



RADIO TEST REPORT

For

MODEL NO. 1770

FCC ID: C3K1770

IC ID: 3048A-1770

Test Report No. R-TR209-FCCIC-WLAN-2

Issue Date: 06 November 2015

FCC CFR47 Part 15 Subpart C
Industry Canada RSS-247 Issue 1

Prepared by

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Test Report Attestation

Microsoft Corporation**Model: 1770****FCC ID: C3K1770****IC ID: 3048A-1770****Applicable Standards**

Specification	Test Result
FCC CFR47 Rule Parts 15.209, 15.247	Pass
Industry Canada RSS-247 Issue 1	Pass

Microsoft EMC Laboratory attests that the product model identified in this report has been tested to and meets the requirements identified in the above standards. The test results in this report solely pertains to the specific sample tested, under the conditions and operating modes as provided by the customer.

This report shall not be used to claim product certification, approval, or endorsement by A2LA or any agency of any Government. Reproduction, duplication or publication of extracts from this test report is prohibited and requires prior written approval of Microsoft EMC Laboratory.

This report replaces the previously issued test report #R-TR209-FCCIC-WLAN-1 issued by Microsoft EMC Labs on Nov 2, 2015.



Written By: Daniel Salinas
Radio Test Lead



Reviewed/ Issued By: Sajay Jose
EMC/RF Compliance Lab Manager

2 Deviations from Standards

None.

3 Facilities and Accreditations

3.1 Test Facility

All test facilities used to collect the test data are located at Microsoft EMC Laboratory, located at 17760 NE 67th Ct, Redmond WA, 98052, USA

3.2 Accreditations

The lab is established and follows procedures as outlined in IEC/ISO 17025 and A2LA accreditation requirements.

A2LA Accredited Testing Certificate Number: 3472.01

FCC Registration Number: US1141

IC Site Registration Numbers: 3048A-1, 3048A-2, 3048A-3, 3048A-4

3.3 Test Equipment

The calibrations of the measuring instruments, including any accessories that may affect such calibration, were checked frequently to assure their accuracy. Adjustments were made and correction factors applied in accordance with instructions contained in the user manual for the measuring equipment.

4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the product, as specified in CISPR 16-4-2. This represents an expanded uncertainty expressed at 95% confidence level using a coverage factor $k=2$. These levels are for reference only and not included to determine product compliance.

Expanded uncertainty calculations are available upon request.

Test item	Value (dB)
Radiated disturbance (30 MHz to 1 GHz)	5.76
Radiated disturbance (1 GHz to 18 GHz)	4.80
Conducted Disturbance at Mains Port	3.30

5 Product Description

Company Name:	Microsoft Corporation
Address:	One Microsoft Way
City, State, Zip:	Redmond, WA 98052-6399
Customer Contact:	Pamela Galvan
Functional Description of the EUT:	Wireless Input Device
Model:	1770
FCC ID:	C3K1770
IC ID:	3048A-1770
Radio Description:	IEEE WLAN 802.11g/n with 20 MHz signal bandwidths (SISO only)
Frequency Range of Operation:	2.4GHz – 2.4835GHz
Modulation:	CCK, BPSK, OFDM, and QAM modulation
Antenna Type and Gain:	Internal -0.55dBi (Manufacturer stated)
EUT Classification:	DTS
Equipment Design State:	Production
Equipment Condition:	Good
Test Sample Details:	RF Conducted Samples: 02980005874513 RF Radiated Sample: 02980005774513, 02980005744513, 02980005754513 AC Line Conducted Emissions samples: 02990000583529, 02990000133529, 02990000293529, 02990000723529

5.1 Test Configurations

Test software “Radio Test 2 (ART-GUI) created by the Chipset manufacturer was used to program the EUT to transmit continuously. The EUT was tested in 802.11g and 802.11n modes, at low, middle and high channels of operation.

5.2 Environmental Conditions

Ambient air temperature of the test site was within the range of 10 °C to 40 °C (50 °F to 104 °F) unless the EUT specified testing over a different temperature range. Humidity levels were in the range of 10% to 90% relative humidity. Testing conditions were within tolerance and any deviations required from the EUT are reported.

5.3 Antenna Requirements

The antennas were permanently attached and there were no provisions for connection to an external antenna.

5.4 Equipment Modifications

No modifications were made during testing.

5.5 Dates of Testing

Testing was performed from September 24th to October 30th, 2015.

6 Test Results Summary

Test Description	FCC CFR 47/ IC Rule Part	Limit	Test Result
Duty Cycle	Reporting & Measurements	Reporting & Measurements Purposes only	N/A
6dB Bandwidth	15.247 (a)(2) RSS-247 [5.2]	> 500kHz	Pass
Output Power	15.247 (b)(3) RSS-247 [5.4]	< 1 Watt	Pass
Power Spectral Density	15.247 (e) RSS-247 [5.2]	< 8dBm/3kHz	Pass
Conducted Band Edge/Spurious Emissions	15.247 (d) RSS-247 [5.5]	At least 20dBc	Pass
Radiated Spurious Emissions/ Restricted Band Emissions	15.205, 15.209 RSS-247 [5.5] RSS-Gen [8.9]	FCC CFR 47 15.209 limits RSS-Gen [8.9]	Pass
AC Power line Conducted Emissions	15.207 RSS-Gen [8.8]	FCC CFR 47 15.207 limits RSS-Gen [8.8]	Pass

7 Test Equipment List

The site and related equipment were in conformance with the requirements of ANSI C63.4, CISPR 16-1-1, and other equivalent applicable standards.

Equipment used for Radiated and Conducted Measurements				
Manufacturer	Description	Model #	Asset #	Cal/Ver Due
Rohde & Schwarz	EMI Test Receiver	ESU40	RF-192	4/14/2016
Rohde & Schwarz	EMI Test Receiver	ESU40	RF-012	4/12/2016
Keysight	Spectrum Analyzer	N9030A	RF-011	2/29/2016
Rohde & Schwarz	Signal Analyzer	FSV40	RF-195	4/10/2016
Rohde & Schwarz	Signal Analyzer	FSV40	RF-228	4/10/2016
Sunol Sciences	Antenna - Broadband Hybrid	JB6	RF-039	5/6/2016
ETS-Lindgren	Antenna	3117	RF-139	4/9/2016
ETS-Lindgren	Antenna	3117	RF-137	3/29/2016
ETS-Lindgren	Antenna - Standard Gain Horn	3160-09	RF-037	5/01/2016
ETS-Lindgren	Antenna - Standard Gain Horn	3160-10	RF-038	4/30/2016
Rohde & Schwarz	Custom Filter Bank+PreAmp	SFUNIT RX	RF-323	3/21/2016
Rohde & Schwarz	Custom Filter Bank	SFUNIT RX	RF-324	3/21/2016
Rohde & Schwarz	Pre-Amp	TS-PR26	RF-199	11/14/2015
Rohde & Schwarz	Pre-Amp	TS-PR40	RF-258	11/14/2015
Rohde & Schwarz	Switch and Control Unit	OSP130	RF-249	1/9/2016
Rohde & Schwarz	Switch and Control Unit	OSP150	RF-250	1/9/2016
Rohde & Schwarz	Switch and Control Unit	OSP130	RF-018	12/18/2015
Rohde & Schwarz	Switch and Control Unit	OSP150	RF-019	12/18/2015
Rohde & Schwarz	Wideband Power Sensor	NRP-Z81	RF-282	04/10/2016
Rohde & Schwarz	Power Meter	NRP2	RF-237	04/11/2016

Maturo	Antenna Tower Controller	NCD	RF-002	N/A
Maturo	Device Positioner	TD1.5	RF003	N/A
Maturo	Device Positioner	TD1.5	RF-205	N/A
Maturo	System Controller	NCD-120	RF-327	N/A
Sunol Sciences	System Controller	SC110V	RF-001	N/A
Madge Tech	THP Monitor	PRH Temp 2000	EMC-681	11/5/2015
Madge Tech	THP Monitor	PRH Temp 2000	EMC-171	N/A
Fluke	Multimeter	87V	EMC-193	4/9/2016
Rohde & Schwarz	Software	EMC-32 V9.15	N/A	N/A
Huber Suhner	RF Cable	102A	RF-272	1/6/2016
Huber Suhner	RF Cable	Sucoflex 102A	RF-269	3/21/2016
Huber & Suhner	RF Cable	SucoFlex 106A	RF-351	3/21/2016
Huber & Suhner	RF Cable	SucoFlex 100	RF-350	3/21/2016
Micro-Coax	RF Cable	UTI Flex	RF-359	12/18/2016

Equipment used for Line Conducted Emissions Measurement				
Manufacturer	Description	Model #	Asset #	Cal/Ver Due
Rohde & Schwarz	EMI Test Receiver	ESR 3	EMC-669	11/3/2015
Teseq	LISN	NNB 51	EMC-057	5/28/2016
Teseq	LISN	NNB 51	EMC-187	9/24/2016
Micro-Coax	RF Cable	UFA210A-1-1800-50U50U	EMC-367	8/6/2016
Rohde & Schwarz	Test Software	EMC 32 V9.22	N/A	N/A
ETS	TILE SW	Ver 7.0	N/A	N/A

8 Test Site Description

8.1 Radiated Emissions Test Site

Radiated measurements were performed in a 3m semi-anechoic chamber, which met NSA requirements for the frequency range of 30MHz to 1000MHz. For measurements above 1 GHz, absorbers with a 2.4m X 2.4m configuration were placed on the ground plane between the receiving antenna and the EUT in accordance with the requirements of ANSI C63.4:2009.

8.1.1 Radiated Measurements in 30 - 1000 MHz

The EUT was positioned on a Turntable at a height of 80cm using a non-conducting table. A linearly polarized broadband antenna was positioned at 3m from the EUT periphery. The turntable is rotated 360 degrees and the antenna height varied from 1m to 4m to determine the highest emissions. This was repeated for both horizontal and vertical polarizations of the measurement antenna. The EUT was also rotated about its three orthogonal orientations to investigate emissions.

8.1.2 Radiated Measurements above 1GHz

The EUT was positioned on a turntable at a height of 150cm using a device positioner. A linearly polarized antenna was positioned at 3m from the EUT periphery. Guidelines in ANSI C63.10 2013 were followed with respect to maximizing emissions. The turntable was rotated 360 degrees, the antenna height maintained at 150cm and the device positioner rotated about its horizontal axis to determine the highest emissions. This was repeated for both horizontal and vertical polarizations of the measurement antenna. Measurements above 18GHz were performed at a distance of 1m.

8.2 Antenna port conducted measurements

All antenna port conducted measurements were performed on a bench-top setup consisting of a spectrum analyzer, power meter (as necessary), splitters/combiners (as necessary), attenuators, and pre-characterized RF cables.

The correction factors between the EUT and the spectrum analyzer was added internally in the analyzer settings. The plots displayed accounts for these correction factors.

8.3 Test Setup Diagrams

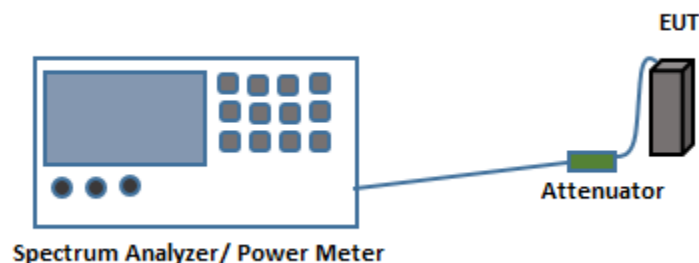


Fig.1. Test Setup for Antenna port conducted measurements

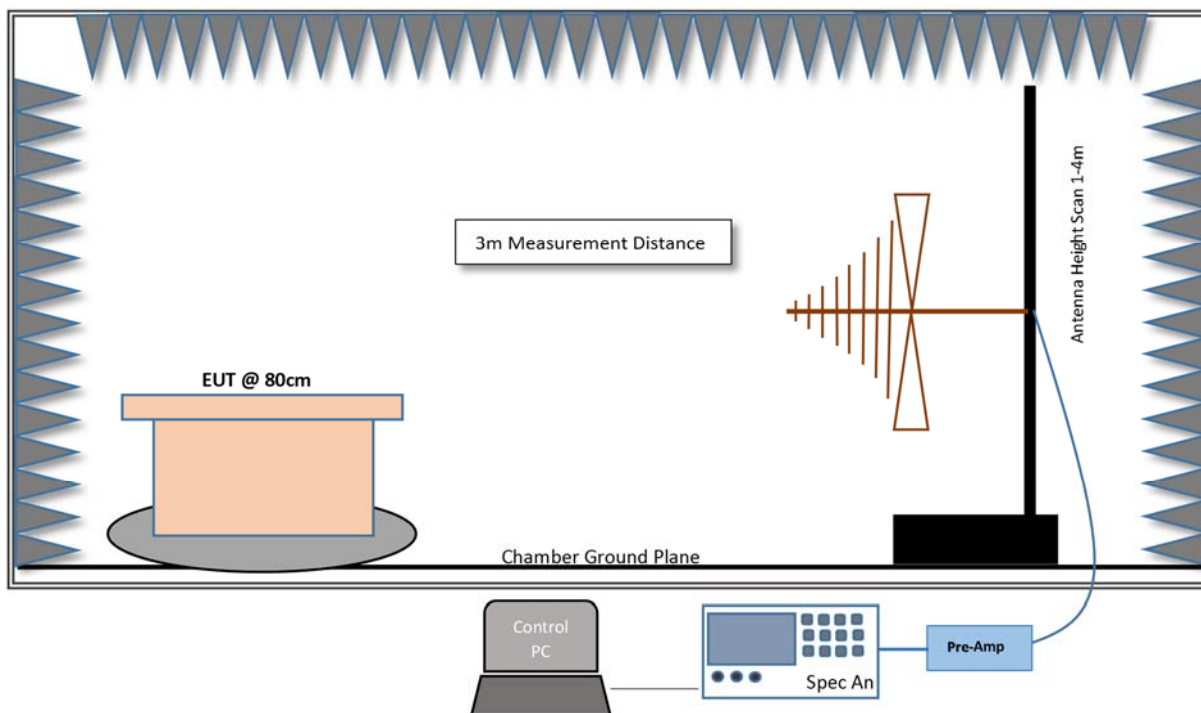


Fig.2. Test Setup for Radiated measurements in 30MHz- 1GHz Range

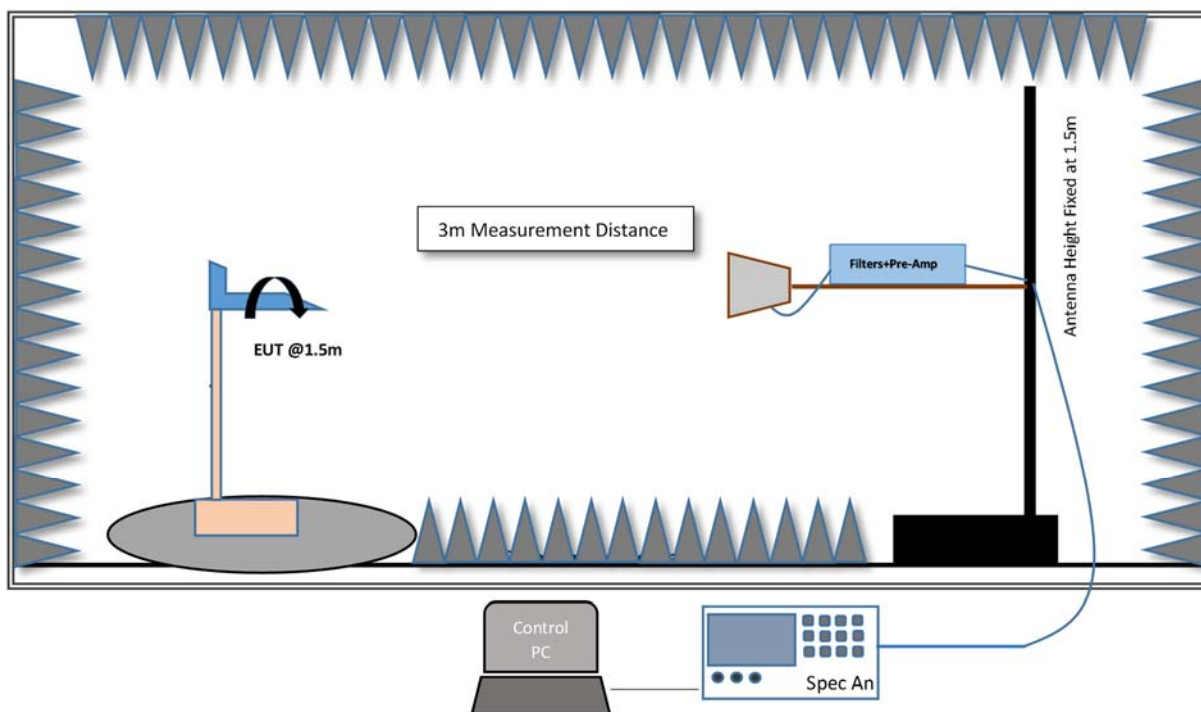


Fig.3. Test Setup for Radiated measurements in 1GHz- 18GHz Range

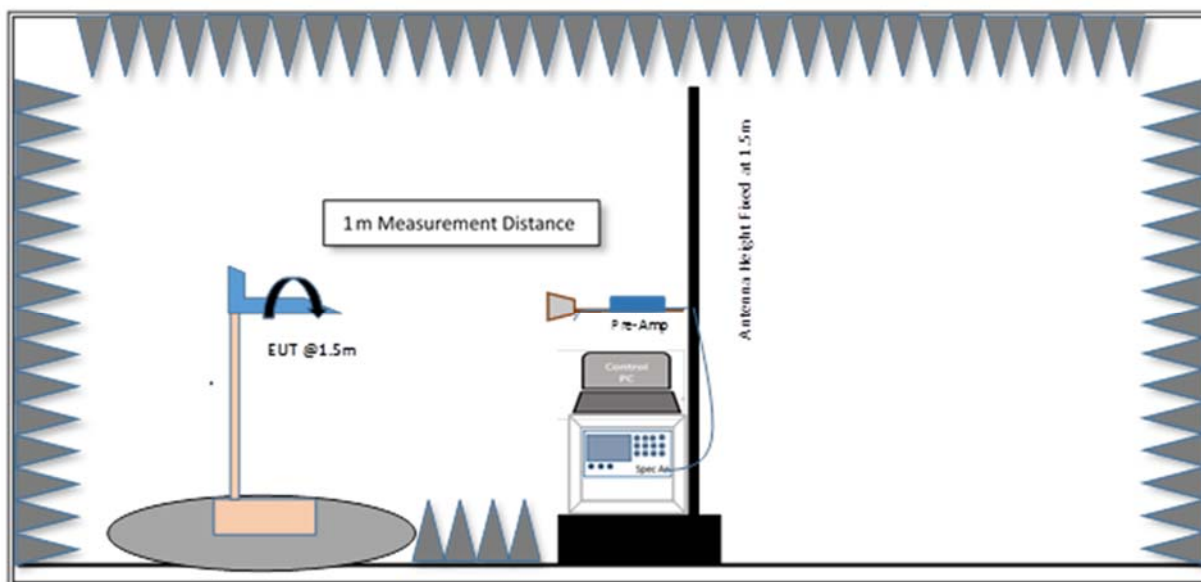


Fig.4. Test Setup for Radiated measurements >18GHz

9 Test Results- Conducted

9.1 Duty Cycle

9.1.1 Test Requirement:

Reporting and measurement purposes only.

9.1.2 Test Method:

Measurements were performed according to the procedure defined in ANSI C63.10 (2013) American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices

Spectrum Analyzer Settings:

RBW = 1 MHz

VBW = 3 MHz

Detector = Peak

Span = 0 Hz

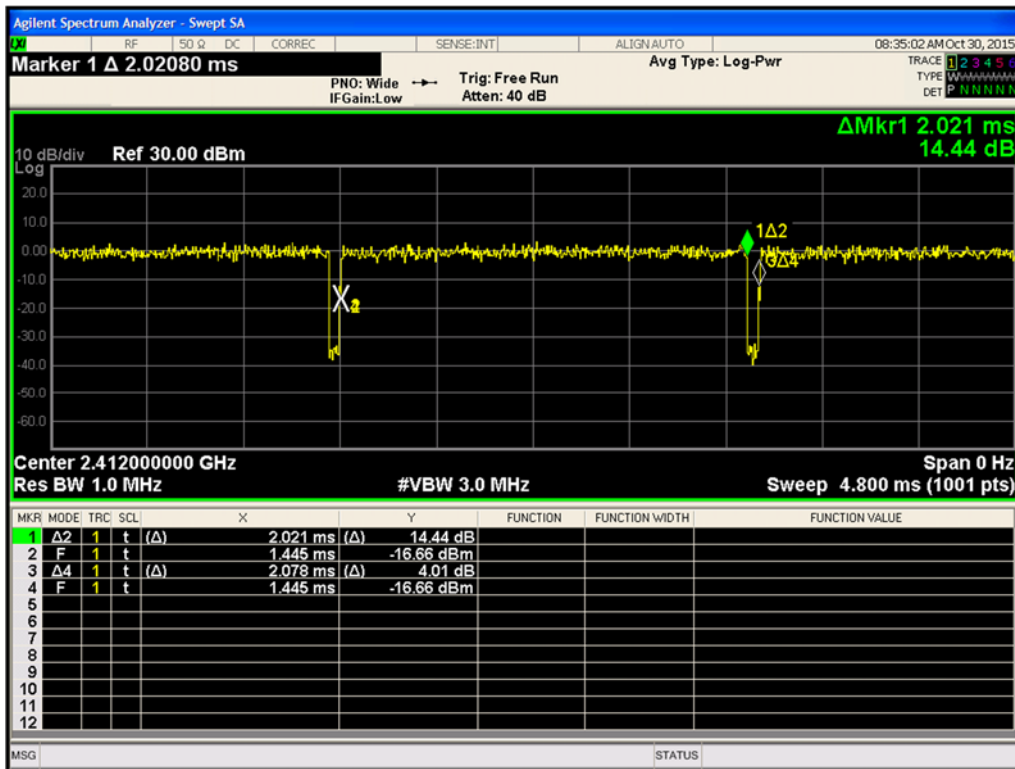
Sweep points > 100

9.1.3 Limits:

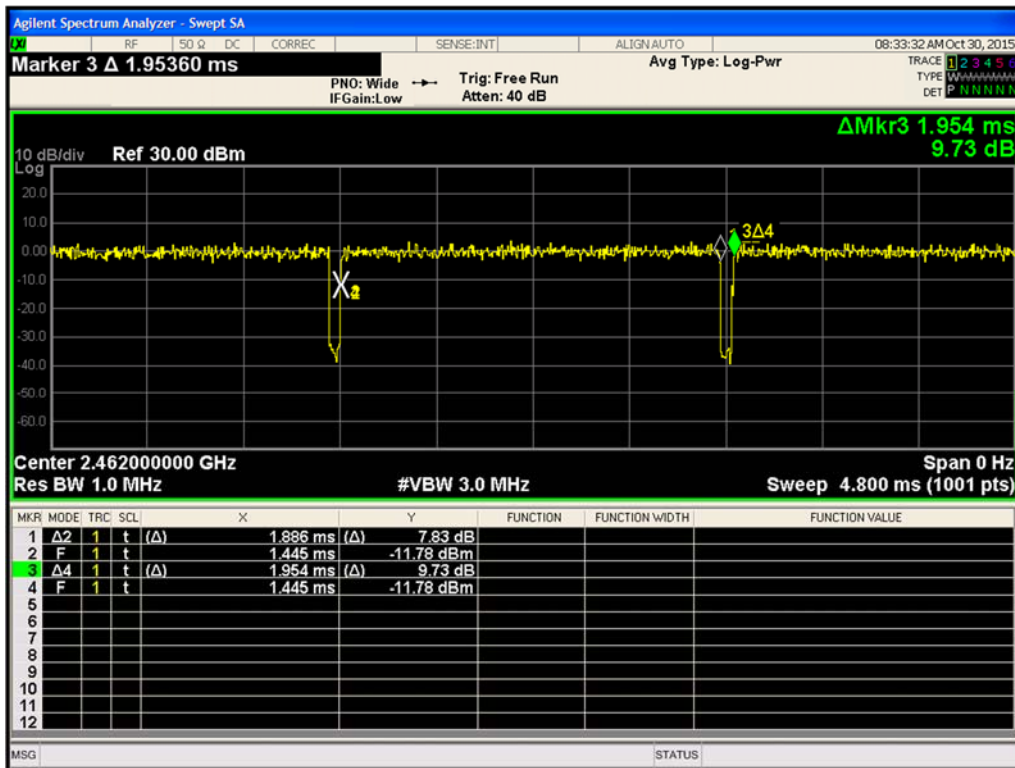
N/A

9.1.4 Test Results:

Mode	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11g	2.021	2.078	97.26	0.12
802.11n	1.886	1.954	96.52	0.15



Plot 9-1 Duty Cycle - 802.11g



Plot 9-2 Duty Cycle - 802.11n

9.2 DTS Bandwidth

9.2.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (a)(2)

Industry Canada RSS-247 [5.2]

9.2.2 Test Method:

Measurements were performed according to the procedure defined in KDB 558074- Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 V03R03 and ANSI C63.10 (2013) American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices.

Spectrum Analyzer Settings:

RBW= 100 kHz

VBW= 300 kHz

Trace Mode= Peak Detector (Max Hold)

Sweep time= Auto

The in-built functionality of the Spectrum Analyzer is used to measure the 6-dB bandwidth.

9.2.3 Limits:

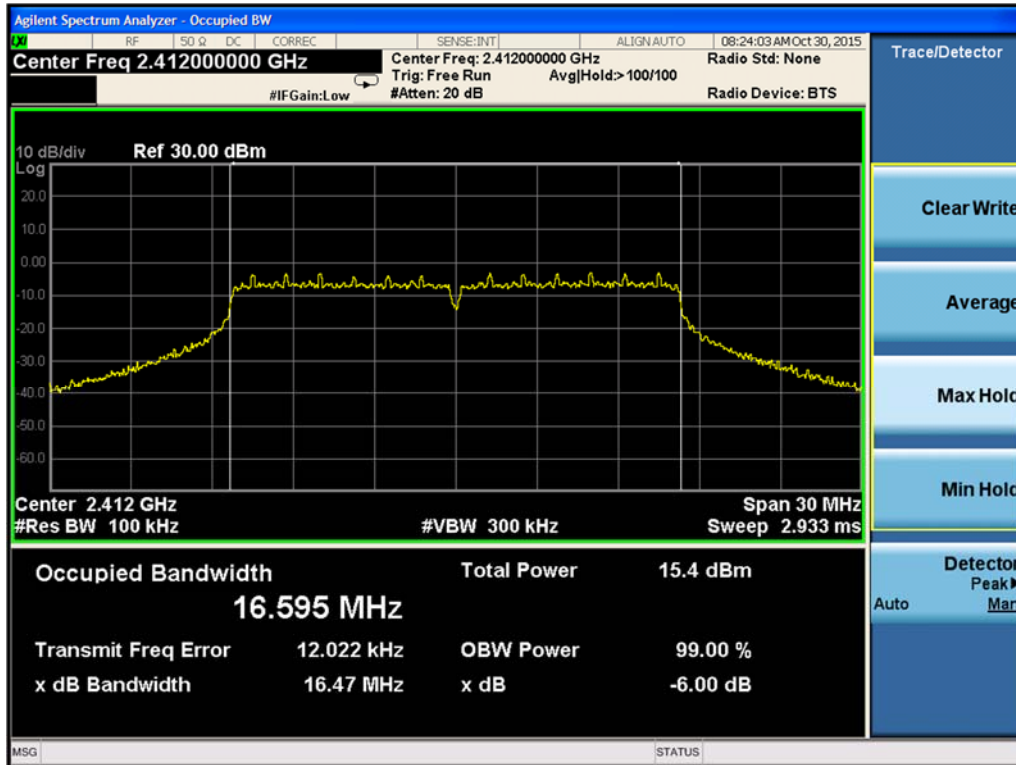
The 6-dB bandwidth shall be at least 500 kHz

9.2.4 Test Results:

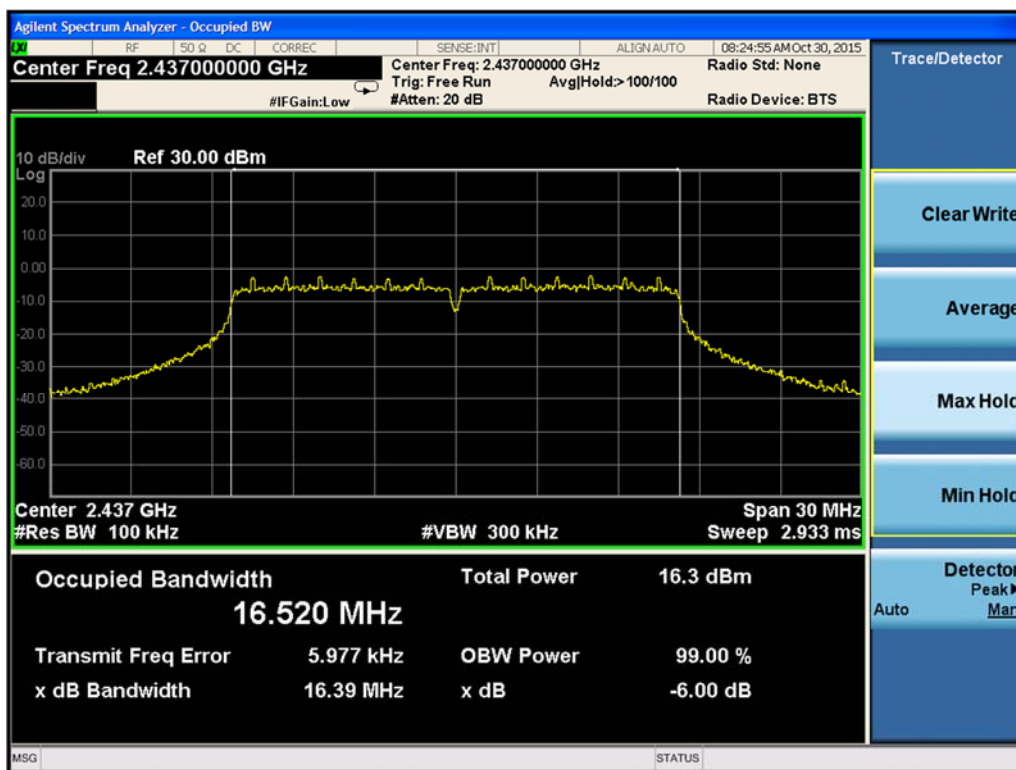
Frequency (MHz)	802.11 Mode	Data Rate (Mbps)	Bandwidth (MHz)	Limit (MHz)	Result
2412	g	6	16.47	> 0.5	Pass
2437	g	6	16.39	> 0.5	Pass
2462	g	6	16.39	> 0.5	Pass
2412	n	MCS0	17.64	> 0.5	Pass
2437	n	MCS0	17.59	> 0.5	Pass
2462	n	MCS0	17.60	> 0.5	Pass

Table 9-1. DTS Bandwidth

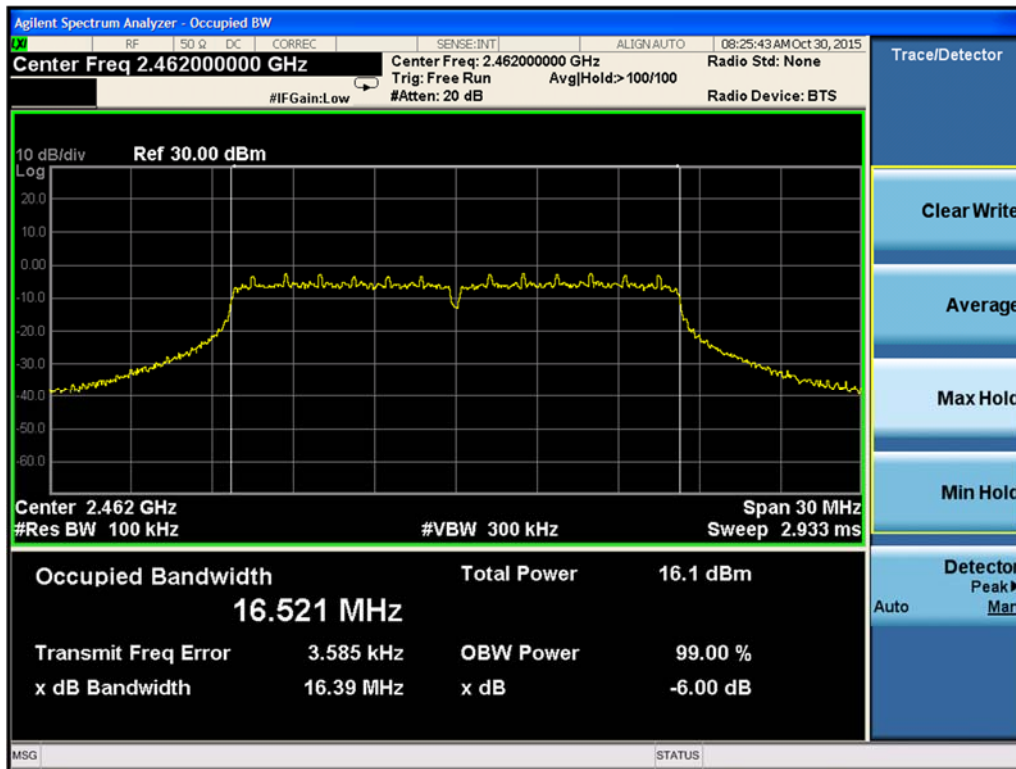
9.2.5 Test Data:



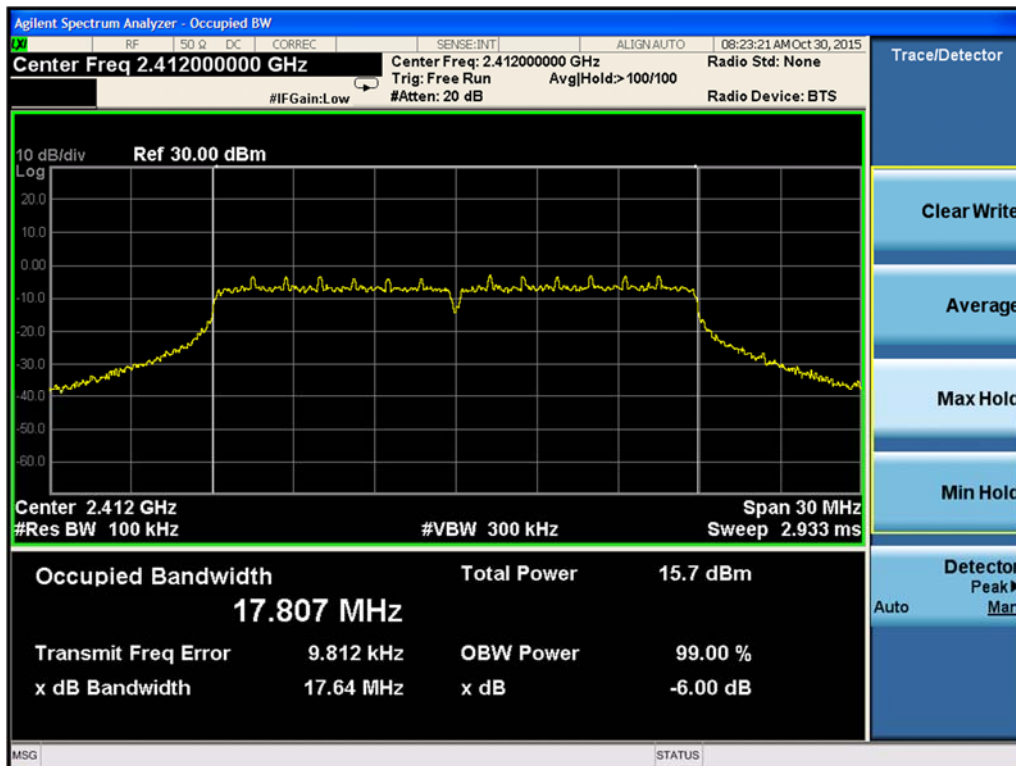
Plot 9-3 DTS Bandwidth 802.11g - Ch.1 (2412 MHz)



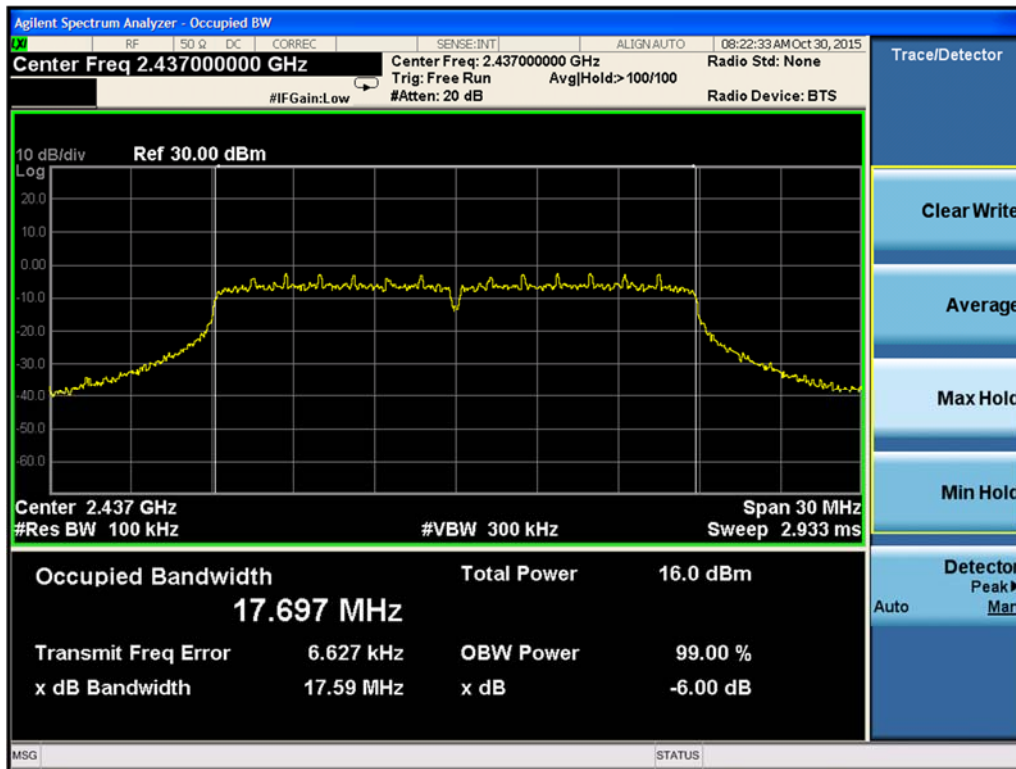
Plot 9-4 DTS Bandwidth 802.11g - Ch.6 (2437 MHz)



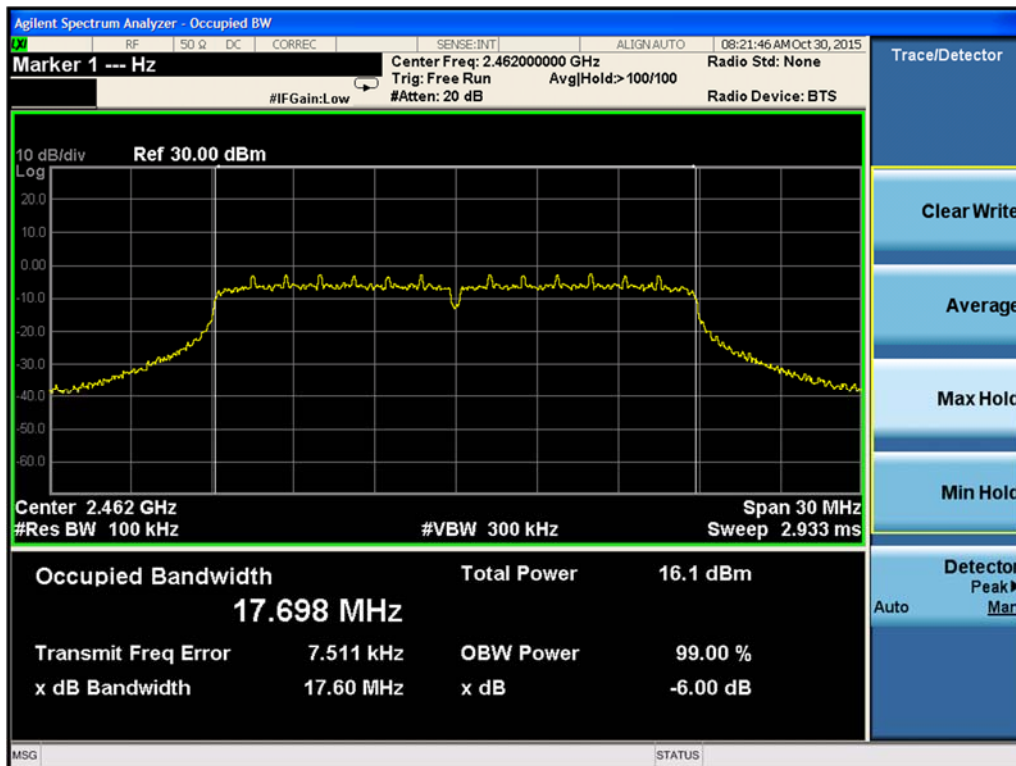
Plot 9-5 DTS Bandwidth 802.11g - Ch.11 (2462 MHz)



Plot 9-6 DTS Bandwidth 802.11n - Ch.1 (2412 MHz)



Plot 9-7 DTS Bandwidth 802.11n - Ch.6 (2437 MHz)



Plot 9-8 DTS Bandwidth 802.11n - Ch.11 (2462 MHz)

9.3 99% Bandwidth

9.3.1 Test Requirement:

Reporting and measurement purposes only.

9.3.2 Test Method:

Measurements were performed according to the procedure defined in ANSI C63.10 (2013) American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices.

Spectrum Analyzer settings:

Set analyzer center frequency to the nominal EUT channel frequency

Span set to between 1.5 and 5.0 times the DTS bandwidth

RBW to: 1% to 5% of the OBW

VBW $\geq$ 3 RBW

Detector = Peak

Sweep time = auto couple

Trace mode = max hold

Use the 99% power bandwidth function of the instrument.

9.3.3 Limit:

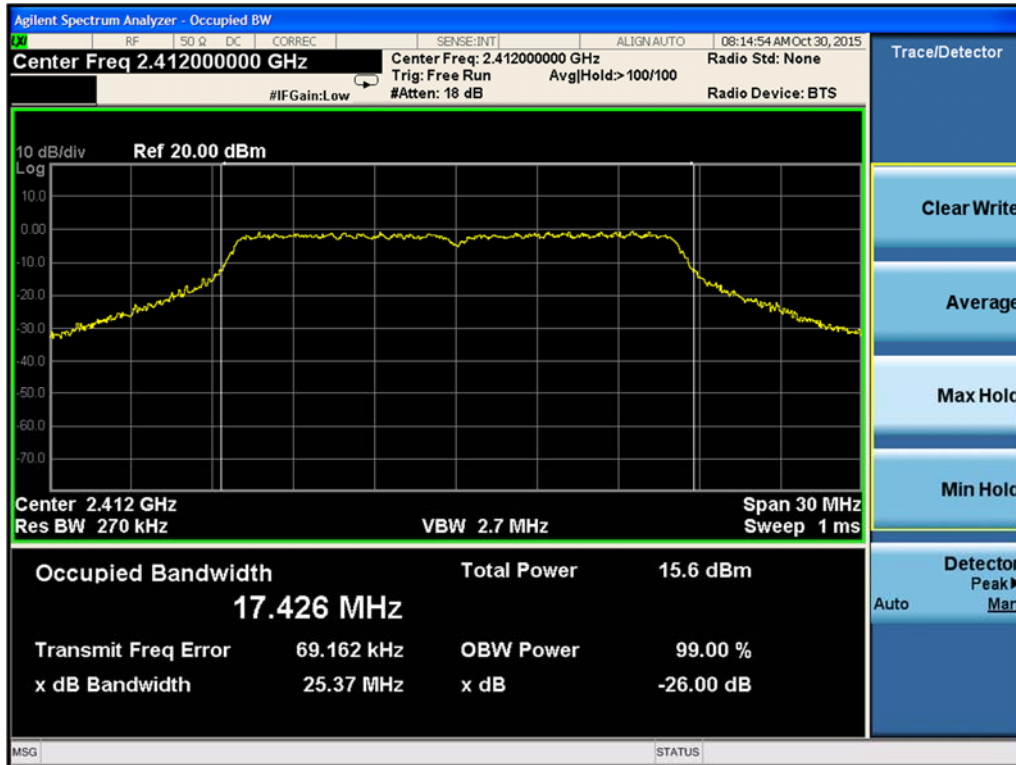
N/A

9.3.4 Test Results:

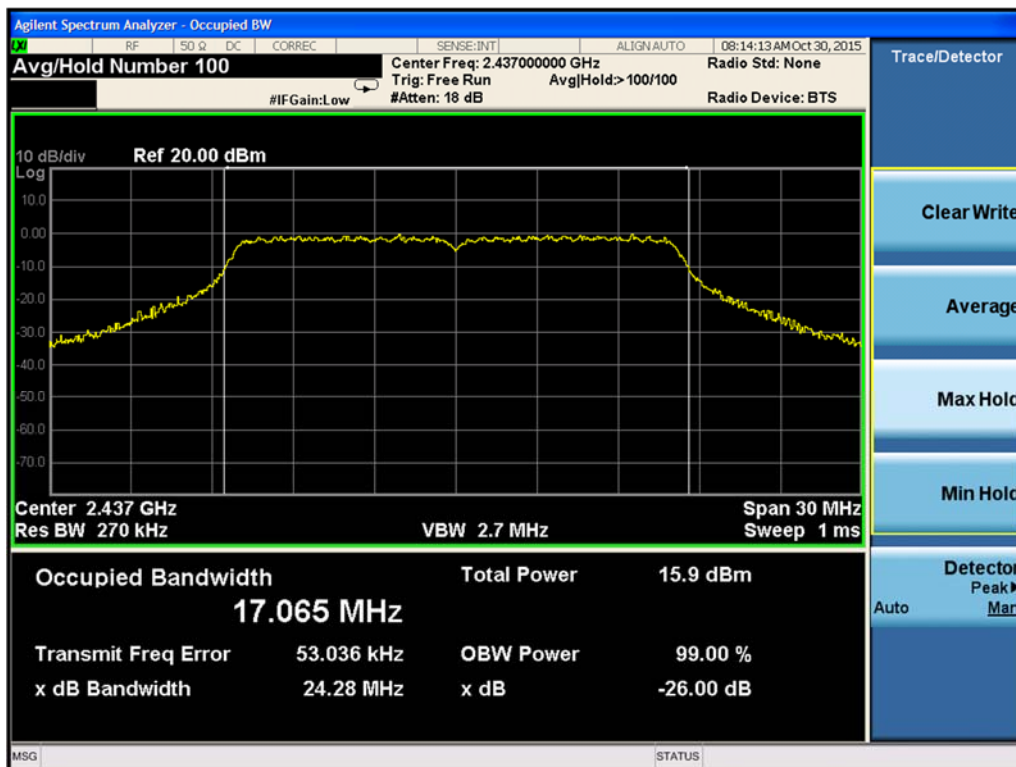
Frequency (MHz)	802.11 Mode	Data Rate (Mbps)	99% Bandwidth (MHz)
2412	g	6	17.426
2437	g	6	17.065
2462	g	6	17.112
2412	n	MCS0	18.421
2437	n	MCS0	18.104
2462	n	MCS0	18.132

Table 9-2. 99%/Occupied Bandwidth

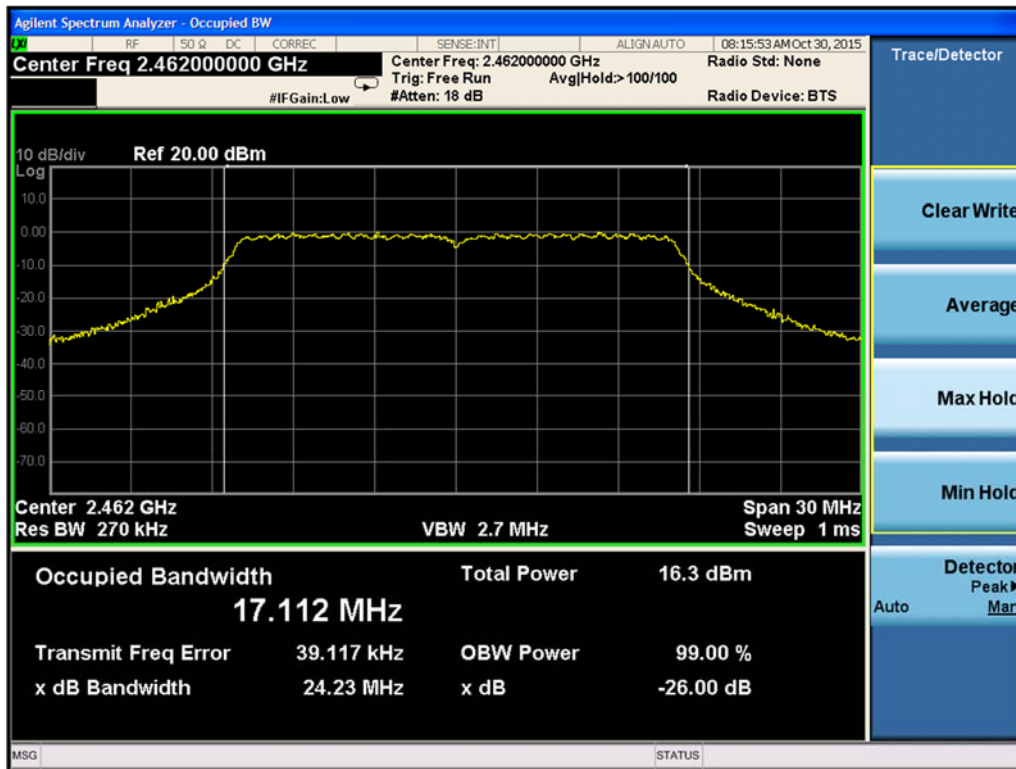
9.3.5 Test Data:



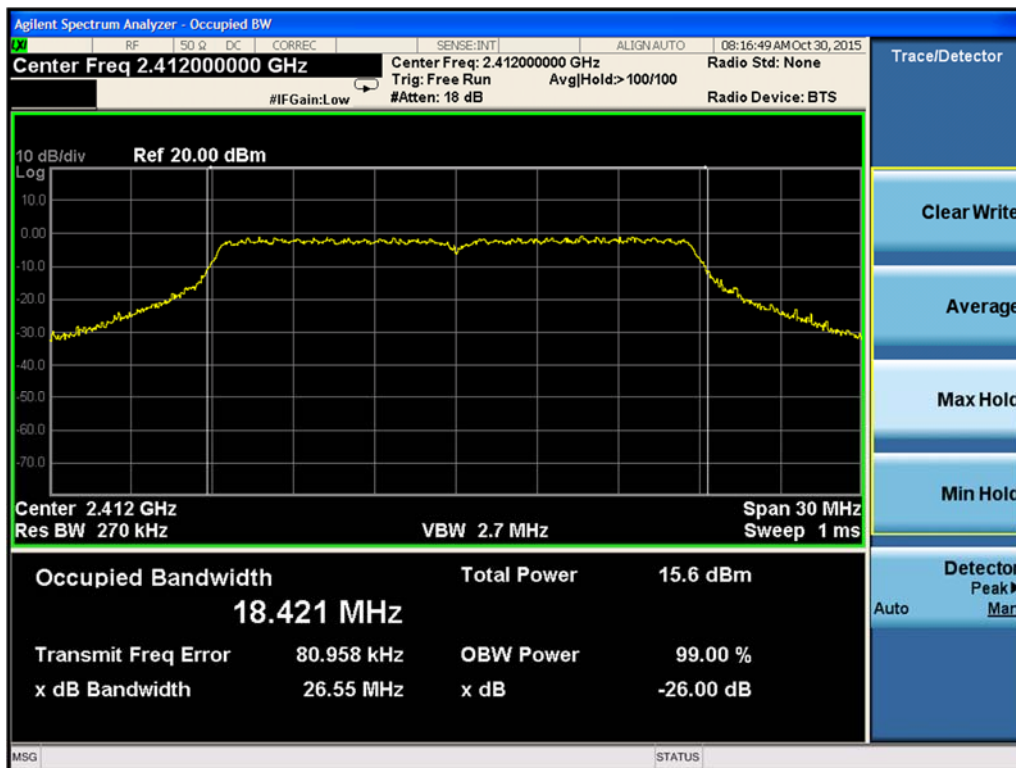
Plot 9-9 99% Occupied Bandwidth 802.11g - Ch.1 (2412 MHz)



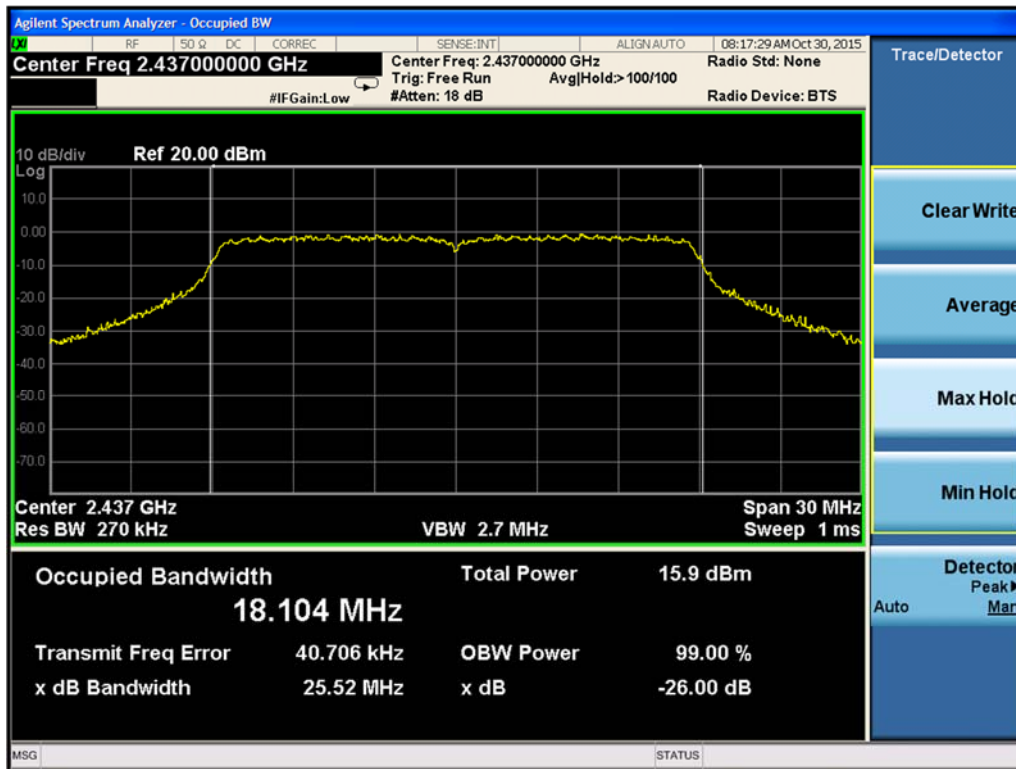
Plot 9-10 99% Occupied Bandwidth 802.11g - Ch.6 (2437 MHz)



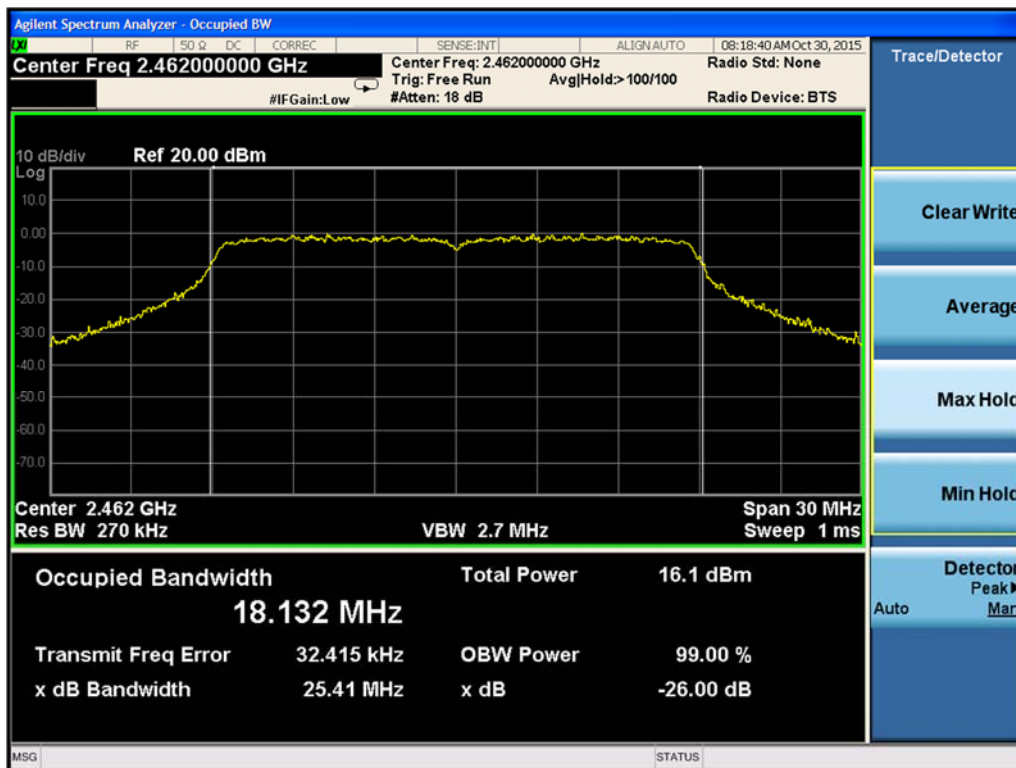
Plot 9-11 99% Occupied Bandwidth 802.11g - Ch.11 (2462 MHz)



Plot 9-12 99% Occupied Bandwidth 802.11n - Ch.1 (2412 MHz)



Plot 9-13 99% Occupied Bandwidth 802.11n - Ch.6 (2437 MHz)



Plot 9-14 99% Occupied Bandwidth 802.11n - Ch.11 (2462 MHz)

9.4 Output Power

9.4.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (b)(3)

Industry Canada RSS-247 [5.2]

9.4.2 Test Method:

Measurements were performed according to the procedure defined in KDB 558074- Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 V03R03 and ANSI C63.10 (2013) American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices.

Power Meter Settings:

Peak Power:

The maximum peak conducted output power was measured using a broadband peak RF power meter. The power meter had a video bandwidth that is greater than or equal to the DTS bandwidth and utilized a fast-responding diode detector.

Spectrum Analyzer settings:

Average Power:

AVGSA-1 Alternative Method of KDB 558074.

RBW= 1-5% of the OBW, not to exceed 1 MHz

VBW ≥ 3 x RBW

Trace Mode= Average Detector (Max Hold)

Number of points in sweep ≥ 2 x span / RBW

Sweep time= Auto

Trace mode = average at least 100 traces in power average mode

Power integration over the 99% Occupied Bandwidth.

Average Output Power = Measured Average Power + Duty Cycle Correction Factor

i.e. 8.0 dBm + 0.15 dB = 8.15 dBm

Duty Cycle Correction Factor = $10 \times \log\left(\frac{1}{Duty\ Cycle}\right)$

i.e. $10 \times \log\left(\frac{1}{0.975}\right) = 0.11\ dB$

Duty Cycle Corrections are inputted as Spectrum Analyzer offset.

9.4.3 Limits:

15.247: Max conducted output power= 1 Watt (30dBm).

RSS-247: 1 W (30dBm) conducted and 4 W (36dBm) EIRP.

9.4.4 Test Results:

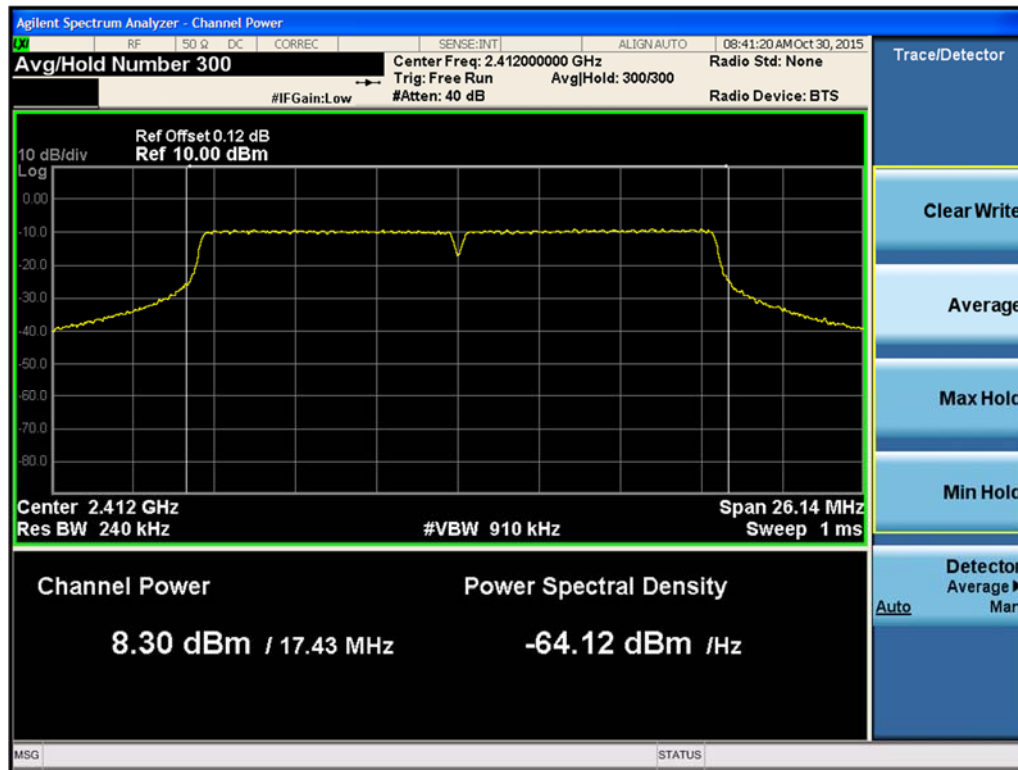
Frequency (MHz)	802.11 Mode	Data Rate	Peak Conducted Output Power (dBm)	Limit (FCC)	Result
2412	g	6	19.31	30	Pass
2437	g	6	19.70	30	Pass
2462	g	6	19.73	30	Pass
2412	n	MCS0	19.51	30	Pass
2437	n	MCS0	19.75	30	Pass
2462	n	MCS0	19.60	30	Pass

Table 9-3. Peak Output Power

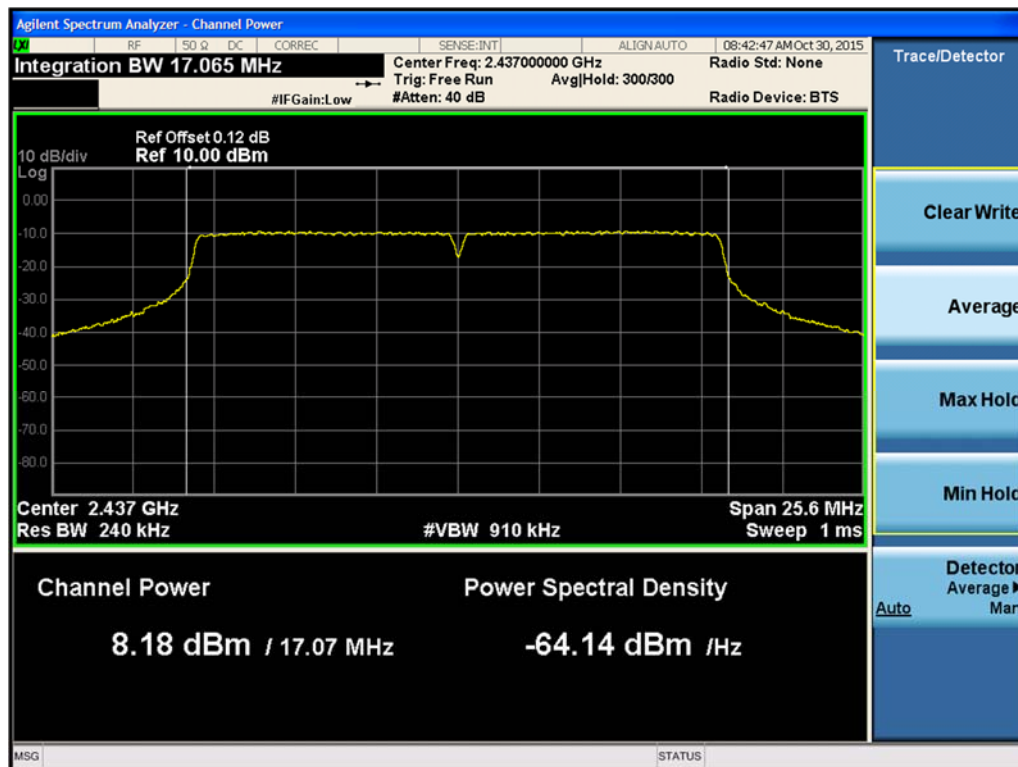
Frequency (MHz)	802.11 Mode	Data Rate	Average Conducted Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (IC)	Result
2412	g	6	8.30	-0.55	7.75	36	Pass
2437	g	6	8.18	-0.55	7.63	36	Pass
2462	g	6	8.15	-0.55	7.6	36	Pass
2412	n	MCS0	8.30	-0.55	7.75	36	Pass
2437	n	MCS0	8.13	-0.55	7.58	36	Pass
2462	n	MCS0	8.39	-0.55	7.84	36	Pass

Table 9-4. Average Output Power

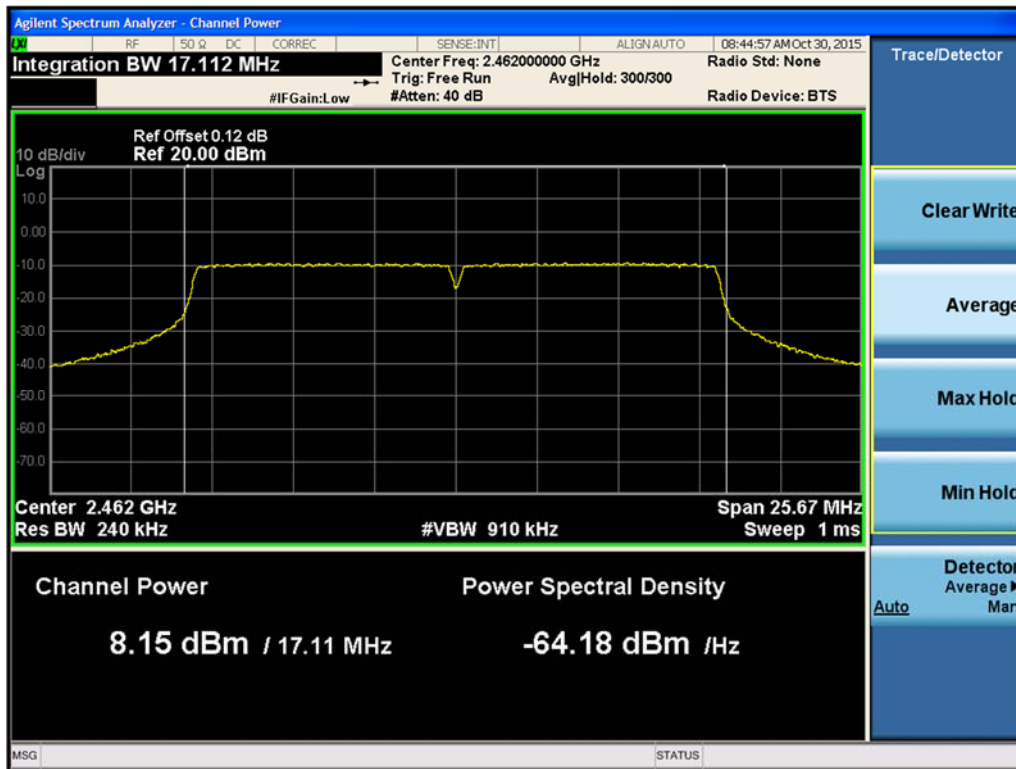
9.4.5 Test Data:



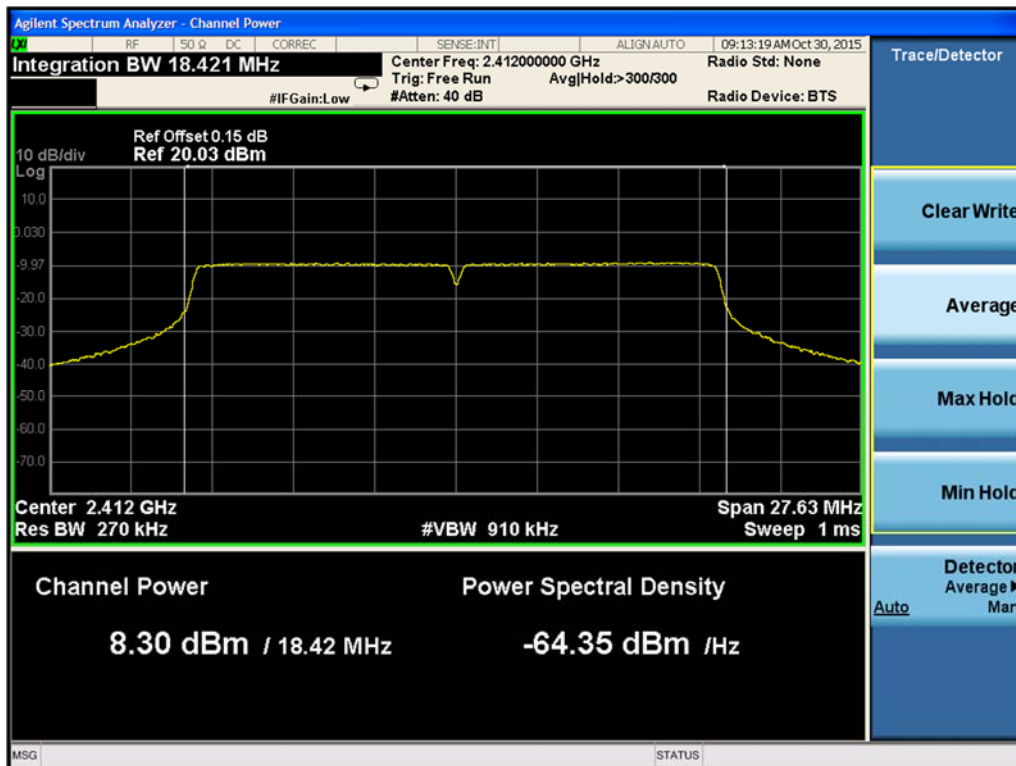
Plot 9-15 Average Output Power 802.11g - Ch.1 (2412 MHz)



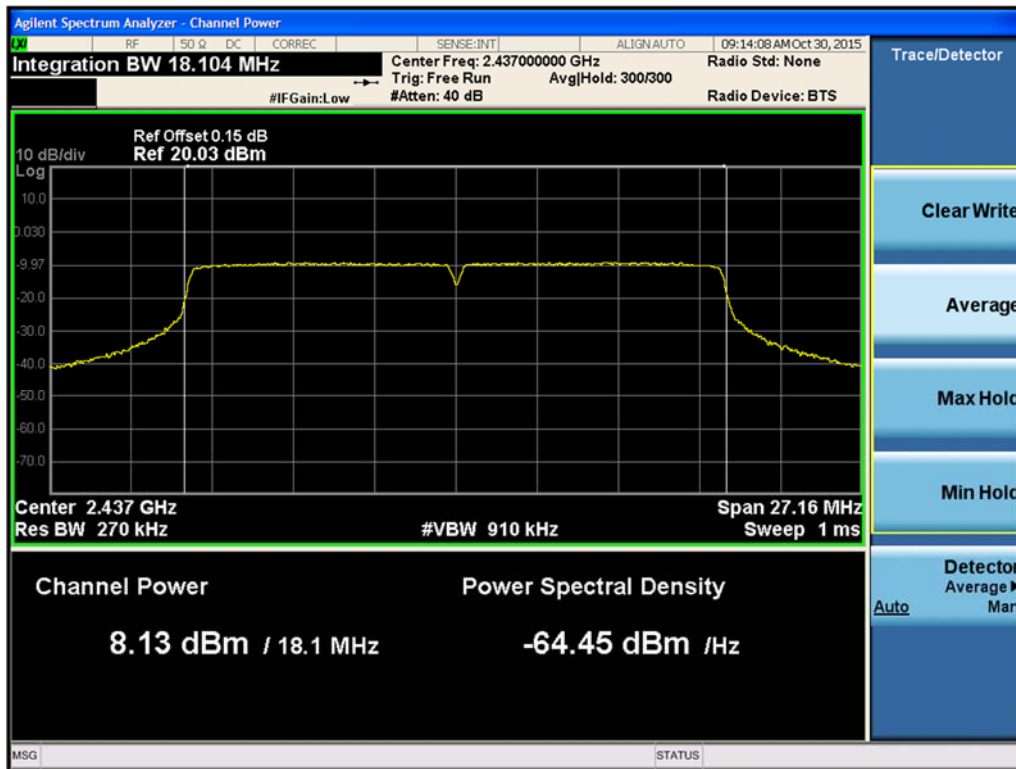
Plot 9-16 Average Output Power 802.11g - Ch.6 (2437 MHz)



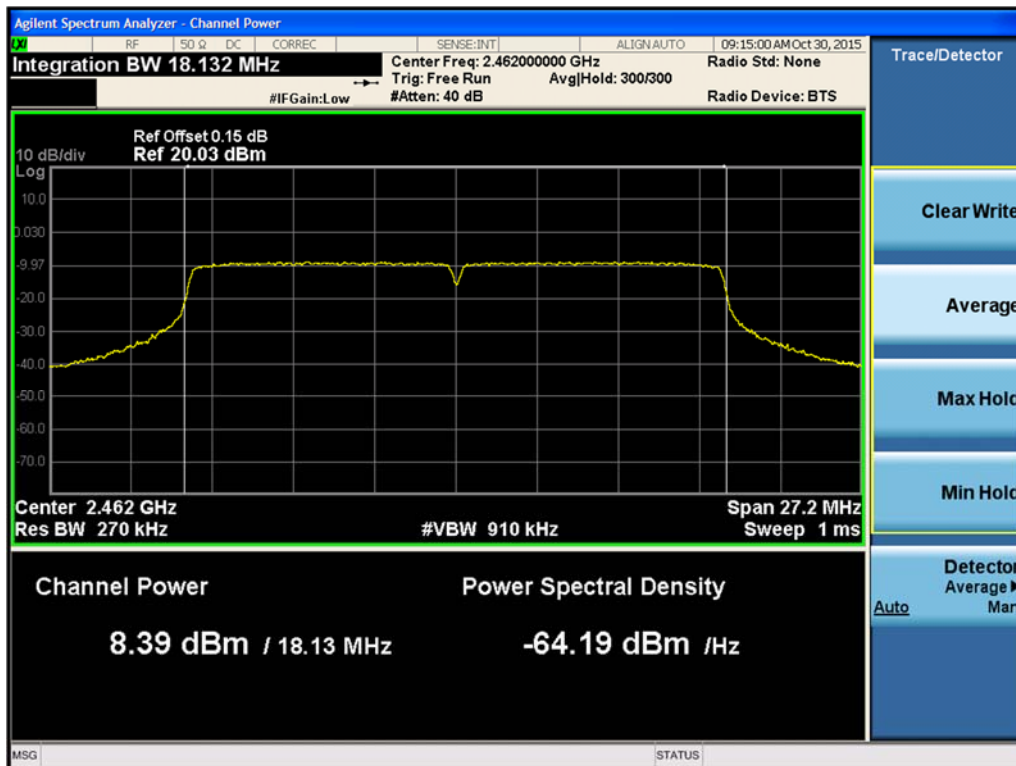
Plot 9-17 Average Output Power 802.11g - Ch.11 (2462 MHz)



Plot 9-18 Average Output Power 802.11n - Ch.1 (2412 MHz)



Plot 9-19 Average Output Power 802.11n - Ch.6 (2437 MHz)



Plot 9-20 Average Output Power 802.11n - Ch.11 (2462 MHz)

9.5 Power Density

9.5.1 Test Requirement:

FCC CFR 47 Rule Part 15.247 (e)

Industry Canada RSS-247 Issue 1 [5.2]

9.5.2 Test Method:

Measurements were performed according to the procedure defined in KDB 558074- Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 V03R03 and ANSI C63.10 (2013) American National Standard of Procedure for Compliance Testing of Unlicensed Wireless Devices.

Spectrum Analyzer settings:

Set analyzer center frequency to DTS channel center frequency.

Span to at least 1.5 times the DTS bandwidth

RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$

VBW $\geq 3 \text{ RBW}$

Detector = Peak

Sweep time = auto couple

Trace mode = max hold

Use the peak marker function to determine the maximum amplitude level within the RBW

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

9.5.3 Limits:

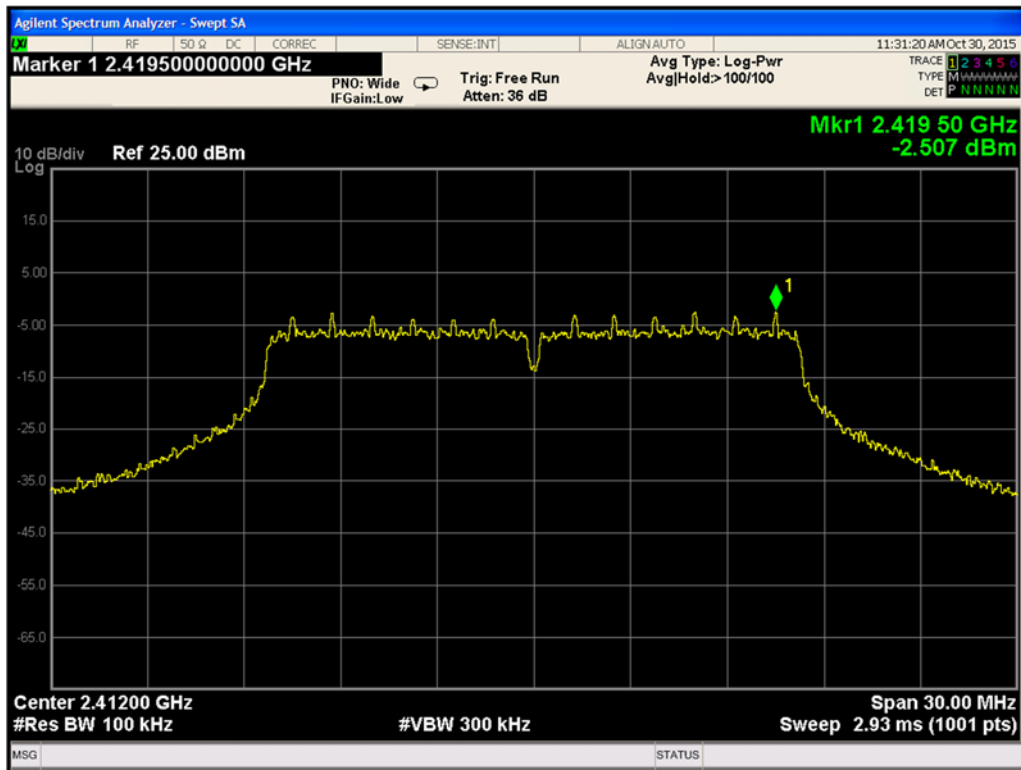
The maximum permissible power density is 8 dBm/3kHz.

9.5.4 Test Results:

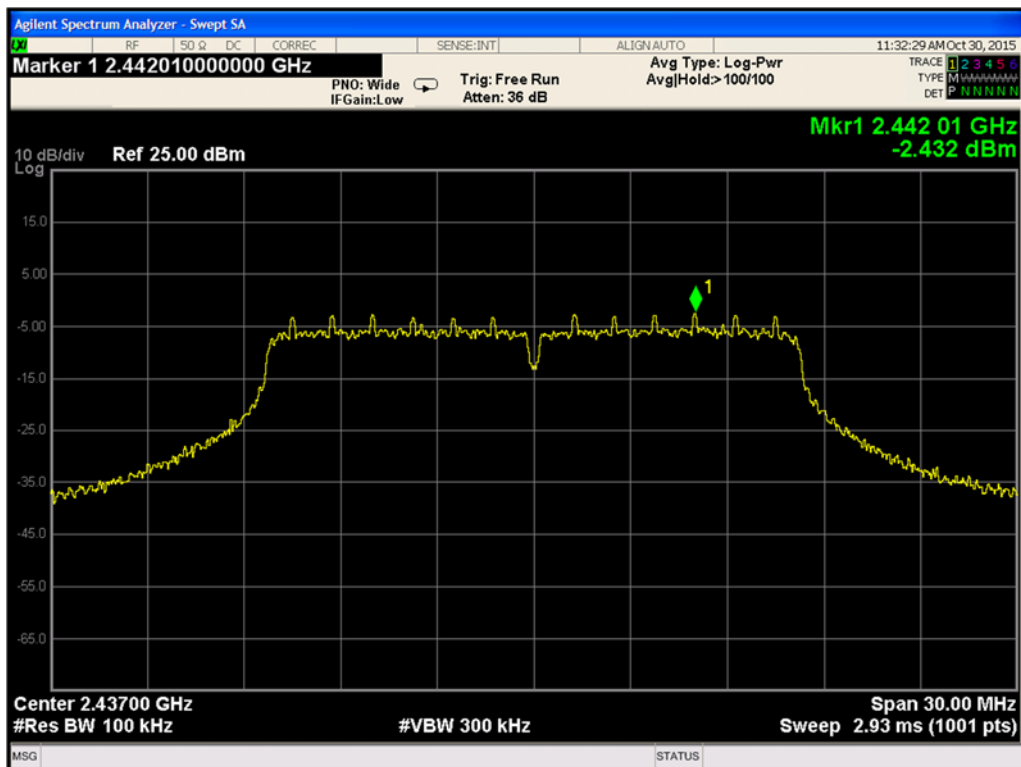
Frequency (MHz)	802.11 Mode	Data Rate	Power Spectral Density (dBm/100kHz)	Limit (dBm/3kHz)	Result
2412	g	6	-2.507	8	Pass
2437	g	6	-2.432	8	Pass
2462	g	6	-2.740	8	Pass
2412	n	MCS0	-2.387	8	Pass
2437	n	MCS0	-2.606	8	Pass
2462	n	MCS0	-2.371	8	Pass

Table 9-5. Peak Power Density

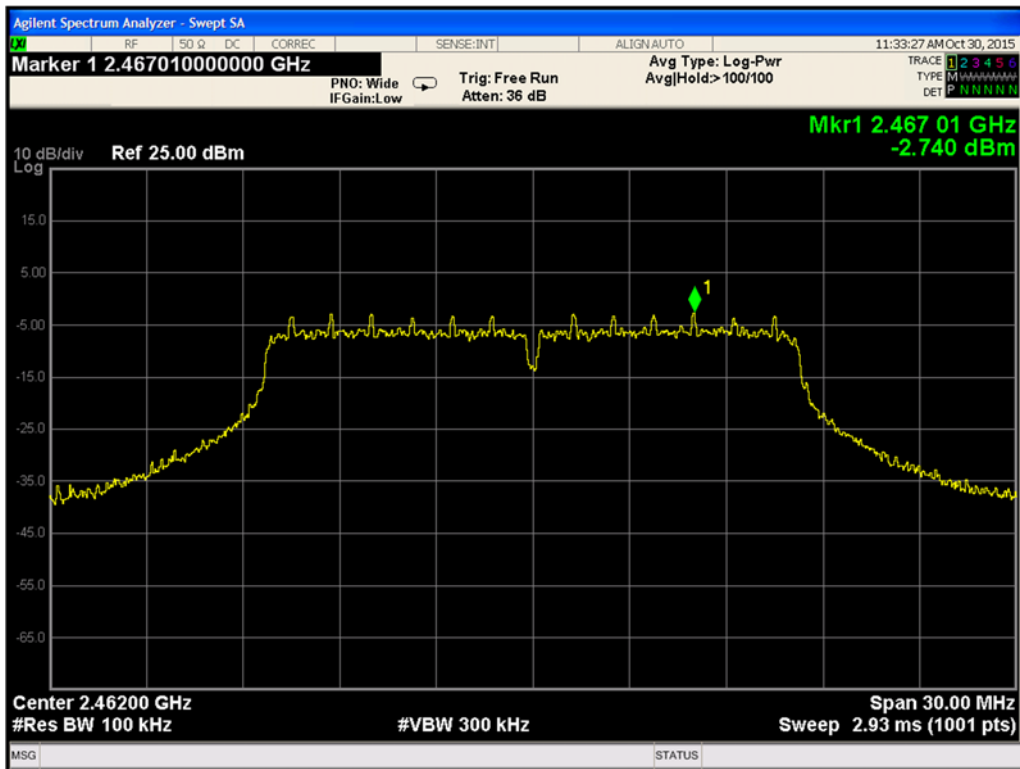
9.5.5 Test Data:



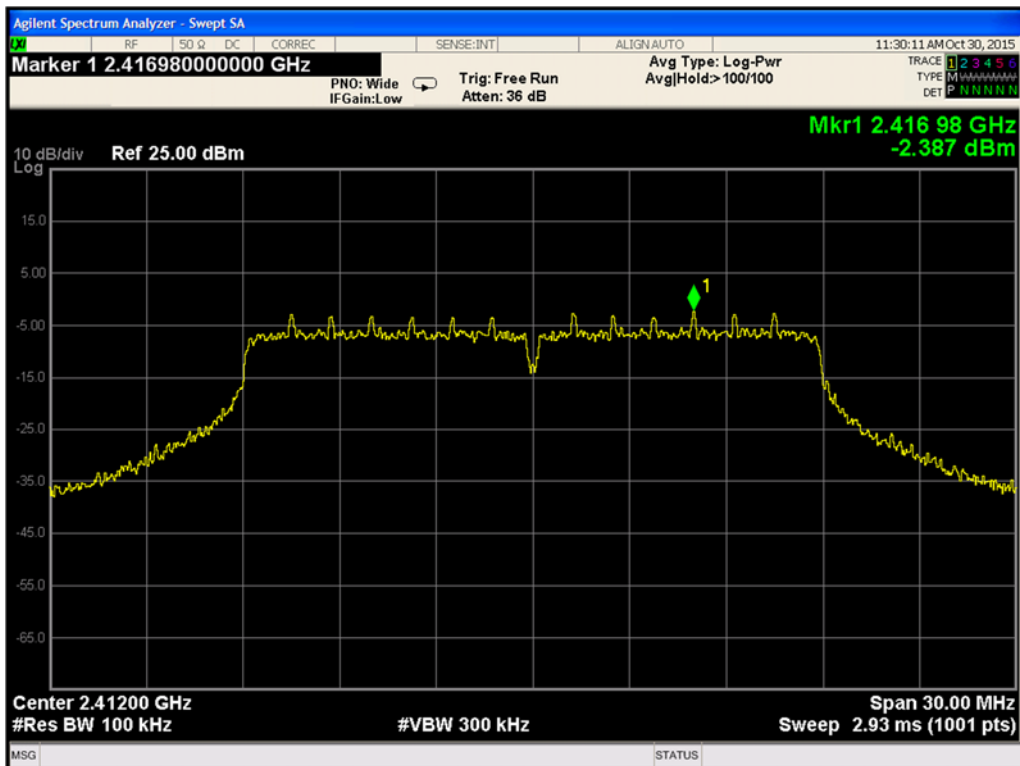
Plot 9-21 Peak Power Spectral Density 802.11g - Ch.1 (2412 MHz)



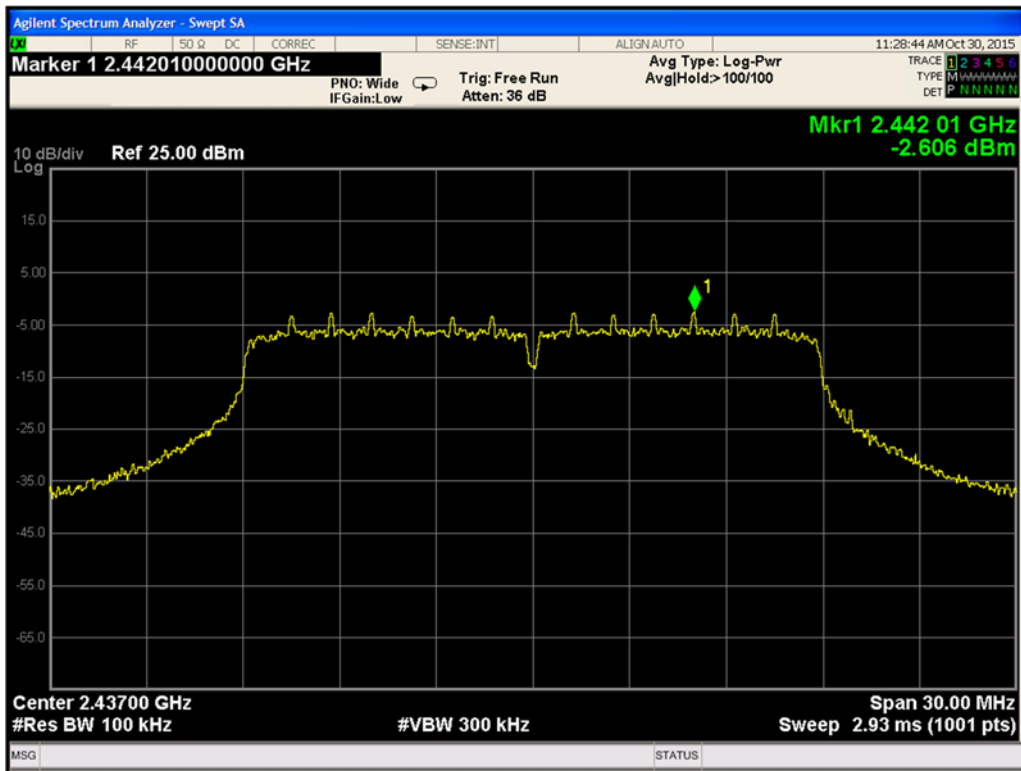
Plot 9-22 Peak Power Spectral Density 802.11g - Ch.6 (2437 MHz)



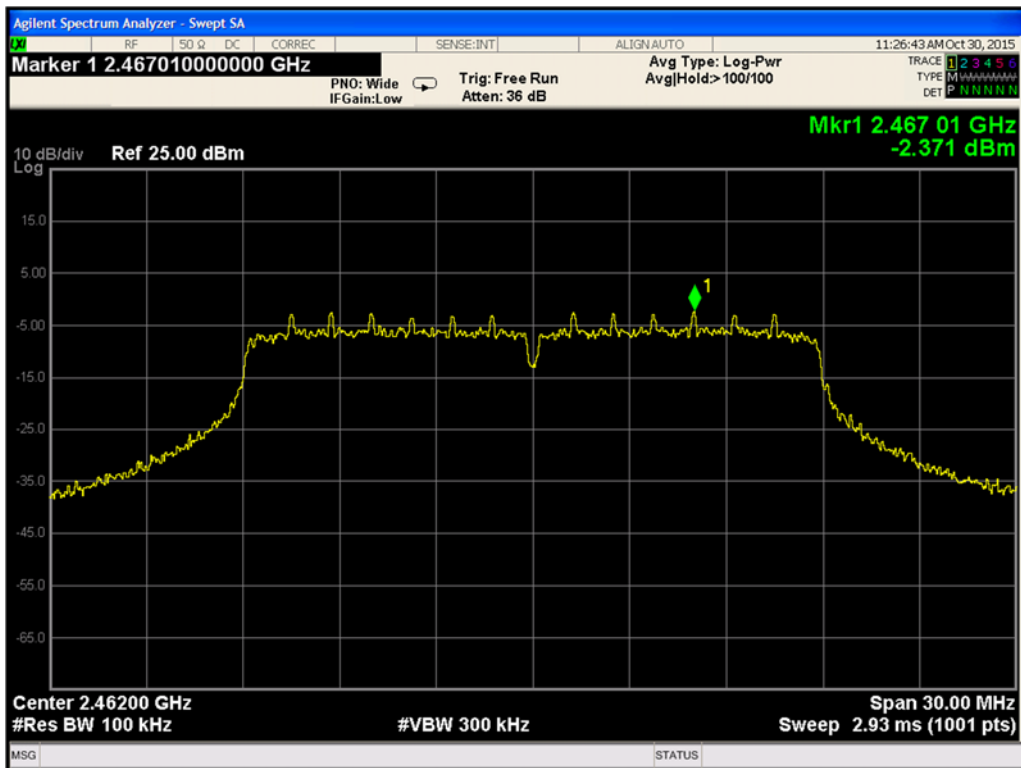
Plot 9-23 Peak Power Spectral Density 802.11g - Ch.11 (2462 MHz)



Plot 9-24 Peak Power Spectral Density 802.11n - Ch.1 (2412 MHz)



Plot 9-25 Peak Power Spectral Density 802.11n - Ch.6 (2437 MHz)



Plot 9-26 Peak Power Spectral Density 802.11n - Ch.11 (2462 MHz)