# TEST REPORT ADDENDUM - CONDUCTED

FROM

Test of: ActionTec Electronics Inc.T3200M

to

To: FCC CFR 47 Part 15.247 (DTS) & IC RSS-247

Test Report Serial No.: ATEC14-U5_Conducted Rev A

Note: this report is one of a set of four reports that together address the requirements of the standard for certification purposes.

| Master Document Number | Addendum Reports |
|---|---|
| ATEC14-U5_Master | ATEC14-U5_Conducted |
| | ATEC14-U5_Radiated |
| | ATEC14-U2 (FCC Part 15B & ICES_003) |

This report supersedes: NONE

Applicant: Actiontec Electronics Inc.
760 N Mary Avenue
Sunnyvale, California 94085
USA

Product Function: Wireless 802.11ac Bonded VDSL2 Modem Gateway with MoCA 2.0

Issue Date: 1st April 2016

**This Test Report is Issued Under the Authority of:**

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ACCREDITED
TESTING CERT #2381.01

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# 1. DOCUMENT HISTORY

| Document History | | |
|---|---|---|
| Revision | Date | Comments |
| Draft | | |
| Rev A | 1st April 2016 | Initial release. |
| | | |
| | | |
| | | |
| | | |
| | | |

In the above table the latest report revision will replace all earlier versions.

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# 2. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy to read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by MiTest. MiTest is an automated test system developed by MiCOM Labs. MiTest is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.

The MiCOM Labs "MiTest" Automated Test System" (Patent Pending)

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# 3. TEST SUMMARY

List of Measurements

| Test Header | Result | Data Link |
|---|---|---|
| Conducted Results | | |
| 15.247(a)(2) **[IC RSS-247 5.2 (1)]** 6 dB & 99% Bandwidth | Complies | View Data |
| 15.247(b), 15.31(e) **[IC RSS-247 5.4 (4)]** Conducted Output Power | Complies | View Data |
| 15.247(d) **[IC RSS-247 5.5]** Emissions | Complies | - |
| (1) Conducted Emissions | Complies | - |
| (i) Conducted Spurious Emissions | Complies | View Data |
| (ii) Conducted Band-Edge Emissions | Complies | View Data |
| 15.247(e) **[IC RSS-247 5.2 (2)]** Power Spectral Density | Complies | View Data |

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# 4. TEST RESULTS

## 4.1. 6 dB & 99% Bandwidth

| Conducted Test Conditions for 6 dB and 99% Bandwidth | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.247 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | 6 dB and 99 % Bandwidth | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.247 (a)(2) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

Test Procedure for 6 dB and 99% Bandwidth Measurement
The bandwidth at 6 dB and 99 % was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency.

Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.

Test configuration and setup used for the measurement was per the Conducted Test Set-up specified in this document.

**Limits for 6 dB and 99% Bandwidth**

(a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions:

(2) Systems using digital modulation techniques may operate in the 902-928 MHz and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

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| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | CCK | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | Limit | Lowest Margin |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | KHz | MHz |
| 2412.0 | 9.058 | 9.058 | 9.058 | -- | 9.058 | 9.058 | ≥500.0 | -8.56 |
| 2437.0 | 9.058 | 9.058 | 9.058 | -- | 9.058 | 9.058 | ≥500.0 | -8.56 |
| 2462.0 | 9.058 | 8.577 | 9.058 | -- | 9.058 | 8.577 | ≥500.0 | -8.08 |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | Maximum 99% Bandwidth (MHz) | | |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | | | |
| 2412.0 | 12.184 | 12.024 | 12.024 | -- | 12.184 | | |
| 2437.0 | 11.944 | 11.703 | 11.864 | -- | 11.944 | | |
| 2462.0 | 11.944 | 11.703 | 11.784 | -- | 11.944 | | |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | Limit | Lowest Margin |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | KHz | MHz |
| 2412.0 | 16.353 | 16.273 | 16.433 | -- | 16.433 | 16.273 | ≥500.0 | -15.77 |
| 2437.0 | 16.353 | 16.353 | 16.433 | -- | 16.433 | 16.353 | ≥500.0 | -15.85 |
| 2462.0 | 16.353 | 16.032 | 16.353 | -- | 16.353 | 16.032 | ≥500.0 | -15.53 |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | Maximum 99% Bandwidth (MHz) | | |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | | | |
| 2412.0 | 16.593 | 16.593 | 16.593 | -- | 16.593 | | |
| 2437.0 | 16.593 | 16.513 | 16.593 | -- | 16.593 | | |
| 2462.0 | 16.513 | 16.513 | 16.513 | -- | 16.513 | | |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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**Equipment Configuration for 6 dB & 99% Bandwidth**

| | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | Limit | Lowest Margin |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | KHz | MHz |
| 2412.0 | 17.555 | 17.555 | 17.555 | -- | 17.555 | 17.555 | ≥500.0 | -17.06 |
| 2437.0 | 17.635 | 17.635 | 17.635 | -- | 17.635 | 17.635 | ≥500.0 | -17.14 |
| 2462.0 | 17.555 | 17.555 | 17.555 | -- | 17.555 | 17.555 | ≥500.0 | -17.06 |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | Maximum 99% Bandwidth (MHz) | | |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | | | |
| 2412.0 | 17.876 | 17.715 | 17.715 | -- | 17.876 | | |
| 2437.0 | 17.796 | 17.715 | 17.796 | -- | 17.796 | | |
| 2462.0 | 17.635 | 17.715 | 17.635 | -- | 17.715 | | |

| **Traceability to Industry Recognized Test Methodologies** | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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**Equipment Configuration for 6 dB & 99% Bandwidth**

| | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 85 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | Limit | Lowest Margin |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | KHz | MHz |
| 2422.0 | 35.271 | 35.752 | 35.752 | -- | 35.752 | 35.271 | ≥500.0 | -34.77 |
| 2437.0 | 36.393 | 36.393 | 36.393 | -- | 36.393 | 36.393 | ≥500.0 | -35.89 |
| 2452.0 | 36.393 | 36.393 | 36.393 | -- | 36.393 | 36.393 | ≥500.0 | -35.89 |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | Maximum 99% Bandwidth (MHz) | | |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | | | |
| 2422.0 | 36.072 | 36.232 | 36.232 | -- | 36.232 | | |
| 2437.0 | 36.393 | 36.393 | 36.393 | -- | 36.393 | | |
| 2452.0 | 36.393 | 36.393 | 36.393 | -- | 36.393 | | |

| **Traceability to Industry Recognized Test Methodologies** | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

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## 4.2. Conducted Output Power

| Conducted Test Conditions for Fundamental Emission Output Power | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.247 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | Output Power | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.247 (b) & (c) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

Test Procedure for Fundamental Emission Output Power Measurement
In the case of average power measurements an average power sensor was utilized.

For peak power measurements the spectrum analyzer built-in power function was used to integrate peak power over the 20 dB bandwidth.

Testing was performed under ambient conditions at nominal voltage only. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured, summed (Σ) and reported.

Test configuration and setup used for the measurement was per the Conducted Test Set-up specified in this document.
Supporting Information
Calculated Power = A + G + Y+ 10 log (1/x) dBm

A = Total Power [10*Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
G = Antenna Gain
Y = Beamforming Gain
x = Duty Cycle (average power measurements only)

**Limits for Fundamental Emission Output Power**
(b) The maximum peak conducted output power of the intentional radiator shall not exceed the following for non-frequency hopping systems:

(3) For systems using digital modulation in the 902-928 MHz and 2400-2483.5 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(c) Operation with directional antenna gains greater than 6 dBi.
(1) Fixed point-to-point operation:
(i) Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

(iii) Fixed, point-to-point operation, as used in paragraphs (c)(1)(i) and (c)(1)(ii) of this section, excludes the use of point-to-multipoint systems, omnidirectional applications, and multiple co-located intentional radiators transmitting the same information. The operator of the spread spectrum or digitally modulated intentional radiator or, if the equipment is professionally installed, the installer is responsible for ensuring that the system is used exclusively for fixed, point-to-point operations. The instruction manual furnished with the intentional radiator shall contain language in the installation

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instructions informing the operator and the installer of this responsibility.

(2) In addition to the provisions in paragraphs (b)(3), (b)(4) and (c)(1)(i) of this section, transmitters operating in the 2400-2483.5 MHz band that emit multiple directional beams, simultaneously or sequentially, for the purpose of directing signals to individual receivers or to groups of receivers provided the emissions comply with the following:

(i) Different information must be transmitted to each receiver.

(ii) If the transmitter employs an antenna system that emits multiple directional beams but does not do emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device, i.e., the sum of the power supplied to all antennas, antenna elements, staves, etc. and summed across all carriers or frequency channels, shall not exceed the limit specified in paragraph (b)(1) or (b)(3) of this section, as applicable. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as follows:

(A) The directional gain shall be calculated as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or stave having the highest gain.

(B) A lower value for the directional gain than that calculated in paragraph (c)(2)(ii)(A) of this section will be accepted if sufficient evidence is presented, e.g., due to shading of the array or coherence loss in the beamforming.

(iii) If a transmitter employs an antenna that operates simultaneously on multiple directional beams using the same or different frequency channels, the power supplied to each emission beam is subject to the power limit specified in paragraph (c)(2)(ii) of this section. If transmitted beams overlap, the power shall be reduced to ensure that their aggregate power does not exceed the limit specified in paragraph (c)(2)(ii) of this section. In addition, the aggregate power transmitted simultaneously on all beams shall not exceed the limit specified in paragraph (c)(2)(ii) of this section by more than 8 dB.

(iv) Transmitters that emit a single directional beam shall operate under the provisions of paragraph (c)(1) of this section.

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| Equipment Configuration for Average Output Power |
|---|

| | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | CCK | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Output Power + DCCF (+0.04 dB) (dBm) Port(s) | | | | Calculated Total Power Σ Port(s) | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm | dBm | dB | |
| **2412.0** | 24.80 | 24.38 | 24.26 | -- | 29.26 | 30.00 | -0.74 | 24.00 |
| **2437.0** | 24.89 | 24.48 | 24.28 | -- | 29.33 | 30.00 | -0.67 | 24.00 |
| **2462.0** | 24.45 | 24.22 | 24.17 | -- | 29.06 | 30.00 | -0.94 | 24.00 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | ±1.33 dB |

DCCF - Duty Cycle Correction Factor

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| Equipment Configuration for Average Output Power |
|---|

| | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Output Power + DCCF (+0.22 dB) (dBm) Port(s) | | | | Calculated Total Power Σ Port(s) | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm | dBm | dB | |
| **2412.0** | 24.36 | 24.13 | 23.70 | -- | 28.85 | 30.00 | -1.15 | 24.00 |
| **2437.0** | 24.07 | 23.91 | 23.73 | -- | 28.68 | 30.00 | -1.32 | 24.00 |
| **2462.0** | 24.02 | 23.72 | 23.63 | -- | 28.57 | 30.00 | -1.43 | 24.00 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | ±1.33 dB |

DCCF - Duty Cycle Correction Factor

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| Equipment Configuration for Average Output Power |
|---|

| | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Output Power + DCCF (+0.22 dB) (dBm) Port(s) | | | | Calculated Total Power Σ Port(s) | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm | dBm | dB | |
| **2412.0** | 23.25 | 23.05 | 22.66 | -- | 27.77 | 30.00 | -2.23 | 23.00 |
| **2437.0** | 23.13 | 22.99 | 22.82 | -- | 27.76 | 30.00 | -2.24 | 23.00 |
| **2462.0** | 22.79 | 22.75 | 22.45 | -- | 27.44 | 30.00 | -2.56 | 23.00 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | ±1.33 dB |

DCCF - Duty Cycle Correction Factor

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| Equipment Configuration for Average Output Power |
|---|

| | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Output Power + DCCF (+0.04 dB) (dBm) Port(s) | | | | Calculated Total Power Σ Port(s) | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm | dBm | dB | |
| **2422.0** | 24.36 | 23.97 | 23.79 | -- | 28.82 | 30.00 | -1.18 | 24.00 |
| **2437.0** | 24.12 | 24.02 | 23.70 | -- | 28.73 | 30.00 | -1.27 | 24.00 |
| **2452.0** | 23.99 | 23.83 | 23.76 | -- | 28.64 | 30.00 | -1.36 | 24.00 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-01 MEASURING RF OUTPUT POWER |
| Measurement Uncertainty: | ±1.33 dB |

DCCF - Duty Cycle Correction Factor

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# 4.3. Emissions

## 4.3.1. Conducted Emissions

### 4.3.1.1. Conducted Spurious Emissions

| Conducted Test Conditions for Transmitter Conducted Spurious and Band-Edge Emissions | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.247 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | Max Unwanted Emission Levels | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.247 (d) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

**Test Procedure for Transmitter Conducted Spurious and Band-Edge Emissions Measurement**
Transmitter Conducted Spurious and Band-Edge emissions were measured at a limit of 30 dBc (average detector) or 20 dBc (peak detector) below the highest in-band spectral density measured with a spectrum analyzer connected to the antenna terminal. Measurements were made while EUT was operating in transmit mode of operation at the appropriate centre frequency closest to the band-edge. Emissions were maximized during the measurement and limits derived from the peak spectral power and drawn on each plot.

Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. Testing was performed under ambient conditions at nominal voltage only.

Test configuration and setup used for the measurement was per the Conducted Test Set-up specified in this document.

**Limits Transmitter Conducted Spurious and Band-Edge Emissions**
(d) 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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) (see §15.205(c)).

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| Equipment Configuration for Transmitter Conducted Spurious Emissions | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | Not Applicable |
| **Modulation:** | CCK | **Beam Forming Gain (Y):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Frequency Range | Transmitter Conducted Spurious Emissions (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Port a | | Port b | | Port c | | Port d | |
| MHz | MHz | SE | Limit | SE | Limit | SE | Limit | SE | Limit |
| **2412.0** | 30.0 - 26000.0 | -62.044 | -39.00 | -62.044 | -40.00 | -61.483 | -40.00 | -- | -- |
| **2437.0** | 30.0 - 26000.0 | -62.044 | -40.00 | -62.044 | -40.00 | -62.044 | -40.00 | -- | -- |
| **2462.0** | 30.0 - 26000.0 | -62.044 | -40.00 | -62.044 | -40.00 | -62.044 | -41.00 | -- | -- |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Transmitter Conducted Spurious Emissions | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | Not Applicable |
| **Modulation:** | OFDM | **Beam Forming Gain (Y):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Frequency Range | Transmitter Conducted Spurious Emissions (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Port a | | Port b | | Port c | | Port d | |
| MHz | MHz | SE | Limit | SE | Limit | SE | Limit | SE | Limit |
| **2412.0** | 30.0 - 26000.0 | -62.044 | -39.00 | -62.044 | -40.00 | -62.044 | -40.00 | -- | -- |
| **2437.0** | 30.0 - 26000.0 | -62.044 | -39.00 | -62.044 | -39.00 | -62.044 | -39.00 | -- | -- |
| **2462.0** | 30.0 - 26000.0 | -62.044 | -39.00 | -62.044 | -39.00 | -62.044 | -39.00 | -- | -- |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Transmitter Conducted Spurious Emissions | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | Not Applicable |
| **Modulation:** | OFDM | **Beam Forming Gain (Y):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Frequency Range | Transmitter Conducted Spurious Emissions (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Port a | | Port b | | Port c | | Port d | |
| MHz | MHz | SE | Limit | SE | Limit | SE | Limit | SE | Limit |
| **2412.0** | 30.0 - 26000.0 | -62.044 | -40.00 | -62.044 | -40.00 | -62.044 | -41.00 | -- | -- |
| **2437.0** | 30.0 - 26000.0 | -62.044 | -39.00 | -62.044 | -40.00 | -62.044 | -40.00 | -- | -- |
| **2462.0** | 30.0 - 26000.0 | -62.044 | -40.00 | -62.044 | -40.00 | -62.044 | -40.00 | -- | -- |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Transmitter Conducted Spurious Emissions | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 99 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | Not Applicable |
| **Modulation:** | OFDM | **Beam Forming Gain (Y):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Frequency Range | Transmitter Conducted Spurious Emissions (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Port a | | Port b | | Port c | | Port d | |
| MHz | MHz | SE | Limit | SE | Limit | SE | Limit | SE | Limit |
| **2422.0** | 30.0 - 26000.0 | -62.044 | -40.00 | -62.044 | -40.00 | -62.044 | -40.00 | -- | -- |
| **2437.0** | 30.0 - 26000.0 | -62.044 | -36.00 | -62.044 | -36.00 | -62.044 | -36.00 | -- | -- |
| **2452.0** | 30.0 - 26000.0 | -62.044 | -36.00 | -62.044 | -36.00 | -62.044 | -36.00 | -- | -- |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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### 4.3.1.2. Conducted Band-Edge Emissions

Conducted Low Band-Edge Emissions

| Equipment Configuration for Conducted Low Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | 3.00 |
| **Modulation:** | CCK | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | |
|---|---|
| **Channel Frequency:** | 2412.0 MHz |
| **Band-Edge Frequency:** | 2400.0 MHz |
| **Test Frequency Range:** | 2350.0 - 2422.0 MHz |

| Port(s) | Band-Edge Markers and Limit | | | Revised Limit | | Margin |
|---|---|---|---|---|---|---|
| | M1 Amplitude (dBm) | Plot Limit (dBm) | M2 Frequency (MHz) | Amplitude (dBm) | M2A Frequency (MHz) | (MHz) |
| a | -40.66 | -24.00 | 2404.10 | -- | -- | -4.100 |
| b | -45.20 | -25.00 | 2404.30 | -- | -- | -4.300 |
| c | -44.74 | -25.00 | 2404.10 | -- | -- | -4.100 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted Low Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 3.00 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | |
|---|---|
| **Channel Frequency:** | 2412.0 MHz |
| **Band-Edge Frequency:** | 2400.0 MHz |
| **Test Frequency Range:** | 2350.0 - 2422.0 MHz |

| Port(s) | Band-Edge Markers and Limit | | | Revised Limit | | Margin |
|---|---|---|---|---|---|---|
| | M1 Amplitude (dBm) | Plot Limit (dBm) | M2 Frequency (MHz) | Amplitude (dBm) | M2A Frequency (MHz) | (MHz) |
| a | -28.90 | -28.00 | 2400.90 | -- | -- | -0.900 |
| b | -32.16 | -28.00 | 2401.40 | -- | -- | -1.400 |
| c | -31.39 | -29.00 | 2401.20 | -- | -- | -1.200 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted Low Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Channel Frequency:** | 2412.0 MHz | | | | | |
| **Band-Edge Frequency:** | 2400.0 MHz | | | | | |
| **Test Frequency Range:** | 2350.0 - 2422.0 MHz | | | | | |
| **Port(s)** | **Band-Edge Markers and Limit** | | | **Revised Limit** | | **Margin** |
| | **M1 Amplitude (dBm)** | **Plot Limit (dBm)** | **M2 Frequency (MHz)** | **Amplitude (dBm)** | **M2A Frequency (MHz)** | **(MHz)** |
| **a** | -31.44 | -30.00 | 2400.90 | -- | -- | -0.900 |
| **b** | -34.66 | -30.00 | 2401.20 | -- | -- | -1.200 |
| **c** | -33.57 | -30.00 | 2401.20 | -- | -- | -1.200 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted Low Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Channel Frequency:** | 2422.0 MHz | | | | | |
| **Band-Edge Frequency:** | 2400.0 MHz | | | | | |
| **Test Frequency Range:** | 2292.0 - 2442.0 MHz | | | | | |
| **Port(s)** | **Band-Edge Markers and Limit** | | | **Revised Limit** | | **Margin** |
| | **M1 Amplitude (dBm)** | **Plot Limit (dBm)** | **M2 Frequency (MHz)** | **Amplitude (dBm)** | **M2A Frequency (MHz)** | **(MHz)** |
| **a** | -31.94 | -31.00 | 2400.80 | -- | -- | -0.800 |
| **b** | -35.06 | -31.00 | 2402.00 | -- | -- | -2.000 |
| **c** | -33.60 | -31.00 | 2402.00 | -- | -- | -2.000 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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## Conducted High Band-Edge Emissions

**Equipment Configuration for Conducted High Band-Edge Emissions - Average**

| | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | CCK | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | |
|---|---|
| **Channel Frequency:** | 2462.0 MHz |
| **Band-Edge Frequency:** | 2483.5 MHz |
| **Test Frequency Range:** | 2452.0 - 2524.0 MHz |

| Port(s) | Band-Edge Markers and Limit | | | Revised Limit | | Margin |
|---|---|---|---|---|---|---|
| | M3 Amplitude (dBm) | Plot Limit (dBm) | M2 Frequency (MHz) | Amplitude (dBm) | M2A Frequency (MHz) | (MHz) |
| a | -53.29 | -25.00 | 2469.70 | -- | -- | -13.800 |
| b | -55.57 | -25.00 | 2469.60 | -- | -- | -13.900 |
| c | -53.88 | -25.00 | 2469.60 | -- | -- | -13.900 |

| **Traceability to Industry Recognized Test Methodologies** | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted High Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | |
|---|---|
| **Channel Frequency:** | 2462.0 MHz |
| **Band-Edge Frequency:** | 2483.5 MHz |
| **Test Frequency Range:** | 2452.0 - 2524.0 MHz |

| Port(s) | Band-Edge Markers and Limit | | | Revised Limit | | Margin |
|---|---|---|---|---|---|---|
| | M3 Amplitude (dBm) | Plot Limit (dBm) | M2 Frequency (MHz) | Amplitude (dBm) | M2A Frequency (MHz) | (MHz) |
| **a** | -41.94 | -28.00 | 2472.60 | -- | -- | -10.900 |
| **b** | -44.44 | -29.00 | 2472.60 | -- | -- | -10.900 |
| **c** | -43.64 | -29.00 | 2472.60 | -- | -- | -10.900 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted High Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Channel Frequency:** | 2462.0 MHz | | | | | |
| **Band-Edge Frequency:** | 2483.5 MHz | | | | | |
| **Test Frequency Range:** | 2452.0 - 2524.0 MHz | | | | | |
| **Port(s)** | **Band-Edge Markers and Limit** | | | **Revised Limit** | | **Margin** |
| | **M3 Amplitude (dBm)** | **Plot Limit (dBm)** | **M2 Frequency (MHz)** | **Amplitude (dBm)** | **M2A Frequency (MHz)** | **(MHz)** |
| **a** | -42.90 | -30.00 | 2472.60 | -- | -- | -10.900 |
| **b** | -44.94 | -30.00 | 2472.60 | -- | -- | -10.900 |
| **c** | -44.34 | -30.00 | 2472.50 | -- | -- | -11.000 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Conducted High Band-Edge Emissions - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.60 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Channel Frequency:** | 2452.0 MHz | | | | | |
| **Band-Edge Frequency:** | 2483.5 MHz | | | | | |
| **Test Frequency Range:** | 2432.0 - 2582.0 MHz | | | | | |
| **Port(s)** | **Band-Edge Markers and Limit** | | | **Revised Limit** | | **Margin** |
| | **M3 Amplitude (dBm)** | **Plot Limit (dBm)** | **M2 Frequency (MHz)** | **Amplitude (dBm)** | **M2A Frequency (MHz)** | **(MHz)** |
| **a** | -34.20 | -31.00 | 2473.80 | -- | -- | -9.700 |
| **b** | -35.92 | -32.00 | 2472.60 | -- | -- | -10.900 |
| **c** | -34.96 | -31.00 | 2472.30 | -- | -- | -11.200 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-05 MEASUREMENT OF SPURIOUS EMISSIONS |
| Measurement Uncertainty: | <=40 GHz ±2.37 dB, > 40 GHz ±4.6 dB |

Note: click the links in the above matrix to view the graphical image (plot).

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## 4.4. Power Spectral Density

| Conducted Test Conditions for Power Spectral Density | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.247 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | Power Spectral Density | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.247 (e) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

**Test Procedure for Power Spectral Density**
The transmitter output was connected to a spectrum analyzer and the measured made in a 3 kHz resolution bandwidth using the analyzer auto-coupled sweep-time. A peak value was found over the full emission bandwidth and the spectrum downloaded for post processing purposes.

Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (å) and a link to this additional graphic is provided.

Testing was performed under ambient conditions at nominal voltage only.

Test configuration and setup used for the measurement was per the Conducted Test Set-up specified in this document.

Measure and sum the spectra across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The individual spectra are then summed mathematically in linear power units. Unlike in-band power measurements, in which the sum involves a single measured value (output power) from each output, measurements for compliance with PSD limits involve summing entire spectra across corresponding frequency bins on the various outputs. Consistency is maintained for any device with multiple transmitter outputs to be certain the individual outputs are all aligned with the same span and same number of points. In this instance, the linear power spectrum value within the first spectral bin of output 0 is summed with that in the first spectral bin of output 1, and the first spectral bin of output 2, and so on up to the Nth output to obtain the true value for the first frequency bin of the summed spectrum. The summed spectrum value for each frequency bin is computed in this fashion. These summed spectral values were post processed and the resulting numerical and graphical data presented.

NOTE:
It may be observed that the spectrum in some antenna port plots break the limit line however this in itself does NOT constitute a failure. In all cases a spectrum summation plot is provided in order to prove compliance. A failure occurs only after the summation of all spectrum plots have been summed and are found to be greater than the limit line.

**Supporting Information**
Calculated Power = A + 10 log (1/x) dBm
A = Total Power Spectral Density [10 Log10 ($10^{a/10}$ + $10^{b/10}$ + $10^{c/10}$ + $10^{d/10}$)]
x = Duty Cycle

**Limits Power Spectral Density**
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

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| Equipment Configuration for Power Spectral Density - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11b | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 1.00 MBit/s | **Antenna Gain (dBi):** | 3.17 |
| **Modulation:** | CCK | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/3KHz) | | | | Amplitude Summation + DCCF (+0.04 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm/3KHz | dBm/3KHz | dB |
| 2412.0 | -8.307 | -9.488 | -9.209 | -- | -4.512 | 8.0 | -12.5 |
| 2437.0 | -8.592 | -8.960 | -8.739 | -- | -4.256 | 8.0 | -12.2 |
| 2462.0 | -8.902 | -8.989 | -9.040 | -- | -4.471 | 8.0 | -12.4 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Power Spectral Density - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11g | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 3.17 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/3KHz) | | | | Amplitude Summation + DCCF (+0.22 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm/3KHz | dBm/3KHz | dB |
| 2412.0 | -11.695 | -12.100 | -11.666 | -- | -6.947 | 8.0 | -14.9 |
| 2437.0 | -11.666 | -11.686 | -12.132 | -- | -6.828 | 8.0 | -14.8 |
| 2462.0 | -11.224 | -11.825 | -11.578 | -- | -6.541 | 8.0 | -14.5 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Power Spectral Density - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 95.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 3.17 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/3KHz) | | | | Amplitude Summation + DCCF (+0.22 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm/3KHz | dBm/3KHz | dB |
| 2412.0 | -12.949 | -13.323 | -13.688 | -- | -8.804 | 8.0 | -16.8 |
| 2437.0 | -13.053 | -13.467 | -13.726 | -- | -8.776 | 8.0 | -16.7 |
| 2462.0 | -12.892 | -13.006 | -13.589 | -- | -8.355 | 8.0 | -16.3 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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| Equipment Configuration for Power Spectral Density - Average | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 99.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 3.17 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | CC |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/3KHz) | | | | Amplitude Summation + DCCF (+0.04 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm/3KHz | dBm/3KHz | dB |
| 2422.0 | -15.002 | -15.119 | -15.571 | -- | -10.586 | 8.0 | -18.6 |
| 2437.0 | -15.104 | -15.901 | -15.742 | -- | -11.207 | 8.0 | -19.2 |
| 2452.0 | -15.327 | -15.664 | -15.342 | -- | -10.682 | 8.0 | -18.7 |

| Traceability to Industry Recognized Test Methodologies | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | ±2.81 dB |

DCCF - Duty Cycle Correction Factor

Note: click the links in the above matrix to view the graphical image (plot).

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# A. APPENDIX - GRAPHICAL IMAGES

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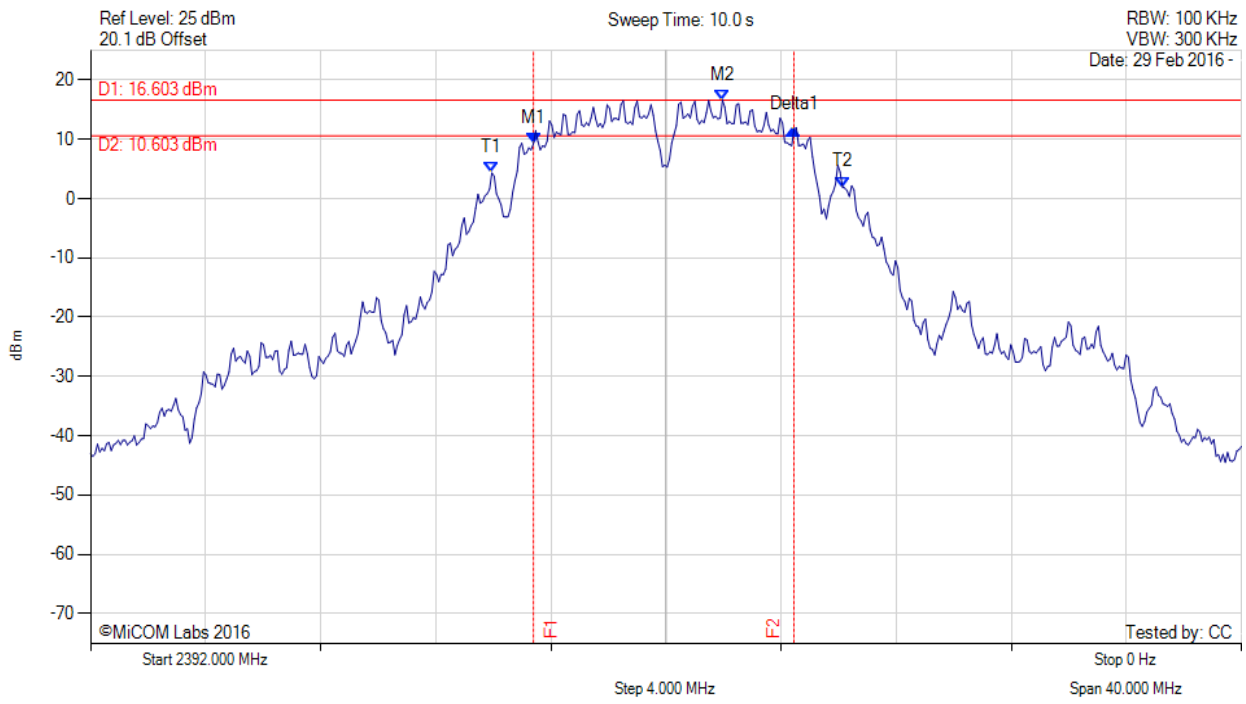
## A.1. 6 dB & 99% Bandwidth

6 dB & 99% BANDWIDTH Variant: 802.11b, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2407.391 MHz : 9.267 dBm<br>M2 : 2413.964 MHz : 16.603 dBm<br>Delta1 : 9.058 MHz : 2.390 dB<br>T1 : 2405.948 MHz : 4.337 dBm<br>T2 : 2418.132 MHz : 1.956 dBm<br>OBW : 12.184 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

back to matrix

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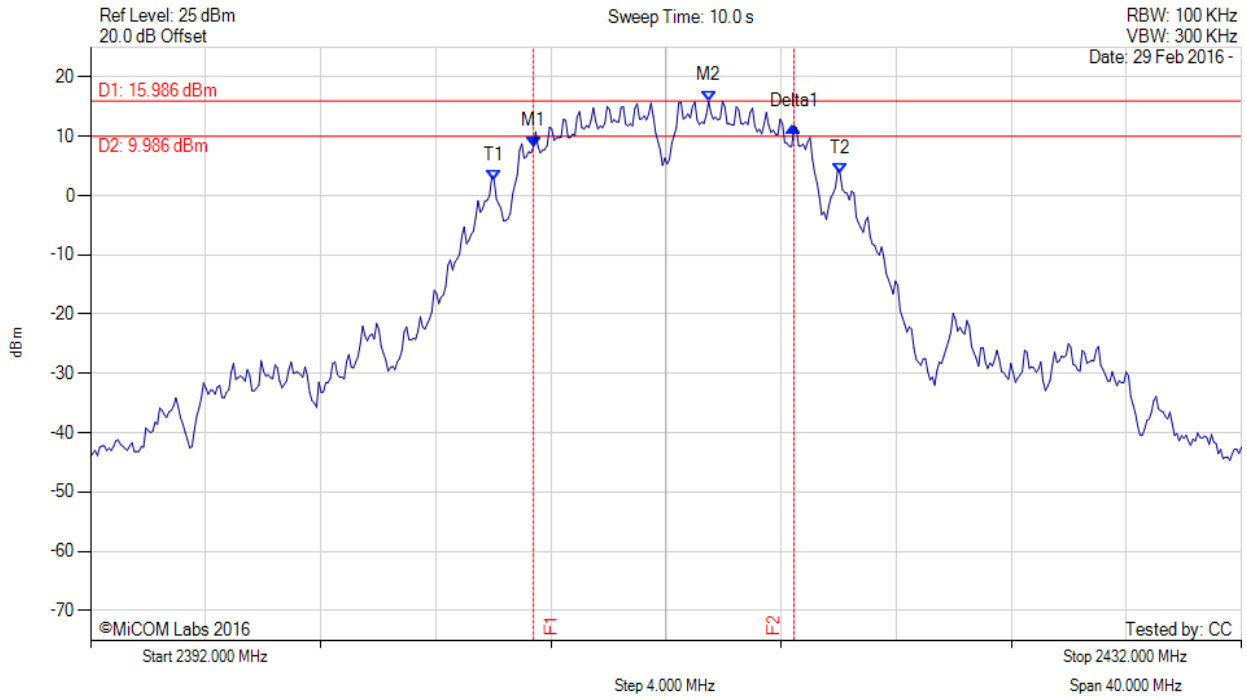
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2407.391 MHz : 8.258 dBm<br>M2 : 2413.483 MHz : 15.986 dBm<br>Delta1 : 9.058 MHz : 3.407 dB<br>T1 : 2406.028 MHz : 2.507 dBm<br>T2 : 2418.052 MHz : 3.686 dBm<br>OBW : 12.024 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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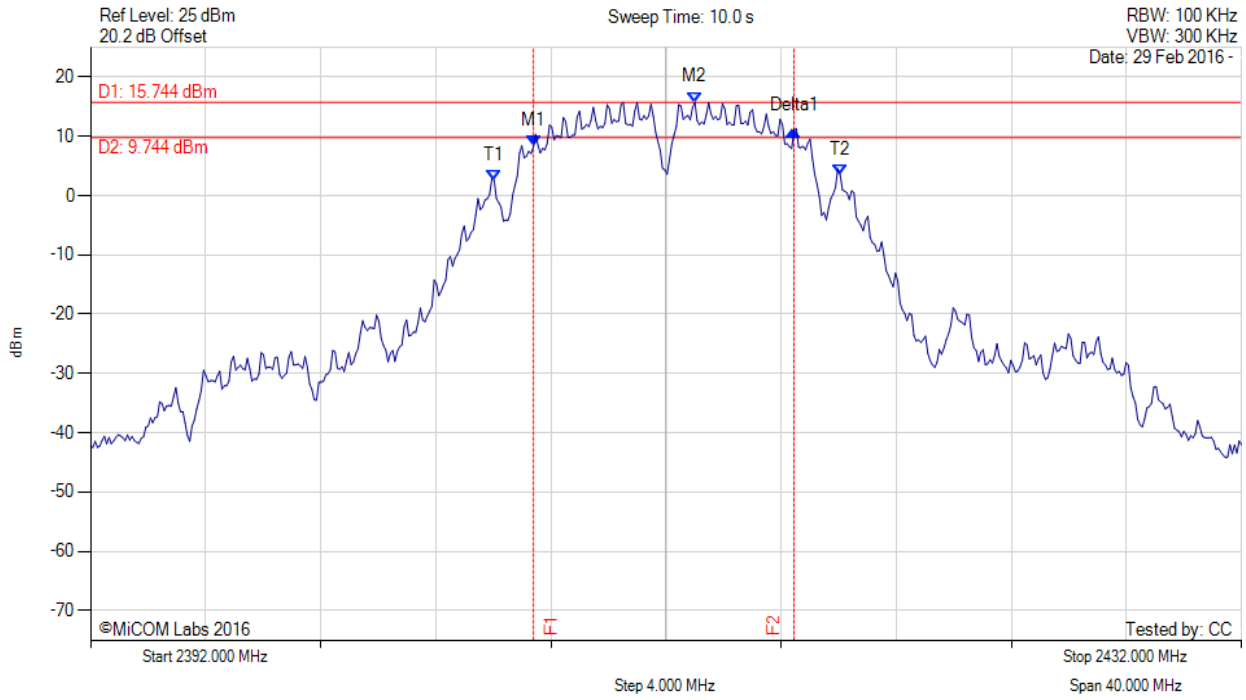
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2407.391 MHz : 8.285 dBm<br>M2 : 2413.002 MHz : 15.744 dBm<br>Delta1 : 9.058 MHz : 2.741 dB<br>T1 : 2406.028 MHz : 2.570 dBm<br>T2 : 2418.052 MHz : 3.546 dBm<br>OBW : 12.024 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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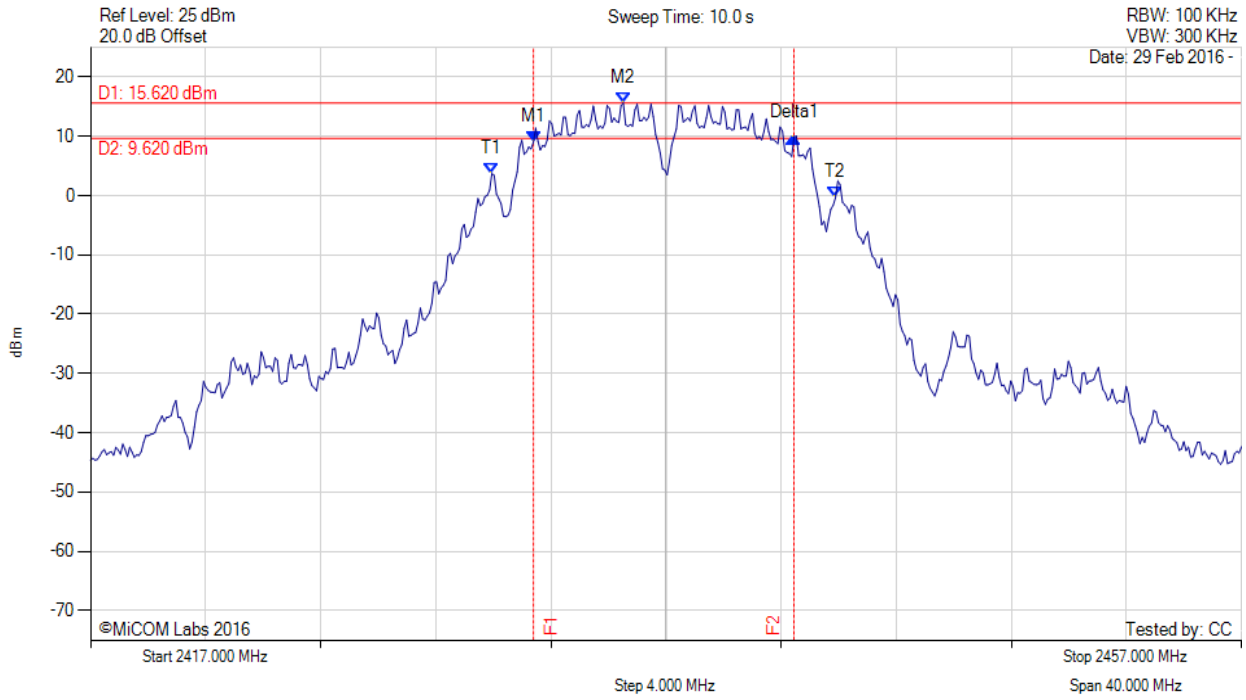
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2432.391 MHz : 9.011 dBm<br>M2 : 2435.517 MHz : 15.620 dBm<br>Delta1 : 9.058 MHz : 0.799 dB<br>T1 : 2430.948 MHz : 3.719 dBm<br>T2 : 2442.892 MHz : -0.338 dBm<br>OBW : 11.944 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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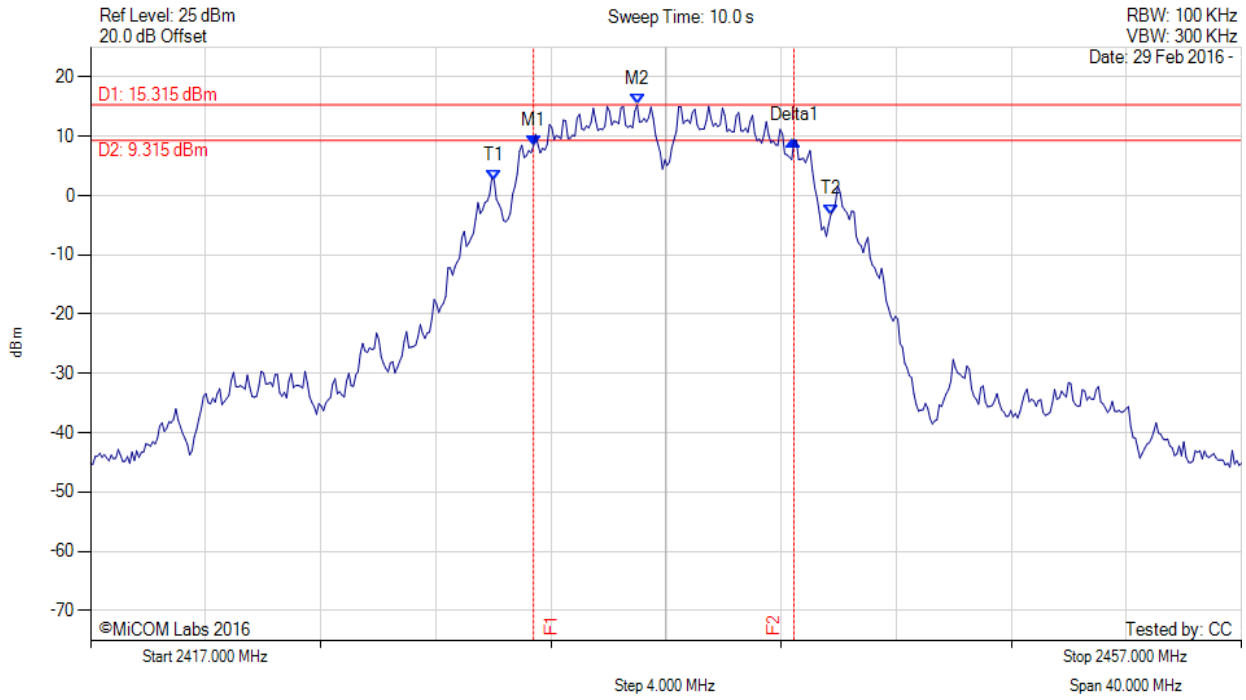
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2432.391 MHz : 8.388 dBm<br>M2 : 2435.998 MHz : 15.315 dBm<br>Delta1 : 9.058 MHz : 0.852 dB<br>T1 : 2431.028 MHz : 2.525 dBm<br>T2 : 2442.731 MHz : -3.184 dBm<br>OBW : 11.703 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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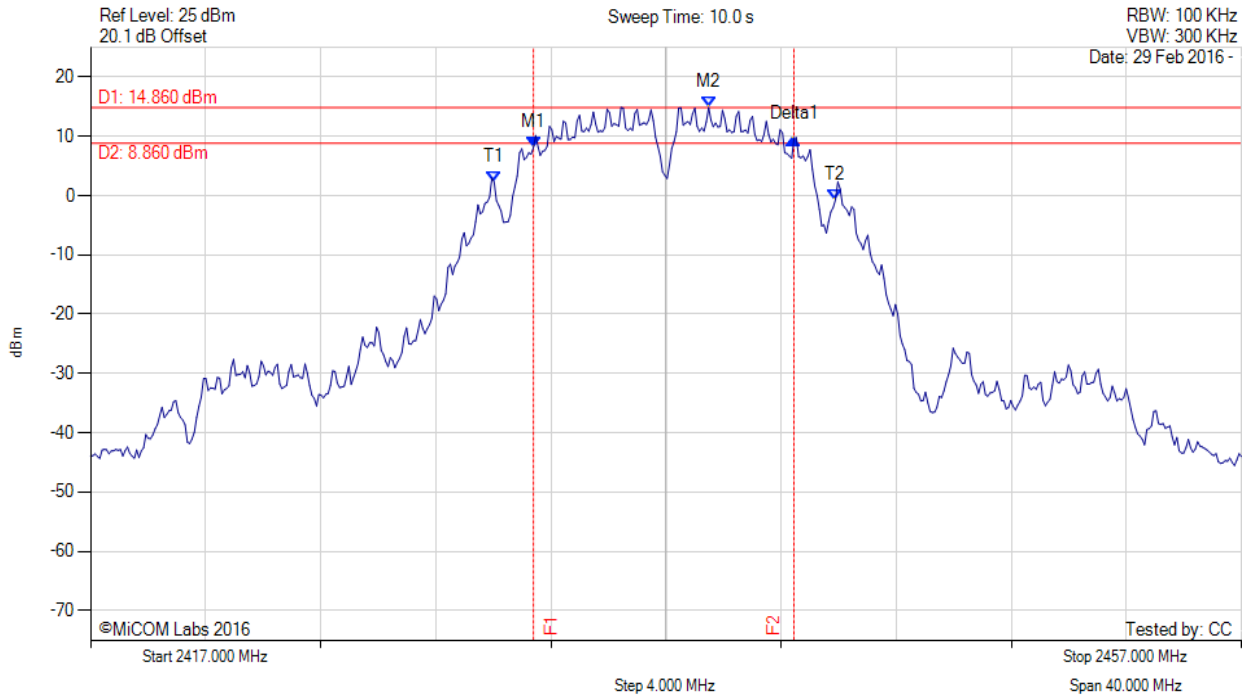
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2432.391 MHz : 8.096 dBm<br>M2 : 2438.483 MHz : 14.860 dBm<br>Delta1 : 9.058 MHz : 1.509 dB<br>T1 : 2431.028 MHz : 2.255 dBm<br>T2 : 2442.892 MHz : -0.690 dBm<br>OBW : 11.864 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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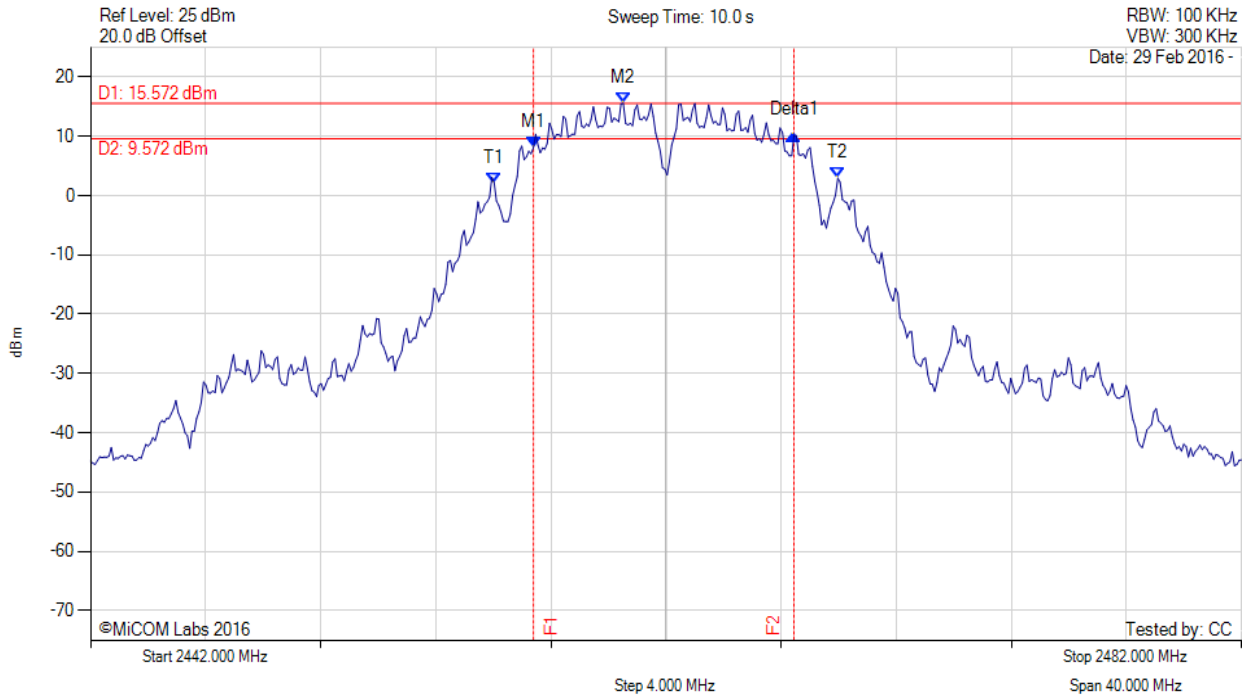
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2457.391 MHz : 8.091 dBm<br>M2 : 2460.517 MHz : 15.572 dBm<br>Delta1 : 9.058 MHz : 2.074 dB<br>T1 : 2456.028 MHz : 2.155 dBm<br>T2 : 2467.972 MHz : 2.952 dBm<br>OBW : 11.944 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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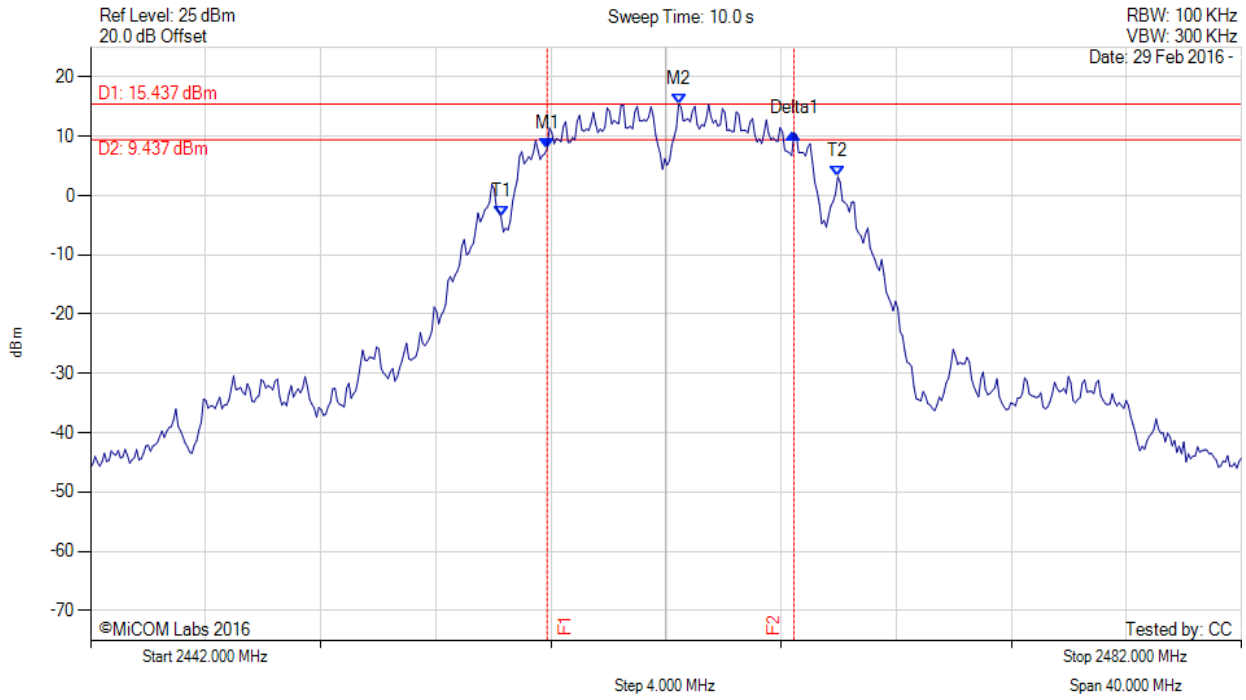
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2457.872 MHz : 7.980 dBm<br>M2 : 2462.441 MHz : 15.437 dBm<br>Delta1 : 8.577 MHz : 2.603 dB<br>T1 : 2456.269 MHz : -3.580 dBm<br>T2 : 2467.972 MHz : 3.206 dBm<br>OBW : 11.703 MHz | Measured 6 dB Bandwidth: 8.577 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.08 MHz |

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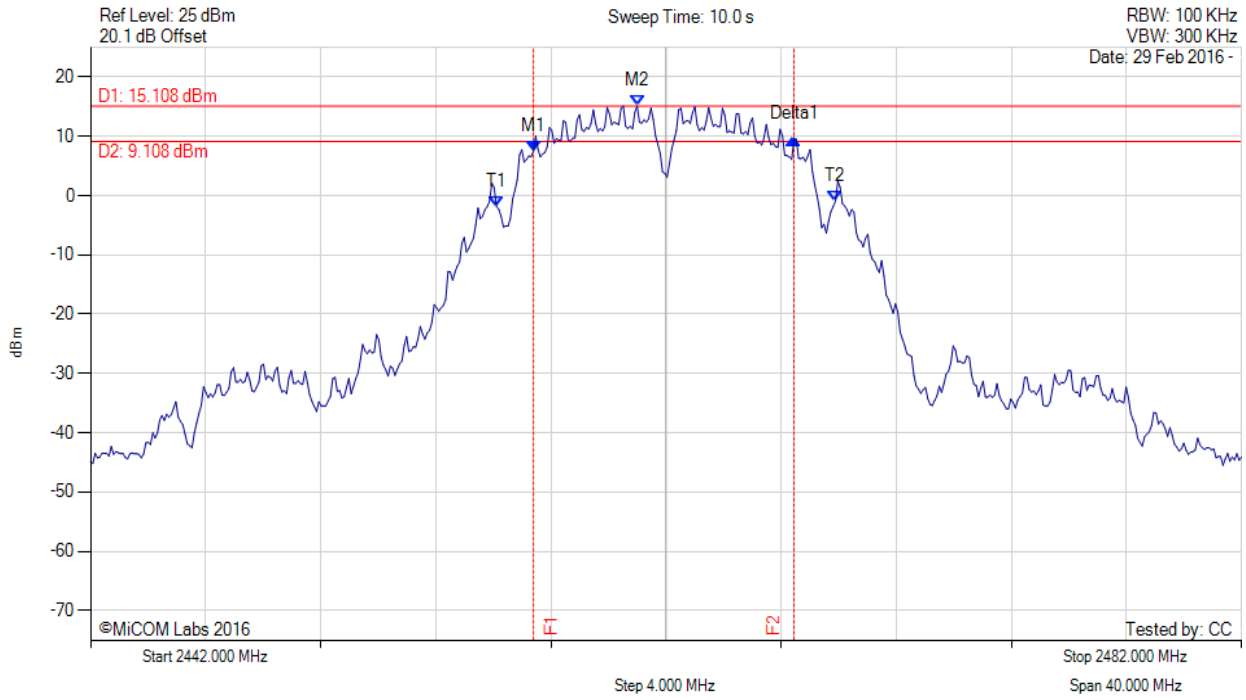
6 dB & 99% BANDWIDTH:Variant: 802.11b, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2457.391 MHz : 7.473 dBm<br>M2 : 2460.998 MHz : 15.108 dBm<br>Delta1 : 9.058 MHz : 1.987 dB<br>T1 : 2456.108 MHz : -1.856 dBm<br>T2 : 2467.892 MHz : -0.920 dBm<br>OBW : 11.784 MHz | Measured 6 dB Bandwidth: 9.058 MHz<br>Limit: ≥500.0 kHz<br>Margin: -8.56 MHz |

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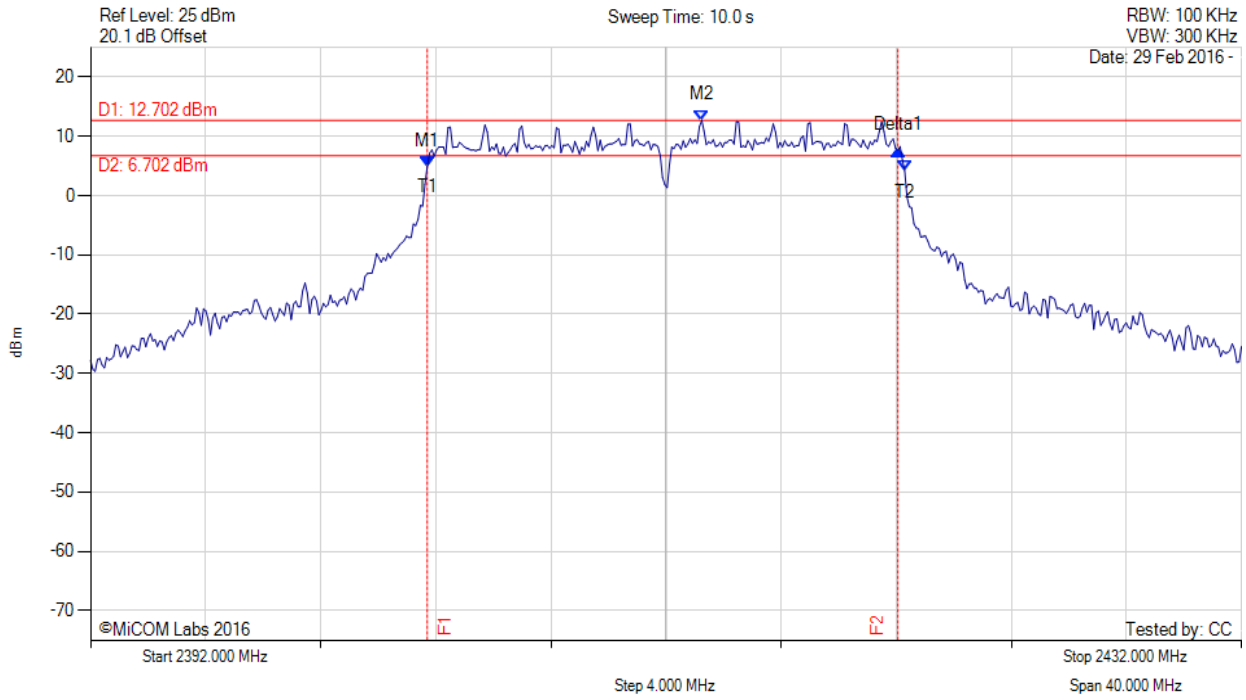
6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.703 MHz : 4.962 dBm<br>M2 : 2413.242 MHz : 12.702 dBm<br>Delta1 : 16.353 MHz : 2.711 dB<br>T1 : 2403.703 MHz : 4.962 dBm<br>T2 : 2420.297 MHz : 4.164 dBm<br>OBW : 16.593 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.85 MHz |

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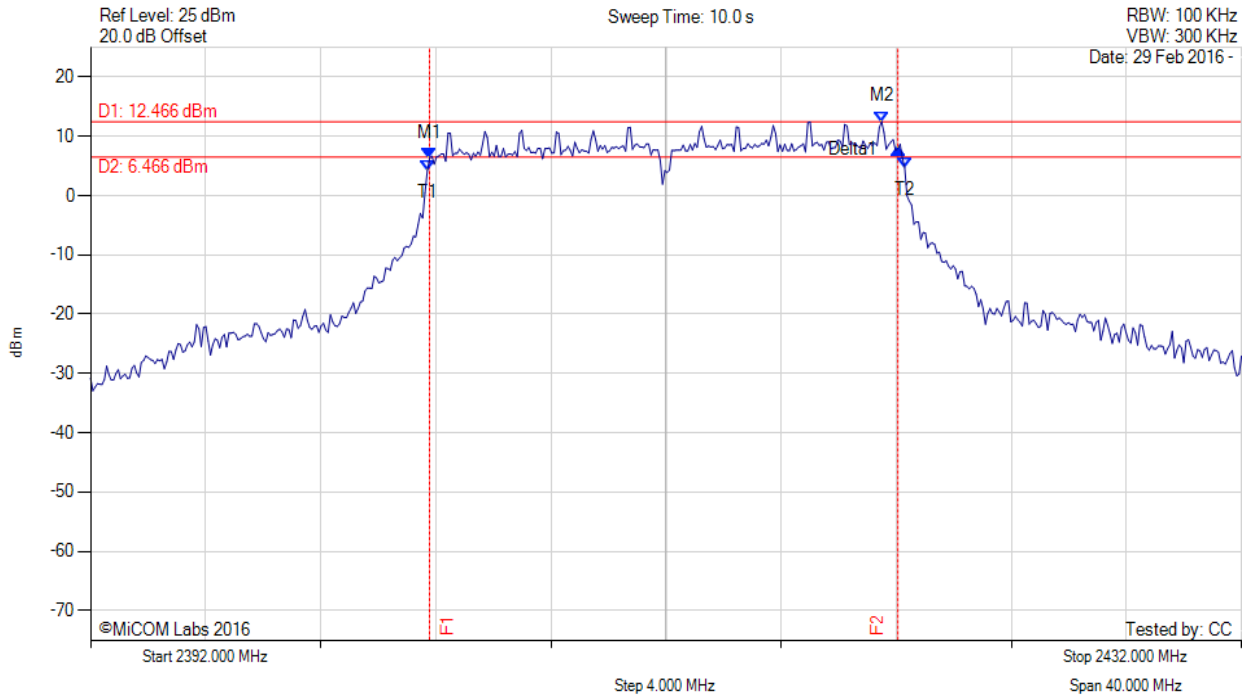
6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.784 MHz : 6.275 dBm<br>M2 : 2419.495 MHz : 12.466 dBm<br>Delta1 : 16.273 MHz : 1.641 dB<br>T1 : 2403.703 MHz : 4.152 dBm<br>T2 : 2420.297 MHz : 4.673 dBm<br>OBW : 16.593 MHz | Measured 6 dB Bandwidth: 16.273 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.77 MHz |

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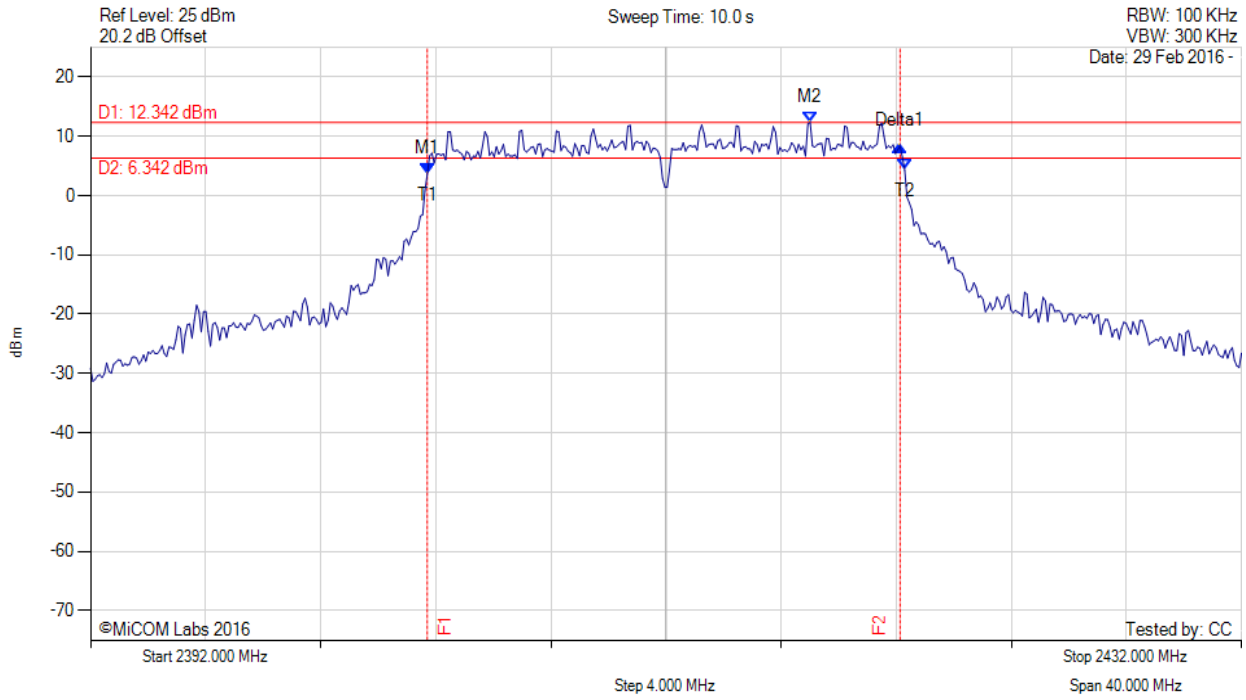
6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.703 MHz : 3.625 dBm<br>M2 : 2417.010 MHz : 12.342 dBm<br>Delta1 : 16.433 MHz : 4.733 dB<br>T1 : 2403.703 MHz : 3.625 dBm<br>T2 : 2420.297 MHz : 4.309 dBm<br>OBW : 16.593 MHz | Measured 6 dB Bandwidth: 16.433 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.93 MHz |

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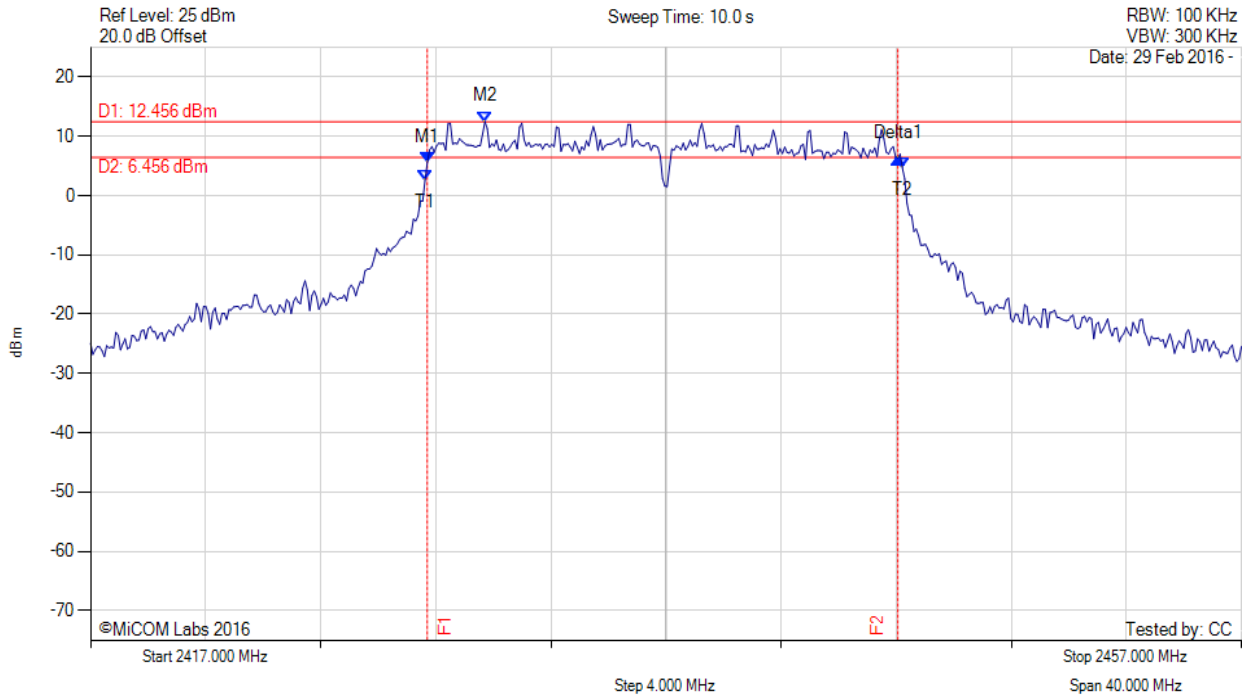
6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.703 MHz : 5.555 dBm<br>M2 : 2430.707 MHz : 12.456 dBm<br>Delta1 : 16.353 MHz : 0.752 dB<br>T1 : 2428.623 MHz : 2.499 dBm<br>T2 : 2445.216 MHz : 4.618 dBm<br>OBW : 16.593 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.85 MHz |

back to matrix

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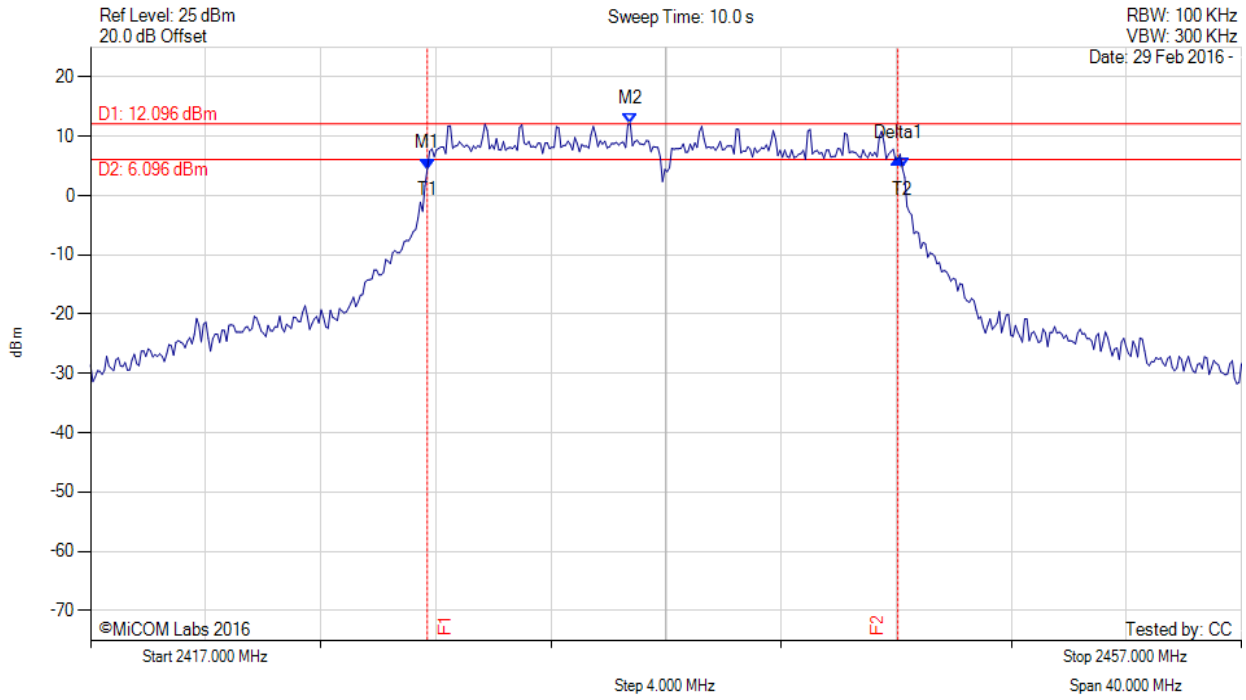
6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

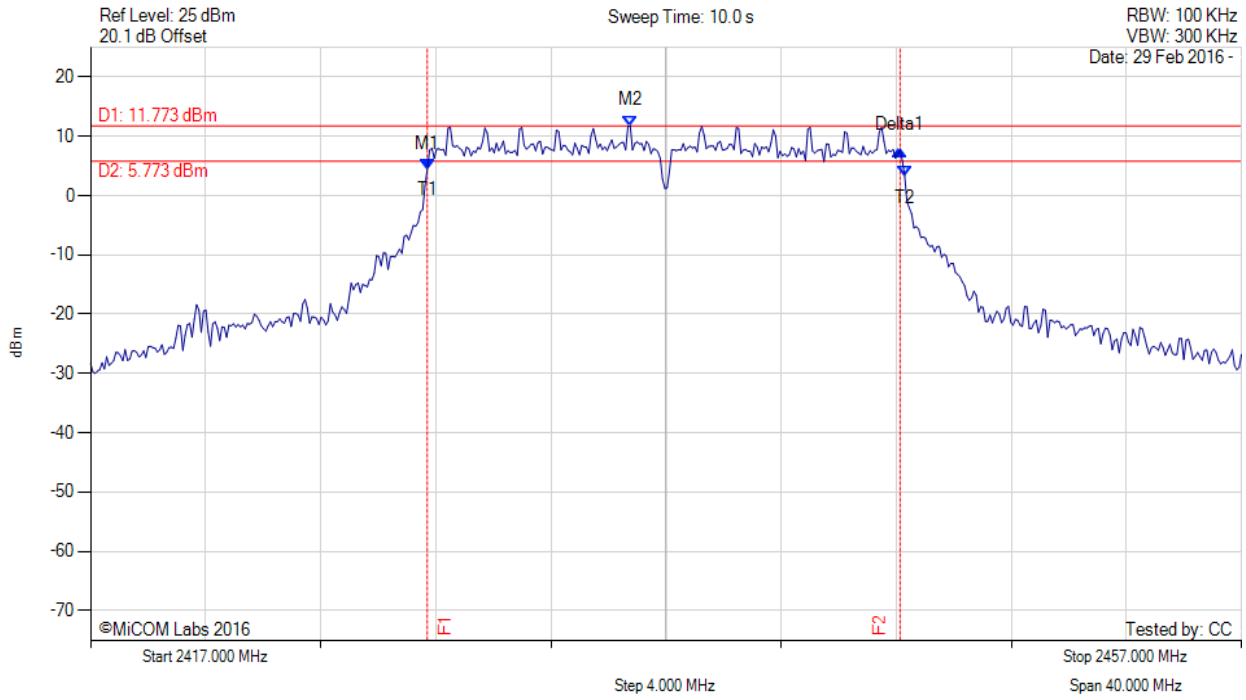



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.703 MHz : 4.522 dBm<br>M2 : 2435.758 MHz : 12.096 dBm<br>Delta1 : 16.353 MHz : 1.749 dB<br>T1 : 2428.703 MHz : 4.522 dBm<br>T2 : 2445.216 MHz : 4.593 dBm<br>OBW : 16.513 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.85 MHz |

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

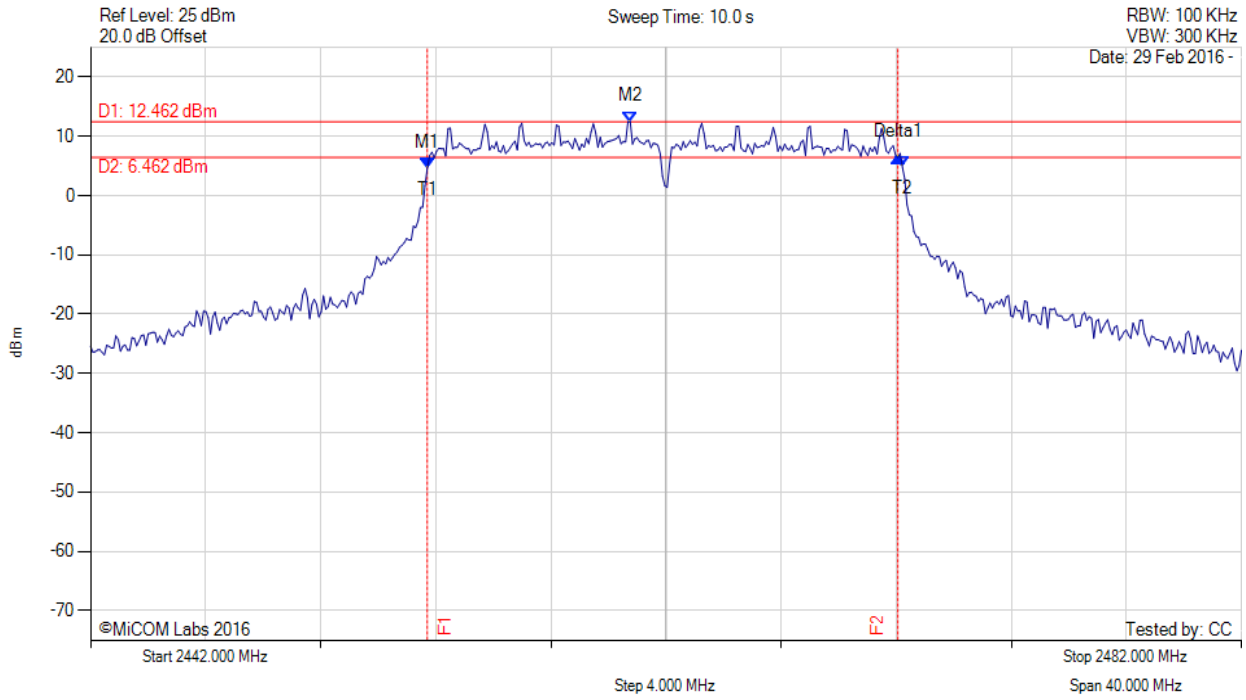



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.703 MHz : 4.500 dBm<br>M2 : 2435.758 MHz : 11.773 dBm<br>Delta1 : 16.433 MHz : 3.136 dB<br>T1 : 2428.703 MHz : 4.500 dBm<br>T2 : 2445.297 MHz : 3.241 dBm<br>OBW : 16.593 MHz | Measured 6 dB Bandwidth: 16.433 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.93 MHz |

back to matrix

This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2453.703 MHz : 4.608 dBm<br>M2 : 2460.758 MHz : 12.462 dBm<br>Delta1 : 16.353 MHz : 1.802 dB<br>T1 : 2453.703 MHz : 4.608 dBm<br>T2 : 2470.216 MHz : 4.791 dBm<br>OBW : 16.513 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.85 MHz |

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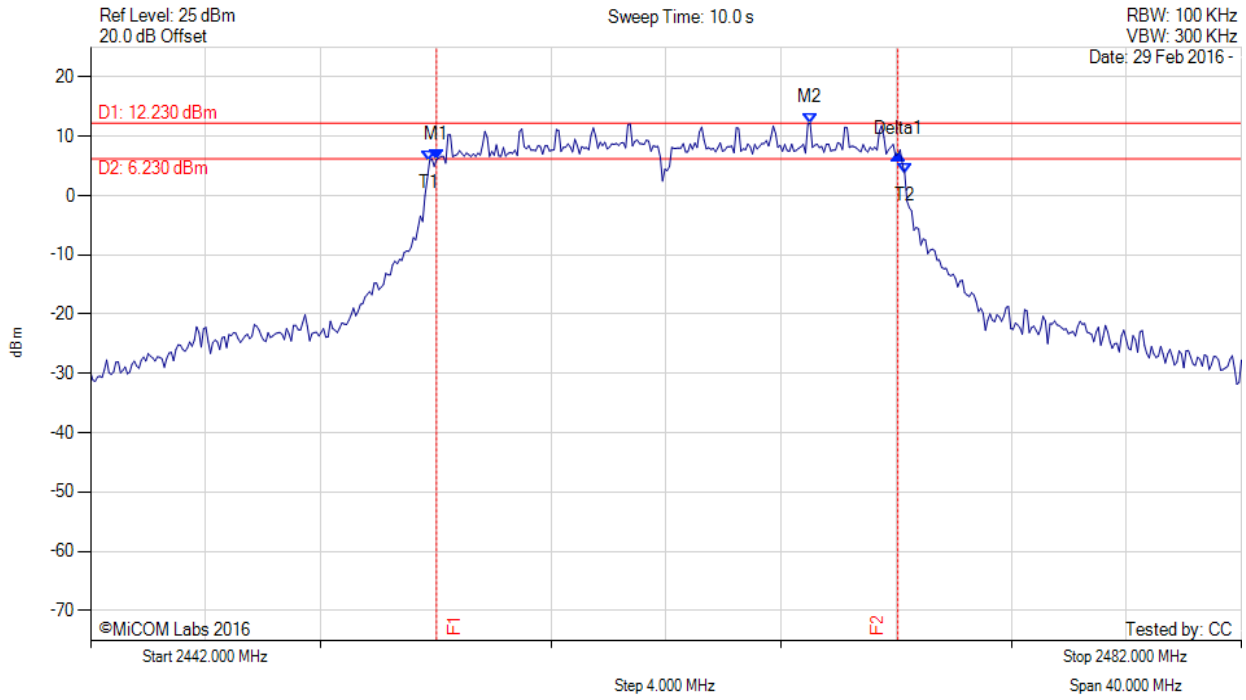
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2454.024 MHz : 6.123 dBm<br>M2 : 2467.010 MHz : 12.230 dBm<br>Delta1 : 16.032 MHz : 0.834 dB<br>T1 : 2453.784 MHz : 5.834 dBm<br>T2 : 2470.297 MHz : 3.723 dBm<br>OBW : 16.513 MHz | Measured 6 dB Bandwidth: 16.032 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.53 MHz |

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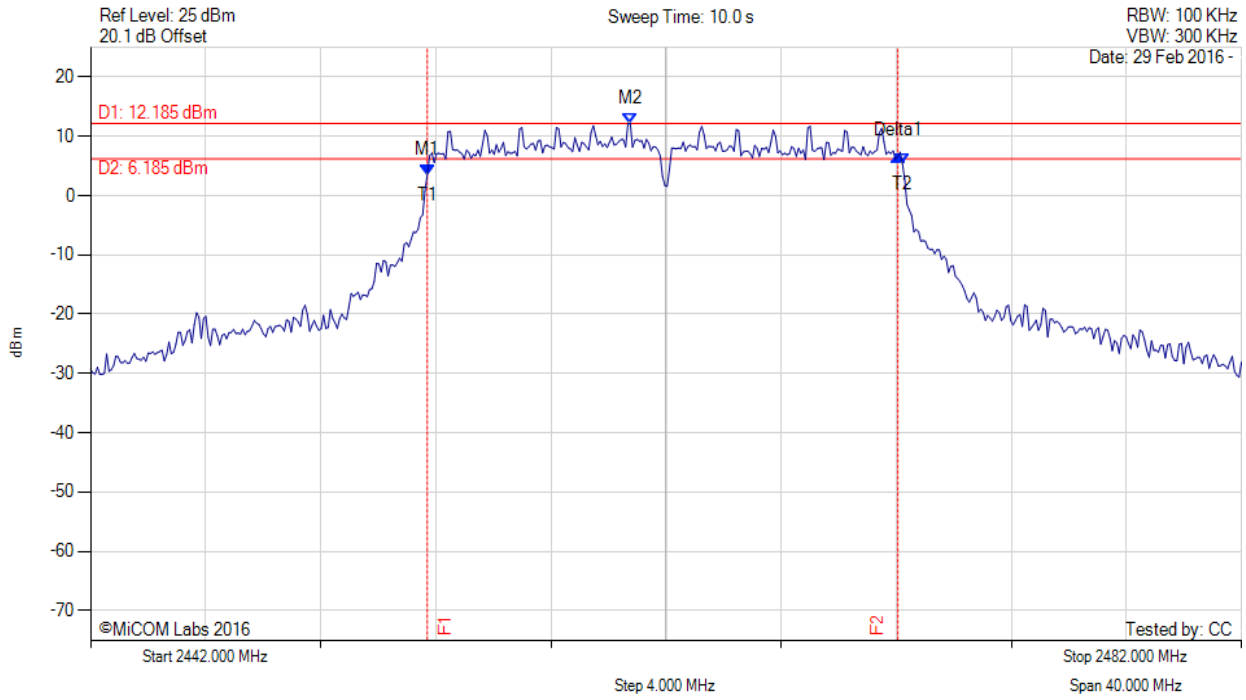
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

6 dB & 99% BANDWIDTH:Variant: 802.11g, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2453.703 MHz : 3.556 dBm<br>M2 : 2460.758 MHz : 12.185 dBm<br>Delta1 : 16.353 MHz : 3.138 dB<br>T1 : 2453.703 MHz : 3.556 dBm<br>T2 : 2470.216 MHz : 5.389 dBm<br>OBW : 16.513 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Limit: ≥500.0 kHz<br>Margin: -15.85 MHz |

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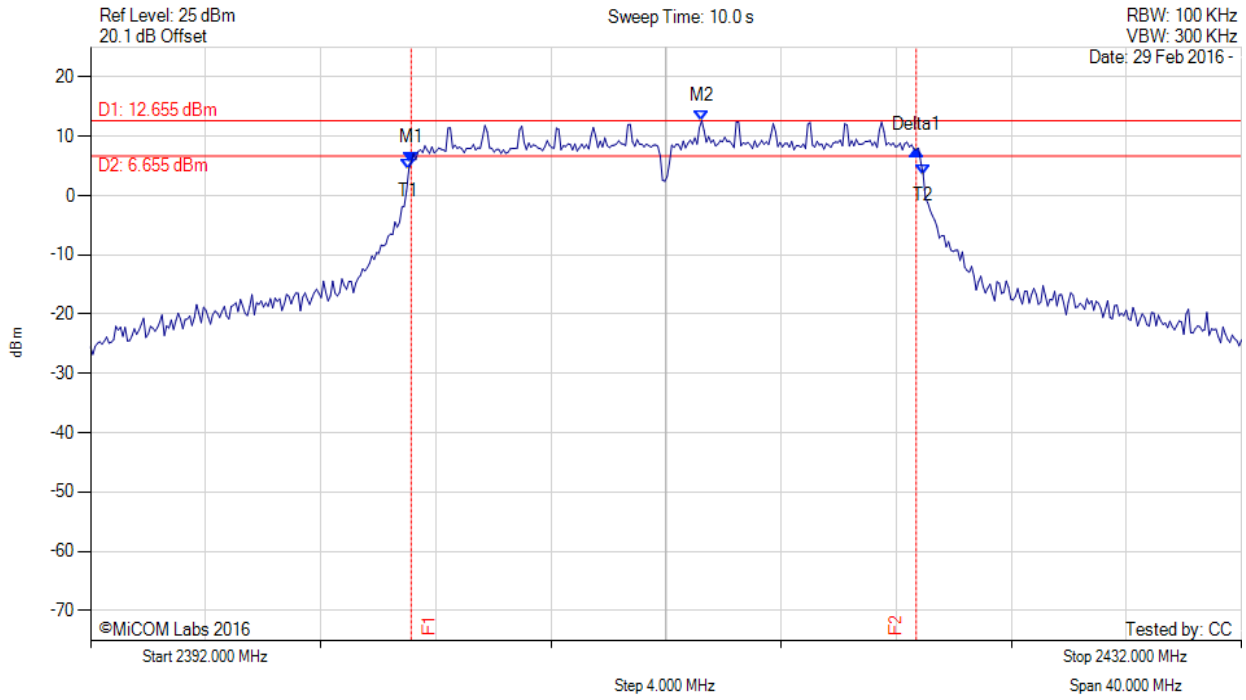
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.142 MHz : 5.667 dBm<br>M2 : 2413.242 MHz : 12.655 dBm<br>Delta1 : 17.555 MHz : 2.089 dB<br>T1 : 2403.062 MHz : 4.410 dBm<br>T2 : 2420.938 MHz : 3.599 dBm<br>OBW : 17.876 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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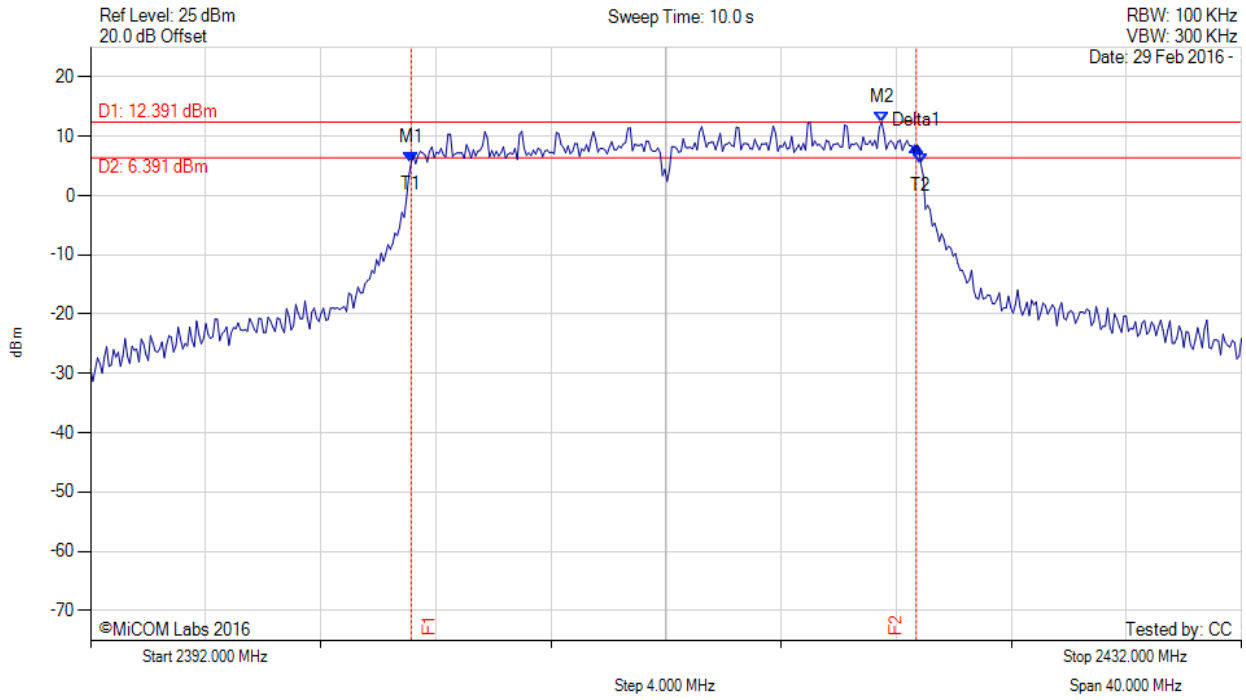
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.142 MHz : 5.545 dBm<br>M2 : 2419.495 MHz : 12.391 dBm<br>Delta1 : 17.555 MHz : 2.843 dB<br>T1 : 2403.142 MHz : 5.545 dBm<br>T2 : 2420.858 MHz : 5.346 dBm<br>OBW : 17.715 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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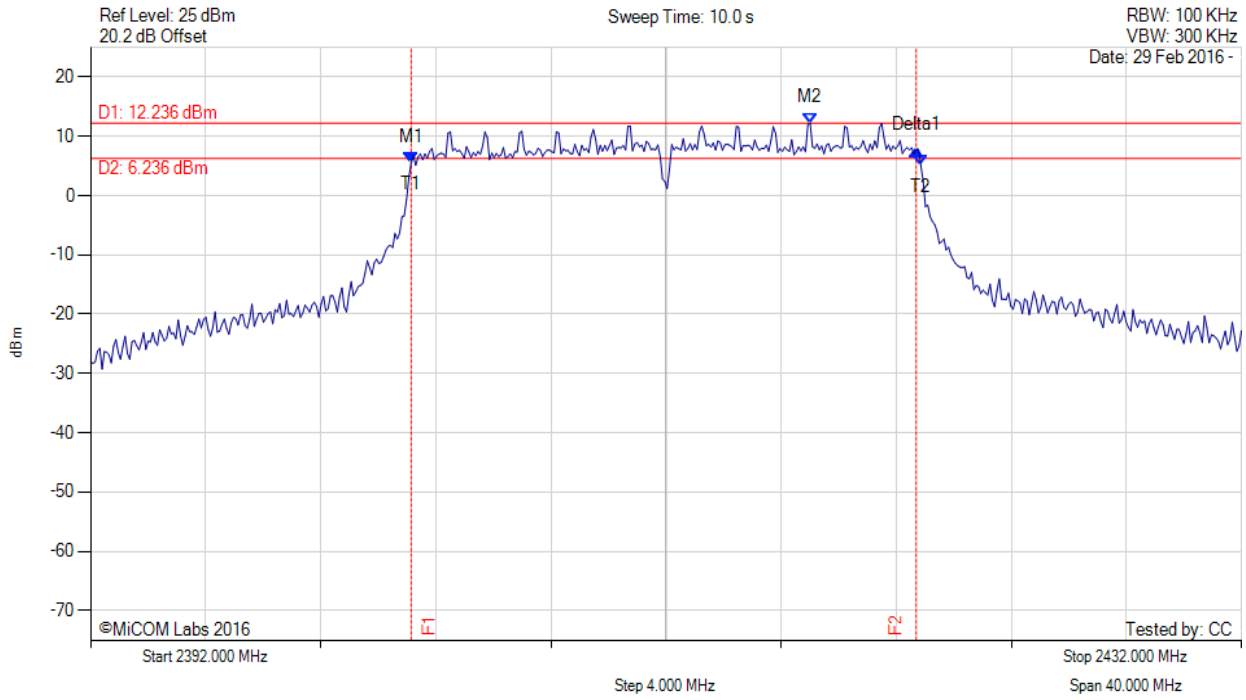
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-20, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2403.142 MHz : 5.515 dBm<br>M2 : 2417.010 MHz : 12.236 dBm<br>Delta1 : 17.555 MHz : 2.229 dB<br>T1 : 2403.142 MHz : 5.515 dBm<br>T2 : 2420.858 MHz : 5.055 dBm<br>OBW : 17.715 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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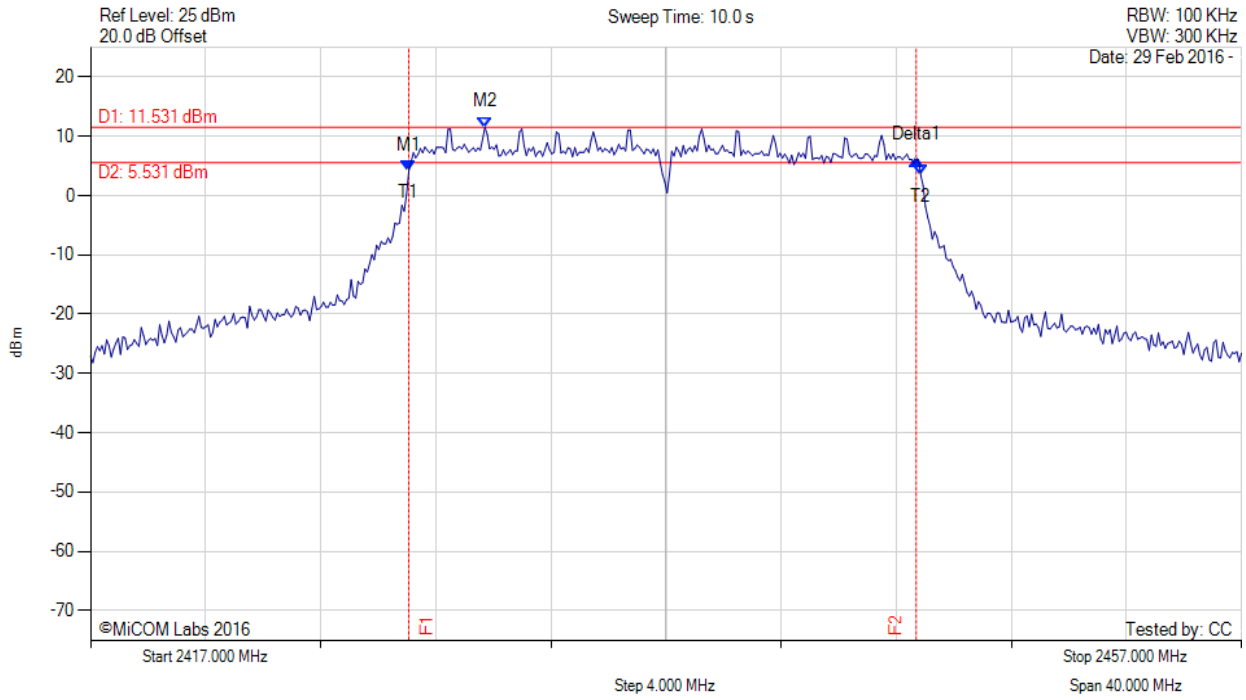
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.062 MHz : 4.101 dBm<br>M2 : 2430.707 MHz : 11.531 dBm<br>Delta1 : 17.635 MHz : 1.885 dB<br>T1 : 2428.062 MHz : 4.101 dBm<br>T2 : 2445.858 MHz : 3.396 dBm<br>OBW : 17.796 MHz | Measured 6 dB Bandwidth: 17.635 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.14 MHz |

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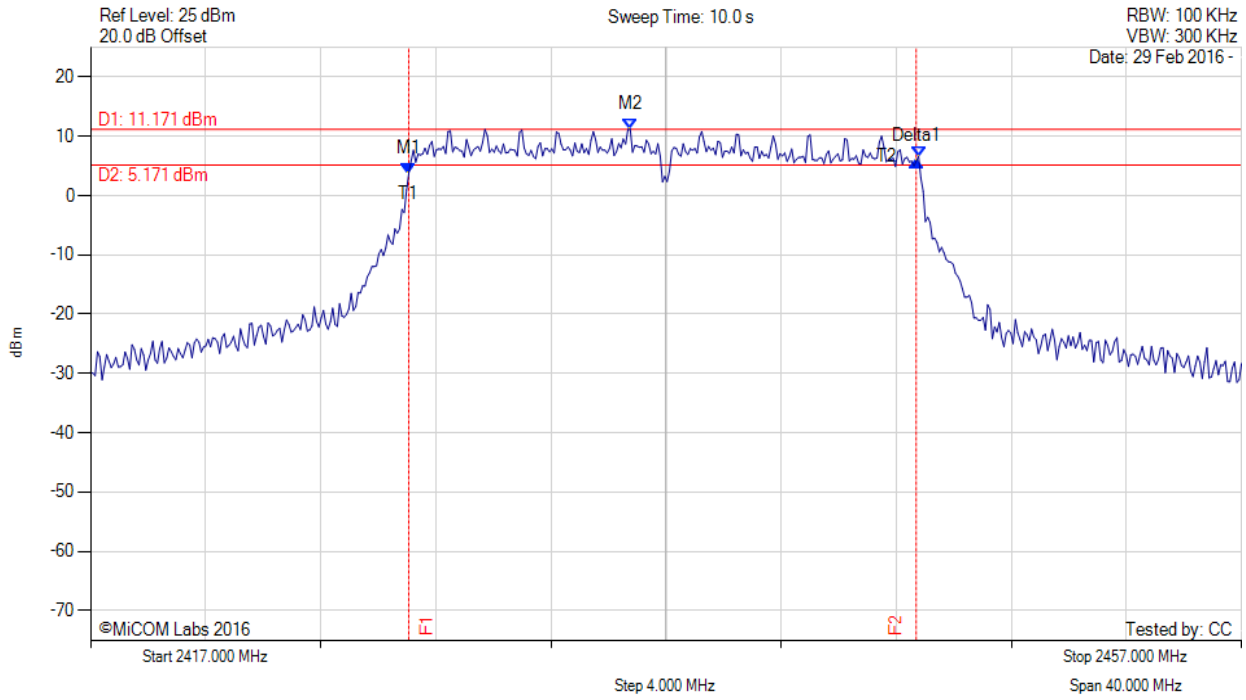
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.062 MHz : 3.804 dBm<br>M2 : 2435.758 MHz : 11.171 dBm<br>Delta1 : 17.635 MHz : 1.979 dB<br>T1 : 2428.062 MHz : 3.804 dBm<br>T2 : 2445.778 MHz : 6.625 dBm<br>OBW : 17.715 MHz | Measured 6 dB Bandwidth: 17.635 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.14 MHz |

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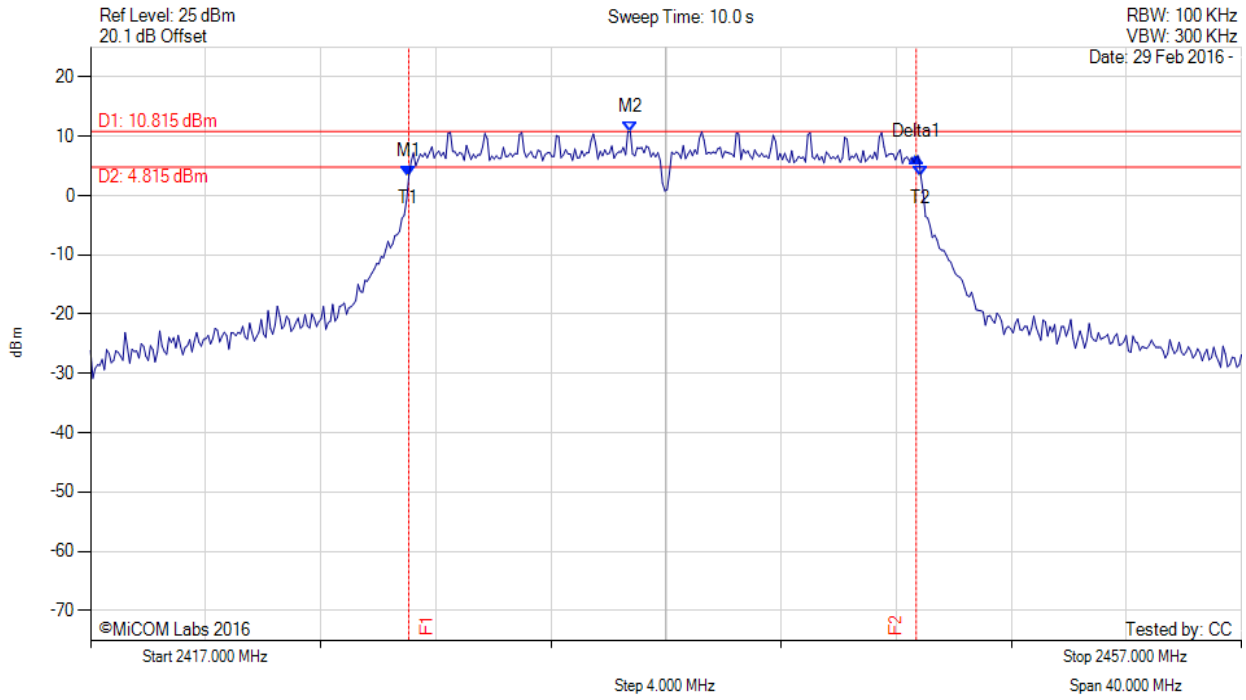
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-20, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2428.062 MHz : 3.215 dBm<br>M2 : 2435.758 MHz : 10.815 dBm<br>Delta1 : 17.635 MHz : 3.221 dB<br>T1 : 2428.062 MHz : 3.215 dBm<br>T2 : 2445.858 MHz : 3.221 dBm<br>OBW : 17.796 MHz | Measured 6 dB Bandwidth: 17.635 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.14 MHz |

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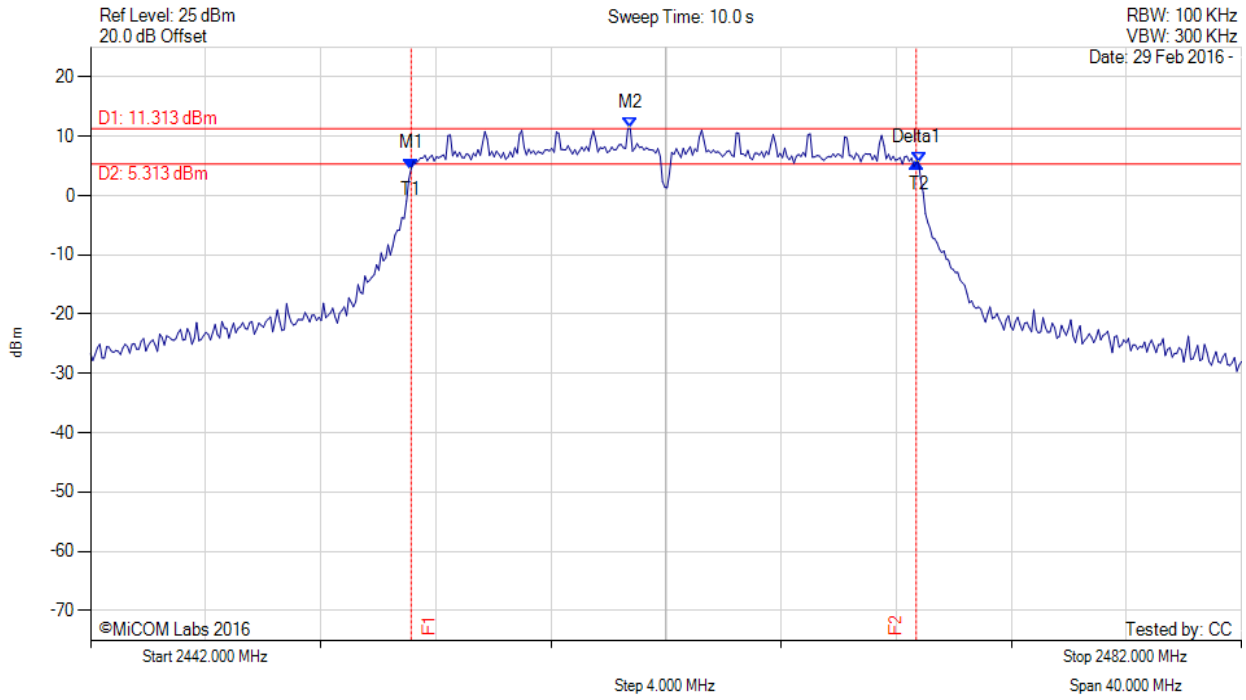
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2453.142 MHz : 4.518 dBm<br>M2 : 2460.758 MHz : 11.313 dBm<br>Delta1 : 17.555 MHz : 1.005 dB<br>T1 : 2453.142 MHz : 4.518 dBm<br>T2 : 2470.778 MHz : 5.596 dBm<br>OBW : 17.635 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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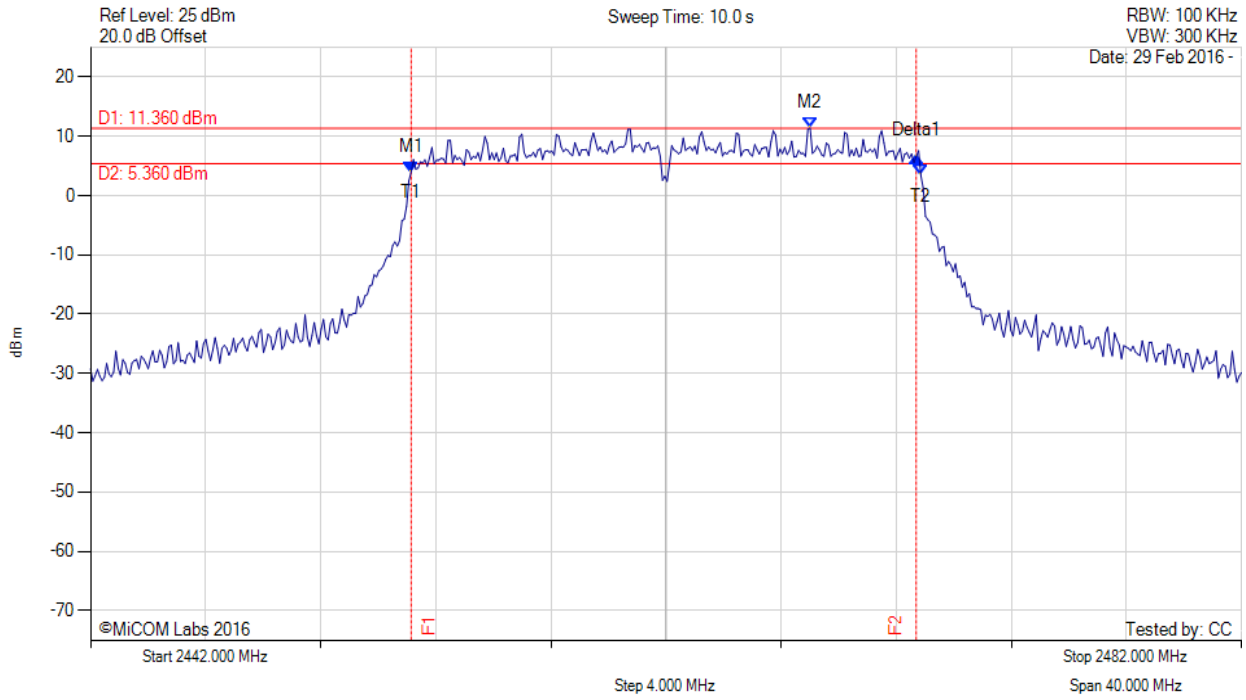
6 dB & 99% BANDWIDTHVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2453.142 MHz : 4.018 dBm<br>M2 : 2467.010 MHz : 11.360 dBm<br>Delta1 : 17.555 MHz : 2.593 dB<br>T1 : 2453.142 MHz : 4.018 dBm<br>T2 : 2470.858 MHz : 3.426 dBm<br>OBW : 17.715 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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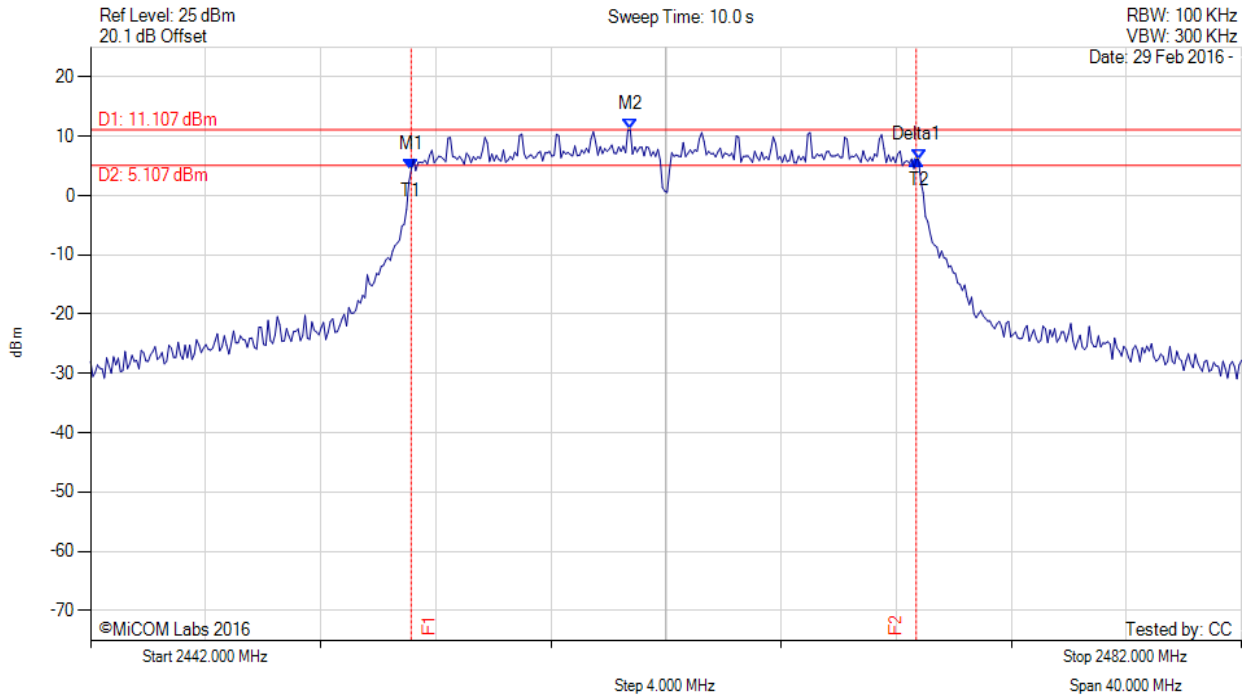
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-20, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2453.142 MHz : 4.321 dBm<br>M2 : 2460.758 MHz : 11.107 dBm<br>Delta1 : 17.555 MHz : 1.694 dB<br>T1 : 2453.142 MHz : 4.321 dBm<br>T2 : 2470.778 MHz : 6.147 dBm<br>OBW : 17.635 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Limit: ≥500.0 kHz<br>Margin: -17.06 MHz |

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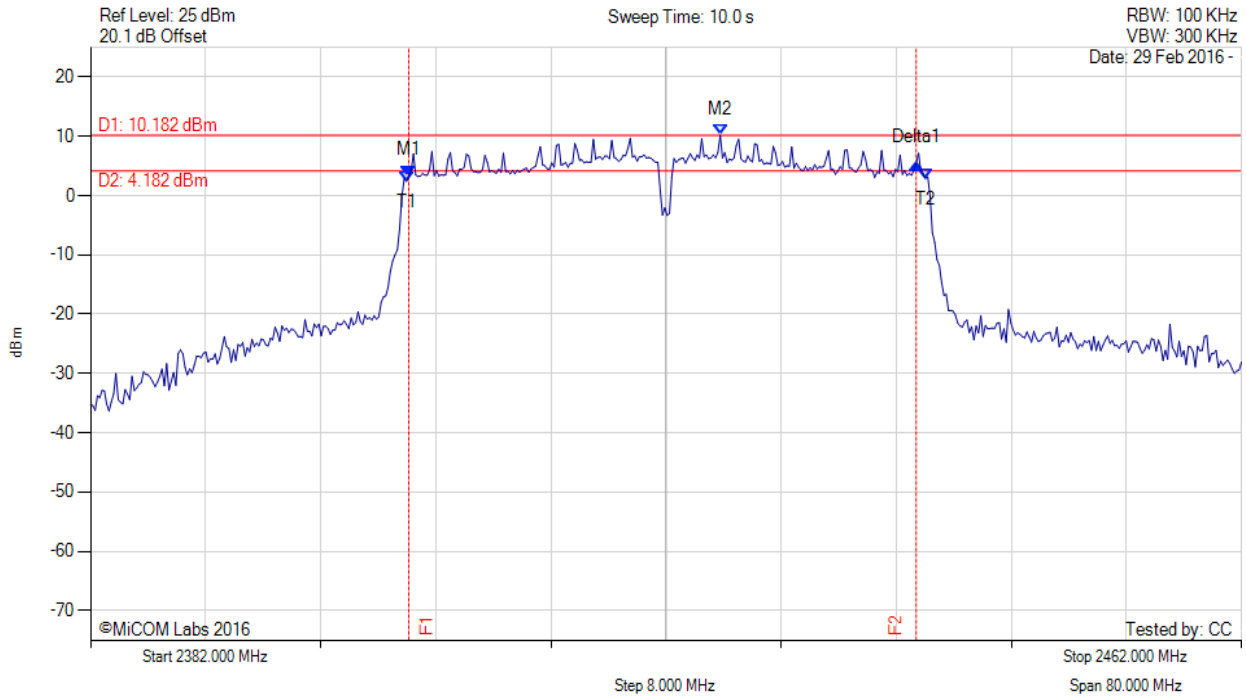
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2404.124 MHz : 3.345 dBm<br>M2 : 2425.768 MHz : 10.182 dBm<br>Delta1 : 35.271 MHz : 2.117 dB<br>T1 : 2403.964 MHz : 2.425 dBm<br>T2 : 2440.036 MHz : 2.895 dBm<br>OBW : 36.072 MHz | Measured 6 dB Bandwidth: 35.271 MHz<br>Limit: ≥500.0 kHz<br>Margin: -34.77 MHz |

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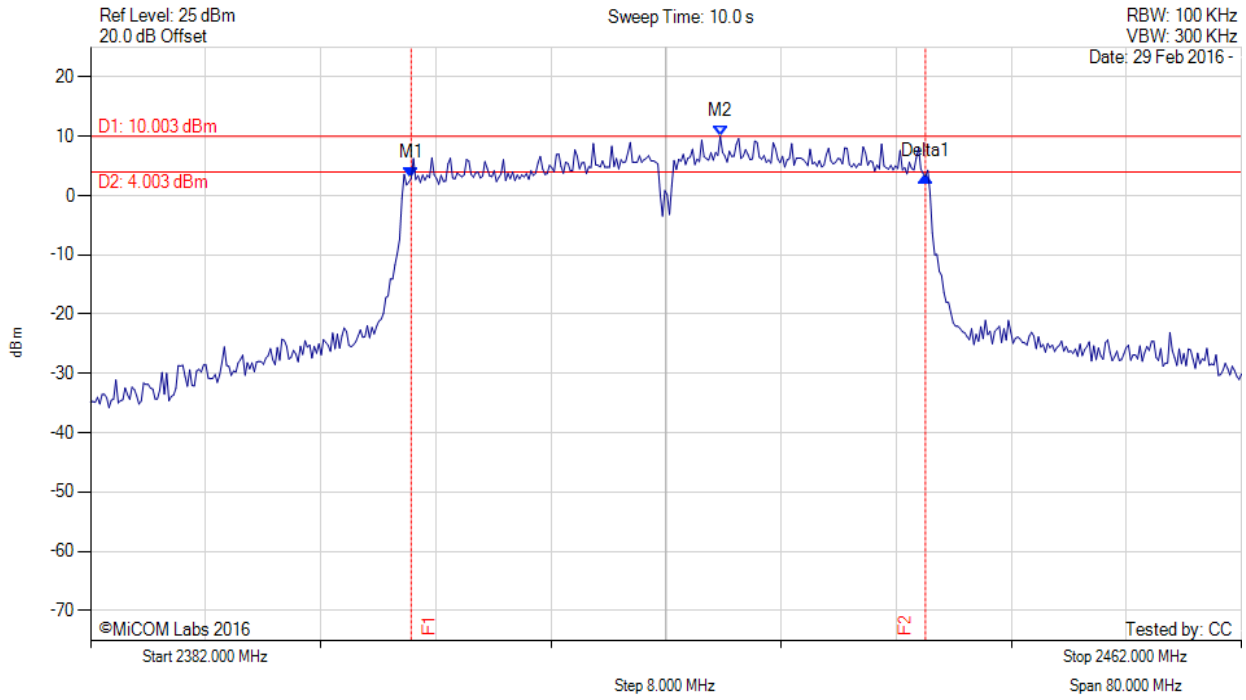
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2404.285 MHz : 2.911 dBm<br>M2 : 2425.768 MHz : 10.003 dBm<br>Delta1 : 35.752 MHz : 0.342 dB<br>T1 : 0 Hz : 500.000 dBm<br>T2 : 0 Hz : 500.000 dBm<br>OBW : 36.232 MHz | Measured 6 dB Bandwidth: 35.752 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.25 MHz |

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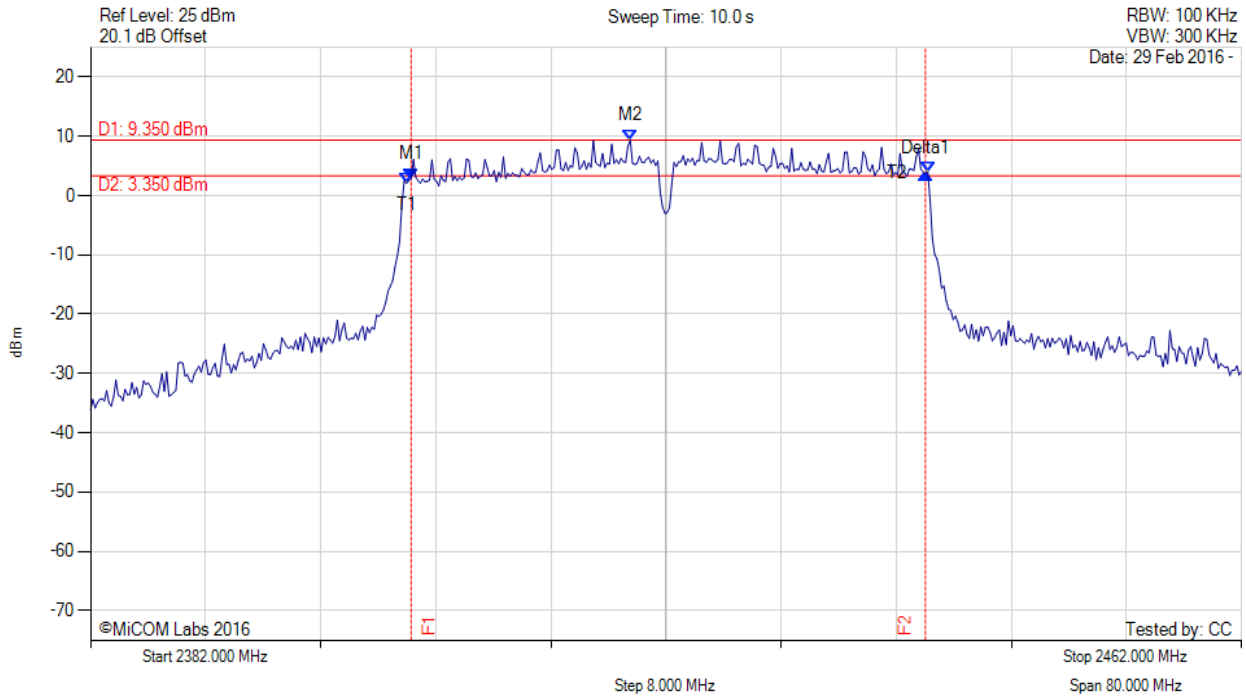
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-40, Channel: 2422.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2404.285 MHz : 2.861 dBm<br>M2 : 2419.515 MHz : 9.350 dBm<br>Delta1 : 35.752 MHz : 0.752 dB<br>T1 : 2403.964 MHz : 2.082 dBm<br>T2 : 2440.196 MHz : 3.963 dBm<br>OBW : 36.232 MHz | Measured 6 dB Bandwidth: 35.752 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.25 MHz |

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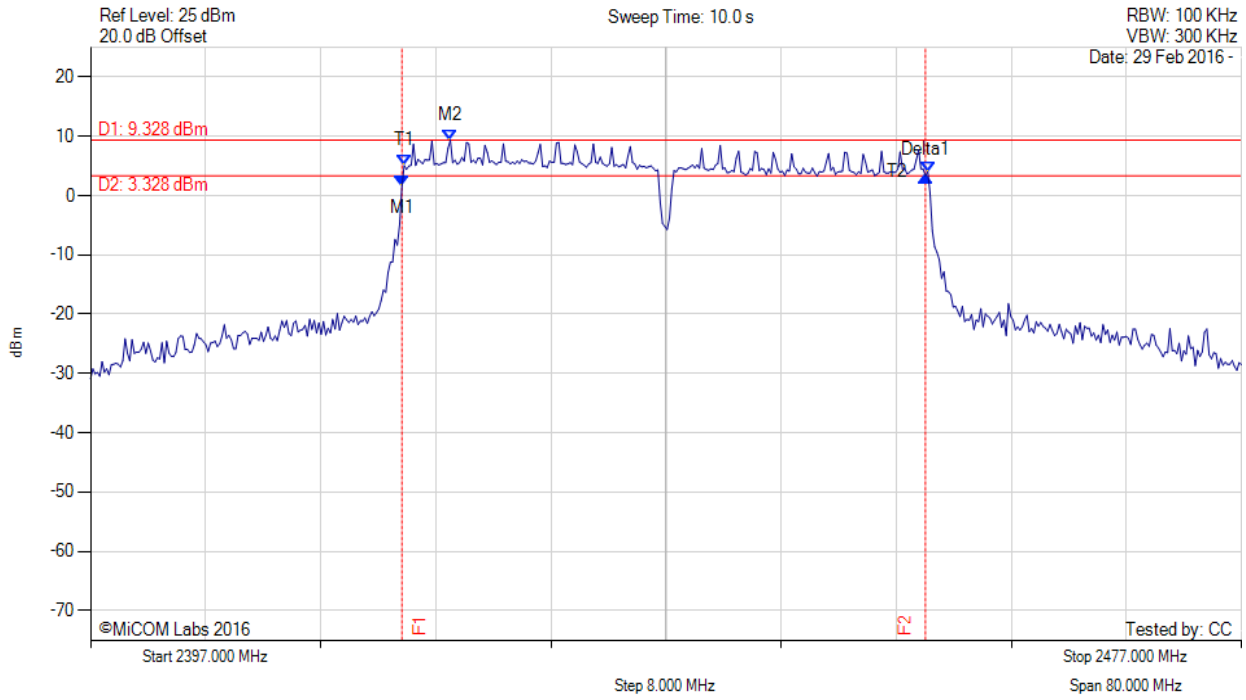
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2418.643 MHz : 1.592 dBm<br>M2 : 2422.010 MHz : 9.328 dBm<br>Delta1 : 36.393 MHz : 1.755 dB<br>T1 : 2418.804 MHz : 5.071 dBm<br>T2 : 2455.196 MHz : 4.016 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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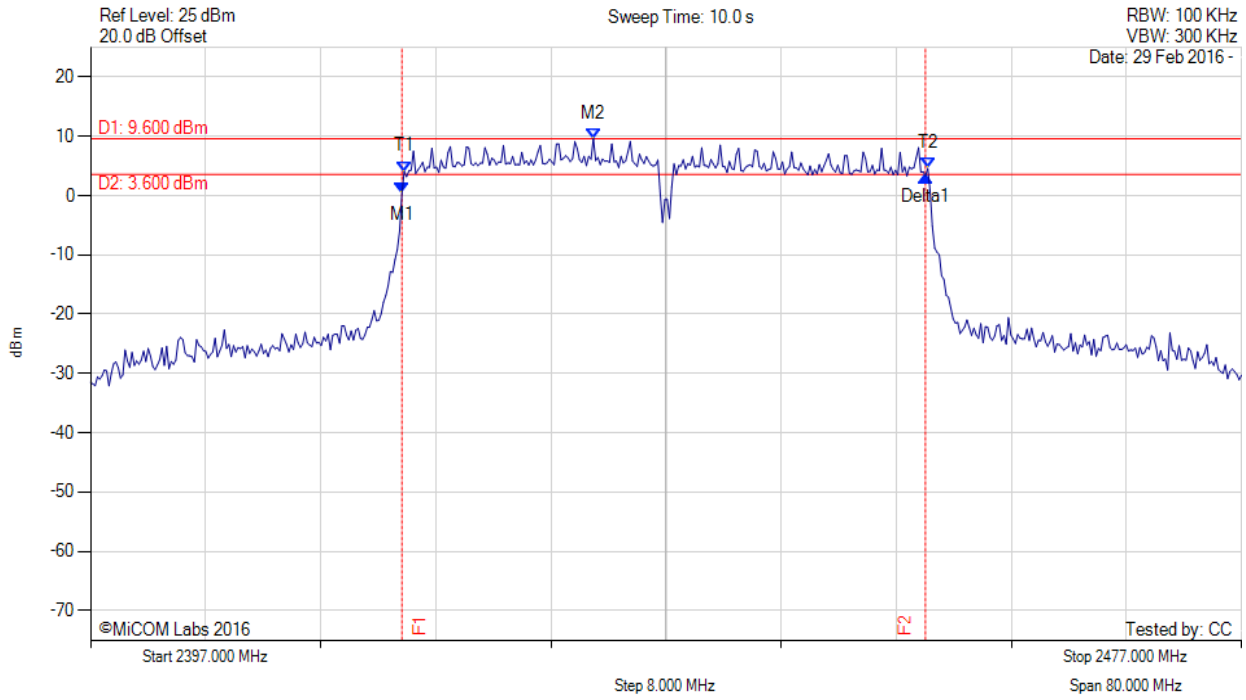
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2418.643 MHz : 0.363 dBm<br>M2 : 2431.950 MHz : 9.600 dBm<br>Delta1 : 36.393 MHz : 2.992 dB<br>T1 : 2418.804 MHz : 4.059 dBm<br>T2 : 2455.196 MHz : 4.591 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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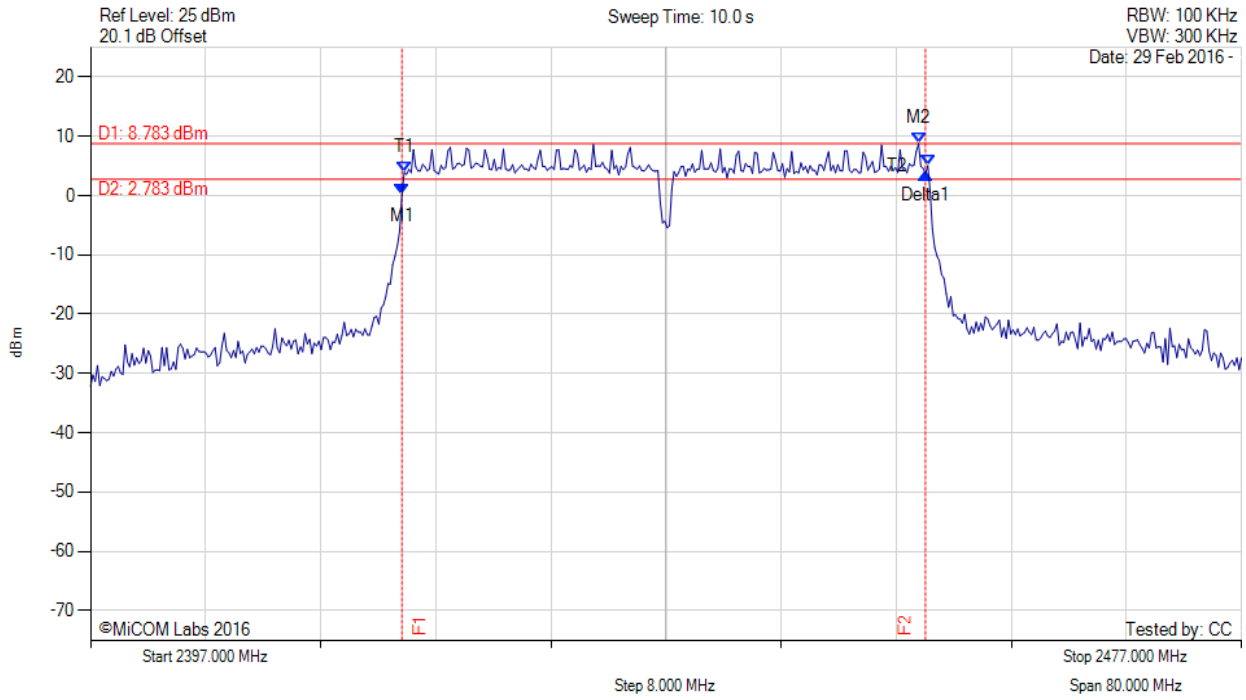
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-40, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2418.643 MHz : 0.117 dBm<br>M2 : 2454.555 MHz : 8.783 dBm<br>Delta1 : 36.393 MHz : 3.614 dB<br>T1 : 2418.804 MHz : 3.936 dBm<br>T2 : 2455.196 MHz : 5.039 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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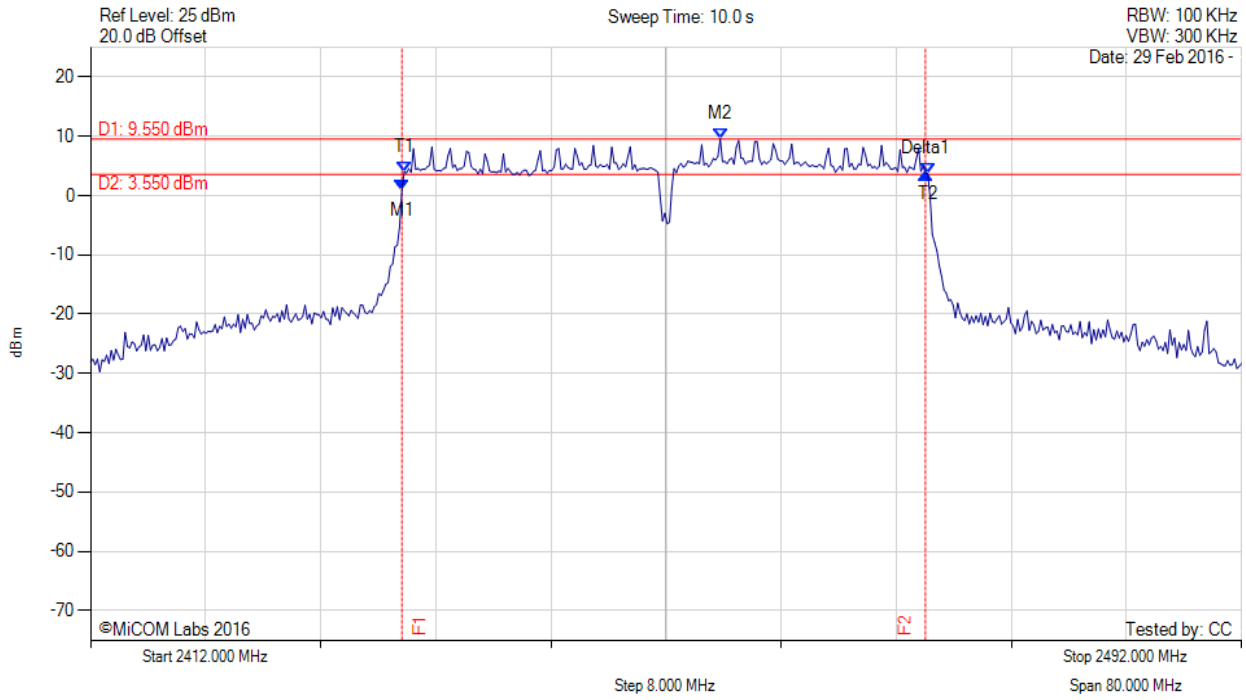
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2433.643 MHz : 1.004 dBm<br>M2 : 2455.768 MHz : 9.550 dBm<br>Delta1 : 36.393 MHz : 2.784 dB<br>T1 : 2433.804 MHz : 3.973 dBm<br>T2 : 2470.196 MHz : 3.774 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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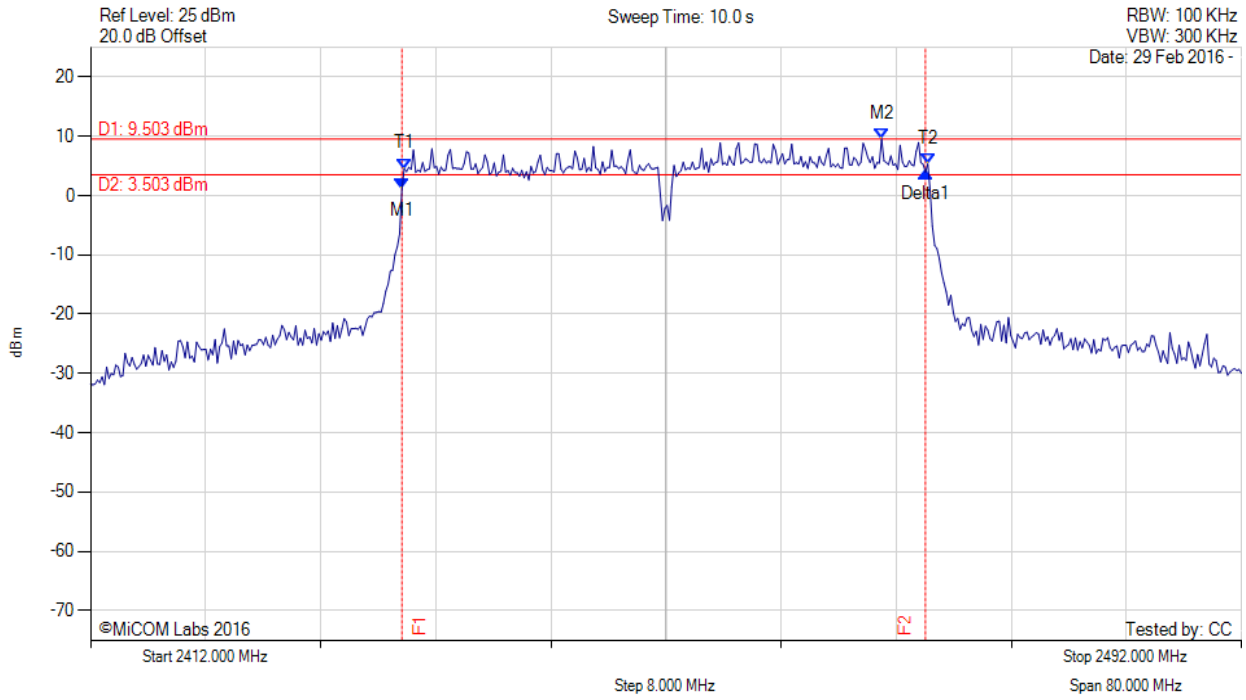
6 dB & 99% BANDWIDTHVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2433.643 MHz : 1.087 dBm<br>M2 : 2466.990 MHz : 9.503 dBm<br>Delta1 : 36.393 MHz : 2.880 dB<br>T1 : 2433.804 MHz : 4.526 dBm<br>T2 : 2470.196 MHz : 5.348 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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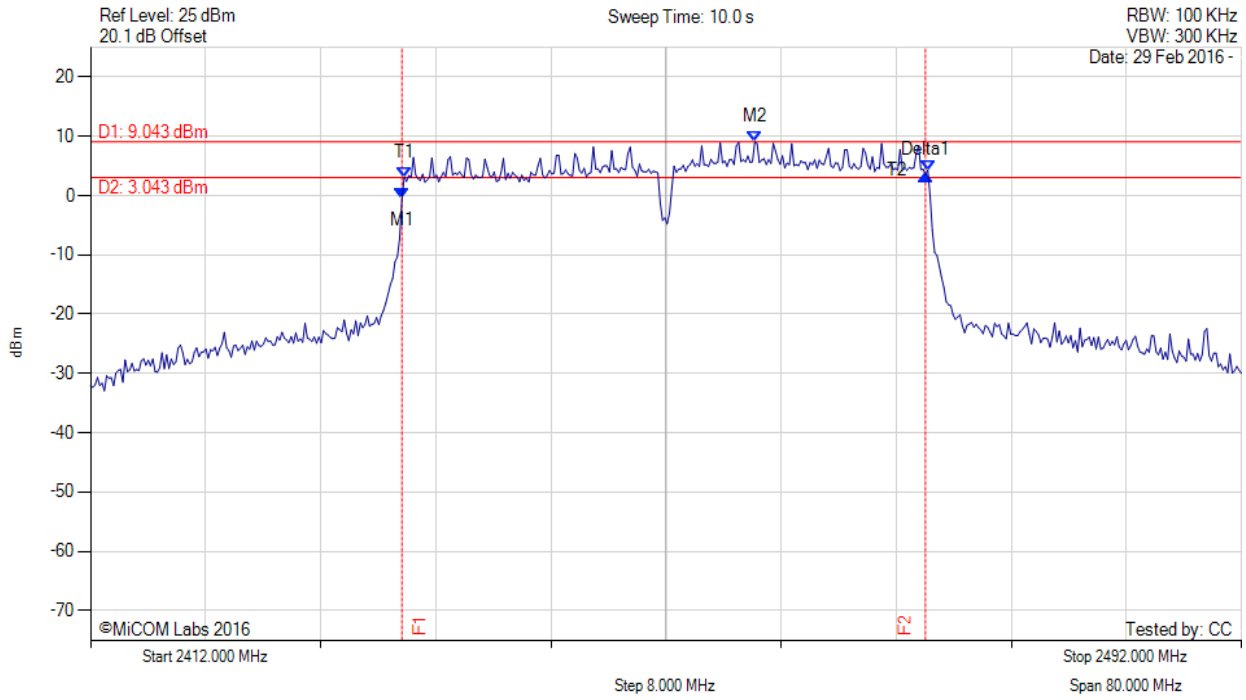
6 dB & 99% BANDWIDTH.Variant: 802.11n HT-40, Channel: 2452.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 2433.643 MHz : -0.597 dBm<br>M2 : 2458.172 MHz : 9.043 dBm<br>Delta1 : 36.393 MHz : 4.112 dB<br>T1 : 2433.804 MHz : 3.062 dBm<br>T2 : 2470.196 MHz : 4.299 dBm<br>OBW : 36.393 MHz | Measured 6 dB Bandwidth: 36.393 MHz<br>Limit: ≥500.0 kHz<br>Margin: -35.89 MHz |

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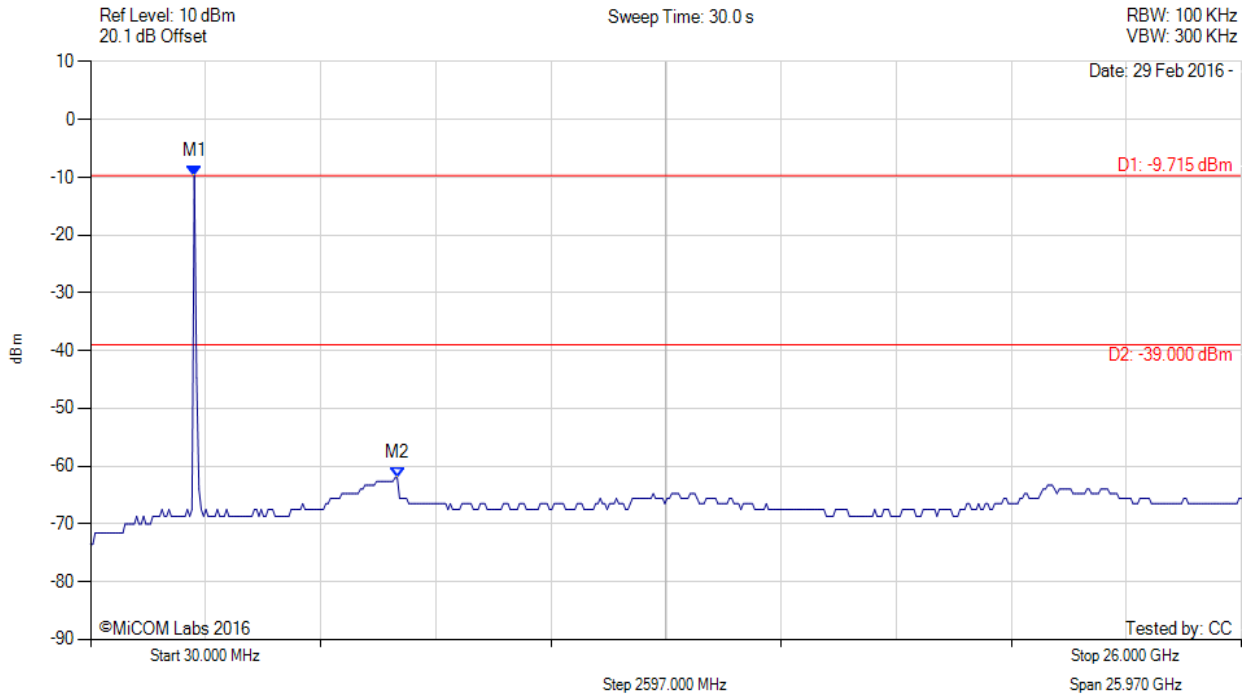
## A.2. Emissions

### A.2.1. Conducted Spurious Emissions

CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -9.715 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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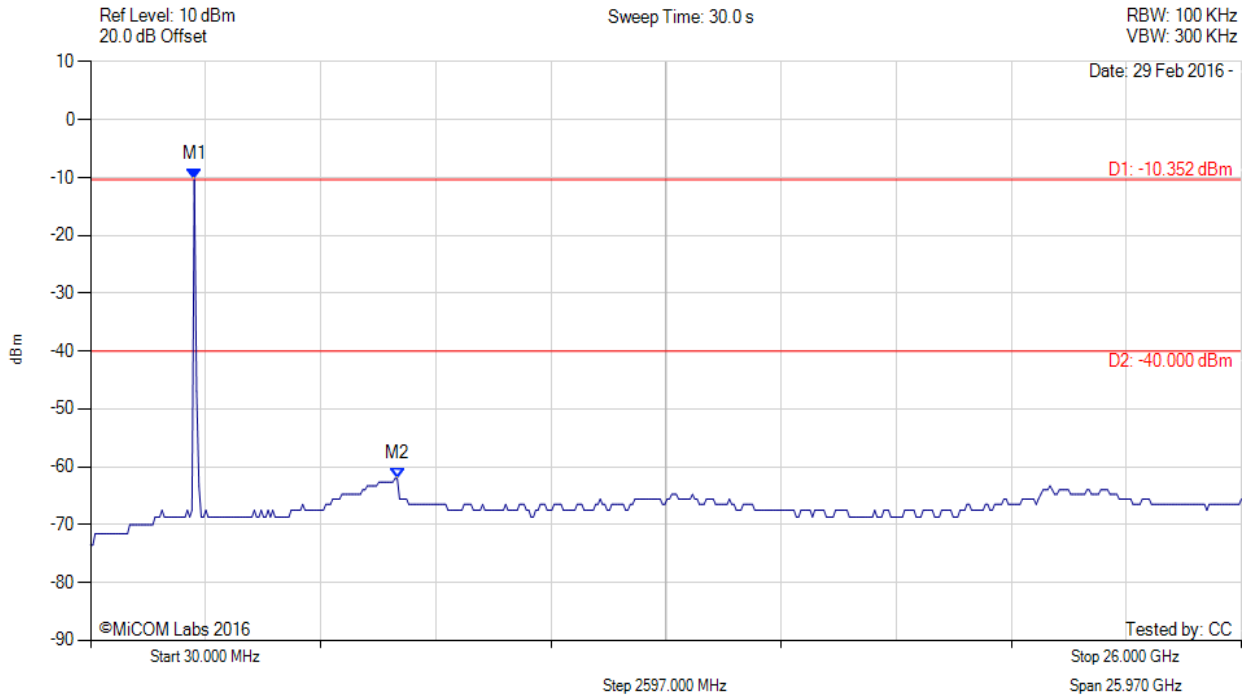
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.352 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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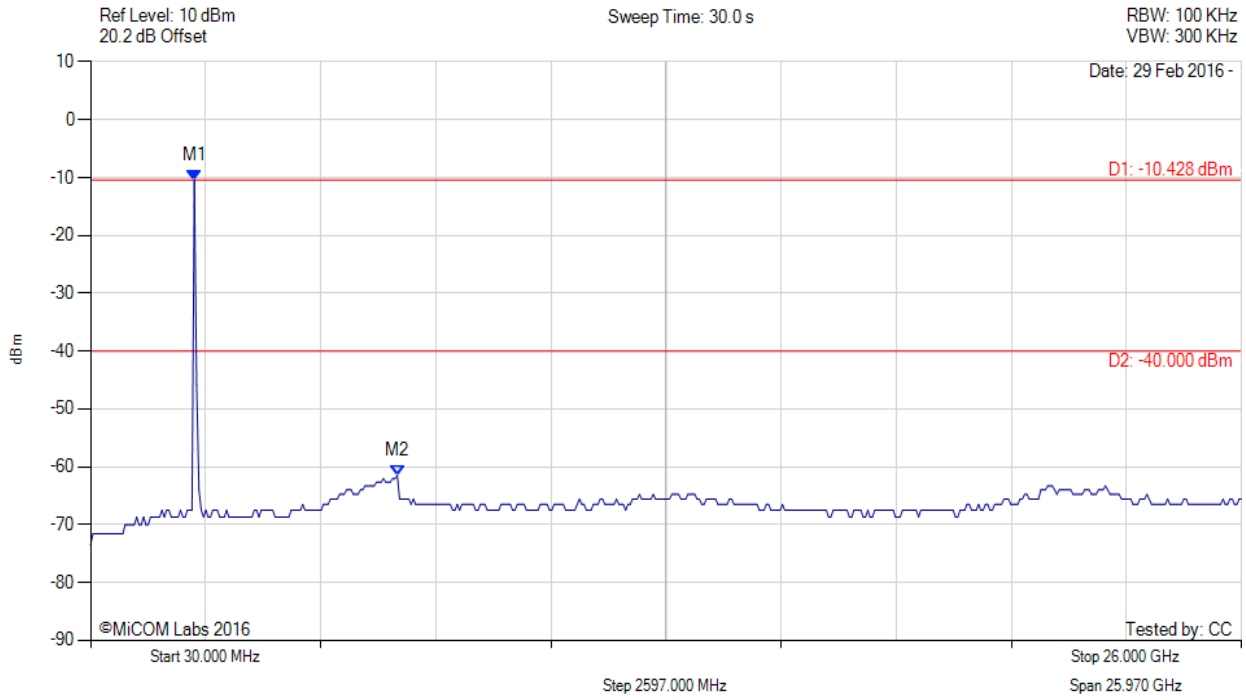
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.428 dBm<br>M2 : 6951.864 MHz : -61.483 dBm | Limit: -40.00 dBm<br>Margin: -21.48 dB |

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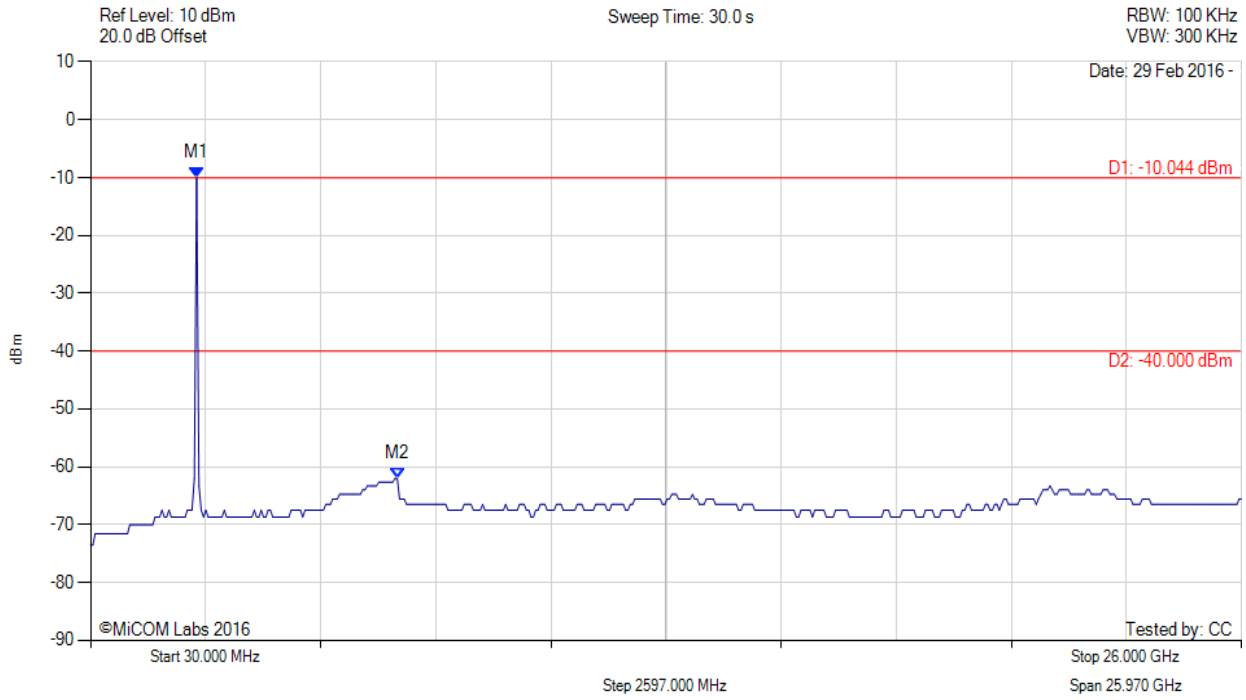
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.044 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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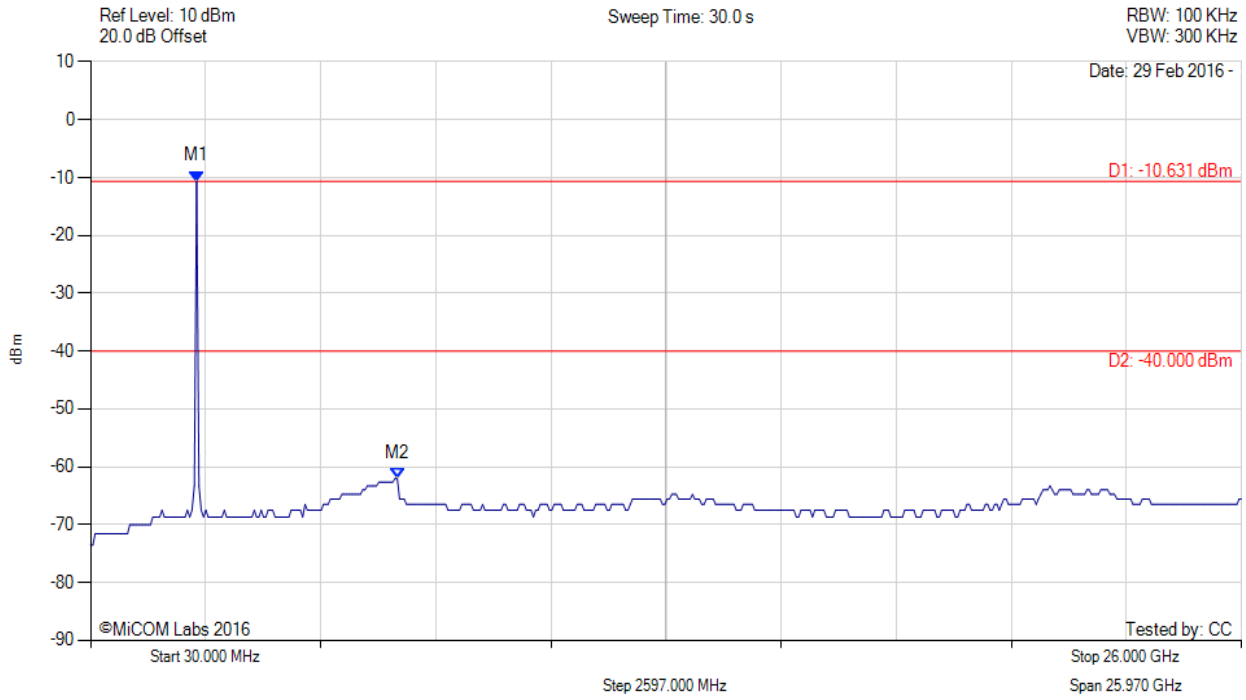
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.631 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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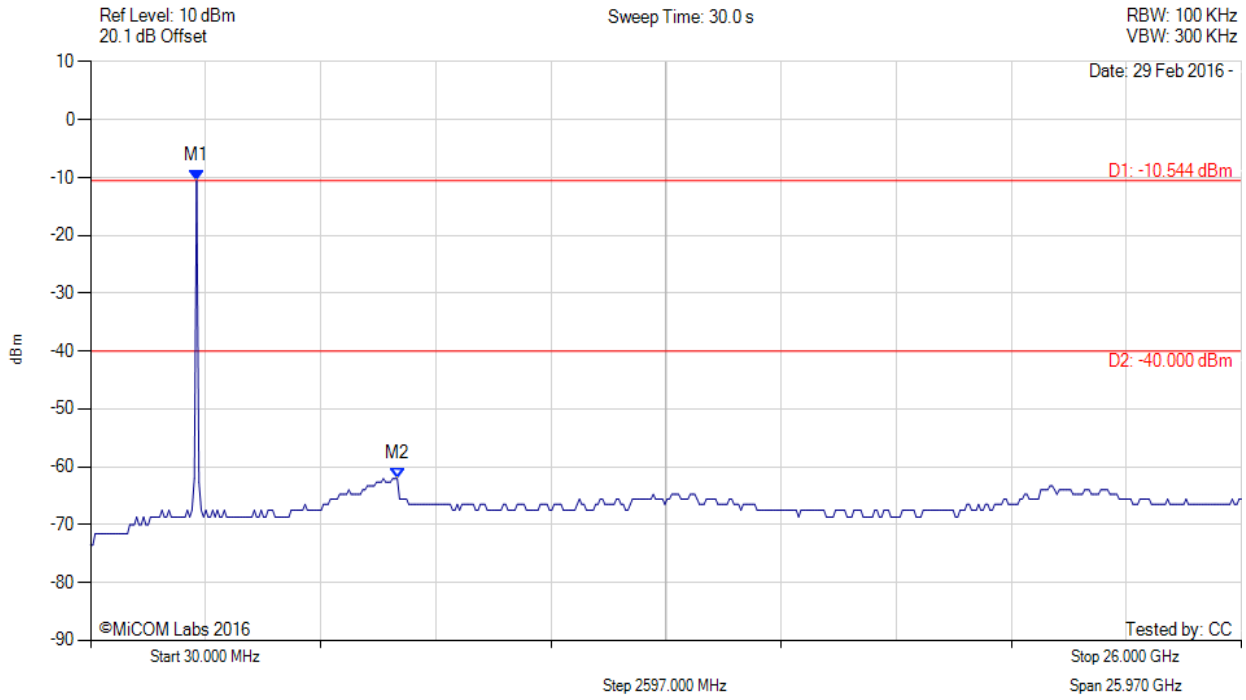
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.544 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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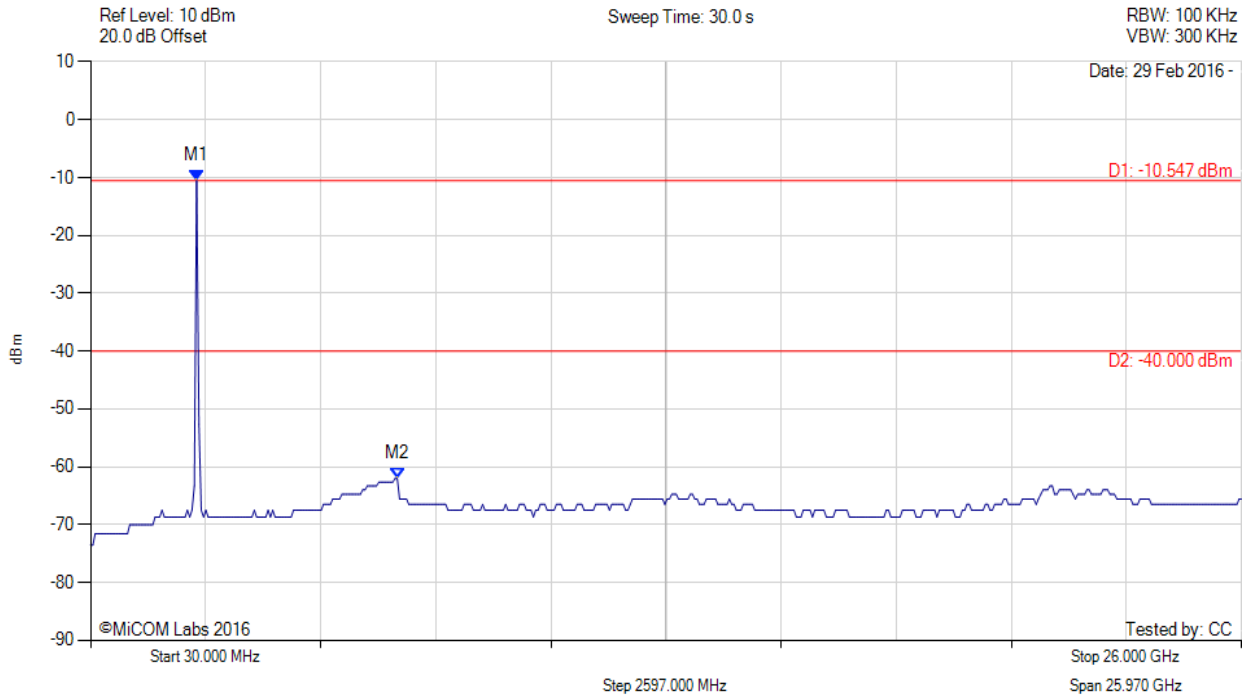
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.547 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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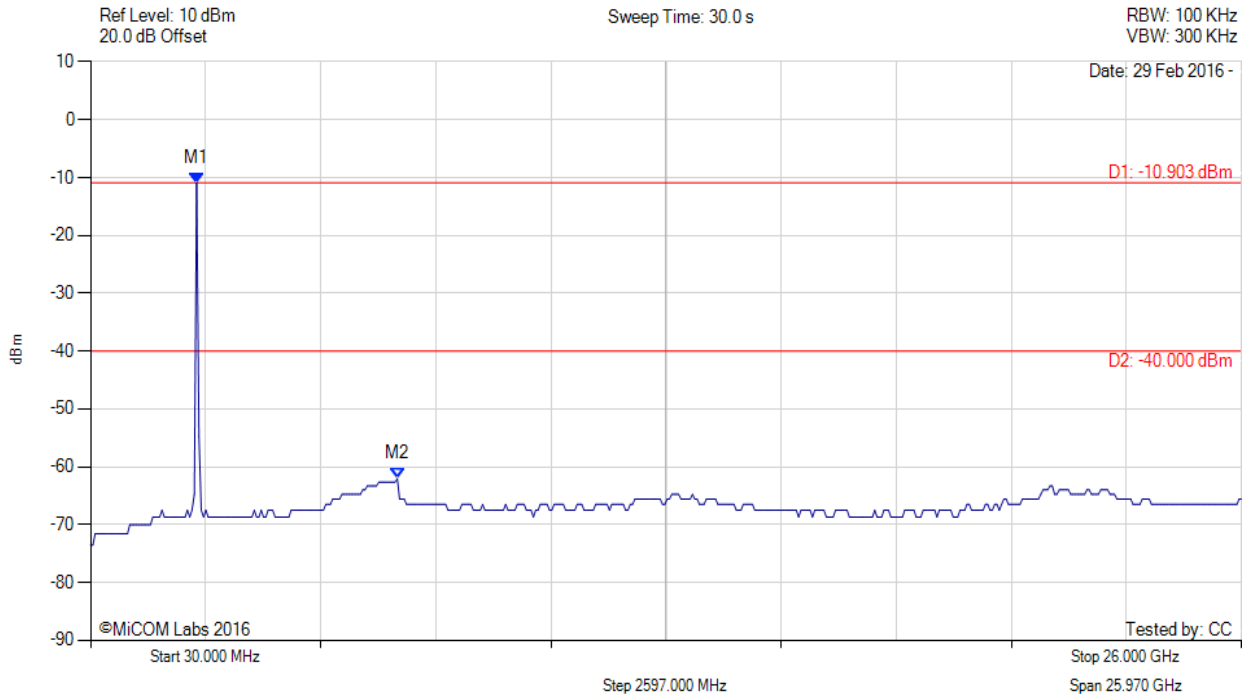
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.903 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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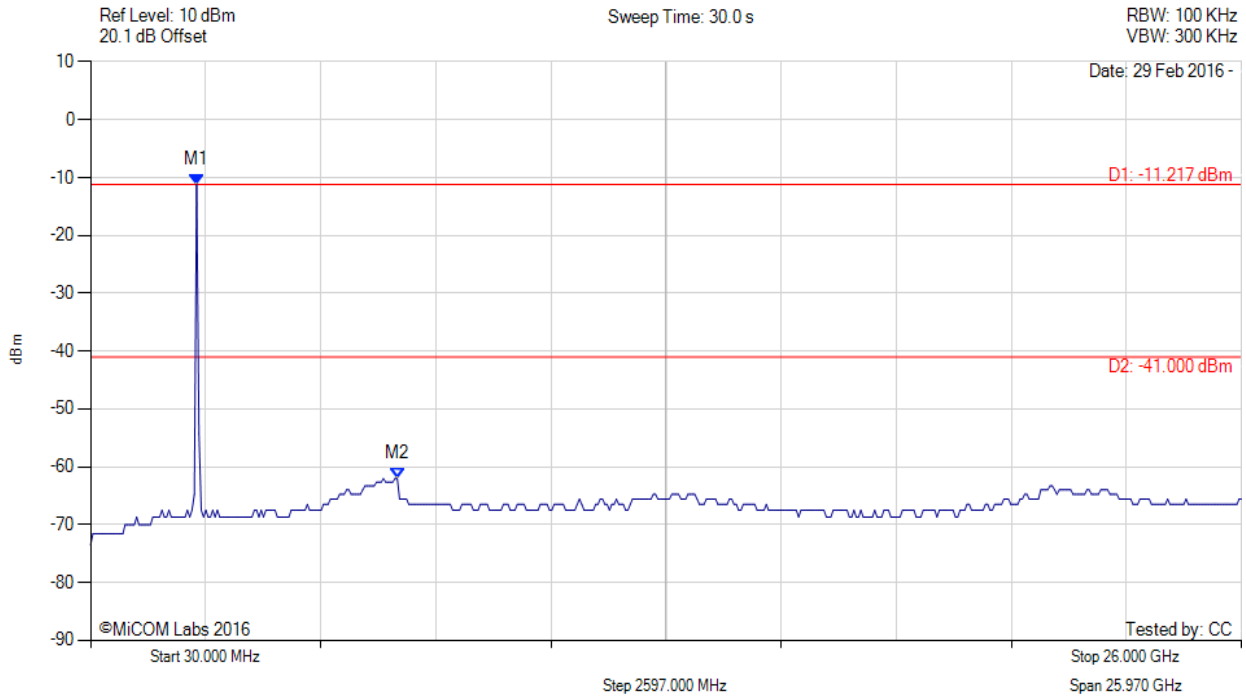
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -11.217 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -41.00 dBm<br>Margin: -21.04 dB |

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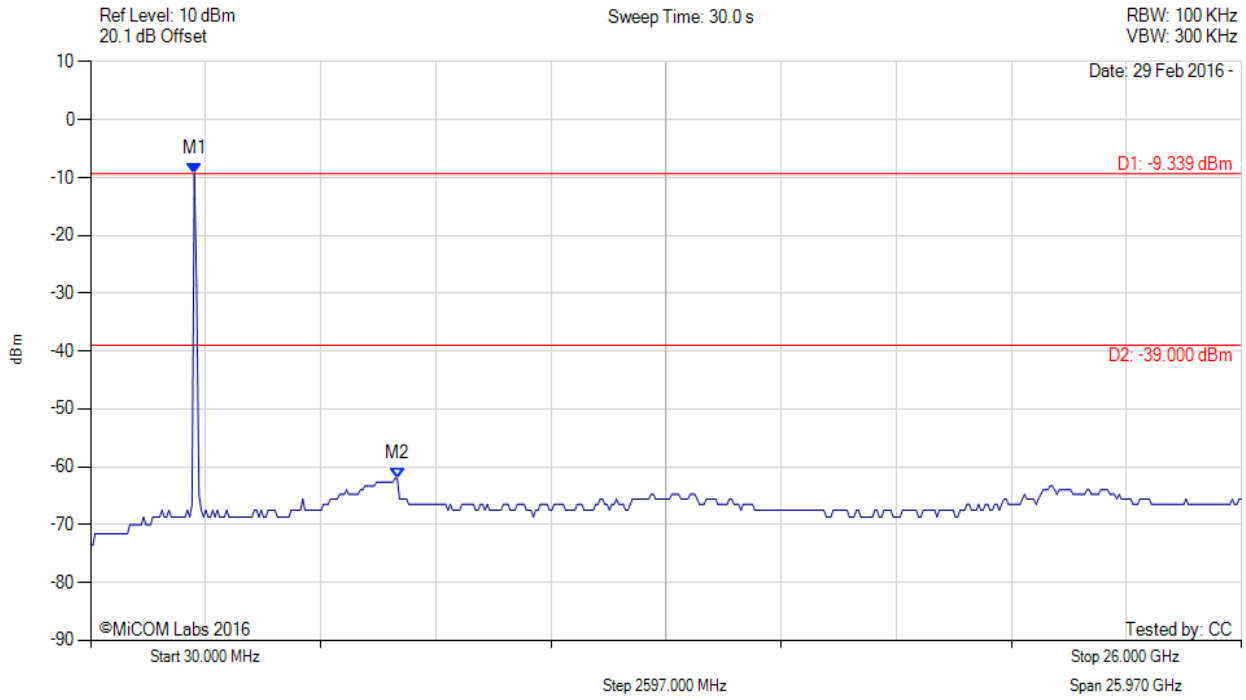
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -9.339 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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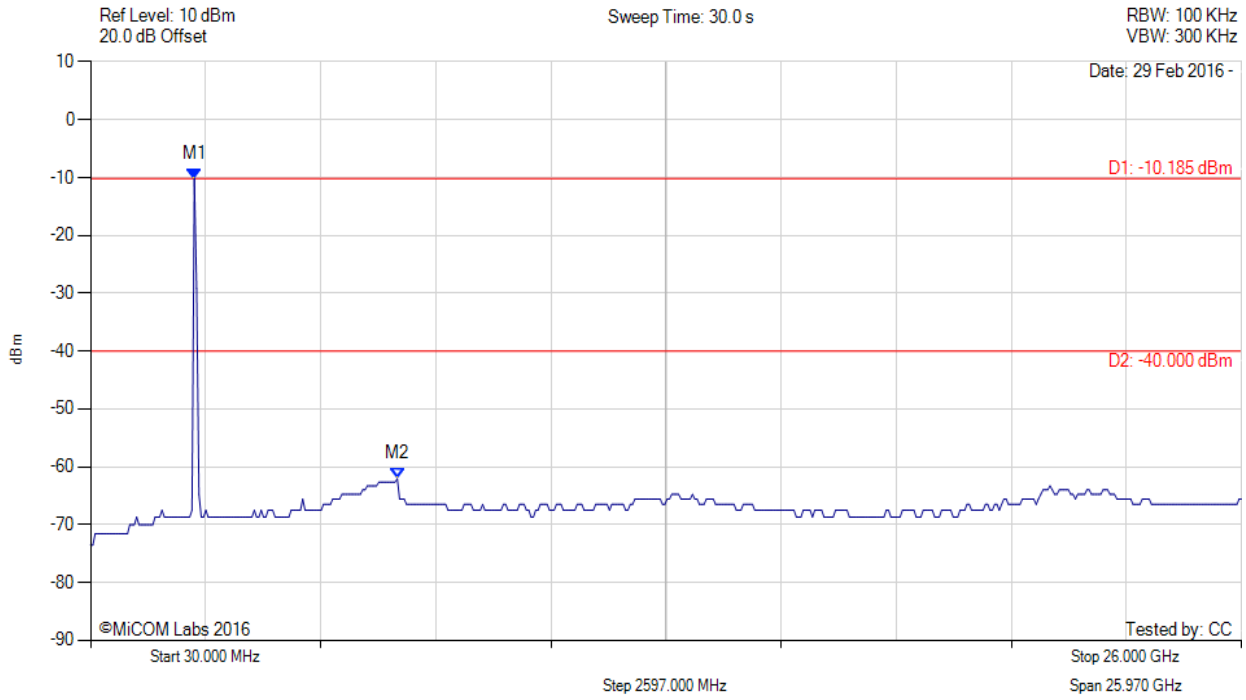
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.185 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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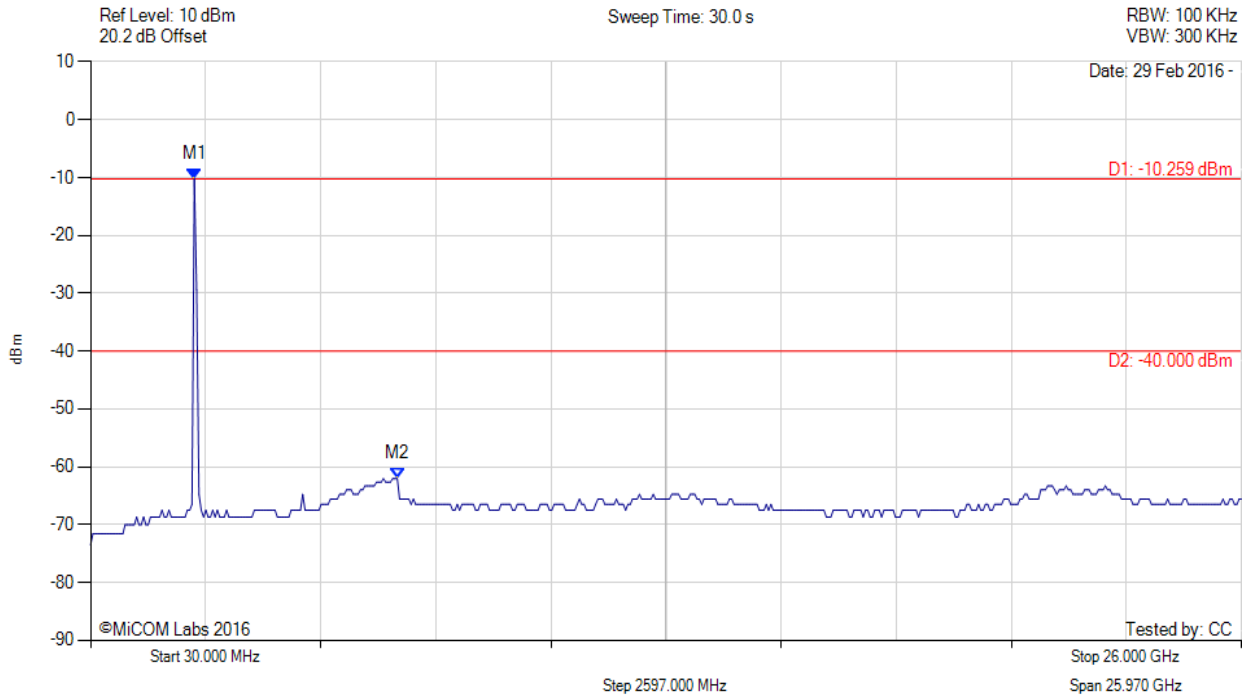
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.259 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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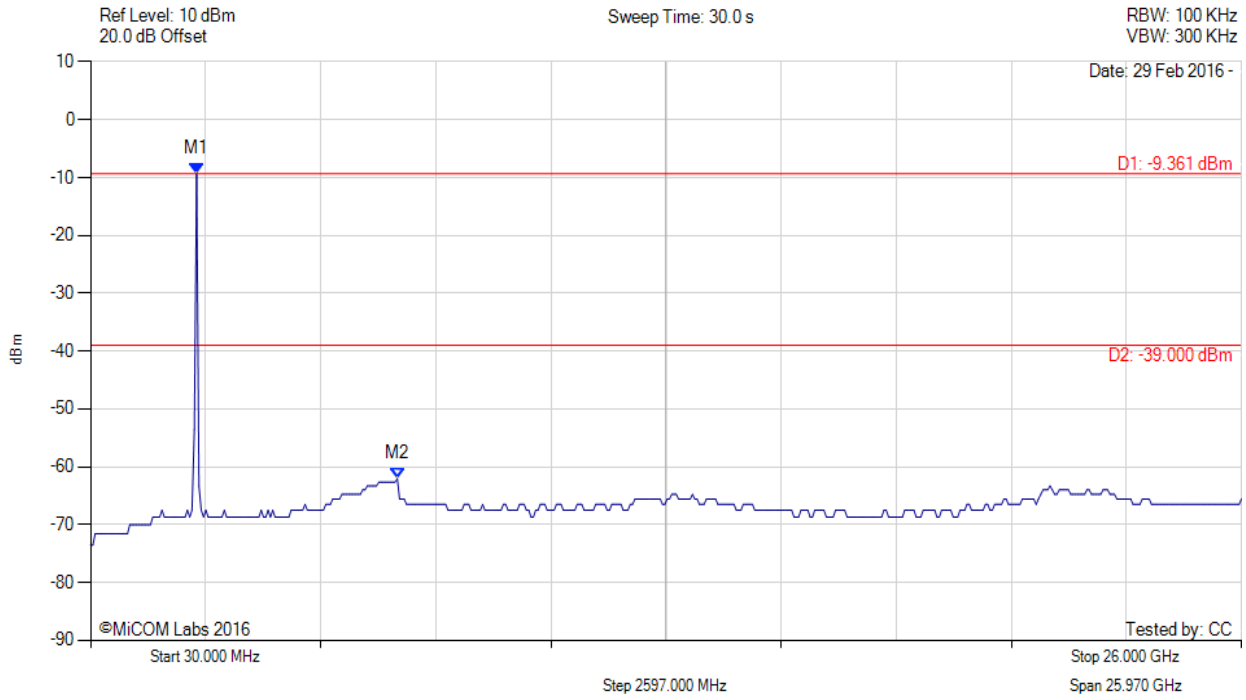
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.361 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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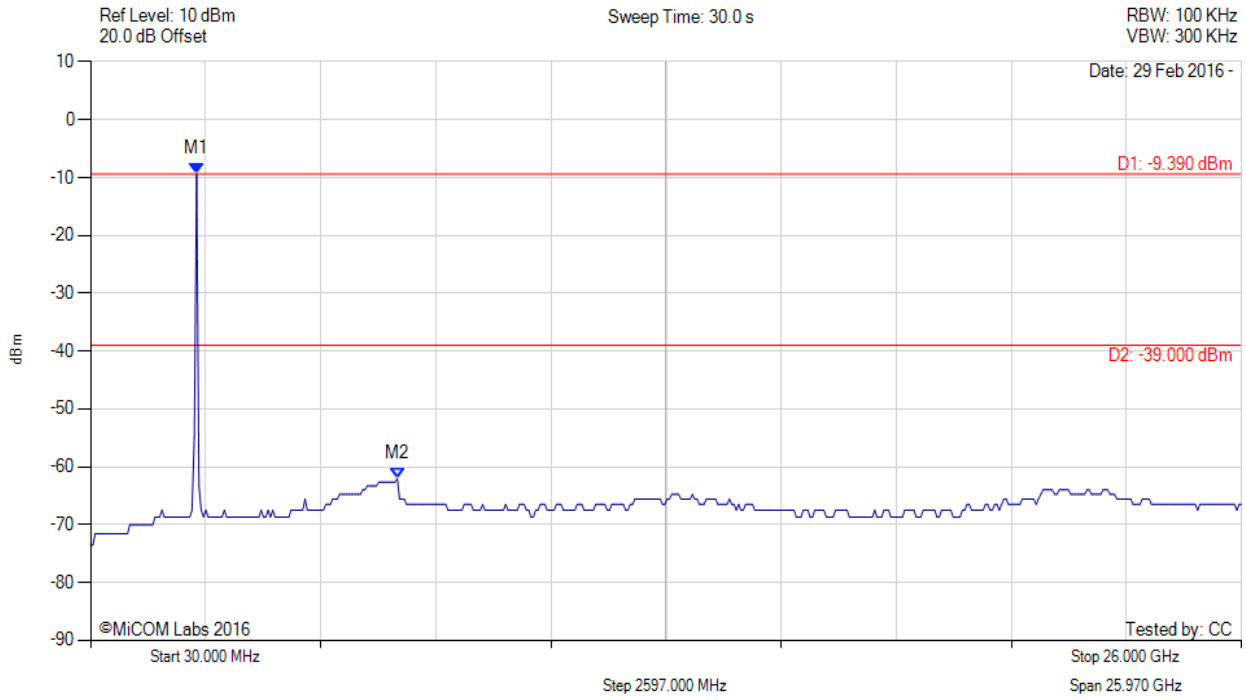
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.390 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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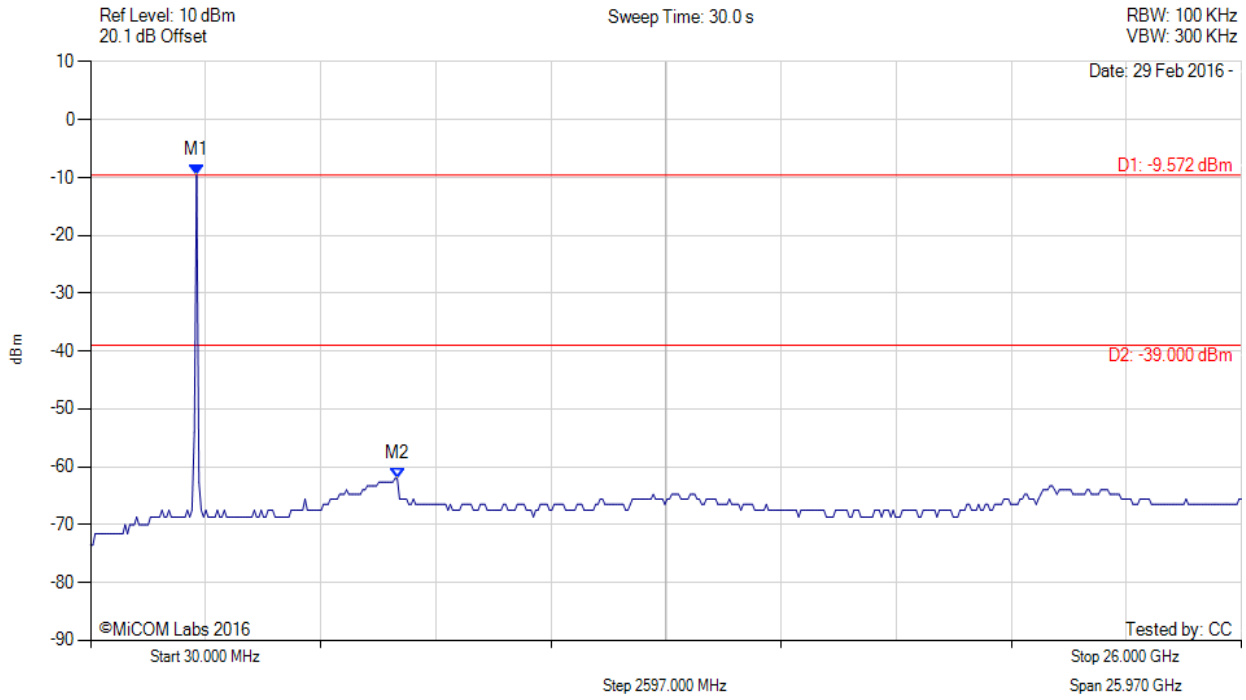
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.572 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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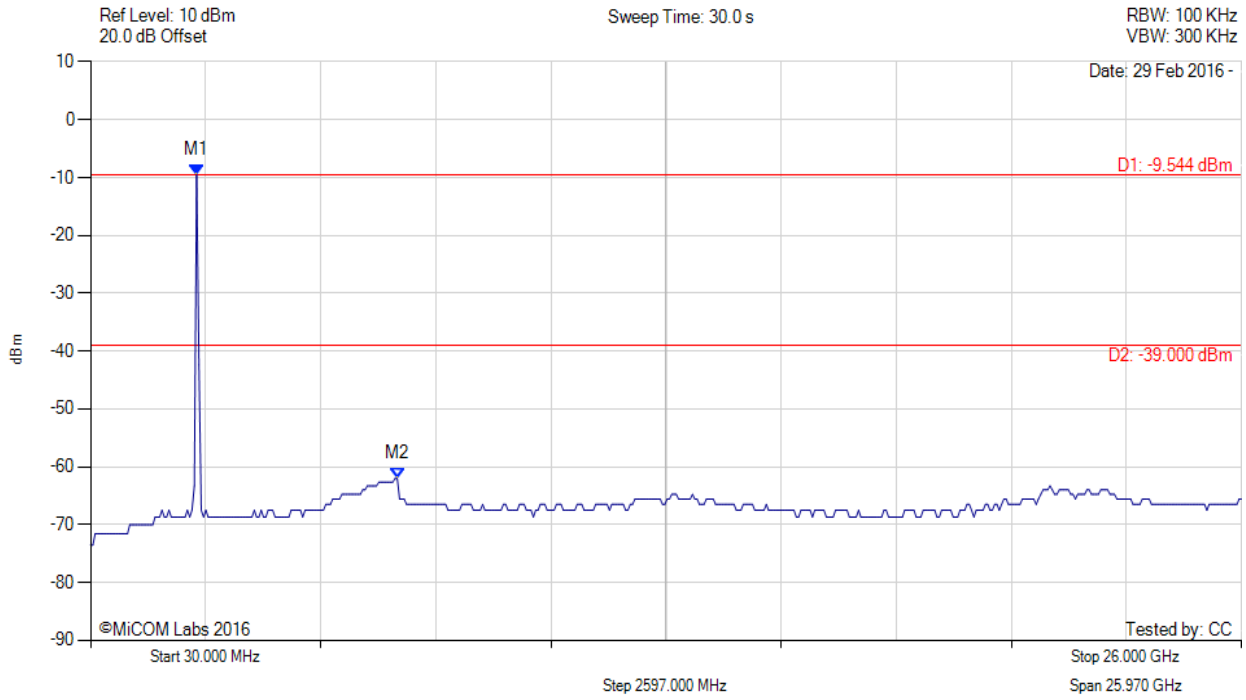
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.544 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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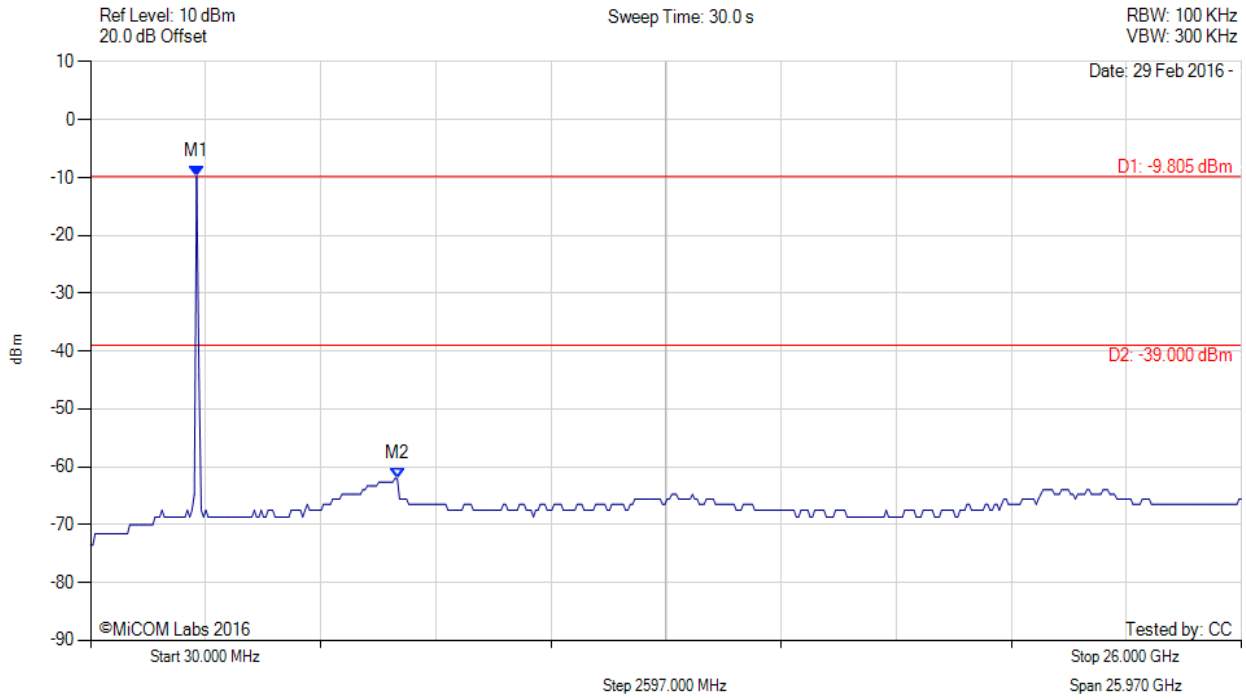
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.805 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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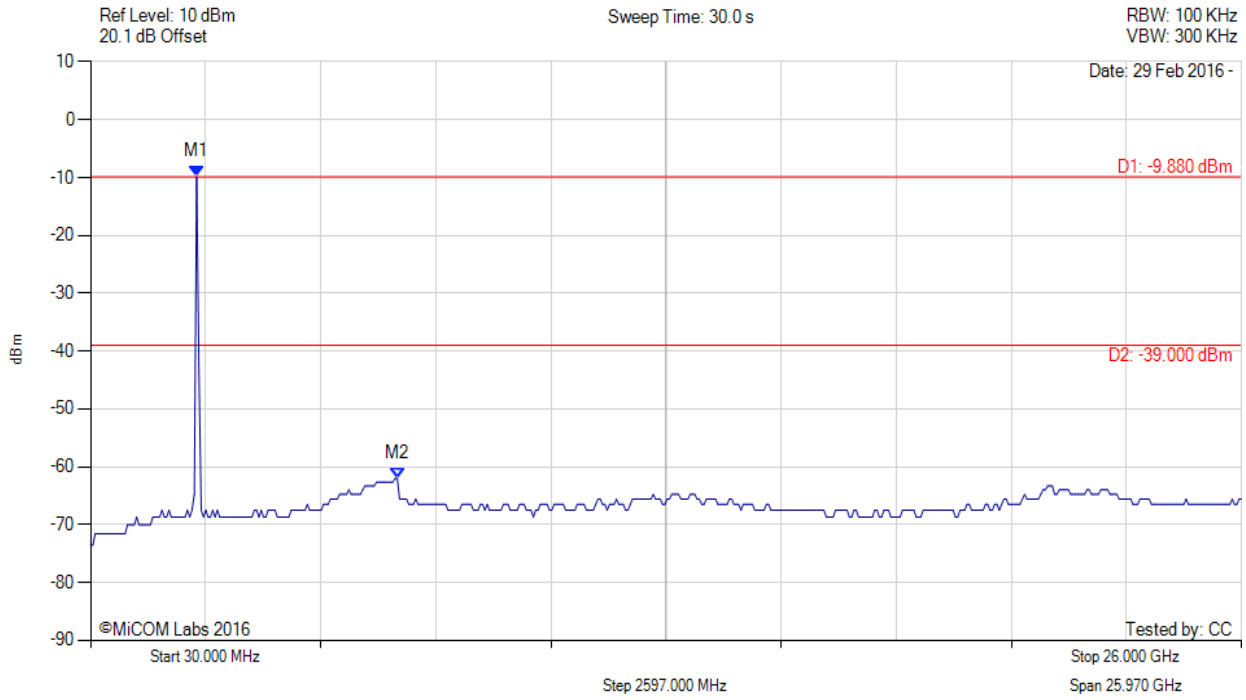
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.880 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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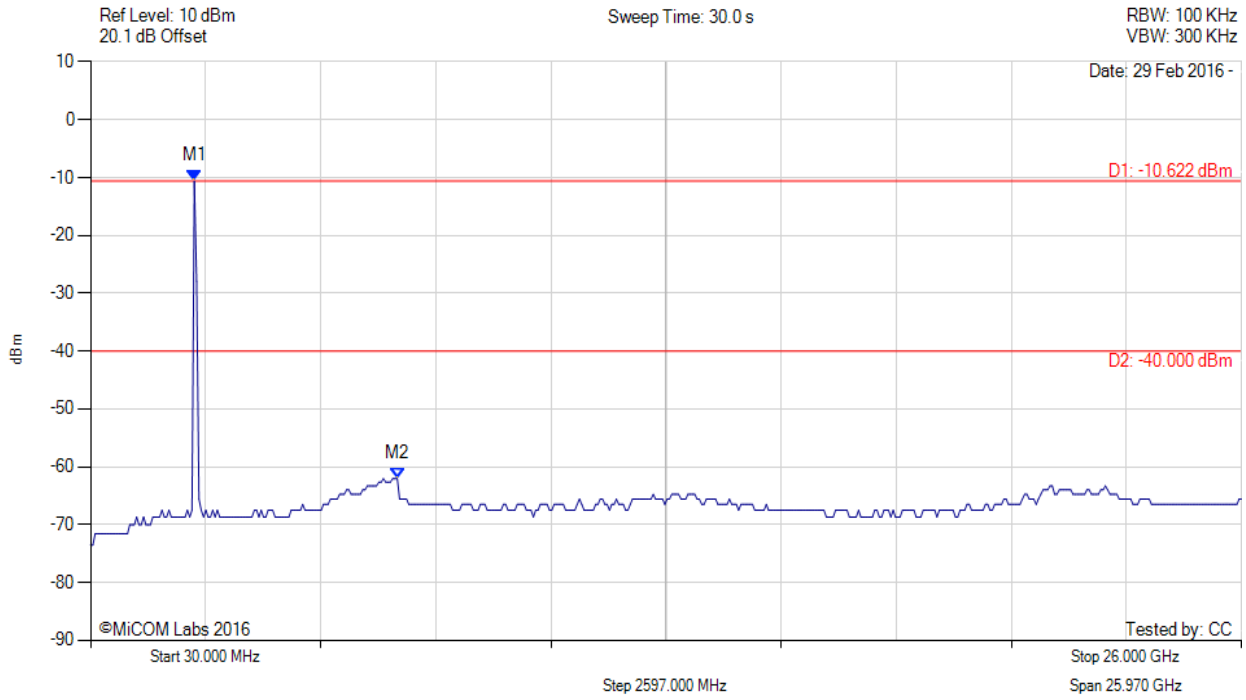
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.622 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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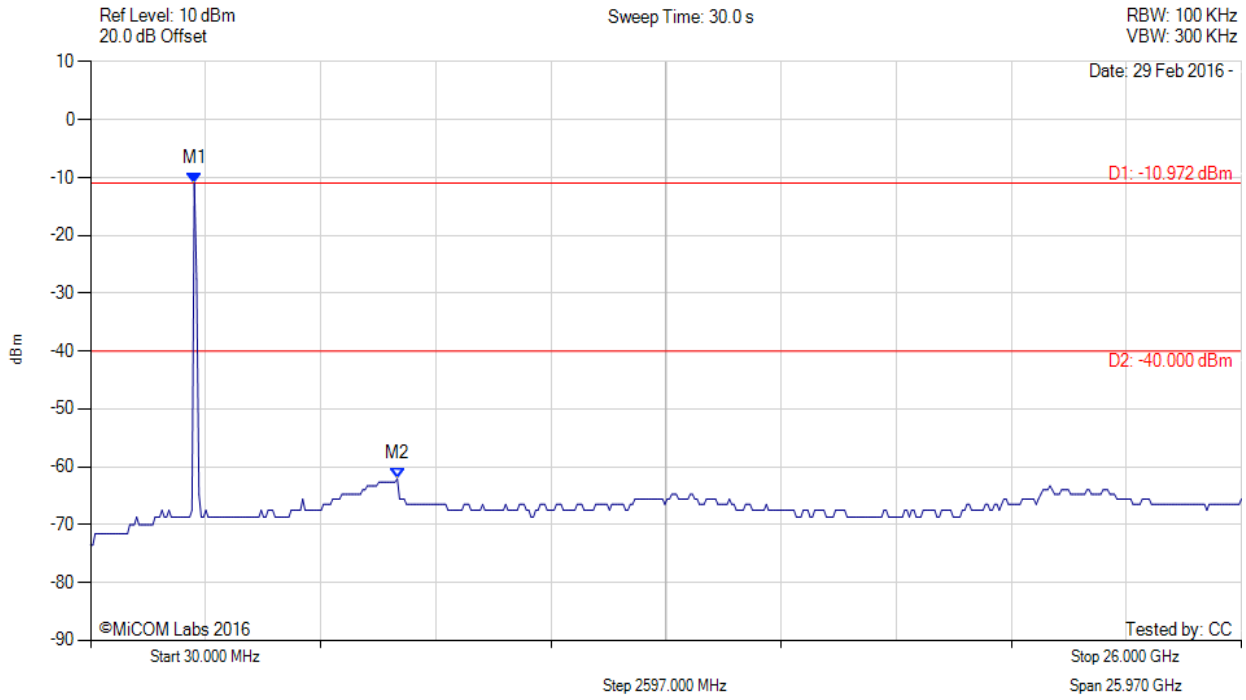
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -10.972 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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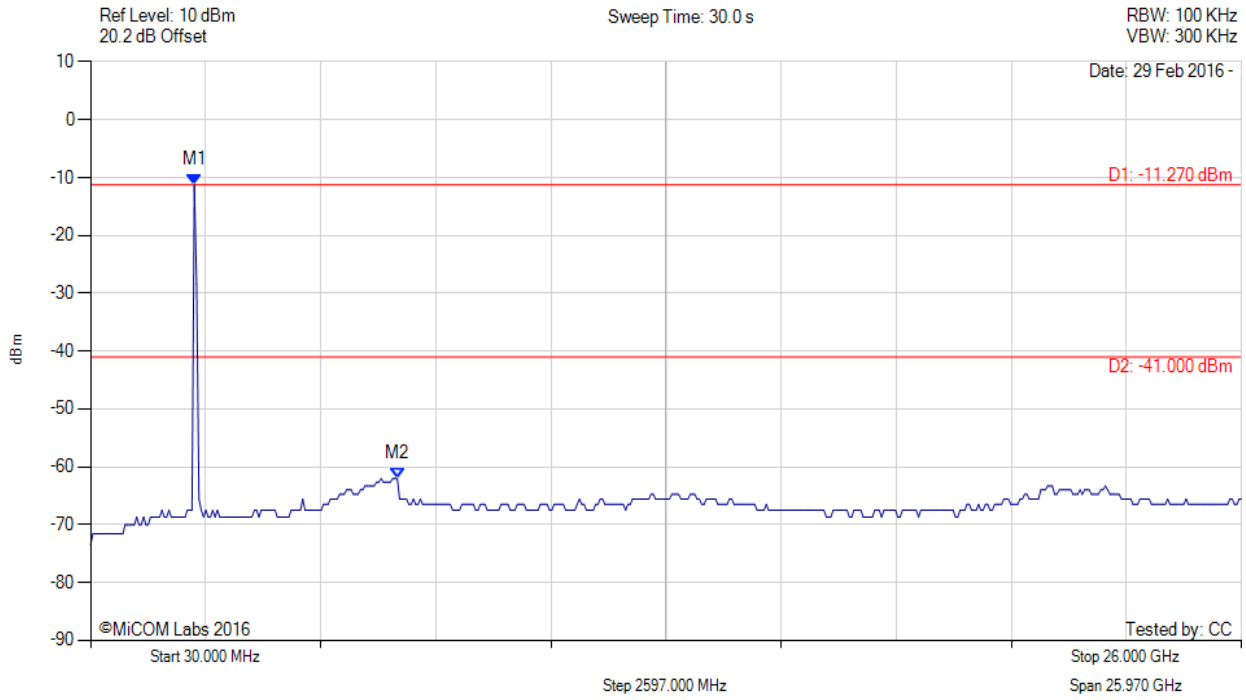
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2371.984 MHz : -11.270 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -41.00 dBm<br>Margin: -21.04 dB |

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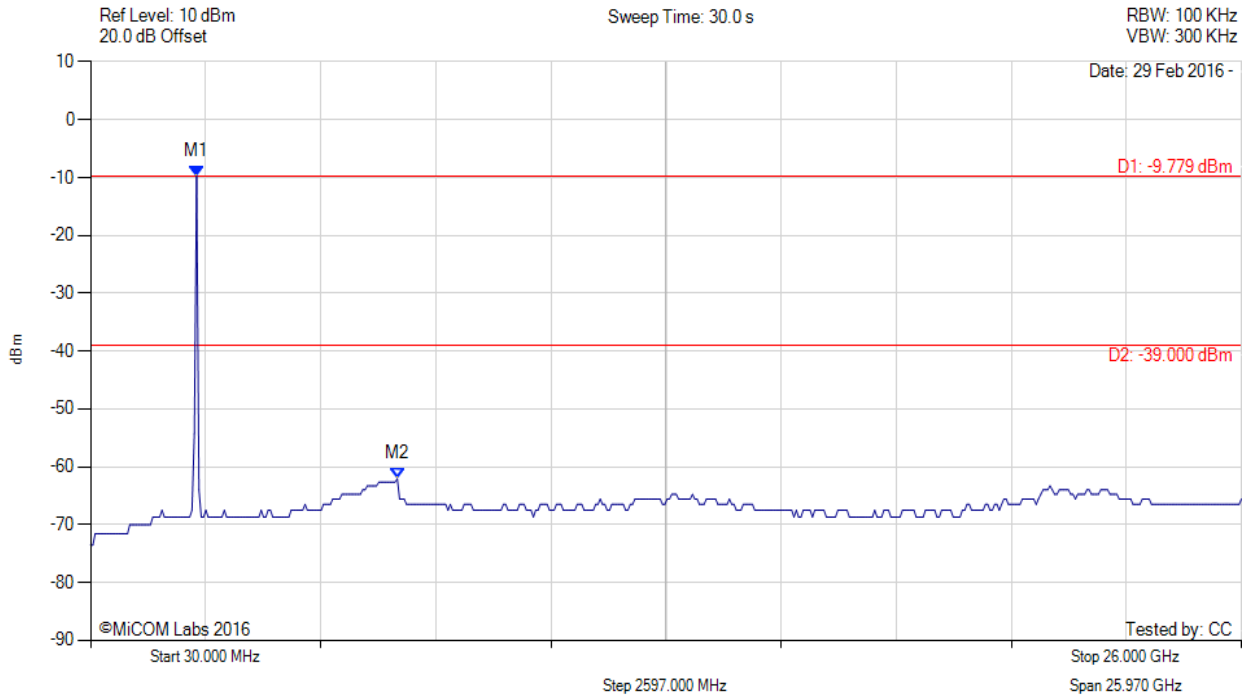
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -9.779 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -39.00 dBm<br>Margin: -23.04 dB |

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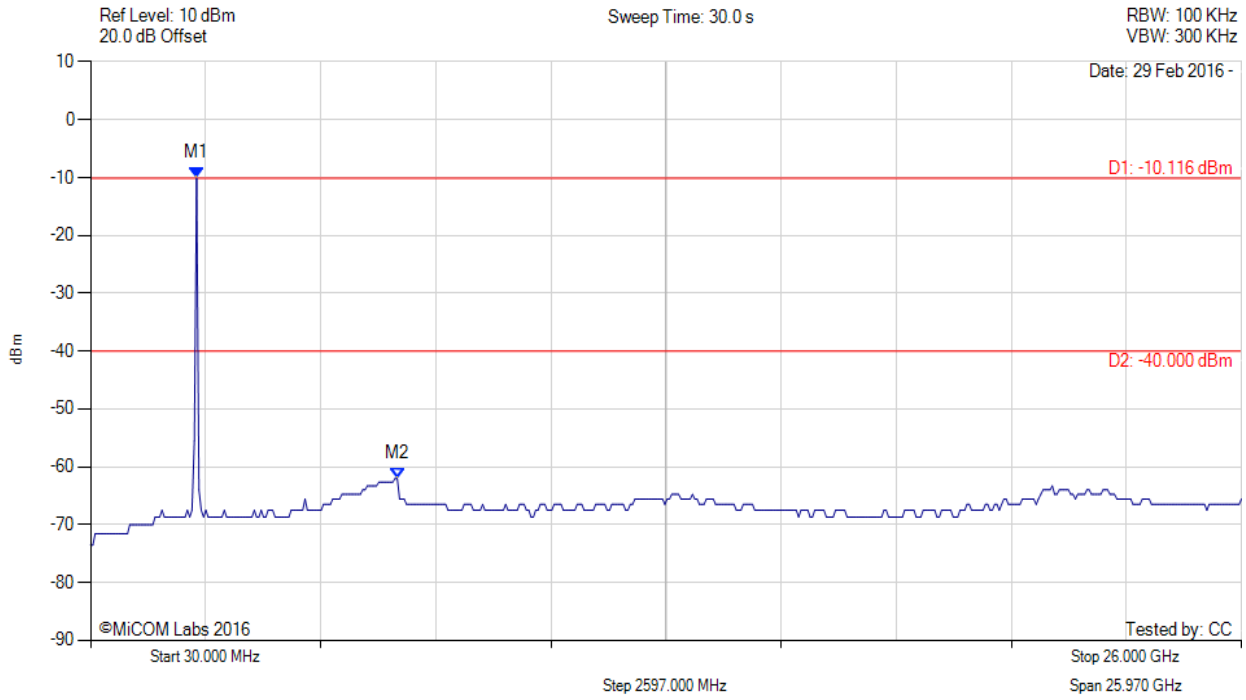
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.116 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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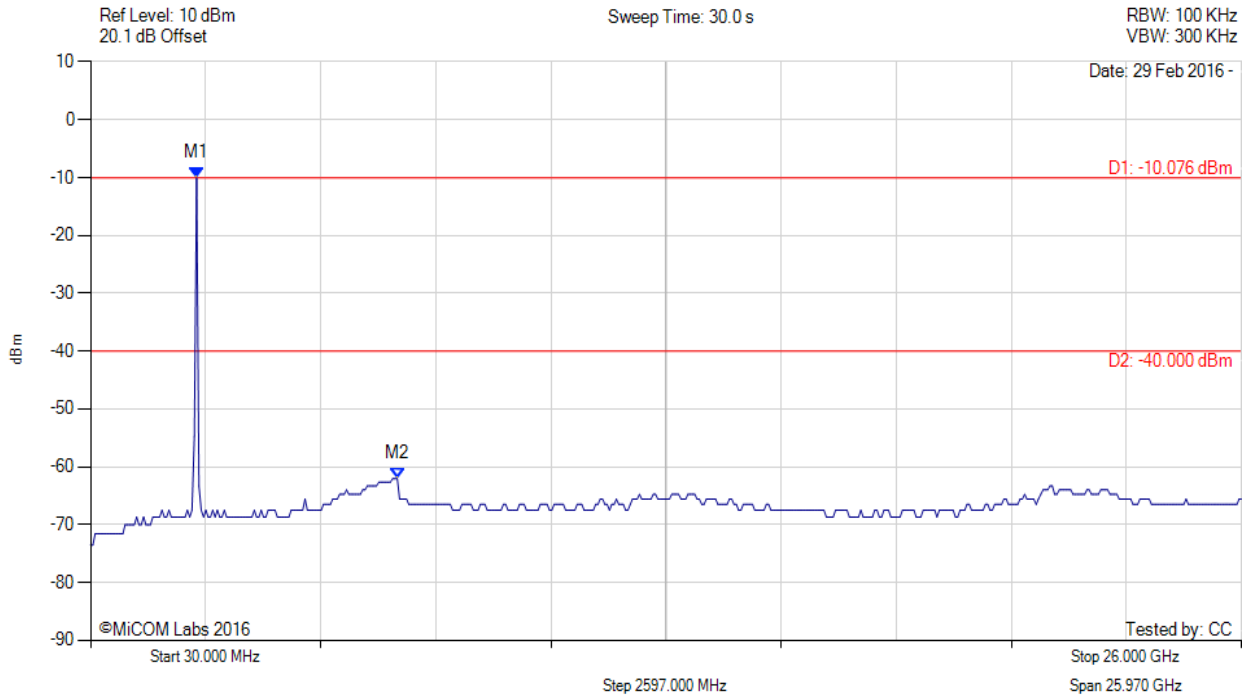
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.076 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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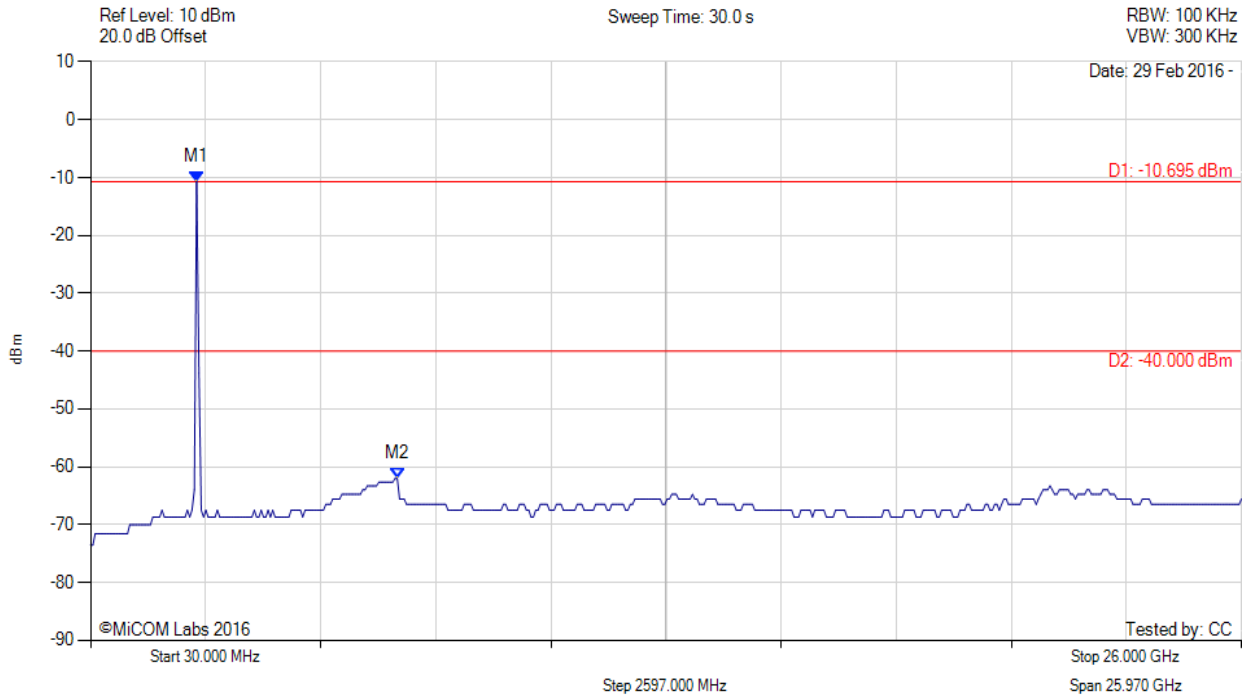
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.695 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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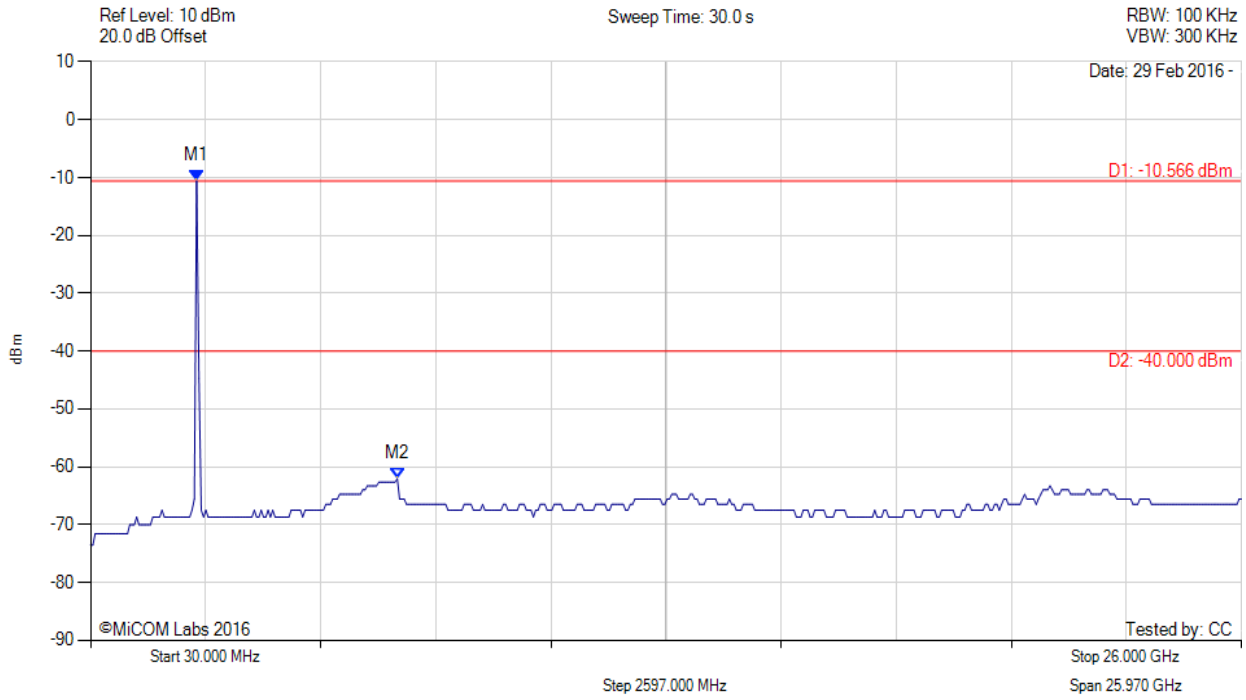
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.566 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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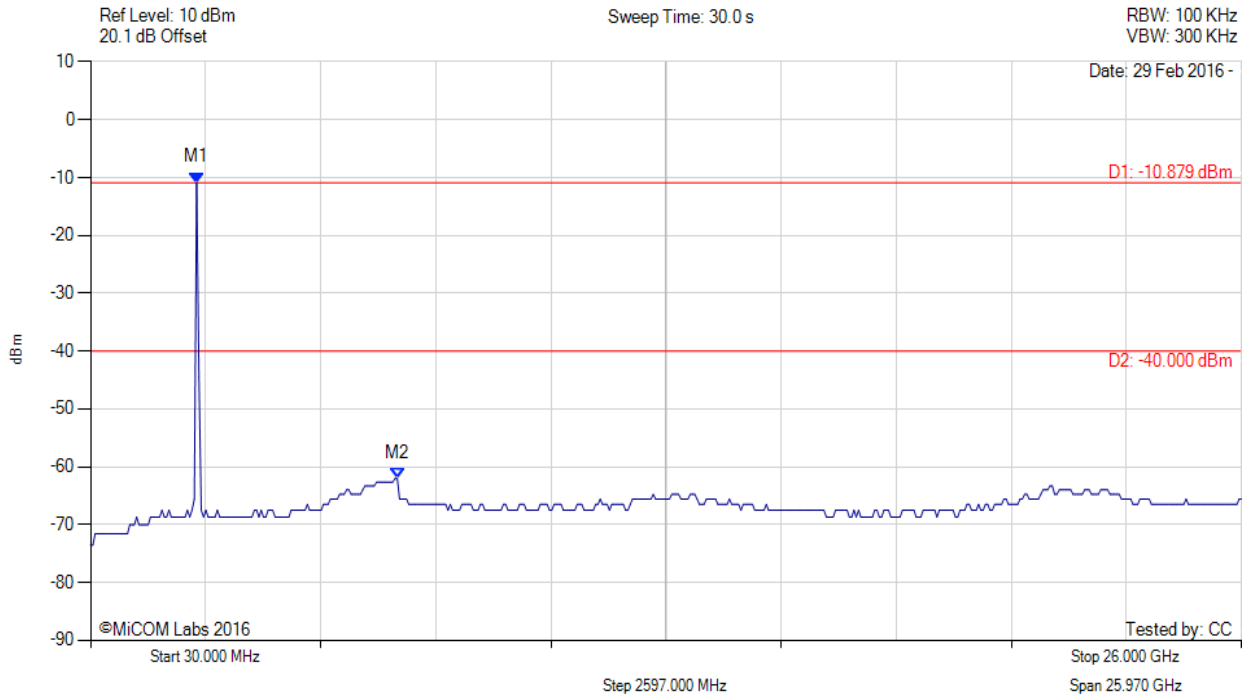
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.879 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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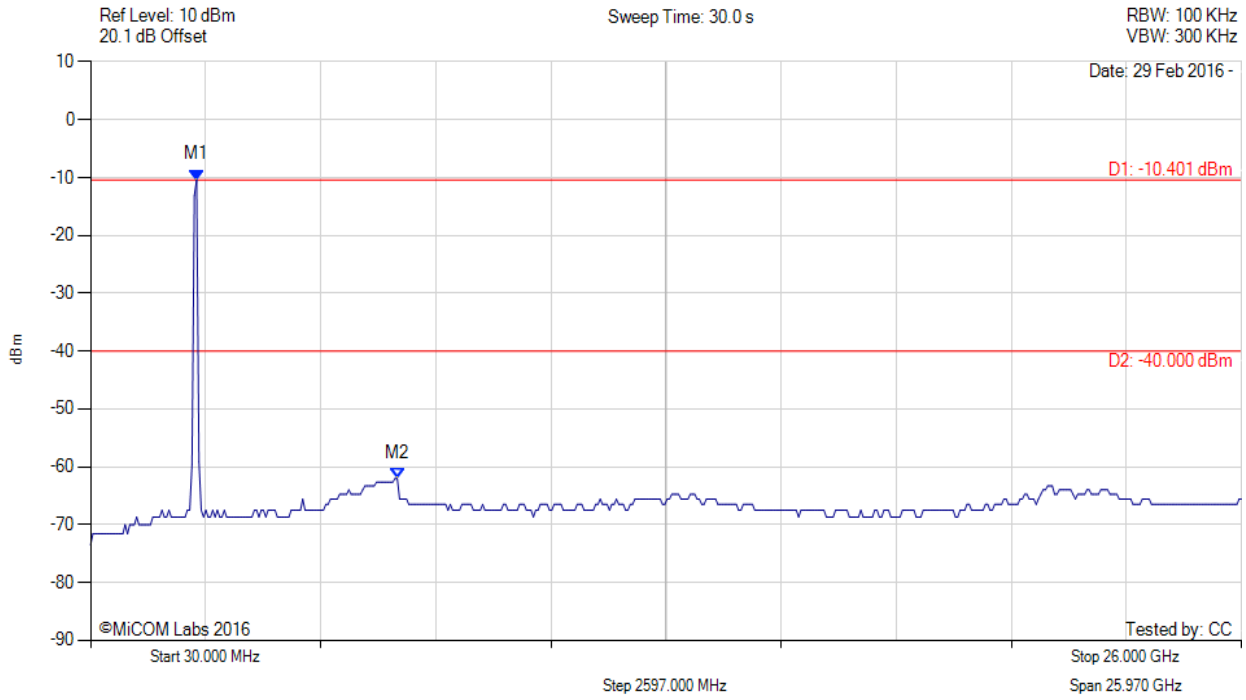
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.401 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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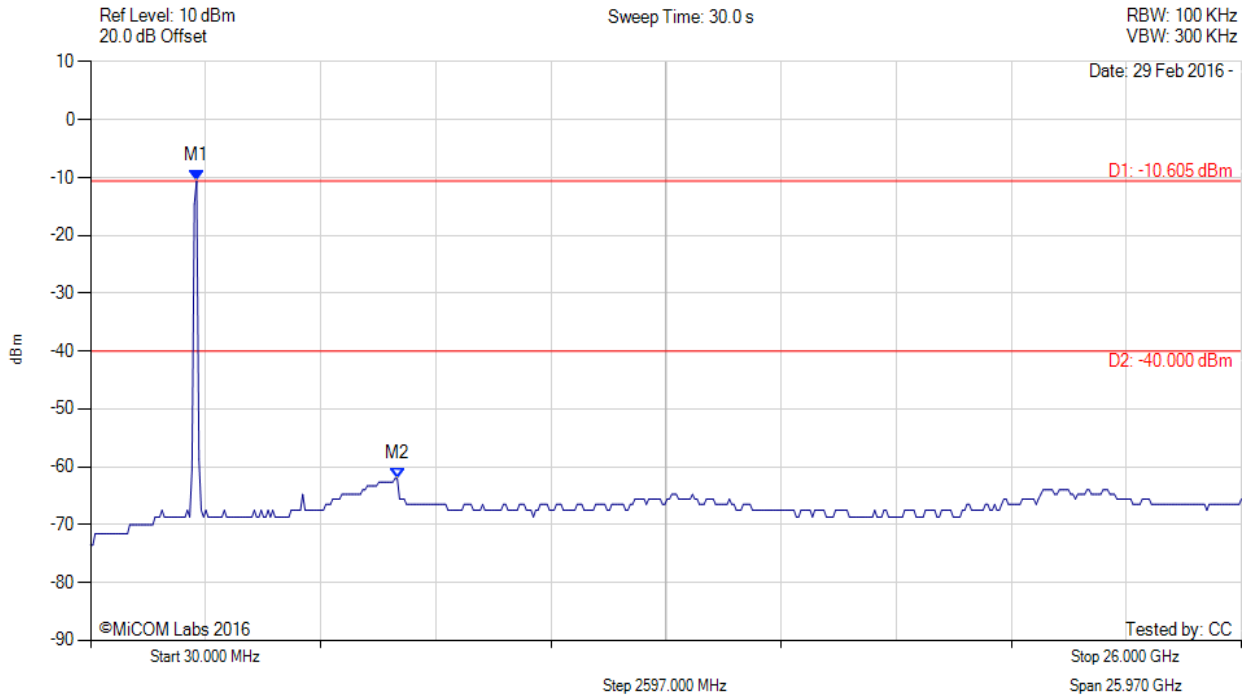
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.605 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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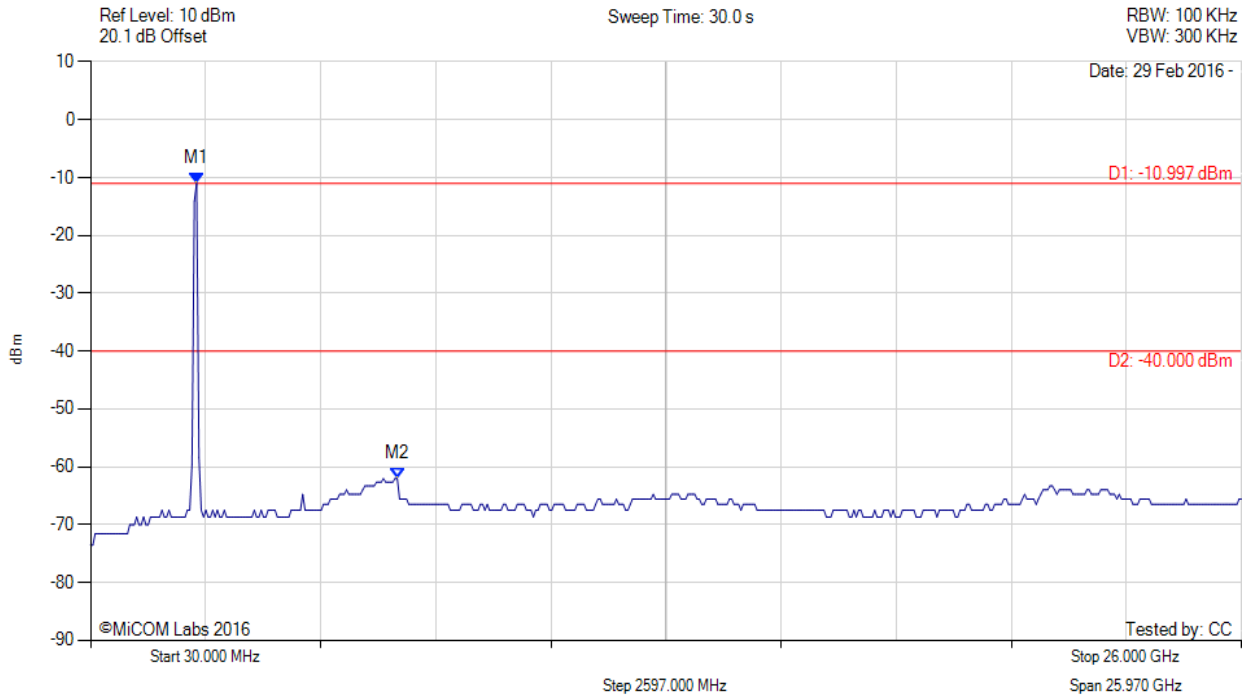
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -10.997 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -40.00 dBm<br>Margin: -22.04 dB |

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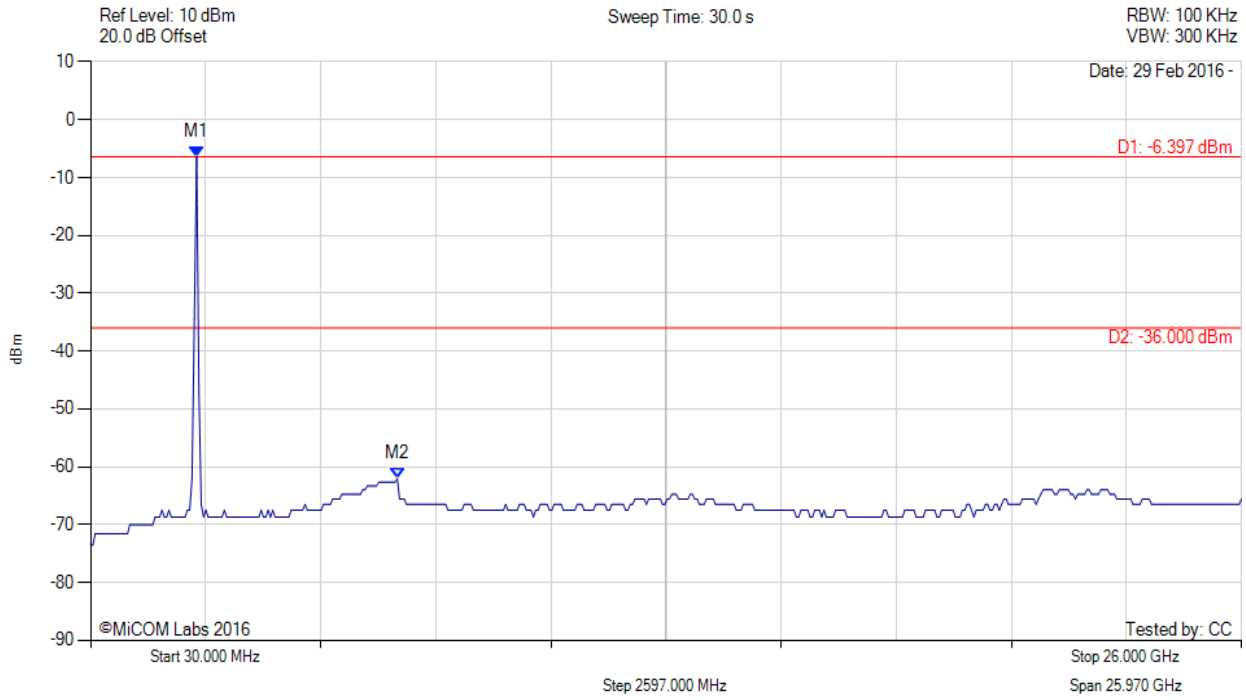
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.397 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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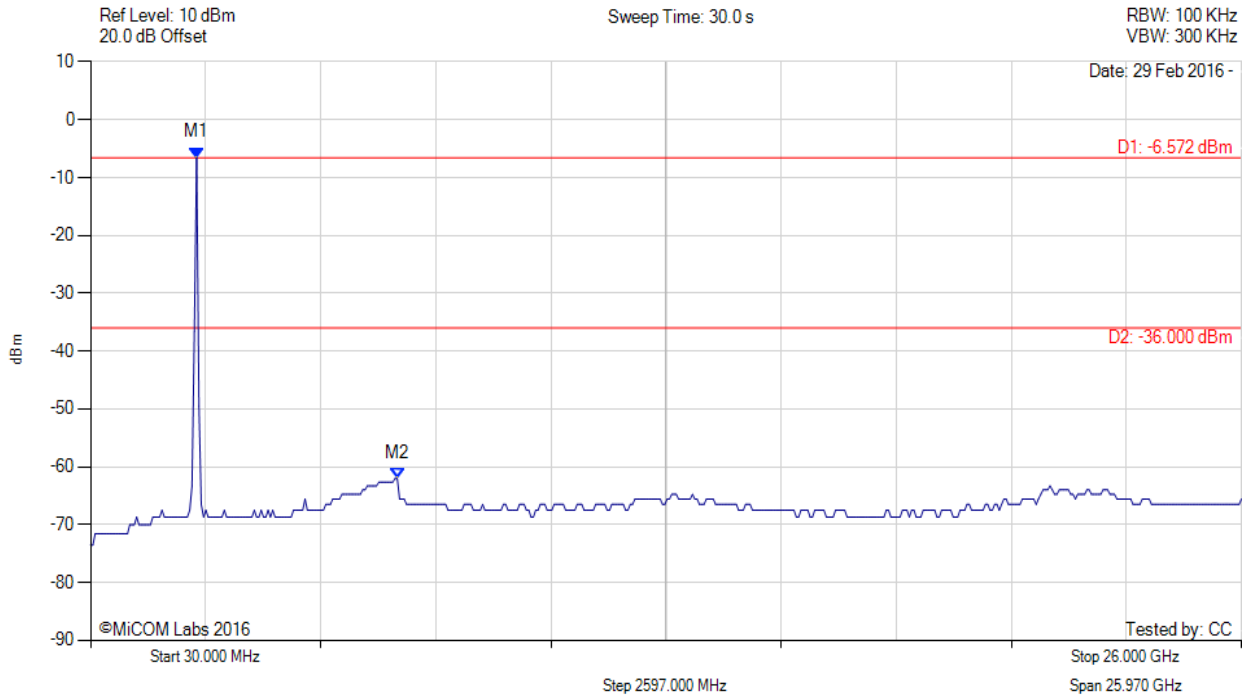
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.572 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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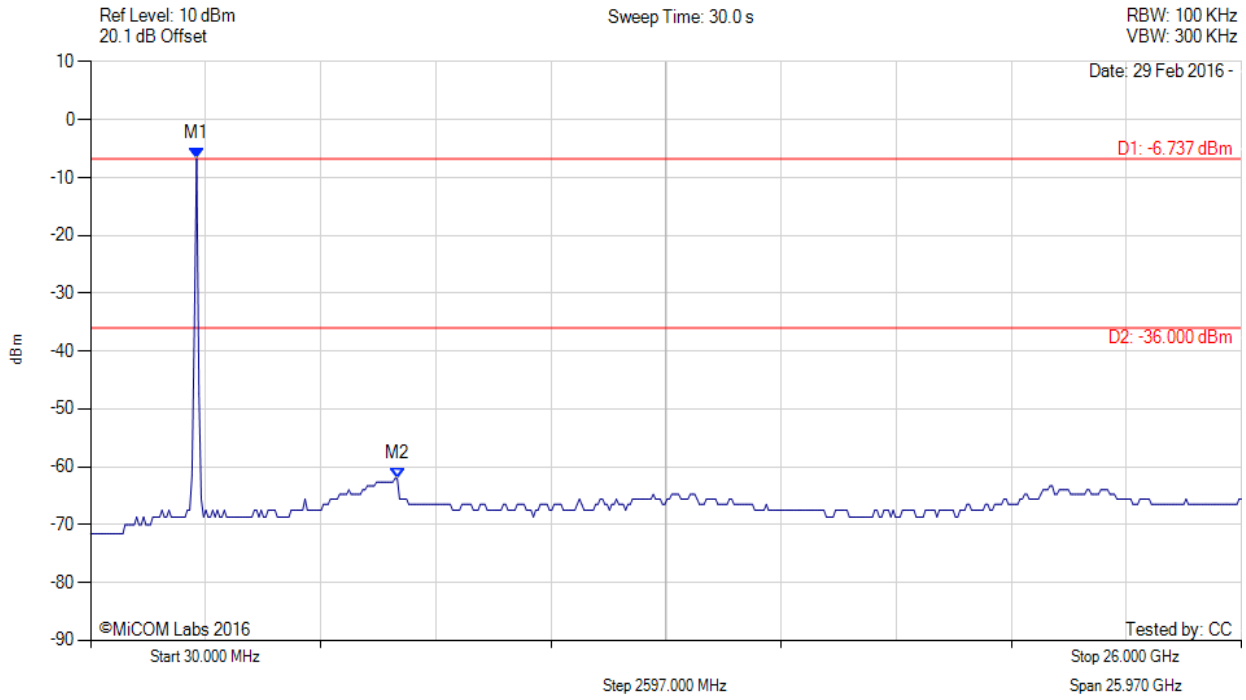
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.737 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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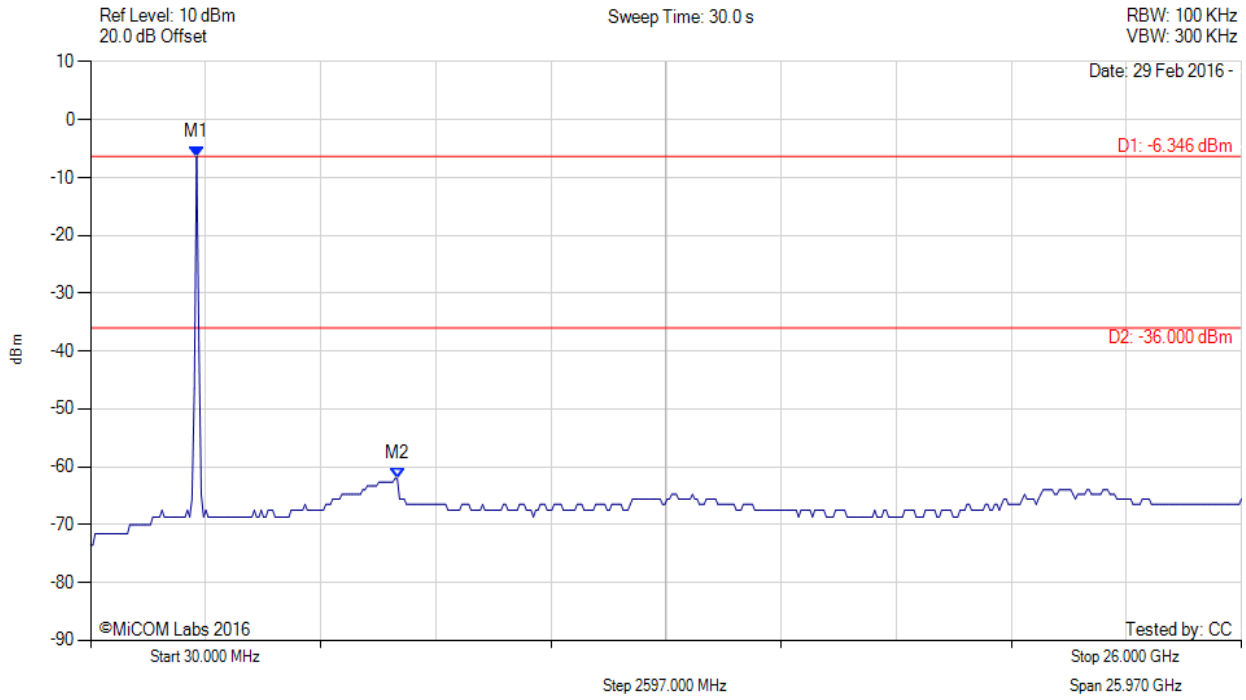
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.346 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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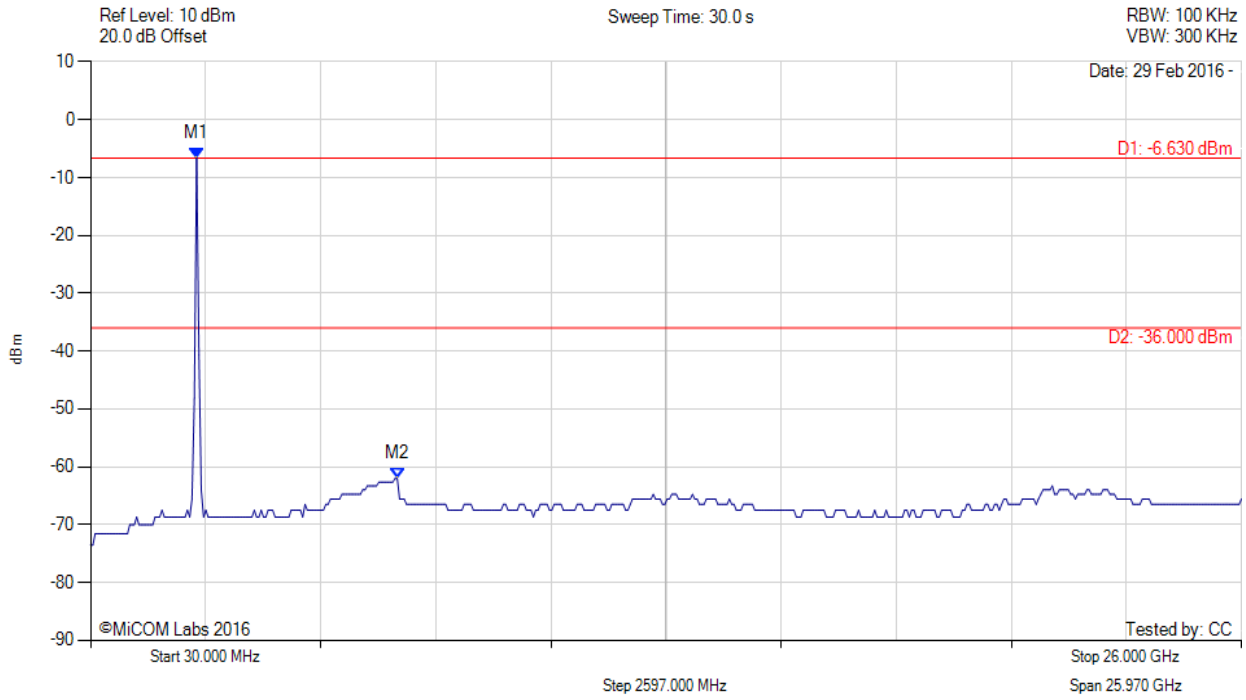
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.630 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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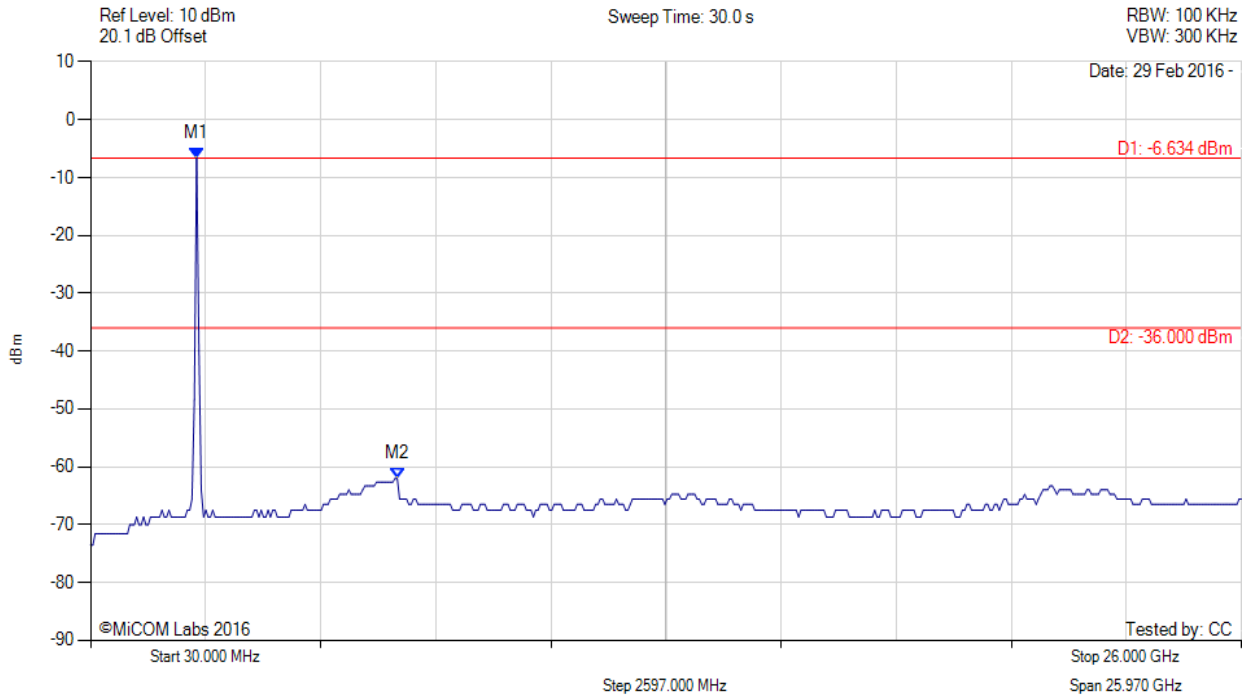
CONDUCTED SPURIOUS EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2424.028 MHz : -6.634 dBm<br>M2 : 6951.864 MHz : -62.044 dBm | Limit: -36.00 dBm<br>Margin: -26.04 dB |

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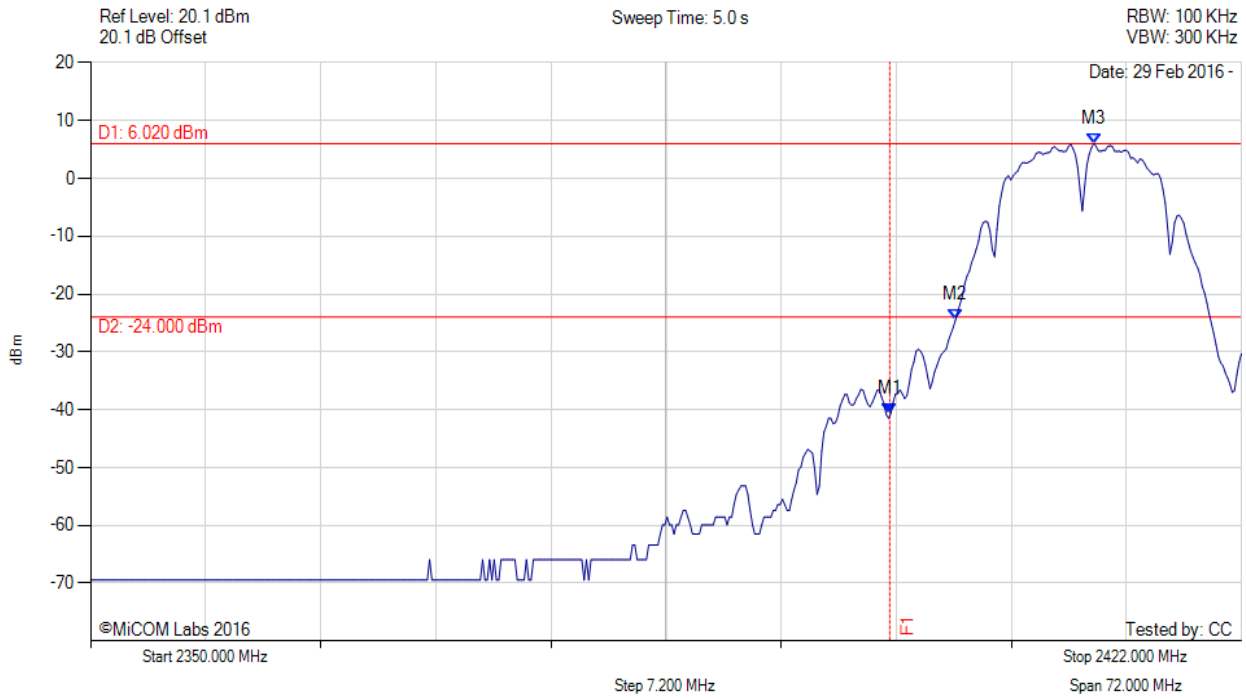
### A.2.2. Conducted Band-Edge Emissions

Conducted Low Band-Edge Emissions

CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -40.658 dBm<br>M2 : 2404.108 MHz : -24.510 dBm<br>M3 : 2412.766 MHz : 6.020 dBm | Channel Frequency: 2412.00 MHz |

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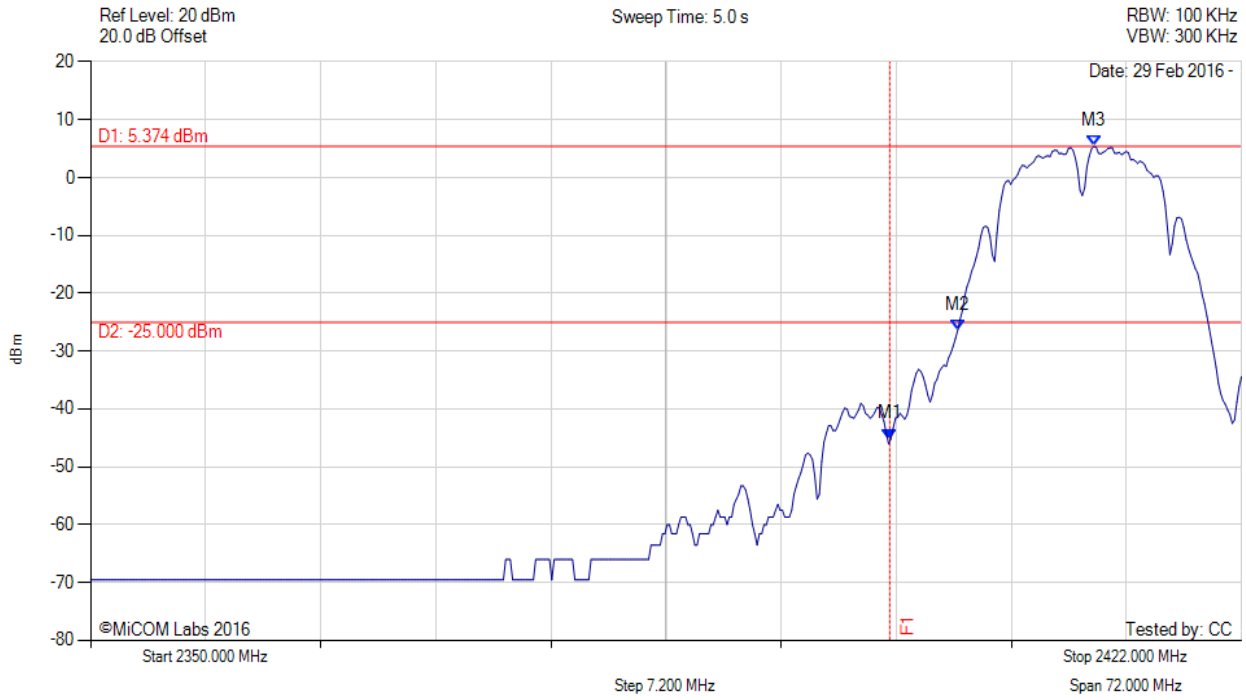
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -45.195 dBm<br>M2 : 2404.253 MHz : -26.377 dBm<br>M3 : 2412.766 MHz : 5.374 dBm | Channel Frequency: 2412.00 MHz |

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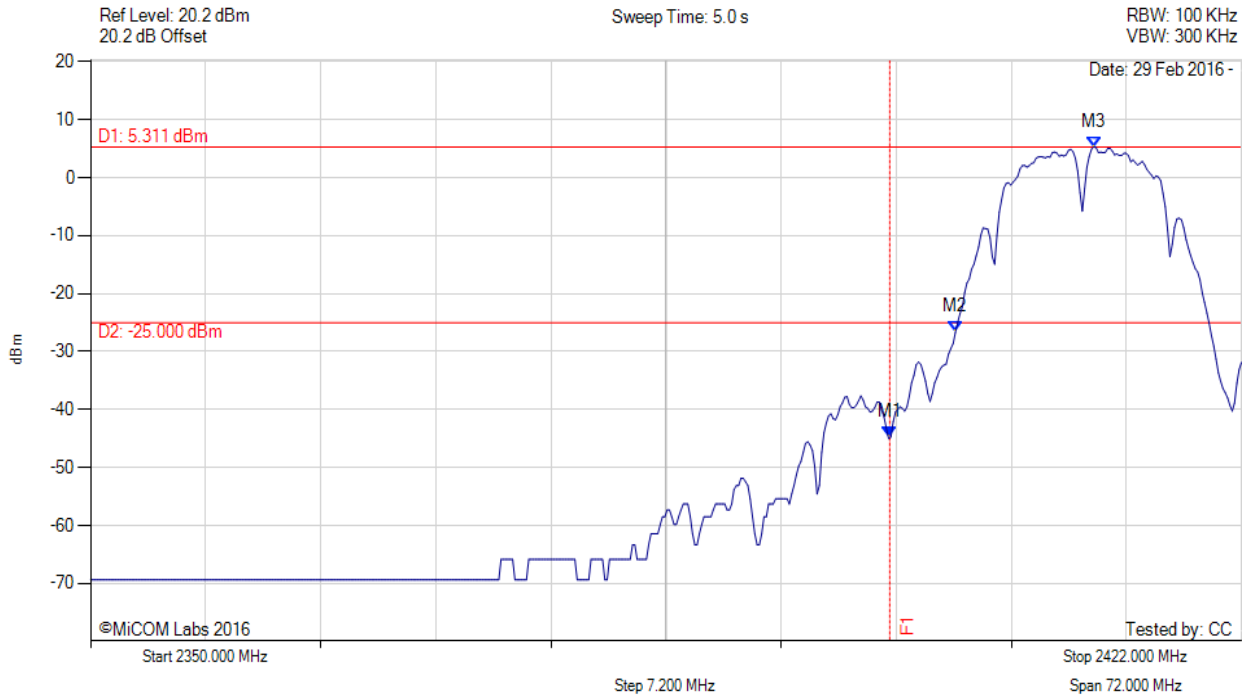
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -44.736 dBm<br>M2 : 2404.108 MHz : -26.642 dBm<br>M3 : 2412.766 MHz : 5.311 dBm | Channel Frequency: 2412.00 MHz |

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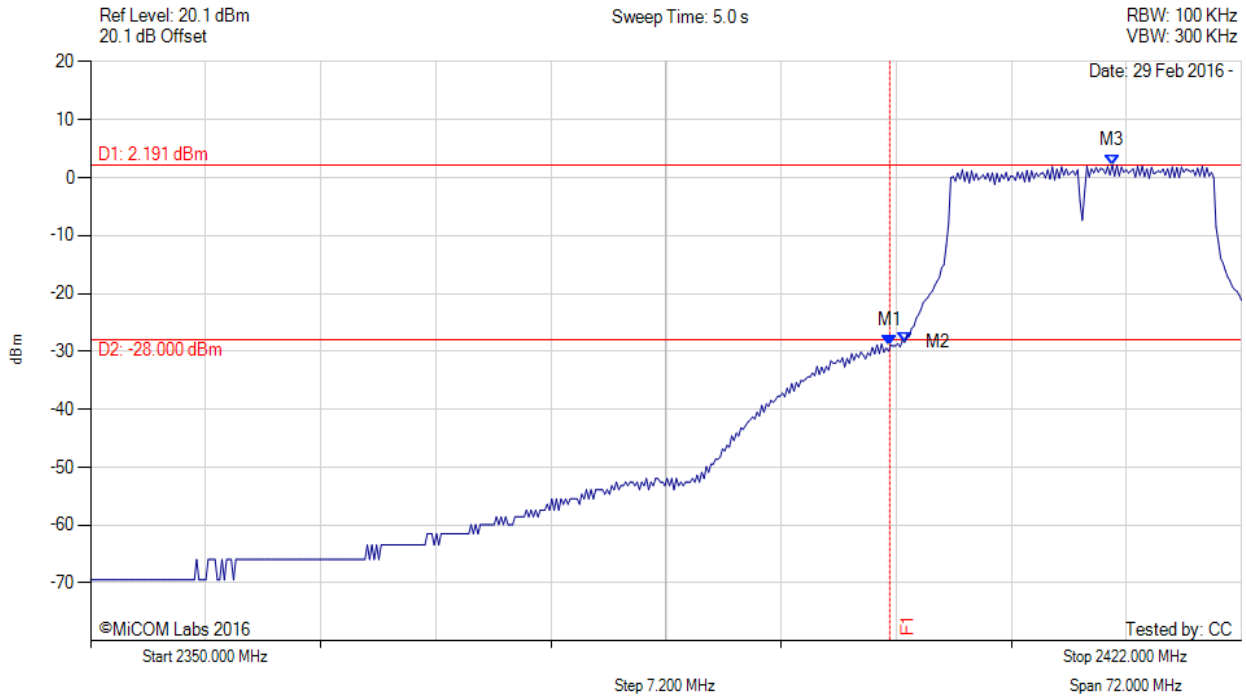
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -28.898 dBm<br>M2 : 2400.934 MHz : -28.422 dBm<br>M3 : 2413.920 MHz : 2.191 dBm | Channel Frequency: 2412.00 MHz |

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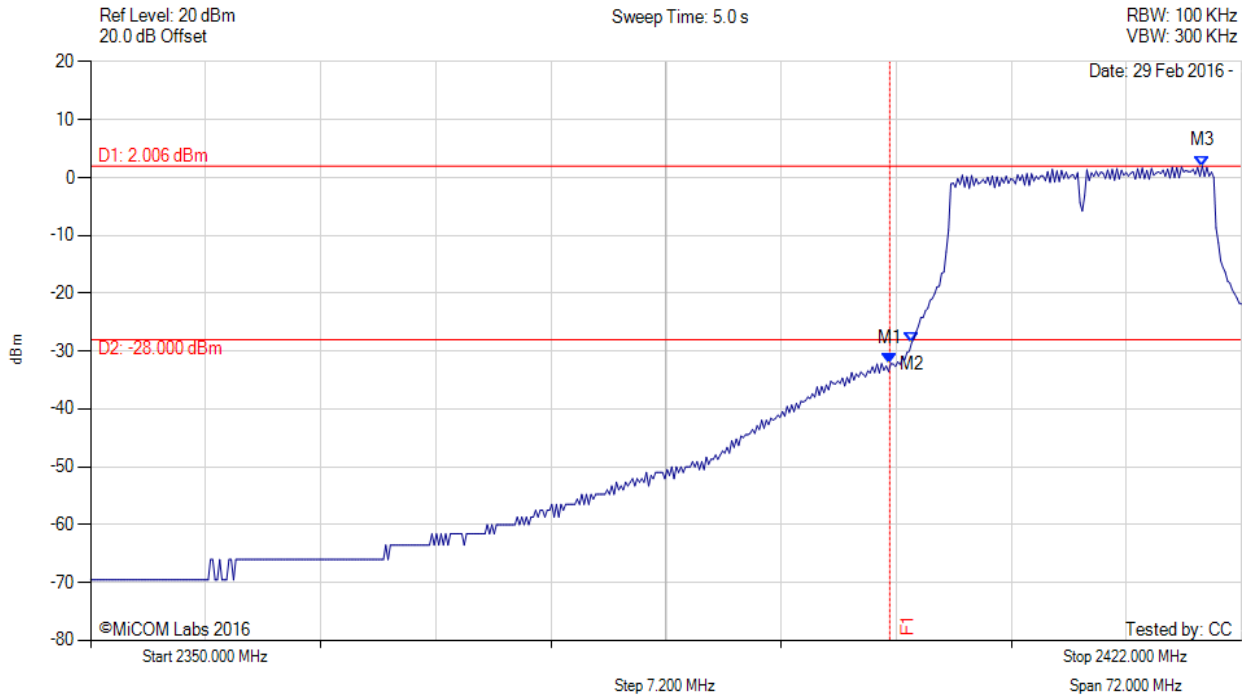
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -32.160 dBm<br>M2 : 2401.367 MHz : -28.560 dBm<br>M3 : 2419.547 MHz : 2.006 dBm | Channel Frequency: 2412.00 MHz |

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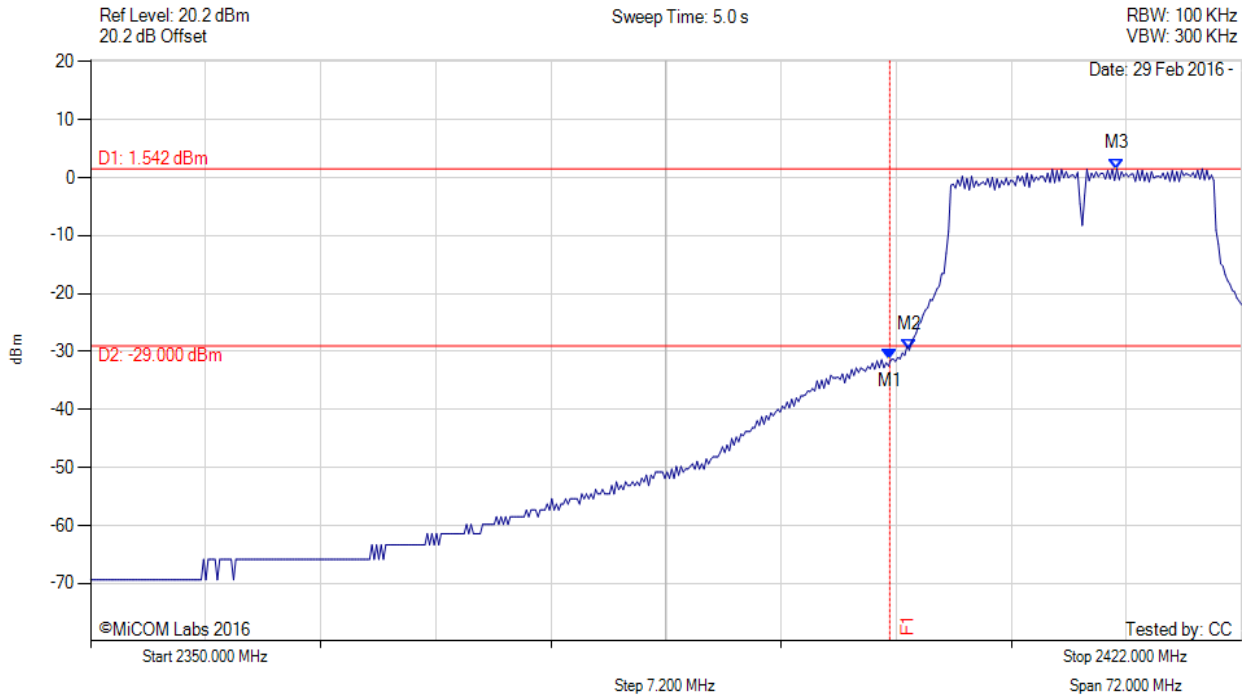
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -31.392 dBm<br>M2 : 2401.222 MHz : -29.745 dBm<br>M3 : 2414.208 MHz : 1.542 dBm | Channel Frequency: 2412.00 MHz |

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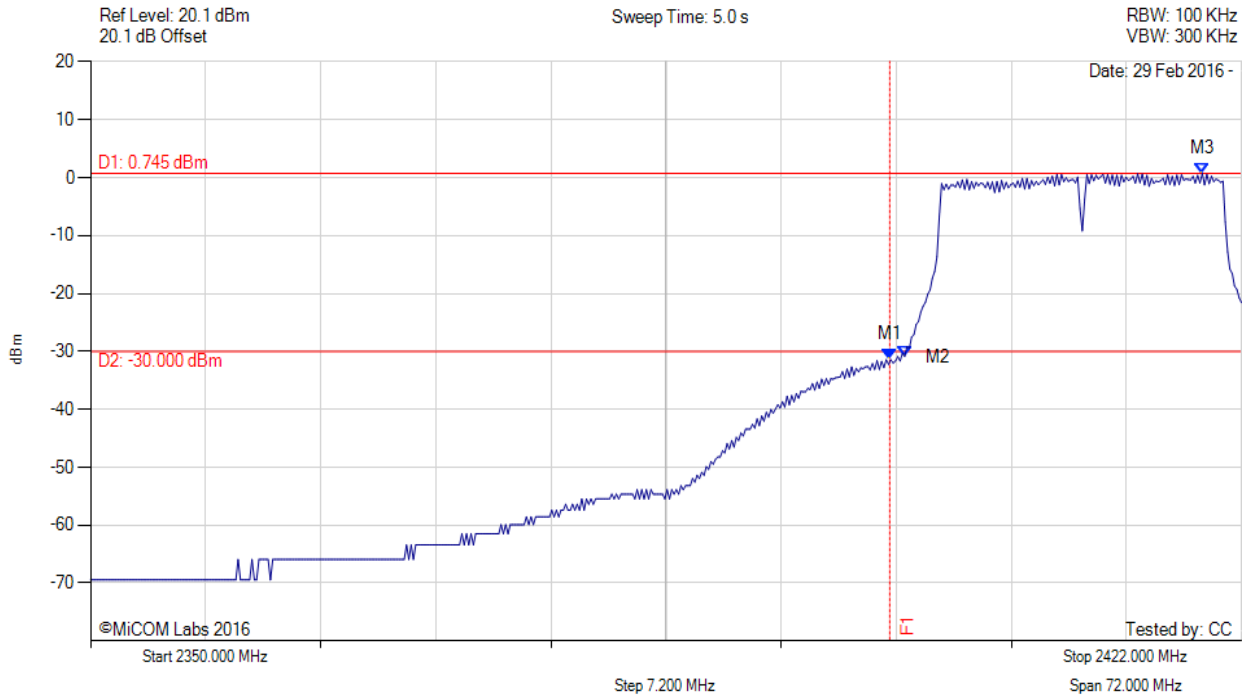
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -31.437 dBm<br>M2 : 2400.934 MHz : -30.856 dBm<br>M3 : 2419.547 MHz : 0.745 dBm | Channel Frequency: 2412.00 MHz |

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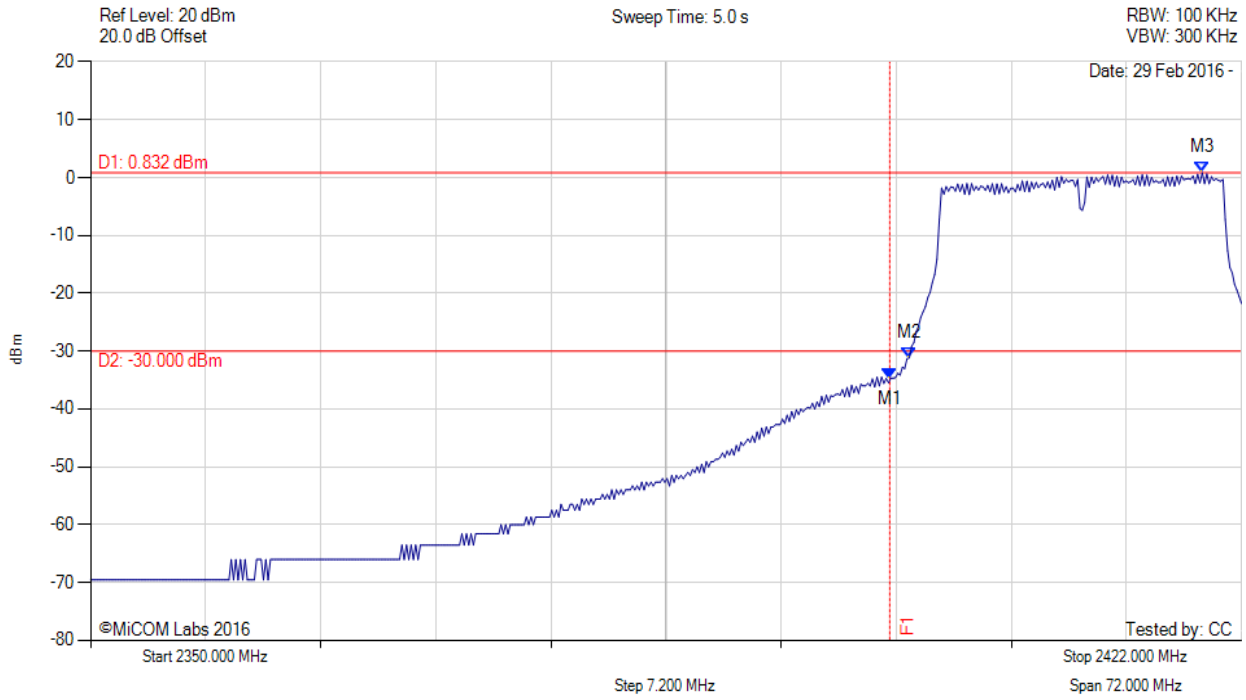
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -34.659 dBm<br>M2 : 2401.222 MHz : -31.163 dBm<br>M3 : 2419.547 MHz : 0.832 dBm | Channel Frequency: 2412.00 MHz |

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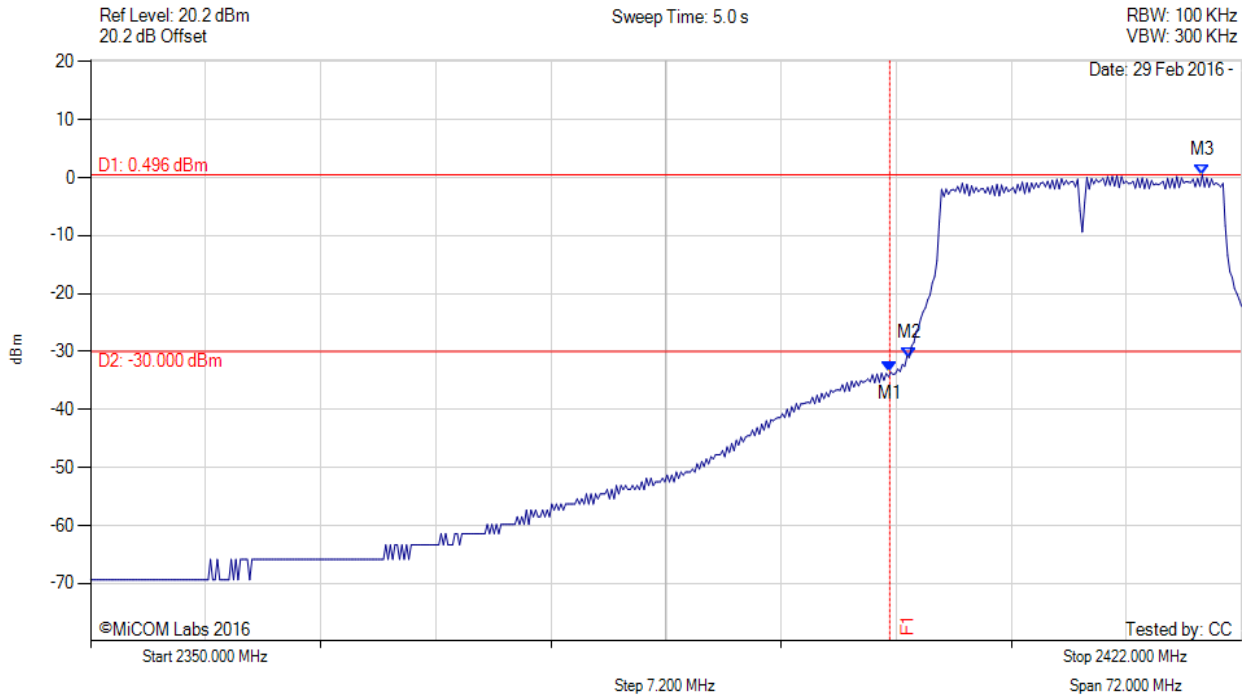
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -33.567 dBm<br>M2 : 2401.222 MHz : -31.016 dBm<br>M3 : 2419.547 MHz : 0.496 dBm | Channel Frequency: 2412.00 MHz |

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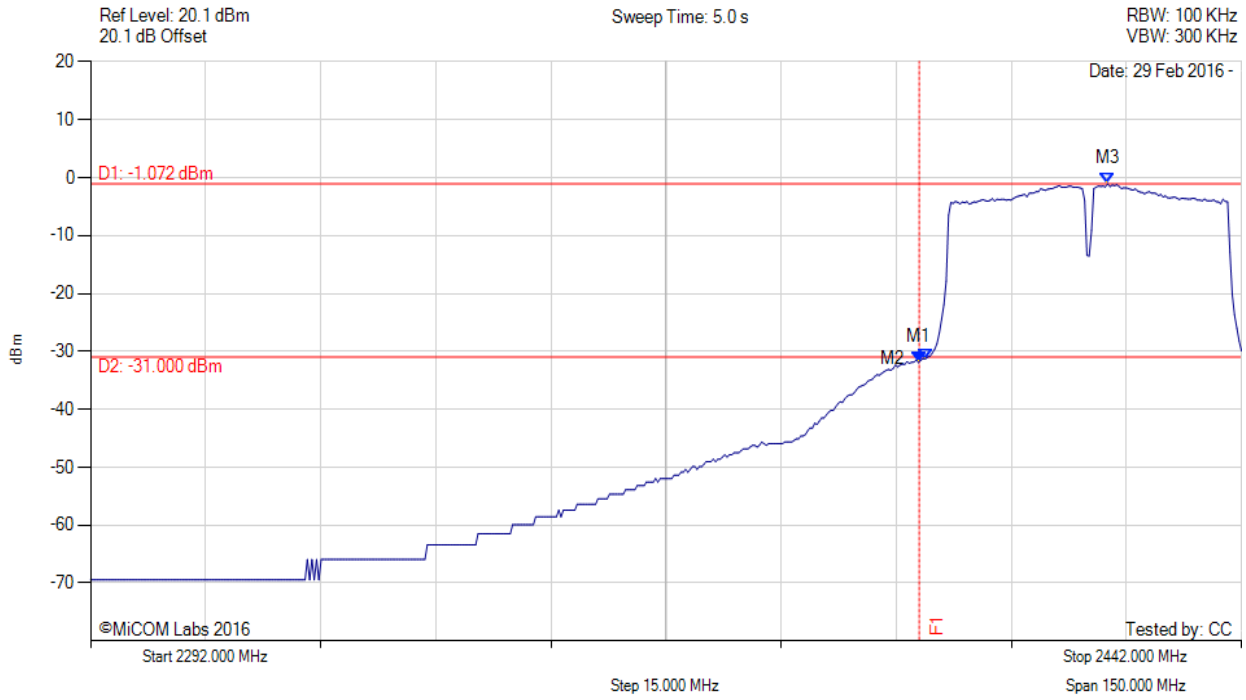
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -31.944 dBm<br>M2 : 2400.818 MHz : -31.275 dBm<br>M3 : 2424.565 MHz : -1.072 dBm | Channel Frequency: 2422.00 MHz |

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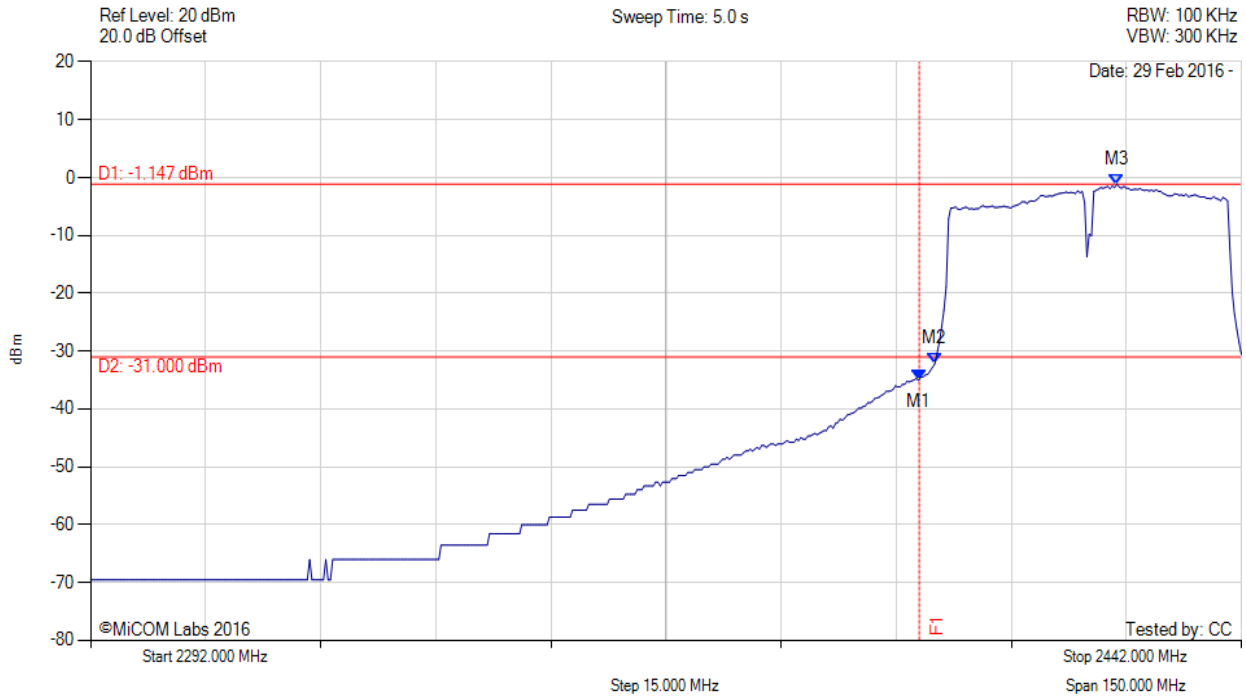
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -35.059 dBm<br>M2 : 2402.020 MHz : -32.219 dBm<br>M3 : 2425.768 MHz : -1.147 dBm | Channel Frequency: 2422.00 MHz |

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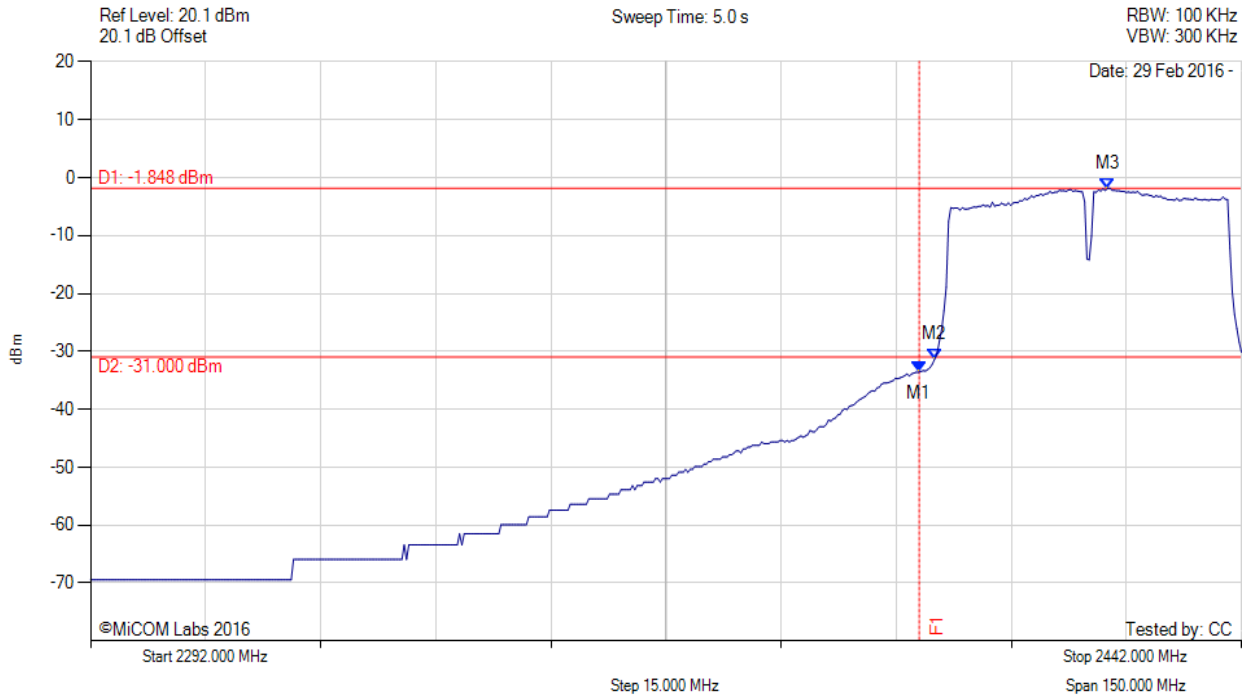
CONDUCTED LOW BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2400.000 MHz : -33.597 dBm<br>M2 : 2402.020 MHz : -31.329 dBm<br>M3 : 2424.565 MHz : -1.848 dBm | Channel Frequency: 2422.00 MHz |

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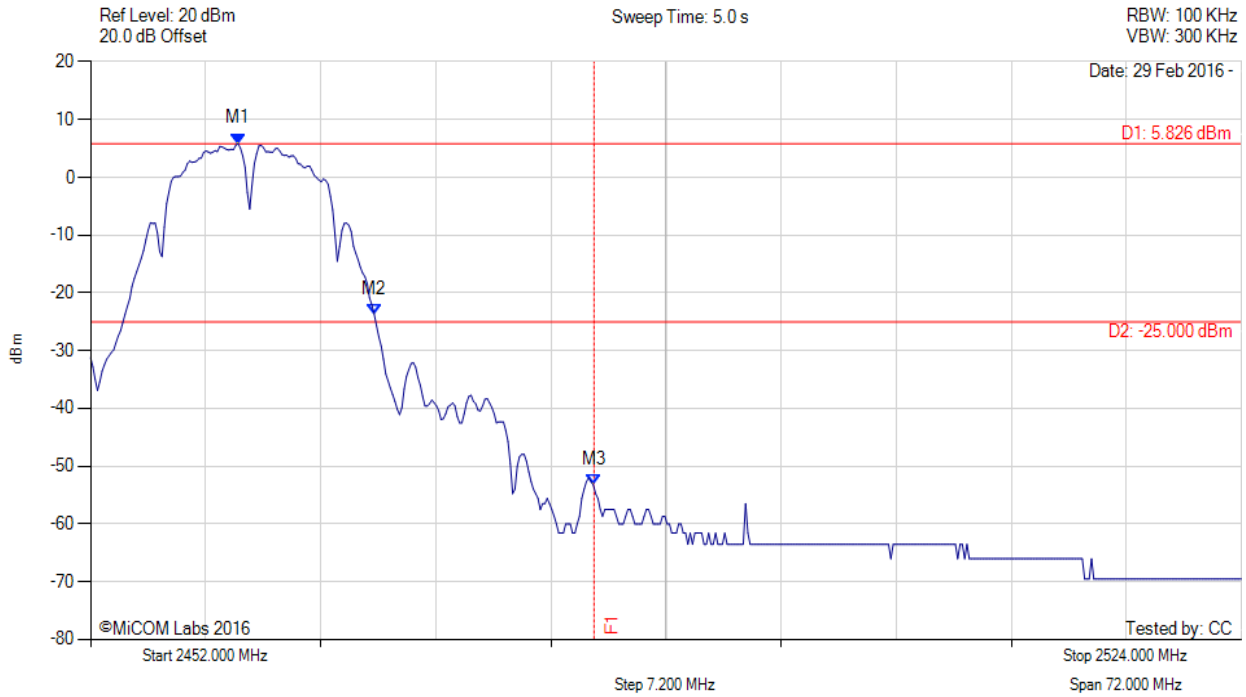
## Conducted High Band-Edge Emissions

CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2461.234 MHz : 5.826 dBm<br>M2 : 2469.747 MHz : -23.700 dBm<br>M3 : 2483.500 MHz : -53.286 dBm | Channel Frequency: 2462.00 MHz |

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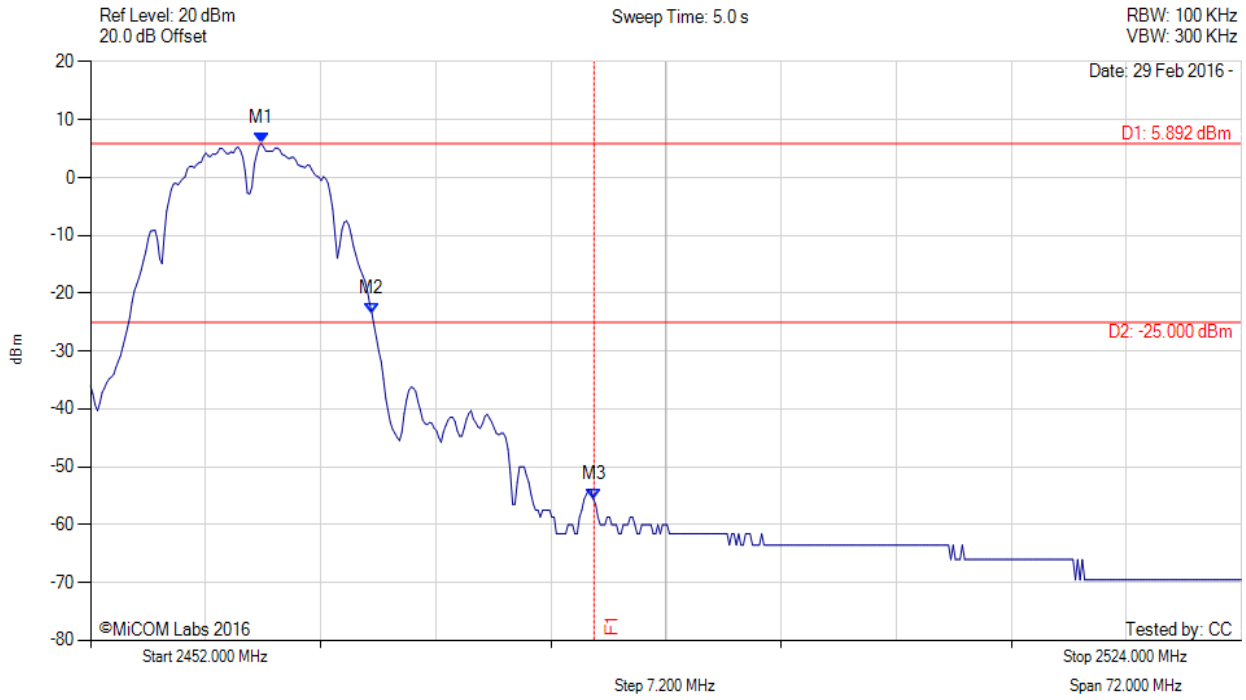
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2462.677 MHz : 5.892 dBm<br>M2 : 2469.603 MHz : -23.524 dBm<br>M3 : 2483.500 MHz : -55.565 dBm | Channel Frequency: 2462.00 MHz |

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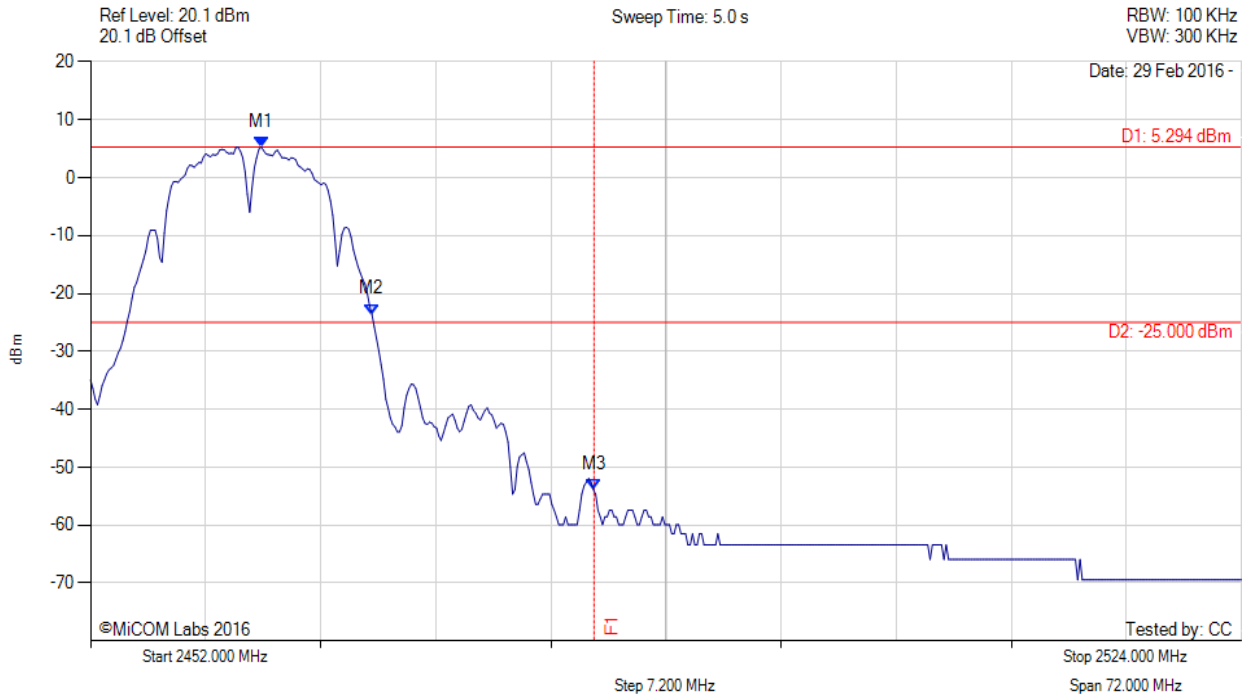
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2462.677 MHz : 5.294 dBm<br>M2 : 2469.603 MHz : -23.600 dBm<br>M3 : 2483.500 MHz : -53.882 dBm | Channel Frequency: 2462.00 MHz |

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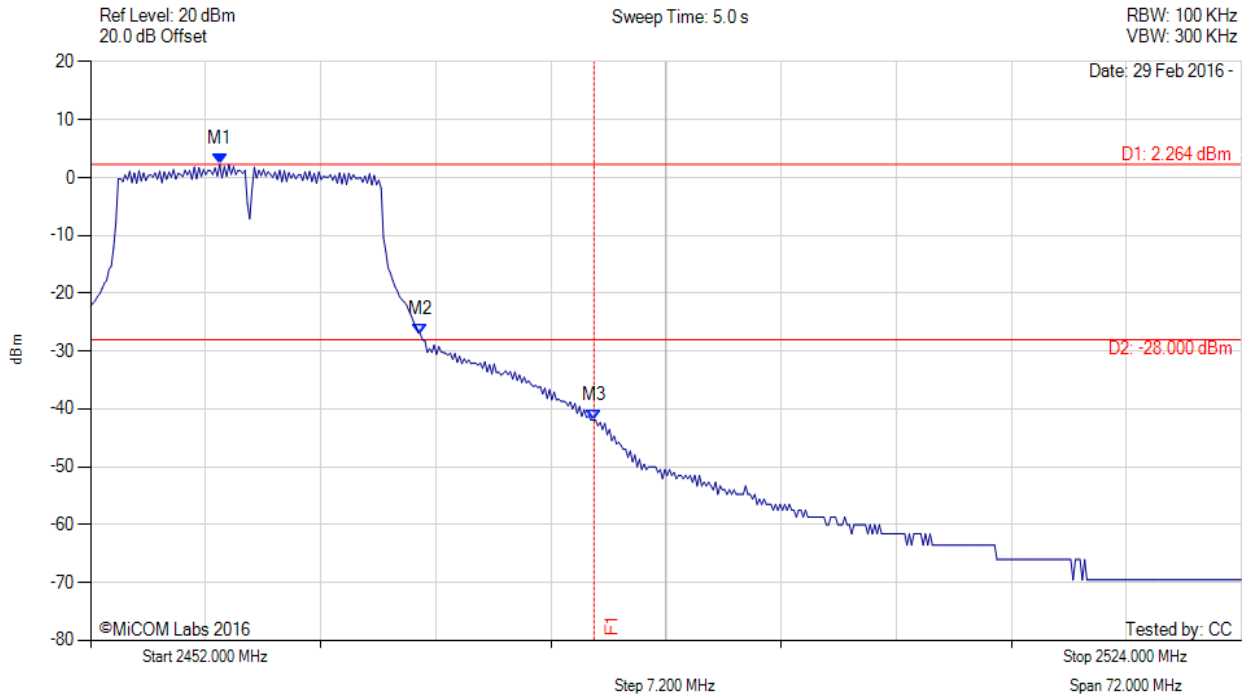
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.080 MHz : 2.264 dBm<br>M2 : 2472.633 MHz : -27.035 dBm<br>M3 : 2483.500 MHz : -41.941 dBm | Channel Frequency: 2462.00 MHz |

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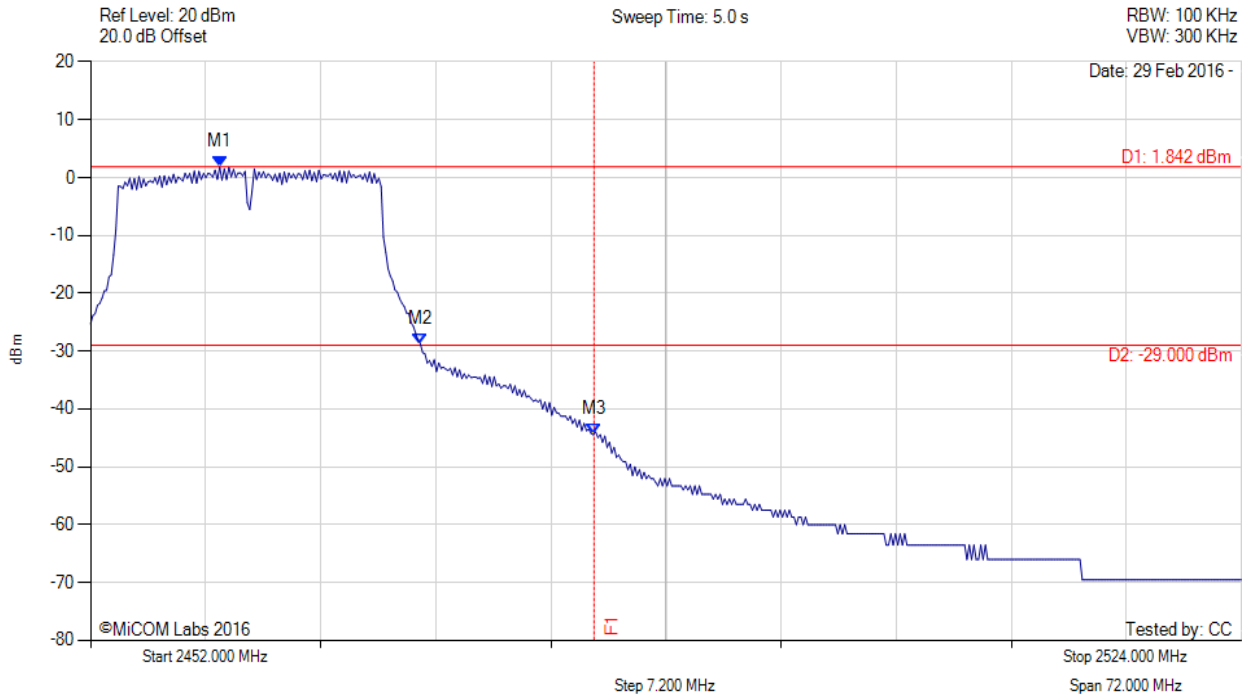
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.080 MHz : 1.842 dBm<br>M2 : 2472.633 MHz : -28.717 dBm<br>M3 : 2483.500 MHz : -44.439 dBm | Channel Frequency: 2462.00 MHz |

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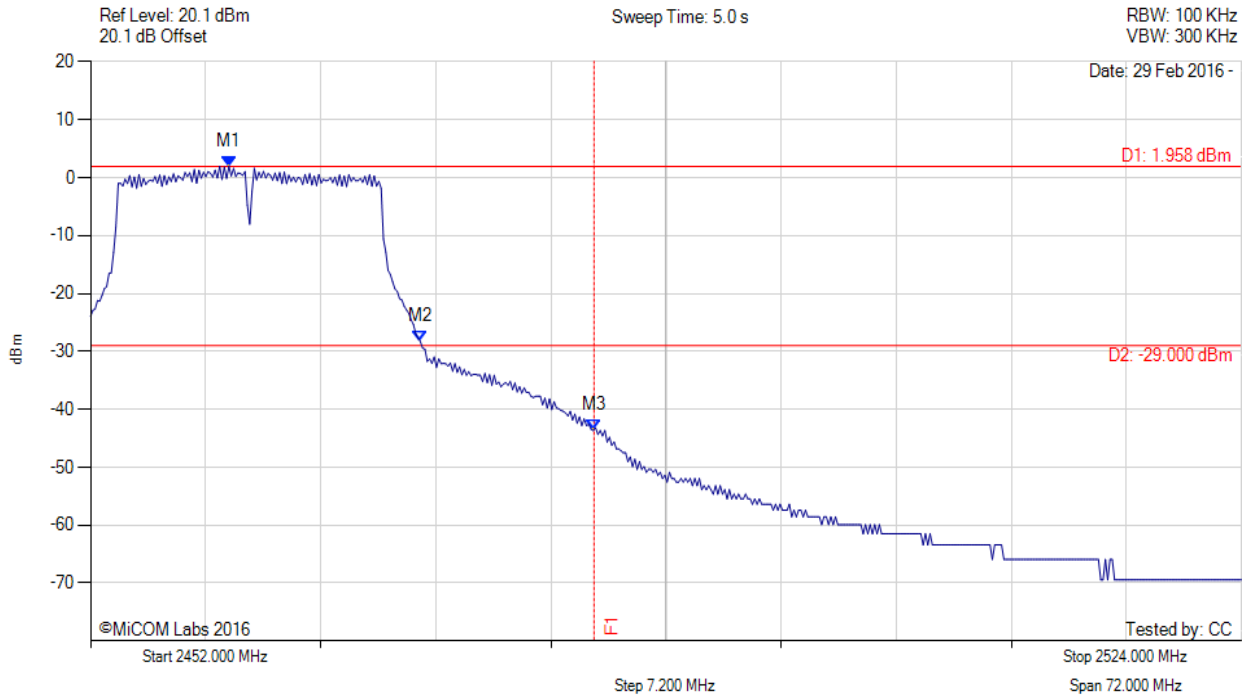
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.657 MHz : 1.958 dBm<br>M2 : 2472.633 MHz : -28.307 dBm<br>M3 : 2483.500 MHz : -43.644 dBm | Channel Frequency: 2462.00 MHz |

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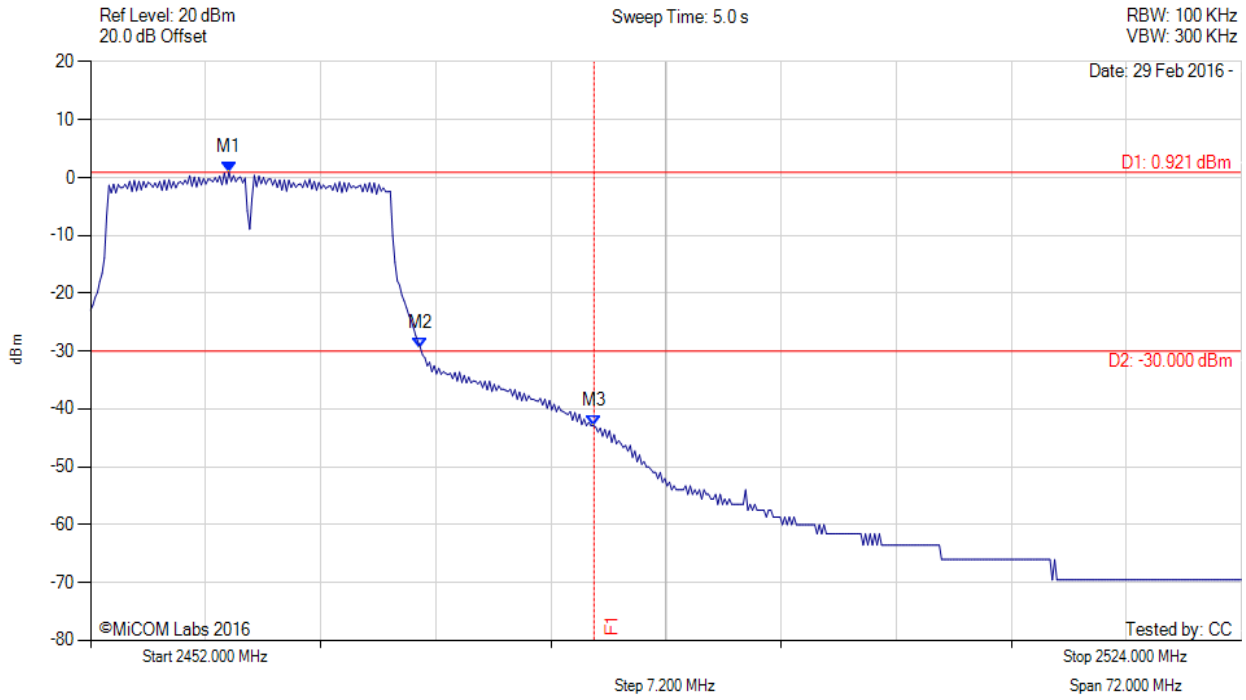
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.657 MHz : 0.921 dBm<br>M2 : 2472.633 MHz : -29.415 dBm<br>M3 : 2483.500 MHz : -42.896 dBm | Channel Frequency: 2462.00 MHz |

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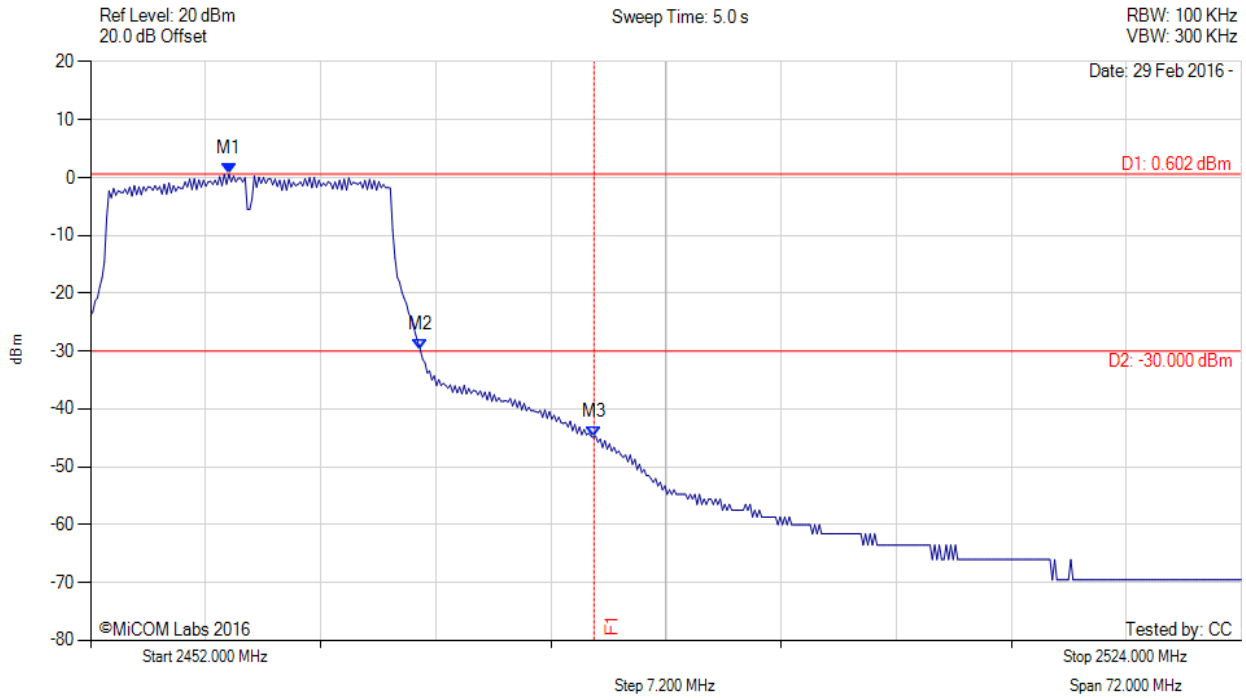
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.657 MHz : 0.602 dBm<br>M2 : 2472.633 MHz : -29.765 dBm<br>M3 : 2483.500 MHz : -44.936 dBm | Channel Frequency: 2462.00 MHz |

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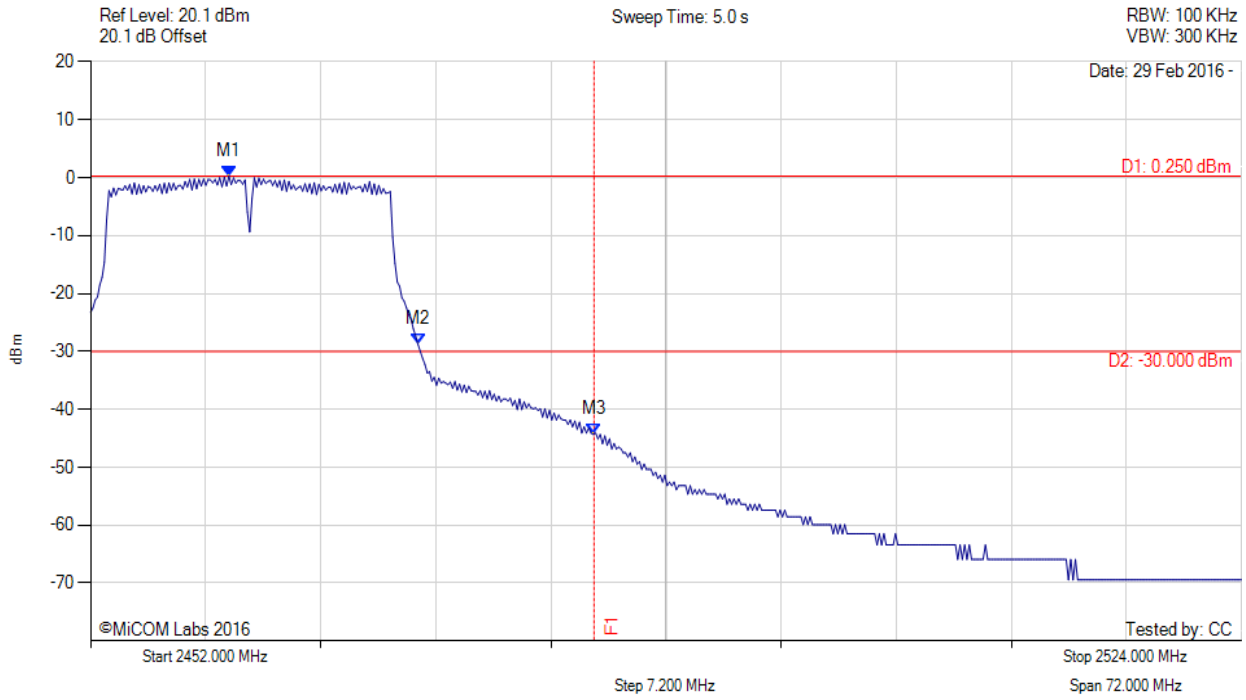
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.657 MHz : 0.250 dBm<br>M2 : 2472.489 MHz : -28.817 dBm<br>M3 : 2483.500 MHz : -44.339 dBm | Channel Frequency: 2462.00 MHz |

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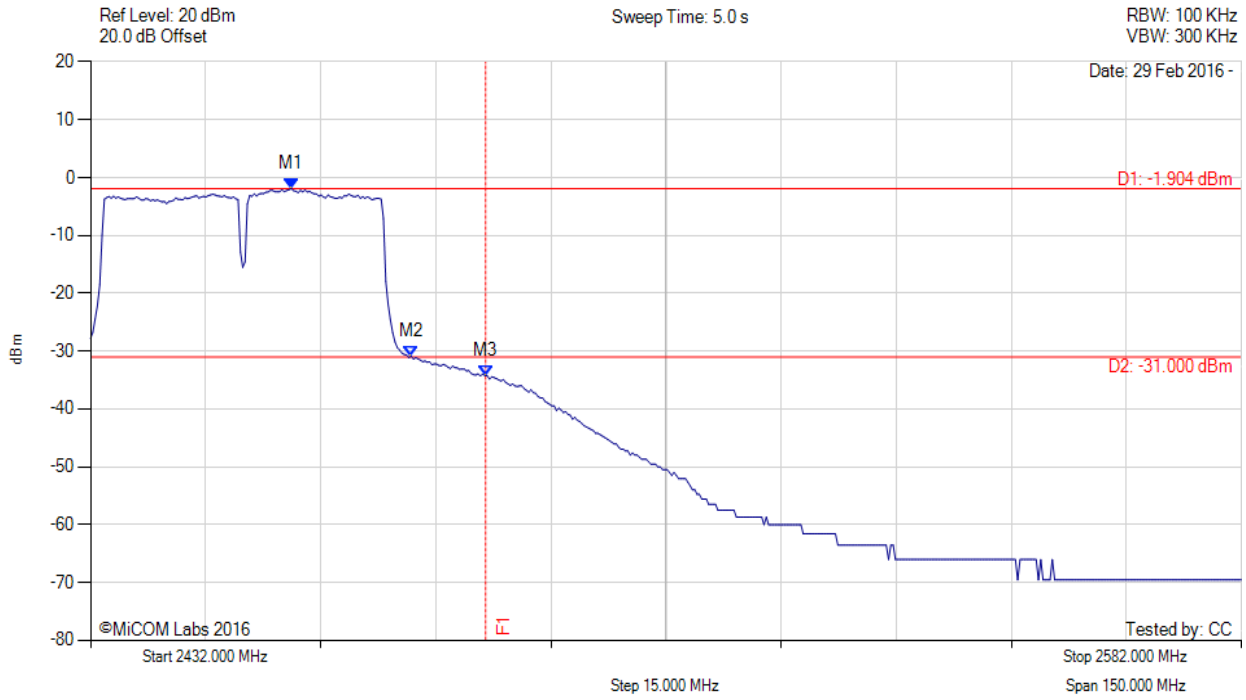
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2458.152 MHz : -1.904 dBm<br>M2 : 2473.784 MHz : -30.855 dBm<br>M3 : 2483.500 MHz : -34.202 dBm | Channel Frequency: 2452.00 MHz |

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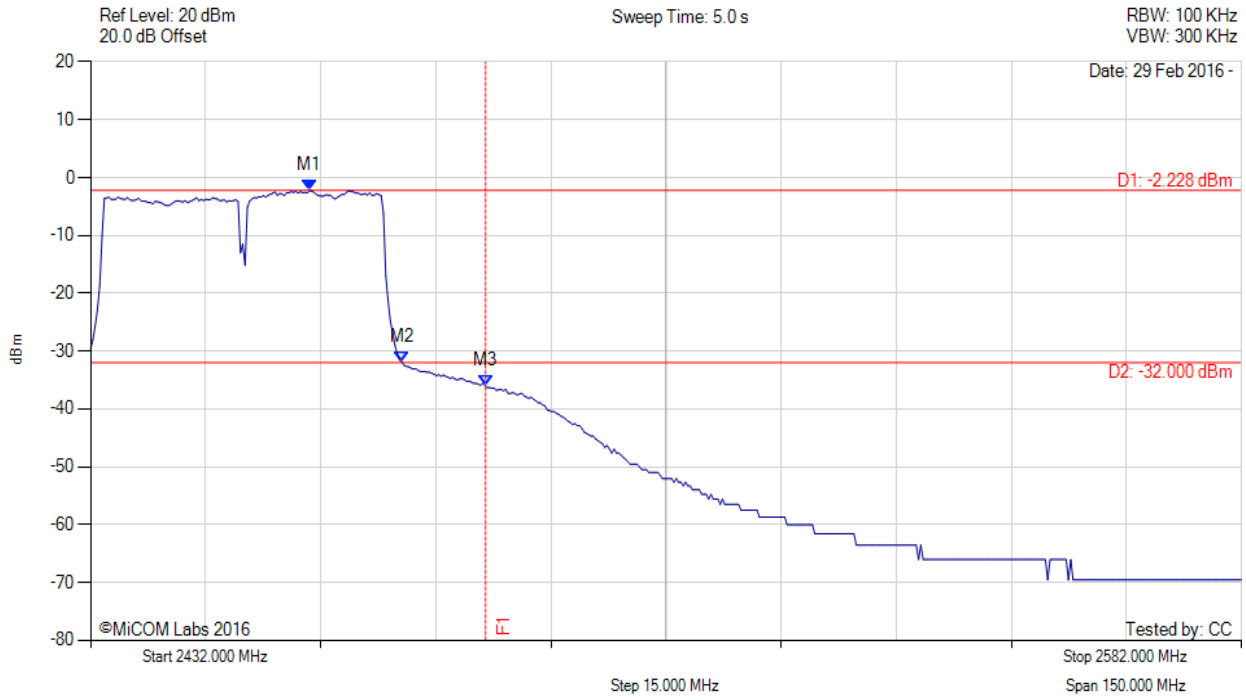
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2460.557 MHz : -2.228 dBm<br>M2 : 2472.581 MHz : -31.928 dBm<br>M3 : 2483.500 MHz : -35.920 dBm | Channel Frequency: 2452.00 MHz |

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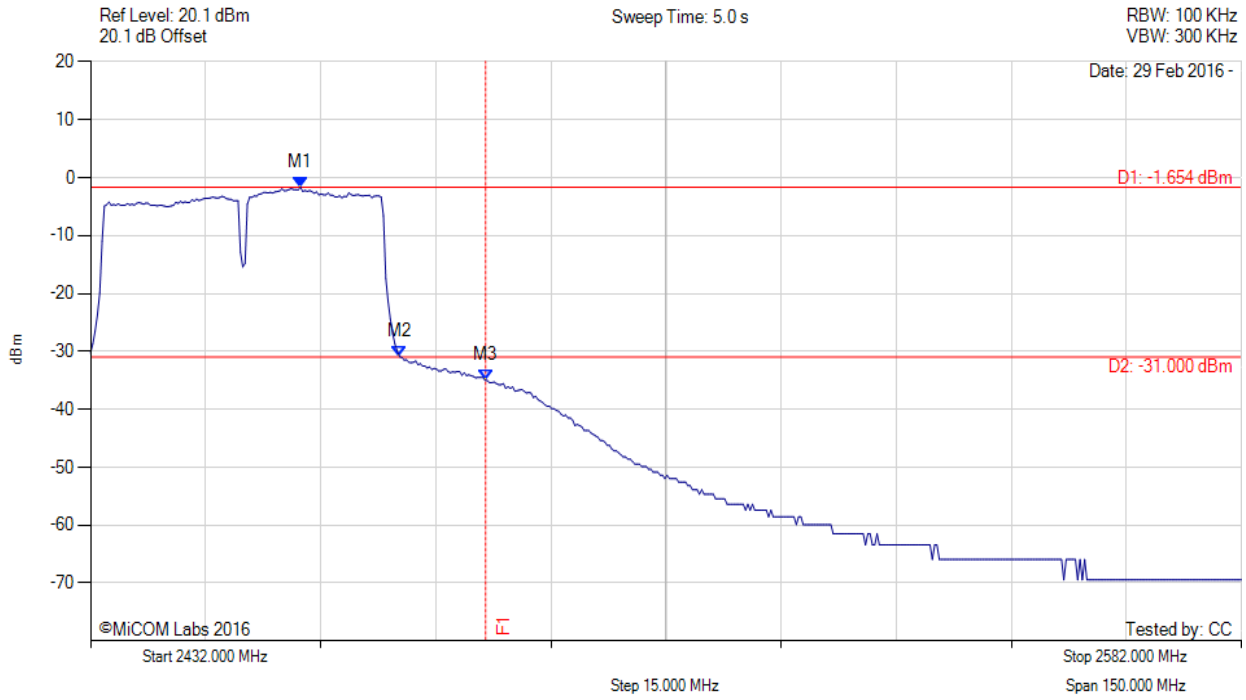
CONDUCTED HIGH BAND-EDGE EMISSIONS - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 10<br>Trace Mode = VIEW | M1 : 2459.355 MHz : -1.654 dBm<br>M2 : 2472.281 MHz : -30.908 dBm<br>M3 : 2483.500 MHz : -34.959 dBm | Channel Frequency: 2452.00 MHz |

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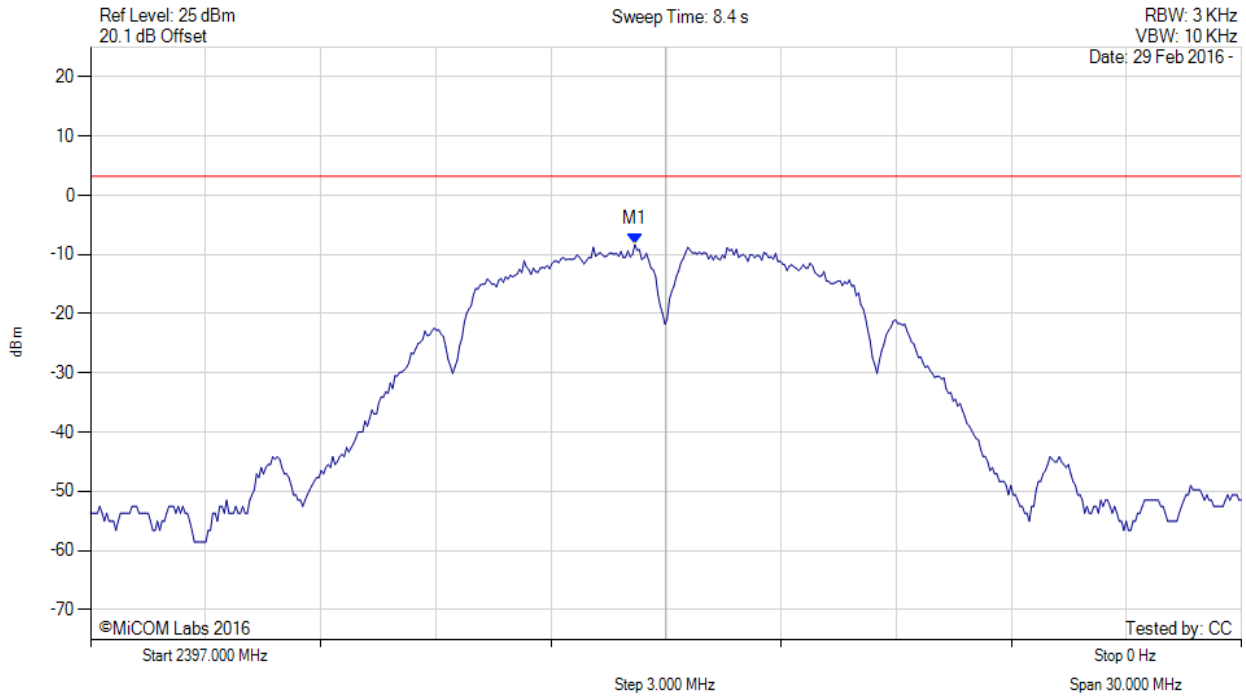
## A.3. Power Spectral Density

POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2411.188 MHz : -8.307 dBm | Limit: ≤ 3.230 dBm |

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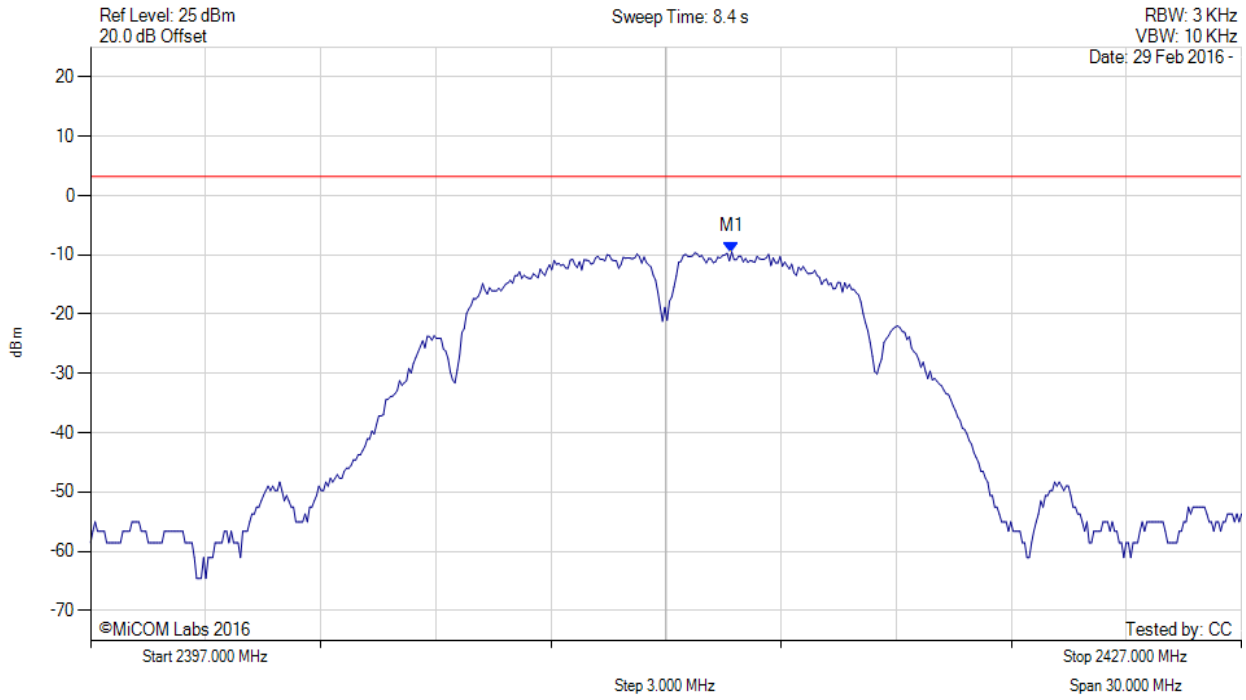
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2413.713 MHz : -9.488 dBm | Limit: ≤ 3.230 dBm |

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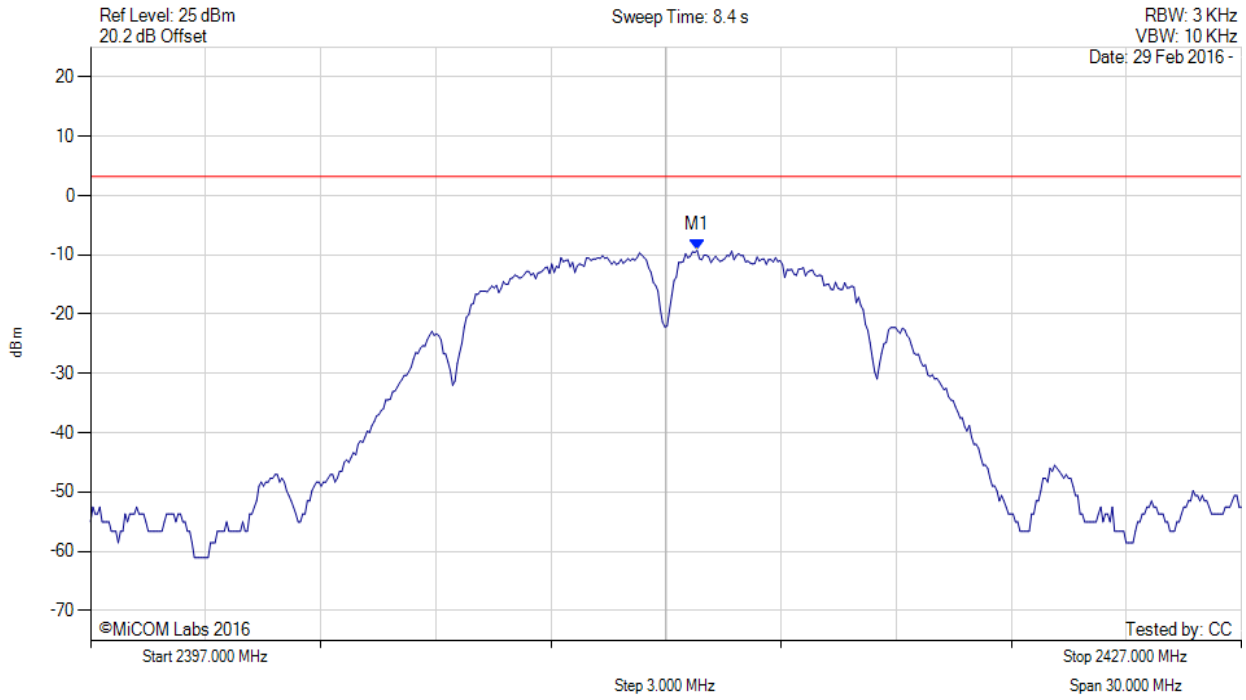
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2412.812 MHz : -9.209 dBm | Limit: ≤ 3.230 dBm |

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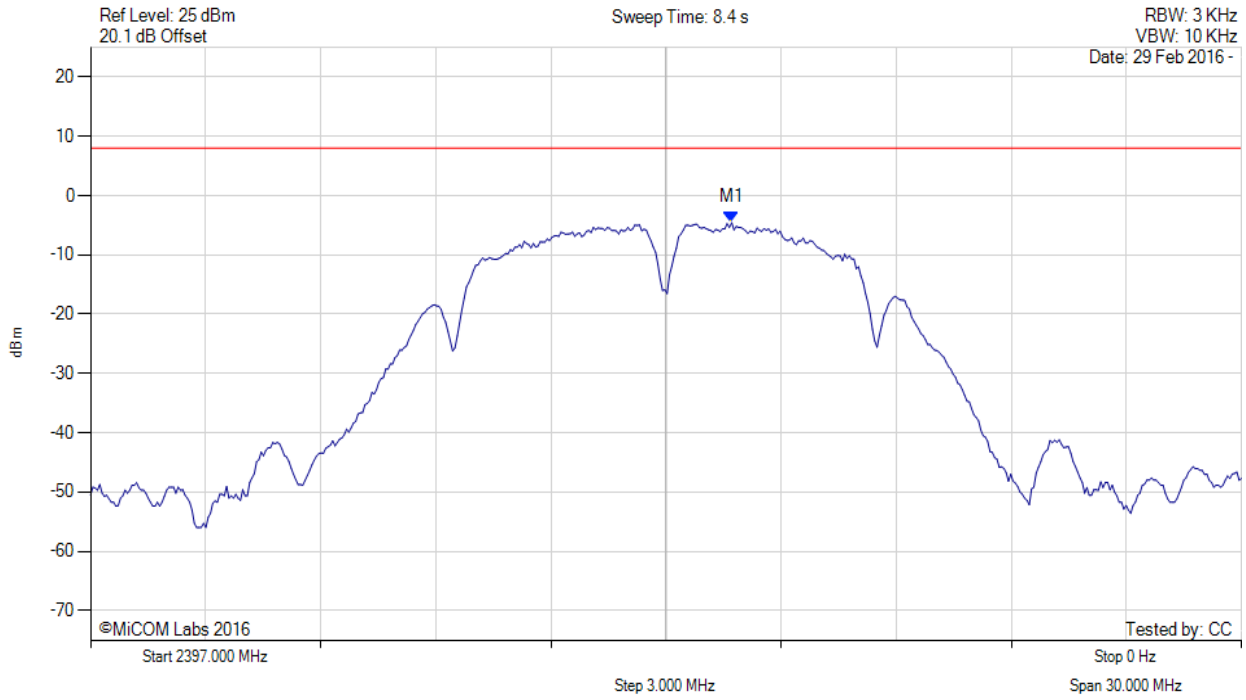
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2412.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2413.700 MHz : -4.556 dBm<br>M1 + DCCF : 2413.700 MHz : -4.512 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -12.5 dB |

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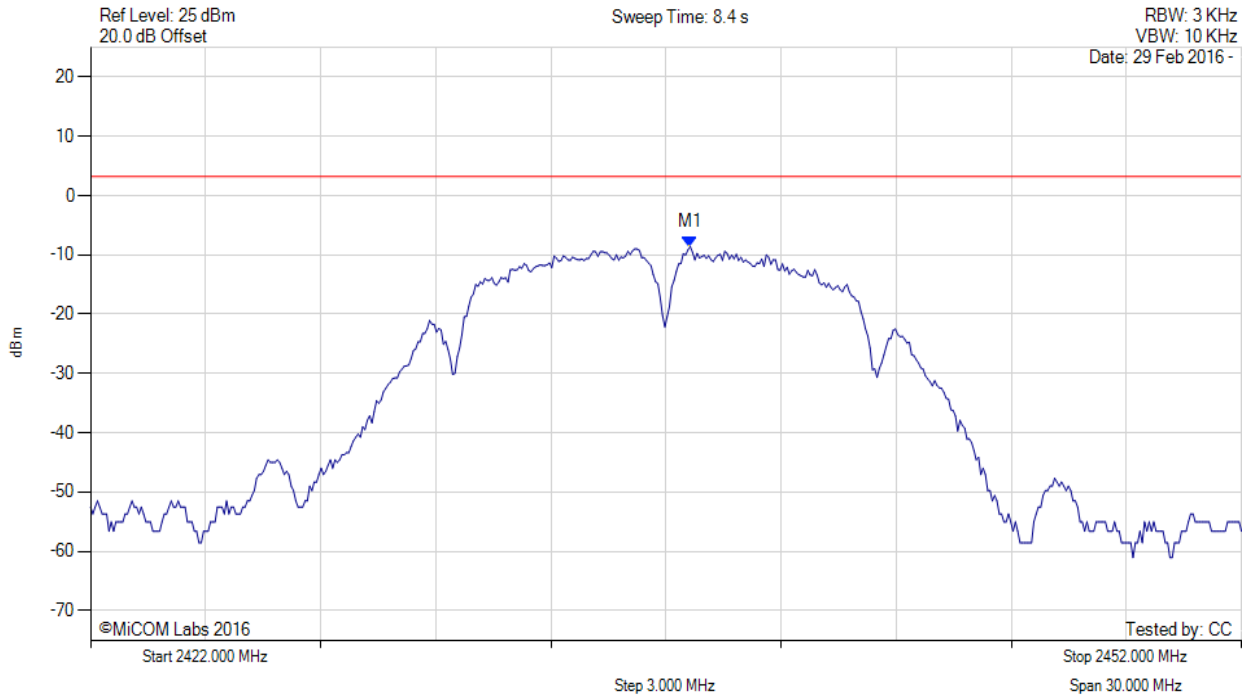
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2437.631 MHz : -8.592 dBm | Limit: ≤ 3.230 dBm |

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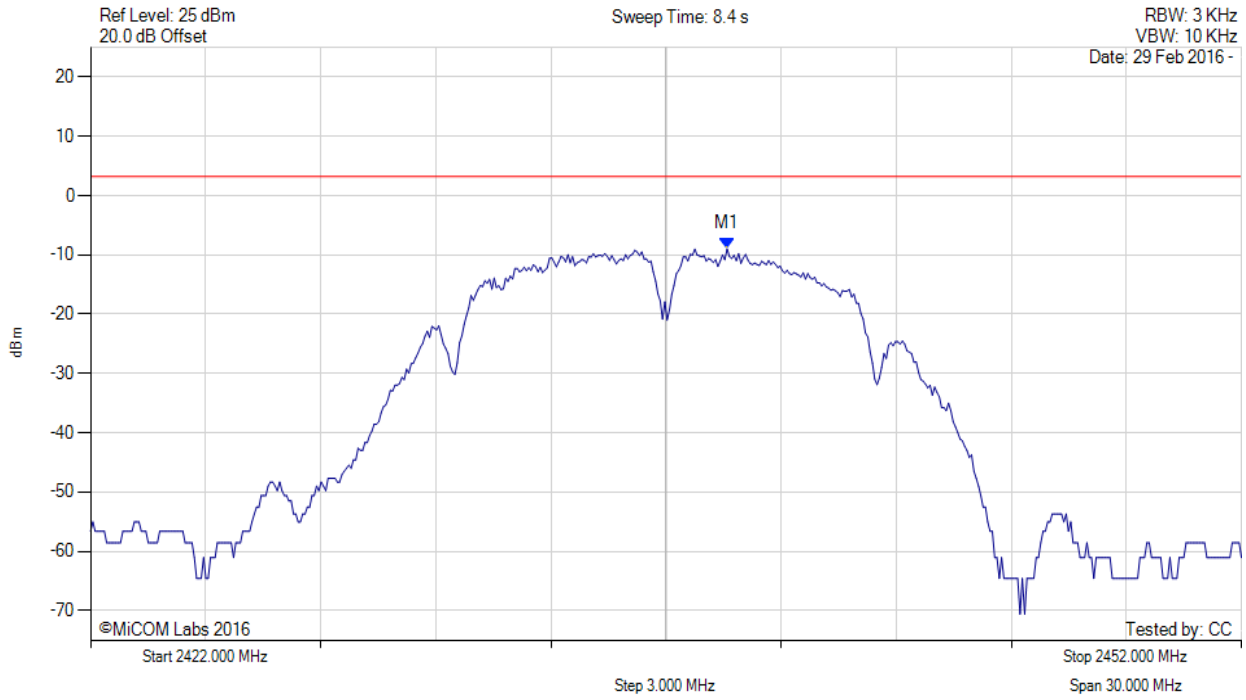
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2438.593 MHz : -8.960 dBm | Limit: ≤ 3.230 dBm |

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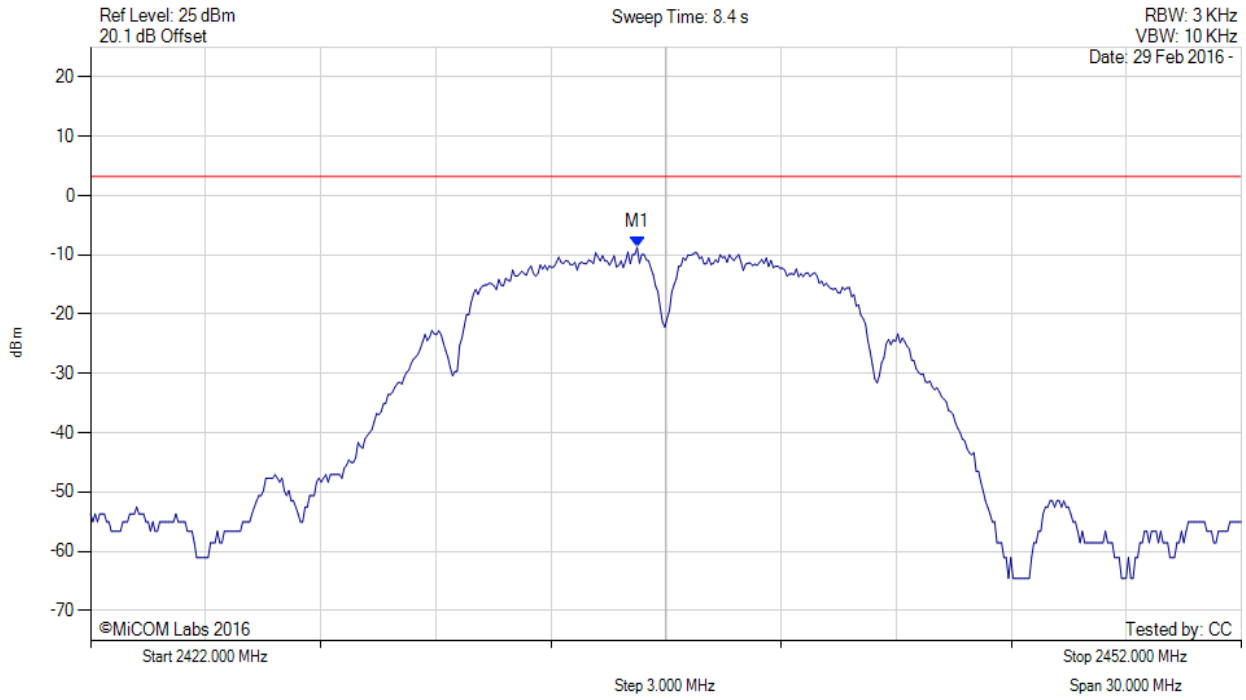
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2436.248 MHz : -8.739 dBm | Limit: ≤ 3.230 dBm |

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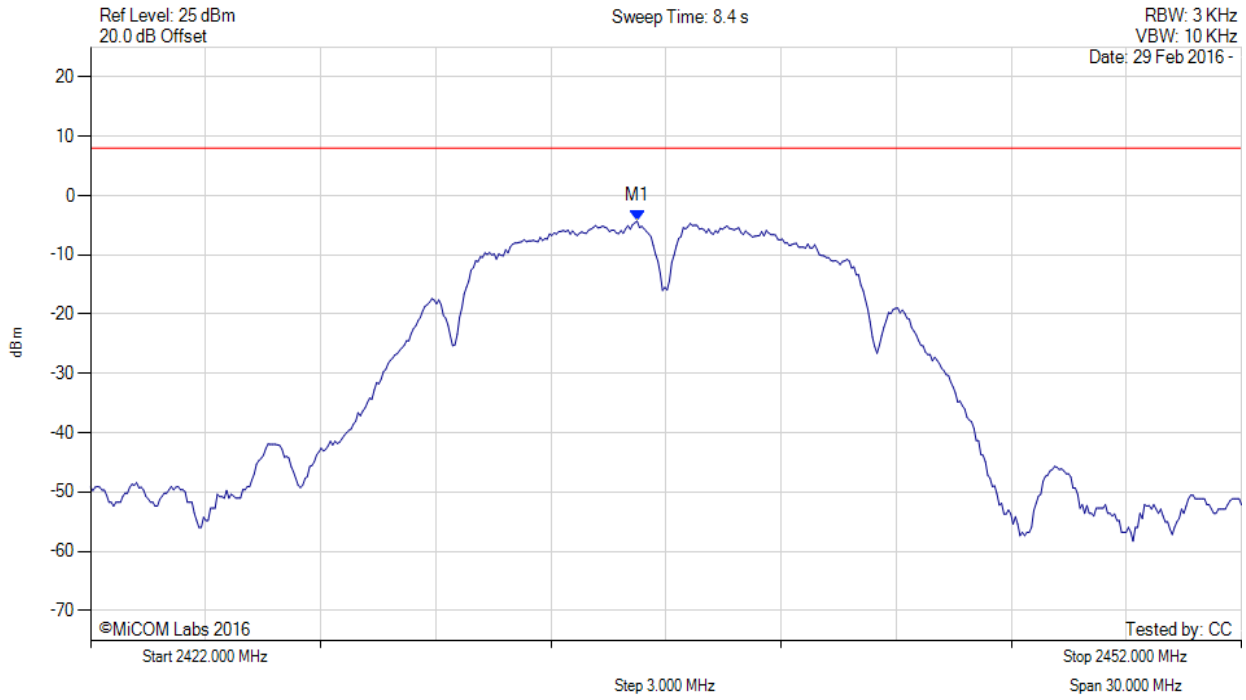
This test report may be reproduced in full only. The document may only be updated by MiCOM Labs personnel. All changes will be noted in the Document History section of the report.

POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2437.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2436.200 MHz : -4.300 dBm<br>M1 + DCCF : 2436.200 MHz : -4.256 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -12.2 dB |

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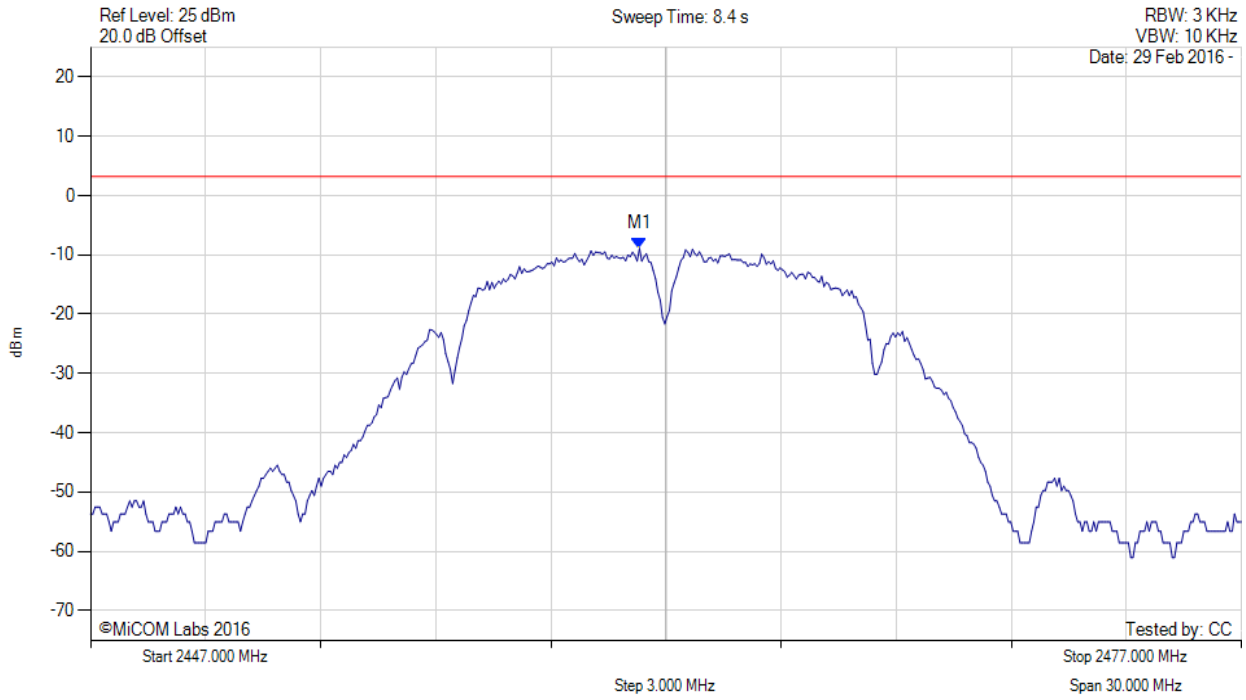
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2461.309 MHz : -8.902 dBm | Limit: ≤ 3.230 dBm |

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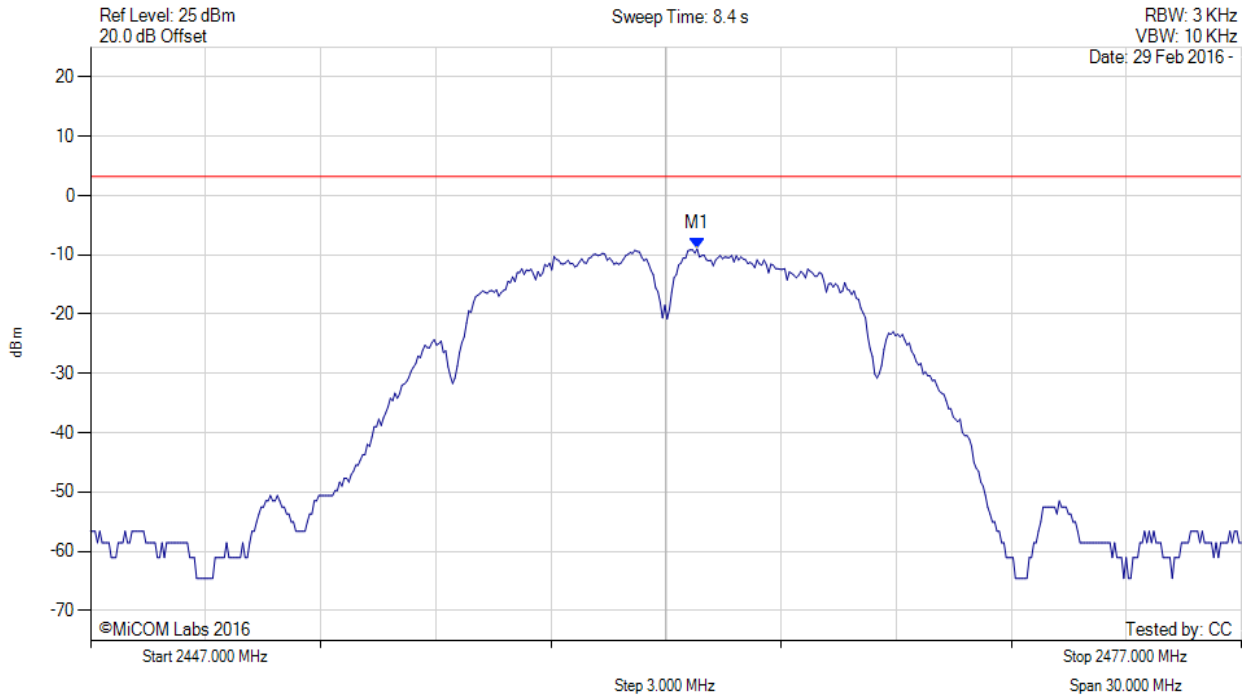
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2462.812 MHz : -8.989 dBm | Limit: ≤ 3.230 dBm |

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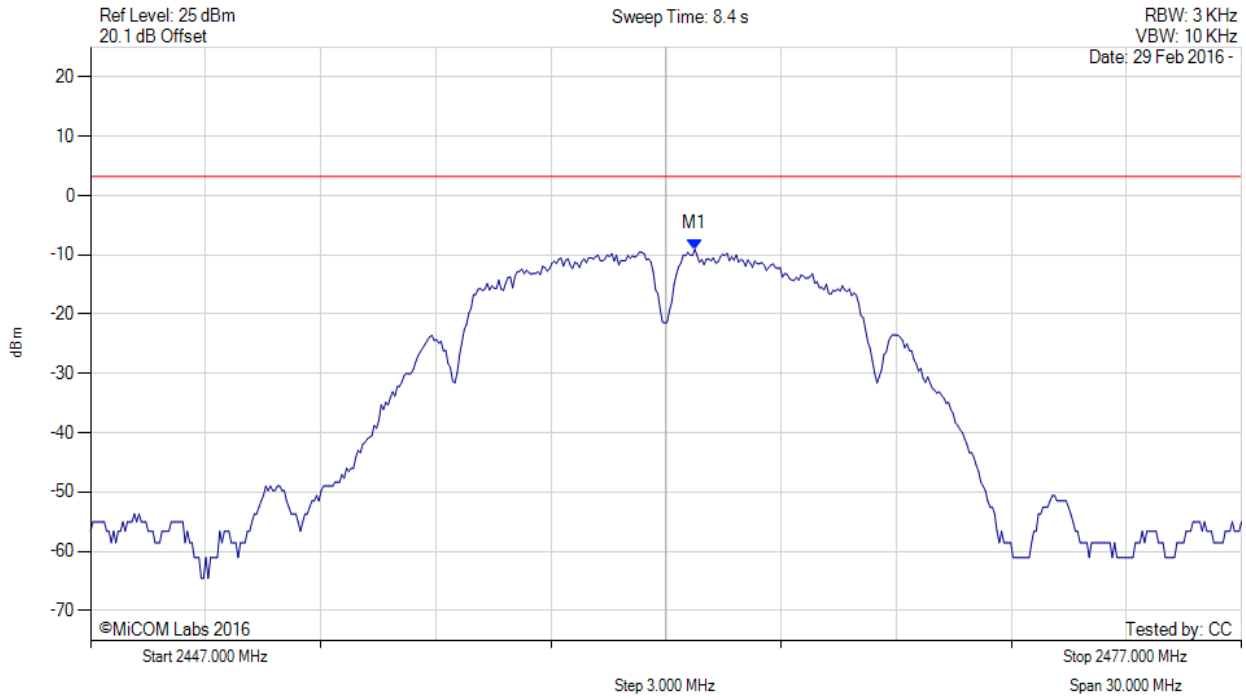
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2462.752 MHz : -9.040 dBm | Limit: ≤ 3.230 dBm |

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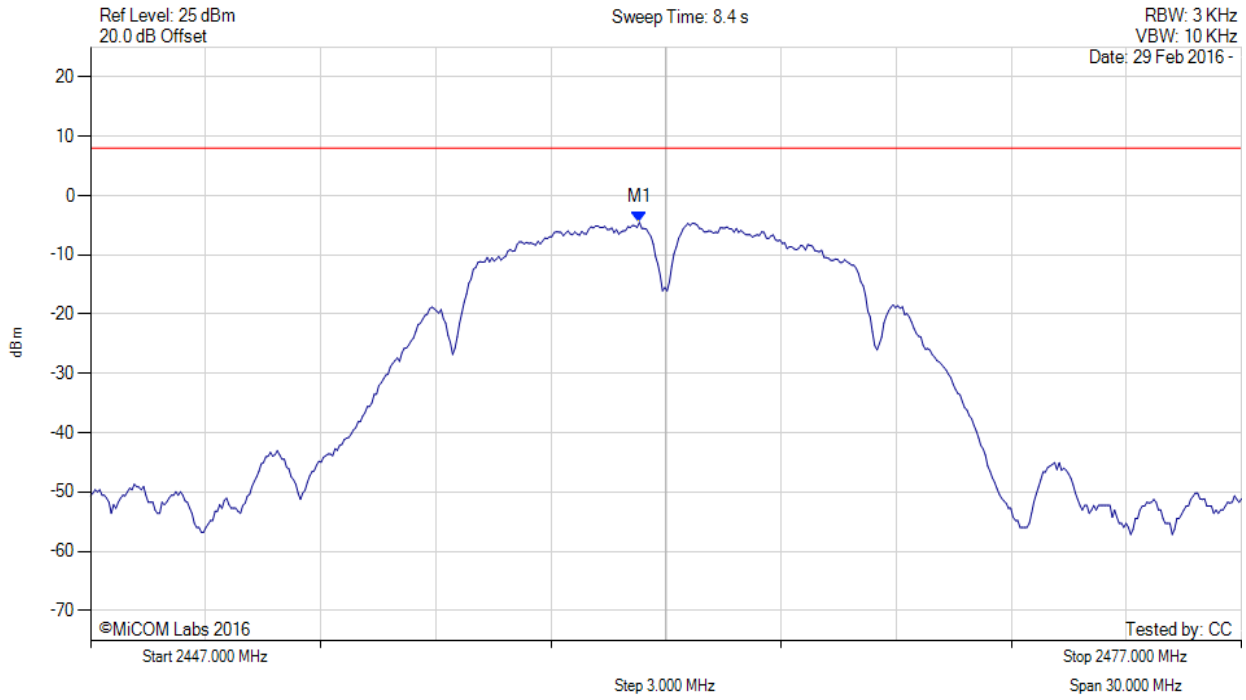
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11b, Channel: 2462.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2461.300 MHz : -4.515 dBm<br>M1 + DCCF : 2461.300 MHz : -4.471 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -12.4 dB |

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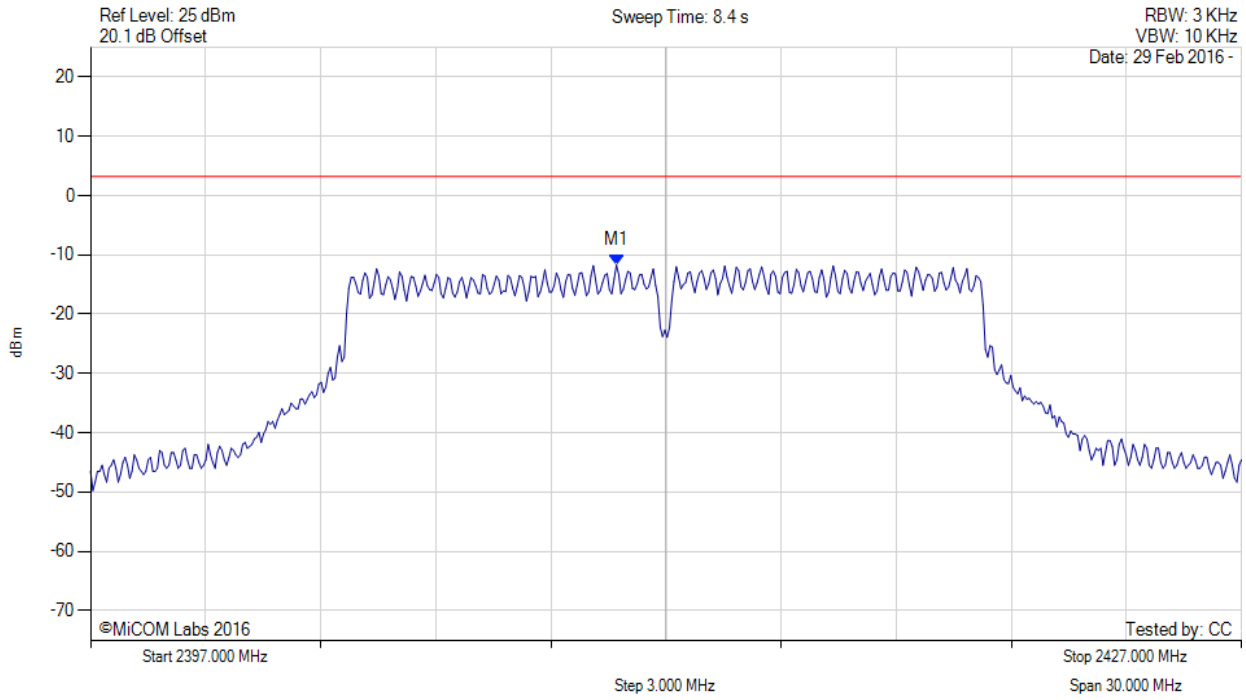
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2410.707 MHz : -11.695 dBm | Limit: ≤ 3.230 dBm |

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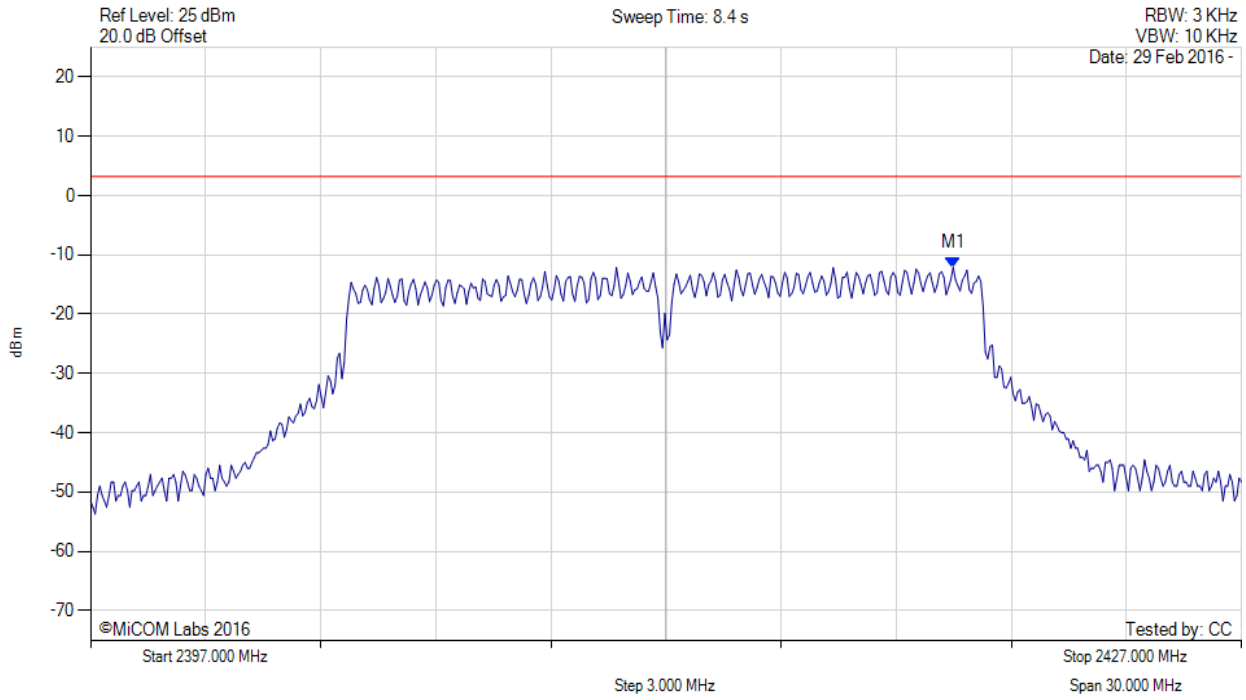
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2419.485 MHz : -12.100 dBm | Limit: ≤ 3.230 dBm |

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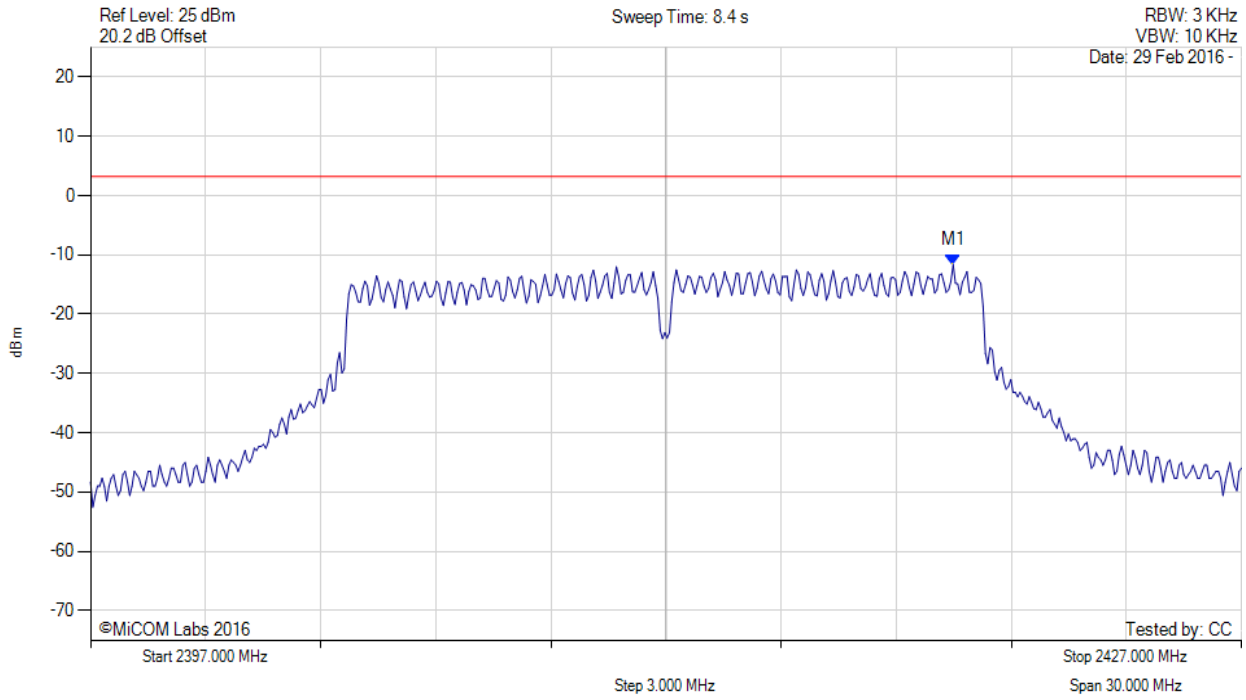
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2419.485 MHz : -11.666 dBm | Limit: ≤ 3.230 dBm |

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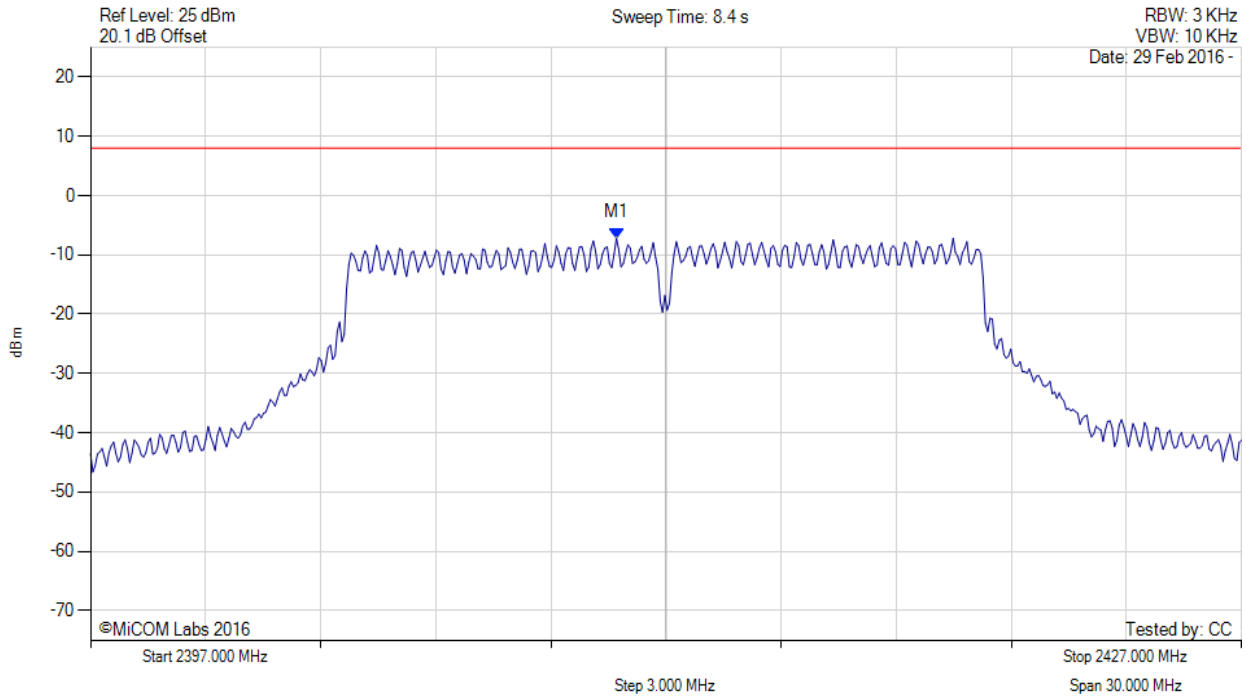
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2412.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2410.700 MHz : -7.170 dBm<br>M1 + DCCF : 2410.700 MHz : -6.947 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -14.9 dB |

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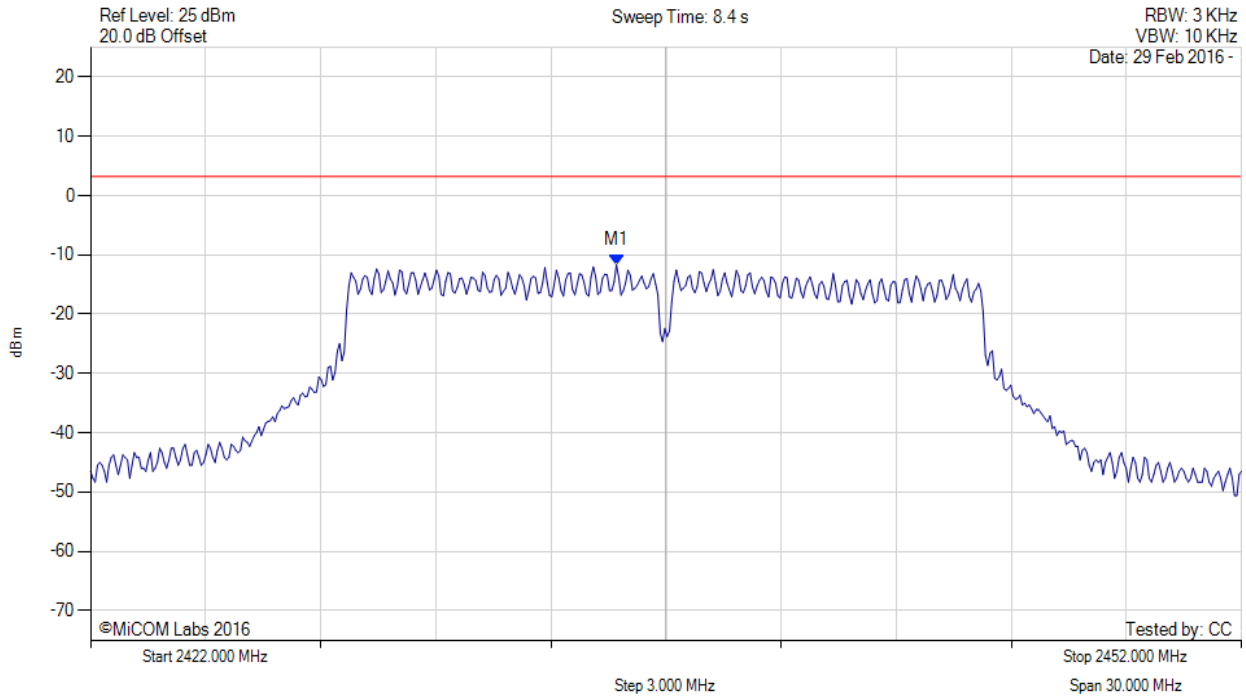
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.707 MHz : -11.666 dBm | Limit: ≤ 3.230 dBm |

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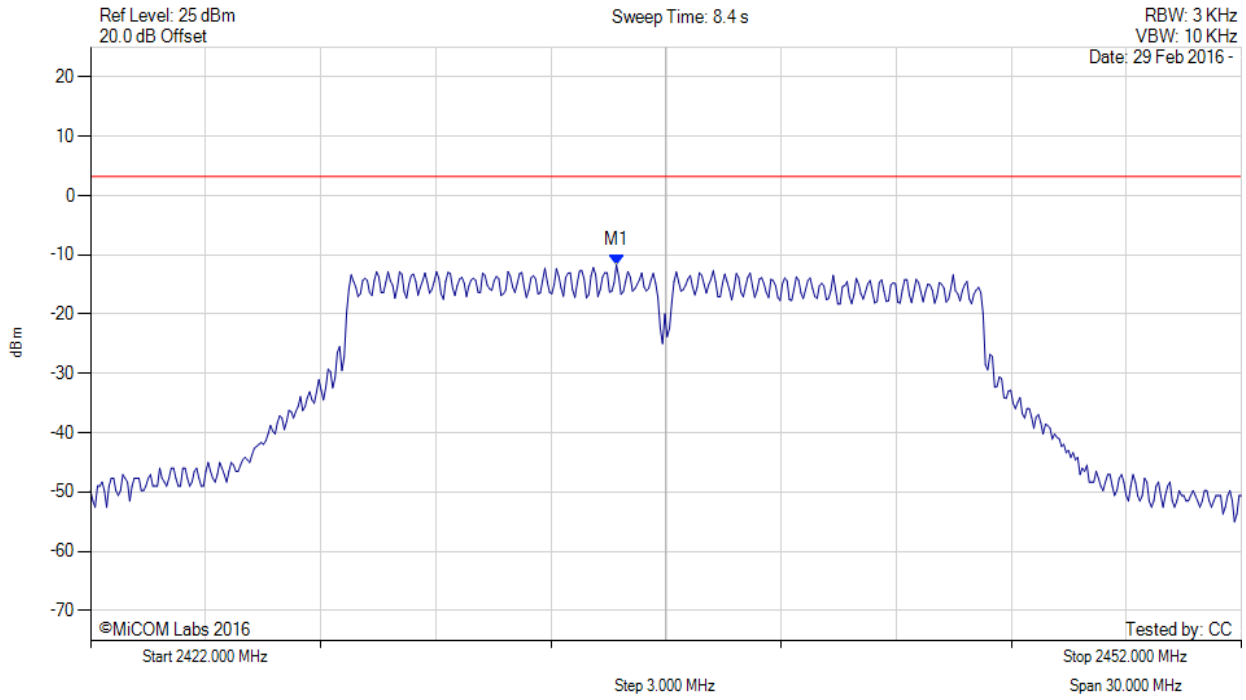
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.707 MHz : -11.686 dBm | Limit: ≤ 3.230 dBm |

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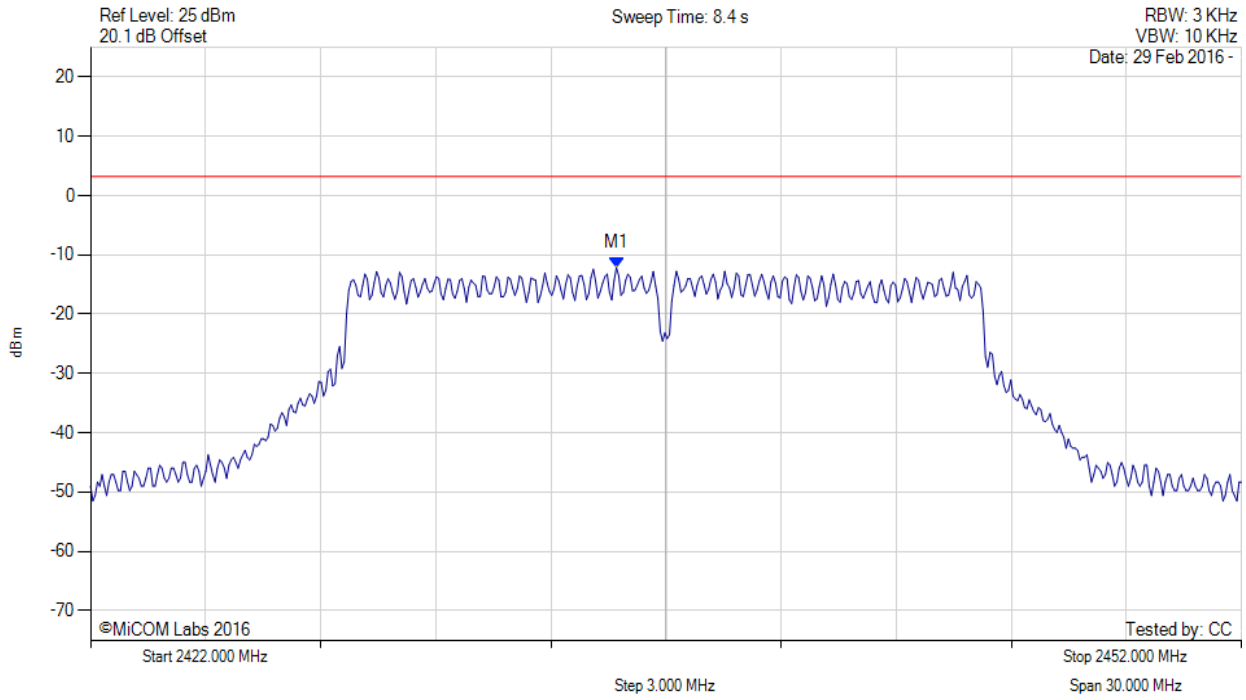
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.707 MHz : -12.132 dBm | Limit: ≤ 3.230 dBm |

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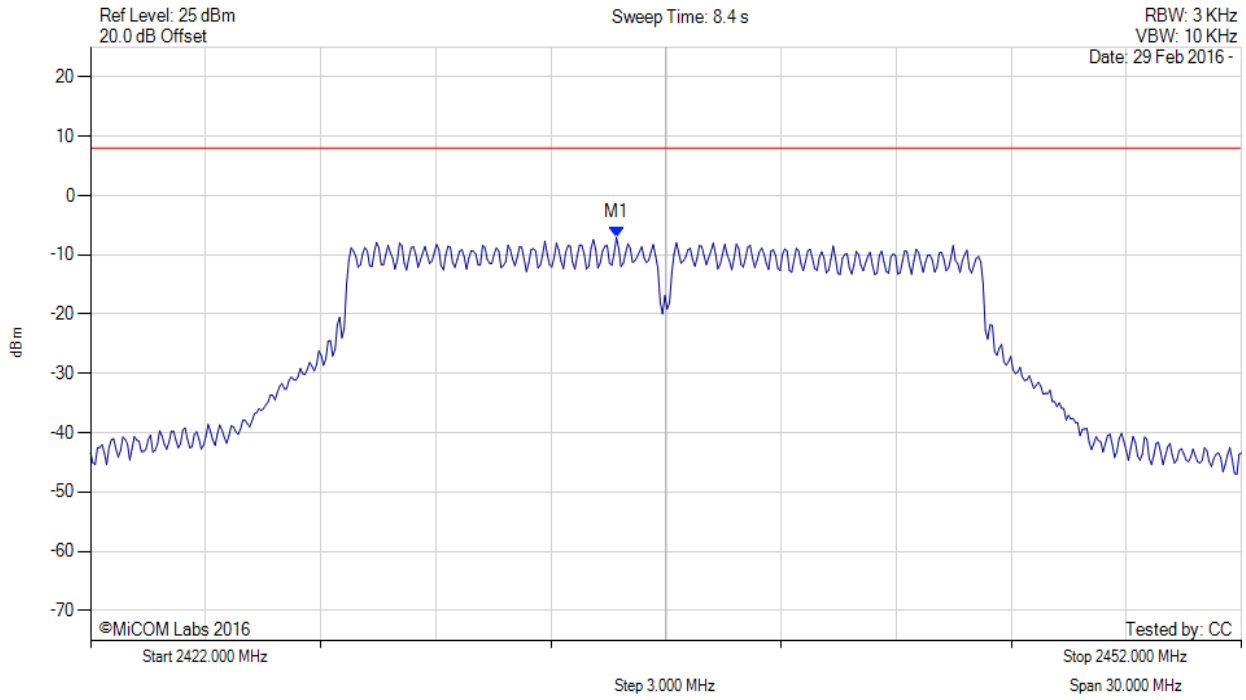
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2437.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.700 MHz : -7.051 dBm<br>M1 + DCCF : 2435.700 MHz : -6.828 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -14.8 dB |

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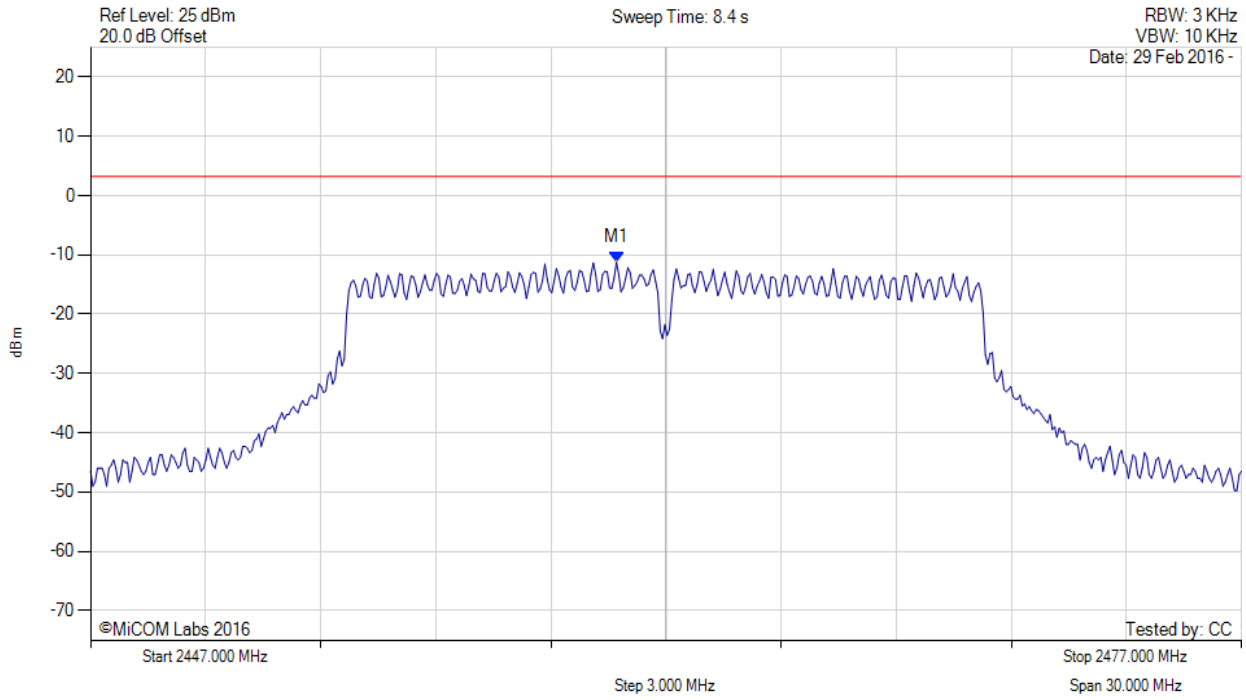
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.707 MHz : -11.224 dBm | Limit: ≤ 3.230 dBm |

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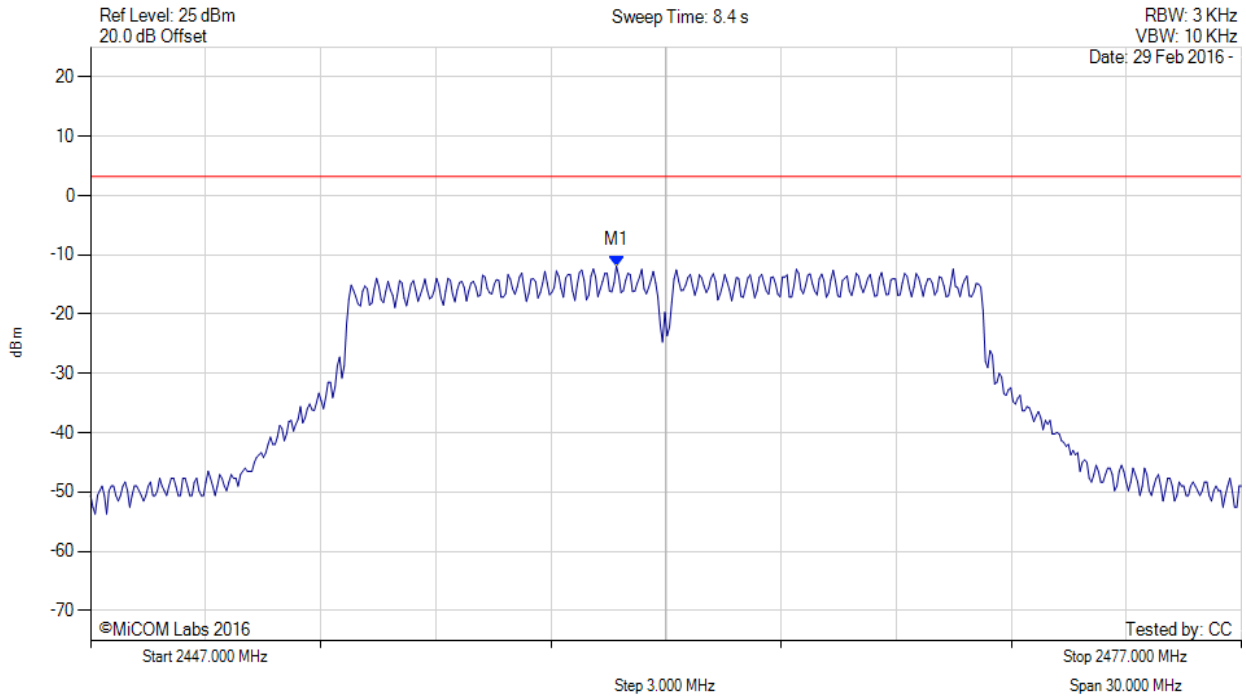
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.707 MHz : -11.825 dBm | Limit: ≤ 3.230 dBm |

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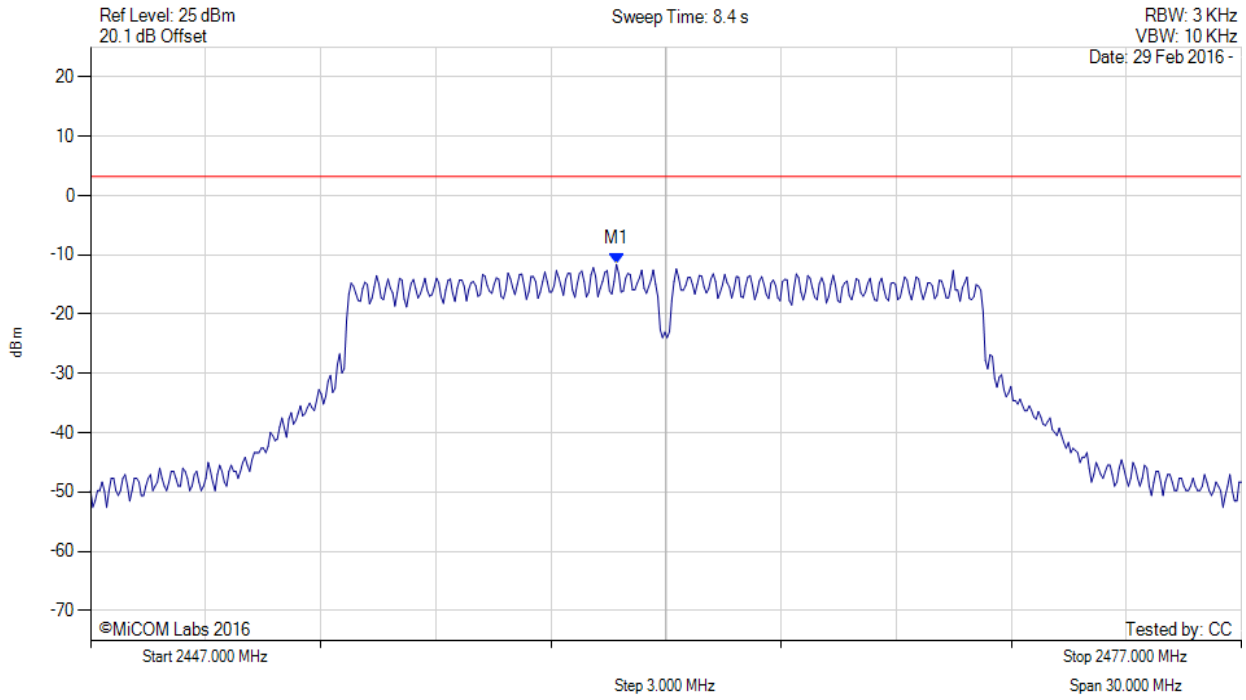
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.707 MHz : -11.578 dBm | Limit: ≤ 3.230 dBm |

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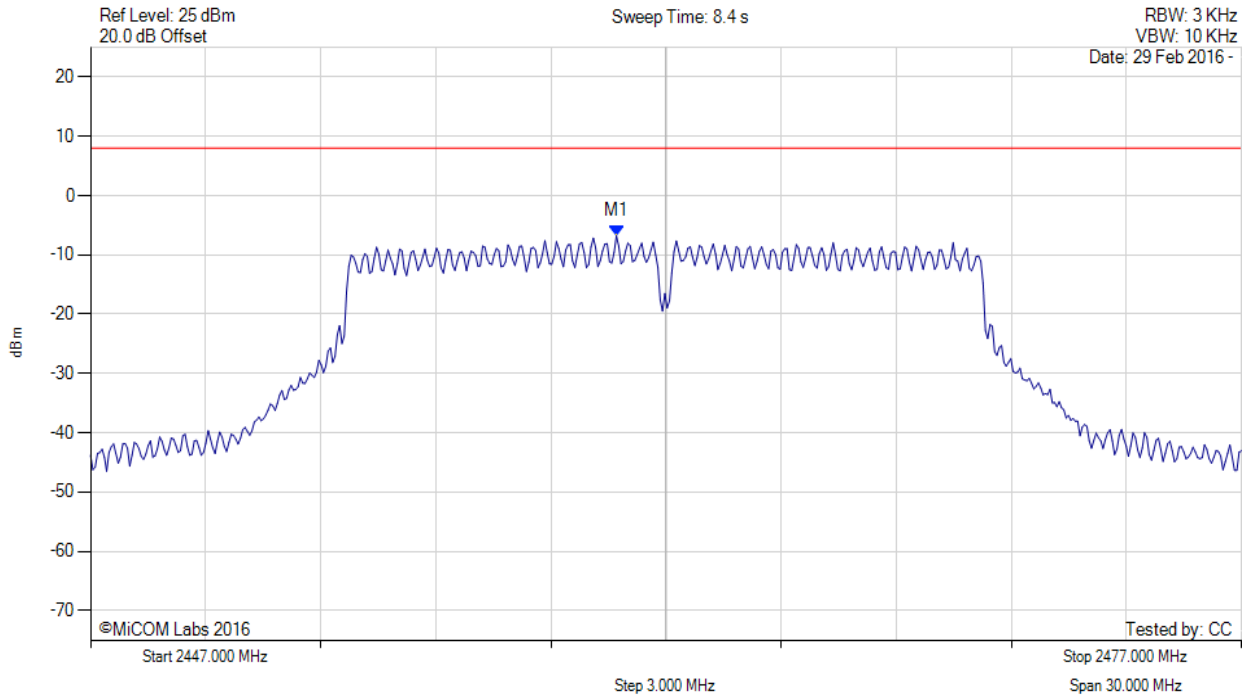
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11g, Channel: 2462.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.700 MHz : -6.764 dBm<br>M1 + DCCF : 2460.700 MHz : -6.541 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -14.5 dB |

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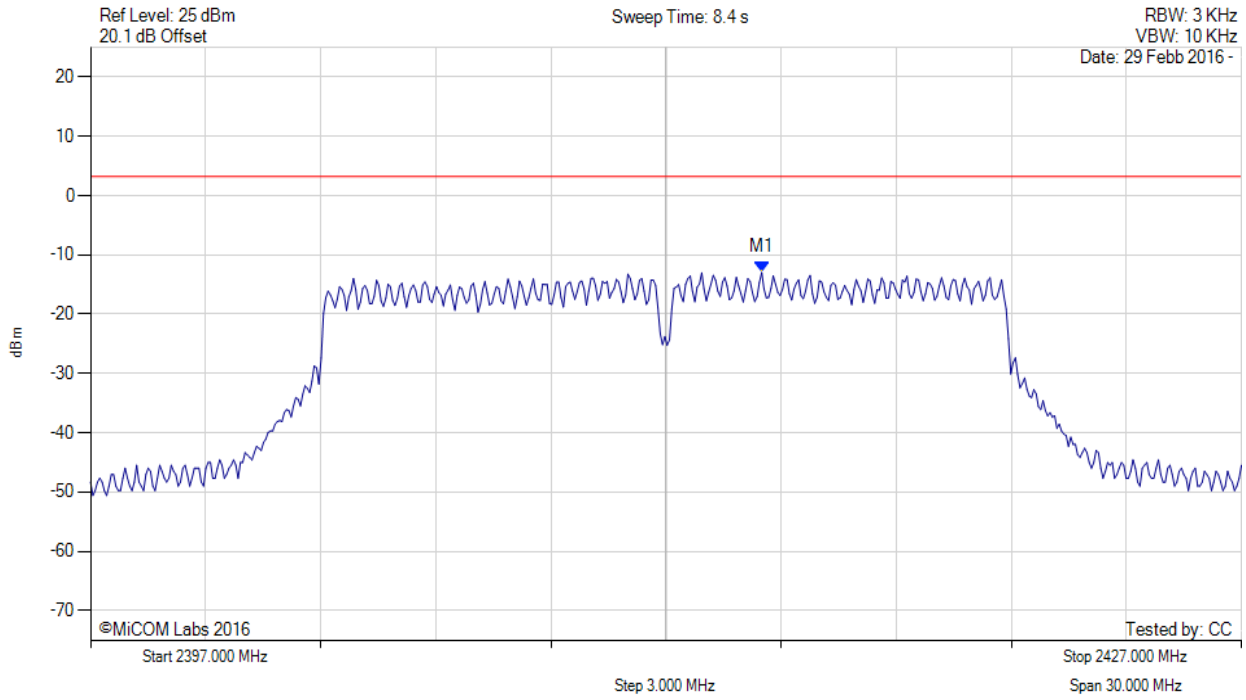
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2414.495 MHz : -12.949 dBm | Limit: ≤ 3.230 dBm |

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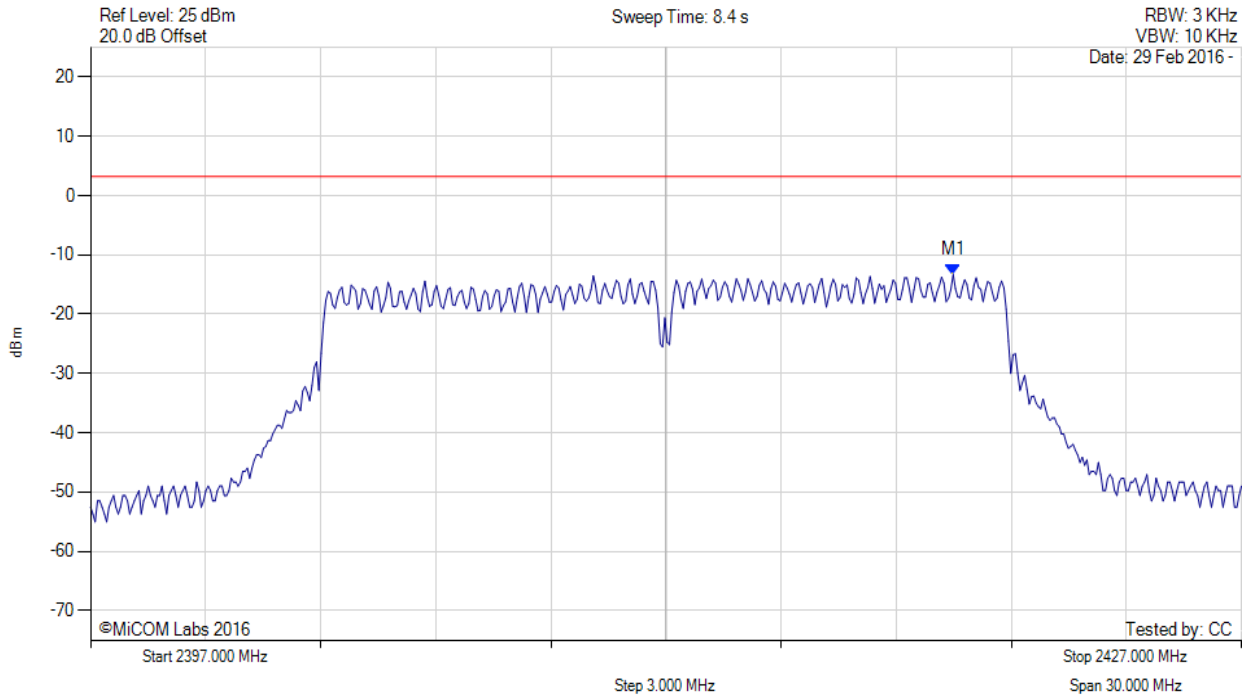
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2419.485 MHz : -13.323 dBm | Limit: ≤ 3.230 dBm |

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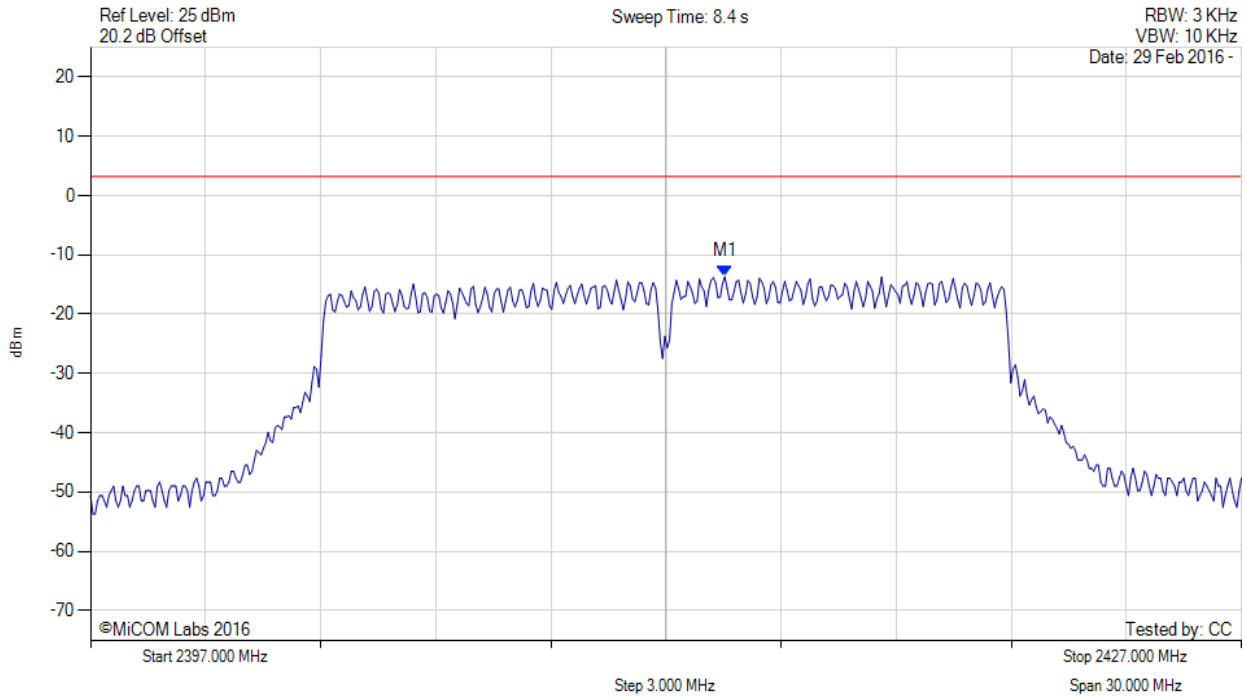
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2413.533 MHz : -13.688 dBm | Limit: ≤ 3.230 dBm |

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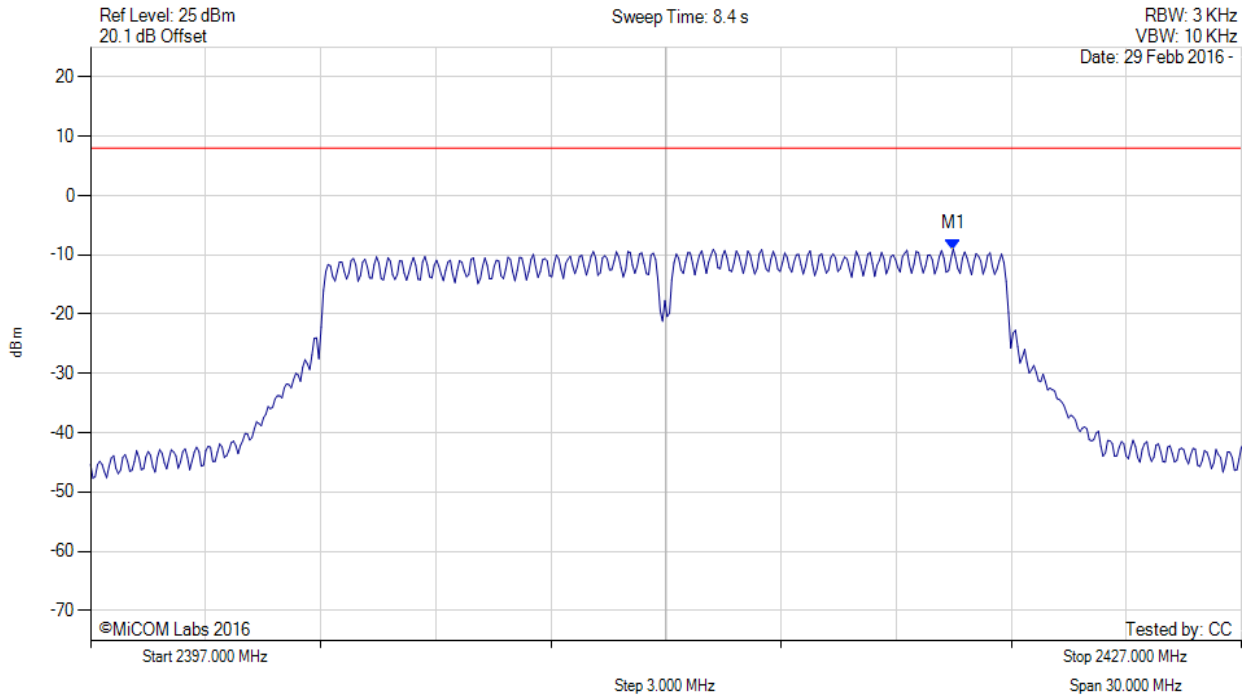
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2412.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2419.500 MHz : -9.027 dBm<br>M1 + DCCF : 2419.500 MHz : -8.804 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -16.8 dB |

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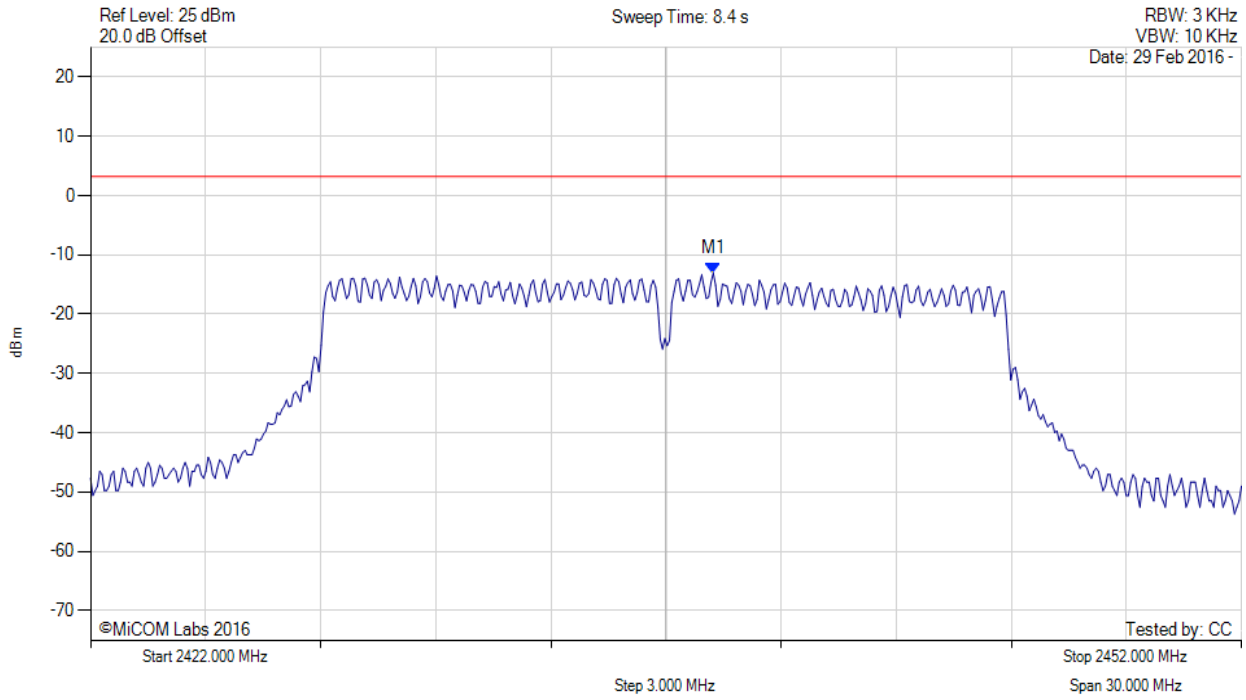
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2438.232 MHz : -13.053 dBm | Limit: ≤ 3.230 dBm |

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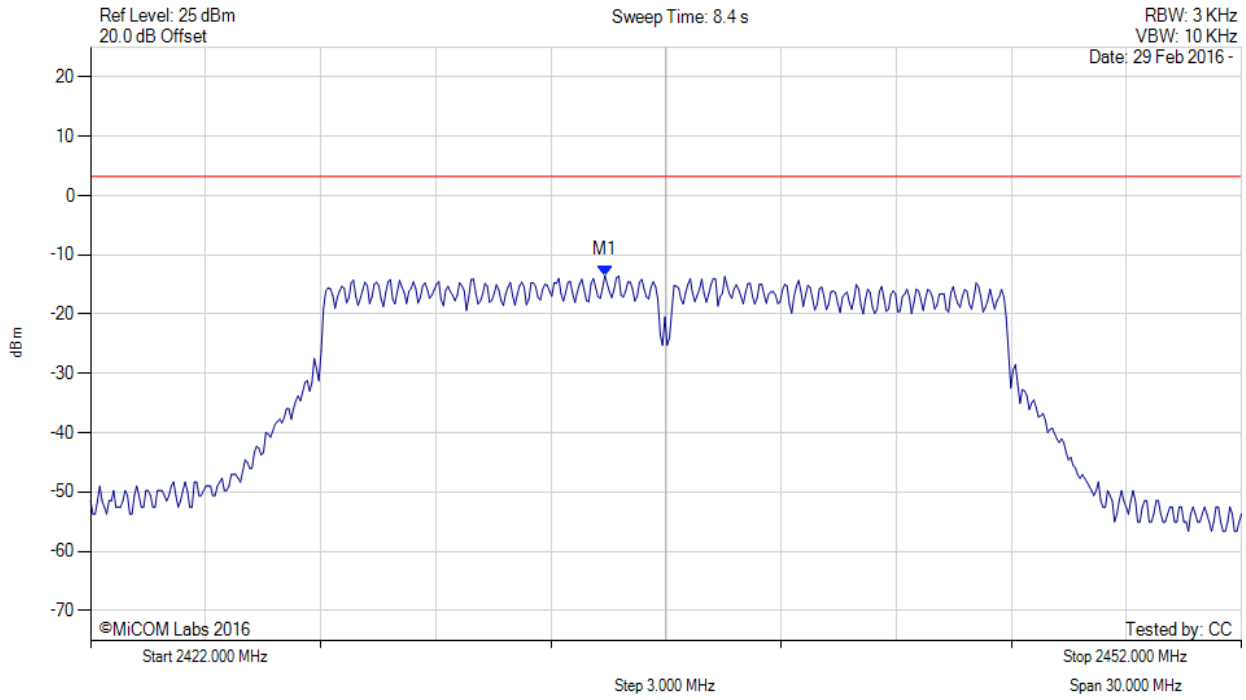
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.407 MHz : -13.467 dBm | Limit: ≤ 3.230 dBm |

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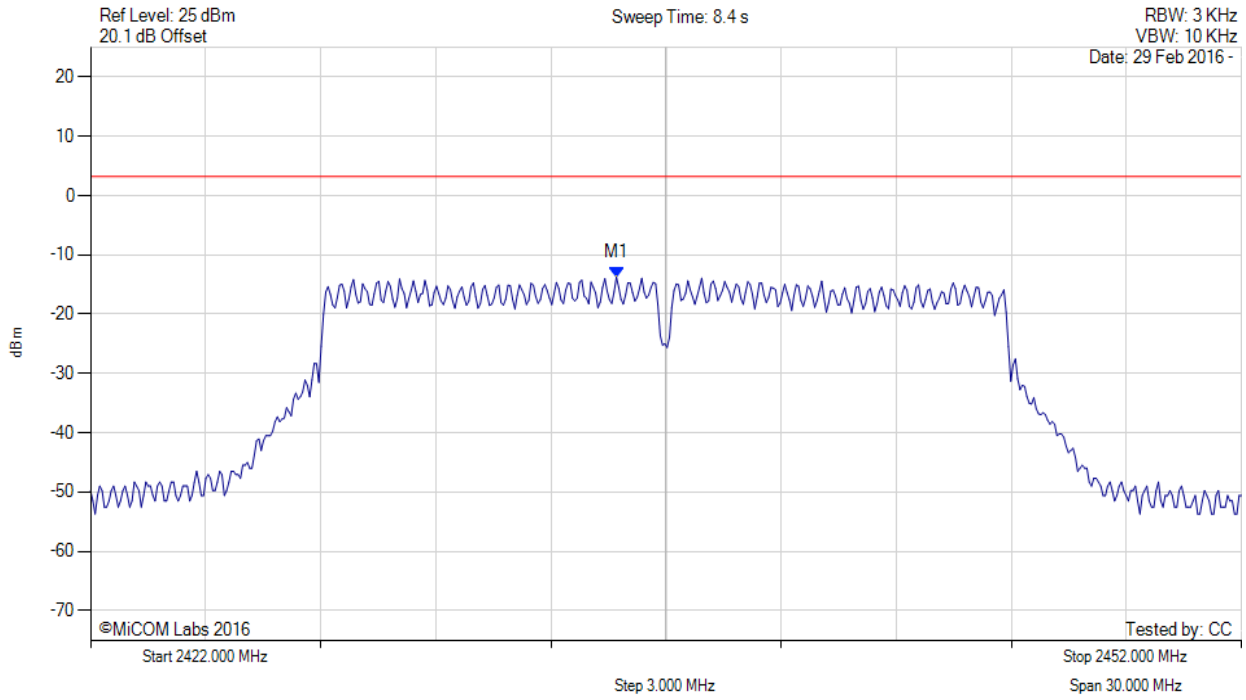
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2435.707 MHz : -13.726 dBm | Limit: ≤ 3.230 dBm |

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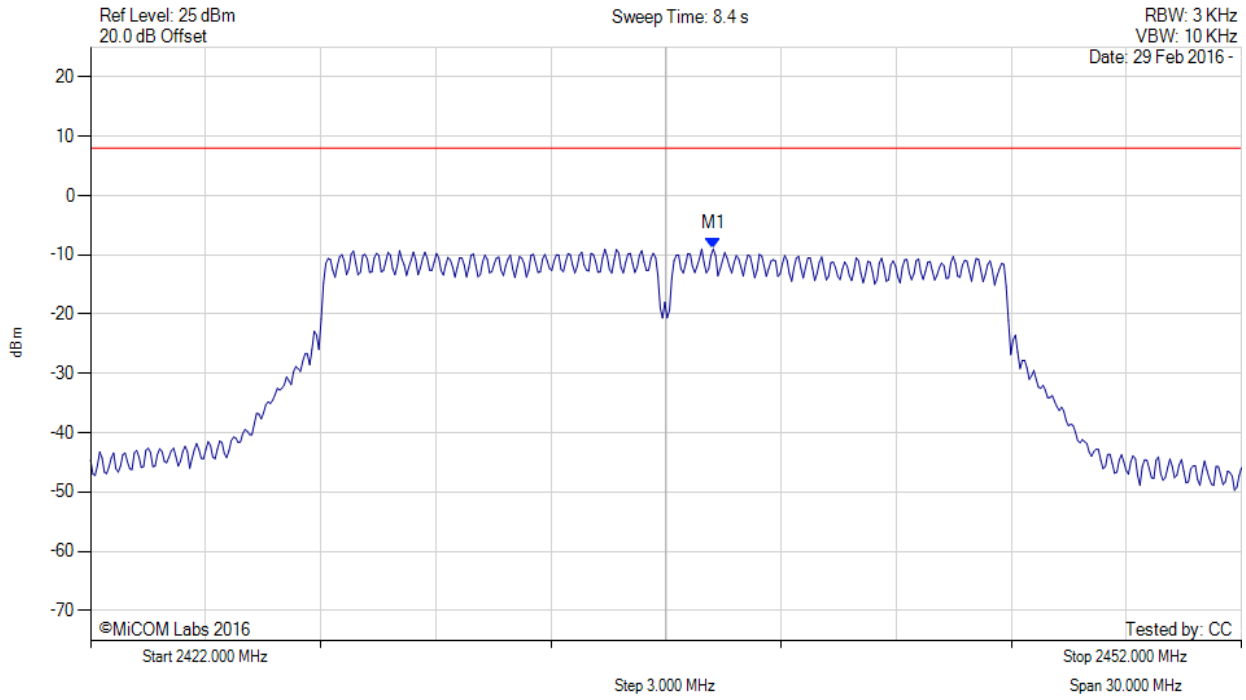
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2437.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2438.200 MHz : -8.999 dBm<br>M1 + DCCF : 2438.200 MHz : -8.776 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -16.7 dB |

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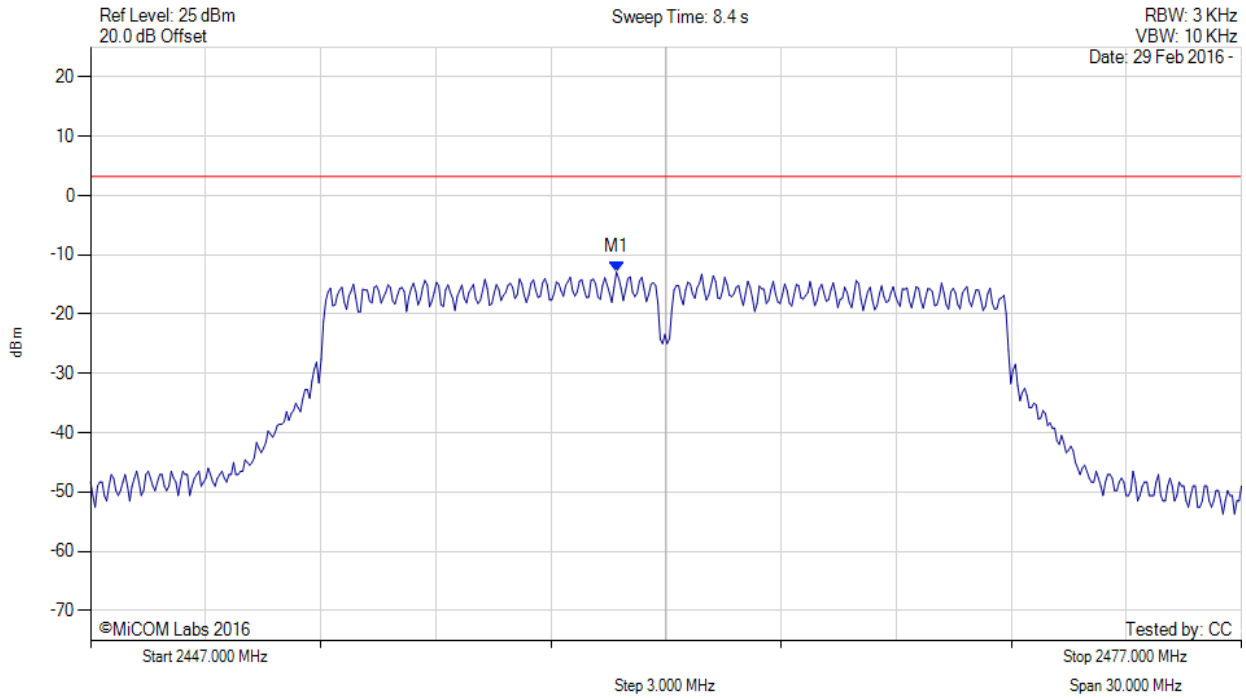
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.707 MHz : -12.892 dBm | Limit: ≤ 3.230 dBm |

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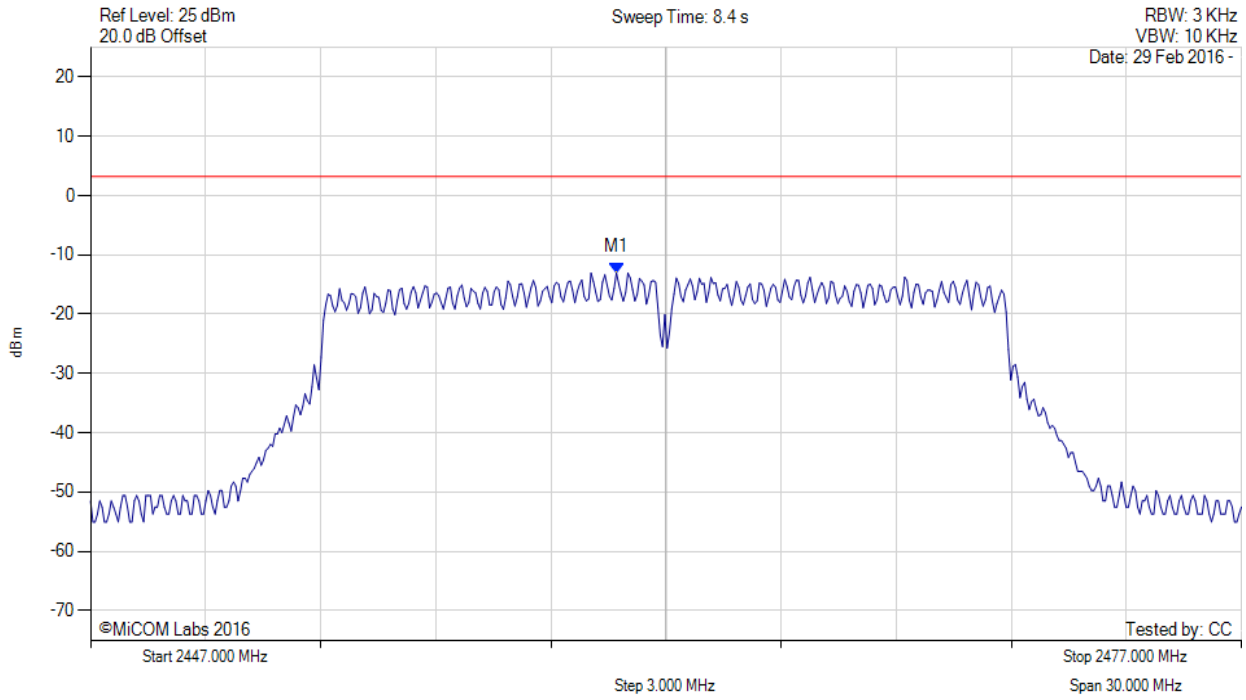
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.707 MHz : -13.006 dBm | Limit: ≤ 3.230 dBm |

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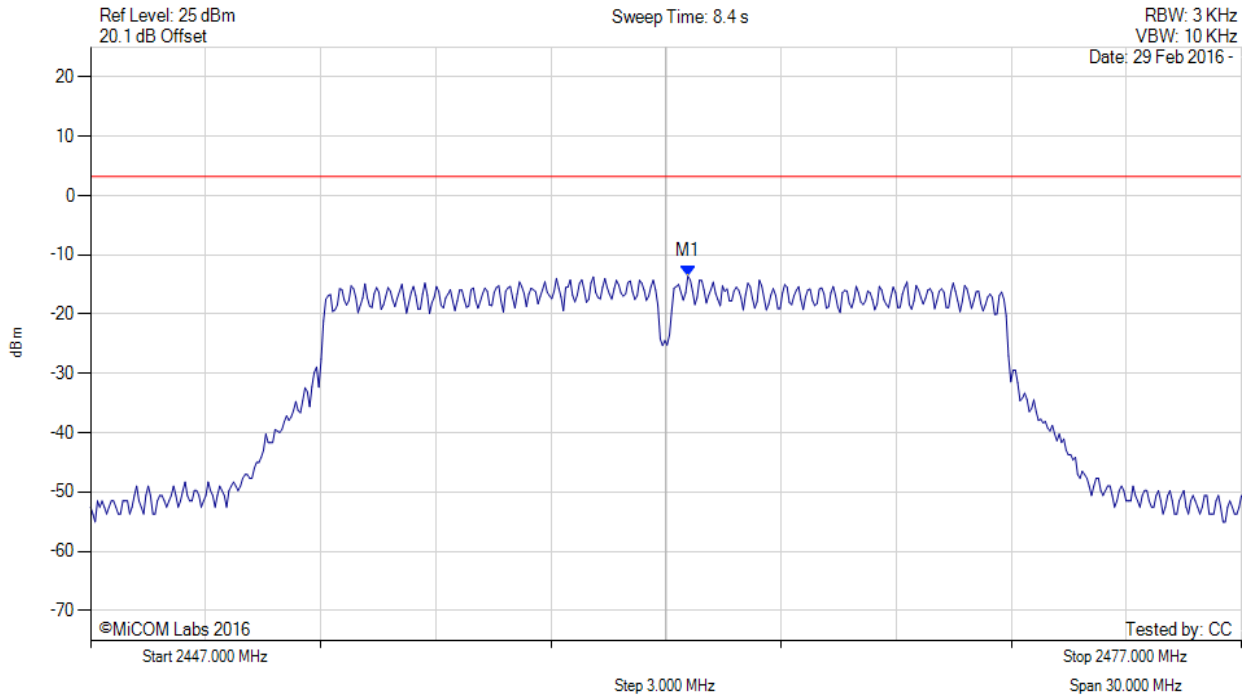
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2462.571 MHz : -13.589 dBm | Limit: ≤ 3.230 dBm |

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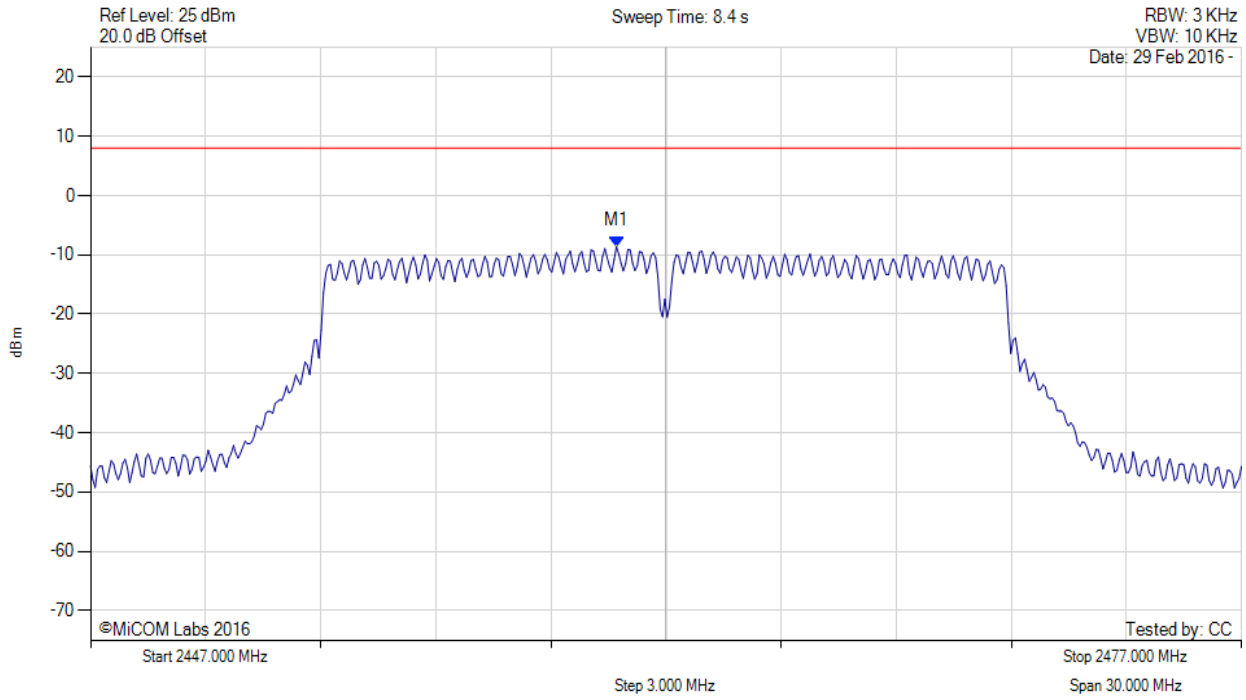
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-20, Channel: 2462.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.700 MHz : -8.578 dBm<br>M1 + DCCF : 2460.700 MHz : -8.355 dBm<br>Duty Cycle Correction Factor : +0.22 dB | Limit: ≤ 8.0 dBm<br>Margin: -16.3 dB |

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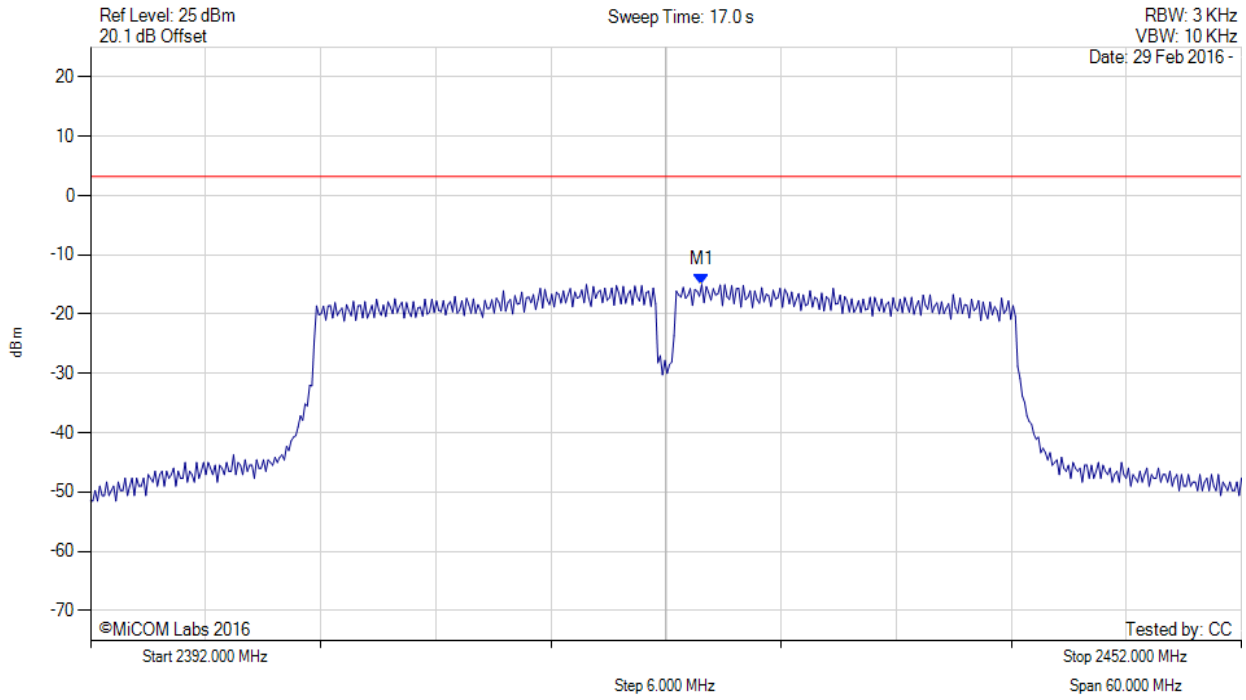
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2423.864 MHz : -15.002 dBm | Limit: ≤ 3.230 dBm |

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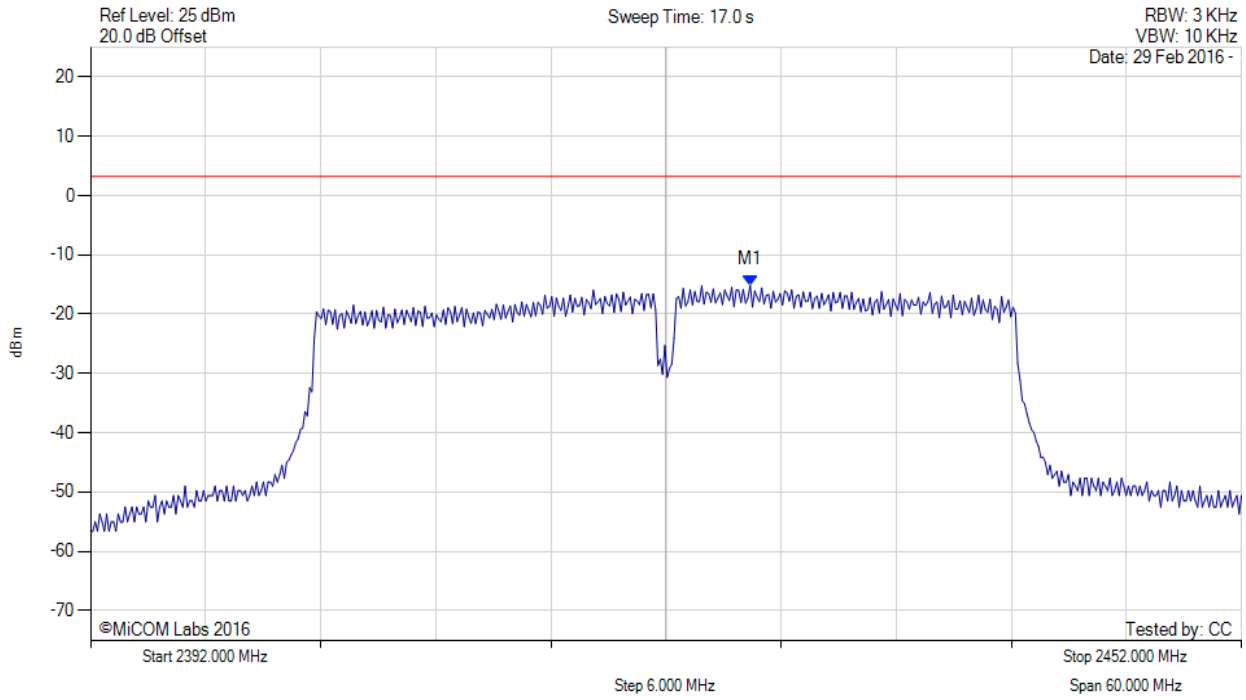
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2426.389 MHz : -15.119 dBm | Limit: ≤ 3.230 dBm |

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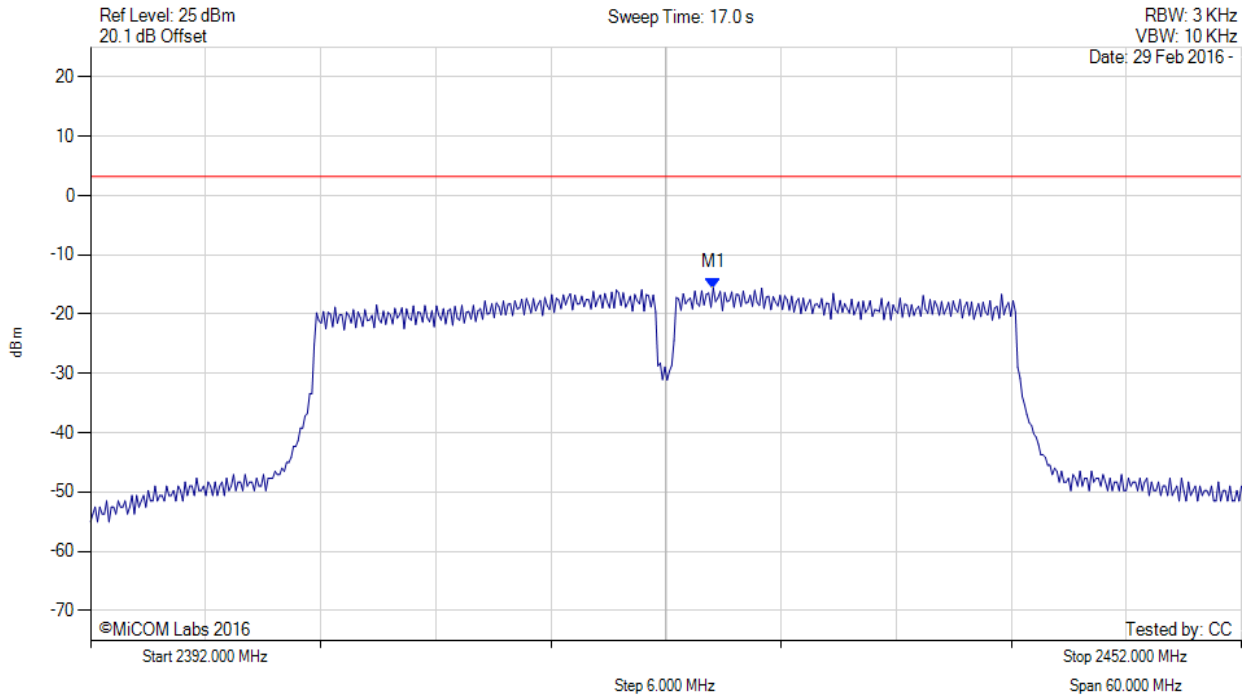
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2424.465 MHz : -15.571 dBm | Limit: ≤ 3.230 dBm |

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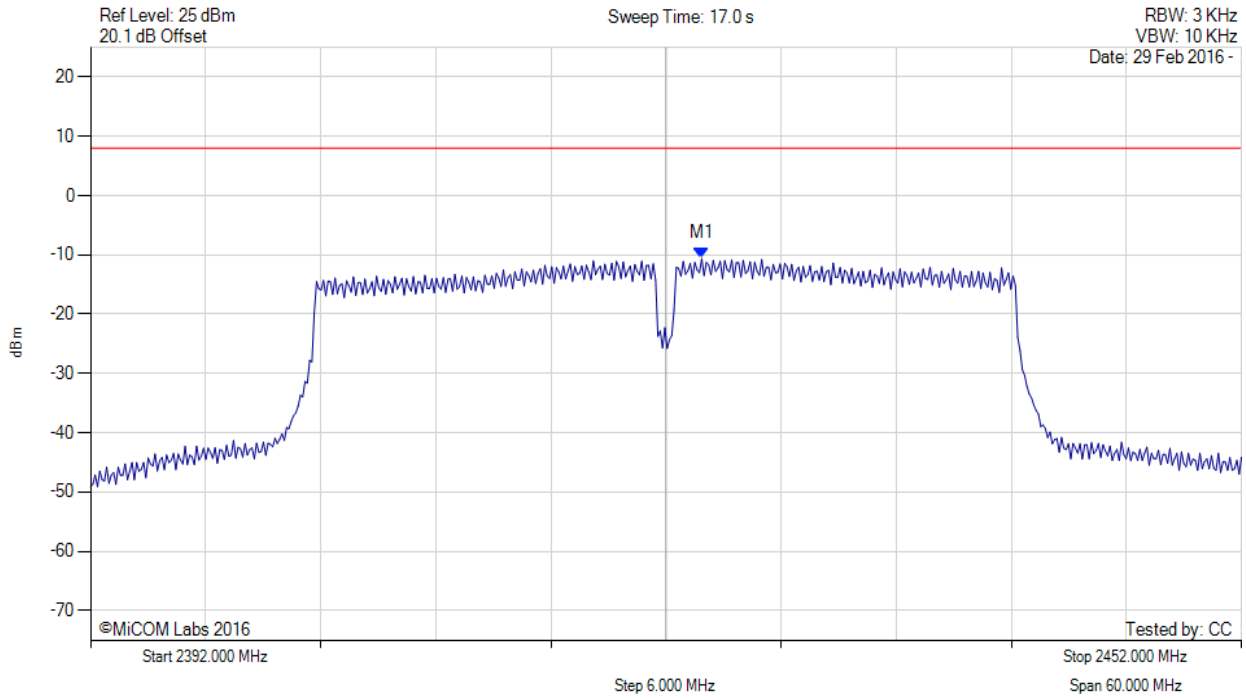
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2422.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2423.900 MHz : -10.630 dBm<br>M1 + DCCF : 2423.900 MHz : -10.586 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -18.6 dB |

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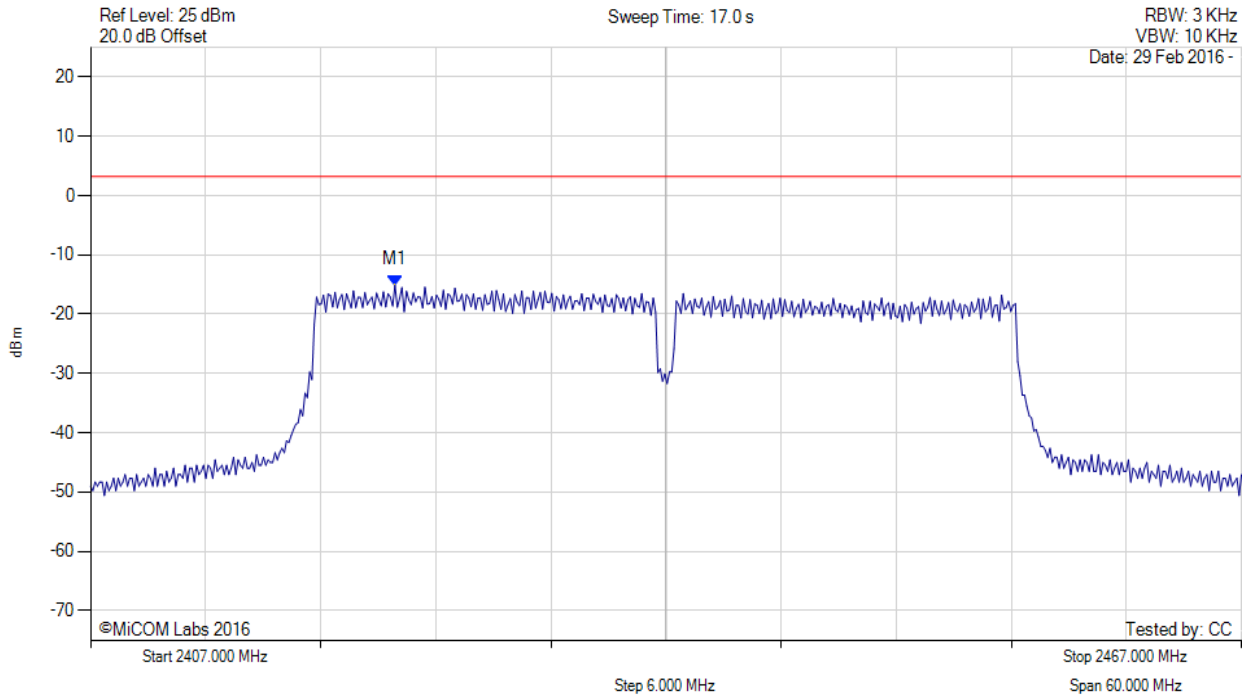
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2422.872 MHz : -15.104 dBm | Limit: ≤ 3.230 dBm |

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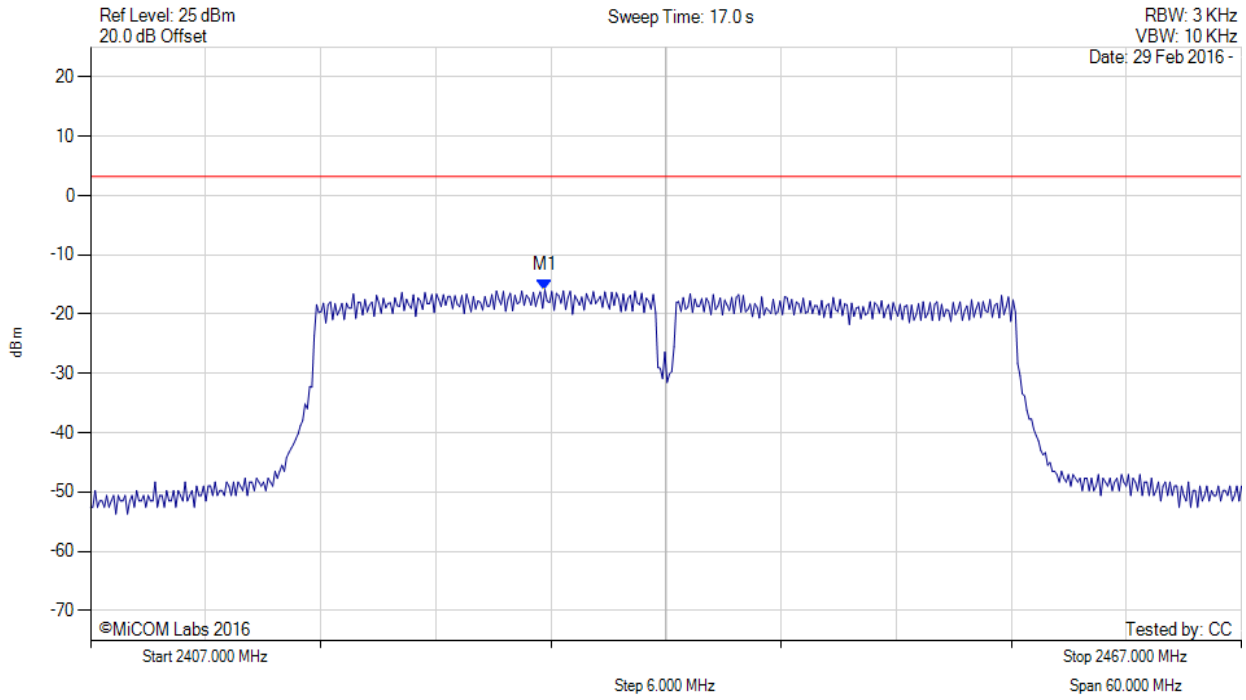
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2430.687 MHz : -15.901 dBm | Limit: ≤ 3.230 dBm |

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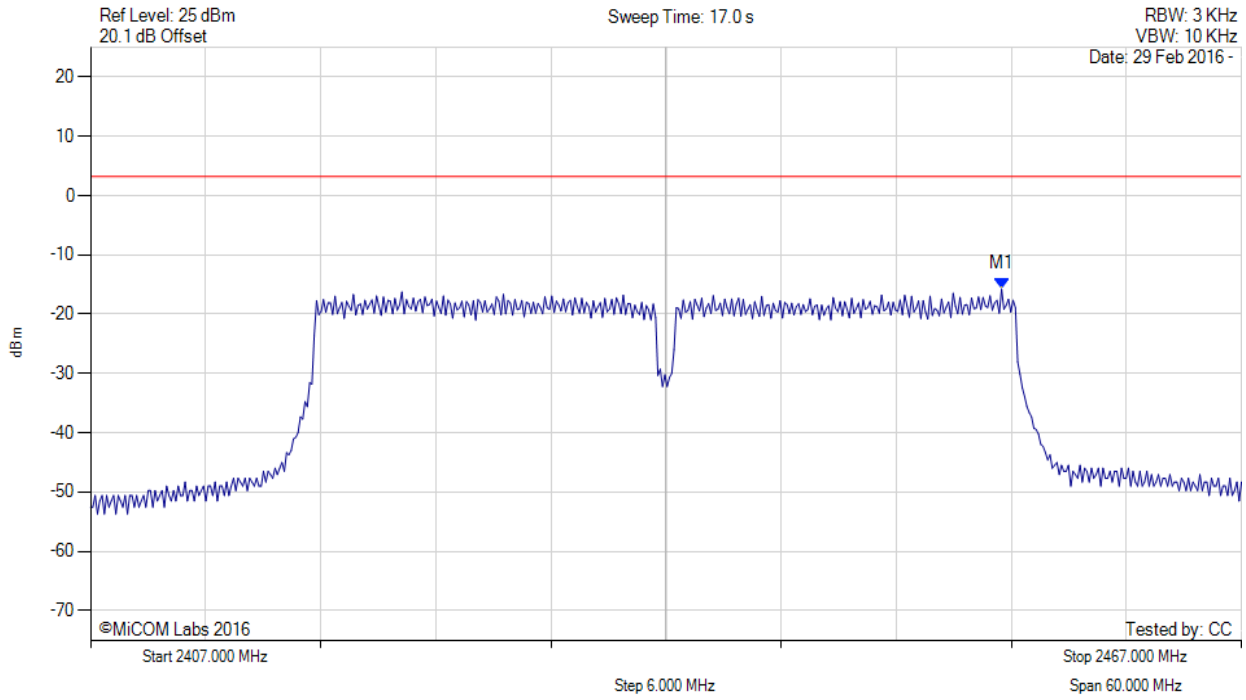
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2454.495 MHz : -15.742 dBm | Limit: ≤ 3.230 dBm |

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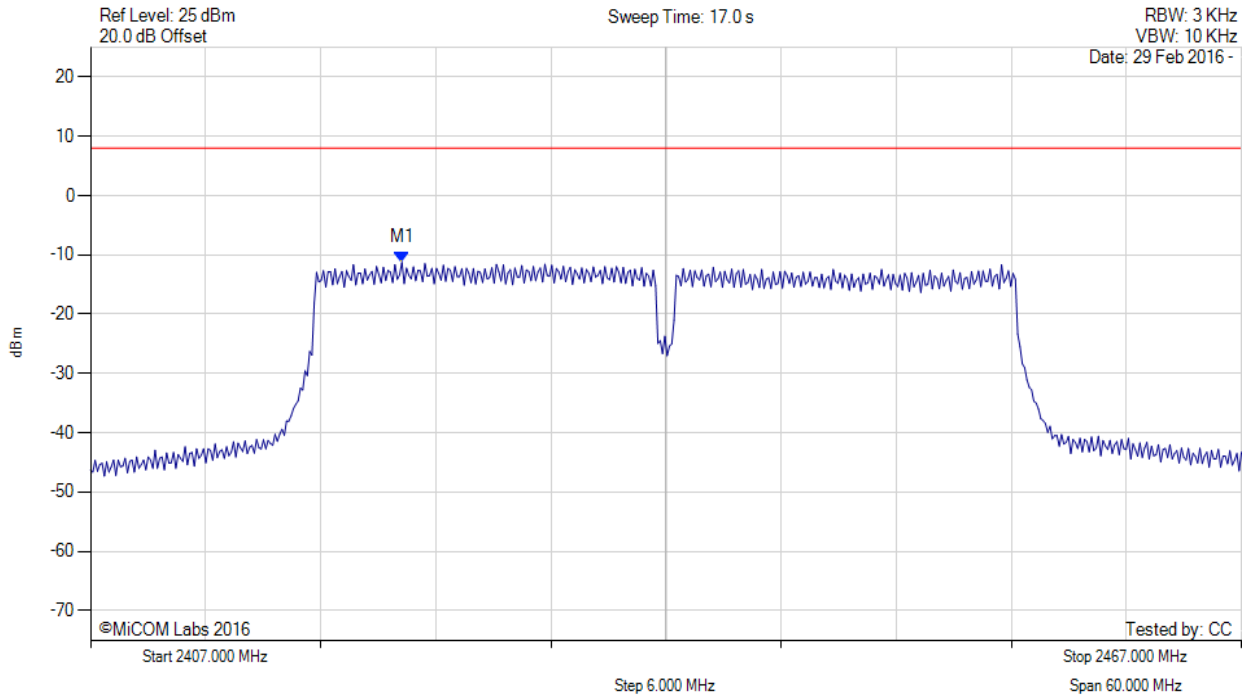
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2437.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2423.200 MHz : -11.251 dBm<br>M1 + DCCF : 2423.200 MHz : -11.207 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -19.2 dB |

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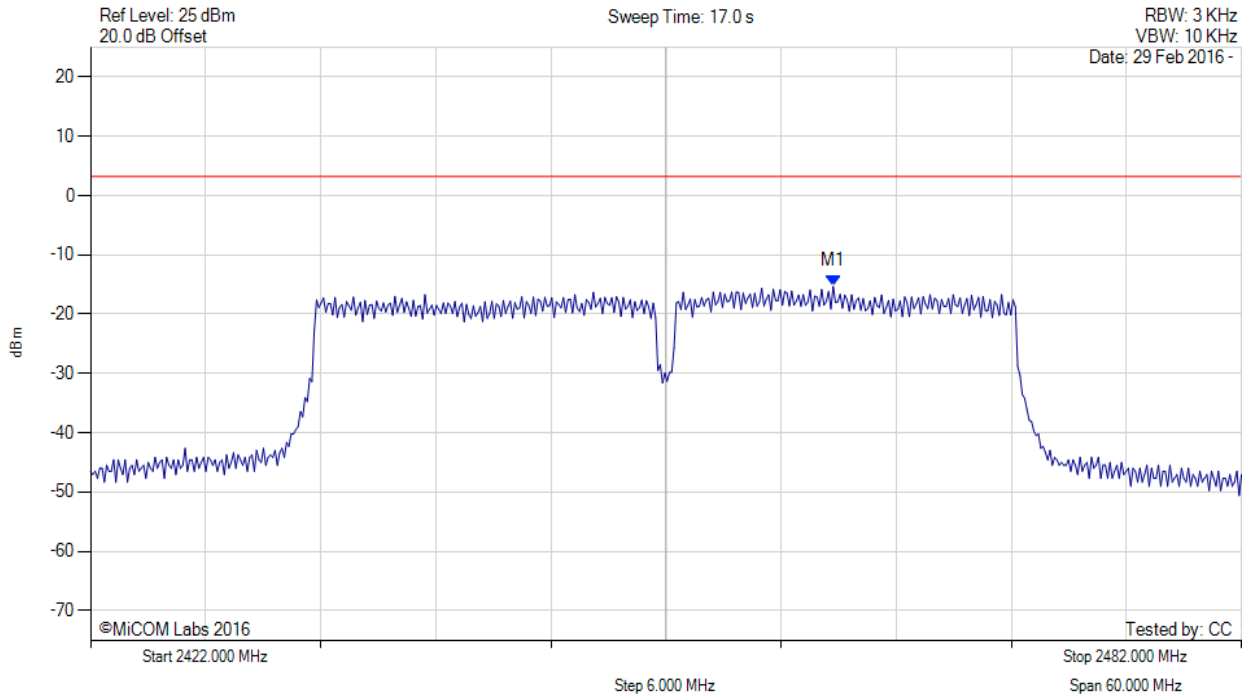
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.717 MHz : -15.327 dBm | Limit: ≤ 3.230 dBm |

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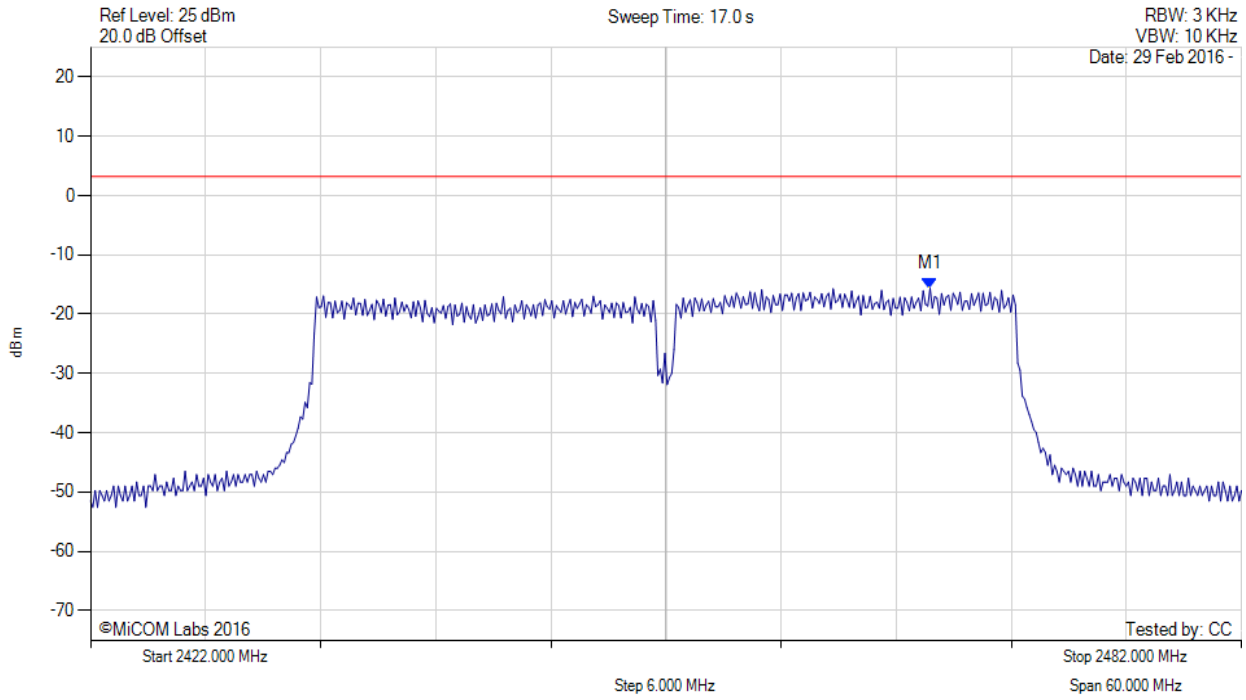
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2465.768 MHz : -15.664 dBm | Limit: ≤ 3.230 dBm |

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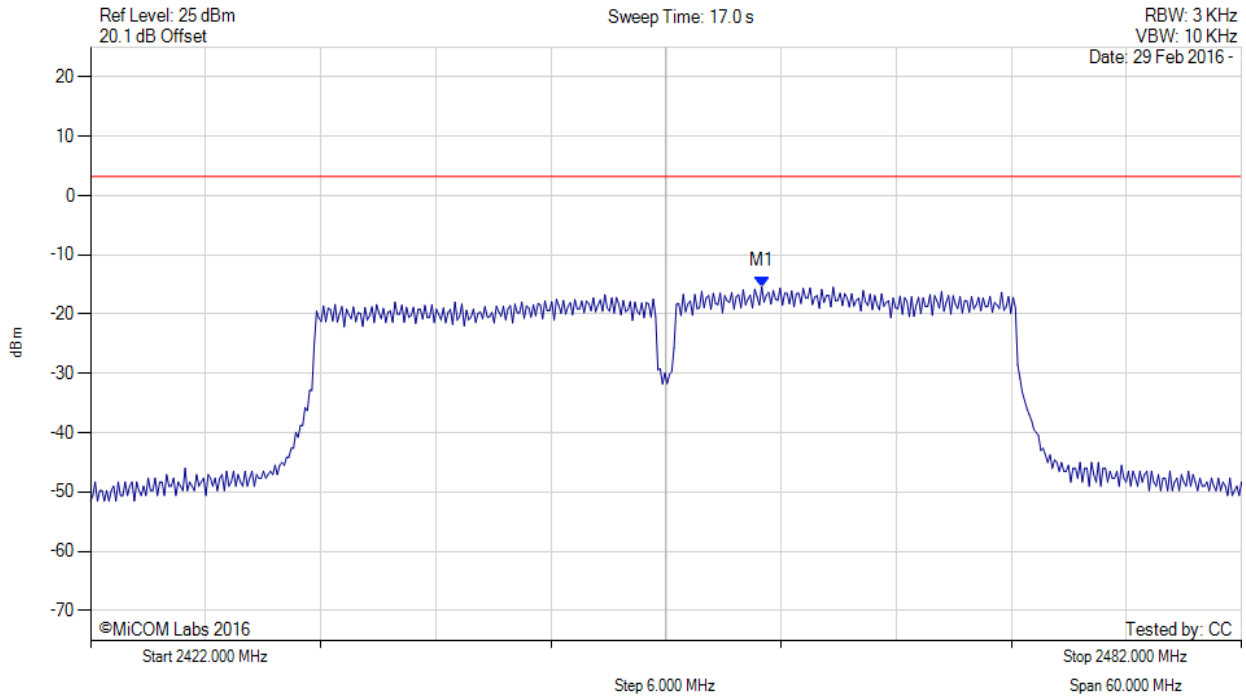
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2456.990 MHz : -15.342 dBm | Limit: ≤ 3.230 dBm |

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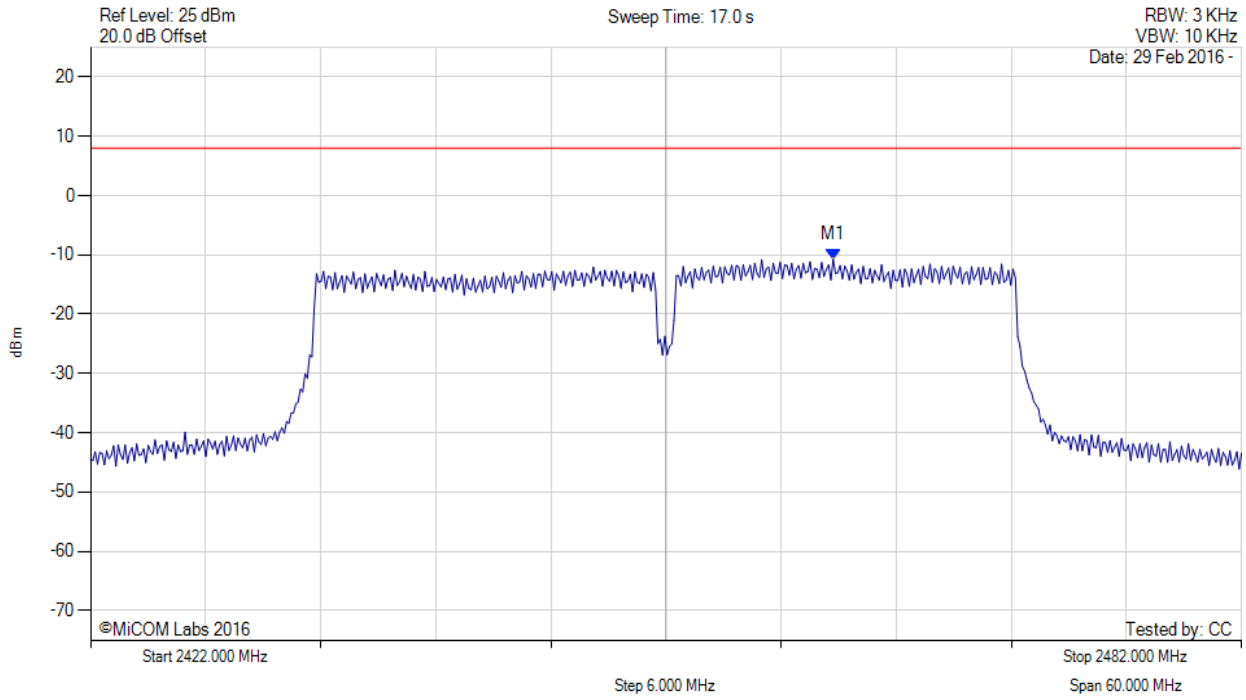
POWER SPECTRAL DENSITY - AVERAGEVariant: 802.11n HT-40, Channel: 2452.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = AVERAGE<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 2460.700 MHz : -10.726 dBm<br>M1 + DCCF : 2460.700 MHz : -10.682 dBm<br>Duty Cycle Correction Factor : +0.04 dB | Limit: ≤ 8.0 dBm<br>Margin: -18.7 dB |

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