# 1. TEST RESULTS

## 1.1. Maximum Conducted Output Power

| Conducted Test Conditions for Maximum Conducted Output Power | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.407 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | Maximum Conducted Output Power | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.407 (a)(1), (2), (3) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

**Test Procedure for Maximum Conducted Output Power Measurement**
Method PM (Measurement using an RF average power meter). KDB 789033 defines a methodology using an average wideband power meter. Measurements were made while the EUT was operating in a continuous transmission mode (100% duty cycle) at the appropriate center frequency. All operational modes and frequency bands were measured independently and the resultant calculated. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported separately. A summation (Σ) of each antenna port output power is provided which includes any offset due to Duty Cycle Correction Factor (DCCF). Testing was performed under ambient conditions at nominal voltage.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section 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 Maximum Conducted Output Power**

**Operating Frequency Band 5150-5250 MHz**

15. 407 (a)(1)
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power

spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5250-5350 and 5470 – 5725 MHz**

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5725 – 5850 MHz**

15. 407 (a)(3)
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

NOTE: All recorded power settings incorporate any reduction in output power brought about as a result of radiated spurious emissions and radiated band-edge testing.

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5180.0** | 16.22 | 13.62 | -- | -- | 18.12 | Not Applicable | 30.00 | -11.88 | 15.00 |
| **5200.0** | 18.34 | 18.18 | -- | -- | 21.27 | Not Applicable | 30.00 | -8.73 | 18.00 |
| **5240.0** | 18.23 | 18.21 | -- | -- | 21.23 | Not Applicable | 30.00 | -8.77 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5210.0** | 13.43 | 12.81 | -- | -- | 16.14 | Not Applicable | 28.10 | -11.96 | 12.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5180.0** | 15.37 | 12.70 | -- | -- | 17.25 | Not Applicable | 28.10 | -10.85 | 14.00 |
| **5200.0** | 18.40 | 16.45 | -- | -- | 20.54 | Not Applicable | 28.10 | -7.56 | 18.00 |
| **5240.0** | 18.34 | 16.55 | -- | -- | 20.55 | Not Applicable | 28.10 | -7.55 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5190.0** | 12.38 | 12.70 | -- | -- | 15.55 | Not Applicable | 28.10 | -12.55 | 11.00 |
| **5230.0** | 16.16 | 16.40 | -- | -- | 19.29 | Not Applicable | 28.10 | -8.81 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5260.0** | 16.22 | 18.22 | -- | -- | 20.34 | 30.862 | 24.00 | -3.66 | 18.00 |
| **5300.0** | 16.11 | 18.19 | -- | -- | 20.28 | 24.609 | 24.00 | -3.72 | 18.00 |
| **5320.0** | 14.93 | 11.59 | -- | -- | 16.58 | 19.960 | 24.00 | -7.42 | 13.00 |

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

| | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5290.0** | 11.41 | 9.94 | -- | -- | 13.75 | 82.405 | 22.10 | -8.35 | 9.00 |

**Traceability to Industry Recognized Test Methodologies**

| | |
|---|---|
| Work Instruction: | WI-03 MEASURING RF SPECTRUM MASK |
| Measurement Uncertainty: | |

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5260.0** | 16.26 | 18.19 | -- | -- | 20.34 | 30.301 | 22.10 | -1.76 | 18.00 |
| **5300.0** | 16.08 | 18.15 | -- | -- | 20.25 | 29.659 | 22.10 | -1.85 | 18.00 |
| **5320.0** | 16.30 | 18.12 | -- | -- | 20.31 | 20.120 | 22.10 | -1.79 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5270.0** | 16.62 | 18.58 | -- | -- | 20.72 | 72.946 | 22.10 | -1.38 | 18.00 |
| **5310.0** | 13.22 | 9.83 | -- | -- | 14.86 | 41.363 | 22.10 | -7.24 | 11.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5500.0** | 14.70 | 11.44 | -- | -- | 16.38 | 19.880 | 23.98 | -7.60 | 14.00 |
| **5580.0** | 16.91 | 18.25 | -- | -- | 20.64 | 36.072 | 24.00 | -3.36 | 18.00 |
| **5720.0** | 17.23 | 18.25 | -- | -- | 20.78 | 35.912 | 24.00 | -3.22 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5530.0** | 10.04 | 10.17 | -- | -- | 13.12 | 82.405 | 22.10 | -8.98 | 9.00 |
| **5610.0** | 17.96 | 18.39 | -- | -- | 21.19 | 196.794 | 22.10 | -0.91 | 18.00 |
| **5690.0** | 14.03 | 14.34 | -- | -- | 17.20 | 235.511 | 22.10 | -4.90 | 14.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5500.0** | 12.57 | 12.93 | -- | -- | 15.76 | 20.120 | 22.10 | -6.34 | 12.00 |
| **5580.0** | 16.97 | 18.42 | -- | -- | 20.77 | 41.162 | 22.10 | -1.33 | 18.00 |
| **5720.0** | 17.25 | 18.36 | -- | -- | 20.85 | 40.762 | 22.10 | -1.25 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5510.0** | 11.61 | 11.79 | -- | -- | 14.71 | 40.561 | 22.10 | -7.39 | 11.00 |
| **5550.0** | 16.83 | 18.26 | -- | -- | 20.61 | 85.531 | 22.10 | -1.49 | 18.00 |
| **5710.0** | 16.19 | 17.25 | -- | -- | 19.76 | 86.533 | 22.10 | -2.34 | 17.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5745.0** | 18.05 | 18.63 | -- | -- | 21.36 | Not Applicable | 30.00 | -8.64 | 18.00 |
| **5785.0** | 17.79 | 18.18 | -- | -- | 21.00 | Not Applicable | 30.00 | -9.00 | 18.00 |
| **5825.0** | 16.47 | 18.07 | -- | -- | 20.35 | Not Applicable | 30.00 | -9.65 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5775.0** | 18.07 | 18.27 | -- | -- | 21.18 | Not Applicable | 28.10 | -6.92 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5745.0** | 17.21 | 18.34 | -- | -- | 20.82 | Not Applicable | 28.10 | -7.28 | 18.00 |
| **5785.0** | 16.80 | 18.29 | -- | -- | 20.62 | Not Applicable | 28.10 | -7.48 | 18.00 |
| **5825.0** | 16.58 | 18.21 | -- | -- | 20.48 | Not Applicable | 28.10 | -7.62 | 18.00 |

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

| Equipment Configuration for Peak Transmit Power | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Conducted Output Power (dBm) Port(s) | | | | Calculated Total Power | Minimum 26 dB Bandwidth | Limit | Margin | EUT Power Setting |
|---|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Σ Port(s) dBm | MHz | dBm | dB | |
| **5755.0** | 16.90 | 18.12 | -- | -- | 20.56 | Not Applicable | 28.10 | -7.54 | 18.00 |
| **5795.0** | 16.67 | 18.13 | -- | -- | 20.47 | Not Applicable | 28.10 | -7.63 | 18.00 |

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

## 1.2. 26 dB & 99% Bandwidth

| Conducted Test Conditions for 26 dB and 99% Bandwidth | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.407 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | 26 dB and 99 % Bandwidth | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.407 (a) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

**Test Procedure for 26 dB and 99% Bandwidth Measurement**
The bandwidth at 26 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to approximately 1% of the emission bandwidth.
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 section specified in this document.

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5180.0** | 19.719 | 19.719 | -- | -- | 19.719 | 19.719 | | |
| **5200.0** | 28.778 | 25.251 | -- | -- | 28.778 | 25.251 | | |
| **5240.0** | 32.144 | 29.739 | -- | -- | 32.144 | 29.739 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5180.0** | 16.673 | 16.673 | -- | -- | 16.673 | 16.673 | | |
| **5200.0** | 16.914 | 16.914 | -- | -- | 16.914 | 16.914 | | |
| **5240.0** | 16.994 | 16.834 | -- | -- | 16.994 | 16.834 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | | |
| 5210.0 | 83.687 | 82.405 | -- | -- | 83.687 | 82.405 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | Highest | Lowest | | |
| 5210.0 | 76.633 | 76.313 | -- | -- | 76.633 | 76.313 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5180.0** | 20.120 | 20.120 | -- | -- | 20.120 | 20.120 | | |
| **5200.0** | 37.194 | 21.403 | -- | -- | 37.194 | 21.403 | | |
| **5240.0** | 21.563 | 21.563 | -- | -- | 21.563 | 21.563 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5180.0** | 17.715 | 17.715 | -- | -- | 17.715 | 17.715 | | |
| **5200.0** | 18.036 | 17.715 | -- | -- | 18.036 | 17.715 | | |
| **5240.0** | 17.796 | 17.796 | -- | -- | 17.796 | 17.796 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5190.0** | 41.202 | 40.561 | -- | -- | 41.202 | 40.561 | | |
| **5230.0** | 85.050 | 55.311 | -- | -- | 85.050 | 55.311 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5190.0** | 36.393 | 36.232 | -- | -- | 36.393 | 36.232 | | |
| **5230.0** | 38.717 | 36.393 | -- | -- | 38.717 | 36.393 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5260.0** | 41.202 | 30.862 | -- | -- | 41.202 | 30.862 | | |
| **5300.0** | 38.557 | 24.609 | -- | -- | 38.557 | 24.609 | | |
| **5320.0** | 20.361 | 19.960 | -- | -- | 20.361 | 19.960 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5260.0** | 17.796 | 16.754 | -- | -- | 17.796 | 16.754 | | |
| **5300.0** | 17.555 | 16.834 | -- | -- | 17.555 | 16.834 | | |
| **5320.0** | 16.673 | 16.673 | -- | -- | 16.673 | 16.673 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5290.0** | 82.405 | 112.224 | -- | -- | 112.224 | 82.405 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5290.0** | 76.633 | 76.313 | -- | -- | 76.633 | 76.313 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5260.0** | 41.443 | 30.301 | -- | -- | 41.443 | 30.301 | | |
| **5300.0** | 29.659 | 29.659 | -- | -- | 29.659 | 29.659 | | |
| **5320.0** | 20.120 | 20.200 | -- | -- | 20.200 | 20.120 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5260.0** | 17.916 | 16.834 | -- | -- | 17.916 | 16.834 | | |
| **5300.0** | 16.834 | 16.834 | -- | -- | 16.834 | 16.834 | | |
| **5320.0** | 17.715 | 17.715 | -- | -- | 17.715 | 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5270.0** | 75.992 | 72.946 | -- | -- | 75.992 | 72.946 | | |
| **5310.0** | 41.363 | 43.447 | -- | -- | 43.447 | 41.363 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5270.0** | 37.675 | 36.874 | -- | -- | 37.675 | 36.874 | | |
| **5310.0** | 36.393 | 36.232 | -- | -- | 36.393 | 36.232 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5500.0** | 19.880 | 20.040 | -- | -- | 20.040 | 19.880 | | |
| **5580.0** | 38.156 | 36.072 | -- | -- | 38.156 | 36.072 | | |
| **5720.0** | 38.036 | 35.912 | -- | -- | 38.036 | 35.912 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5500.0** | 16.673 | 16.673 | -- | -- | 16.673 | 16.673 | | |
| **5580.0** | 19.118 | 17.315 | -- | -- | 19.118 | 17.315 | | |
| **5720.0** | 20.321 | 17.395 | -- | -- | 20.321 | 17.395 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5530.0** | 82.405 | 82.405 | -- | -- | 82.405 | 82.405 | | |
| **5610.0** | 196.794 | 199.599 | -- | -- | 199.599 | 196.794 | | |
| **5690.0** | 151.343 | 166.253 | -- | -- | 166.253 | 151.343 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5530.0** | 76.313 | 76.313 | -- | -- | 76.313 | 76.313 | | |
| **5610.0** | 99.399 | 92.986 | -- | -- | 99.399 | 92.986 | | |
| **5690.0** | 77.435 | 76.954 | -- | -- | 77.435 | 76.954 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5500.0** | 20.120 | 20.361 | -- | -- | 20.361 | 20.120 | | |
| **5580.0** | 41.804 | 41.162 | -- | -- | 41.804 | 41.162 | | |
| **5720.0** | 42.926 | 40.762 | -- | -- | 42.926 | 40.762 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5500.0** | 17.635 | 17.715 | -- | -- | 17.715 | 17.635 | | |
| **5580.0** | 23.327 | 19.118 | -- | -- | 23.327 | 19.118 | | |
| **5720.0** | 23.086 | 19.238 | -- | -- | 23.086 | 19.238 | | |

| 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).

| Equipment Configuration for 26 dB & 99% Occupied Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 26 dB Bandwidth (MHz) Port(s) | | | | 26 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5510.0** | 42.164 | 40.561 | -- | -- | 42.164 | 40.561 | | |
| **5550.0** | 93.407 | 85.531 | -- | -- | 93.407 | 85.531 | | |
| **5710.0** | 89.659 | 86.533 | -- | -- | 89.659 | 86.533 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5510.0** | 36.553 | 36.393 | -- | -- | 36.553 | 36.393 | | |
| **5550.0** | 50.261 | 38.076 | -- | -- | 50.261 | 38.076 | | |
| **5710.0** | 51.363 | 38.677 | -- | -- | 51.363 | 38.677 | | |

| 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).

## 1.3. 6 dB & 99% Bandwidth

| Conducted Test Conditions for 6 dB and 99% Bandwidth | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.407 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | 6 dB and 99 % Bandwidth | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.407 (a) | **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 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to 100 kHz.
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 section specified in this document.

| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5745.0** | 16.353 | 16.353 | -- | -- | 16.353 | 16.353 | | |
| **5785.0** | 16.353 | 16.353 | -- | -- | 16.353 | 16.353 | | |
| **5825.0** | 16.353 | 16.353 | -- | -- | 16.353 | 16.353 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5745.0** | 17.315 | 16.513 | -- | -- | 17.315 | 16.513 | | |
| **5785.0** | 17.315 | 16.834 | -- | -- | 17.315 | 16.834 | | |
| **5825.0** | 17.154 | 16.834 | -- | -- | 17.154 | 16.834 | | |

| 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).

| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5775.0** | 75.752 | 75.752 | -- | -- | 75.752 | 75.752 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5775.0** | 90.180 | 77.355 | -- | -- | 90.180 | 77.355 | | |

| 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).

| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5745.0** | 17.555 | 17.555 | -- | -- | 17.555 | 17.555 | | |
| **5785.0** | 17.635 | 17.635 | -- | -- | 17.635 | 17.635 | | |
| **5825.0** | 17.555 | 17.555 | -- | -- | 17.555 | 17.555 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5745.0** | 19.078 | 18.036 | -- | -- | 19.078 | 18.036 | | |
| **5785.0** | 18.517 | 17.956 | -- | -- | 18.517 | 17.956 | | |
| **5825.0** | 18.357 | 18.036 | -- | -- | 18.357 | 18.036 | | |

| 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).

| Equipment Configuration for 6 dB & 99% Bandwidth | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured 6 dB Bandwidth (MHz) Port(s) | | | | 6 dB Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5755.0** | 35.591 | 35.431 | -- | -- | 35.591 | 35.431 | | |
| **5795.0** | 35.752 | 35.752 | -- | -- | 35.752 | 35.752 | | |

| Test Frequency | Measured 99% Bandwidth (MHz) Port(s) | | | | 99% Bandwidth (MHz) | | | |
|---|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **Highest** | **Lowest** | | |
| **5755.0** | 37.355 | 36.713 | -- | -- | 37.355 | 36.713 | | |
| **5795.0** | 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 |

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

## 1.4. Power Spectral Density

| Conducted Test Conditions for Power Spectral Density | | | |
|---|---|---|---|
| **Standard:** | FCC CFR 47:15.407 | **Ambient Temp. (ºC):** | 24.0 - 27.5 |
| **Test Heading:** | Power Spectral Density | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | 15.407 (a) | **Pressure (mBars):** | 999 - 1001 |
| **Reference Document(s):** | See Normative References | | |

**Test Procedure for Power Spectral Density**
The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used 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.

Test configuration and setup used for the measurement was per the Conducted Test Set-up section 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 spectrum in some 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**

**Operating Frequency Band 5150-5250 MHz**

15. 407 (a)(1)
(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any

corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5250-5350 and 5470 – 5725 MHz**

15. 407 (a)(2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Operating Frequency Band 5725 – 5850 MHz**

15. 407 (a)(3)
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5180.0** | 2.242 | -1.566 | -- | -- | 3.795 | 17.0 | -13.2 |
| **5200.0** | 4.152 | 4.047 | -- | -- | 7.179 | 17.0 | -9.8 |
| **5240.0** | 4.110 | 4.037 | -- | -- | 7.159 | 17.0 | -9.9 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.56 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5210.0** | -7.631 | -8.115 | -- | -- | -4.381 | 15.1 | -19.5 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5180.0** | 1.074 | -1.652 | -- | -- | 3.008 | 15.1 | -12.1 |
| **5200.0** | 4.000 | 2.080 | -- | -- | 6.196 | 15.1 | -8.9 |
| **5240.0** | 4.005 | 2.212 | -- | -- | 6.275 | 15.1 | -8.8 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5190.0** | -4.890 | -4.522 | -- | -- | -1.619 | 15.1 | -16.7 |
| **5230.0** | -0.886 | -0.853 | -- | -- | 2.217 | 15.1 | -12.9 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5260.0** | 1.768 | 3.929 | -- | -- | 6.069 | 11.0 | -4.9 |
| **5300.0** | 1.679 | 3.903 | -- | -- | 6.012 | 11.0 | -5.0 |
| **5320.0** | 0.709 | -2.624 | -- | -- | 2.394 | 11.0 | -8.6 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.56 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5290.0** | -10.181 | -11.284 | -- | -- | -7.275 | 9.1 | -16.4 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5260.0** | 1.875 | 3.812 | -- | -- | 6.018 | 9.1 | -3.1 |
| **5300.0** | 1.744 | 3.890 | -- | -- | 6.002 | 9.1 | -3.1 |
| **5320.0** | -0.320 | -4.724 | -- | -- | 1.096 | 9.1 | -8.0 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5270.0** | 0.114 | 2.023 | -- | -- | 4.222 | 9.1 | -4.9 |
| **5310.0** | -4.252 | -7.772 | -- | -- | -2.632 | 9.1 | -11.7 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5500.0** | 0.395 | -3.211 | -- | -- | 2.053 | 11.0 | -9.0 |
| **5580.0** | 2.716 | 3.826 | -- | -- | 6.363 | 11.0 | -4.6 |
| **5720.0** | 2.985 | 3.580 | -- | -- | 6.350 | 11.0 | -4.7 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 88.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.56 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5530.0** | -12.007 | -11.498 | -- | -- | -8.358 | 9.1 | -17.5 |
| **5610.0** | -3.371 | -2.744 | -- | -- | 0.387 | 9.1 | -8.7 |
| **5690.0** | -3.542 | -3.018 | -- | -- | 0.166 | 9.1 | -8.9 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5500.0** | -1.916 | -1.870 | -- | -- | 1.200 | 9.1 | -7.9 |
| **5580.0** | 2.798 | 3.883 | -- | -- | 6.441 | 9.1 | -2.7 |
| **5720.0** | 2.807 | 3.605 | -- | -- | 6.251 | 9.1 | -2.9 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/MHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/MHz** | **dBm/MHz** | **dB** |
| **5510.0** | -6.294 | -6.593 | -- | -- | -3.416 | 9.1 | -12.5 |
| **5550.0** | 0.125 | 1.076 | -- | -- | 3.725 | 9.1 | -5.4 |
| **5710.0** | 0.482 | 0.705 | -- | -- | 3.621 | 9.1 | -5.5 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11a | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.00 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | Not Applicable |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/500 KHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/500 KHz** | **dBm/500 KHz** | **dB** |
| **5745.0** | 0.743 | -6.955 | -- | -- | 1.488 | 30.0 | -28.5 |
| **5785.0** | 0.404 | 0.811 | -- | -- | 3.711 | 30.0 | -26.3 |
| **5825.0** | -0.953 | 0.538 | -- | -- | 2.931 | 30.0 | -27.1 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11ac-80 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 29.30 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/500 KHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/500 KHz** | **dBm/500 KHz** | **dB** |
| **5775.0** | -7.018 | -5.451 | -- | -- | 0.075 | 28.1 | -28.0 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-20 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 6.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/500 KHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| MHz | a | b | c | d | dBm/500 KHz | dBm/500 KHz | dB |
| 5745.0 | -0.538 | 0.776 | -- | -- | 3.267 | 28.1 | -24.8 |
| 5785.0 | -0.897 | 0.600 | -- | -- | 2.965 | 28.1 | -25.1 |
| 5825.0 | -1.137 | 0.412 | -- | -- | 2.732 | 28.1 | -25.4 |

| 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).

| Equipment Configuration for Power Spectral Density | | | |
|---|---|---|---|
| **Variant:** | 802.11n HT-40 | **Duty Cycle (%):** | 98.0 |
| **Data Rate:** | 13.50 MBit/s | **Antenna Gain (dBi):** | 4.90 |
| **Modulation:** | OFDM | **Beam Forming Gain (Y)(dB):** | 3.00 |
| **TPC:** | Not Applicable | **Tested By:** | GMH |
| **Engineering Test Notes:** | Mac Address 204C0380E4BE | | |

**Test Measurement Results**

| Test Frequency | Measured Power Spectral Density Port(s) (dBm/500 KHz) | | | | Summation Peak Marker + DCCF (+0.09 dB) | Limit | Margin |
|---|---|---|---|---|---|---|---|
| **MHz** | **a** | **b** | **c** | **d** | **dBm/500 KHz** | **dBm/500 KHz** | **dB** |
| **5755.0** | -3.331 | -1.869 | -- | -- | 0.486 | 28.1 | -27.6 |
| **5795.0** | -3.940 | -2.196 | -- | -- | 0.037 | 28.1 | -28.1 |

| 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).

## 1.5. Frequency Stability

**Test Procedure**
The manufacturer of the equipment is responsible for ensuring that the frequency stability is such that emissions are always maintained within the band of operation under all conditions.

**Manufacturer Declaration**
The frequency stability of the reference oscillator sets the frequency stability of the RF transceiver signals. Therefore, all RF signals should have better than ±20ppm stability.
This stability accounts for room temperature tolerance of the crystal oscillator circuit, frequency variation across temperature, and crystal ageing.

±20ppm at 5.250 GHz translates to a maximum frequency shift of ±105 KHz. As the channel band-edge is at least 1 MHz from either of the band edges, ±105 KHz is more than sufficient to guarantee that the intentional emission will remain in the band over the entire operating range of the EUT.

## Specification

## Limits

| |
|---|
| **§15.407 (g)** Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual. |

## 1.6. Dynamic Frequency Selection (DFS)

| Test Conditions for Dynamic Frequency Selection (DFS) | | | |
|---|---|---|---|
| **Standard:** | FCC 15.407 | **Ambient Temp. (ºC):** | 20.0 - 24.5 |
| **Test Heading:** | Dynamic Frequency Selection (DFS) | **Rel. Humidity (%):** | 32 - 45 |
| **Standard Section(s):** | KDB 905462 | **Pressure (mBars):** | 999 - 1001 |
| **EUT Type:** | Slave w/ Radar Detection | **Frequency Bands:** | 5,250 – 5,350 MHz<br>5,470 – 5,725 MHz |
| **Test Environment:** | Radiated | **Antenna Gain used for Testing:** | 0 dBi |
| **Detection Threshold:** | n/a | **Test Radar Level: (Threshold + Gain)** | n/a |
| **Number of Antenna Chains:** | 2 | **Duty Cycle Target:** | ≥ 30.00% |
| **802.11a Transmit Power:** | +15 dBm | **Minimum Data Rate:** | 6 Mbit/s |
| **802.11ac-80 Transmit Power:** | +15 dBm | **Minimum Data Rate:** | MCS0 |
| **Uniform Loading:** | For the above frequency band(s) the manufacturer declared that the device provides an aggregate uniform loading of the spectrum across all devices by selecting an operating channel among the available channels using a random algorithm. | | |
| **Communication Method:** | The requisite MPEG video file (“TestFile.mpg” available on the NTIA website at the following link http://ntiacsd.ntia.doc.gov/dfs/) is used during this video stream. | | |
| **Engineer Notes:** | | | |
| **Reference Document(s):** | See Normative References | | |

### Client Devices

a) A Client Device will not transmit before having received appropriate control signals from a Master Device.

b) A Client Device will stop all its transmissions whenever instructed by a Master Device to which it is associated and will meet the Channel Move Time and Channel Closing Transmission Time requirements. The Client Device will not resume any transmissions until it has again received control signals from a Master Device.

c) If a Client Device is performing In-Service Monitoring and detects a Radar Waveform above the DFS Detection Threshold, it will inform the Master Device. This is equivalent to the Master Device detecting the Radar Waveform and d) through f) of section 5.1.1 apply.

d) Irrespective of Client Device or Master Device detection the Channel Move Time and Channel Closing Transmission Time requirements remain the same.

e) The client test frequency must be monitored to ensure no transmission of any type has occurred for 30 minutes. Note: If the client moves with the master, the device is considered compliant if nothing appears in the client non-occupancy period test. For devices that shutdown (rather than moving channels), no beacons should appear.

### 1.6.1. DFS Detection Thresholds

The table below provides the DFS Detection Thresholds for Master Devices as well as Client Devices incorporating In-Service Monitoring.

**DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection**

| Maximum Transmit Power | Value (see Notes 1, 2 and 3) |
|---|---|
| EIRP ≥ 200 milliwatt | -64 dBm |
| EIRP > 200 milliwatt and power density <10 dBm/MHz | -62 dBm |
| EIRP > 200 milliwatt that do not meet the power spectral density requirement | -64 dBm |

**NOTE 1:** This is the level at the input of the receiver assuming a 0 dBi receive antenna

**NOTE 2:** Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

**NOTE 3:** EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

### 1.6.2. Response Requirements

The following table provides the response requirements for Master and Client Devices incorporating DFS.

**DFS Response Requirement Values**

| Parameter | Value |
|---|---|
| Non-Occupancy Period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds, see NOTE 1 |
| Channel Closing Transmission Time | 200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period, see NOTES 1 and 2 |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission power bandwidth, see NOTE 3 |

**NOTE 1:** Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

**NOTE 2:** The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

**NOTE 3:** During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

### 1.6.3. Radar Test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

#### 1.6.3.1. Short Radar Pulses

**Short Pulse Radar Test Waveforms**

| Radar Type | Pulse Width (μS) | PRI (μS) | Number of Pulses | Minimum Percentage of Successful Detection | Minimum Number of Trials |
|---|---|---|---|---|---|
| 0 | 1 | 1428 | 18 | See Note 1 | See Note 1 |
| 1 | 1 | Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a | $\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{\text{PRI}_{\mu\text{sec}}}\right)\right\}$ | 60% | 30 |
| | | Test B: 15 unique PRI values randomly selected in the range 518-3066 μS, with a minimum increment of 1 μS, excluding PRI values selected in Test A | | | |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |

Note 1: Short Radar Pulse Type 0 should be used for the Detection Bandwidth test, Channel Move Time and Channel Closing Time tests

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

### 1.6.3.2. Long Radar Pulse Test

**Long Pulse Radar Test Waveforms**

| Radar Type | Pulse Width (µsec) | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|---|---|---|---|---|---|---|---|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

The parameters for this waveform are randomly chosen. Thirty unique waveforms are required for the Long Pulse radar test signal. If more than 30 waveforms are used for the Long Pulse radar test signal, then each additional waveform must also be unique and not repeated from the previous waveforms.

Each waveform is defined as follows:

1. The transmission period for the Long Pulse Radar test signal is 12 seconds.

2. There are a total of 8 to 20 Bursts in the 12 second period, with the number of Bursts being randomly chosen. This number is Burst Count.

3. Each Burst consists of 1 to 3 pulses, with the number of pulses being randomly chosen. Each Burst within the 12 second sequence may have a different number of pulses.

4. The pulse width is between 50 and 100 microseconds, with the pulse width being randomly chosen. Each pulse within a Burst will have the same pulse width. Pulses in different Bursts may have different pulse widths.

5. Each pulse has a linear FM chirp between 5 and 20 MHz, with the chirp width being randomly chosen. Each pulse within a Burst will have the same chirp width. Pulses in different Bursts may have different chirp widths. The chirp is centered on the pulse. For example, with a radar frequency of 5300 MHz and a 20 MHz chirped signal, the chirp starts at 5290 MHz and ends at 5310 MHz.

6. If more than one pulse is present in a Burst, the time between the pulses will be between 1000 and 2000 microseconds, with the time being randomly chosen. If three pulses are present in a Burst, the time between the first and second pulses is chosen independently of the time between the second and third pulses.

7. The 12 second transmission period is divided into even intervals. The number of intervals is equal to Burst_Count. Each interval is of length (12,000,000 / Burst_Count) microseconds. Each interval contains one Burst. The start time for the Burst, relative to the beginning of the interval, is between 1 and [(12,000,000 / Burst_Count) – (Total Burst Length) + (One Random PRI Interval)] microseconds, with the start time being randomly chosen. The step interval for the start time is 1 microsecond. The start time for each Burst is chosen independently.

**A representative example of a Long Pulse radar test waveform:**

1. The total test signal length is 12 seconds.

2. 8 Bursts are randomly generated for the Burst_Count

3. Burst 1 has 2 randomly generated pulses.

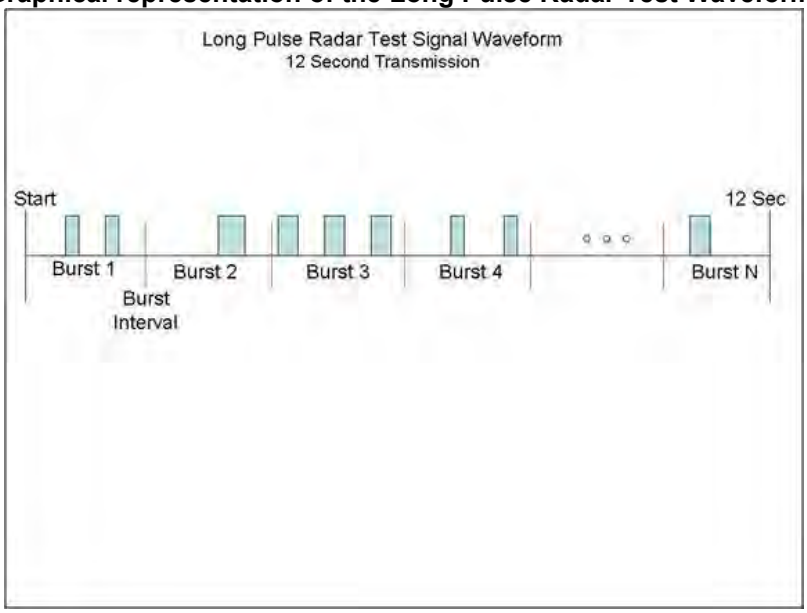
4. The pulse width (for both pulses) is randomly selected to be 75 microseconds.

5. The PRI is randomly selected to be at 1213 microseconds.

6. Bursts 2 through 8 are generated using steps 3 – 5.

7. Each Burst is contained in even intervals of 1,500,000 microseconds. The starting location for Pulse 1, Burst 1 is randomly generated (1 to 1,500,000 minus the total Burst 1 length + 1 random PRI interval) at the 325,001 microsecond step. Bursts 2 through 8 randomly fall in successive 1,500,000 microsecond intervals (i.e. Burst 2 falls in the 1,500,001 – 3,000,000 microsecond range).

**Graphical representation of the Long Pulse Radar Test Waveform.**



#### 1.6.3.3. Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Trials |
|---|---|---|---|---|---|---|---|
| 6 | 1 | 333 | 9 | .333 | 300 | 70% | 30 |

For the Frequency Hopping Radar Type, the same Burst parameters are used for each waveform. The hopping sequence is different for each waveform and a 100-length segment is selected from the hopping sequence defined by the following algorithm:

The first frequency in a hopping sequence is selected randomly from the group of 475 integer frequencies from 5250 – 5724 MHz. Next, the frequency that was just chosen is removed from the group and a frequency is randomly selected from the remaining 474 frequencies in the group. This process continues until all 475 frequencies are chosen for the set. For selection of a random frequency, the frequencies remaining within the group are always treated as equally likely.

### 1.6.4. Radar Waveform Calibration

The following equipment setup was used to calibrate the Radar Waveform. A spectrum analyzer was used to establish the test signal level for each radar type. During this process there were no transmissions by either the Master or Client Device. The spectrum analyzer was switched to the zero span (Time Domain) mode at the frequency of the Radar Waveform generator. Peak detection was utilized. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz.

The signal generator amplitude was set so that the power level measured at the spectrum analyzer was equal to the DFS detection threshold +1dB (Ref Section 9.2).

### 1.6.5. Channel Close / Transmission Time

The steps below define the procedure to determine the above-mentioned parameters when a radar burst with a level of up to 10 dB above the DFS Detection threshold is injected on the Operating Channel of the EUT.

Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Compare the Channel Move Time and Channel Closing Transmission Time results to the limits defined in the DFS Response requirement values table.

**Channel Closing Transmission Time - Measurement**
The reference radar signature was introduced to the EUT, from which a 11 second transmission record was captured, as well as 1000ms of pre-trigger data. The Reference radar type was triggered to play at the exact time allowing the end of the pulse to occur at time t=0.

The system was setup to capture data for all transmission events above a given threshold level as determined and adjusted by the test engineer. The system time stamps all captured events with respect to T0 (zero time indicating the start of the measurement sequence) starting at the end of the radar pulse indicated by the purple vertical marker line in the Plot (on the next page).

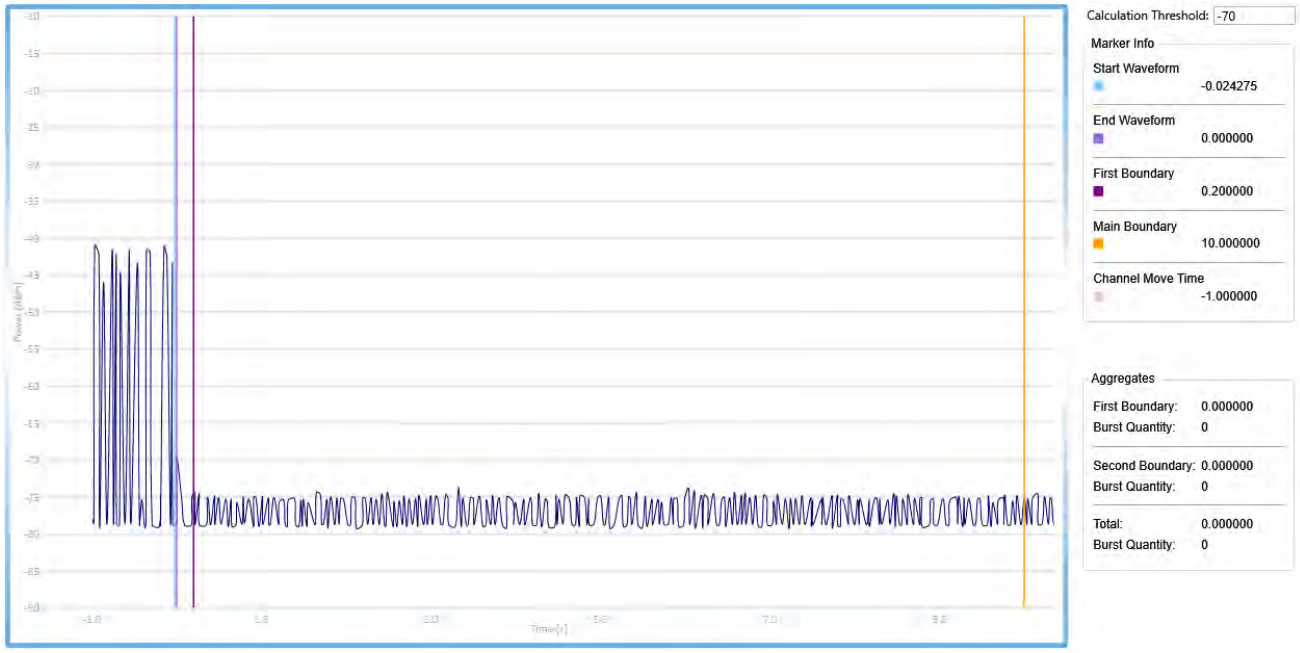
The system captured data over a 12 second period at 10 points per microsecond. The data is analyzed by counting all “bursts” that occur above the threshold limit and aggregating the time each burst is on. The data is then compressed for presentation in one 12 second segment showing all of the activity recorded over the period.

**802.11ac-80 Channel 5530 MHz; Observed Frequency 5500 MHz**

The system measures and aggregates the pulses occurring after the end of the radar pulse to determine the following parameters: -

| Test Heading | Time (Secs) | Limit (Secs) | Status |
|---|---|---|---|
| Channel Closing Transmission Time | 0.000000 | 0.260 | Complies |
| Channel Move Time | 0.000000 | 10.0 | Complies |

**Channel Move Time, Channel Closing Transmission Time**
**0-12 Second Capture**



### 1.6.6. Non-Occupancy Period

The EUT is monitored for more than 30 minutes following the channel close/move time to verify no transmissions resume on this Channel.

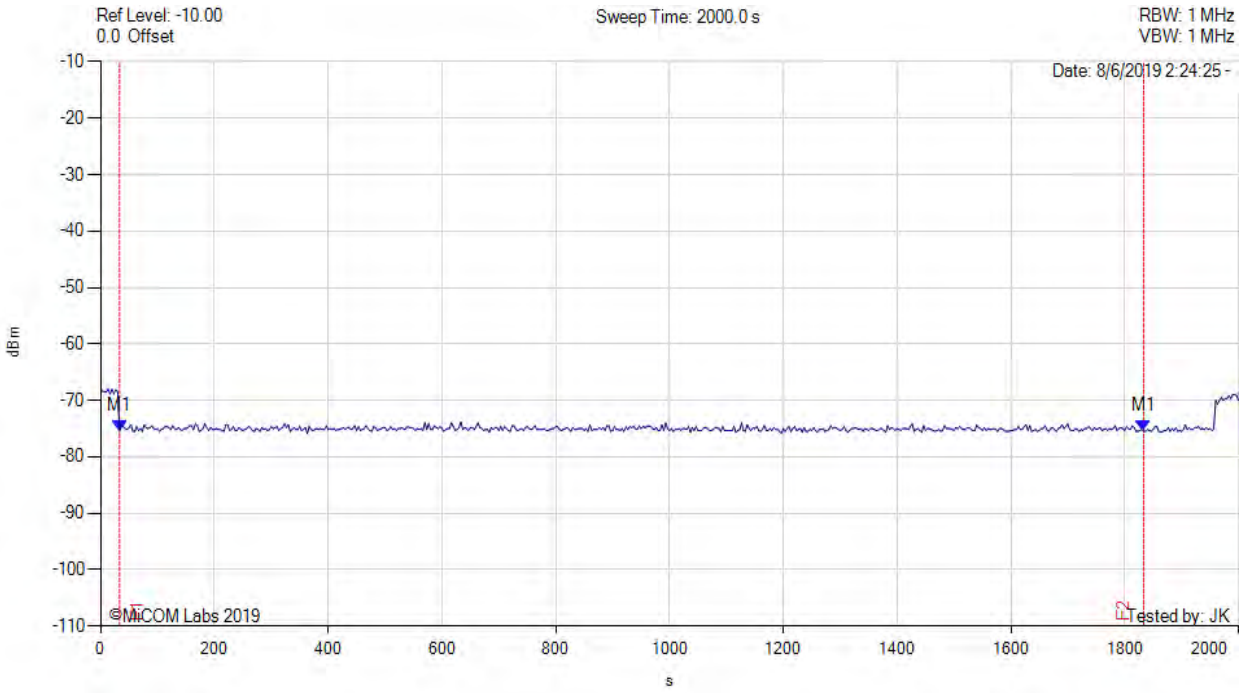
The device when triggered by the radar signature vacates the channel for a minimum period of 30 minutes per the standard. During this period the device can (assuming compliance to full DFS regulations) move to another frequency channel. It could also remain on the same channel and if this is the case the transmitter must remain muted for a period of 30 minutes.

If the transmitter has moved to another channel it cannot return and transmit on the original channel for an elapsed period of 30 minutes.

In the measured plots the period between the vertical frequency lines F1 and F2 = 30 minutes and therefore no EUT transmissions should occur between these two markers.

NON-OCCUPANCY PERIOD

Variant: 802.11ac-80, Channel: 5530.00 MHz, Data Rate: MCS0, Duty Cycle: 30.00%, Antenna Gain: 4.90 dBi



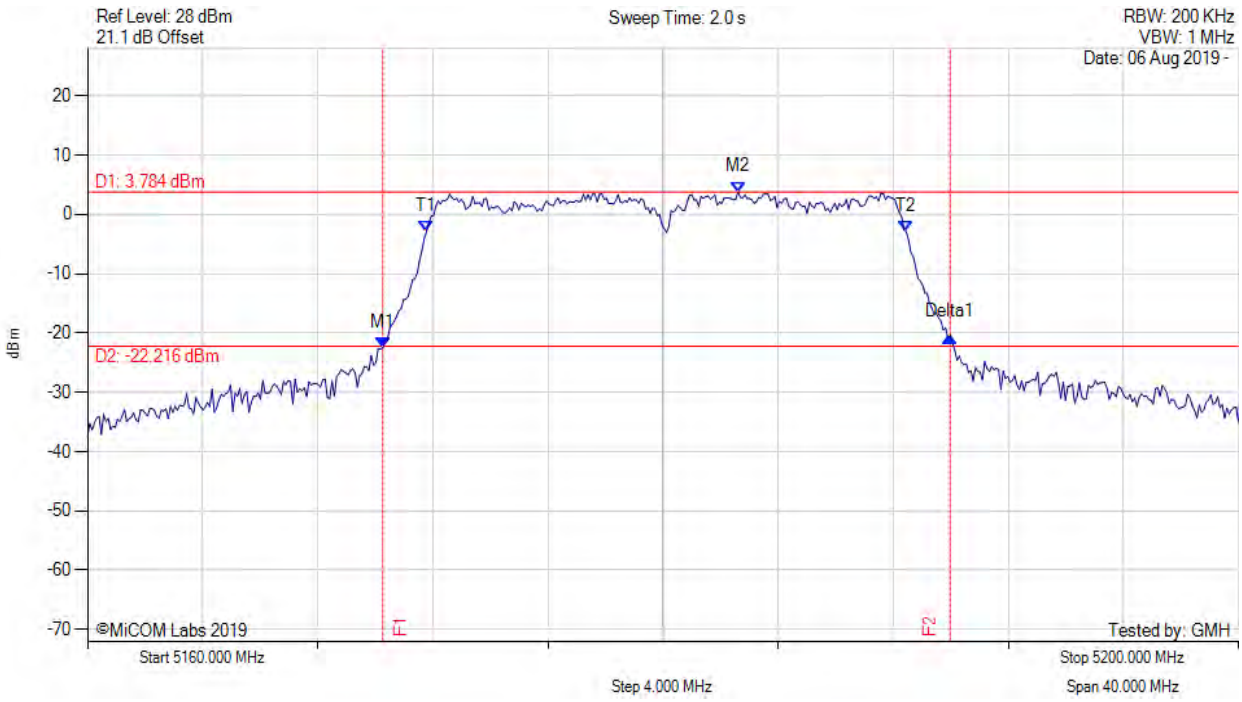

| Analyzer Setup | Marker:Time:Amplitude | Test Results |
|---|---|---|
| Detector = POS<br>Sweep Count = View<br>RF Atten (dB) = 0<br>Trace Mode = 0 | M1 : 33.333 s : -75.330 dBm<br>M1 : 1833.333 s : -75.500 dBm | Observed Frequency: 5500.00 MHz<br>F2 – F1 = 1833.333 s – 33.333 s = 1800 s |

# A. APPENDIX - GRAPHICAL IMAGES

## A.1. 26 dB & 99% Bandwidth

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

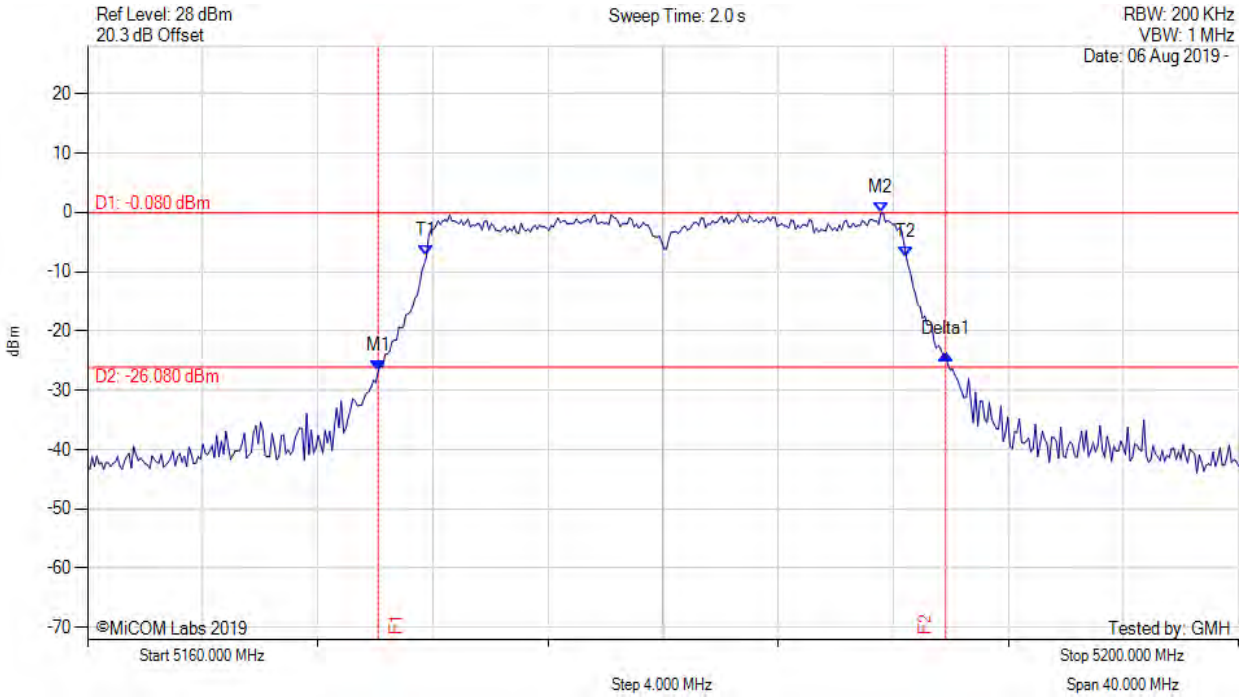



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5170.261 MHz : -22.530 dBm<br>M2 : 5182.605 MHz : 3.784 dBm<br>Delta1 : 19.719 MHz : 1.928 dB<br>T1 : 5171.784 MHz : -2.911 dBm<br>T2 : 5188.457 MHz : -2.945 dBm<br>OBW : 16.673 MHz | Channel Frequency: 5180.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

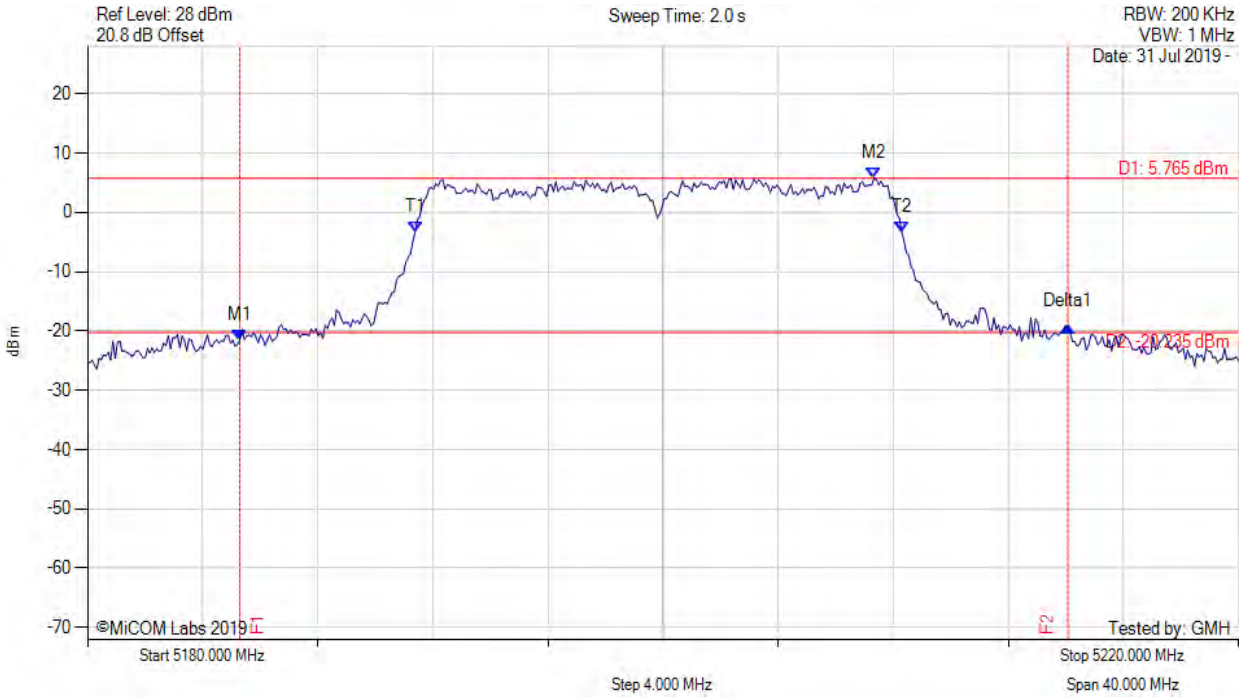



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5170.100 MHz : -26.759 dBm<br>M2 : 5187.575 MHz : -0.080 dBm<br>Delta1 : 19.719 MHz : 2.890 dB<br>T1 : 5171.784 MHz : -7.369 dBm<br>T2 : 5188.457 MHz : -7.595 dBm<br>OBW : 16.673 MHz | Channel Frequency: 5180.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

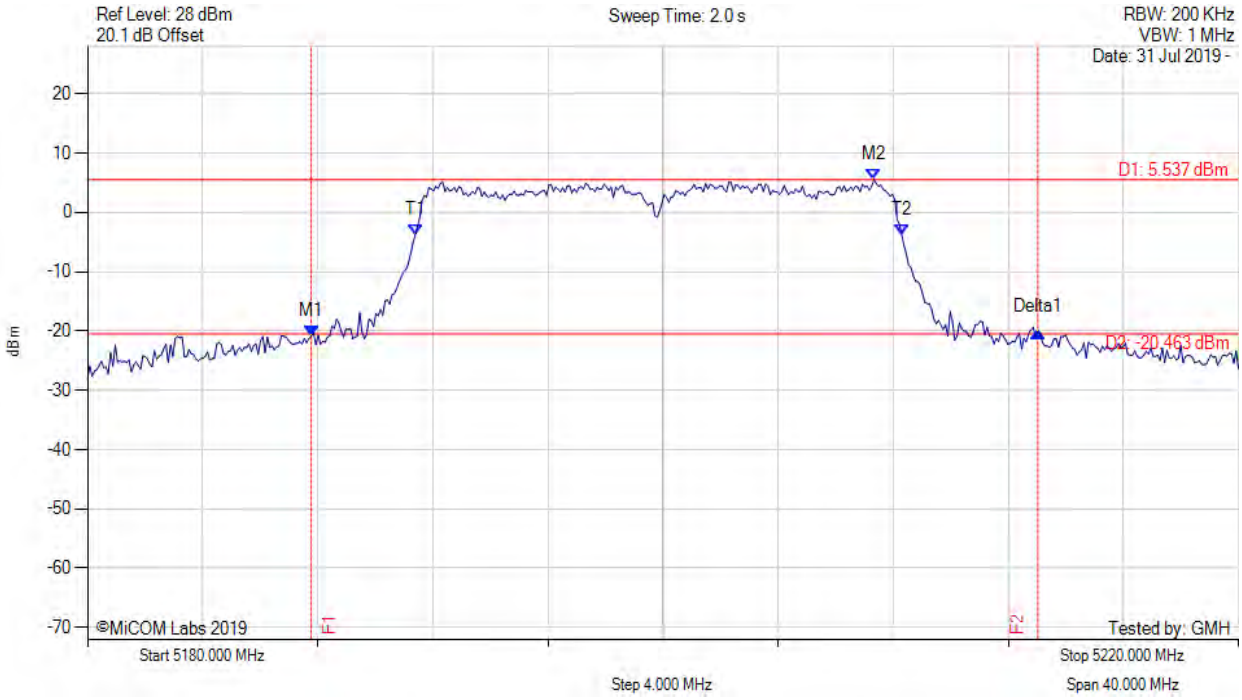



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5185.291 MHz : -21.479 dBm<br>M2 : 5207.335 MHz : 5.765 dBm<br>Delta1 : 28.778 MHz : 2.182 dB<br>T1 : 5191.383 MHz : -3.328 dBm<br>T2 : 5208.297 MHz : -3.377 dBm<br>OBW : 16.914 MHz | Channel Frequency: 5200.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

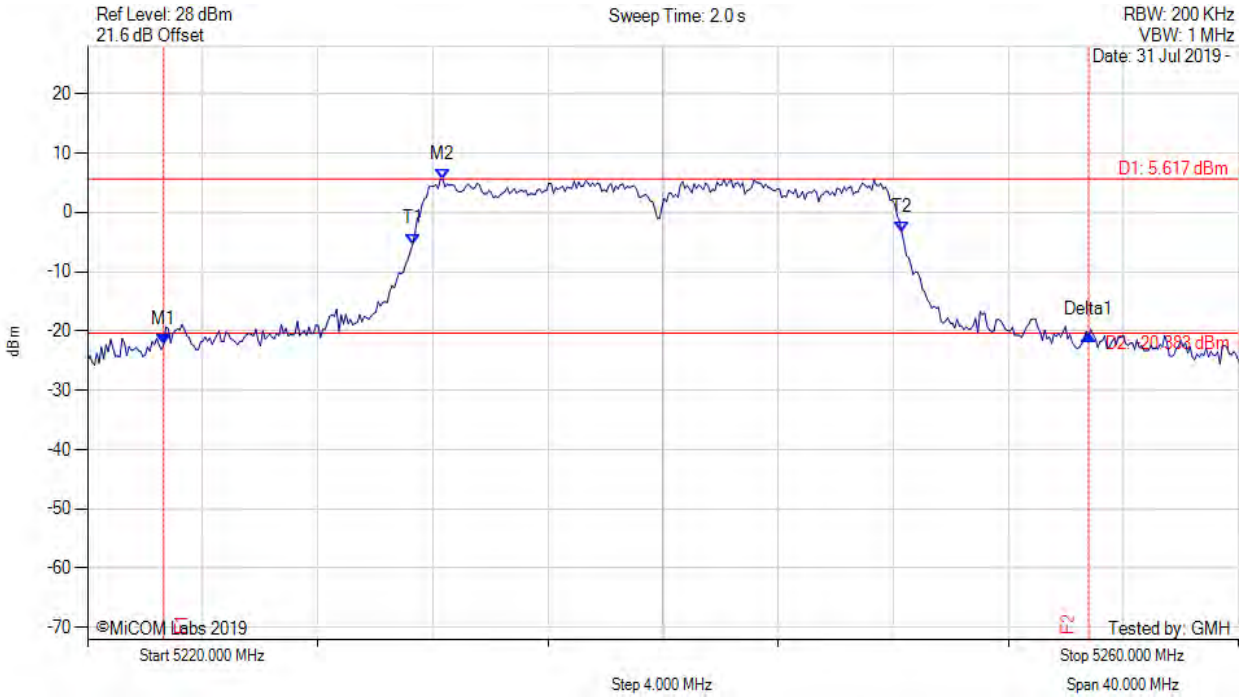



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5187.776 MHz : -20.859 dBm<br>M2 : 5207.335 MHz : 5.537 dBm<br>Delta1 : 25.251 MHz : 0.773 dB<br>T1 : 5191.383 MHz : -3.857 dBm<br>T2 : 5208.297 MHz : -3.767 dBm<br>OBW : 16.914 MHz | Channel Frequency: 5200.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

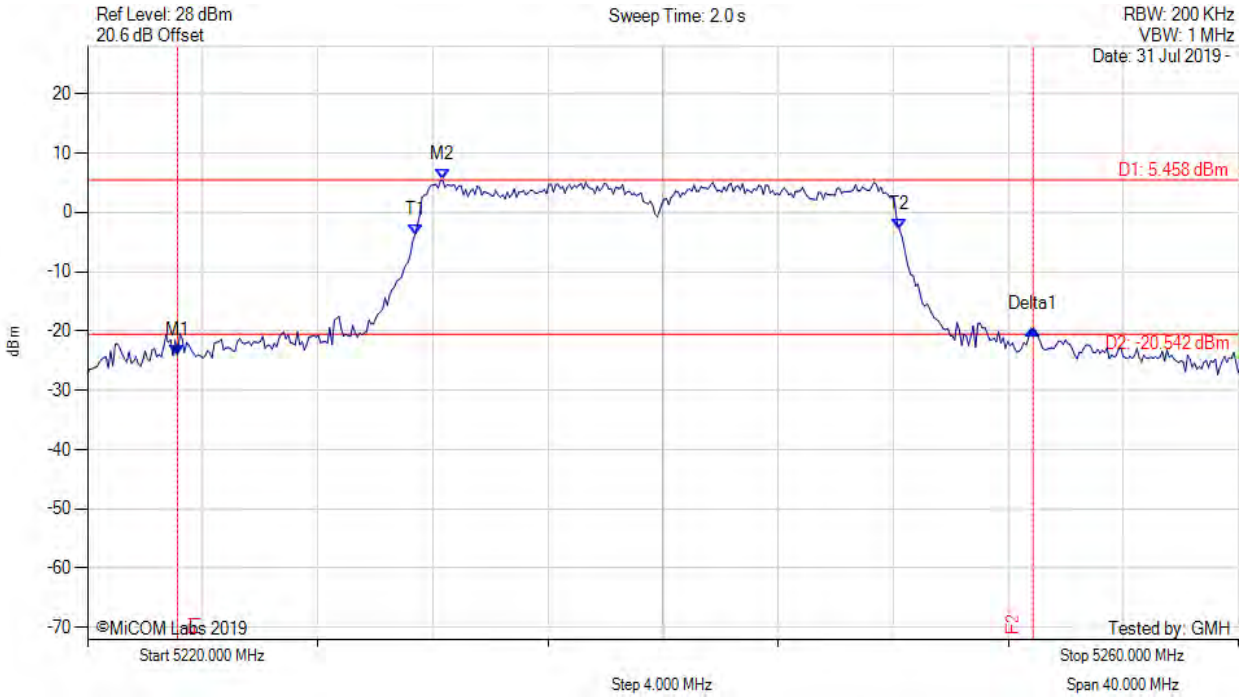



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5222.645 MHz : -22.278 dBm<br>M2 : 5232.345 MHz : 5.617 dBm<br>Delta1 : 32.144 MHz : 1.590 dB<br>T1 : 5231.303 MHz : -5.325 dBm<br>T2 : 5248.297 MHz : -3.338 dBm<br>OBW : 16.994 MHz | Channel Frequency: 5240.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

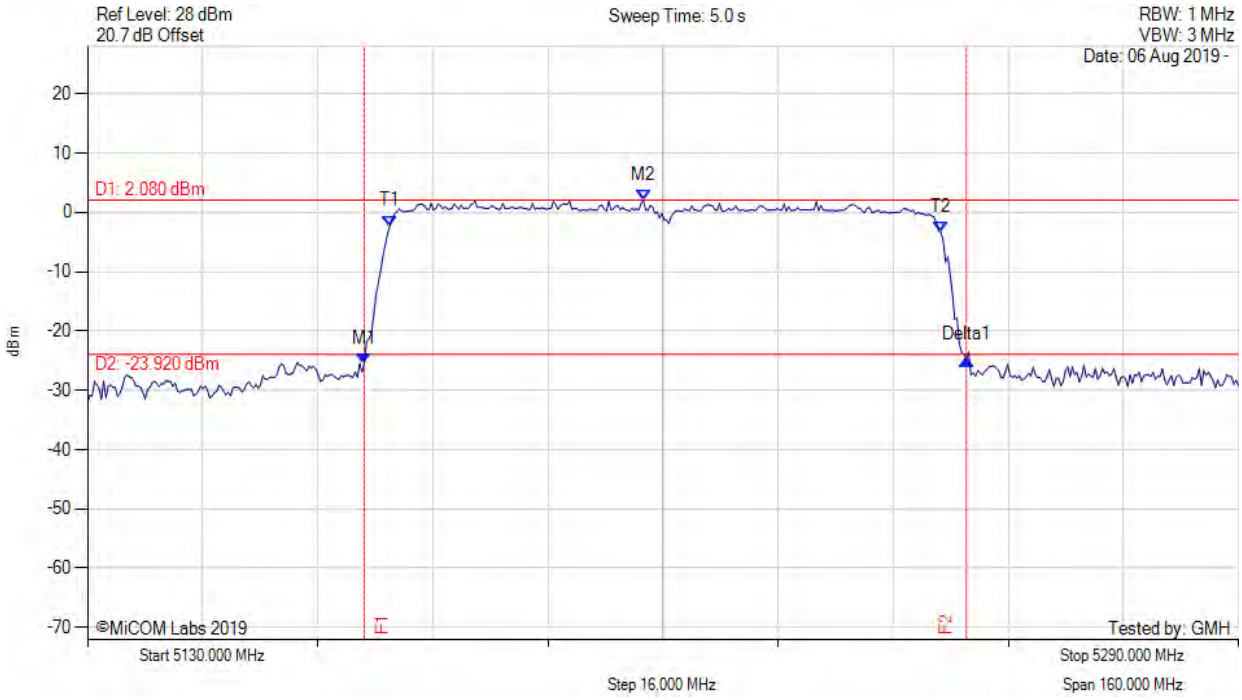



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5223.126 MHz : -24.208 dBm<br>M2 : 5232.345 MHz : 5.458 dBm<br>Delta1 : 29.739 MHz : 4.521 dB<br>T1 : 5231.383 MHz : -3.741 dBm<br>T2 : 5248.216 MHz : -2.870 dBm<br>OBW : 16.834 MHz | Channel Frequency: 5240.00 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

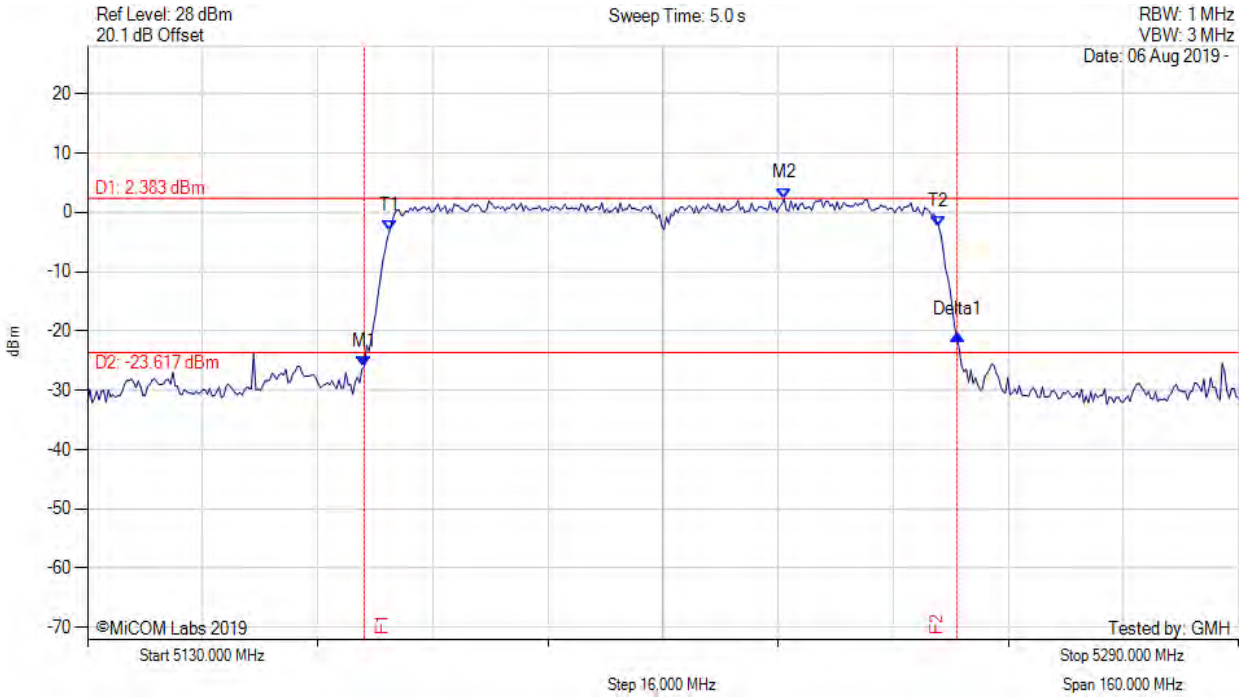



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5168.477 MHz : -25.451 dBm<br>M2 : 5207.275 MHz : 2.080 dBm<br>Delta1 : 83.687 MHz : 0.667 dB<br>T1 : 5172.004 MHz : -2.299 dBm<br>T2 : 5248.637 MHz : -3.397 dBm<br>OBW : 76.633 MHz | Measured 26 dB Bandwidth: 83.687 MHz<br>Measured 99% Bandwidth: 76.633 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5168.477 MHz : -25.972 dBm<br>M2 : 5226.834 MHz : 2.383 dBm<br>Delta1 : 82.405 MHz : 5.278 dB<br>T1 : 5172.004 MHz : -3.126 dBm<br>T2 : 5248.317 MHz : -2.337 dBm<br>OBW : 76.313 MHz | Measured 26 dB Bandwidth: 82.405 MHz<br>Measured 99% Bandwidth: 76.313 MHz |

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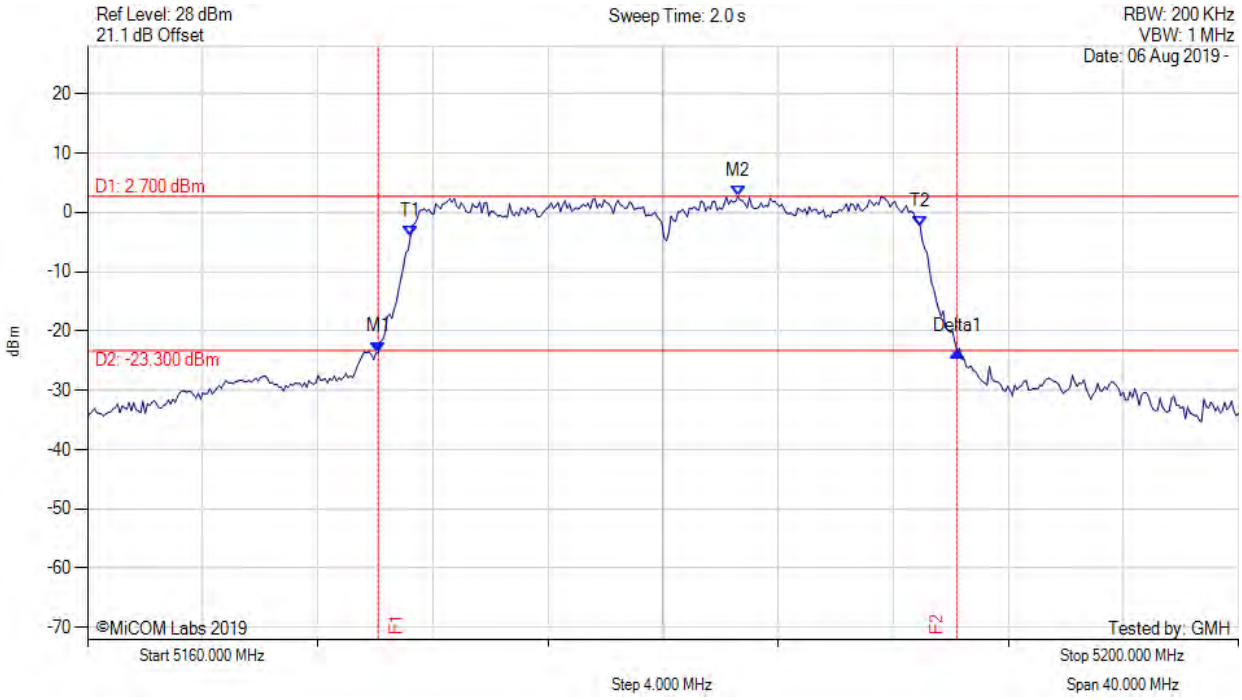
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

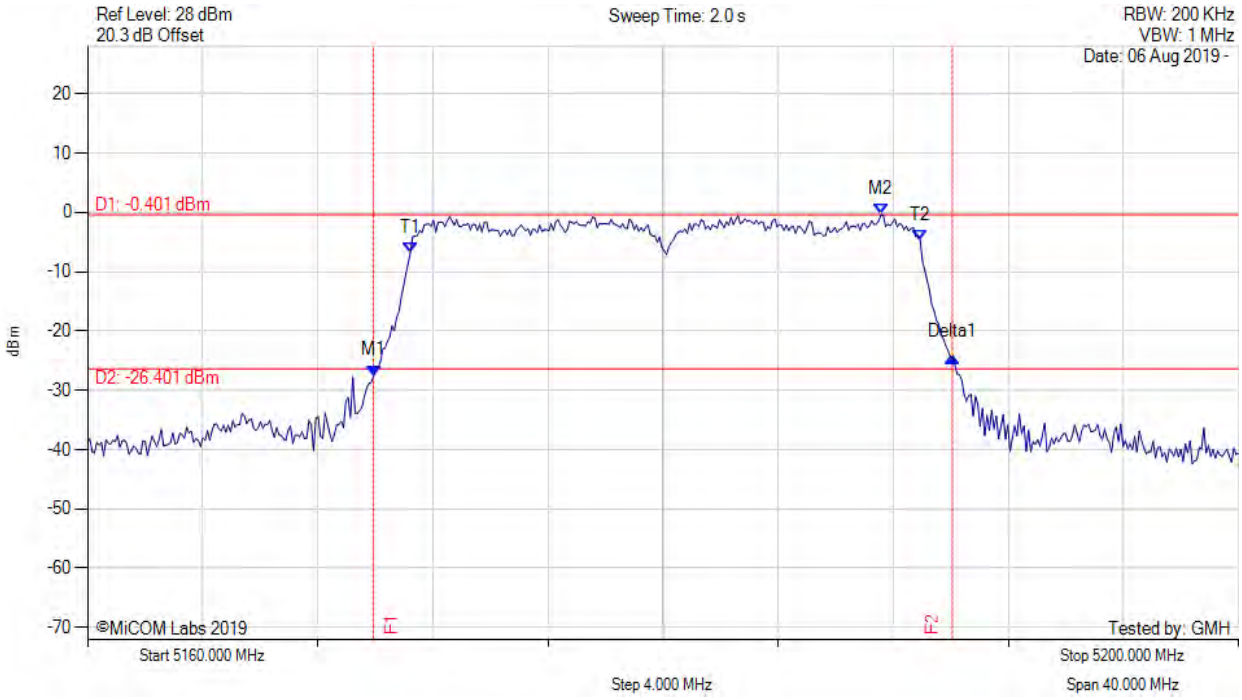



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5170.100 MHz : -23.568 dBm<br>M2 : 5182.605 MHz : 2.700 dBm<br>Delta1 : 20.120 MHz : 0.201 dB<br>T1 : 5171.222 MHz : -3.962 dBm<br>T2 : 5188.938 MHz : -2.360 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 20.120 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

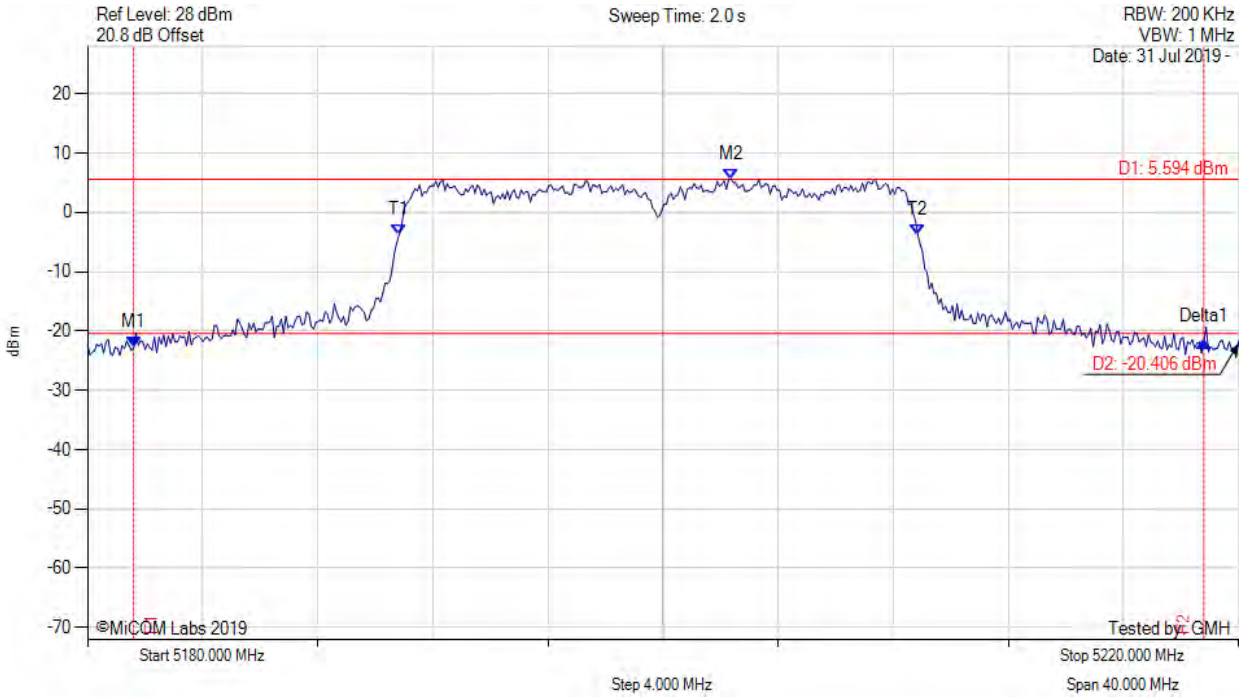



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5169.940 MHz : -27.546 dBm<br>M2 : 5187.575 MHz : -0.401 dBm<br>Delta1 : 20.120 MHz : 3.091 dB<br>T1 : 5171.222 MHz : -6.775 dBm<br>T2 : 5188.938 MHz : -4.741 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 20.120 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

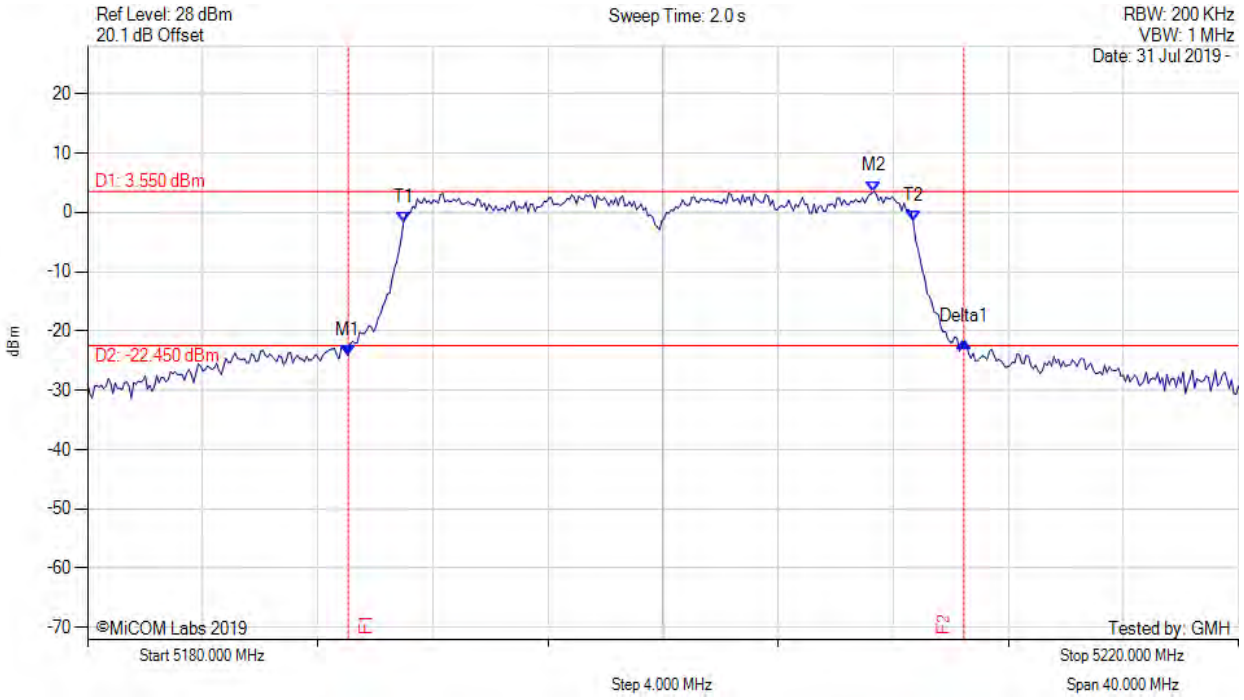



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5181.603 MHz : -22.801 dBm<br>M2 : 5202.365 MHz : 5.594 dBm<br>Delta1 : 37.194 MHz : 1.041 dB<br>T1 : 5190.822 MHz : -3.787 dBm<br>T2 : 5208.858 MHz : -3.844 dBm<br>OBW : 18.036 MHz | Measured 26 dB Bandwidth: 37.194 MHz<br>Measured 99% Bandwidth: 18.036 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

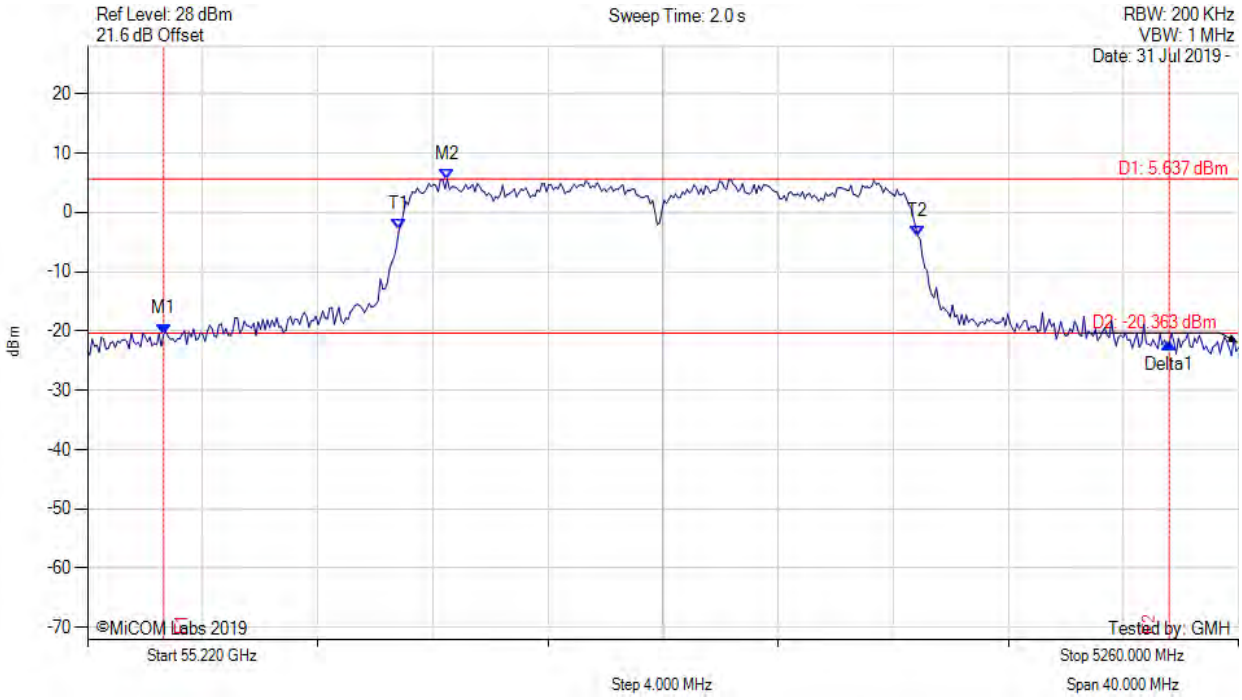



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5189.058 MHz : -24.135 dBm<br>M2 : 5207.335 MHz : 3.550 dBm<br>Delta1 : 21.403 MHz : 2.361 dB<br>T1 : 5190.982 MHz : -1.678 dBm<br>T2 : 5208.697 MHz : -1.483 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 21.403 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

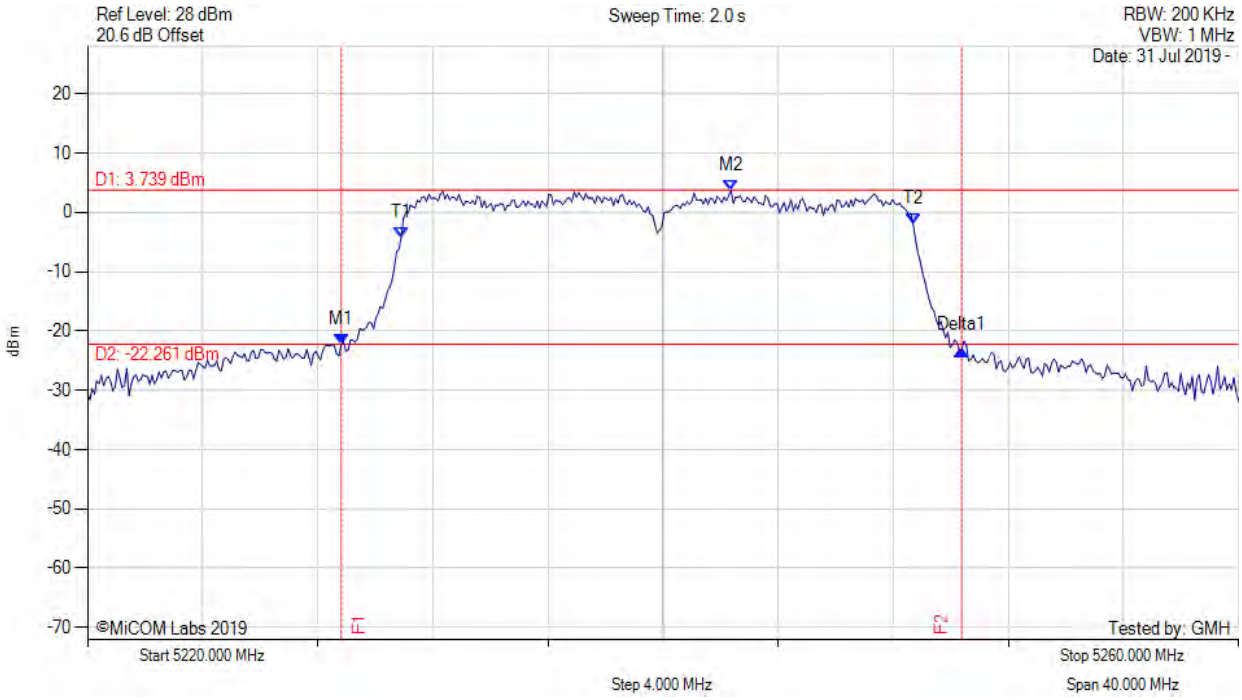



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5222.645 MHz : -20.531 dBm<br>M2 : 5232.505 MHz : 5.637 dBm<br>Delta1 : 34.950 MHz : -1.607 dB<br>T1 : 5230.822 MHz : -2.956 dBm<br>T2 : 5248.858 MHz : -3.954 dBm<br>OBW : 18.036 MHz | Channel Frequency: 5240.00 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 55 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 | ERROR!!! MULTIPLE TEST RESULTS MATCHES... | Measured 26 dB Bandwidth: 21.563 MHz<br>Measured 99% Bandwidth: 17.796 MHz<br>ERROR!!! MULTIPLE TEST RESULTS MATCHES... |

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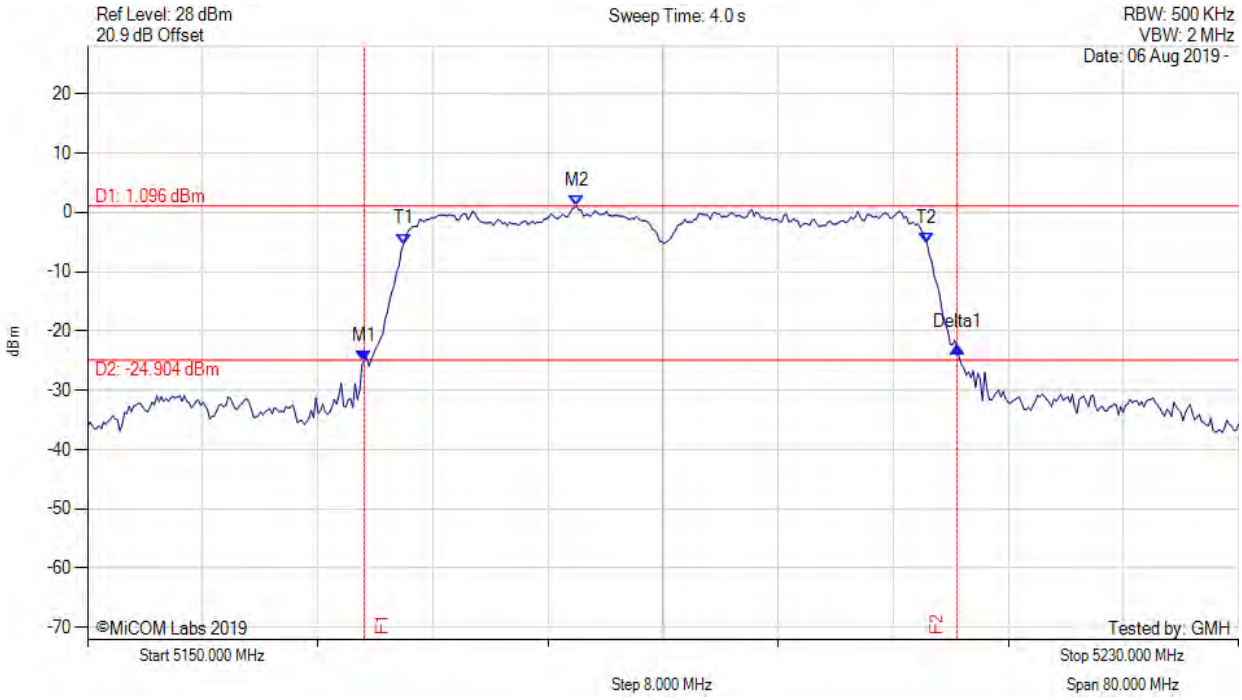
## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

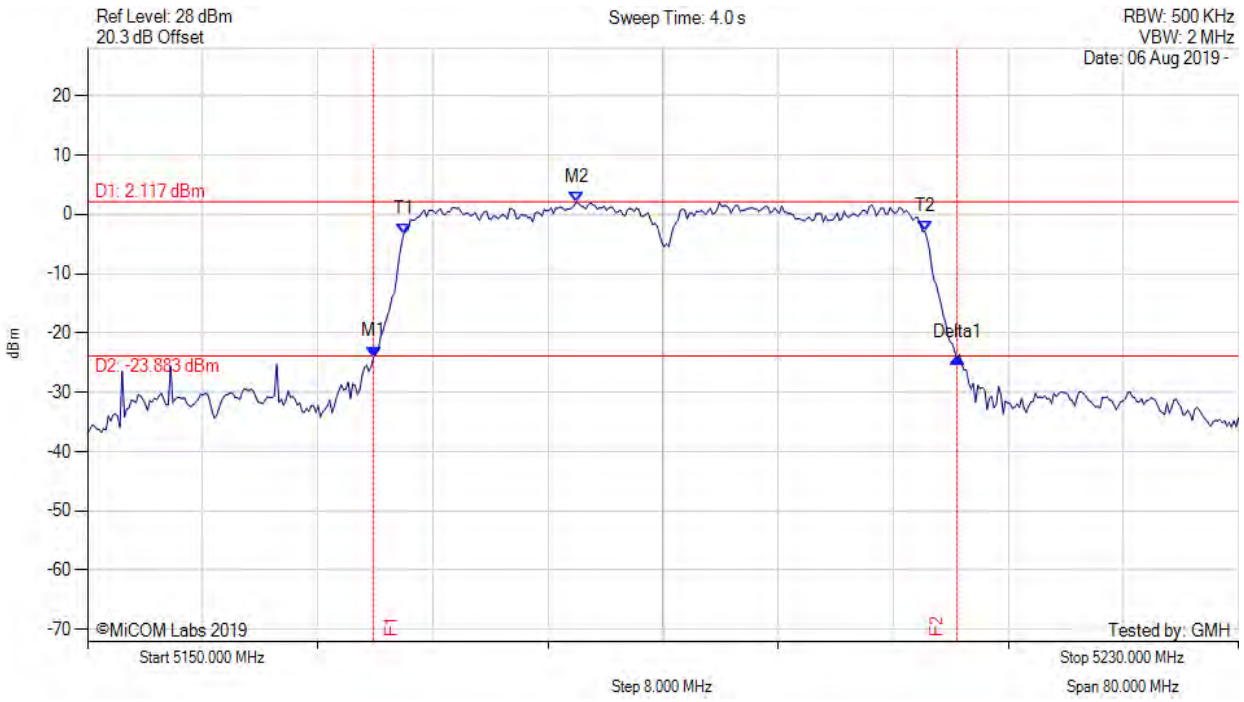



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5169.238 MHz : -25.028 dBm<br>M2 : 5183.988 MHz : 1.096 dBm<br>Delta1 : 41.202 MHz : 2.276 dB<br>T1 : 5171.964 MHz : -5.329 dBm<br>T2 : 5208.357 MHz : -5.256 dBm<br>OBW : 36.393 MHz | Measured 26 dB Bandwidth: 41.202 MHz<br>Measured 99% Bandwidth: 36.393 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5169.880 MHz : -24.042 dBm<br>M2 : 5183.988 MHz : 2.117 dBm<br>Delta1 : 40.561 MHz : -0.130 dB<br>T1 : 5171.964 MHz : -3.320 dBm<br>T2 : 5208.196 MHz : -2.860 dBm<br>OBW : 36.232 MHz | Measured 26 dB Bandwidth: 40.561 MHz<br>Measured 99% Bandwidth: 36.232 MHz |

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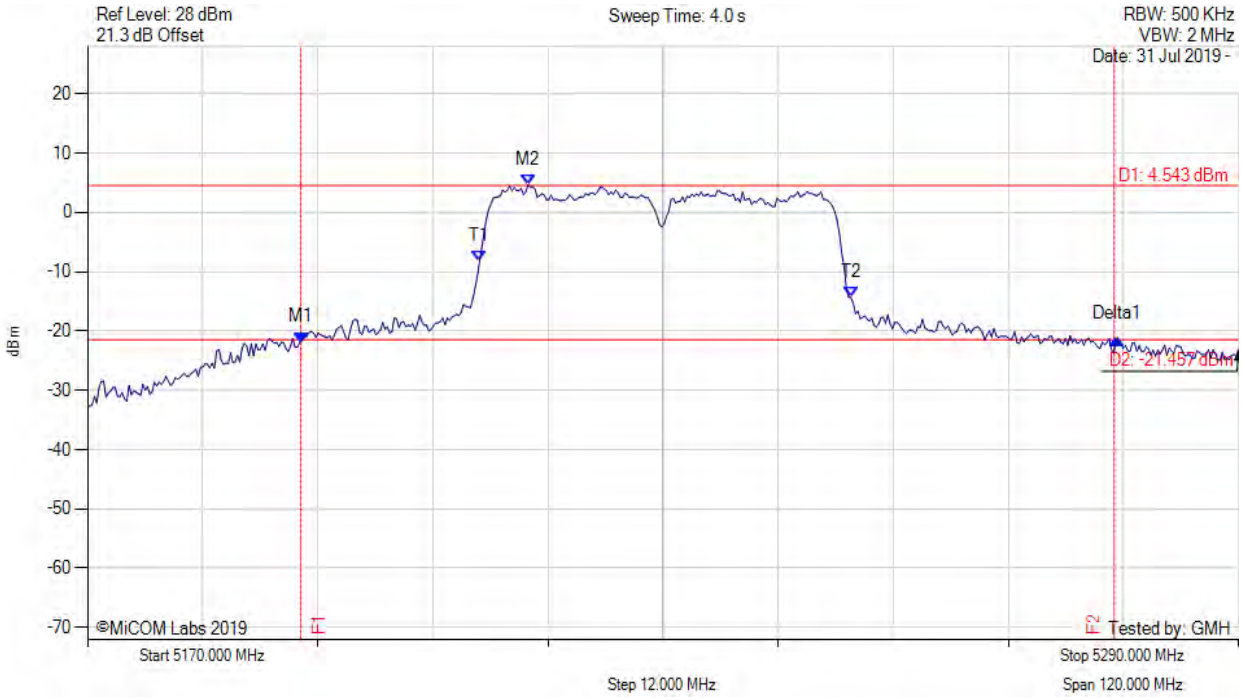
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5192.244 MHz : -21.935 dBm<br>M2 : 5215.972 MHz : 4.594 dBm<br>Delta1 : 85.050 MHz : 0.561 dB<br>T1 : 5210.882 MHz : -8.191 dBm<br>T2 : 5249.599 MHz : -14.355 dBm<br>OBW : 38.717 MHz | Measured 26 dB Bandwidth: 85.050 MHz<br>Measured 99% Bandwidth: 38.717 MHz |

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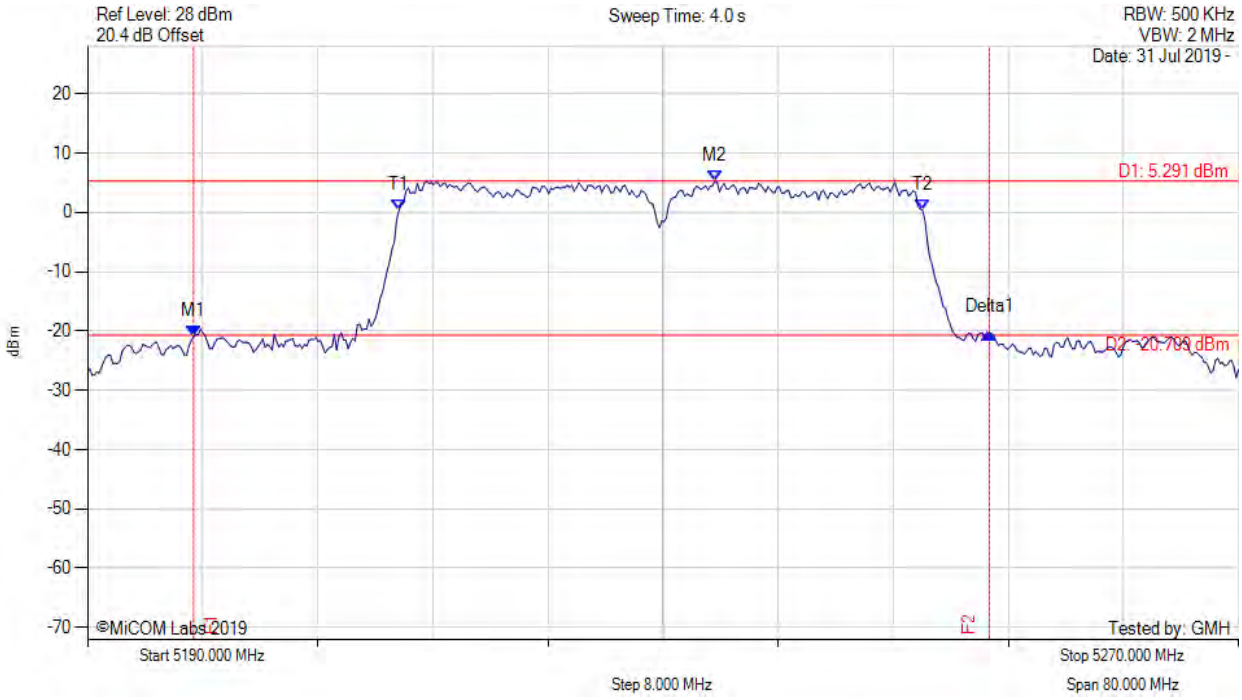
## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5197.375 MHz : -20.914 dBm<br>M2 : 5233.607 MHz : 5.291 dBm<br>Delta1 : 55.311 MHz : 0.620 dB<br>T1 : 5211.643 MHz : 0.343 dBm<br>T2 : 5248.036 MHz : 0.392 dBm<br>OBW : 36.393 MHz | Measured 26 dB Bandwidth: 55.311 MHz<br>Measured 99% Bandwidth: 36.393 MHz |

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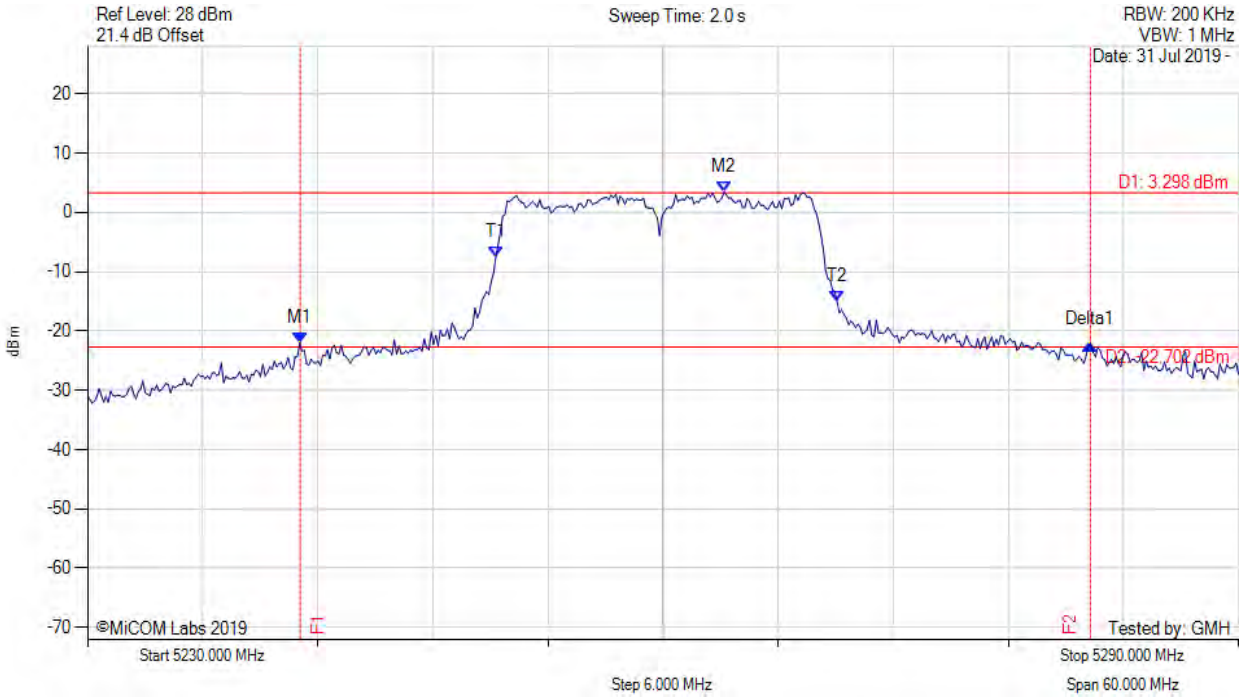
## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5241.082 MHz : -22.034 dBm<br>M2 : 5263.166 MHz : 3.443 dBm<br>Delta1 : 41.202 MHz : -0.173 dB<br>T1 : 5251.283 MHz : -7.564 dBm<br>T2 : 5269.078 MHz : -15.119 dBm<br>OBW : 17.796 MHz | Measured 26 dB Bandwidth: 41.202 MHz<br>Measured 99% Bandwidth: 17.796 MHz |

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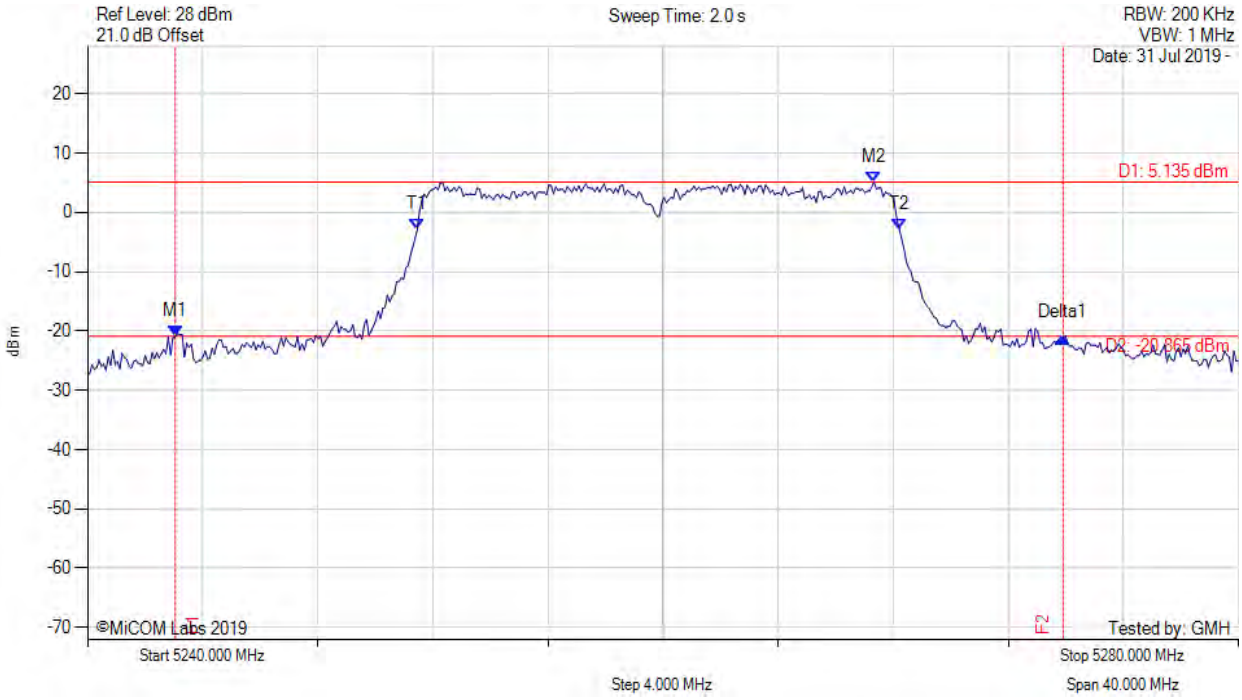
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5243.046 MHz : -20.912 dBm<br>M2 : 5267.335 MHz : 5.135 dBm<br>Delta1 : 30.862 MHz : -0.183 dB<br>T1 : 5251.463 MHz : -2.893 dBm<br>T2 : 5268.216 MHz : -2.962 dBm<br>OBW : 16.754 MHz | Measured 26 dB Bandwidth: 30.862 MHz<br>Measured 99% Bandwidth: 16.754 MHz |

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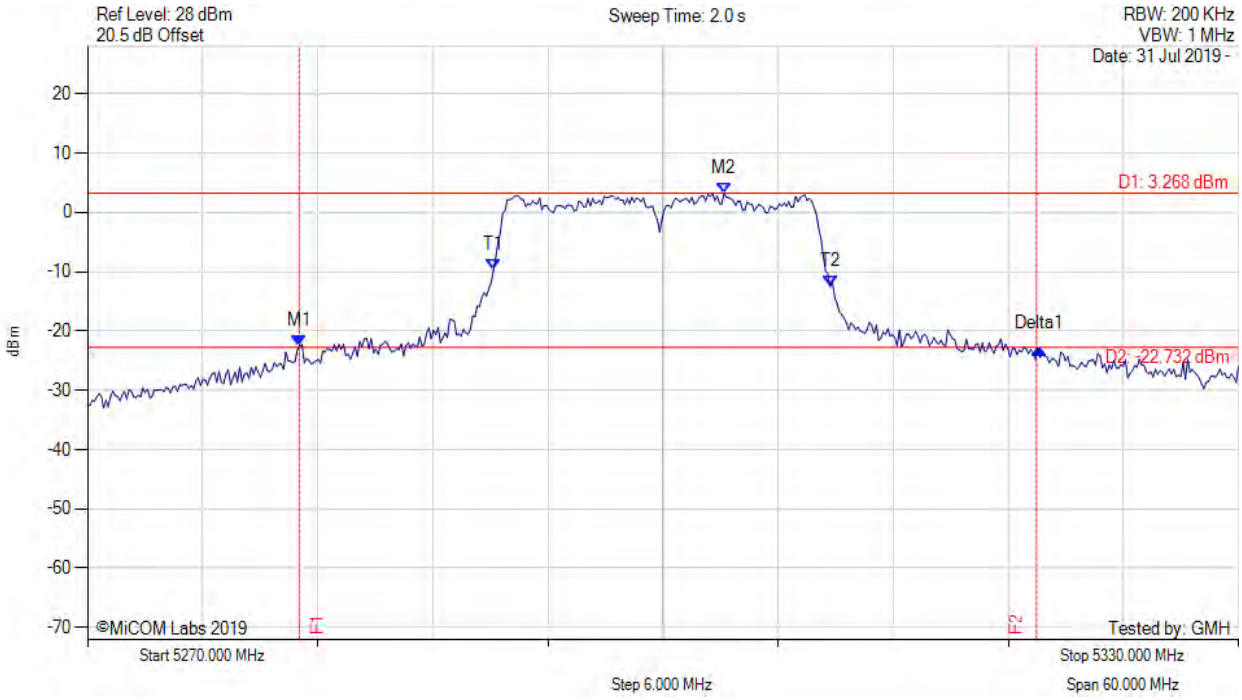
## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

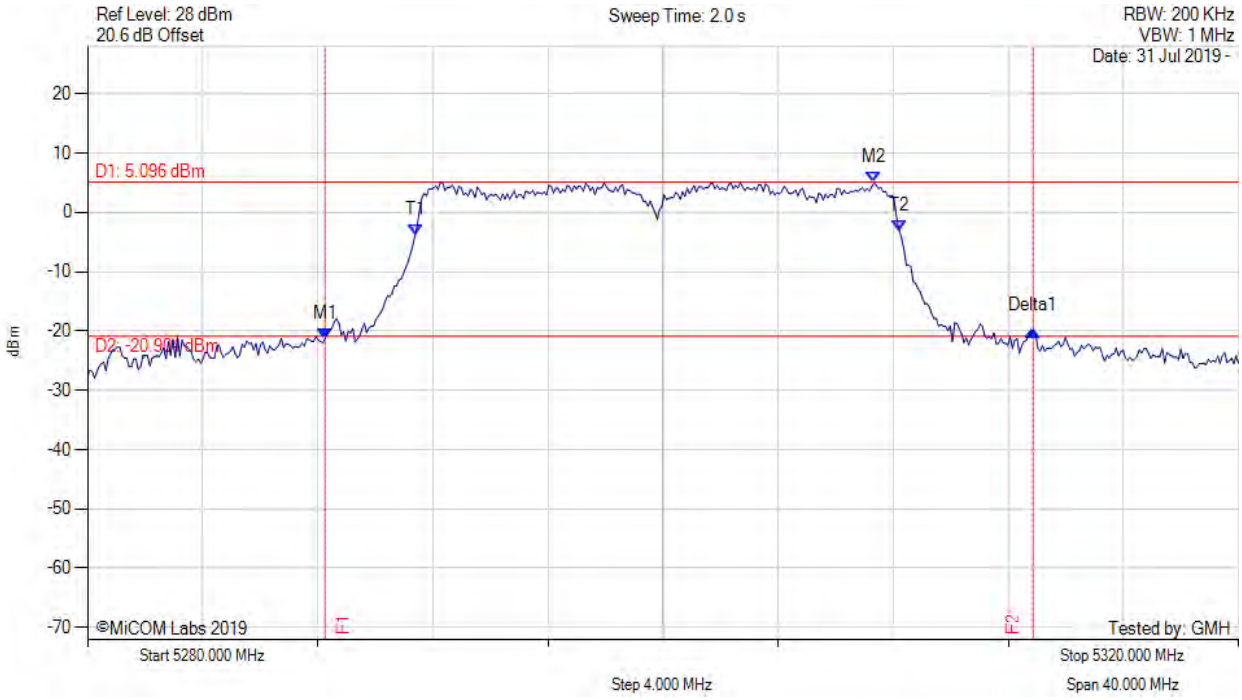



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5281.042 MHz : -22.506 dBm<br>M2 : 5303.166 MHz : 3.239 dBm<br>Delta1 : 38.557 MHz : -0.417 dB<br>T1 : 5291.162 MHz : -9.759 dBm<br>T2 : 5308.717 MHz : -12.524 dBm<br>OBW : 17.555 MHz | Measured 26 dB Bandwidth: 38.557 MHz<br>Measured 99% Bandwidth: 17.555 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5288.257 MHz : -21.280 dBm<br>M2 : 5307.335 MHz : 5.096 dBm<br>Delta1 : 24.609 MHz : 1.302 dB<br>T1 : 5291.383 MHz : -3.836 dBm<br>T2 : 5308.216 MHz : -3.185 dBm<br>OBW : 16.834 MHz | Measured 26 dB Bandwidth: 24.609 MHz<br>Measured 99% Bandwidth: 16.834 MHz |

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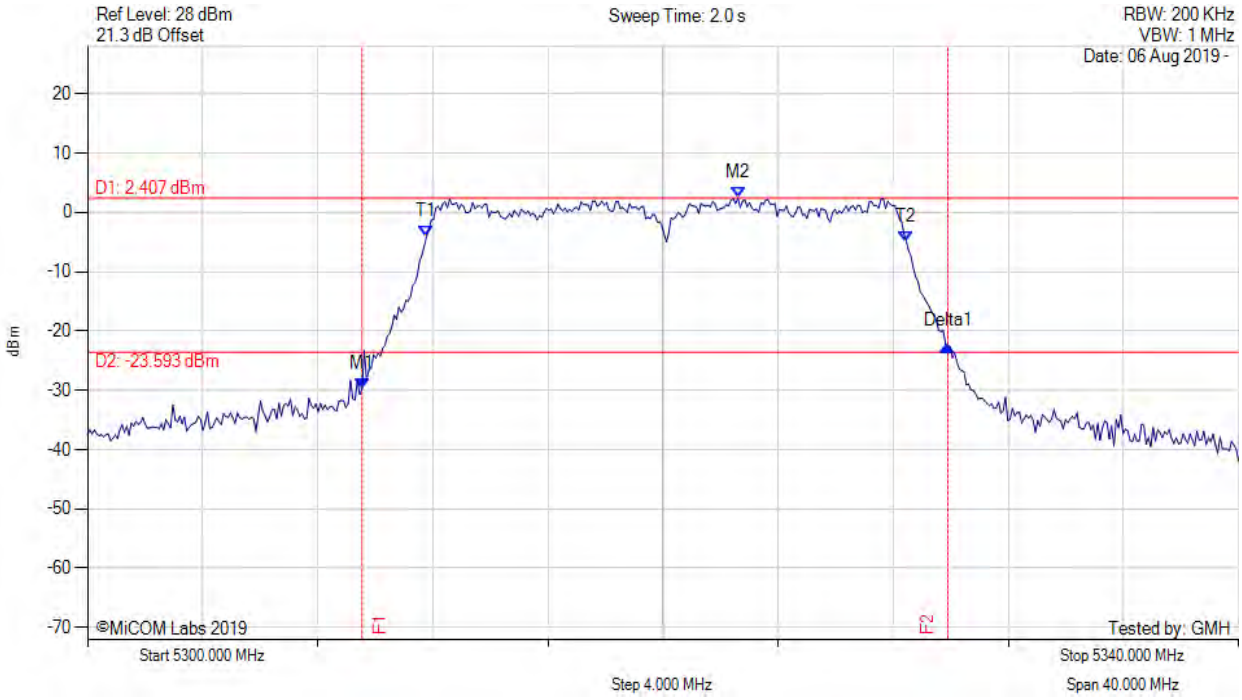
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5309.539 MHz : -29.720 dBm<br>M2 : 5322.605 MHz : 2.407 dBm<br>Delta1 : 20.361 MHz : 7.214 dB<br>T1 : 5311.784 MHz : -4.005 dBm<br>T2 : 5328.457 MHz : -4.914 dBm<br>OBW : 16.673 MHz | Measured 26 dB Bandwidth: 20.361 MHz<br>Measured 99% Bandwidth: 16.673 MHz |

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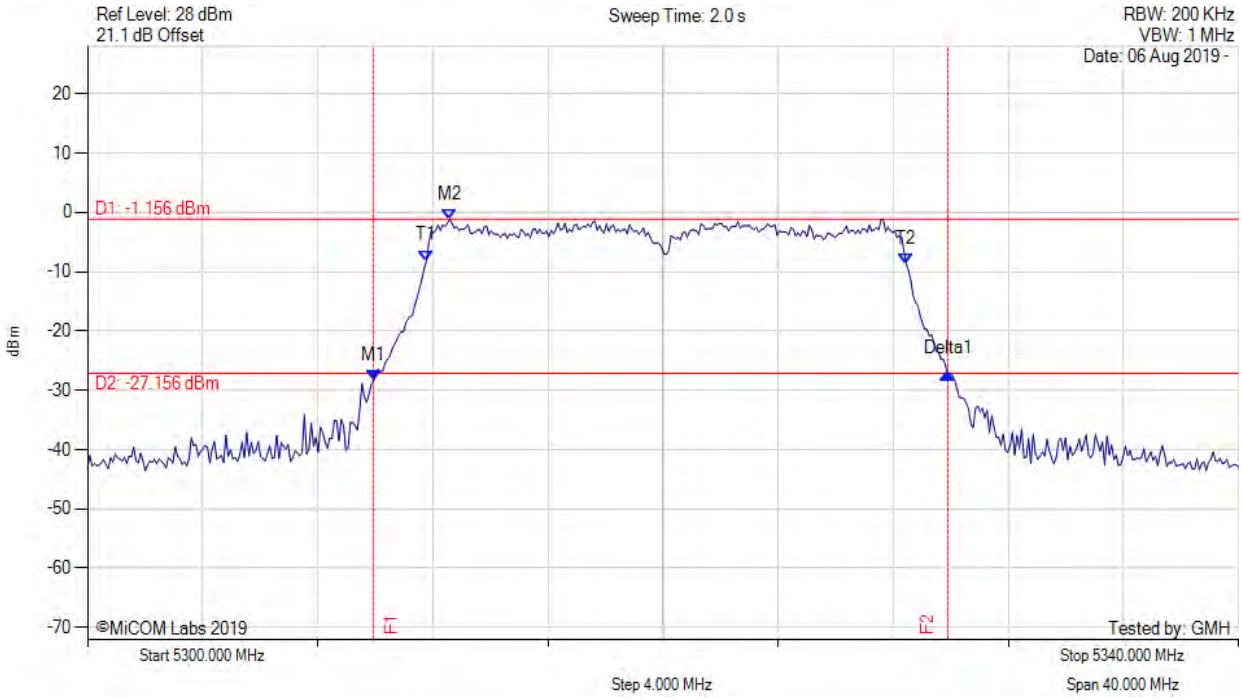
## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5309.940 MHz : -28.323 dBm<br>M2 : 5312.585 MHz : -1.156 dBm<br>Delta1 : 19.960 MHz : 1.058 dB<br>T1 : 5311.784 MHz : -8.127 dBm<br>T2 : 5328.457 MHz : -8.756 dBm<br>OBW : 16.673 MHz | Measured 26 dB Bandwidth: 19.960 MHz<br>Measured 99% Bandwidth: 16.673 MHz |

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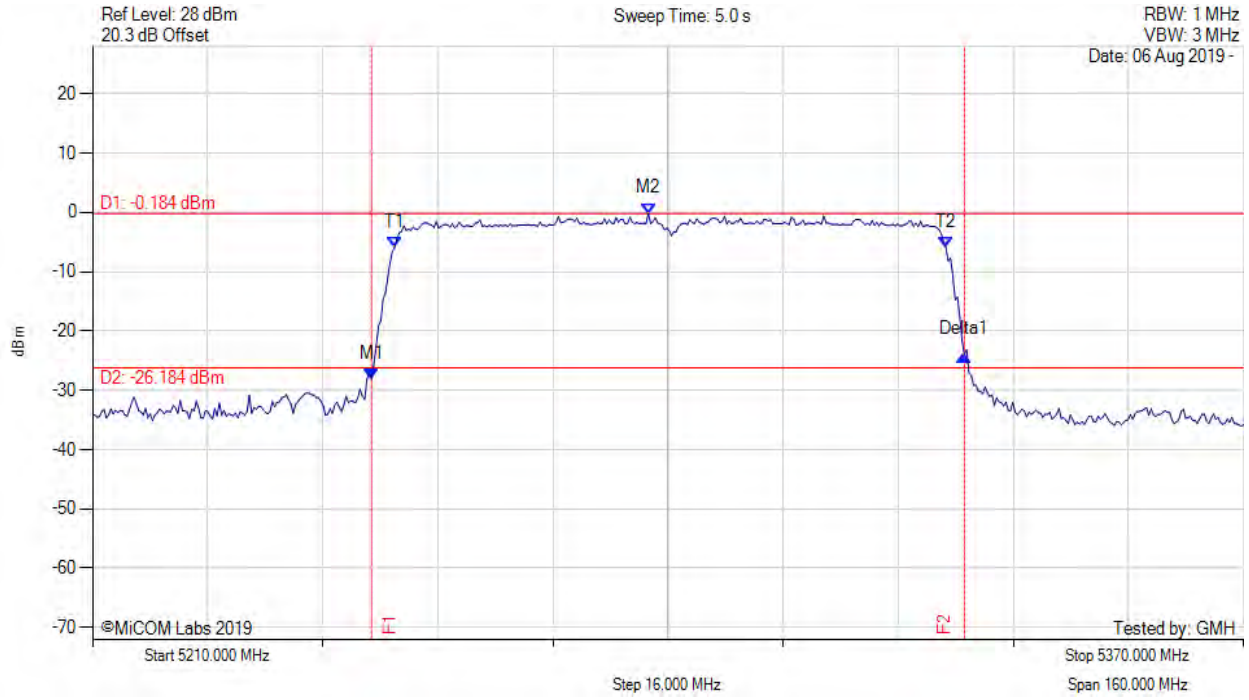
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5248.798 MHz : -28.168 dBm<br>M2 : 5287.275 MHz : -0.184 dBm<br>Delta1 : 82.405 MHz : 4.135 dB<br>T1 : 5252.004 MHz : -5.831 dBm<br>T2 : 5328.637 MHz : -5.959 dBm<br>OBW : 76.633 MHz | Measured 26 dB Bandwidth: 82.405 MHz<br>Measured 99% Bandwidth: 76.633 MHz |

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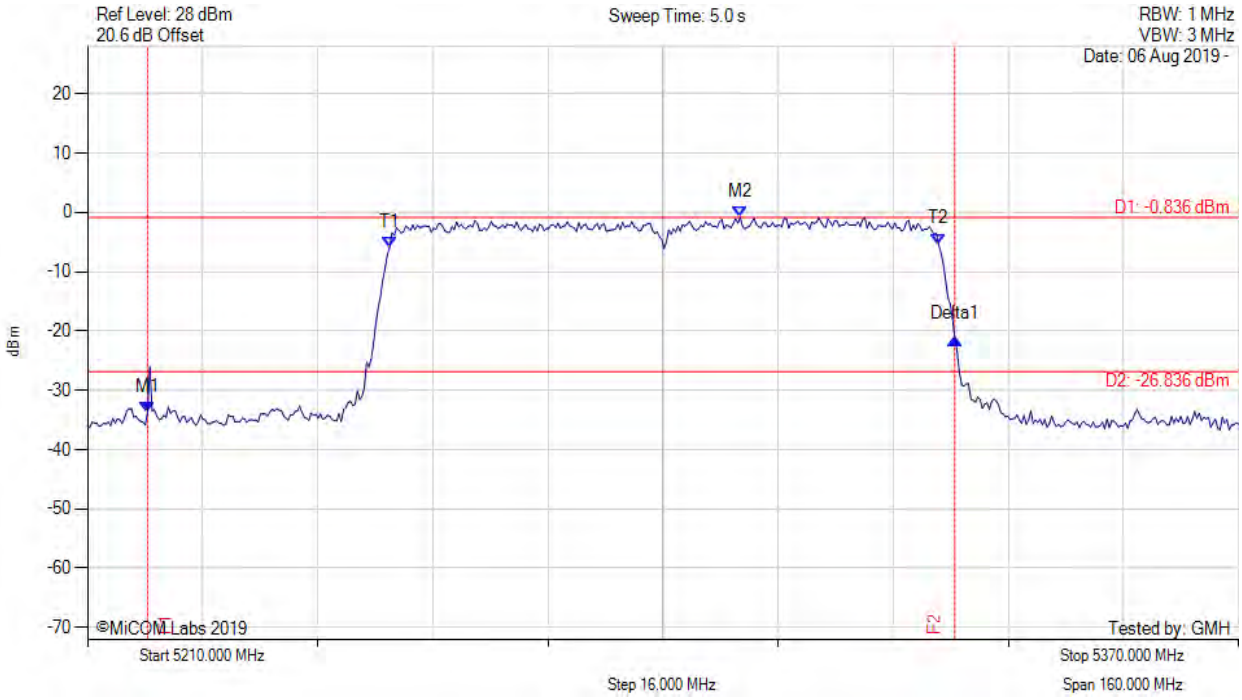
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5218.337 MHz : -33.789 dBm<br>M2 : 5300.741 MHz : -0.836 dBm<br>Delta1 : 112.224 MHz : 12.540 dB<br>T1 : 5252.004 MHz : -5.964 dBm<br>T2 : 5328.317 MHz : -5.327 dBm<br>OBW : 76.313 MHz | Measured 26 dB Bandwidth: 112.224 MHz<br>Measured 99% Bandwidth: 76.313 MHz |

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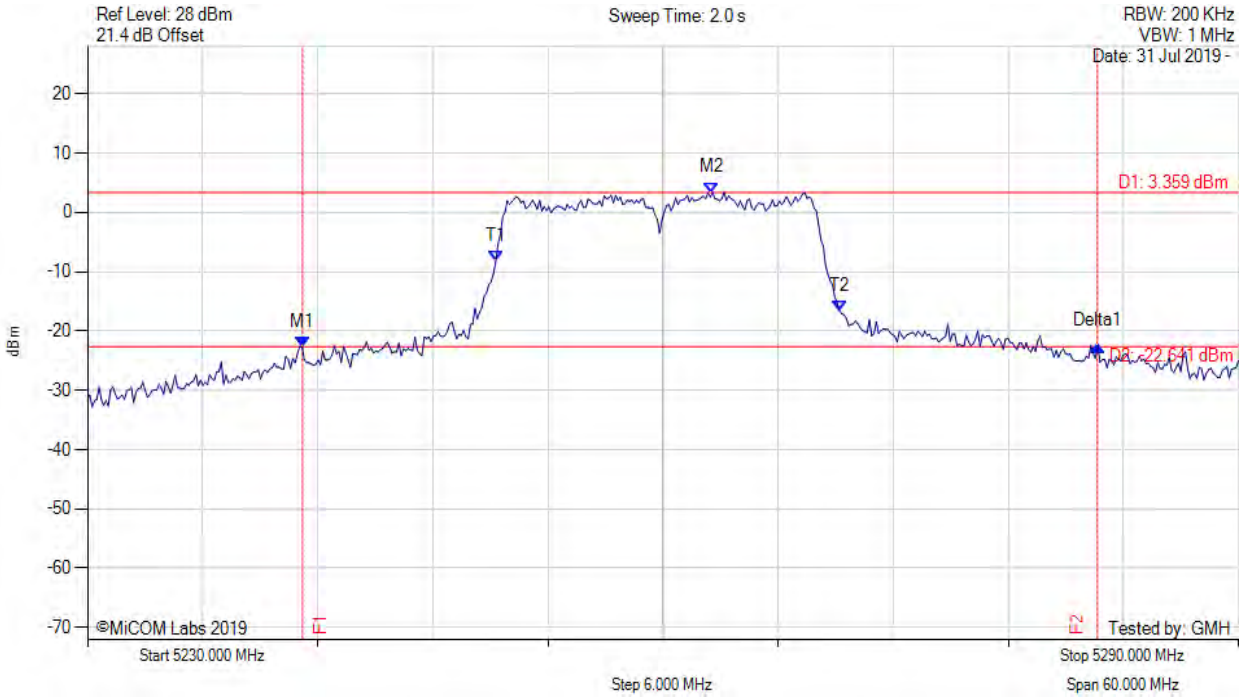
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

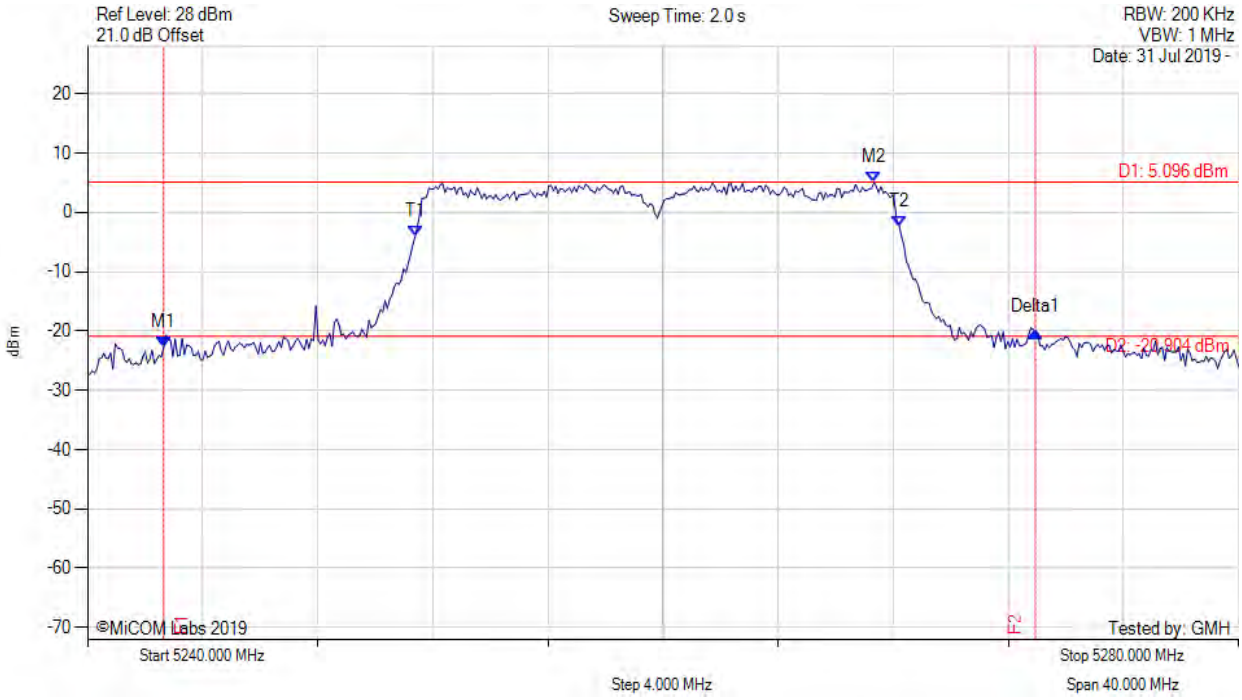



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5241.202 MHz : -22.669 dBm<br>M2 : 5262.525 MHz : 3.320 dBm<br>Delta1 : 41.443 MHz : 0.142 dB<br>T1 : 5251.283 MHz : -8.184 dBm<br>T2 : 5269.198 MHz : -16.576 dBm<br>OBW : 17.916 MHz | Measured 26 dB Bandwidth: 41.443 MHz<br>Measured 99% Bandwidth: 17.916 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5242.645 MHz : -22.842 dBm<br>M2 : 5267.335 MHz : 5.096 dBm<br>Delta1 : 30.301 MHz : 2.770 dB<br>T1 : 5251.383 MHz : -4.143 dBm<br>T2 : 5268.216 MHz : -2.382 dBm<br>OBW : 16.834 MHz | Measured 26 dB Bandwidth: 30.301 MHz<br>Measured 99% Bandwidth: 16.834 MHz |

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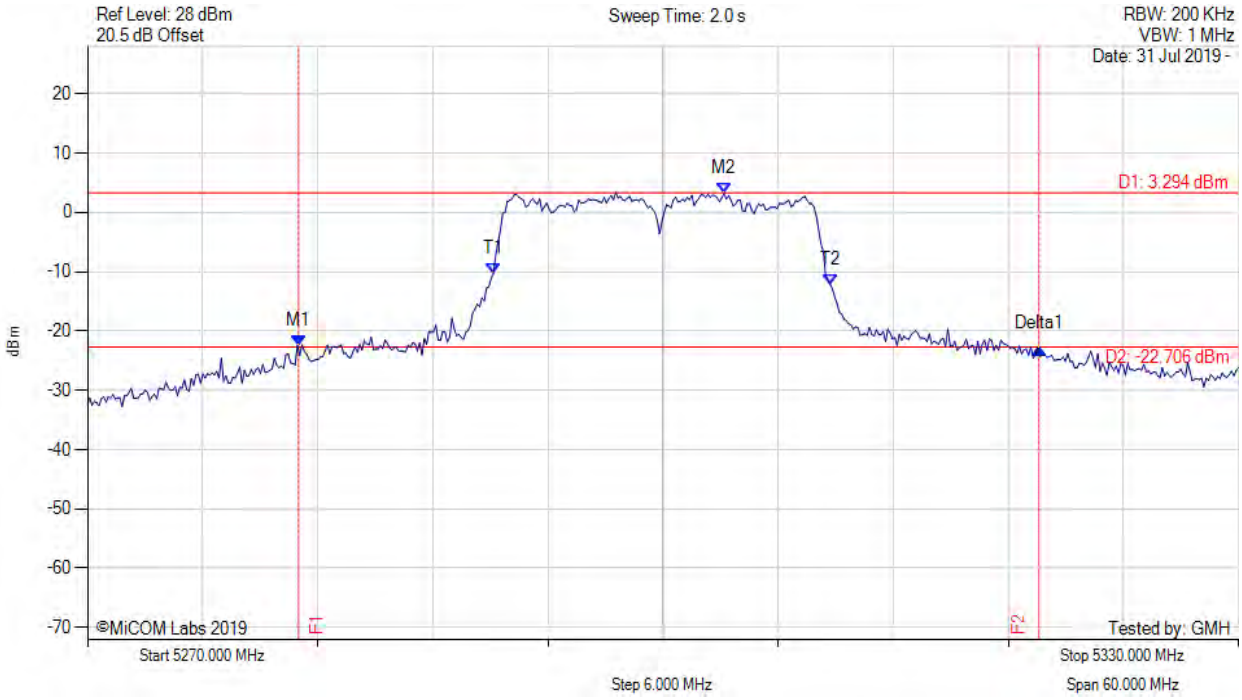
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

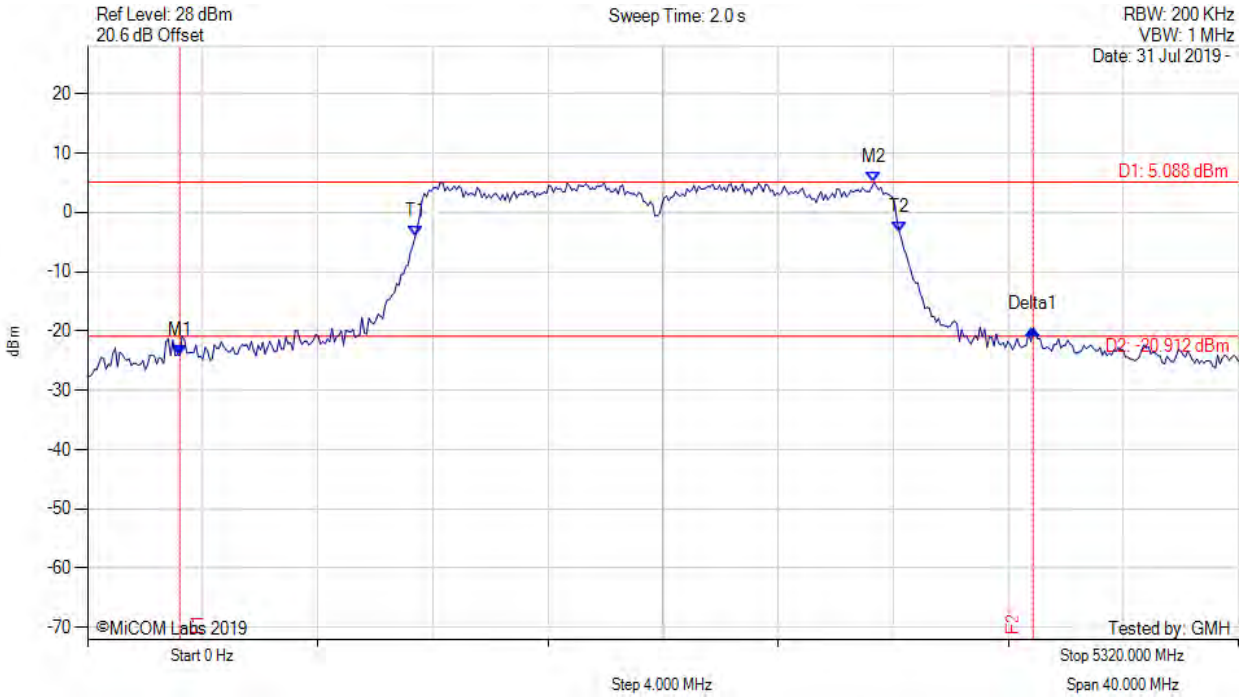



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5281.002 MHz : -22.408 dBm<br>M2 : 5303.166 MHz : 3.178 dBm<br>Delta1 : 38.597 MHz : -0.466 dB<br>T1 : 5291.162 MHz : -10.265 dBm<br>T2 : 5308.717 MHz : -12.128 dBm<br>OBW : 17.555 MHz | Channel Frequency: 5300.00 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

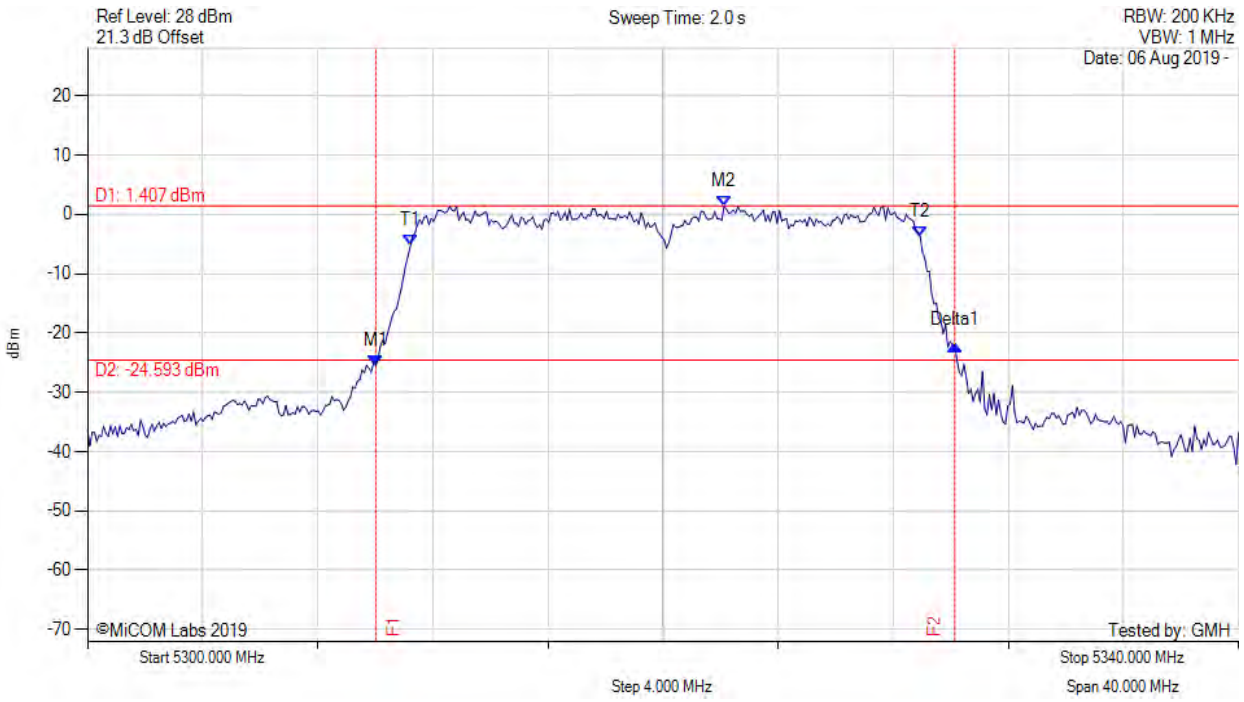



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | ERROR!!! MULTIPLE TEST RESULTS MATCHES... | Measured 26 dB Bandwidth: 29.659 MHz<br>Measured 99% Bandwidth: 16.834 MHz<br>ERROR!!! MULTIPLE TEST RESULTS MATCHES... |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

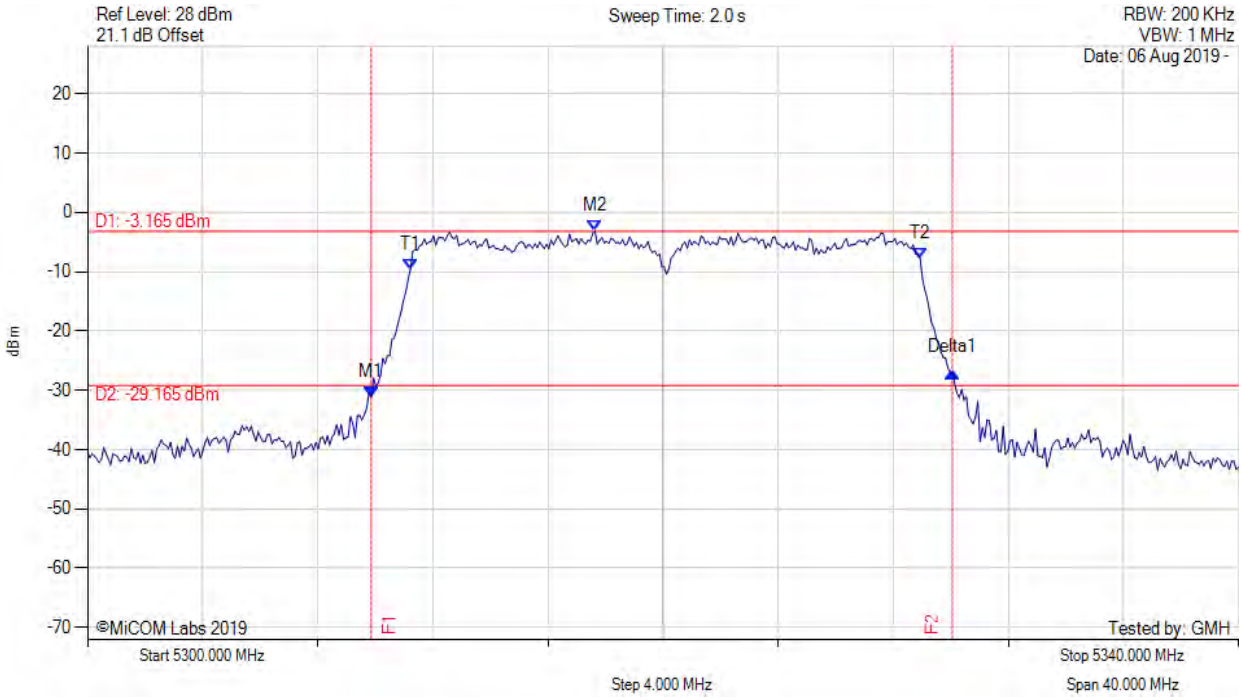



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5310.020 MHz : -25.457 dBm<br>M2 : 5322.124 MHz : 1.407 dBm<br>Delta1 : 20.120 MHz : 3.423 dB<br>T1 : 5311.222 MHz : -5.294 dBm<br>T2 : 5328.938 MHz : -3.741 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 20.120 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

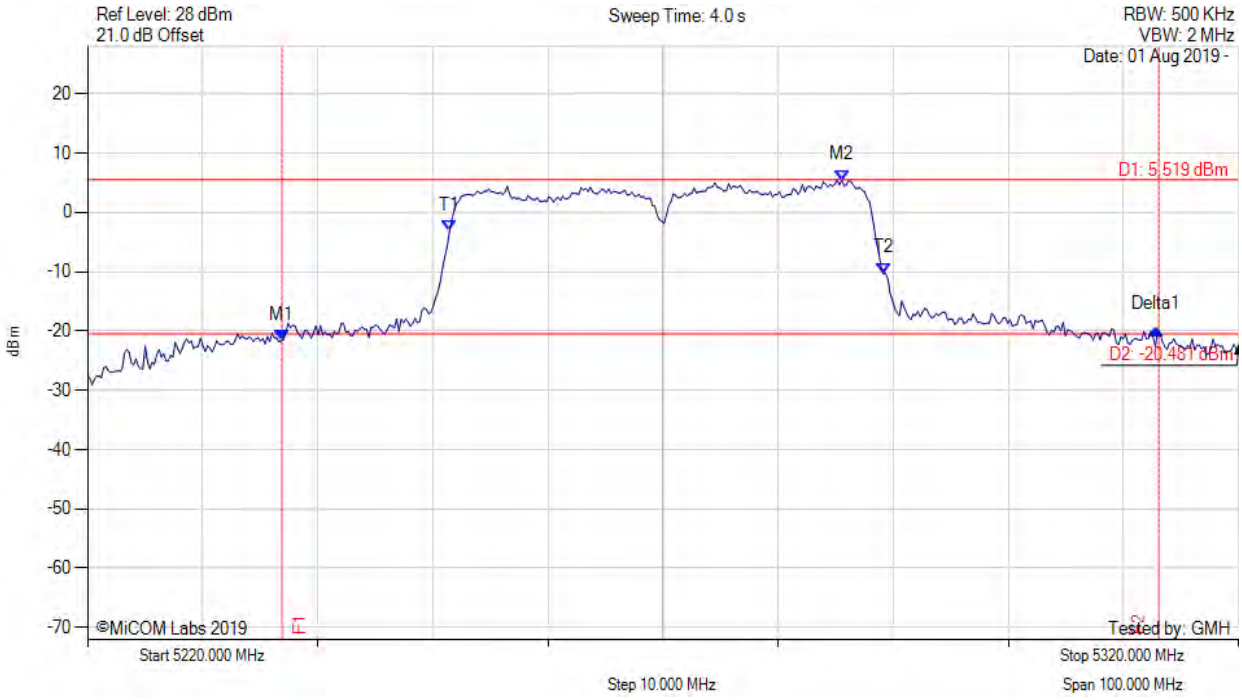



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5309.860 MHz : -31.097 dBm<br>M2 : 5317.635 MHz : -3.165 dBm<br>Delta1 : 20.200 MHz : 4.074 dB<br>T1 : 5311.222 MHz : -9.610 dBm<br>T2 : 5328.938 MHz : -7.790 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 20.200 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

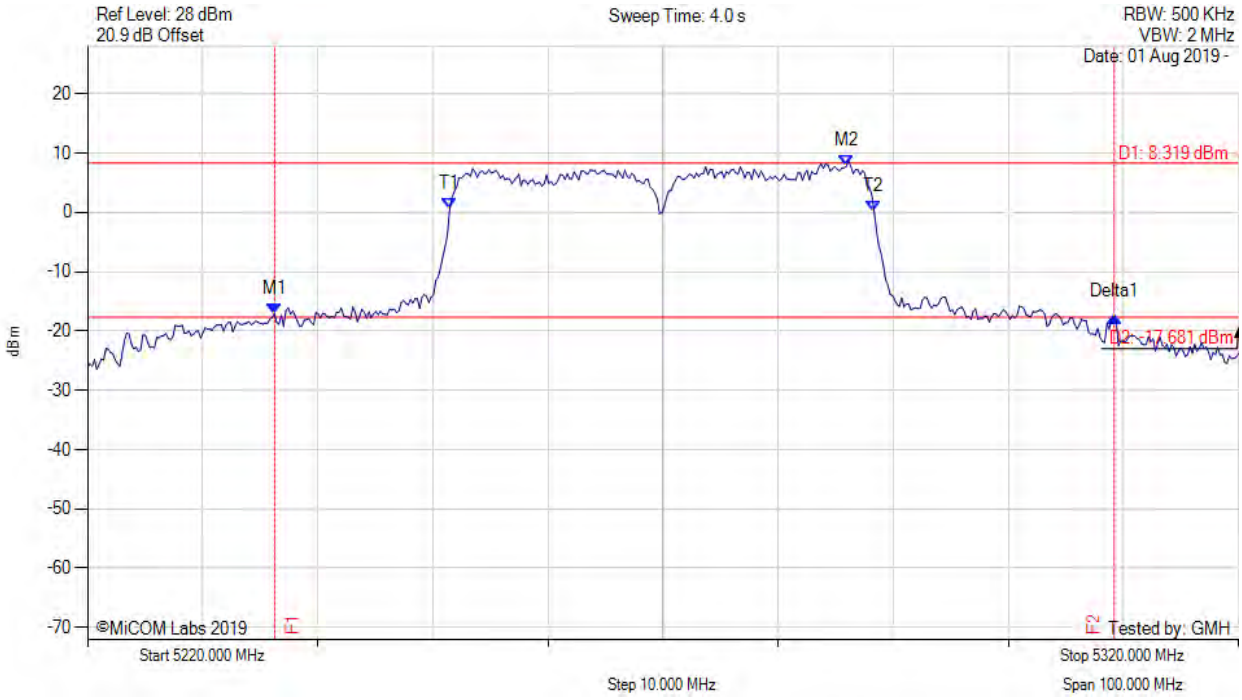



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5236.894 MHz : -21.638 dBm<br>M2 : 5285.531 MHz : 5.425 dBm<br>Delta1 : 75.992 MHz : 1.871 dB<br>T1 : 5251.463 MHz : -3.049 dBm<br>T2 : 5289.138 MHz : -10.249 dBm<br>OBW : 37.675 MHz | Measured 26 dB Bandwidth: 75.992 MHz<br>Measured 99% Bandwidth: 37.675 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5236.253 MHz : -17.058 dBm<br>M2 : 5285.952 MHz : 7.778 dBm<br>Delta1 : 72.946 MHz : -0.618 dB<br>T1 : 5251.463 MHz : 0.575 dBm<br>T2 : 5288.337 MHz : 0.248 dBm<br>OBW : 36.874 MHz | Measured 26 dB Bandwidth: 72.946 MHz<br>Measured 99% Bandwidth: 36.874 MHz |

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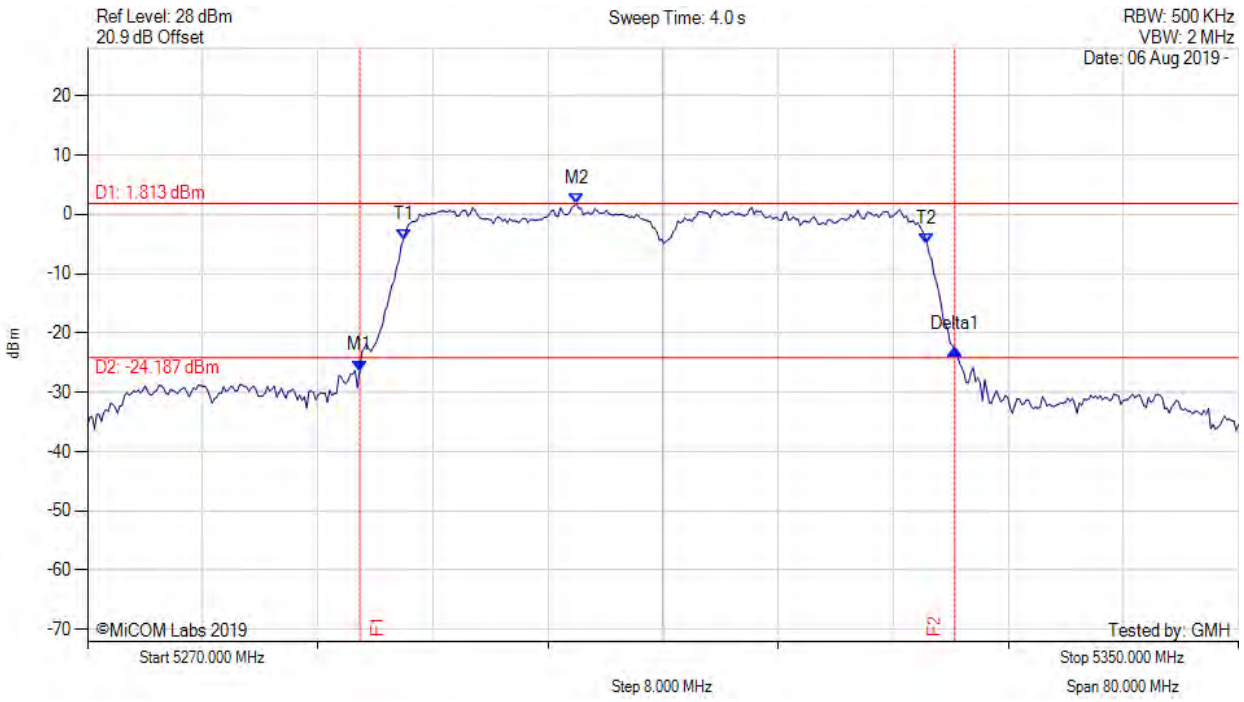
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5288.918 MHz : -26.368 dBm<br>M2 : 5303.988 MHz : 1.813 dBm<br>Delta1 : 41.363 MHz : 3.710 dB<br>T1 : 5291.964 MHz : -4.178 dBm<br>T2 : 5328.357 MHz : -4.941 dBm<br>OBW : 36.393 MHz | Measured 26 dB Bandwidth: 41.363 MHz<br>Measured 99% Bandwidth: 36.393 MHz |

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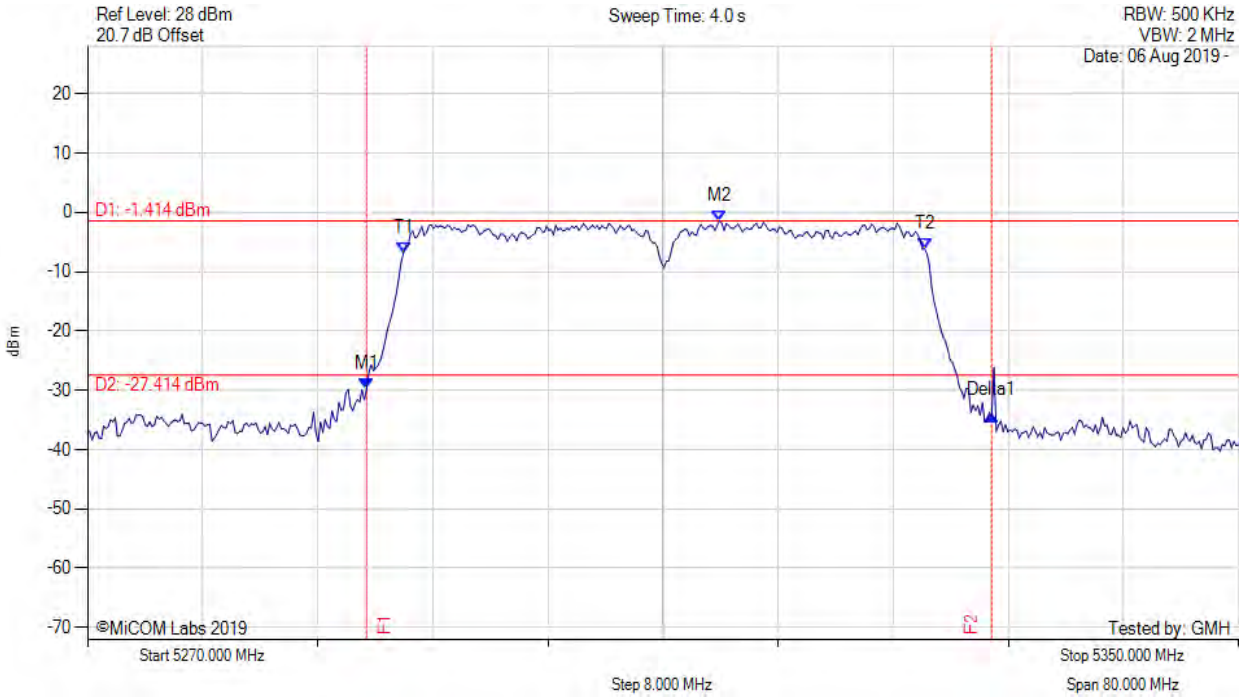
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

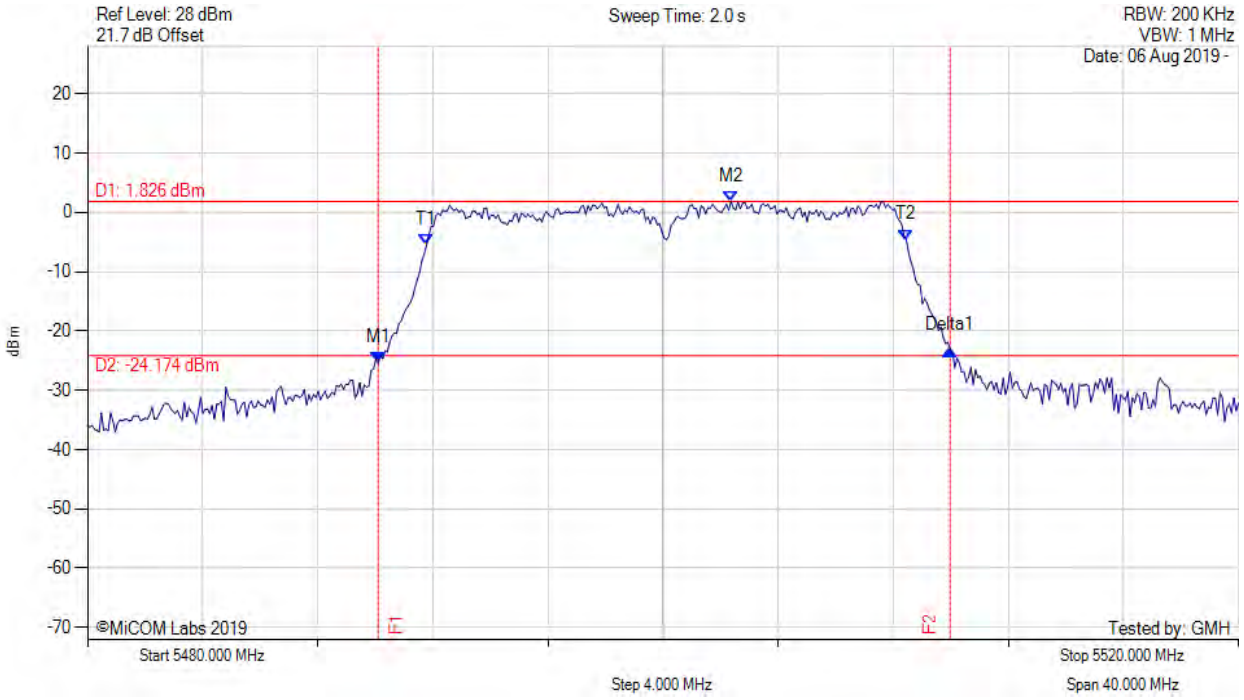



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5289.399 MHz : -29.813 dBm<br>M2 : 5313.928 MHz : -1.414 dBm<br>Delta1 : 43.447 MHz : -4.436 dB<br>T1 : 5291.964 MHz : -6.781 dBm<br>T2 : 5328.196 MHz : -6.140 dBm<br>OBW : 36.232 MHz | Measured 26 dB Bandwidth: 43.447 MHz<br>Measured 99% Bandwidth: 36.232 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

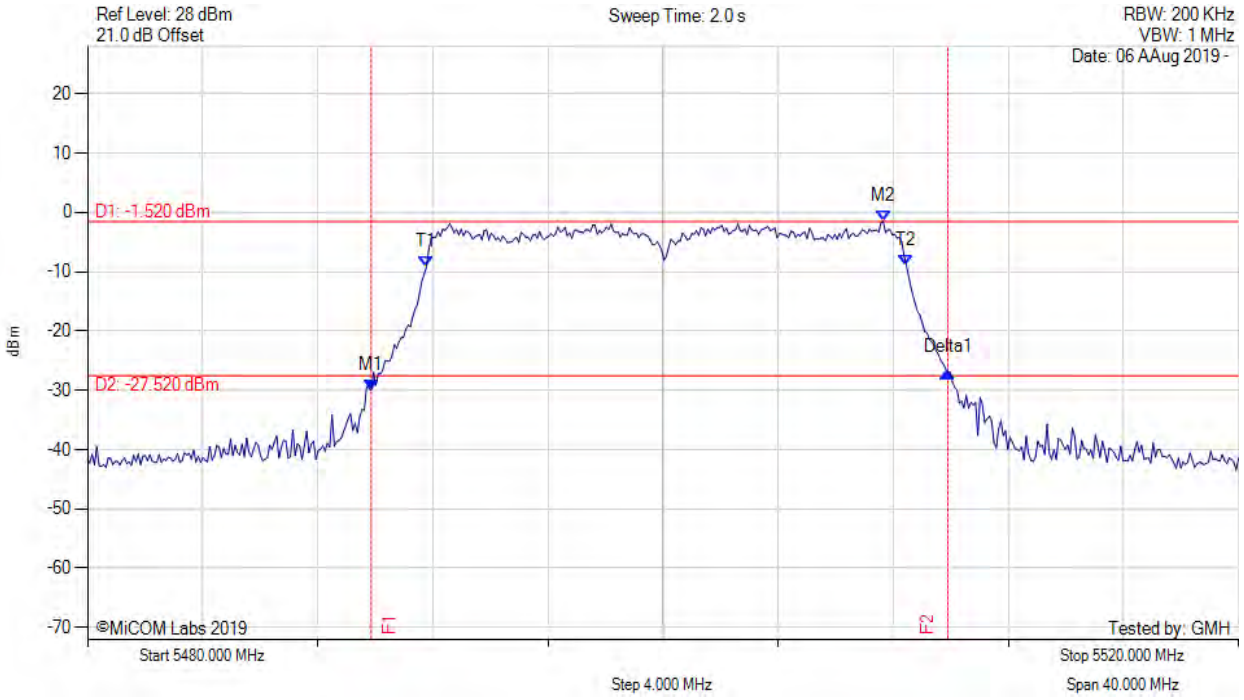



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5490.100 MHz : -25.400 dBm<br>M2 : 5502.365 MHz : 1.826 dBm<br>Delta1 : 19.880 MHz : 2.266 dB<br>T1 : 5491.784 MHz : -5.467 dBm<br>T2 : 5508.457 MHz : -4.644 dBm<br>OBW : 16.673 MHz | Measured 26 dB Bandwidth: 19.880 MHz<br>Measured 99% Bandwidth: 16.673 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

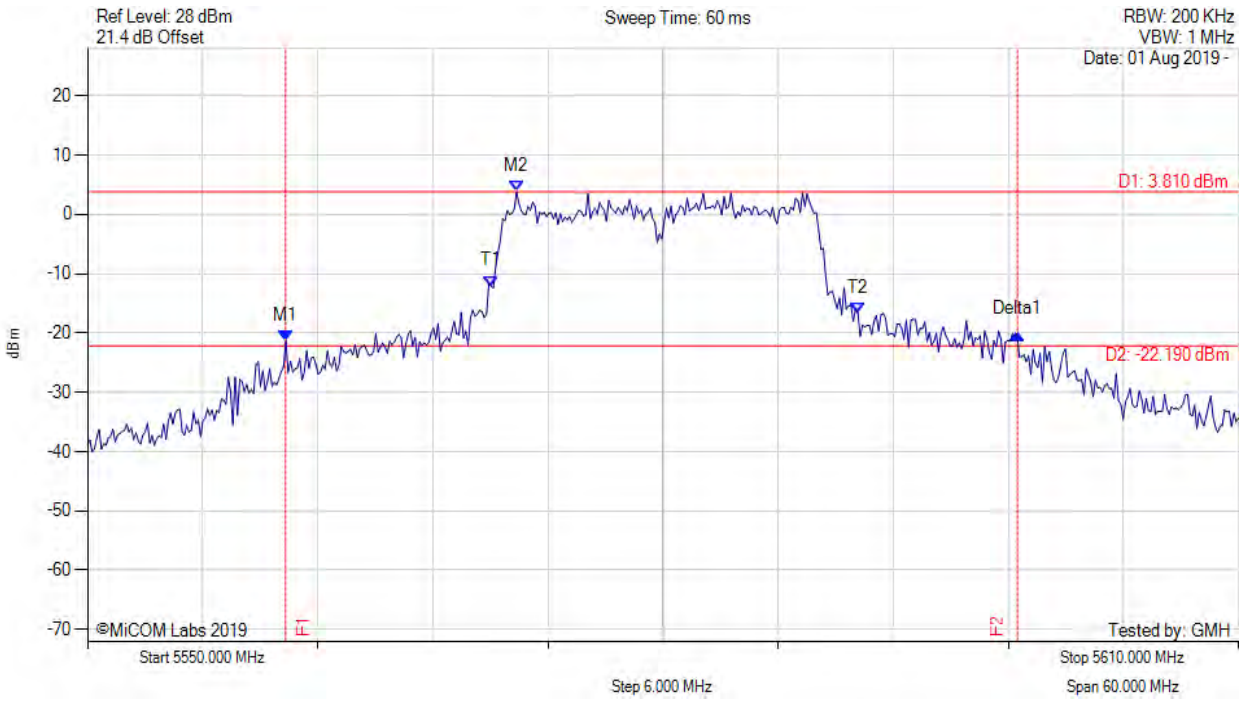



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5489.860 MHz : -29.974 dBm<br>M2 : 5507.655 MHz : -1.520 dBm<br>Delta1 : 20.040 MHz : 3.097 dB<br>T1 : 5491.784 MHz : -9.120 dBm<br>T2 : 5508.457 MHz : -8.856 dBm<br>OBW : 16.673 MHz | Measured 26 dB Bandwidth: 20.040 MHz<br>Measured 99% Bandwidth: 16.673 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5560.321 MHz : -21.314 dBm<br>M2 : 5572.365 MHz : 3.813 dBm<br>Delta1 : 38.156 MHz : 1.212 dB<br>T1 : 5571.042 MHz : -12.122 dBm<br>T2 : 5590.160 MHz : -16.594 dBm<br>OBW : 19.118 MHz | Measured 26 dB Bandwidth: 38.156 MHz<br>Measured 99% Bandwidth: 19.118 MHz |

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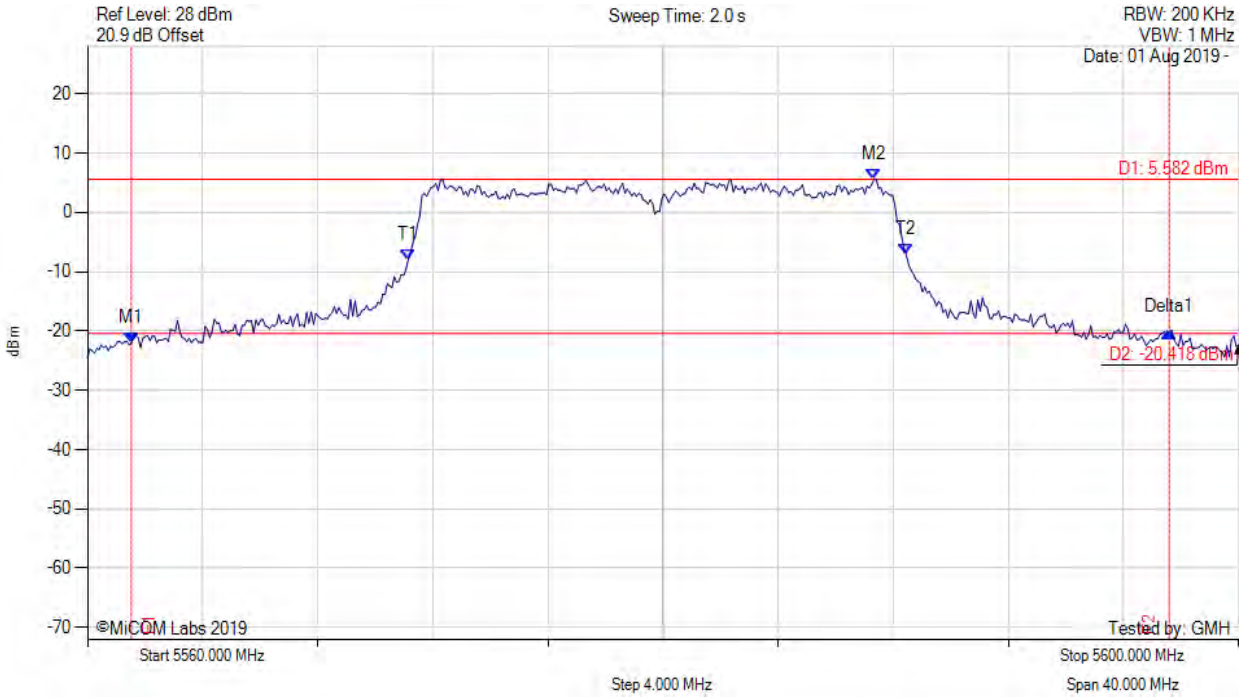
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5561.523 MHz : -22.061 dBm<br>M2 : 5587.335 MHz : 5.582 dBm<br>Delta1 : 36.072 MHz : 1.879 dB<br>T1 : 5571.142 MHz : -7.981 dBm<br>T2 : 5588.457 MHz : -7.184 dBm<br>OBW : 17.315 MHz | Measured 26 dB Bandwidth: 36.072 MHz<br>Measured 99% Bandwidth: 17.315 MHz |

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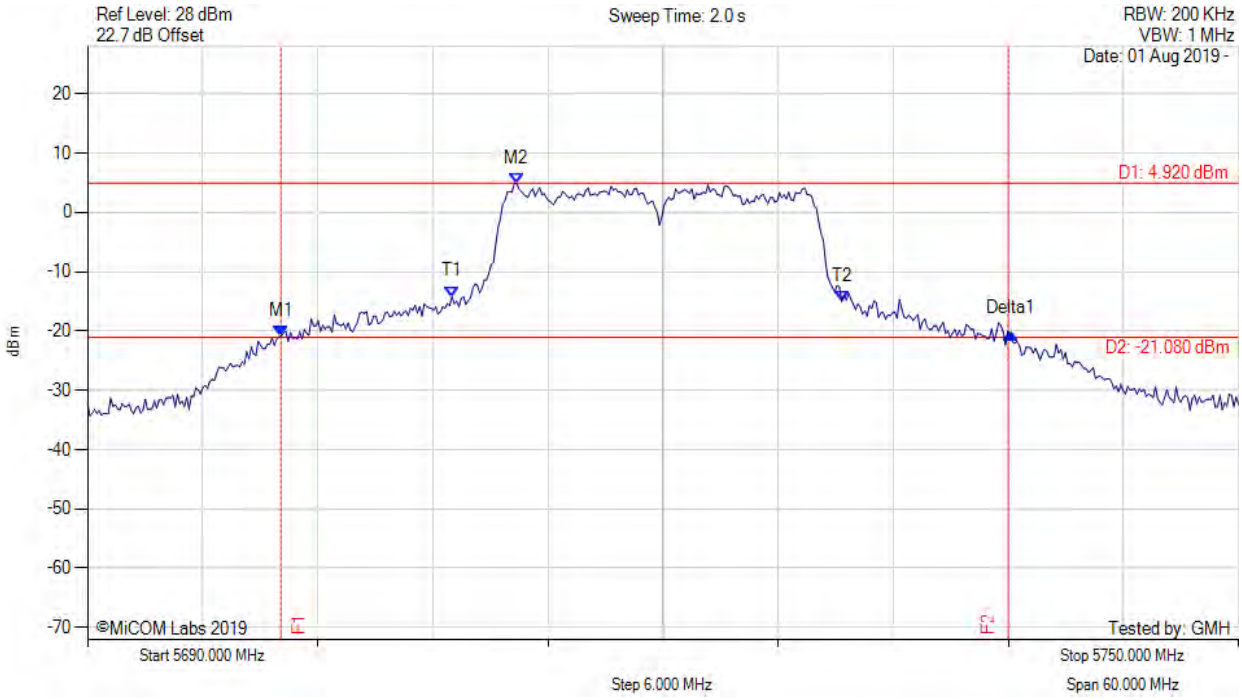
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5700.080 MHz : -20.792 dBm<br>M2 : 5712.365 MHz : 4.919 dBm<br>Delta1 : 38.036 MHz : 0.346 dB<br>T1 : 5708.998 MHz : -14.225 dBm<br>T2 : 5729.319 MHz : -15.022 dBm<br>OBW : 20.321 MHz | Measured 26 dB Bandwidth: 38.036 MHz<br>Measured 99% Bandwidth: 20.321 MHz |

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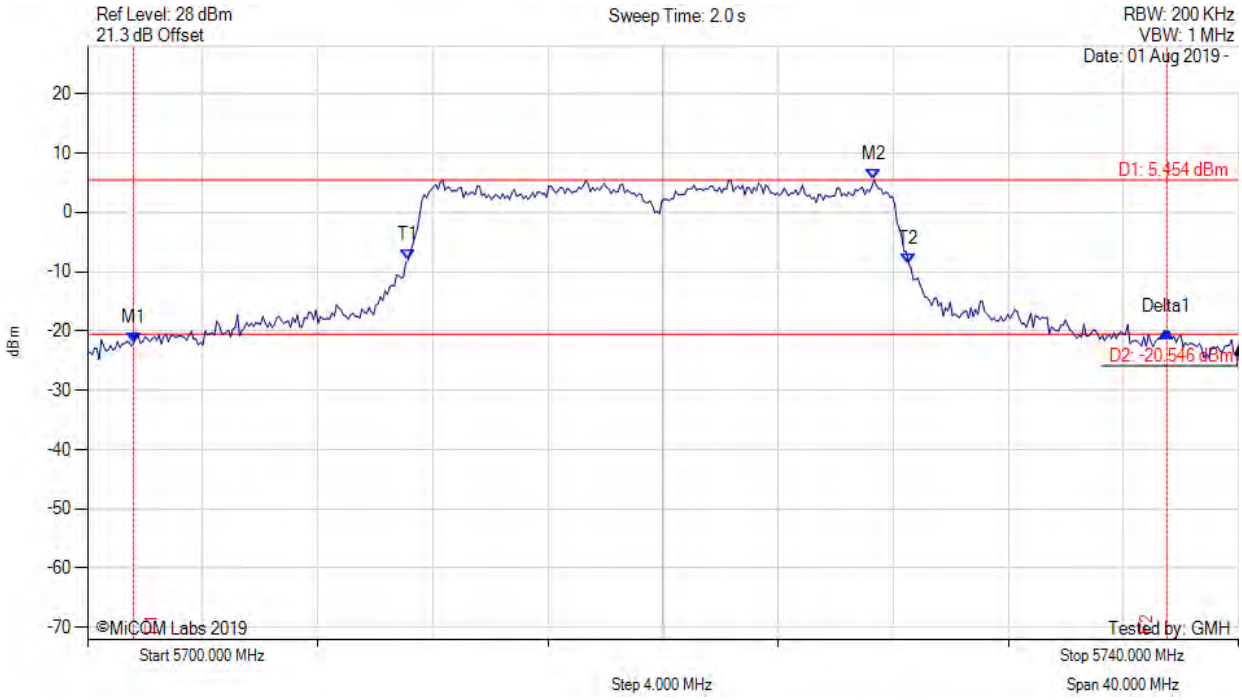
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5701.603 MHz : -22.063 dBm<br>M2 : 5727.335 MHz : 5.454 dBm<br>Delta1 : 35.912 MHz : 1.983 dB<br>T1 : 5711.142 MHz : -8.007 dBm<br>T2 : 5728.537 MHz : -8.622 dBm<br>OBW : 17.395 MHz | Measured 26 dB Bandwidth: 35.912 MHz<br>Measured 99% Bandwidth: 17.395 MHz |

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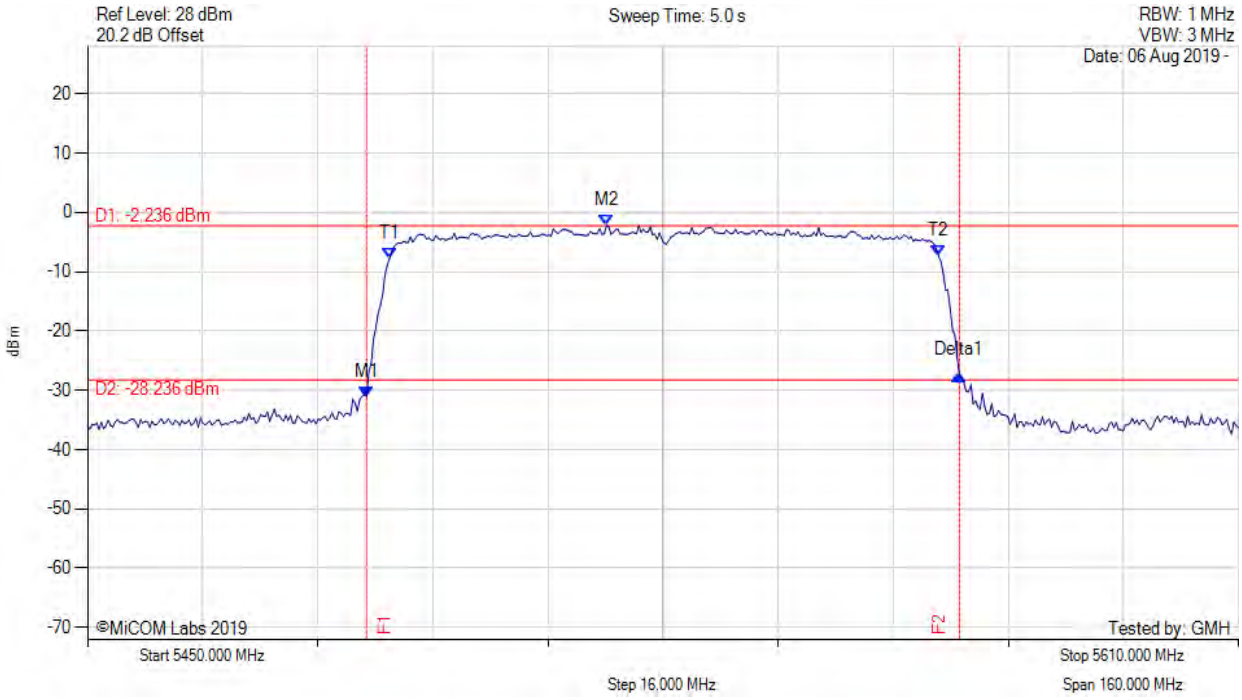
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

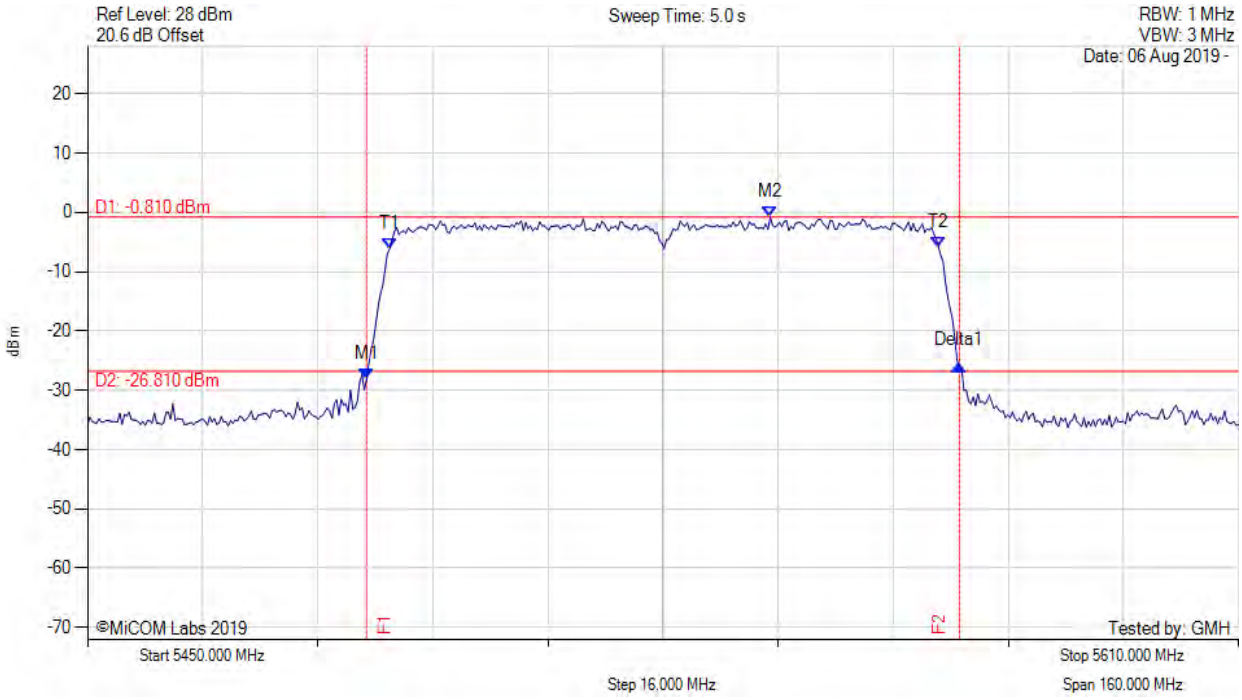



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5488.798 MHz : -31.054 dBm<br>M2 : 5522.144 MHz : -2.236 dBm<br>Delta1 : 82.405 MHz : 3.555 dB<br>T1 : 5492.004 MHz : -7.755 dBm<br>T2 : 5568.317 MHz : -7.365 dBm<br>OBW : 76.313 MHz | Measured 26 dB Bandwidth: 82.405 MHz<br>Measured 99% Bandwidth: 76.313 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5488.798 MHz : -28.152 dBm<br>M2 : 5544.910 MHz : -0.810 dBm<br>Delta1 : 82.405 MHz : 2.268 dB<br>T1 : 5492.004 MHz : -6.120 dBm<br>T2 : 5568.317 MHz : -5.864 dBm<br>OBW : 76.313 MHz | Measured 26 dB Bandwidth: 82.405 MHz<br>Measured 99% Bandwidth: 76.313 MHz |

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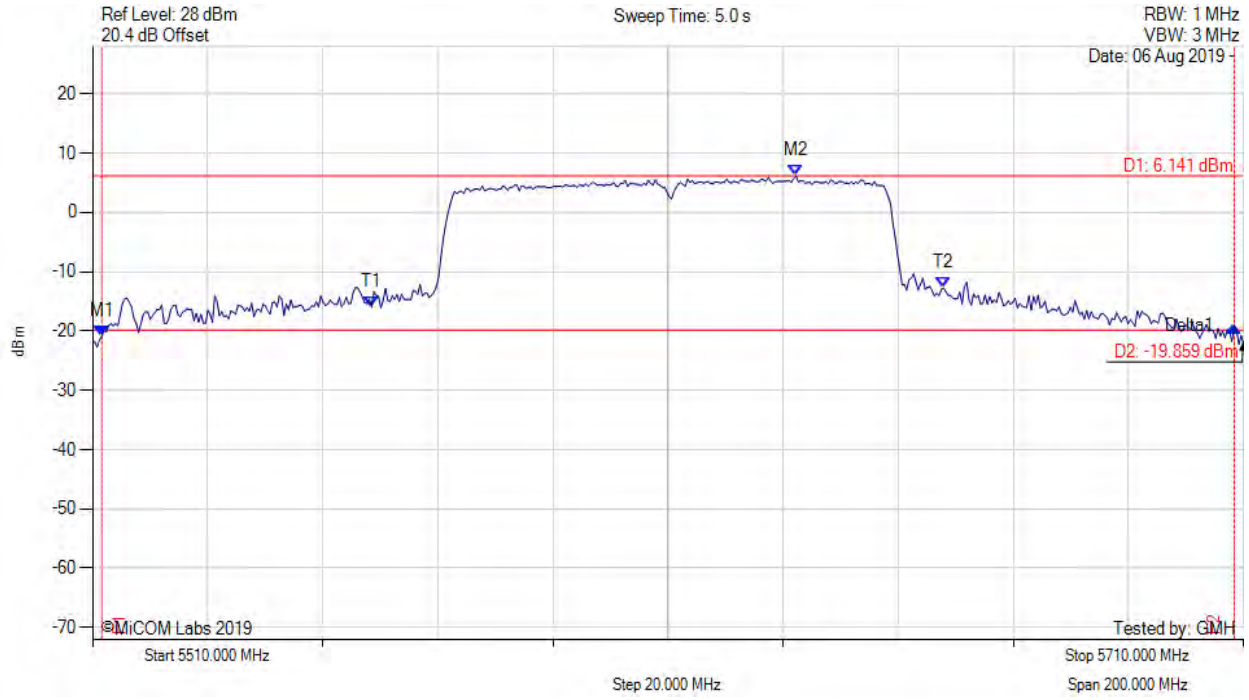
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5511.603 MHz : -20.918 dBm<br>M2 : 5632.244 MHz : 6.141 dBm<br>Delta1 : 196.794 MHz : 1.729 dB<br>T1 : 5558.497 MHz : -15.961 dBm<br>T2 : 5657.896 MHz : -12.768 dBm<br>OBW : 99.399 MHz | Measured 26 dB Bandwidth: 196.794 MHz<br>Measured 99% Bandwidth: 99.399 MHz |

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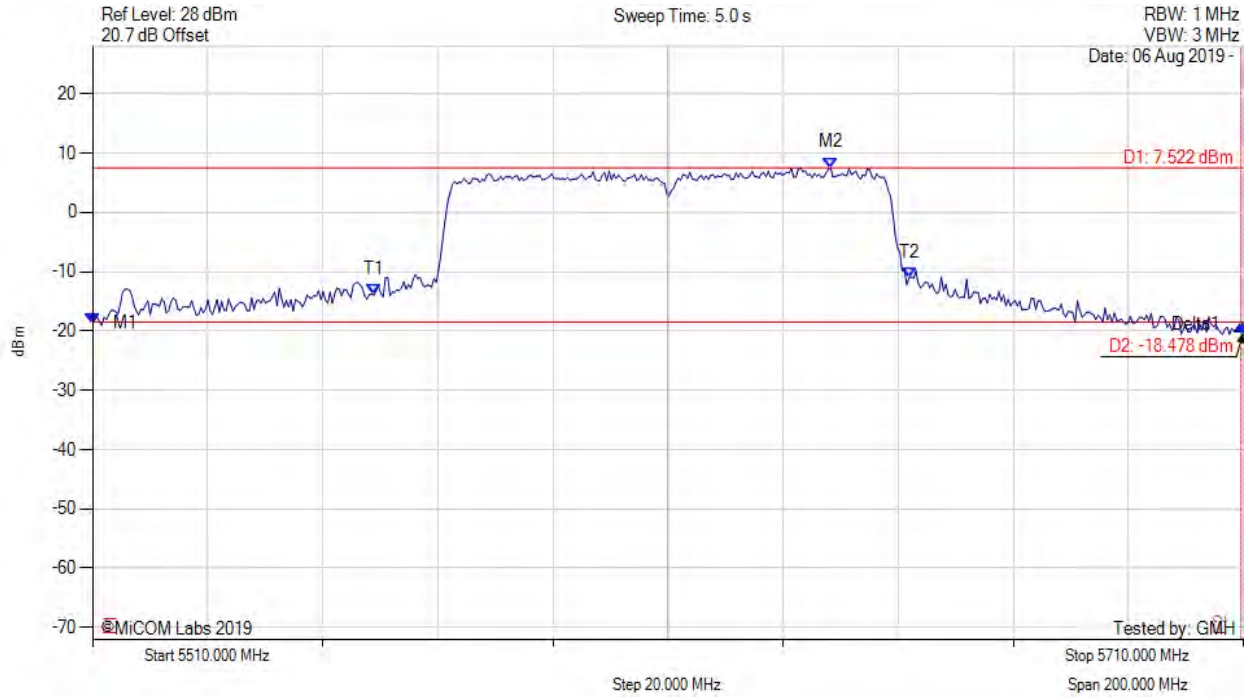
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5510.000 MHz : -18.697 dBm<br>M2 : 5638.257 MHz : 7.522 dBm<br>Delta1 : 199.599 MHz : -0.224 dB<br>T1 : 5558.898 MHz : -13.938 dBm<br>T2 : 5651.884 MHz : -11.111 dBm<br>OBW : 92.986 MHz | Measured 26 dB Bandwidth: 199.599 MHz<br>Measured 99% Bandwidth: 92.986 MHz |

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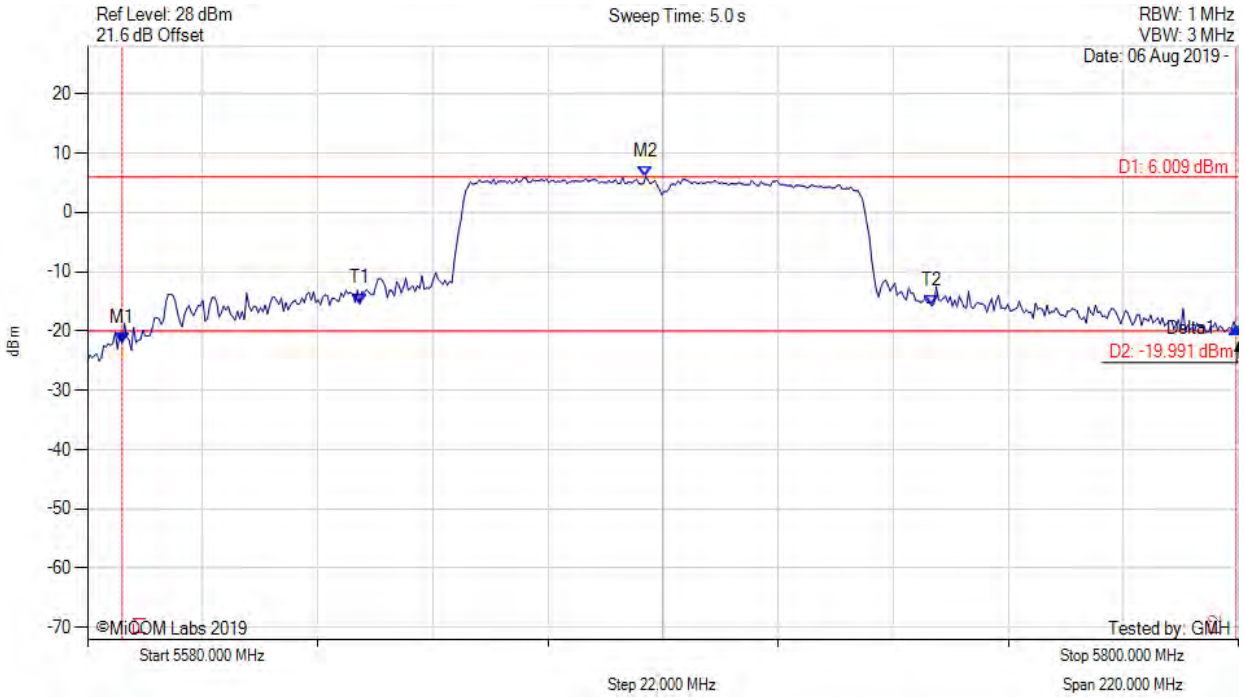
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5586.613 MHz : -22.014 dBm<br>M2 : 5686.693 MHz : 6.009 dBm<br>Delta1 : 212.946 MHz : 2.508 dB<br>T1 : 5632.024 MHz : -15.390 dBm<br>T2 : 5741.363 MHz : -15.724 dBm<br>OBW : 109.339 MHz | Channel Frequency: 5690.00 MHz |

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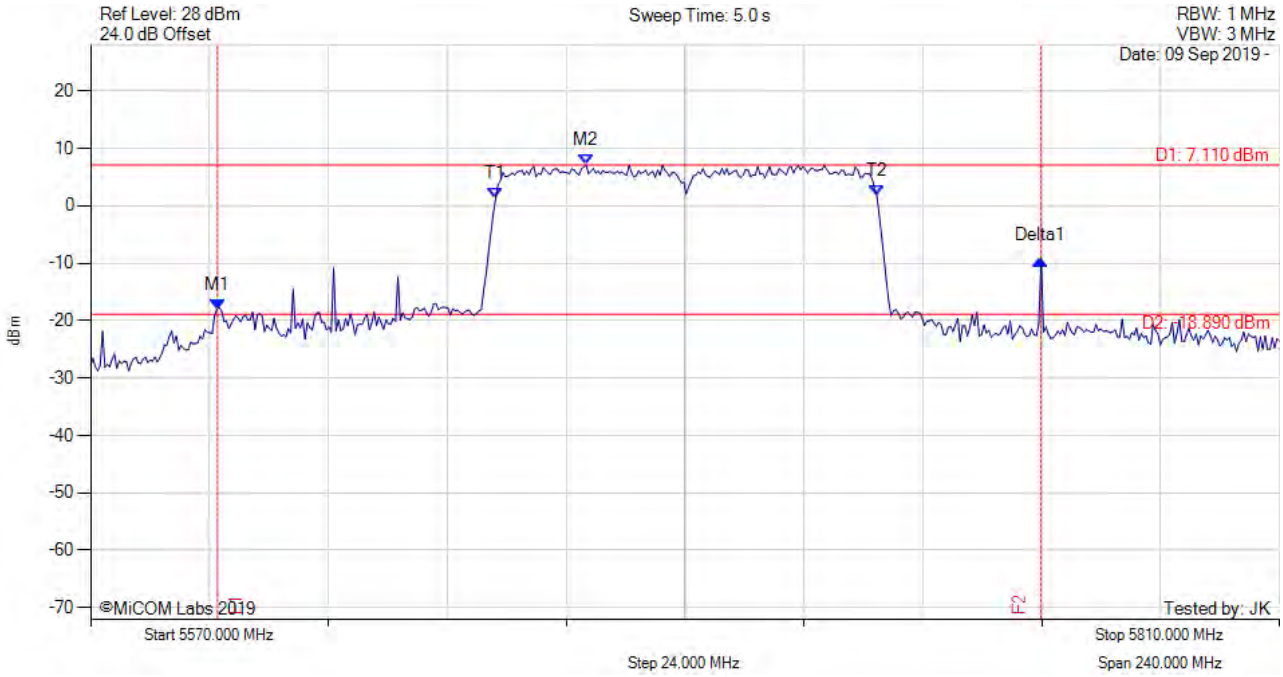
## 26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5595.571 MHz : -17.969 dBm<br>M2 : 5670.040 MHz : 7.111 dBm<br>Delta1 : 166.253 MHz : 8.530 dB<br>T1 : 5651.764 MHz : 1.281 dBm<br>T2 : 5728.717 MHz : 1.755 dBm<br>OBW : 76.954 MHz | Measured 26 dB Bandwidth: 166.253 MHz<br>Measured 99% Bandwidth: 76.954 MHz |

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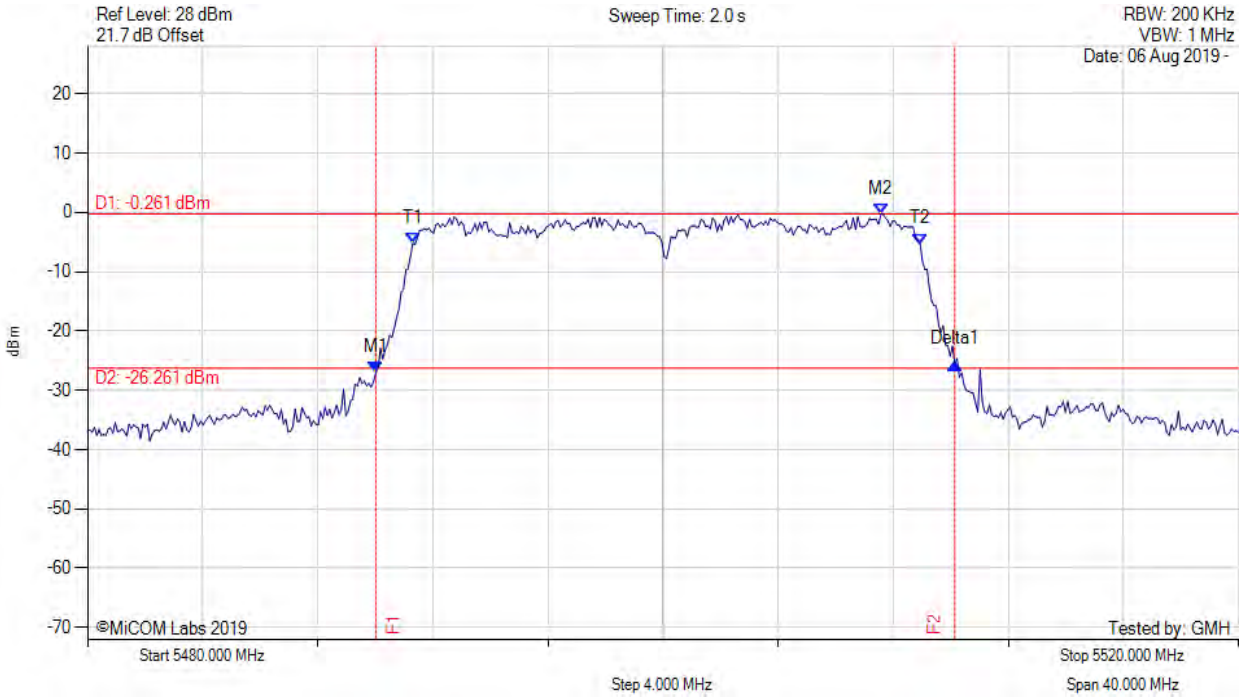
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5490.020 MHz : -27.001 dBm<br>M2 : 5507.575 MHz : -0.261 dBm<br>Delta1 : 20.120 MHz : 1.538 dB<br>T1 : 5491.303 MHz : -5.266 dBm<br>T2 : 5508.938 MHz : -5.343 dBm<br>OBW : 17.635 MHz | Measured 26 dB Bandwidth: 20.120 MHz<br>Measured 99% Bandwidth: 17.635 MHz |

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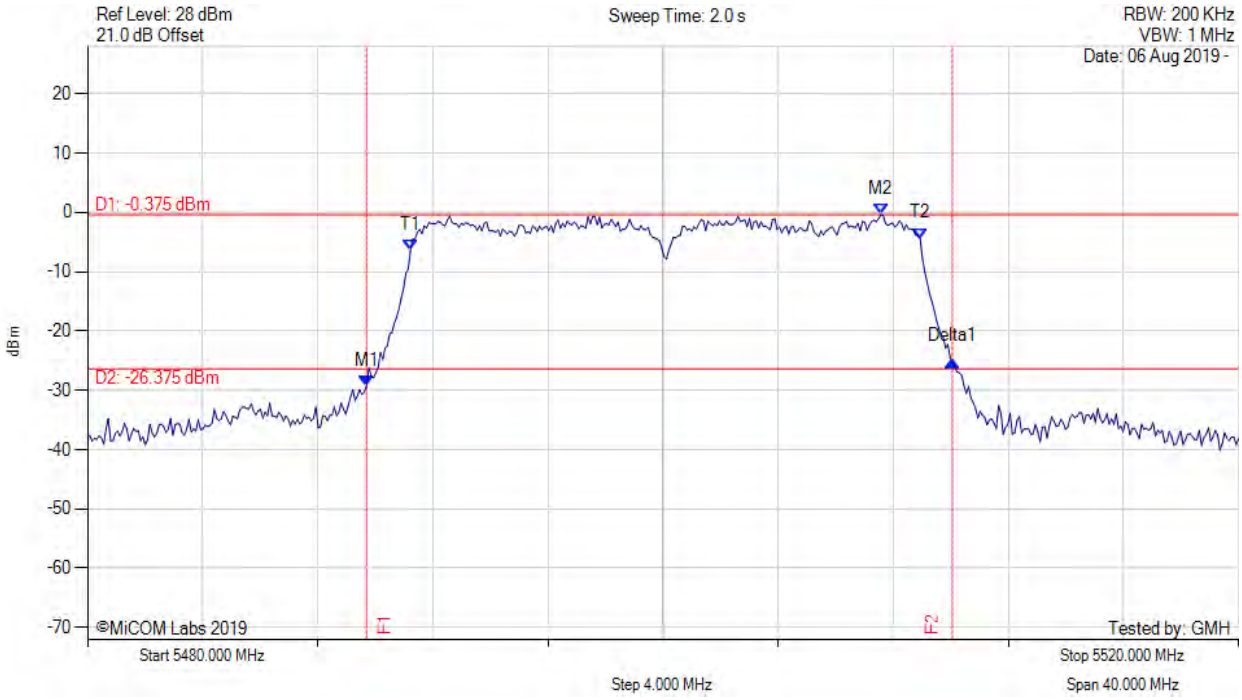
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5489.699 MHz : -29.205 dBm<br>M2 : 5507.575 MHz : -0.375 dBm<br>Delta1 : 20.361 MHz : 4.090 dB<br>T1 : 5491.222 MHz : -6.480 dBm<br>T2 : 5508.938 MHz : -4.396 dBm<br>OBW : 17.715 MHz | Measured 26 dB Bandwidth: 20.361 MHz<br>Measured 99% Bandwidth: 17.715 MHz |

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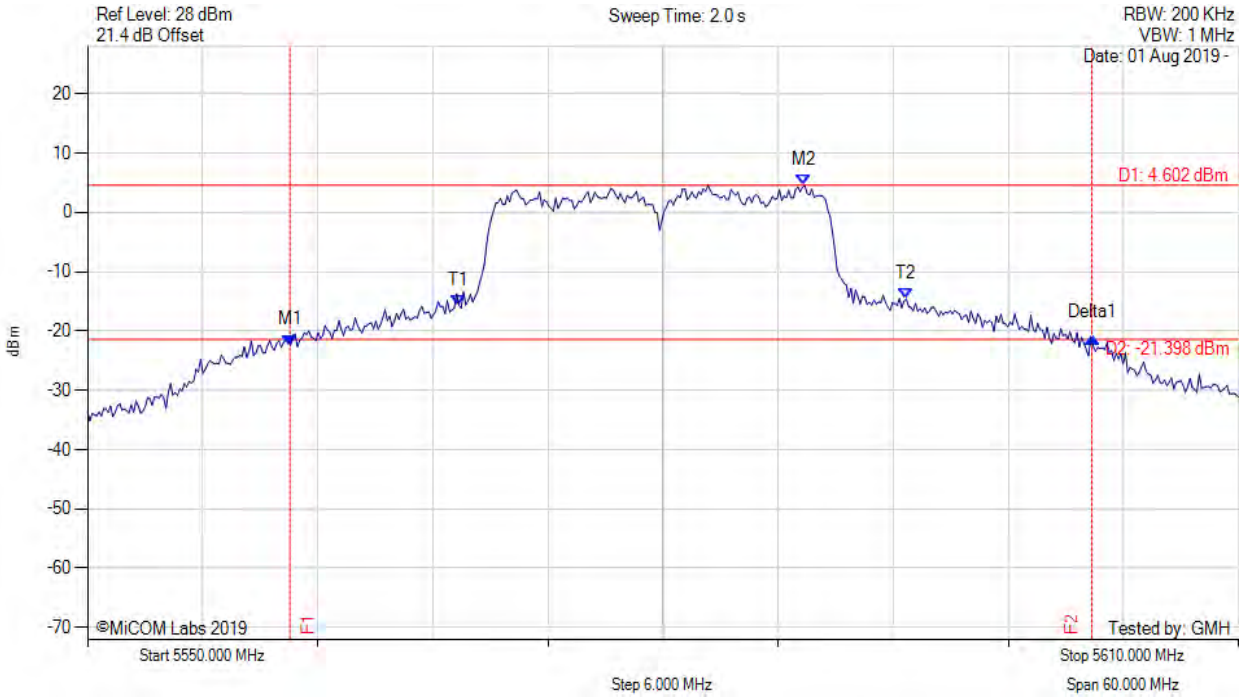
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

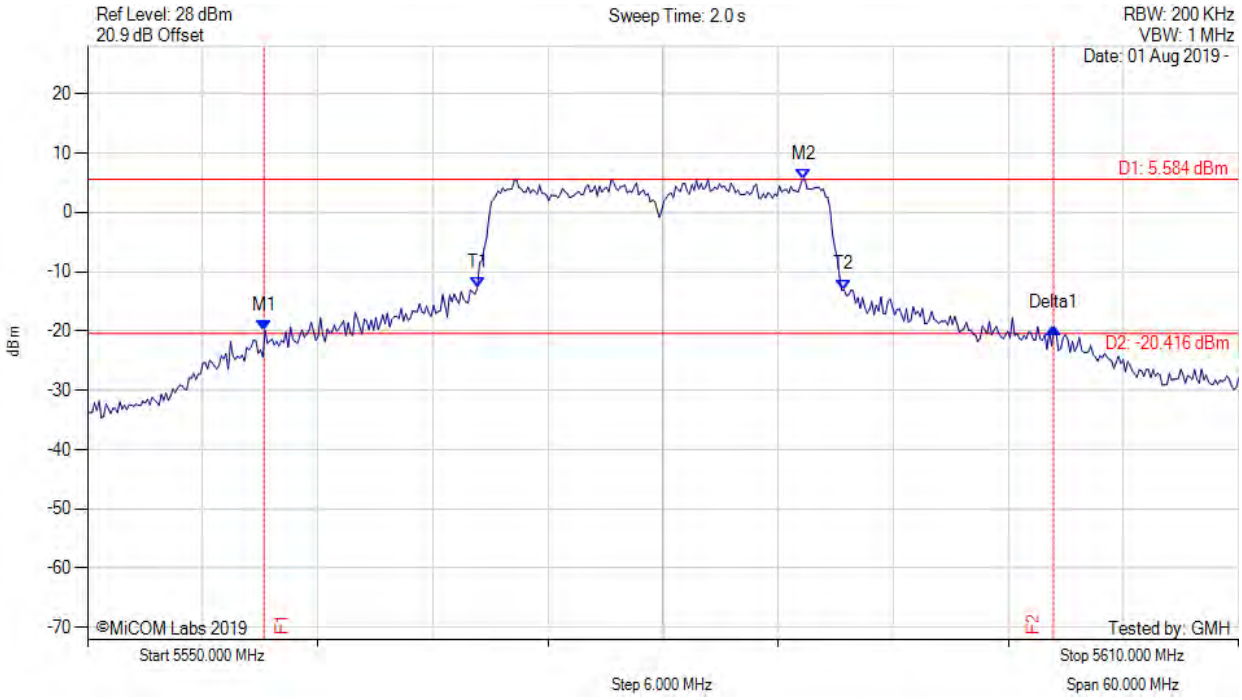



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5560.561 MHz : -22.388 dBm<br>M2 : 5587.335 MHz : 4.541 dBm<br>Delta1 : 41.804 MHz : 1.326 dB<br>T1 : 5569.359 MHz : -15.681 dBm<br>T2 : 5592.685 MHz : -14.615 dBm<br>OBW : 23.327 MHz | Measured 26 dB Bandwidth: 41.804 MHz<br>Measured 99% Bandwidth: 23.327 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

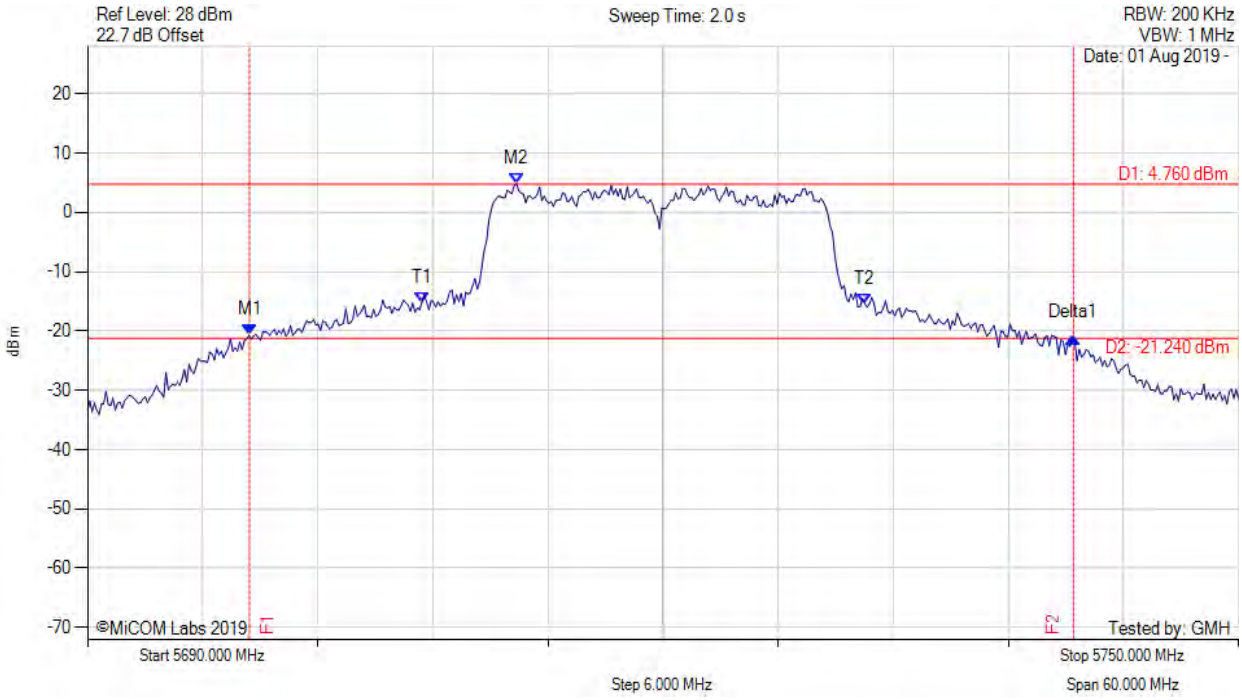



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5559.198 MHz : -19.905 dBm<br>M2 : 5587.335 MHz : 5.539 dBm<br>Delta1 : 41.162 MHz : 0.496 dB<br>T1 : 5570.321 MHz : -12.768 dBm<br>T2 : 5589.439 MHz : -13.053 dBm<br>OBW : 19.118 MHz | Measured 26 dB Bandwidth: 41.162 MHz<br>Measured 99% Bandwidth: 19.118 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

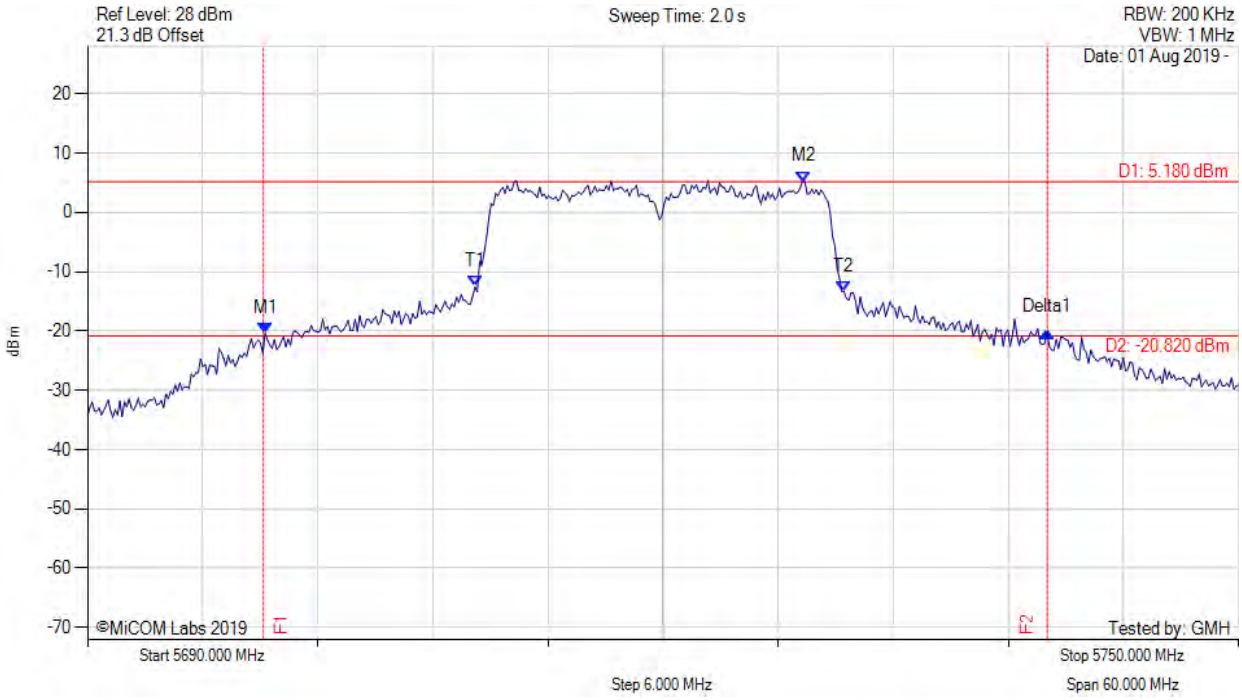



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5698.477 MHz : -20.706 dBm<br>M2 : 5712.345 MHz : 4.791 dBm<br>Delta1 : 42.926 MHz : -0.435 dB<br>T1 : 5707.435 MHz : -15.185 dBm<br>T2 : 5730.521 MHz : -15.396 dBm<br>OBW : 23.086 MHz | Measured 26 dB Bandwidth: 42.926 MHz<br>Measured 99% Bandwidth: 23.086 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

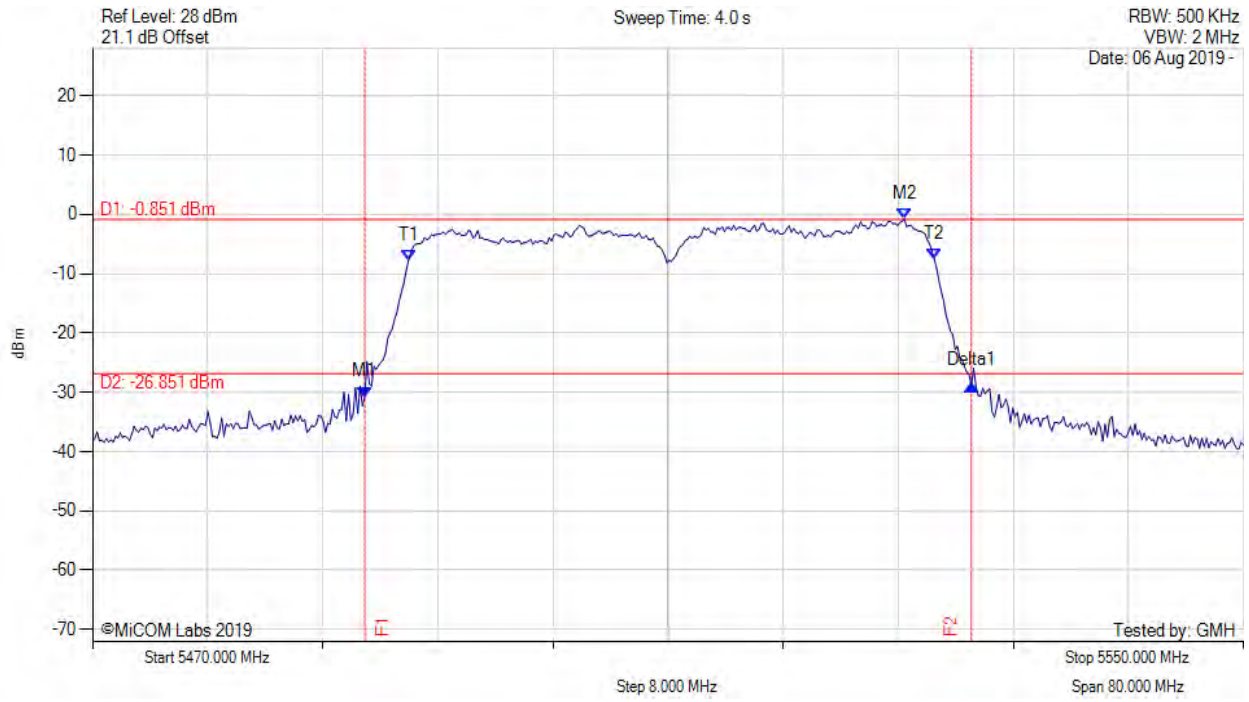



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5699.279 MHz : -20.411 dBm<br>M2 : 5727.335 MHz : 5.183 dBm<br>Delta1 : 40.762 MHz : 0.291 dB<br>T1 : 5710.200 MHz : -12.559 dBm<br>T2 : 5729.439 MHz : -13.431 dBm<br>OBW : 19.238 MHz | Measured 26 dB Bandwidth: 40.762 MHz<br>Measured 99% Bandwidth: 19.238 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

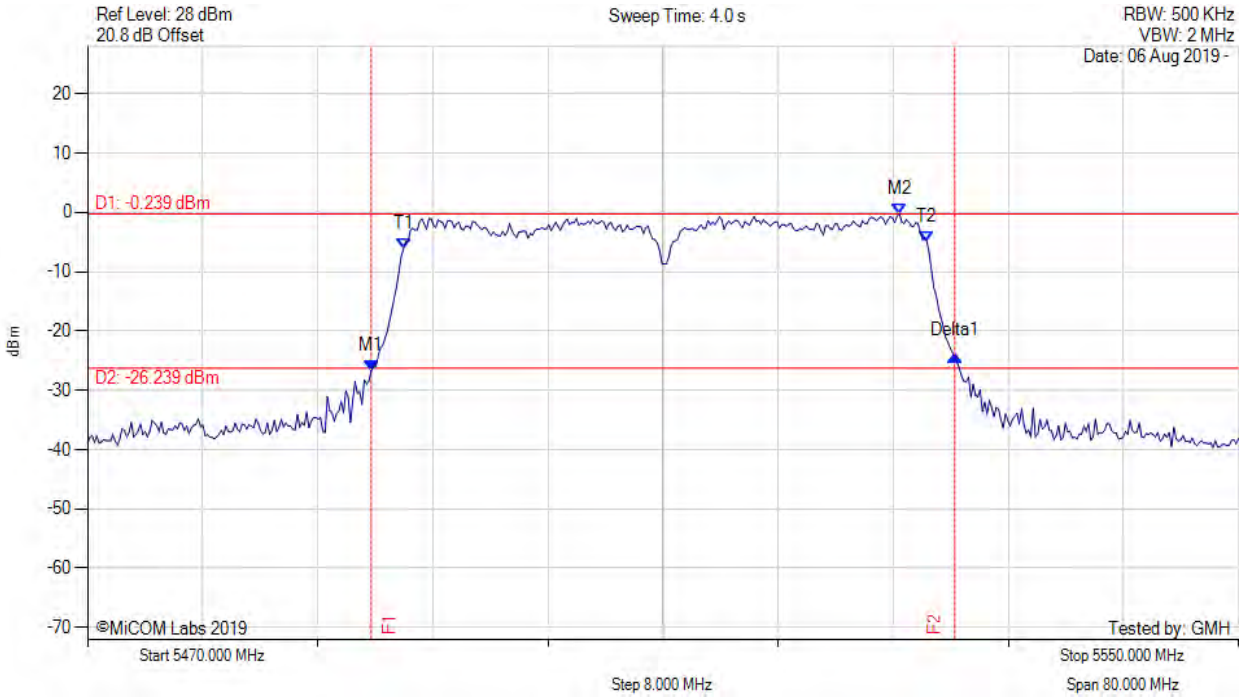



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5488.918 MHz : -30.812 dBm<br>M2 : 5526.433 MHz : -0.851 dBm<br>Delta1 : 42.164 MHz : 1.906 dB<br>T1 : 5491.964 MHz : -7.711 dBm<br>T2 : 5528.517 MHz : -7.554 dBm<br>OBW : 36.553 MHz | Measured 26 dB Bandwidth: 42.164 MHz<br>Measured 99% Bandwidth: 36.553 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

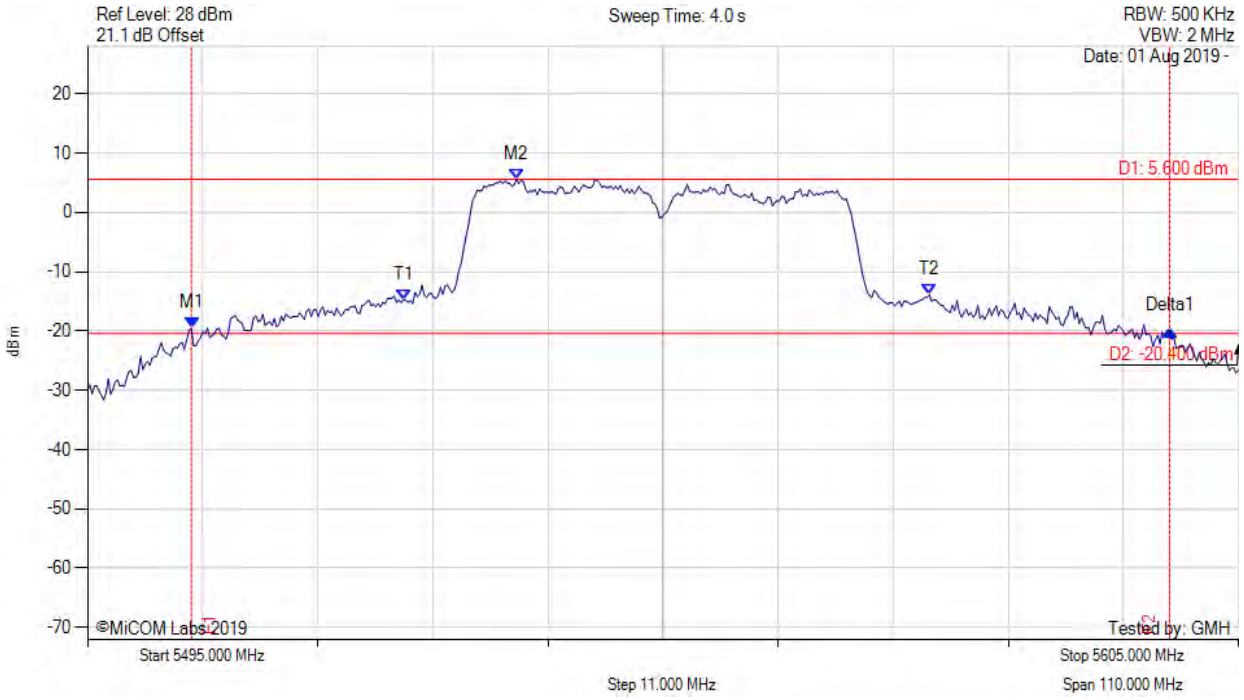



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5489.719 MHz : -26.683 dBm<br>M2 : 5526.433 MHz : -0.239 dBm<br>Delta1 : 40.561 MHz : 2.449 dB<br>T1 : 5491.964 MHz : -6.073 dBm<br>T2 : 5528.357 MHz : -4.930 dBm<br>OBW : 36.393 MHz | Measured 26 dB Bandwidth: 40.561 MHz<br>Measured 99% Bandwidth: 36.393 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

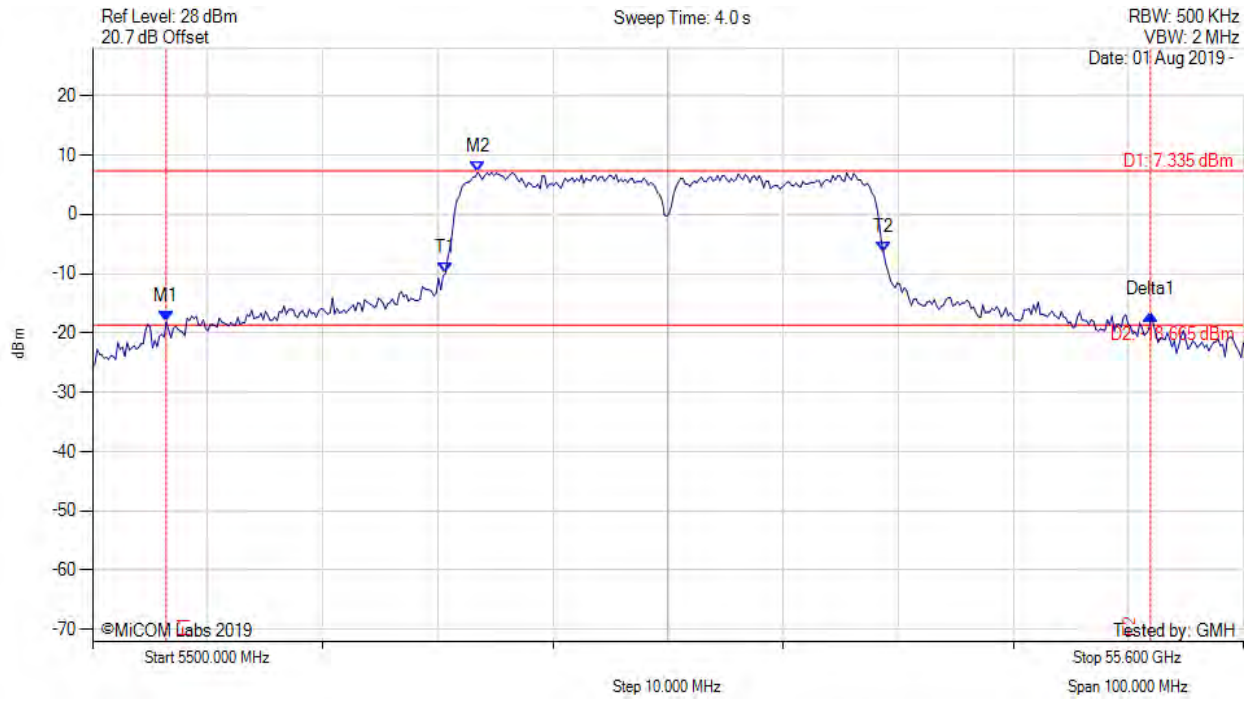



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5505.030 MHz : -19.567 dBm<br>M2 : 5536.002 MHz : 5.598 dBm<br>Delta1 : 93.407 MHz : -0.295 dB<br>T1 : 5525.200 MHz : -14.741 dBm<br>T2 : 5575.461 MHz : -13.913 dBm<br>OBW : 50.261 MHz | Measured 26 dB Bandwidth: 93.407 MHz<br>Measured 99% Bandwidth: 50.261 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

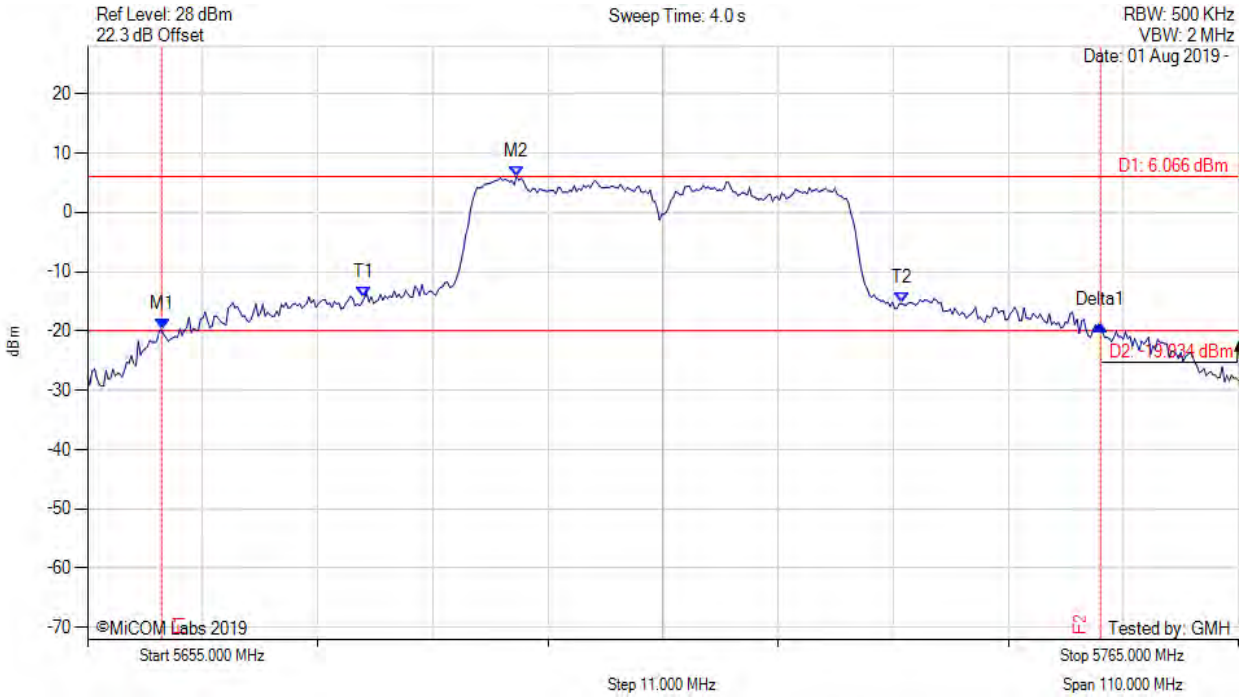



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5506.393 MHz : -18.127 dBm<br>M2 : 5533.467 MHz : 7.081 dBm<br>Delta1 : 85.531 MHz : 1.173 dB<br>T1 : 5530.661 MHz : -9.944 dBm<br>T2 : 5568.737 MHz : -6.470 dBm<br>OBW : 38.076 MHz | Measured 26 dB Bandwidth: 85.531 MHz<br>Measured 99% Bandwidth: 38.076 MHz |

back to matrix

## 26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

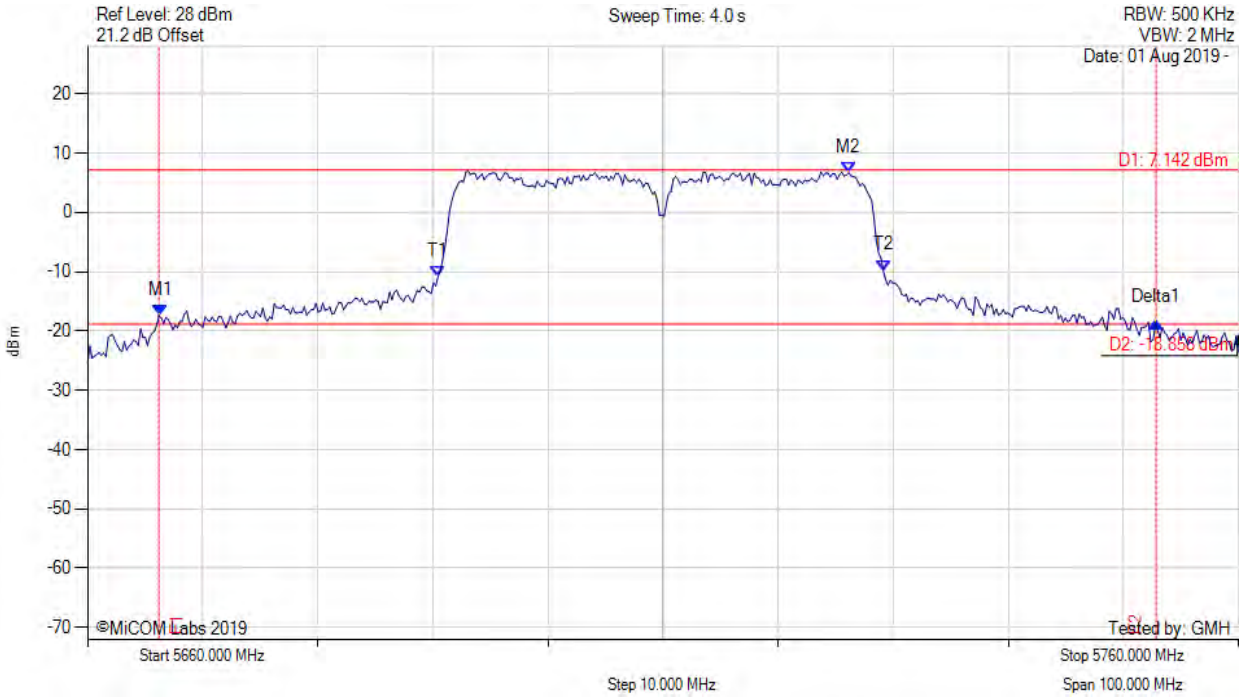



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5662.164 MHz : -19.773 dBm<br>M2 : 5696.002 MHz : 6.078 dBm<br>Delta1 : 89.659 MHz : 0.740 dB<br>T1 : 5681.453 MHz : -14.426 dBm<br>T2 : 5732.816 MHz : -15.359 dBm<br>OBW : 51.363 MHz | Measured 26 dB Bandwidth: 89.659 MHz<br>Measured 99% Bandwidth: 51.363 MHz |

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5666.313 MHz : -17.393 dBm<br>M2 : 5726.112 MHz : 6.711 dBm<br>Delta1 : 86.533 MHz : -1.220 dB<br>T1 : 5690.461 MHz : -10.775 dBm<br>T2 : 5729.138 MHz : -9.777 dBm<br>OBW : 38.677 MHz | Measured 26 dB Bandwidth: 86.533 MHz<br>Measured 99% Bandwidth: 38.677 MHz |

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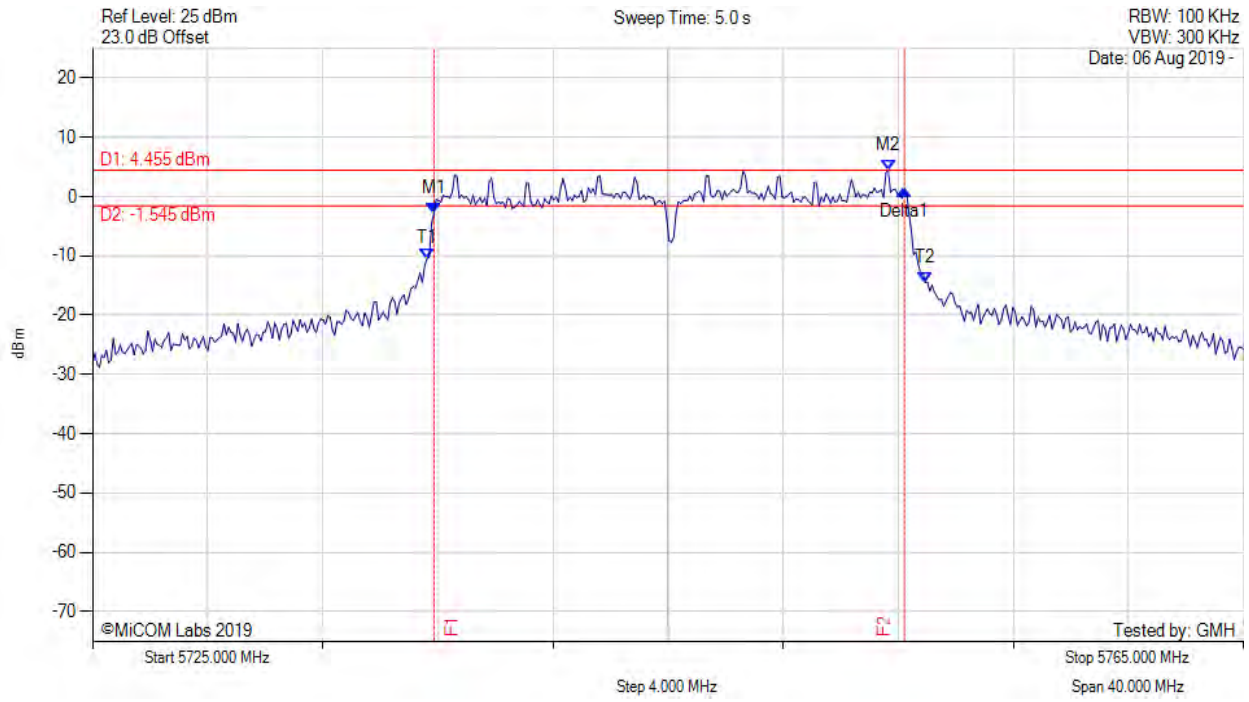
## A.2. 6 dB & 99% Bandwidth

6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

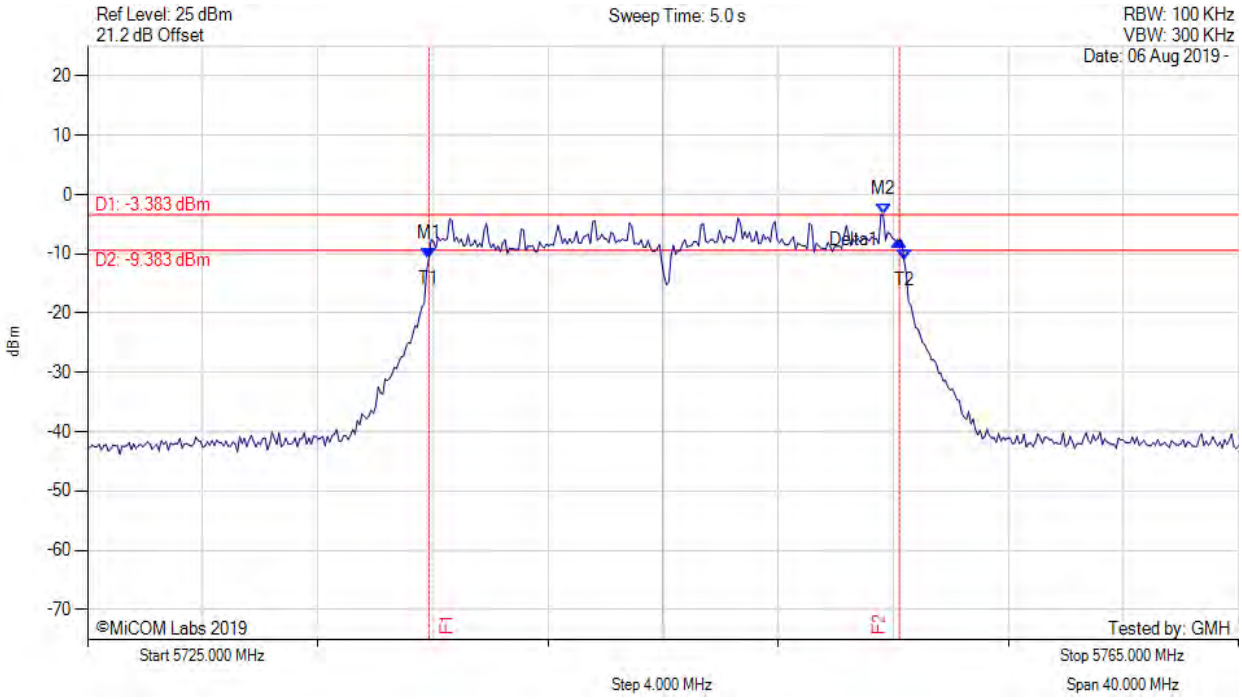



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5736.864 MHz : -2.870 dBm<br>M2 : 5752.655 MHz : 4.455 dBm<br>Delta1 : 16.353 MHz : 3.958 dB<br>T1 : 5736.623 MHz : -10.473 dBm<br>T2 : 5753.938 MHz : -14.491 dBm<br>OBW : 17.315 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 17.315 MHz |

back to matrix

## 6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5736.864 MHz : -10.741 dBm<br>M2 : 5752.655 MHz : -3.383 dBm<br>Delta1 : 16.353 MHz : 3.091 dB<br>T1 : 5736.864 MHz : -10.741 dBm<br>T2 : 5753.377 MHz : -10.916 dBm<br>OBW : 16.513 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 16.513 MHz |

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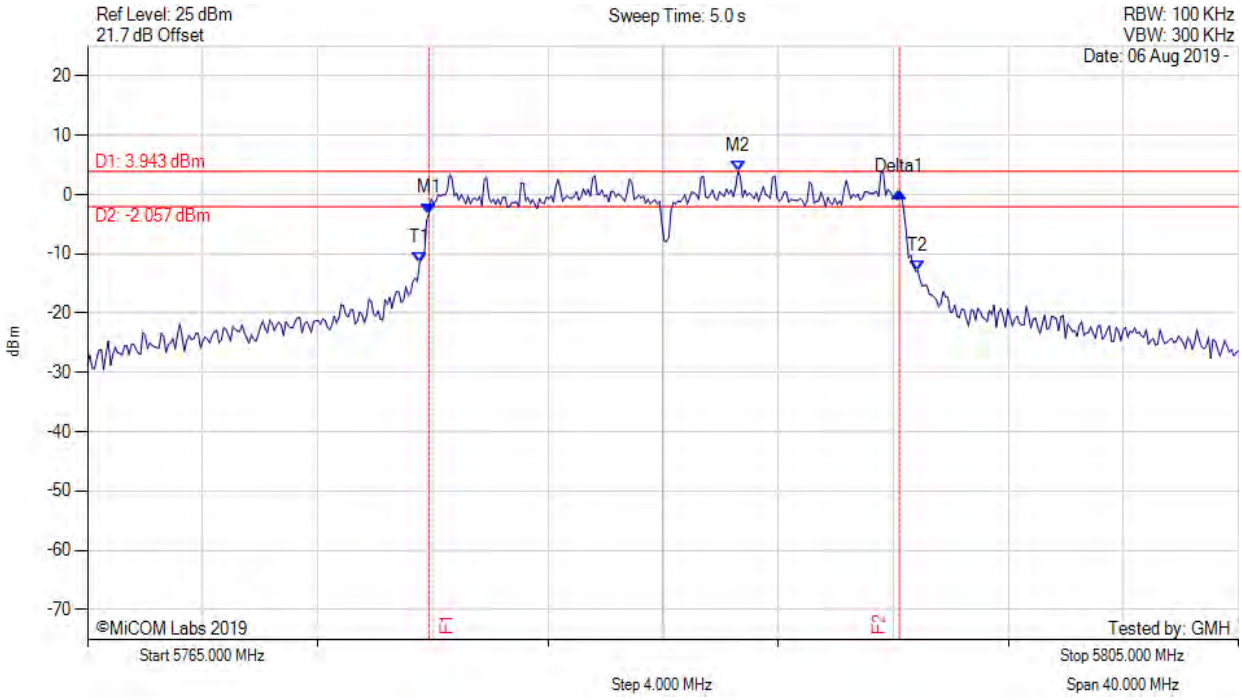
## 6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

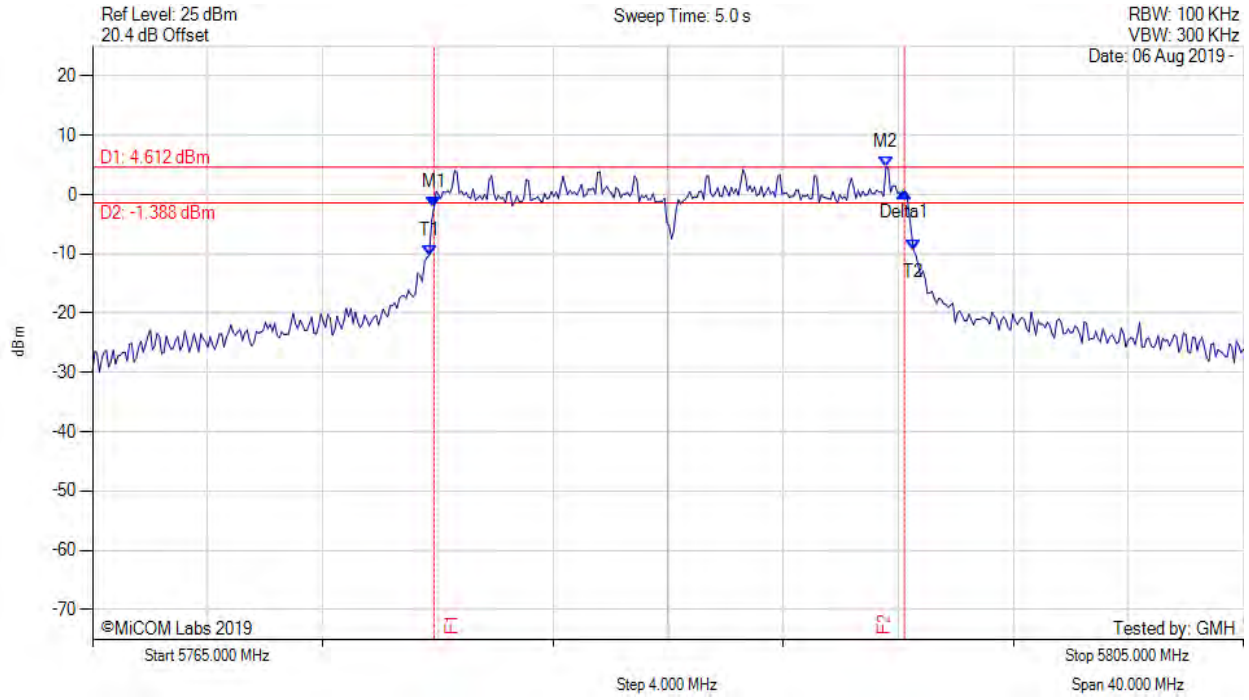



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5776.864 MHz : -3.202 dBm<br>M2 : 5787.605 MHz : 3.943 dBm<br>Delta1 : 16.353 MHz : 3.549 dB<br>T1 : 5776.543 MHz : -11.418 dBm<br>T2 : 5793.858 MHz : -12.848 dBm<br>OBW : 17.315 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 17.315 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

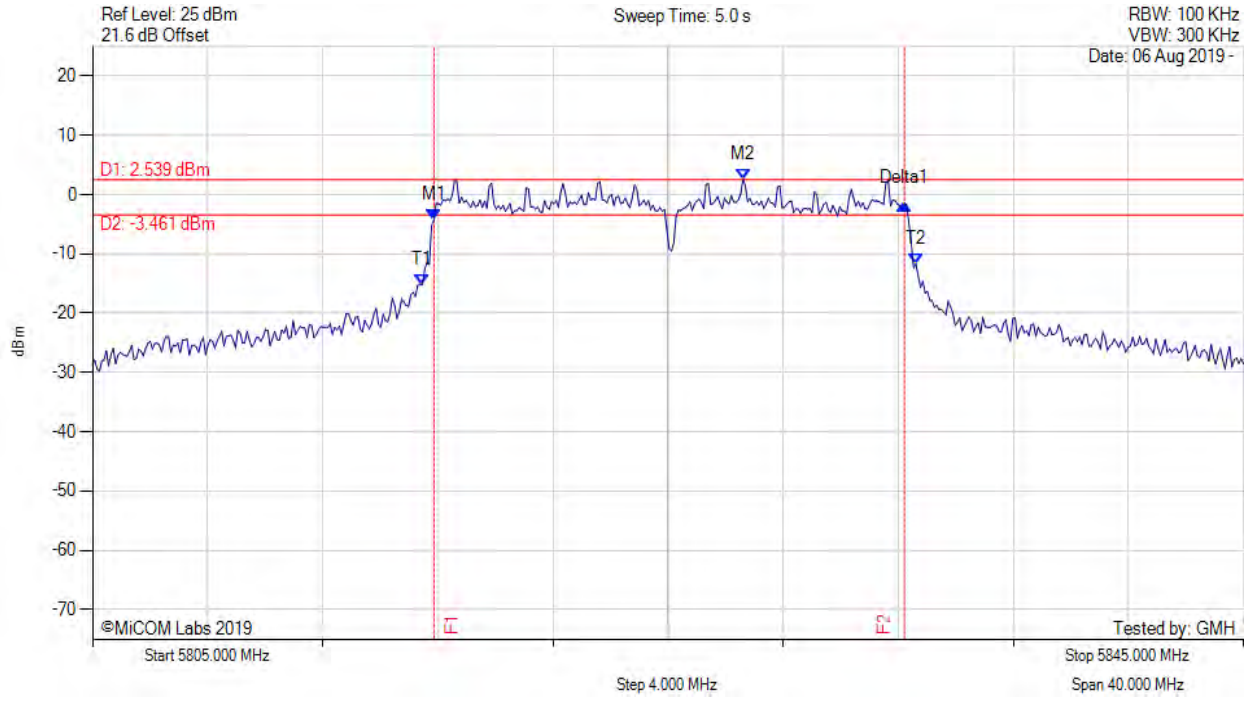



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5776.864 MHz : -2.232 dBm<br>M2 : 5792.575 MHz : 4.612 dBm<br>Delta1 : 16.353 MHz : 2.748 dB<br>T1 : 5776.703 MHz : -10.288 dBm<br>T2 : 5793.537 MHz : -9.403 dBm<br>OBW : 16.834 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 16.834 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

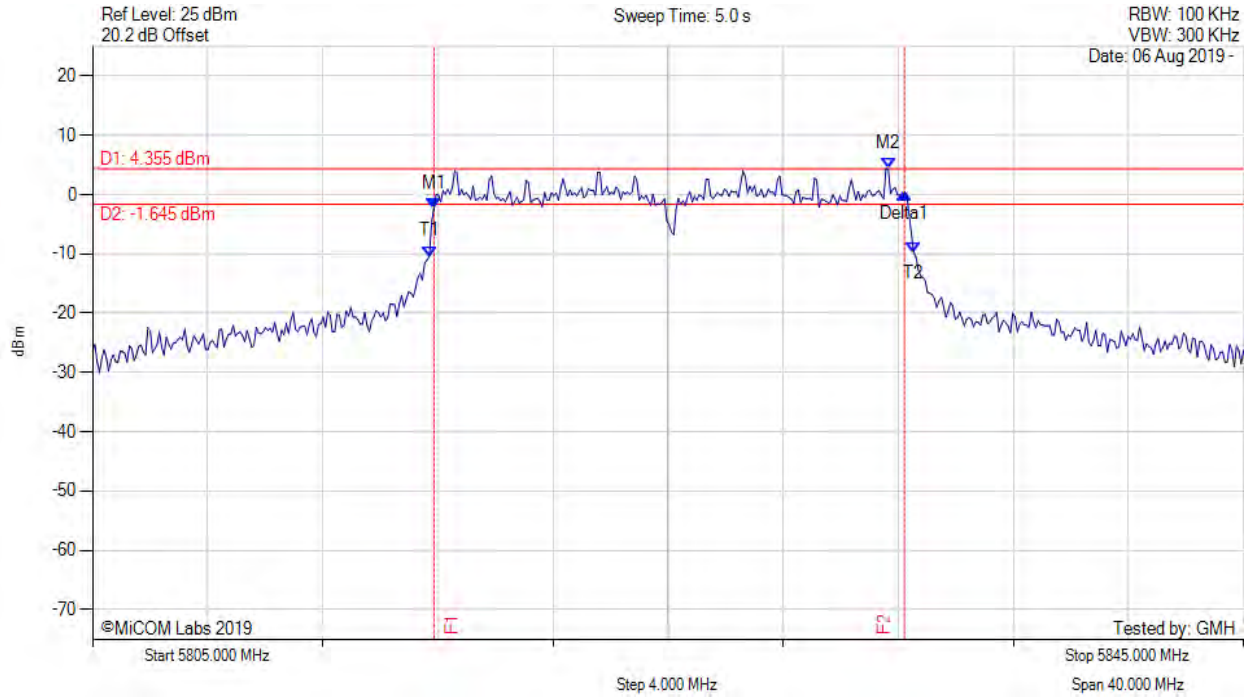



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5816.864 MHz : -4.298 dBm<br>M2 : 5827.605 MHz : 2.539 dBm<br>Delta1 : 16.353 MHz : 2.756 dB<br>T1 : 5816.463 MHz : -15.225 dBm<br>T2 : 5833.617 MHz : -11.658 dBm<br>OBW : 17.154 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 17.154 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5816.864 MHz : -2.344 dBm<br>M2 : 5832.655 MHz : 4.355 dBm<br>Delta1 : 16.353 MHz : 2.632 dB<br>T1 : 5816.703 MHz : -10.430 dBm<br>T2 : 5833.537 MHz : -9.745 dBm<br>OBW : 16.834 MHz | Measured 6 dB Bandwidth: 16.353 MHz<br>Measured 99% Bandwidth: 16.834 MHz |

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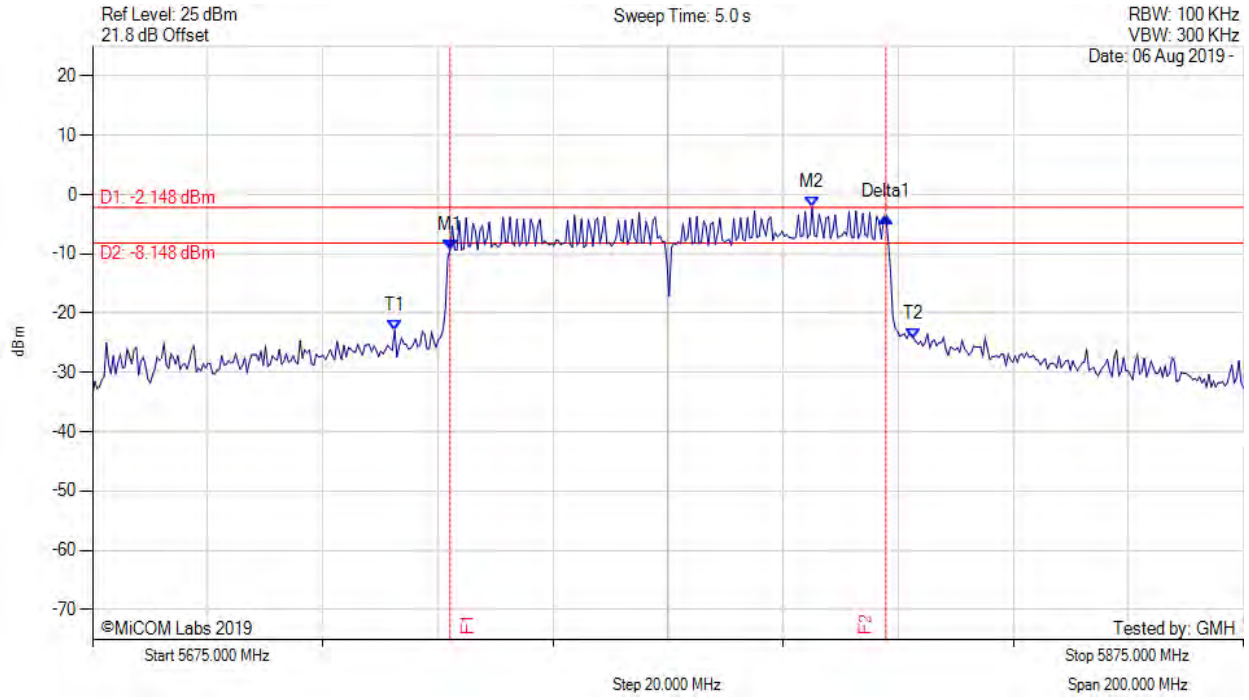
## 6 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

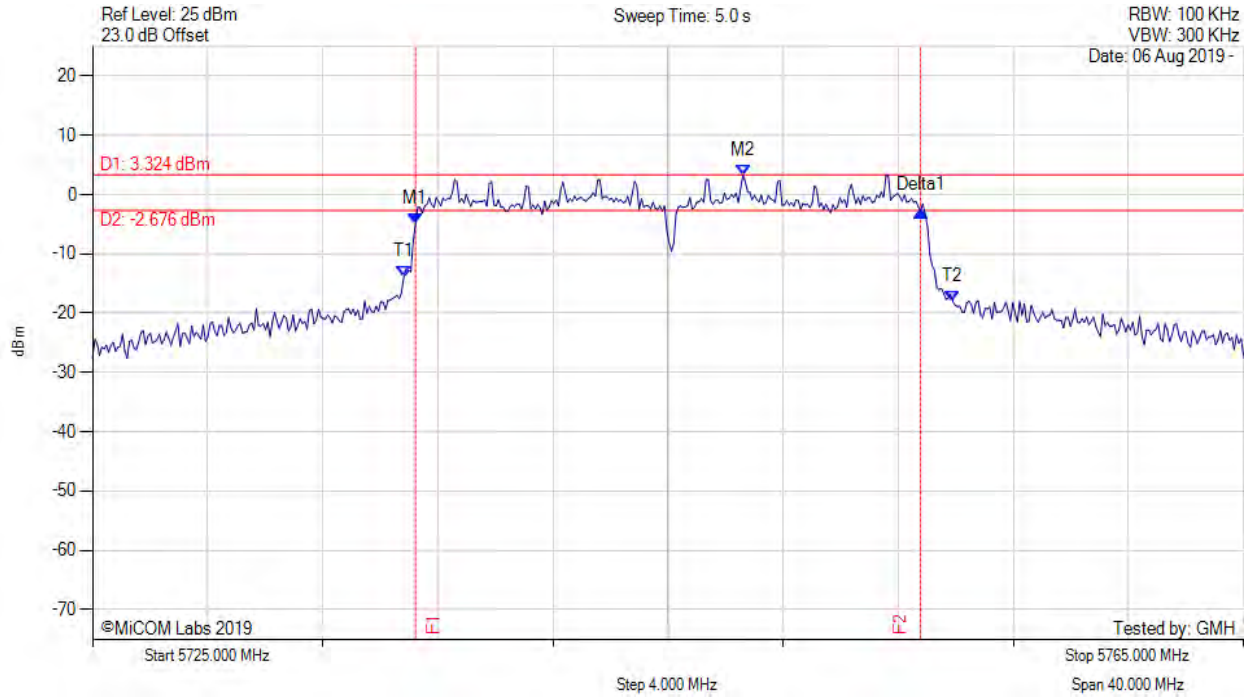



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5737.124 MHz : -9.340 dBm<br>M2 : 5800.050 MHz : -2.148 dBm<br>Delta1 : 75.752 MHz : 5.664 dB<br>T1 : 5727.505 MHz : -22.838 dBm<br>T2 : 5817.685 MHz : -24.253 dBm<br>OBW : 90.180 MHz | Measured 6 dB Bandwidth: 75.752 MHz<br>Measured 99% Bandwidth: 90.180 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5736.222 MHz : -5.000 dBm<br>M2 : 5747.605 MHz : 3.324 dBm<br>Delta1 : 17.555 MHz : 2.290 dB<br>T1 : 5735.822 MHz : -13.737 dBm<br>T2 : 5754.900 MHz : -18.040 dBm<br>OBW : 19.078 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Measured 99% Bandwidth: 19.078 MHz |

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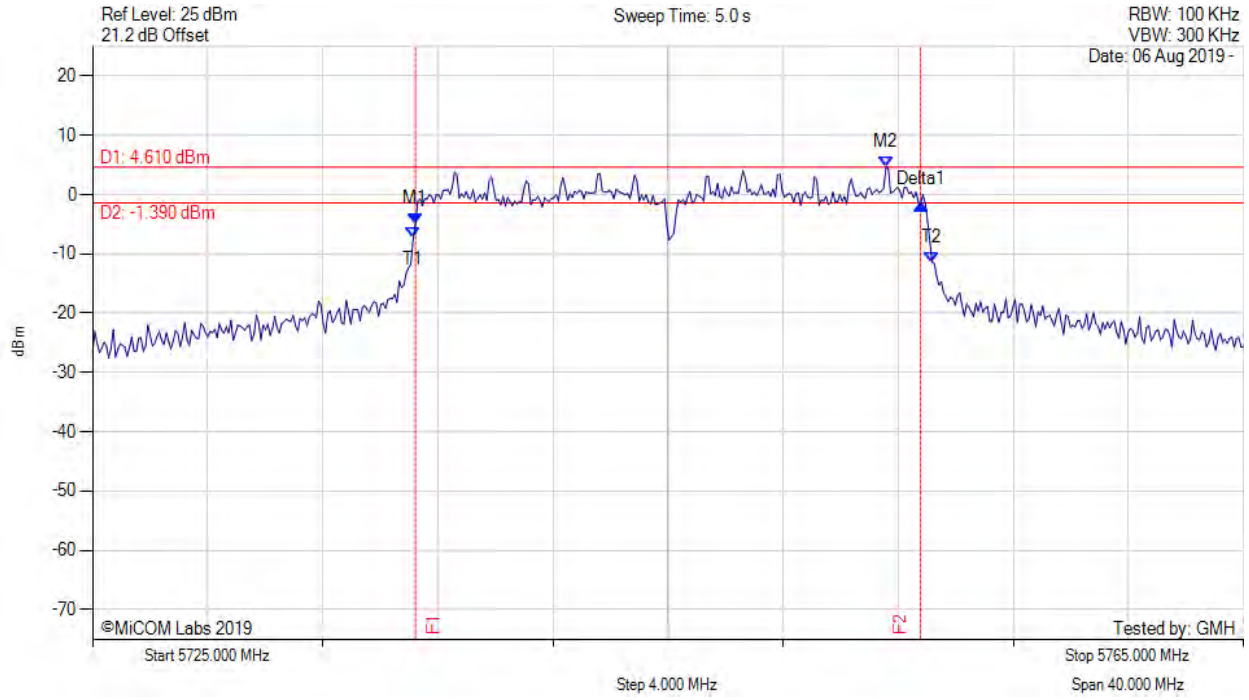
## 6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5736.222 MHz : -4.882 dBm<br>M2 : 5752.575 MHz : 4.610 dBm<br>Delta1 : 17.555 MHz : 3.232 dB<br>T1 : 5736.142 MHz : -7.359 dBm<br>T2 : 5754.178 MHz : -11.388 dBm<br>OBW : 18.036 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Measured 99% Bandwidth: 18.036 MHz |

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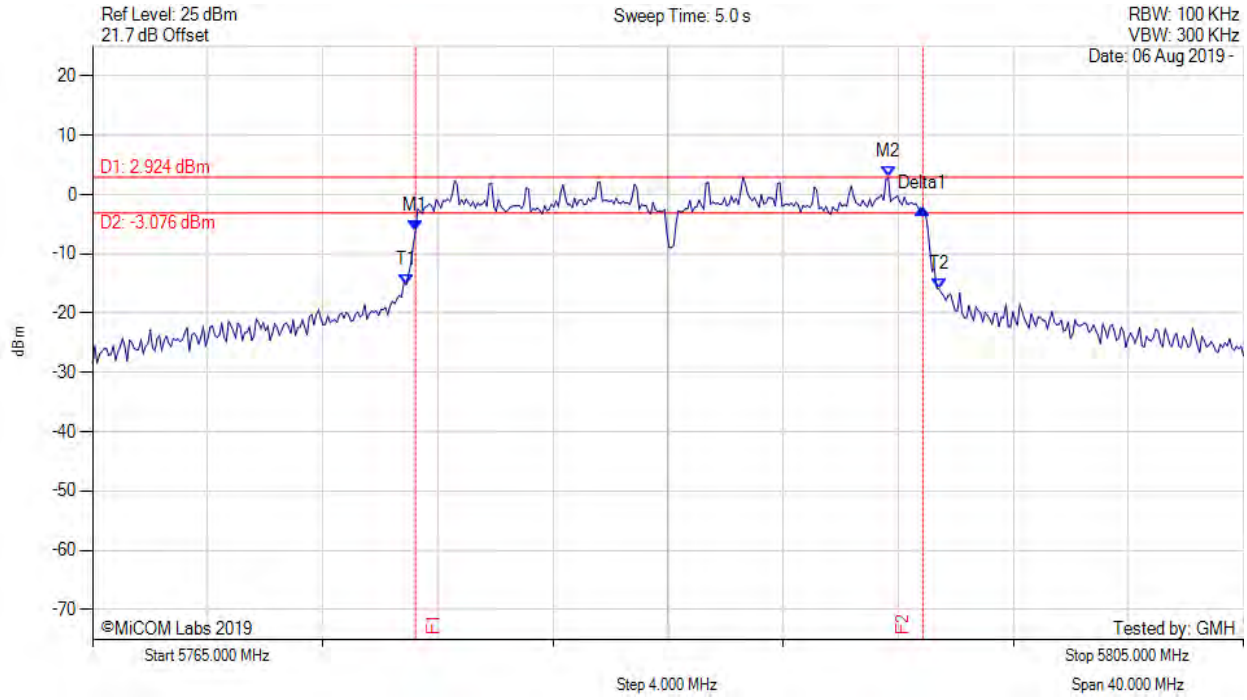
6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5776.222 MHz : -6.196 dBm<br>M2 : 5792.655 MHz : 2.924 dBm<br>Delta1 : 17.635 MHz : 3.846 dB<br>T1 : 5775.902 MHz : -15.199 dBm<br>T2 : 5794.419 MHz : -15.929 dBm<br>OBW : 18.517 MHz | Measured 6 dB Bandwidth: 17.635 MHz<br>Measured 99% Bandwidth: 18.517 MHz |

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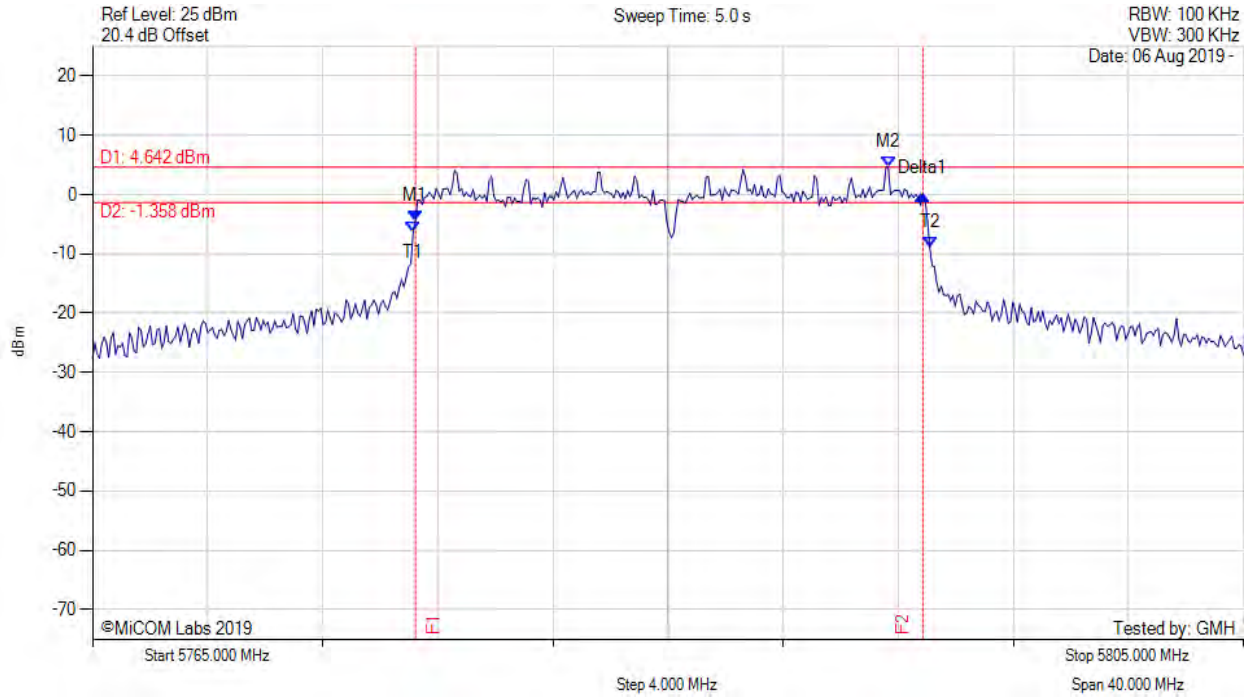
6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 55 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 : 5776.222 MHz : -4.414 dBm<br>M2 : 5792.655 MHz : 4.642 dBm<br>Delta1 : 17.635 MHz : 4.482 dB<br>T1 : 5776.142 MHz : -6.281 dBm<br>T2 : 5794.098 MHz : -8.929 dBm<br>OBW : 17.956 MHz | Measured 6 dB Bandwidth: 17.635 MHz<br>Measured 99% Bandwidth: 17.956 MHz |

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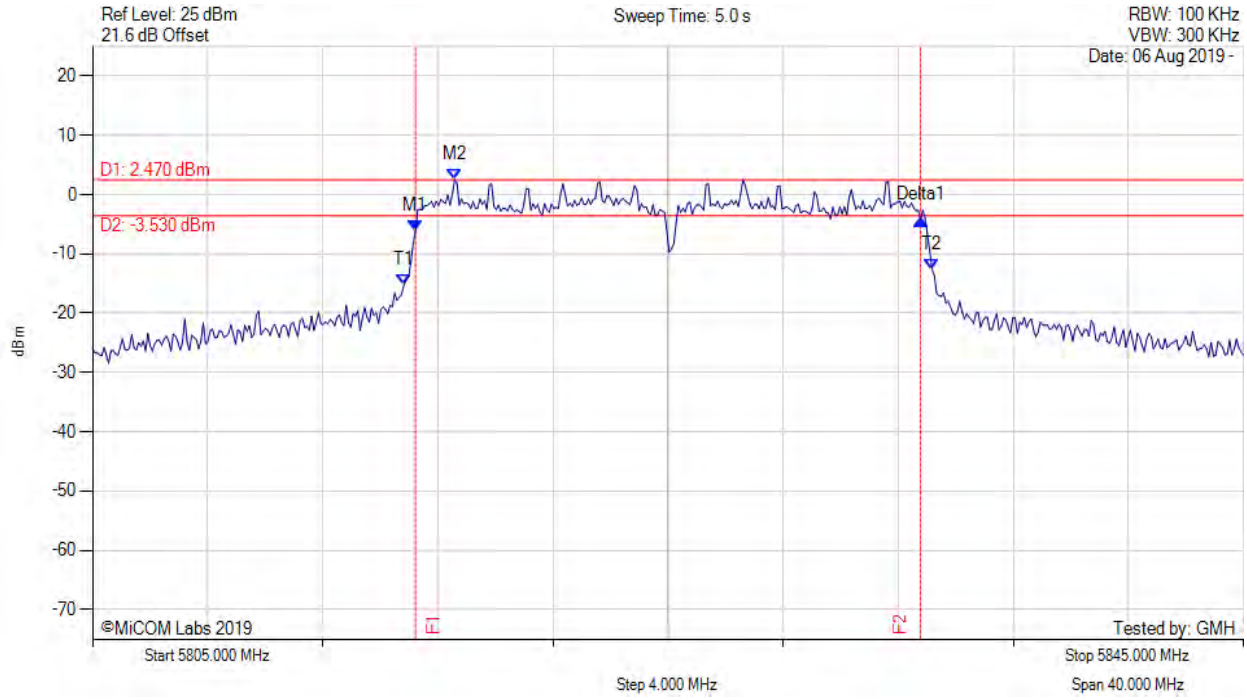
6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 55 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 : 5816.222 MHz : -6.167 dBm<br>M2 : 5817.585 MHz : 2.470 dBm<br>Delta1 : 17.555 MHz : 1.963 dB<br>T1 : 5815.822 MHz : -15.191 dBm<br>T2 : 5834.178 MHz : -12.602 dBm<br>OBW : 18.357 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Measured 99% Bandwidth: 18.357 MHz |

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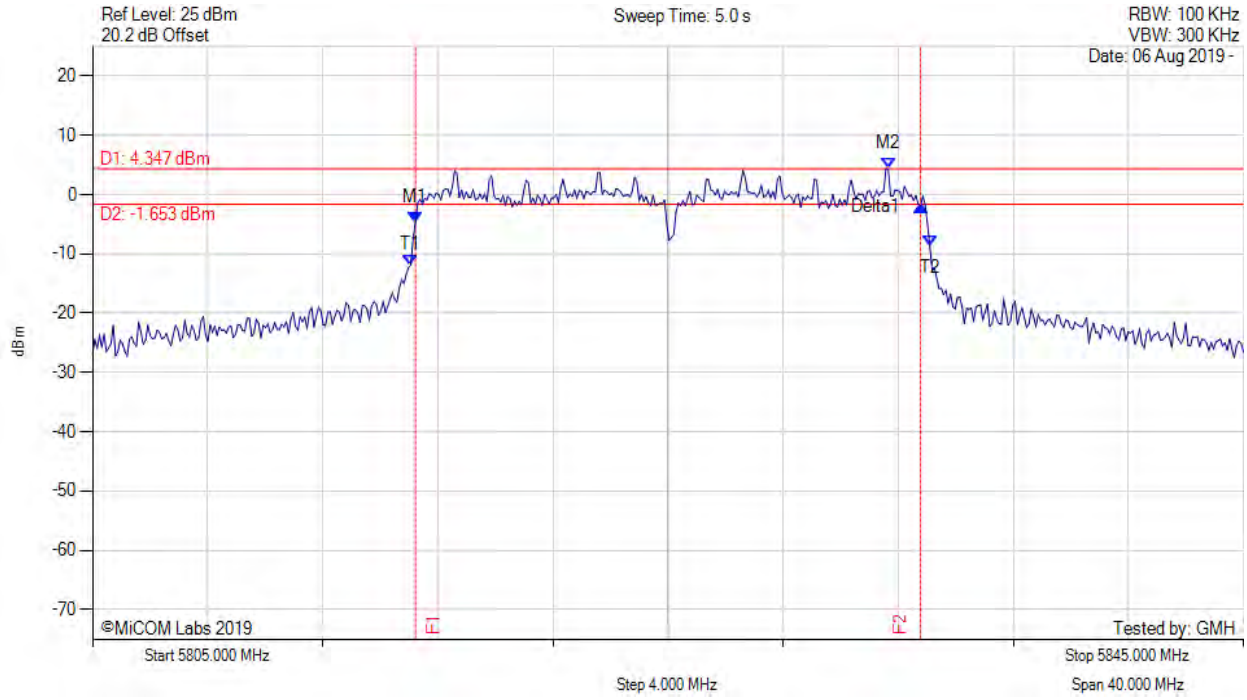
6 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

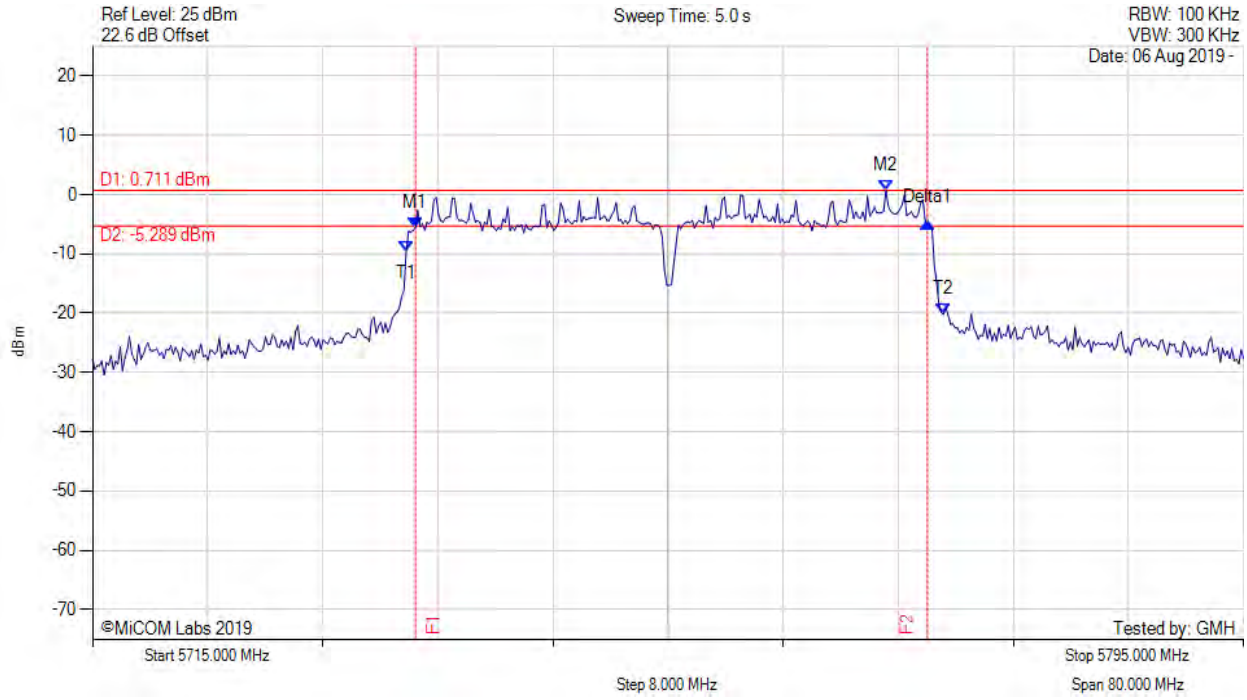



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5816.222 MHz : -4.664 dBm<br>M2 : 5832.655 MHz : 4.347 dBm<br>Delta1 : 17.555 MHz : 2.733 dB<br>T1 : 5816.062 MHz : -11.862 dBm<br>T2 : 5834.098 MHz : -8.683 dBm<br>OBW : 18.036 MHz | Measured 6 dB Bandwidth: 17.555 MHz<br>Measured 99% Bandwidth: 18.036 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

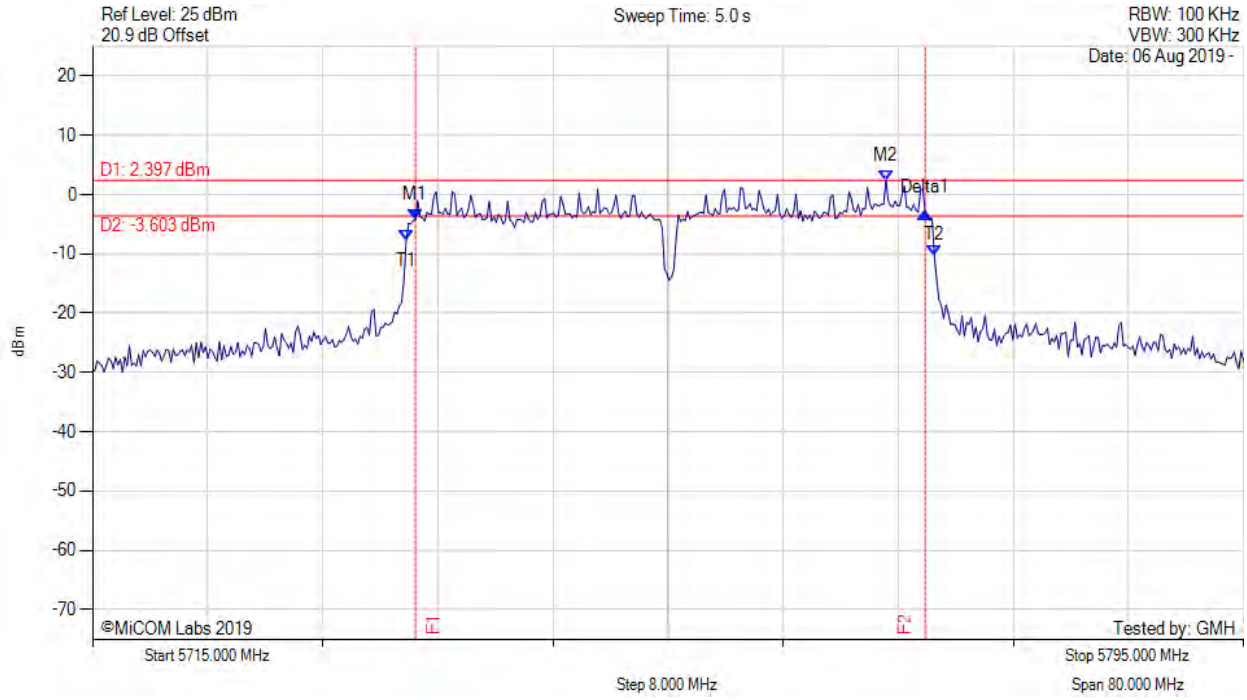



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5737.445 MHz : -5.624 dBm<br>M2 : 5770.150 MHz : 0.711 dBm<br>Delta1 : 35.591 MHz : 0.956 dB<br>T1 : 5736.804 MHz : -9.655 dBm<br>T2 : 5774.158 MHz : -20.184 dBm<br>OBW : 37.355 MHz | Measured 6 dB Bandwidth: 35.591 MHz<br>Measured 99% Bandwidth: 37.355 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

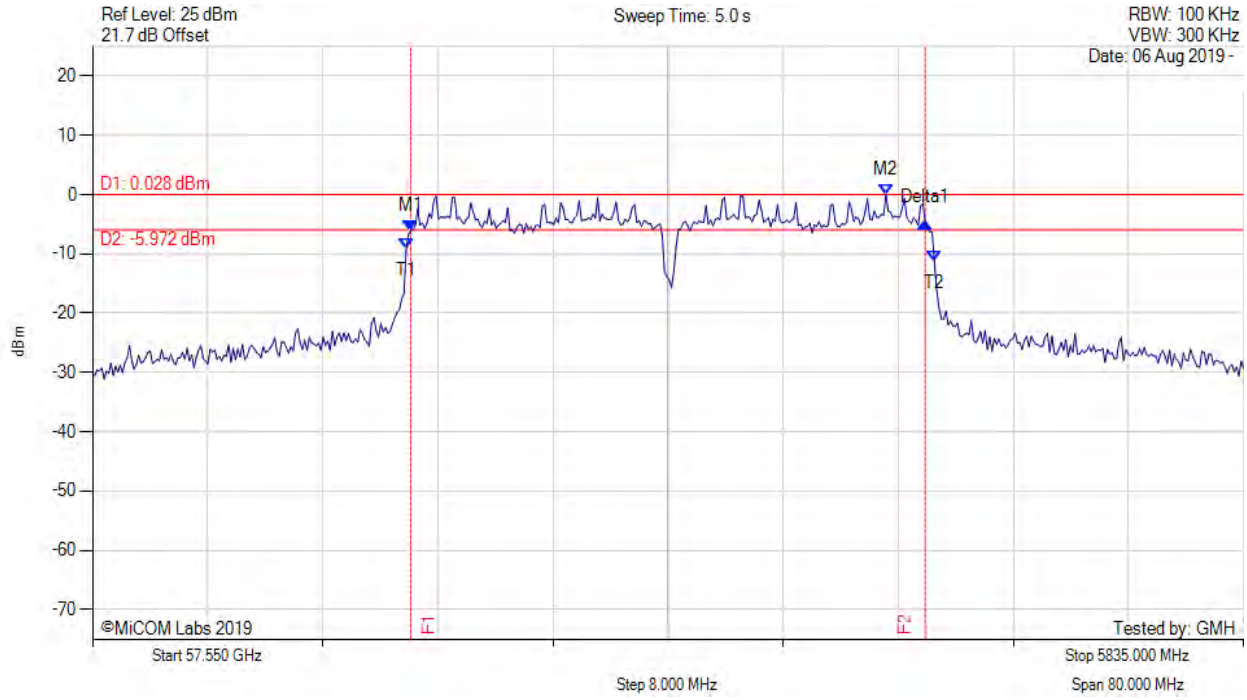



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5737.445 MHz : -4.170 dBm<br>M2 : 5770.150 MHz : 2.397 dBm<br>Delta1 : 35.431 MHz : 1.025 dB<br>T1 : 5736.804 MHz : -7.676 dBm<br>T2 : 5773.517 MHz : -10.241 dBm<br>OBW : 36.713 MHz | Measured 6 dB Bandwidth: 35.431 MHz<br>Measured 99% Bandwidth: 36.713 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

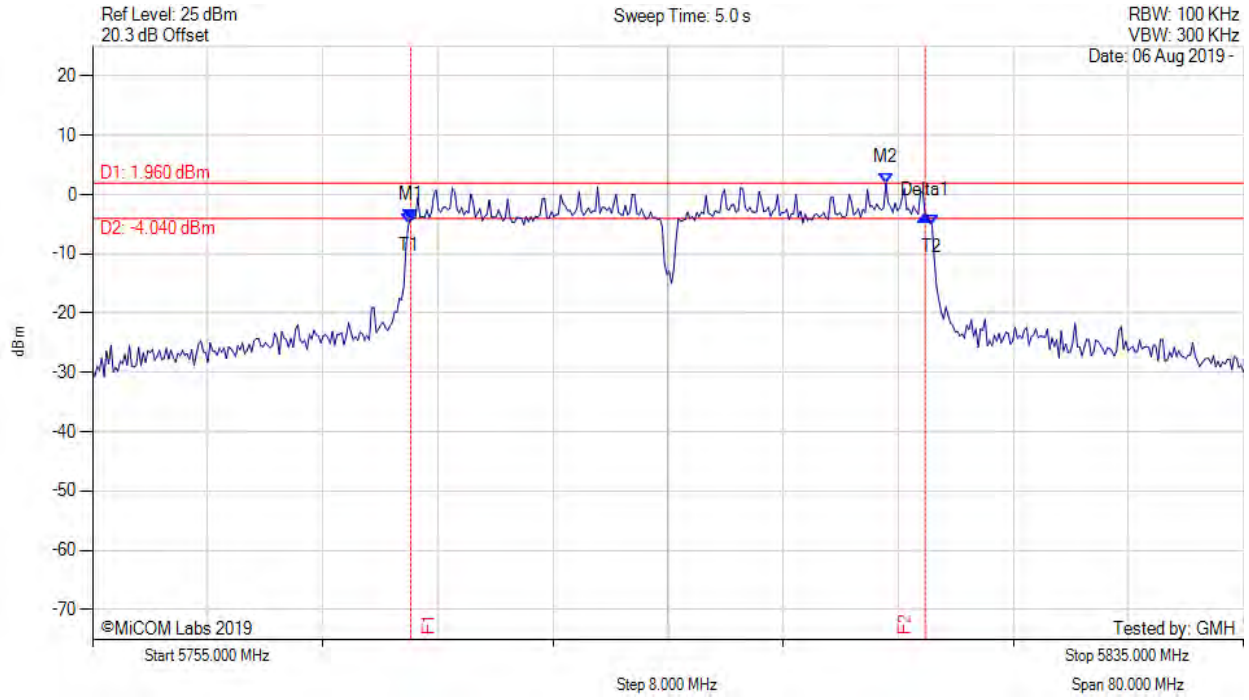



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | M1 : 5777.124 MHz : -6.084 dBm<br>M2 : 5810.150 MHz : 0.028 dBm<br>Delta1 : 35.752 MHz : 1.438 dB<br>T1 : 5776.804 MHz : -9.236 dBm<br>T2 : 5813.517 MHz : -11.241 dBm<br>OBW : 36.713 MHz | Channel Frequency: 5795.00 MHz |

back to matrix

6 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc



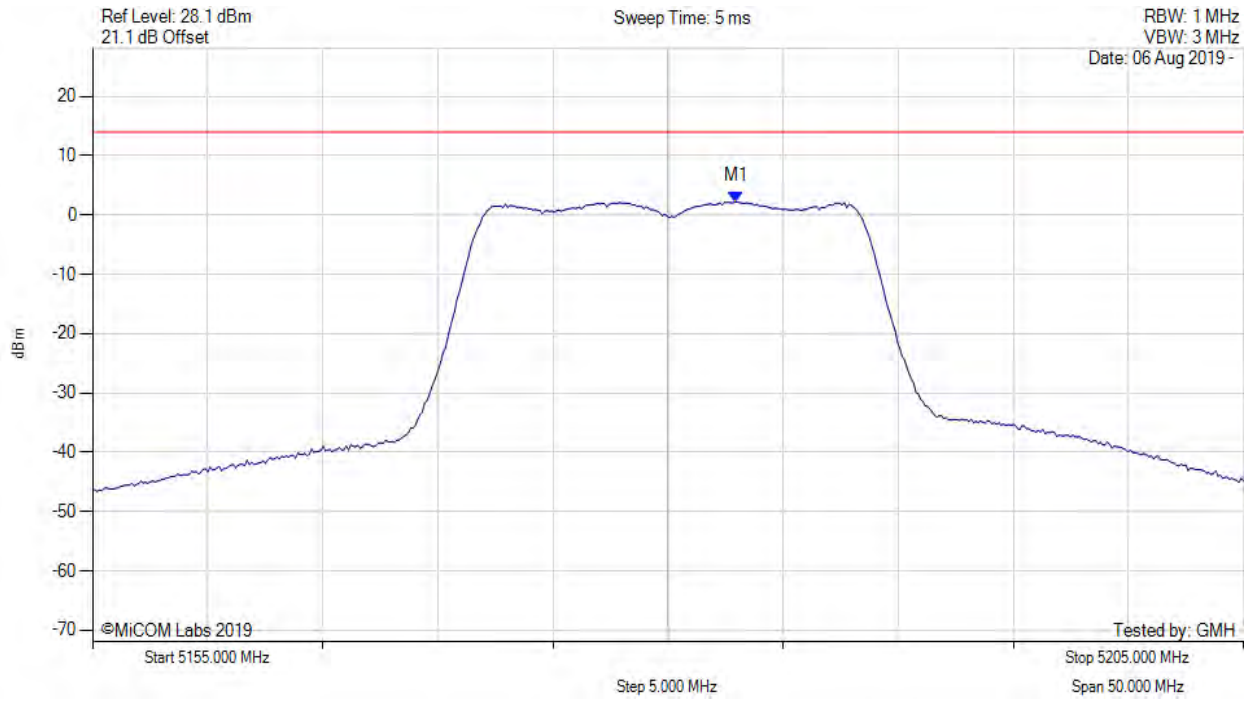

| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = MAX PEAK<br>Sweep Count = 0<br>RF Atten (dB) = 20<br>Trace Mode = MAX HOLD | ERROR!!! MULTIPLE TEST RESULTS MATCHES... | Measured 6 dB Bandwidth: 35.752 MHz<br>Measured 99% Bandwidth: 36.393 MHz<br>ERROR!!! MULTIPLE TEST RESULTS MATCHES... |

back to matrix

## A.3. Power Spectral Density

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

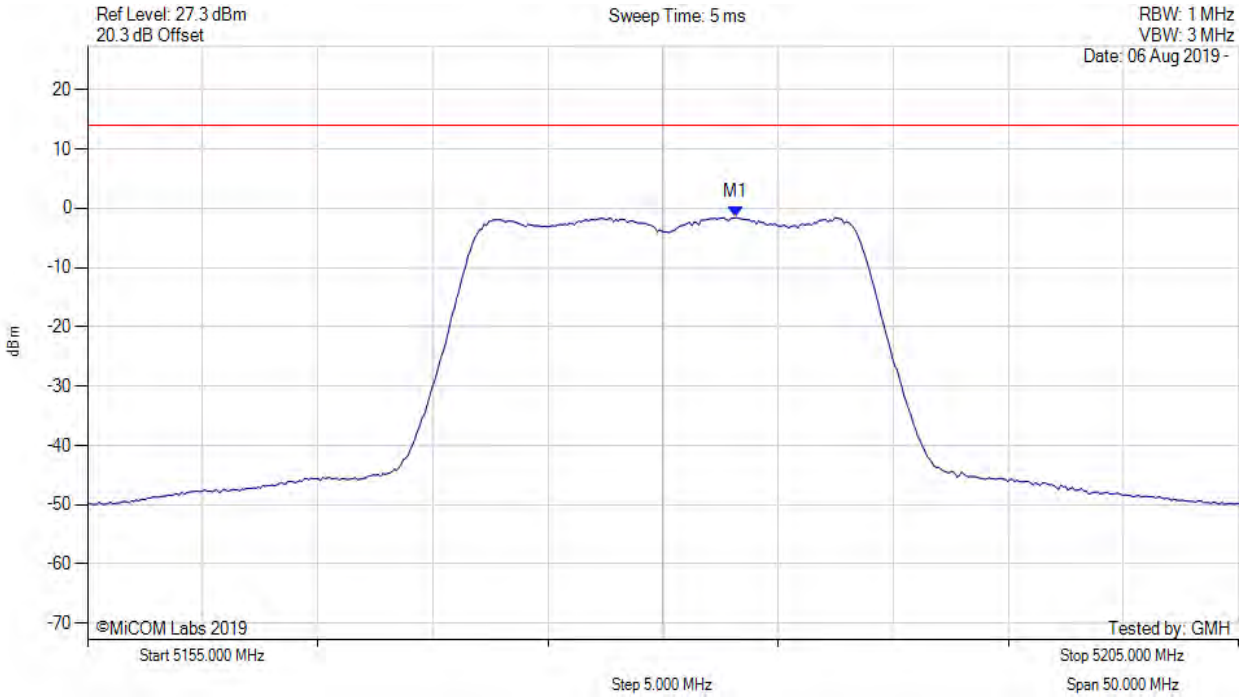



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5182.956 MHz : 2.242 dBm | Limit: ≤ 13.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

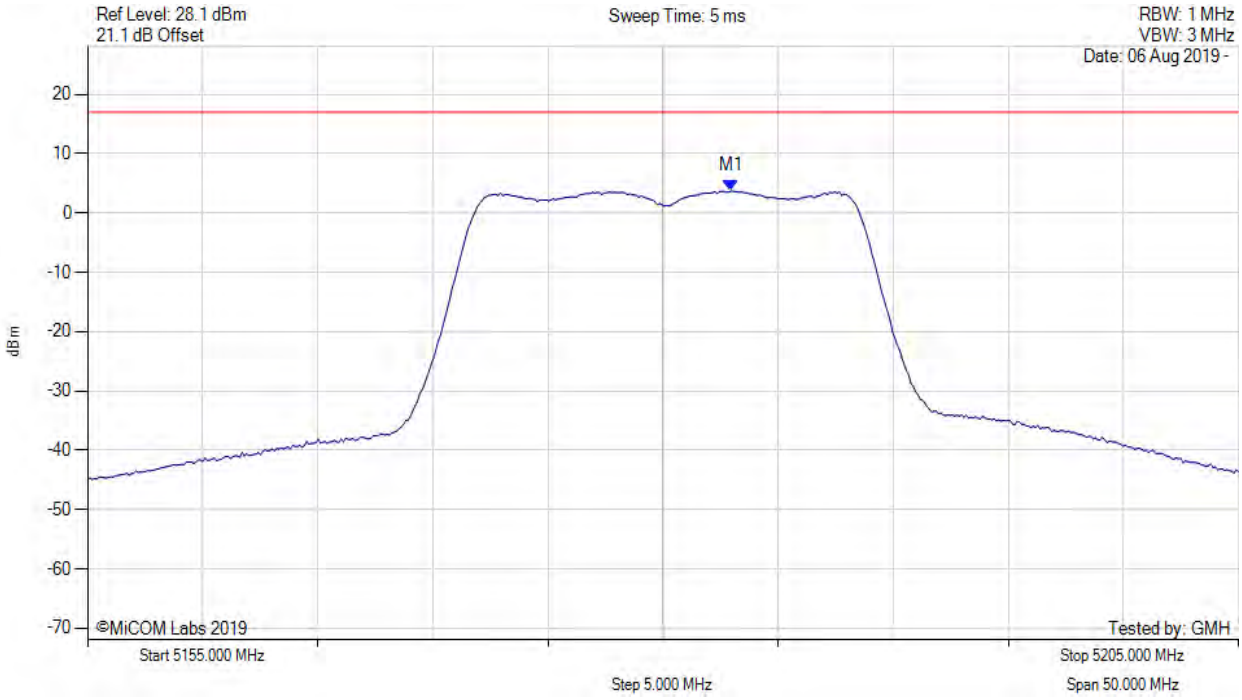



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5183.156 MHz : -1.566 dBm | Limit: ≤ 13.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

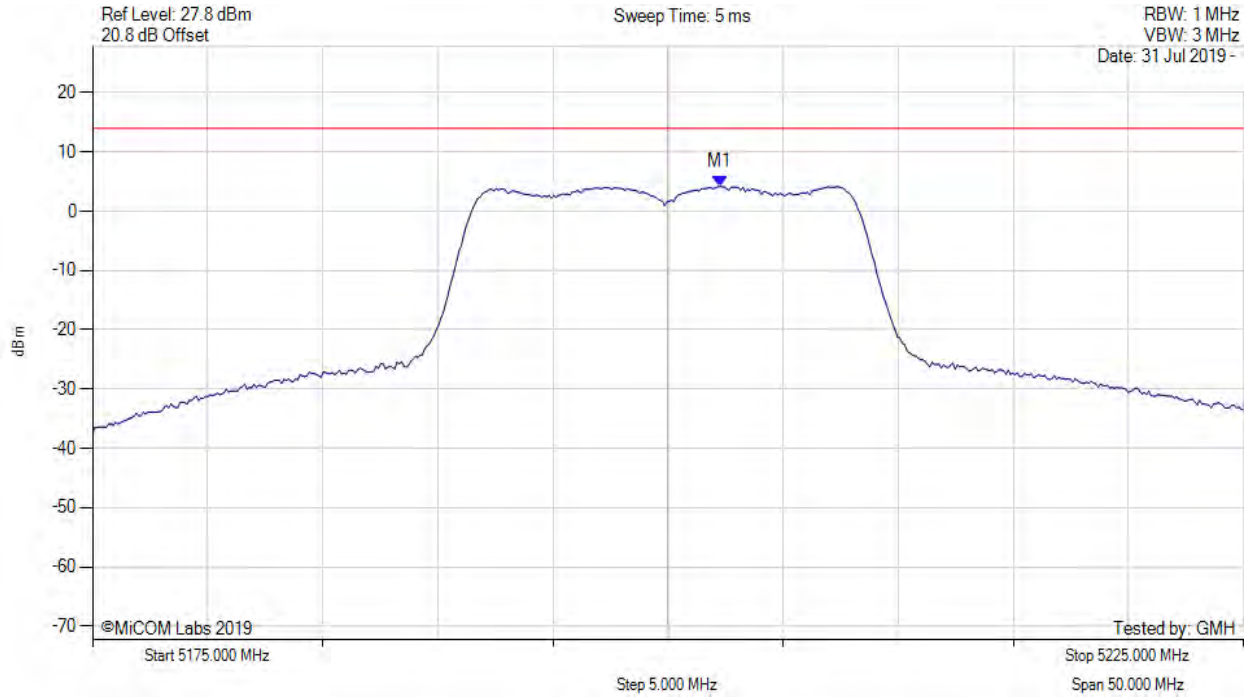



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5183.000 MHz : 3.707 dBm<br>M1 + DCCF : 5183.000 MHz : 3.795 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 17.0 dBm<br>Margin: -13.2 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

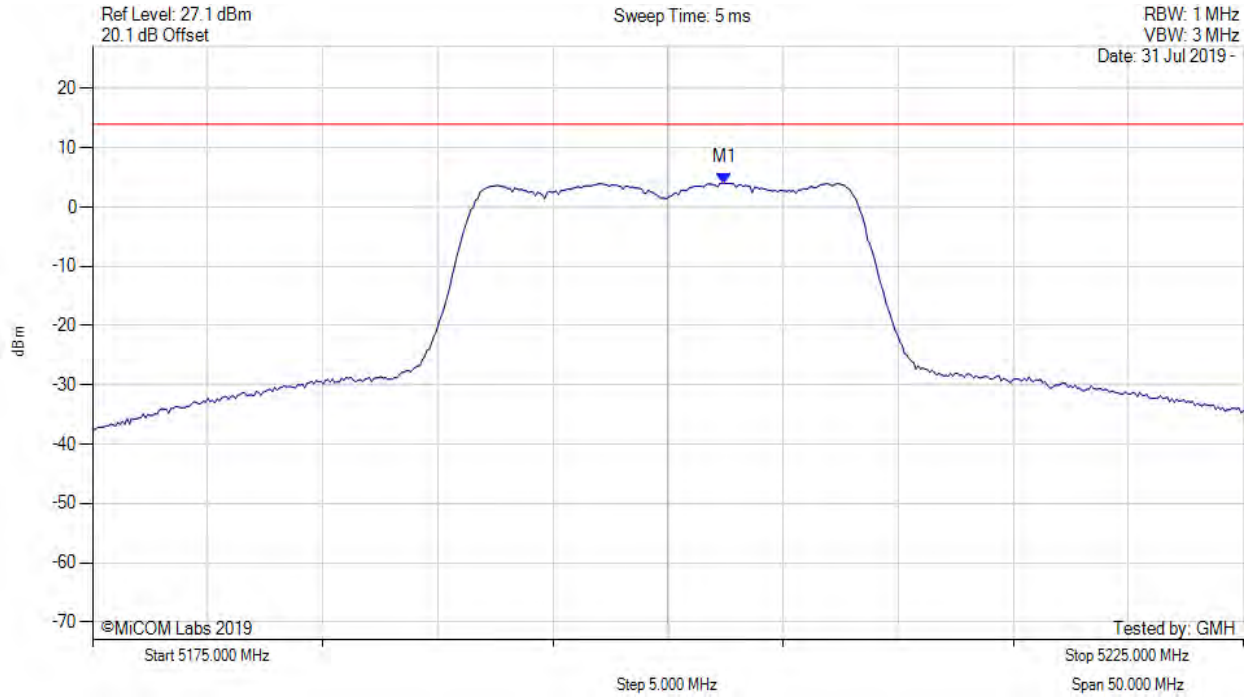



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5202.255 MHz : 4.152 dBm | Limit: ≤ 13.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

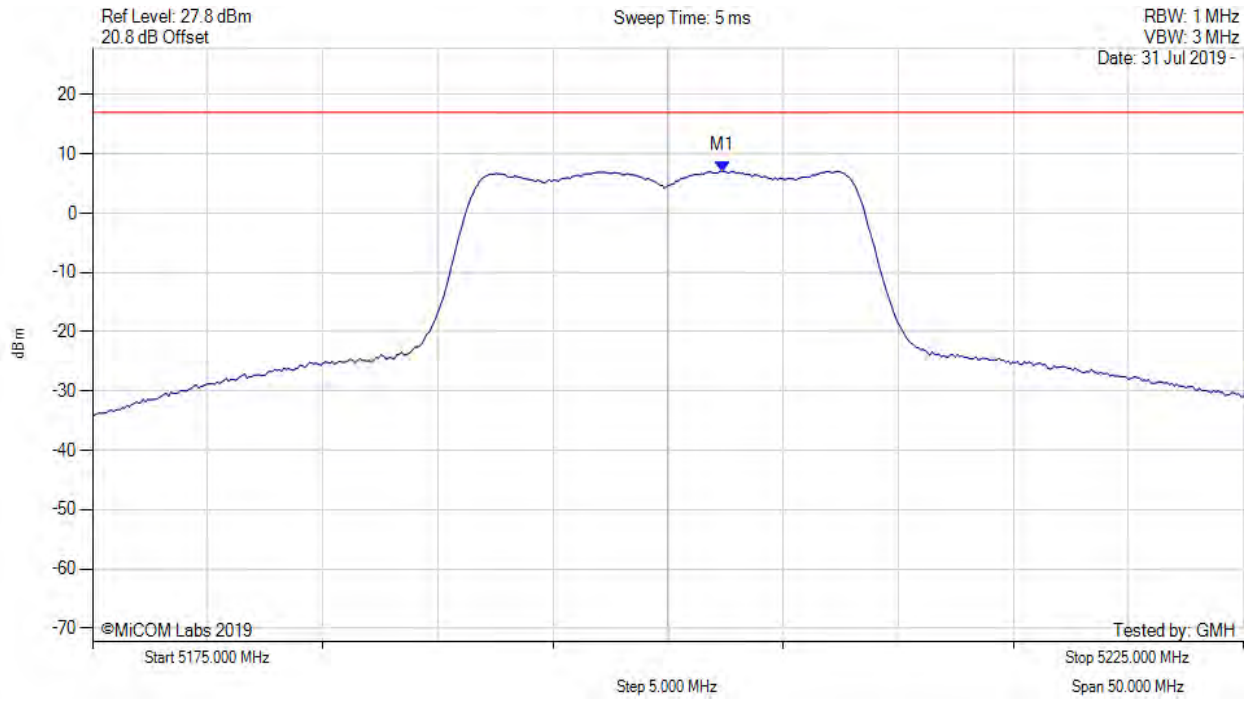



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5202.455 MHz : 4.047 dBm | Channel Frequency: 5200.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

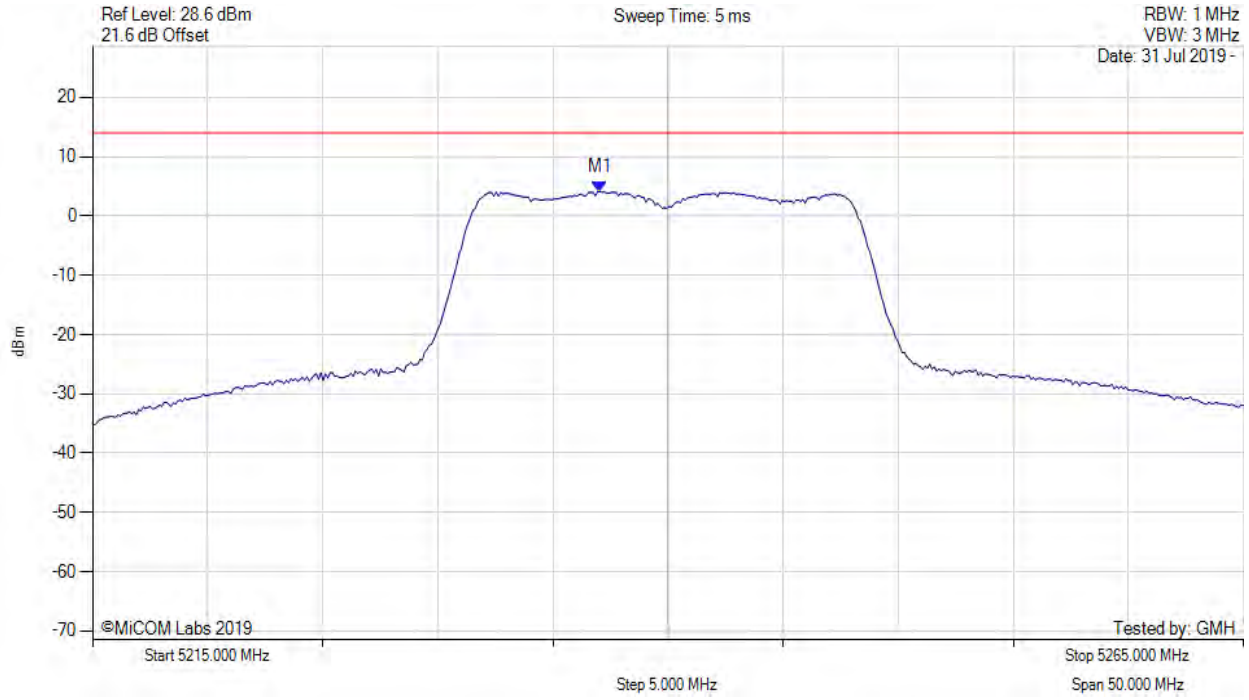



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5202.400 MHz : 7.091 dBm<br>M1 + DCCF : 5202.400 MHz : 7.179 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 17.0 dBm<br>Margin: -9.8 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

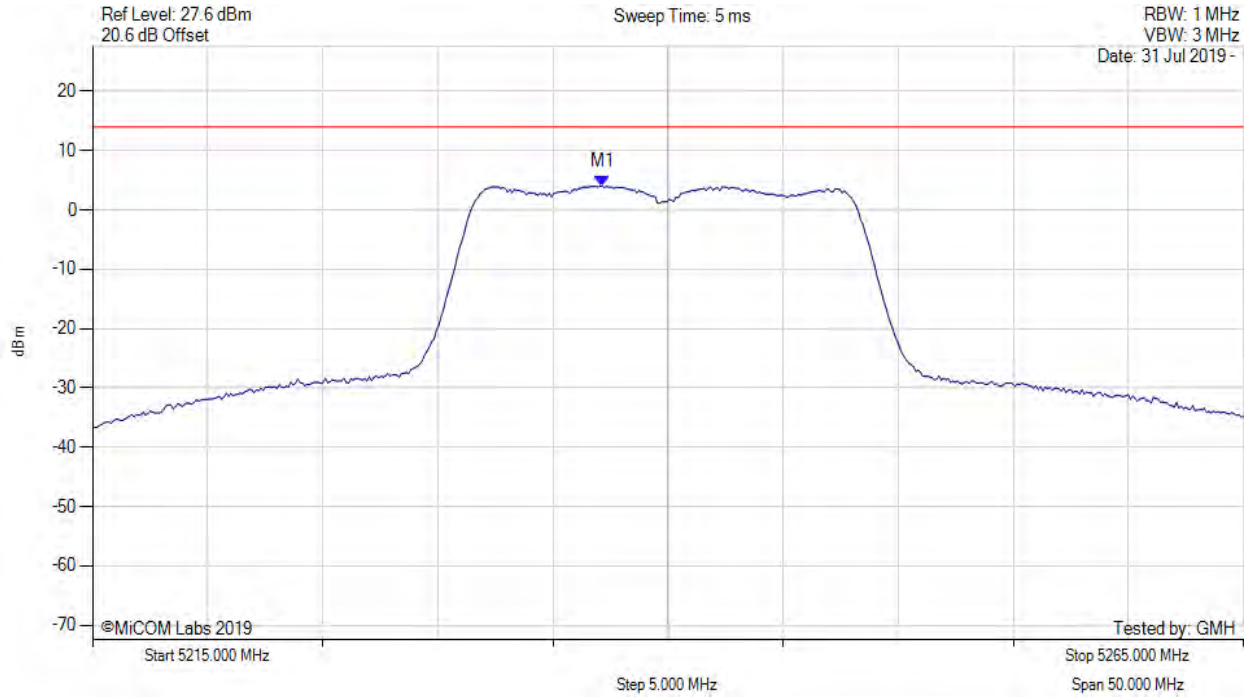



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5237.044 MHz : 4.110 dBm | Limit: ≤ 13.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

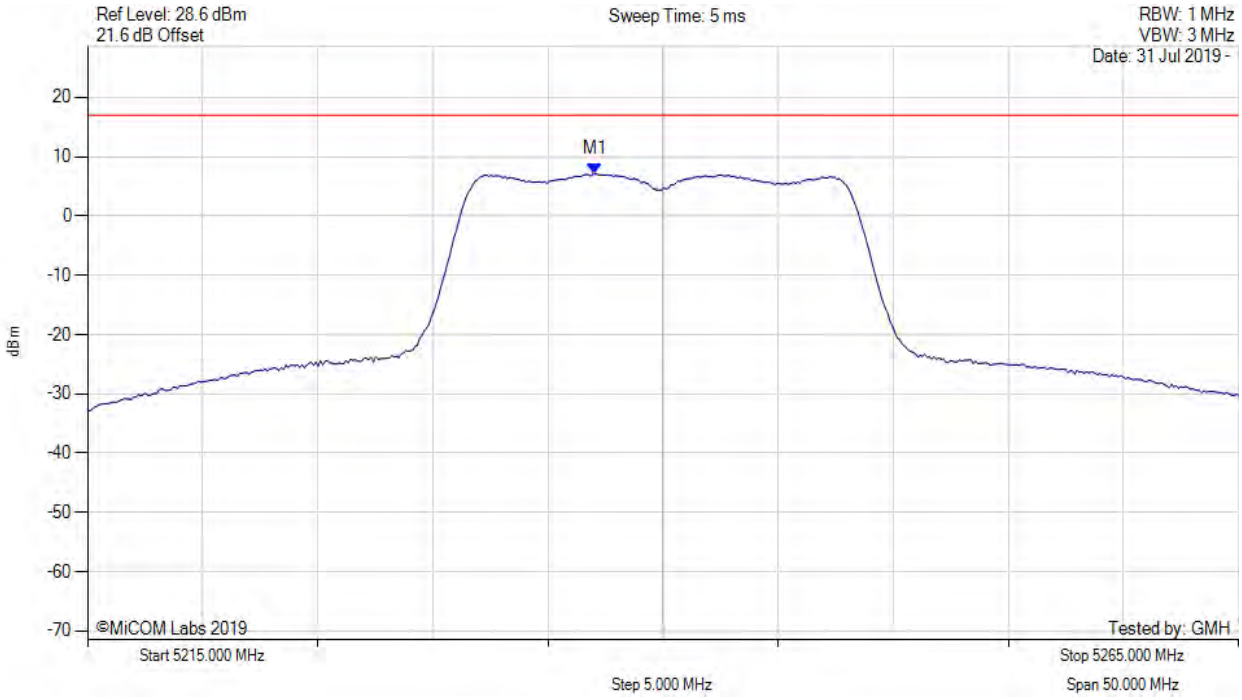



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5237.144 MHz : 4.037 dBm | Limit: ≤ 13.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

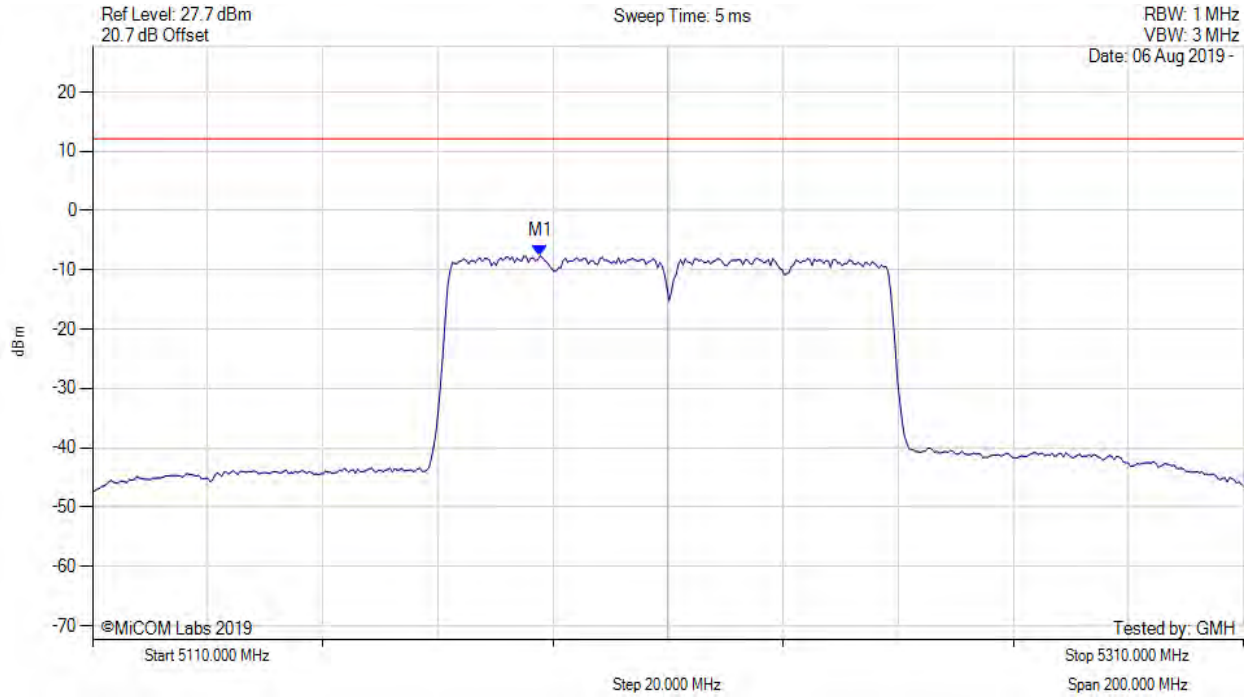



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5237.000 MHz : 7.071 dBm<br>M1 + DCCF : 5237.000 MHz : 7.159 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 17.0 dBm<br>Margin: -9.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

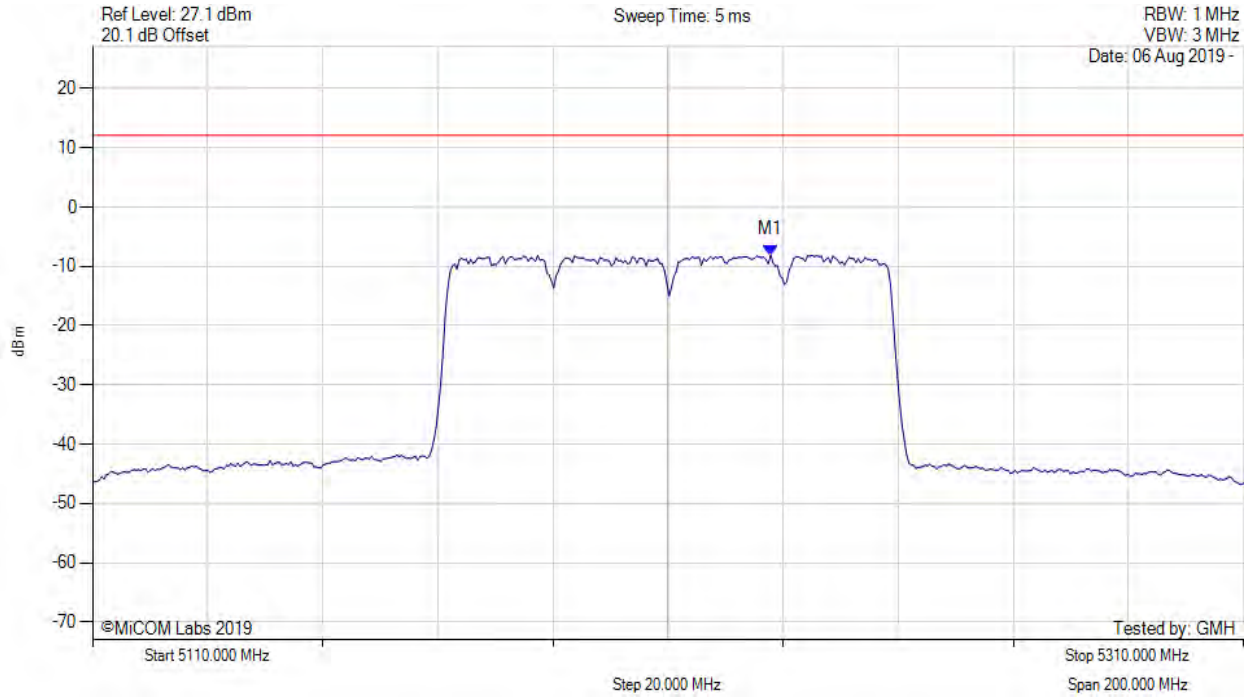



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5187.756 MHz : -7.631 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

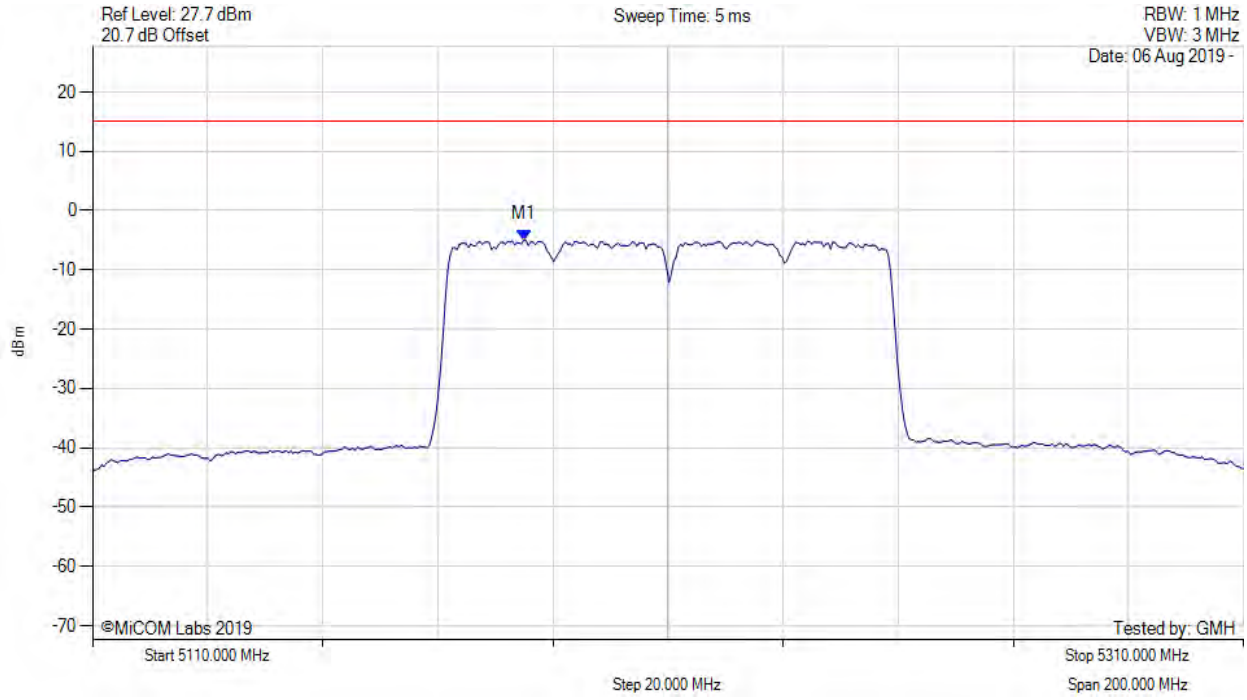



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5227.836 MHz : -8.115 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

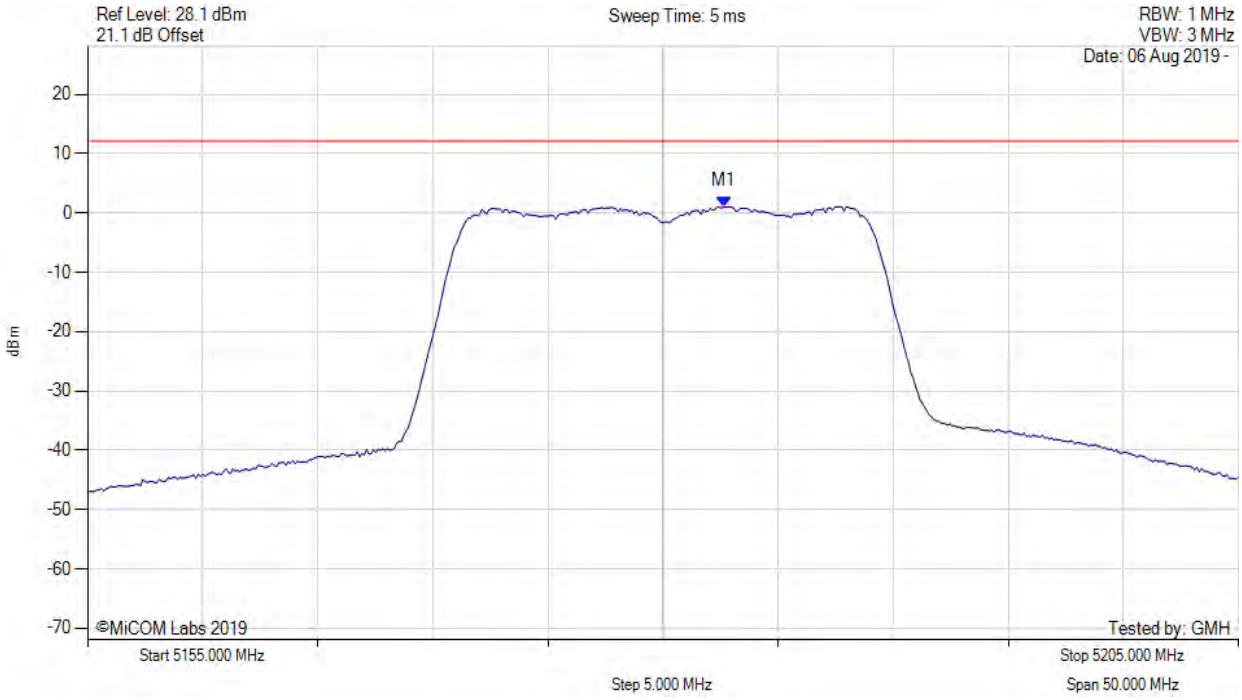



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5184.900 MHz : -4.936 dBm<br>M1 + DCCF : 5184.900 MHz : -4.381 dBm<br>Duty Cycle Correction Factor : +0.56 dB | Limit: ≤ 15.1 dBm<br>Margin: -19.5 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

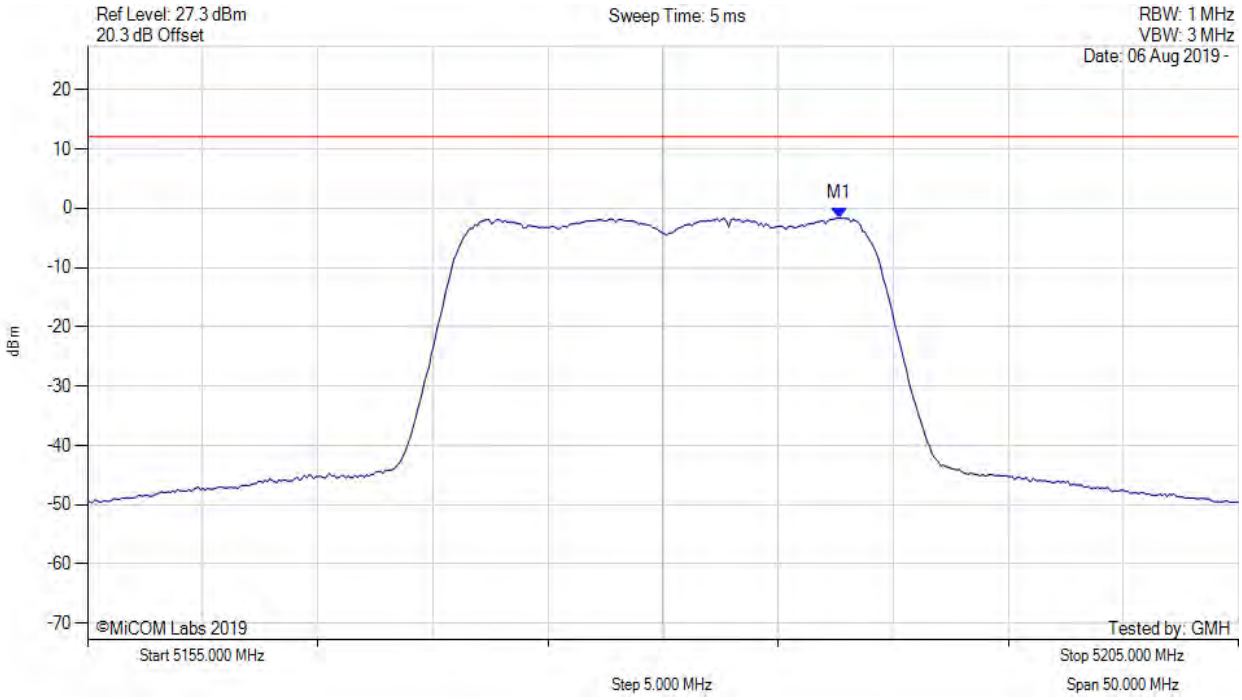



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5182.655 MHz : 1.074 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

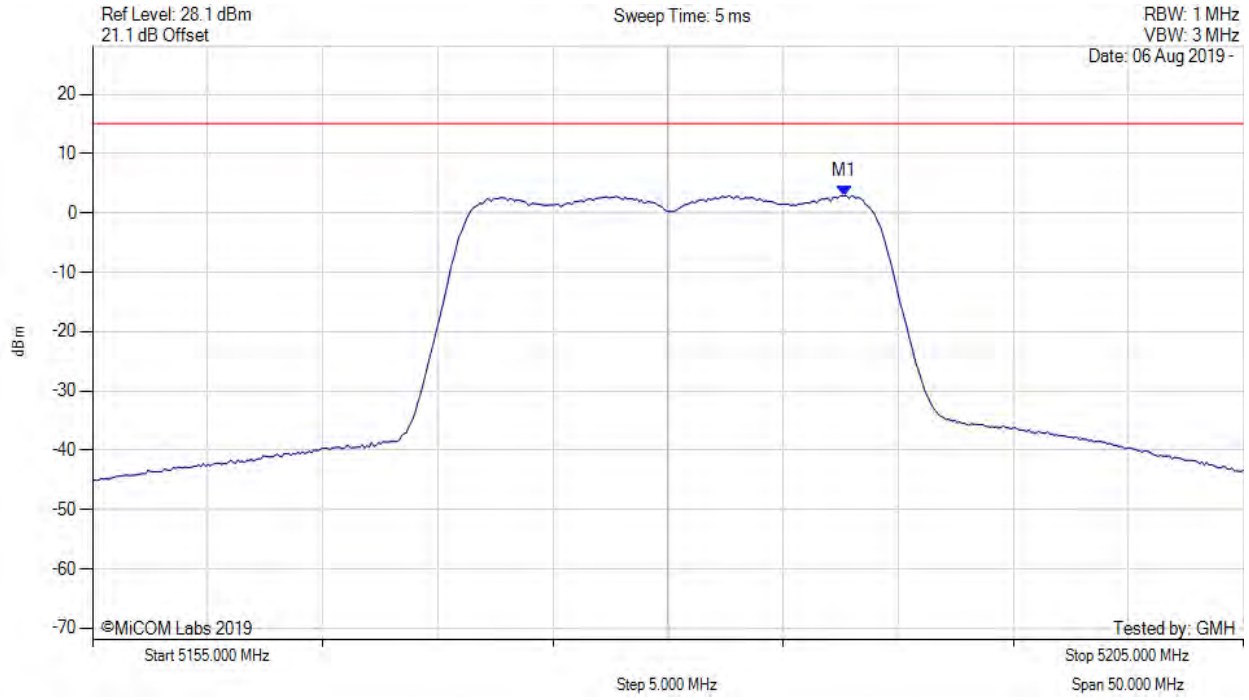



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5187.665 MHz : -1.652 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

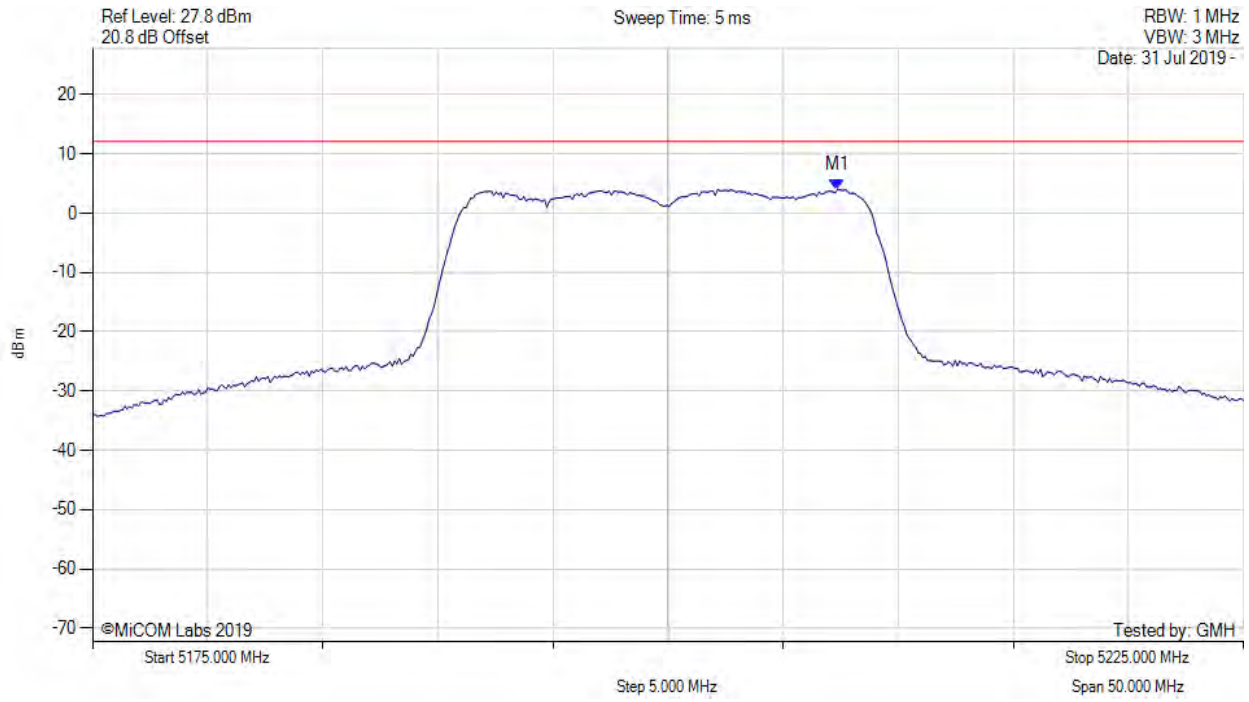



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5187.700 MHz : 2.920 dBm<br>M1 + DCCF : 5187.700 MHz : 3.008 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 15.1 dBm<br>Margin: -12.1 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

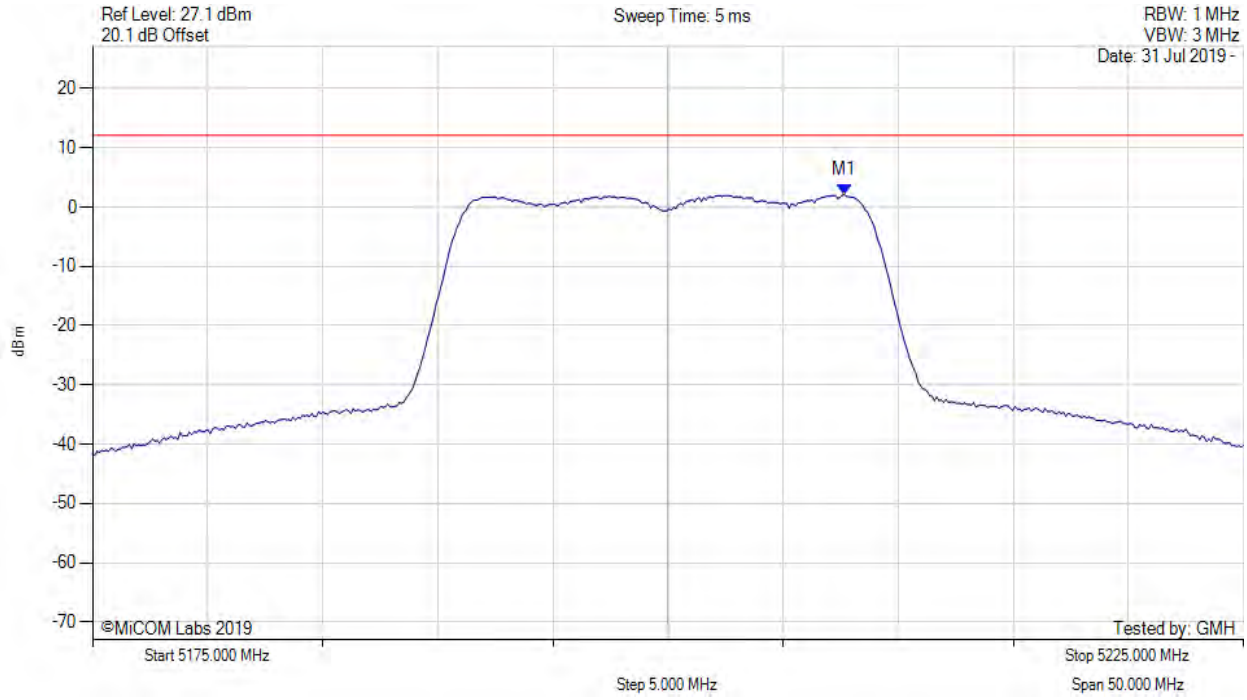



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5207.365 MHz : 4.000 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

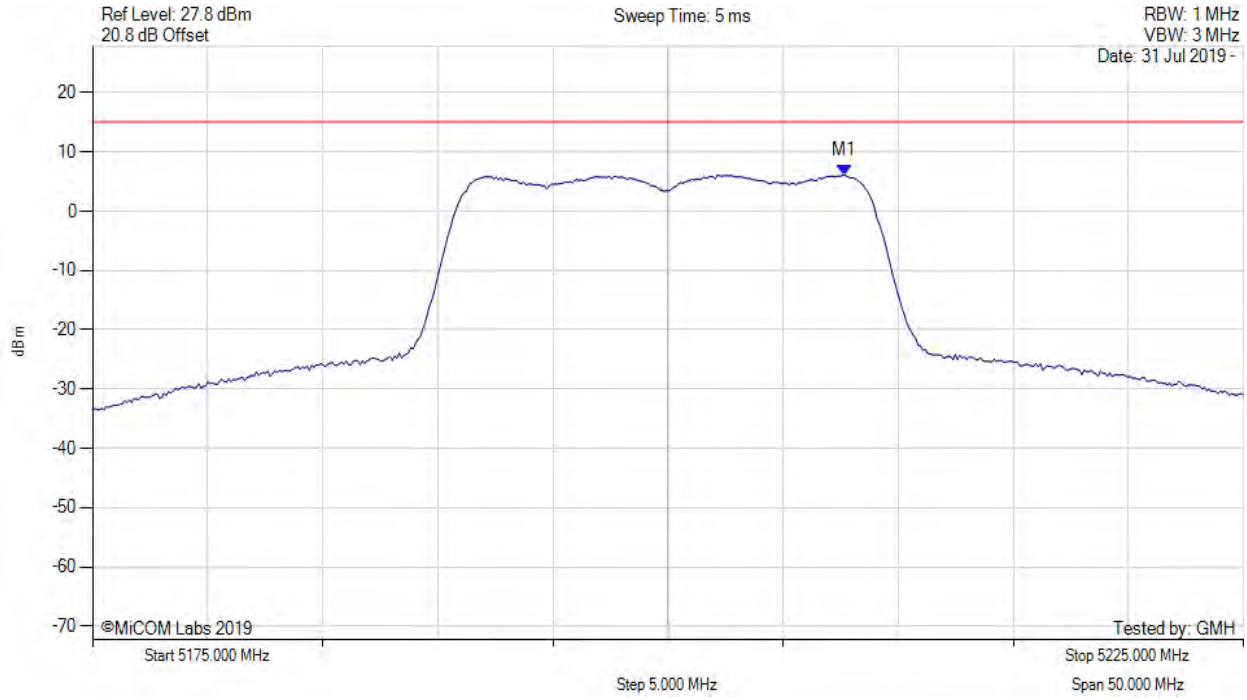



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5207.665 MHz : 2.080 dBm | Channel Frequency: 5200.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

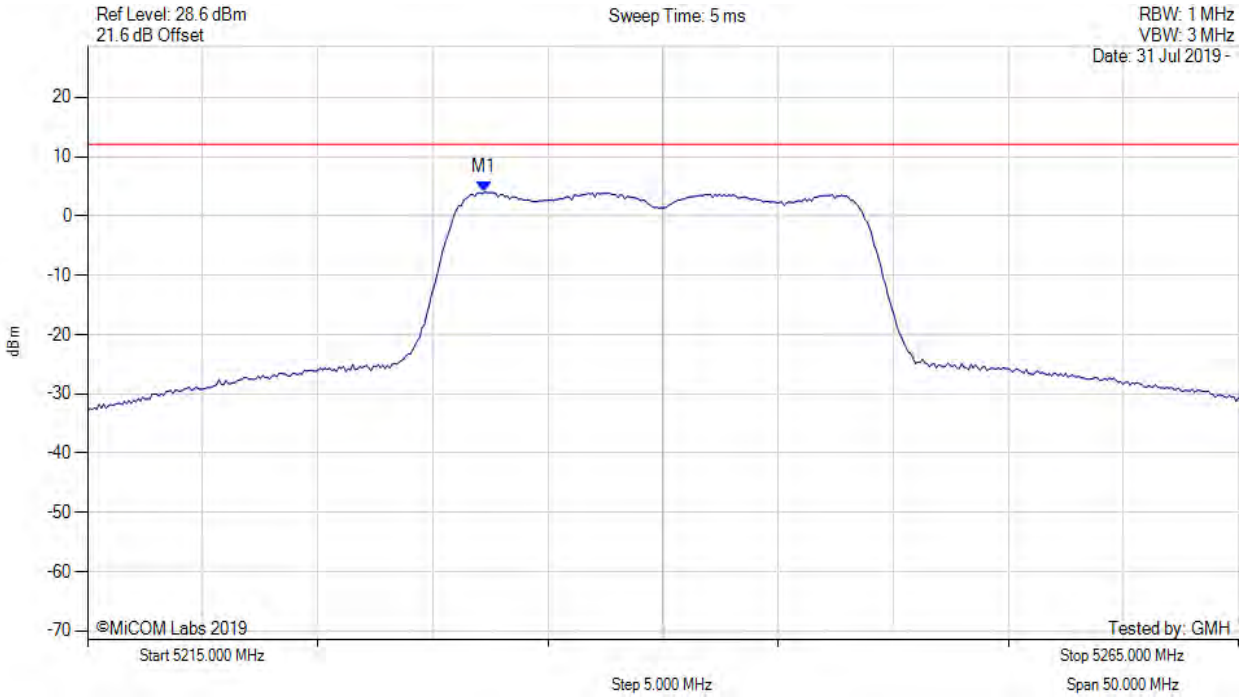



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5207.700 MHz : 6.108 dBm<br>M1 + DCCF : 5207.700 MHz : 6.196 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 15.1 dBm<br>Margin: -8.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

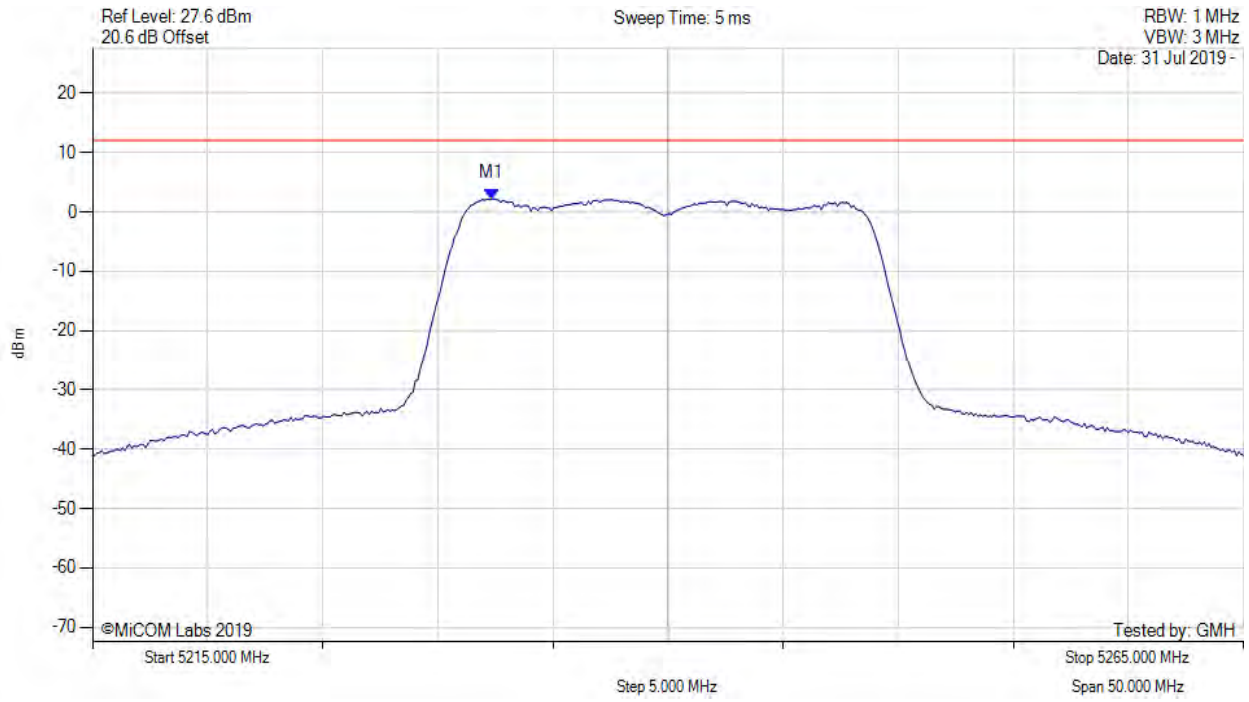



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5232.234 MHz : 4.005 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

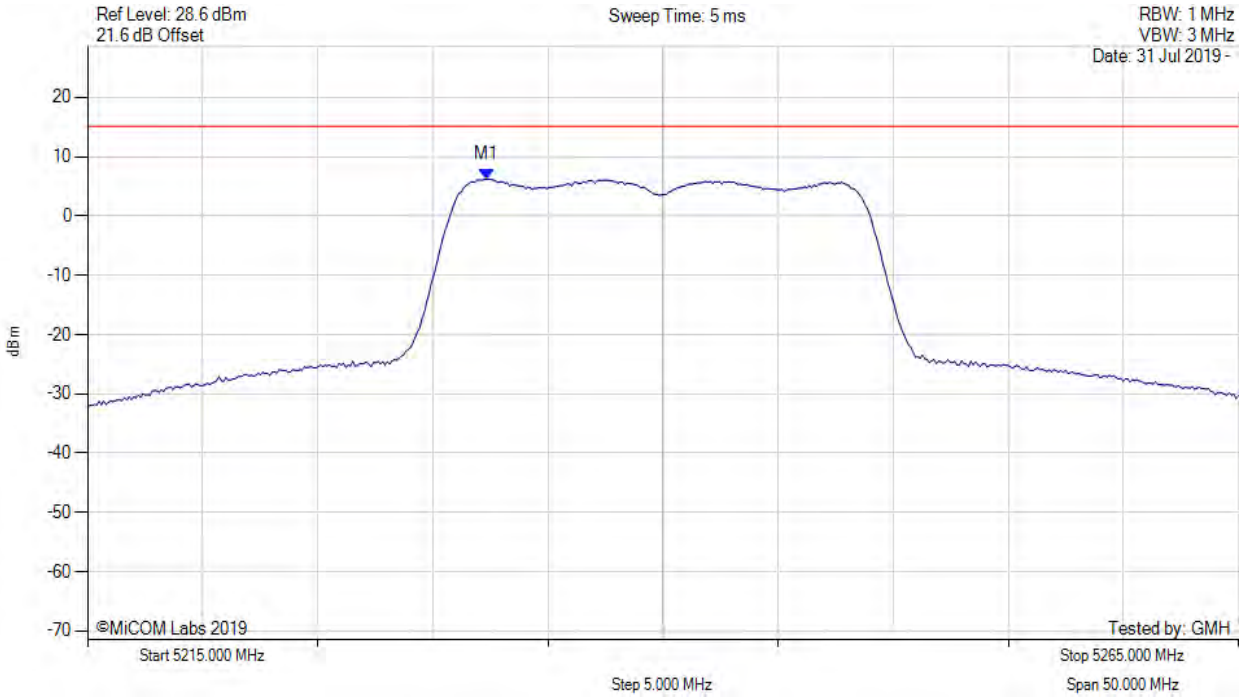



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5232.335 MHz : 2.212 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

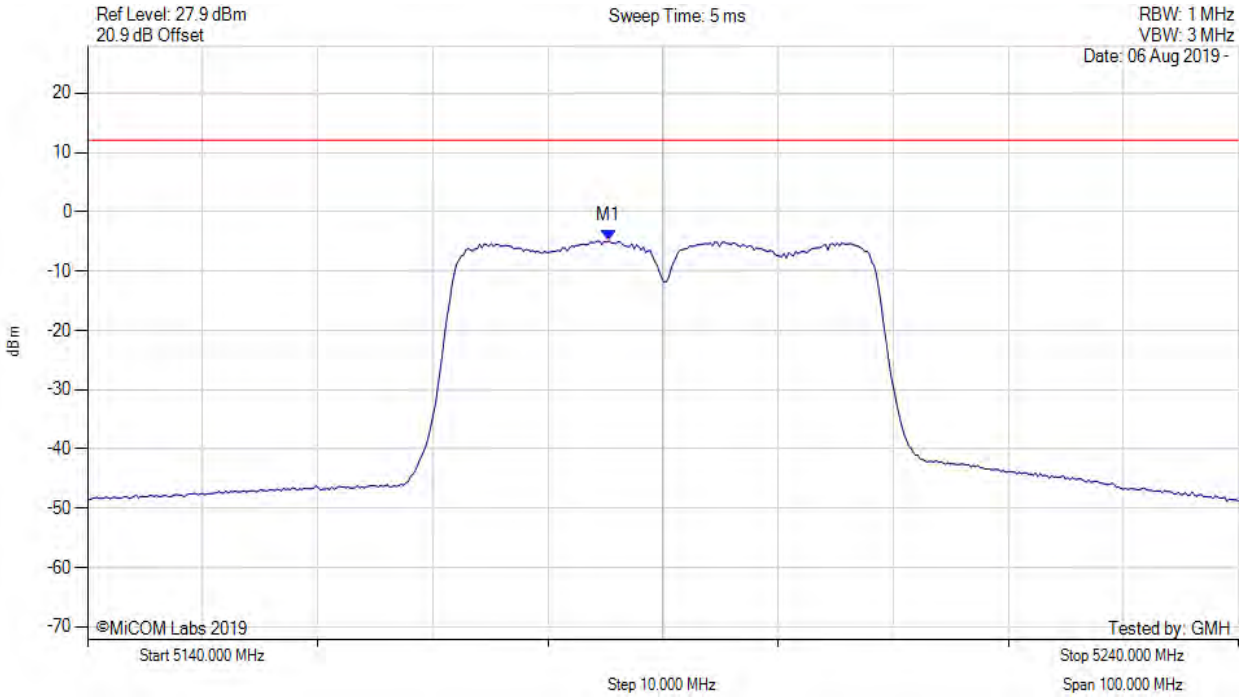



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5232.300 MHz : 6.187 dBm<br>M1 + DCCF : 5232.300 MHz : 6.275 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 15.1 dBm<br>Margin: -8.8 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

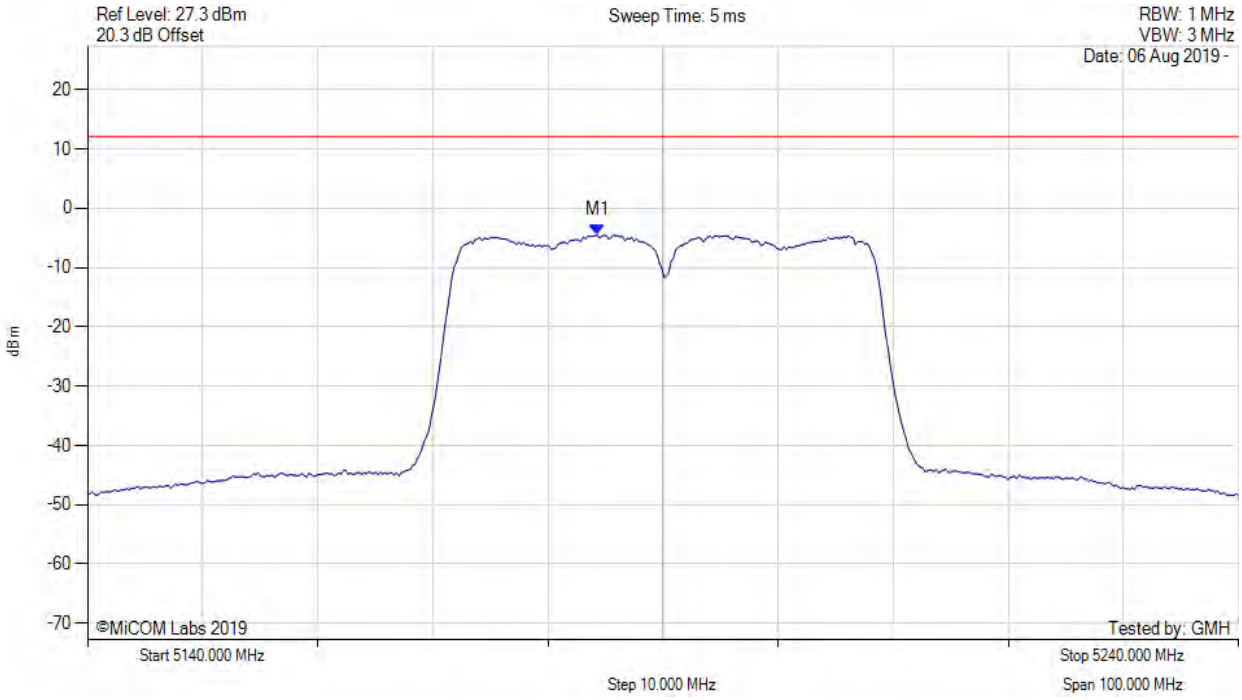



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5185.291 MHz : -4.890 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

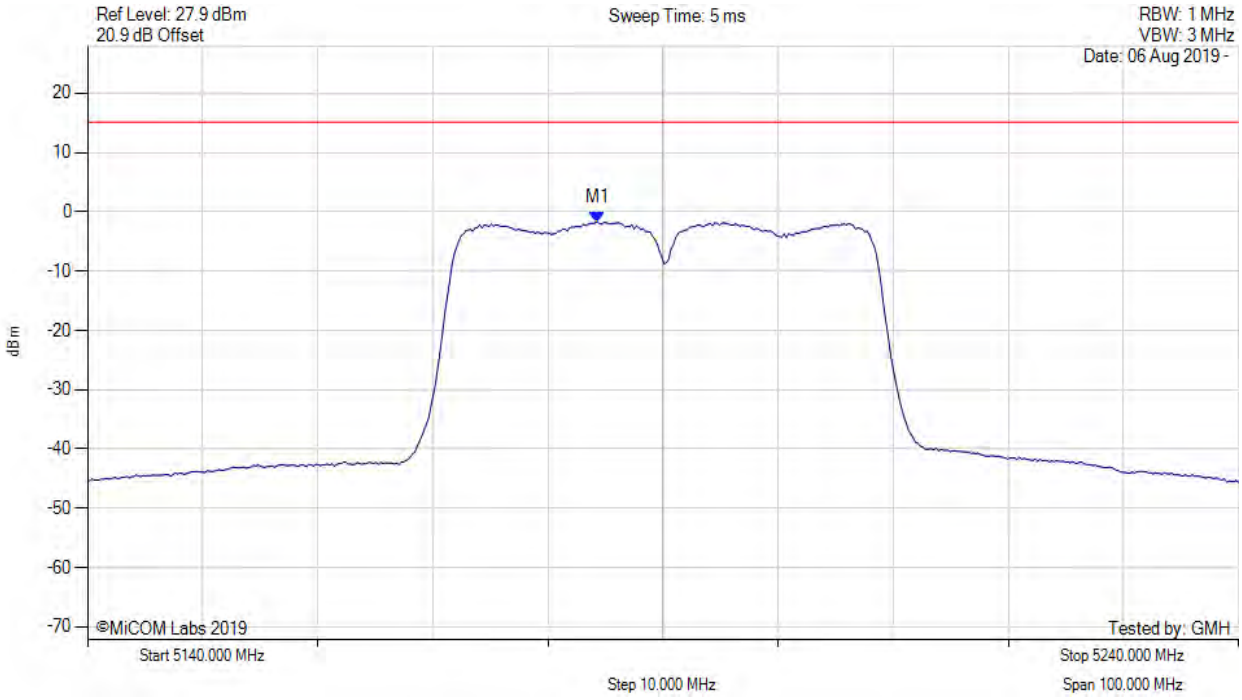



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5184.289 MHz : -4.522 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

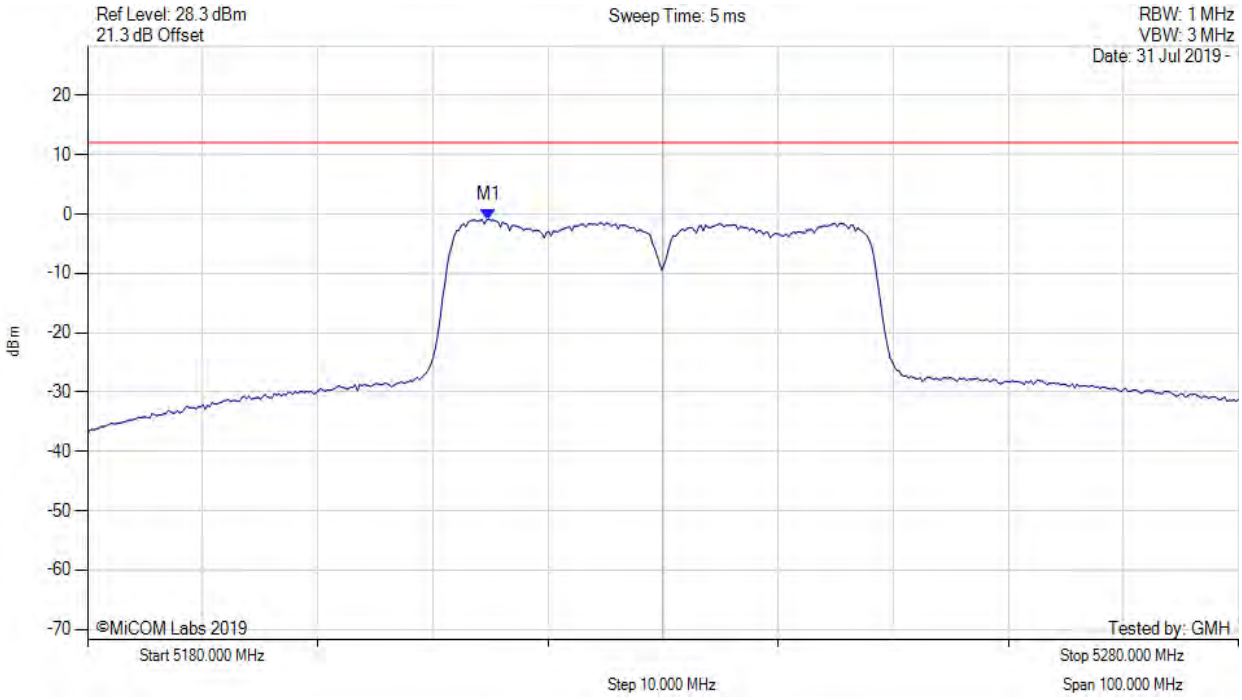



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5184.300 MHz : -1.707 dBm<br>M1 + DCCF : 5184.300 MHz : -1.619 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 15.1 dBm<br>Margin: -16.7 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

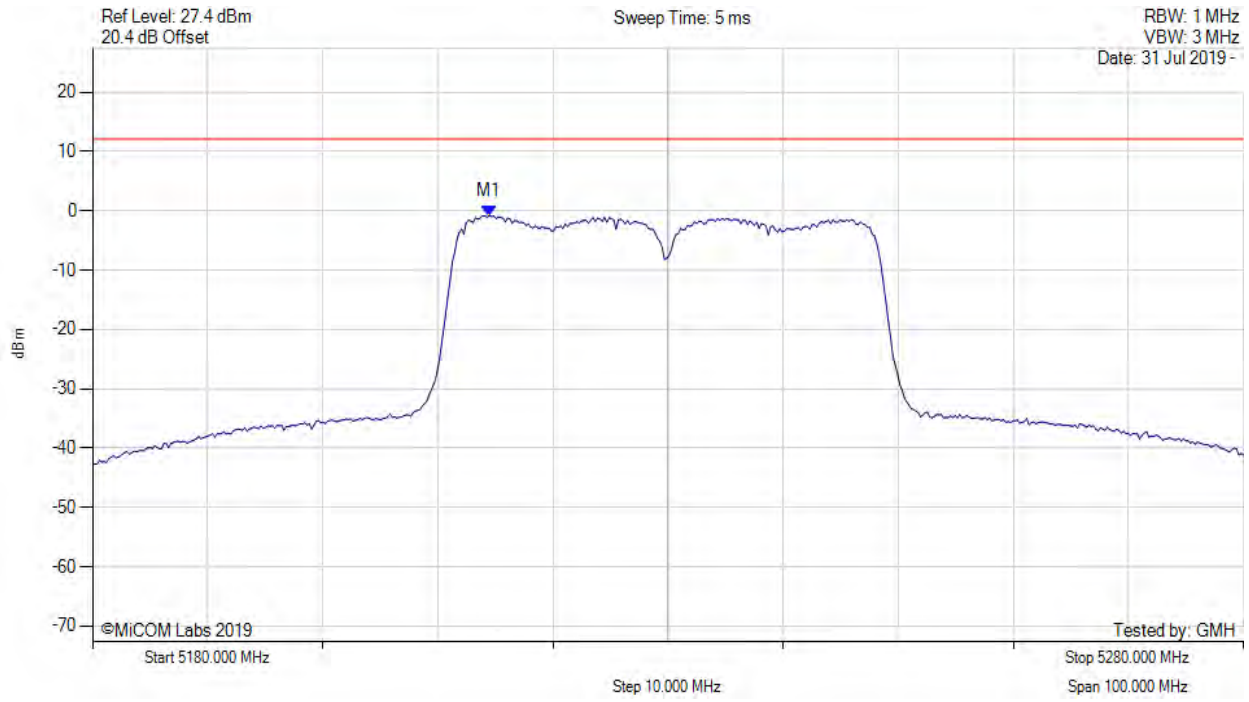



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5214.870 MHz : -0.886 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

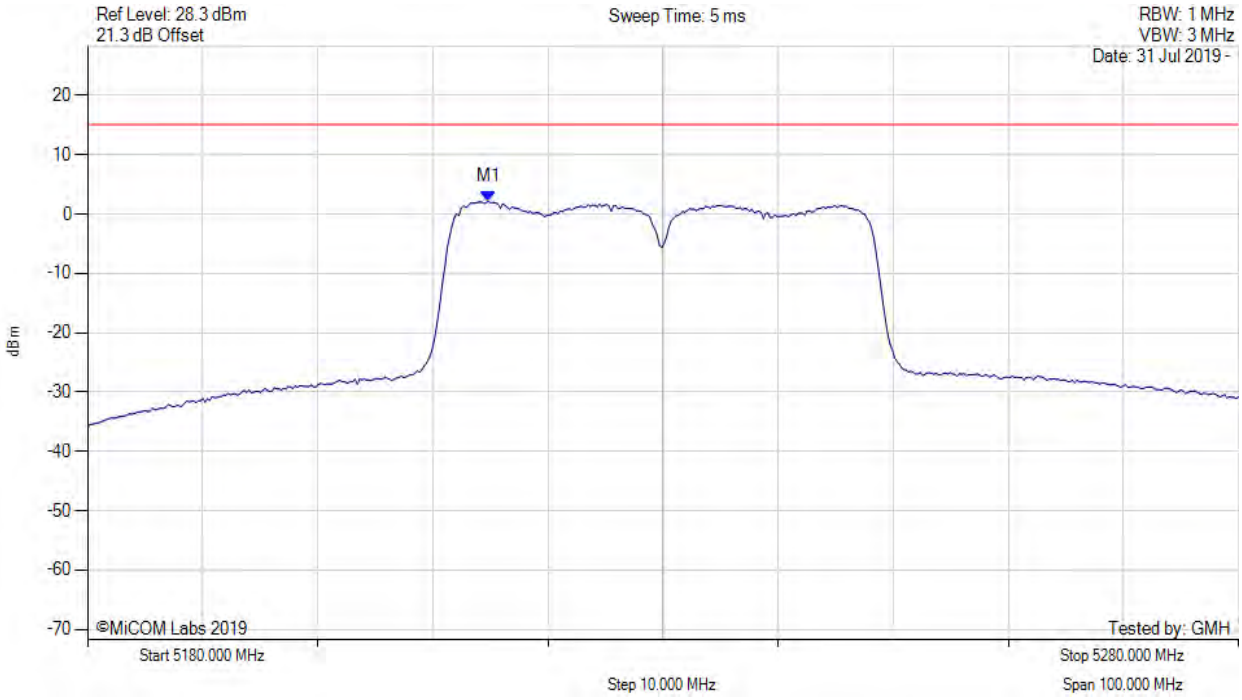



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5214.469 MHz : -0.853 dBm | Limit: ≤ 12.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

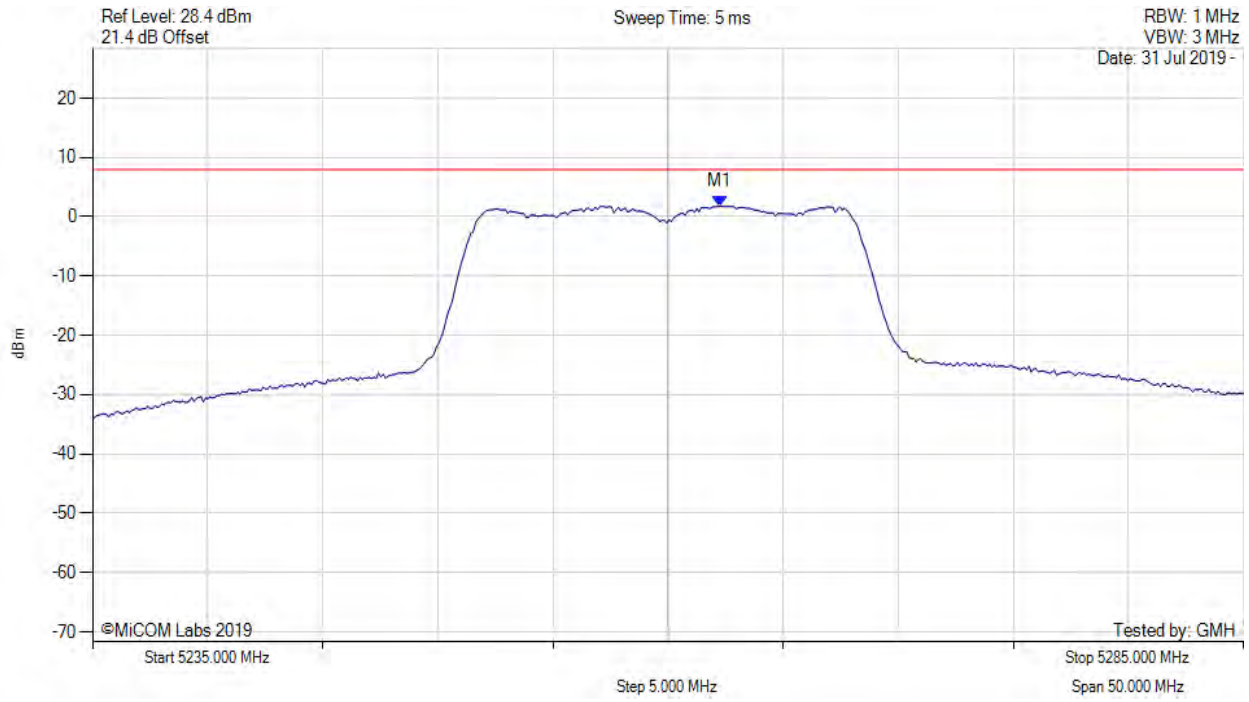



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5214.900 MHz : 2.129 dBm<br>M1 + DCCF : 5214.900 MHz : 2.217 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 15.1 dBm<br>Margin: -12.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

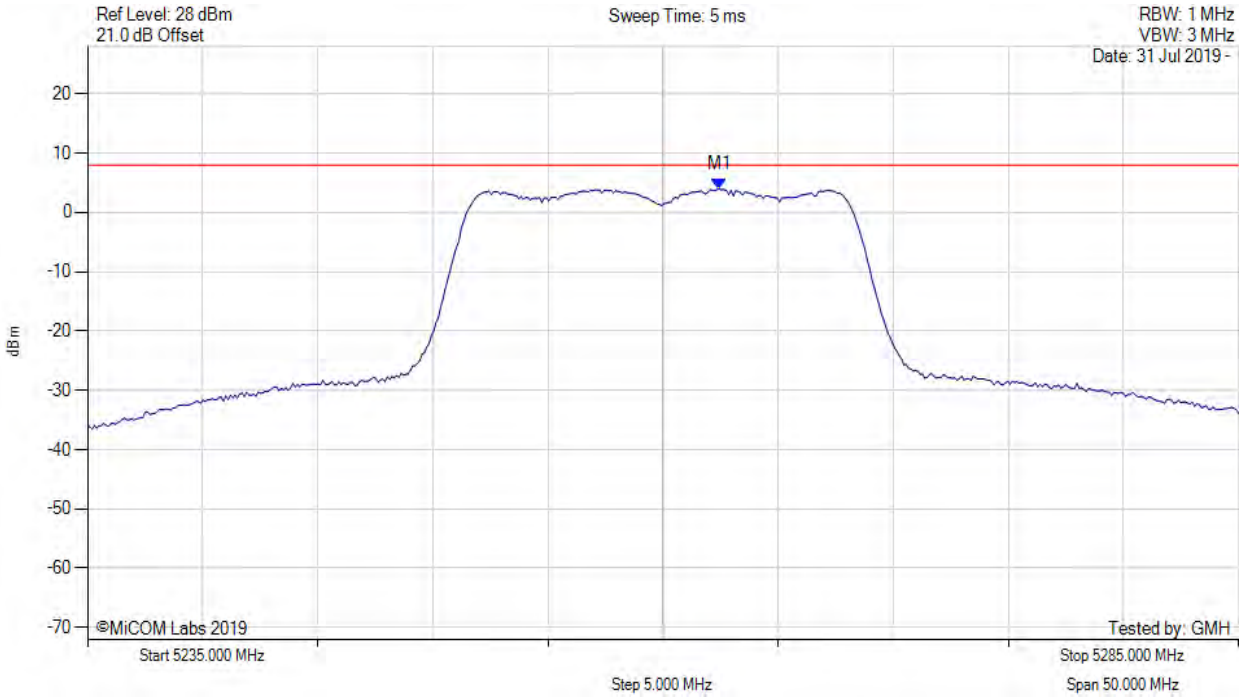



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.255 MHz : 1.768 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

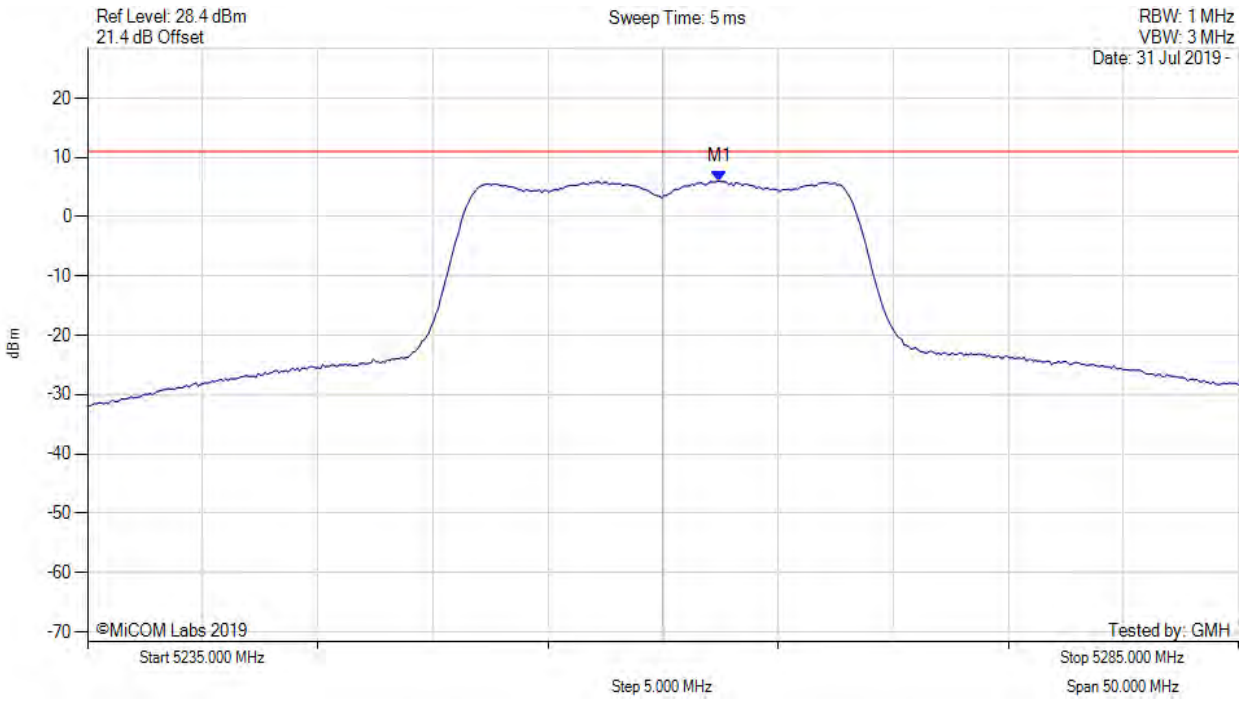



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.455 MHz : 3.929 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

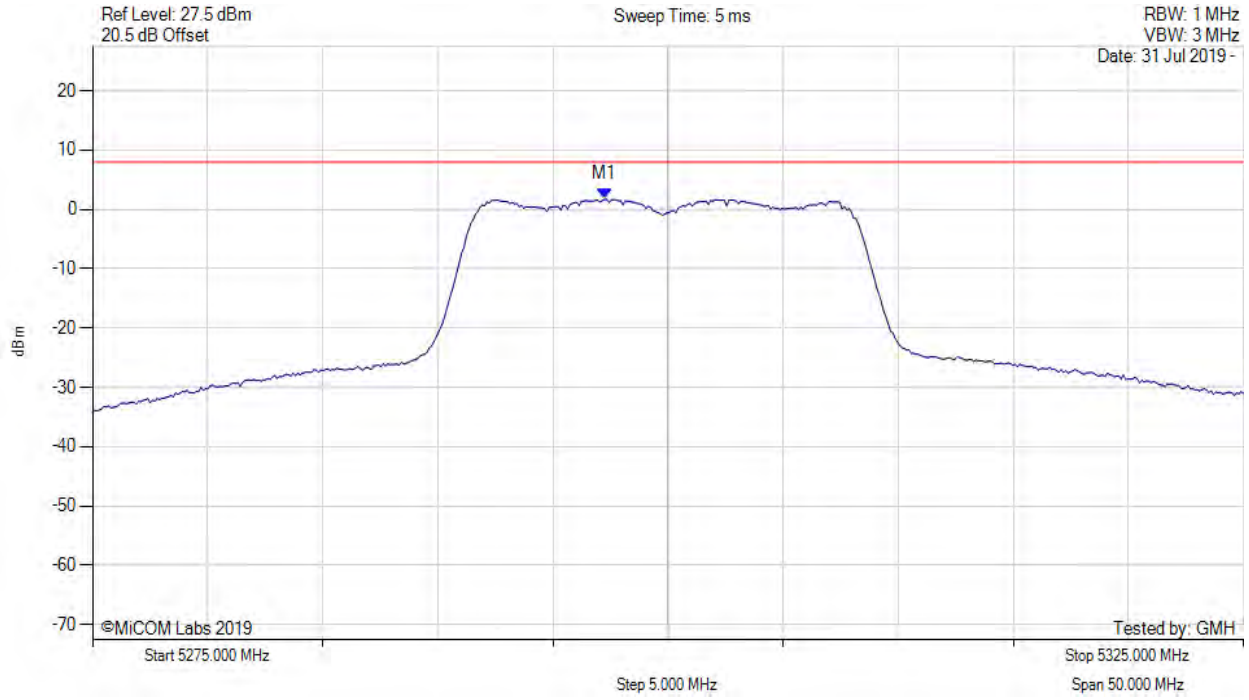



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.500 MHz : 5.981 dBm<br>M1 + DCCF : 5262.500 MHz : 6.069 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -4.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

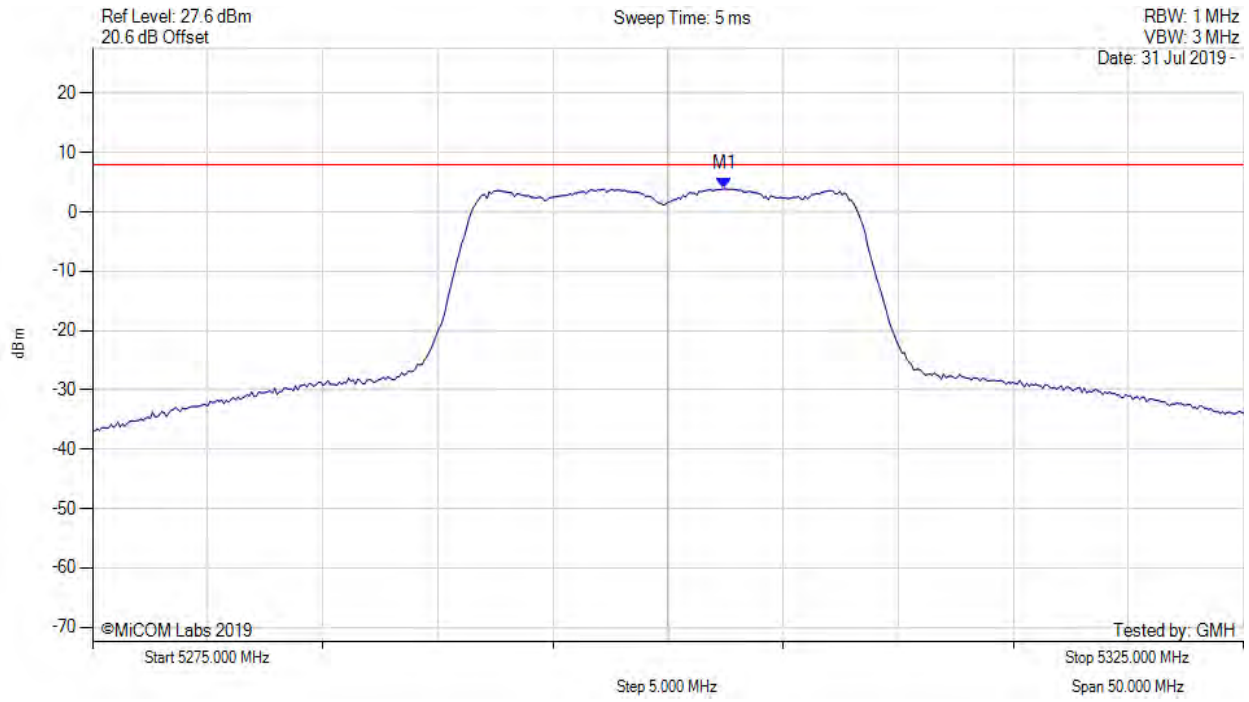



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5297.244 MHz : 1.679 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

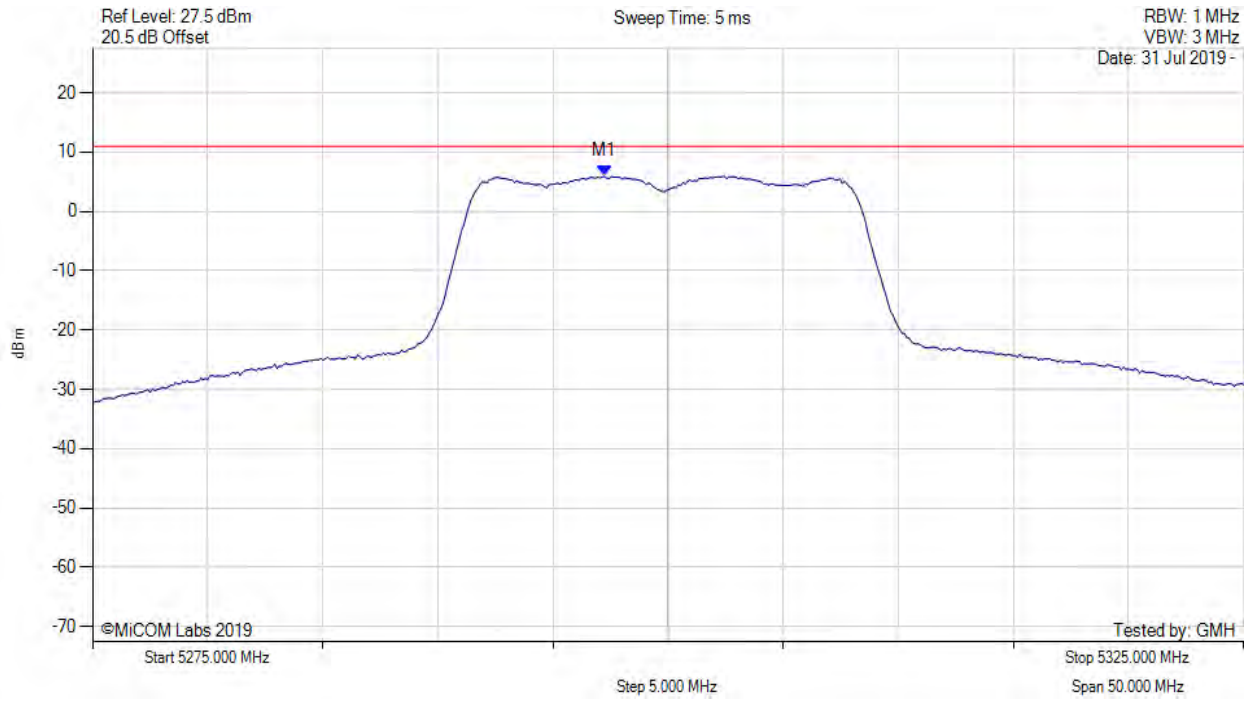



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5302.455 MHz : 3.903 dBm | Channel Frequency: 5300.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

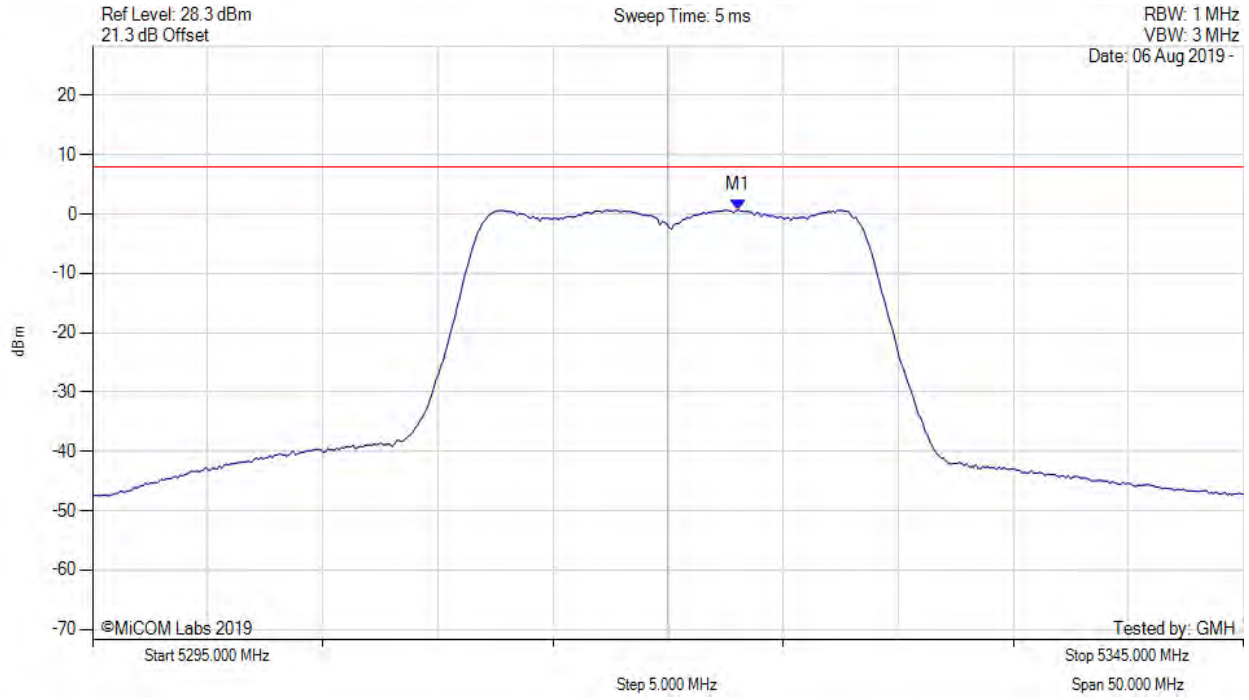



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5297.200 MHz : 5.924 dBm<br>M1 + DCCF : 5297.200 MHz : 6.012 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -5.0 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

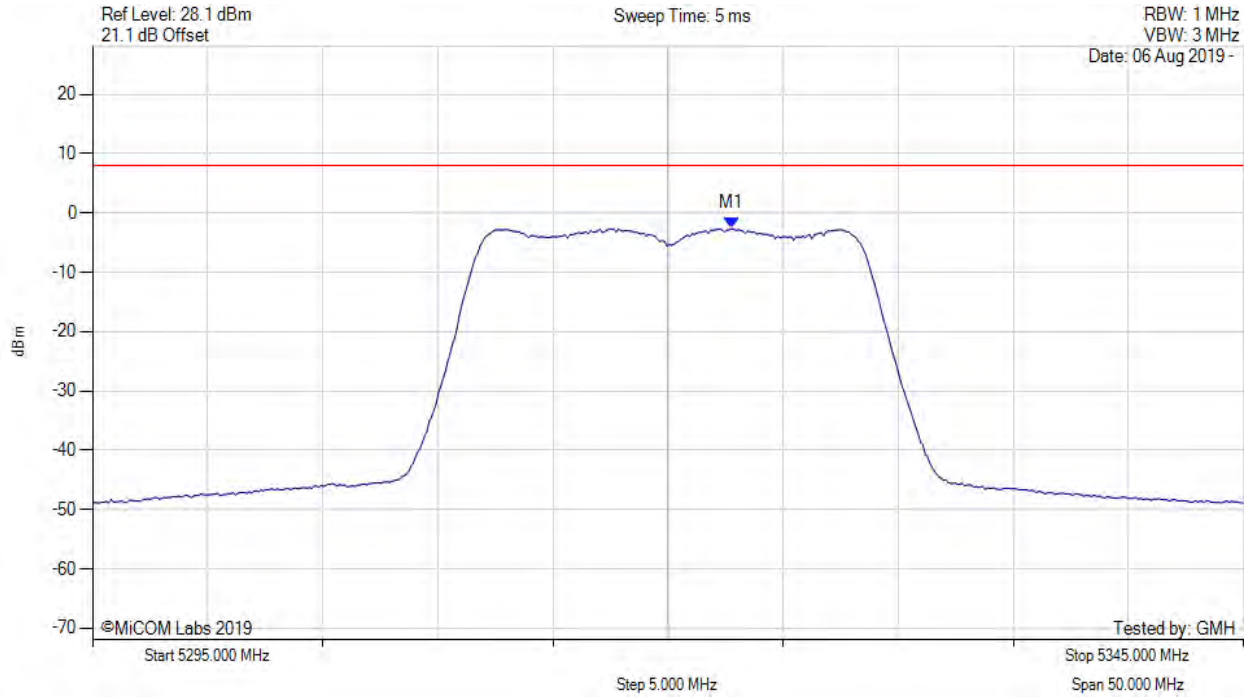



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5323.056 MHz : 0.709 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

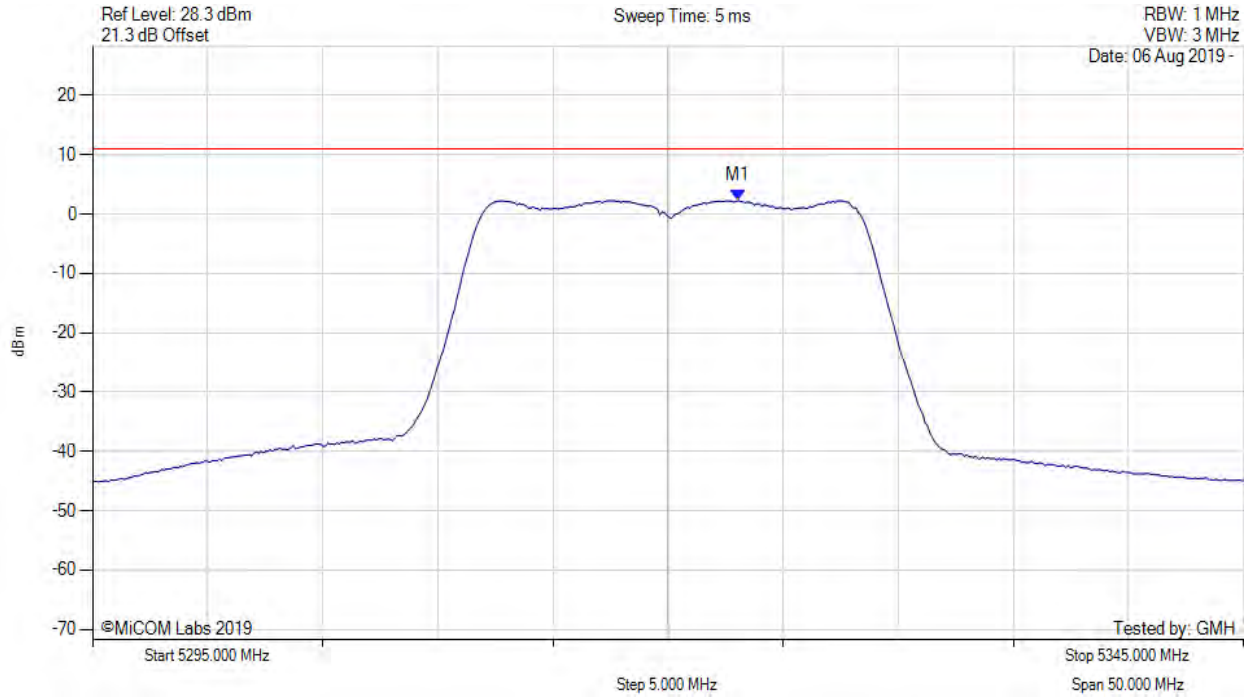



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5322.756 MHz : -2.624 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

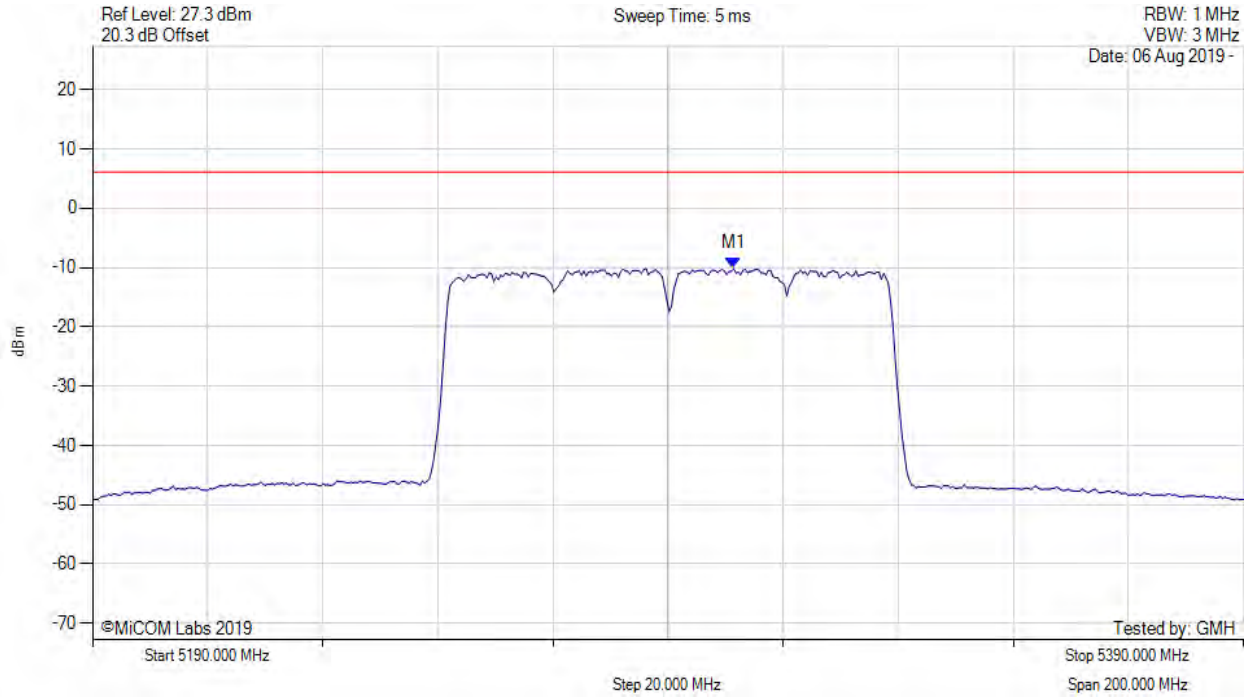



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5323.100 MHz : 2.306 dBm<br>M1 + DCCF : 5323.100 MHz : 2.394 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -8.6 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

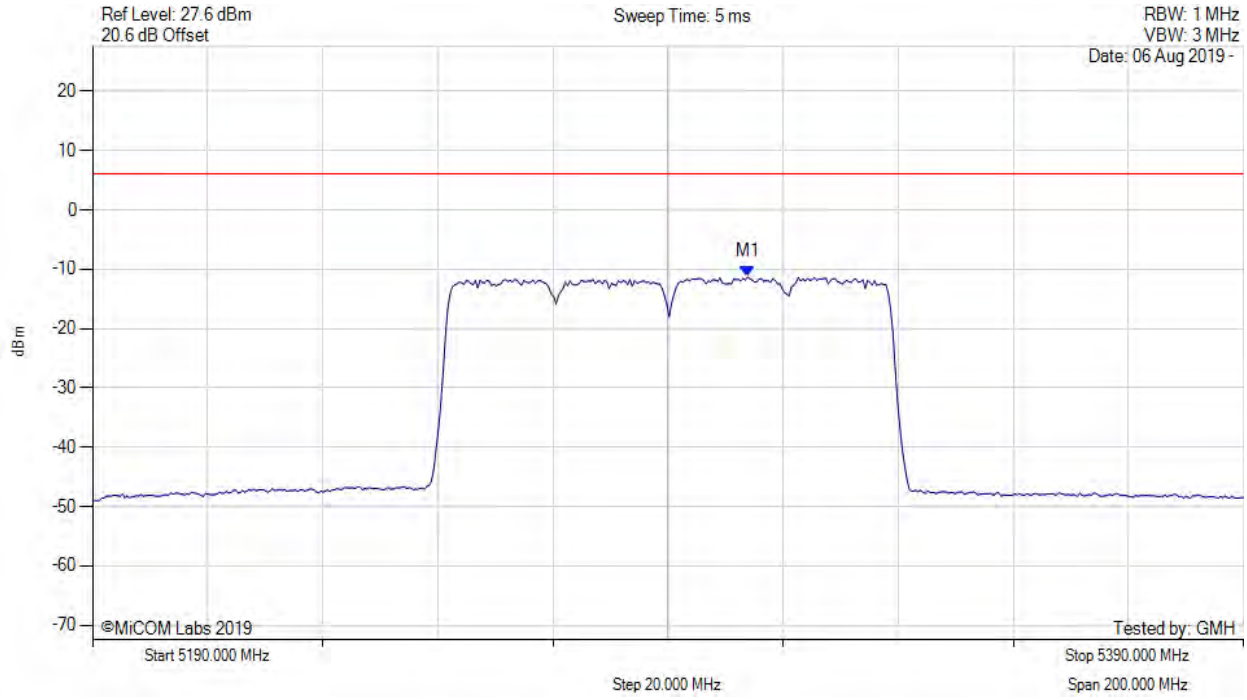



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5301.423 MHz : -10.181 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

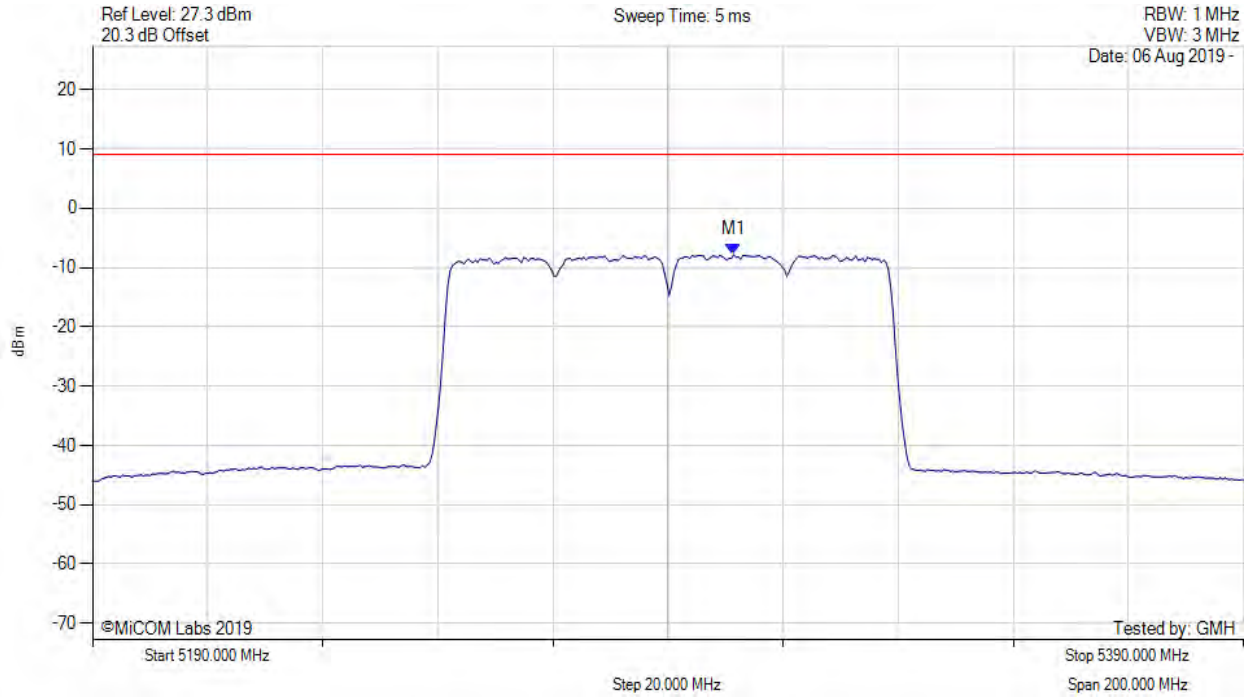



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5303.828 MHz : -11.284 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

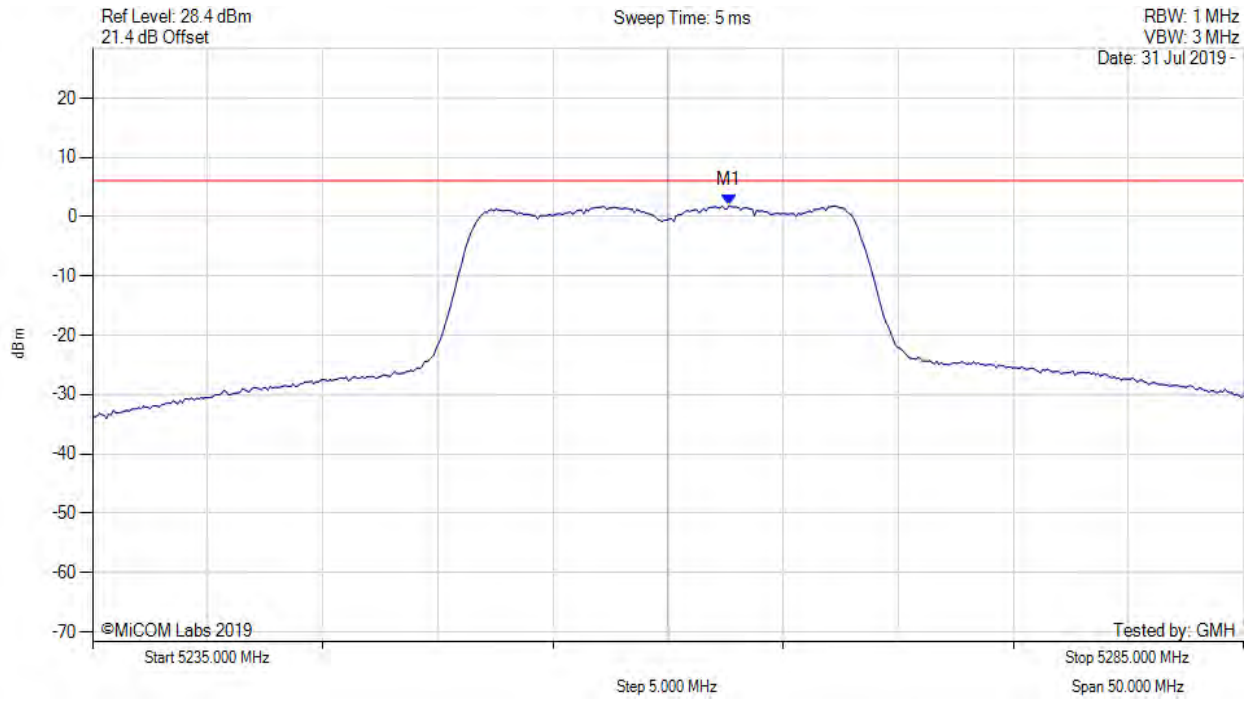



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5301.400 MHz : -7.830 dBm<br>M1 + DCCF : 5301.400 MHz : -7.275 dBm<br>Duty Cycle Correction Factor : +0.56 dB | Limit: ≤ 9.1 dBm<br>Margin: -16.4 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

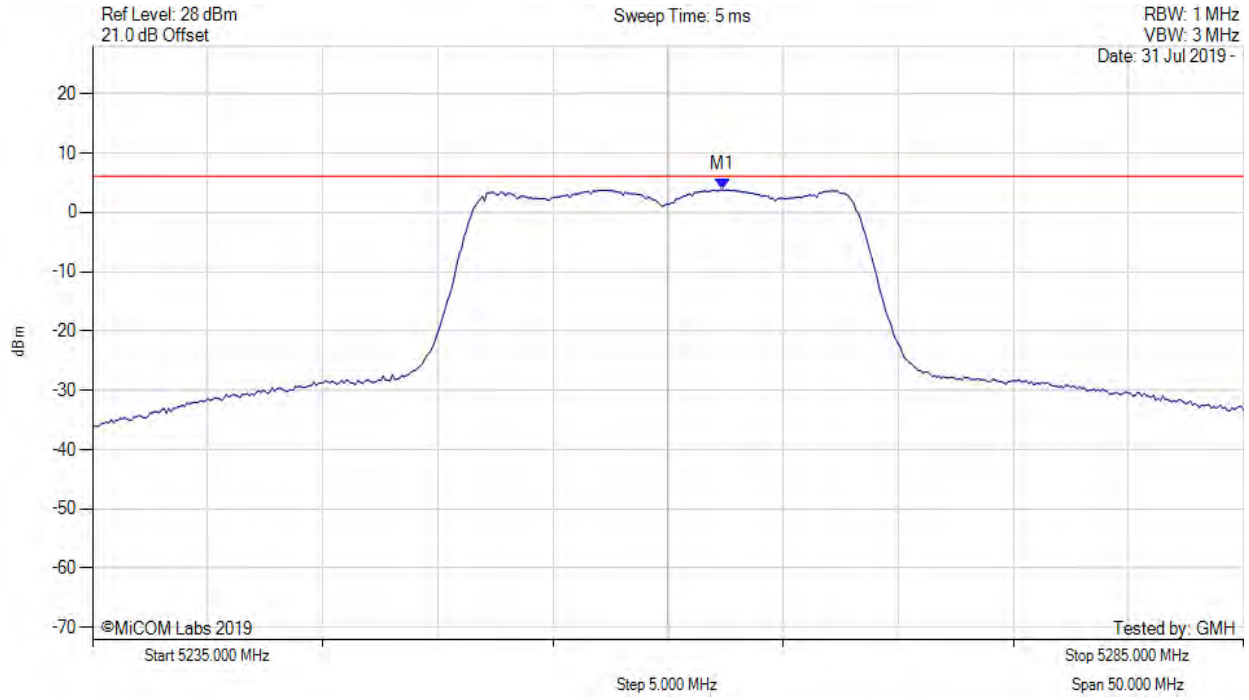



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.655 MHz : 1.875 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

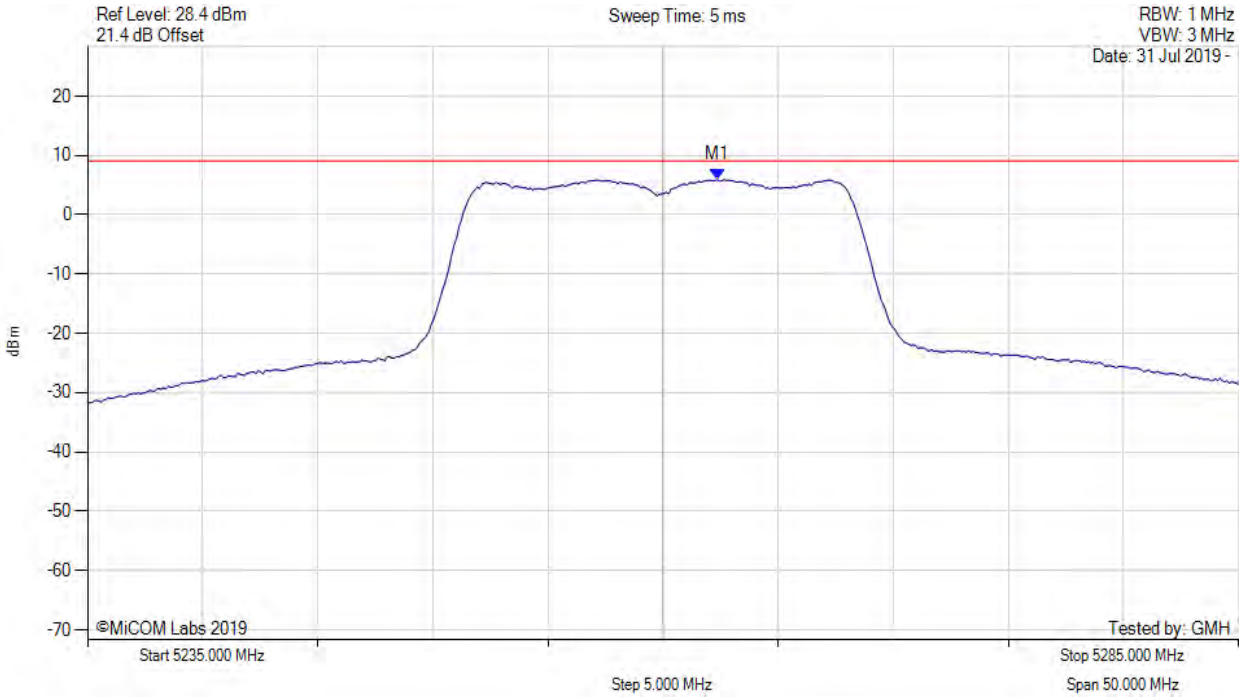



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.355 MHz : 3.812 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

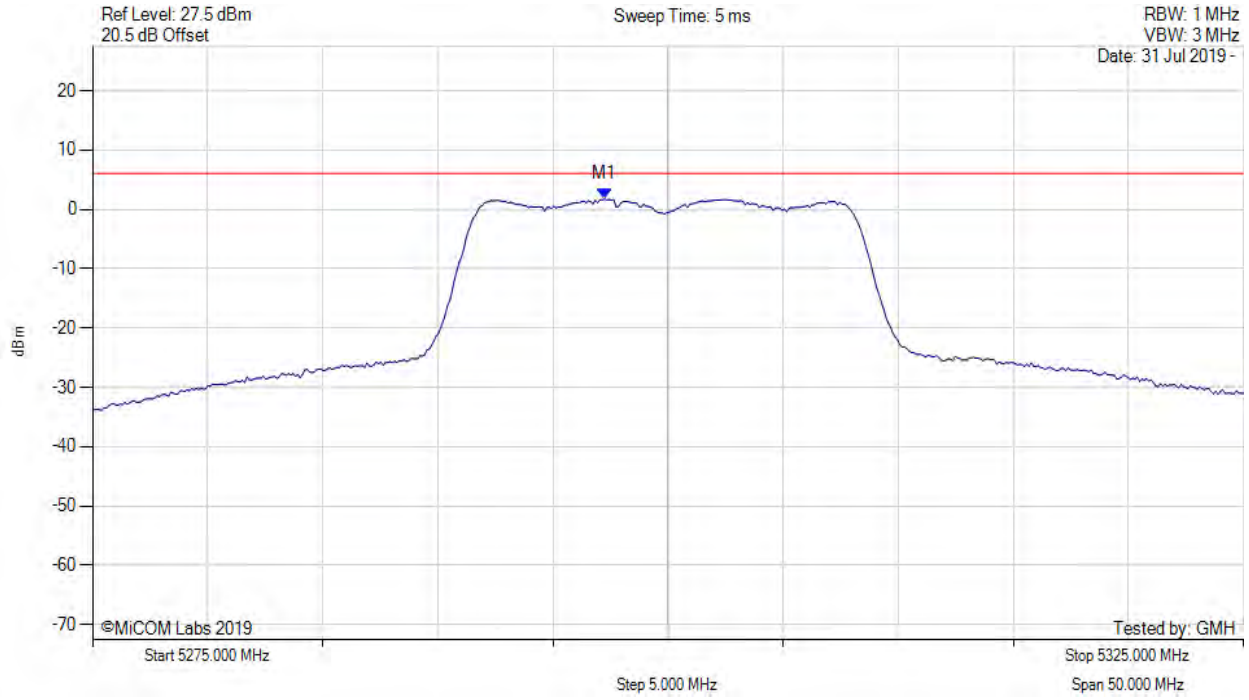



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5262.400 MHz : 5.930 dBm<br>M1 + DCCF : 5262.400 MHz : 6.018 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -3.1 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

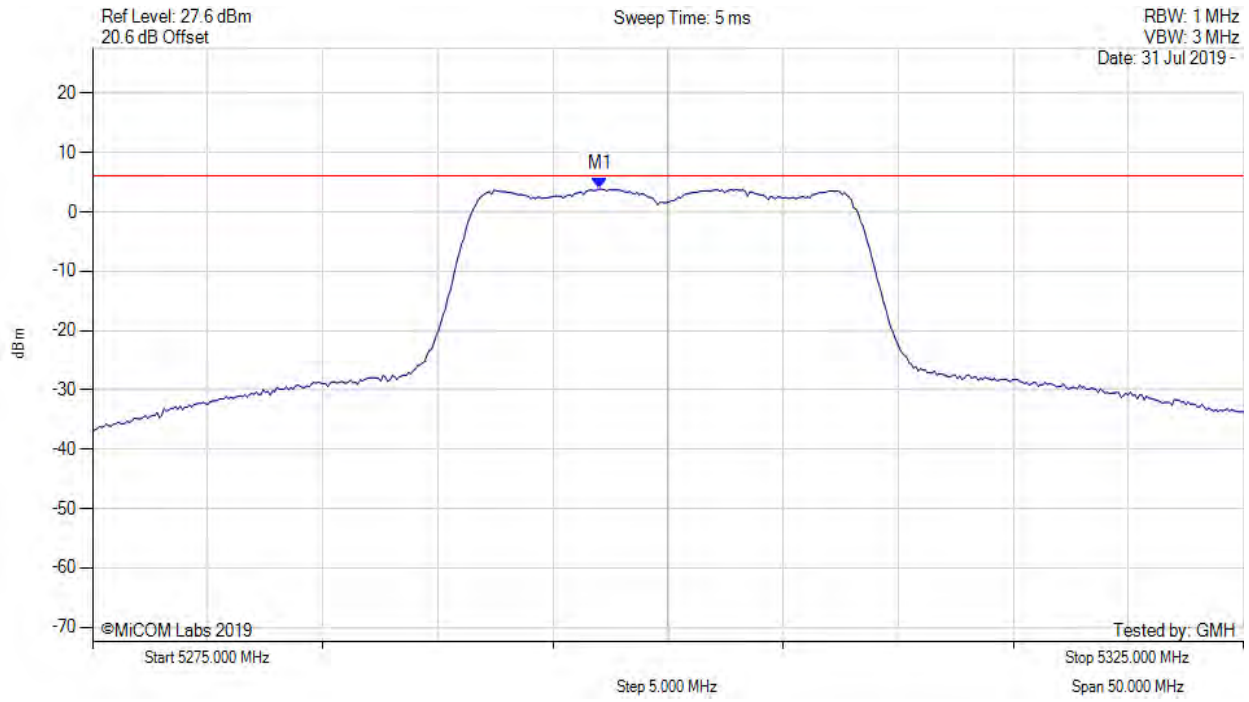



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5297.244 MHz : 1.744 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

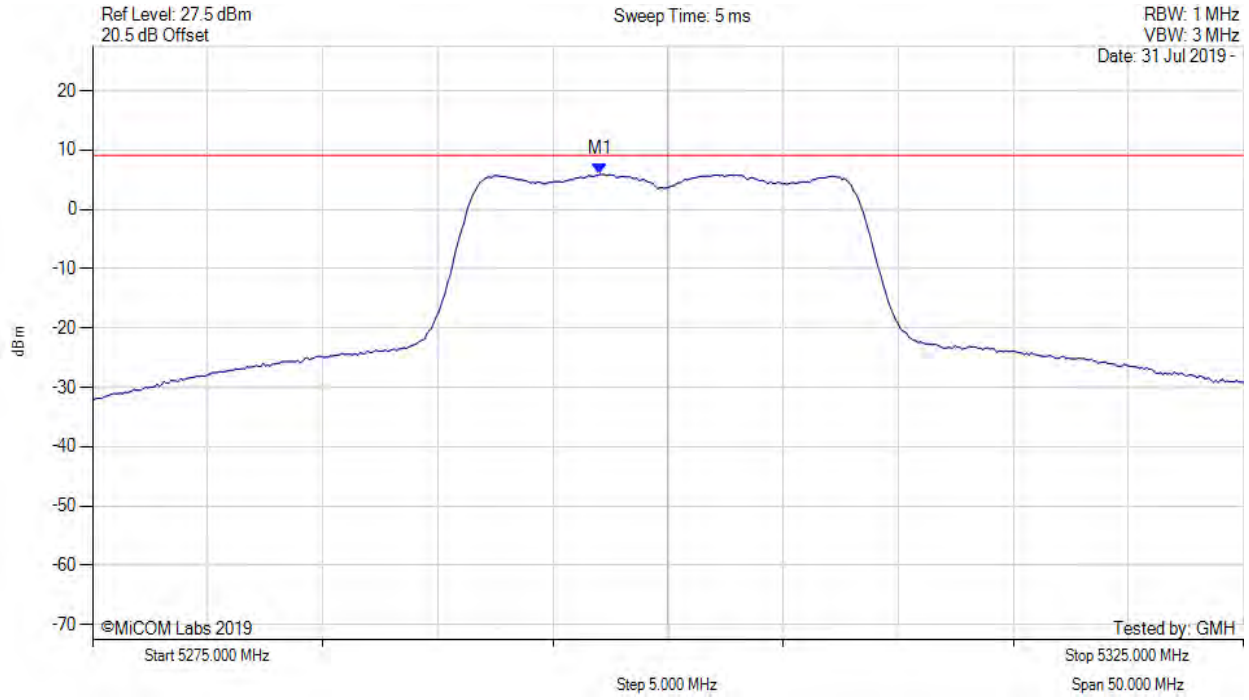



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5297.044 MHz : 3.890 dBm | Channel Frequency: 5300.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

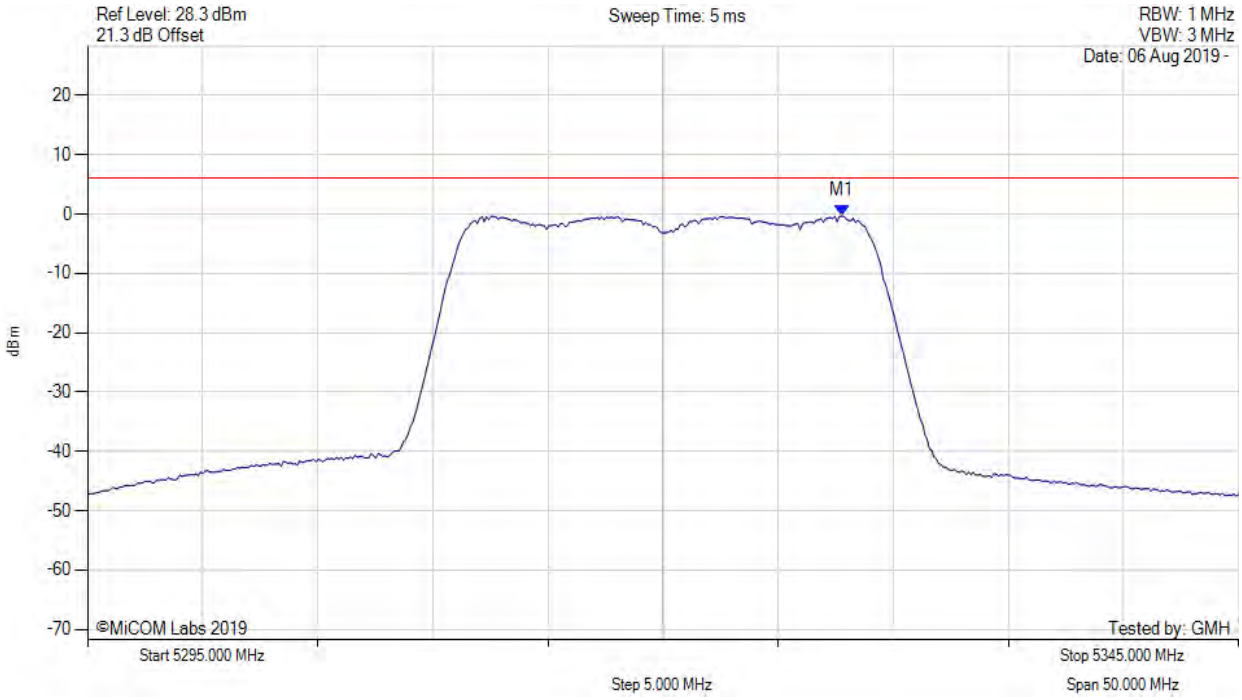



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5297.000 MHz : 5.914 dBm<br>M1 + DCCF : 5297.000 MHz : 6.002 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -3.1 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

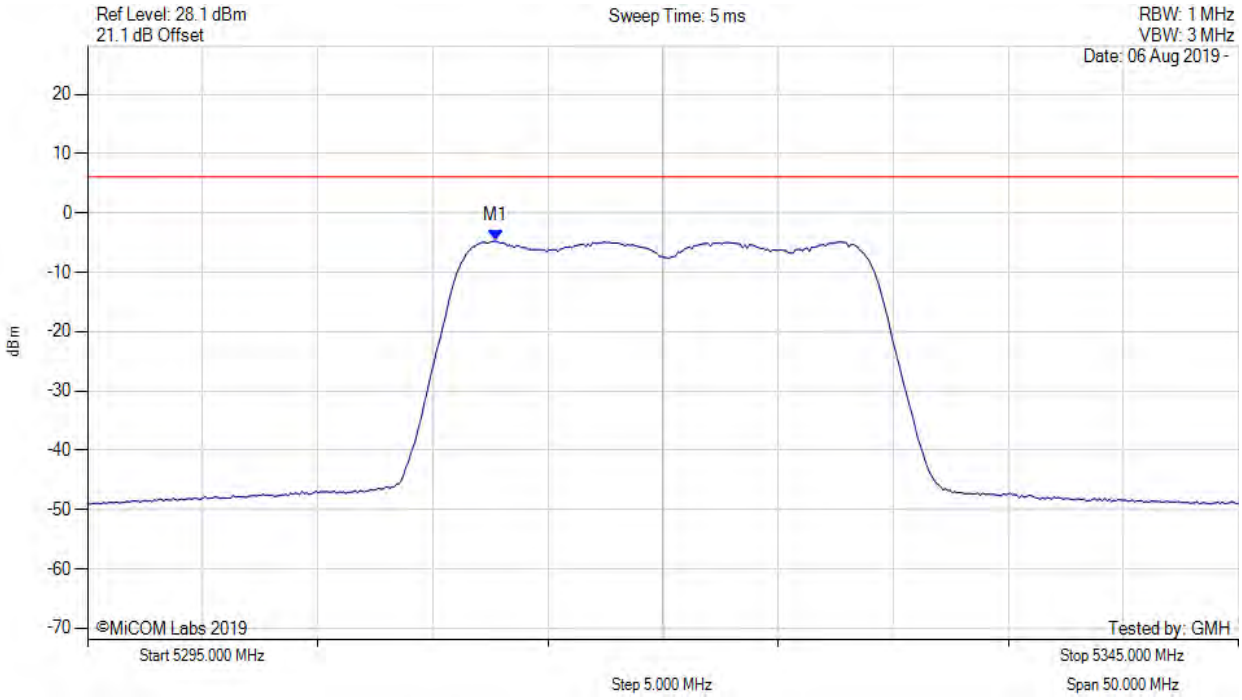



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5327.766 MHz : -0.320 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

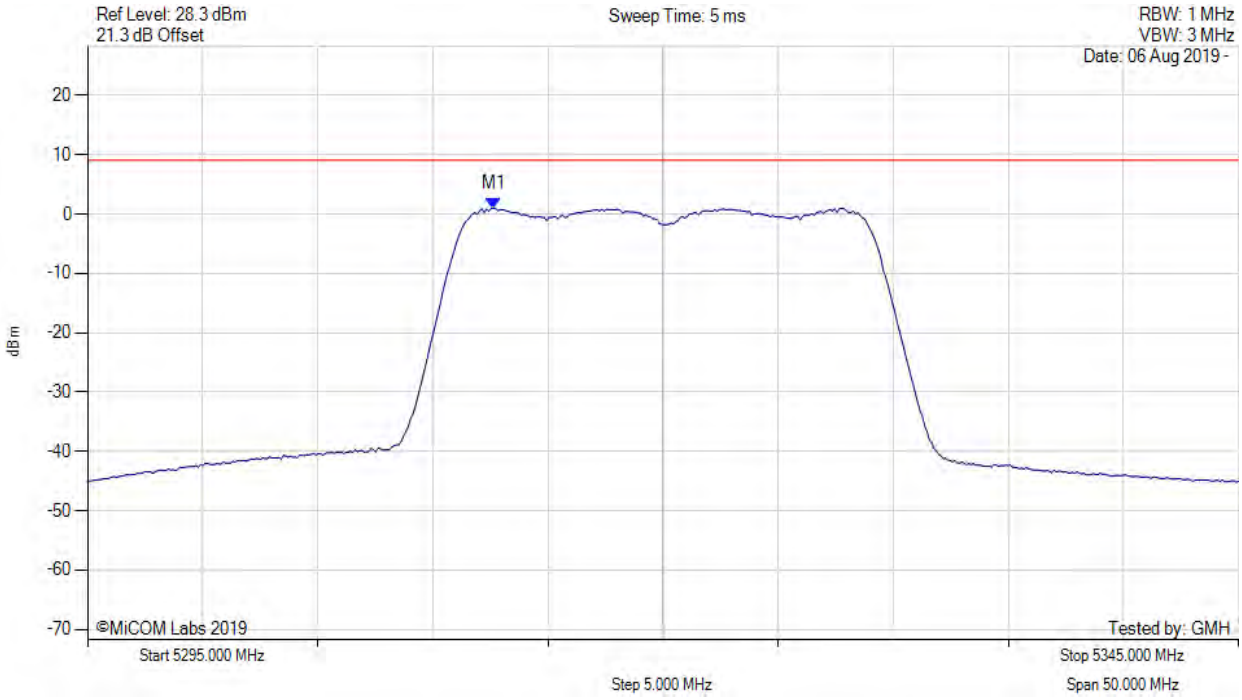



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5312.735 MHz : -4.724 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

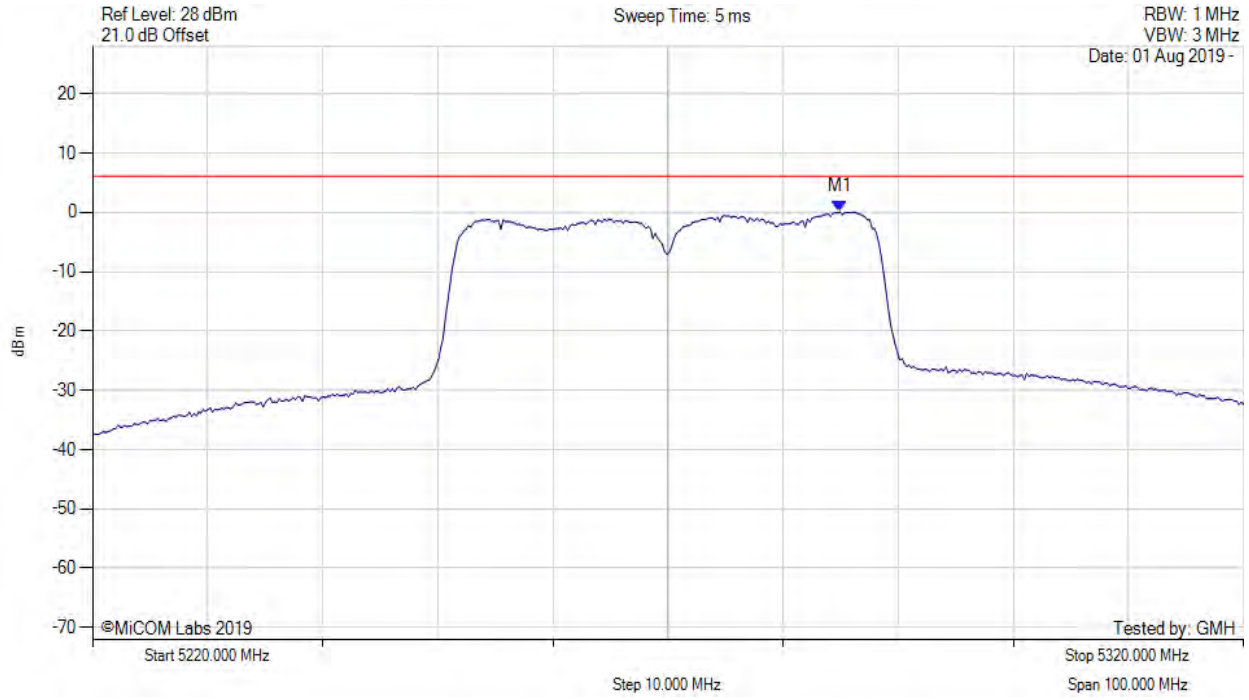



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5312.600 MHz : 1.008 dBm<br>M1 + DCCF : 5312.600 MHz : 1.096 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -8.0 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

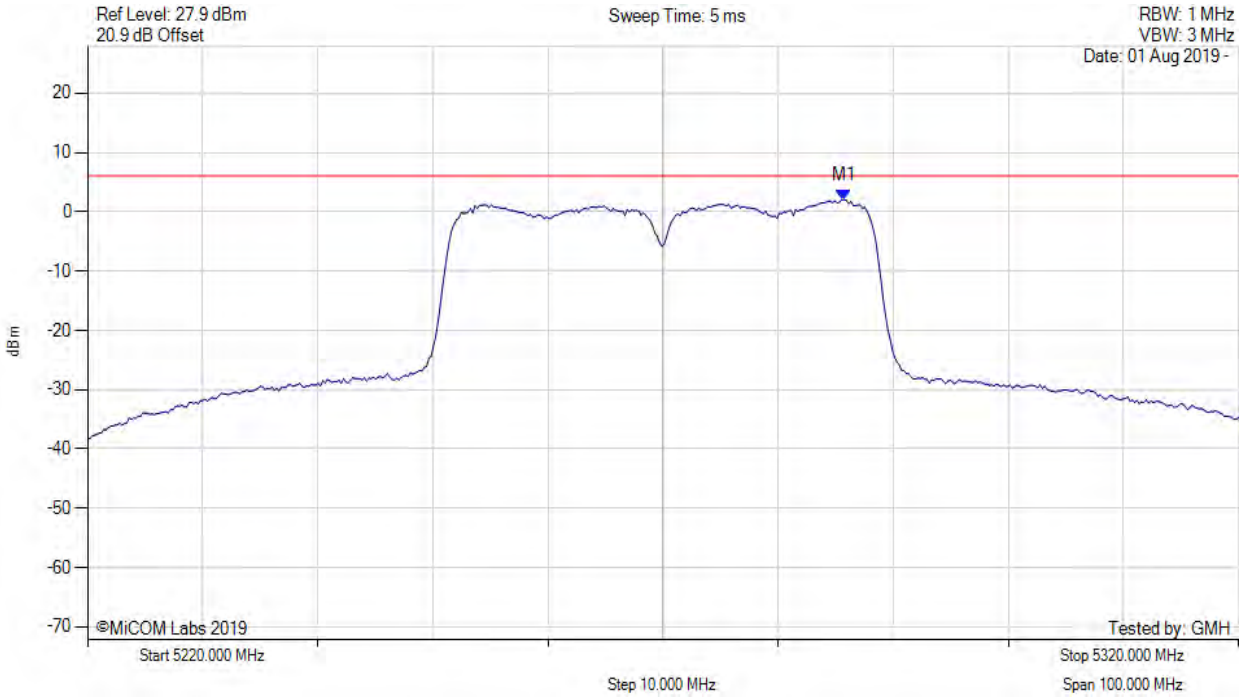



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5284.930 MHz : 0.114 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

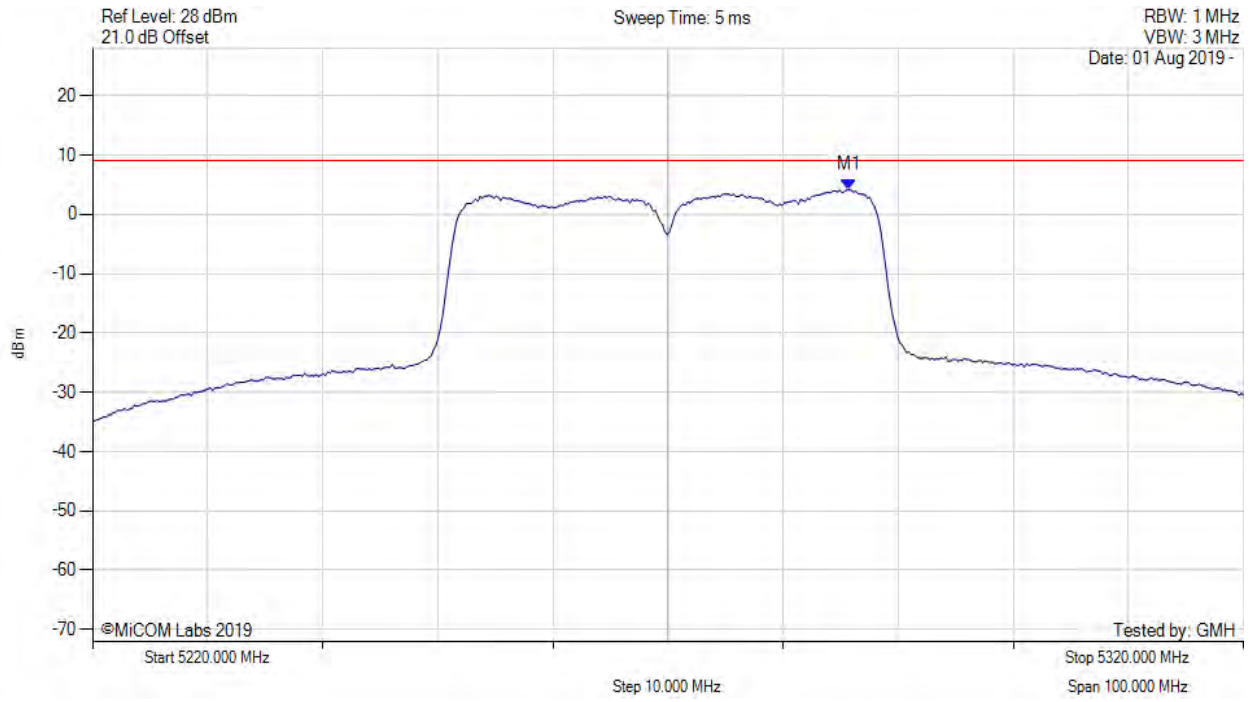



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5285.731 MHz : 2.023 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5270.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

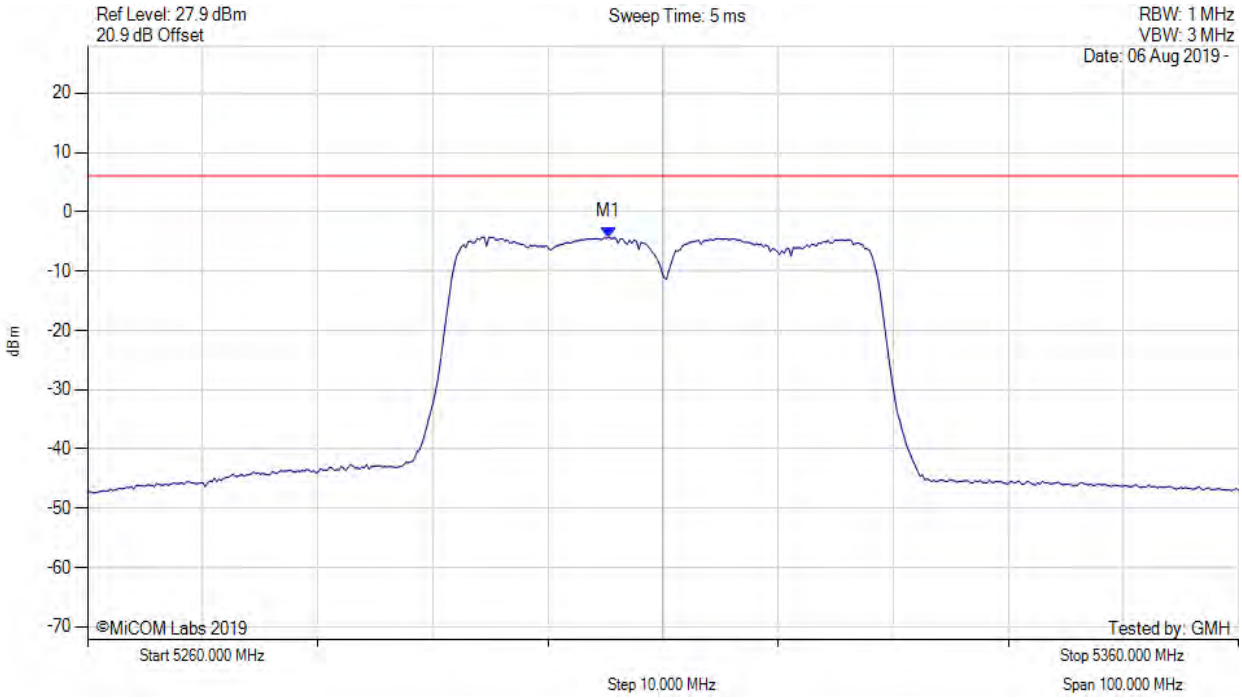



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5285.700 MHz : 4.134 dBm<br>M1 + DCCF : 5285.700 MHz : 4.222 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -4.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

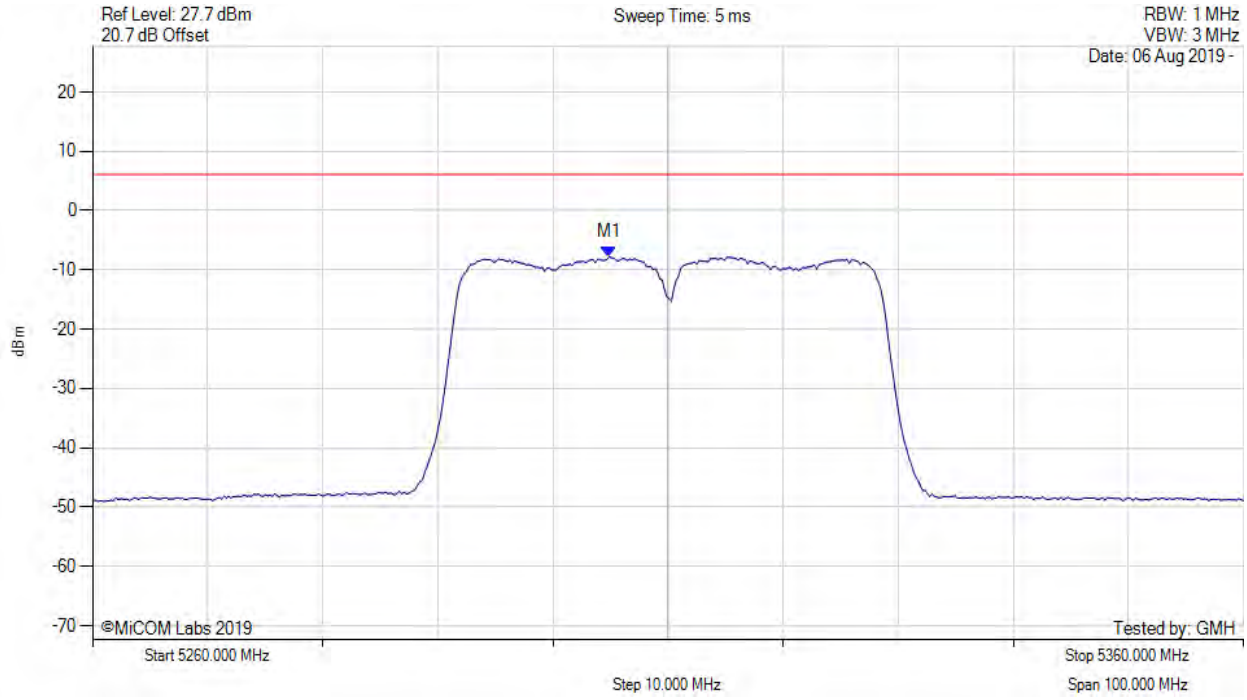



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5305.291 MHz : -4.252 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

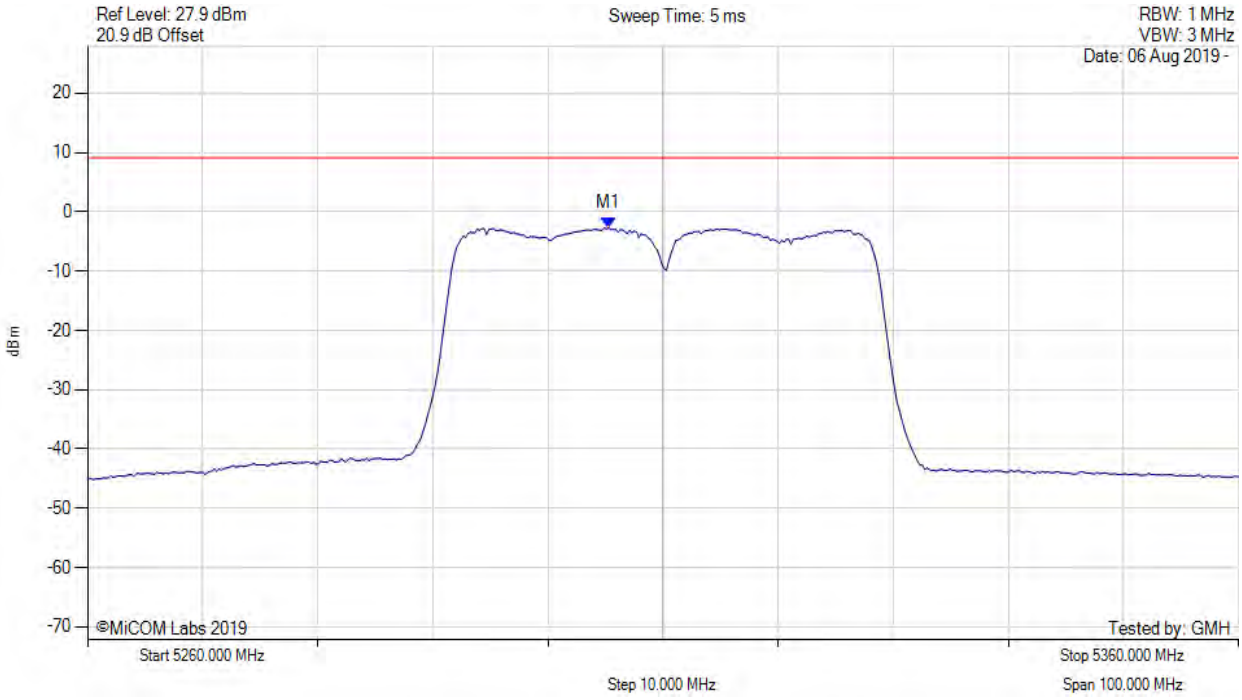



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5304.890 MHz : -7.772 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5310.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

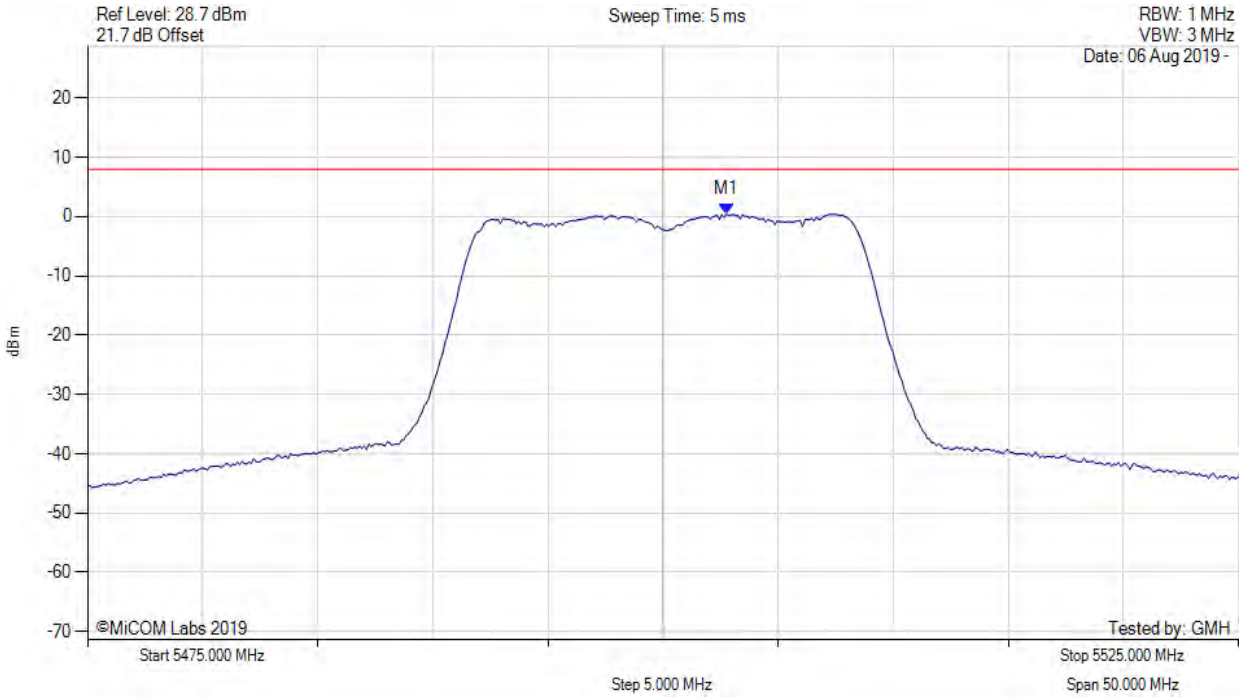



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5305.300 MHz : -2.720 dBm<br>M1 + DCCF : 5305.300 MHz : -2.632 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -11.7 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

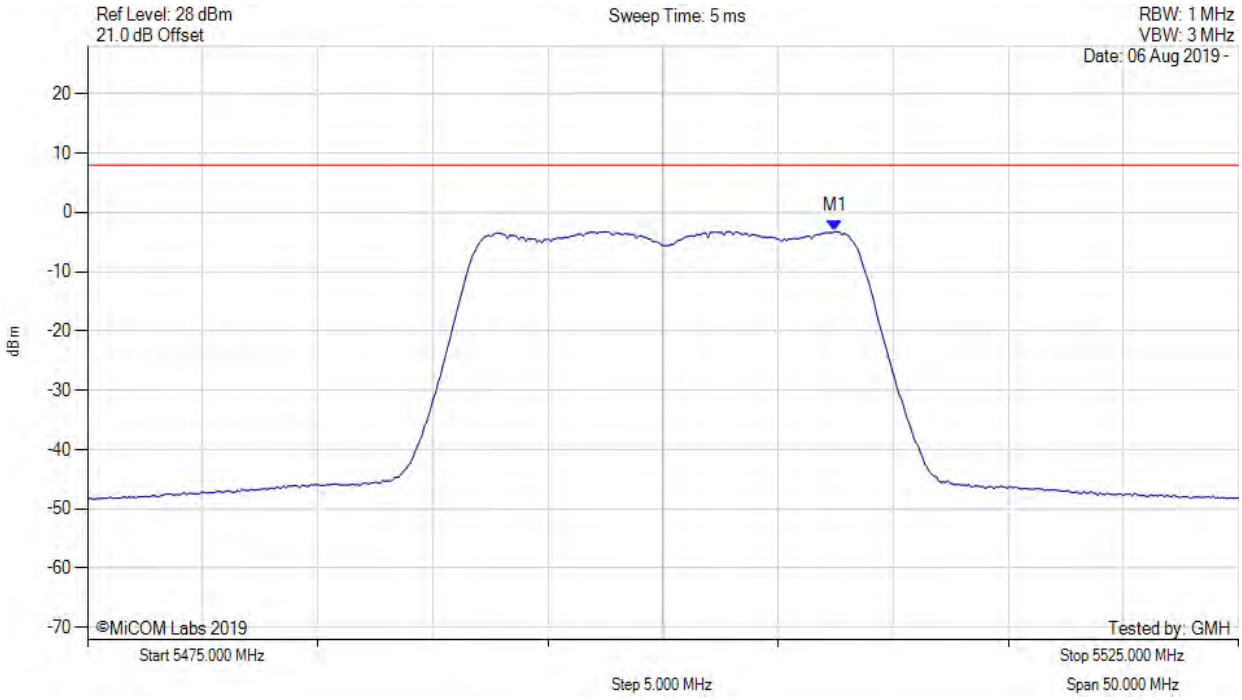



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5502.756 MHz : 0.395 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

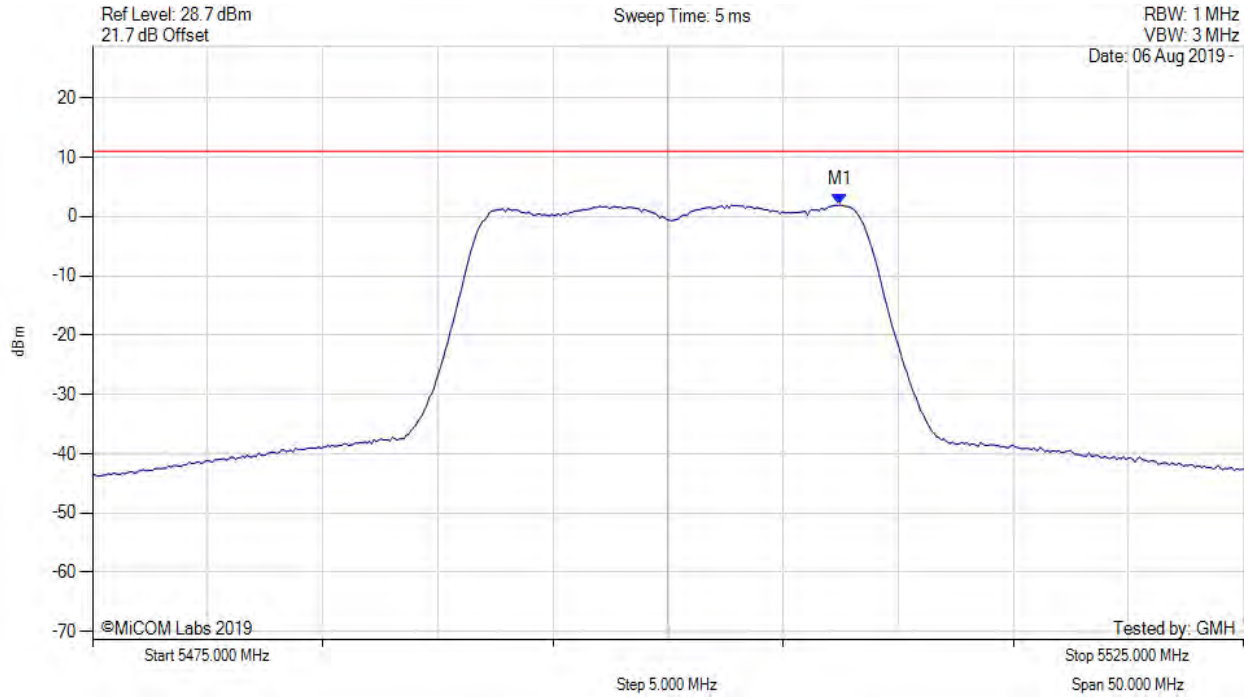



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5507.465 MHz : -3.211 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

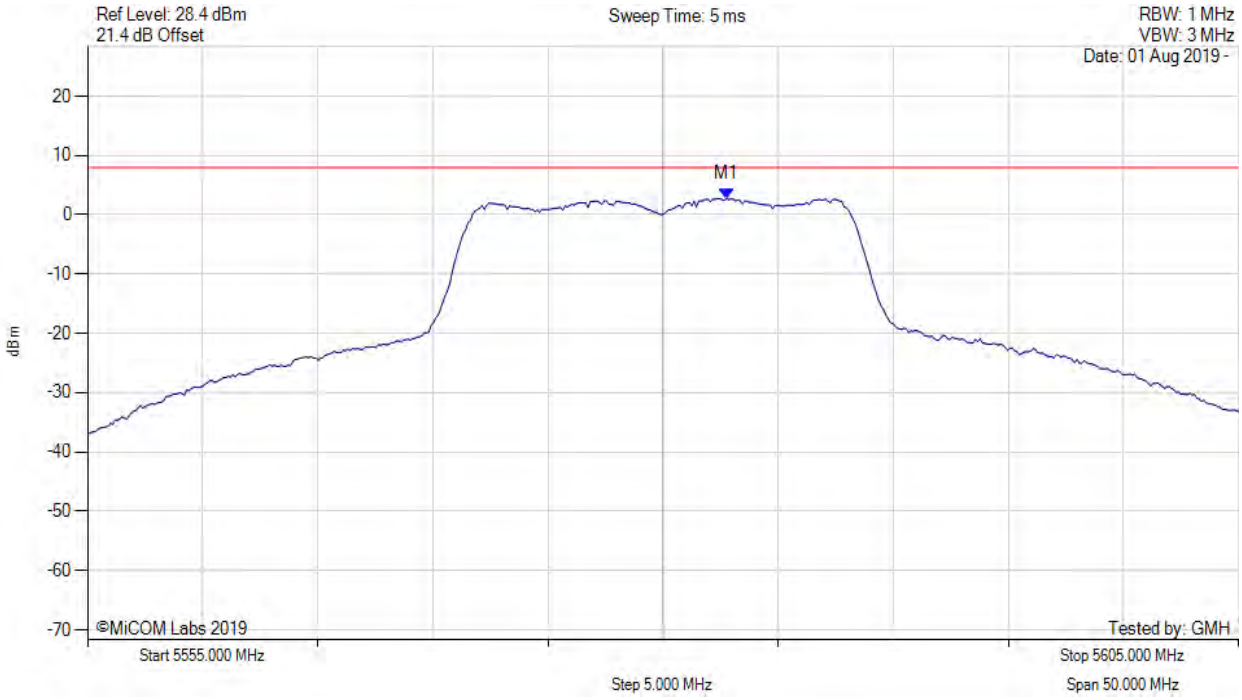



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5507.500 MHz : 1.965 dBm<br>M1 + DCCF : 5507.500 MHz : 2.053 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -9.0 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

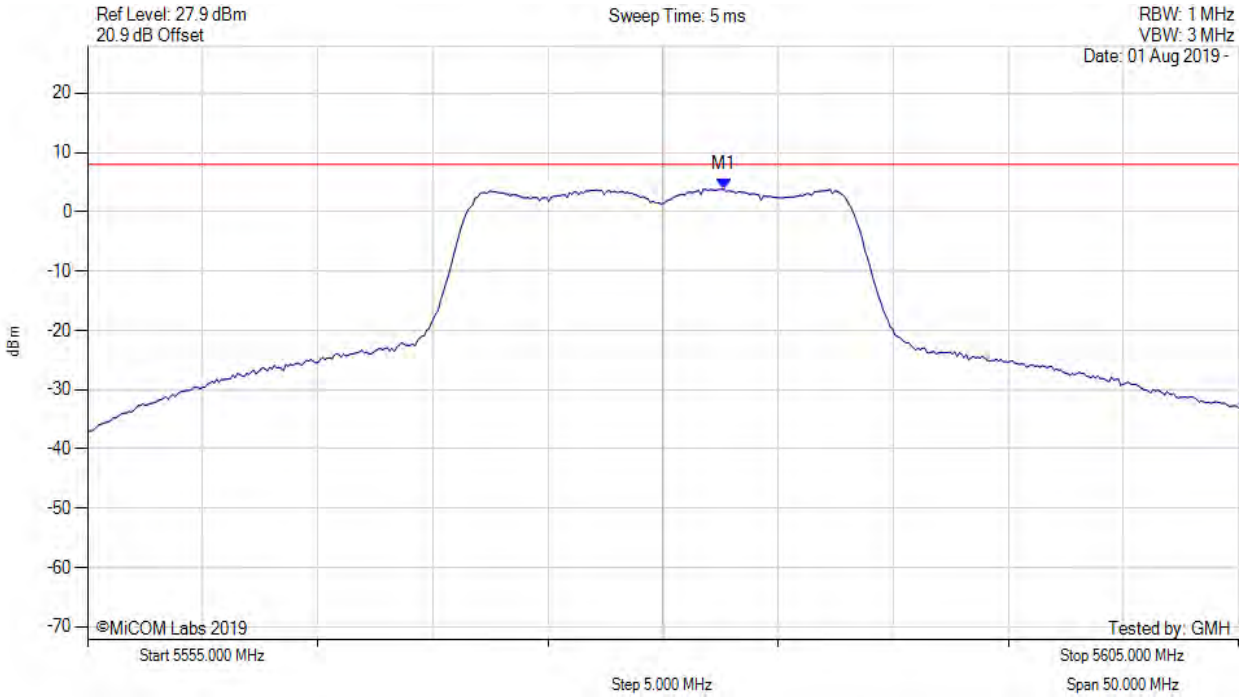



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5582.756 MHz : 2.716 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

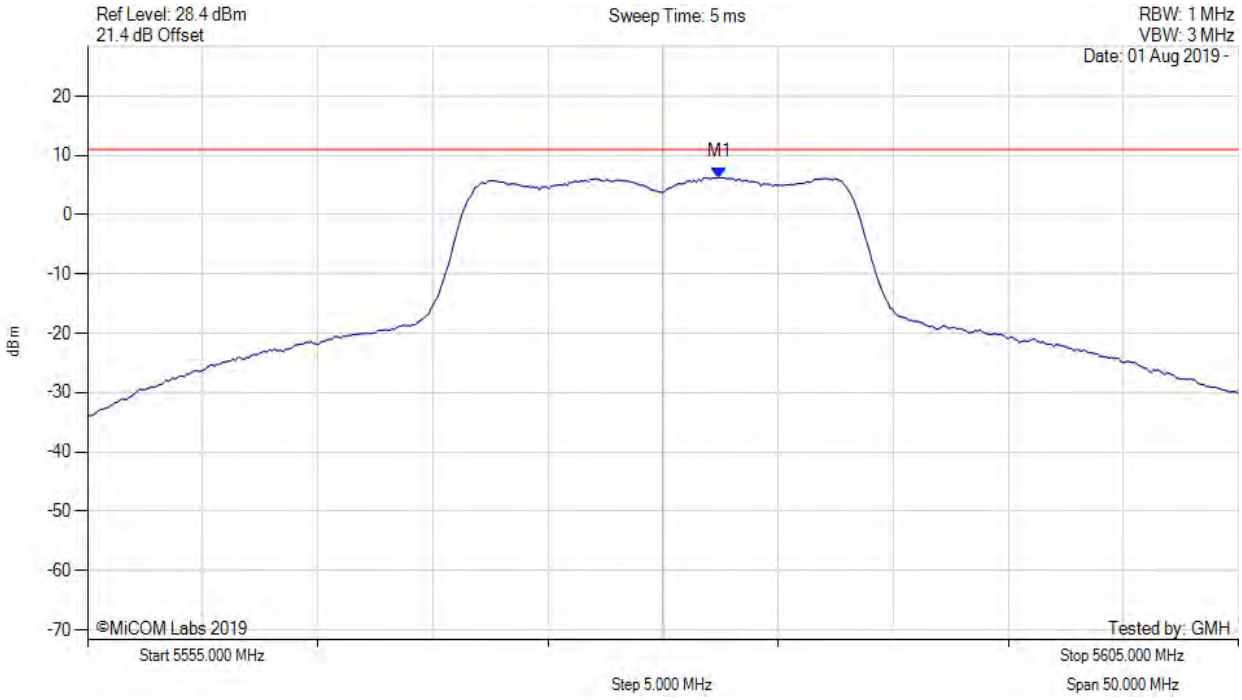



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5582.655 MHz : 3.826 dBm | Channel Frequency: 5580.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

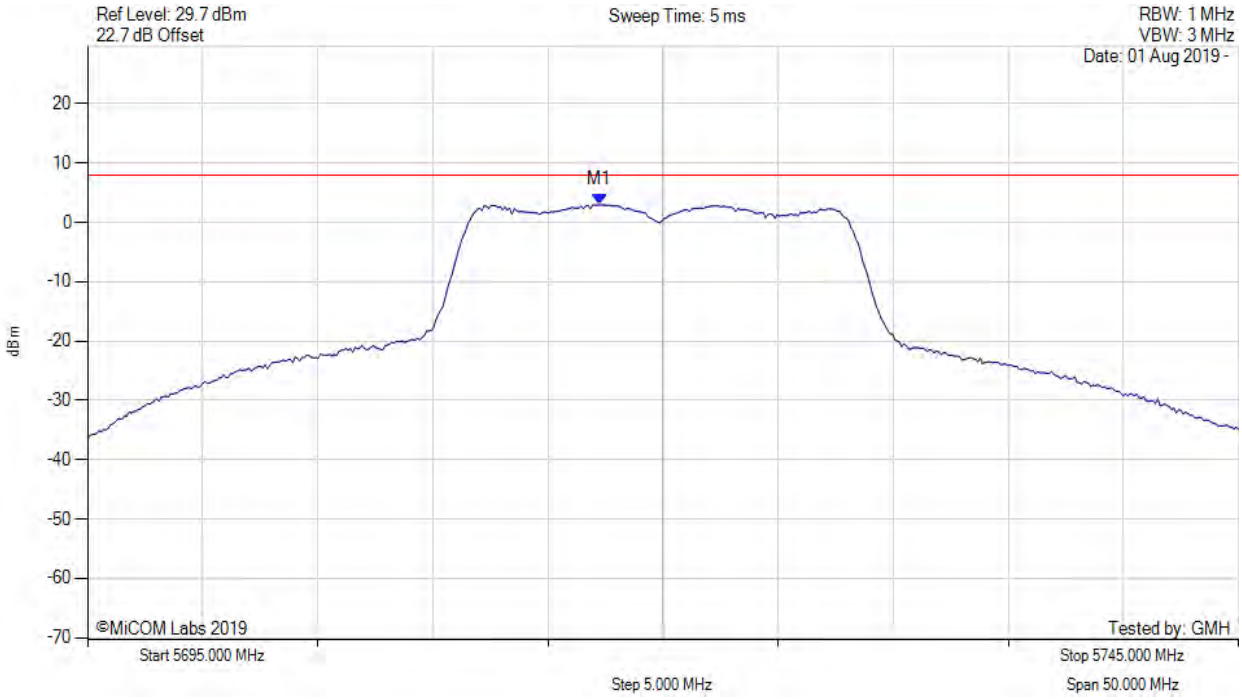



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5582.500 MHz : 6.275 dBm<br>M1 + DCCF : 5582.500 MHz : 6.363 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -4.6 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

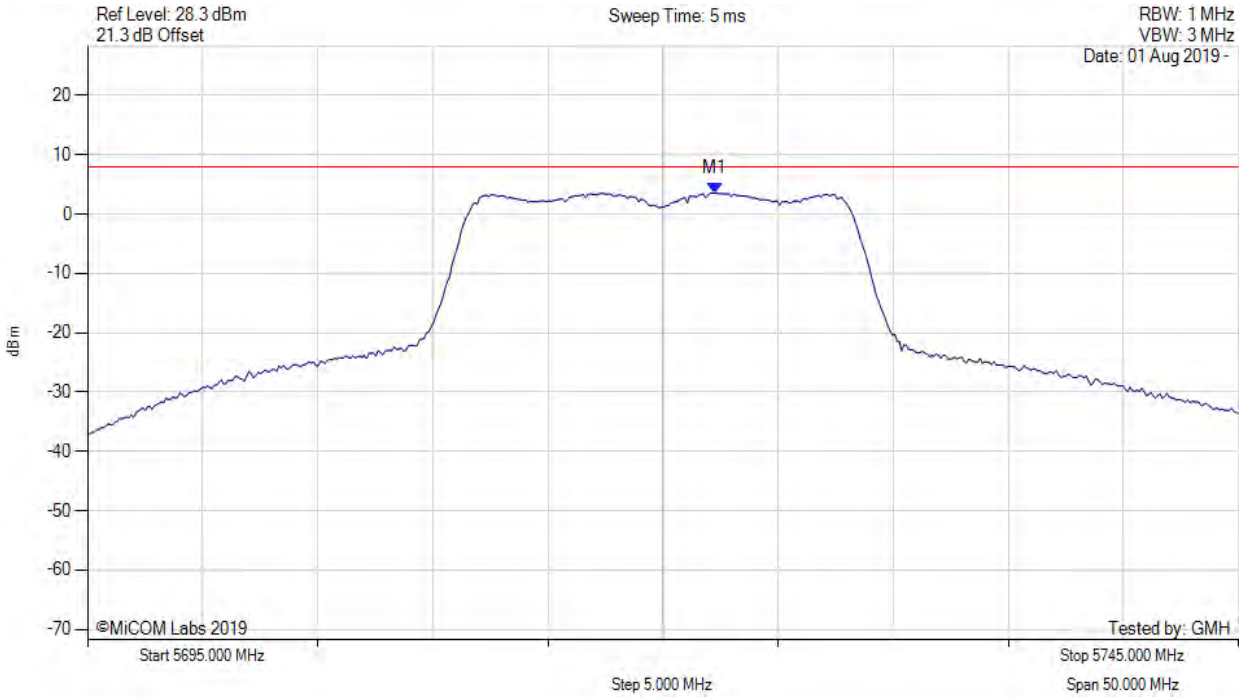



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5717.244 MHz : 2.985 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

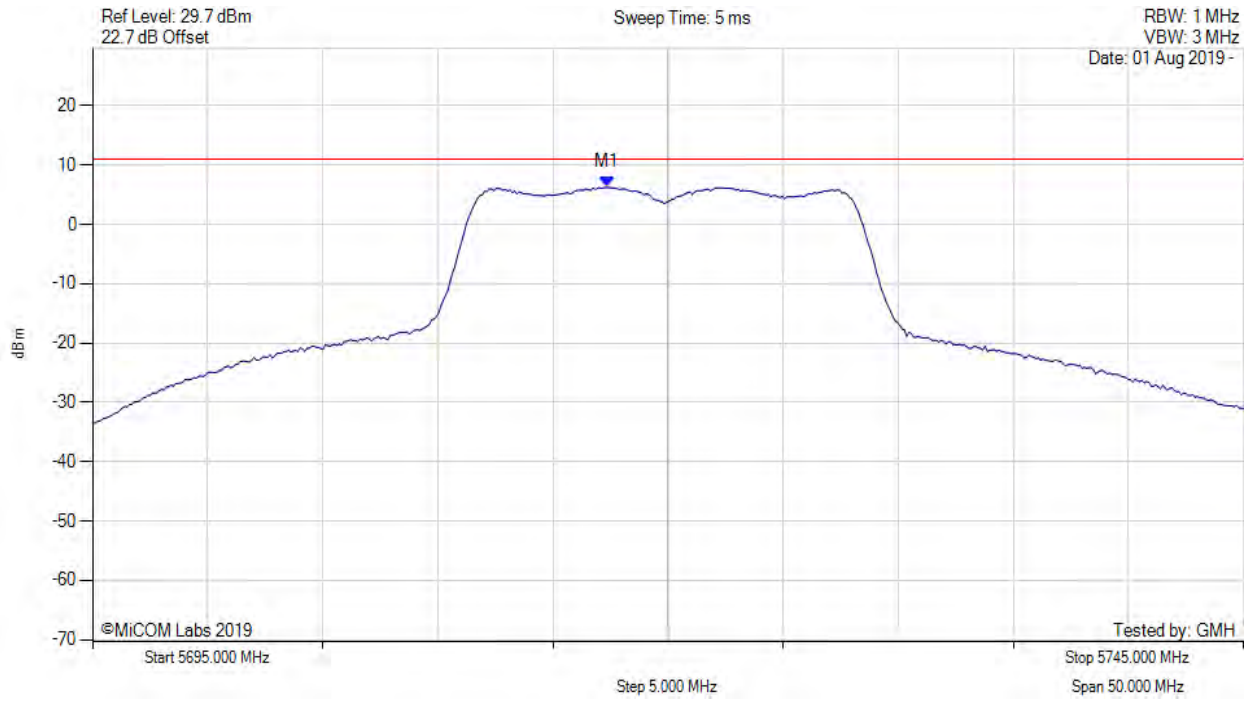



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5722.255 MHz : 3.580 dBm | Limit: ≤ 7.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

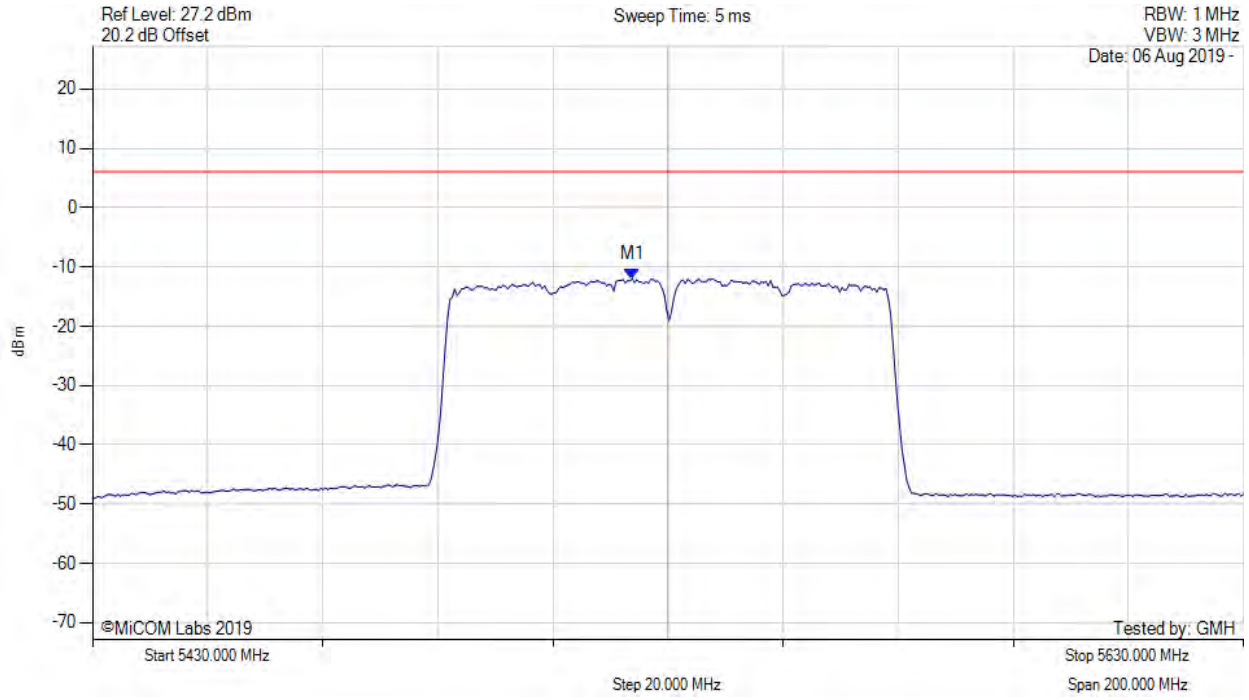



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5717.300 MHz : 6.262 dBm<br>M1 + DCCF : 5717.300 MHz : 6.350 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 11.0 dBm<br>Margin: -4.7 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

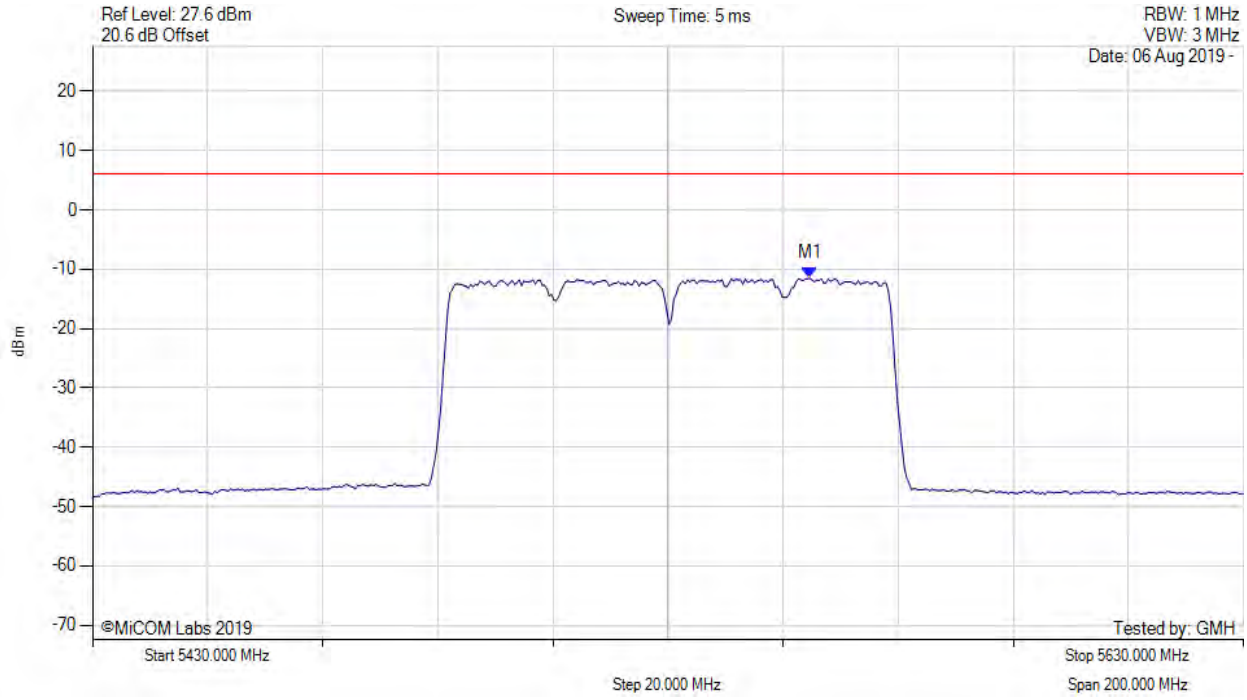



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5523.788 MHz : -12.007 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

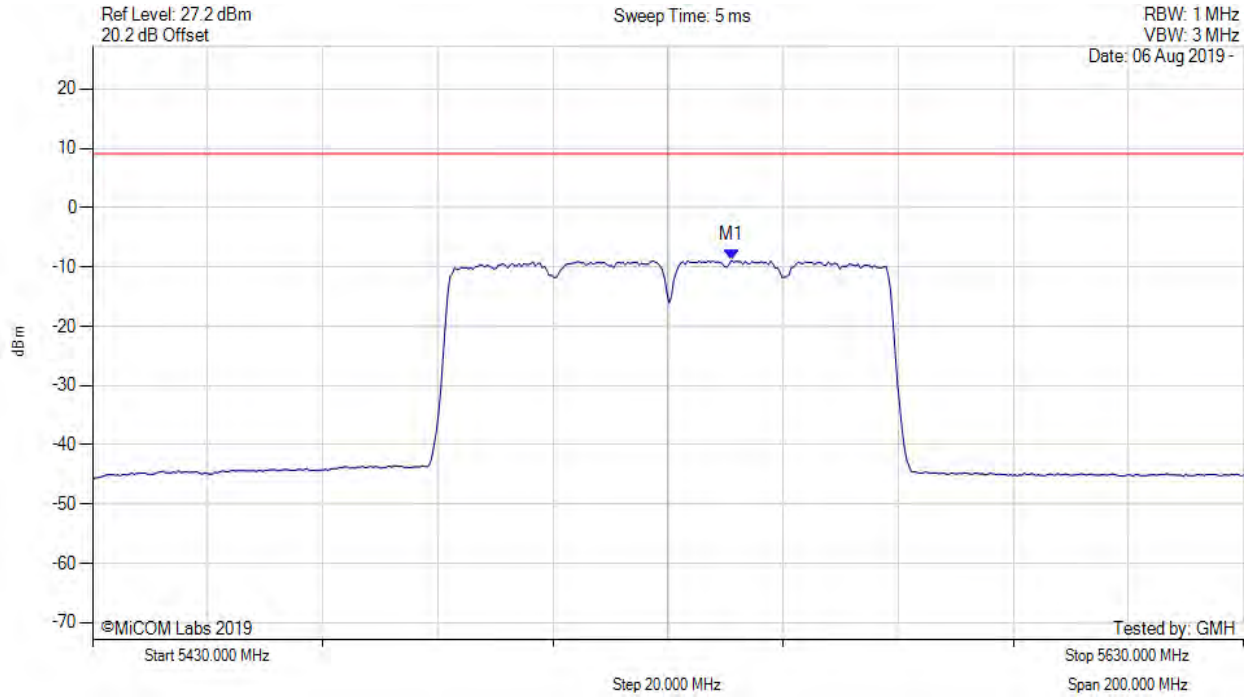



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5554.649 MHz : -11.498 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

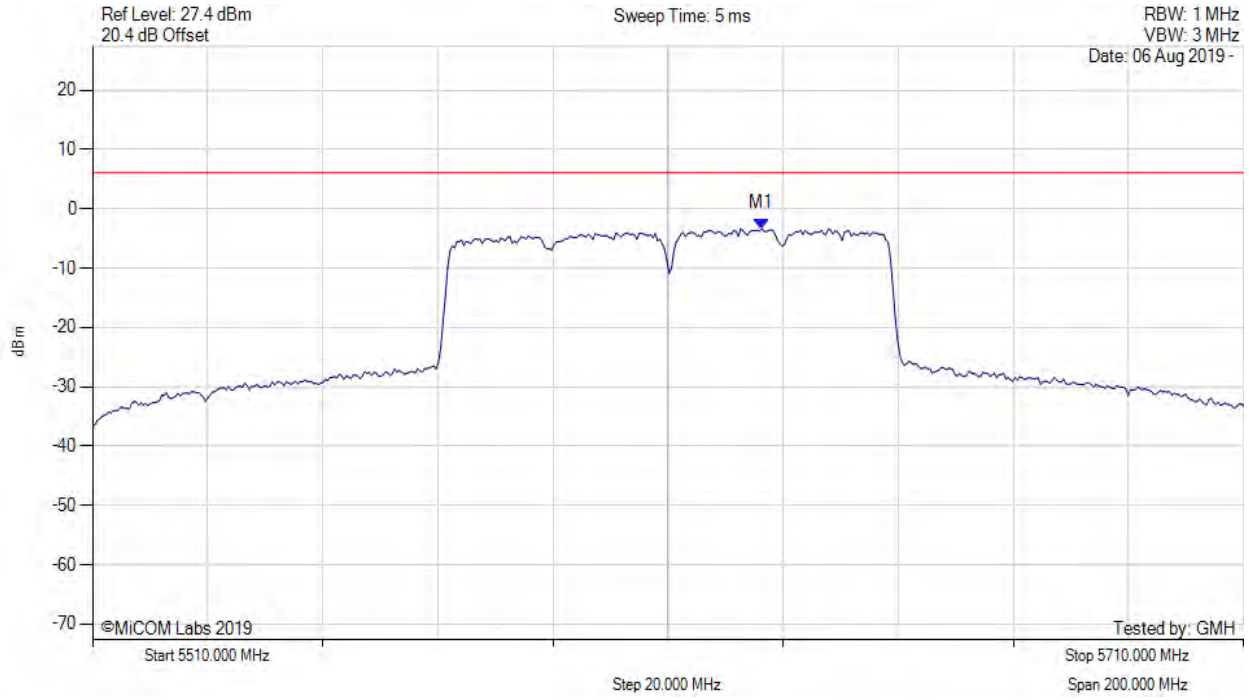



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5541.000 MHz : -8.913 dBm<br>M1 + DCCF : 5541.000 MHz : -8.358 dBm<br>Duty Cycle Correction Factor : +0.56 dB | Limit: ≤ 9.1 dBm<br>Margin: -17.5 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

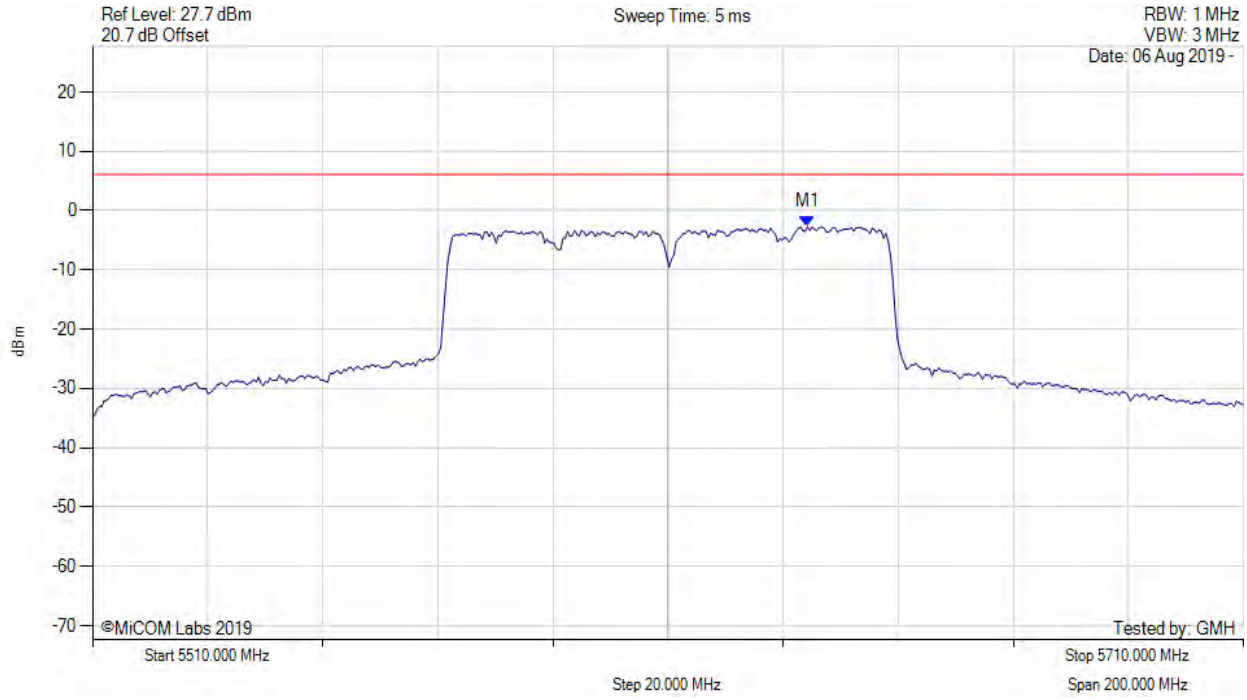



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5626.232 MHz : -3.371 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

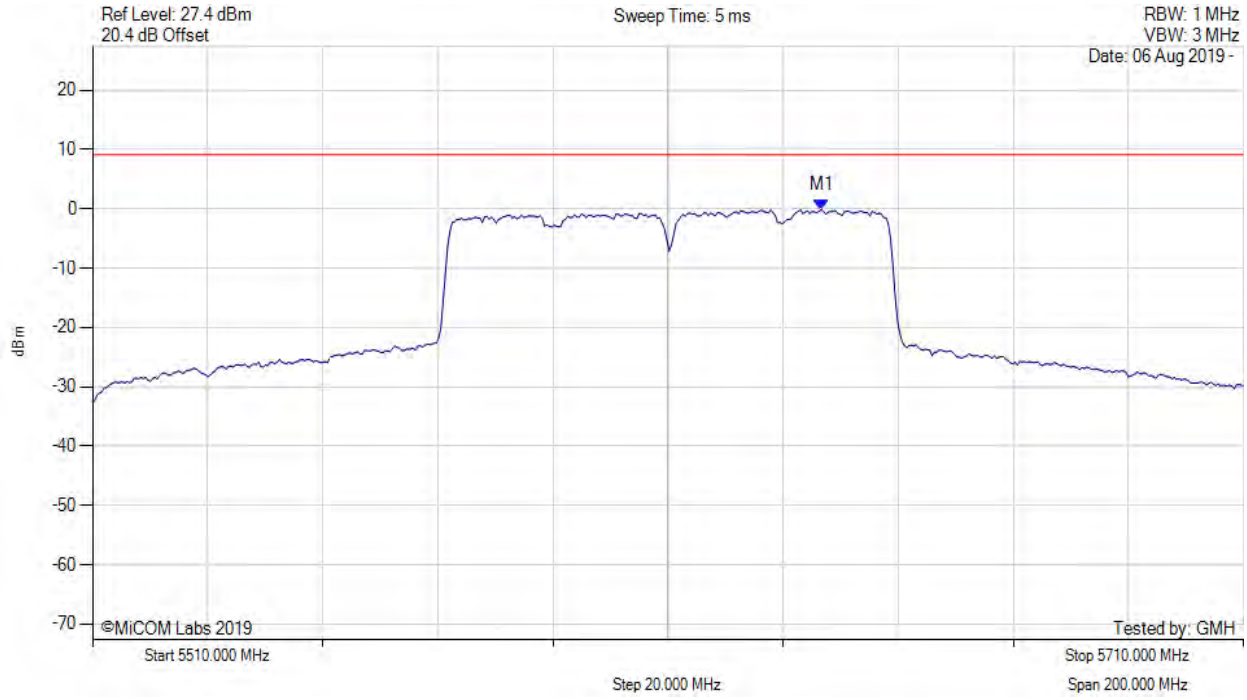



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5634.248 MHz : -2.744 dBm | Channel Frequency: 5610.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

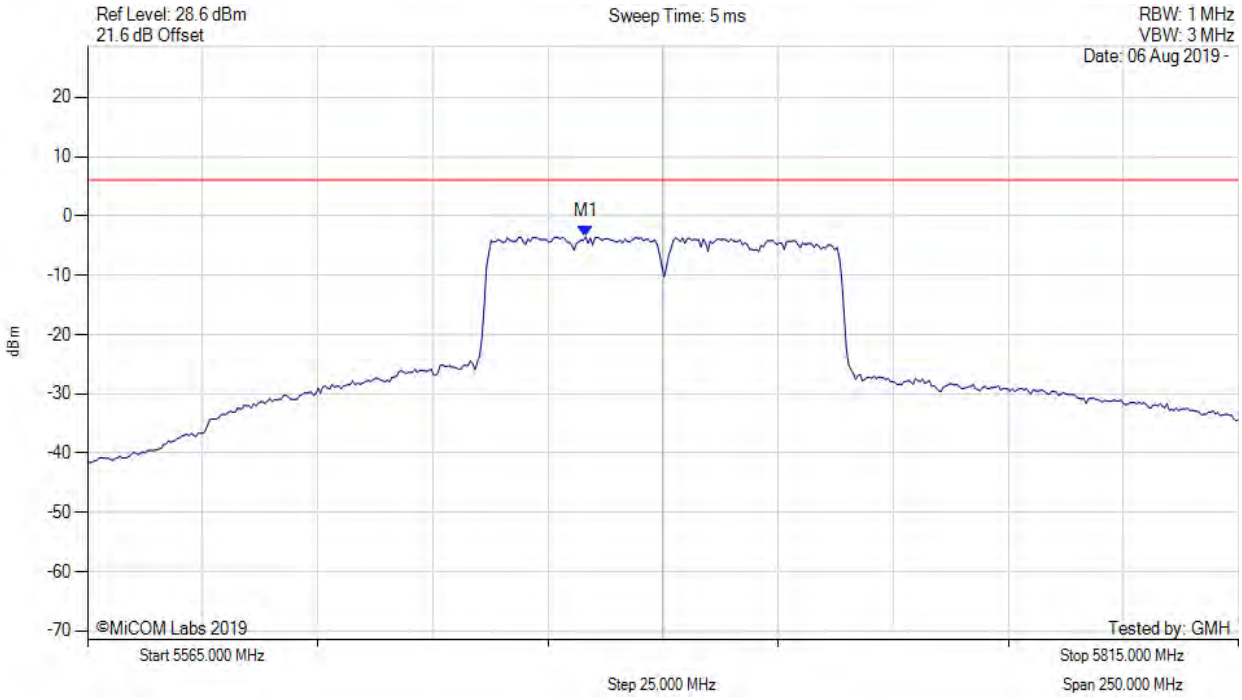



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5636.700 MHz : -0.168 dBm<br>M1 + DCCF : 5636.700 MHz : 0.387 dBm<br>Duty Cycle Correction Factor : +0.56 dB | Limit: ≤ 9.1 dBm<br>Margin: -8.7 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

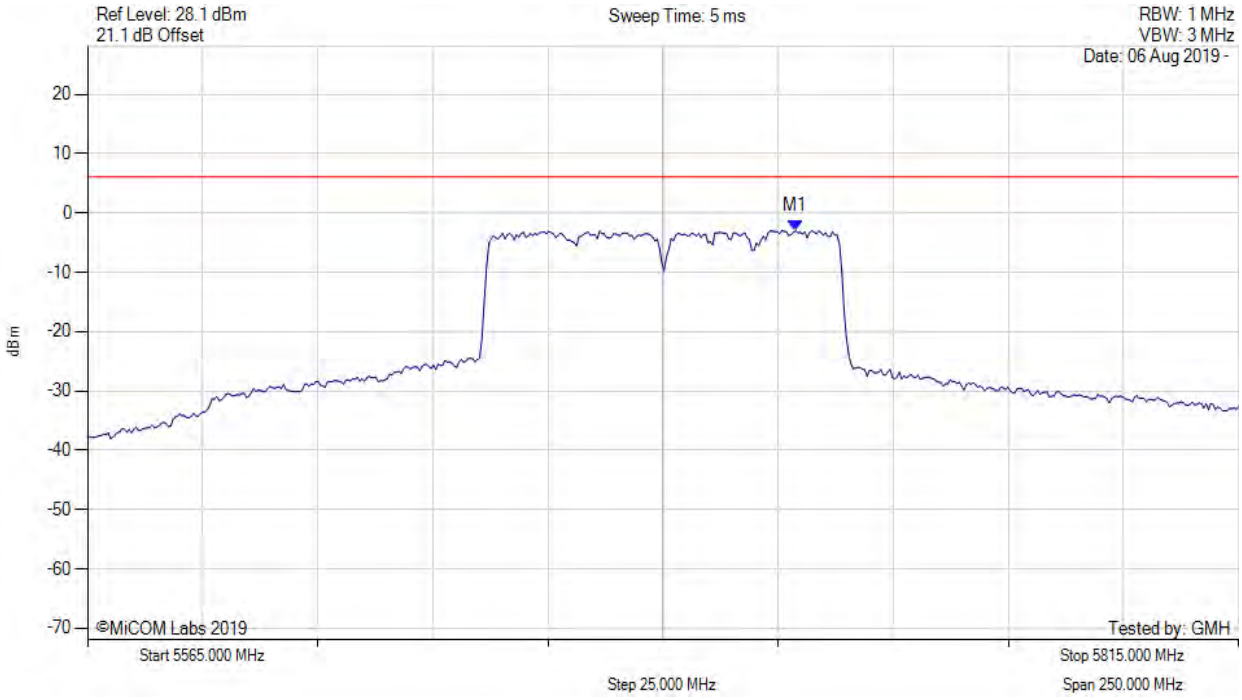



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5673.216 MHz : -3.542 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

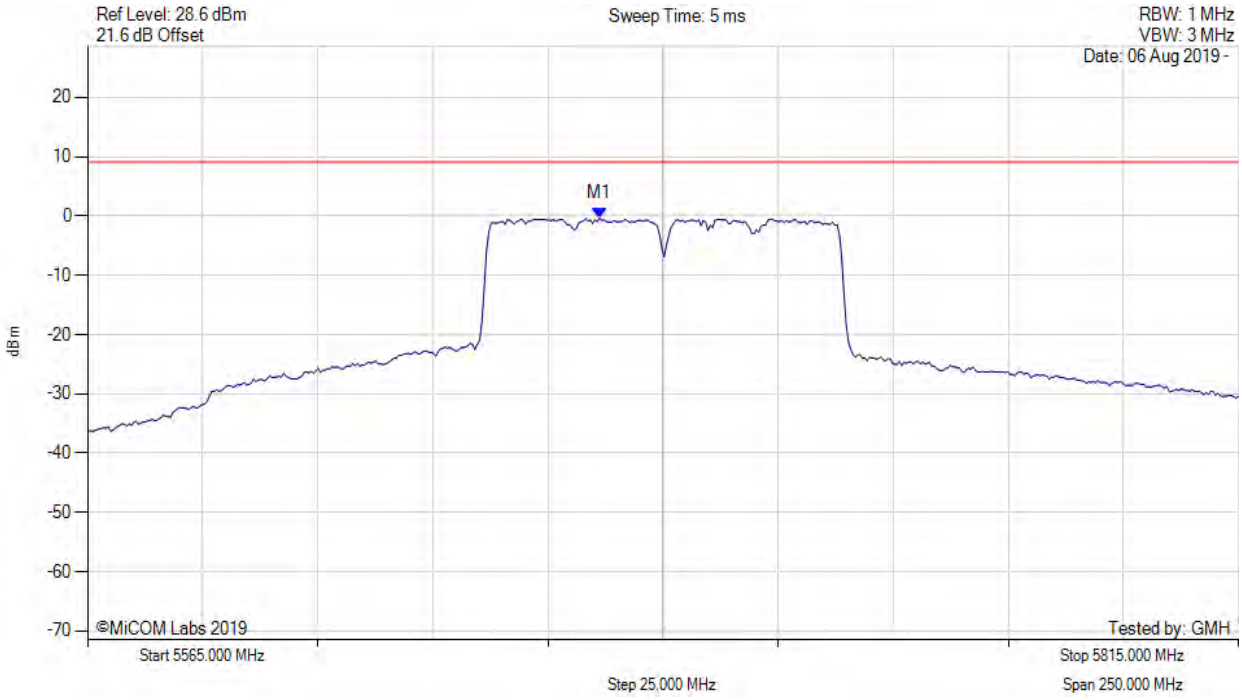



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5718.808 MHz : -3.018 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

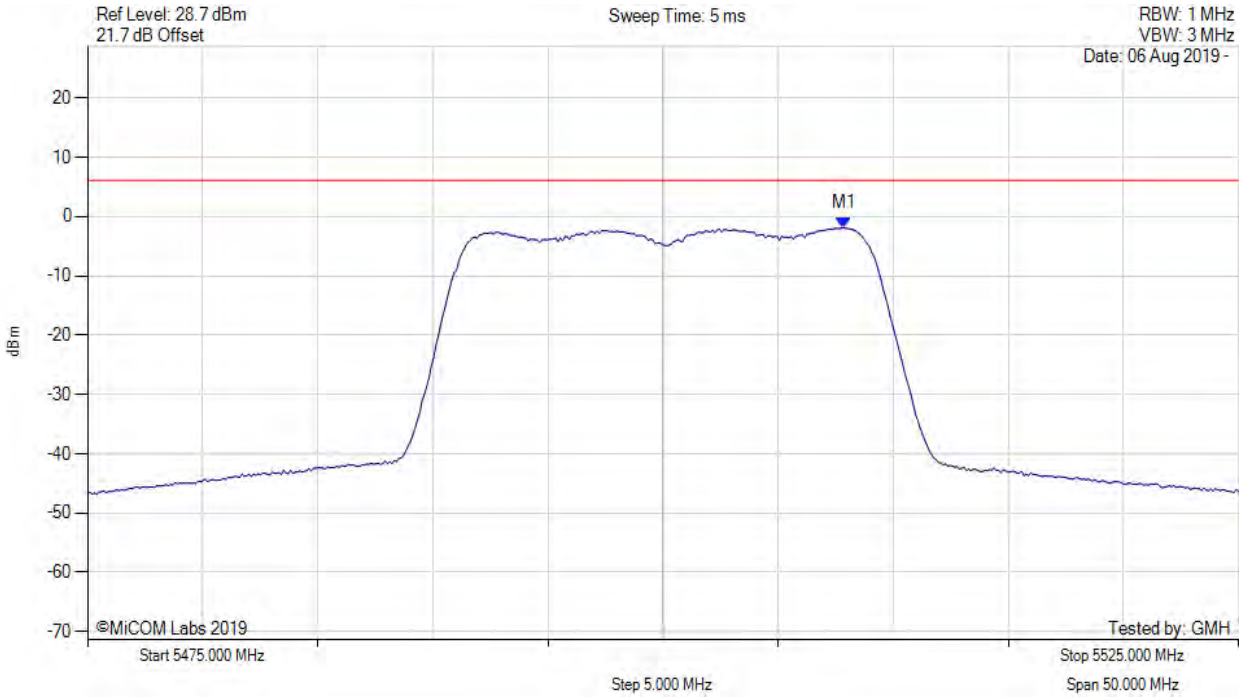



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5676.200 MHz : -0.389 dBm<br>M1 + DCCF : 5676.200 MHz : 0.166 dBm<br>Duty Cycle Correction Factor : +0.56 dB | Limit: ≤ 9.1 dBm<br>Margin: -8.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

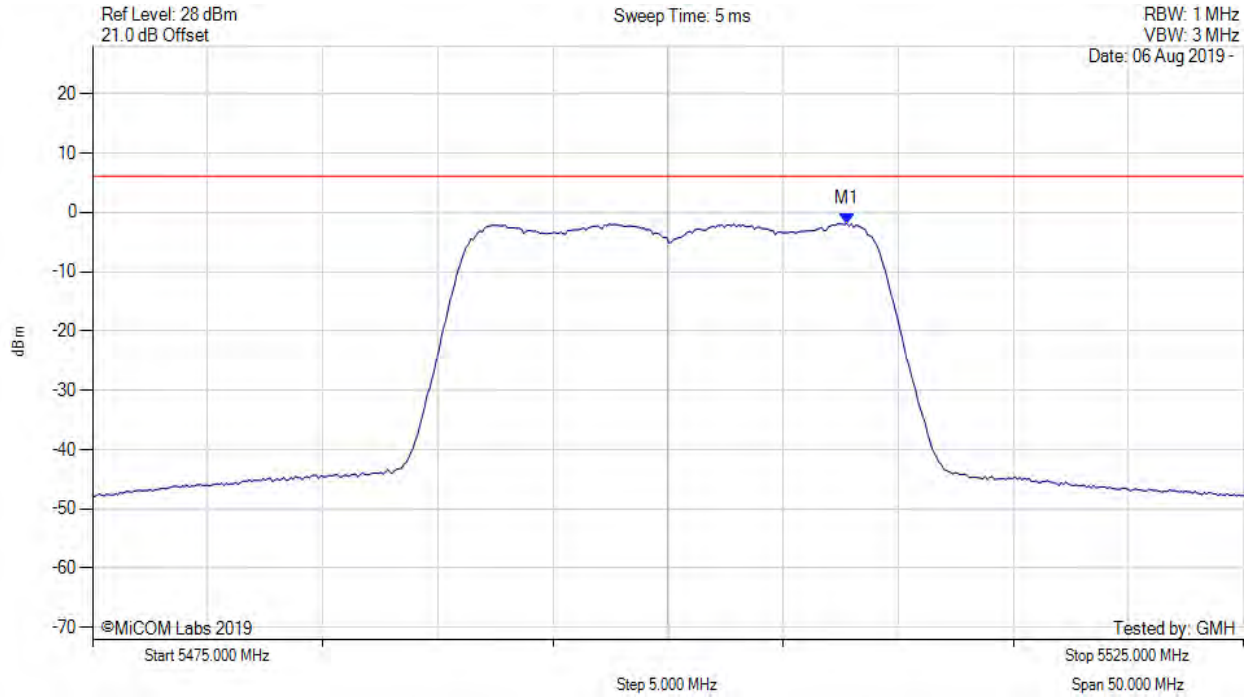



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5507.866 MHz : -1.916 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

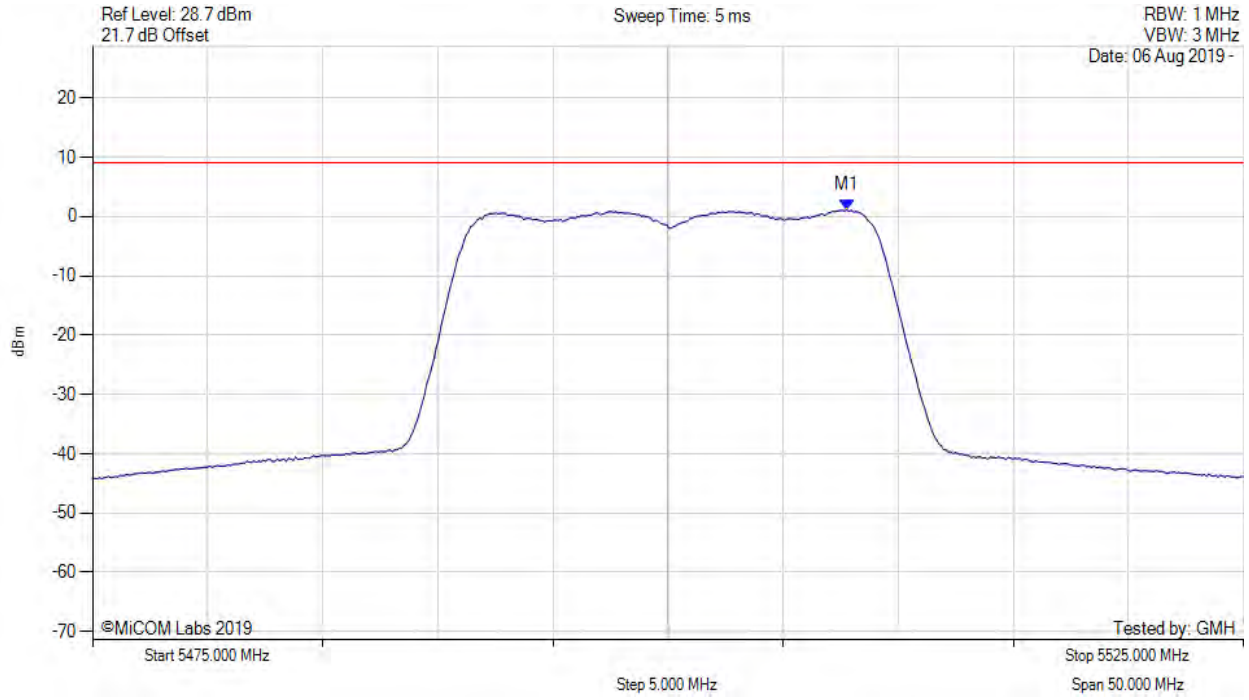



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5507.766 MHz : -1.870 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

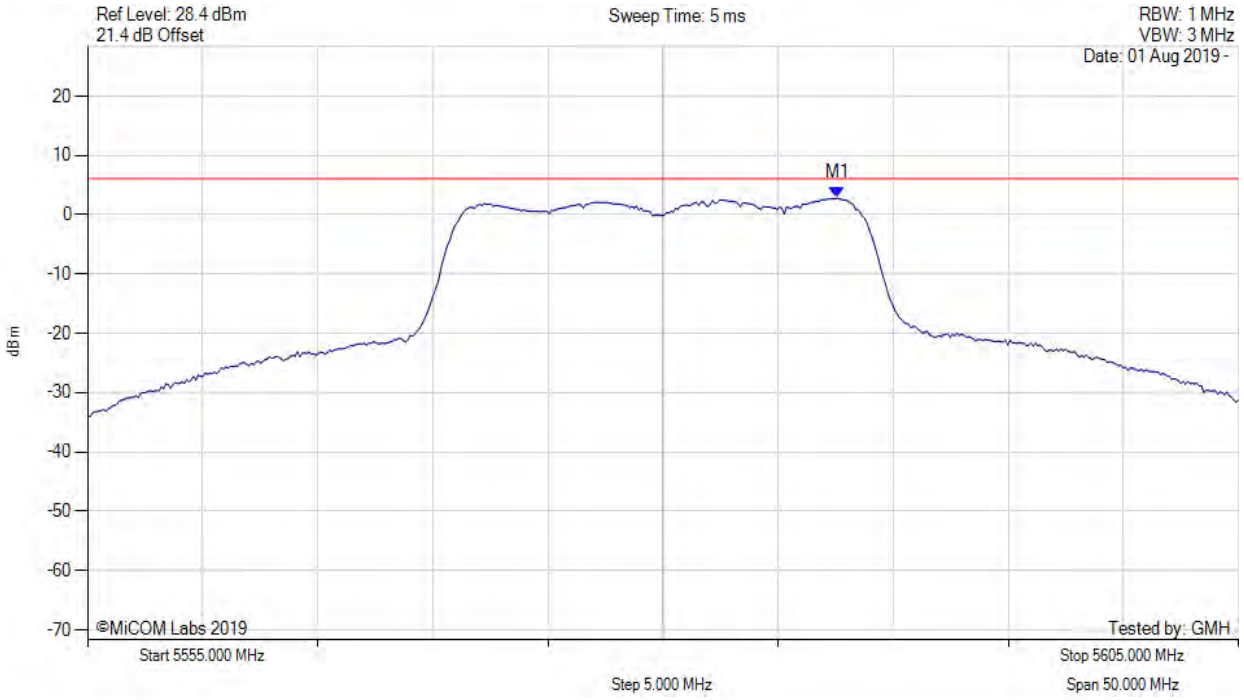



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5507.800 MHz : 1.112 dBm<br>M1 + DCCF : 5507.800 MHz : 1.200 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -7.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

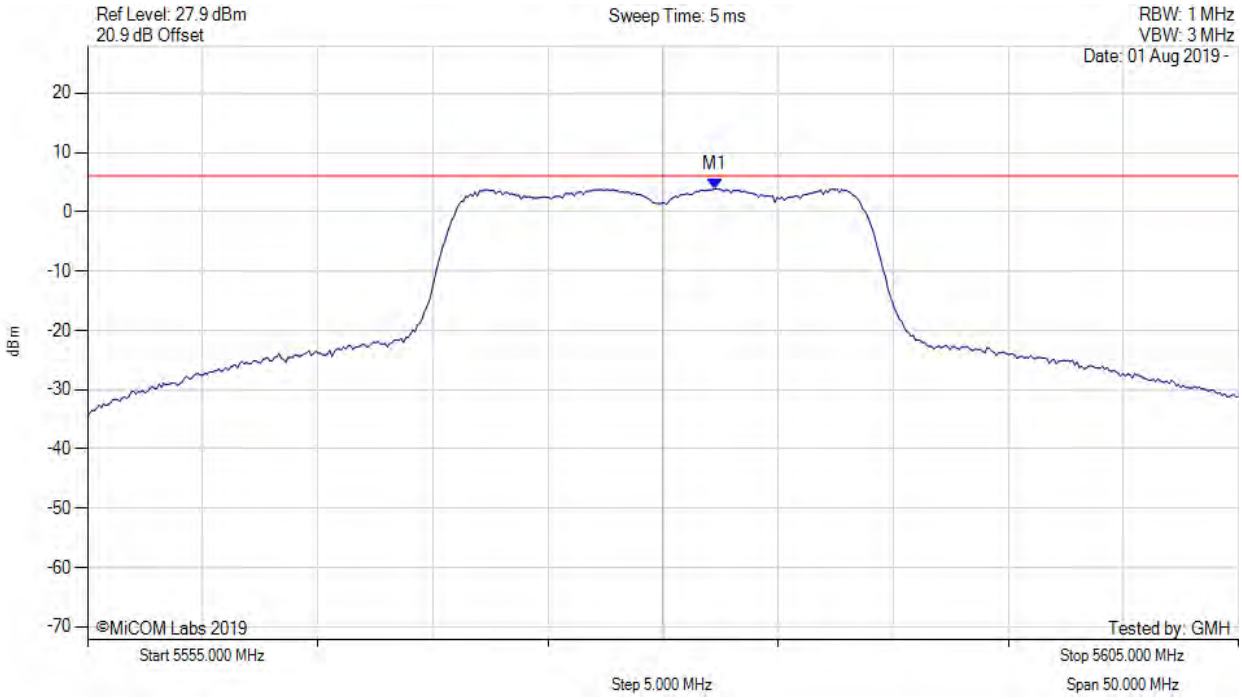



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5587.565 MHz : 2.798 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

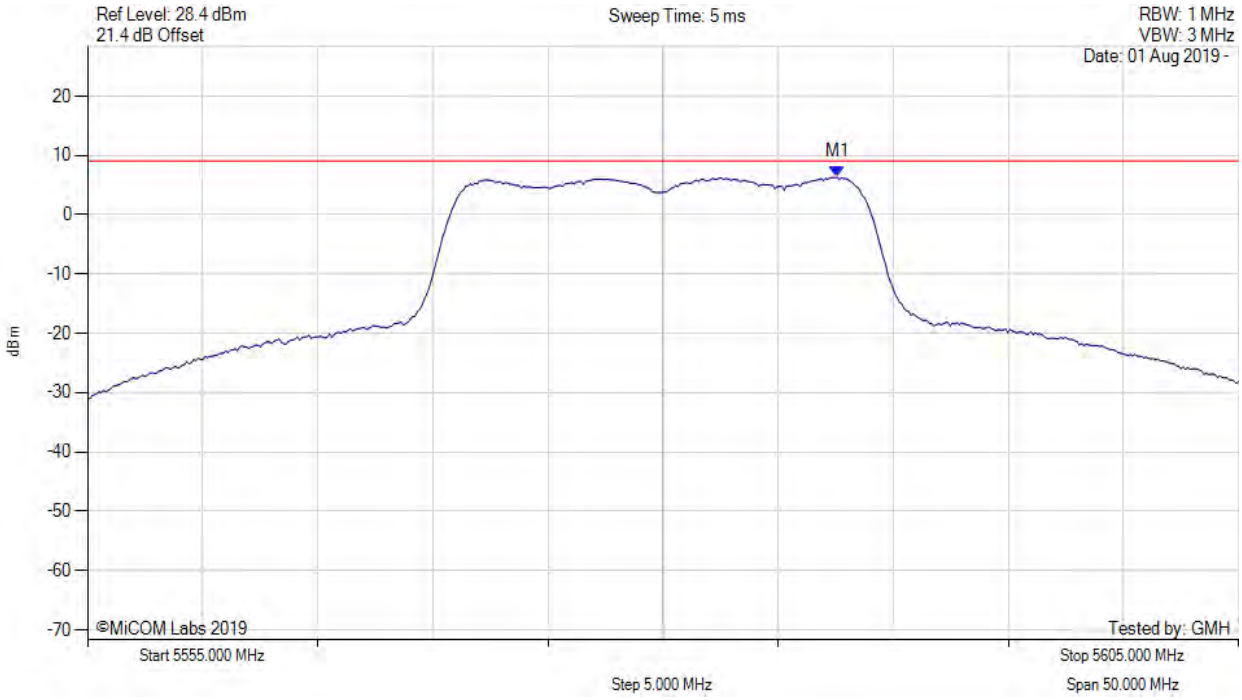



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5582.255 MHz : 3.883 dBm | Channel Frequency: 5580.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

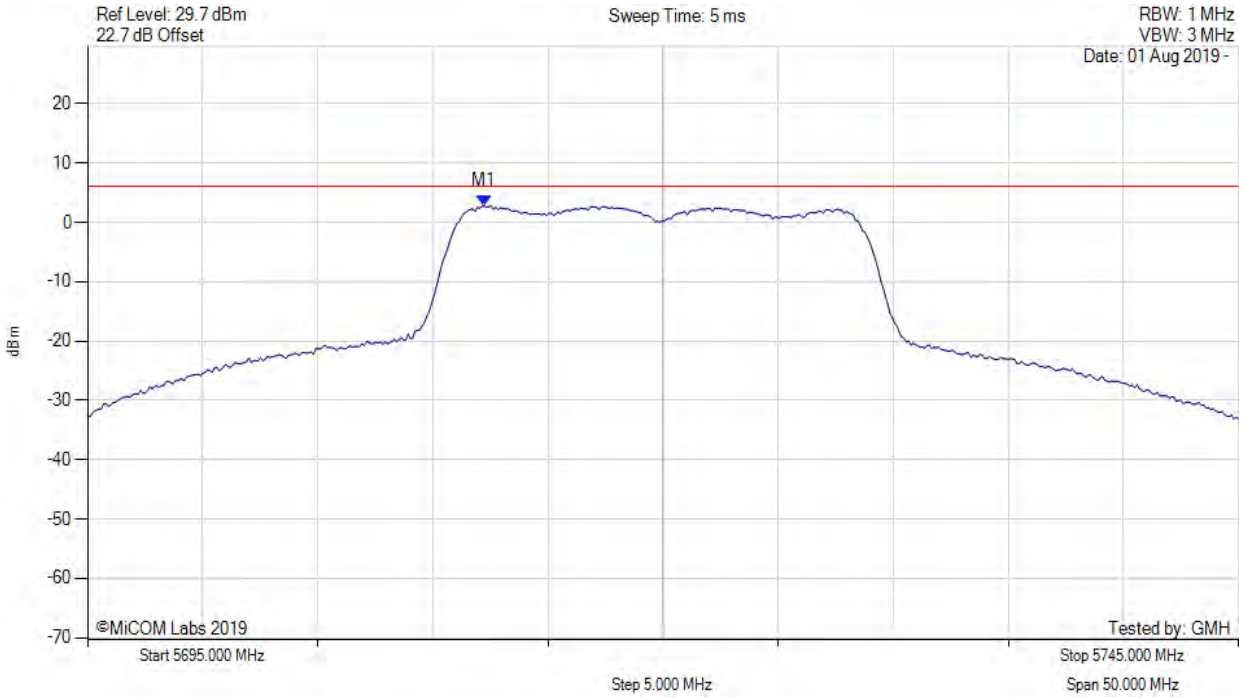



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5587.600 MHz : 6.353 dBm<br>M1 + DCCF : 5587.600 MHz : 6.441 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -2.7 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

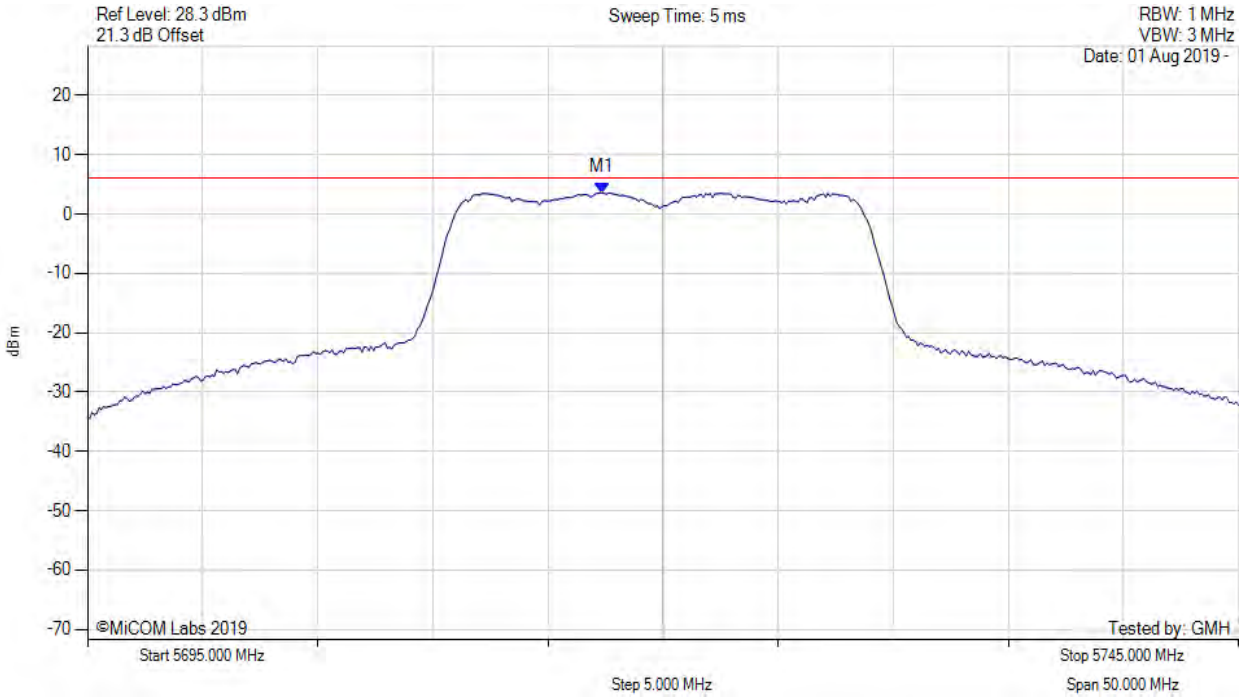



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5712.234 MHz : 2.807 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

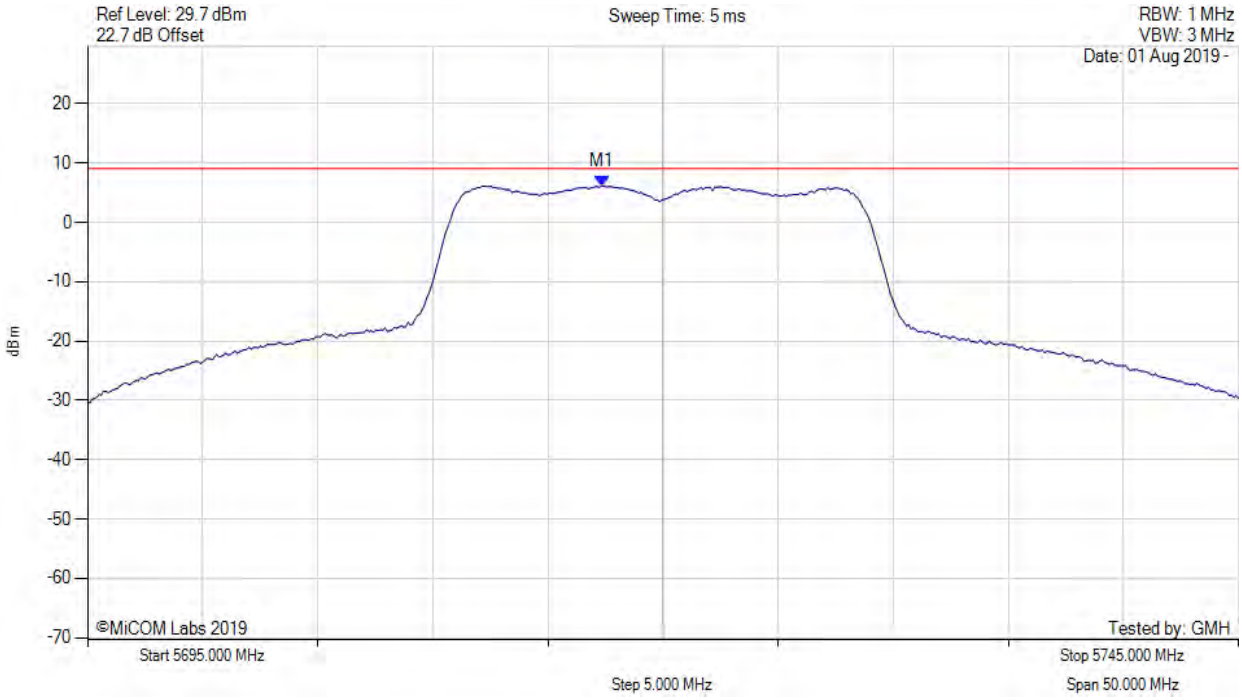



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5717.345 MHz : 3.605 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

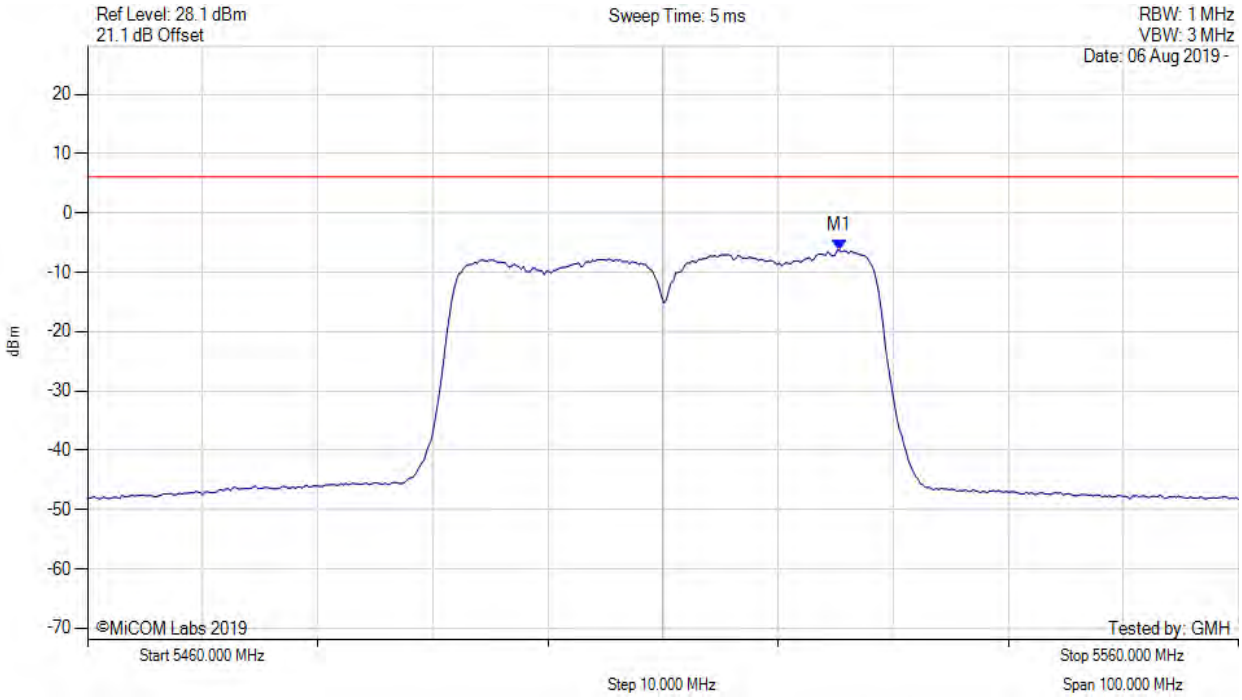



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5717.300 MHz : 6.163 dBm<br>M1 + DCCF : 5717.300 MHz : 6.251 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -2.9 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

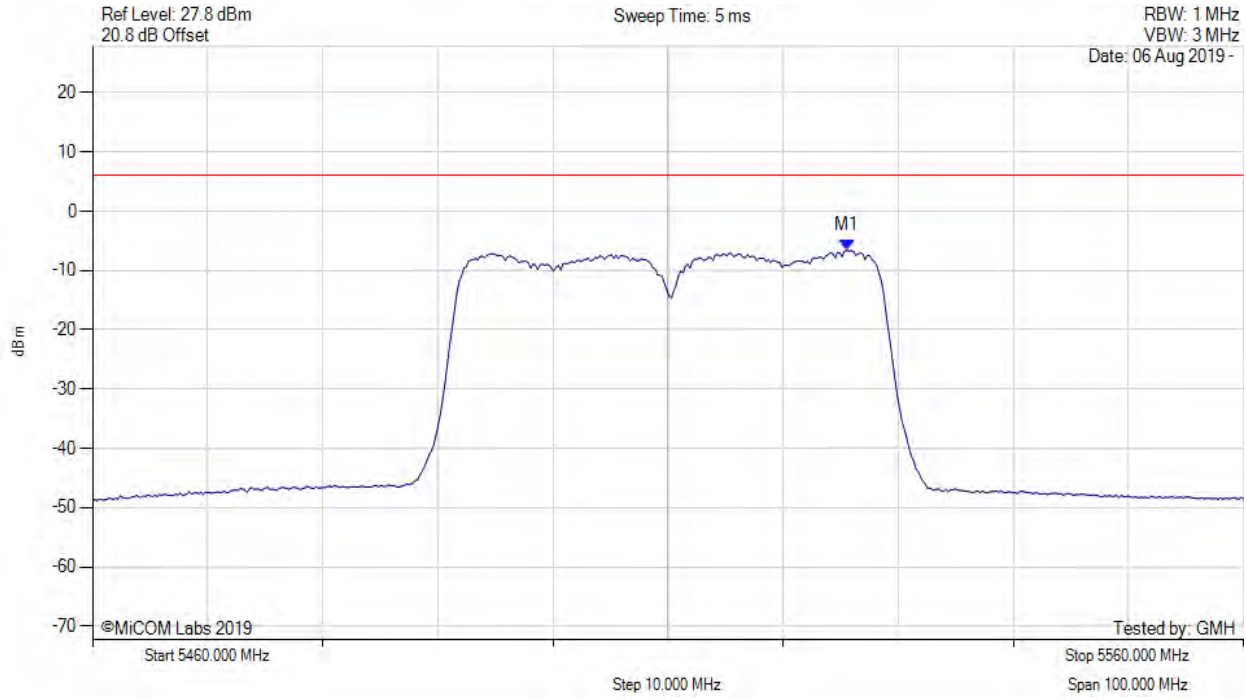



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5525.331 MHz : -6.294 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

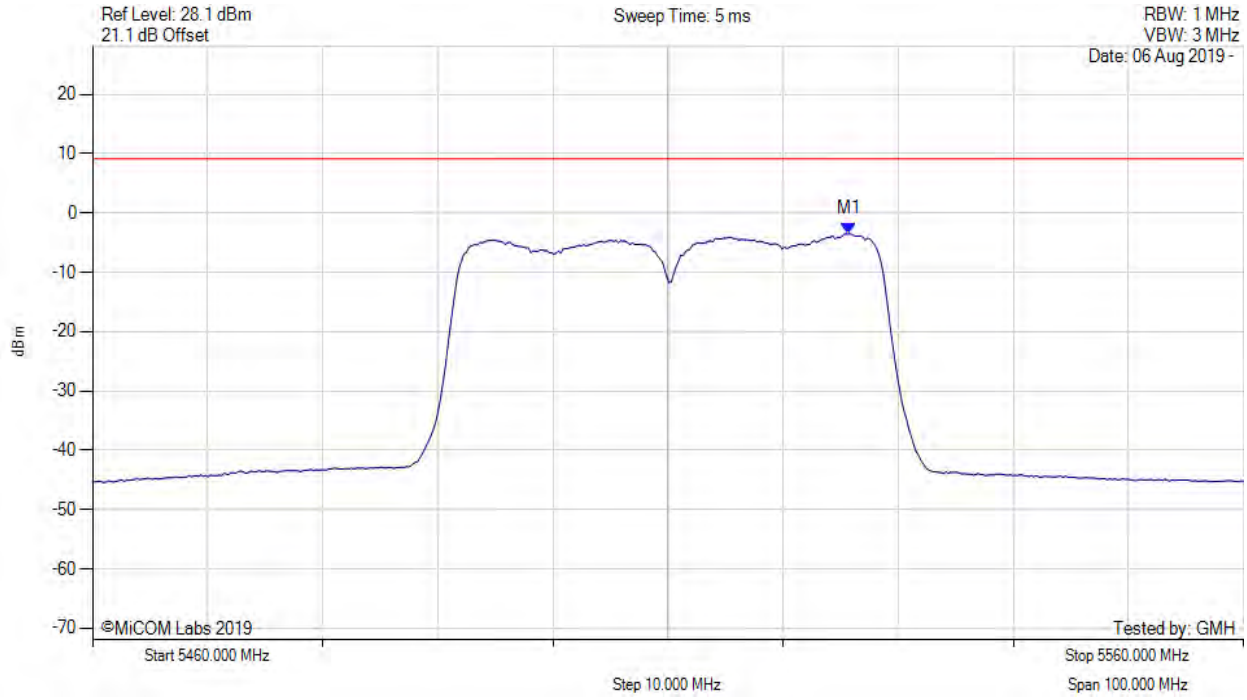



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5525.531 MHz : -6.593 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5510.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

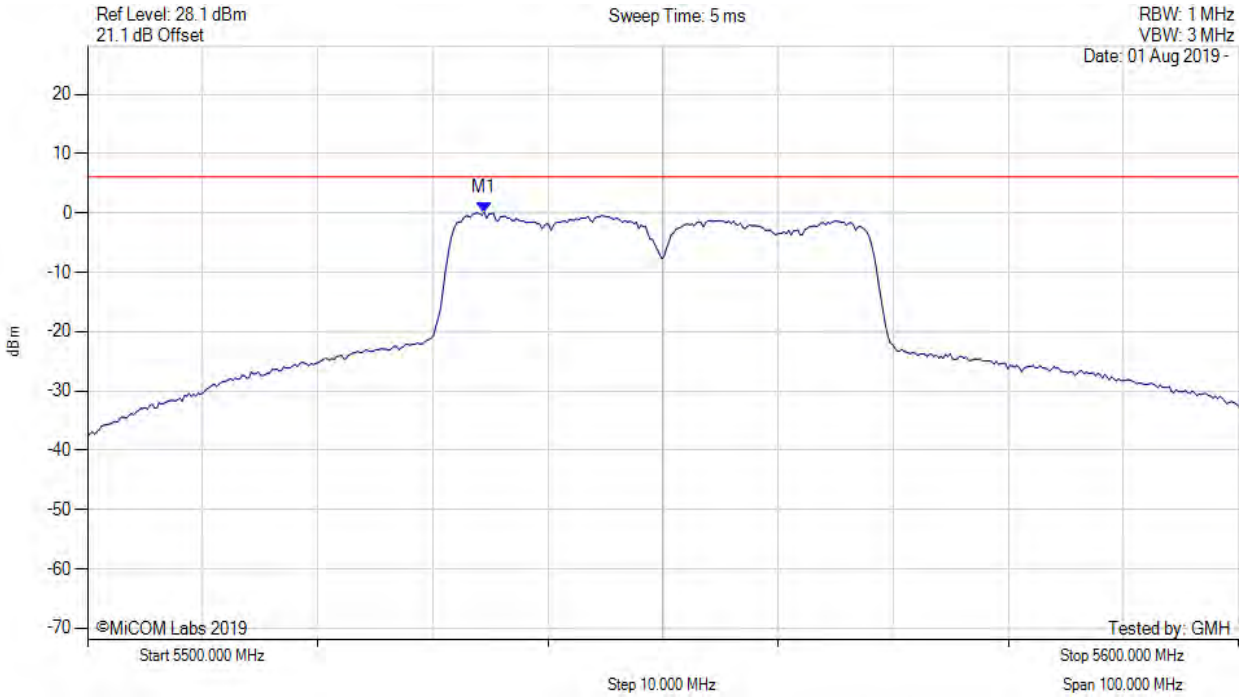



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5525.700 MHz : -3.504 dBm<br>M1 + DCCF : 5525.700 MHz : -3.416 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -12.5 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

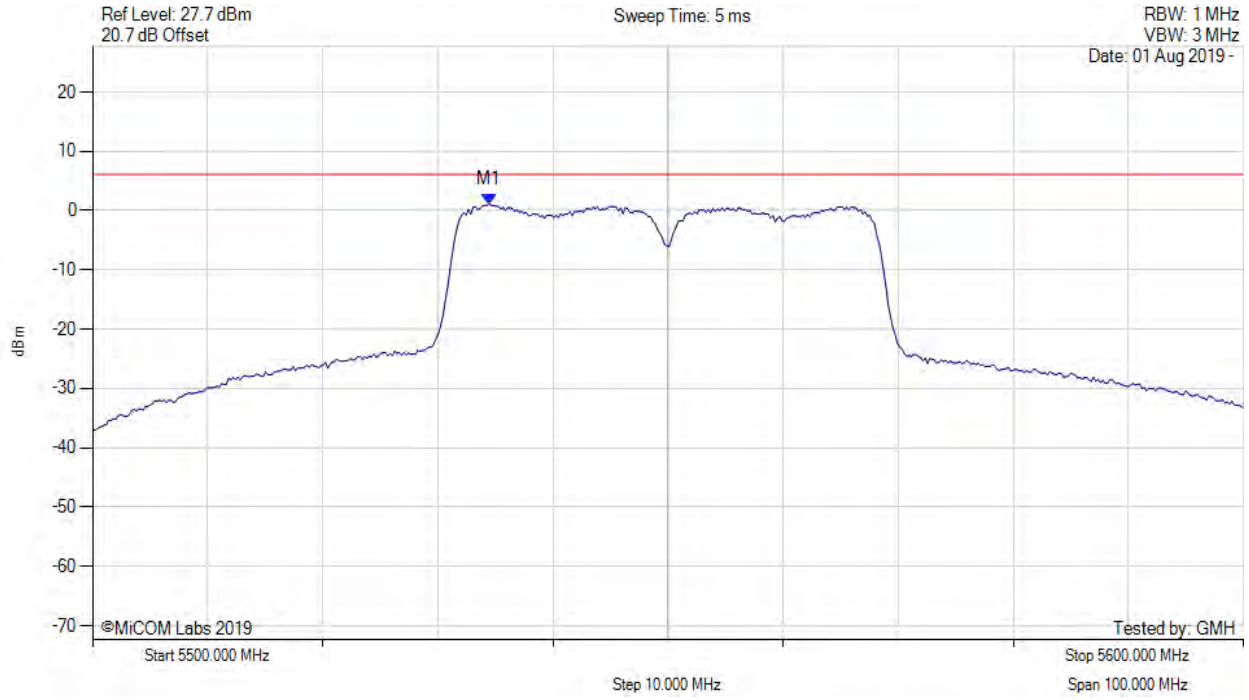



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5534.469 MHz : 0.125 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

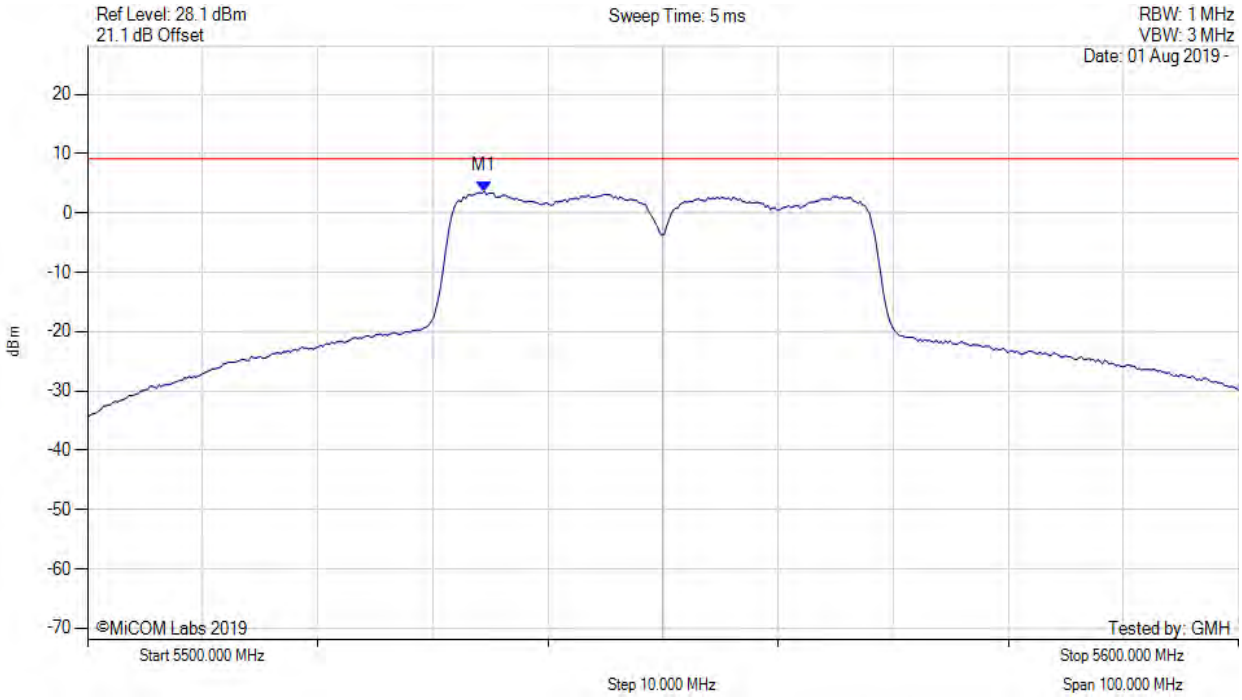



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5534.469 MHz : 1.076 dBm | Channel Frequency: 5550.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5550.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

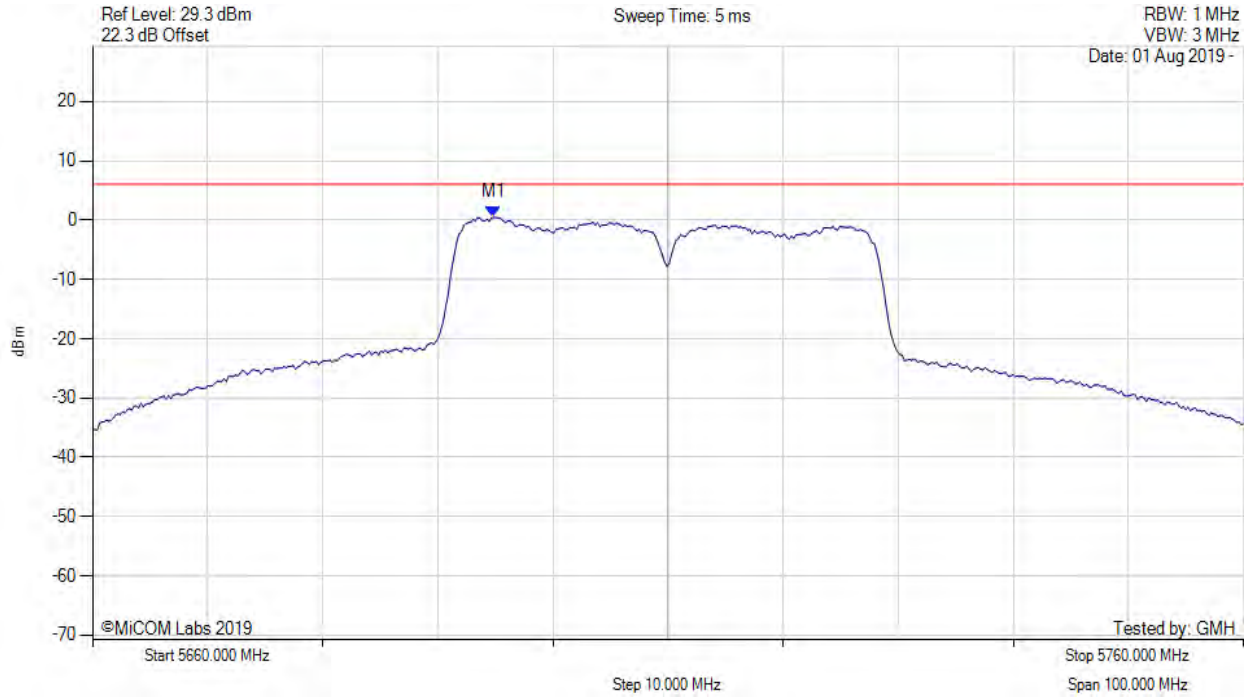



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5534.500 MHz : 3.637 dBm<br>M1 + DCCF : 5534.500 MHz : 3.725 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -5.4 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

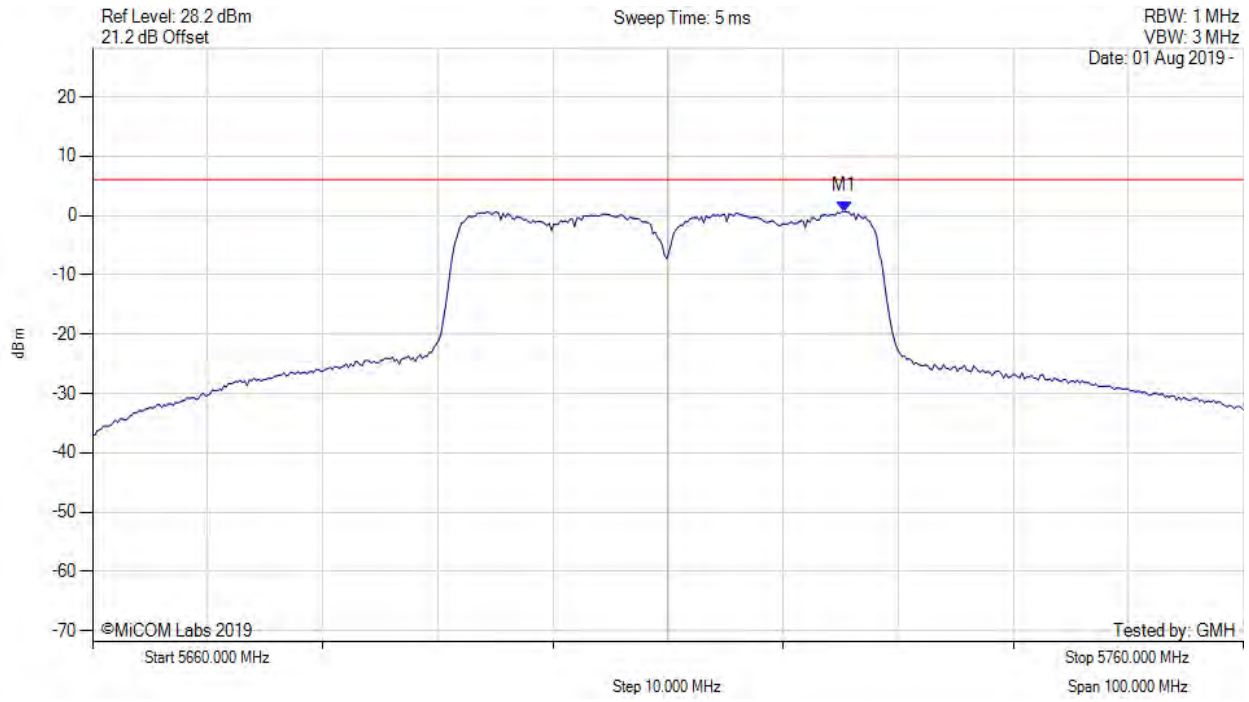



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5694.870 MHz : 0.482 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

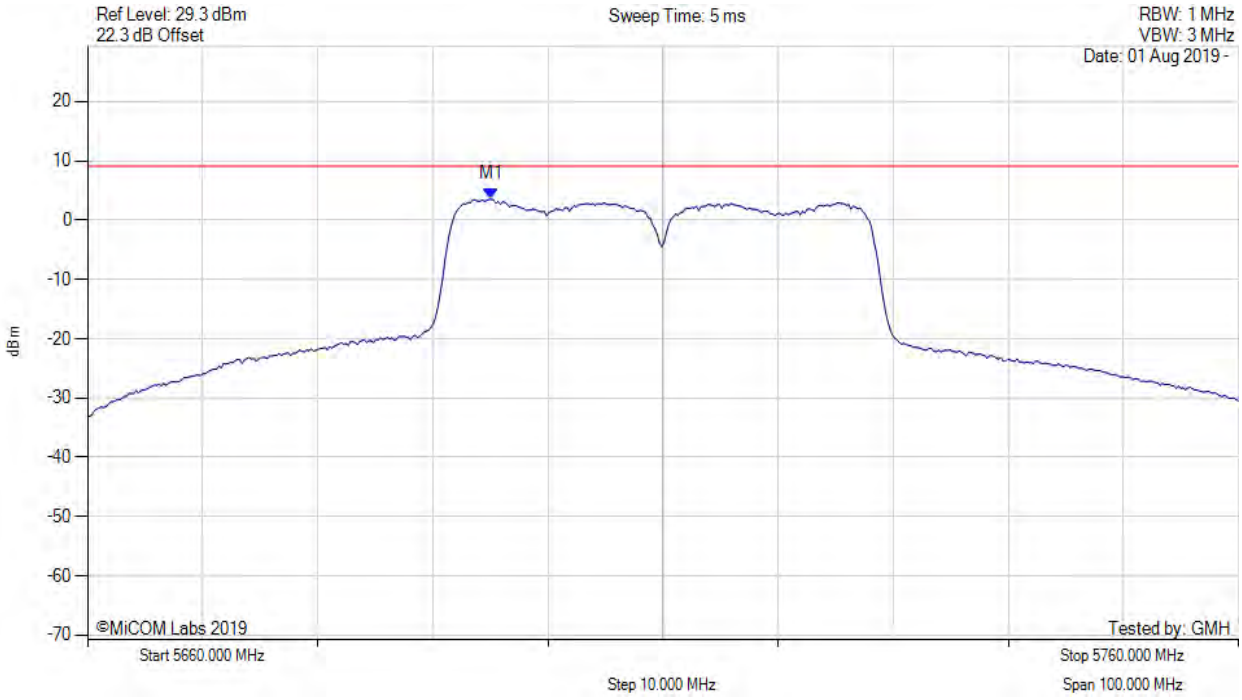



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5725.331 MHz : 0.705 dBm | Limit: ≤ 6.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5710.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

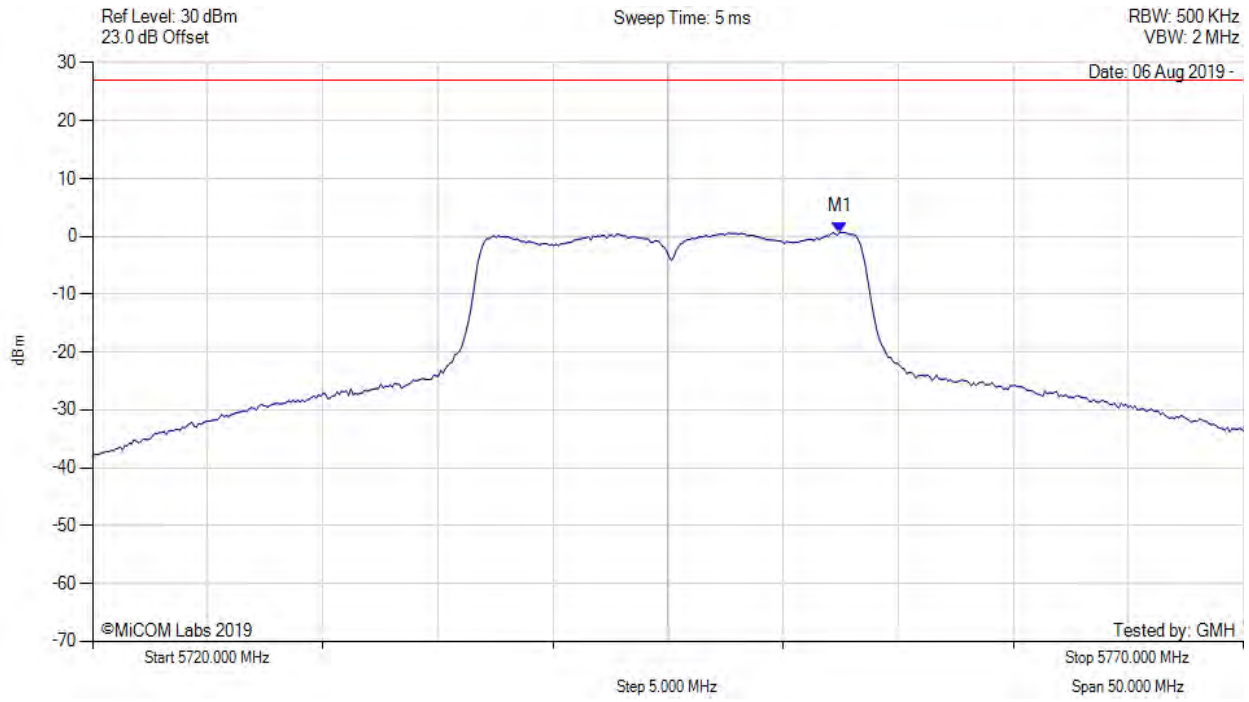



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5695.100 MHz : 3.533 dBm<br>M1 + DCCF : 5695.100 MHz : 3.621 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 9.1 dBm<br>Margin: -5.5 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

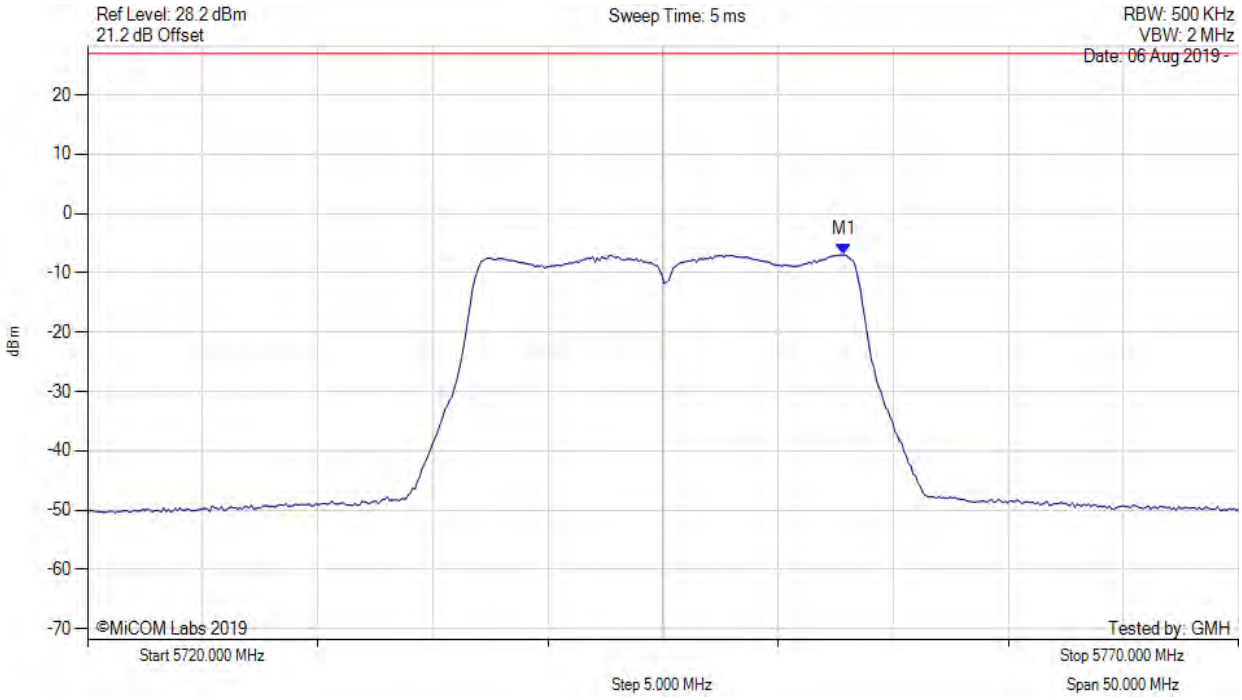



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.465 MHz : 0.743 dBm | Limit: ≤ 26.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

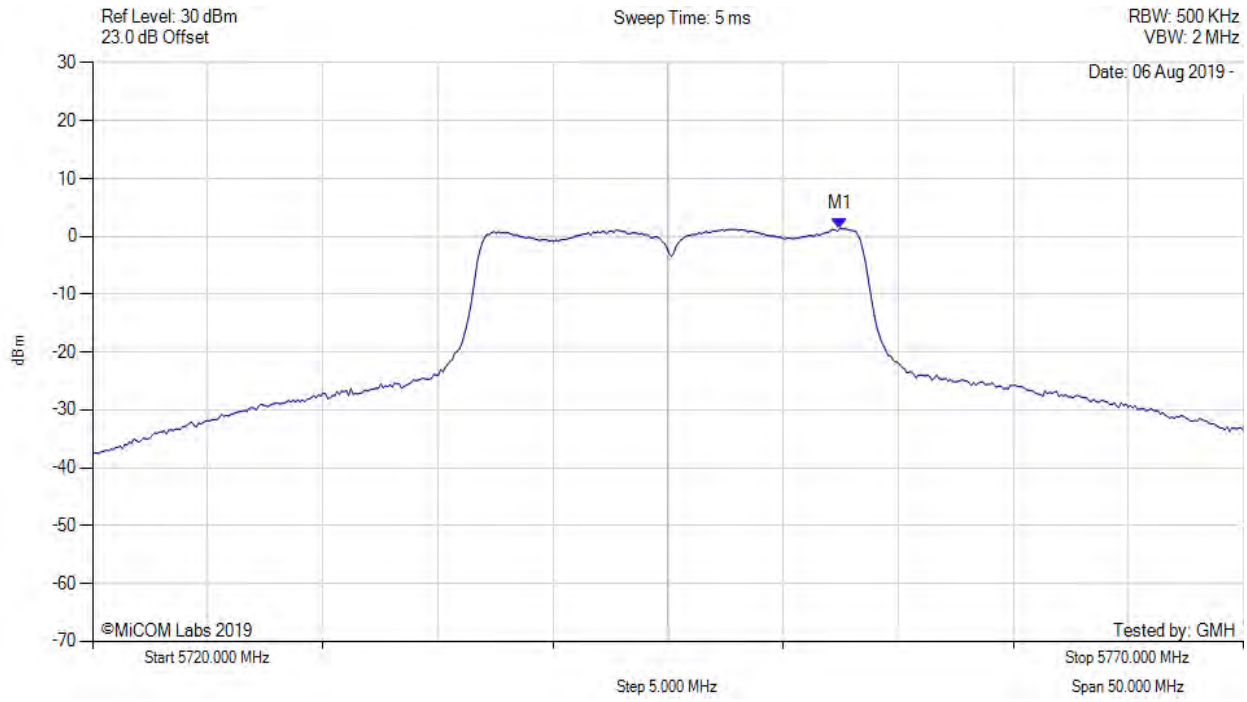



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.866 MHz : -6.955 dBm | Limit: ≤ 26.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

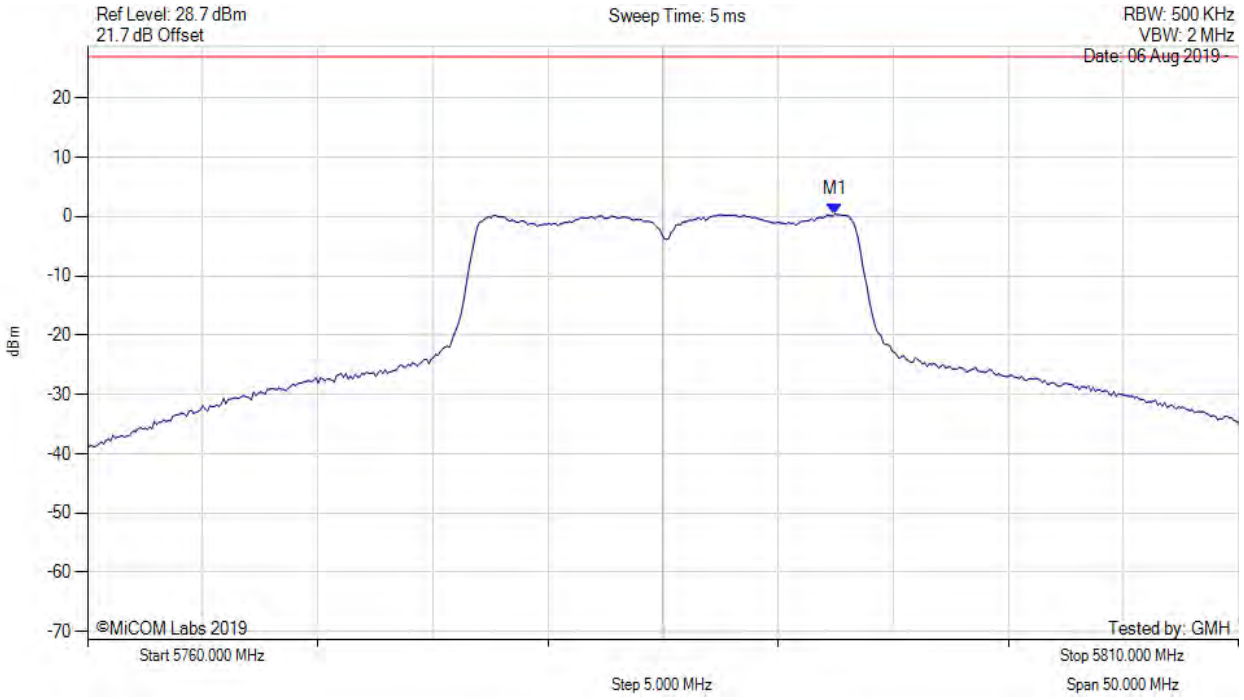



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.500 MHz : 1.400 dBm<br>M1 + DCCF : 5752.500 MHz : 1.488 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 30.0 dBm<br>Margin: -28.5 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

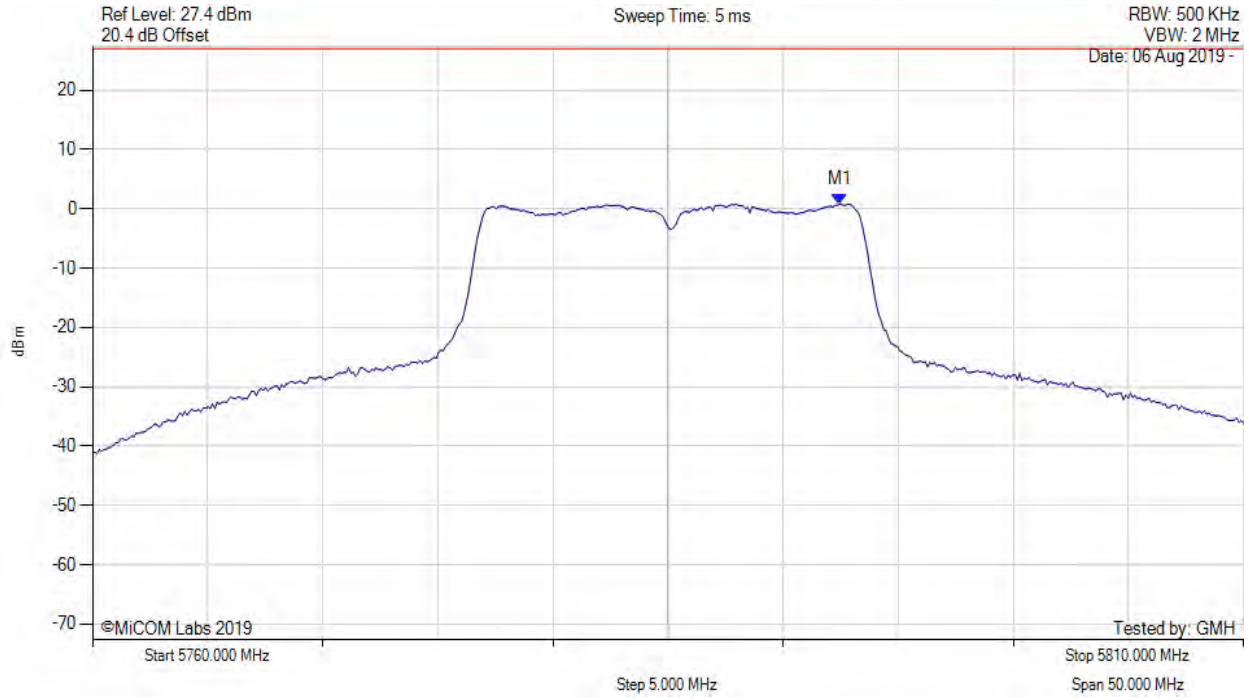



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.465 MHz : 0.404 dBm | Limit: ≤ 26.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

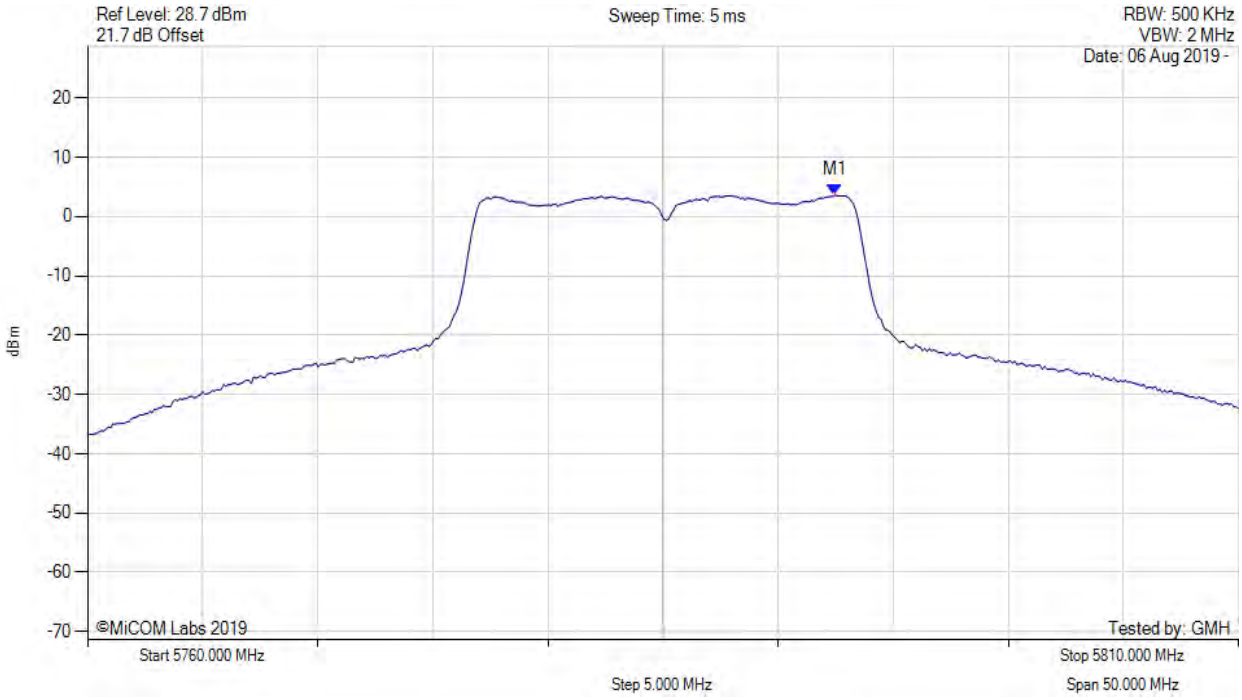



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.465 MHz : 0.811 dBm | Channel Frequency: 5785.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

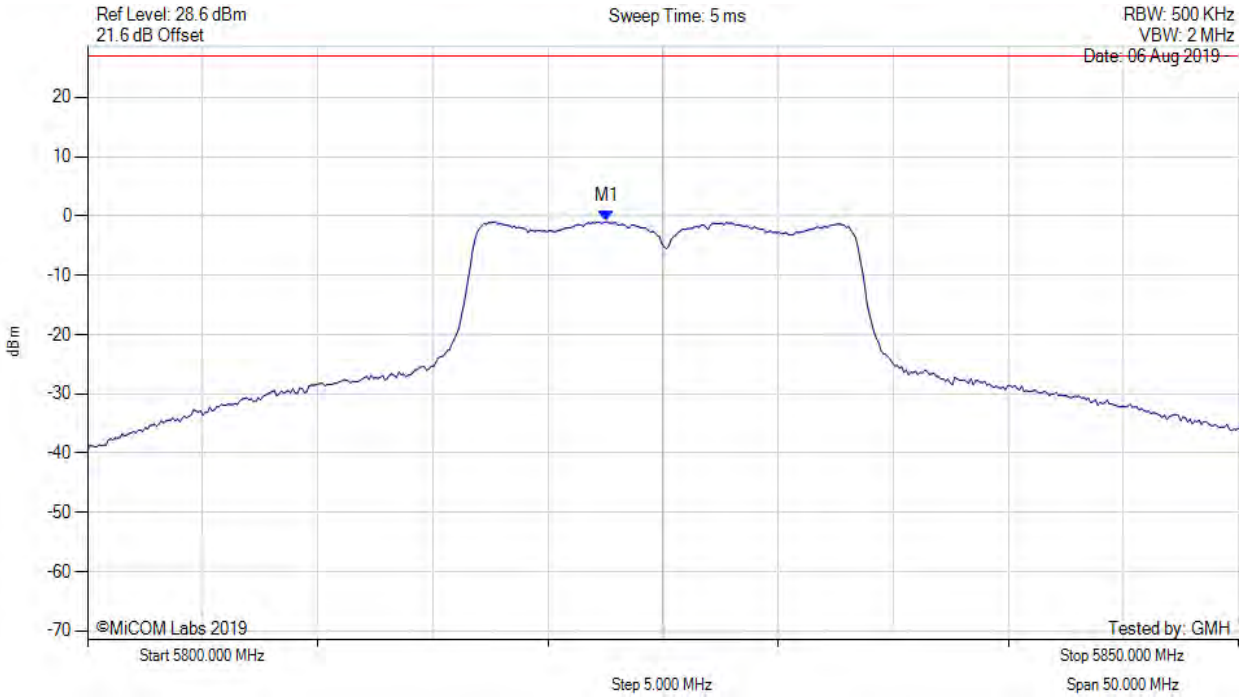



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.500 MHz : 3.623 dBm<br>M1 + DCCF : 5792.500 MHz : 3.711 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 30.0 dBm<br>Margin: -26.3 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

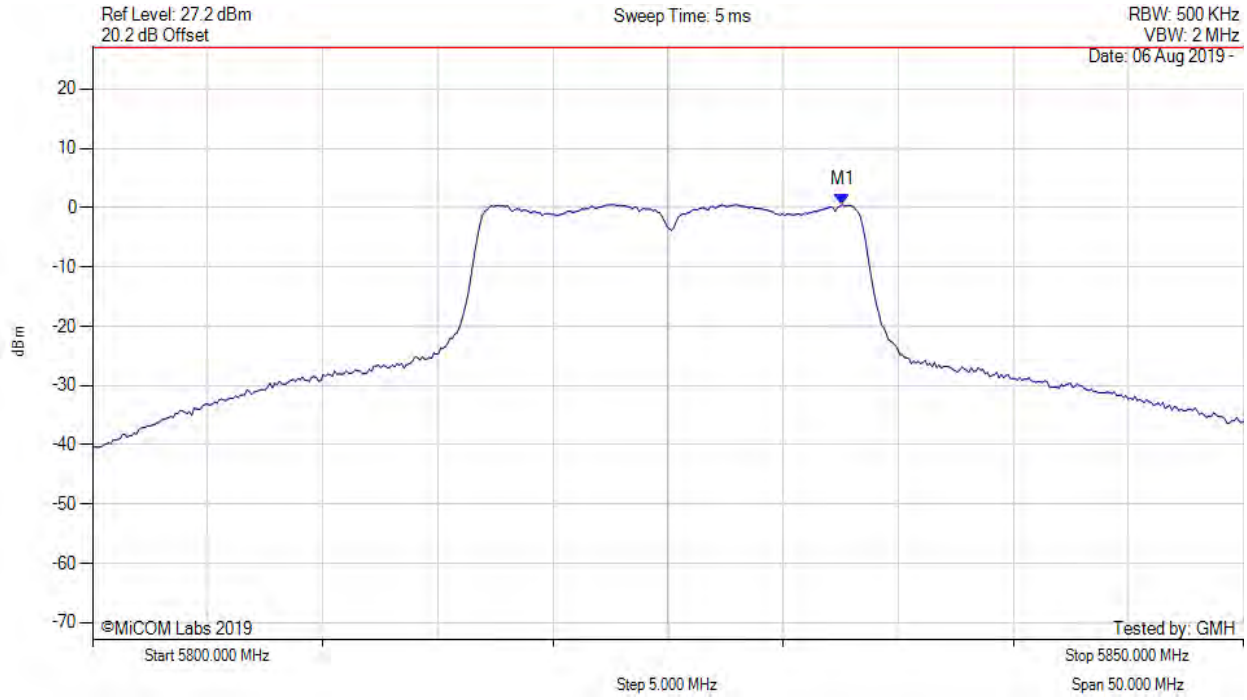



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5822.545 MHz : -0.953 dBm | Limit: ≤ 26.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

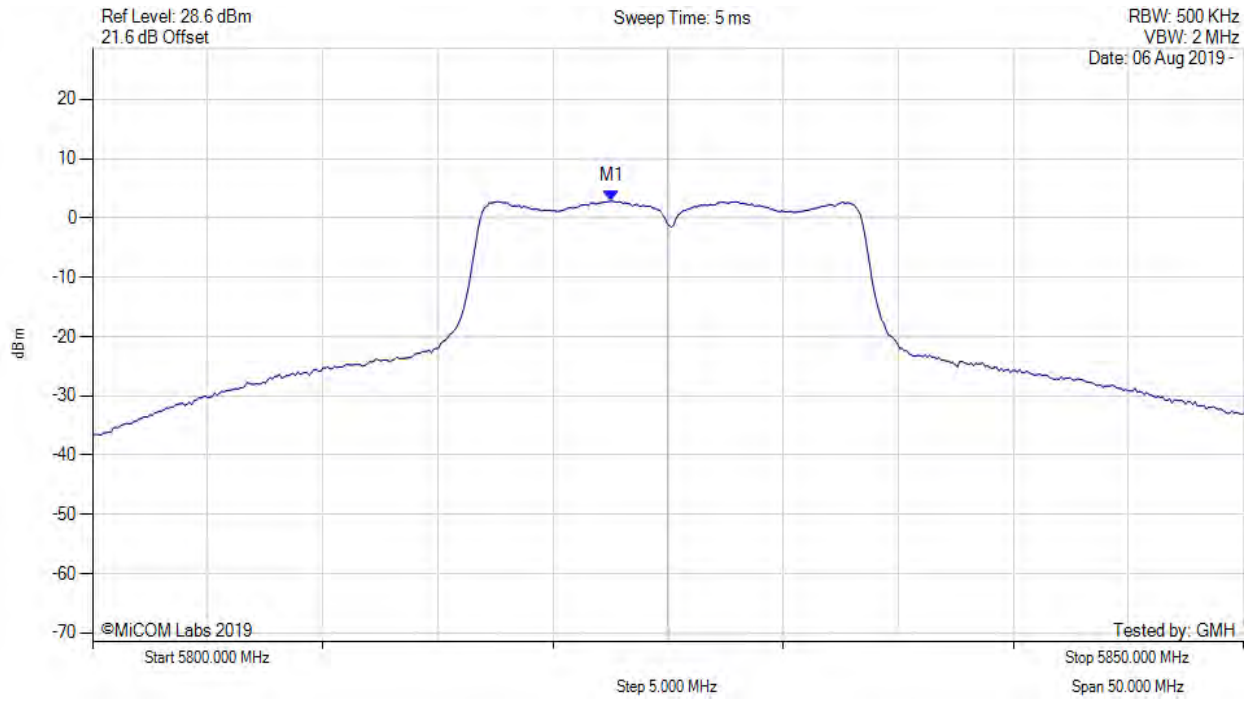



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5832.565 MHz : 0.538 dBm | Limit: ≤ 26.990 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

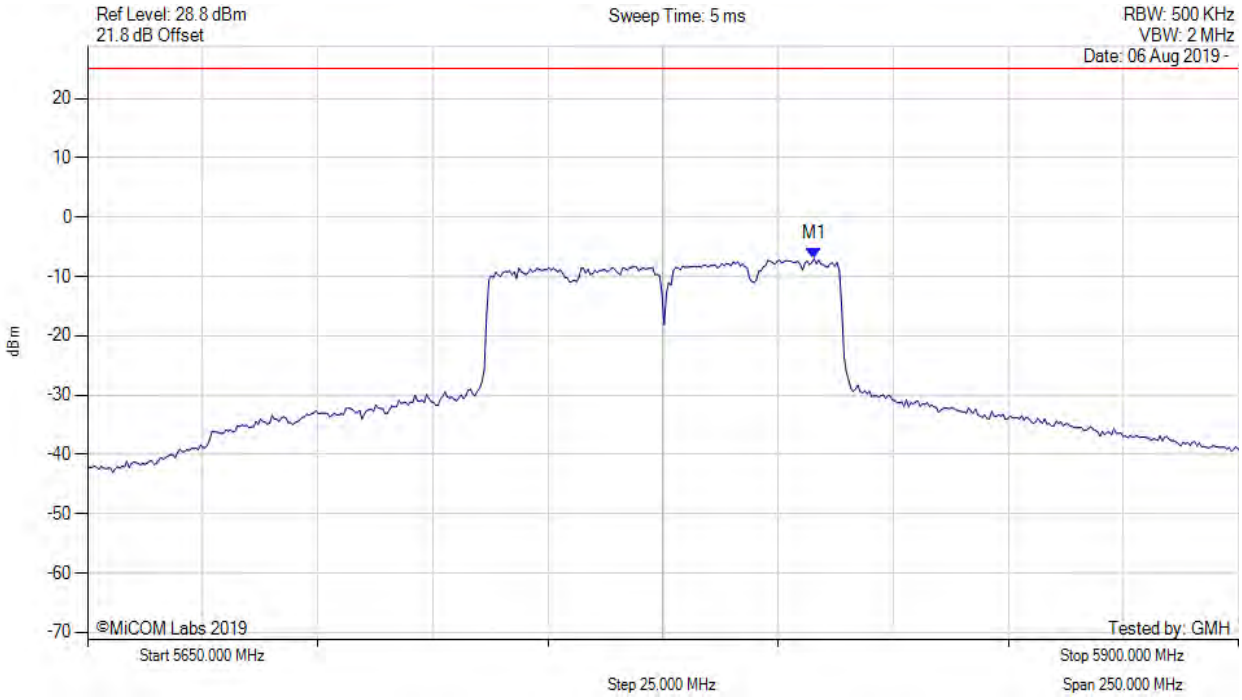



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5822.500 MHz : 2.843 dBm<br>M1 + DCCF : 5822.500 MHz : 2.931 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 30.0 dBm<br>Margin: -27.1 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

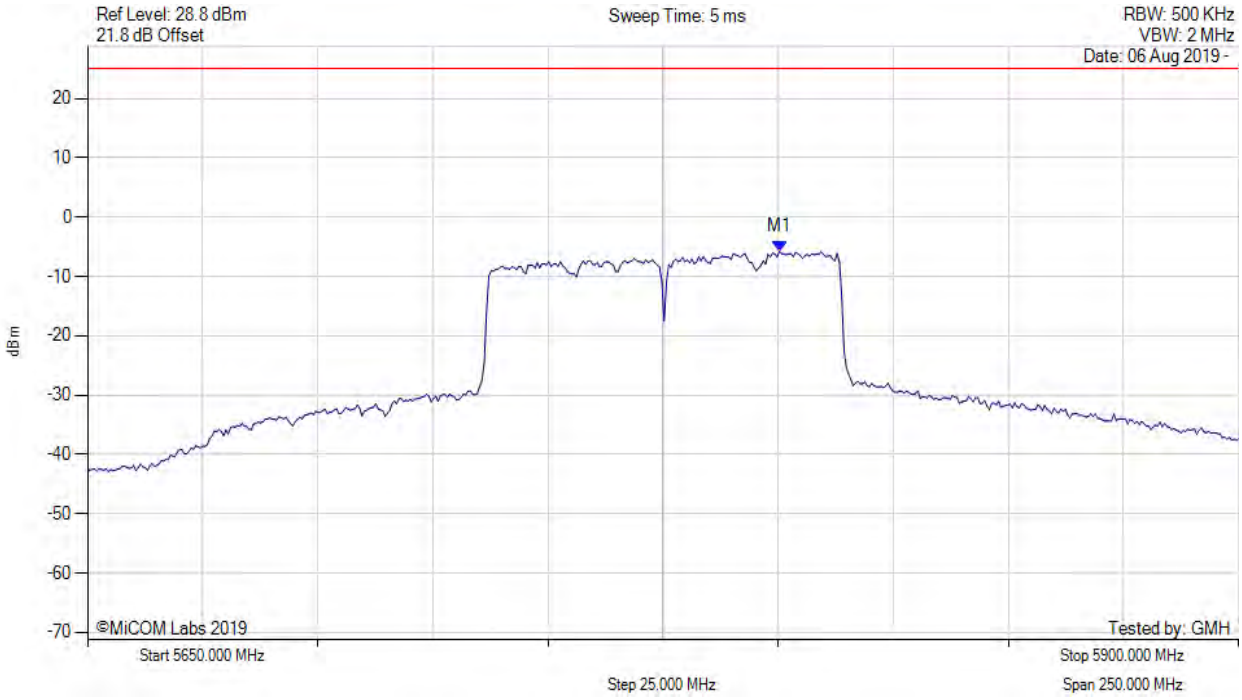



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5807.816 MHz : -7.018 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

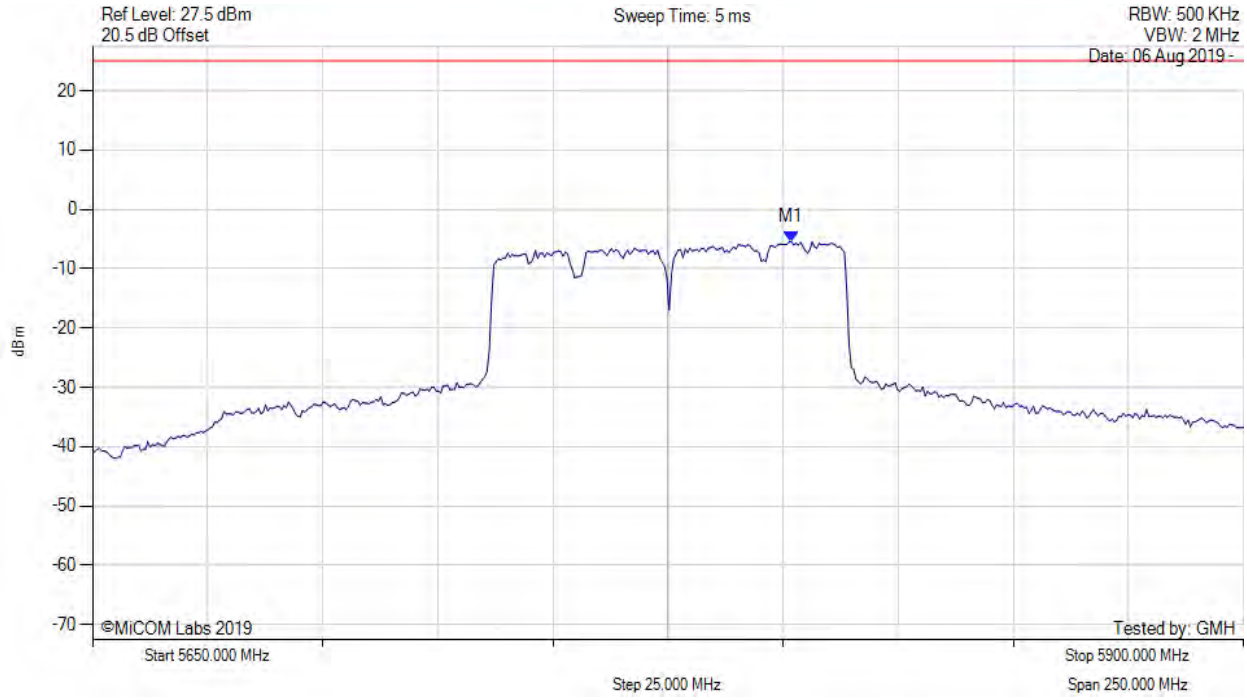



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5800.301 MHz : -5.749 dBm | Channel Frequency: 5775.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

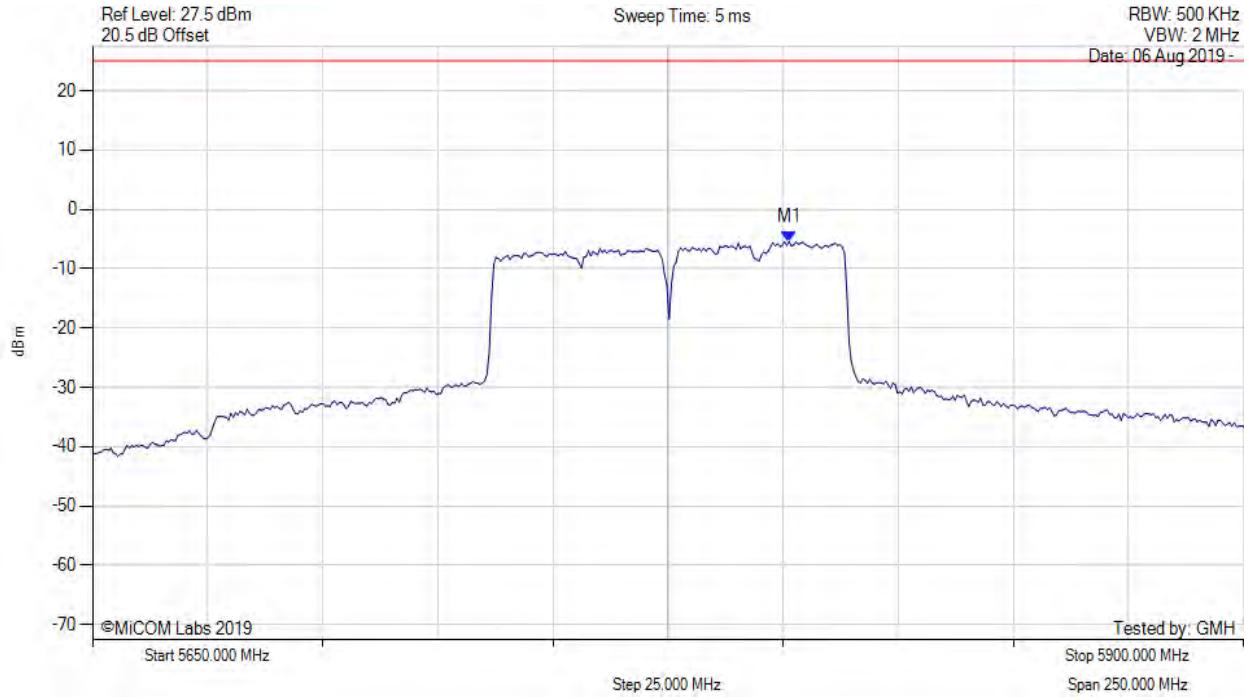



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5801.804 MHz : -5.451 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

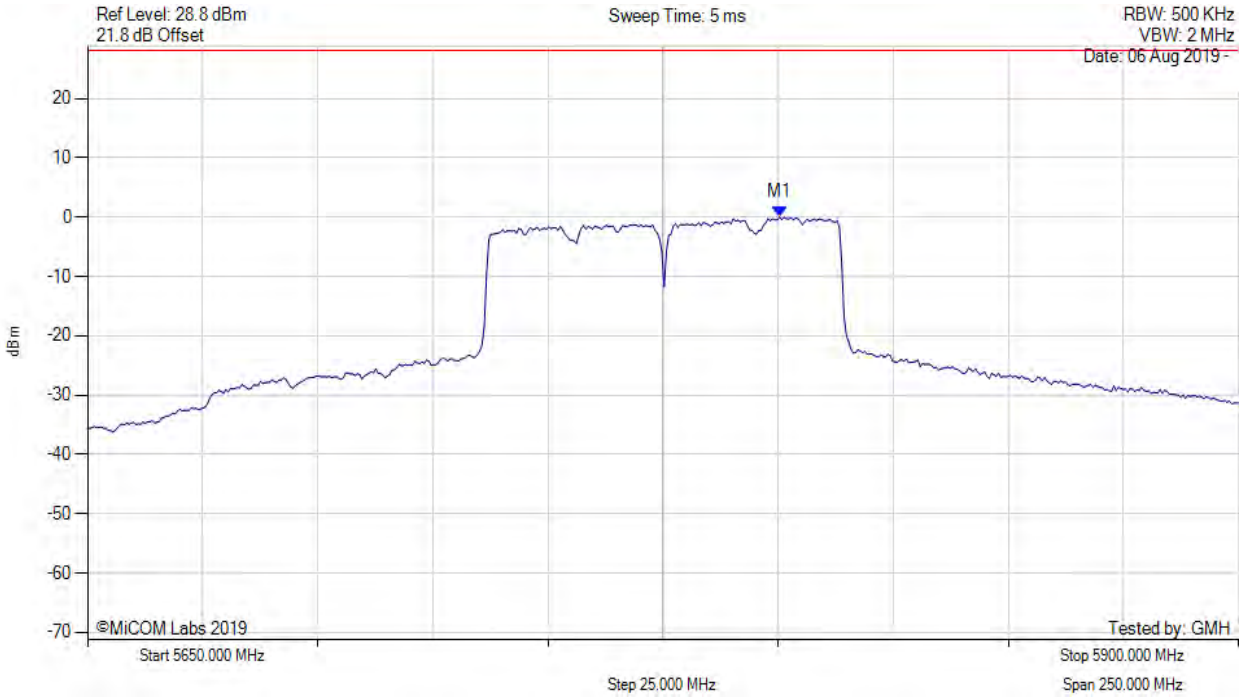



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5801.303 MHz : -5.423 dBm | Channel Frequency: 5775.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

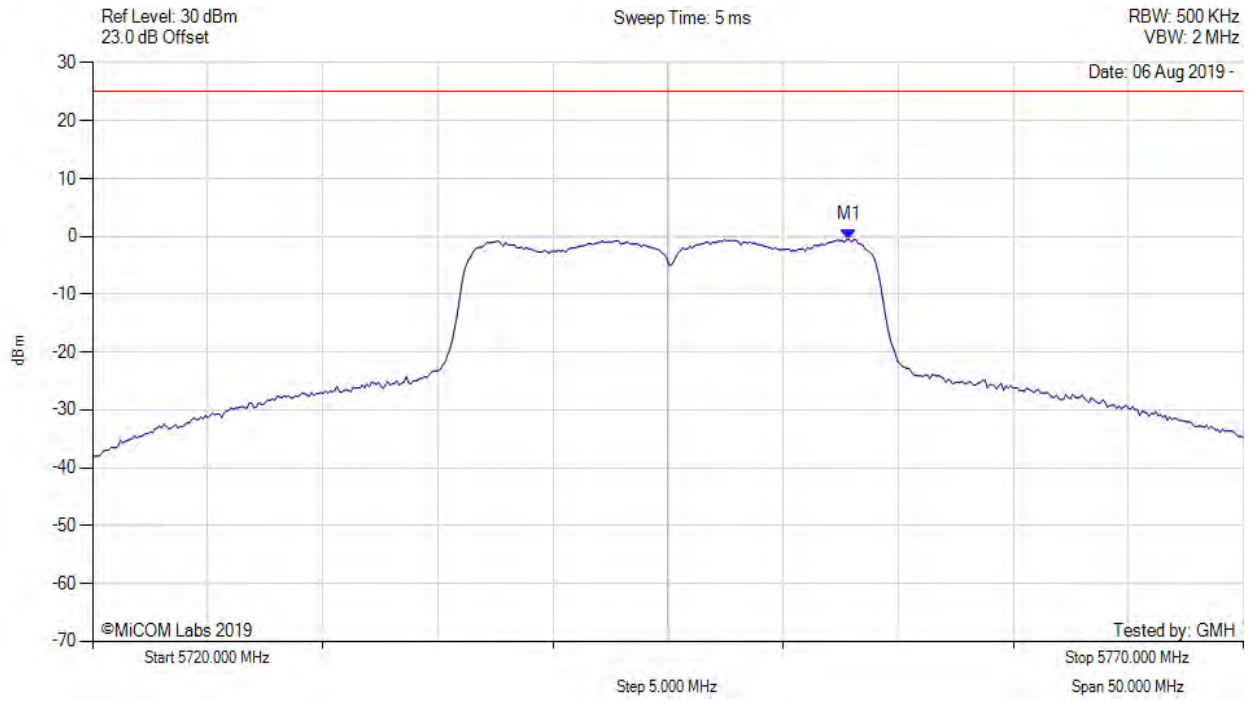



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5800.300 MHz : -0.013 dBm<br>M1 + DCCF : 5800.300 MHz : 0.075 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -28.0 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

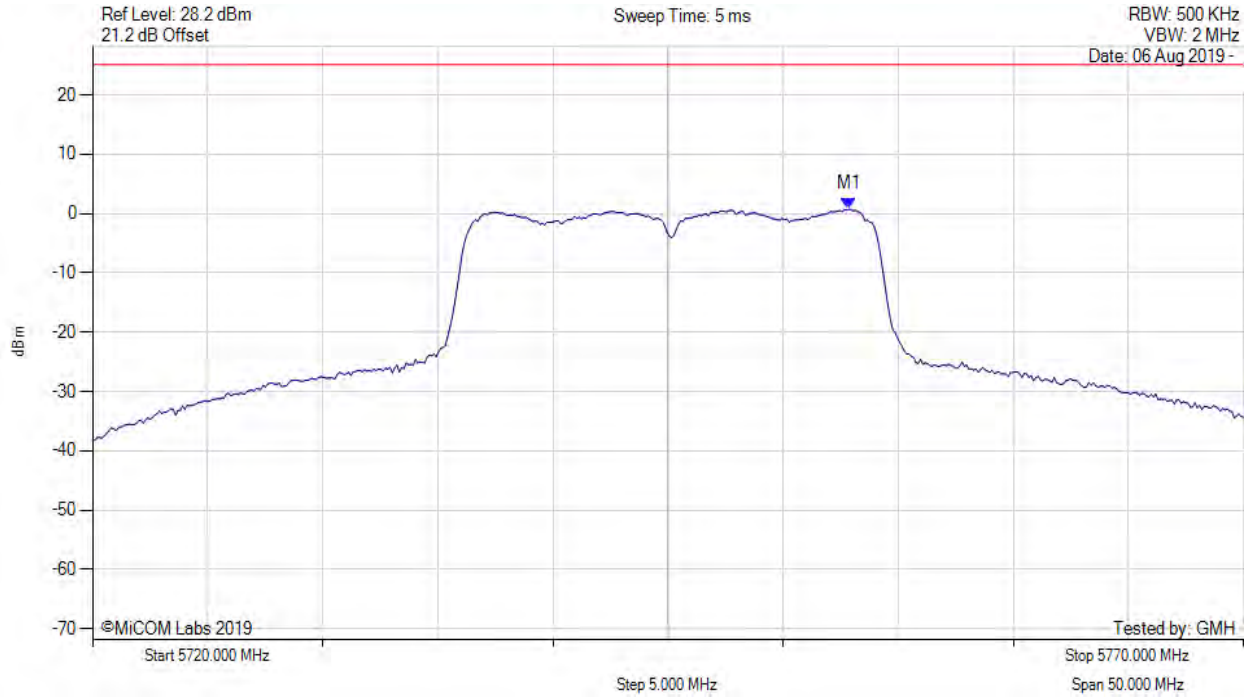



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.866 MHz : -0.538 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

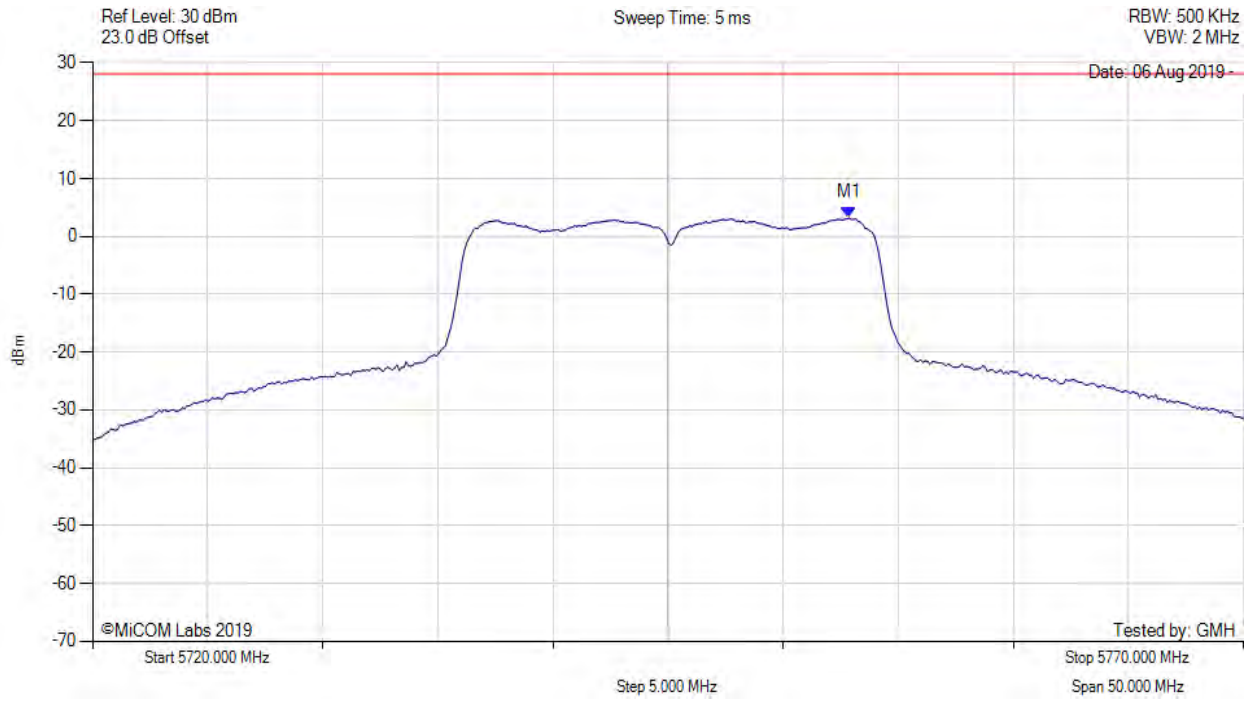



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.866 MHz : 0.776 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

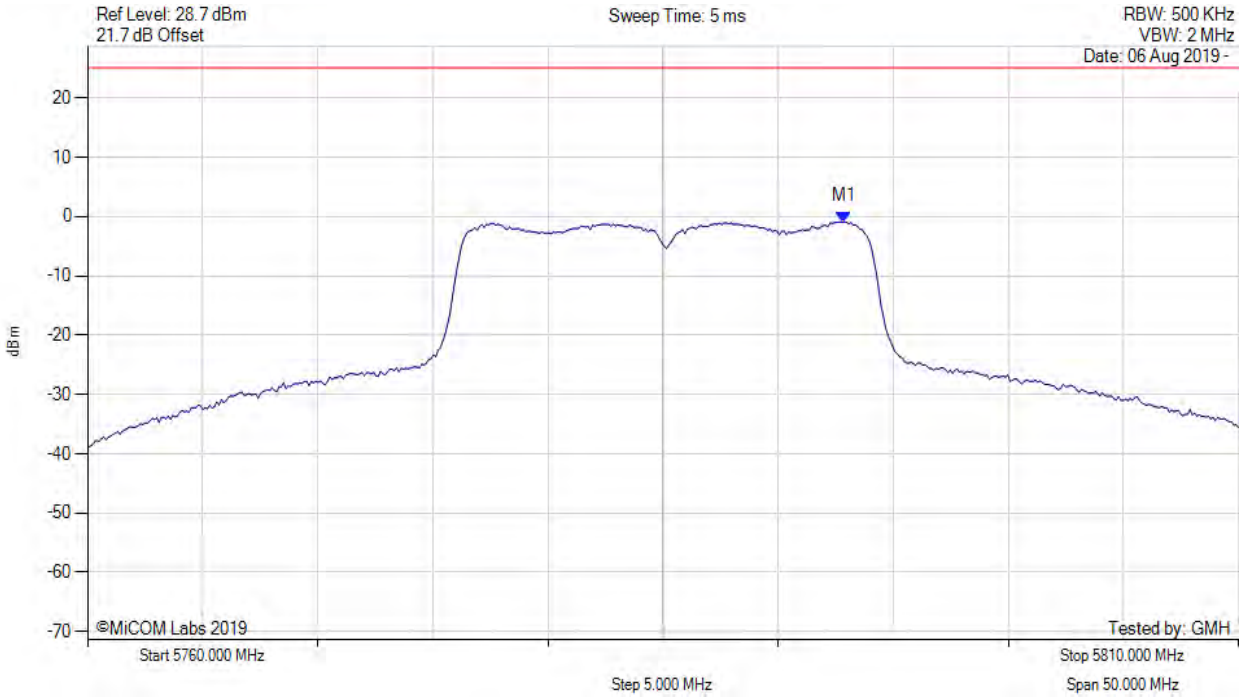



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5752.900 MHz : 3.179 dBm<br>M1 + DCCF : 5752.900 MHz : 3.267 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -24.8 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

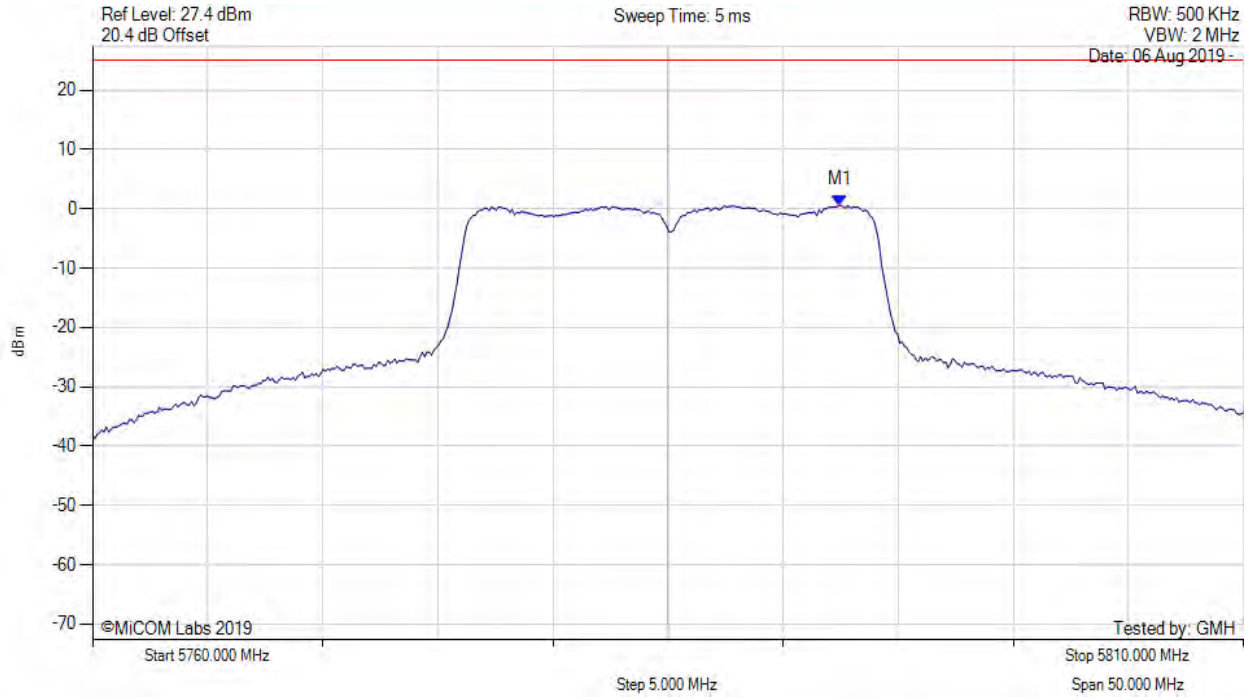



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.866 MHz : -0.897 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

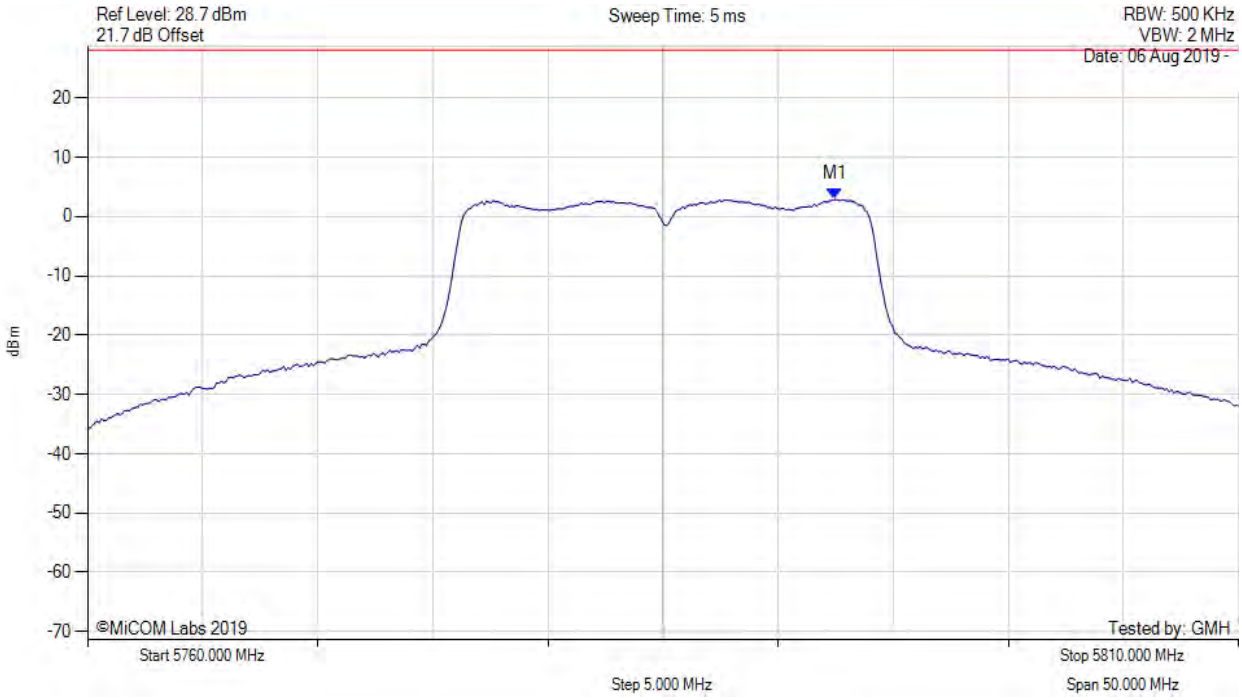



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.465 MHz : 0.600 dBm | Channel Frequency: 5785.00 MHz |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc

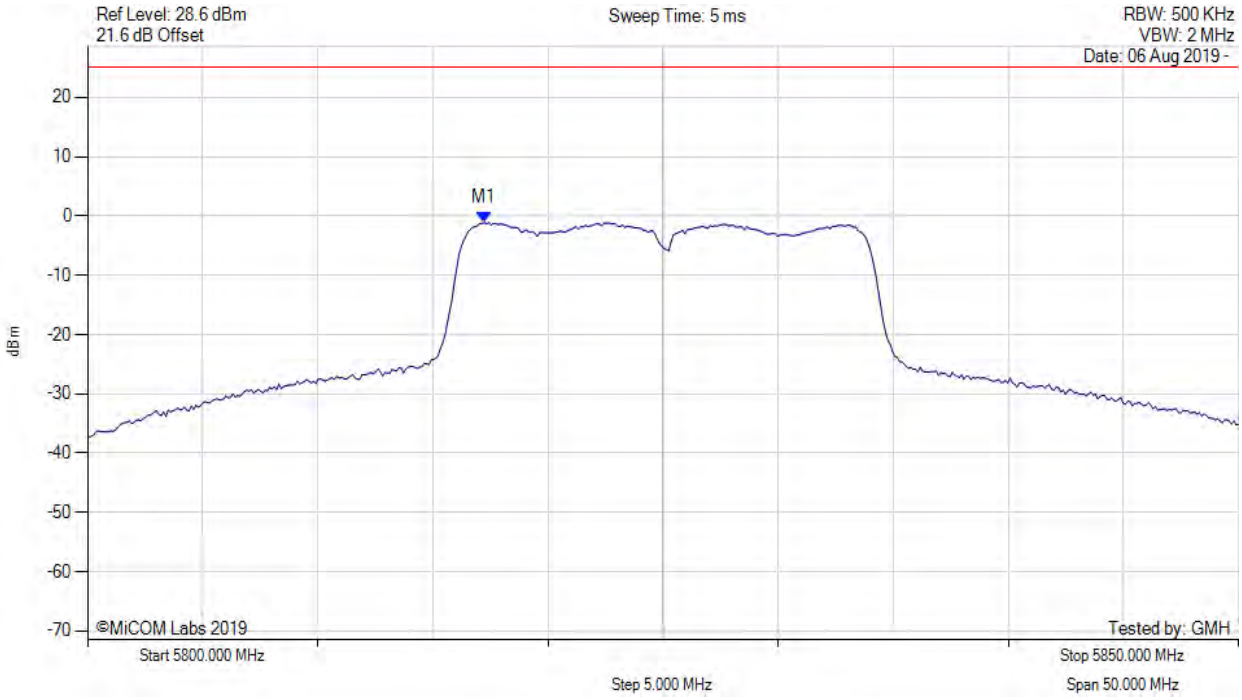



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5792.500 MHz : 2.877 dBm<br>M1 + DCCF : 5792.500 MHz : 2.965 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -25.1 dB |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

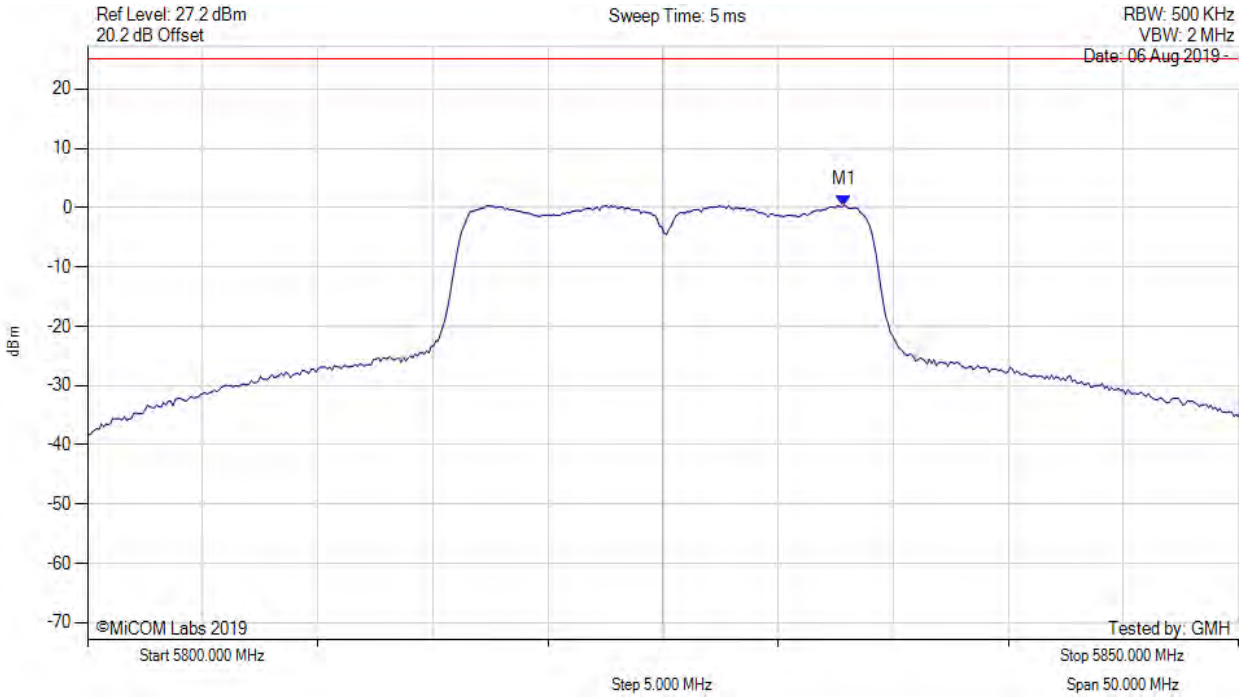



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5817.234 MHz : -1.137 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

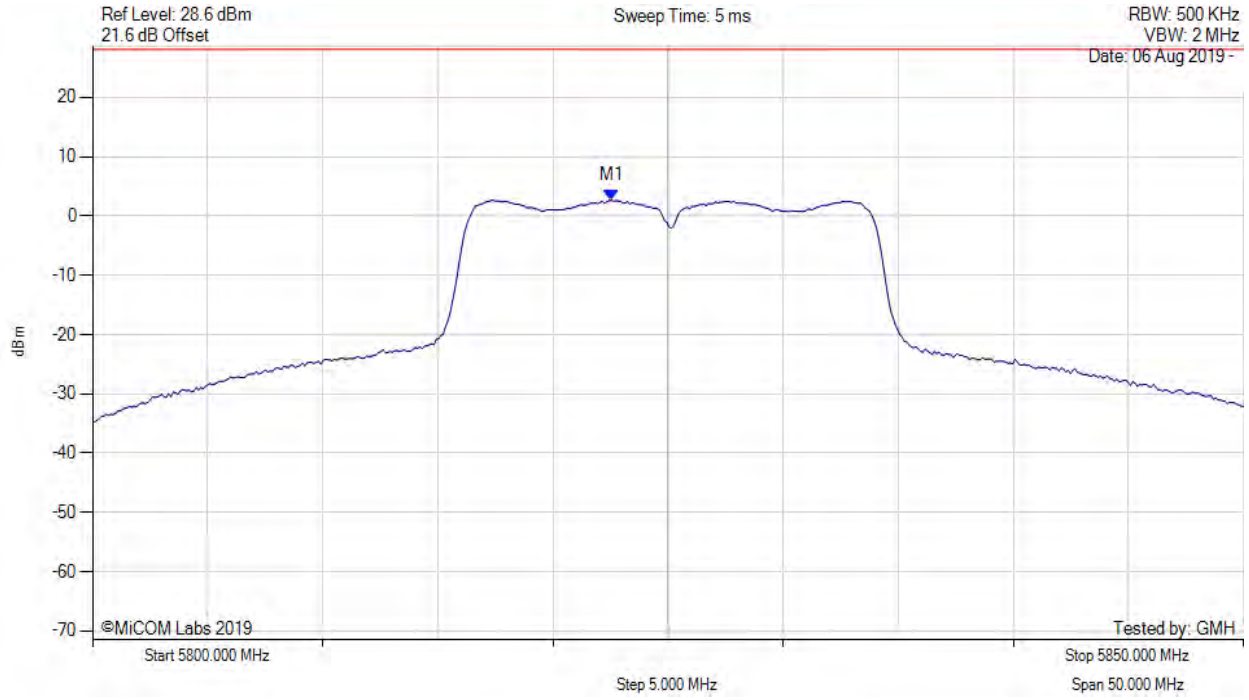



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5832.866 MHz : 0.412 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5822.500 MHz : 2.644 dBm<br>M1 + DCCF : 5822.500 MHz : 2.732 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -25.4 dB |

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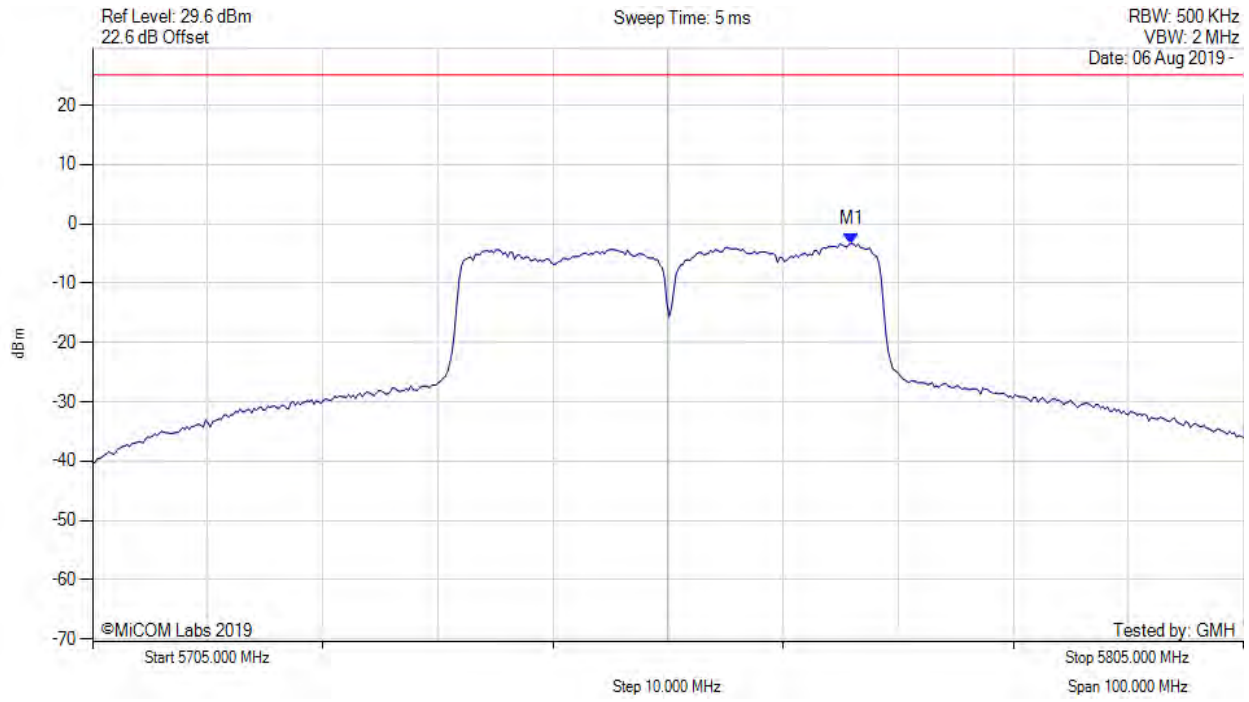
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5770.932 MHz : -3.331 dBm | Limit: ≤ 25.090 dBm |

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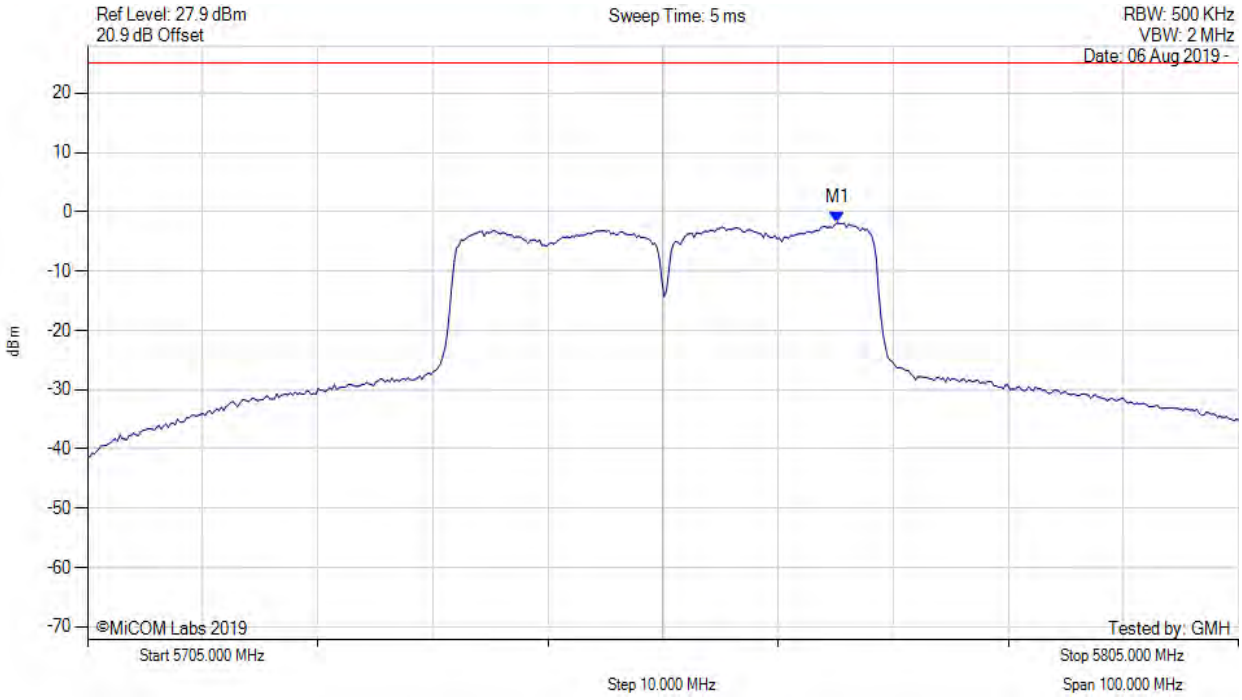
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5770.130 MHz : -1.869 dBm | Limit: ≤ 25.090 dBm |

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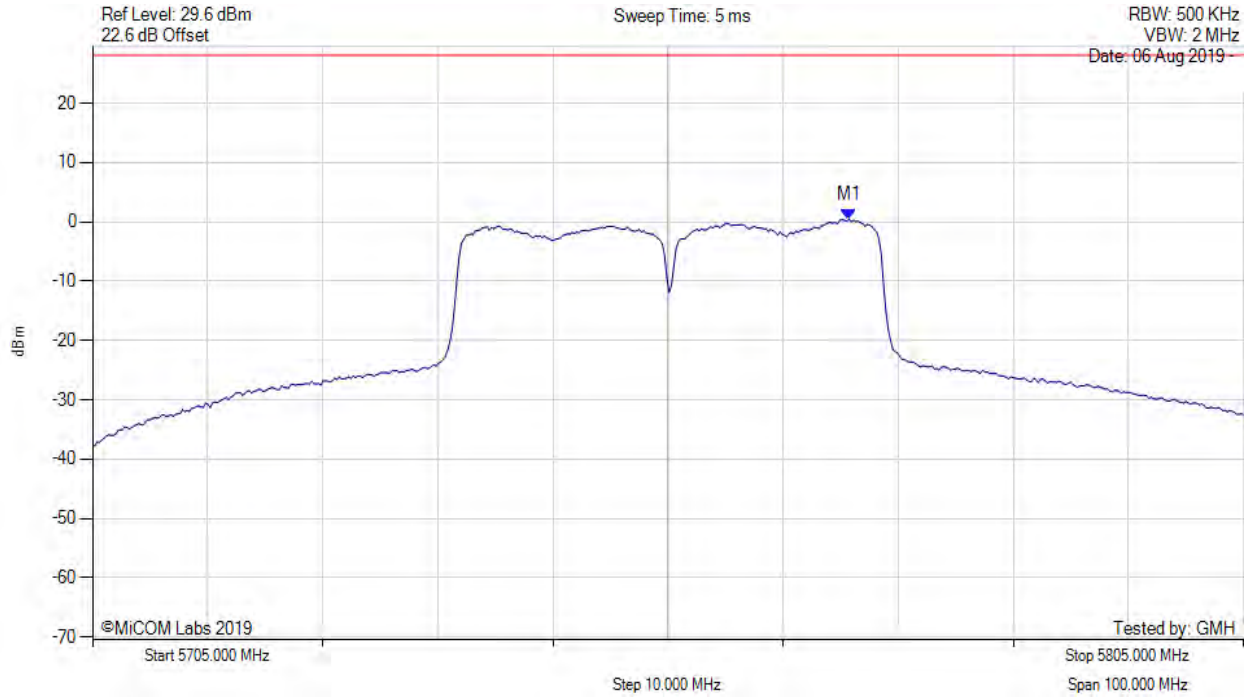
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5770.700 MHz : 0.398 dBm<br>M1 + DCCF : 5770.700 MHz : 0.486 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -27.6 dB |

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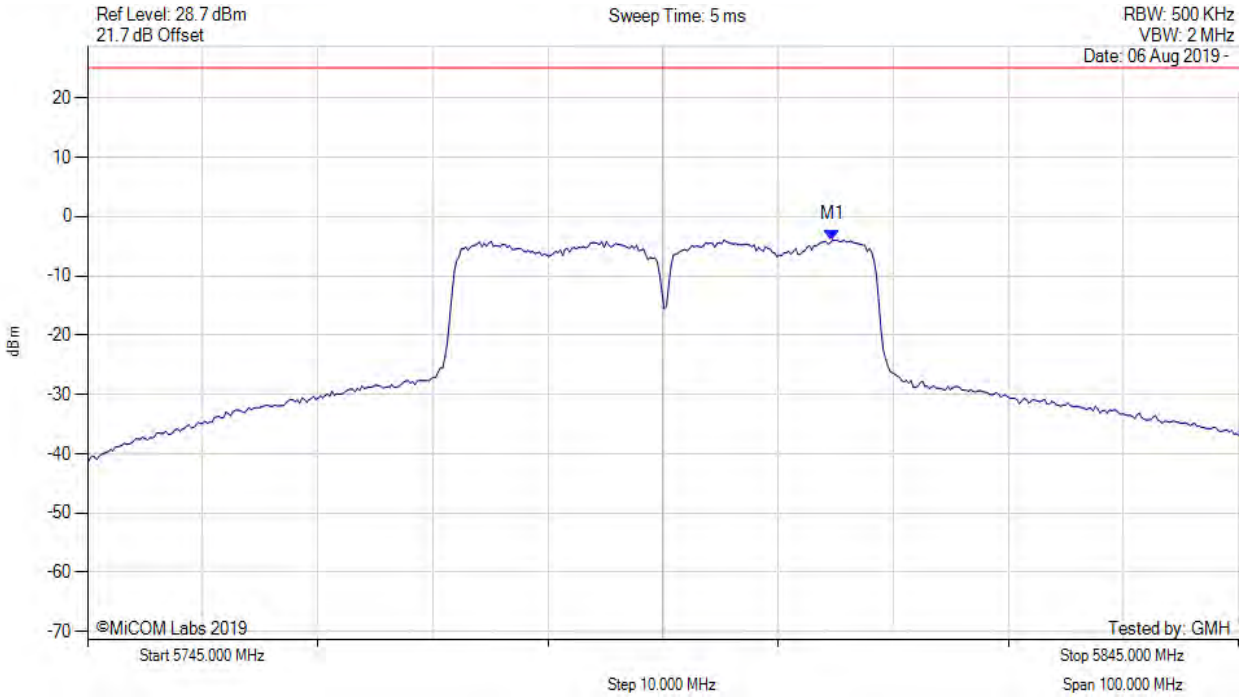
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: 20, Voltage: 55 Vdc

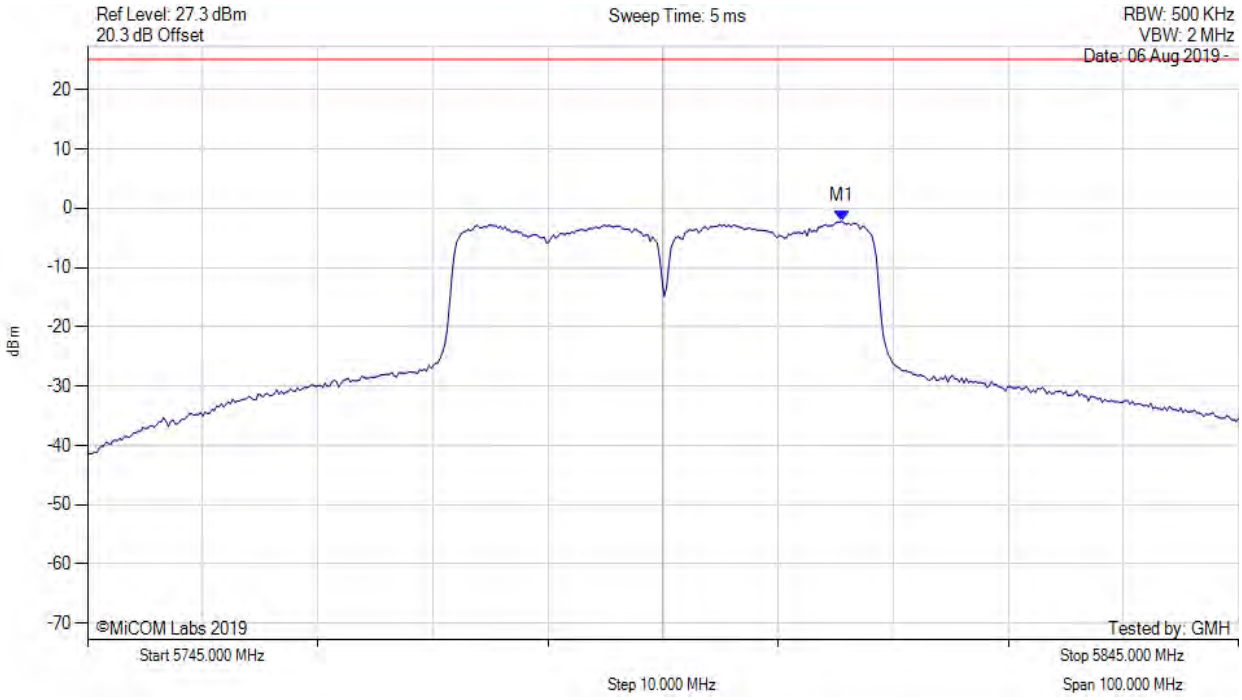



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5809.729 MHz : -3.940 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: 20, Voltage: 55 Vdc

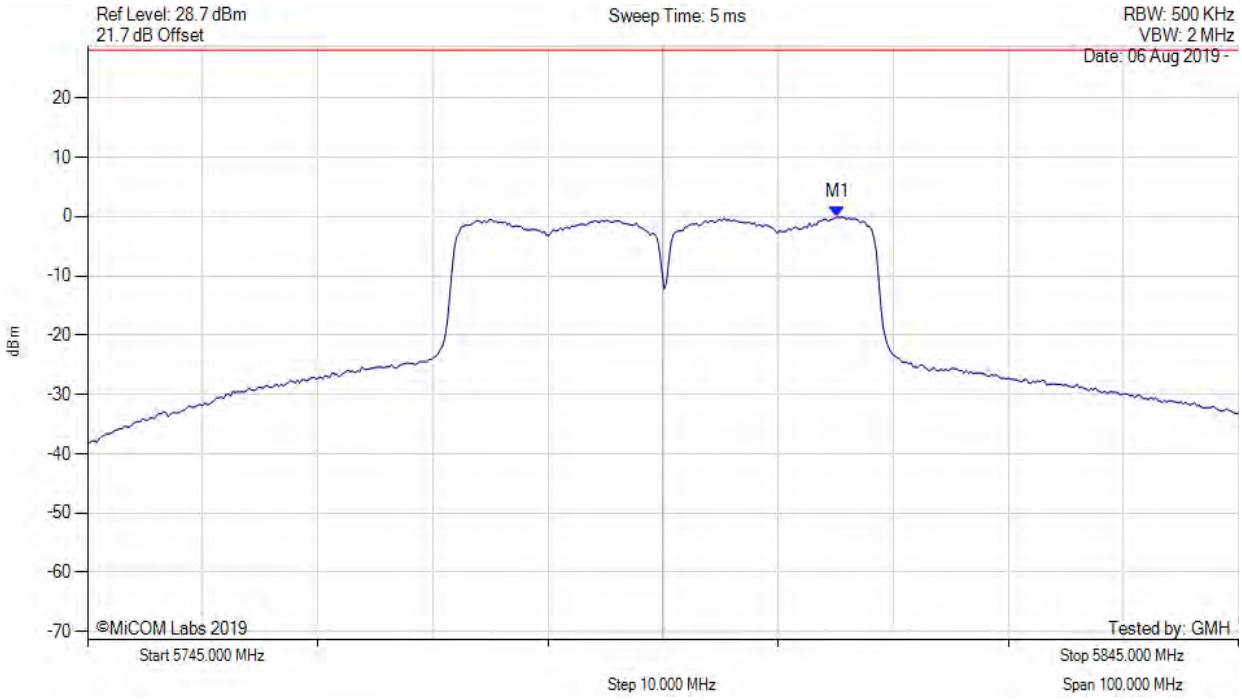



| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5810.531 MHz : -2.196 dBm | Limit: ≤ 25.090 dBm |

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: 20, Voltage: 55 Vdc




| Analyzer Setup | Marker:Frequency:Amplitude | Test Results |
|---|---|---|
| Detector = RMS<br>Sweep Count = 100<br>RF Atten (dB) = 20<br>Trace Mode = VIEW | M1 : 5810.100 MHz : -0.051 dBm<br>M1 + DCCF : 5810.100 MHz : 0.037 dBm<br>Duty Cycle Correction Factor : +0.09 dB | Limit: ≤ 28.1 dBm<br>Margin: -28.1 dB |

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