TEST REPORT ADDENDUM - CONDUCTED

FROM

Test of: Test of: Mimosa Networks A5c, A5-14, A5-18

To: FCC CFR 47 Part 15 Subpart E 15.407 & IC RSS-247 (DFS Bands)

Test Report Serial No.: MIMO09-U8_Conducted Addendum Rev A

Issue Date: 2nd August 2016

Master Document Number	Addendum Reports
MIMO09-U8_Master	MIMO09-U8_Conducted
	MIMO09-U8_Radiated
	MIMO09-U8_DFS
	MIMO09 – U2 (FCC Part15B Emissions) A5C
	MIMO09 – U3 (FCC Part15B Emissions) A5-14, A5-18

Table of Contents

1. MEASUREMENT AND PRESENTATION OF TEST DATA

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

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

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

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

2. TEST SUMMARY

List of Measurements

Test Header	Result	Data Link
(a) Peak Transmit Power	Complies	View Data
(a) 26 dB & 99% Bandwidth	Complies	View Data
(a)(5) Power Spectral Density	Complies	View Data

3. TEST RESULTS

3.1. Peak Transmit 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)	**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.

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	16.55	16.82	16.94	16.79	22.80	23.647	24.00	-1.20	0x13
5300.0	16.56	17.09	17.25	17.27	23.08	23.547	24.00	-0.92	0x13
5335.0	15.93	16.63	16.81	16.73	22.56	24.248	24.00	-1.44	0x13

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	17.50	17.52	17.64	17.98	23.69	42.285	24.00	-0.31	0x11
5330.0	16.62	16.79	16.92	17.16	22.90	42.285	24.00	-1.10	0x11

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

DCCF - Duty Cycle Correction Factor

Variant:	802.11ac 80	**Duty Cycle (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	16.48	16.49	16.58	16.66	22.58	82.565	24.00	-1.42	0x12

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	
5485.0	16.29	16.74	15.96	17.05	22.55	23.647	24.00	-1.45	0x11
5580.0	16.27	16.22	15.80	16.36	22.19	23.547	24.00	-1.81	0x11
5720.0	16.65	17.29	16.65	16.00	22.70	23.647	24.00	-1.30	0x11

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	16.55	16.78	16.13	17.17	22.70	42.084	24.00	-1.30	0x15
5550.0	16.22	16.43	15.58	16.10	22.12	42.285	24.00	-1.88	0x15
5710.0	16.98	17.35	16.68	16.01	22.81	42.285	24.00	-1.19	0x15

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac 80	**Duty Cycle (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (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	16.49	16.43	16.03	16.85	22.48	81.764	24.00	-1.52	0x11
5610.0	16.24	16.28	15.97	16.47	22.27	81.764	24.00	-1.73	0x11
5690.0	16.28	16.55	16.36	16.54	22.46	83.367	24.00	-1.54	0x12

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

DCCF - Duty Cycle Correction Factor

3.2. 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:	802.11ac 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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	24.148	24.048	24.148	23.647	24.148	23.647		
5300.0	24.148	23.547	24.148	23.547	24.148	23.547		
5335.0	24.549	24.248	24.248	24.248	24.549	24.248		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5260.0	17.936	18.036	17.936	17.936	18.036	17.936		
5300.0	17.936	18.036	17.936	17.936	18.036	17.936		
5335.0	18.036	18.036	18.036	17.936	18.036	17.936		

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 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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**		
5270.0	43.487	42.886	43.086	42.285	43.487	42.285		
5330.0	43.487	43.086	42.886	42.285	43.487	42.285		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	36.874	36.874	36.673	36.473	36.874	36.473		
5330.0	36.874	36.673	36.673	36.673	36.874	36.673		

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 (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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	84.168	82.565	83.367	82.565	84.168	82.565		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	75.752	75.752	75.752	75.752	75.752	75.752		

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 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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**		
5485.0	23.948	23.647	23.647	23.848	23.948	23.647		
5580.0	23.948	23.848	23.848	23.547	23.948	23.547		
5720.0	23.747	24.248	23.647	24.048	24.248	23.647		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5485.0	18.036	17.936	17.936	17.936	18.036	17.936		
5580.0	17.936	18.036	18.036	17.936	18.036	17.936		
5720.0	18.036	18.036	18.036	17.936	18.036	17.936		

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 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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**		
5510.0	43.086	43.086	42.886	42.084	43.086	42.084		
5550.0	43.687	42.886	43.287	42.285	43.687	42.285		
5710.0	43.487	43.086	43.487	42.285	43.487	42.285		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	36.874	36.673	36.673	36.473	36.874	36.473		
5550.0	36.874	36.874	36.874	36.473	36.874	36.473		
5710.0	36.874	36.874	36.874	36.473	36.874	36.473		

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 (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
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**		
5530.0	83.768	81.764	82.565	81.764	83.768	81.764		
5610.0	83.768	81.764	82.966	81.764	83.768	81.764		
5690.0	83.367	83.768	83.768	84.168	84.168	83.367		

Test Frequency	Measured 99% Bandwidth (MHz) Port(s)				99% Bandwidth (MHz)			
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	75.752	75.752	75.752	75.752	75.752	75.752		
5610.0	75.752	75.351	75.752	76.152	76.152	75.351		
5690.0	75.752	75.351	75.752	75.752	75.752	75.351		

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).

3.3. 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:	802.11ac 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	3.978	4.298	4.529	4.745	10.386	11.0	-0.6
5300.0	3.950	4.520	4.720	4.642	10.449	11.0	-0.6
5335.0	3.346	4.326	4.417	4.224	10.080	11.0	-0.9

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 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5270.0	2.043	2.012	1.960	2.498	8.142	11.0	-2.9
5330.0	1.035	1.392	1.456	1.788	7.369	11.0	-3.7

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 (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5290.0	-1.964	-1.769	-1.142	-1.619	4.305	11.0	-6.7

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 20	**Duty Cycle (%):**	99.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5485.0	3.965	4.353	3.427	4.691	10.129	11.0	-0.9
5580.0	3.642	3.774	3.268	3.914	9.660	11.0	-1.4
5720.0	4.516	5.160	4.502	3.889	10.529	11.0	-0.5

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:	802.11ac 40	**Duty Cycle (%):**	99.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5510.0	1.223	1.464	0.629	1.865	7.347	11.0	-3.7
5550.0	0.813	1.174	0.098	0.759	6.667	11.0	-4.4
5710.0	2.209	2.140	1.451	0.854	7.711	11.0	-3.3

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density			
Variant:	802.11ac 80	**Duty Cycle (%):**	99.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	5.00
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5530.0	-1.961	-1.657	-2.337	-0.893	4.122	11.0	-6.9
5610.0	-1.376	-1.038	-2.435	-1.336	4.336	11.0	-6.7
5690.0	-0.735	-0.482	-1.002	-0.428	5.120	11.0	-5.9

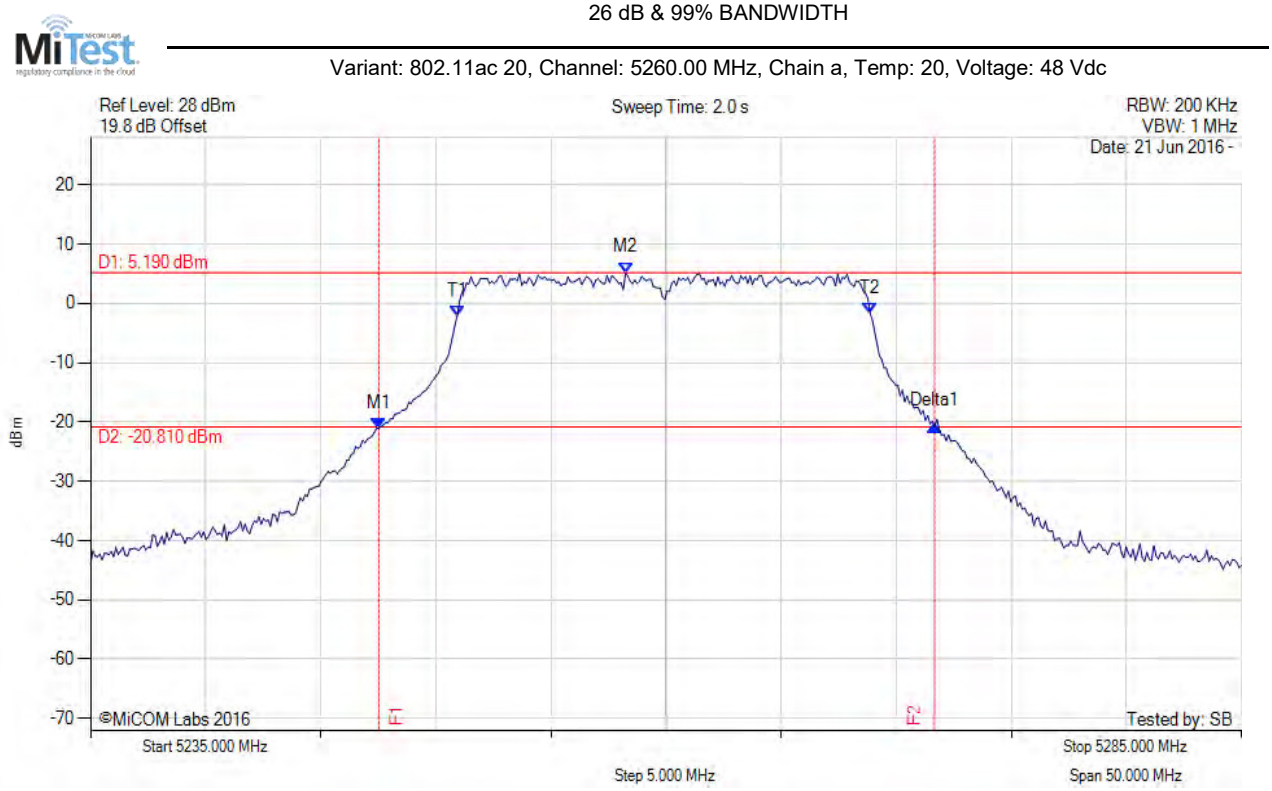
Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-03 MEASURING RF SPECTRUM MASK
Measurement Uncertainty:	±2.81 dB

DCCF - Duty Cycle Correction Factor

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

A. APPENDIX - GRAPHICAL IMAGES

A.1. 26 dB & 99% Bandwidth

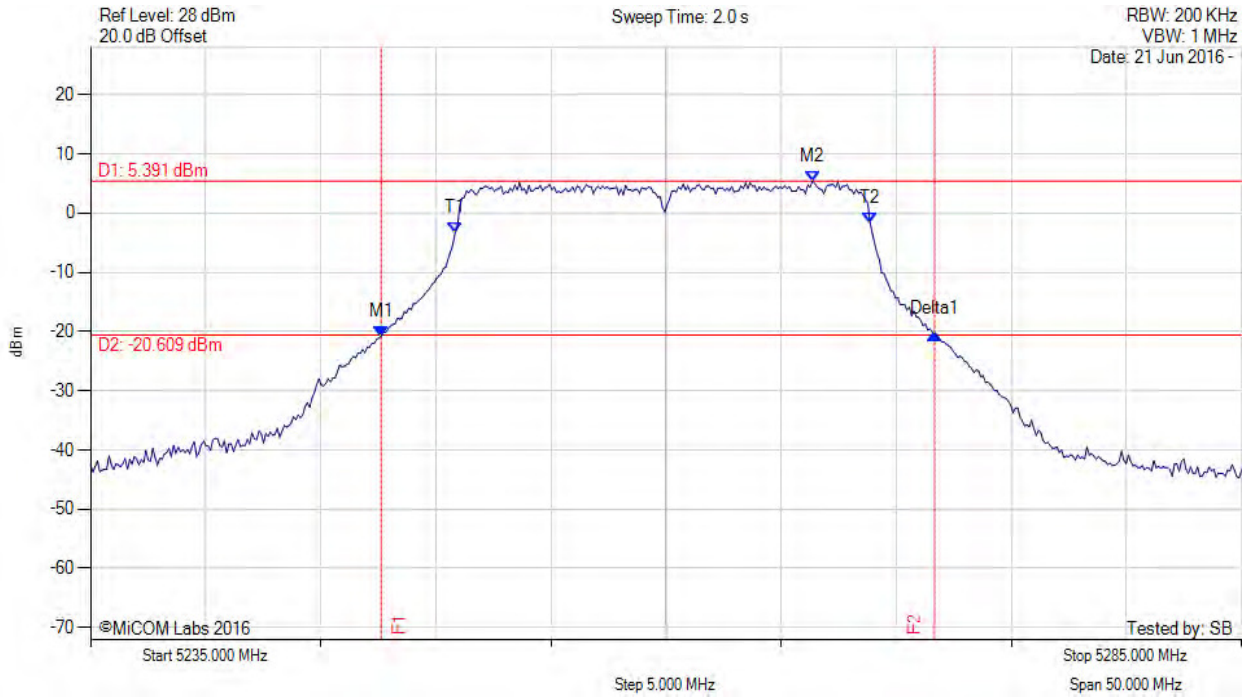


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.525 MHz : -21.091 dBm M2 : 5258.246 MHz : 5.190 dBm Delta1 : 24.148 MHz : 0.445 dB T1 : 5250.932 MHz : -2.097 dBm T2 : 5268.868 MHz : -1.717 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.148 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

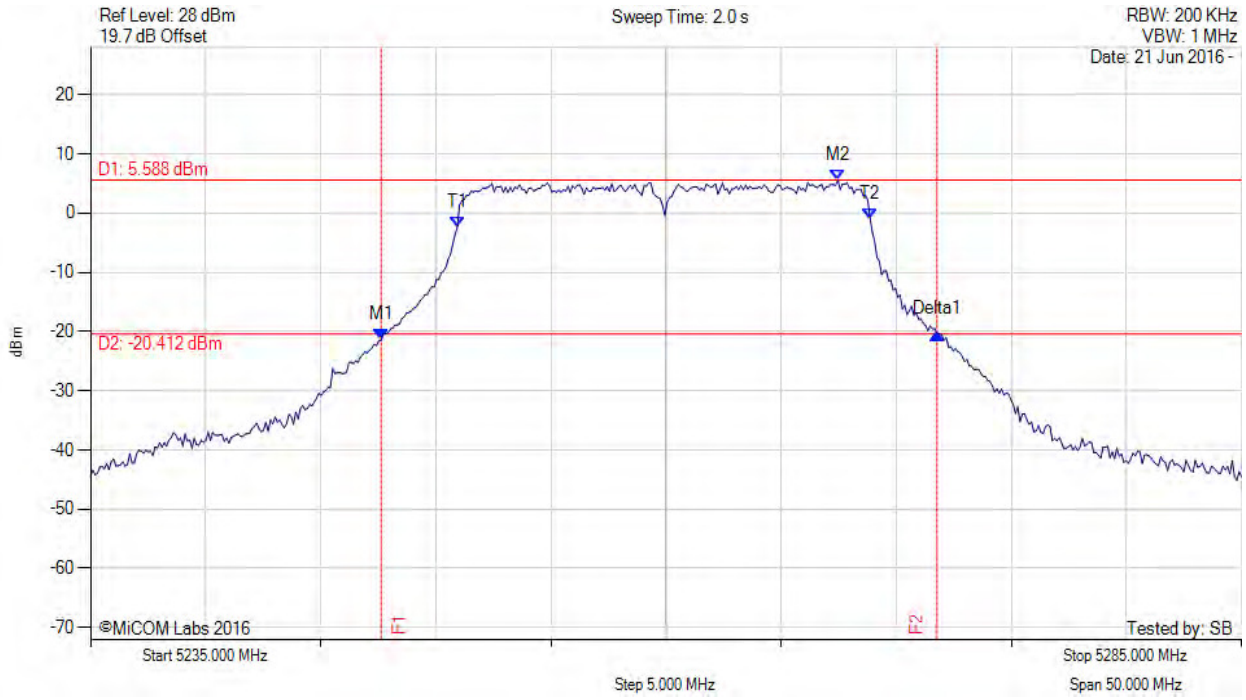


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.625 MHz : -20.794 dBm M2 : 5266.363 MHz : 5.391 dBm Delta1 : 24.048 MHz : 0.354 dB T1 : 5250.832 MHz : -3.366 dBm T2 : 5268.868 MHz : -1.678 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 24.048 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

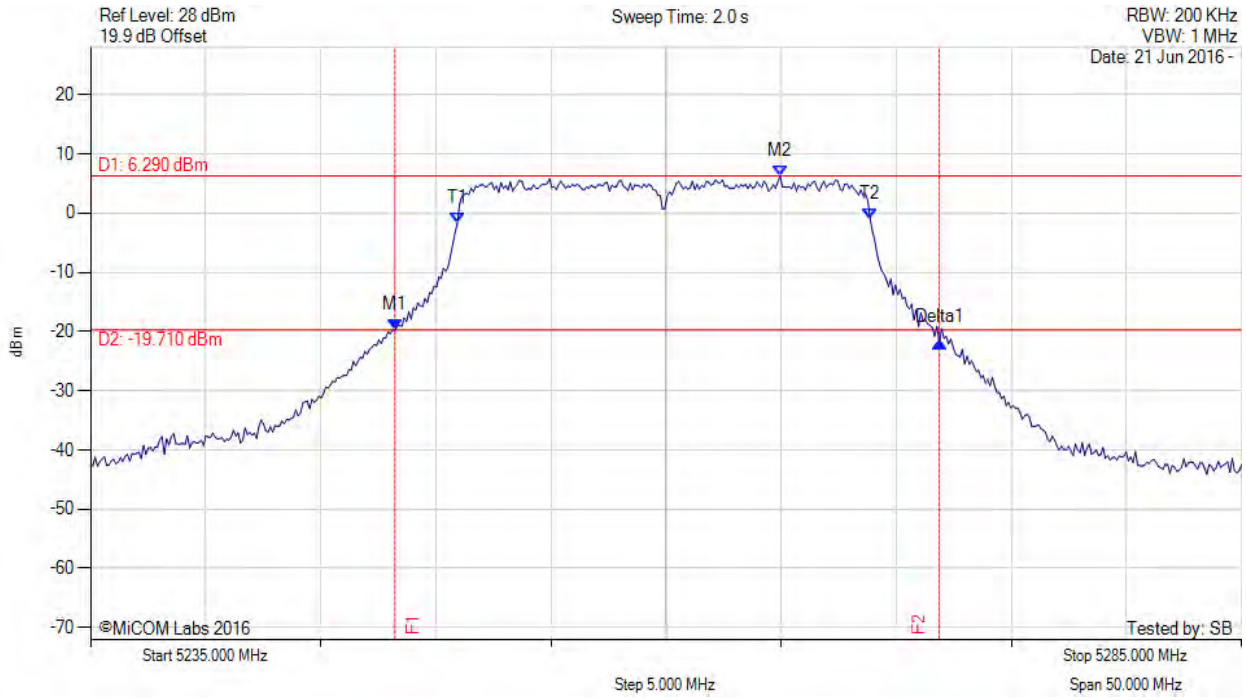


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.625 MHz : -21.430 dBm M2 : 5267.465 MHz : 5.588 dBm Delta1 : 24.148 MHz : 1.066 dB T1 : 5250.932 MHz : -2.398 dBm T2 : 5268.868 MHz : -0.934 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.148 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

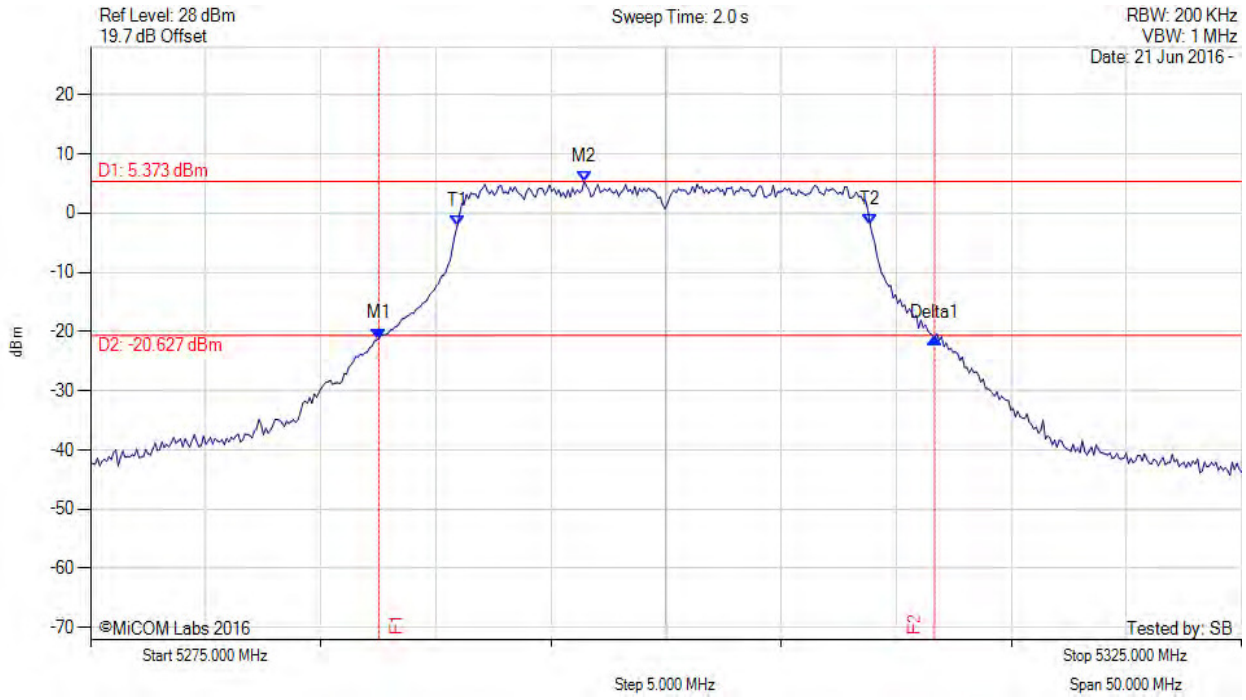


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.226 MHz : -19.769 dBm M2 : 5264.960 MHz : 6.290 dBm Delta1 : 23.647 MHz : -2.101 dB T1 : 5250.932 MHz : -1.774 dBm T2 : 5268.868 MHz : -1.005 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.647 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

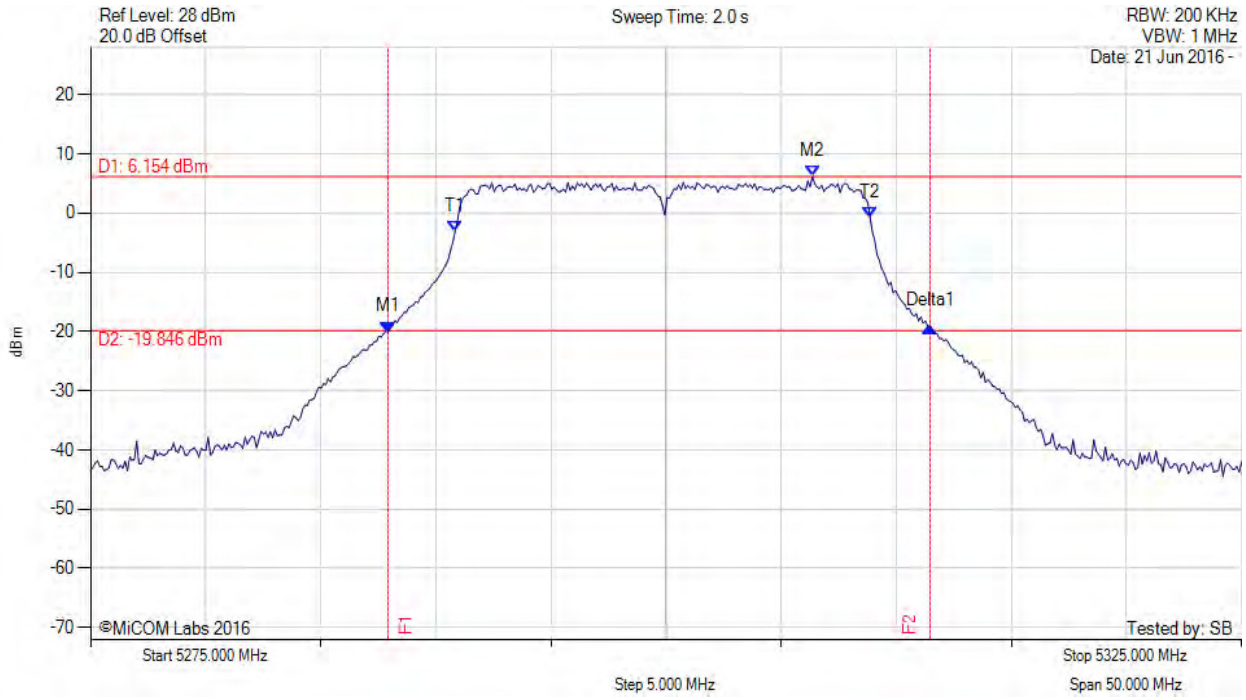


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.525 MHz : -21.237 dBm M2 : 5296.443 MHz : 5.373 dBm Delta1 : 24.148 MHz : 0.193 dB T1 : 5290.932 MHz : -2.221 dBm T2 : 5308.868 MHz : -1.969 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.148 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

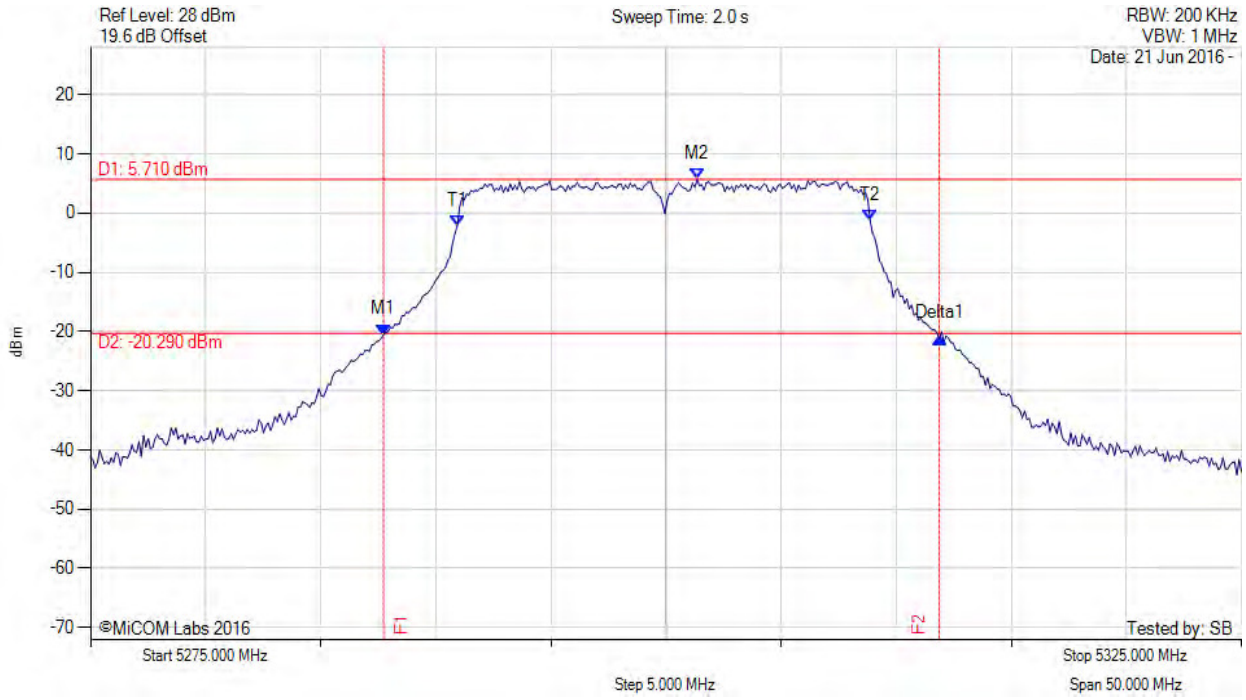


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.926 MHz : -20.043 dBm M2 : 5306.363 MHz : 6.154 dBm Delta1 : 23.547 MHz : 0.936 dB T1 : 5290.832 MHz : -3.183 dBm T2 : 5308.868 MHz : -0.804 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

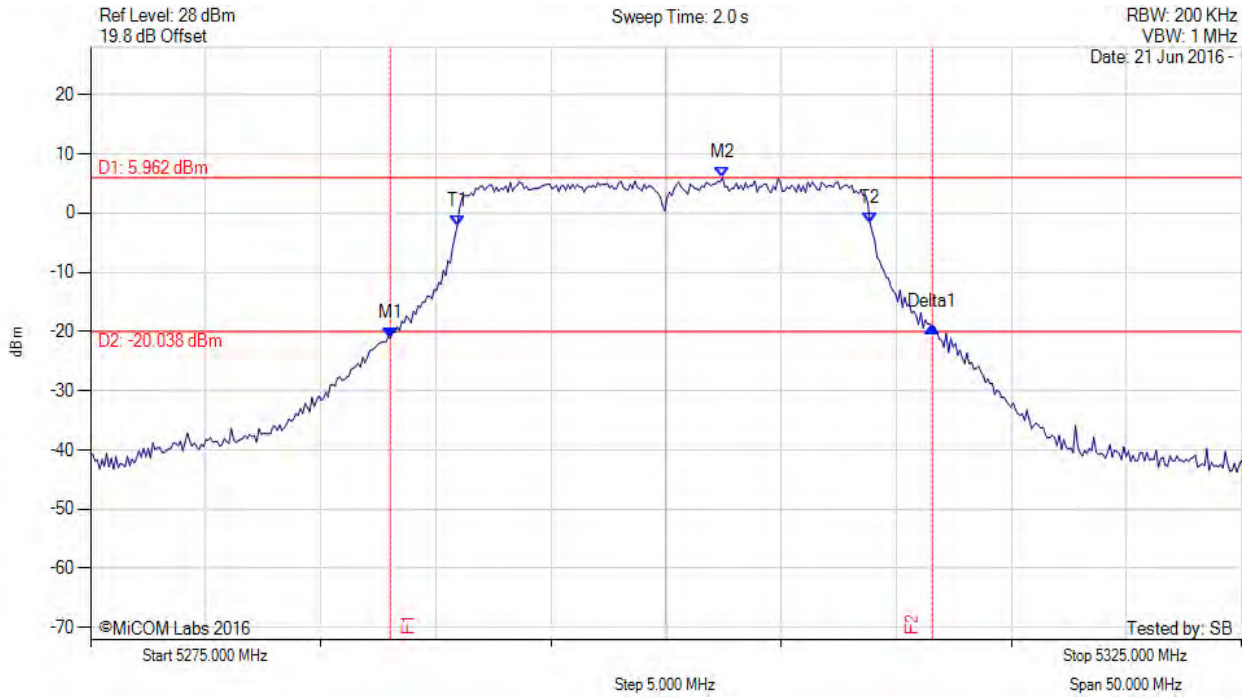


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.725 MHz : -20.529 dBm M2 : 5301.353 MHz : 5.710 dBm Delta1 : 24.148 MHz : -0.553 dB T1 : 5290.932 MHz : -2.234 dBm T2 : 5308.868 MHz : -1.186 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.148 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

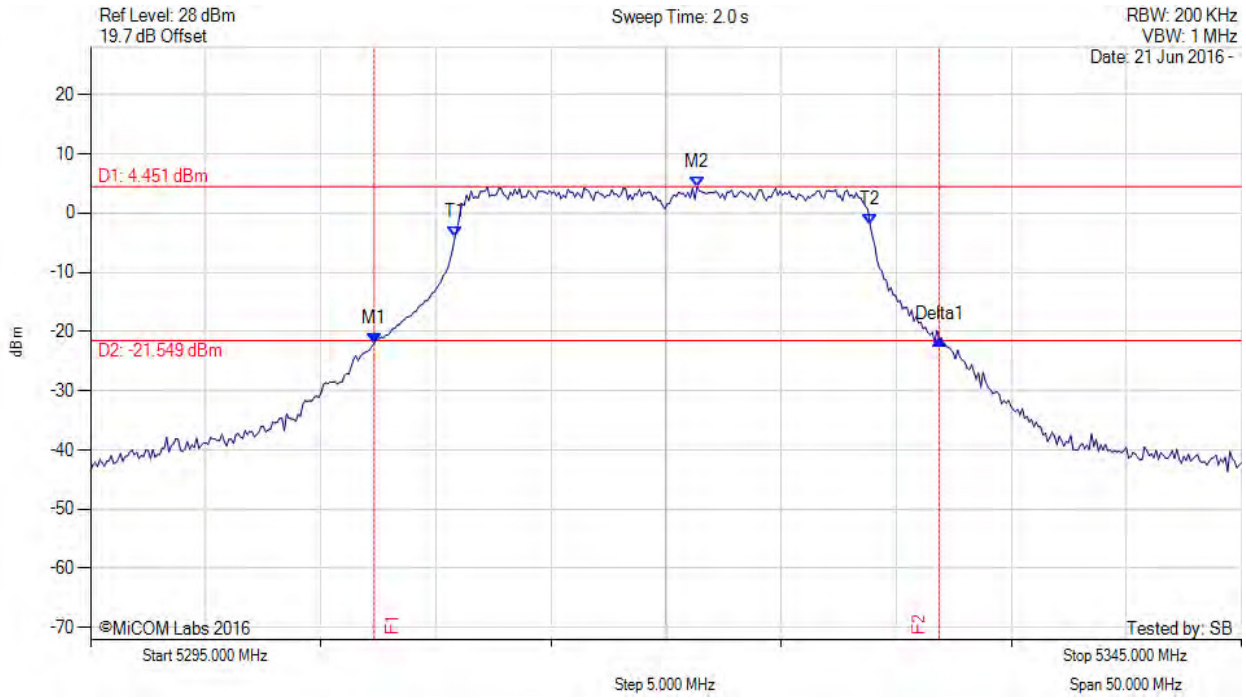


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.026 MHz : -21.013 dBm M2 : 5302.455 MHz : 5.962 dBm Delta1 : 23.547 MHz : 1.816 dB T1 : 5290.932 MHz : -2.138 dBm T2 : 5308.868 MHz : -1.768 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

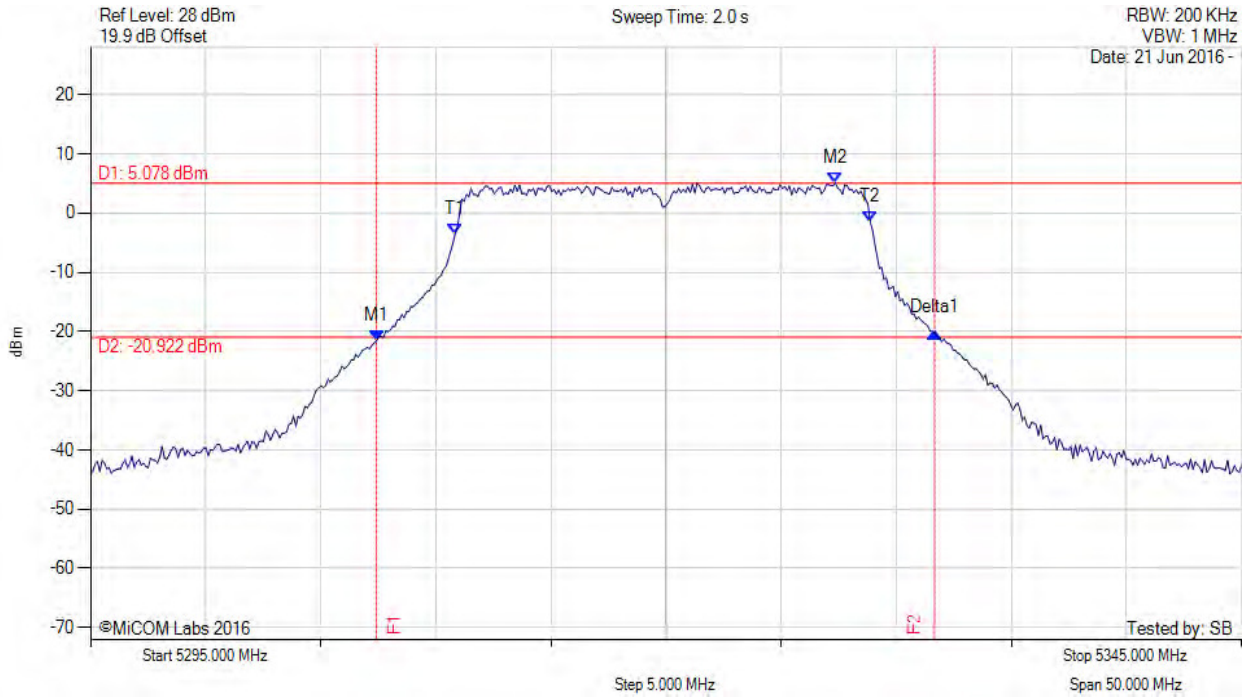


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.325 MHz : -21.975 dBm M2 : 5321.353 MHz : 4.451 dBm Delta1 : 24.549 MHz : 0.624 dB T1 : 5310.832 MHz : -4.070 dBm T2 : 5328.868 MHz : -2.006 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 24.549 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

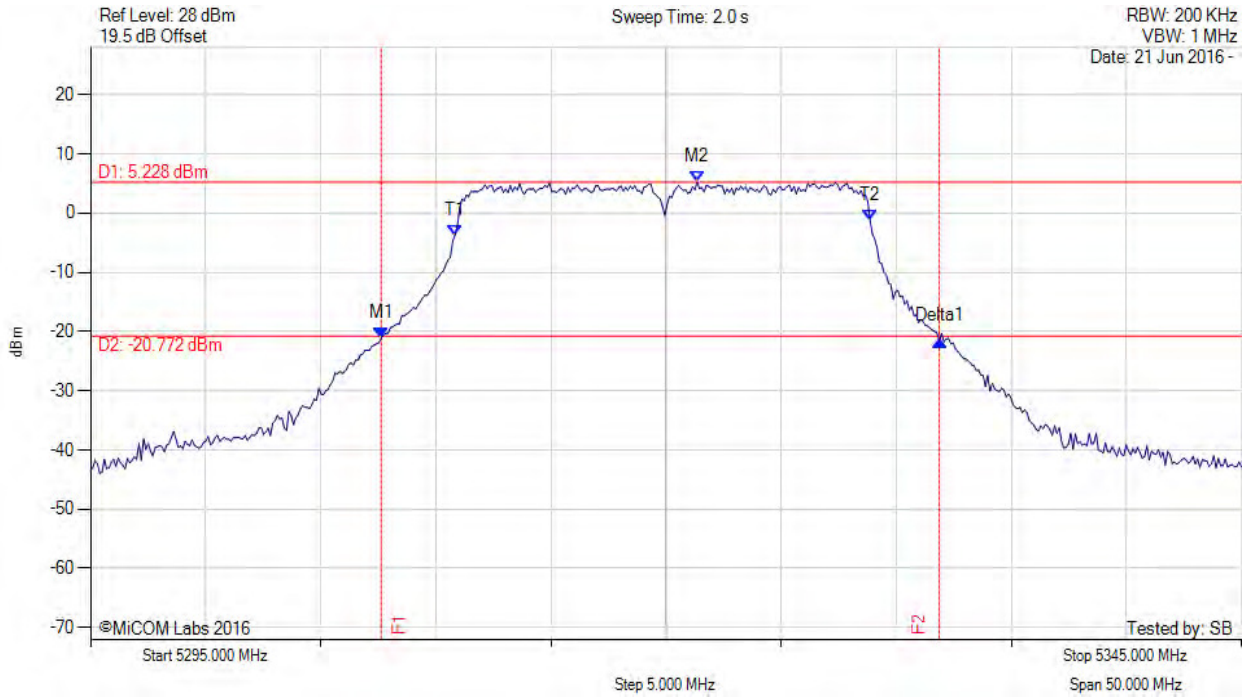


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.425 MHz : -21.593 dBm M2 : 5327.365 MHz : 5.078 dBm Delta1 : 24.248 MHz : 1.485 dB T1 : 5310.832 MHz : -3.572 dBm T2 : 5328.868 MHz : -1.375 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 24.248 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

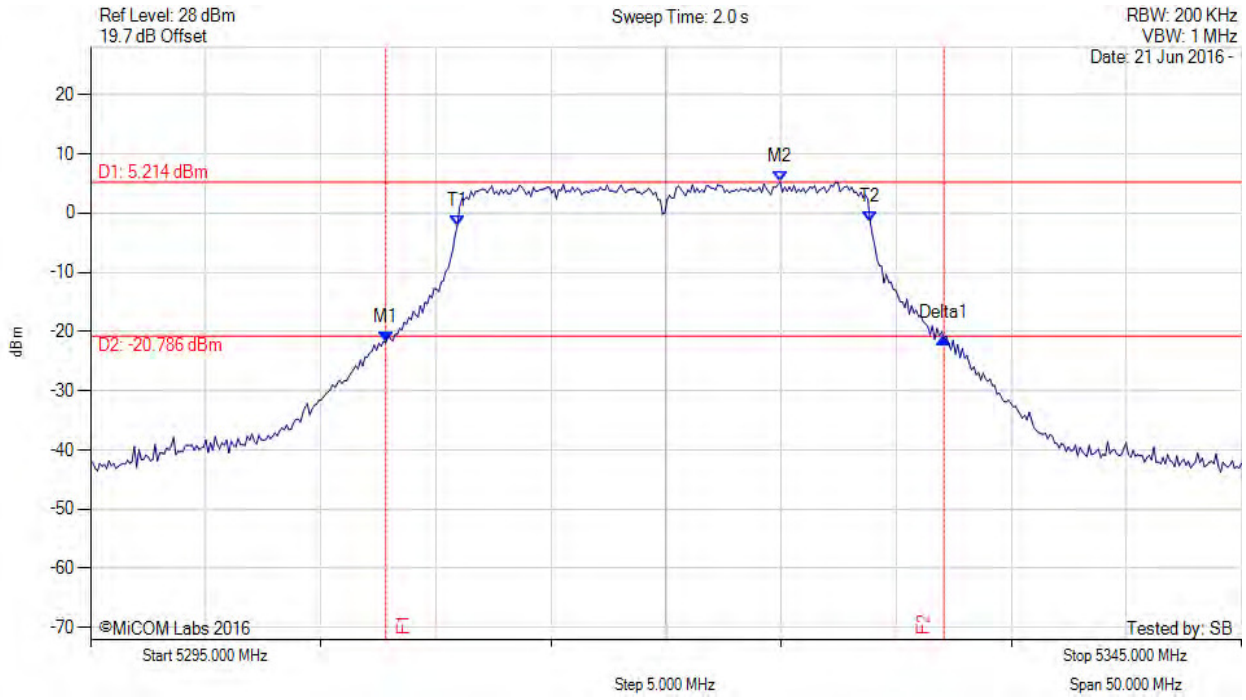


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.625 MHz : -21.174 dBm M2 : 5321.353 MHz : 5.228 dBm Delta1 : 24.248 MHz : -0.368 dB T1 : 5310.832 MHz : -3.722 dBm T2 : 5328.868 MHz : -1.339 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 24.248 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

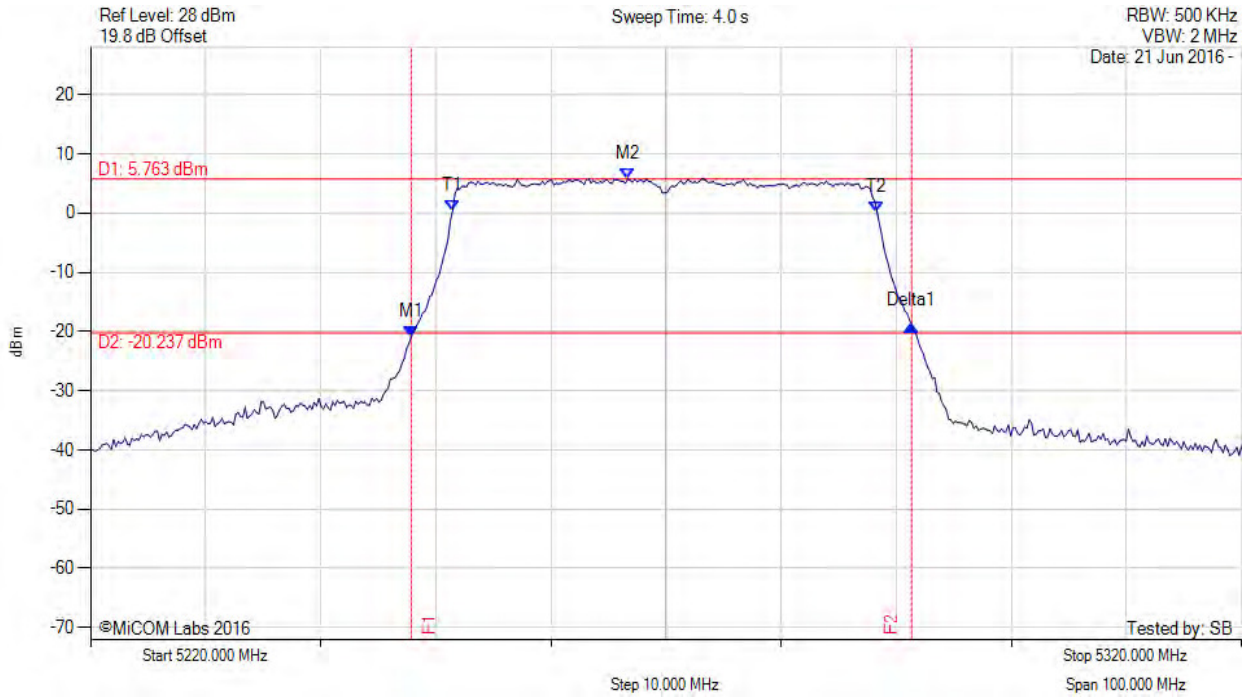


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.826 MHz : -21.835 dBm M2 : 5324.960 MHz : 5.214 dBm Delta1 : 24.248 MHz : 0.789 dB T1 : 5310.932 MHz : -2.215 dBm T2 : 5328.868 MHz : -1.414 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.248 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

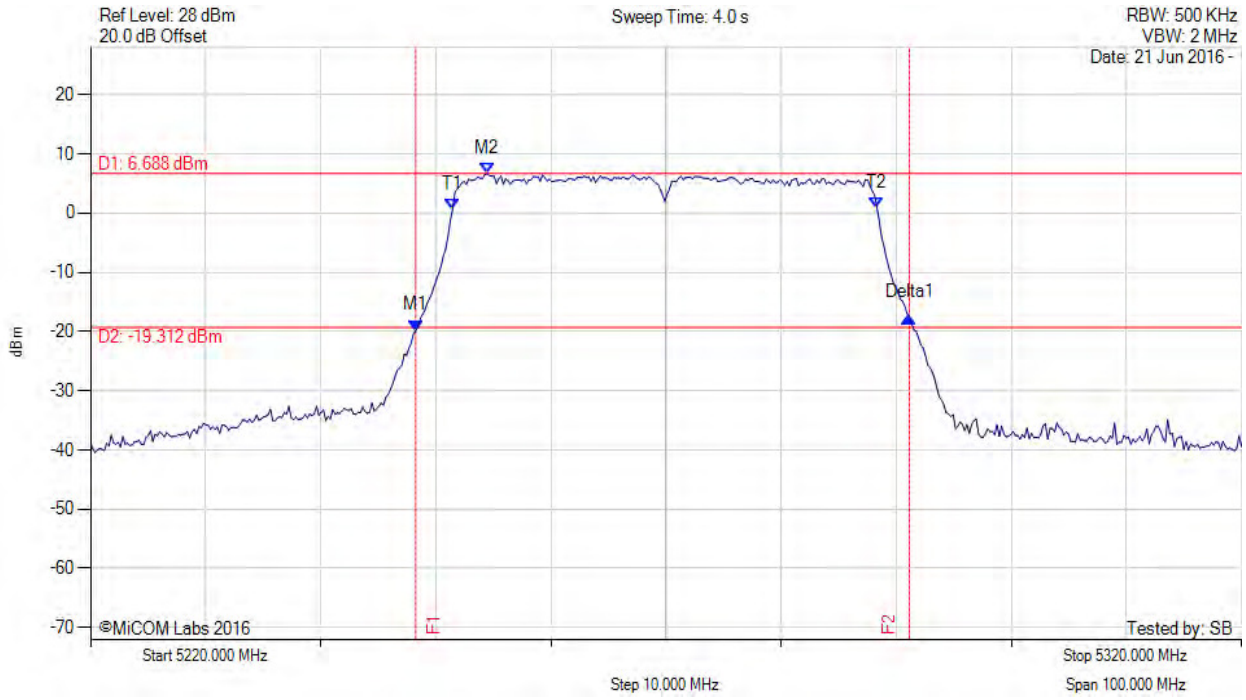


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.856 MHz : -20.808 dBm M2 : 5266.693 MHz : 5.763 dBm Delta1 : 43.487 MHz : 1.836 dB T1 : 5251.463 MHz : 0.449 dBm T2 : 5288.337 MHz : 0.241 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

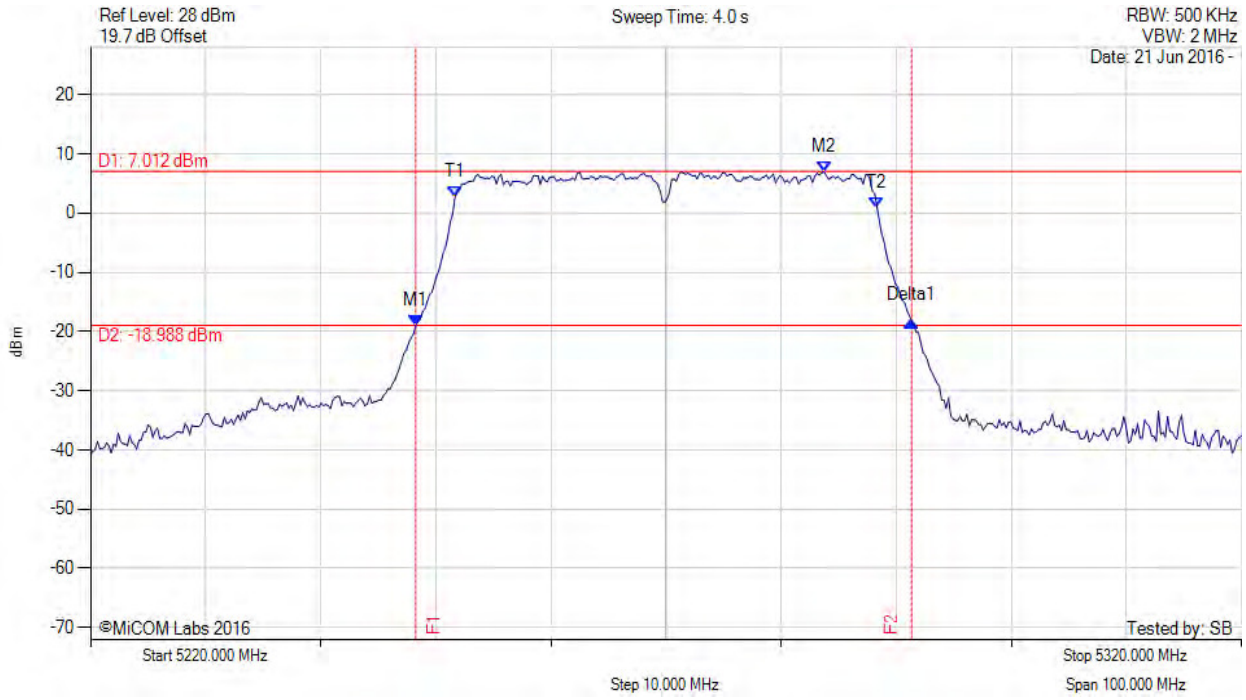


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.257 MHz : -19.809 dBm M2 : 5254.469 MHz : 6.688 dBm Delta1 : 42.886 MHz : 2.117 dB T1 : 5251.463 MHz : 0.687 dBm T2 : 5288.337 MHz : 0.847 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 42.886 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

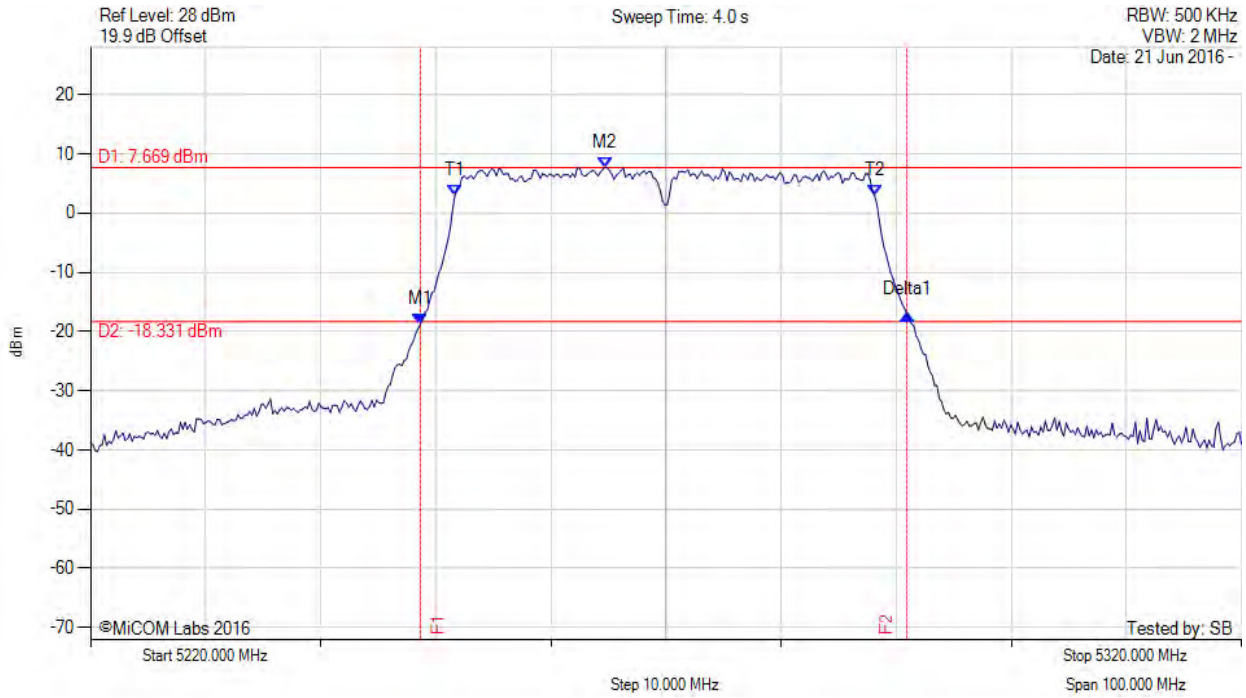


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.257 MHz : -19.071 dBm M2 : 5283.727 MHz : 7.012 dBm Delta1 : 43.086 MHz : 0.887 dB T1 : 5251.663 MHz : 2.678 dBm T2 : 5288.337 MHz : 0.945 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

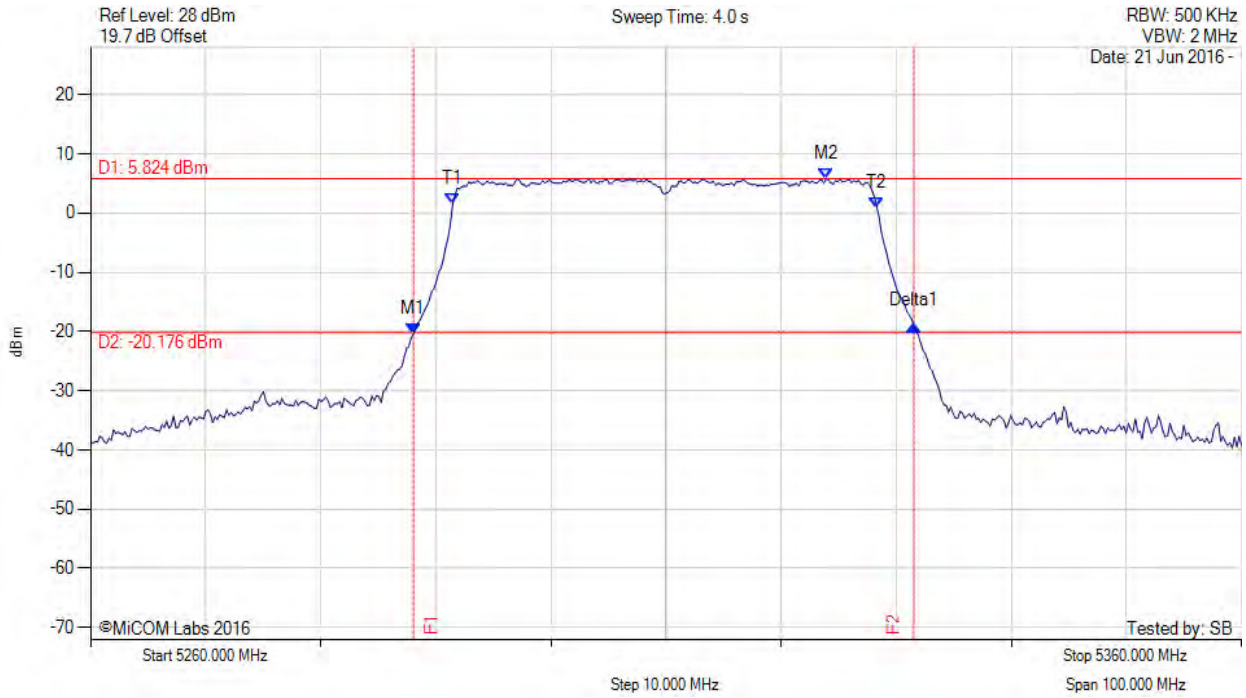


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.657 MHz : -18.754 dBm M2 : 5264.689 MHz : 7.669 dBm Delta1 : 42.285 MHz : 1.674 dB T1 : 5251.663 MHz : 2.981 dBm T2 : 5288.136 MHz : 2.930 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 42.285 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

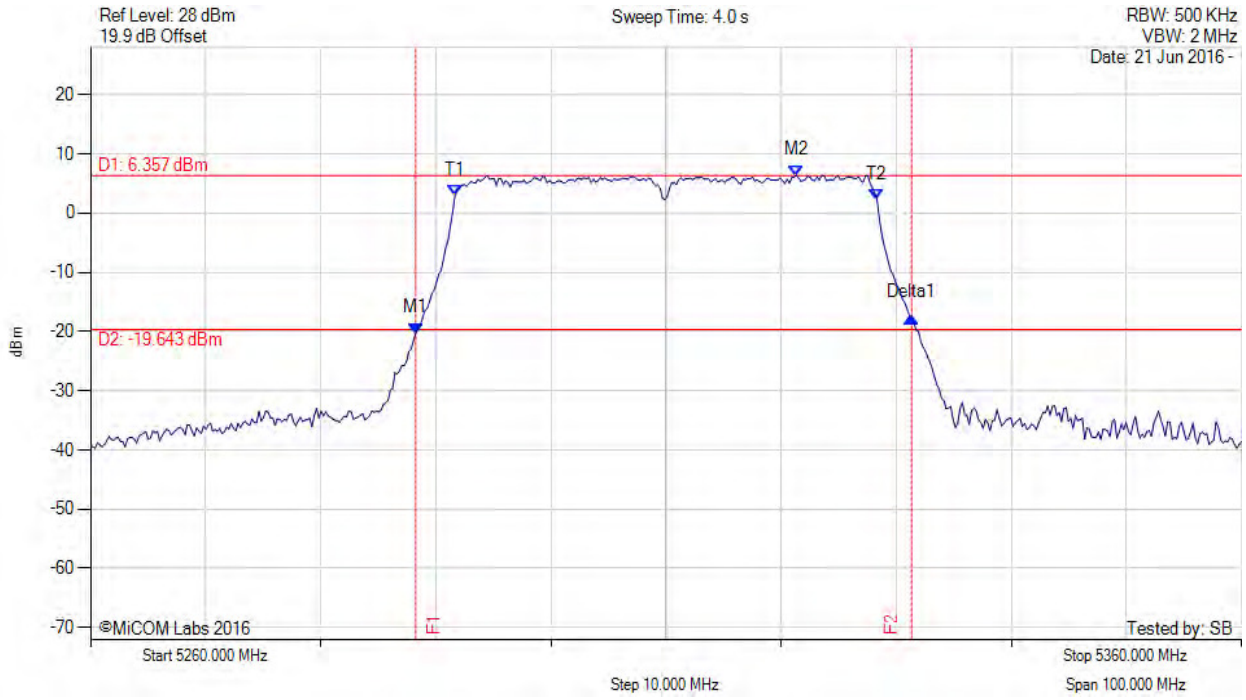


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.056 MHz : -20.432 dBm M2 : 5323.928 MHz : 5.824 dBm Delta1 : 43.487 MHz : 1.375 dB T1 : 5291.463 MHz : 1.510 dBm T2 : 5328.337 MHz : 0.827 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

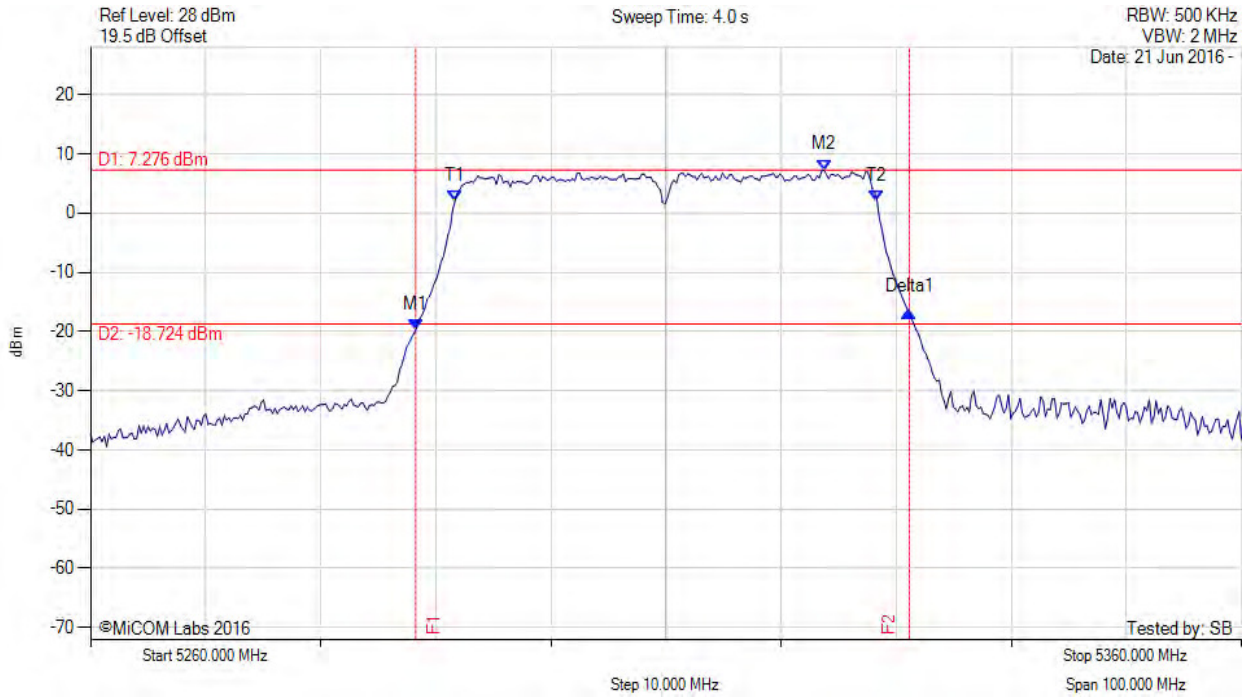


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.257 MHz : -20.291 dBm M2 : 5321.323 MHz : 6.357 dBm Delta1 : 43.086 MHz : 2.774 dB T1 : 5291.663 MHz : 2.895 dBm T2 : 5328.337 MHz : 2.196 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

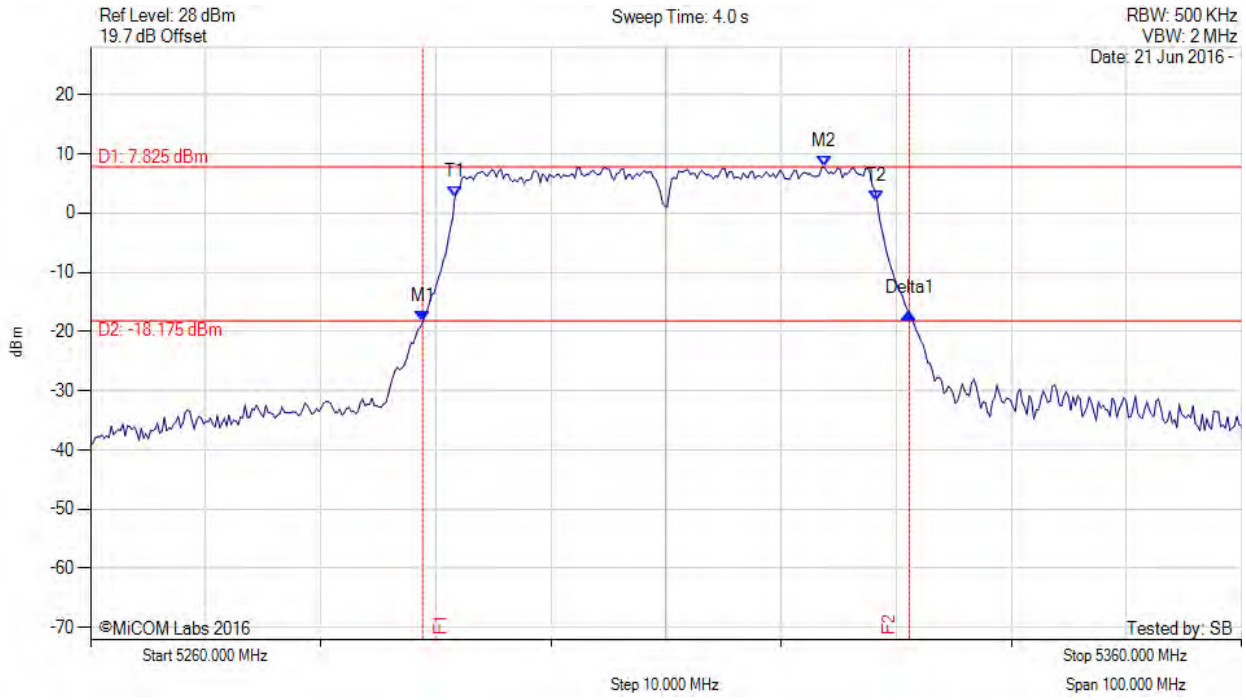


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.257 MHz : -19.767 dBm M2 : 5323.727 MHz : 7.276 dBm Delta1 : 42.886 MHz : 3.087 dB T1 : 5291.663 MHz : 2.023 dBm T2 : 5328.337 MHz : 2.127 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 42.886 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

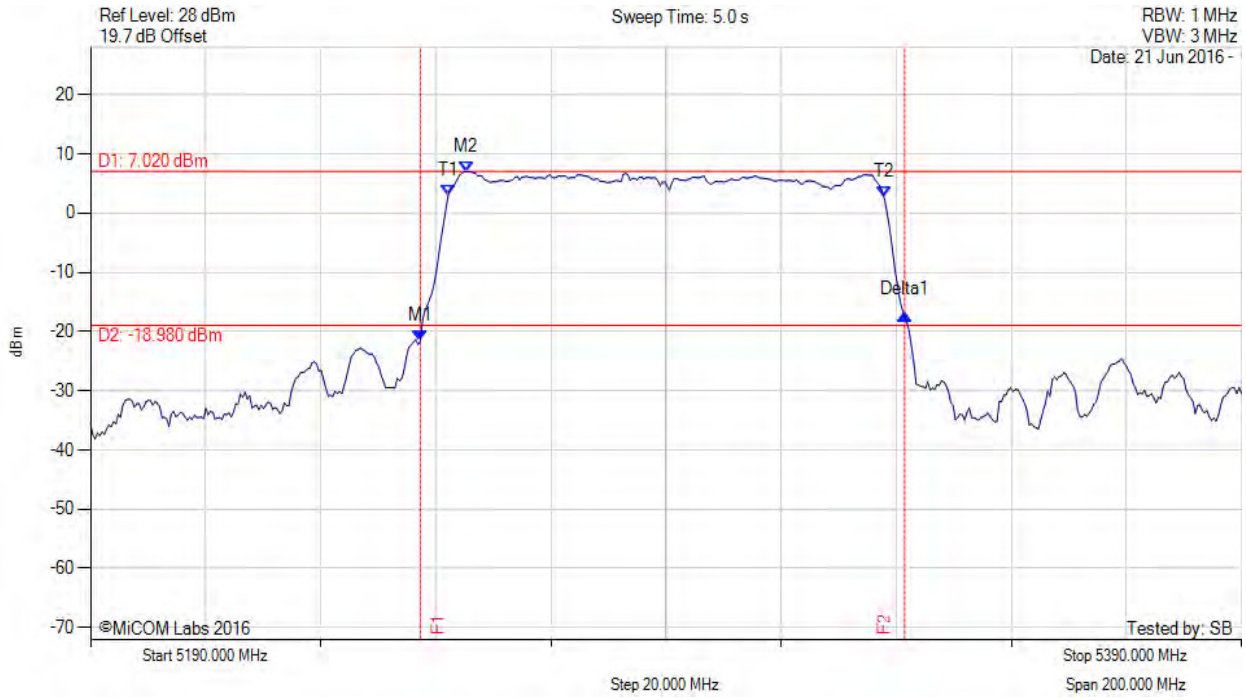


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.858 MHz : -18.373 dBm M2 : 5323.727 MHz : 7.825 dBm Delta1 : 42.285 MHz : 1.513 dB T1 : 5291.663 MHz : 2.767 dBm T2 : 5328.337 MHz : 2.100 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 42.285 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

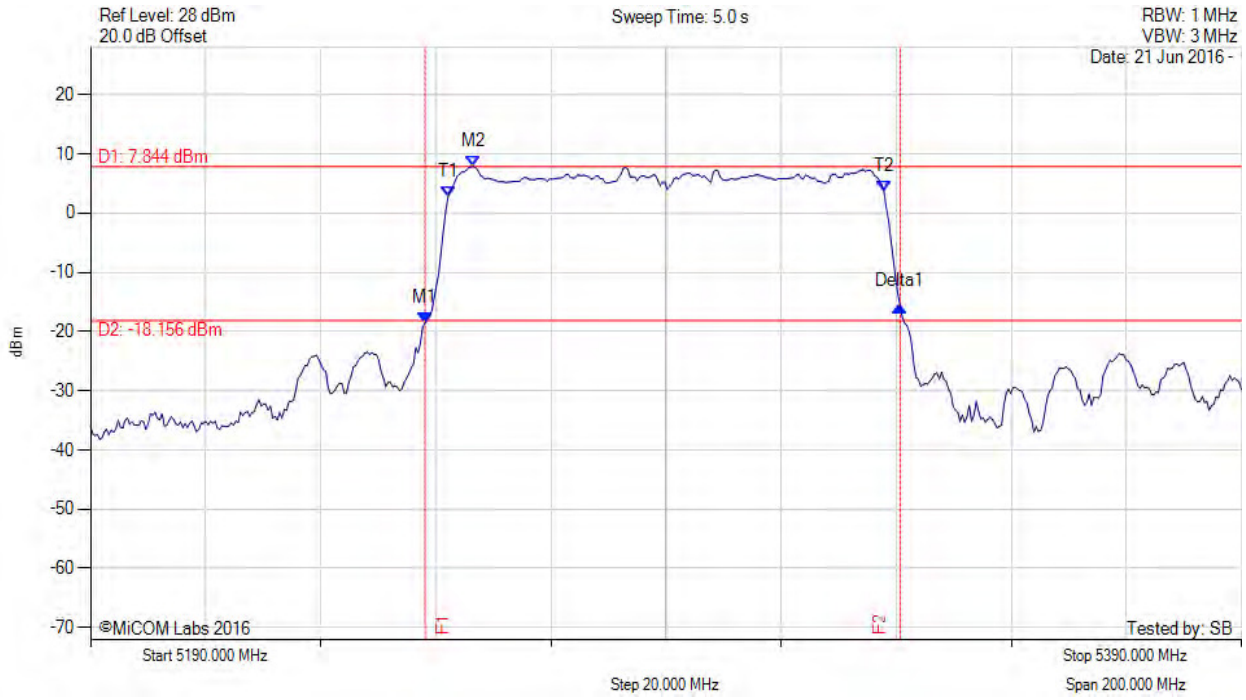


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.315 MHz : -21.562 dBm M2 : 5255.331 MHz : 7.020 dBm Delta1 : 84.168 MHz : 4.332 dB T1 : 5252.124 MHz : 2.902 dBm T2 : 5327.876 MHz : 2.721 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 84.168 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

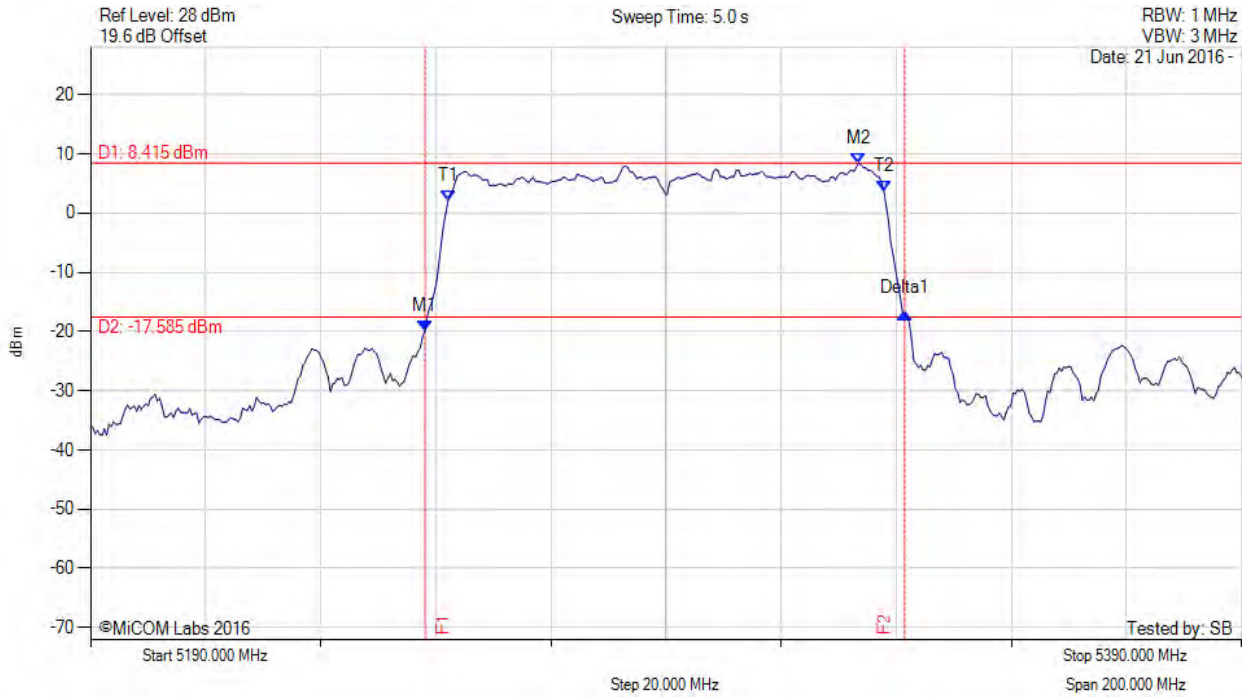


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.116 MHz : -18.569 dBm M2 : 5256.533 MHz : 7.844 dBm Delta1 : 82.565 MHz : 2.857 dB T1 : 5252.124 MHz : 2.800 dBm T2 : 5327.876 MHz : 3.666 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 82.565 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

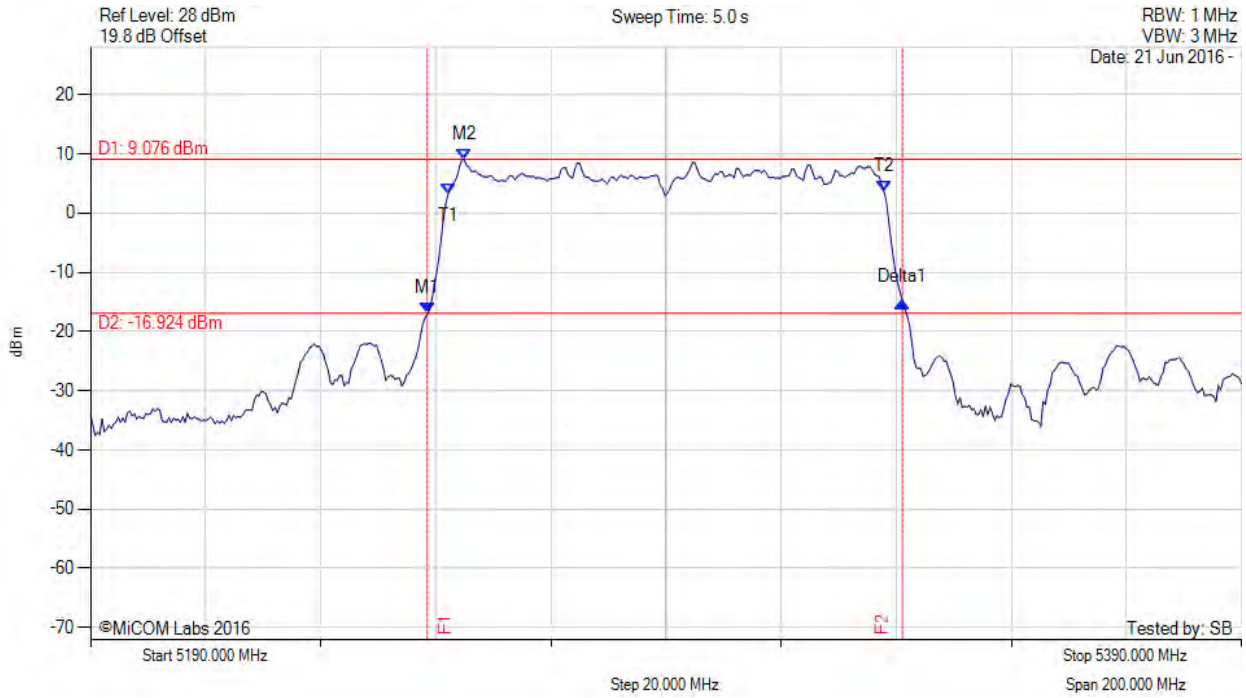


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.116 MHz : -19.838 dBm M2 : 5323.467 MHz : 8.415 dBm Delta1 : 83.367 MHz : 2.864 dB T1 : 5252.124 MHz : 2.025 dBm T2 : 5327.876 MHz : 3.628 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 83.367 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

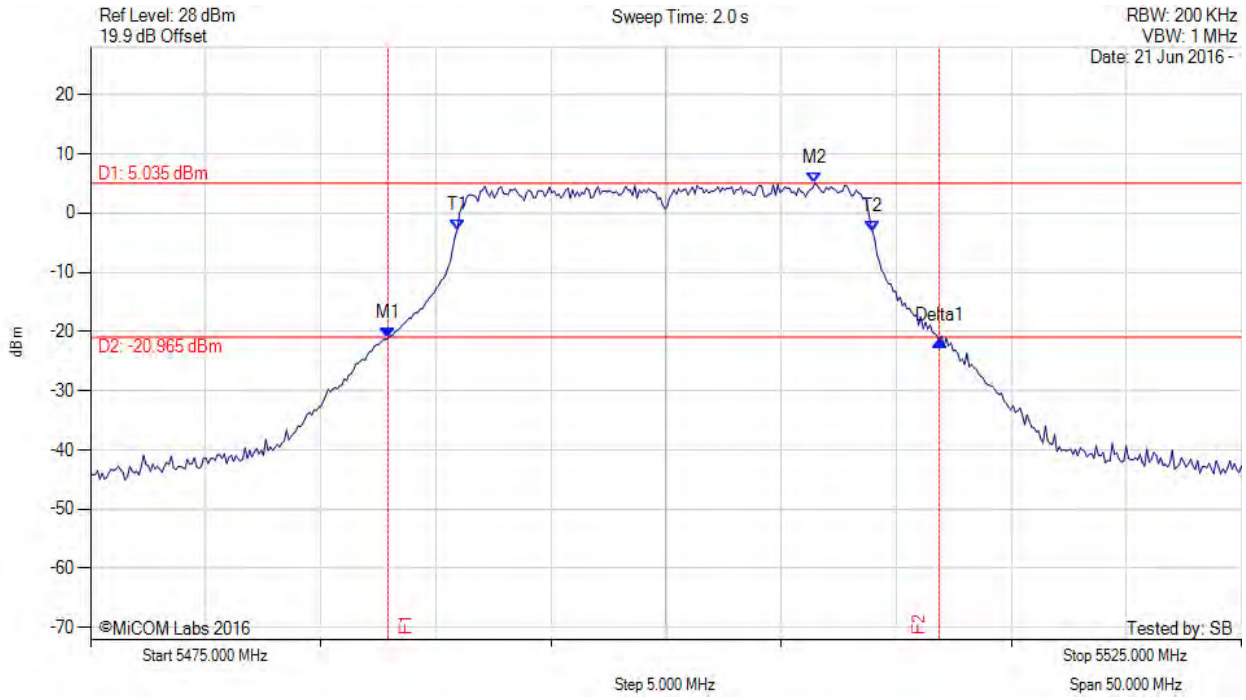


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.517 MHz : -16.988 dBm M2 : 5254.930 MHz : 9.076 dBm Delta1 : 82.565 MHz : 2.007 dB T1 : 5252.124 MHz : 3.166 dBm T2 : 5327.876 MHz : 3.715 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 82.565 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

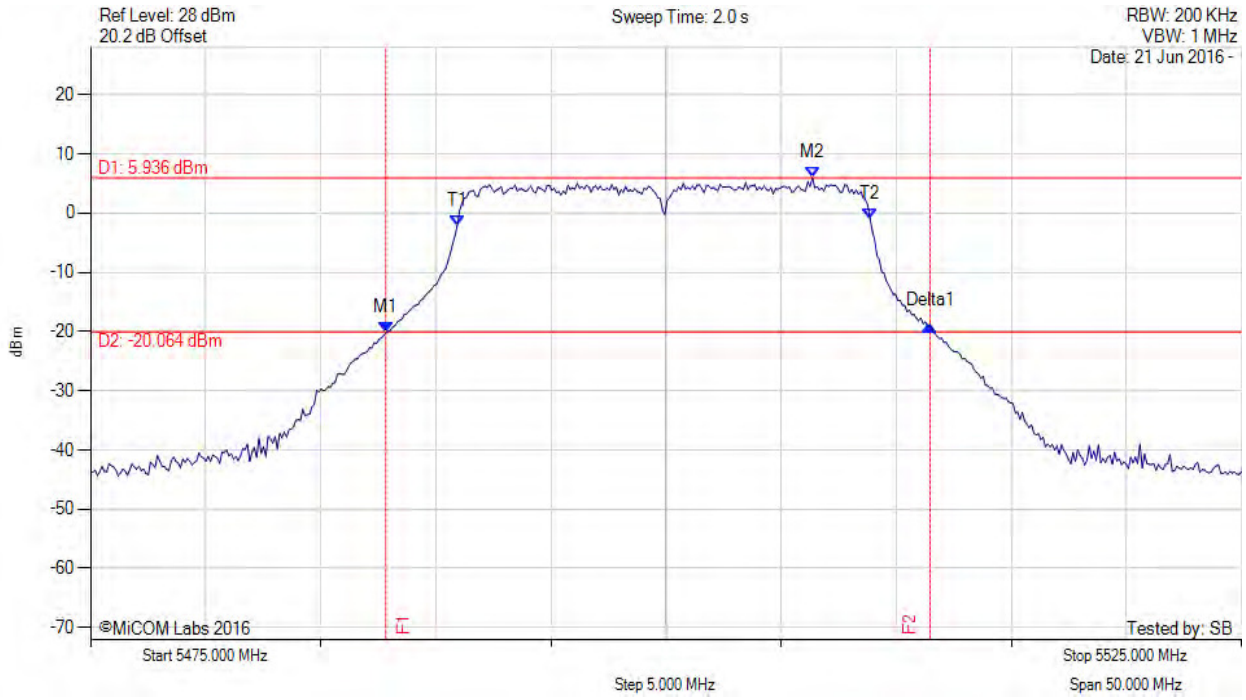


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.926 MHz : -21.196 dBm M2 : 5506.463 MHz : 5.035 dBm Delta1 : 23.948 MHz : -0.350 dB T1 : 5490.932 MHz : -2.795 dBm T2 : 5508.968 MHz : -3.029 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.948 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

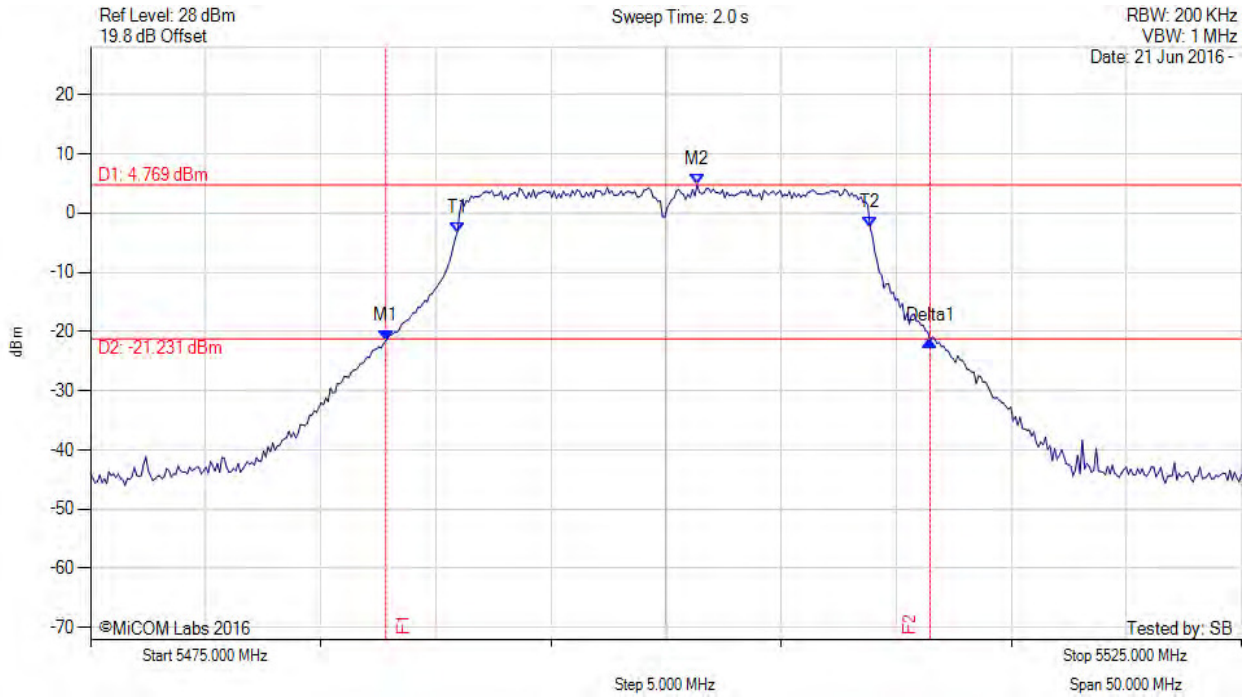


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.826 MHz : -20.224 dBm M2 : 5506.363 MHz : 5.936 dBm Delta1 : 23.647 MHz : 1.216 dB T1 : 5490.932 MHz : -2.140 dBm T2 : 5508.868 MHz : -1.017 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.647 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

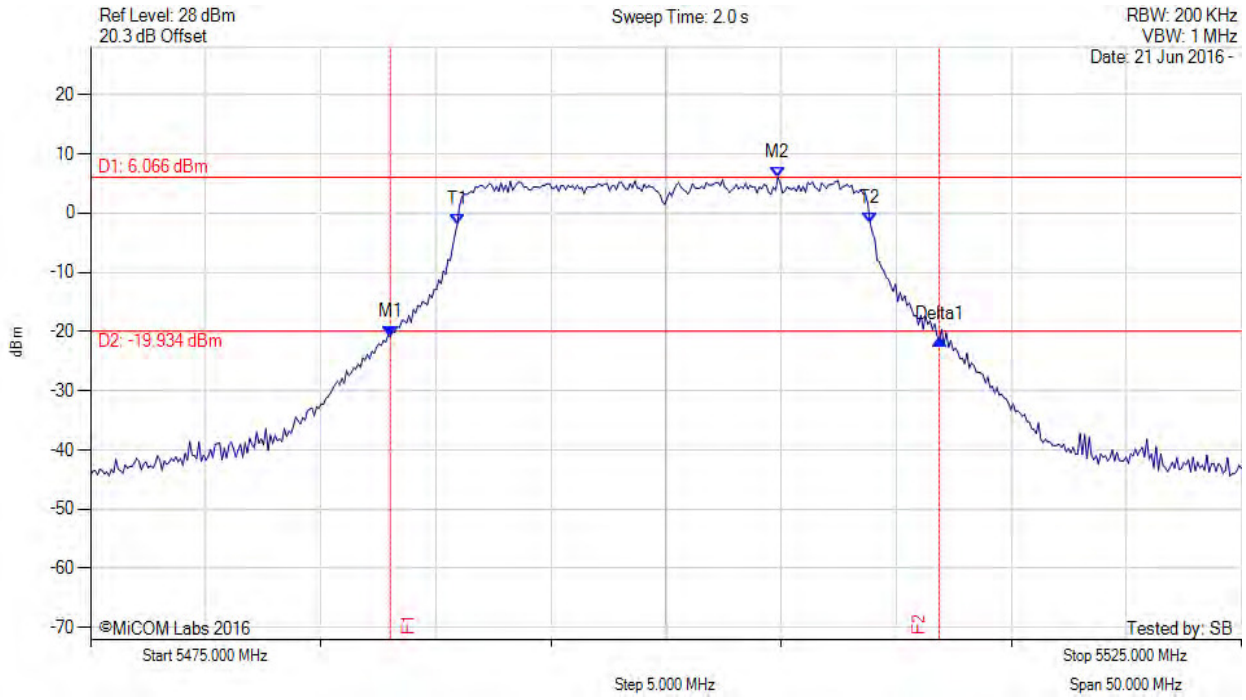


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.826 MHz : -21.573 dBm M2 : 5501.353 MHz : 4.769 dBm Delta1 : 23.647 MHz : -0.035 dB T1 : 5490.932 MHz : -3.301 dBm T2 : 5508.868 MHz : -2.451 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.647 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

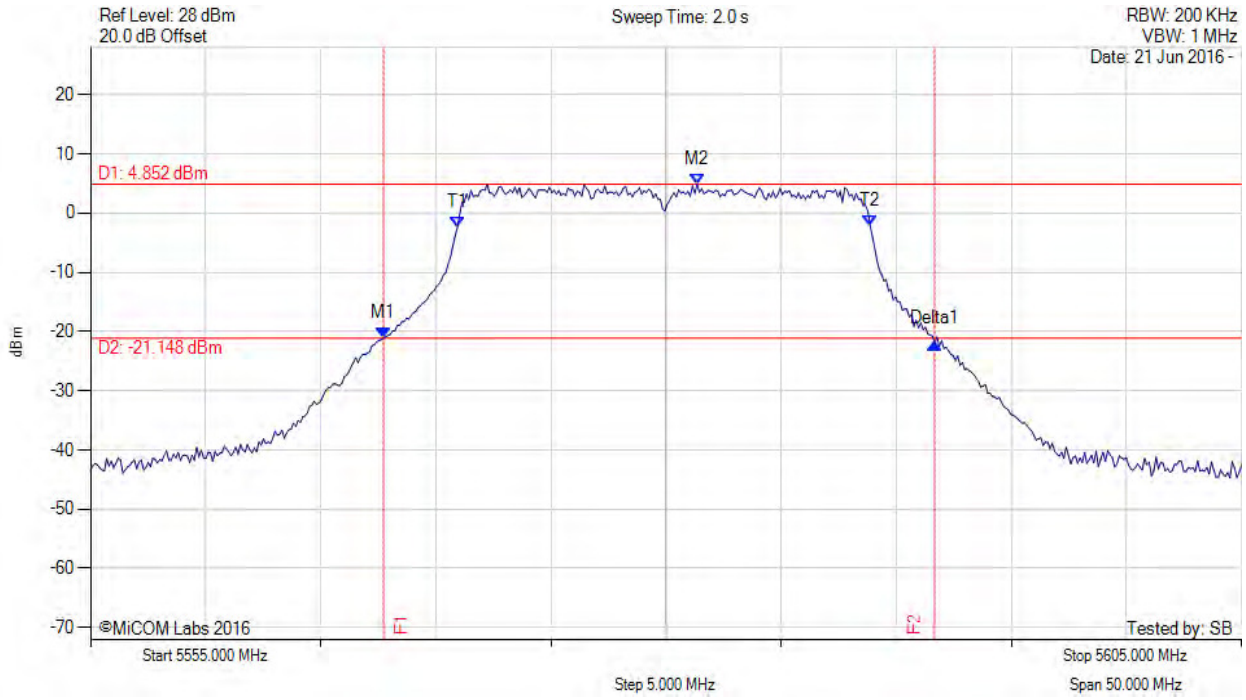


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.026 MHz : -20.824 dBm M2 : 5504.860 MHz : 6.066 dBm Delta1 : 23.848 MHz : -0.515 dB T1 : 5490.932 MHz : -1.855 dBm T2 : 5508.868 MHz : -1.630 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

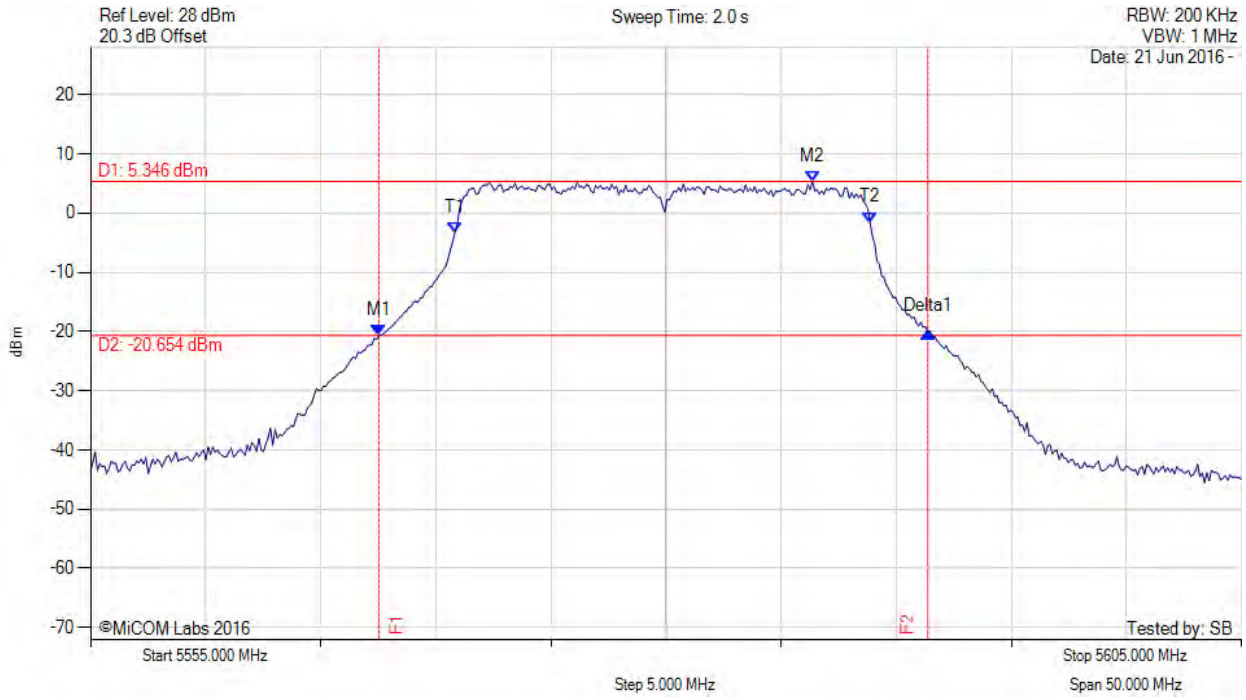


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5567.725 MHz : -21.158 dBm M2 : 5581.353 MHz : 4.852 dBm Delta1 : 23.948 MHz : -0.826 dB T1 : 5570.932 MHz : -2.492 dBm T2 : 5588.868 MHz : -2.101 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.948 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

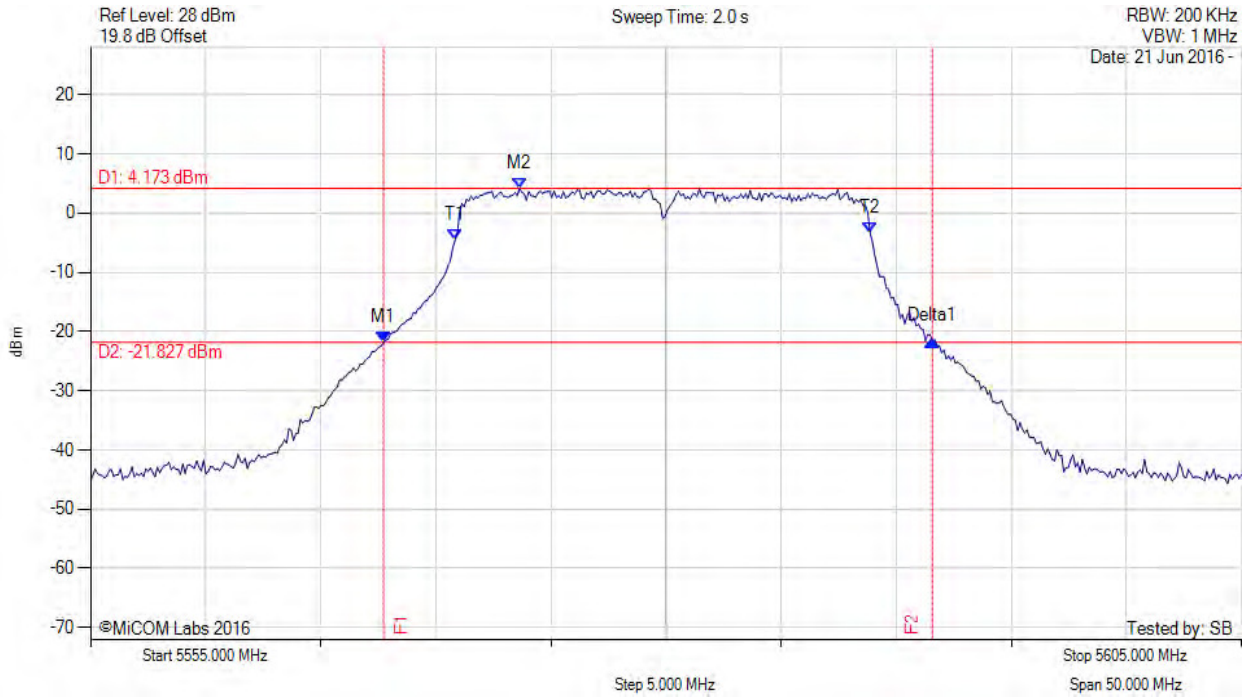


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5567.525 MHz : -20.676 dBm M2 : 5586.363 MHz : 5.346 dBm Delta1 : 23.848 MHz : 0.620 dB T1 : 5570.832 MHz : -3.253 dBm T2 : 5588.868 MHz : -1.603 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

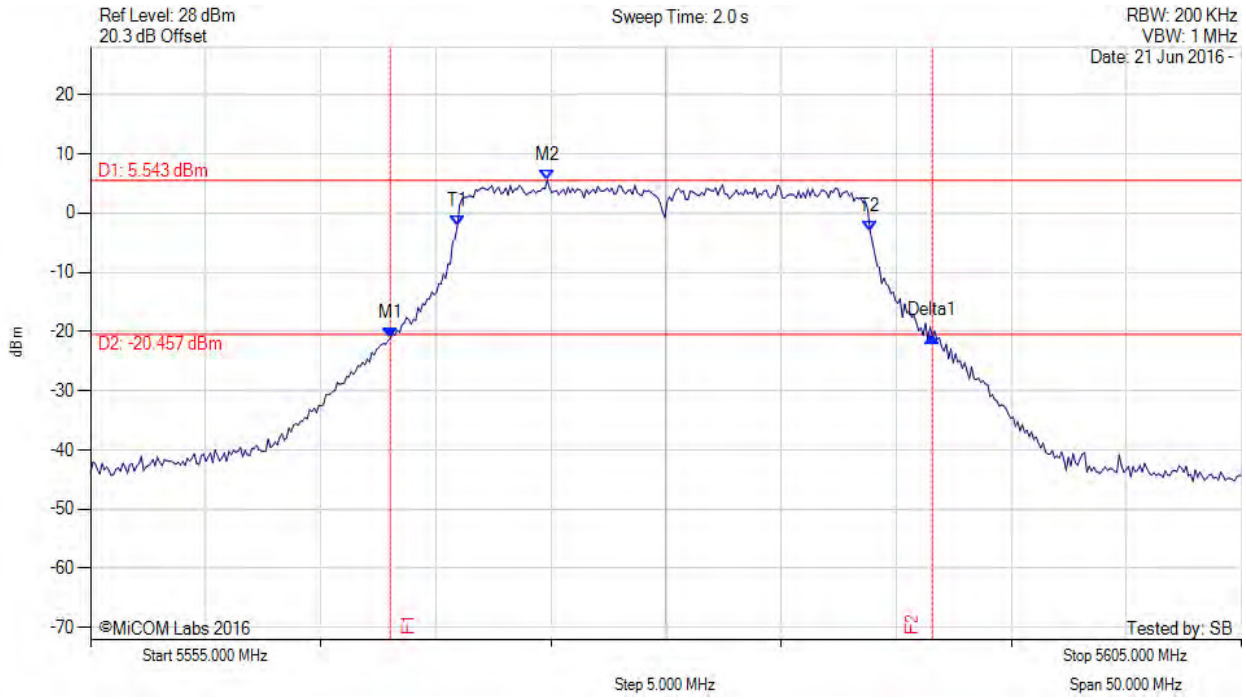


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5567.725 MHz : -21.898 dBm M2 : 5573.637 MHz : 4.173 dBm Delta1 : 23.848 MHz : 0.413 dB T1 : 5570.832 MHz : -4.609 dBm T2 : 5588.868 MHz : -3.373 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

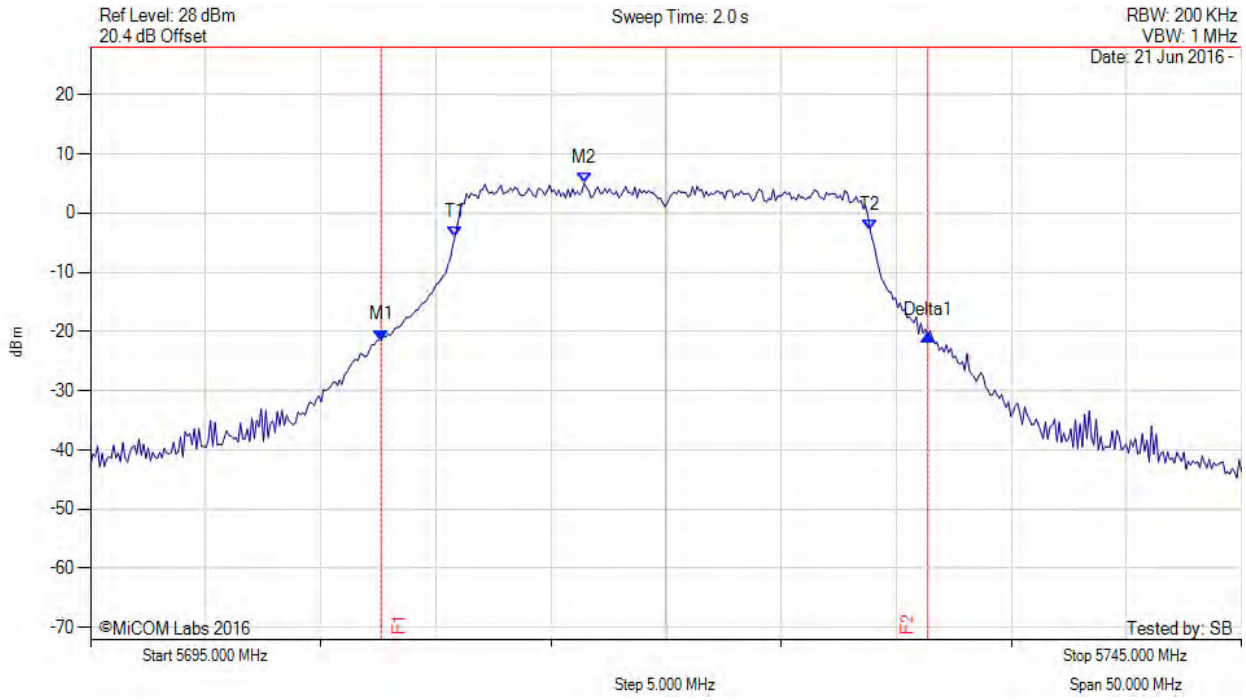


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.026 MHz : -21.131 dBm M2 : 5574.840 MHz : 5.543 dBm Delta1 : 23.547 MHz : 0.380 dB T1 : 5570.932 MHz : -2.278 dBm T2 : 5588.868 MHz : -3.088 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

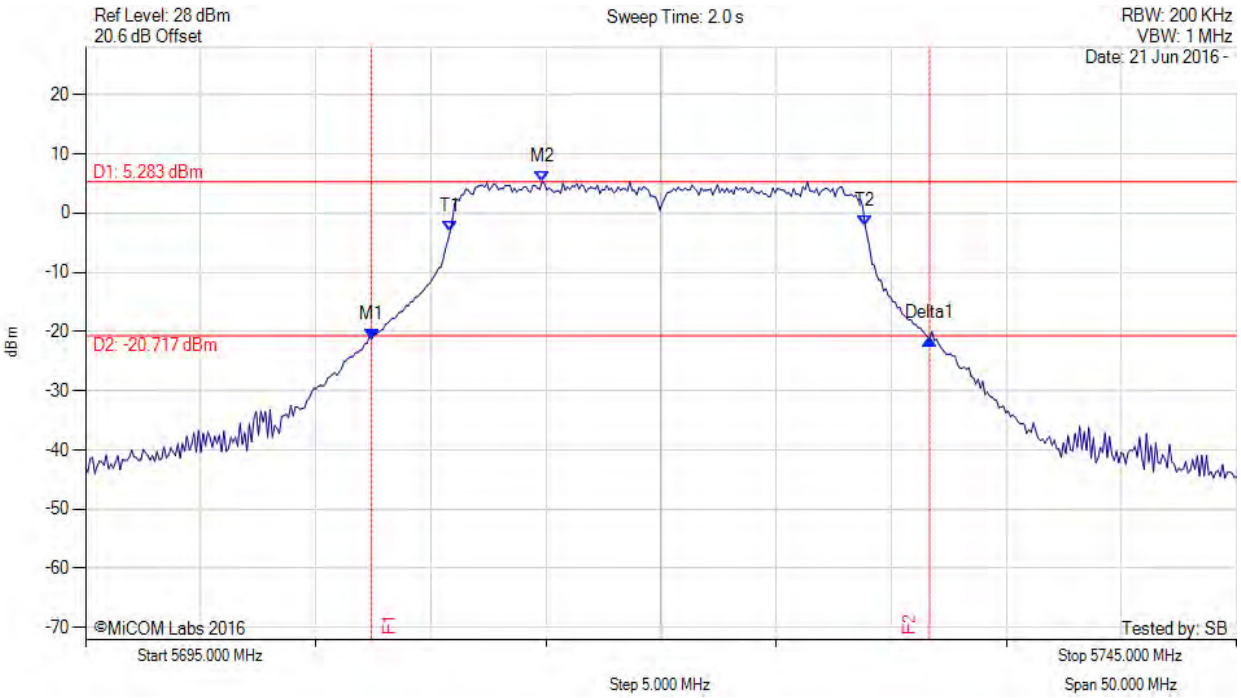


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.625 MHz : -21.467 dBm M2 : 5716.443 MHz : 5.100 dBm Delta1 : 23.747 MHz : 0.726 dB T1 : 5710.832 MHz : -4.031 dBm T2 : 5728.868 MHz : -2.931 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

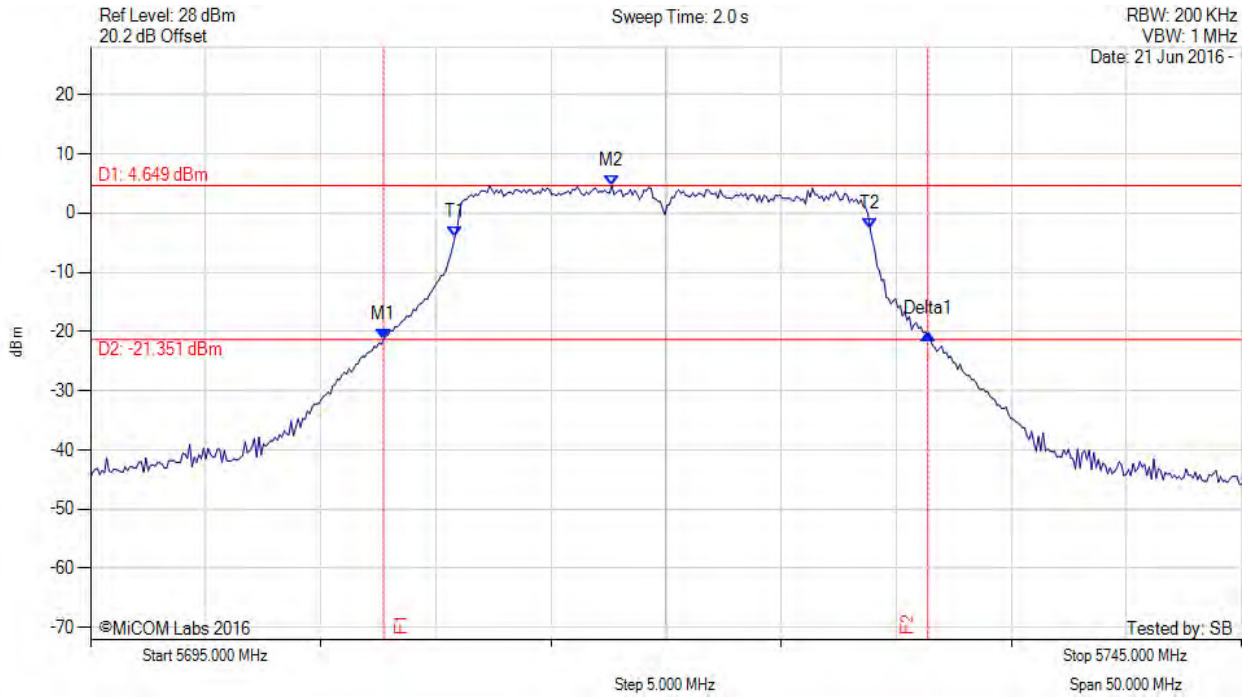


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.425 MHz : -21.243 dBm M2 : 5714.840 MHz : 5.283 dBm Delta1 : 24.248 MHz : 0.012 dB T1 : 5710.832 MHz : -3.177 dBm T2 : 5728.868 MHz : -2.106 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 24.248 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

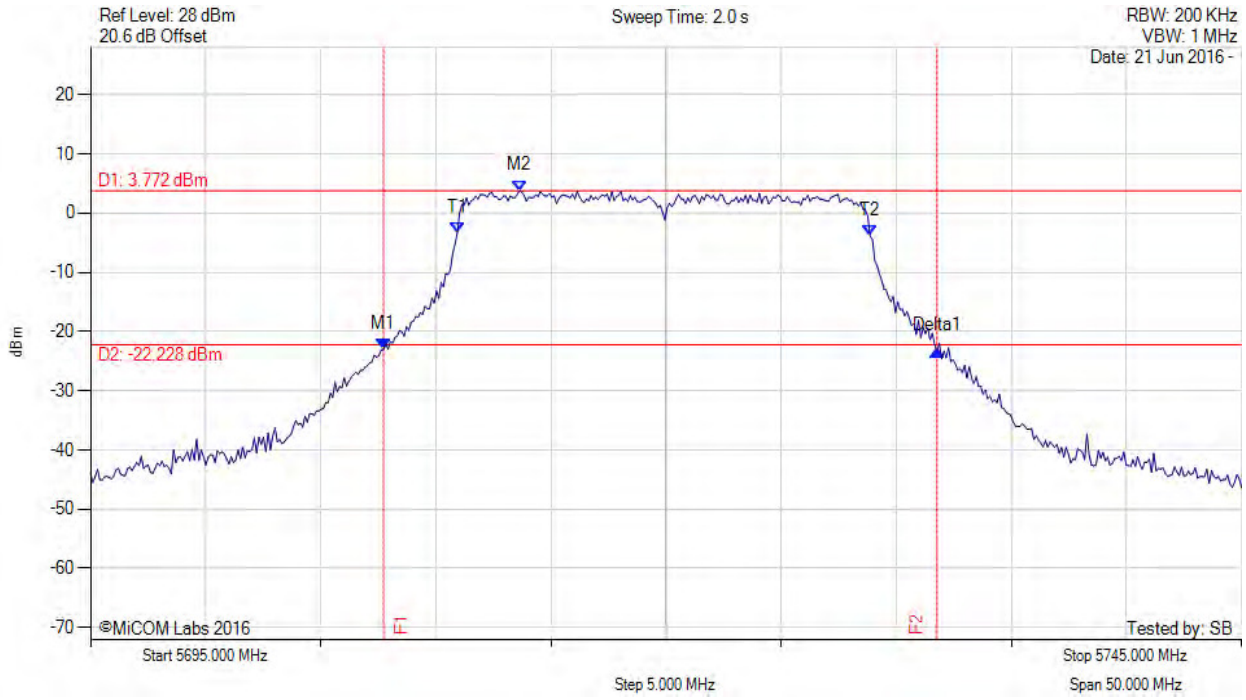


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.725 MHz : -21.392 dBm M2 : 5717.645 MHz : 4.649 dBm Delta1 : 23.647 MHz : 1.053 dB T1 : 5710.832 MHz : -4.001 dBm T2 : 5728.868 MHz : -2.659 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.647 MHz Measured 99% Bandwidth: 18.036 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

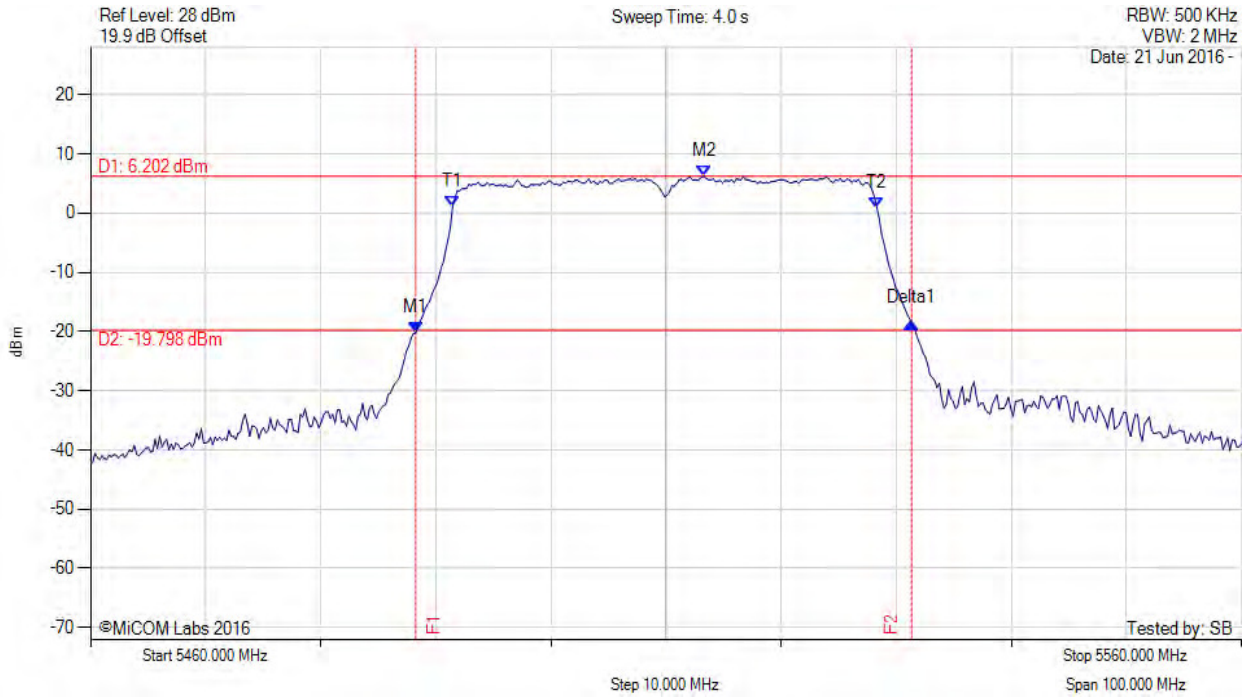


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.725 MHz : -23.014 dBm M2 : 5713.637 MHz : 3.772 dBm Delta1 : 24.048 MHz : -0.199 dB T1 : 5710.932 MHz : -3.303 dBm T2 : 5728.868 MHz : -3.893 dBm OBW : 17.936 MHz	Measured 26 dB Bandwidth: 24.048 MHz Measured 99% Bandwidth: 17.936 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

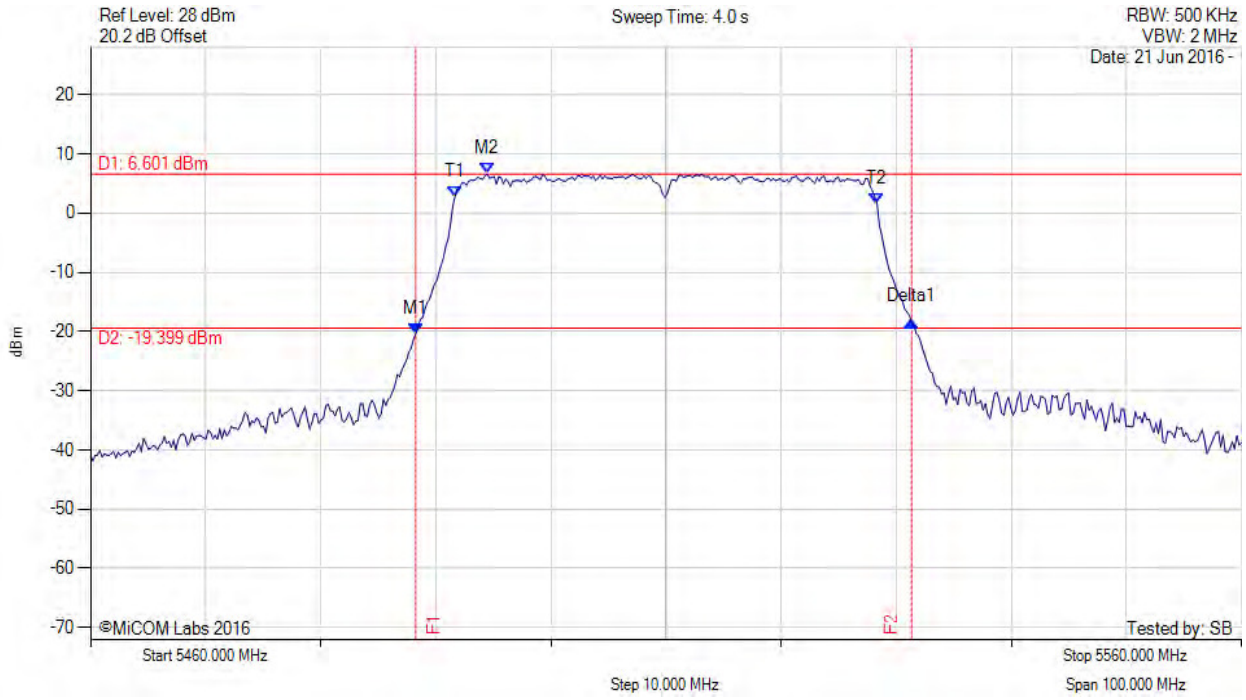


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.257 MHz : -20.226 dBm M2 : 5513.307 MHz : 6.202 dBm Delta1 : 43.086 MHz : 1.708 dB T1 : 5491.463 MHz : 1.161 dBm T2 : 5528.337 MHz : 0.799 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

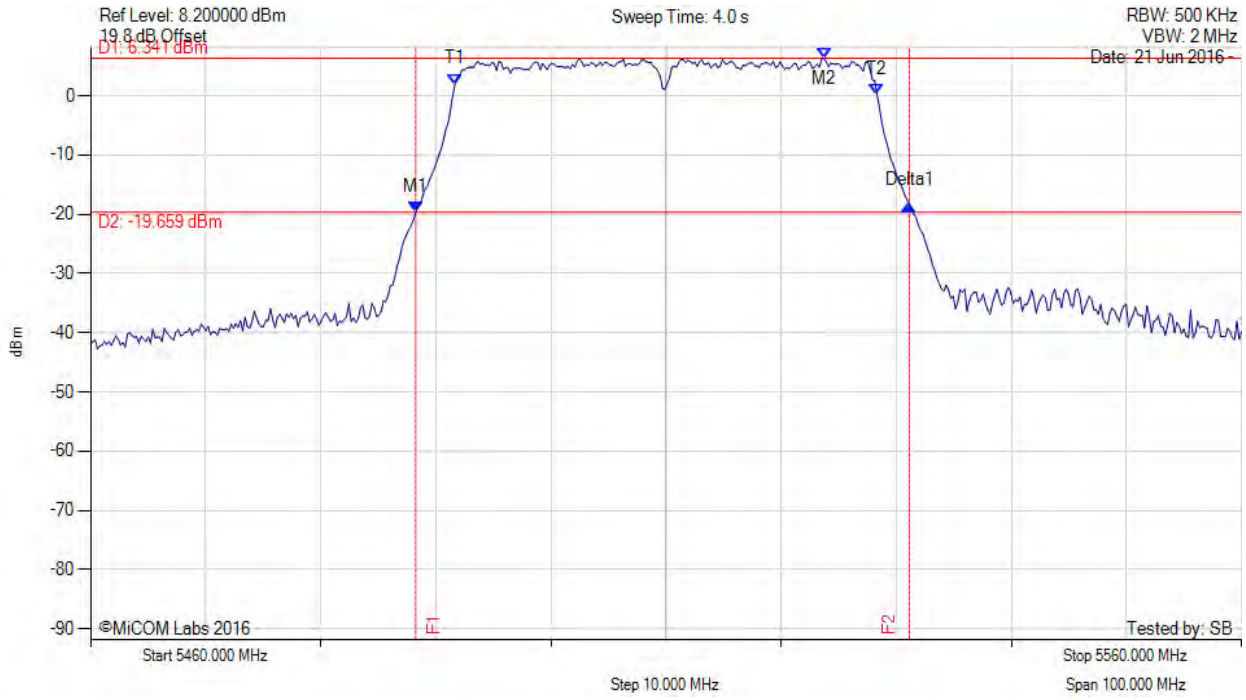


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.257 MHz : -20.365 dBm M2 : 5494.469 MHz : 6.601 dBm Delta1 : 43.086 MHz : 1.989 dB T1 : 5491.663 MHz : 2.780 dBm T2 : 5528.337 MHz : 1.639 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

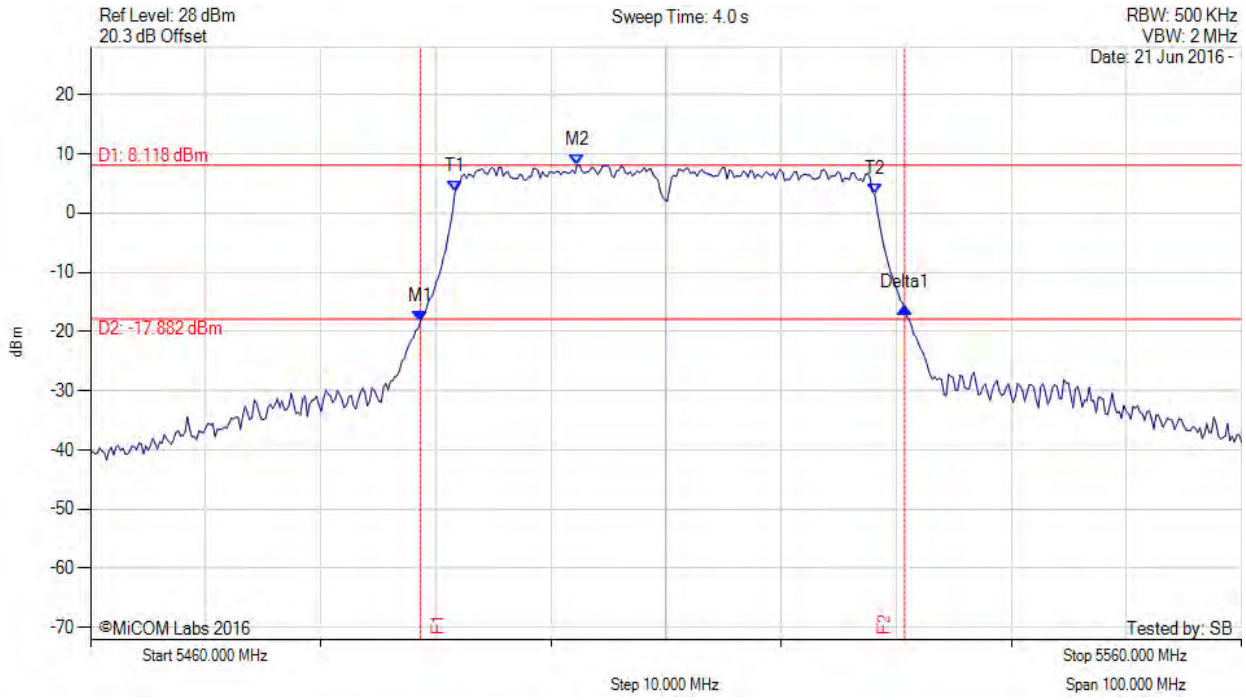


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.257 MHz : -19.665 dBm M2 : 5523.727 MHz : 6.341 dBm Delta1 : 42.886 MHz : 1.261 dB T1 : 5491.663 MHz : 1.964 dBm T2 : 5528.337 MHz : 0.227 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 42.886 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

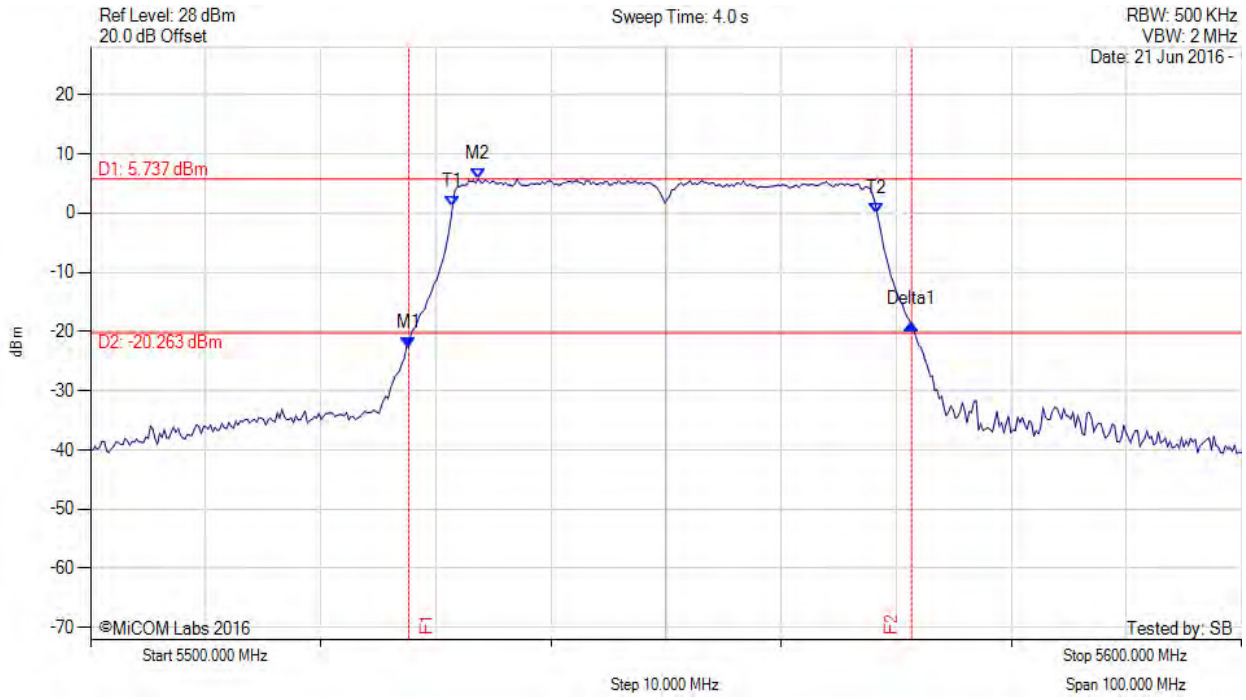


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.657 MHz : -18.388 dBm M2 : 5502.285 MHz : 8.118 dBm Delta1 : 42.084 MHz : 2.353 dB T1 : 5491.663 MHz : 3.605 dBm T2 : 5528.136 MHz : 3.184 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 42.084 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

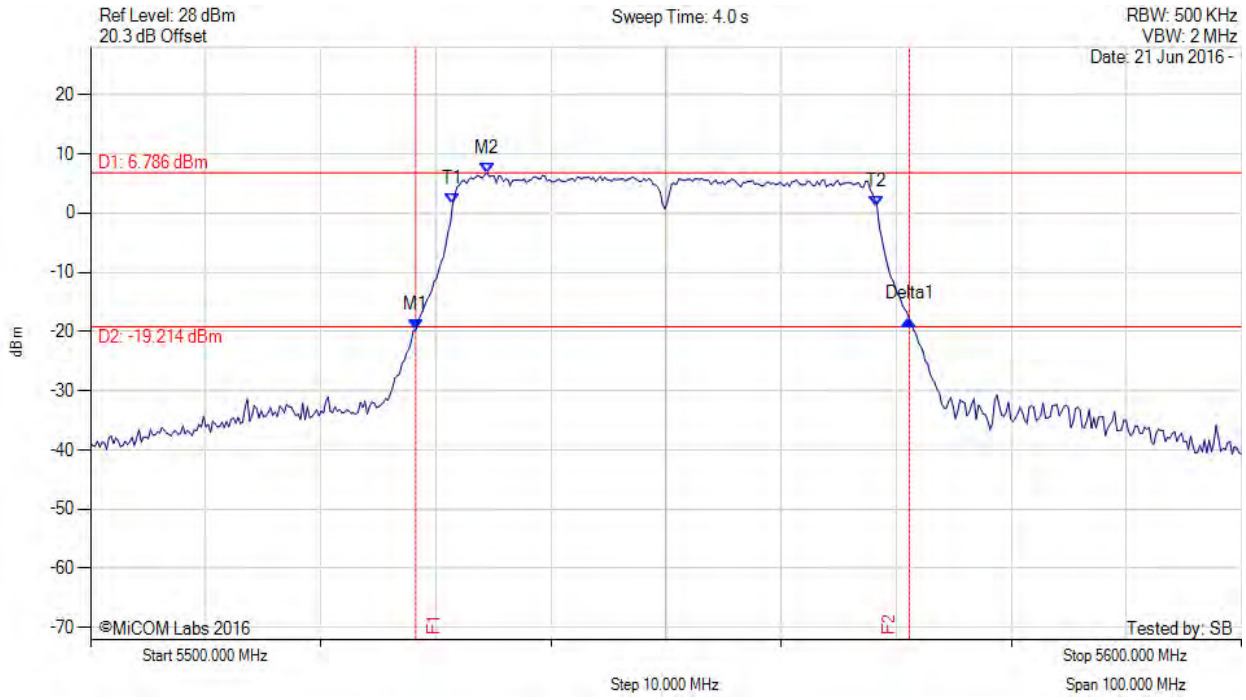


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5527.655 MHz : -22.648 dBm M2 : 5533.667 MHz : 5.737 dBm Delta1 : 43.687 MHz : 3.789 dB T1 : 5531.463 MHz : 1.187 dBm T2 : 5568.337 MHz : -0.009 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.687 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

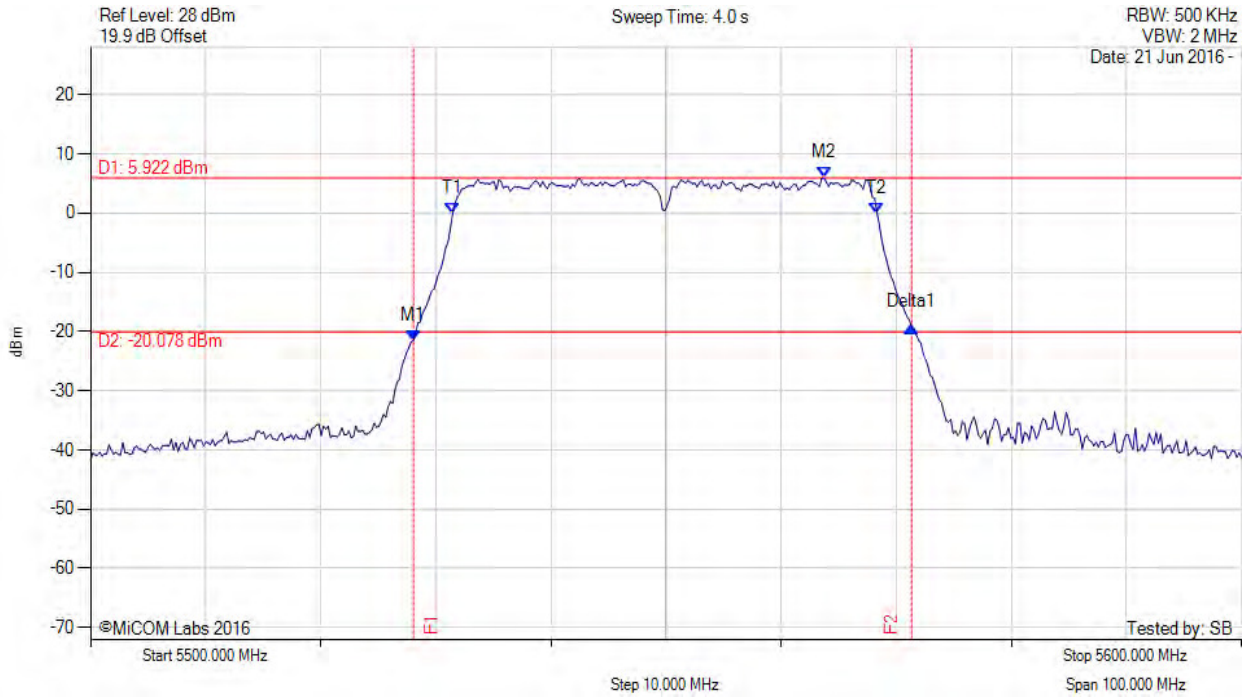


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5528.257 MHz : -19.773 dBm M2 : 5534.469 MHz : 6.786 dBm Delta1 : 42.886 MHz : 1.814 dB T1 : 5531.463 MHz : 1.557 dBm T2 : 5568.337 MHz : 1.116 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 42.886 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

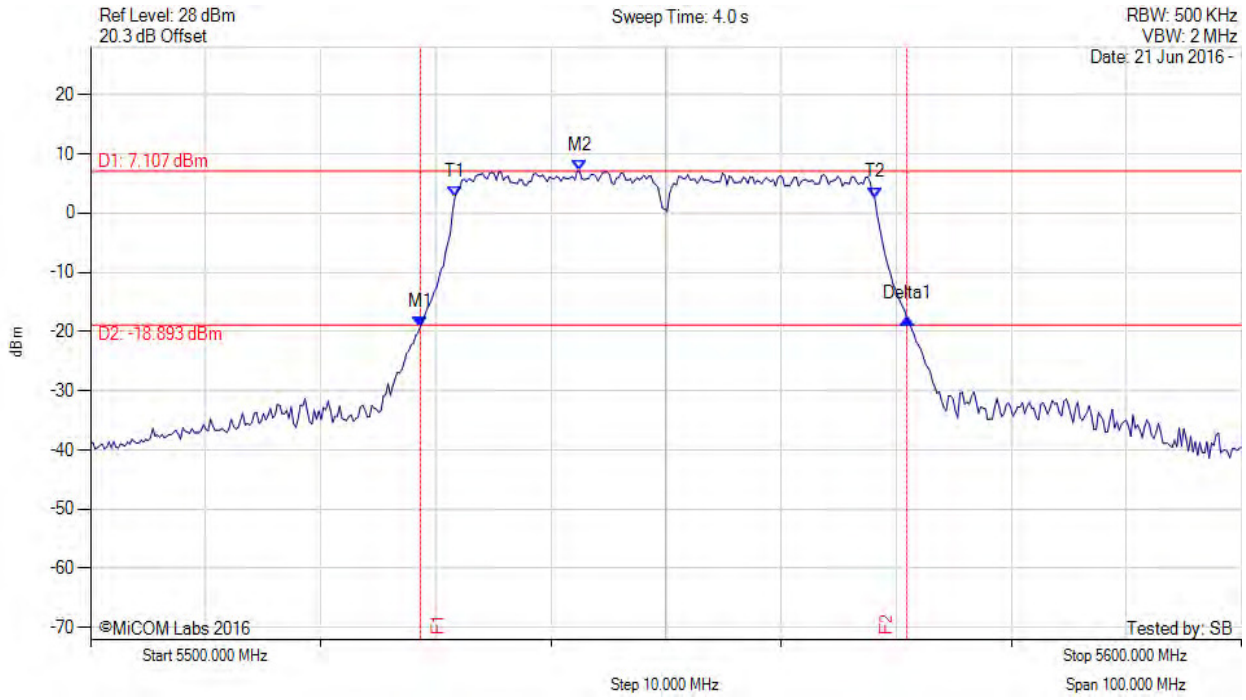


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5528.056 MHz : -21.544 dBm M2 : 5563.727 MHz : 5.922 dBm Delta1 : 43.287 MHz : 2.349 dB T1 : 5531.463 MHz : -0.102 dBm T2 : 5568.337 MHz : -0.025 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.287 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

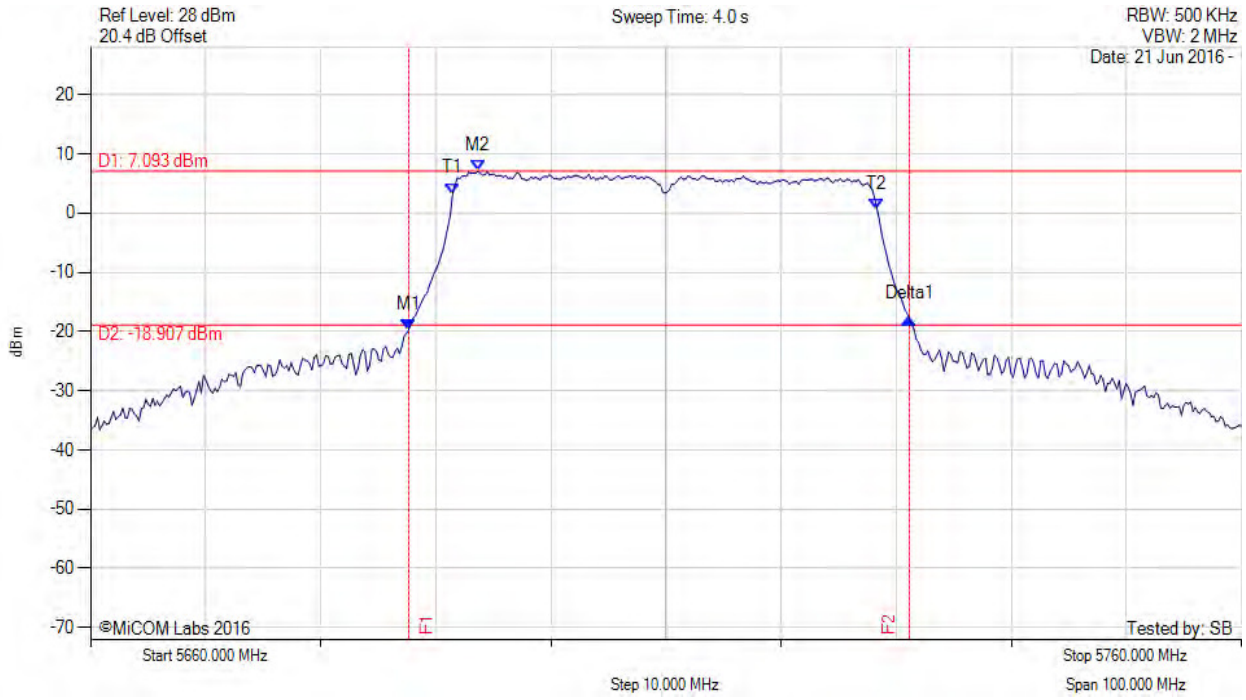


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5528.657 MHz : -19.278 dBm M2 : 5542.485 MHz : 7.107 dBm Delta1 : 42.285 MHz : 1.369 dB T1 : 5531.663 MHz : 2.753 dBm T2 : 5568.136 MHz : 2.625 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 42.285 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

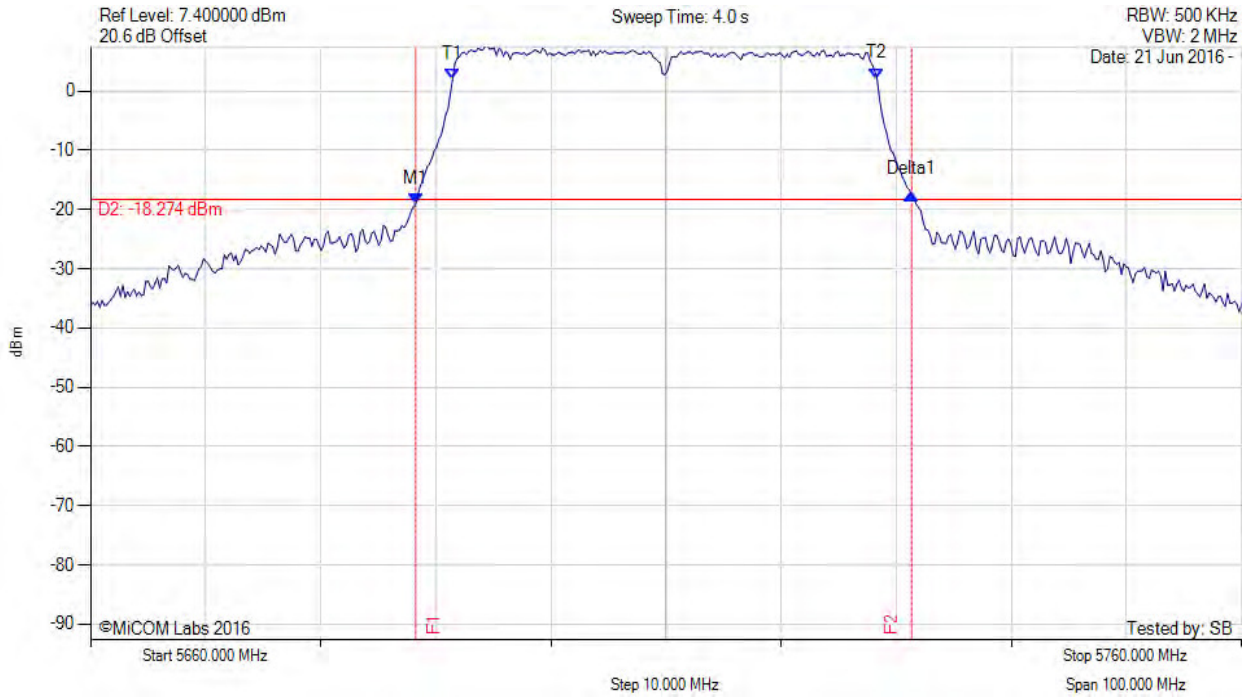


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5687.655 MHz : -19.653 dBm M2 : 5693.667 MHz : 7.093 dBm Delta1 : 43.487 MHz : 1.747 dB T1 : 5691.463 MHz : 3.312 dBm T2 : 5728.337 MHz : 0.650 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

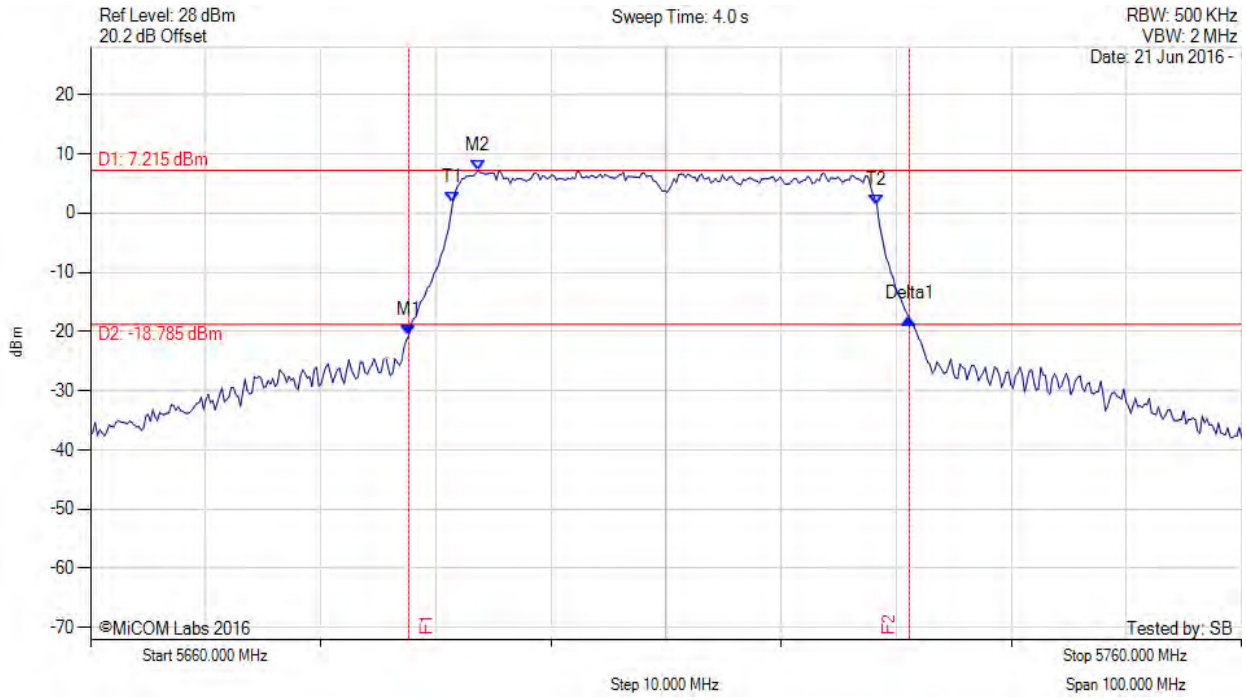


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5688.257 MHz : -19.012 dBm M2 : 5694.469 MHz : 7.726 dBm Delta1 : 43.086 MHz : 1.627 dB T1 : 5691.463 MHz : 2.015 dBm T2 : 5728.337 MHz : 2.123 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

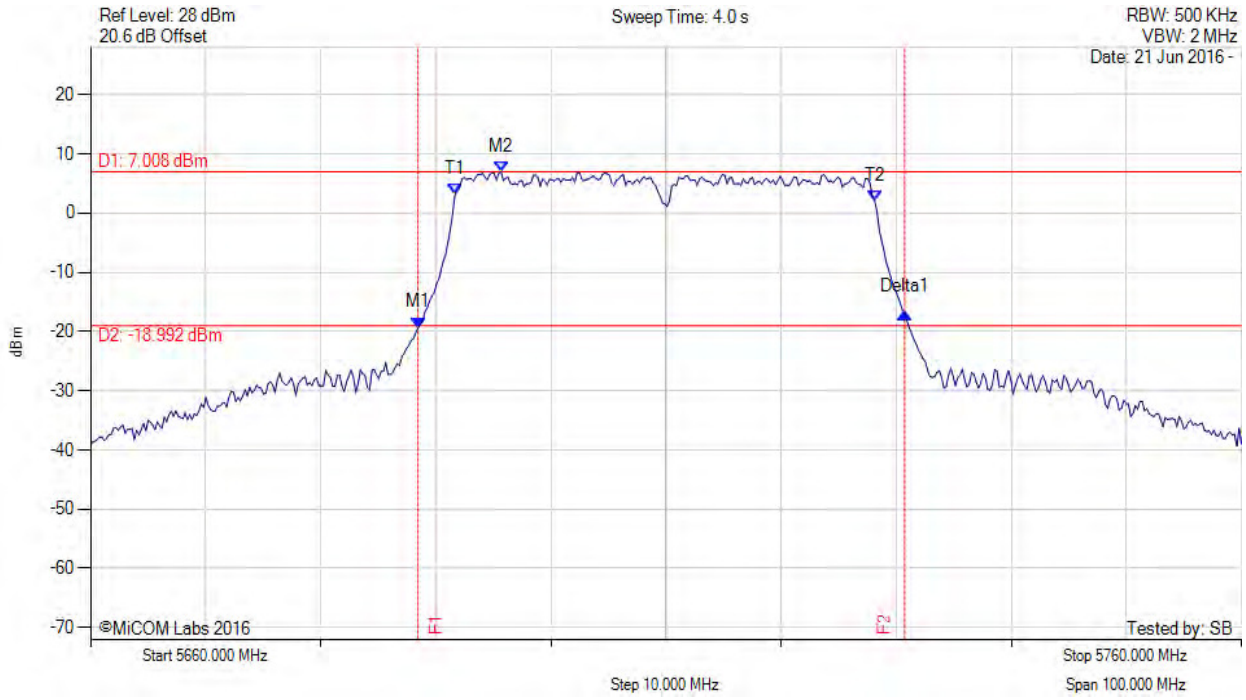


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5687.655 MHz : -20.670 dBm M2 : 5693.667 MHz : 7.215 dBm Delta1 : 43.487 MHz : 2.835 dB T1 : 5691.463 MHz : 1.746 dBm T2 : 5728.337 MHz : 1.252 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

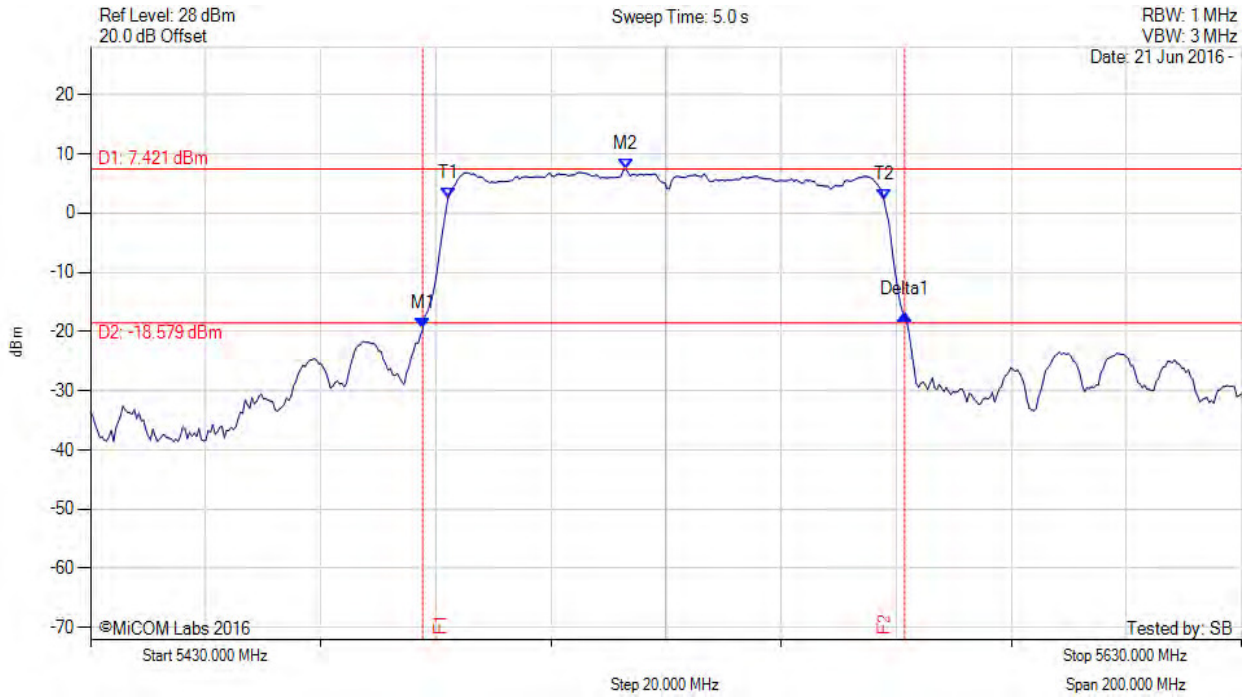


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5688.457 MHz : -19.350 dBm M2 : 5695.671 MHz : 7.008 dBm Delta1 : 42.285 MHz : 2.554 dB T1 : 5691.663 MHz : 3.139 dBm T2 : 5728.136 MHz : 2.068 dBm OBW : 36.473 MHz	Measured 26 dB Bandwidth: 42.285 MHz Measured 99% Bandwidth: 36.473 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

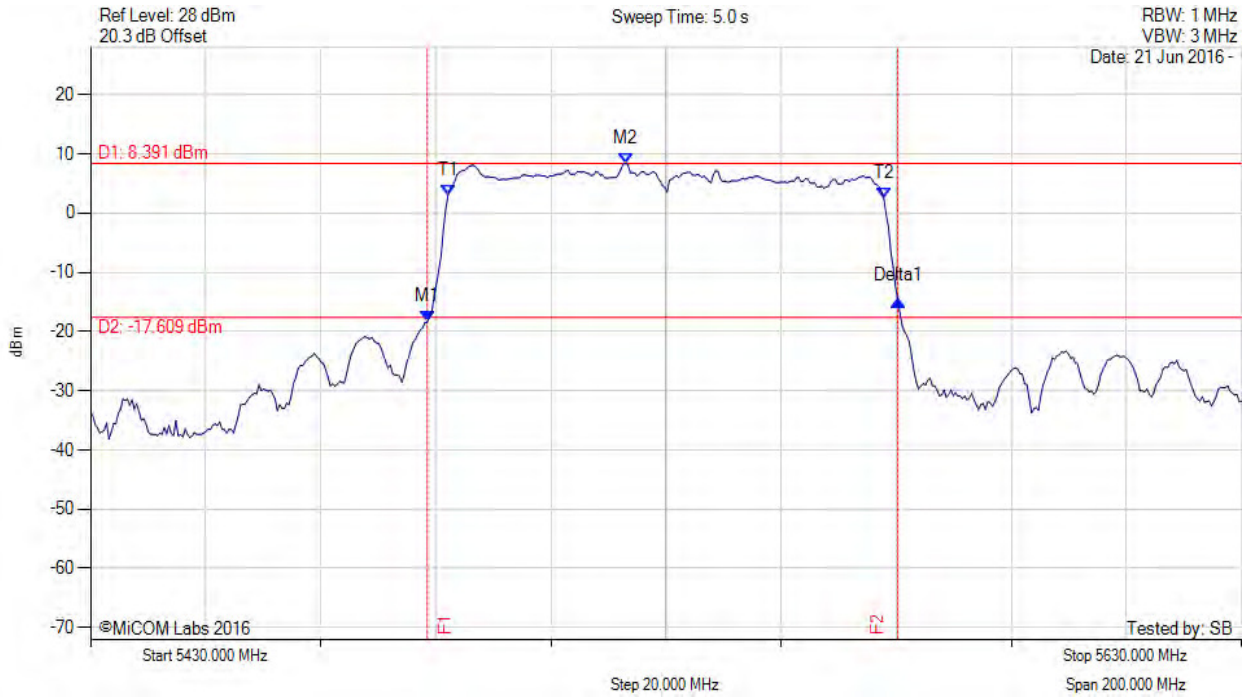


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.715 MHz : -19.557 dBm M2 : 5522.986 MHz : 7.421 dBm Delta1 : 83.768 MHz : 2.410 dB T1 : 5492.124 MHz : 2.507 dBm T2 : 5567.876 MHz : 2.318 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 83.768 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

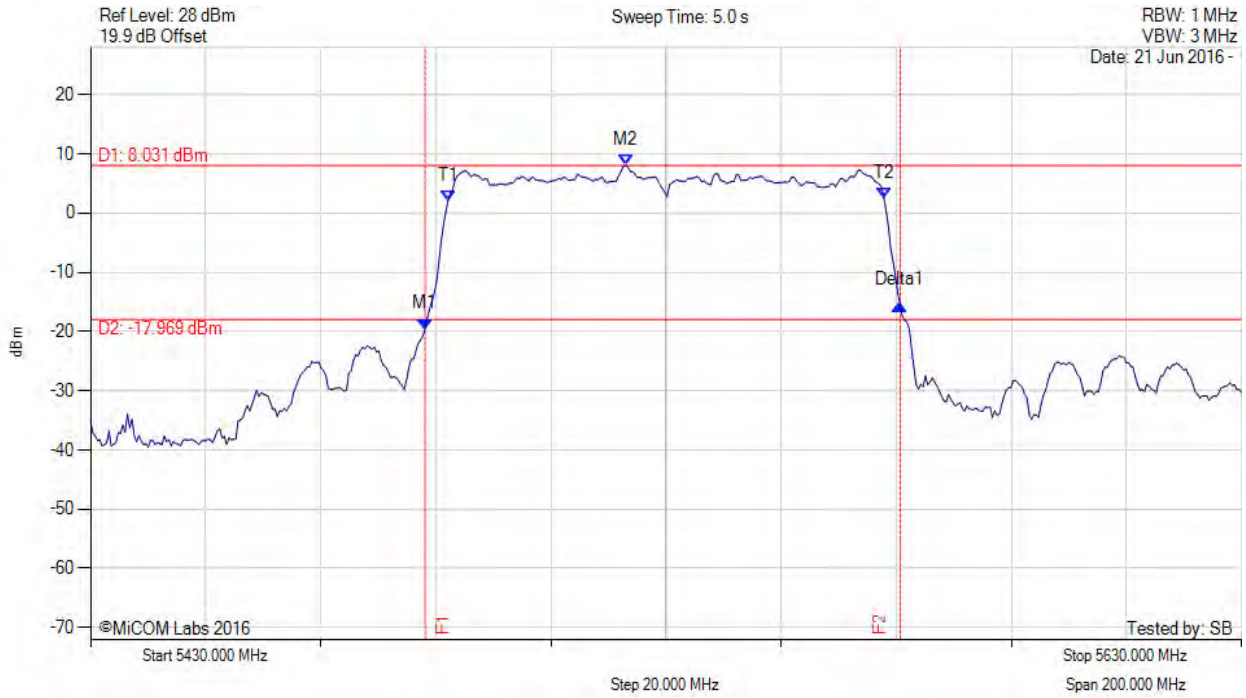


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.517 MHz : -18.392 dBm M2 : 5522.986 MHz : 8.391 dBm Delta1 : 81.764 MHz : 3.663 dB T1 : 5492.124 MHz : 3.062 dBm T2 : 5567.876 MHz : 2.397 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 81.764 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

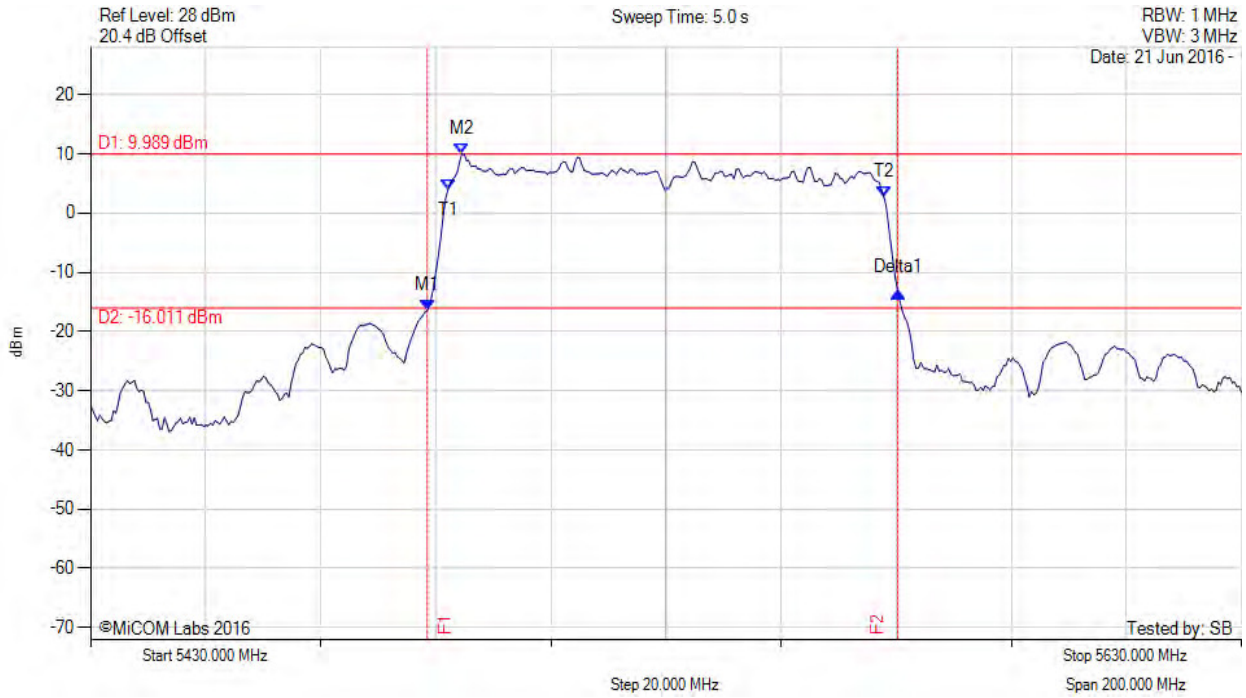


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.116 MHz : -19.602 dBm M2 : 5522.986 MHz : 8.031 dBm Delta1 : 82.565 MHz : 4.137 dB T1 : 5492.124 MHz : 2.114 dBm T2 : 5567.876 MHz : 2.513 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 82.565 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

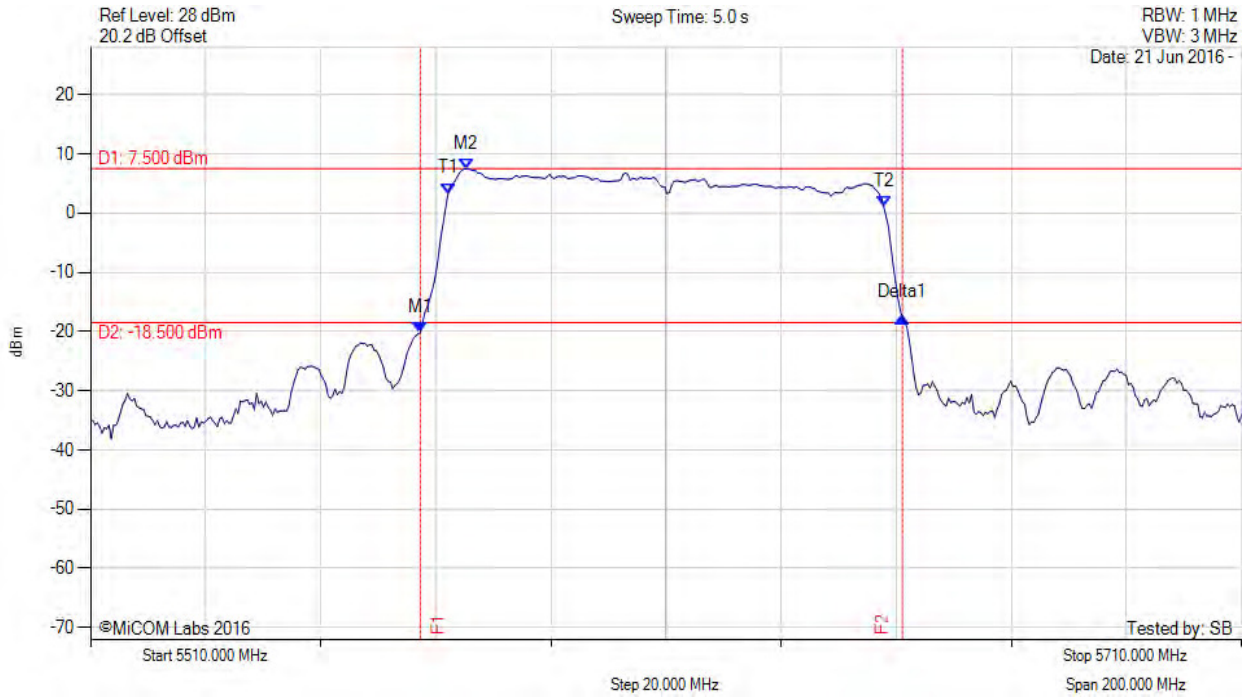


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.517 MHz : -16.368 dBm M2 : 5494.529 MHz : 9.989 dBm Delta1 : 81.764 MHz : 3.065 dB T1 : 5492.124 MHz : 3.967 dBm T2 : 5567.876 MHz : 2.688 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 81.764 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

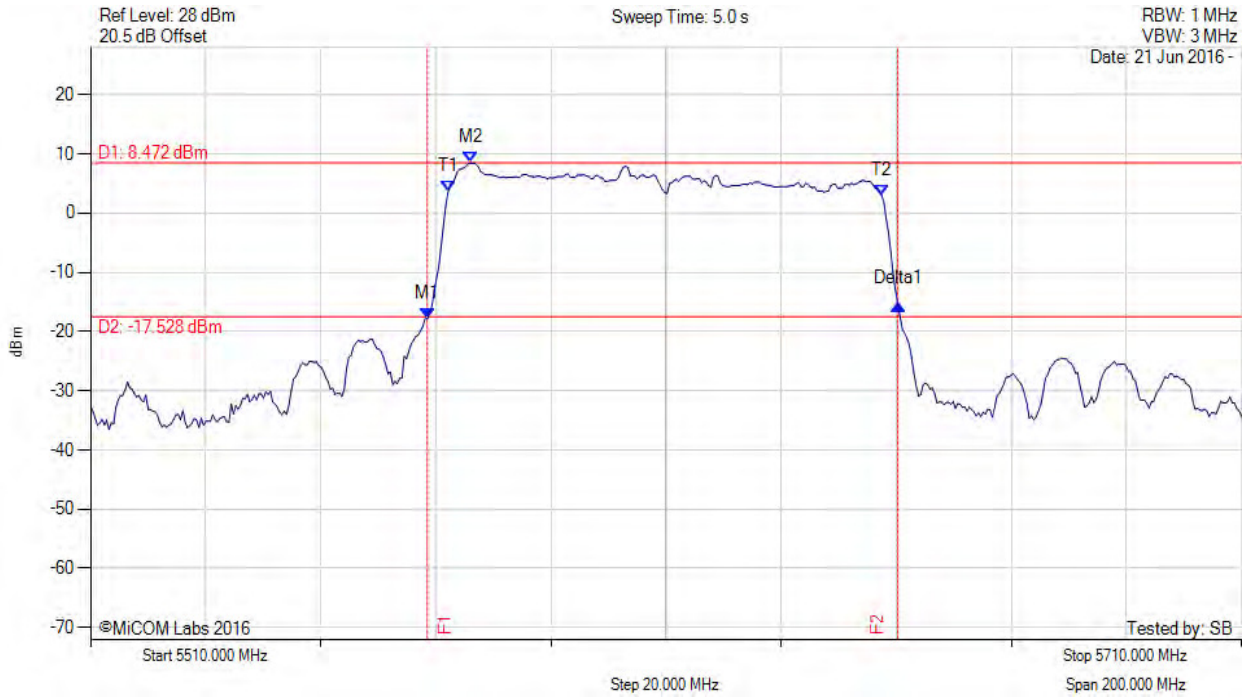


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5567.315 MHz : -20.159 dBm M2 : 5575.331 MHz : 7.500 dBm Delta1 : 83.768 MHz : 2.518 dB T1 : 5572.124 MHz : 3.318 dBm T2 : 5647.876 MHz : 1.006 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 83.768 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

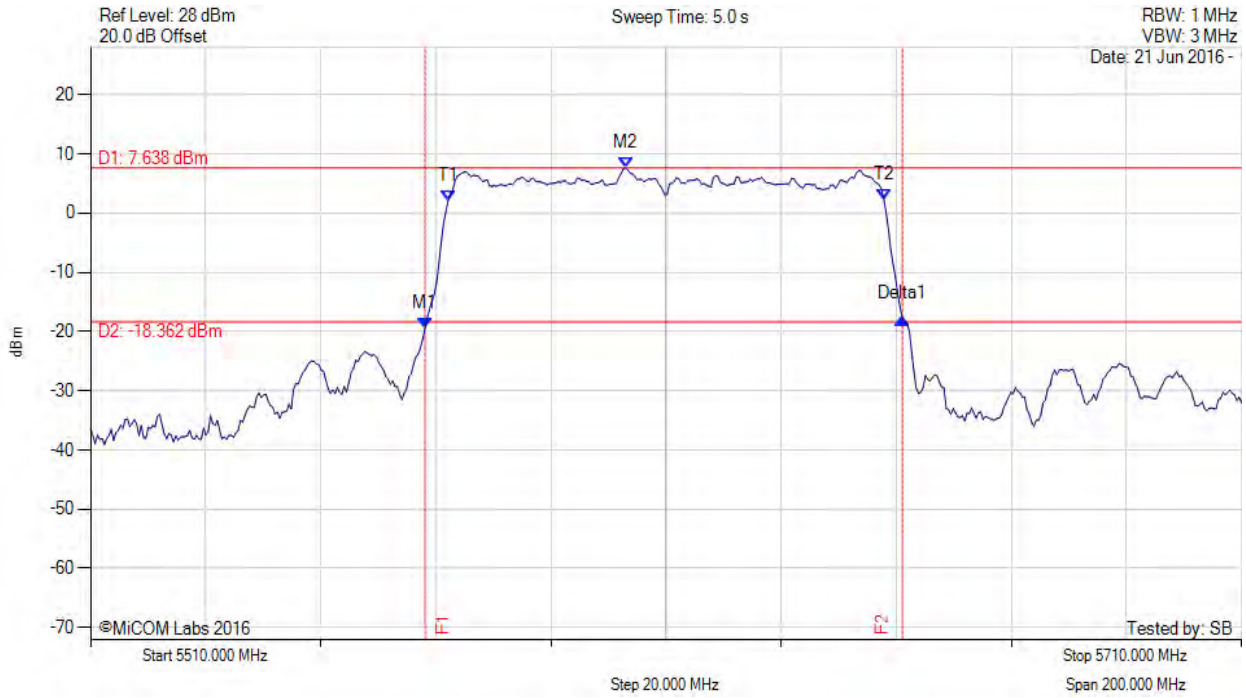


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.517 MHz : -17.873 dBm M2 : 5576.132 MHz : 8.472 dBm Delta1 : 81.764 MHz : 2.502 dB T1 : 5572.124 MHz : 3.583 dBm T2 : 5647.475 MHz : 2.985 dBm OBW : 75.351 MHz	Measured 26 dB Bandwidth: 81.764 MHz Measured 99% Bandwidth: 75.351 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

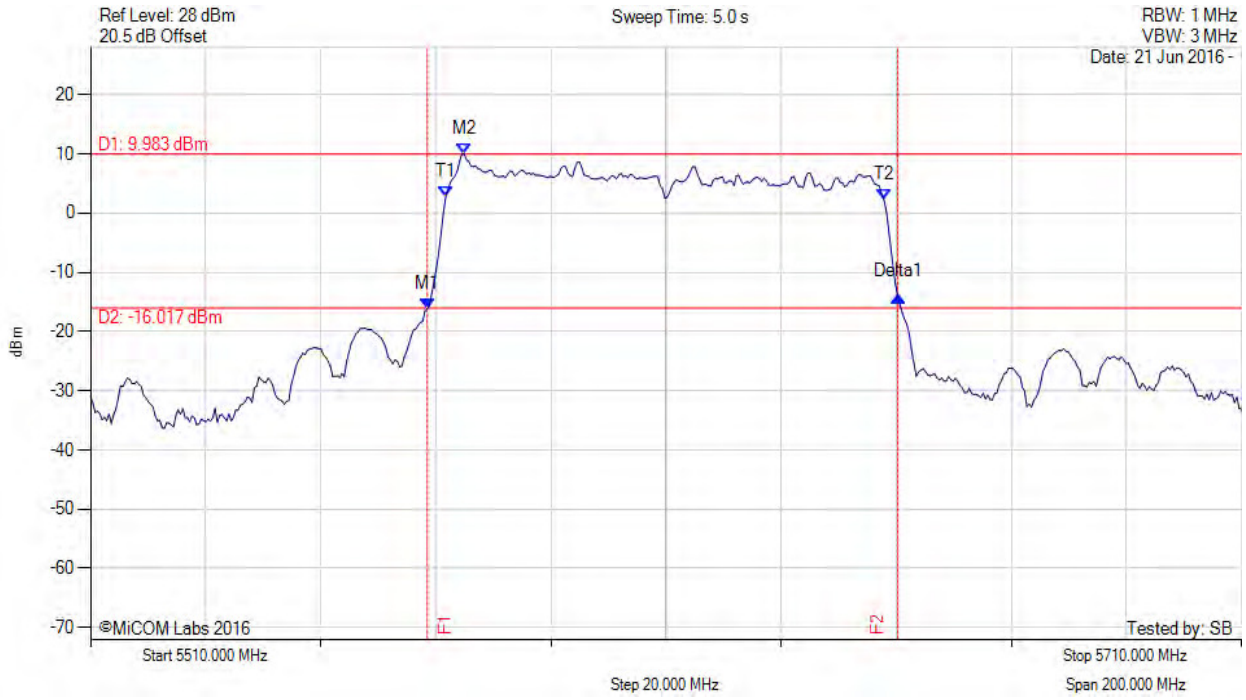


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.116 MHz : -19.476 dBm M2 : 5602.986 MHz : 7.638 dBm Delta1 : 82.966 MHz : 1.635 dB T1 : 5572.124 MHz : 2.005 dBm T2 : 5647.876 MHz : 2.326 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 82.966 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

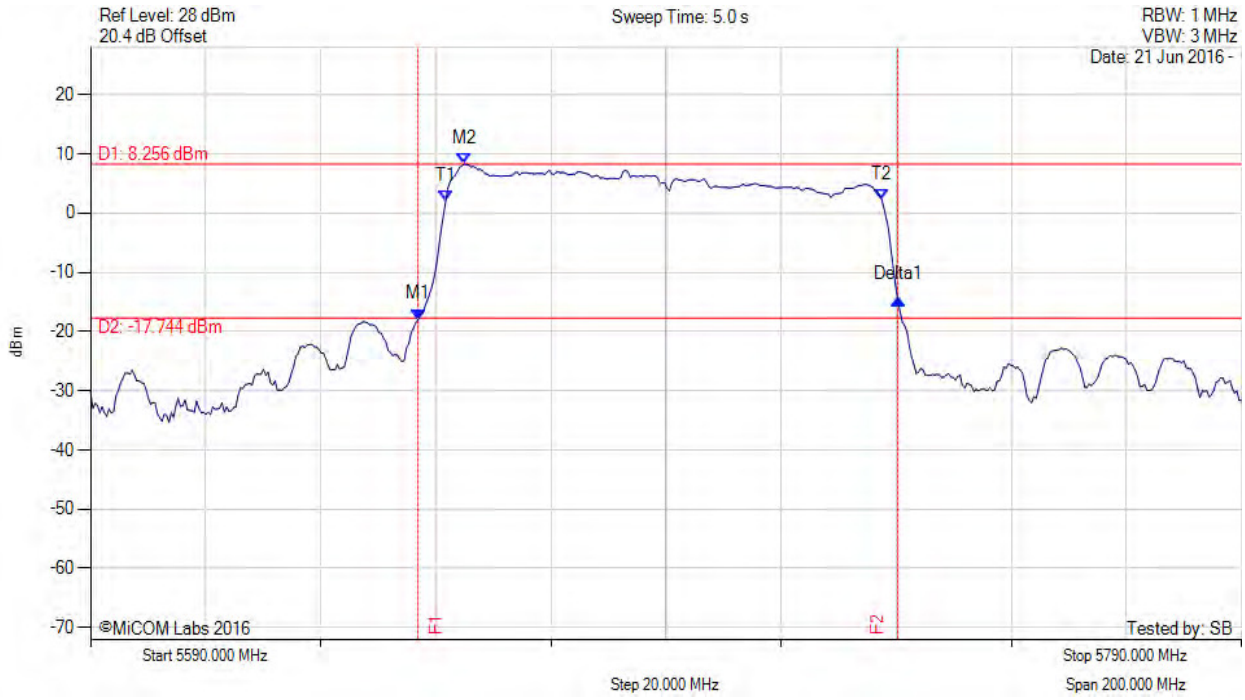


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.517 MHz : -16.163 dBm M2 : 5574.930 MHz : 9.983 dBm Delta1 : 81.764 MHz : 2.078 dB T1 : 5571.723 MHz : 2.645 dBm T2 : 5647.876 MHz : 2.228 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 81.764 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

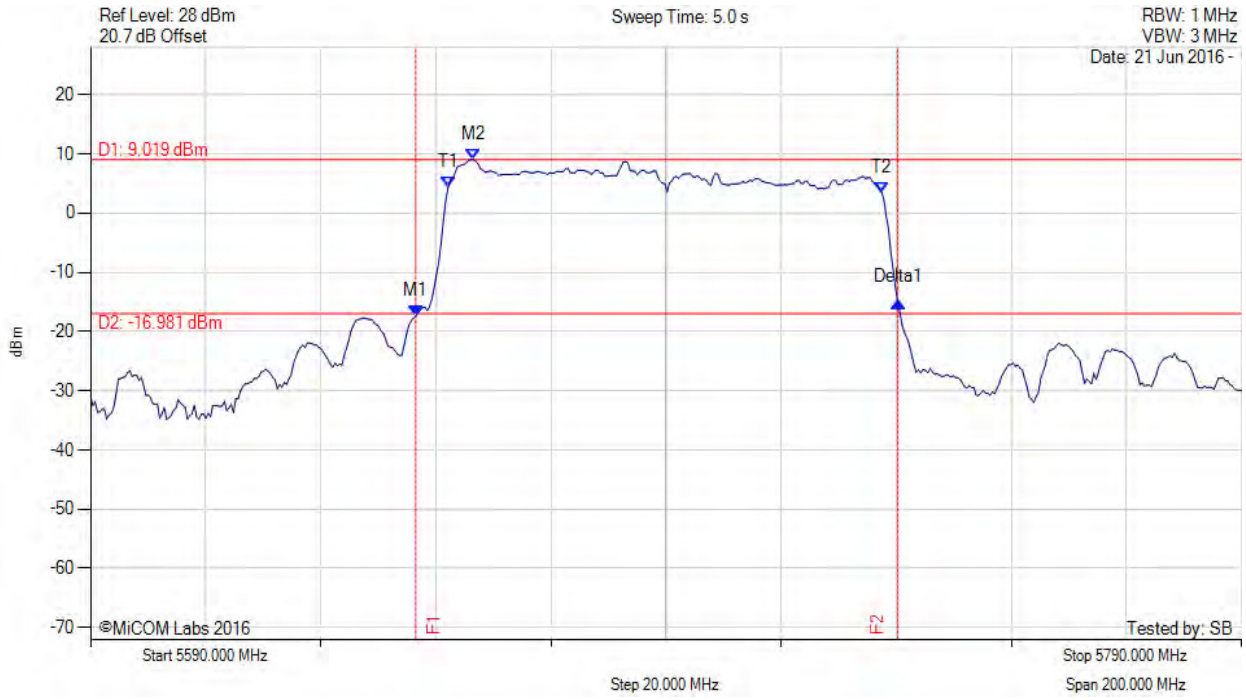


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5646.914 MHz : -17.959 dBm M2 : 5654.930 MHz : 8.256 dBm Delta1 : 83.367 MHz : 3.398 dB T1 : 5651.723 MHz : 2.023 dBm T2 : 5727.475 MHz : 2.320 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 83.367 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

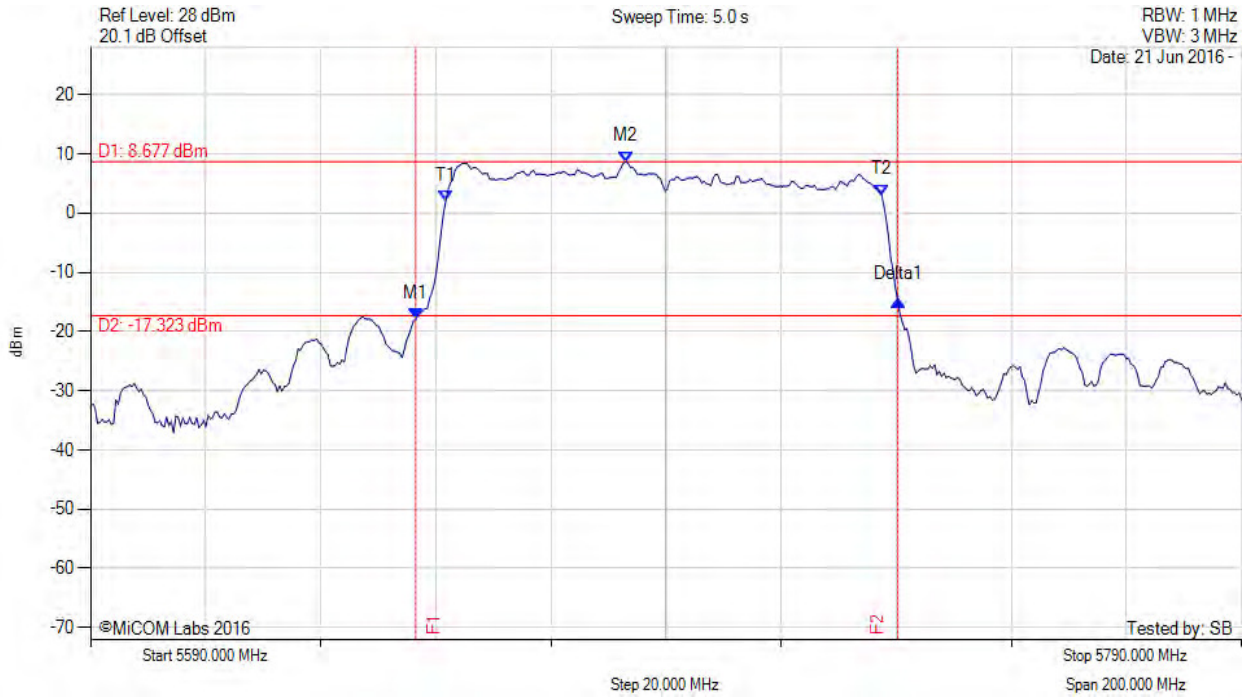


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5646.513 MHz : -17.432 dBm M2 : 5656.533 MHz : 9.019 dBm Delta1 : 83.768 MHz : 2.489 dB T1 : 5652.124 MHz : 4.295 dBm T2 : 5727.475 MHz : 3.530 dBm OBW : 75.351 MHz	Measured 26 dB Bandwidth: 83.768 MHz Measured 99% Bandwidth: 75.351 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

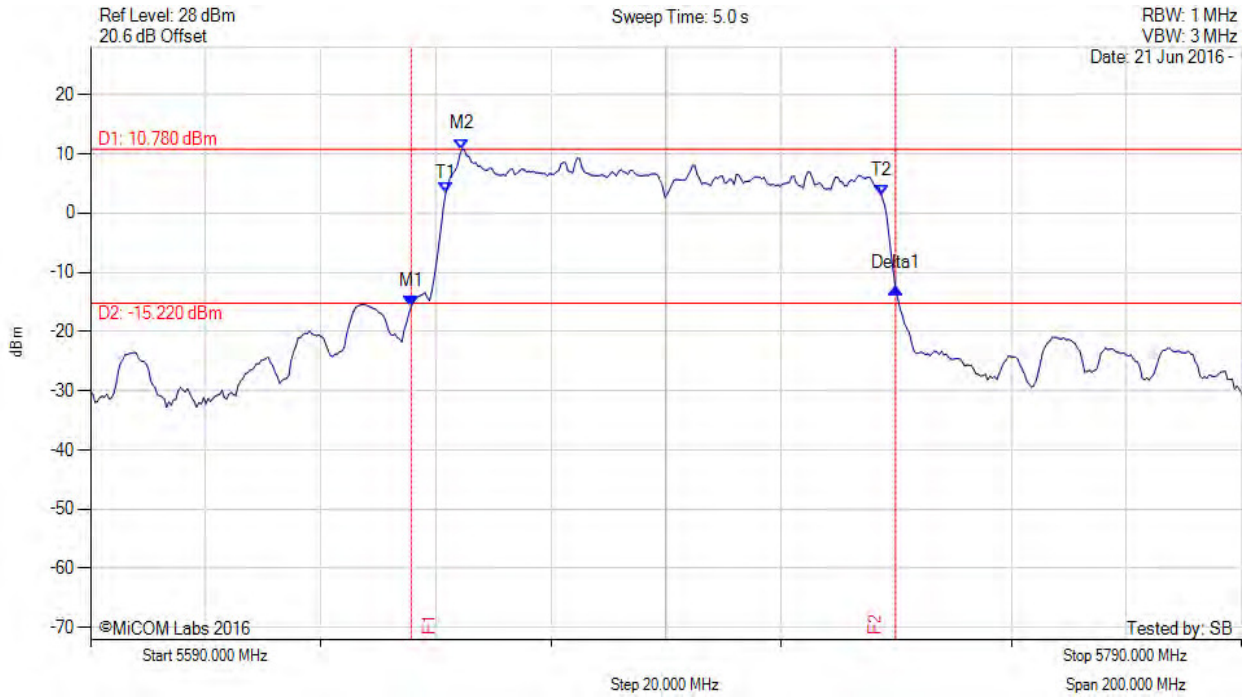


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5646.513 MHz : -17.877 dBm M2 : 5682.986 MHz : 8.677 dBm Delta1 : 83.768 MHz : 3.199 dB T1 : 5651.723 MHz : 2.015 dBm T2 : 5727.475 MHz : 3.072 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 83.768 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

26 dB & 99% BANDWIDTH

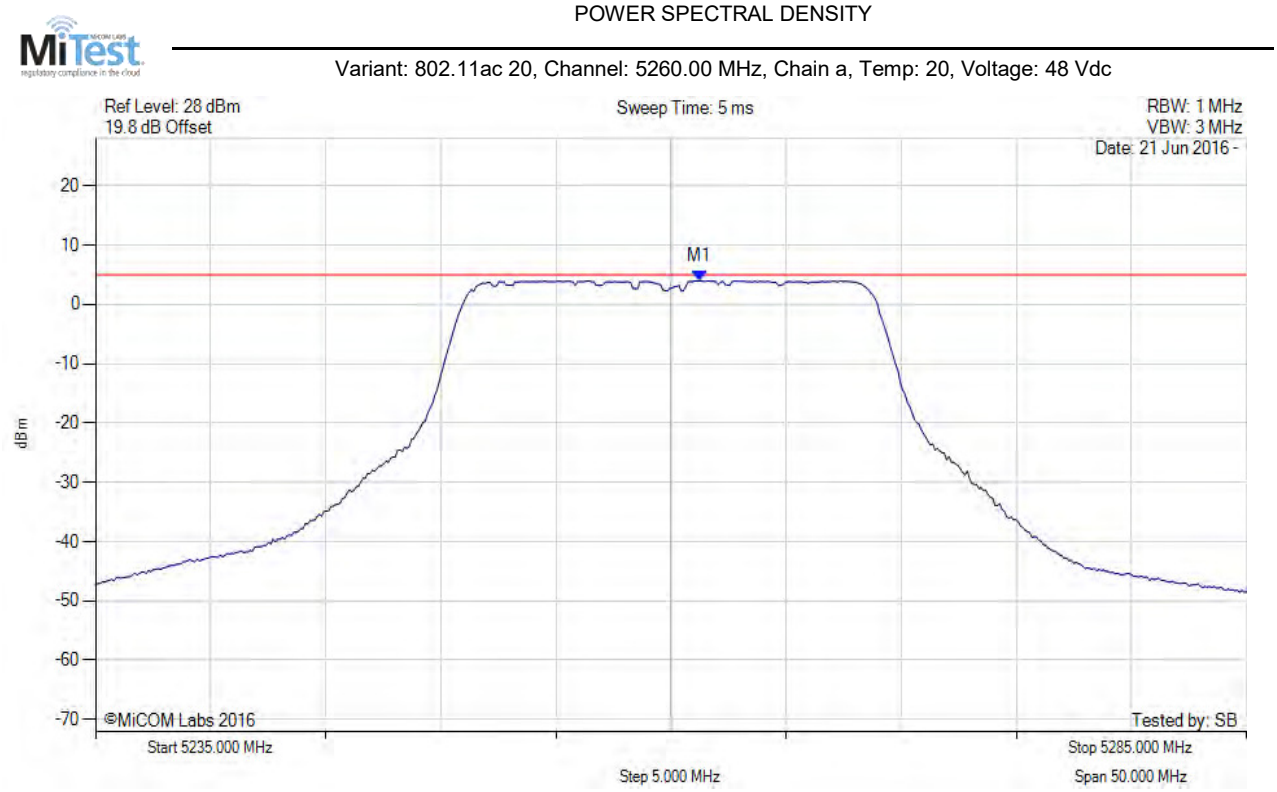
Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5645.711 MHz : -15.697 dBm M2 : 5654.529 MHz : 10.780 dBm Delta1 : 84.168 MHz : 3.018 dB T1 : 5651.723 MHz : 3.430 dBm T2 : 5727.475 MHz : 2.897 dBm OBW : 75.752 MHz	Measured 26 dB Bandwidth: 84.168 MHz Measured 99% Bandwidth: 75.752 MHz

back to matrix

A.2. Power Spectral Density

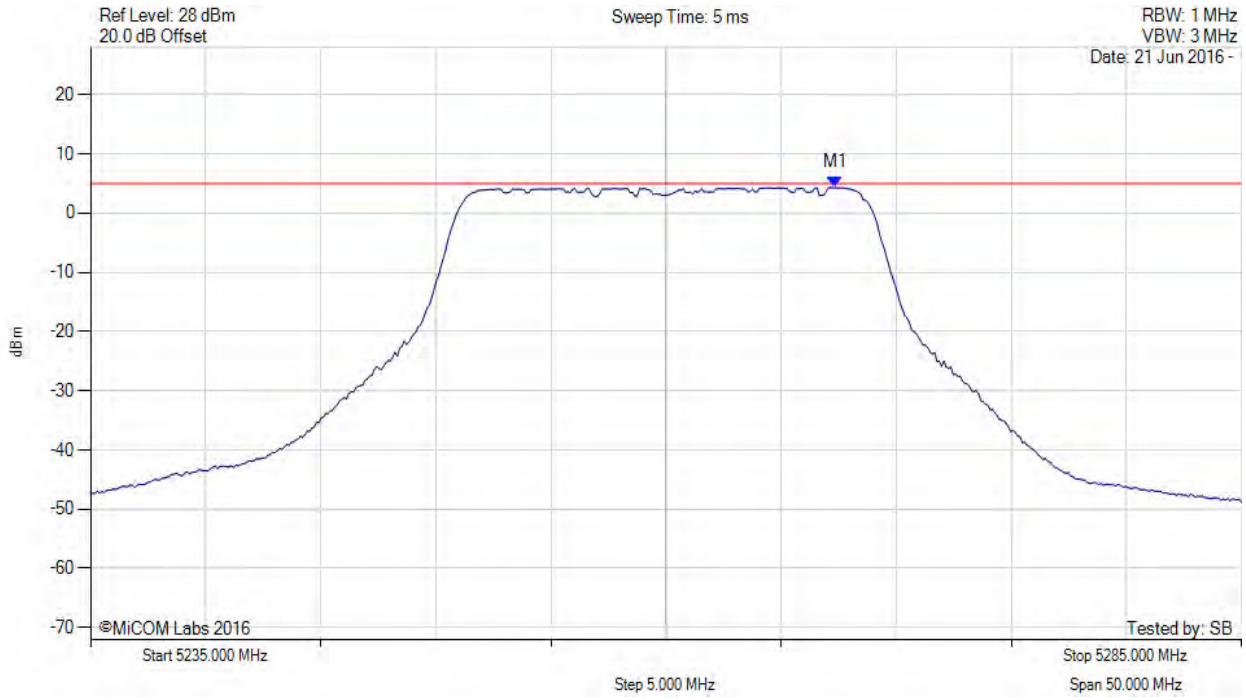


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5261.253 MHz : 3.978 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

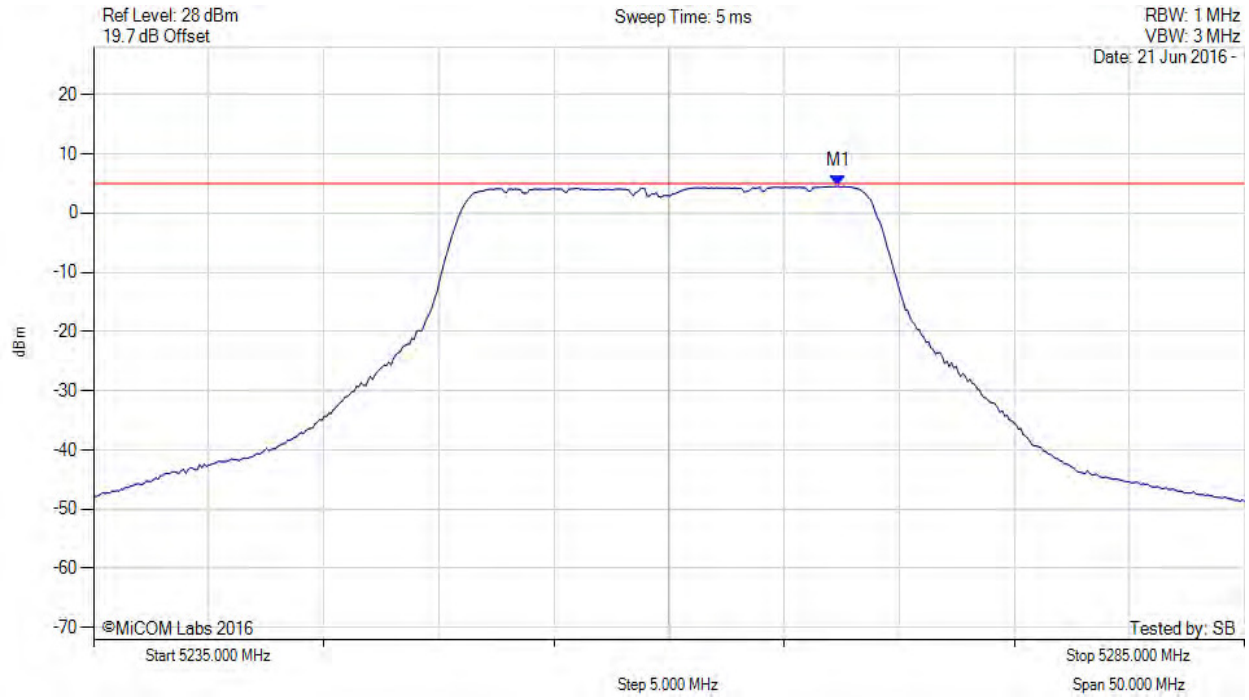


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.365 MHz : 4.298 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

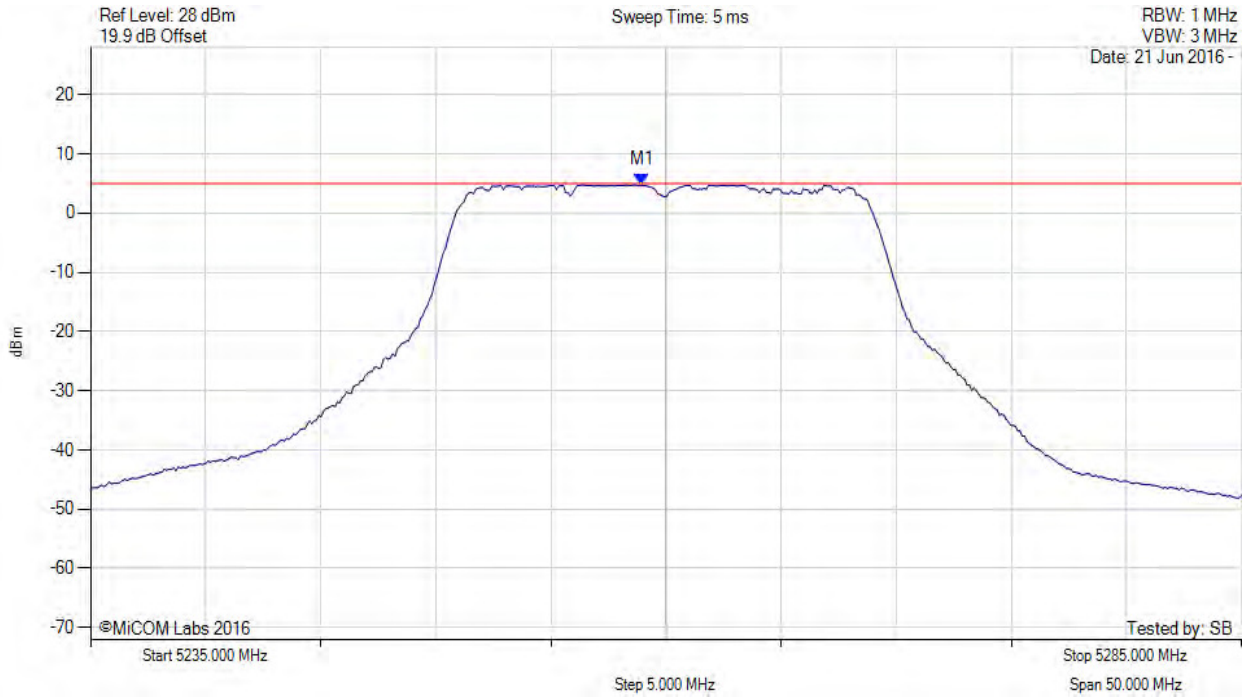


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.365 MHz : 4.529 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5260.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

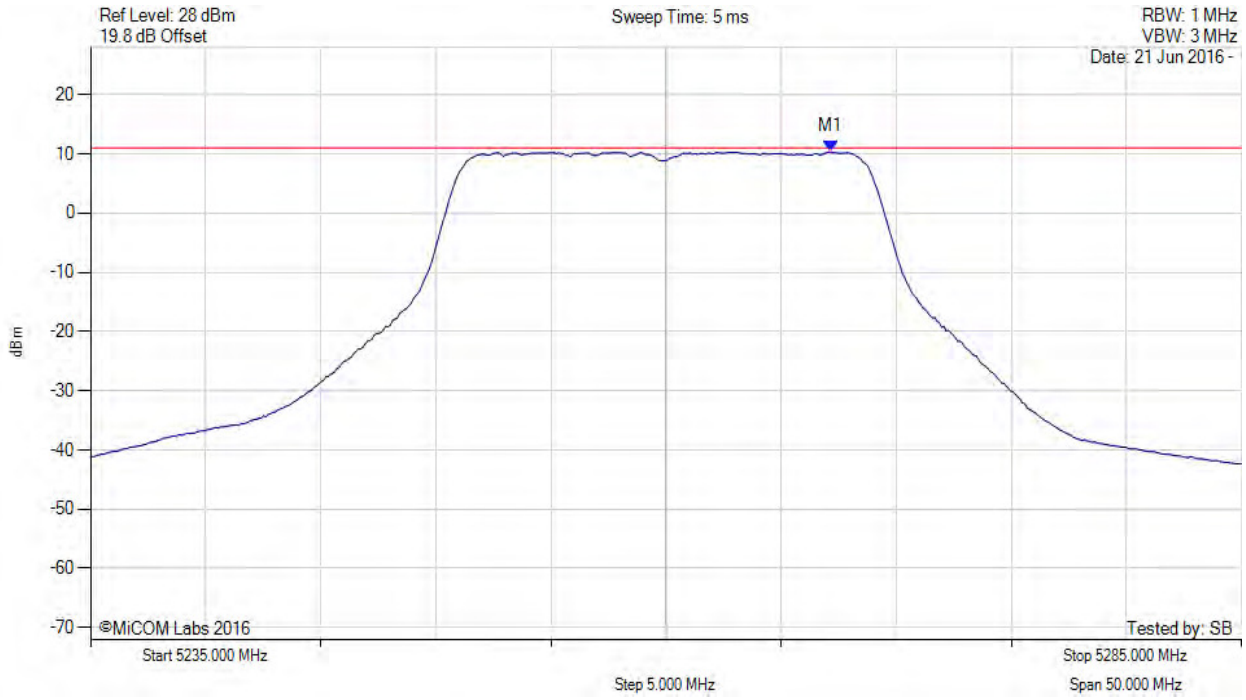


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.948 MHz : 4.745 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

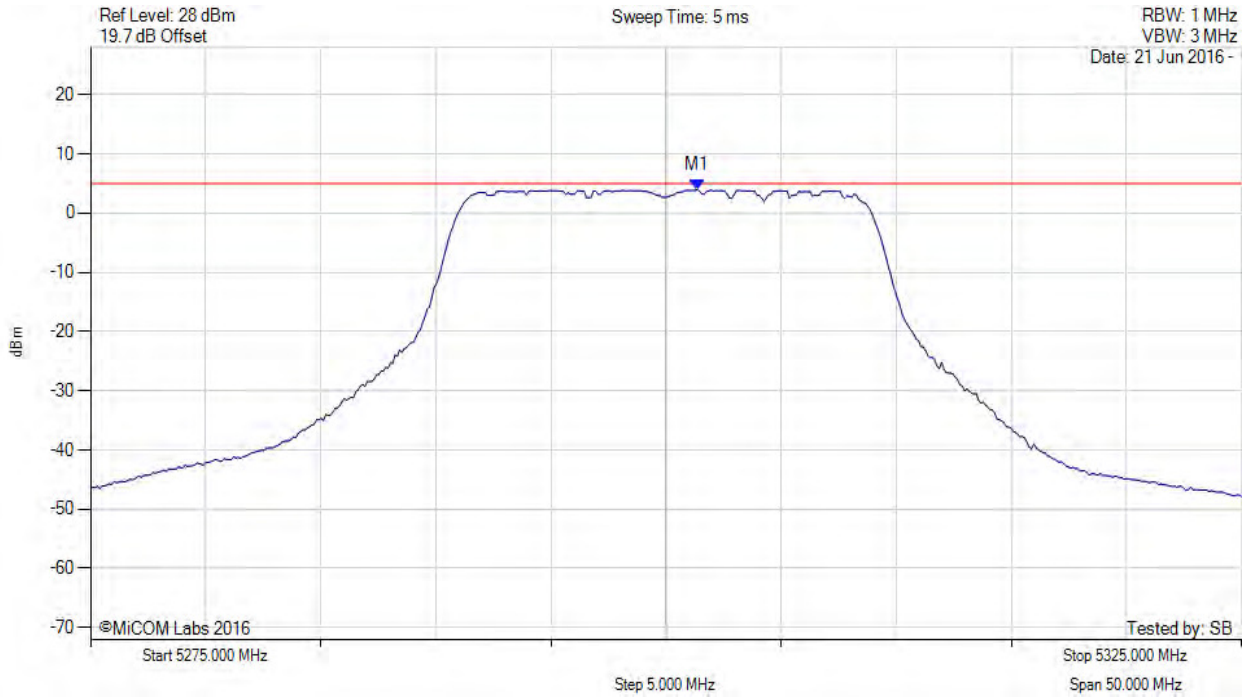


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.200 MHz : 10.342 dBm M1 + DCCF : 5267.200 MHz : 10.386 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -0.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

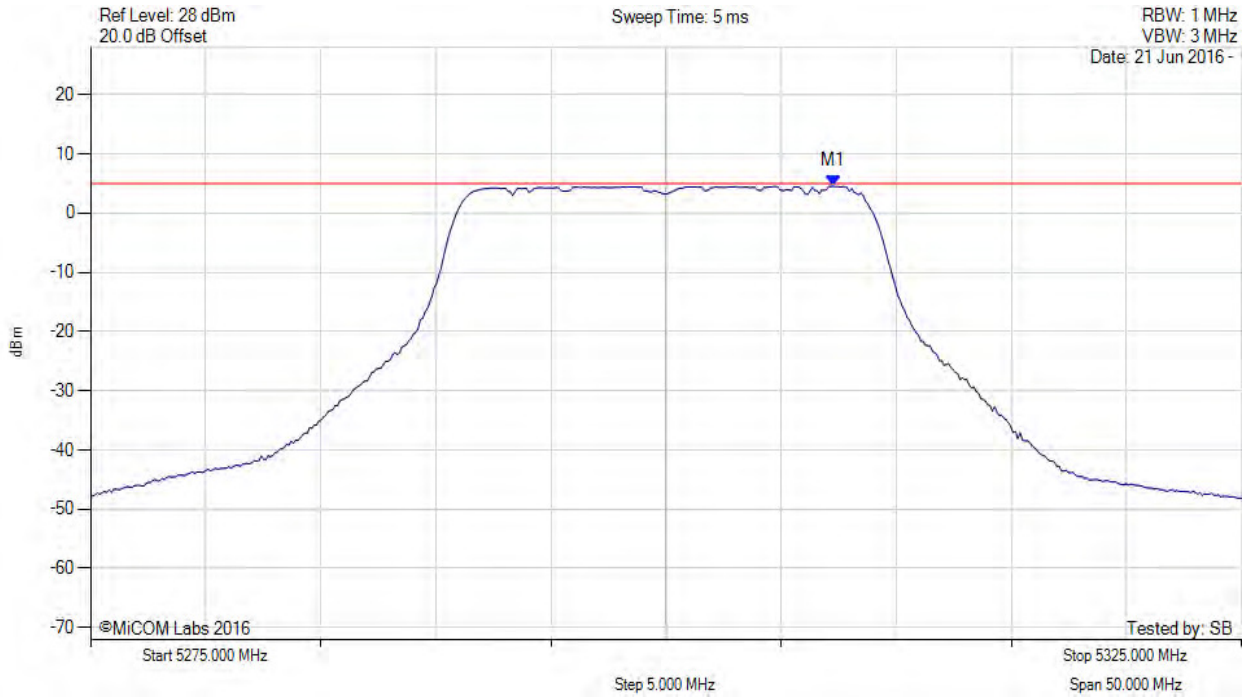


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5301.353 MHz : 3.950 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

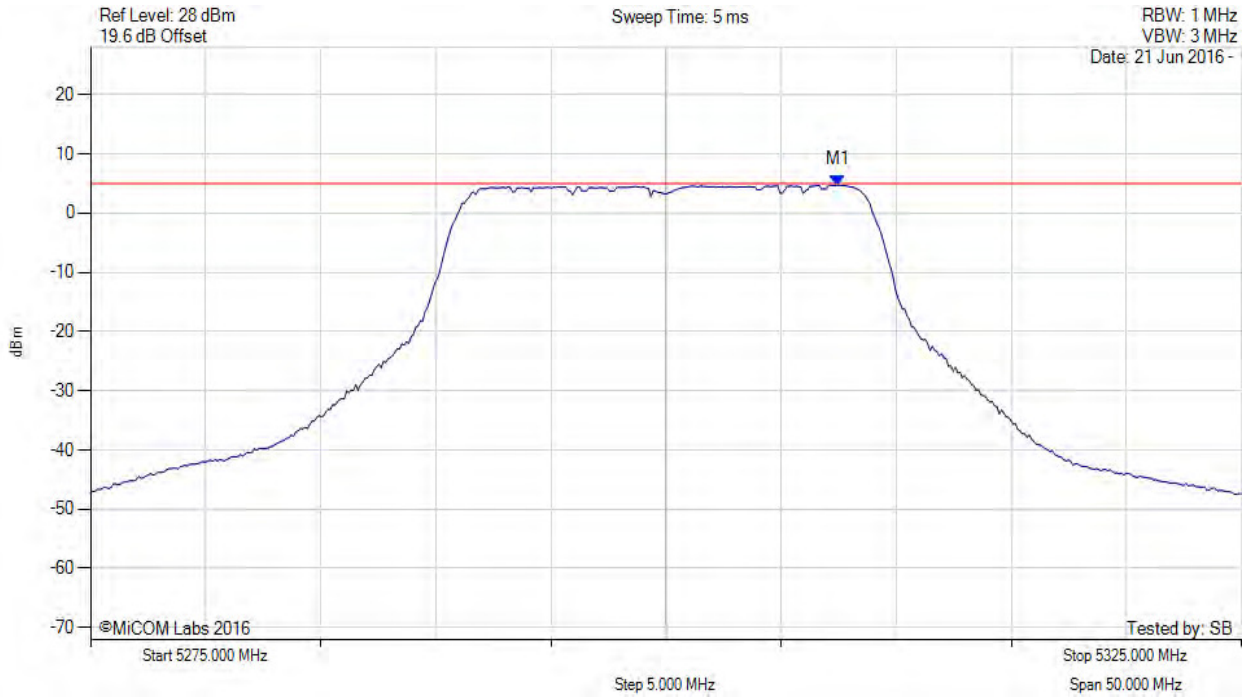


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5307.265 MHz : 4.520 dBm	Channel Frequency: 5300.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

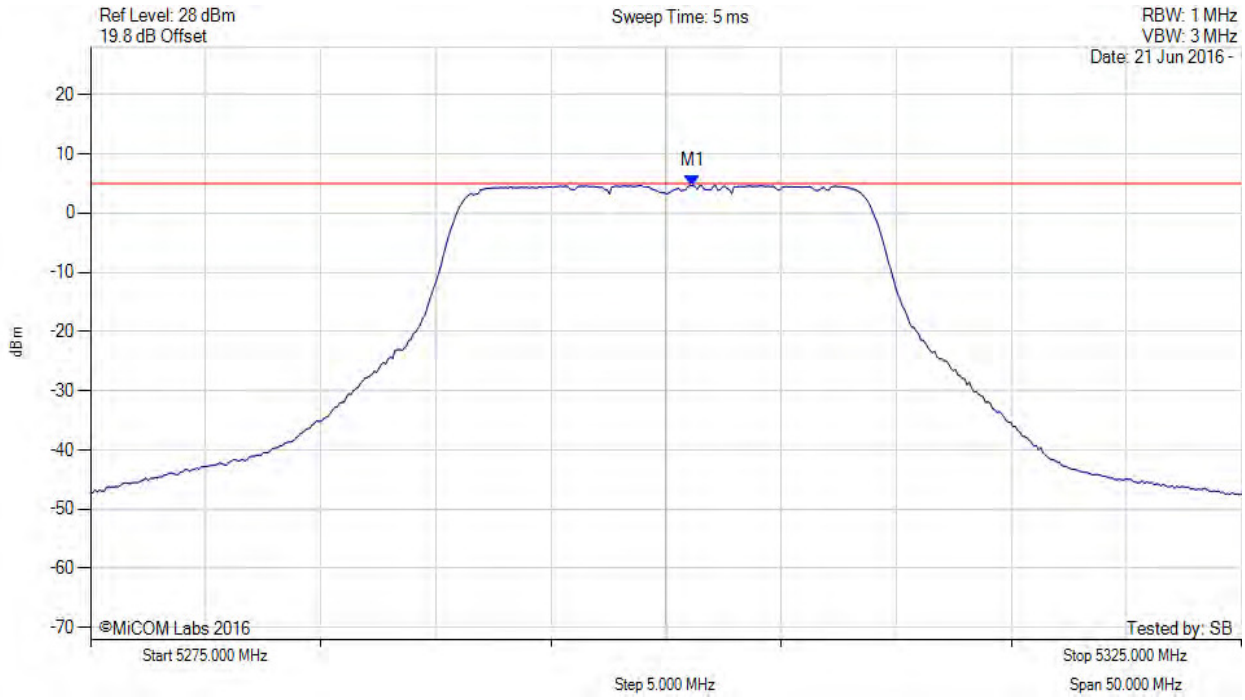


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5307.465 MHz : 4.720 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5300.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

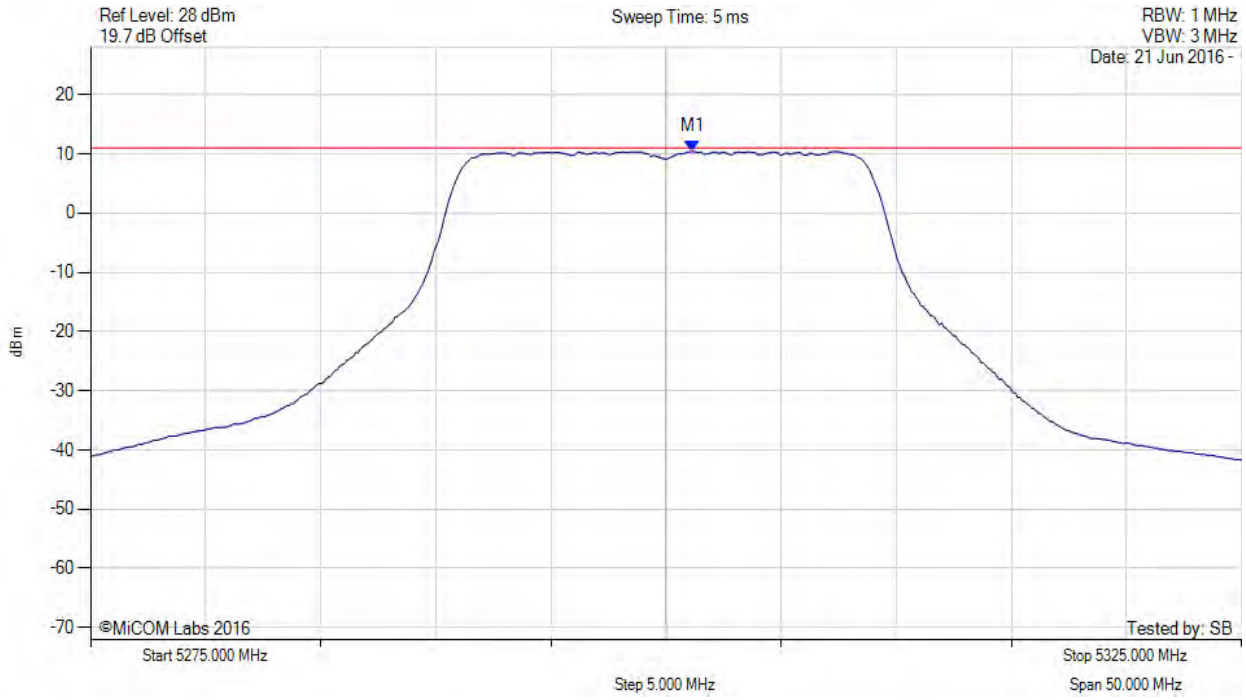


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5301.152 MHz : 4.642 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

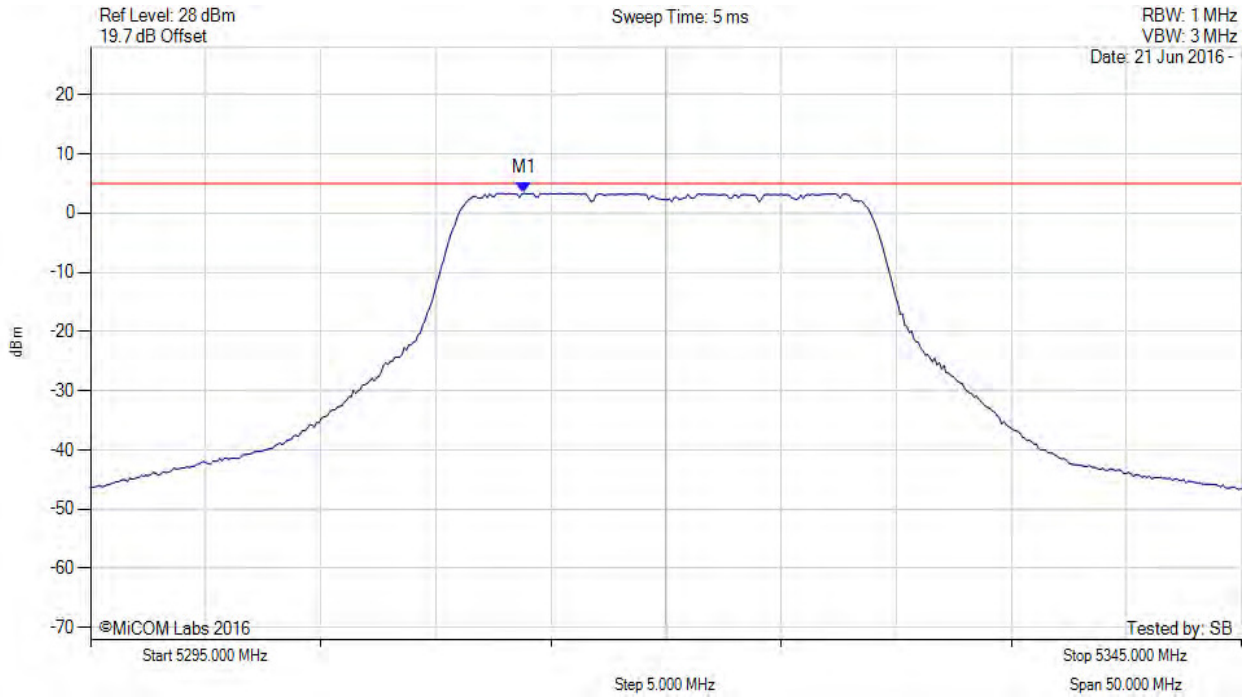


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5301.200 MHz : 10.405 dBm M1 + DCCF : 5301.200 MHz : 10.449 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -0.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

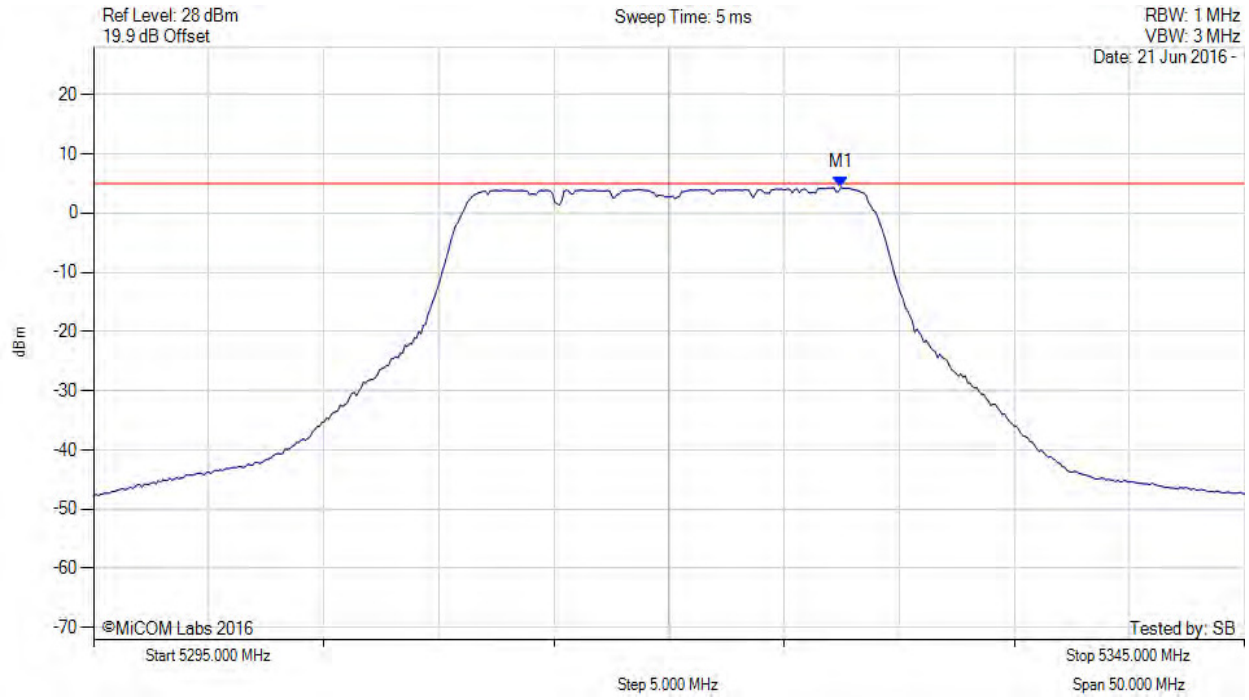


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5313.838 MHz : 3.346 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

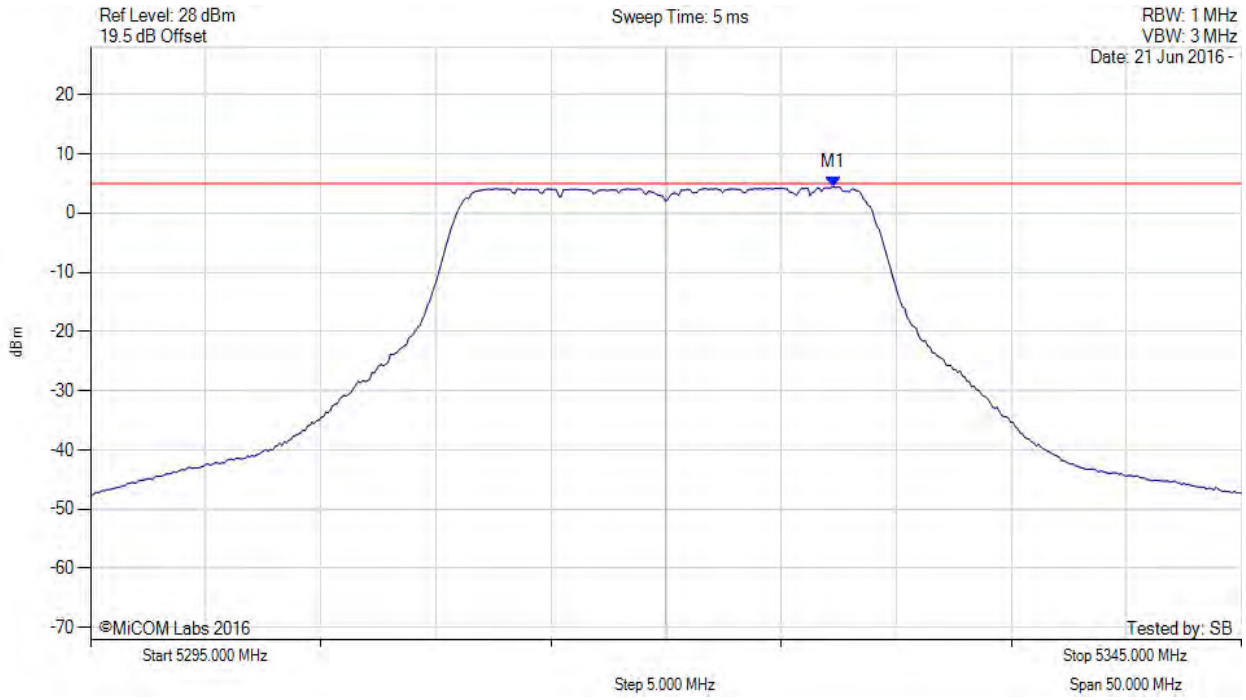


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5327.465 MHz : 4.326 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

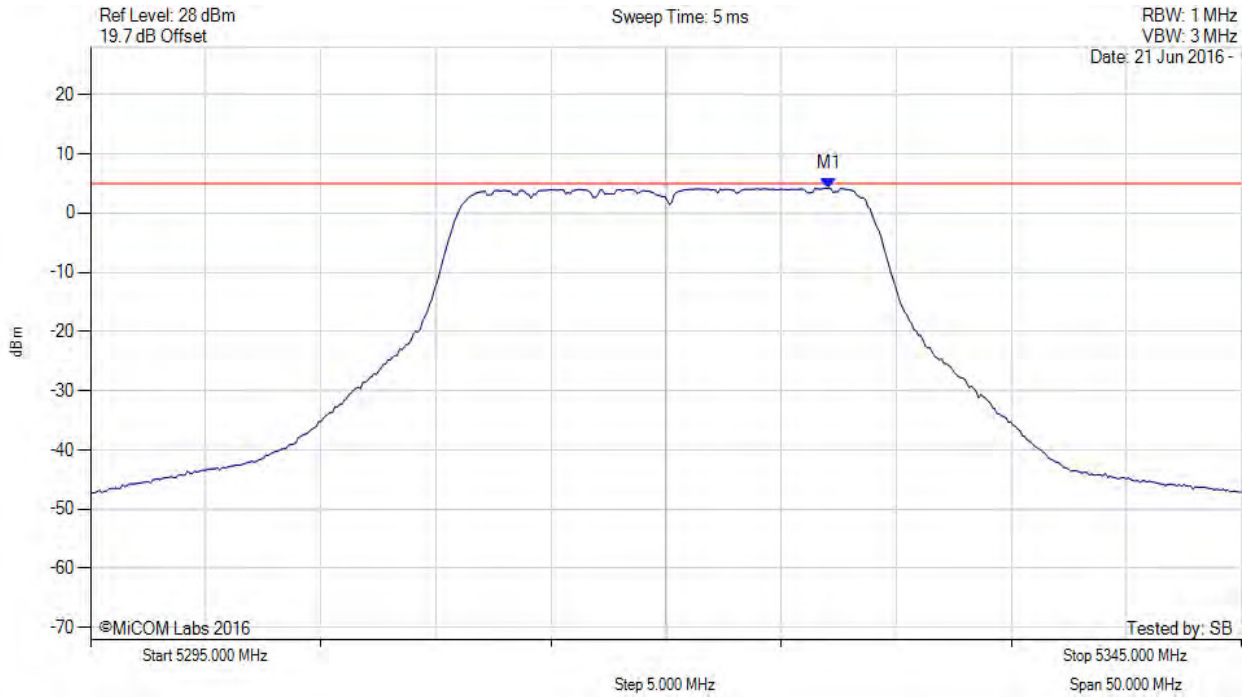


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5327.265 MHz : 4.417 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5335.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

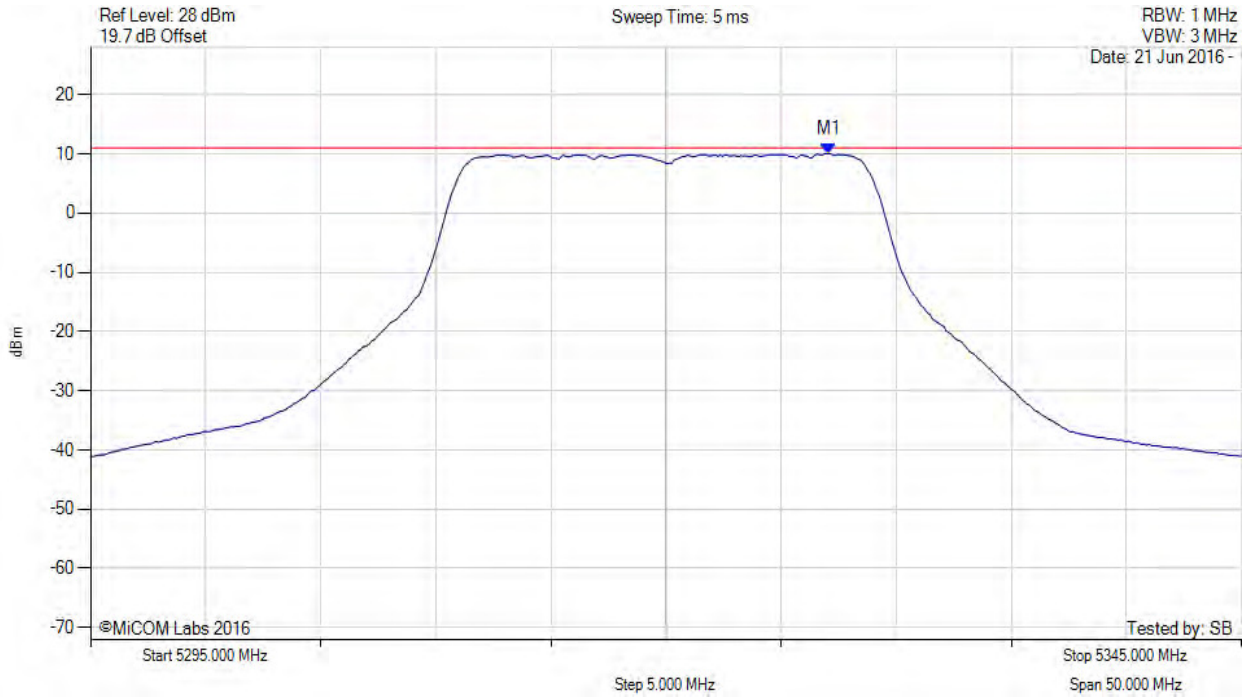


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5327.064 MHz : 4.224 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5335.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

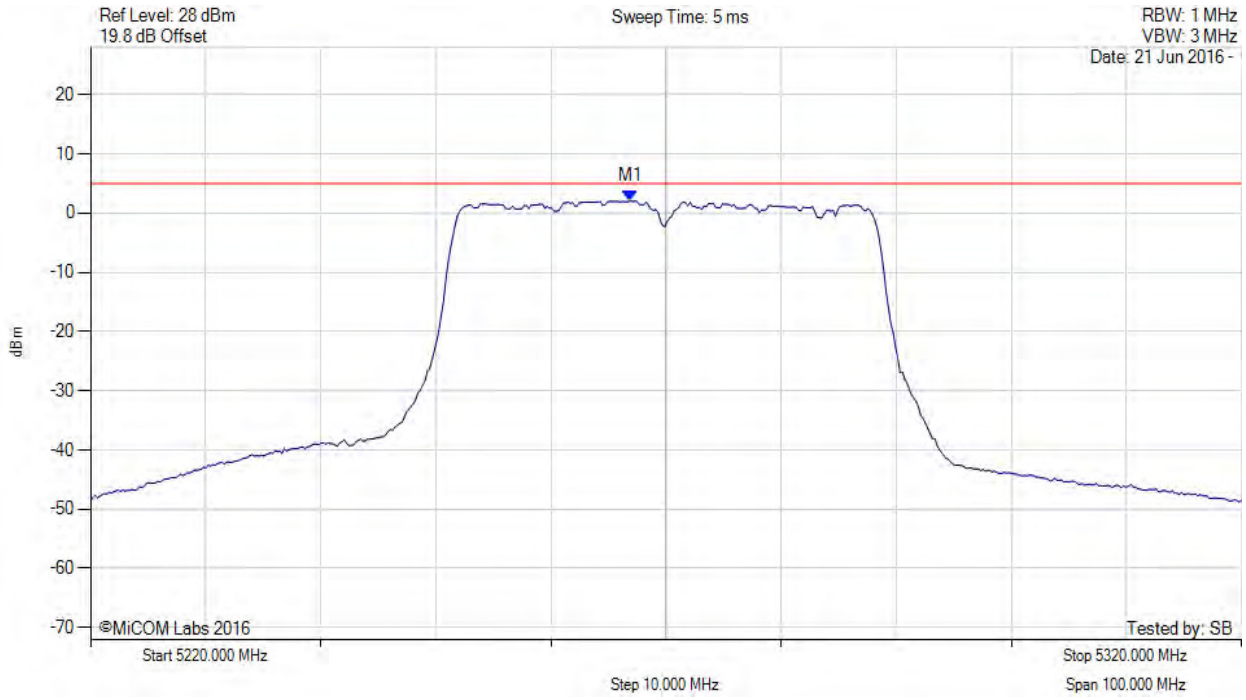


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5327.100 MHz : 10.036 dBm M1 + DCCF : 5327.100 MHz : 10.080 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -0.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

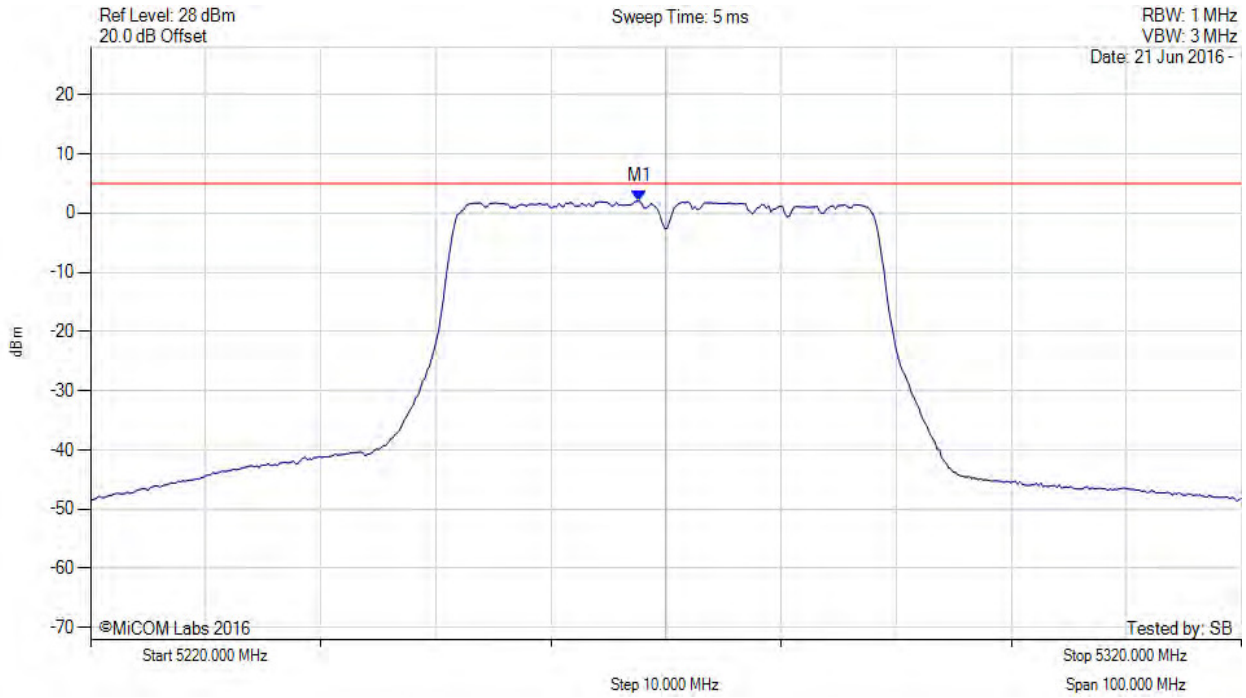


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.894 MHz : 2.043 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

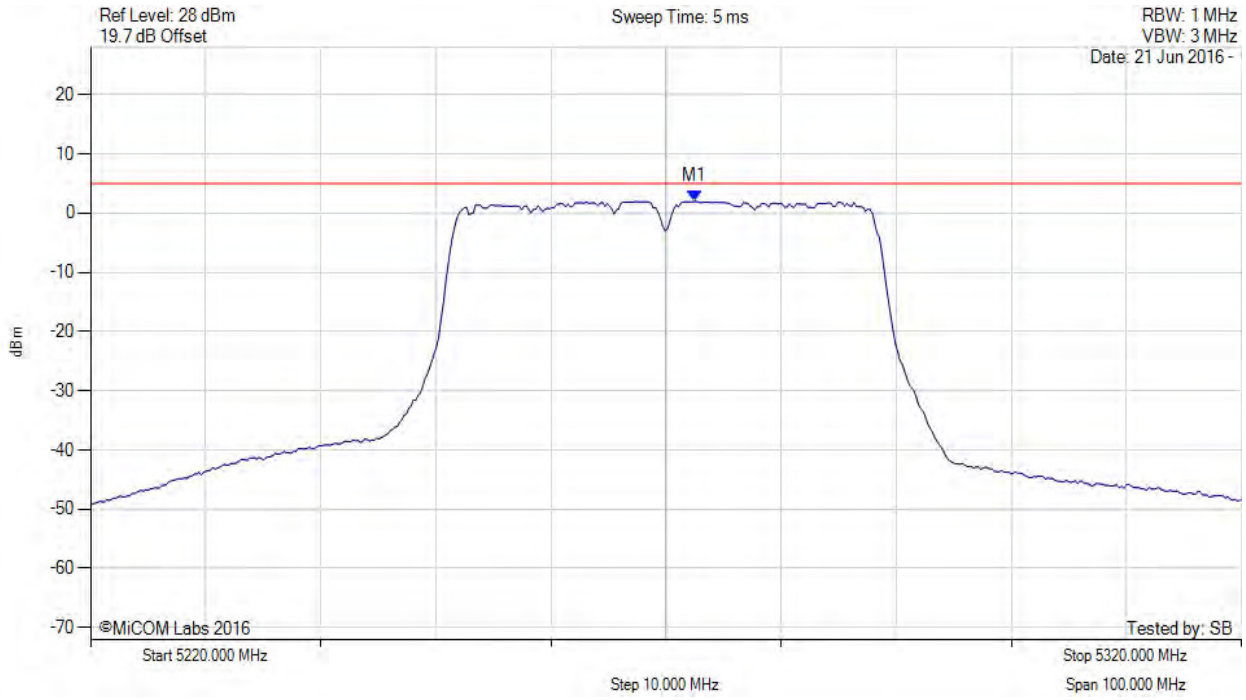


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.695 MHz : 2.012 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

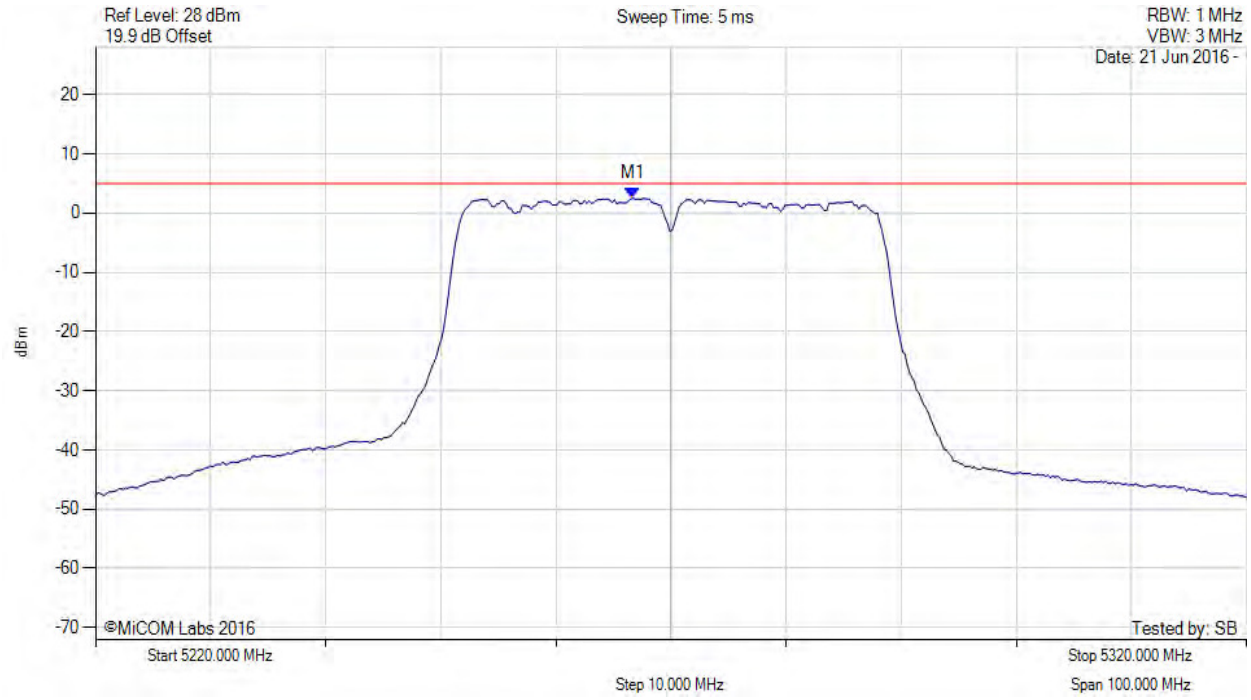


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5272.505 MHz : 1.960 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5270.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

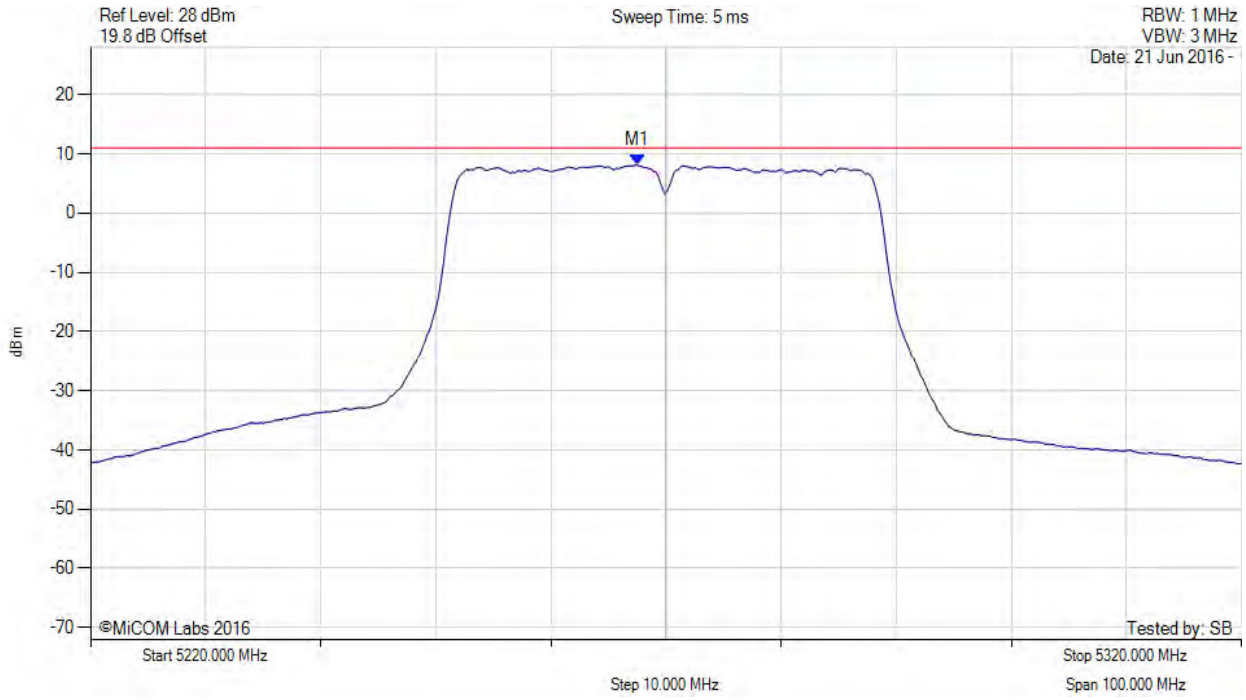


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.693 MHz : 2.498 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5270.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

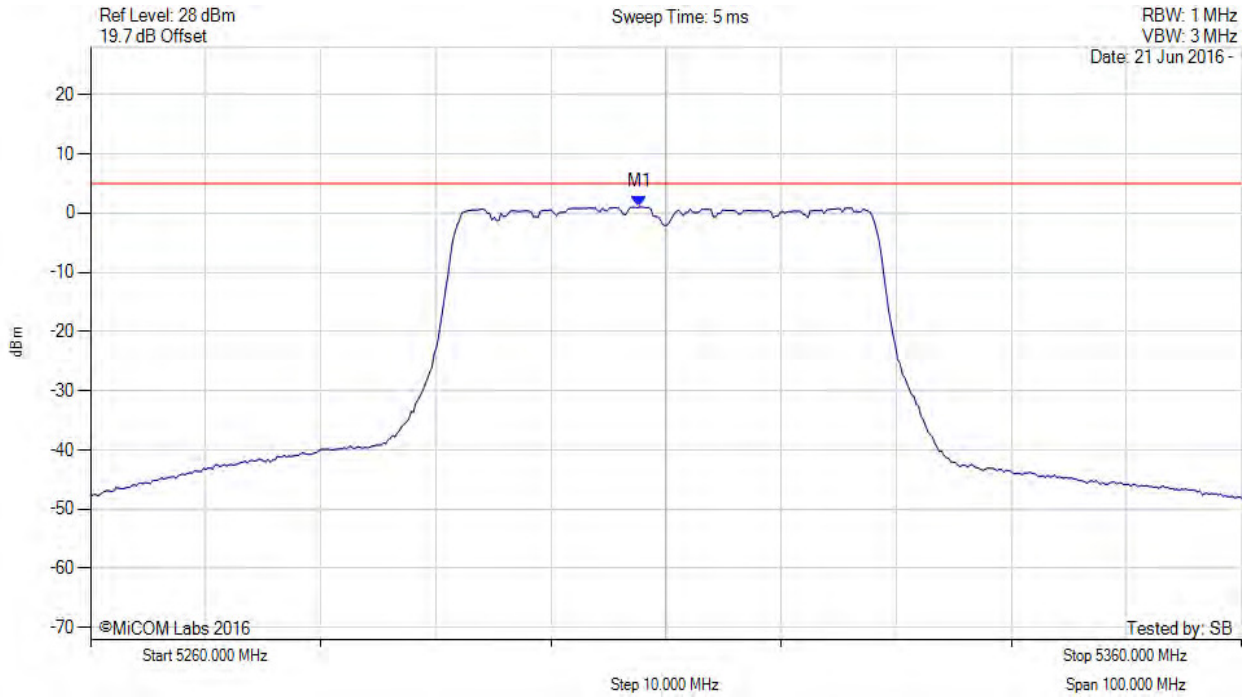


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.500 MHz : 8.098 dBm M1 + DCCF : 5267.500 MHz : 8.142 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -2.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

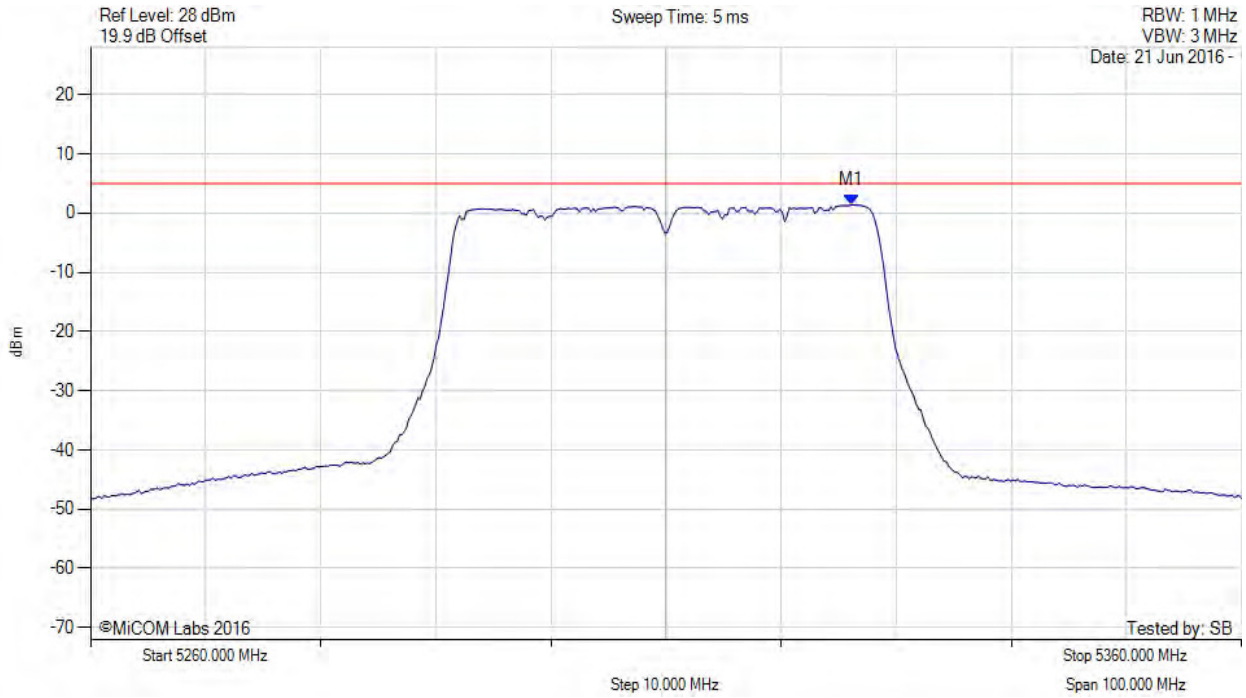


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5307.695 MHz : 1.035 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

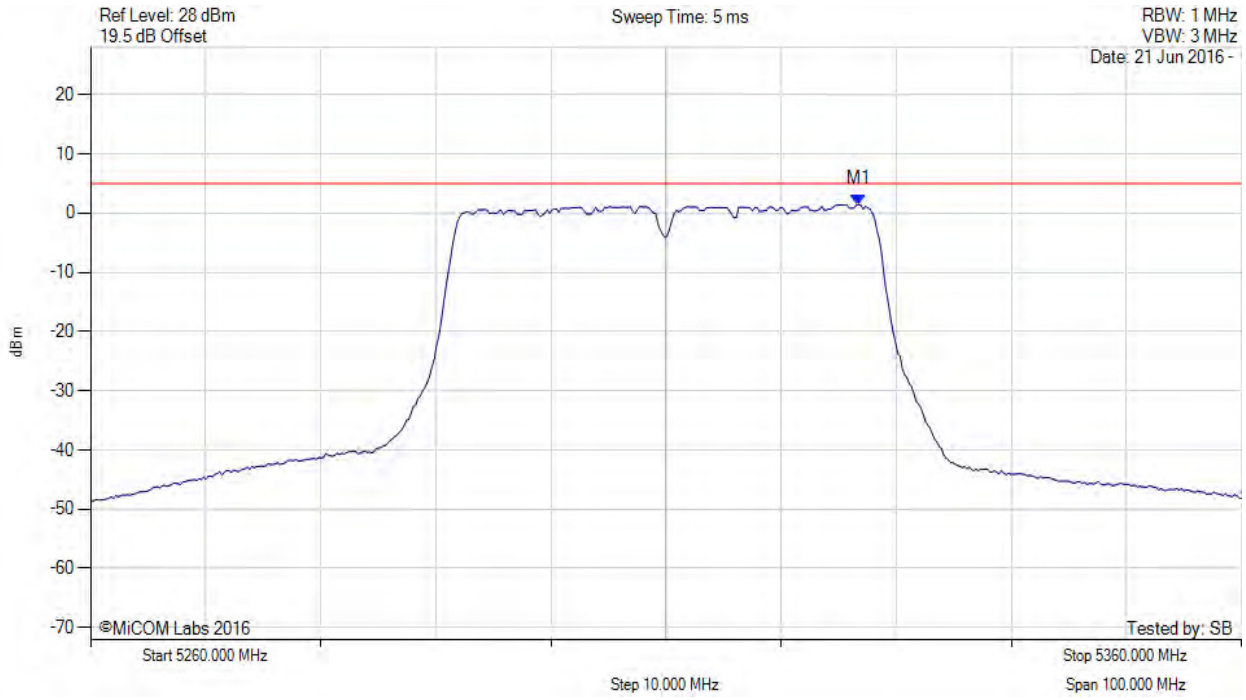


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5326.132 MHz : 1.392 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

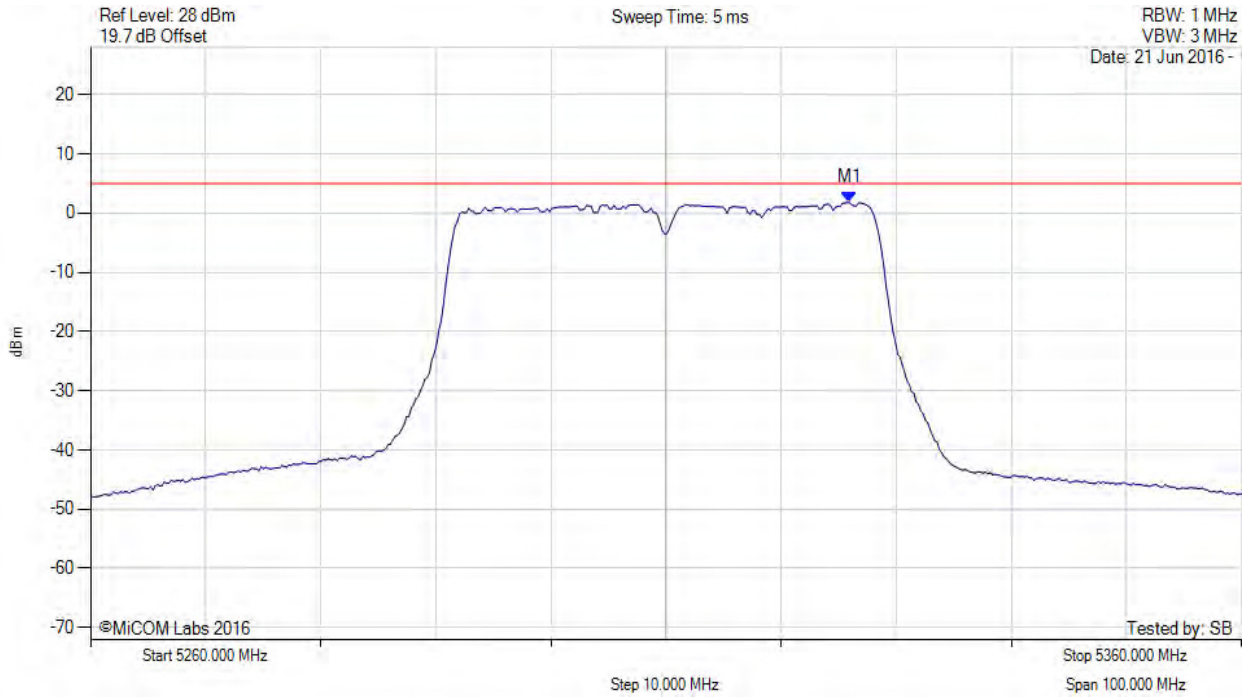


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5326.733 MHz : 1.456 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5330.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

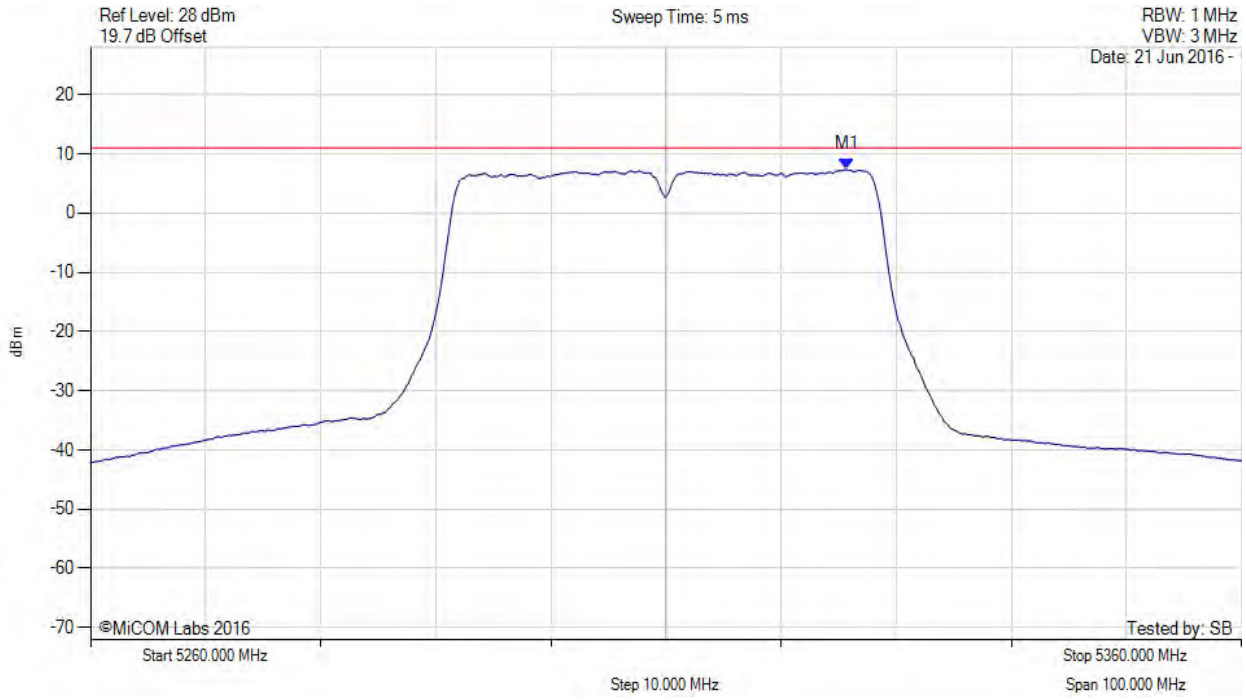


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.932 MHz : 1.788 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5330.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

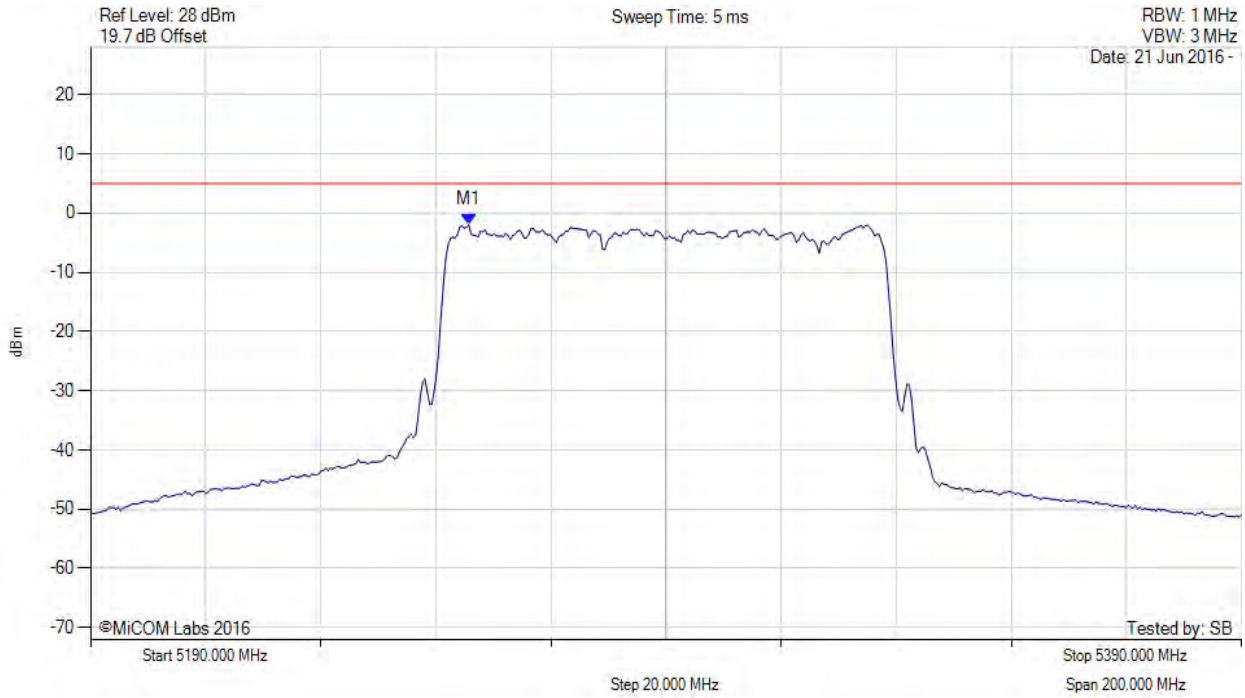


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.700 MHz : 7.325 dBm M1 + DCCF : 5325.700 MHz : 7.369 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -3.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

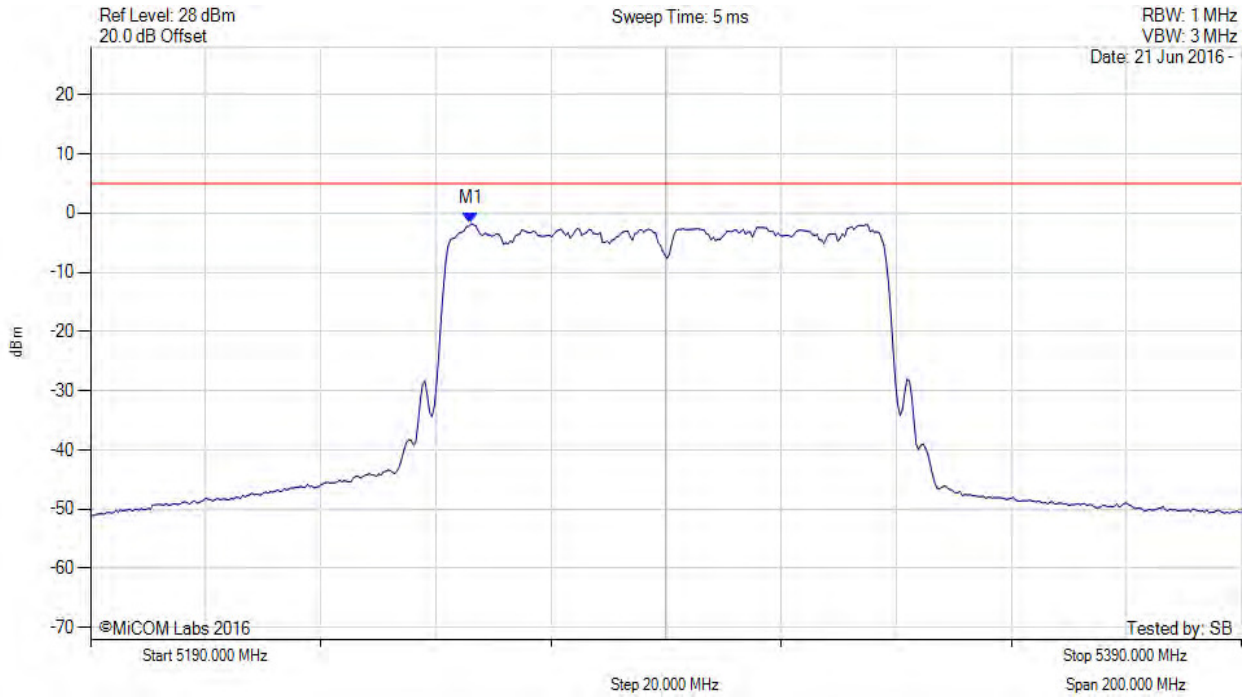


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5255.731 MHz : -1.964 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

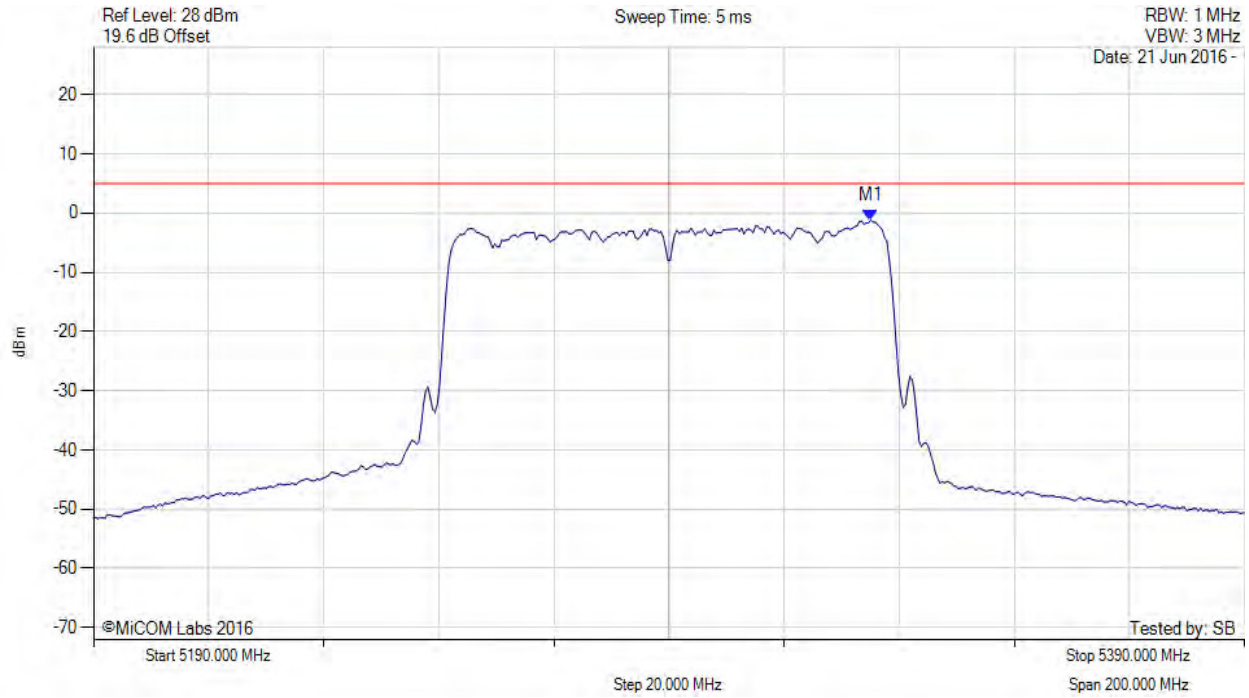


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5256.132 MHz : -1.769 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

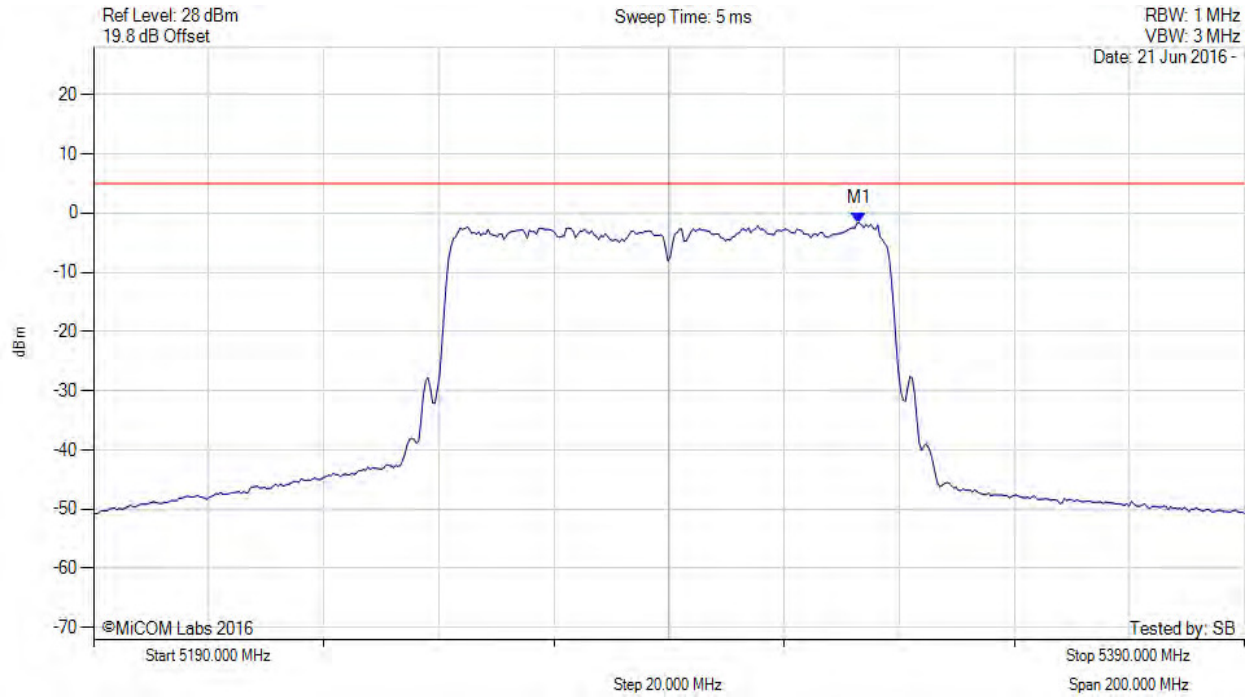


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.070 MHz : -1.142 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5290.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

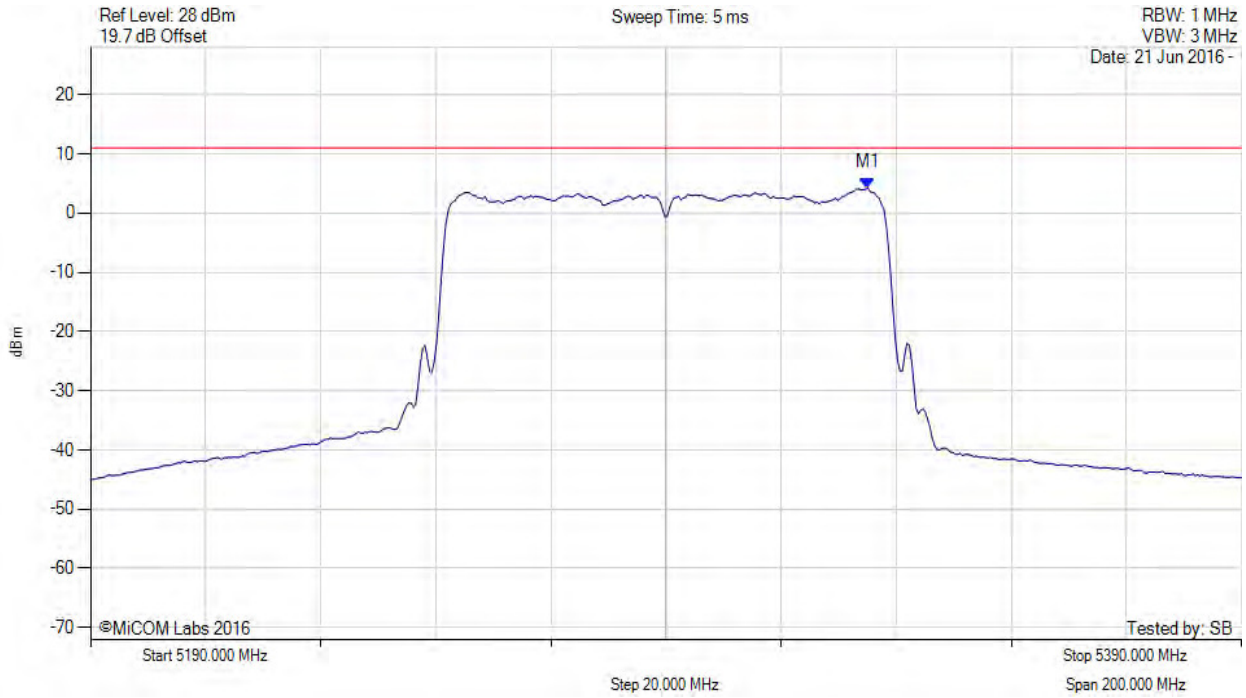


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5323.066 MHz : -1.619 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5290.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

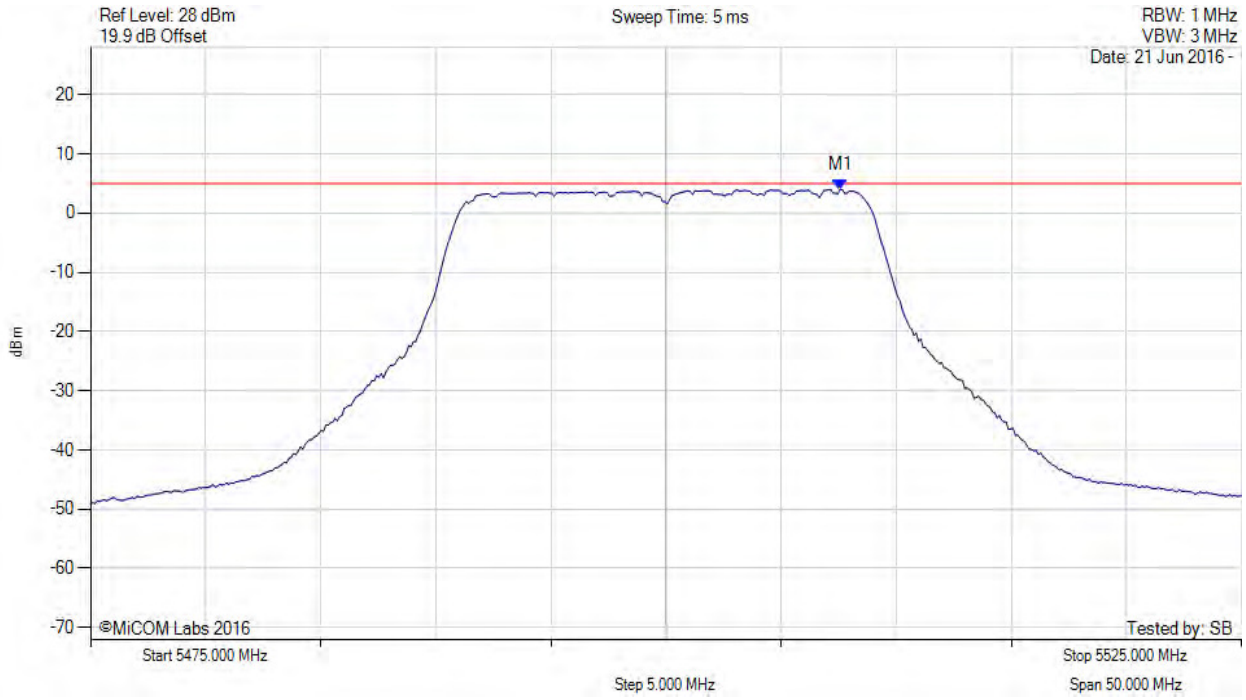


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.100 MHz : 4.261 dBm M1 + DCCF : 5325.100 MHz : 4.305 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -6.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

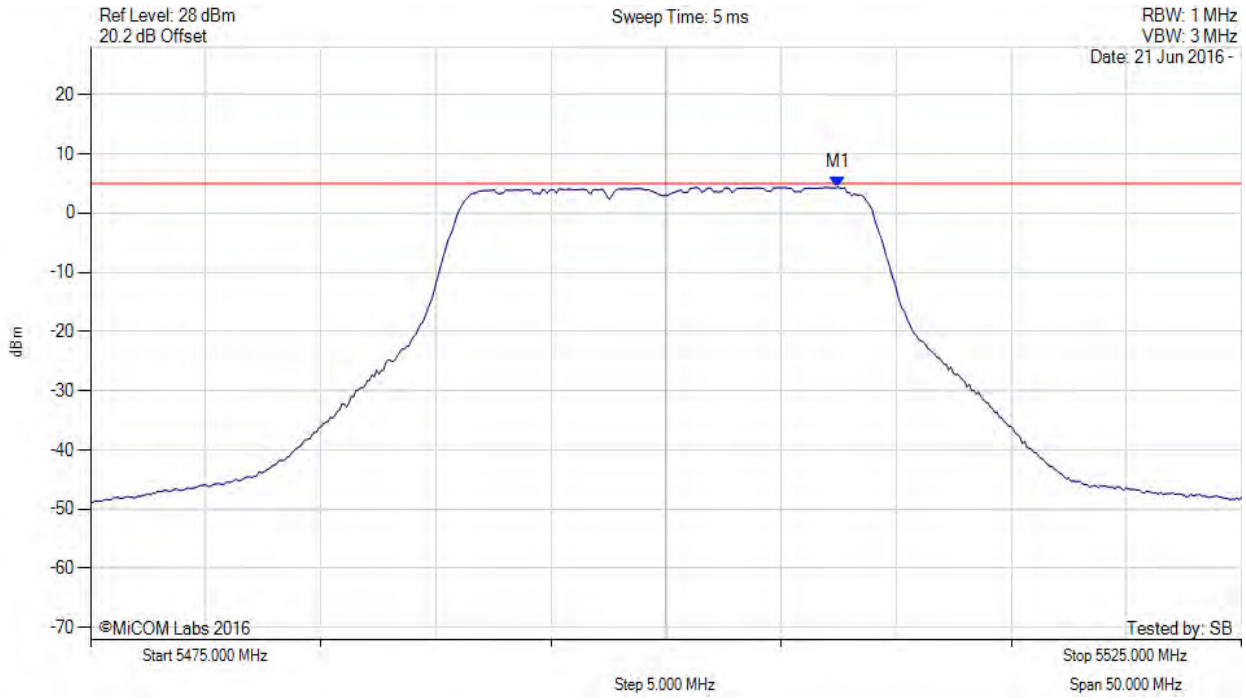


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.565 MHz : 3.965 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

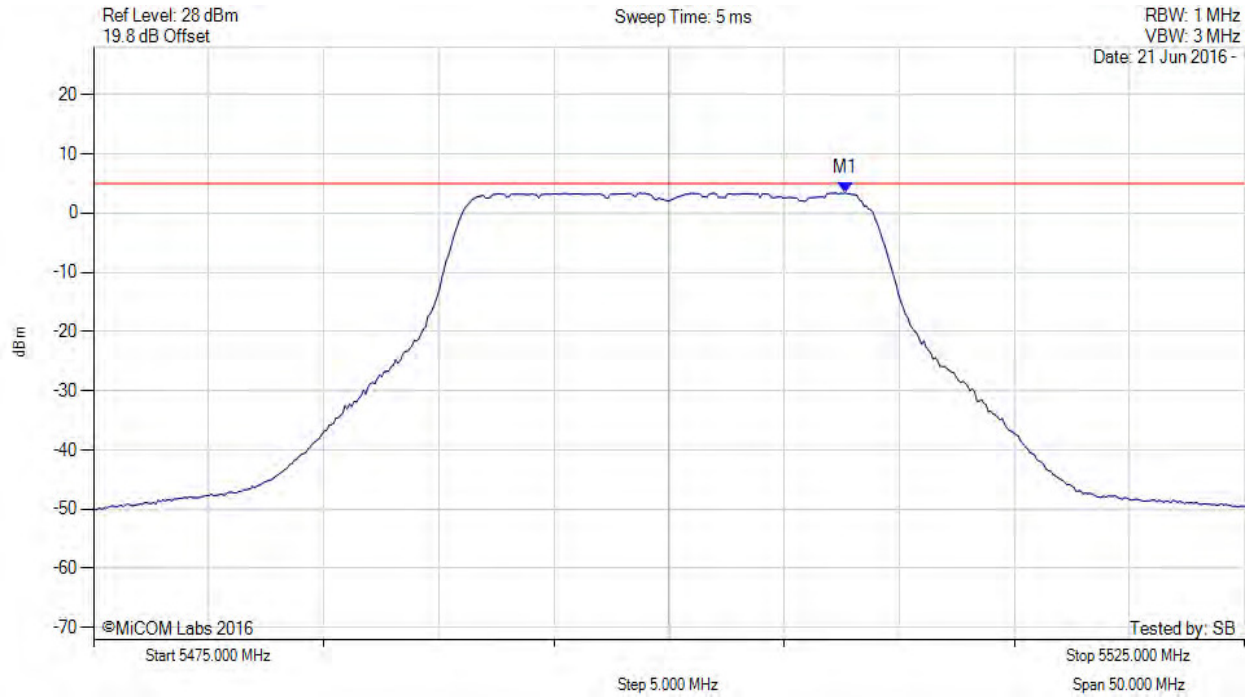


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.465 MHz : 4.353 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

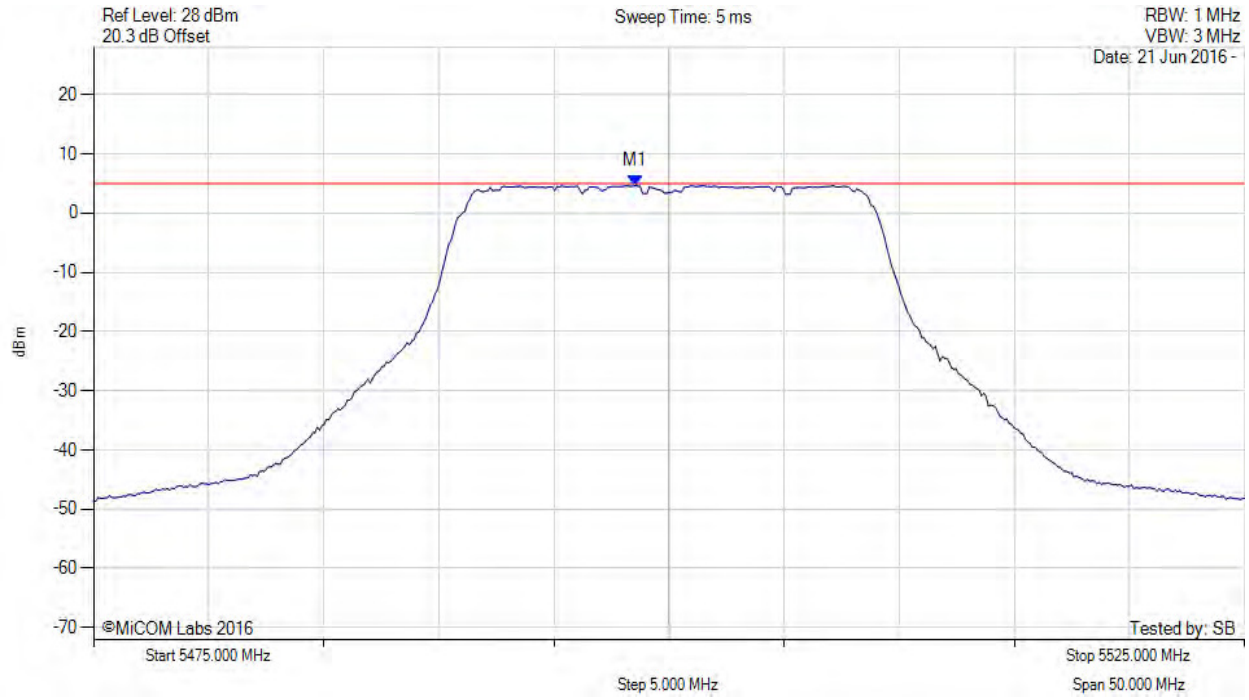


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.665 MHz : 3.427 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5485.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

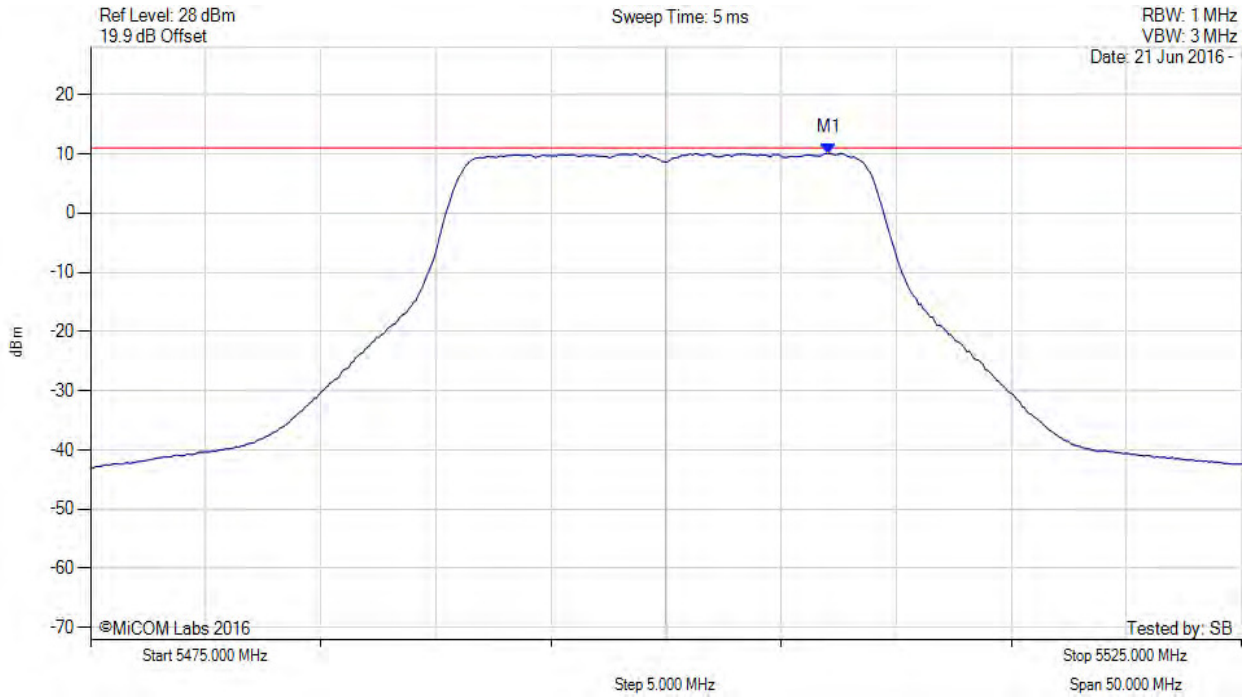


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5498.547 MHz : 4.691 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5485.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

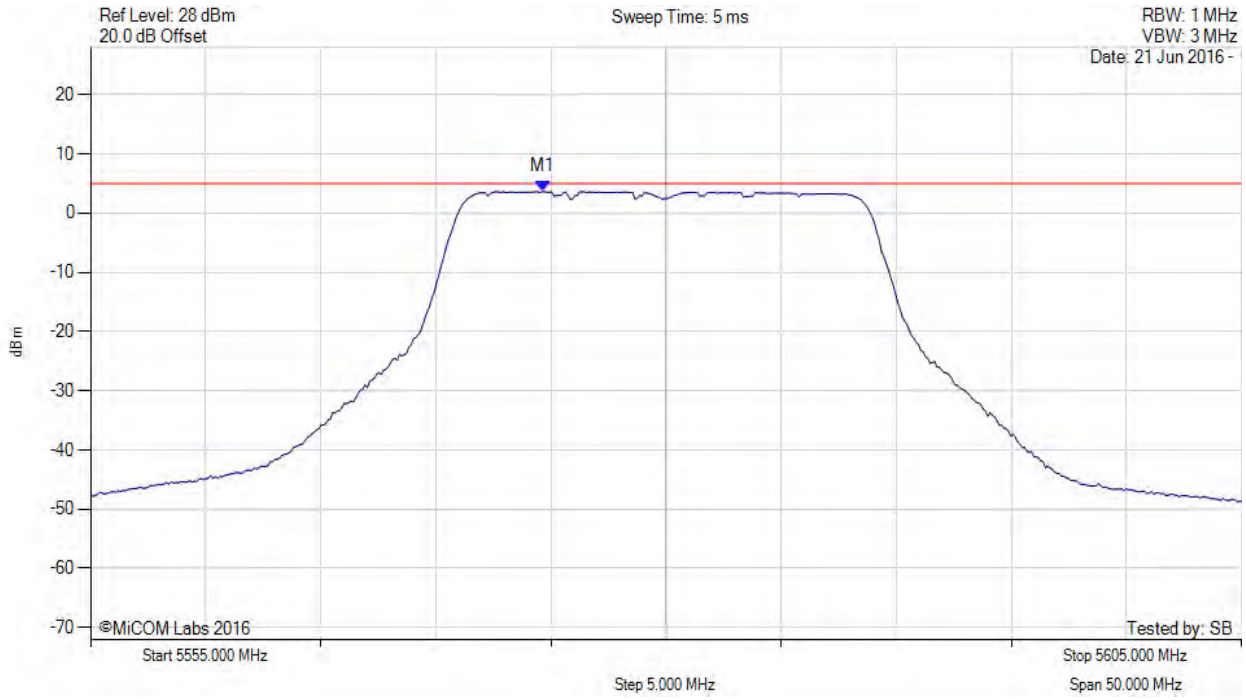


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.100 MHz : 10.085 dBm M1 + DCCF : 5507.100 MHz : 10.129 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -0.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

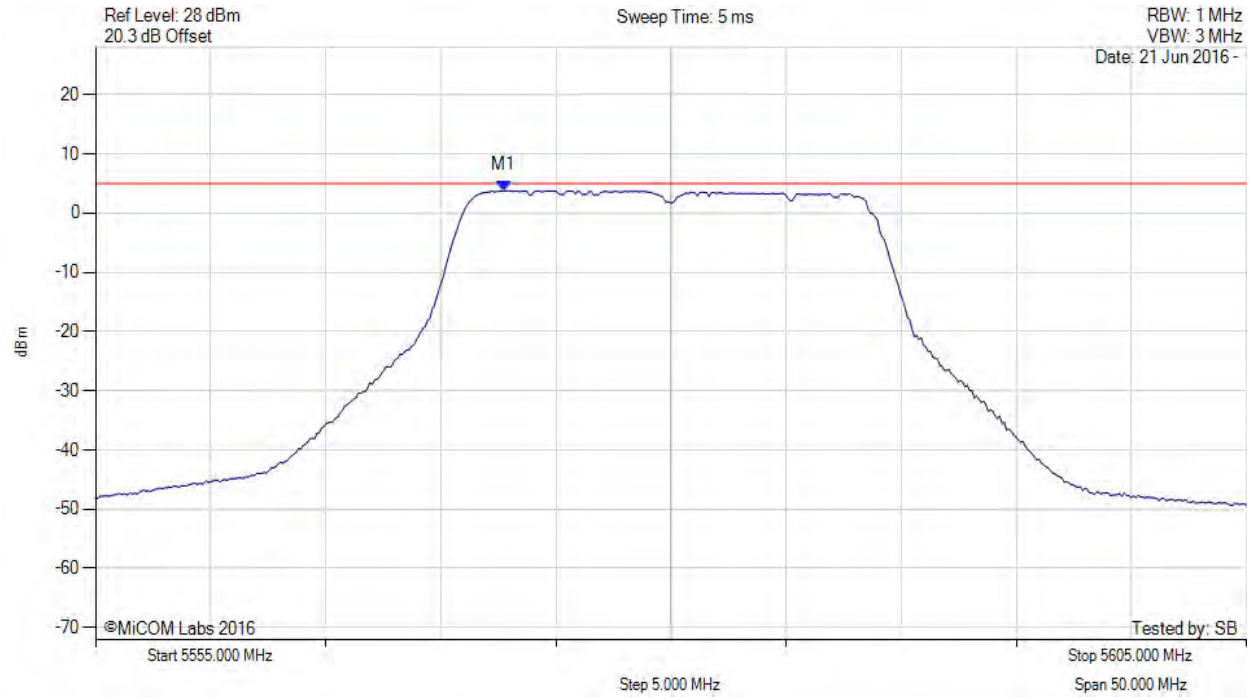


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.639 MHz : 3.642 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

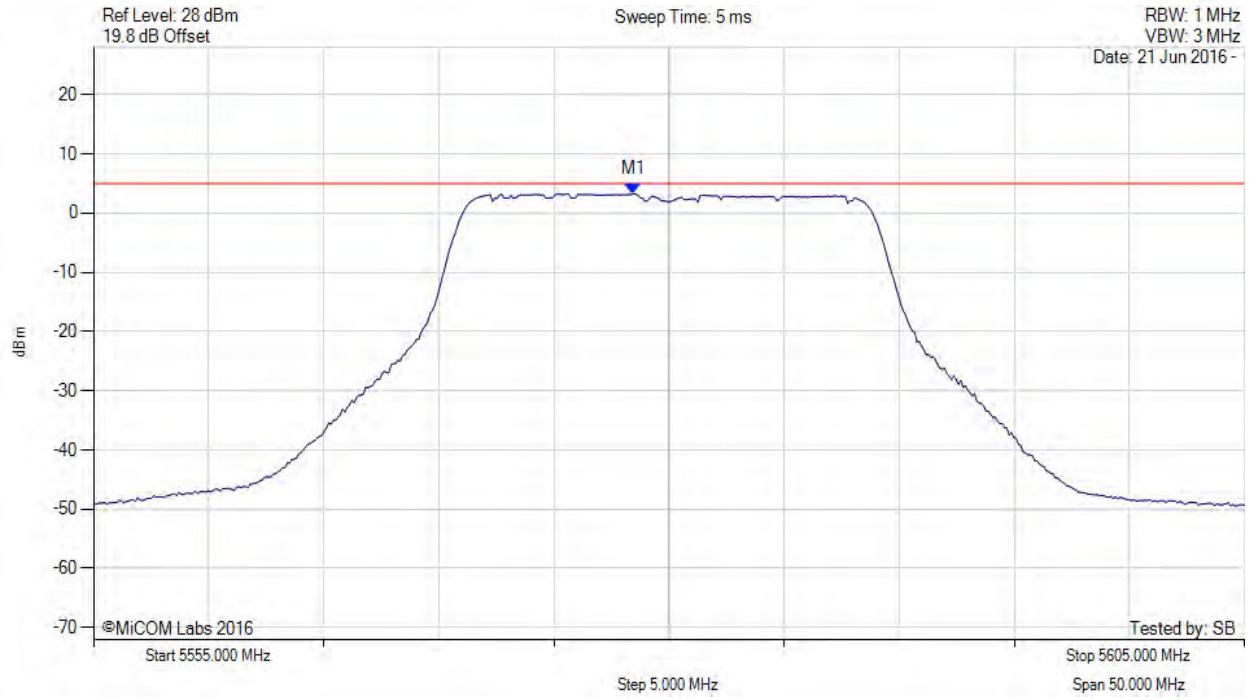


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5572.735 MHz : 3.774 dBm	Channel Frequency: 5580.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

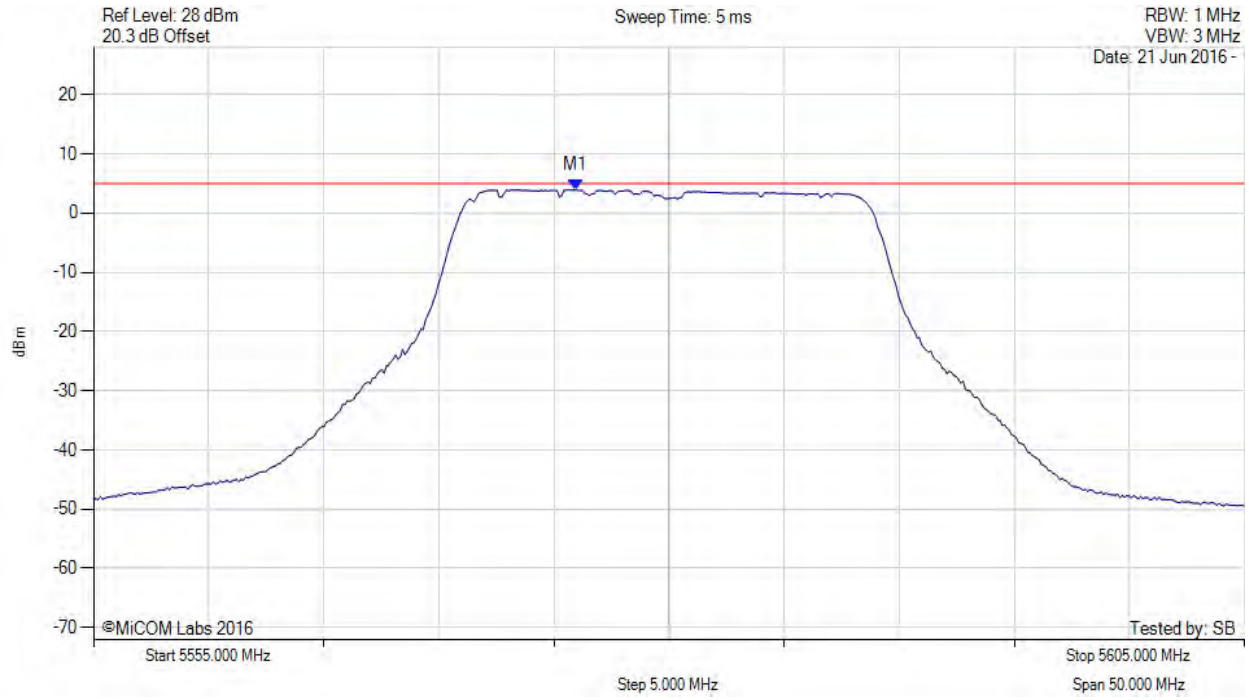


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5578.447 MHz : 3.268 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5580.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

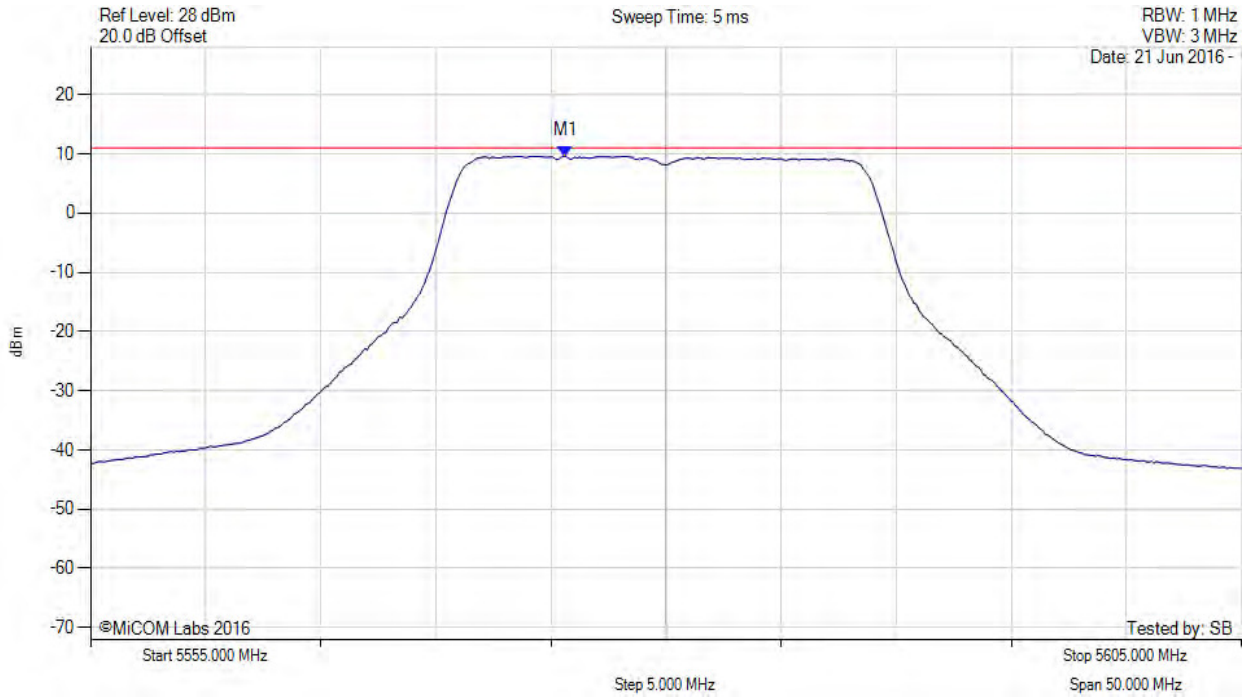


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.942 MHz : 3.914 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

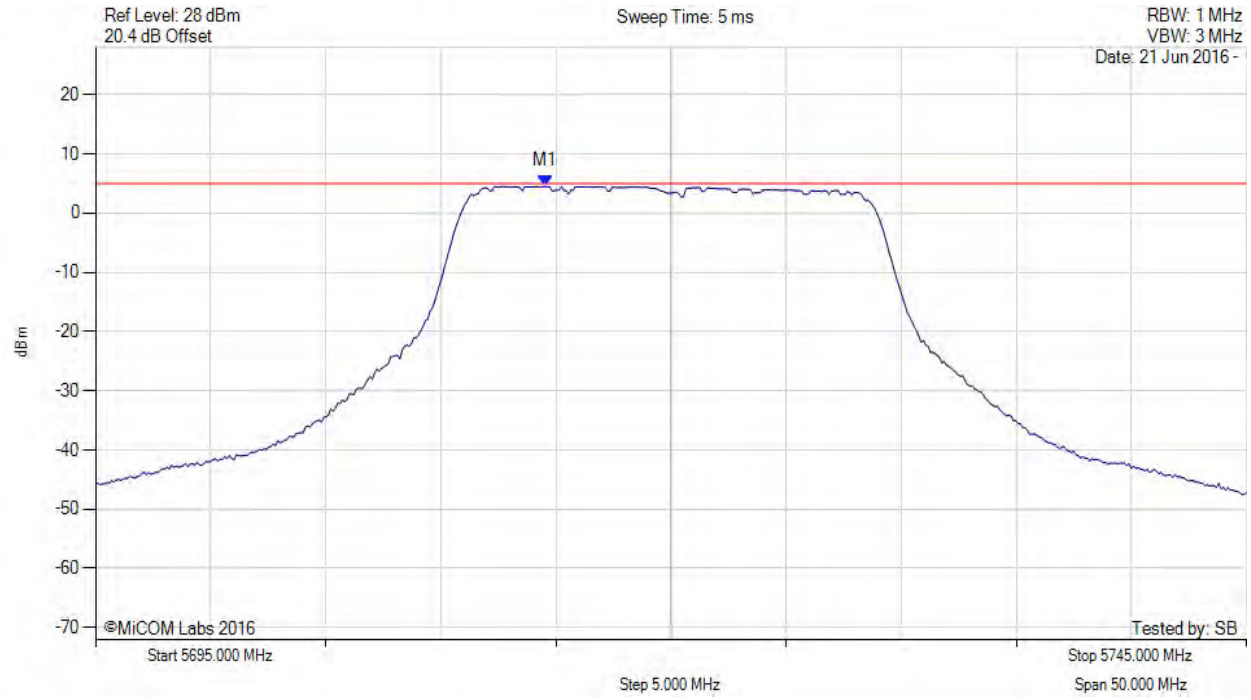


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.600 MHz : 9.616 dBm M1 + DCCF : 5575.600 MHz : 9.660 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -1.4 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

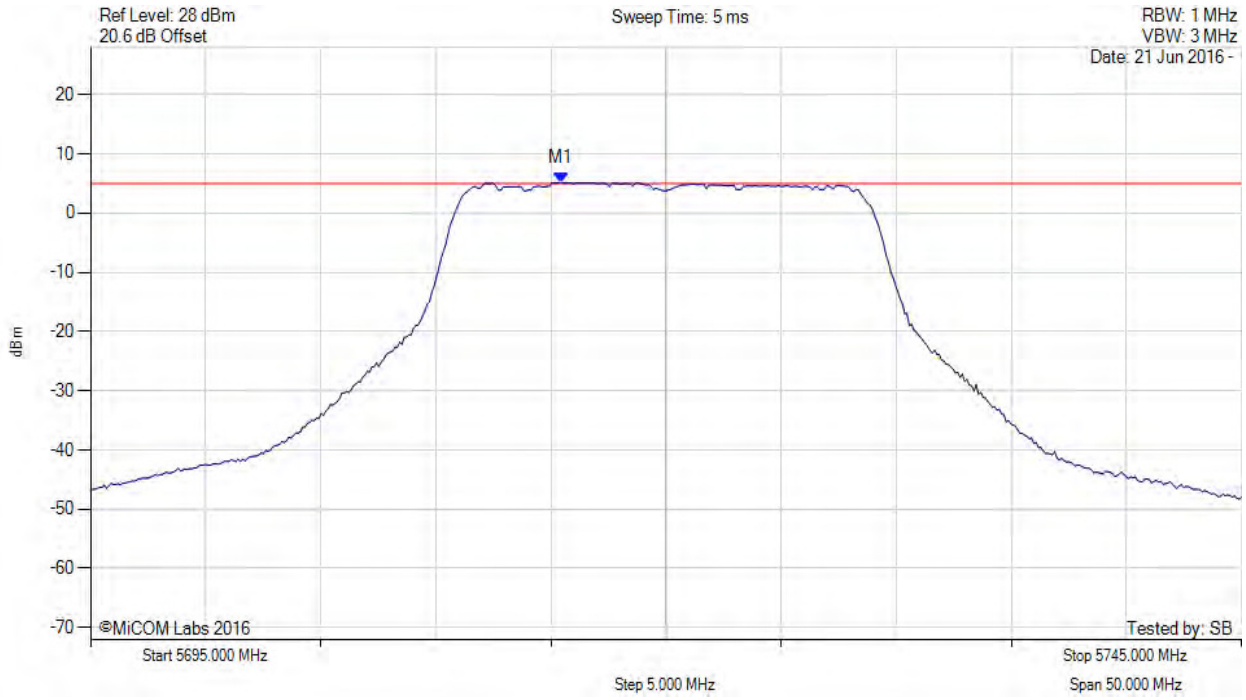


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5714.539 MHz : 4.516 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

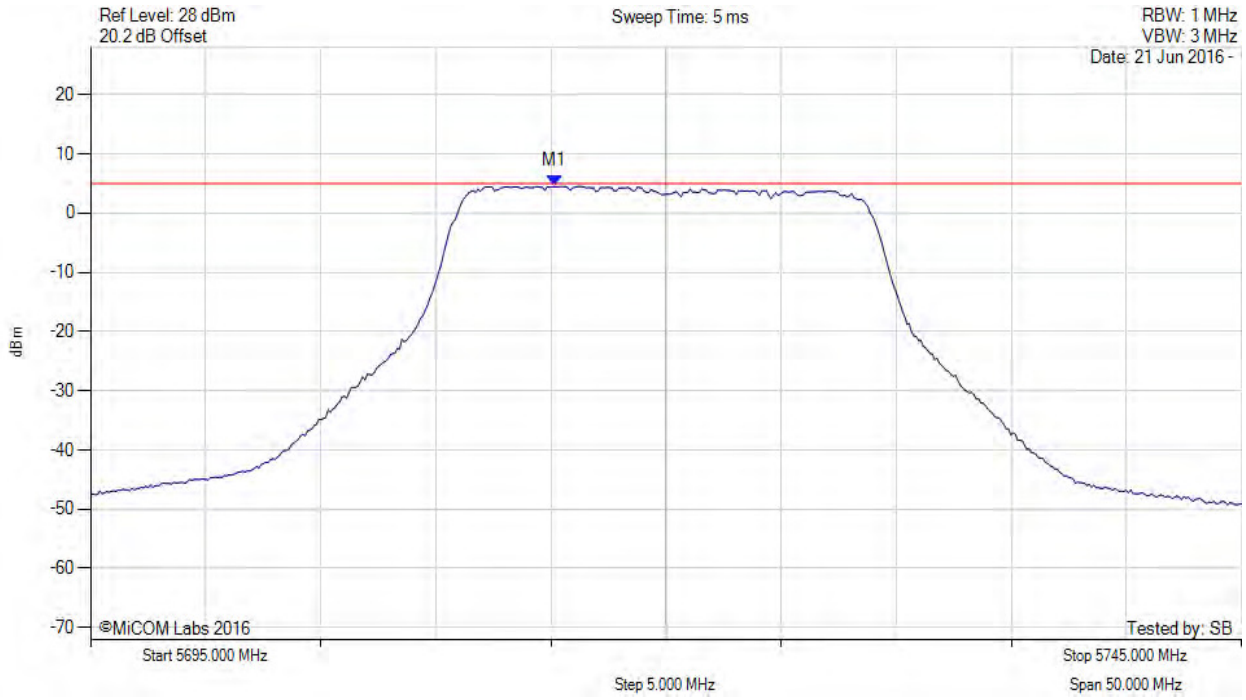


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5715.441 MHz : 5.160 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

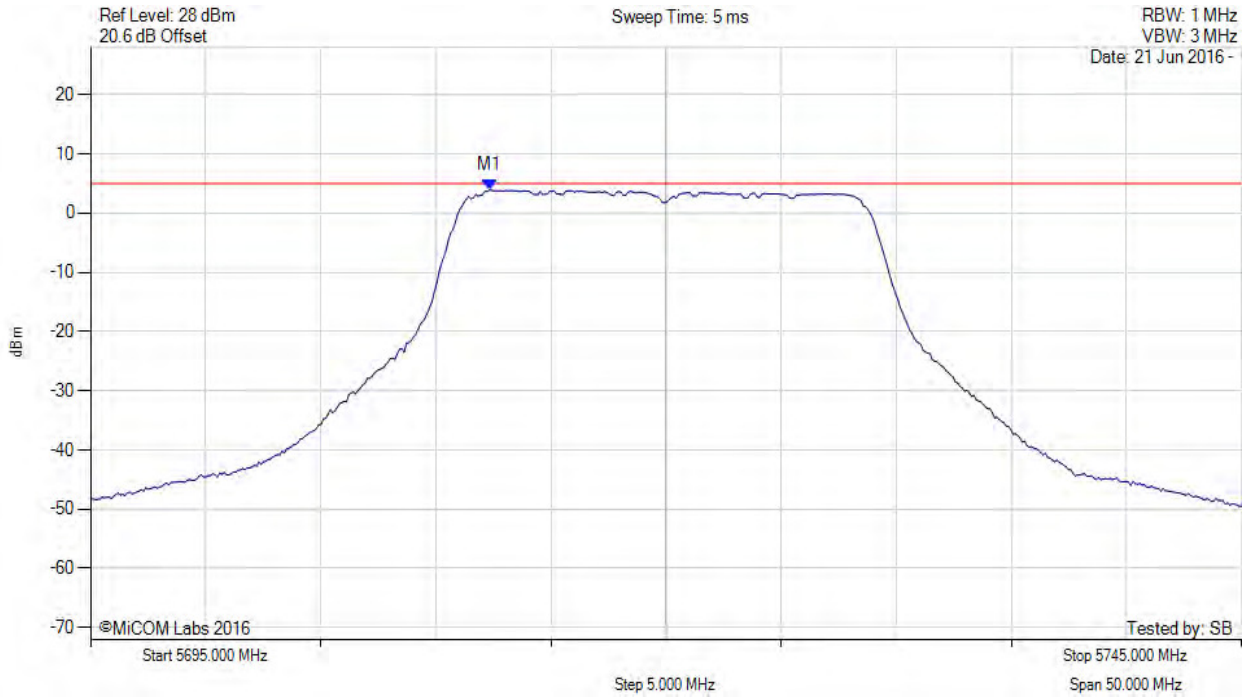


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5715.140 MHz : 4.502 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5720.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

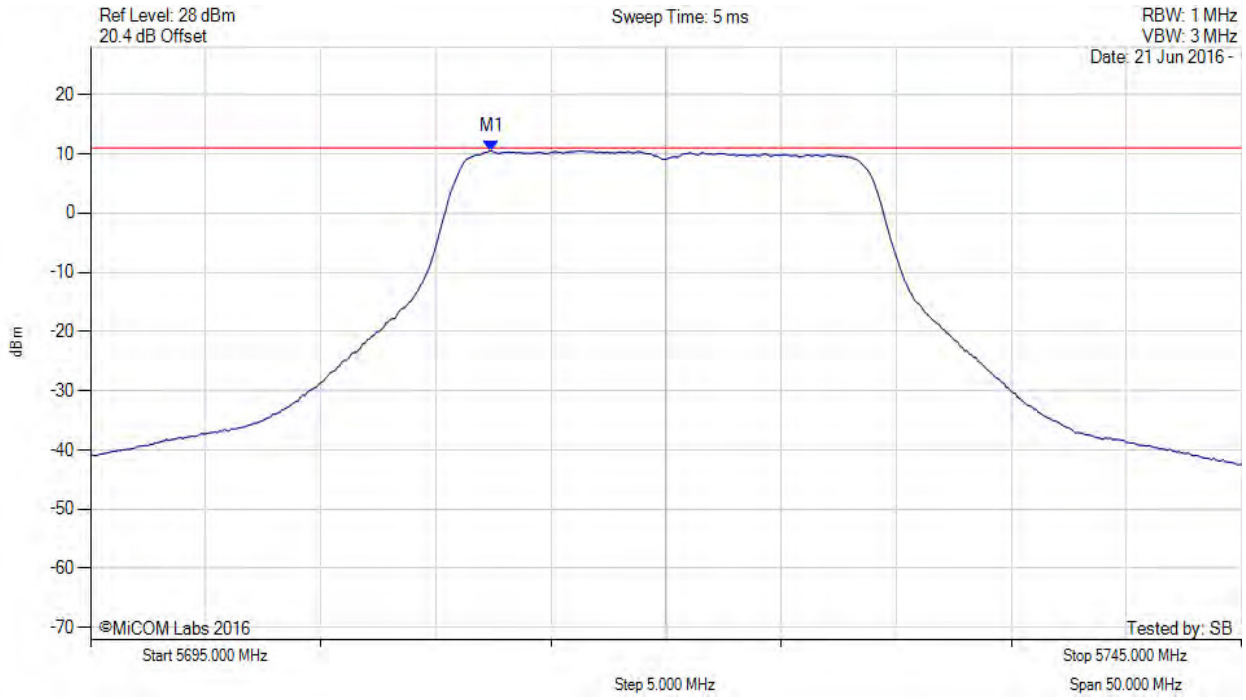


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5712.335 MHz : 3.889 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 20, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

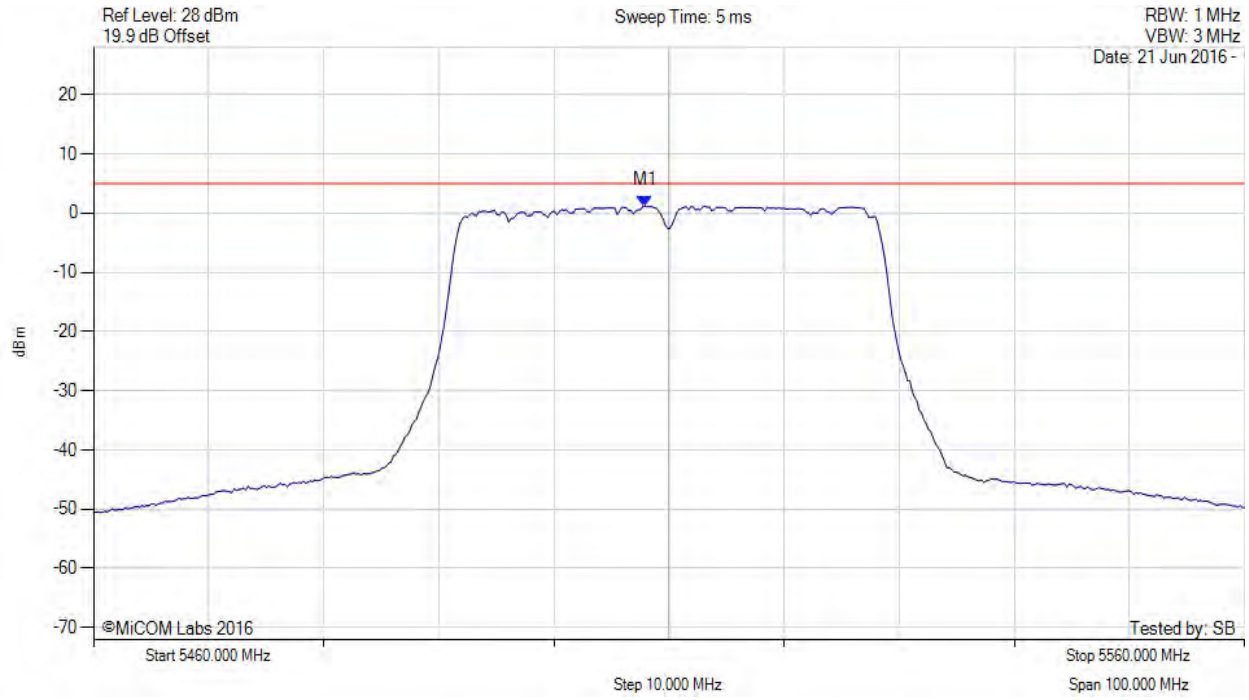


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5712.400 MHz : 10.485 dBm M1 + DCCF : 5712.400 MHz : 10.529 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -0.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

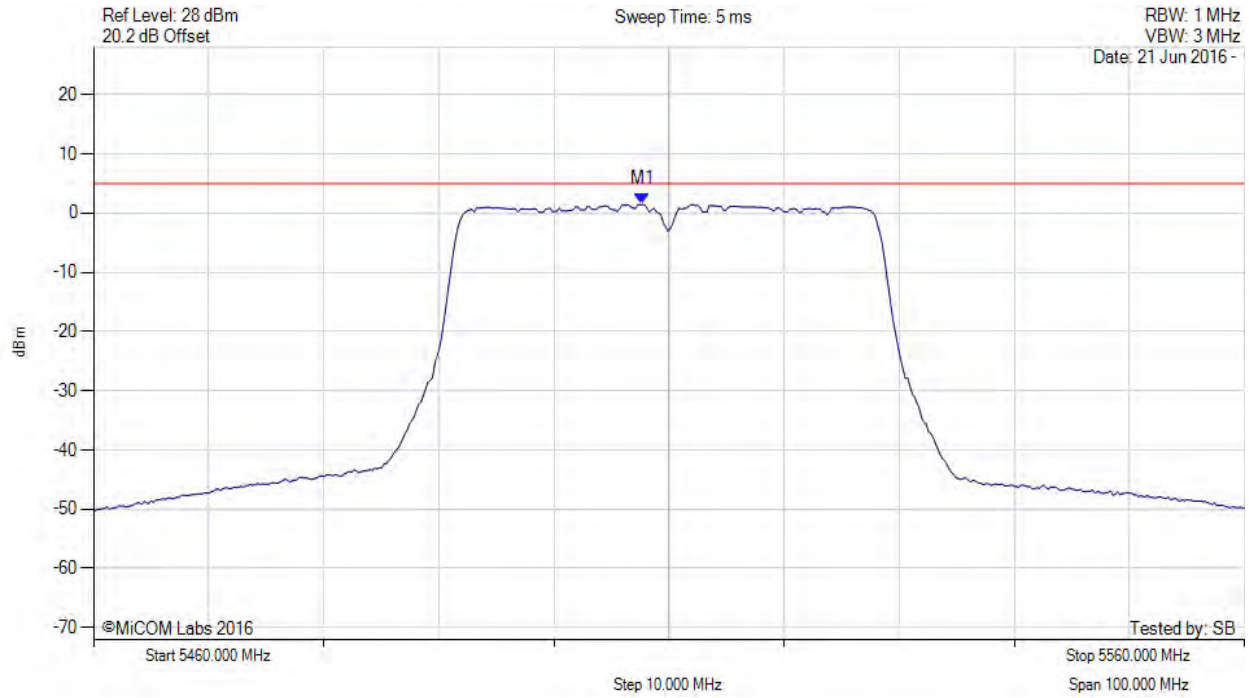


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.896 MHz : 1.223 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

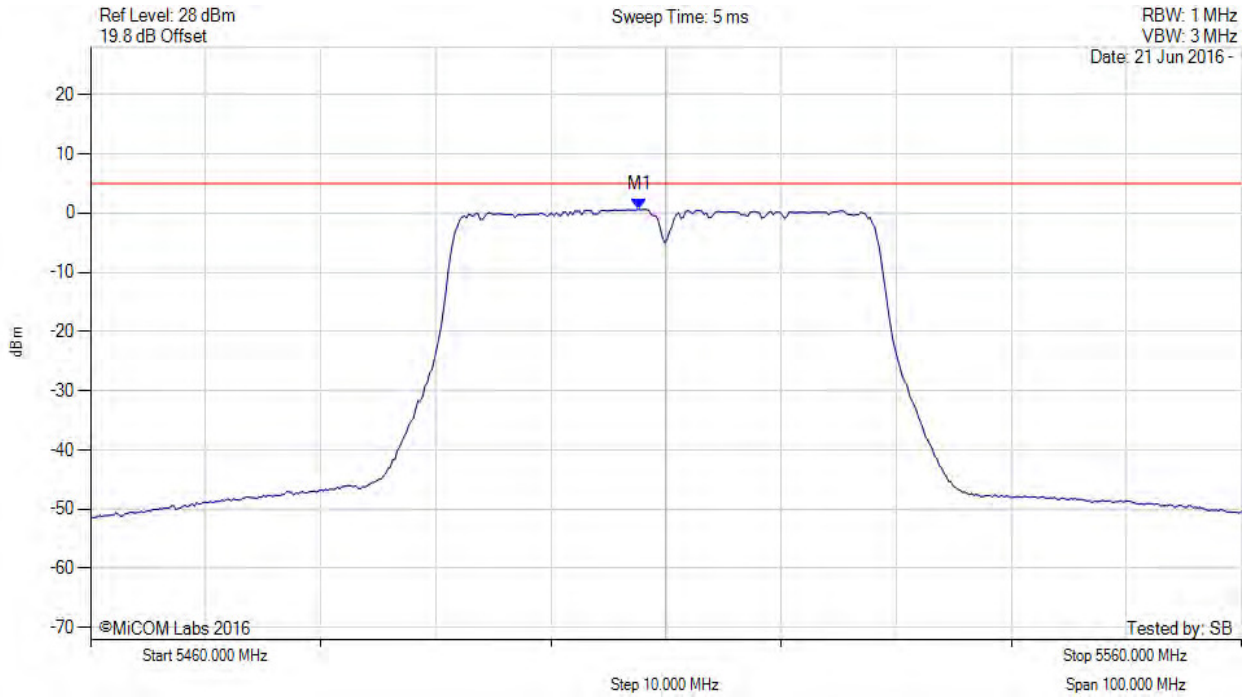


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.695 MHz : 1.464 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

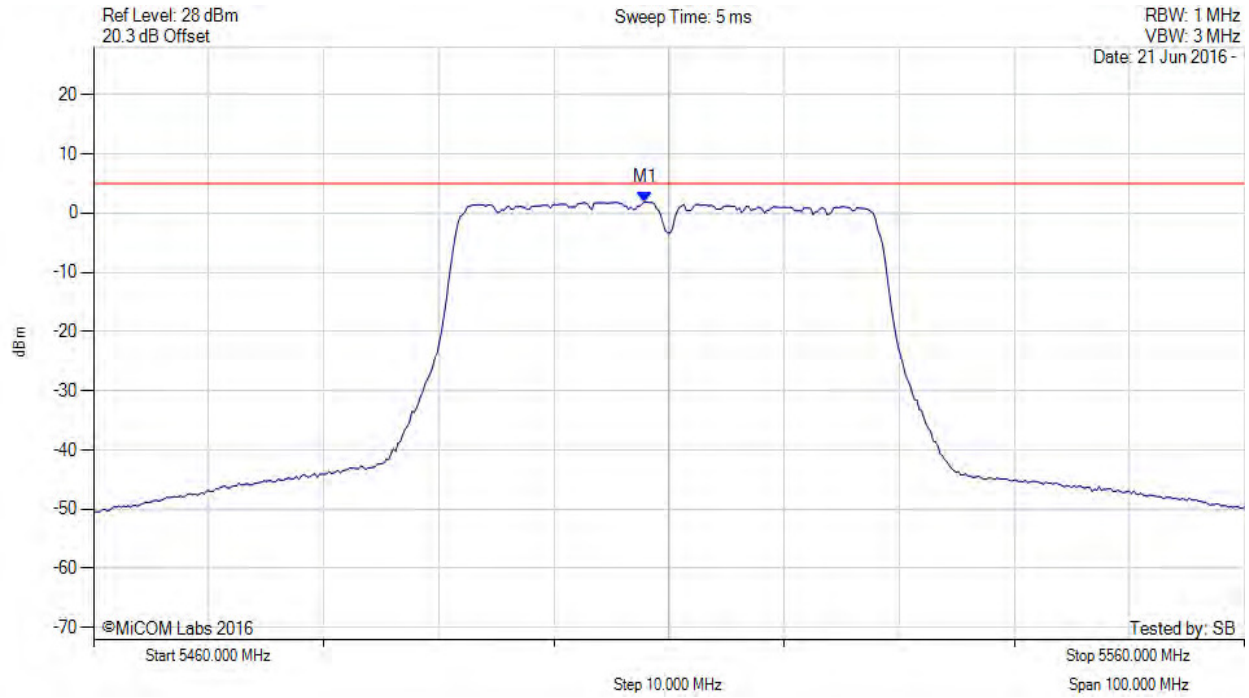


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.695 MHz : 0.629 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5510.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

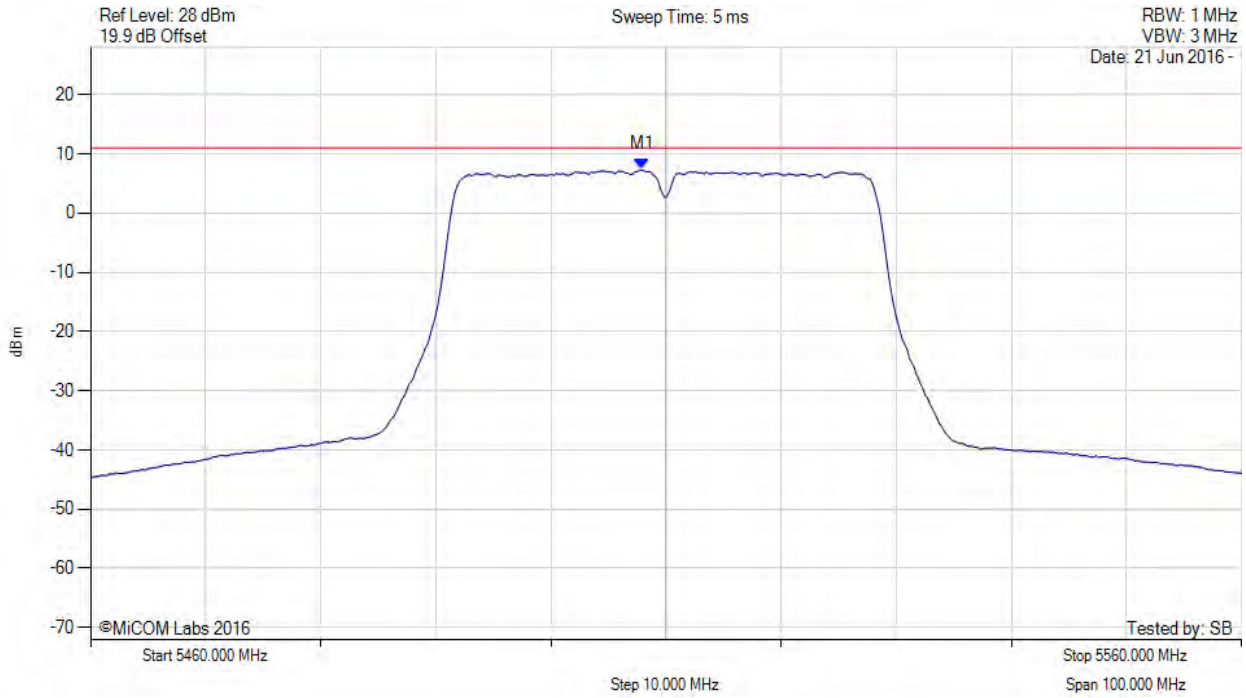


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.896 MHz : 1.865 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5510.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

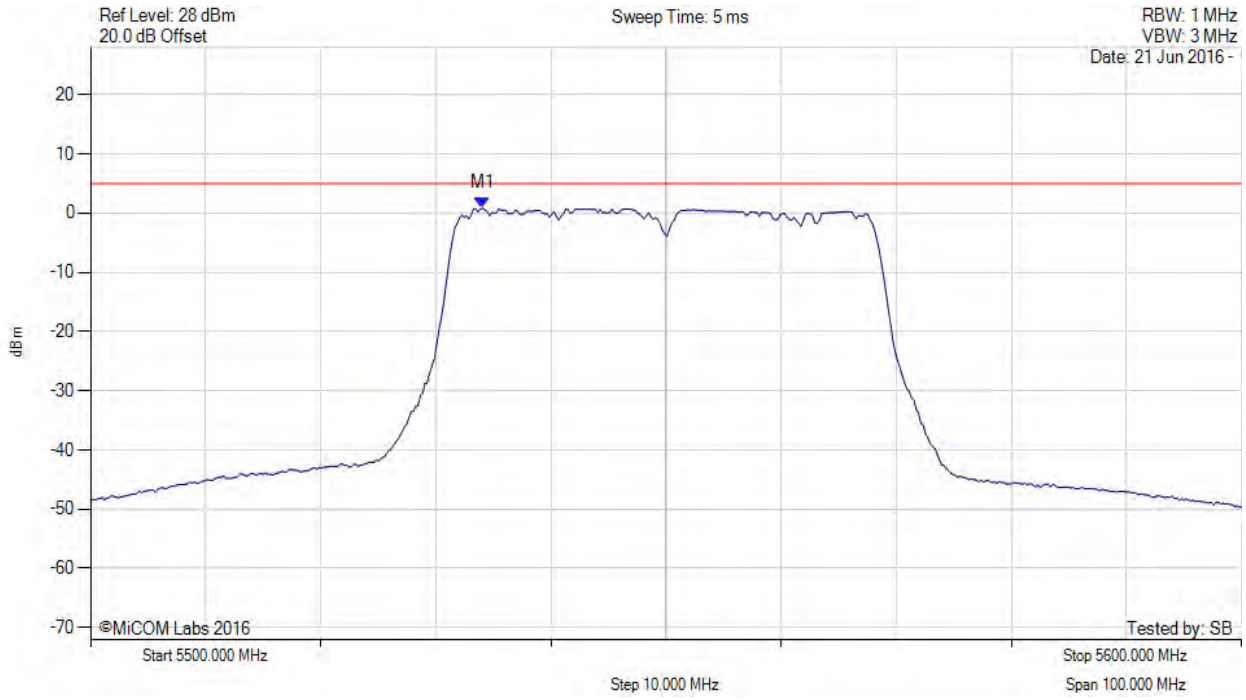


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.900 MHz : 7.303 dBm M1 + DCCF : 5507.900 MHz : 7.347 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -3.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

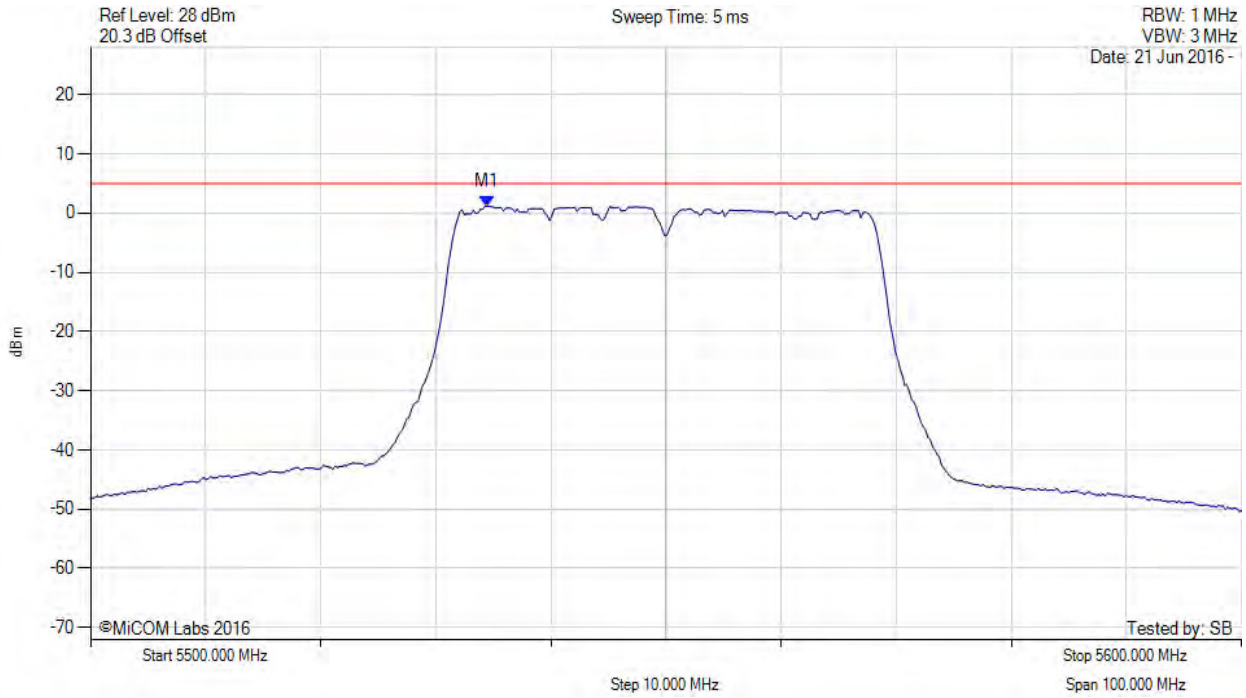


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5534.068 MHz : 0.813 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

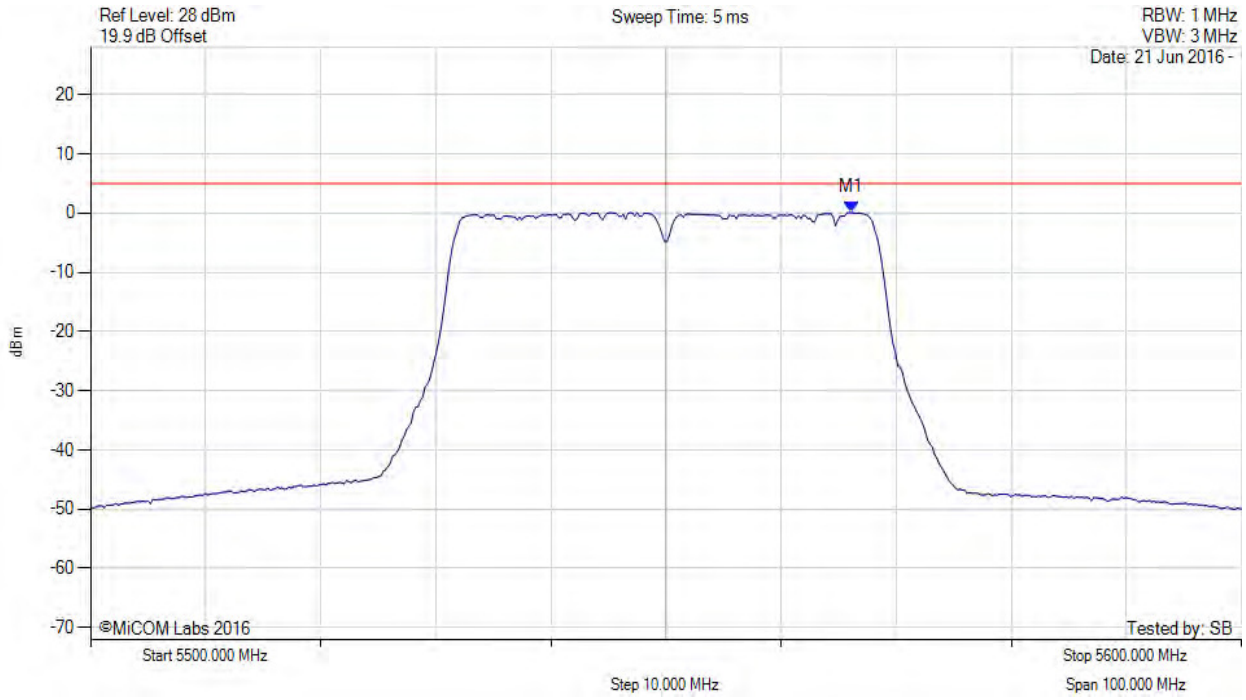


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5534.469 MHz : 1.174 dBm	Channel Frequency: 5550.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

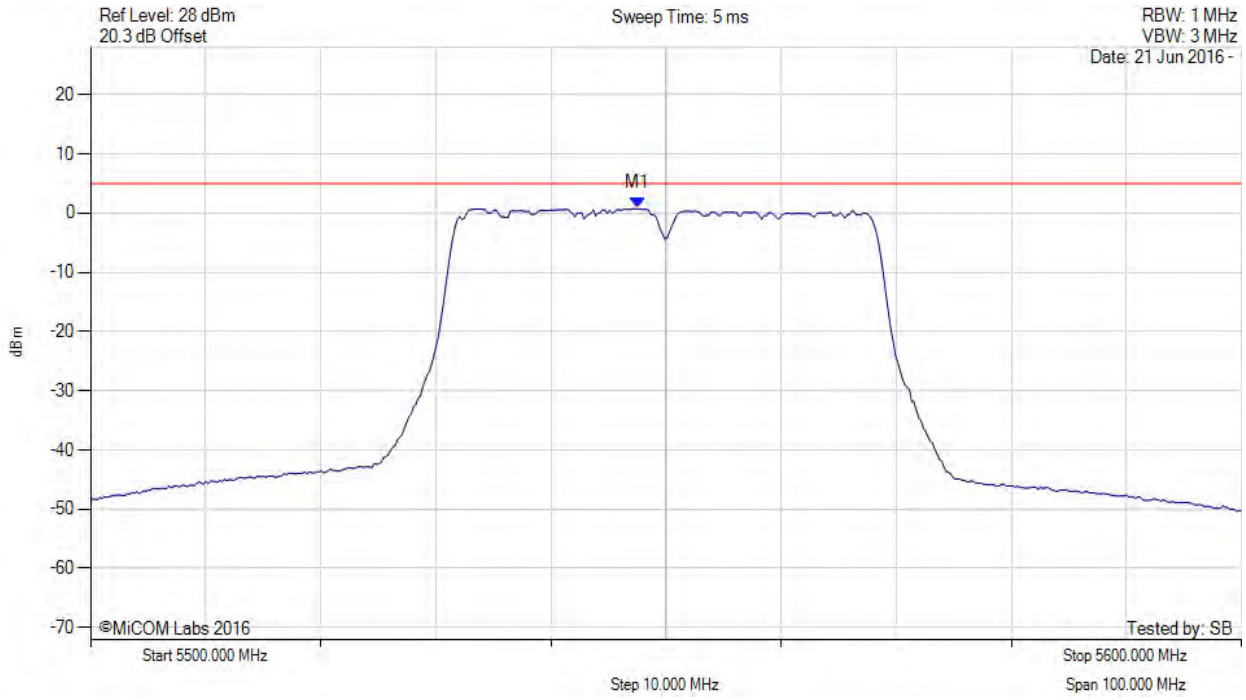


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5566.132 MHz : 0.098 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5550.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

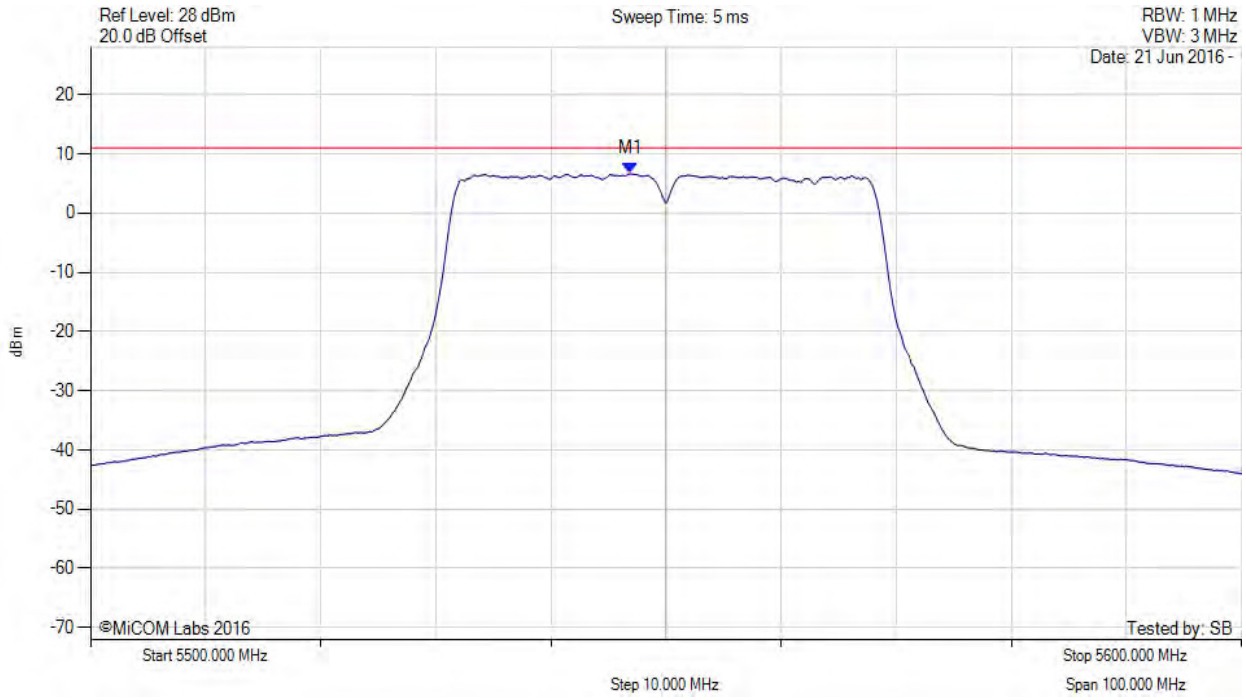


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5547.495 MHz : 0.759 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5550.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

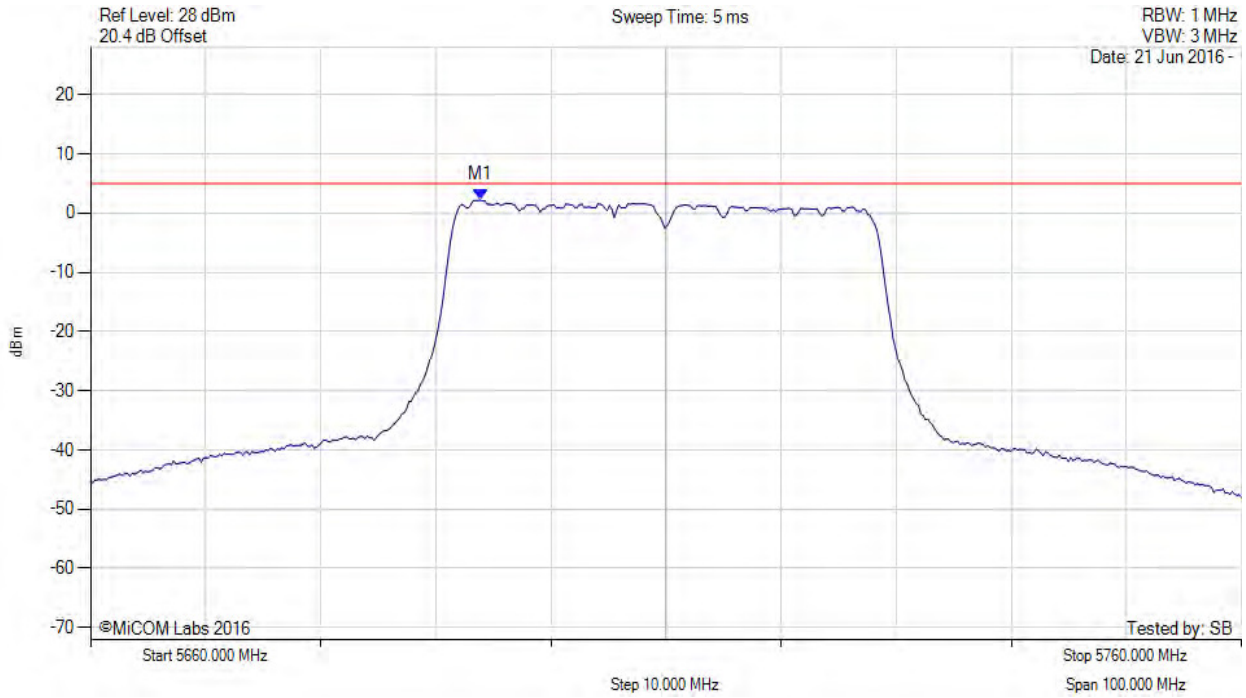


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5546.900 MHz : 6.623 dBm M1 + DCCF : 5546.900 MHz : 6.667 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -4.4 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

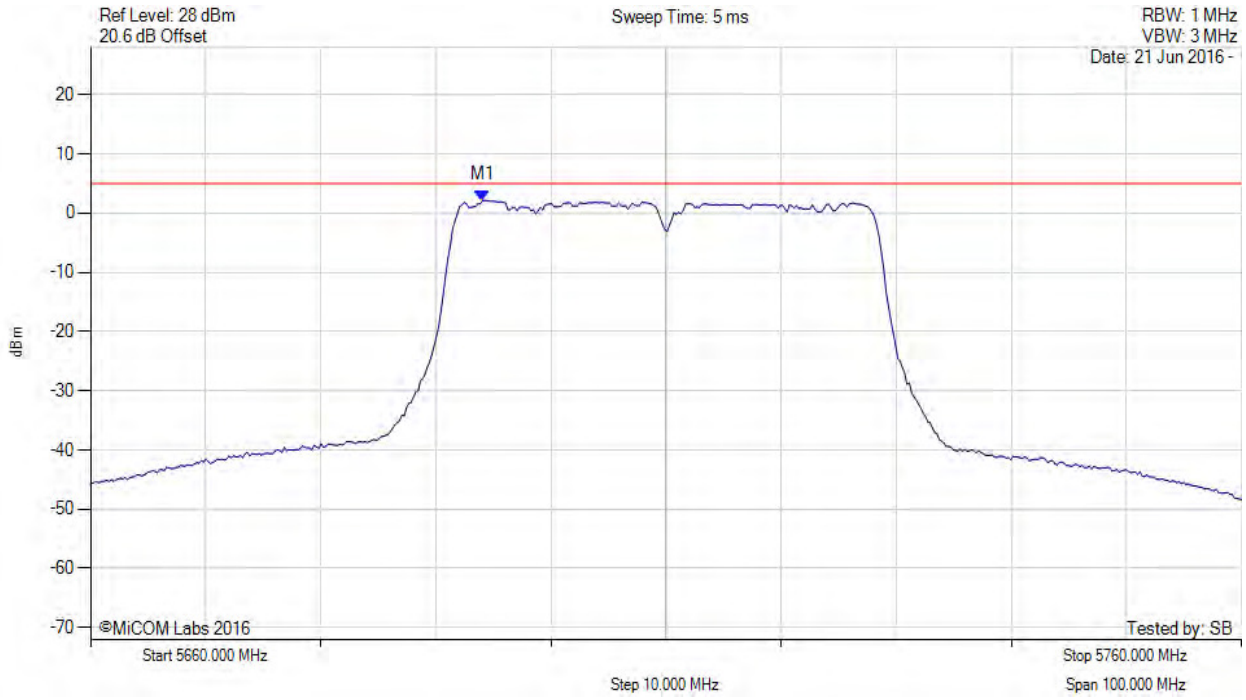


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5693.868 MHz : 2.209 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

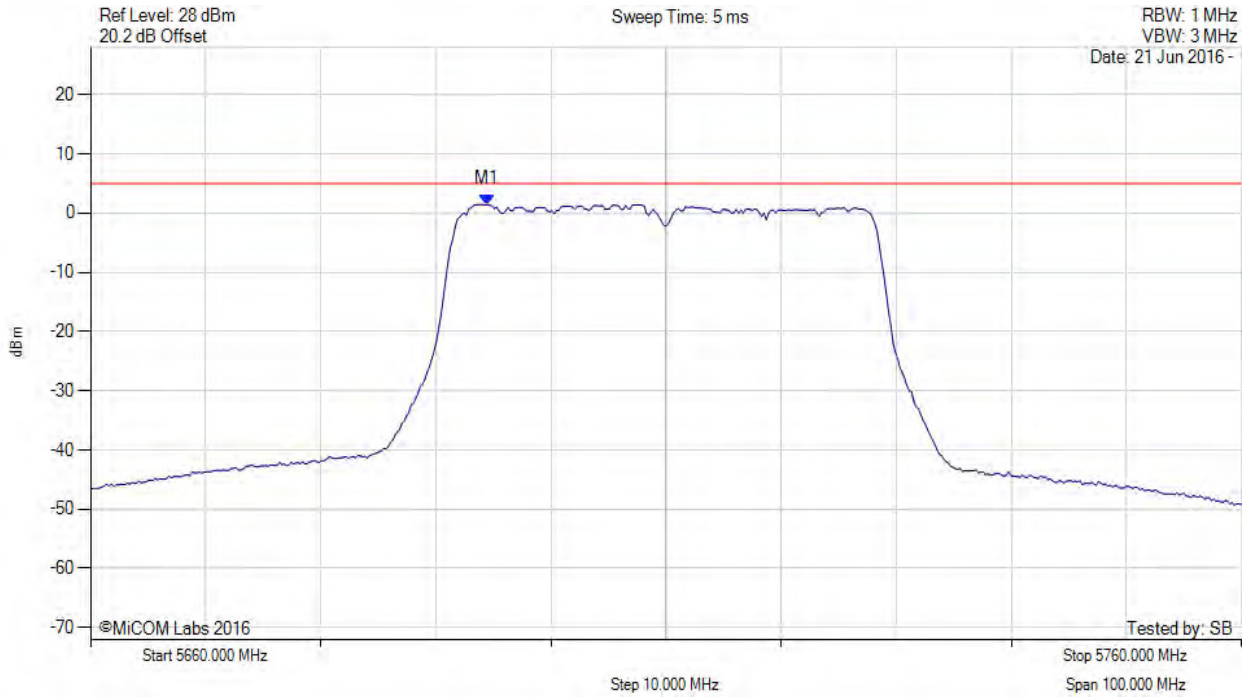


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5694.068 MHz : 2.140 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

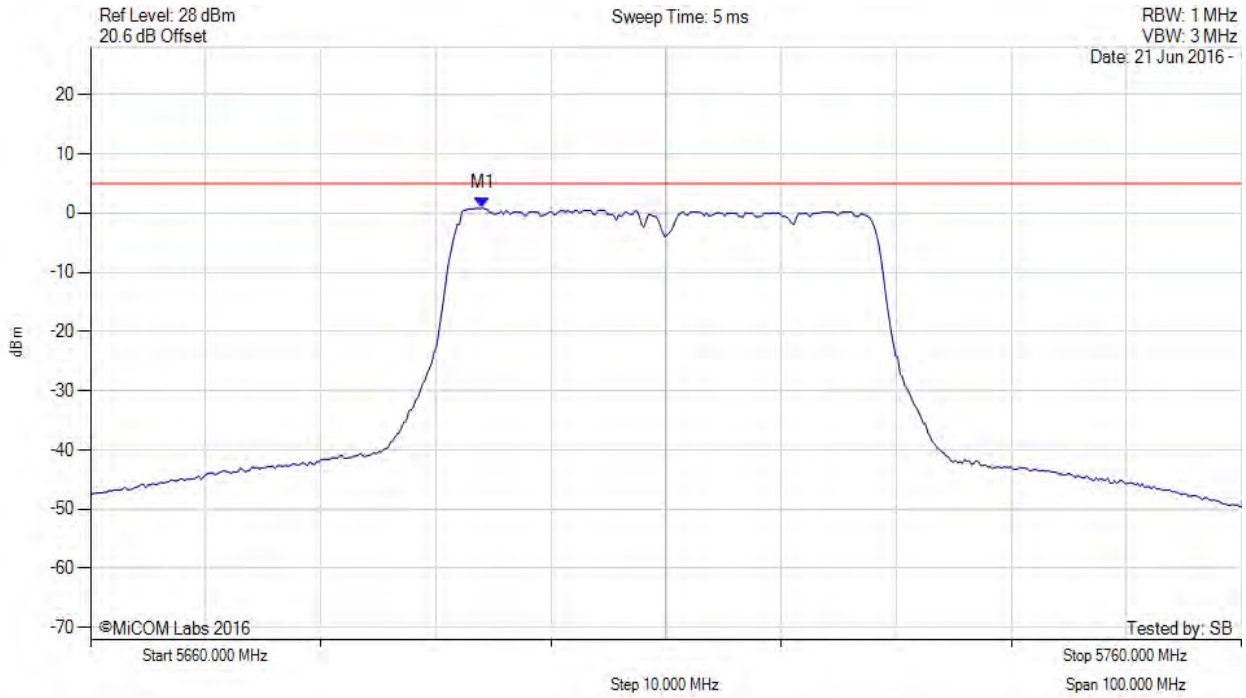


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5694.469 MHz : 1.451 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5710.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

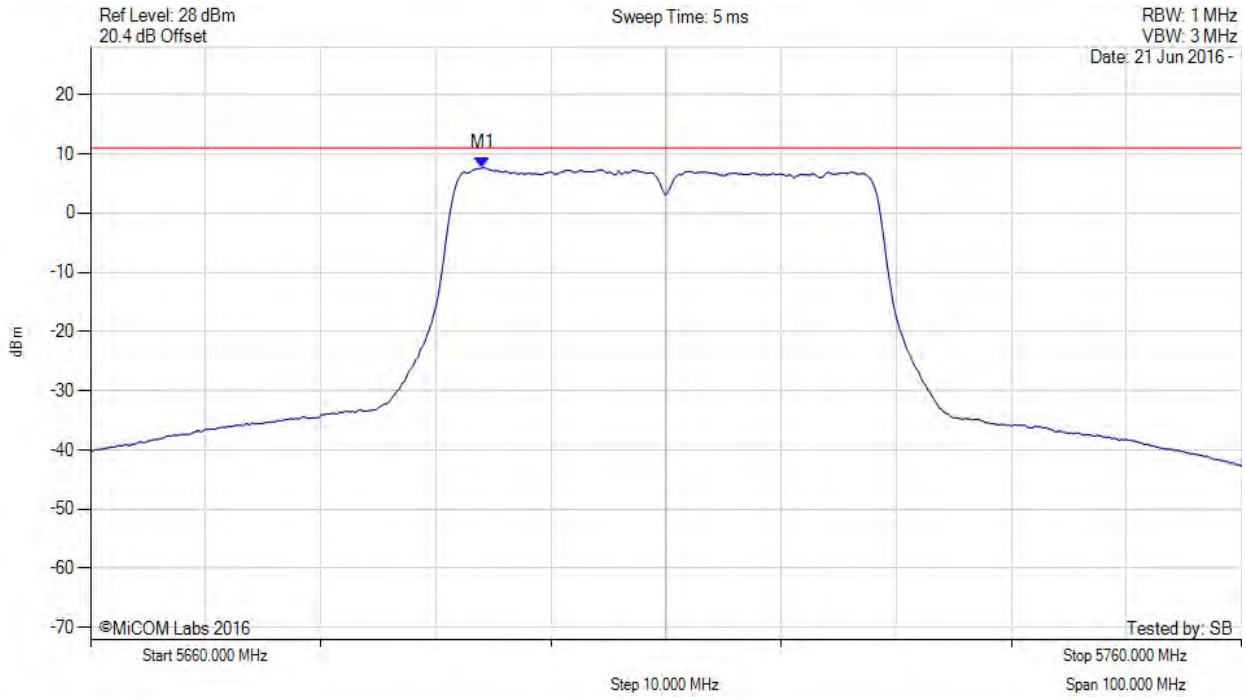


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5694.068 MHz : 0.854 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 40, Channel: 5710.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

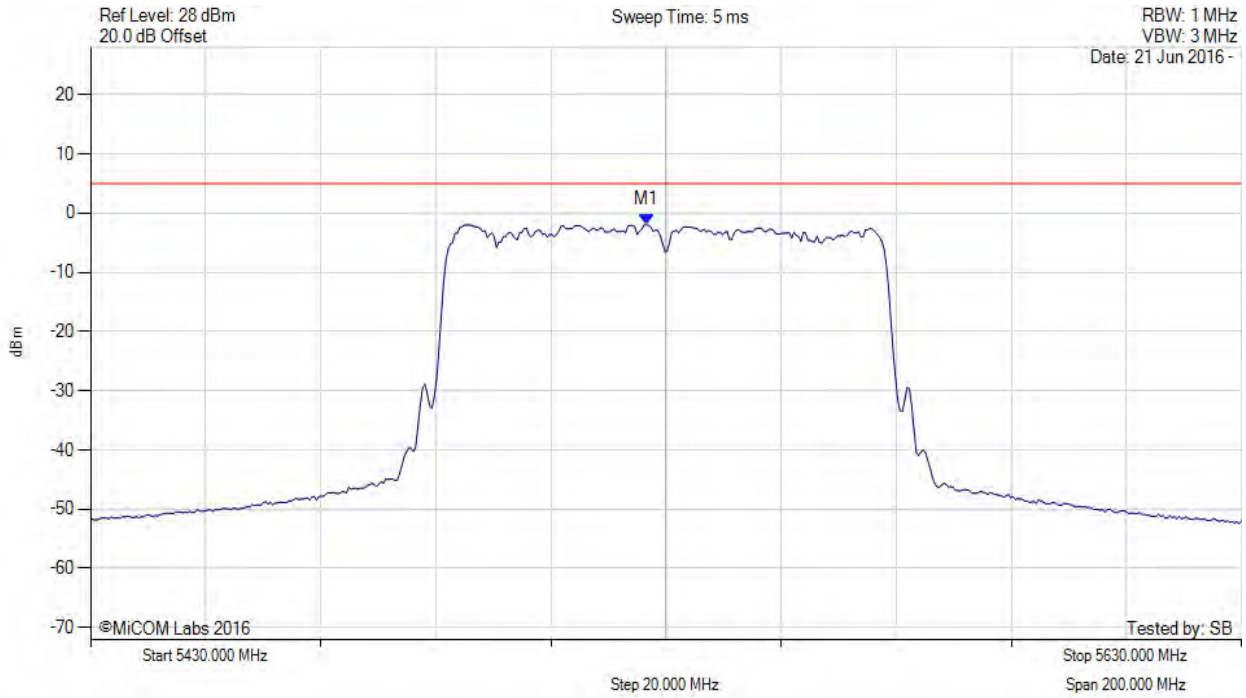


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5694.100 MHz : 7.667 dBm M1 + DCCF : 5694.100 MHz : 7.711 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -3.3 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

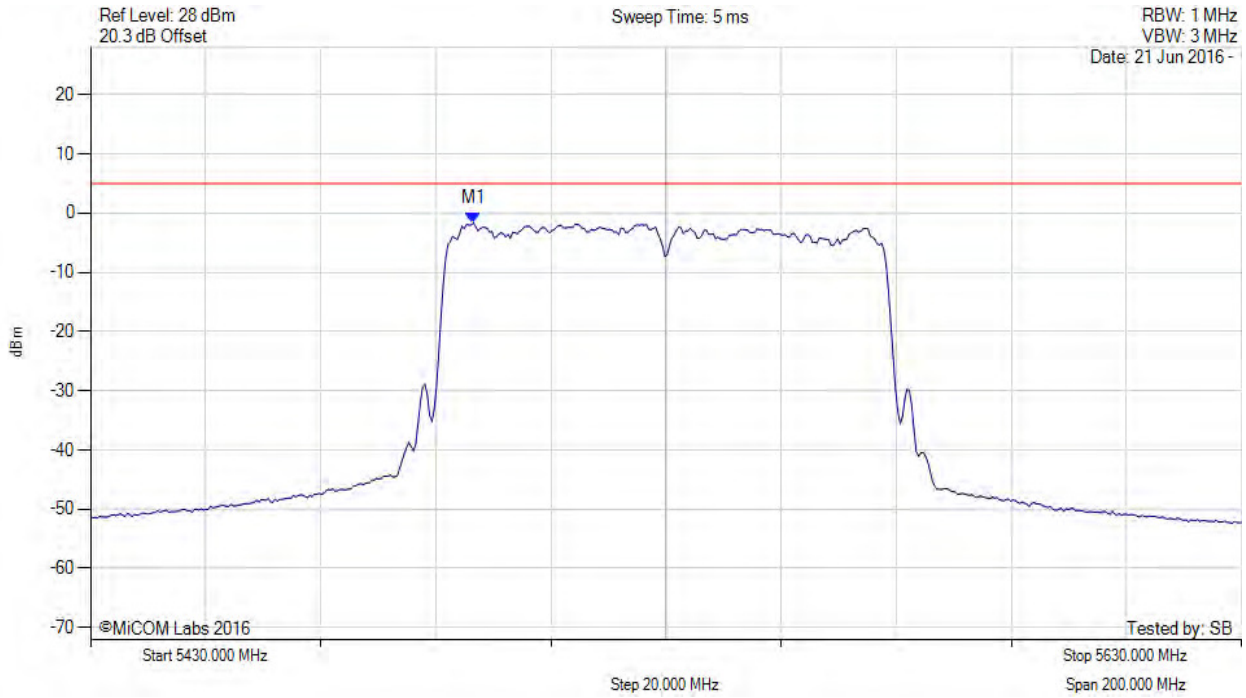


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5526.593 MHz : -1.961 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

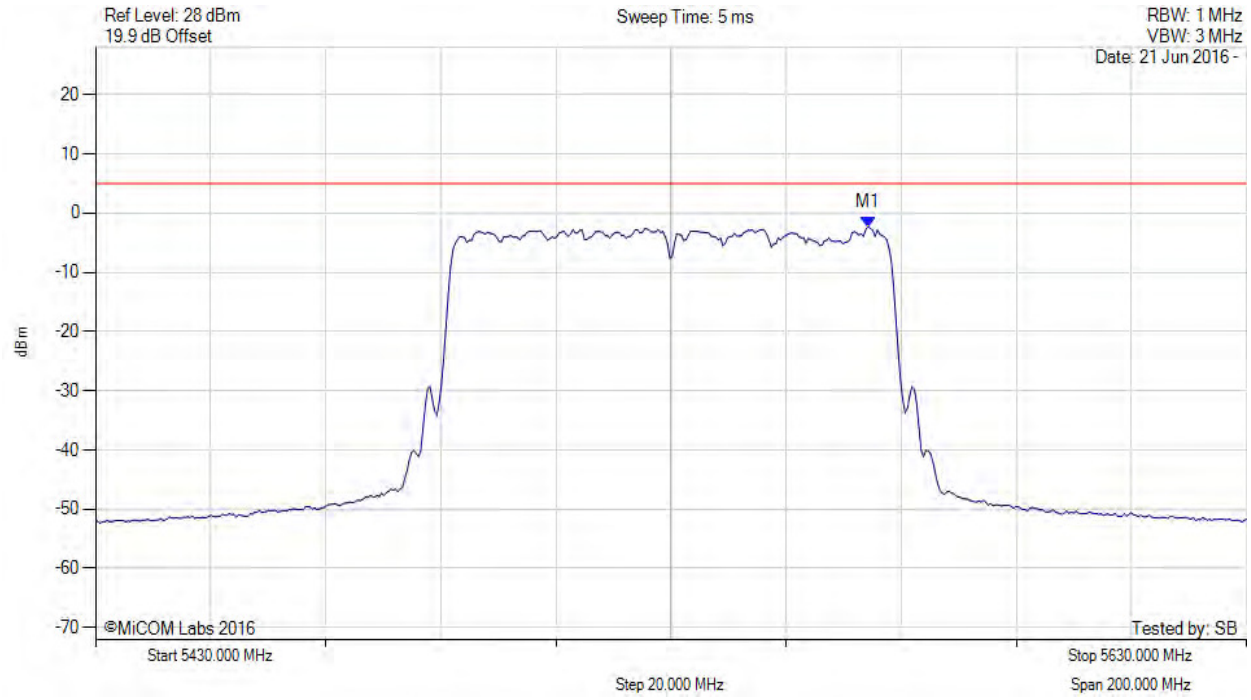


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5496.533 MHz : -1.657 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

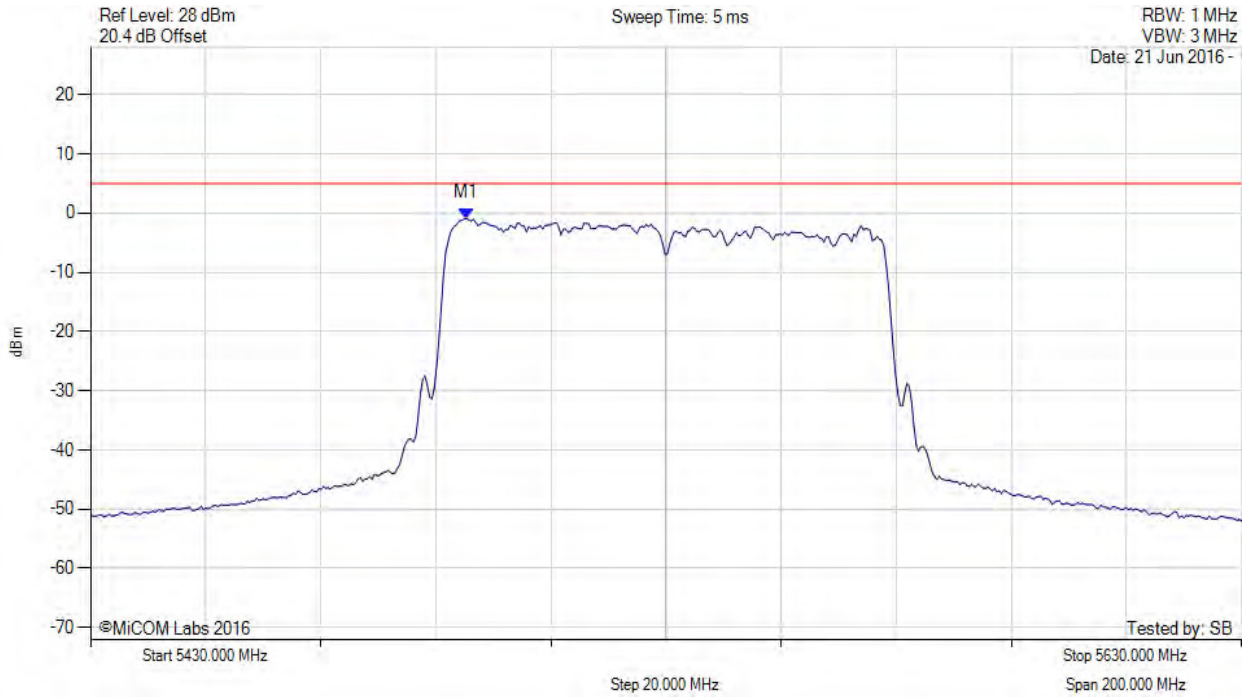


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5564.269 MHz : -2.337 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5530.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

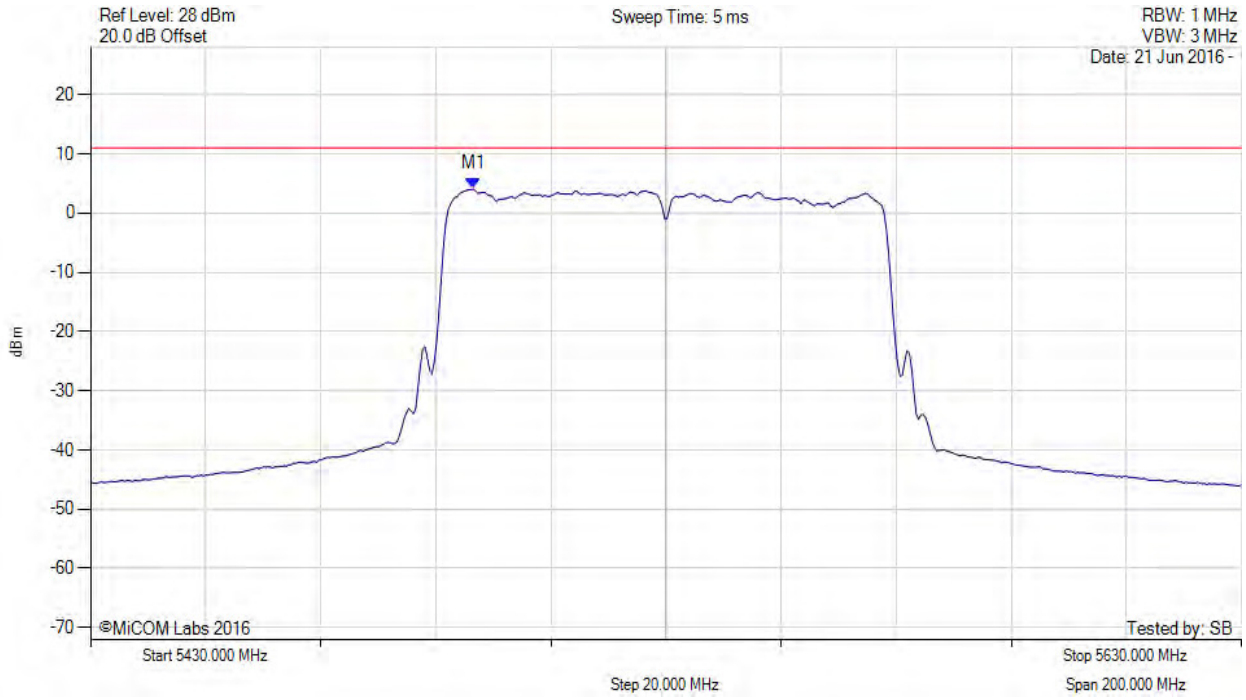


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5495.331 MHz : -0.893 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5530.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

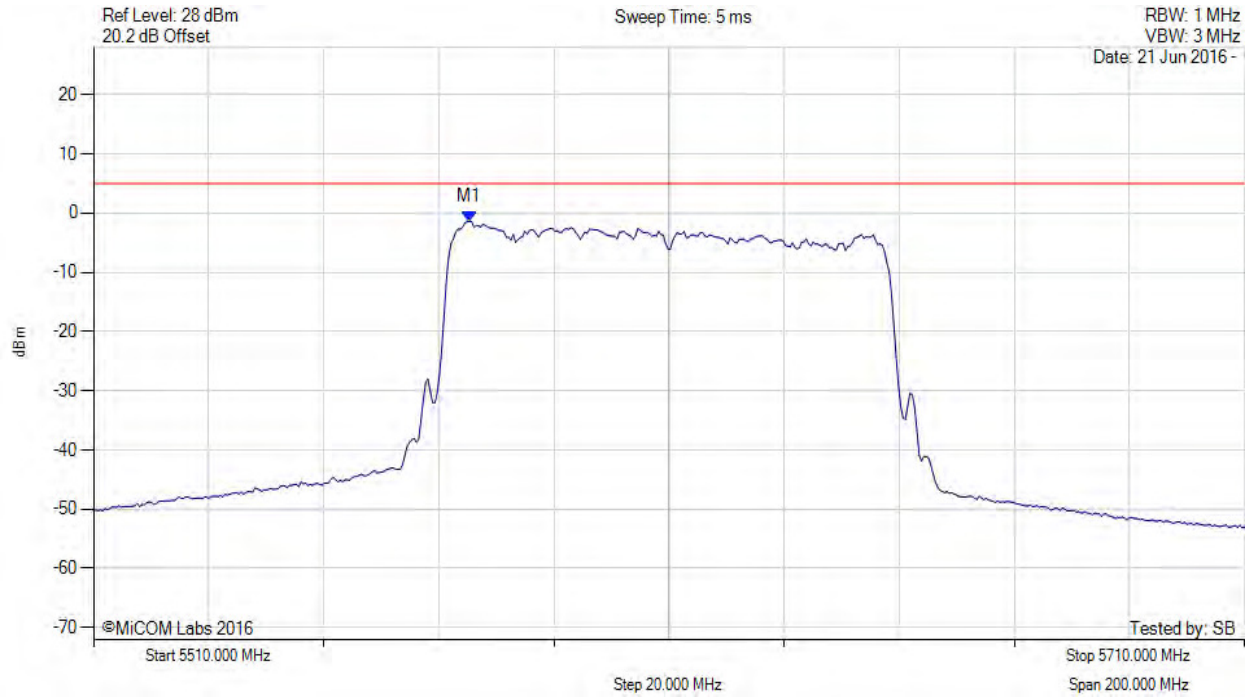


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5496.500 MHz : 4.078 dBm M1 + DCCF : 5496.500 MHz : 4.122 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -6.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

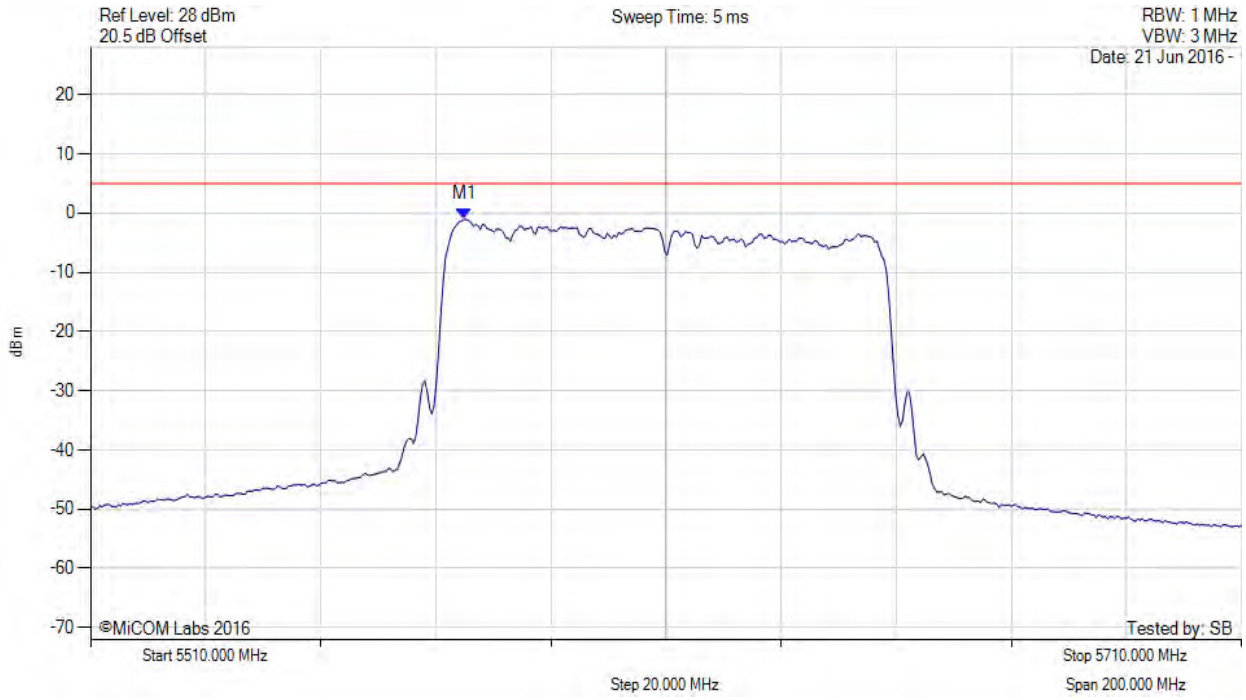


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.331 MHz : -1.376 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

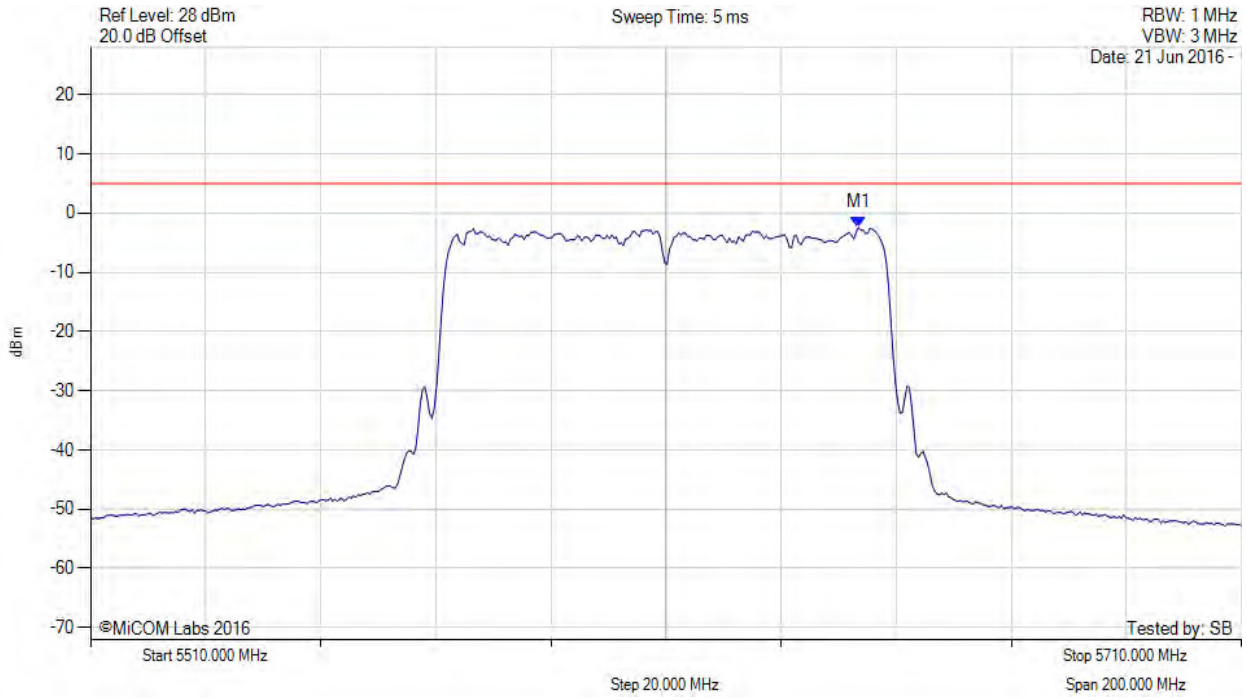


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.930 MHz : -1.038 dBm	Channel Frequency: 5610.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

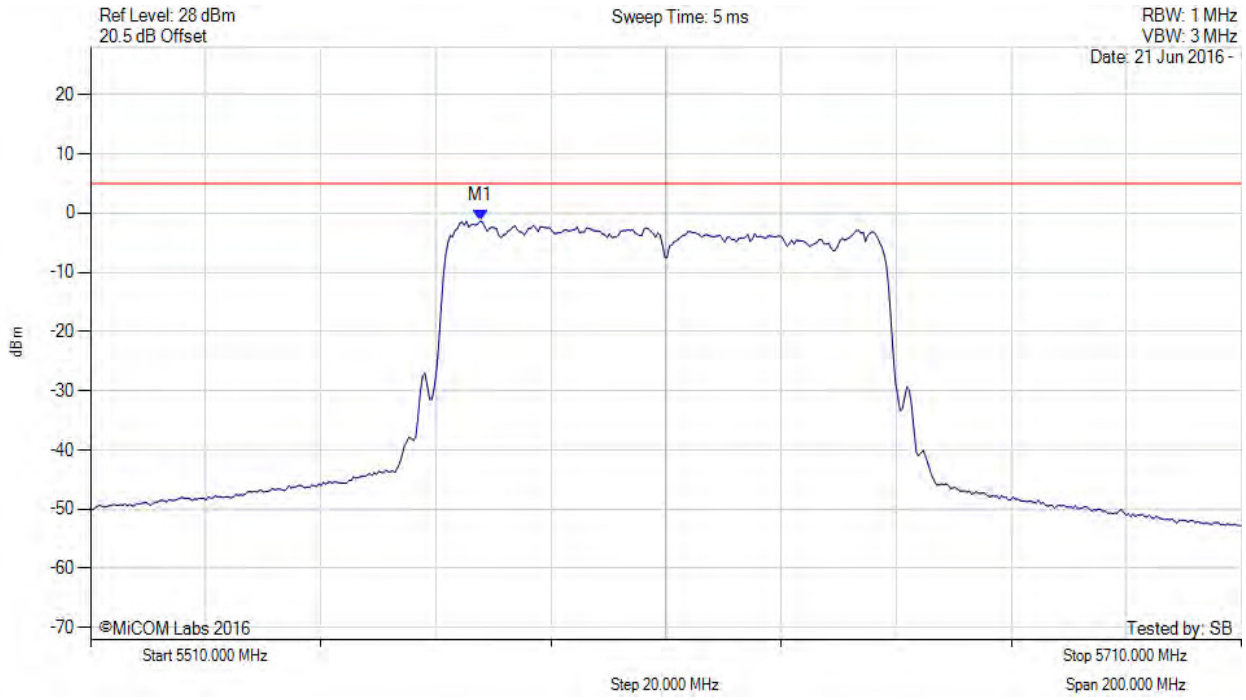


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5643.467 MHz : -2.435 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5610.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

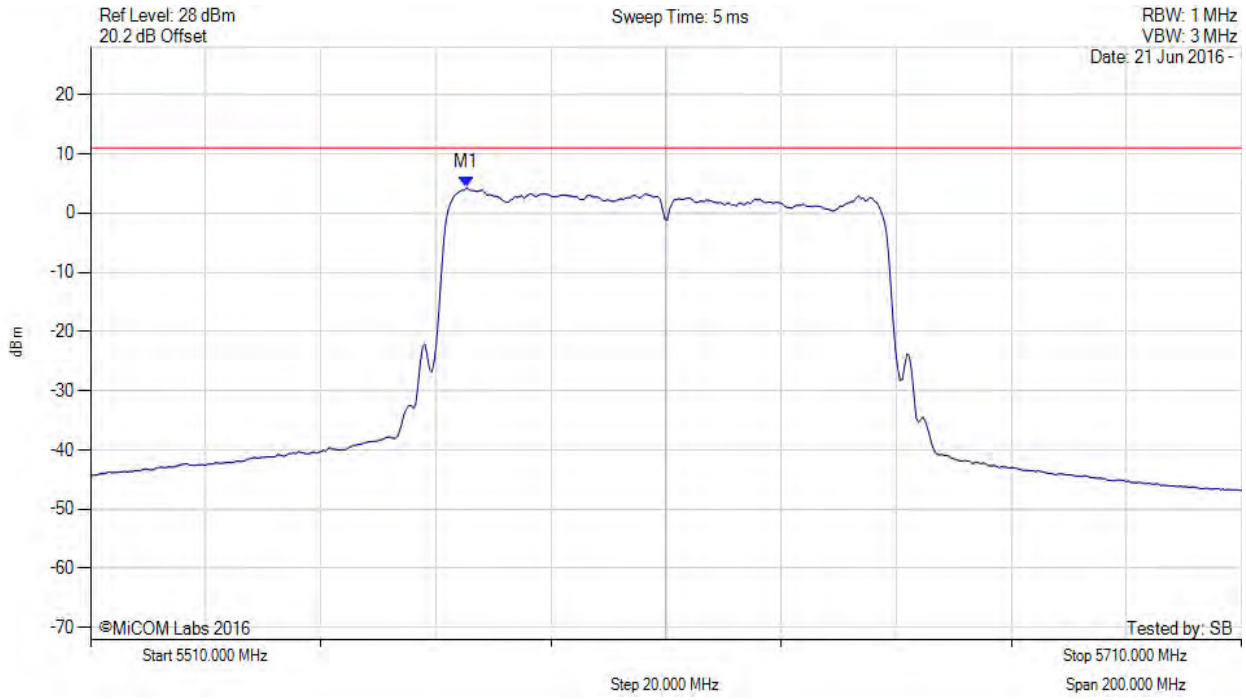


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5577.735 MHz : -1.336 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5610.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc

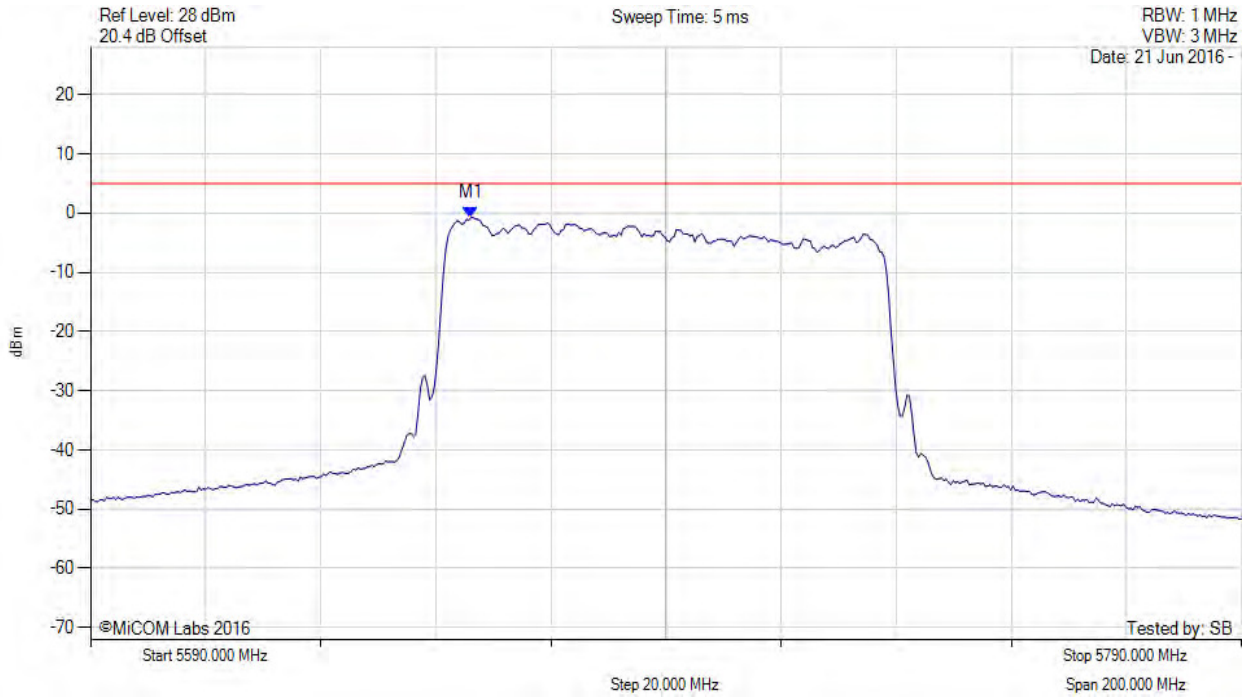


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.300 MHz : 4.292 dBm M1 + DCCF : 5575.300 MHz : 4.336 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -6.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 48 Vdc

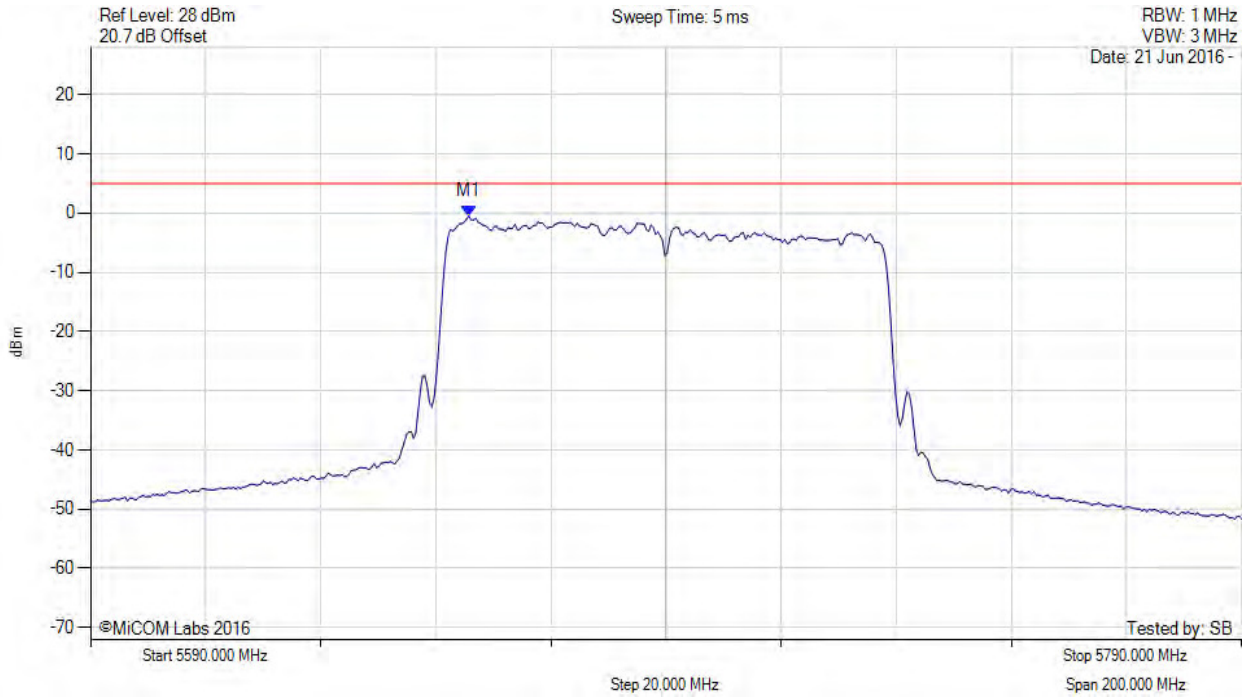


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5656.132 MHz : -0.735 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 48 Vdc

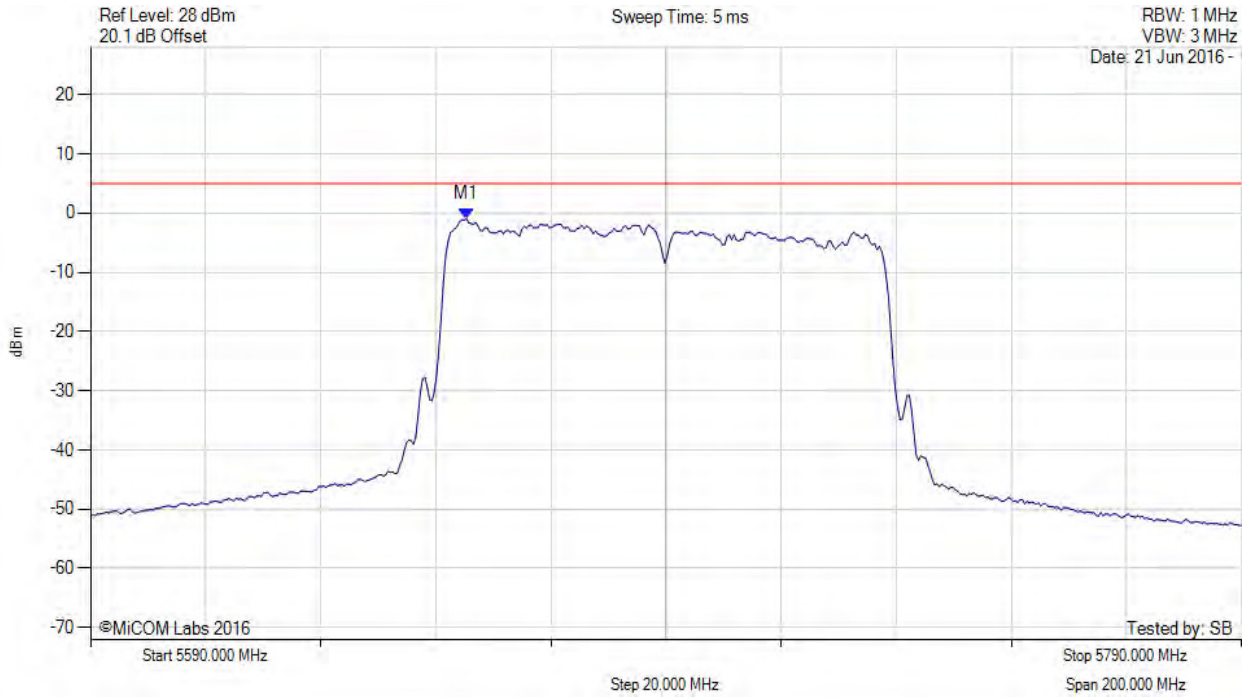


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5655.731 MHz : -0.482 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain c, Temp: 20, Voltage: 48 Vdc

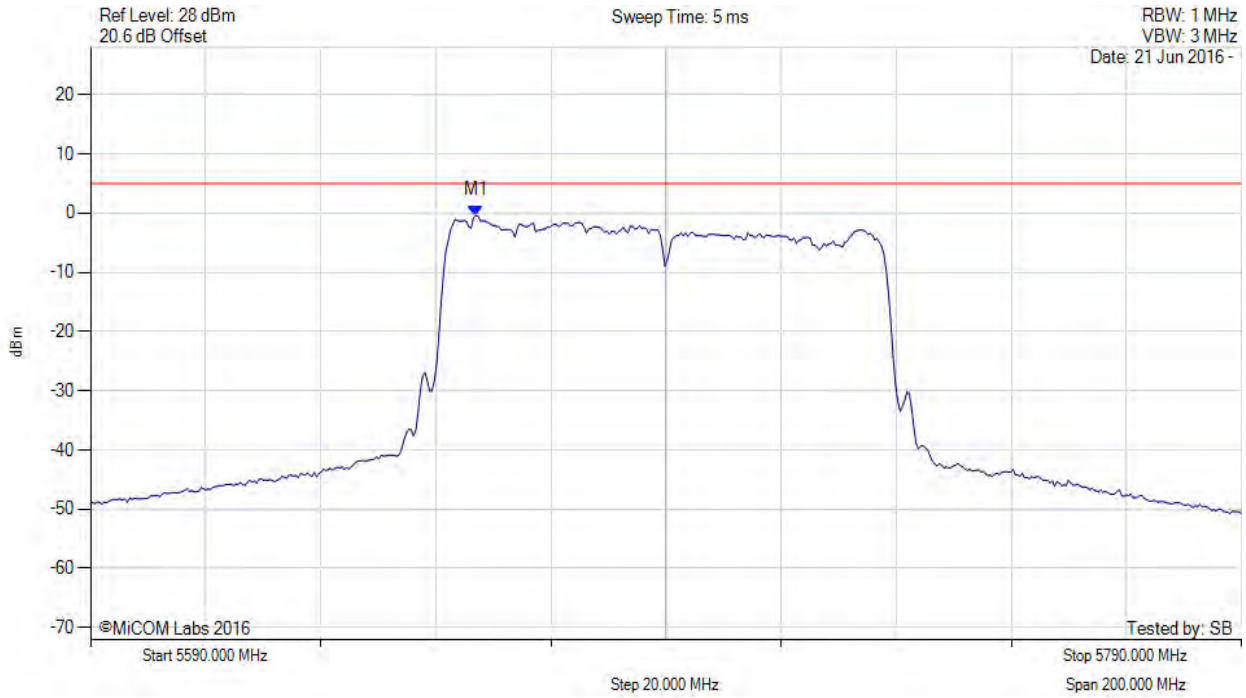


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5655.331 MHz : -1.002 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5690.00 MHz, Chain d, Temp: 20, Voltage: 48 Vdc

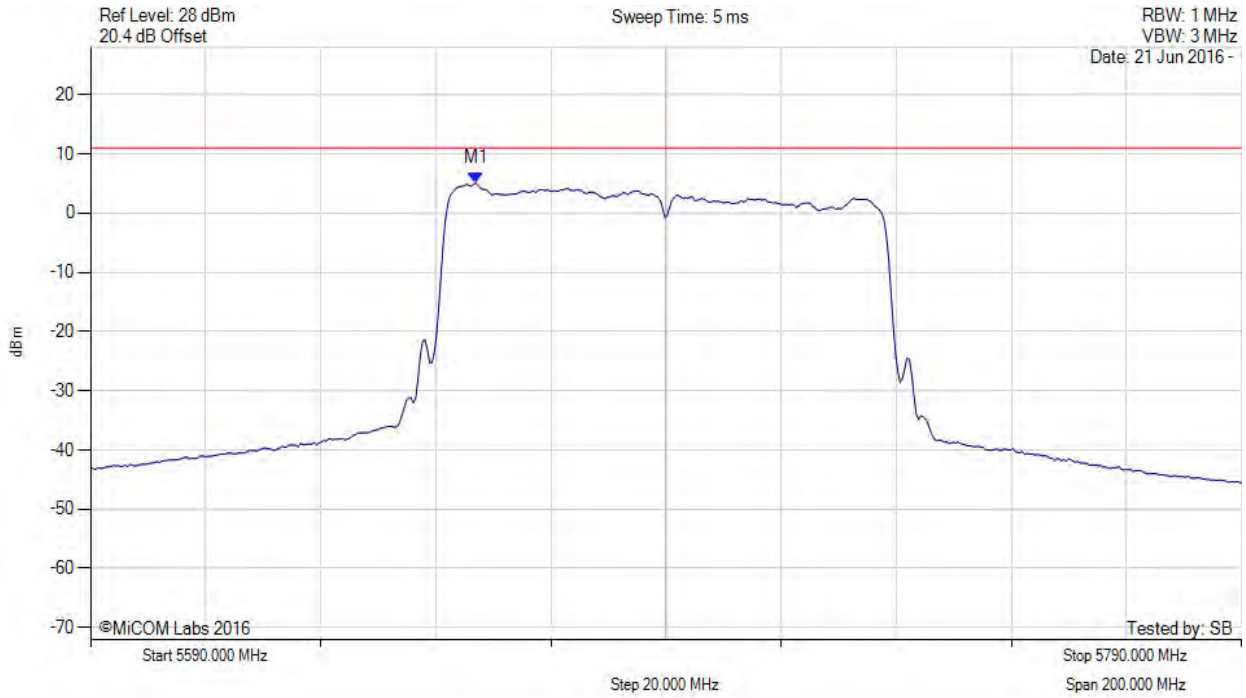


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5656.934 MHz : -0.428 dBm	Limit: ≤ 4.980 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac 80, Channel: 5690.00 MHz, SUM, Temp: 20, Voltage: 48 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5656.900 MHz : 5.076 dBm M1 + DCCF : 5656.900 MHz : 5.120 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 11.0 dBm Margin: -5.9 dB

back to matrix

575 Boulder Court
Pleasanton, California 94566, USA
Tel: +1 (925) 462 0304
Fax: +1 (925) 462 0306
www.micomlabs.com