2015	10/27/2016
Horn Antenna	ETS-Lindgren	3117	00143272	12/08/2015	12/07/2016
Horn Antenna	Schwarzbeck	BBHA9170	185	07/25/2015	07/24/2016
Pre Amplifier	EMC Instruments	EMC330	980096	12/12/2015	12/11/2016
Pre Amplifier	EMC Instruments	EMC0011830	980199	12/12/2015	12/11/2016
Pre Amplifier	R&S	SCU-18	10204	12/12/2015	12/11/2016
Pre Amplifier	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	03/04/2015	03/03/2016
Site VSWR	SGS	966 Chamber C	SAC-C	03/04/2015	03/03/2016
DC Power Supply	HOLA	DP-3003	D7070035	05/04/2015	05/03/2016
Controller	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Test Software	World-Pallas	Dr. E	V 3.0 Lite	N.C.R.	N.C.R.

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

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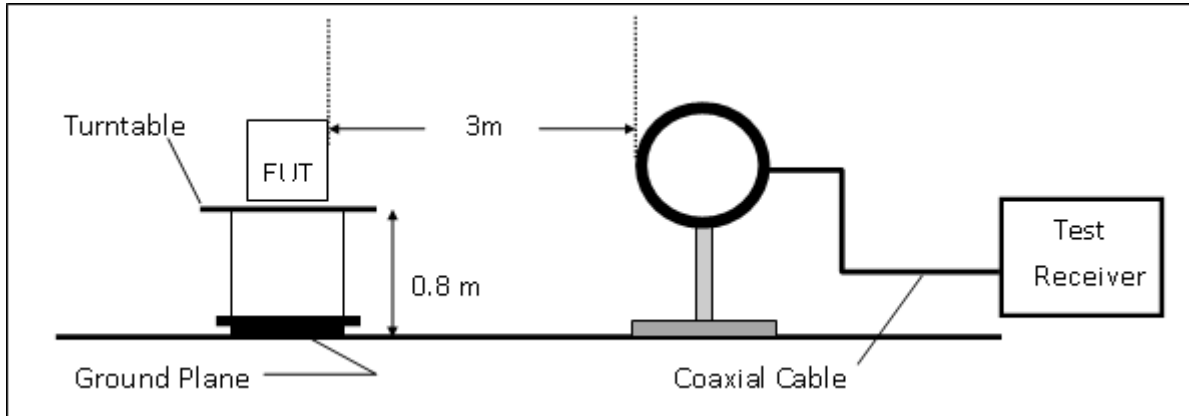
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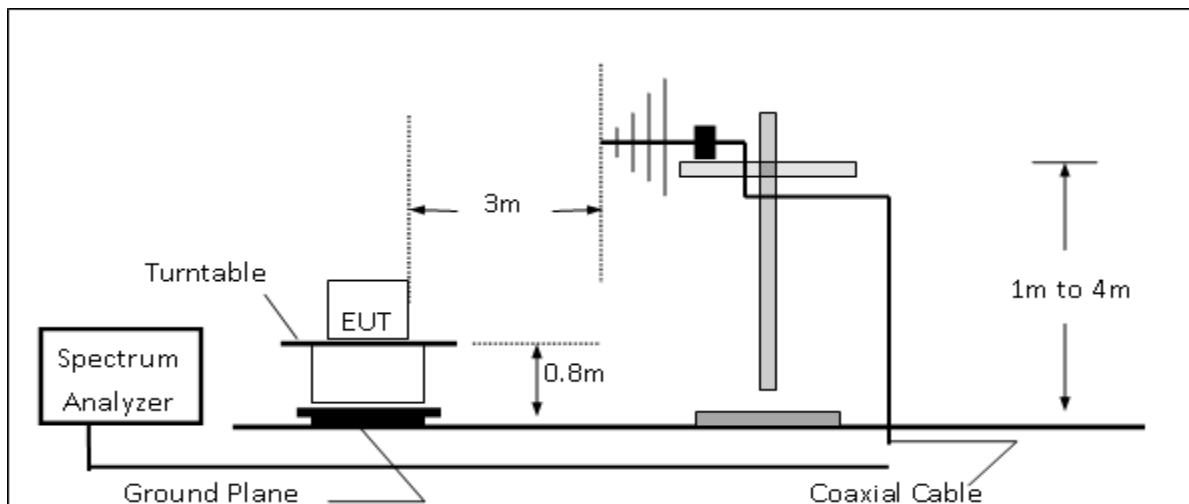
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11.3 Test SET-UP

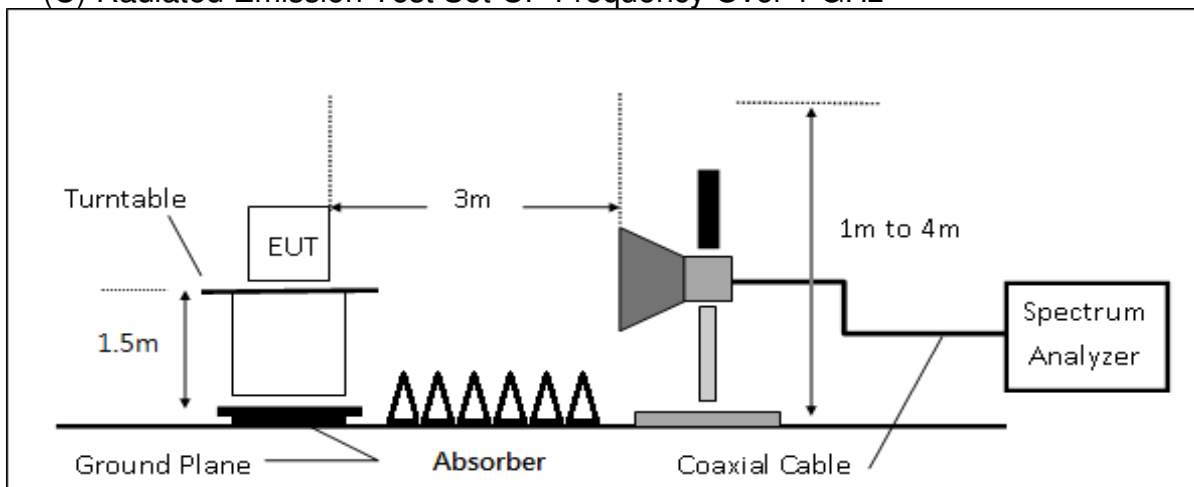
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency 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 V03r04.
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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Radiated Band Edge Measurement Result (802.11b)

Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	54.75	-6.84	47.90	74	-26.10
2390.00	E	Average	42.46	-6.84	35.62	54	-18.38

Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	57.49	-6.84	50.65	74	-23.35
2390.00	E	Average	46.28	-6.84	39.44	54	-14.56

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Operation Mode : 802.11b Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	55.39	-6.38	49.00	74	-25.00
2483.50	E	Average	43.18	-6.38	36.80	54	-17.20

Operation Mode : 802.11b Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	58.79	-6.38	52.40	74	-21.60
2483.50	E	Average	48.16	-6.38	41.78	54	-12.22

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode : 802.11g Test Date : 2015/12/29
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH Low Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	71.25	-6.84	64.41	74	-9.59
2390.00	E	Average	50.66	-6.84	43.82	54	-10.18

Operation Mode : 802.11g Test Date : 2015/12/29
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH Low Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	78.04	-6.84	71.19	74	-2.81
2390.00	E	Average	57.53	-6.84	50.69	54	-3.31

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Operation Mode : 802.11g Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	67.31	-6.38	60.92	74	-13.08
2483.50	E	Average	50.22	-6.38	43.84	54	-10.16

Operation Mode : 802.11g Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	76.06	-6.38	69.67	74	-4.33
2483.50	E	Average	58.19	-6.38	51.81	54	-2.19

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	76.29	-6.84	69.44	74	-4.56
2390.00	E	Average	50.85	-6.84	44.01	54	-9.99

Operation Mode :	802.11n20	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	76.47	-6.84	69.63	74	-4.37
2390.00	E	Average	59.28	-6.84	52.44	54	-1.56

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Operation Mode : 802.11n20 Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	70.19	-6.38	63.81	74	-10.19
2483.50	E	Average	51.57	-6.38	45.19	54	-8.81

Operation Mode : 802.11n20 Test Date : 2015/12/29
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	79.67	-6.38	73.29	74	-0.71
2483.50	E	Average	60.13	-6.38	53.75	54	-0.25

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Radiated Band Edge Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2015/12/29
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	57.01	-6.84	50.17	74	-23.83
2390.00	E	Average	43.77	-6.84	36.93	54	-17.07

Operation Mode :	802.11n40	Test Date :	2015/12/29
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	BE CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	E	Peak	62.78	-6.84	55.93	74	-18.07
2390.00	E	Average	48.81	-6.84	41.97	54	-12.03

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Operation Mode : 802.11n40 Test Date : 2015/12/29
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	70.64	-6.38	64.26	74	-9.74
2483.50	E	Average	56.36	-6.38	49.98	54	-4.02

Operation Mode : 802.11n40 Test Date : 2016/1/4
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : BE CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	E	Peak	66.04	-6.38	59.66	74	-14.34
2483.50	E	Average	50.79	-6.38	44.41	54	-9.59

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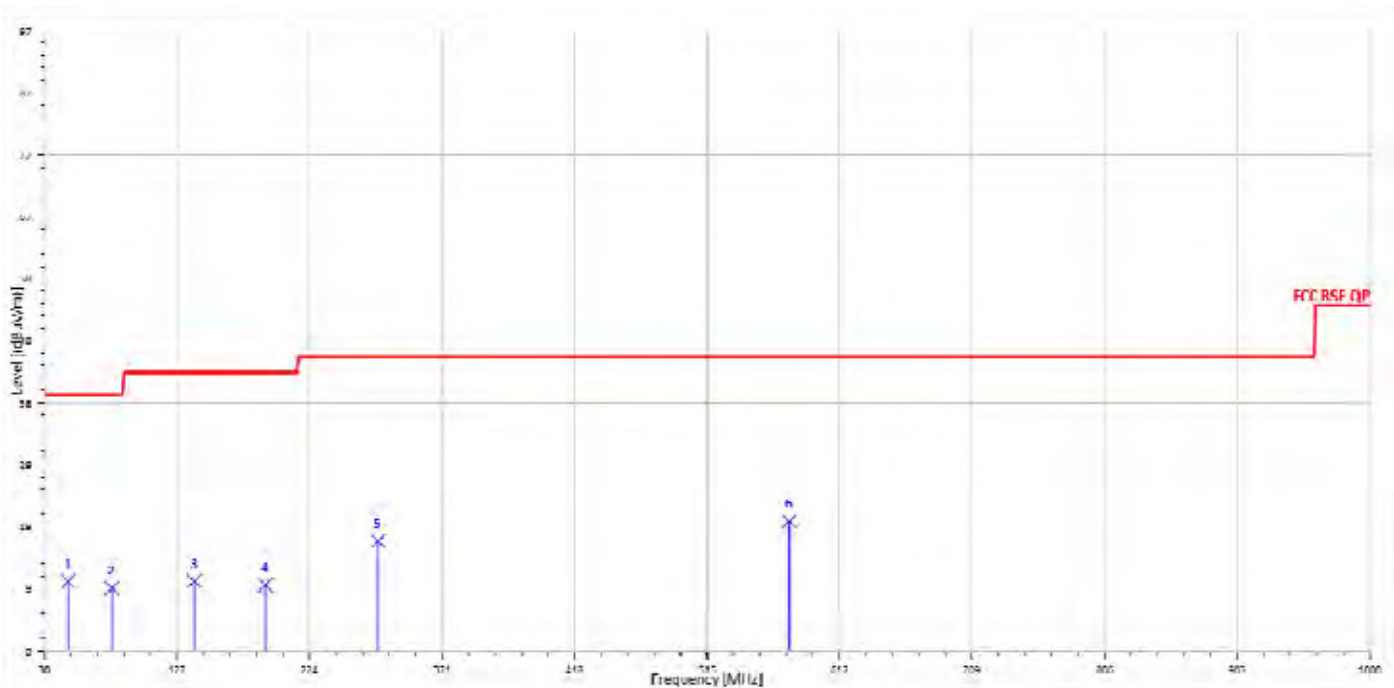
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/1/11
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
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
47.46	S	Peak	34.16	-23.41	10.75	40	-29.25
79.47	S	Peak	37.48	-27.72	9.76	40	-30.24
139.61	S	Peak	33.88	-23.08	10.80	43.5	-32.70
191.99	S	Peak	35.33	-25.11	10.22	43.5	-33.28
274.44	S	Peak	39.36	-22.22	17.14	46	-28.86
575.14	S	Peak	35.26	-15.00	20.26	46	-25.74

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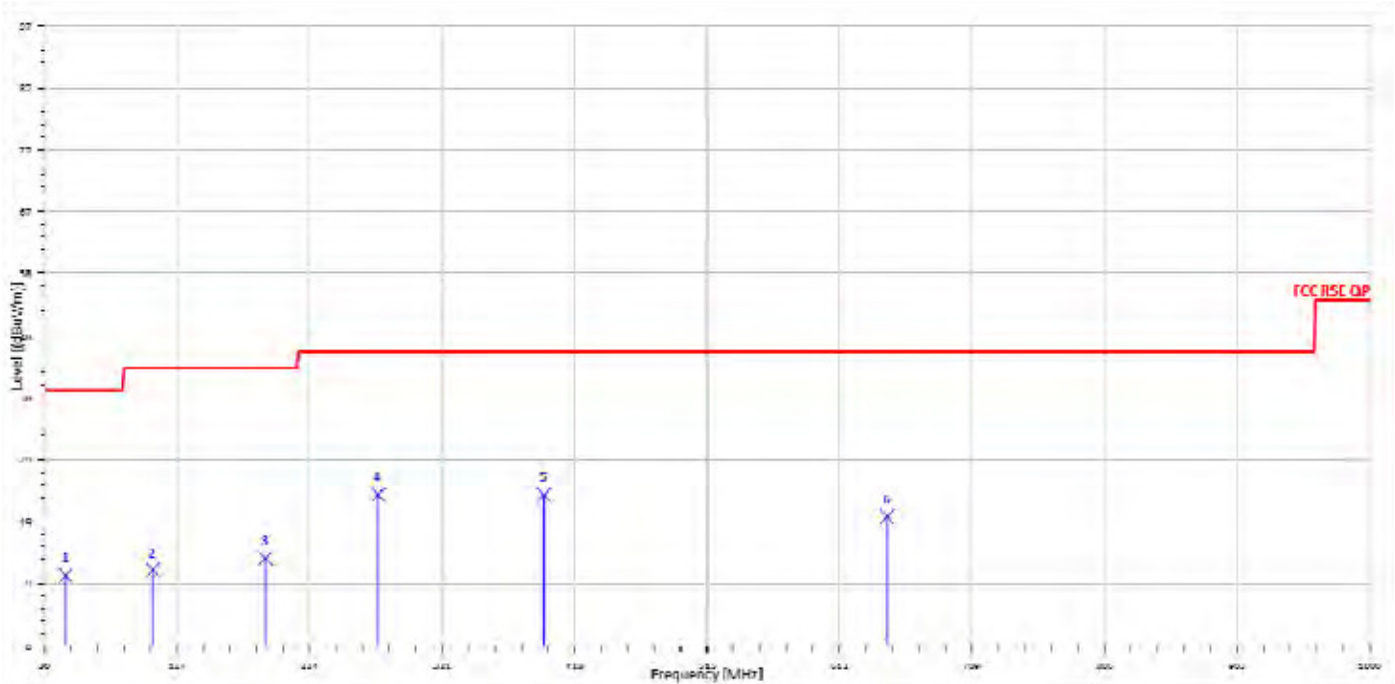
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
45.52	S	Peak	34.19	-23.16	11.03	40	-28.97
109.54	S	Peak	37.59	-25.68	11.91	43.5	-31.59
191.99	S	Peak	38.84	-25.11	13.74	43.5	-29.76
274.44	S	Peak	45.87	-22.22	23.65	46	-22.35
395.69	S	Peak	42.52	-18.91	23.62	46	-22.38
646.92	S	Peak	33.66	-13.46	20.20	46	-25.80

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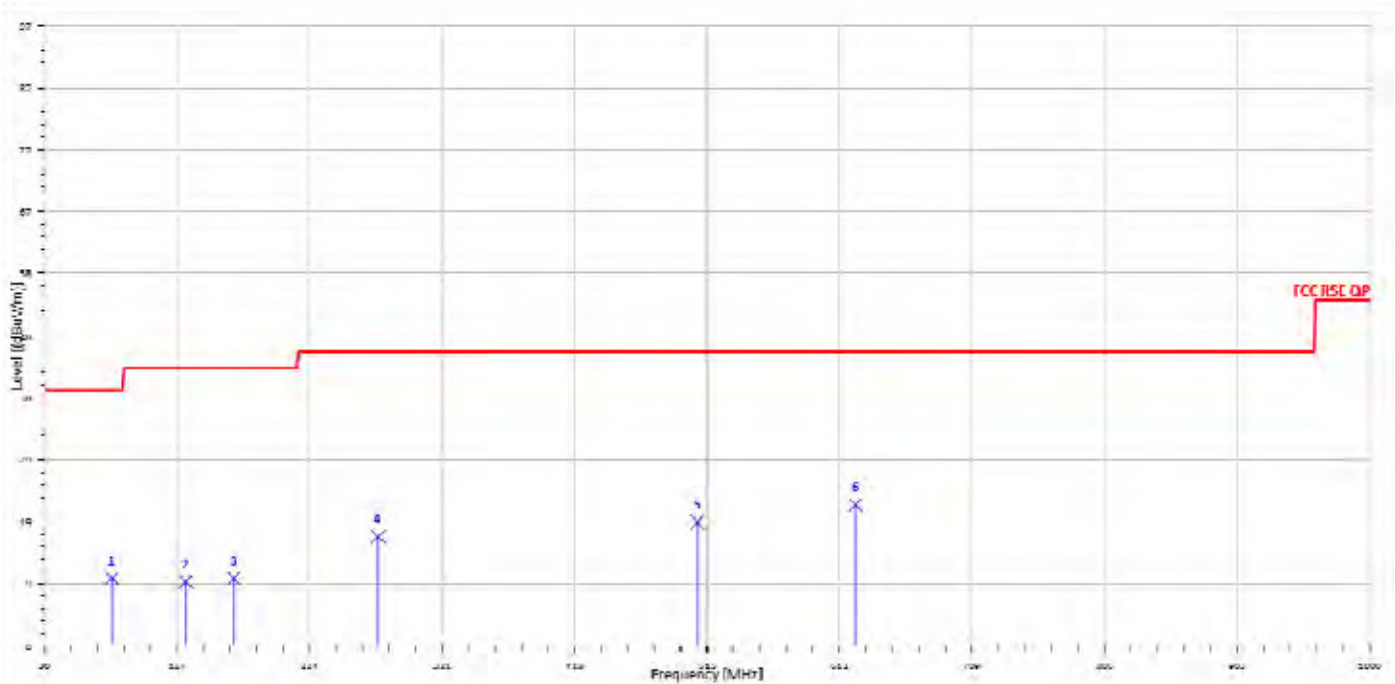
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
79.47	S	Peak	38.32	-27.72	10.60	40	-29.40
133.79	S	Peak	34.11	-24.03	10.08	43.5	-33.42
168.71	S	Peak	33.83	-23.26	10.57	43.5	-32.93
274.44	S	Peak	39.31	-22.22	17.09	46	-28.91
508.21	S	Peak	36.36	-17.00	19.36	46	-26.64
623.64	S	Peak	36.87	-14.75	22.12	46	-23.88

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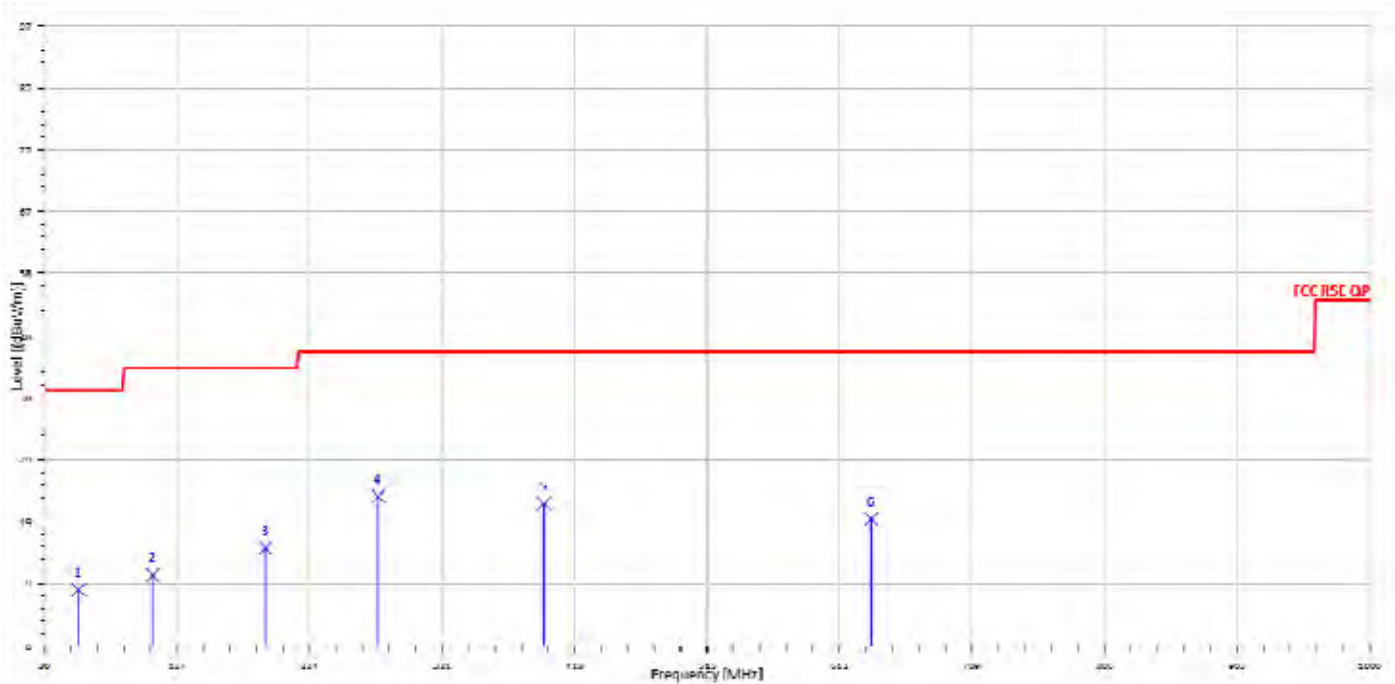
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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	32.92	-24.16	8.76	40	-31.24
109.54	S	Peak	36.74	-25.68	11.06	43.5	-32.44
191.99	S	Peak	40.45	-25.11	15.34	43.5	-28.16
274.44	S	Peak	45.63	-22.22	23.41	46	-22.59
395.69	S	Peak	41.18	-18.91	22.28	46	-23.72
635.28	S	Peak	33.79	-13.96	19.84	46	-26.16

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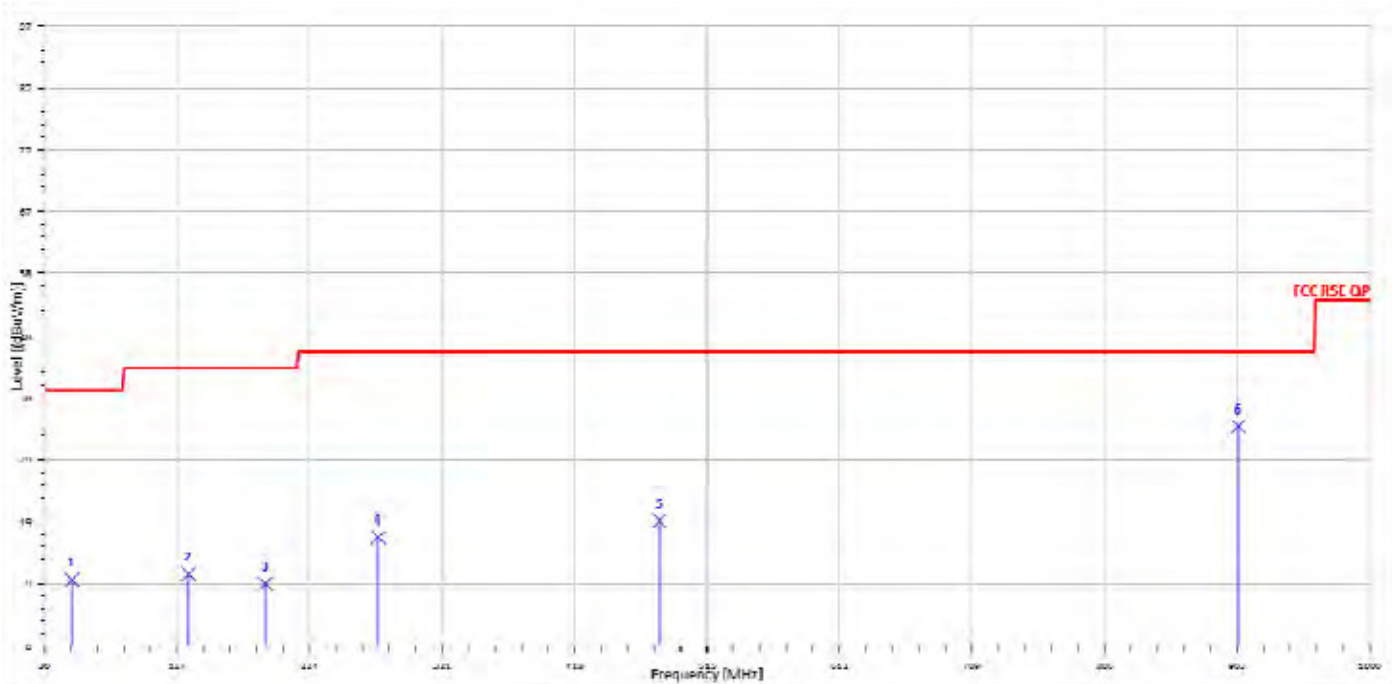
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
50.37	S	Peak	34.12	-23.77	10.35	40	-29.65
135.73	S	Peak	34.93	-23.72	11.22	43.5	-32.28
191.99	S	Peak	34.83	-25.11	9.72	43.5	-33.78
274.44	S	Peak	39.21	-22.22	16.99	46	-29.01
480.08	S	Peak	36.61	-17.03	19.57	46	-26.43
903.97	S	Peak	44.41	-10.06	34.35	46	-11.65

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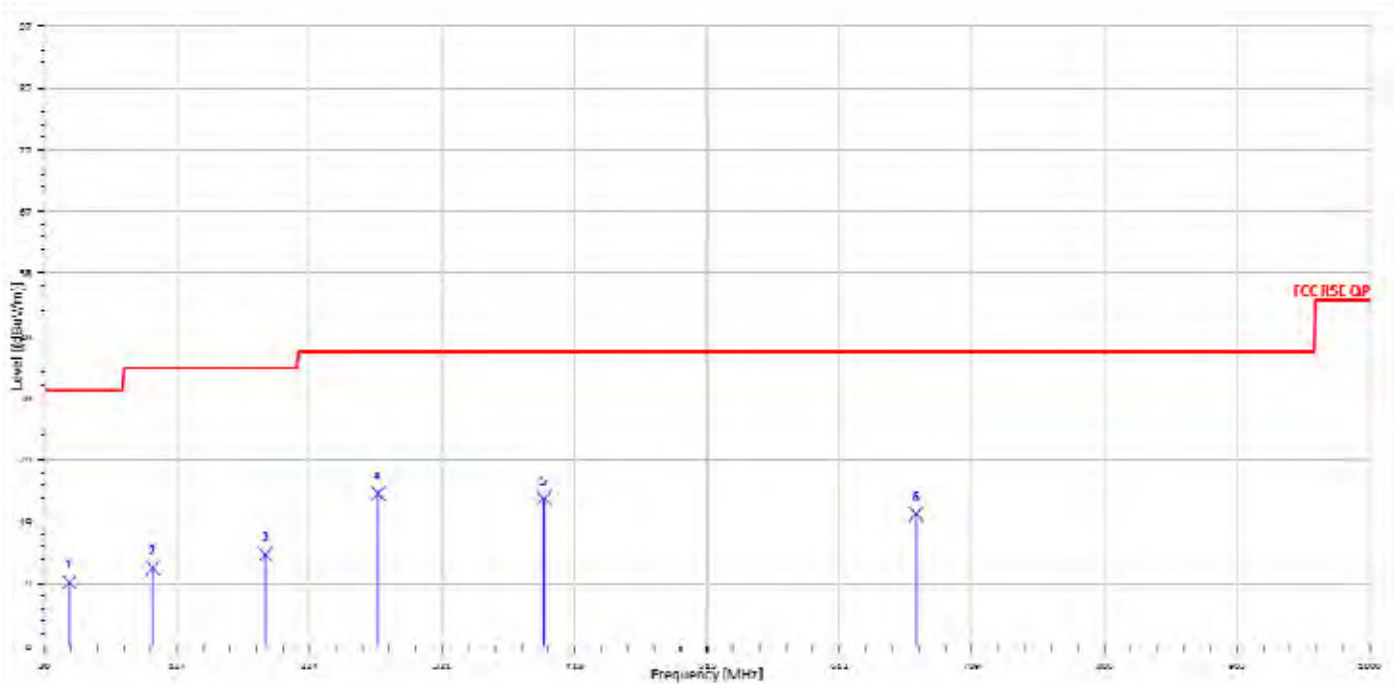
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
48.43	S	Peak	33.51	-23.54	9.98	40	-30.02
109.54	S	Peak	37.86	-25.68	12.18	43.5	-31.32
191.99	S	Peak	39.45	-25.11	14.34	43.5	-29.16
274.44	S	Peak	46.03	-22.22	23.80	46	-22.20
395.69	S	Peak	42.01	-18.91	23.11	46	-22.89
668.26	S	Peak	34.73	-14.11	20.61	46	-25.39

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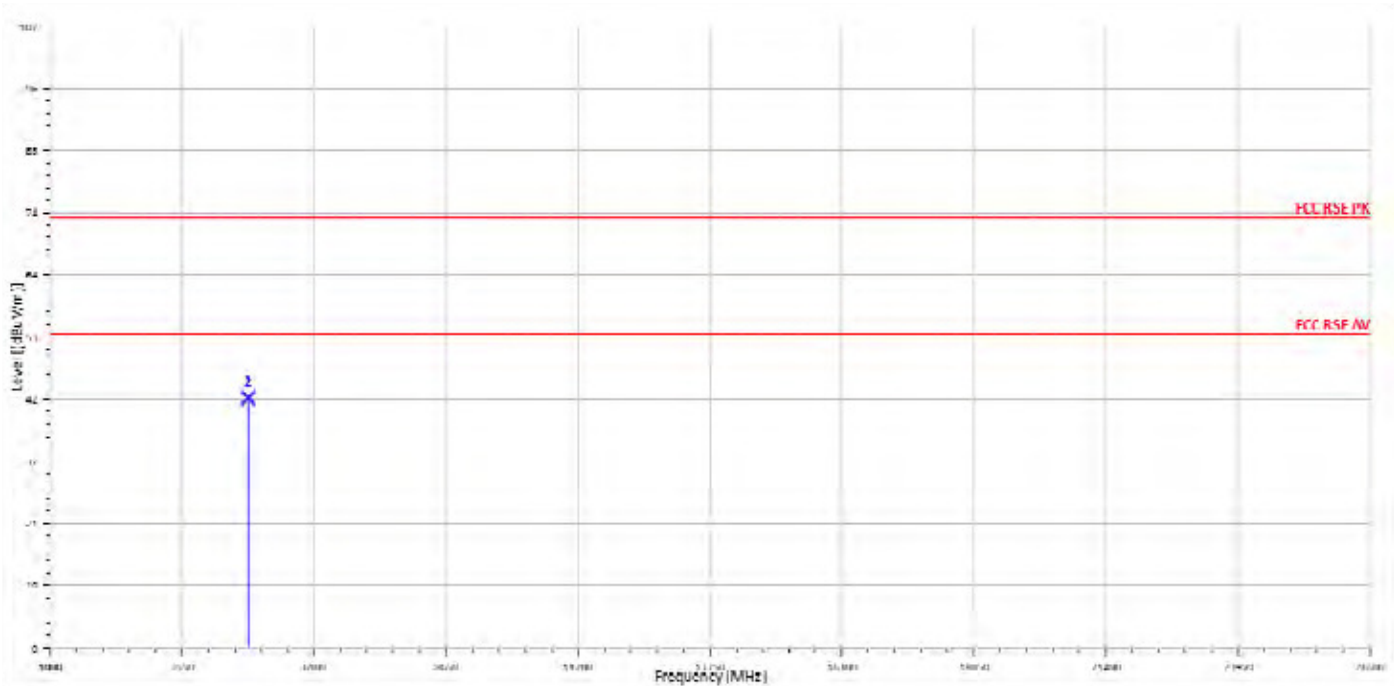
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
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	44.22	-1.04	43.18	74	-30.82
4824.00	H	Average	43.82	-1.04	42.78	54	-11.22

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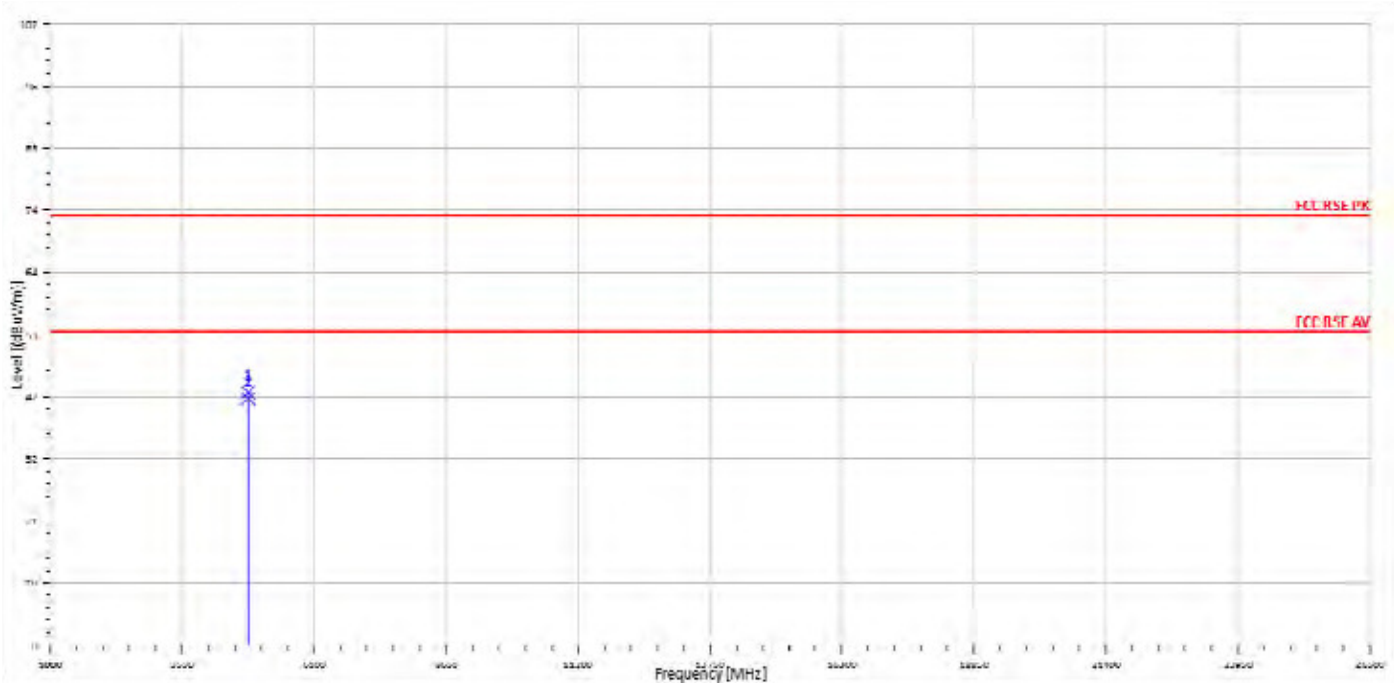
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Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	44.56	-1.04	43.52	74	-30.48
4824.00	H	Average	43.46	-1.04	42.42	54	-11.58

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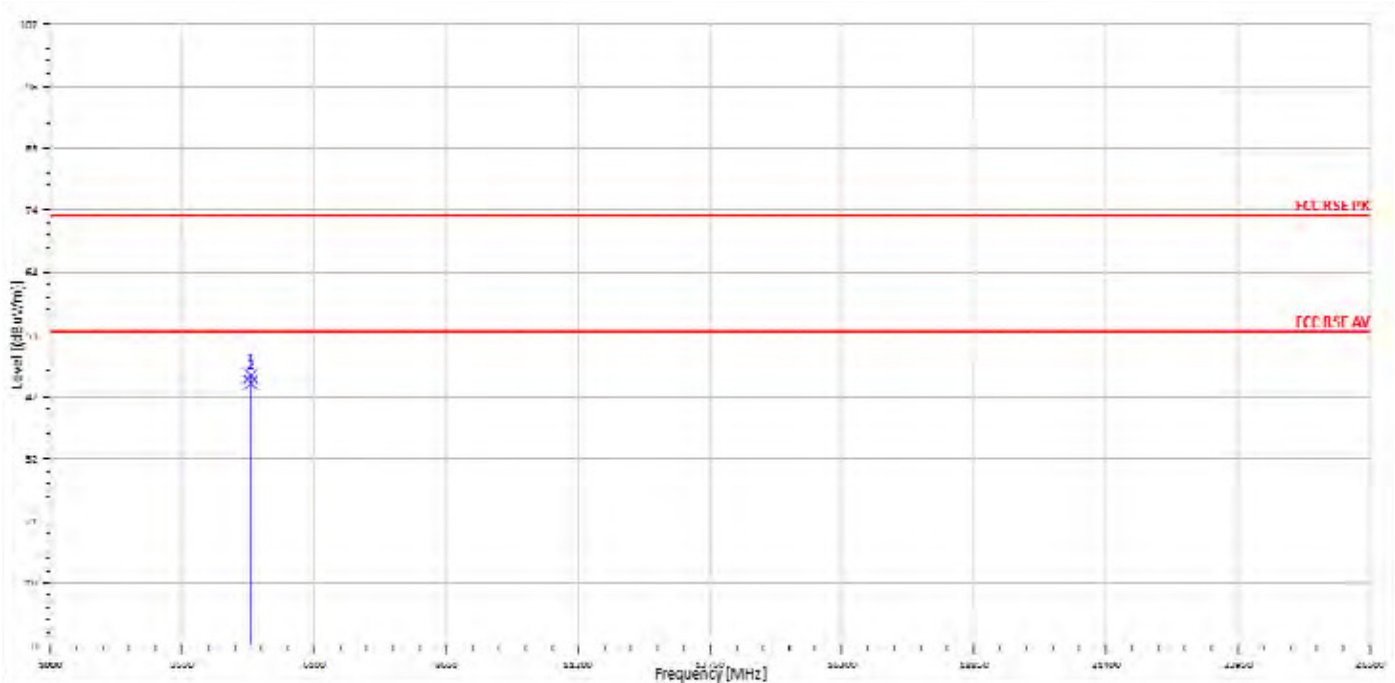
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Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	47.11	-0.75	46.36	74	-27.64
4874.00	H	Average	45.93	-0.75	45.18	54	-8.82

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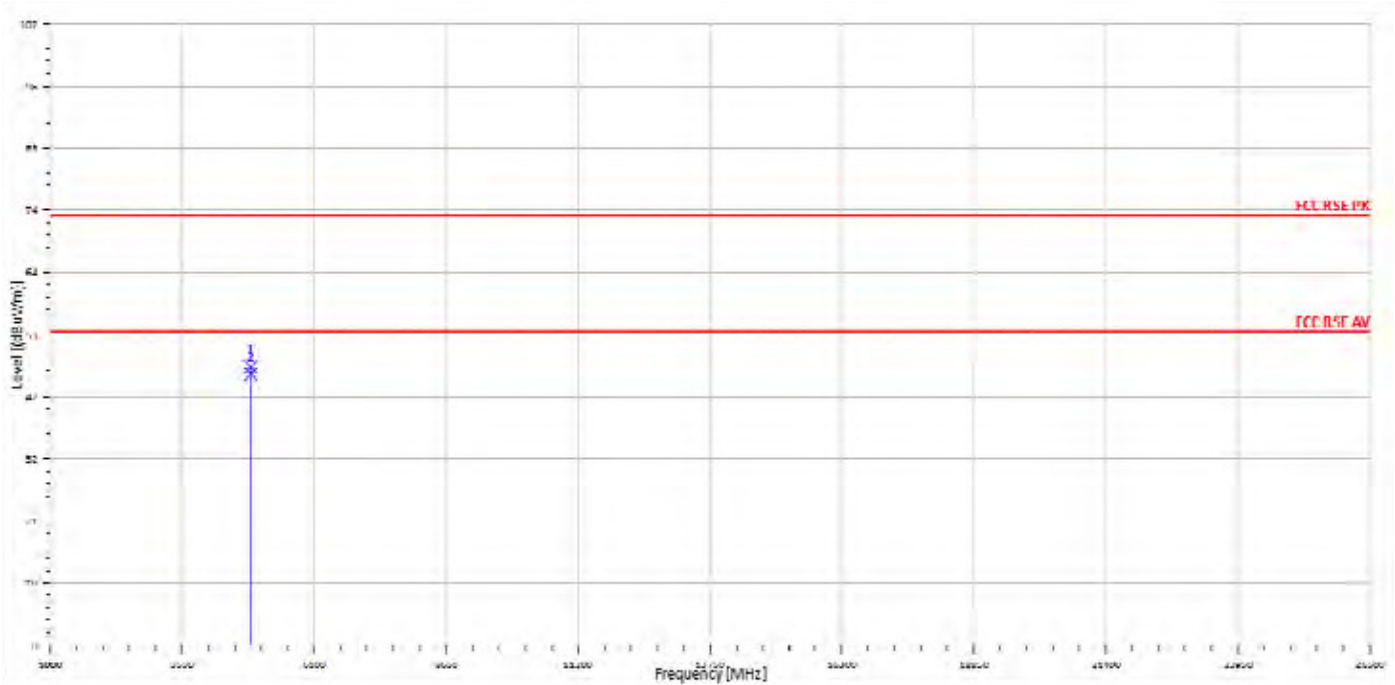
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Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	48.58	-0.75	47.84	74	-26.16
4874.00	H	Average	47.42	-0.75	46.67	54	-7.33

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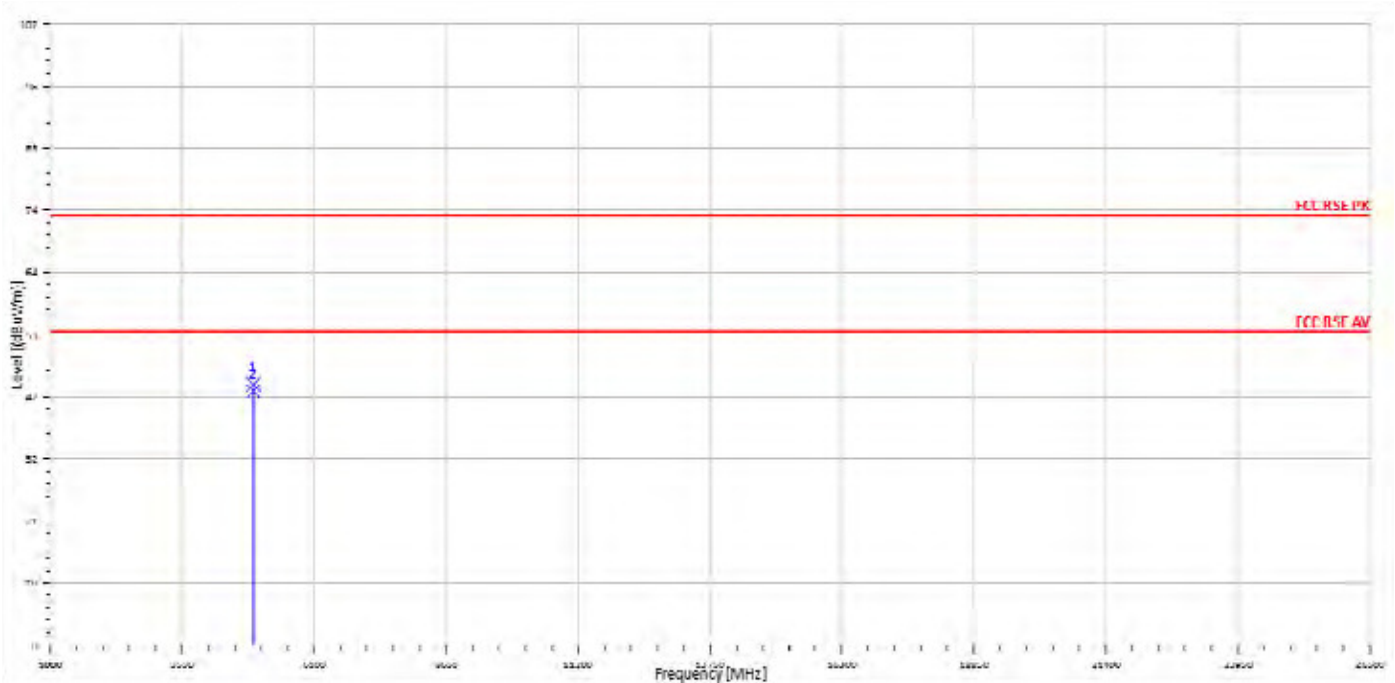
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Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH High	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
4924.00	H	Peak	45.53	-0.62	44.91	74	-29.09
4924.00	H	Average	44.36	-0.62	43.74	54	-10.26

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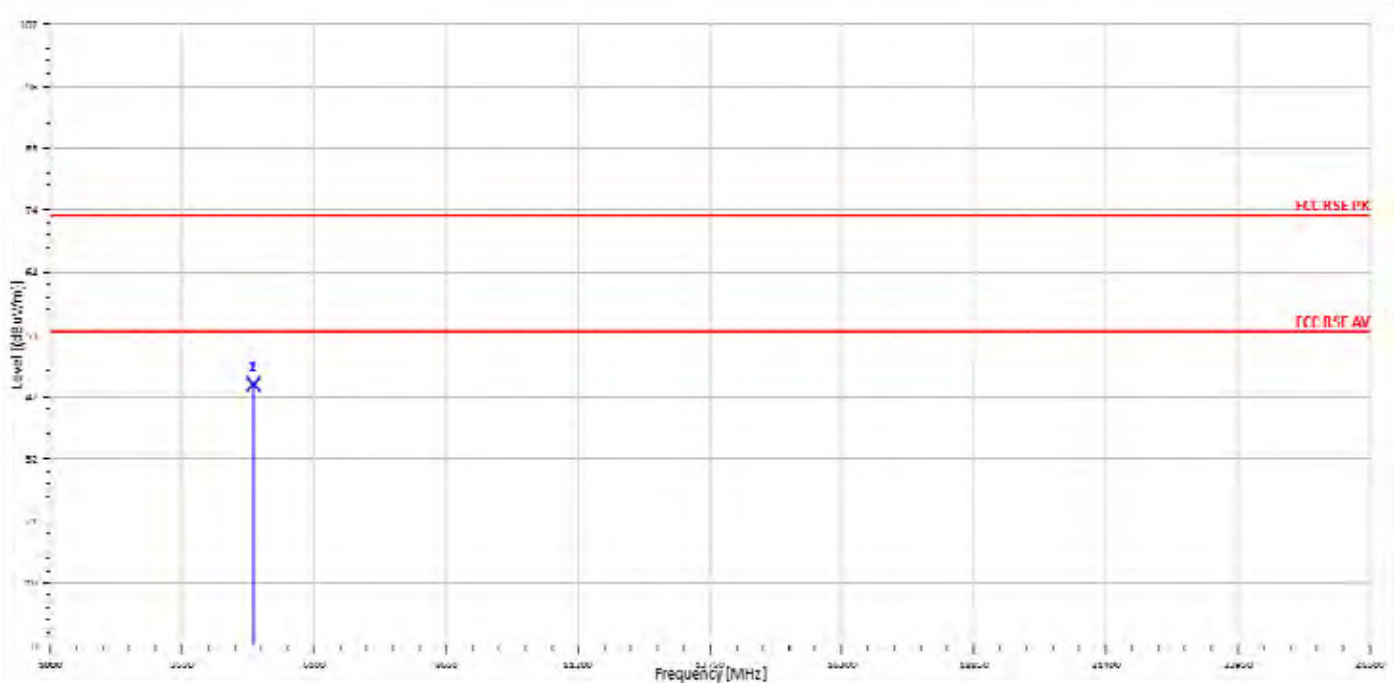
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Operation Mode :	802.11b	Test Date :	2015/12/29
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH High	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	45.75	-0.62	45.13	74	-28.87
4924.00	H	Average	44.80	-0.62	44.80	54	-9.20

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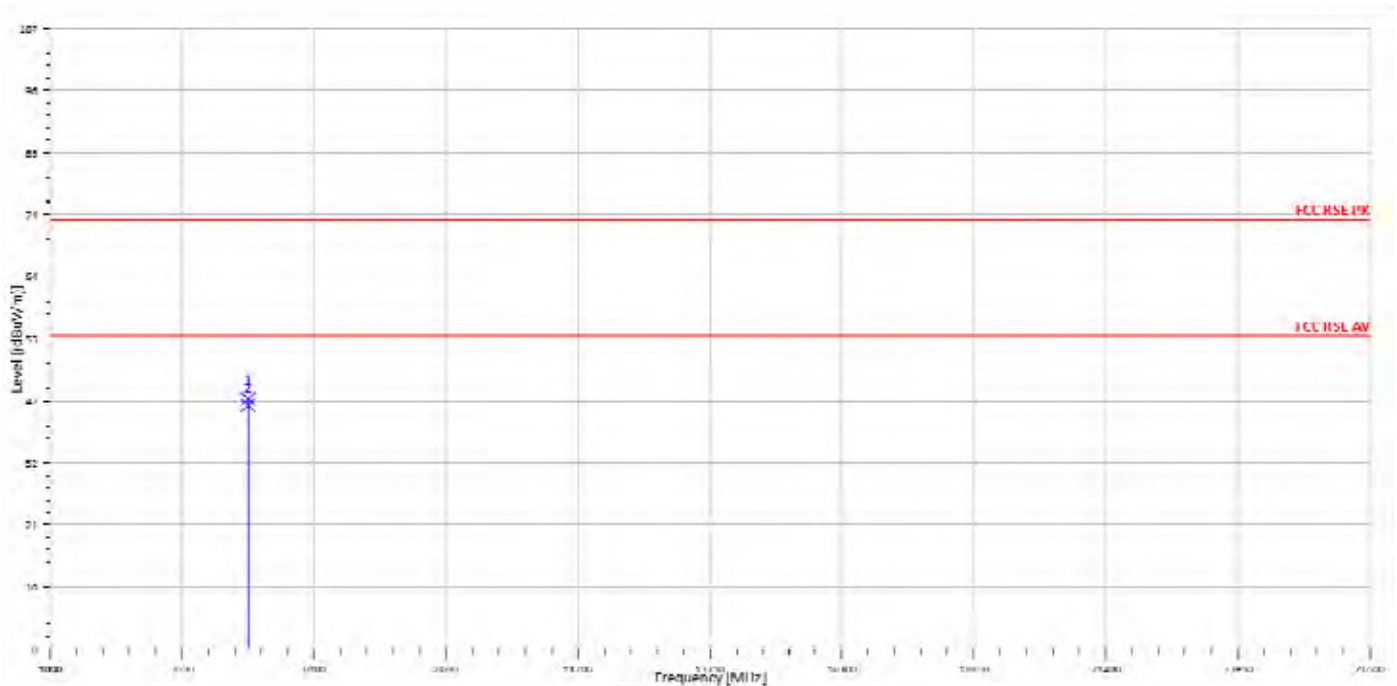
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode :	802.11g	Test Date :	2016/1/11
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
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	44.19	-1.04	43.15	74	-30.85
4824.00	H	Average	43.08	-1.04	42.04	54	-11.96

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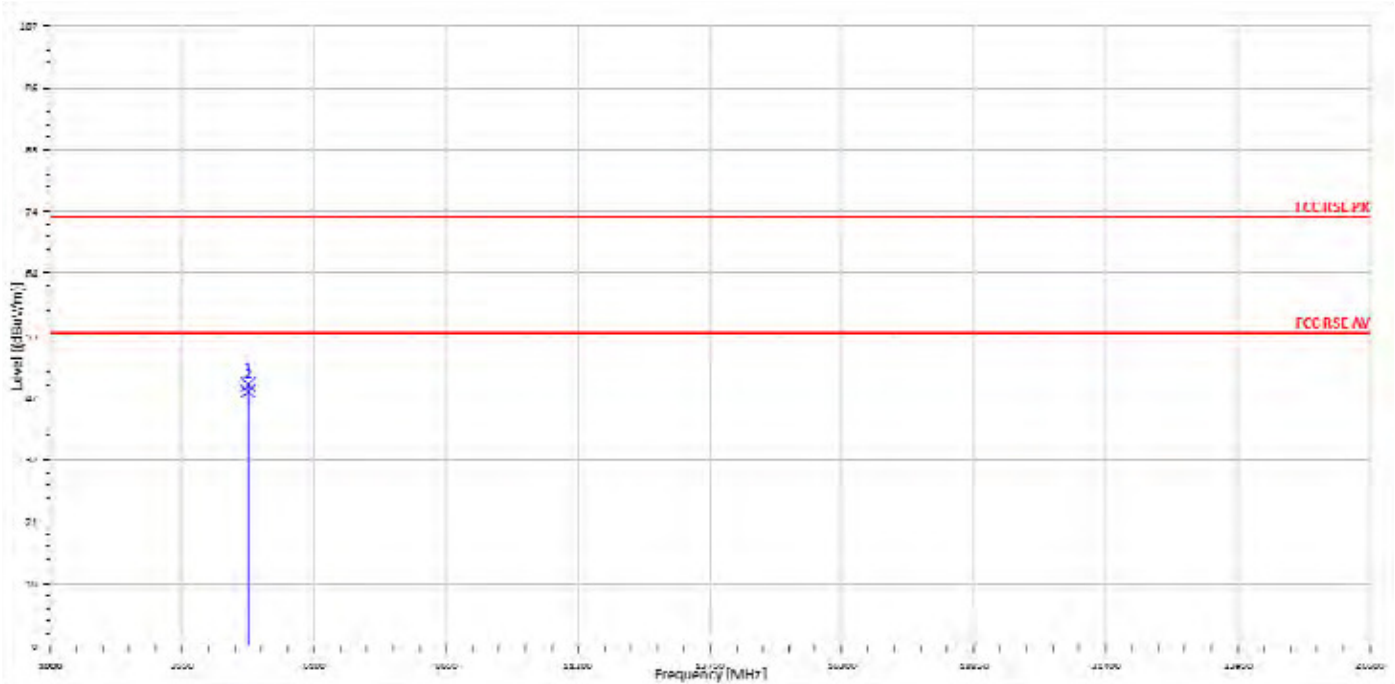
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH Low Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	46.10	-1.04	45.06	74	-28.94
4824.00	H	Average	44.95	-1.04	44.95	54	-9.05

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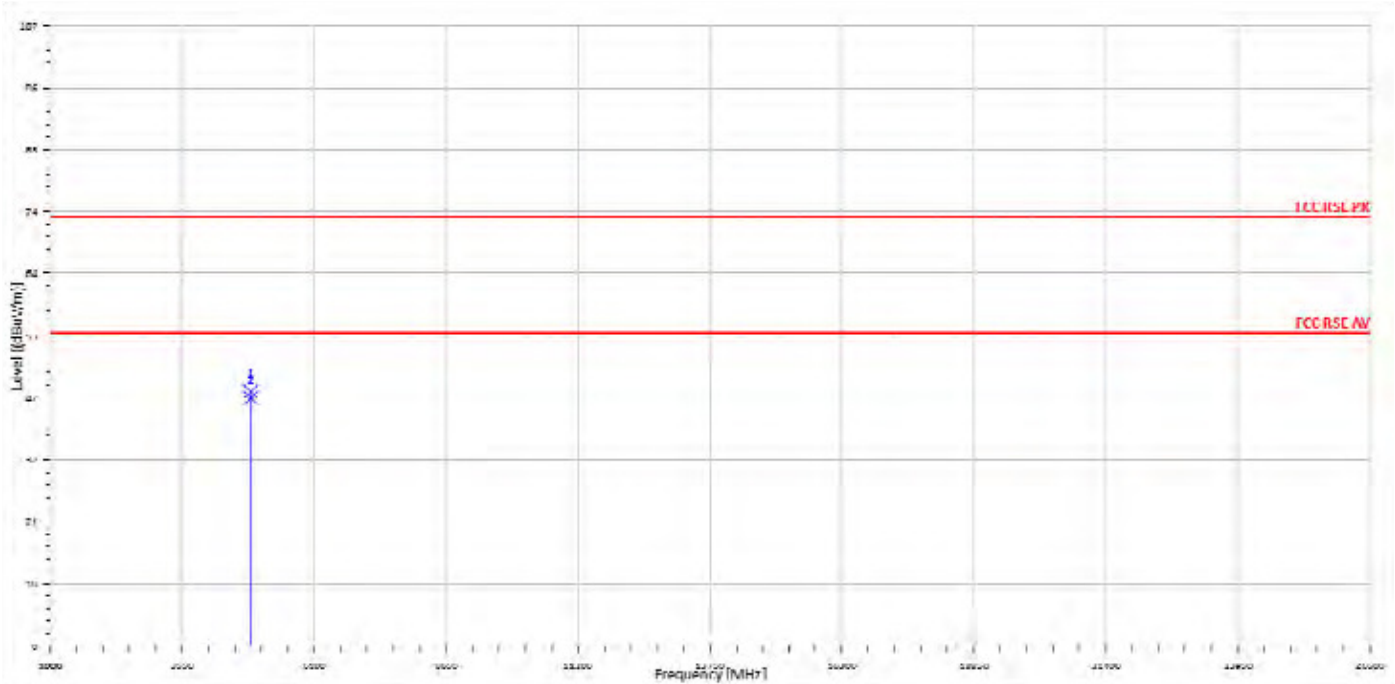
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH Mid Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	44.62	-1.04	43.58	74	-30.42
4874.00	H	Average	43.51	-1.04	42.47	54	-11.53

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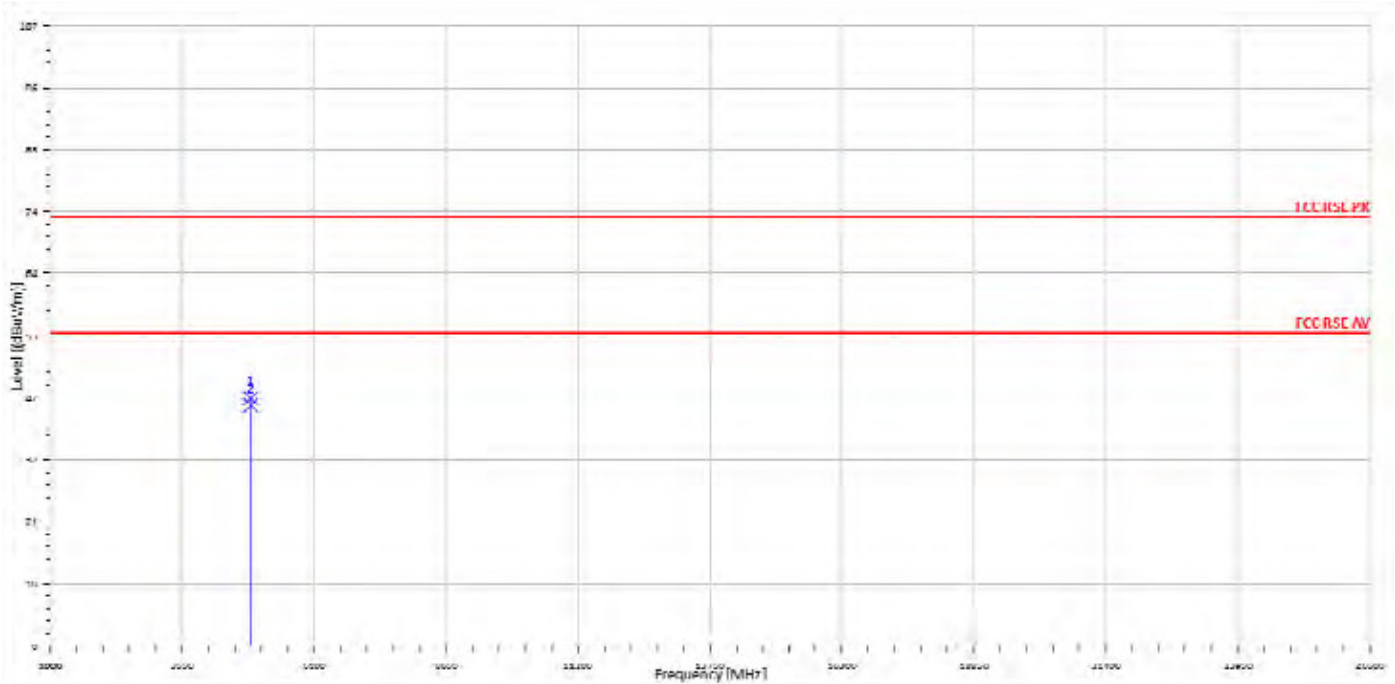
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Operation Mode :	802.11g	Test Date :	2016/1/11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	43.46	-1.04	42.42	74	-31.58
4874.00	H	Average	42.21	-1.04	42.21	54	-11.79

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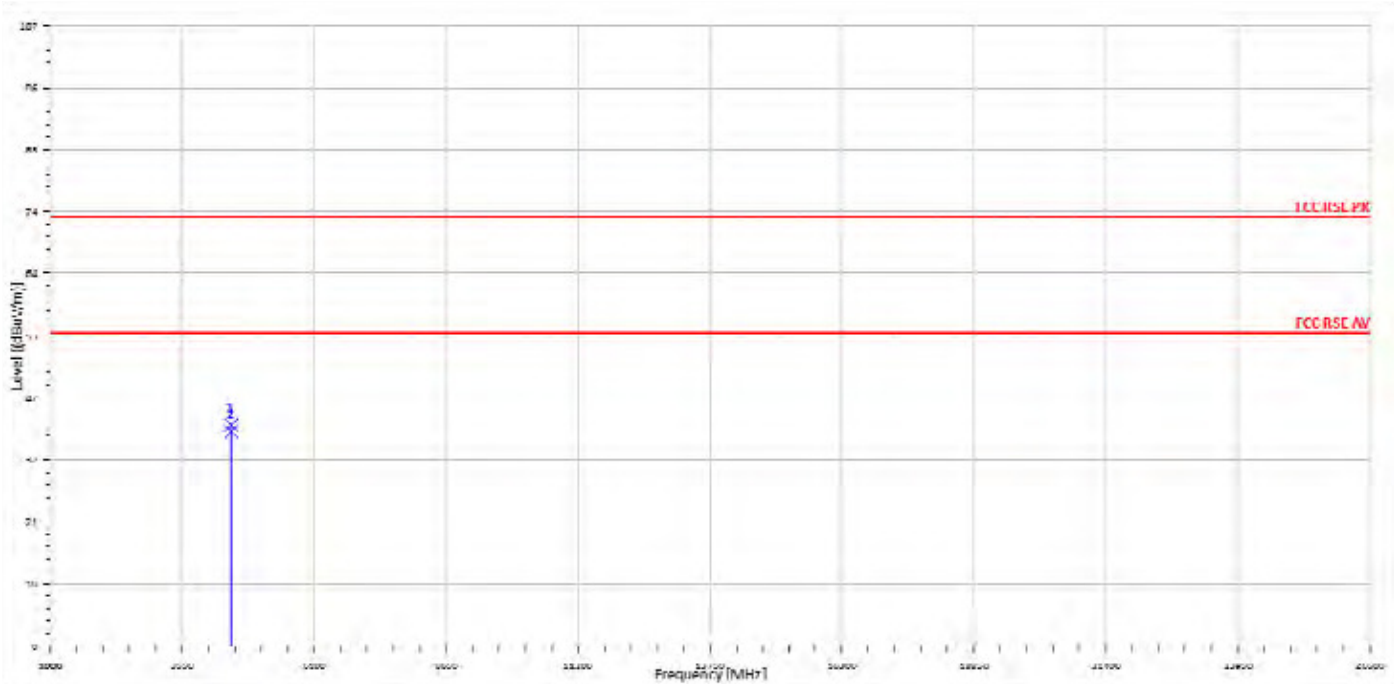
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
4500.00	H	Peak	40.20	-2.10	38.10	74	-35.90
4500.00	H	Average	39.02	-2.10	36.92	54	-17.08

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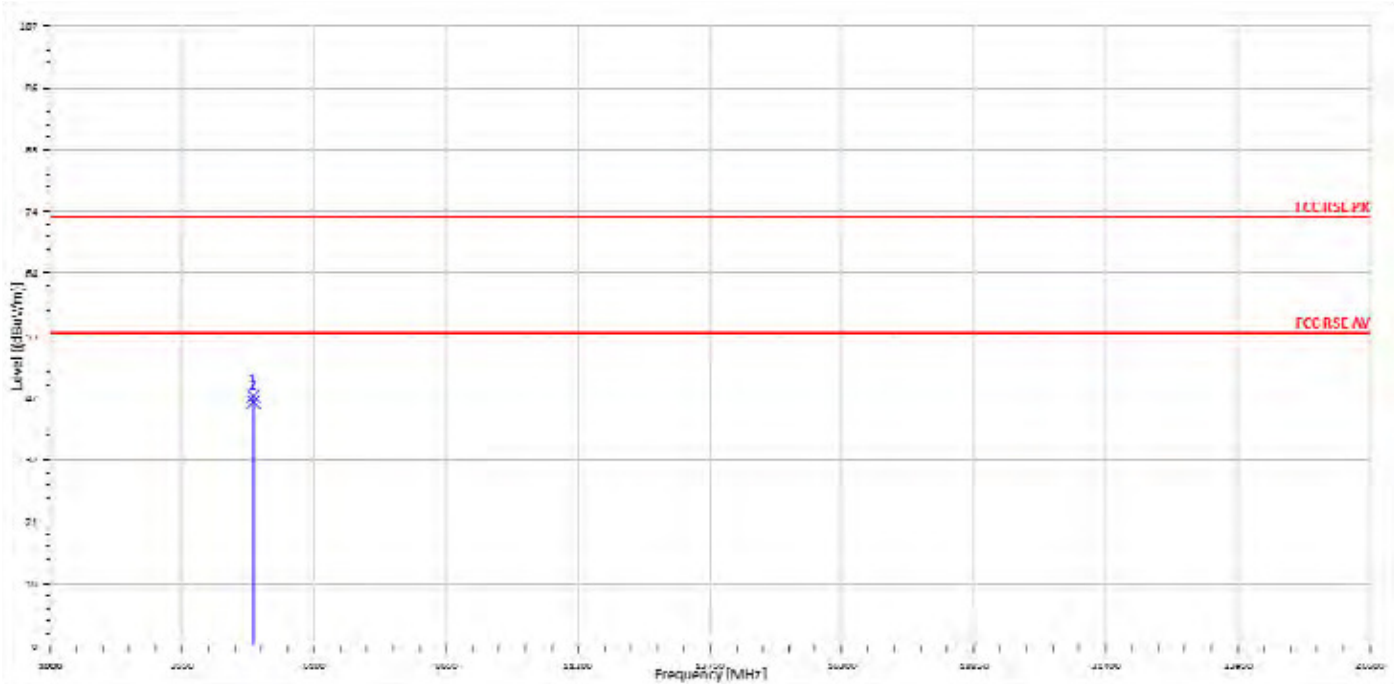
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Operation Mode : 802.11g Test Date : 2016/1/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	43.73	-0.62	43.11	74	-30.89
4924.00	H	Average	42.68	-0.62	42.68	54	-11.32

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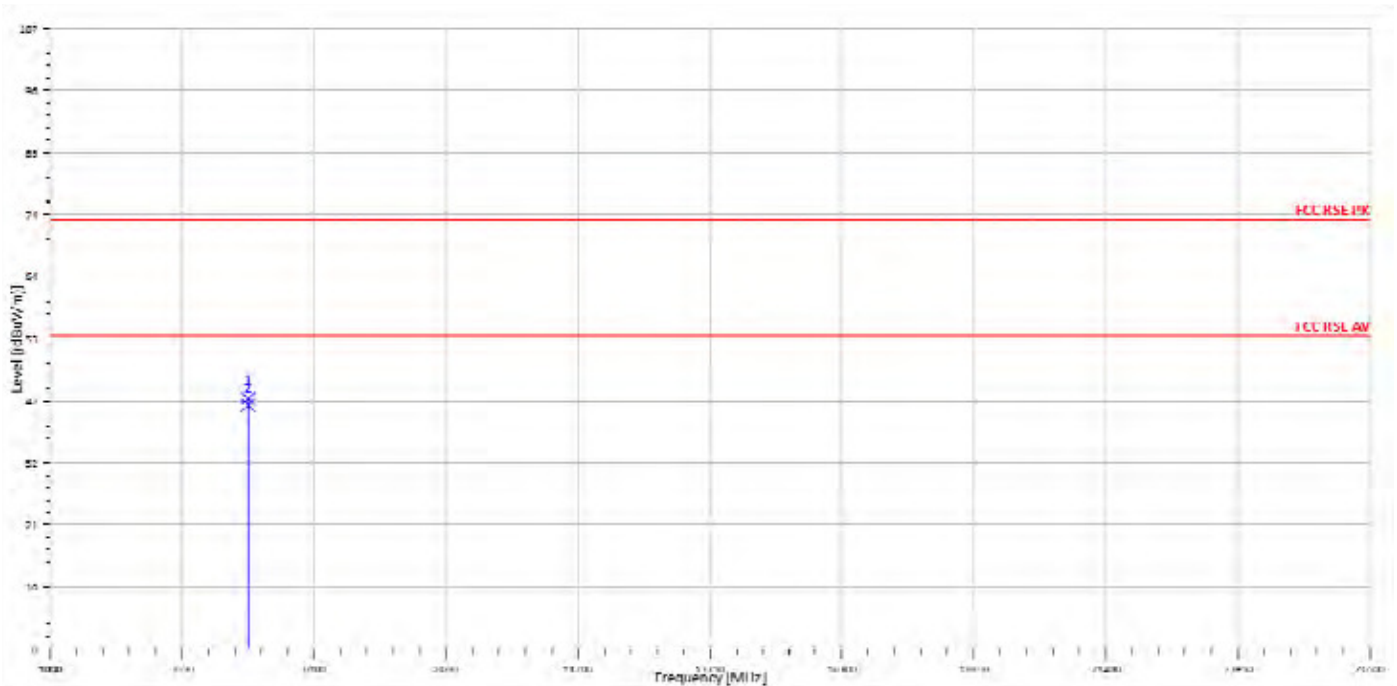
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode :	802.11n20	Test Date :	2016/1/11
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
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	44.25	-1.04	43.21	74	-30.79
4824.00	H	Average	43.11	-1.04	42.07	54	-11.93

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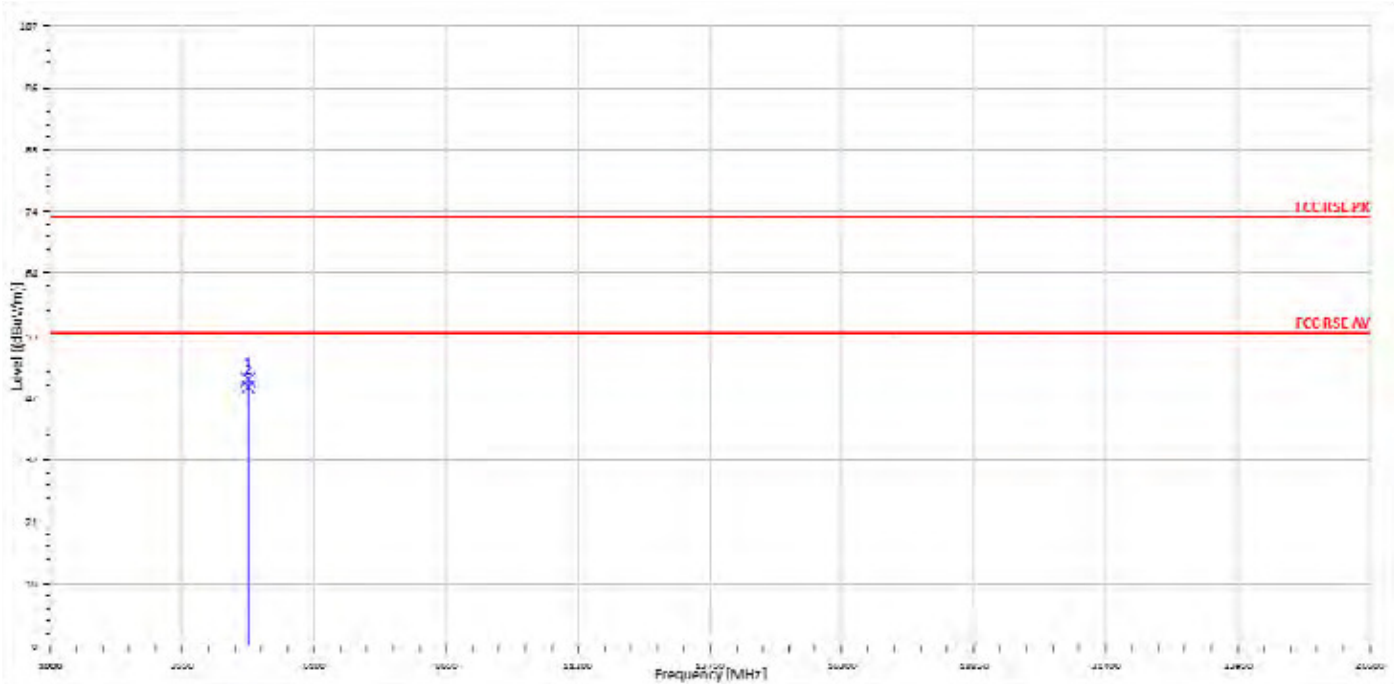
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Operation Mode :	802.11n20	Test Date :	2016/1/11
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4824.00	H	Peak	46.98	-1.04	45.94	74	-28.06
4824.00	H	Average	45.72	-1.04	44.68	54	-9.32

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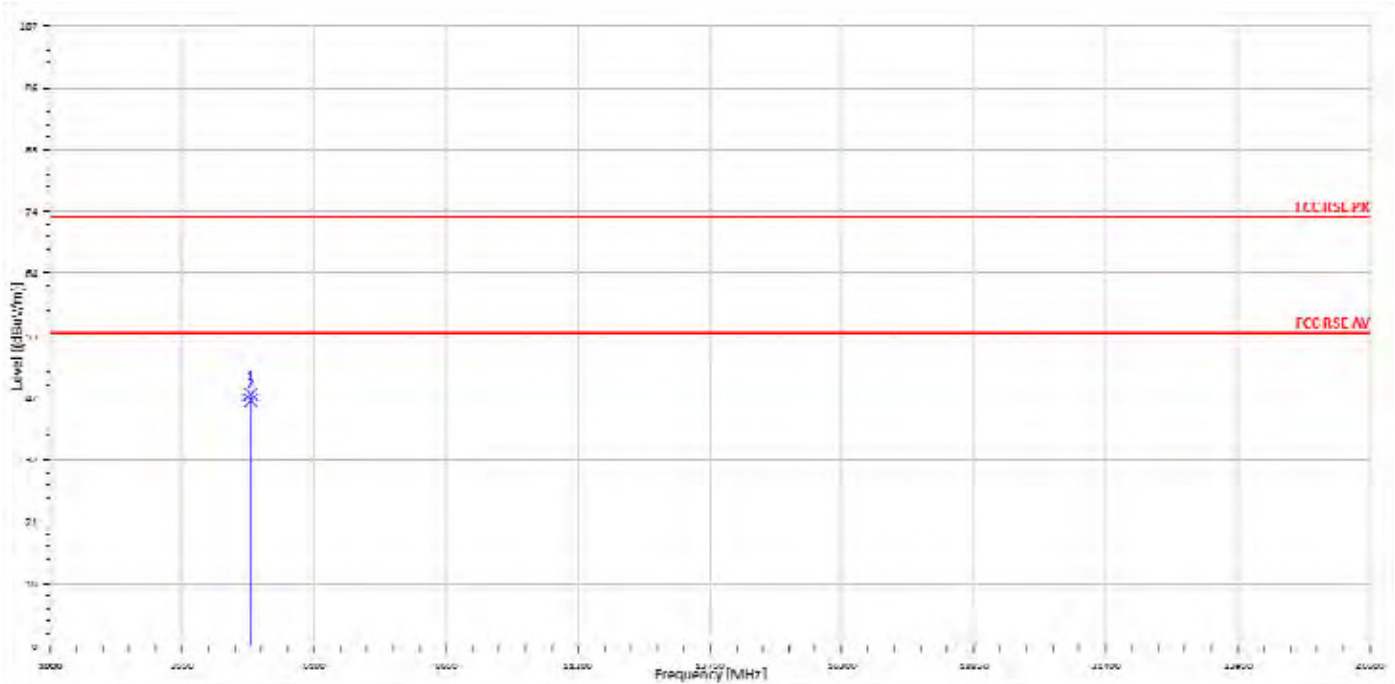
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Operation Mode :	802.11n20	Test Date :	2016/1/11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	44.18	-0.75	43.43	74	-30.57
4874.00	H	Average	43.04	-0.75	42.29	54	-11.71

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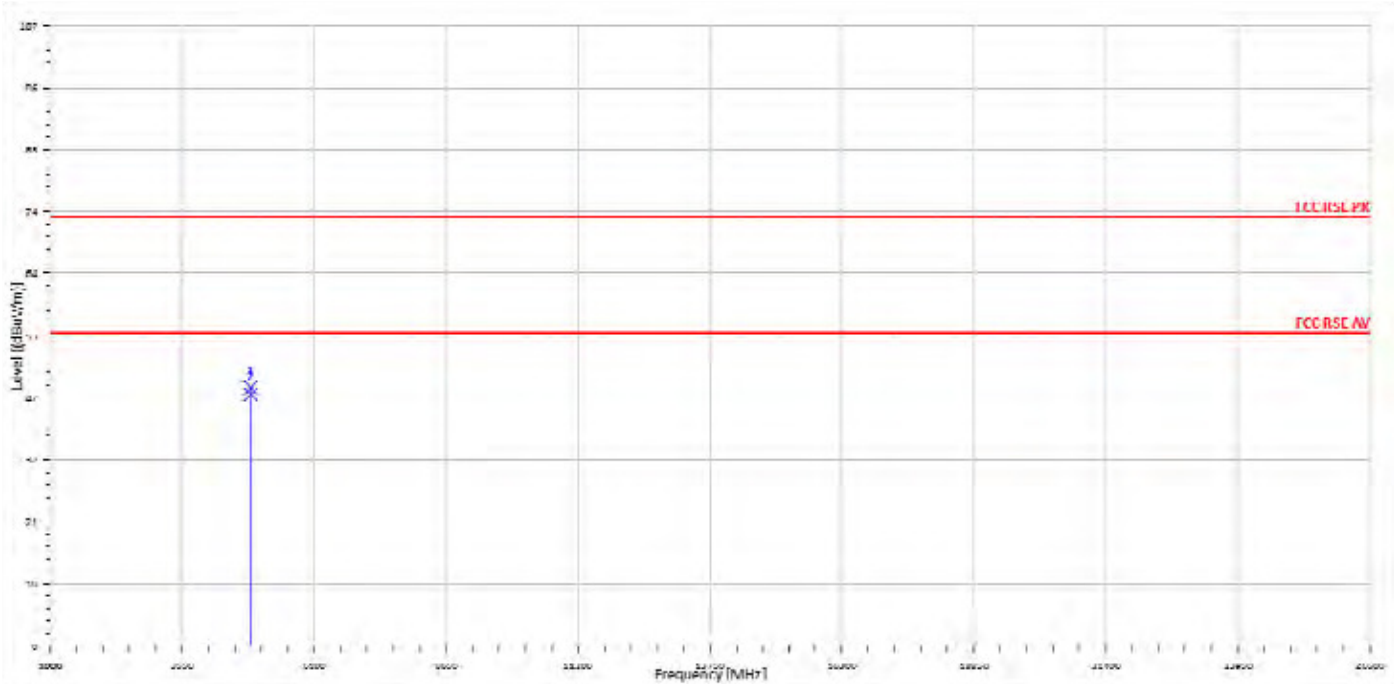
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Operation Mode :	802.11n20	Test Date :	2016/1/11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	S	Peak	45.29	-0.75	44.54	74	-29.46
4874.00	S	Peak	44.14	-0.75	43.39	74	-30.61

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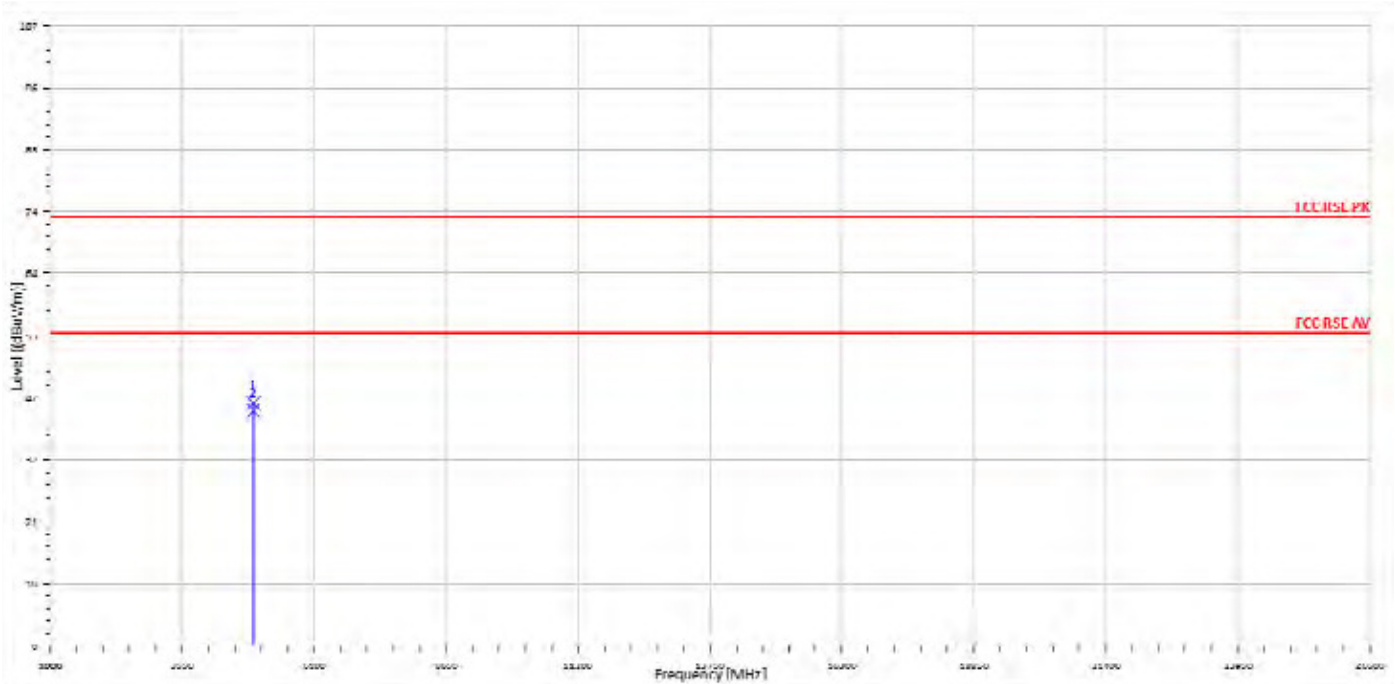
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Operation Mode :	802.11n20	Test Date :	2016/1/11
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH High	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
4924.00	H	Peak	42.38	-0.62	41.76	74	-32.24
4924.00	H	Average	41.19	-0.62	40.57	54	-13.43

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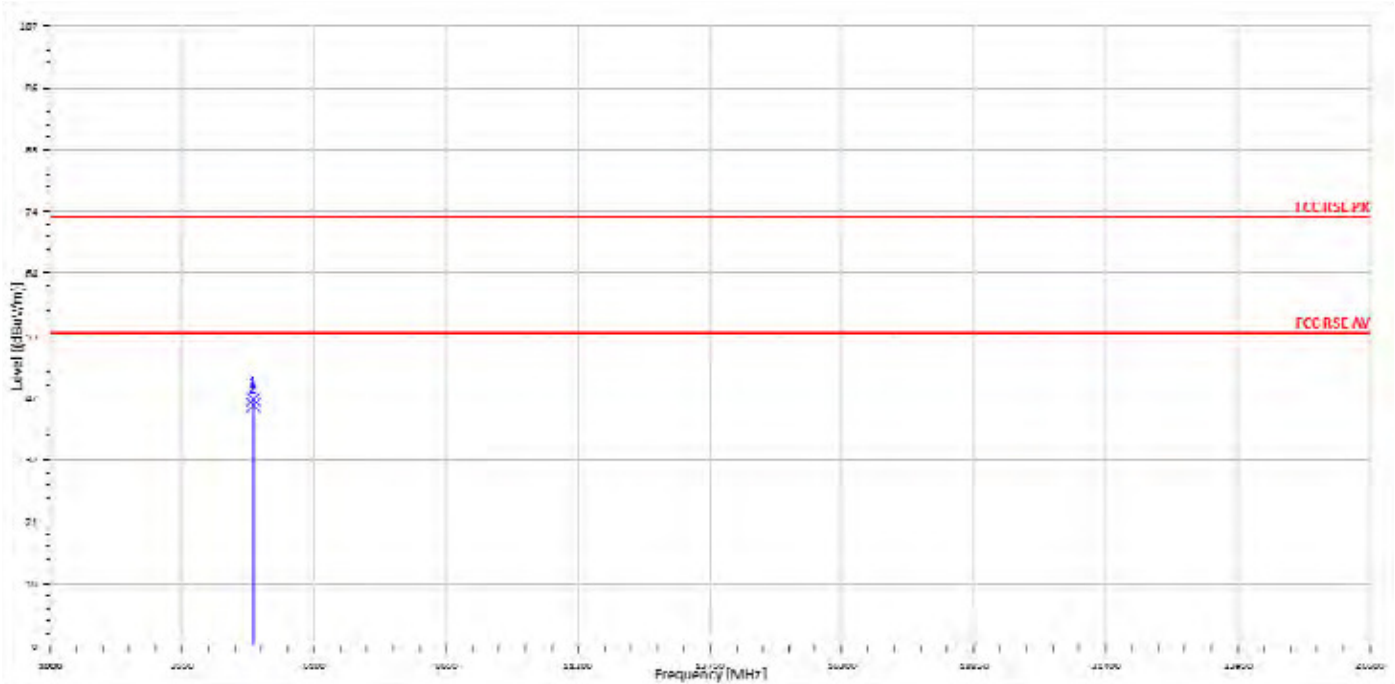
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Operation Mode : 802.11n20 Test Date : 2016/1/11
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	43.14	-0.62	42.52	74	-31.48
4924.00	H	Average	42.06	-0.62	41.44	54	-12.56

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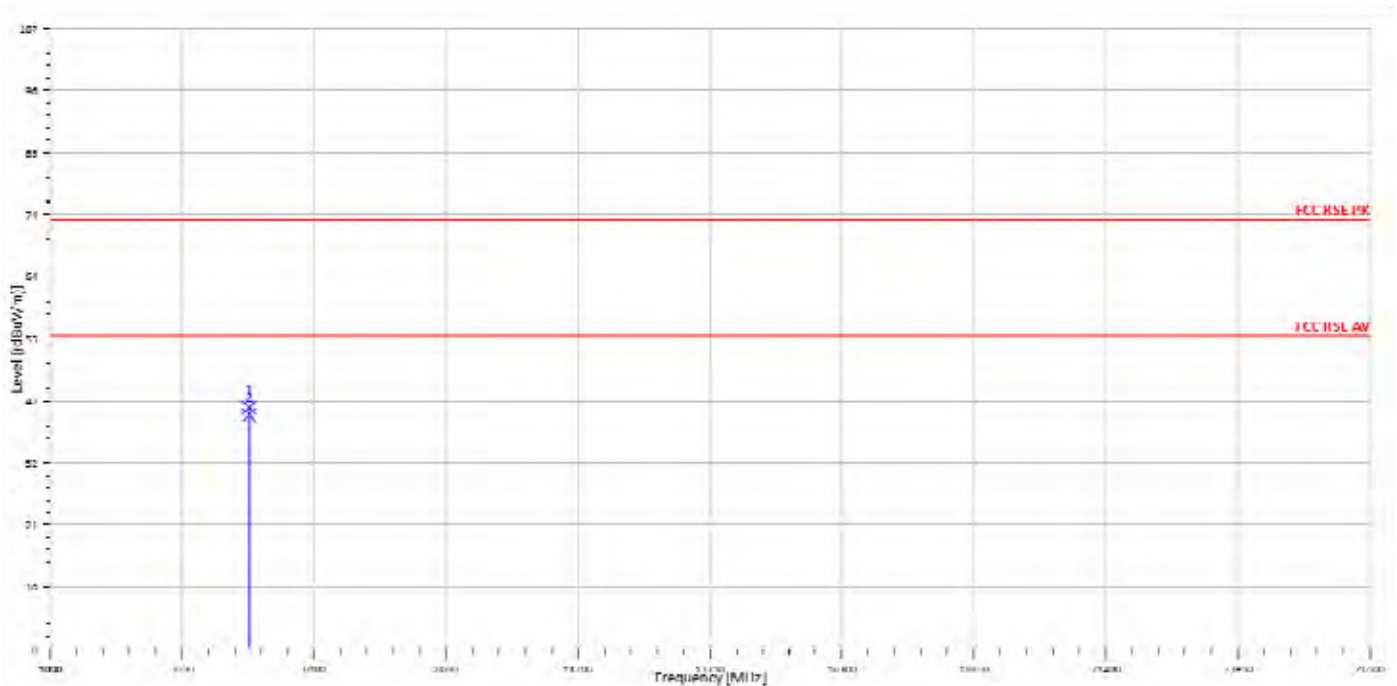
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode :	802.11n40	Test Date :	2016/1/11
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
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	42.56	-0.92	41.63	74	-32.37
4844.00	H	Average	41.28	-0.92	40.36	54	-13.64

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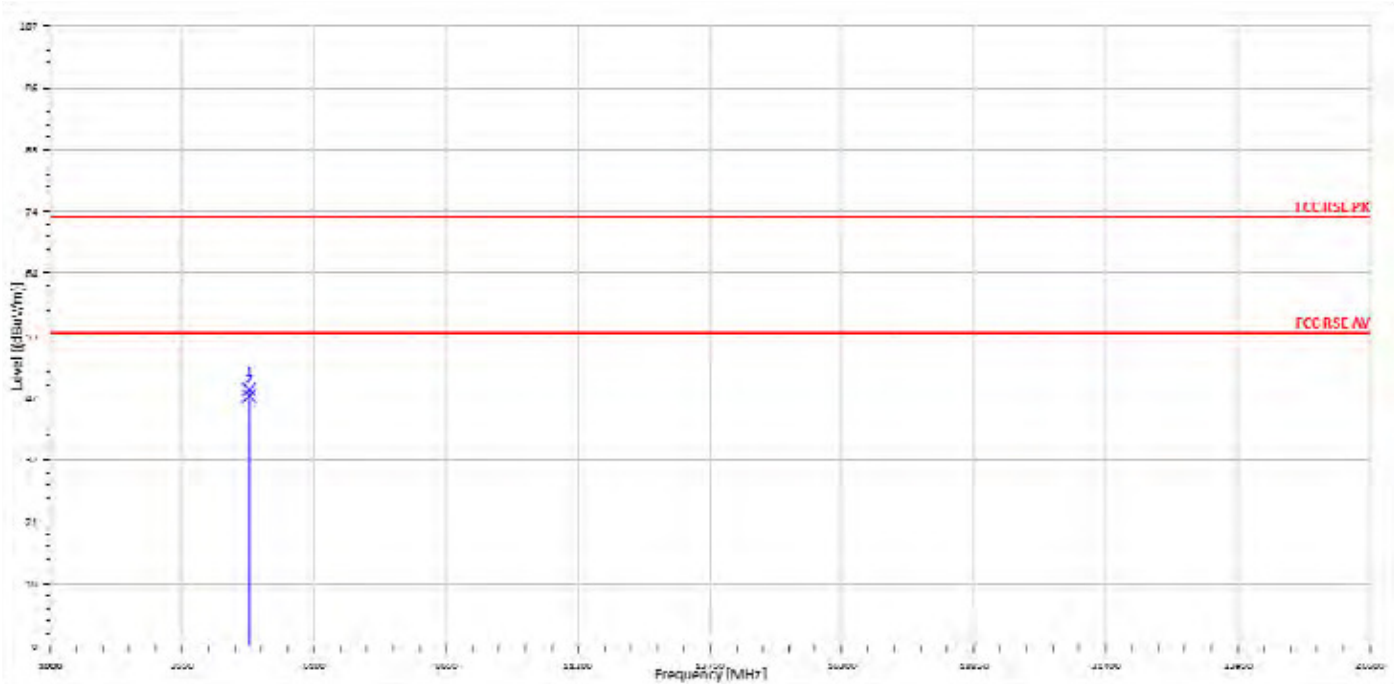
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Operation Mode :	802.11n40	Test Date :	2016/1/11
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Low	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
4844.00	H	Peak	45.13	-0.92	44.21	74	-29.79
4844.00	H	Average	43.11	-0.92	42.19	54	-11.81

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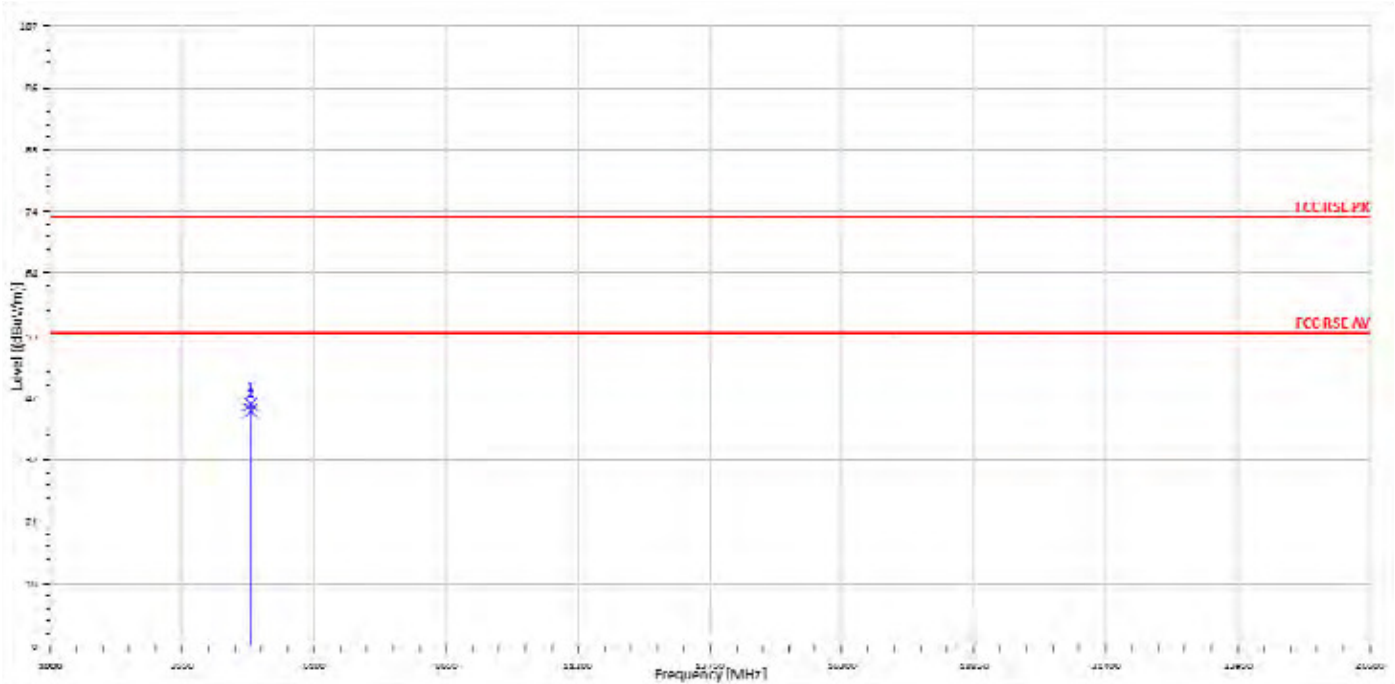
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Operation Mode :	802.11n40	Test Date :	2016/1/11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	42.42	-0.75	41.67	74	-32.33
4874.00	H	Average	41.32	-0.75	40.57	54	-13.43

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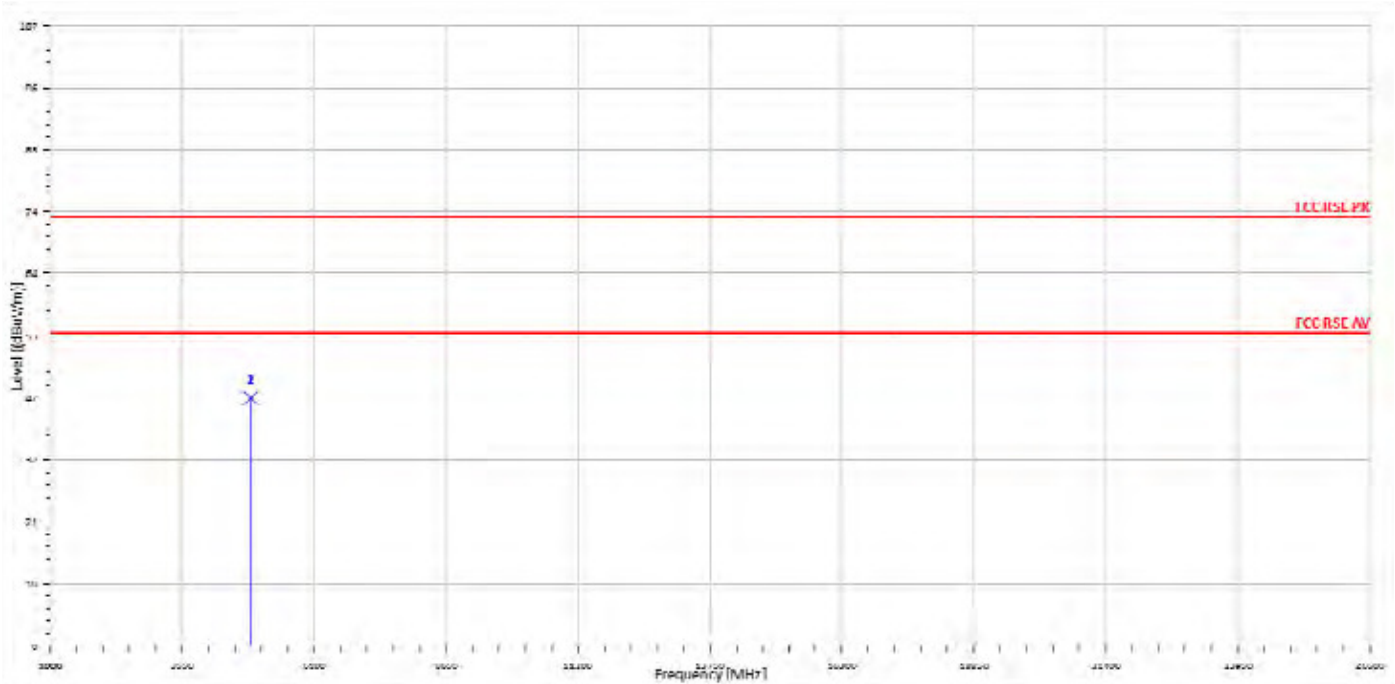
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Operation Mode :	802.11n40	Test Date :	2016/1/11
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	24.2 deg/ 62 RH
Operation Band :	Tx CH Mid	Test Engineer :	Vito
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4874.00	H	Peak	43.50	-0.75	42.75	74	-31.25
4874.00	H	Average	44.24	-0.75	43.50	54	-10.50

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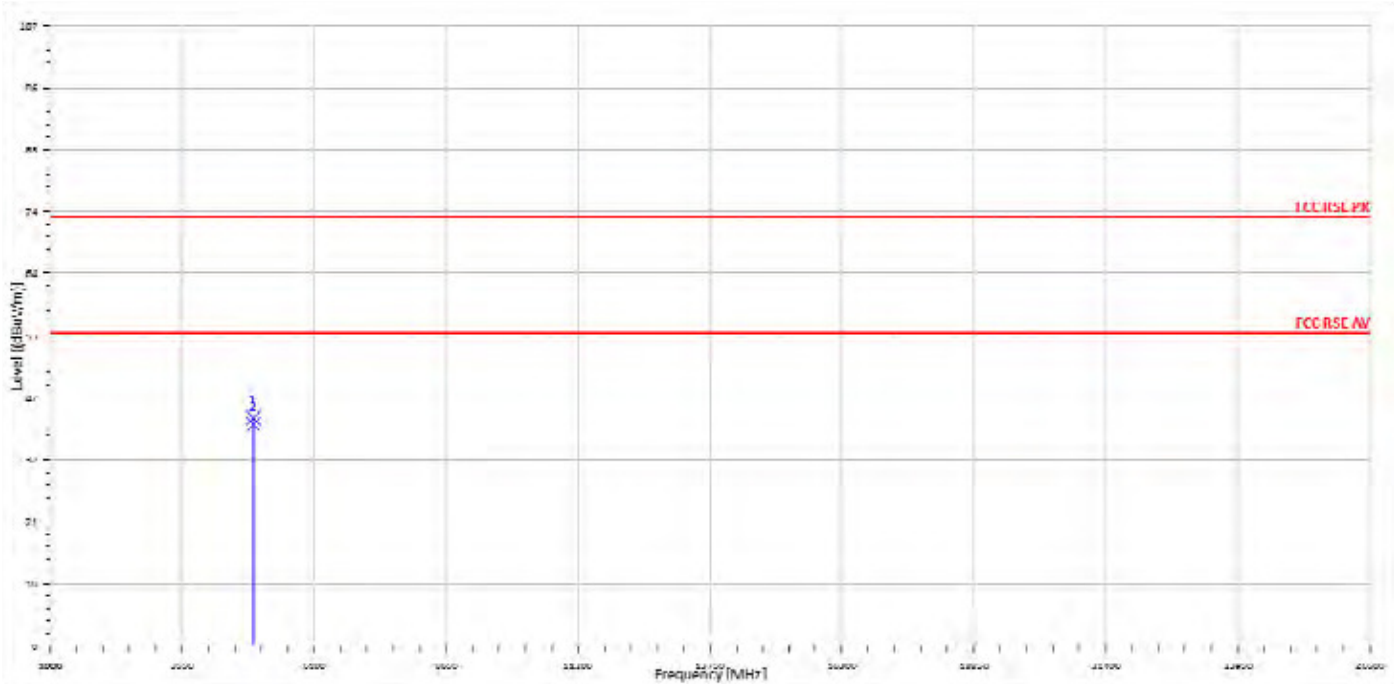
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Operation Mode : 802.11n40 Test Date : 2016/1/11
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
4924.00	H	Peak	39.95	-0.62	39.33	74	-34.67
4924.00	H	Average	39.44	-0.62	38.82	54	-15.18

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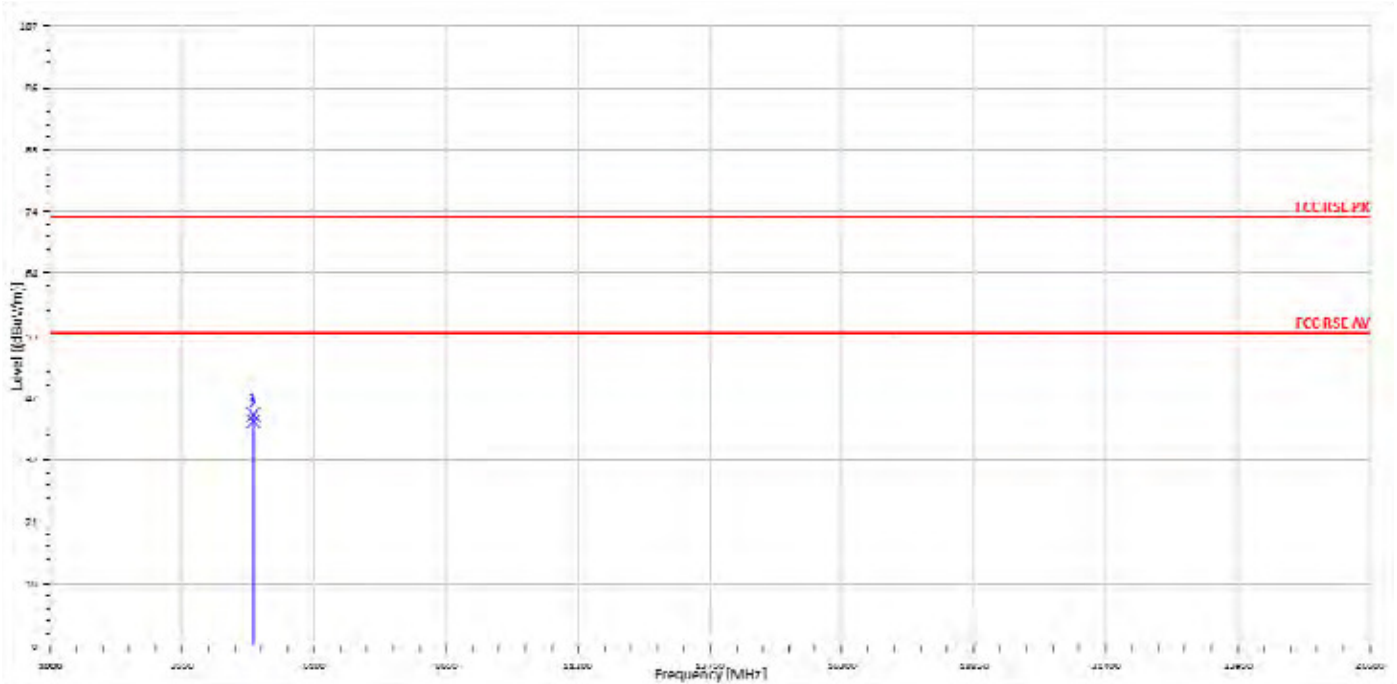
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Operation Mode : 802.11n40 Test Date : 2016/1/11
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 24.2 deg/ 62 RH
 Operation Band : Tx CH High Test Engineer : Vito
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
4924.00	H	Peak	40.52	-0.62	39.90	74	-34.10
4924.00	H	Average	40.05	-0.62	39.43	54	-14.57

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12 PEAK POWER SPECTRAL DENSITY

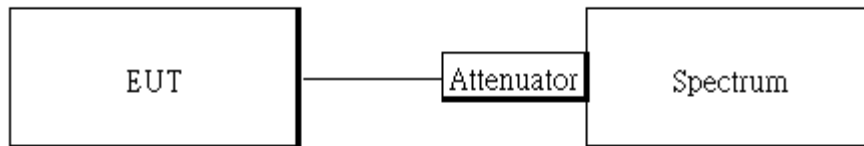
12.1 Standard Applicable

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

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	04/14/2015	04/13/2016
DC Block	PASTERNAK	PE8210	RF29	12/12/2015	12/11/2016
Splitter	RF-LAMBAD	RFLT2W1G18 G	RF35	12/12/2015	12/11/2016
Attenuator	WOKEN	218FS-10	RF23	12/12/2015	12/11/2016

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r04.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz.
5. Set the VBW = 10 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

POWER DENSITY 802.11b MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-15.39	8	PASS
2437	-15.77	8	PASS
2462	-15.64	8	PASS

POWER DENSITY 802.11g MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-13.93	8	PASS
2437	-13.82	8	PASS
2462	-14.15	8	PASS

POWER DENSITY 802.11n HT20 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2412	-13.60	8	PASS
2437	-12.90	8	PASS
2462	-13.16	8	PASS

POWER DENSITY 802.11n HT40 MODE			
Frequency (MHz)	RF Power Density (dBm)	Maximum Limit (dBm)	Result
2422	-13.12	8	PASS
2437	-13.31	8	PASS
2452	-14.75	8	PASS

**Refer to next page for plots*

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802.11b

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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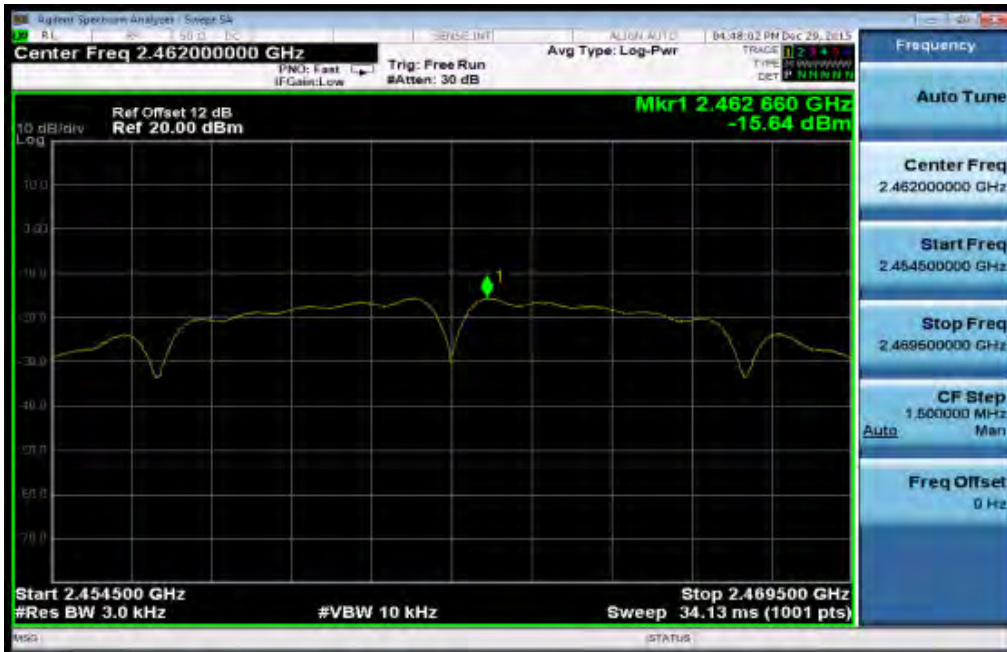
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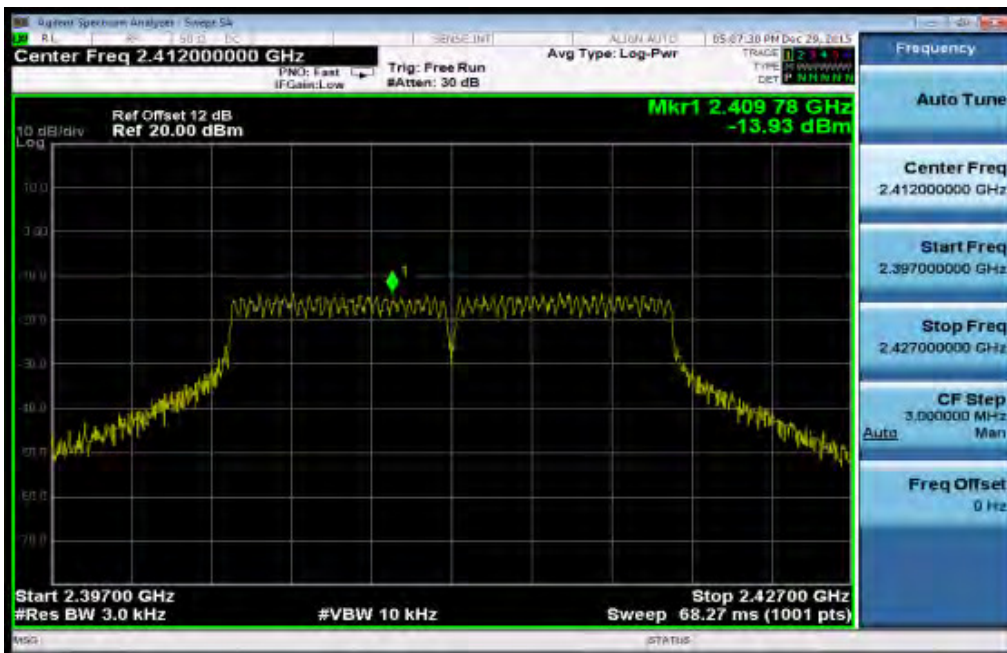
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Power Spectral Density Test Plot (CH-High)



802.11g

Power Spectral Density Test Plot (CH-Low)



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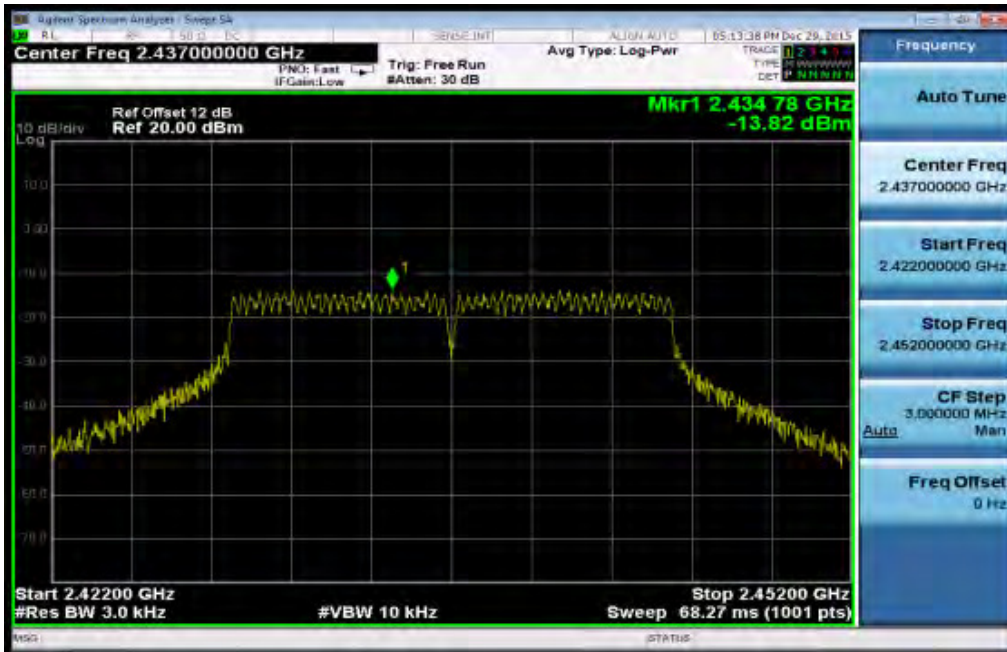
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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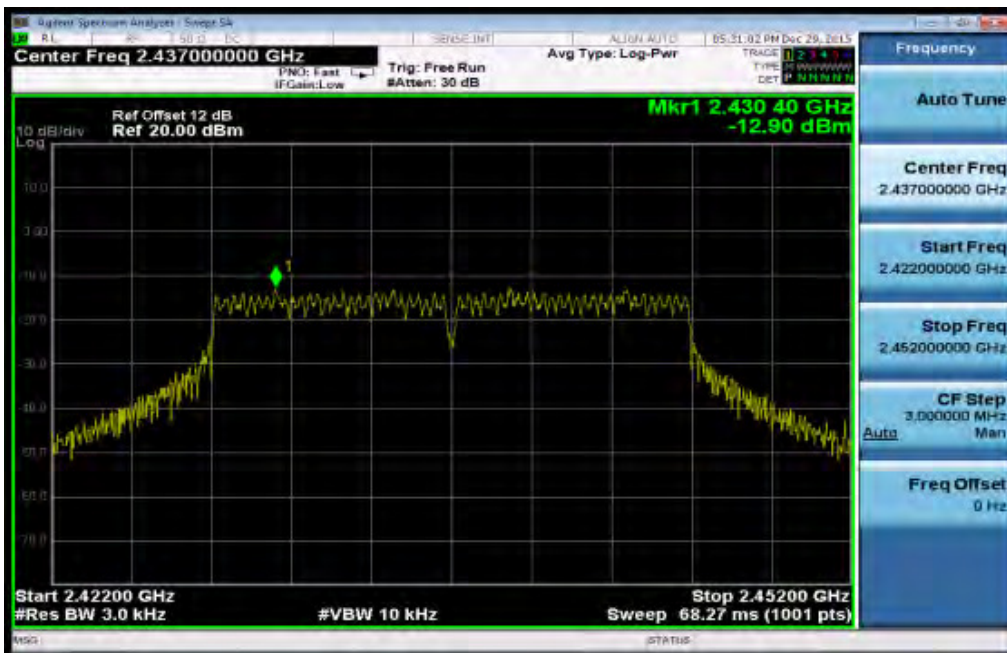
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802.11n_HT20

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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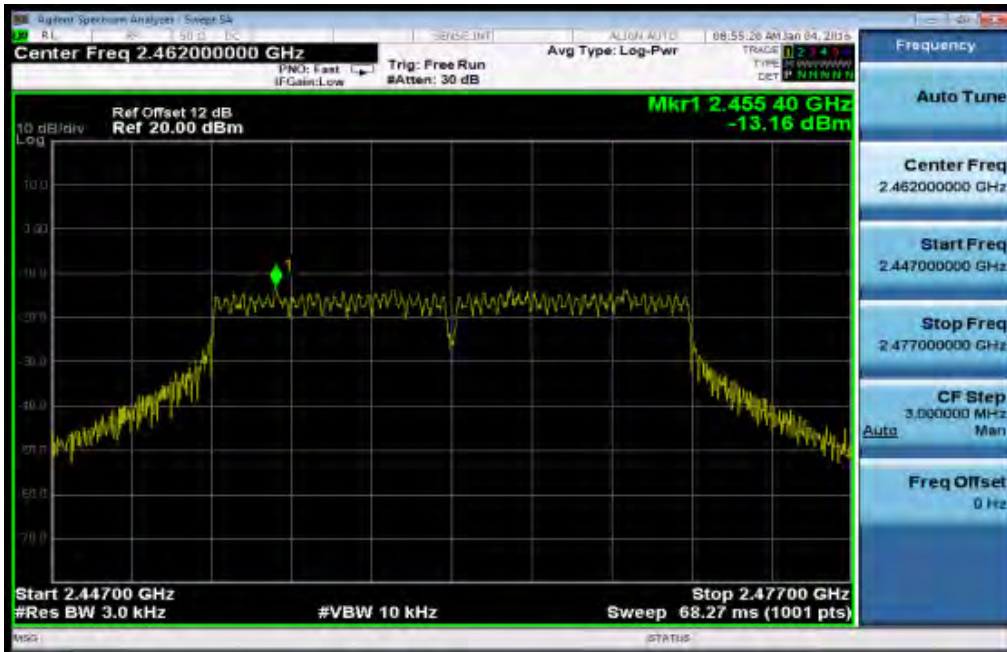
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Power Spectral Density Test Plot (CH-High)



802.11n_HT40

Power Spectral Density Test Plot (CH-Low)



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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

According to RSS-GEN 8.3

The applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.⁹ When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

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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14 MAXIMUM PERMISSIBLE EXPOSURE (MPE)(FCC)

14.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1093 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	F/1500	30
1500-15000	/	/	1.0	30

F = frequency in MHz

* = Plane-wave equipment power density

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14.2 Maximum Permissible Exposure (MPE) Evaluation

CH	Frequency (MHz)	Max. output power including tune-up tolerance (dBm)	Required Limit
1	2412	14.95	1 Watt = 30 dBm
6	2437	14.94	1 Watt = 30 dBm
11	2462	14.93	1 Watt = 30 dBm

MPE Prediction (802.11b 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerance:	14.95	(dBm)
Max. output power including tune-up tolerance:	31.260794	(mW)
Duty cycle:	100	(%)
Maximum Pav :	31.260794	(mW)
Peak Antenna gain (Maximum):	2.14	(dBi)
Peak Antenna gain (linear):	1.6368165	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.010	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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CH	Frequency (MHz)	Max. output power including tune-up tolerance (dBm)	Required Limit
1	2412	14.98	1 Watt = 30 dBm
6	2437	14.95	1 Watt = 30 dBm
11	2462	14.85	1 Watt = 30 dBm

MPE Prediction (802.11g 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerance:	14.98	(dBm)
Max. output power including tune-up tolerance:	31.477483	(mW)
Duty cycle:	100	(%)
Maximum Pav :	31.477483	(mW)
Peak Antenna gain (Maximum):	2.14	(dBi)
Peak Antenna gain (linear):	1.6368165	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2412	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.010	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2412MHz.

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CH	Frequency (MHz)	Max. output power including tune-up tolerance (dBm)	Required Limit
1	2412	14.92	1 Watt = 30 dBm
6	2437	14.94	1 Watt = 30 dBm
11	2462	14.82	1 Watt = 30 dBm

MPE Prediction (802.11n_20M 2412~2462)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerance:	14.94	(dBm)
Max. output power including tune-up tolerance:	31.188896	(mW)
Duty cycle:	100	(%)
Maximum Pav :	31.188896	(mW)
Peak Antenna gain (Maximum):	2.14	(dBi)
Peak Antenna gain (linear):	1.6368165	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2437	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.010	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2437MHz.

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CH	Frequency (MHz)	Max. output power including tune-up tolerance (dBm)	Required Limit
3	2422	14.98	1 Watt = 30 dBm
6	2437	14.93	1 Watt = 30 dBm
9	2452	13.65	1 Watt = 30 dBm

MPE Prediction (802.11n_40M 2422~2452)

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

Max. output power including tune-up tolerance:	14.98	(dBm)
Max. output power including tune-up tolerance:	31.477483	(mW)
Duty cycle:	100	(%)
Maximum Pav :	31.477483	(mW)
Peak Antenna gain (Maximum):	2.14	(dBi)
Peak Antenna gain (linear):	1.6368165	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	2422	(MHz)
MPE limit for uncontrolled exposure at prediction	1	(mW/cm ²)
Power density at predication frequency at 20 (cm)	0.010	(mW/cm ²)

Measurement Result

The predicted power density level at 20 cm is 0.01 mW/cm².

This is below the uncontrolled exposure limit of 1 mW/cm² at 2422MHz.

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15 MAXIMUM PERMISSIBLE EXPOSURE (MPE)(IC)

15.1 Standard Applicable:

According to RSS 102 March 19,2015 issue 5 §2.5.2 RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

below 20 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $22.48/f^{0.5}W$ (adjusted for tune-up tolerance), where f is in MHz;

at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834} W$ (adjusted for tune-up tolerance), where f is in MHz;

This is a Mobile device, at which separation distance between the user and the device's antenna is 20cm. Therefore, section 2.5.2 shall be complied with

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15.2 Maximum Permissible Exposure (MPE) Evaluation

802.11 b:

Max. output power including tune-up tolerance:	14.95	(dBm)
Max. output power including tune-up tolerance:	31.260794	(mW)
Antenna gain (Peak):	2.14	(dBi)
Maximum antenna gain:	1.6368165	(numeric)
Frequency	2412	MHz
Limit	2.6840	W

Evaluation Result

The radiated power is $14.95 + 2.14 = 17.09$ dBm(EIRP) = 51.168 mW = 0.051168 W that is less than or equal to 2.684 W. Hence, following section 2.5.2 of RSS102 issue 5 RF exposure evaluation is no longer required.

802.11 g:

Max. output power including tune-up tolerance:	14.98	(dBm)
Max. output power including tune-up tolerance:	31.477483	(mW)
Antenna gain (Peak):	2.14	(dBi)
Maximum antenna gain:	1.6368165	(numeric)
Frequency	2412	MHz
Limit	2.6840	W

Evaluation Result

The radiated power is $14.98 + 2.14 = 17.12$ dBm(EIRP) = 51.523 mW = 0.051523 W that is less than or equal to 2.684 W. Hence, following section 2.5.2 of RSS102 issue 5 RF exposure evaluation is no longer required.

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802.11n_HT20:

Max. output power including tune-up tolerance:	14.94	(dBm)
Max. output power including tune-up tolerance:	31.188896	(mW)
Antenna gain (Peak):	2.14	(dBi)
Maximum antenna gain:	1.6368165	(numeric)
Frequency	2437	MHz
Limit	2.7030	W

Evaluation Result

The radiated power is $14.94 + 2.14 = 17.08$ dBm(EIRP) = 51.05mW = 0.05105W that is less than or equal to 2.703W. Hence, following section 2.5.2 of RSS102 issue 5 RF exposure evaluation is no longer required.

802.11n HT40:

Max. output power including tune-up tolerance:	14.98	(dBm)
Max. output power including tune-up tolerance:	31.477483	(mW)
Antenna gain (Peak):	2.14	(dBi)
Maximum antenna gain:	1.6368165	(numeric)
Frequency	2422	MHz
Limit	2.6916	W

Evaluation Result

The radiated power is $14.98 + 2.14 = 17.12$ dBm(EIRP) = 51.523mW = 0.051523W that is less than or equal to 2.692W. Hence, following section 2.5.2 of RSS102 issue 5 RF exposure evaluation is no longer required.

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