TEST REPORT ADDENDUM - CONDUCTED

FROM

Test of: Actiontec Electronics Inc T3200M

to

To: FCC CFR 47 Part 15 Subpart E 15.407 (Non-DFS)

Test Report Serial No.: ATEC14-U8_Conducted Rev A (Non-DFS)

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

Master Document Number	Addendum Reports
ATEC14-U8_Master	ATEC14-U8_Conducted
	ATEC14-U8_Radiated
	ATEC14-U2 (FCC Part 15B & ICES_003)

This report supersedes: NONE

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

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

Issue Date: 1st April 2016

This Test Report is Issued Under the Authority of:

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TESTING CERT #2381.01

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1. DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft		
Rev A	1st April 2016	Initial release.
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In the above table the latest report revision will replace all earlier versions.

2. MEASUREMENT AND PRESENTATION OF TEST DATA

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

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

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

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

3. TEST SUMMARY

List of Measurements

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

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4. TEST RESULTS

4.1. 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 [$10*\text{Log}10\ (10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})$]
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.

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5150.00-5250.00MHz

Equipment Configuration for Peak Transmit Power			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	Channel 36 is restricted by radiated band edge.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5180.0	21.87	21.51	22.23	21.43	27.80	--	29.90	-2.10	21.00
5200.0	22.80	23.41	23.28	22.97	29.15	--	29.90	-0.75	23.00
5240.0	22.64	23.19	22.96	22.76	28.92	--	29.90	-0.98	23.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11ac-80	**Duty Cycle (%):**	96.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	Channel 42 is restricted by radiated band edge.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.18 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	
5210.0	17.64	17.67	18.23	17.24	23.73	--	29.90	-6.17	17.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	Channel 36 is restricted by radiated band edge.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.09 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	
5180.0	22.63	22.39	22.89	22.29	28.57	--	29.90	-1.33	22.00
5200.0	22.56	22.80	23.25	22.57	28.82	--	29.90	-1.08	23.00
5240.0	22.48	22.59	22.92	22.50	28.64	--	29.90	-1.26	23.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:	Channel 38 is restricted by radiated band edge.		

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.18 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	
5190.0	18.85	19.06	19.58	18.74	25.09	--	29.90	-4.81	18.00
5230.0	22.64	22.84	23.14	22.86	28.89	--	29.90	-1.01	23.00

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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5725.00-5850.00MHz

Equipment Configuration for Peak Transmit Power			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.04 dB) (dBm)				Calculated Total Power	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5745.0	22.71	23.01	23.73	22.85	29.12	--	30.00	-0.88	23.00
5785.0	22.89	22.77	23.56	22.71	29.02	--	30.00	-0.98	23.00
5825.0	22.63	22.59	23.86	22.75	29.01	--	30.00	-0.99	23.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.32 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	
5775.0	22.82	23.07	23.93	23.31	29.32	--	30.00	-0.68	23.00

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.09 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	
5745.0	22.53	22.96	23.84	22.87	29.10	--	30.00	-0.90	23.00
5785.0	22.60	22.88	23.83	22.86	29.09	--	30.00	-0.91	23.00
5825.0	22.57	22.65	23.54	22.84	28.94	--	30.00	-1.06	23.00

Traceability to Industry Recognized Test Methodologies

Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Peak Transmit Power			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power + DCCF (+0.18 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	
5755.0	22.98	23.24	24.02	23.31	29.42	--	30.00	-0.58	23.00
5795.0	22.89	23.06	23.66	23.43	29.29	--	30.00	-0.71	23.00

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

DCCF - Duty Cycle Correction Factor

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4.2. 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.

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5150.00-5250.00MHz

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	23.347	22.044	21.944	23.447	23.447	21.944		
5200.0	23.347	22.244	21.944	23.246	23.347	21.944		
5240.0	23.246	22.244	22.144	23.447	23.447	22.144		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	16.834	16.733	16.733	16.834	16.834	16.733		
5200.0	16.834	16.733	16.834	16.834	16.834	16.733		
5240.0	16.834	16.733	16.733	16.834	16.834	16.733		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	96.593	111.423	101.804	101.804	111.423	96.593		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5210.0	76.553	76.553	76.152	76.553	76.553	76.152		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	23.447	23.046	23.747	23.547	23.747	23.046		
5200.0	23.547	23.848	23.747	23.547	23.848	23.547		
5240.0	23.246	23.447	23.547	23.547	23.547	23.246		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5180.0	18.136	18.136	18.136	18.136	18.136	18.136		
5200.0	18.136	18.036	18.136	18.136	18.136	18.036		
5240.0	18.136	18.136	18.136	18.136	18.136	18.136		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5190.0	43.086	46.493	43.487	43.086	46.493	43.086		
5230.0	42.886	43.086	43.487	43.888	43.888	42.886		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5190.0	36.673	36.874	36.874	36.673	36.874	36.673		
5230.0	36.673	36.673	36.673	36.673	36.673	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).

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5725.00-5850.00MHz

Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results								
Test Frequency	**Measured 26 dB Bandwidth (MHz)**				**26 dB Bandwidth (MHz)**			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	22.745	22.144	22.545	24.248	24.248	22.144		
5785.0	22.946	22.545	22.545	23.747	23.747	22.545		
5825.0	22.946	22.445	22.545	23.747	23.747	22.445		
Test Frequency	**Measured 99% Bandwidth (MHz)**				**99% Bandwidth (MHz)**			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	16.834	16.834	16.733	16.934	16.934	16.733		
5785.0	16.834	16.834	16.733	16.934	16.934	16.733		
5825.0	16.834	16.934	16.733	16.934	16.934	16.733		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	105.812	20.441	111.022	123.046	123.046	20.441		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5775.0	76.152	76.553	76.152	76.553	76.553	76.152		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	23.447	23.146	23.848	24.449	24.449	23.146		
5785.0	24.048	23.848	23.848	24.349	24.349	23.848		
5825.0	23.347	23.647	23.747	23.848	23.848	23.347		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5745.0	18.136	18.136	18.136	18.136	18.136	18.136		
5785.0	18.136	18.236	18.136	18.136	18.236	18.136		
5825.0	18.136	18.136	18.136	18.136	18.136	18.136		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5755.0	43.287	45.892	43.287	45.892	45.892	43.287		
5795.0	43.287	45.691	45.691	47.295	47.295	43.287		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5755.0	36.874	36.673	36.673	36.874	36.874	36.673		
5795.0	36.874	36.673	36.874	36.874	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).

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4.3. 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.

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(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.

Horizontal and Vertical Antenna Polarization

The T3200M antennas are dual polarized i.e. 3 antennas operate horizontal the other 1 vertical polarization. For this reason the Power Spectral Density test does not compare all 4 antenna's to the limit but it measures the 3 horizontal and 1 vertical antennas separately.

As a result two separate sets of tests were performed;

1).. Horizontal 3 antenna chains

2).. Vertical single antenna chain

NOTE: Antenna chain power cannot be set on an individual basis

5150.00-5250.00MHz

Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.04 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5180.0	11.648	12.037	11.970	--	16.501	16.9	-0.4
5200.0	11.323	12.051	12.094	--	16.364	16.9	-0.5
5240.0	11.175	11.785	11.641	--	16.191	16.9	-0.7

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.04 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5180.0	--	--	--	11.654	11.698	16.9	-5.2
5200.0	--	--	--	11.249	11.293	16.9	-5.6
5240.0	--	--	--	11.126	11.170	16.9	-5.7

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.32 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5210.0	5.327	5.474	6.186	--	9.743	16.9	-7.1

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.32 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5210.0	--	--	--	5.140	5.455	16.9	-11.4

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5180.0	11.152	11.039	11.363	--	15.938	16.9	-0.9
5200.0	10.714	11.009	11.506	--	15.890	16.9	-1.0
5240.0	10.518	10.689	11.044	--	15.470	16.9	-1.4

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5180.0	--	--	--	10.975	11.063	16.9	-5.8
5200.0	--	--	--	10.777	10.865	16.9	-6.0
5240.0	--	--	--	10.813	10.901	16.9	-6.0

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

DCCF - Duty Cycle Correction Factor

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5190.0	7.838	8.090	8.272	--	12.784	16.9	-4.1
5230.0	7.610	7.702	8.155	--	12.517	16.9	-4.4

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	3.40
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	2.70
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5190.0	--	--	--	7.546	7.723	16.9	-9.2
5230.0	--	--	--	7.929	8.106	16.9	-8.8

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

DCCF - Duty Cycle Correction Factor

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5725.00-5850.00MHz

Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.04 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5745.0	8.273	8.757	9.851	--	13.784	30.0	-16.2
5785.0	8.065	8.846	9.280	--	13.345	30.0	-16.6
5825.0	8.102	8.473	9.507	--	13.408	30.0	-16.6

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	99.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.04 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5745.0	--	--	--	8.928	8.972	30.0	-21.0
5785.0	--	--	--	8.635	8.679	30.0	-21.3
5825.0	--	--	--	8.720	8.764	30.0	-21.2

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.32 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5775.0	2.104	2.200	2.601	--	7.037	30.0	-22.9

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	93.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.32 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5775.0	--	--	--	2.712	3.027	30.0	-27.0

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5745.0	7.742	8.157	8.984	--	13.109	30.0	-16.9
5785.0	7.765	8.316	9.025	--	13.196	30.0	-16.8
5825.0	7.657	7.780	8.784	--	12.869	30.0	-17.1

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5745.0	--	--	--	8.461	8.549	30.0	-21.5
5785.0	--	--	--	8.091	8.179	30.0	-21.8
5825.0	--	--	--	8.210	8.298	30.0	-21.7

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5755.0	5.187	5.594	6.100	--	10.104	30.0	-19.9
5795.0	5.046	5.138	5.935	--	10.002	30.0	-20.0

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.43
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	1.57
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/500 KHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/500 KHz**	**dBm/500 KHz**	**dB**
5755.0	--	--	--	5.746	5.923	30.0	-24.1
5795.0	--	--	--	5.590	5.767	30.0	-24.2

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

DCCF - Duty Cycle Correction Factor

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

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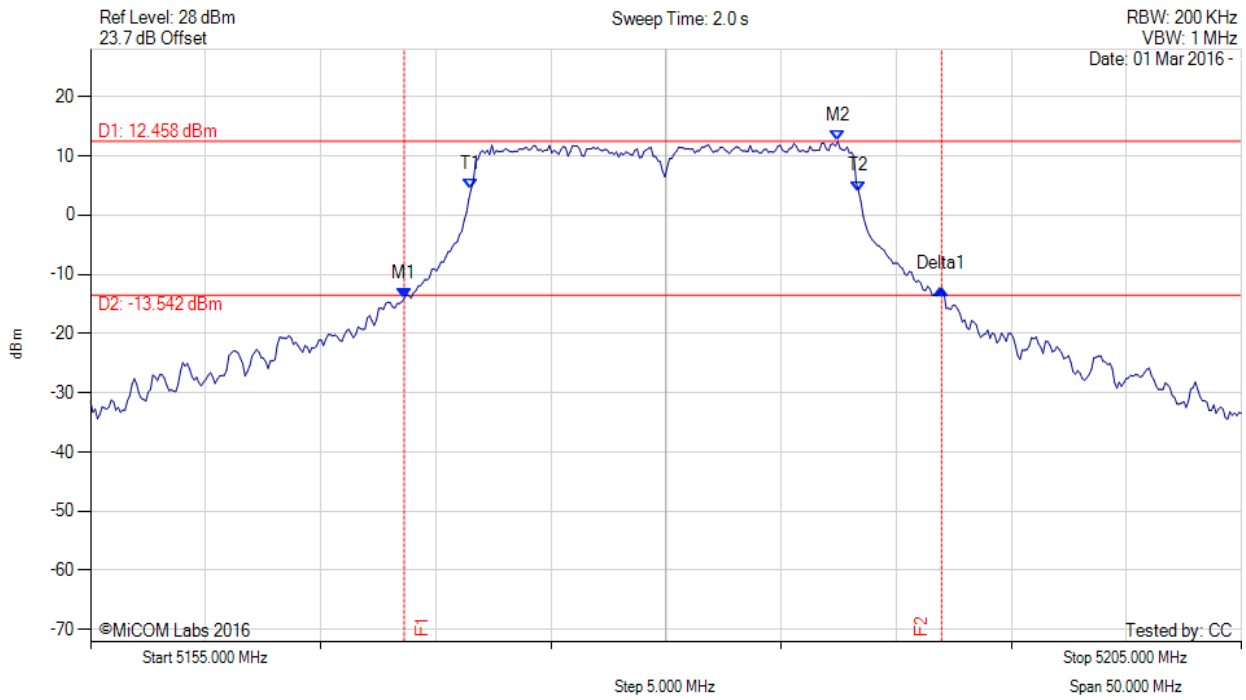
A. APPENDIX - GRAPHICAL IMAGES

A.1. 26 dB & 99% Bandwidth

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

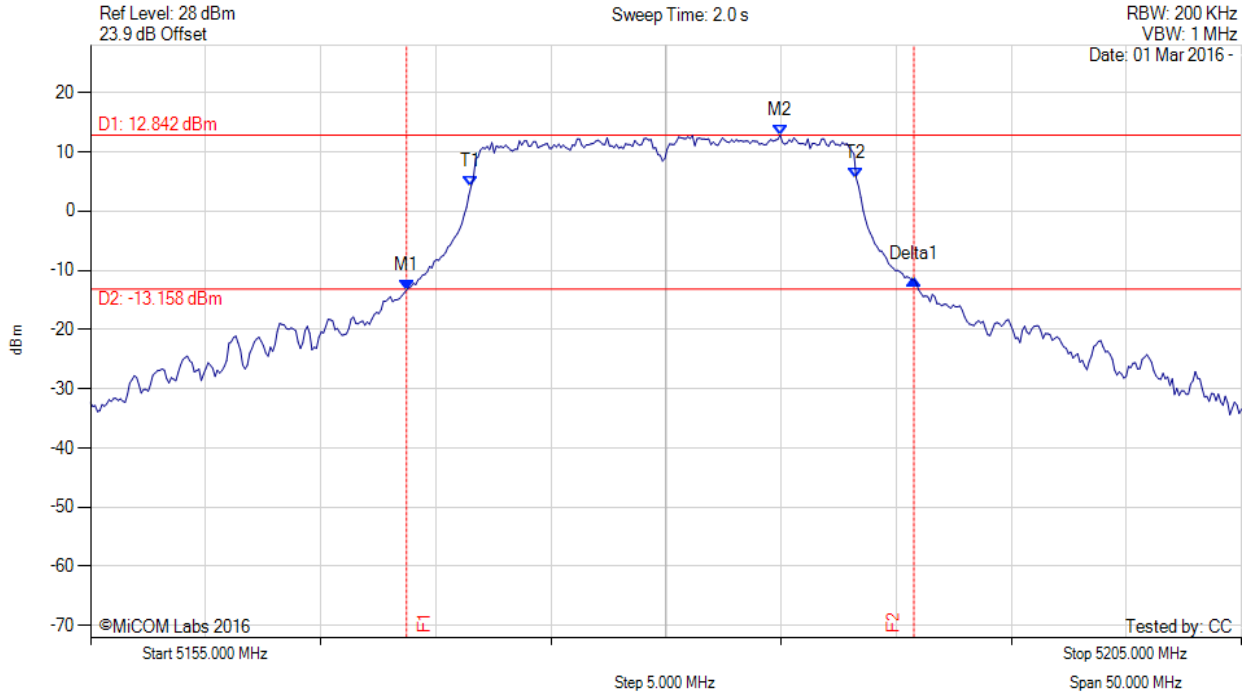


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.627 MHz : -14.074 dBm M2 : 5187.465 MHz : 12.458 dBm Delta1 : 23.347 MHz : 1.521 dB T1 : 5171.533 MHz : 4.346 dBm T2 : 5188.367 MHz : 4.018 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.347 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

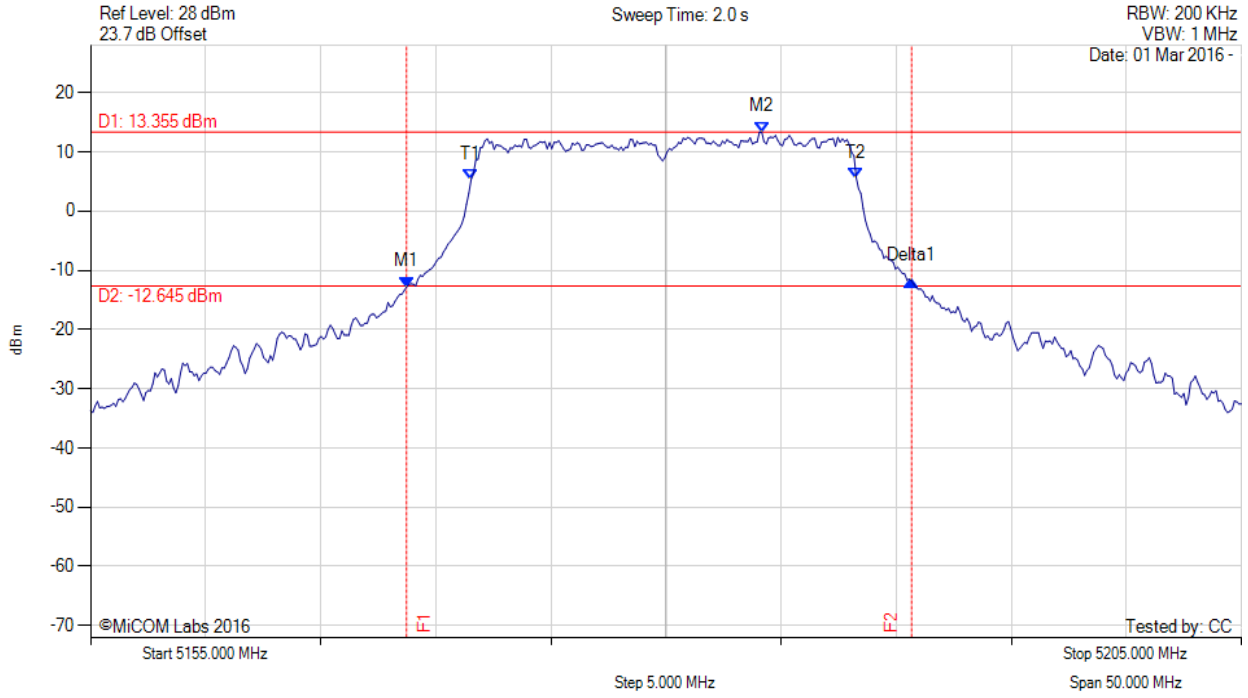


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.727 MHz : -13.293 dBm M2 : 5184.960 MHz : 12.842 dBm Delta1 : 22.044 MHz : 1.743 dB T1 : 5171.533 MHz : 4.150 dBm T2 : 5188.267 MHz : 5.541 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.044 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

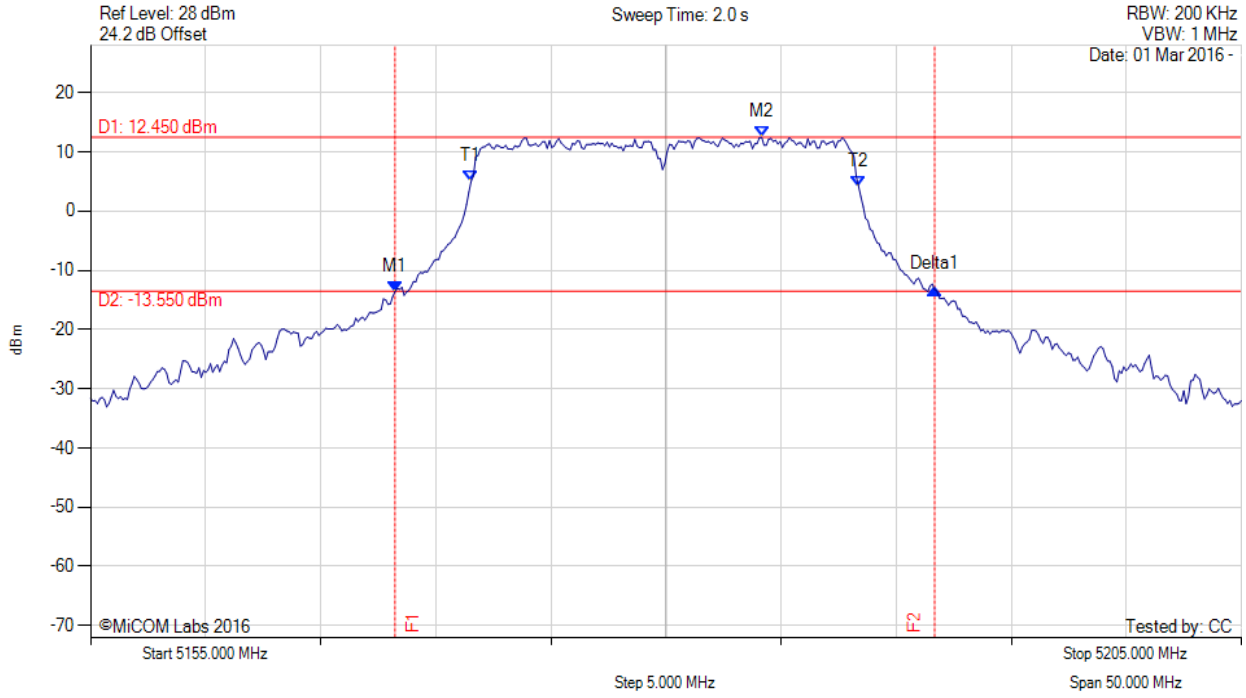


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.727 MHz : -12.797 dBm M2 : 5184.158 MHz : 13.355 dBm Delta1 : 21.944 MHz : 1.033 dB T1 : 5171.533 MHz : 5.263 dBm T2 : 5188.267 MHz : 5.631 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 21.944 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

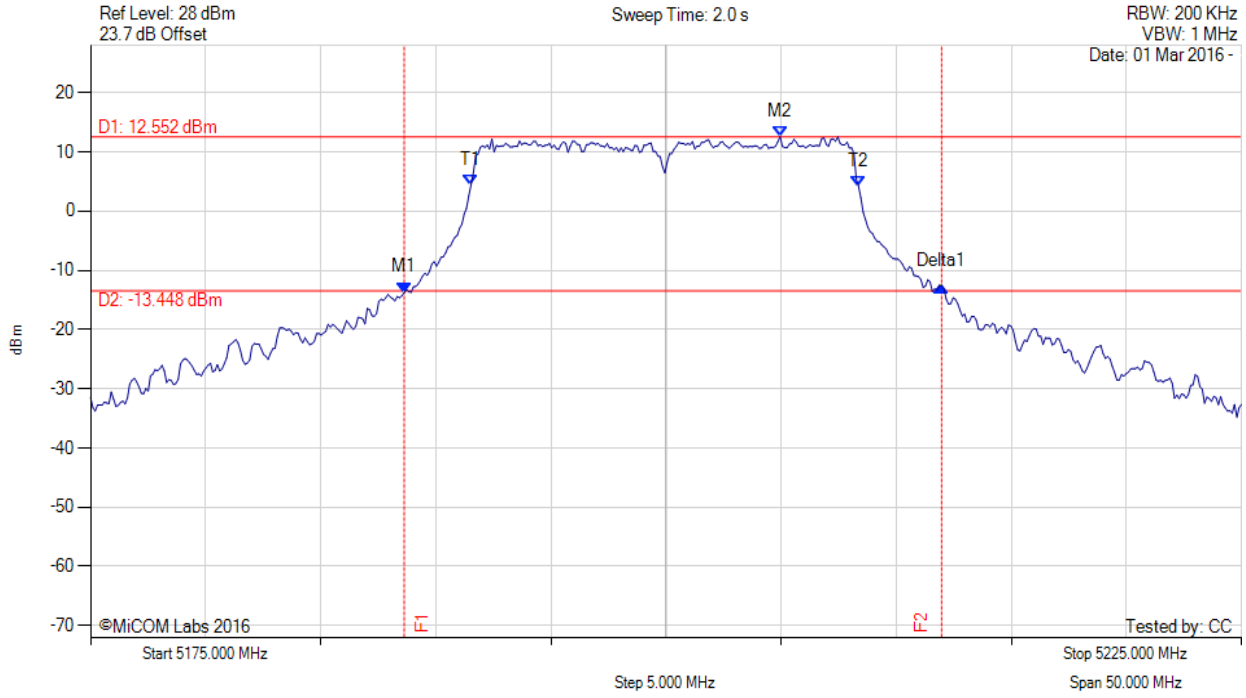


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.226 MHz : -13.615 dBm M2 : 5184.158 MHz : 12.450 dBm Delta1 : 23.447 MHz : 0.378 dB T1 : 5171.533 MHz : 5.009 dBm T2 : 5188.367 MHz : 4.177 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.447 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

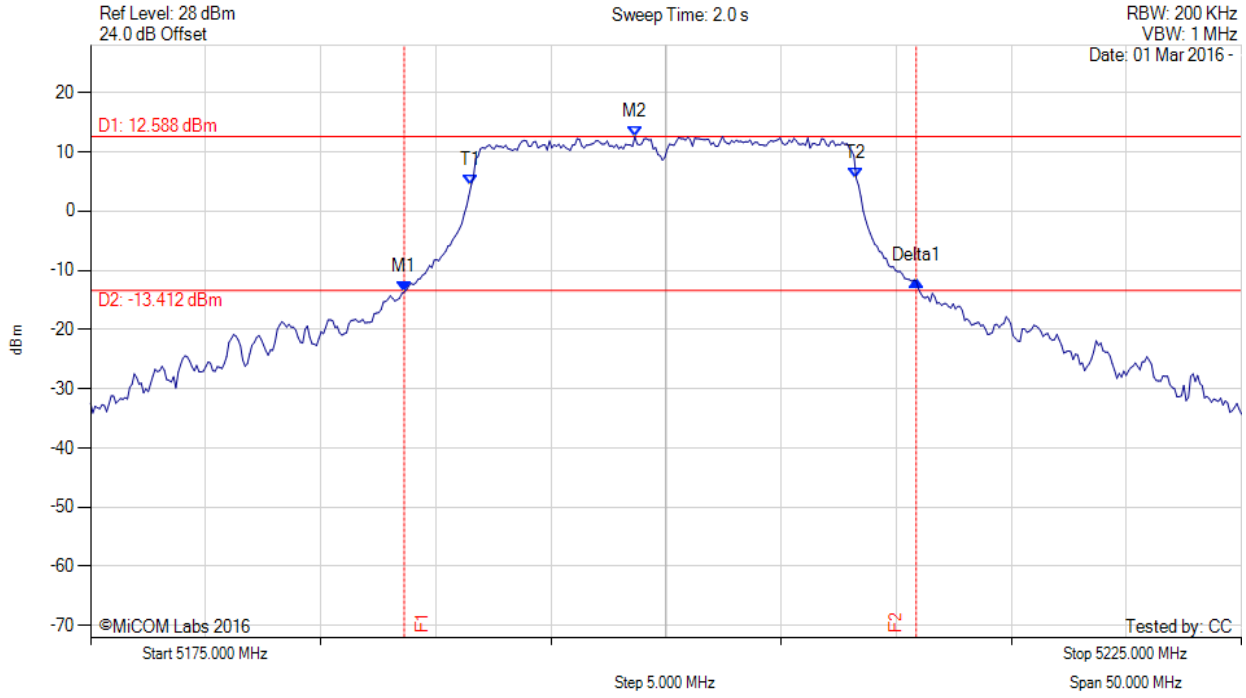


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.627 MHz : -13.753 dBm M2 : 5204.960 MHz : 12.552 dBm Delta1 : 23.347 MHz : 1.139 dB T1 : 5191.533 MHz : 4.441 dBm T2 : 5208.367 MHz : 4.138 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.347 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

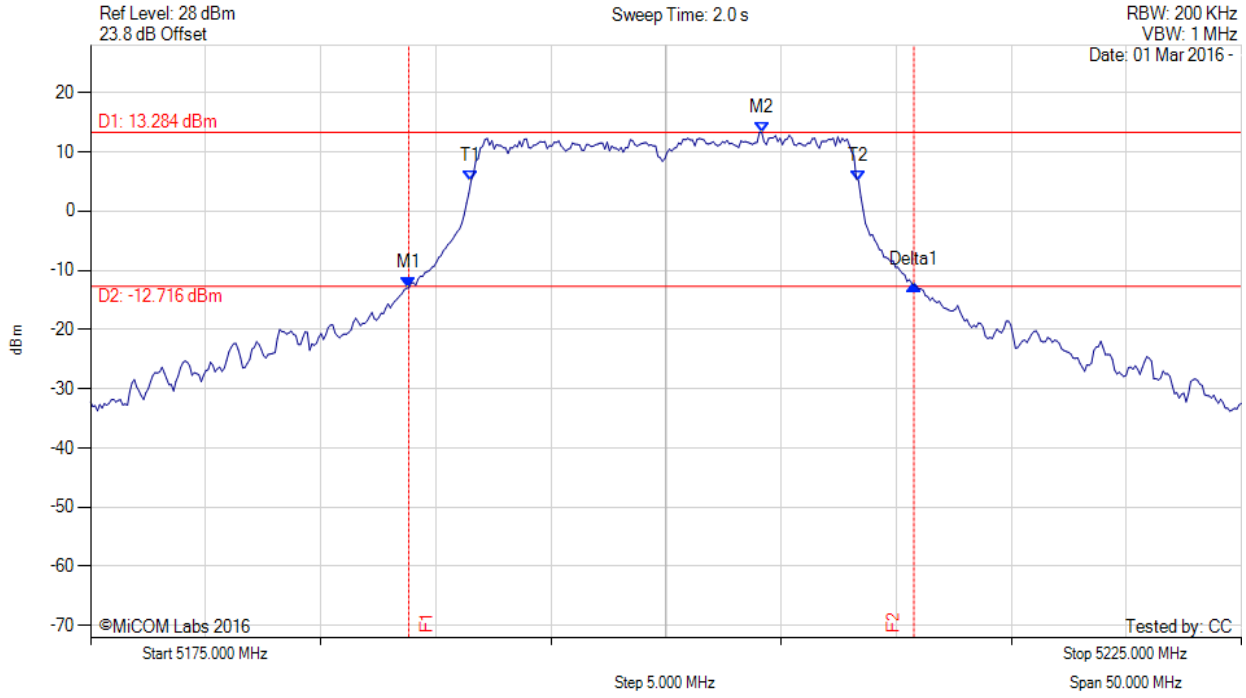


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.627 MHz : -13.708 dBm M2 : 5198.647 MHz : 12.588 dBm Delta1 : 22.244 MHz : 1.908 dB T1 : 5191.533 MHz : 4.270 dBm T2 : 5208.267 MHz : 5.517 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.244 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

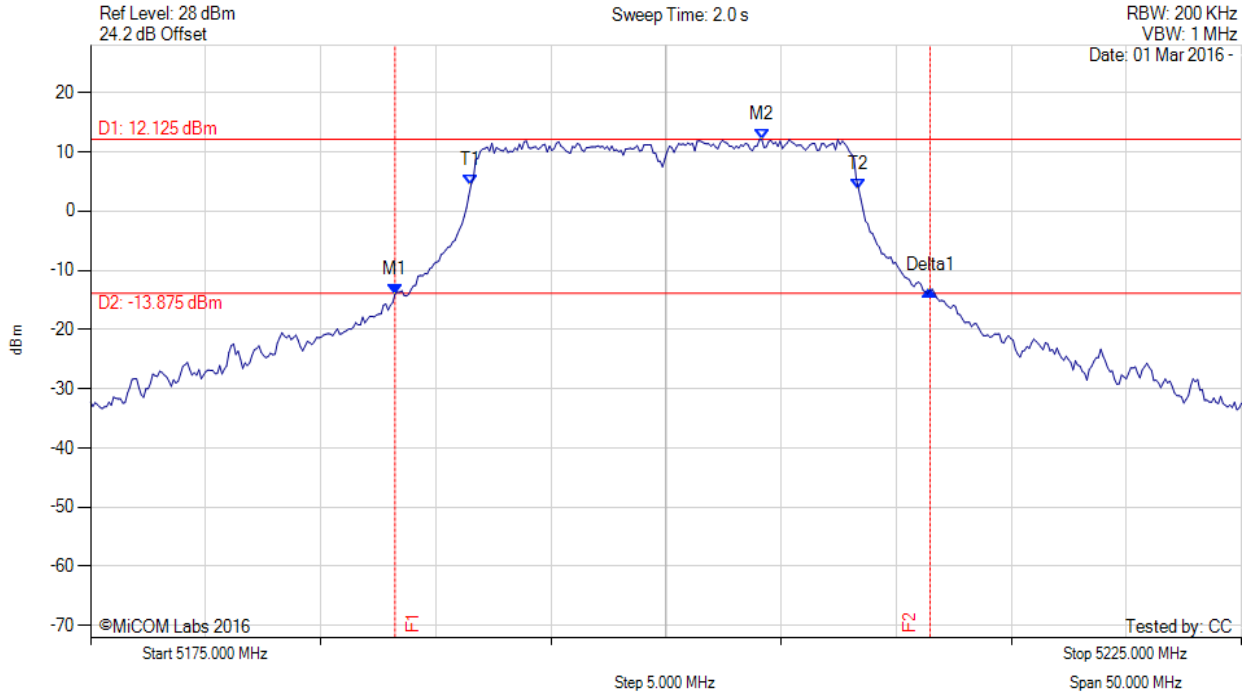


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.828 MHz : -12.976 dBm M2 : 5204.158 MHz : 13.284 dBm Delta1 : 21.944 MHz : 0.480 dB T1 : 5191.533 MHz : 5.108 dBm T2 : 5208.367 MHz : 5.110 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 21.944 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

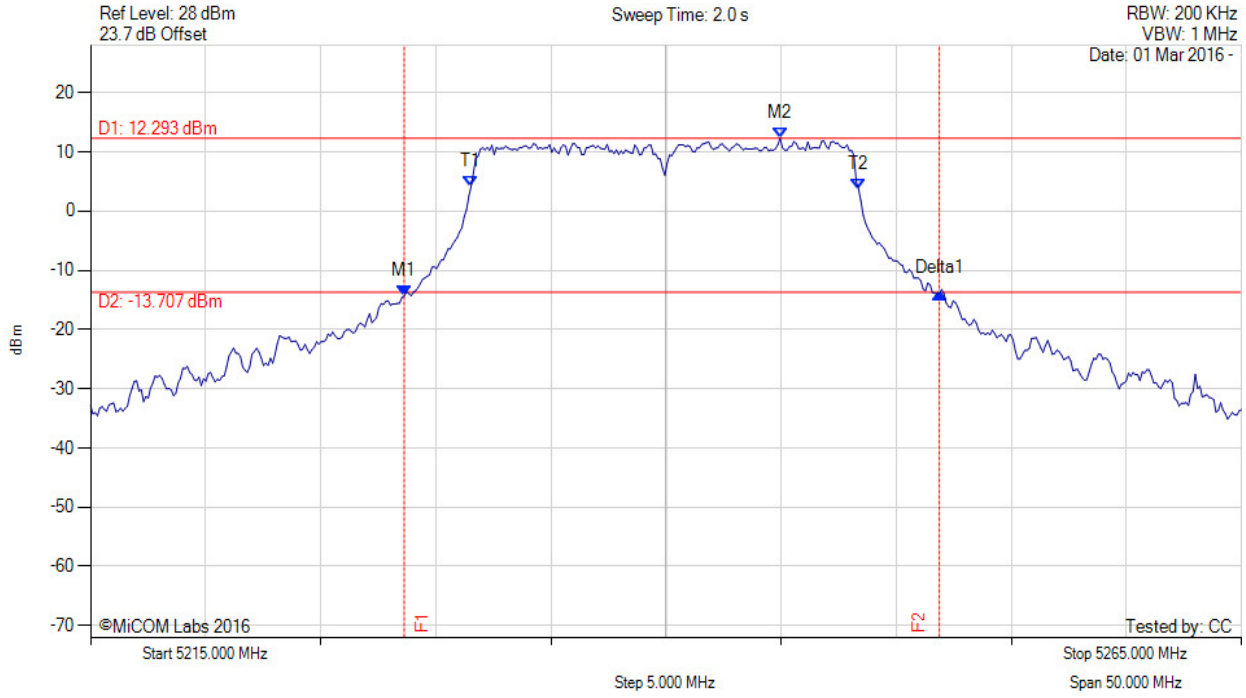


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.226 MHz : -14.052 dBm M2 : 5204.158 MHz : 12.125 dBm Delta1 : 23.246 MHz : 0.687 dB T1 : 5191.533 MHz : 4.447 dBm T2 : 5208.367 MHz : 3.717 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.246 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

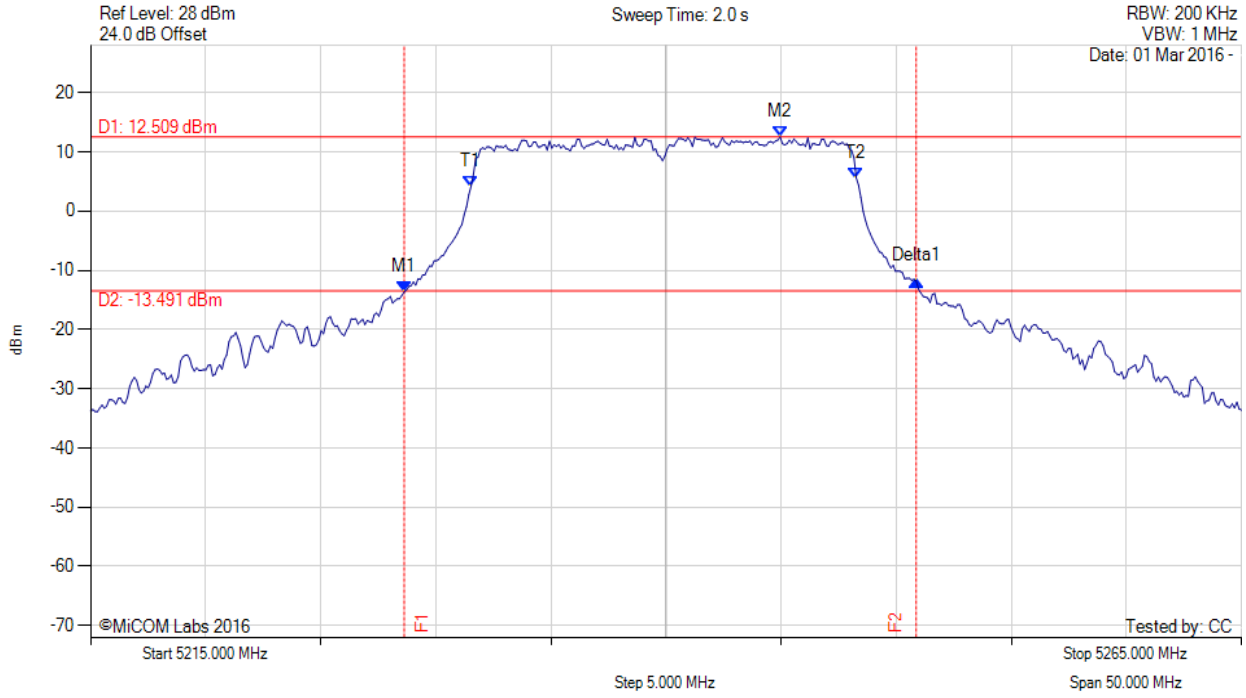


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.627 MHz : -14.345 dBm M2 : 5244.960 MHz : 12.293 dBm Delta1 : 23.246 MHz : 0.504 dB T1 : 5231.533 MHz : 4.148 dBm T2 : 5248.367 MHz : 3.676 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.246 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

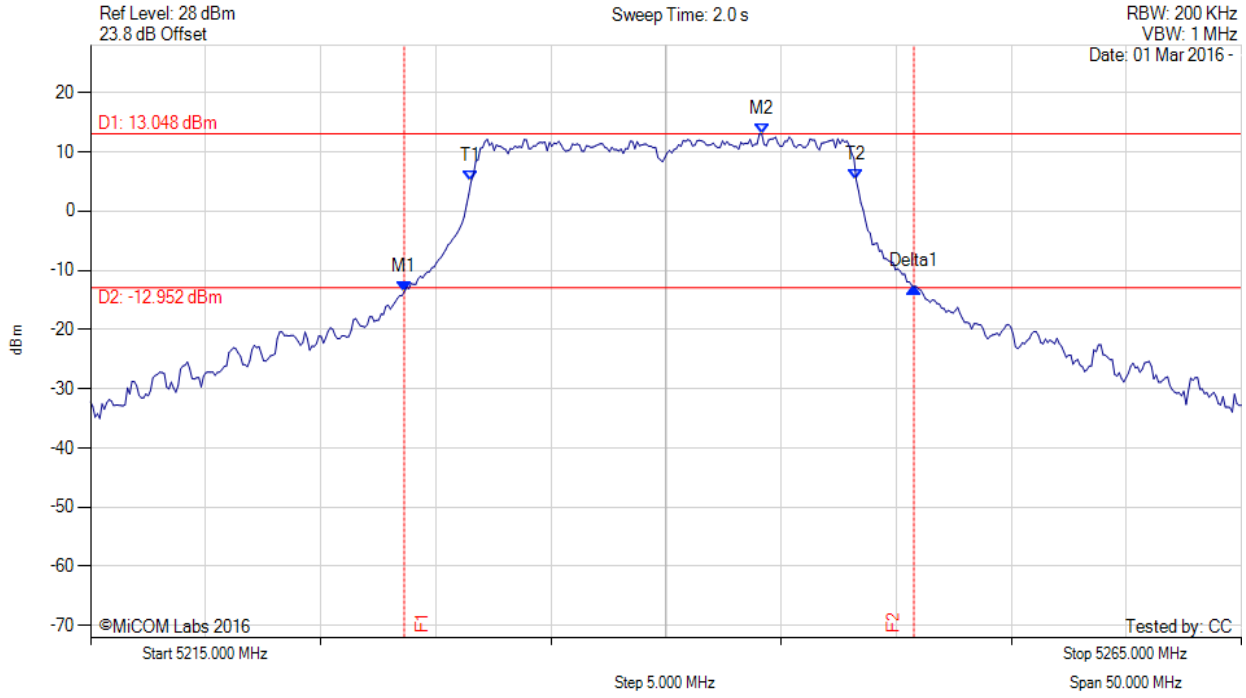


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.627 MHz : -13.676 dBm M2 : 5244.960 MHz : 12.509 dBm Delta1 : 22.244 MHz : 1.861 dB T1 : 5231.533 MHz : 4.205 dBm T2 : 5248.267 MHz : 5.608 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.244 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.627 MHz : -13.676 dBm M2 : 5244.158 MHz : 13.048 dBm Delta1 : 22.144 MHz : 0.870 dB T1 : 5231.533 MHz : 4.992 dBm T2 : 5248.267 MHz : 5.226 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.144 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

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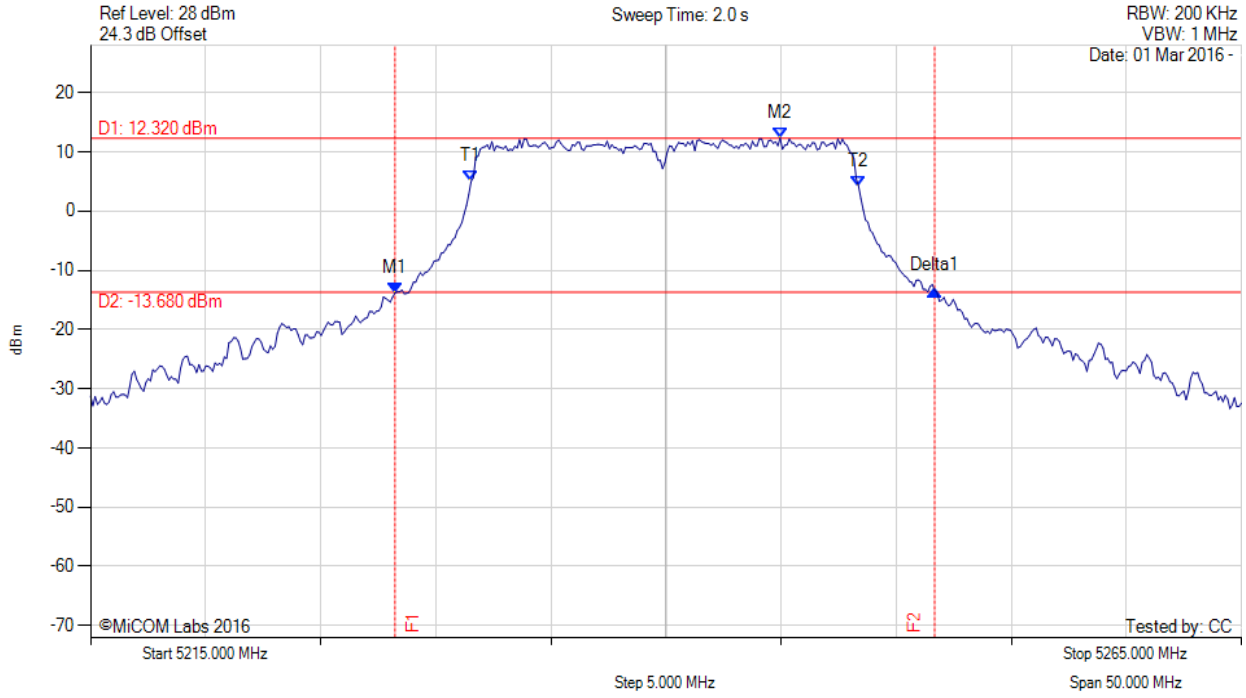
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

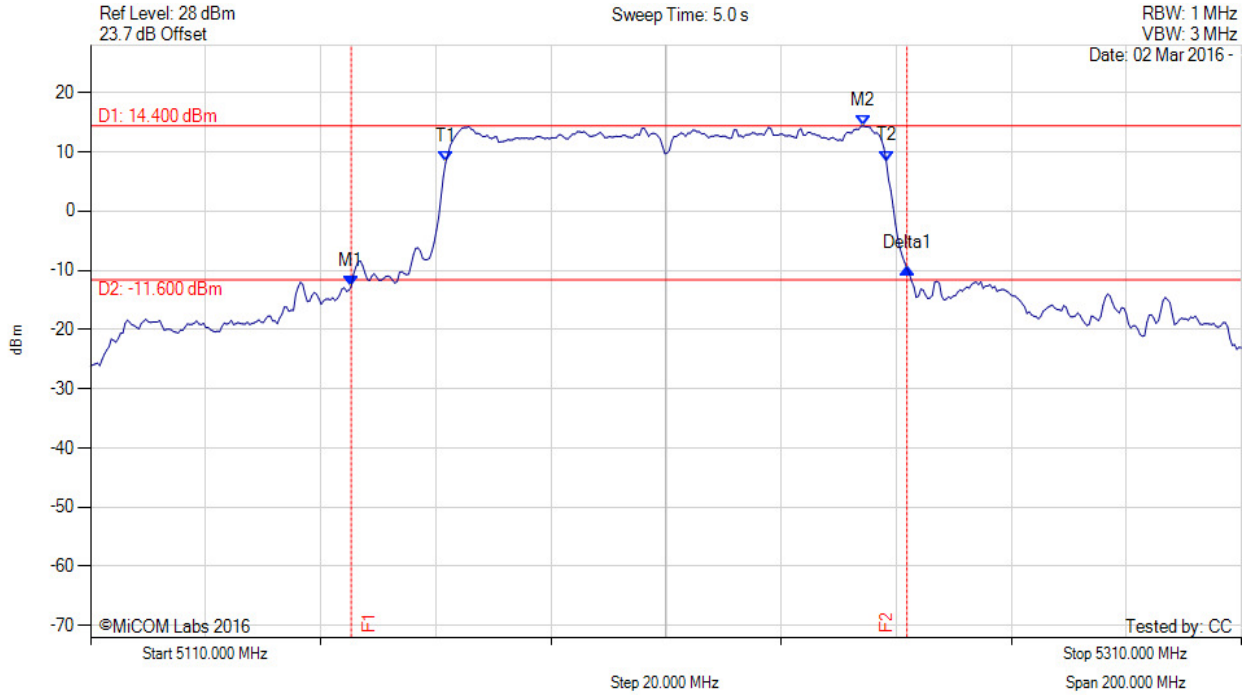


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.226 MHz : -13.808 dBm M2 : 5244.960 MHz : 12.320 dBm Delta1 : 23.447 MHz : 0.439 dB T1 : 5231.533 MHz : 4.982 dBm T2 : 5248.367 MHz : 4.177 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 23.447 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

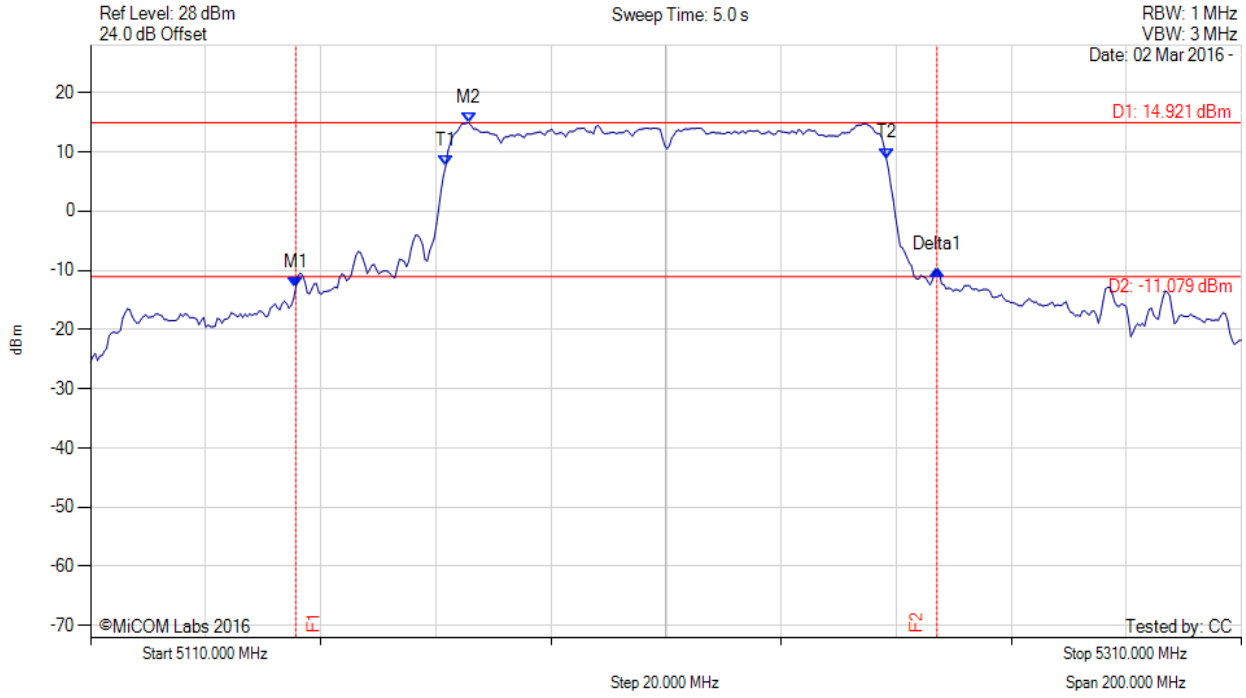


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5155.291 MHz : -12.742 dBm M2 : 5244.269 MHz : 14.400 dBm Delta1 : 96.593 MHz : 3.075 dB T1 : 5171.723 MHz : 8.246 dBm T2 : 5248.277 MHz : 8.458 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 96.593 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

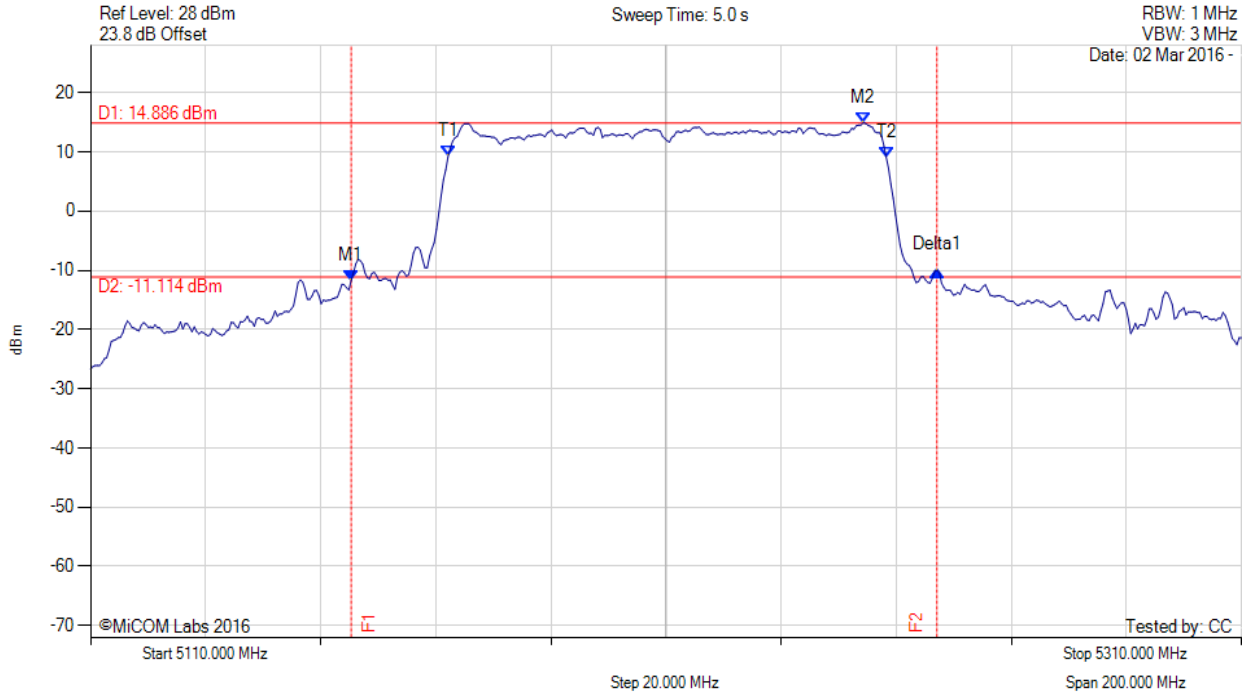


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5145.671 MHz : -12.917 dBm M2 : 5175.731 MHz : 14.921 dBm Delta1 : 111.423 MHz : 2.947 dB T1 : 5171.723 MHz : 7.608 dBm T2 : 5248.277 MHz : 8.932 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 111.423 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

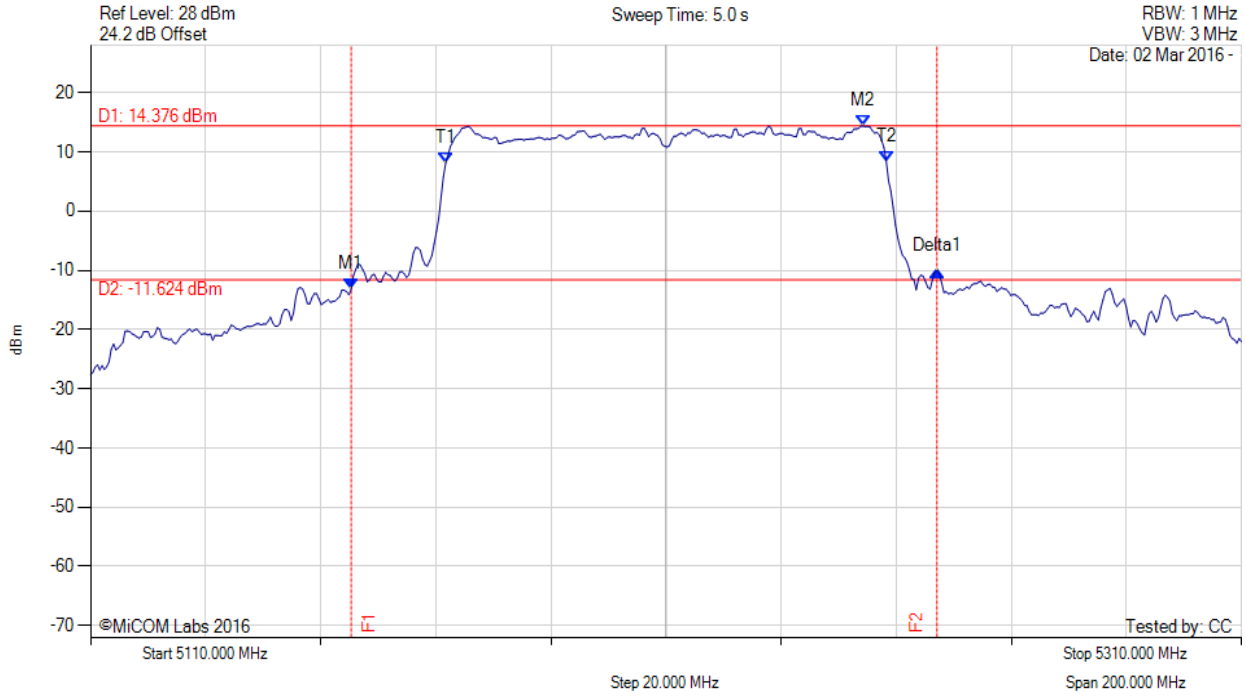


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5155.291 MHz : -11.709 dBm M2 : 5244.269 MHz : 14.886 dBm Delta1 : 101.804 MHz : 1.700 dB T1 : 5172.124 MHz : 9.192 dBm T2 : 5248.277 MHz : 9.072 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 101.804 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

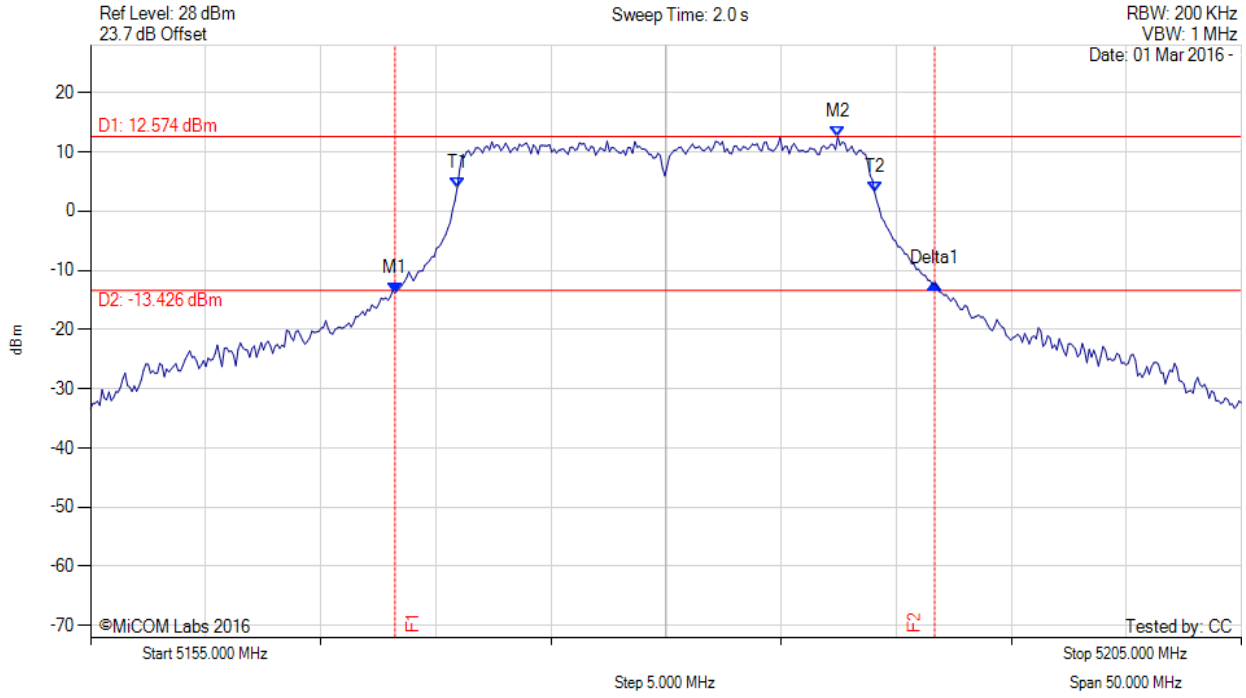


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5155.291 MHz : -13.181 dBm M2 : 5244.269 MHz : 14.376 dBm Delta1 : 101.804 MHz : 3.160 dB T1 : 5171.723 MHz : 8.114 dBm T2 : 5248.277 MHz : 8.429 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 101.804 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

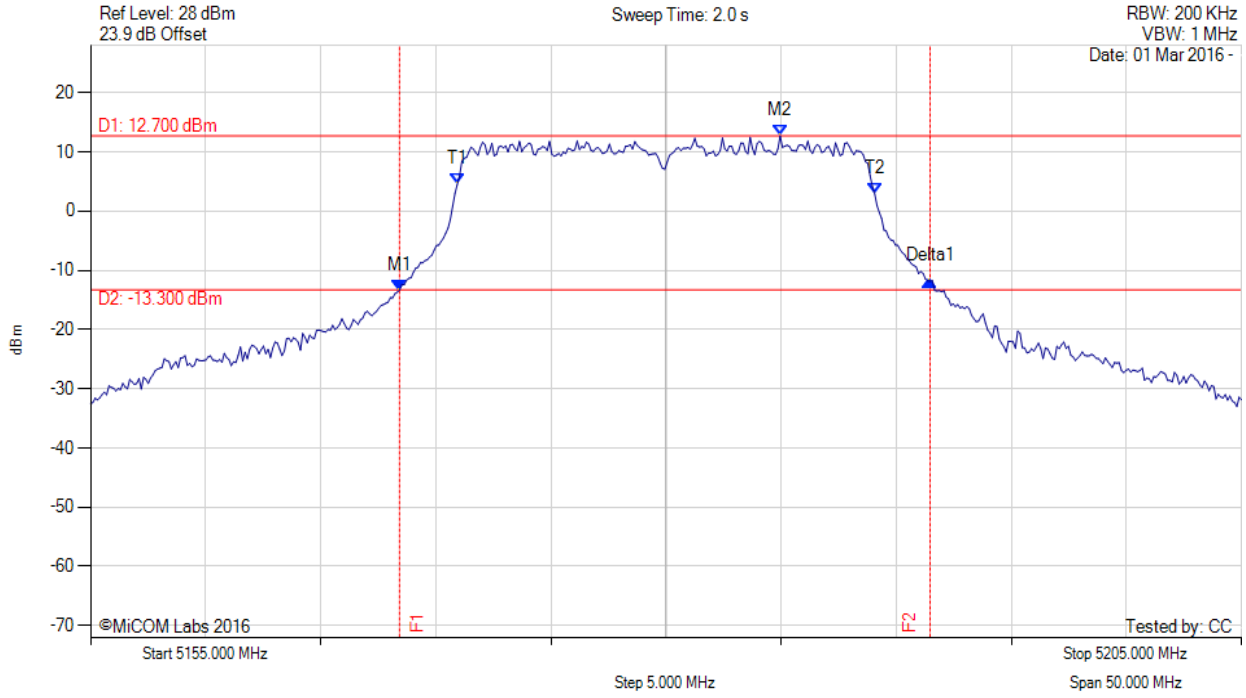


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.226 MHz : -13.832 dBm M2 : 5187.465 MHz : 12.574 dBm Delta1 : 23.447 MHz : 1.631 dB T1 : 5170.932 MHz : 3.979 dBm T2 : 5189.068 MHz : 3.115 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.447 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

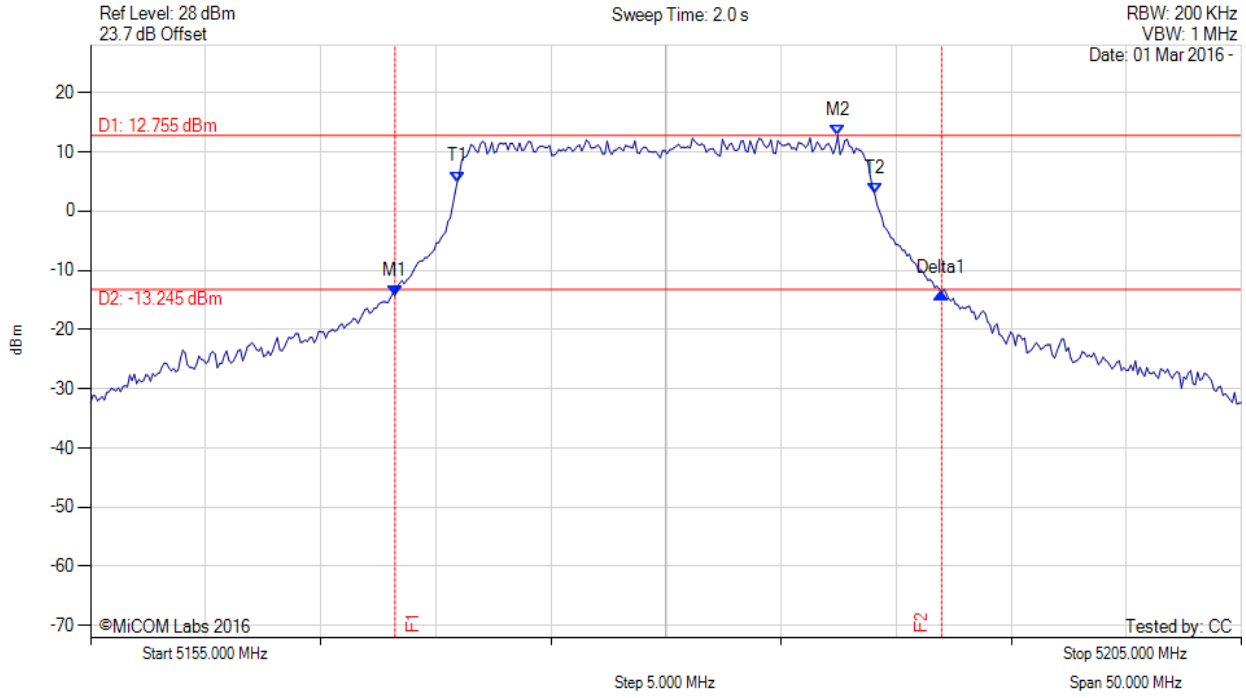


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.427 MHz : -13.326 dBm M2 : 5184.960 MHz : 12.700 dBm Delta1 : 23.046 MHz : 1.472 dB T1 : 5170.932 MHz : 4.512 dBm T2 : 5189.068 MHz : 2.920 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.046 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

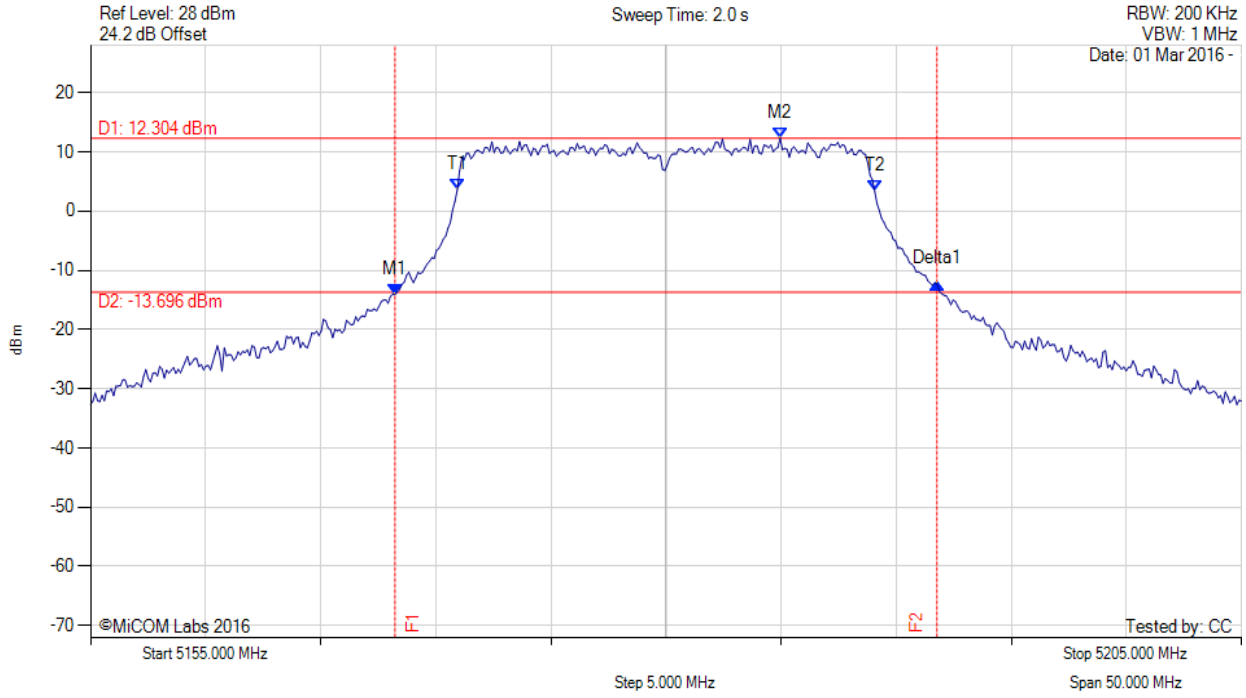


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.226 MHz : -14.251 dBm M2 : 5187.465 MHz : 12.755 dBm Delta1 : 23.747 MHz : 0.482 dB T1 : 5170.932 MHz : 4.958 dBm T2 : 5189.068 MHz : 2.930 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

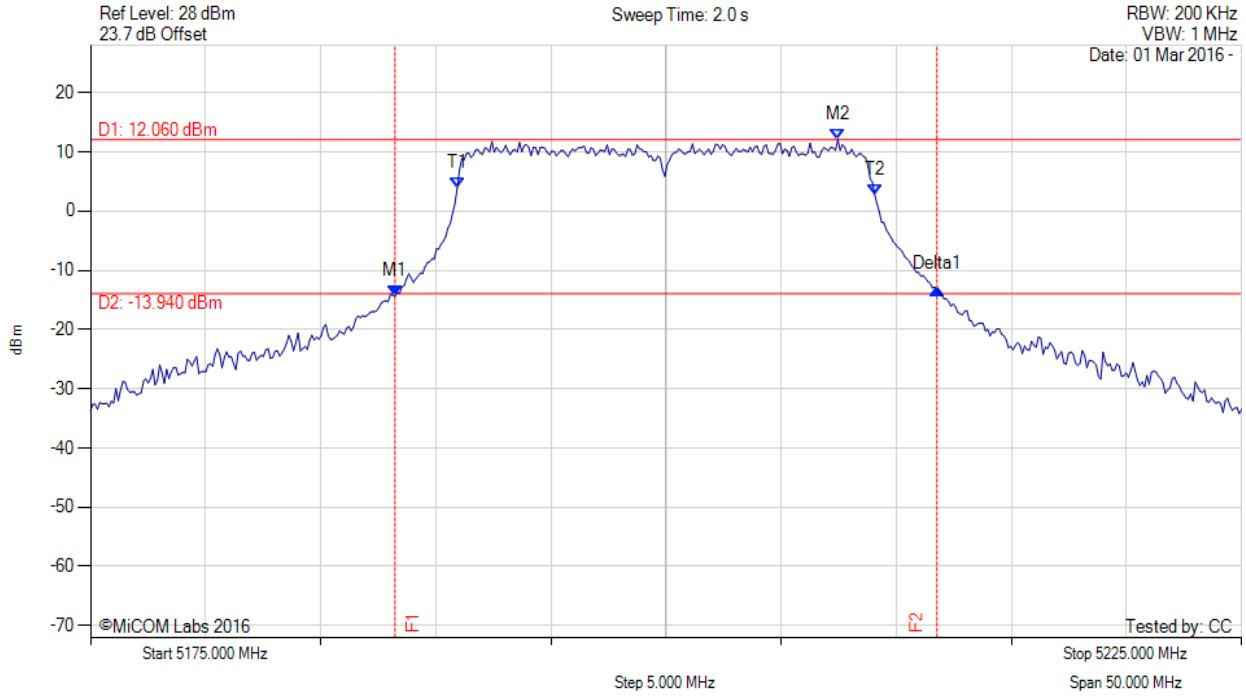


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.226 MHz : -14.094 dBm M2 : 5184.960 MHz : 12.304 dBm Delta1 : 23.547 MHz : 1.814 dB T1 : 5170.932 MHz : 3.603 dBm T2 : 5189.068 MHz : 3.355 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

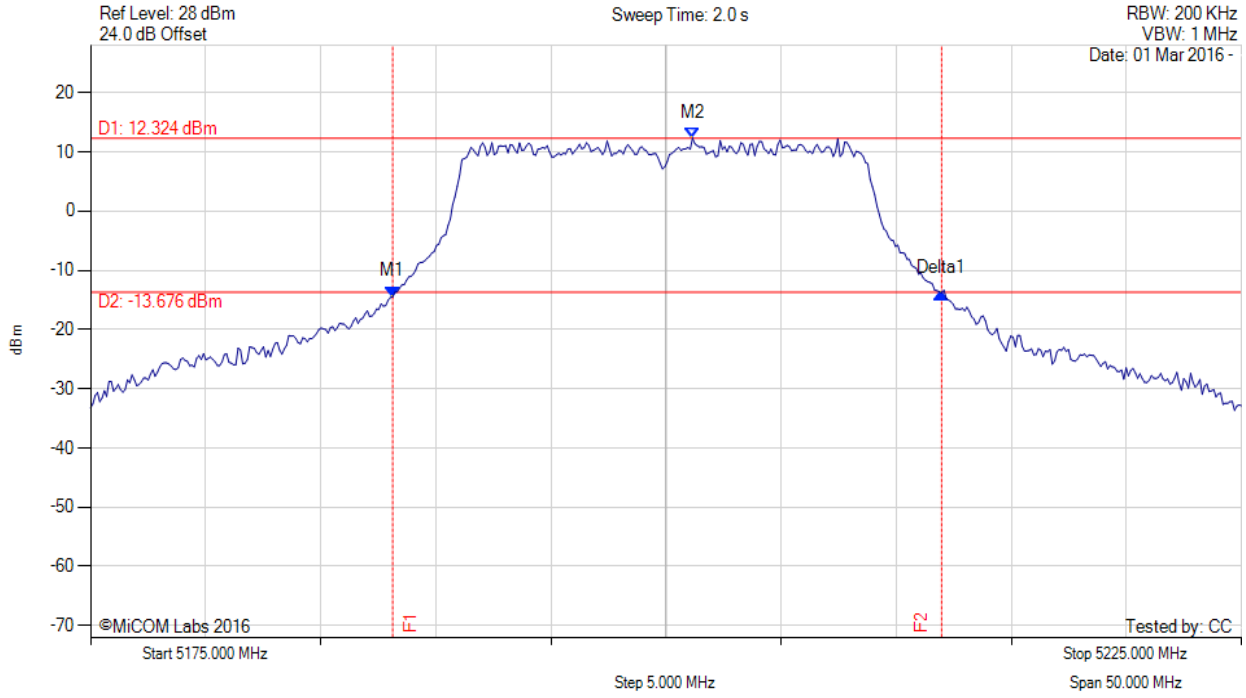


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.226 MHz : -14.349 dBm M2 : 5207.465 MHz : 12.060 dBm Delta1 : 23.547 MHz : 1.271 dB T1 : 5190.932 MHz : 3.977 dBm T2 : 5209.068 MHz : 2.788 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.126 MHz : -14.461 dBm M2 : 5201.152 MHz : 12.324 dBm Delta1 : 23.848 MHz : 0.653 dB T1 : 0 Hz : 500.000 dBm T2 : 0 Hz : 500.000 dBm OBW : 18.036 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.036 MHz

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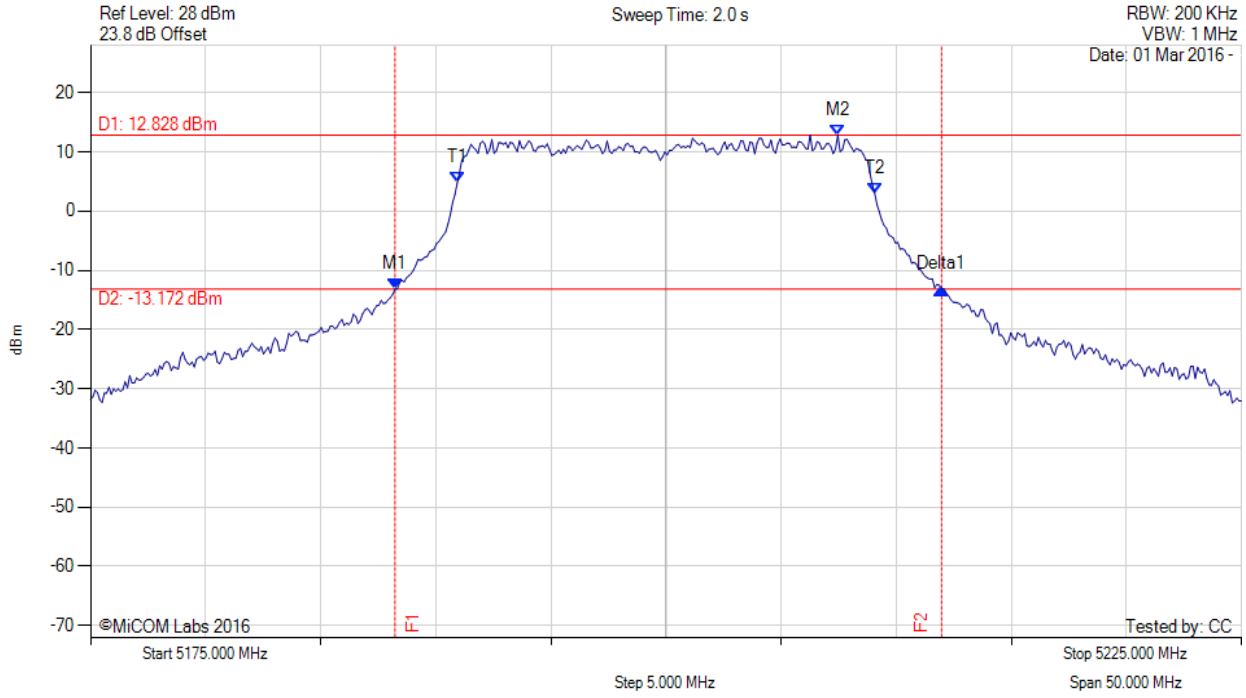
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

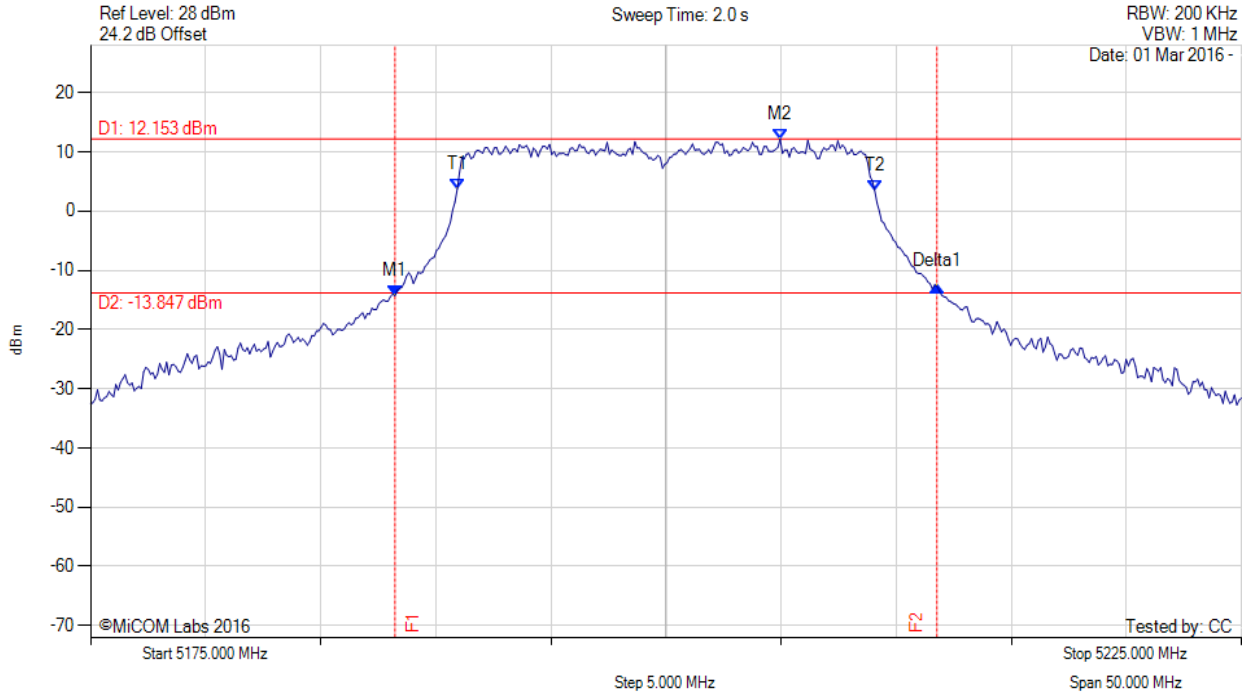


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.226 MHz : -13.204 dBm M2 : 5207.465 MHz : 12.828 dBm Delta1 : 23.747 MHz : 0.144 dB T1 : 5190.932 MHz : 4.766 dBm T2 : 5209.068 MHz : 3.007 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5188.226 MHz : -14.288 dBm M2 : 5204.960 MHz : 12.153 dBm Delta1 : 23.547 MHz : 1.584 dB T1 : 5190.932 MHz : 3.729 dBm T2 : 5209.068 MHz : 3.449 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.136 MHz

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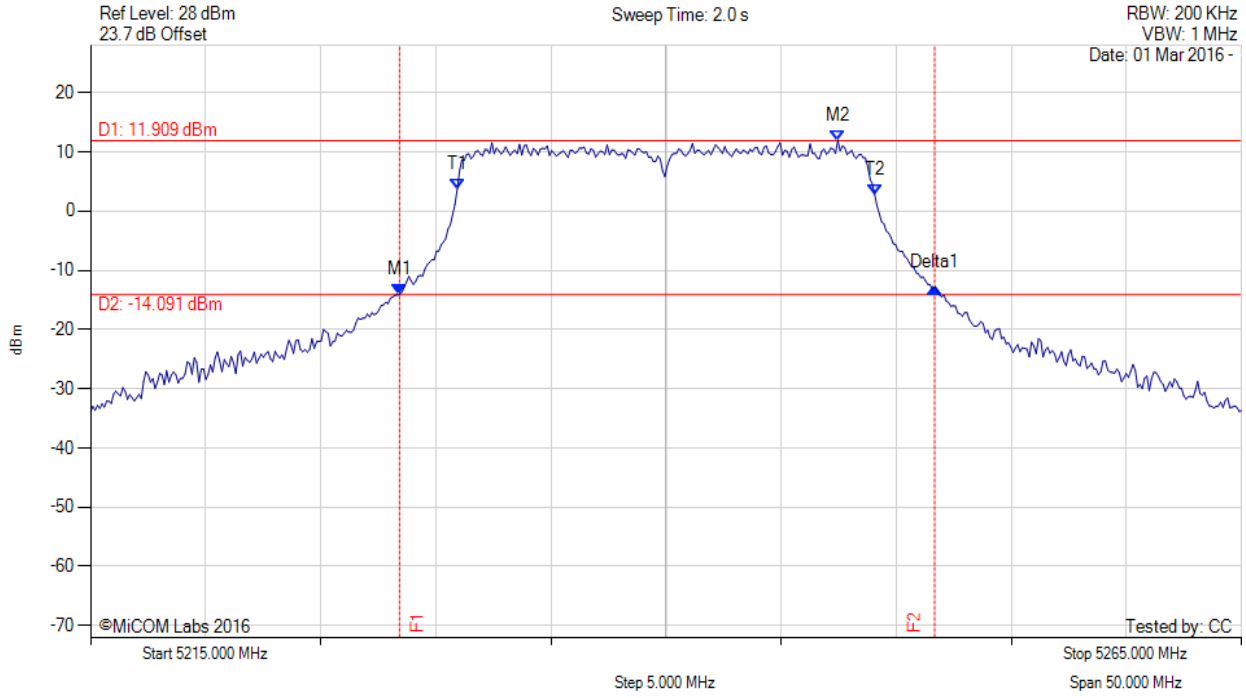
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.427 MHz : -14.137 dBm M2 : 5247.465 MHz : 11.909 dBm Delta1 : 23.246 MHz : 1.273 dB T1 : 5230.932 MHz : 3.731 dBm T2 : 5249.068 MHz : 2.747 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.246 MHz Measured 99% Bandwidth: 18.136 MHz

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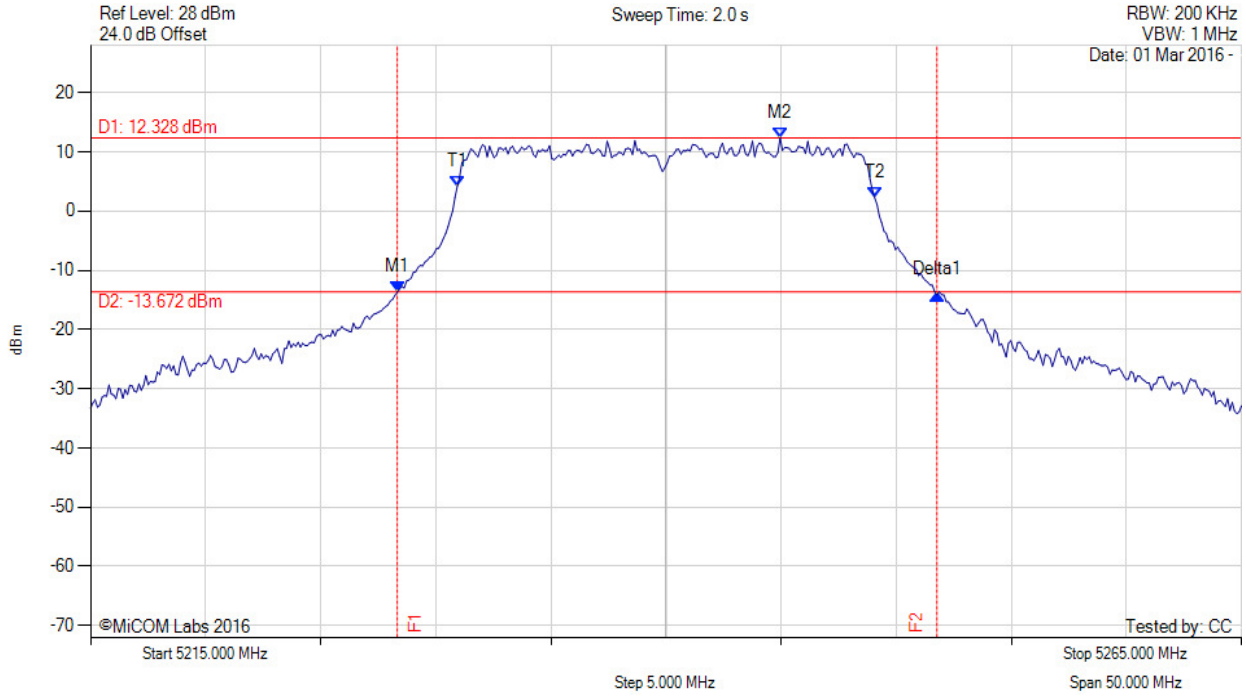
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.327 MHz : -13.684 dBm M2 : 5244.960 MHz : 12.328 dBm Delta1 : 23.447 MHz : -0.474 dB T1 : 5230.932 MHz : 4.167 dBm T2 : 5249.068 MHz : 2.234 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.447 MHz Measured 99% Bandwidth: 18.136 MHz

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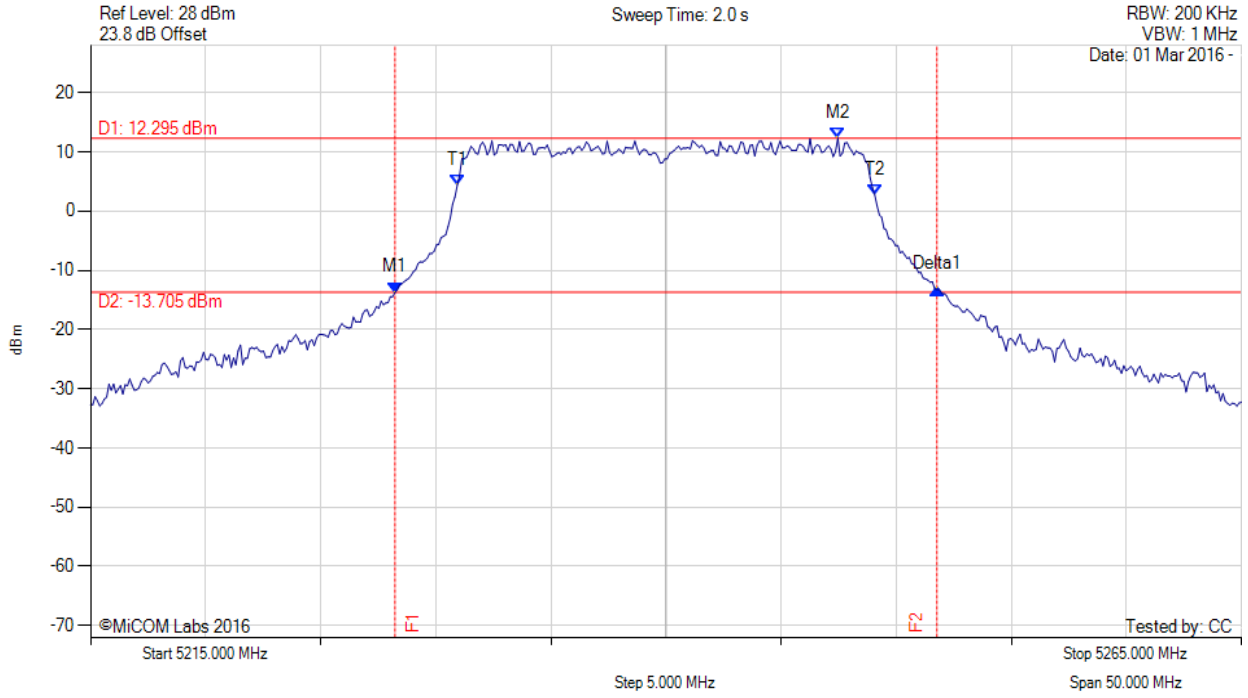
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.226 MHz : -13.743 dBm M2 : 5247.465 MHz : 12.295 dBm Delta1 : 23.547 MHz : 0.504 dB T1 : 5230.932 MHz : 4.356 dBm T2 : 5249.068 MHz : 2.743 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.136 MHz

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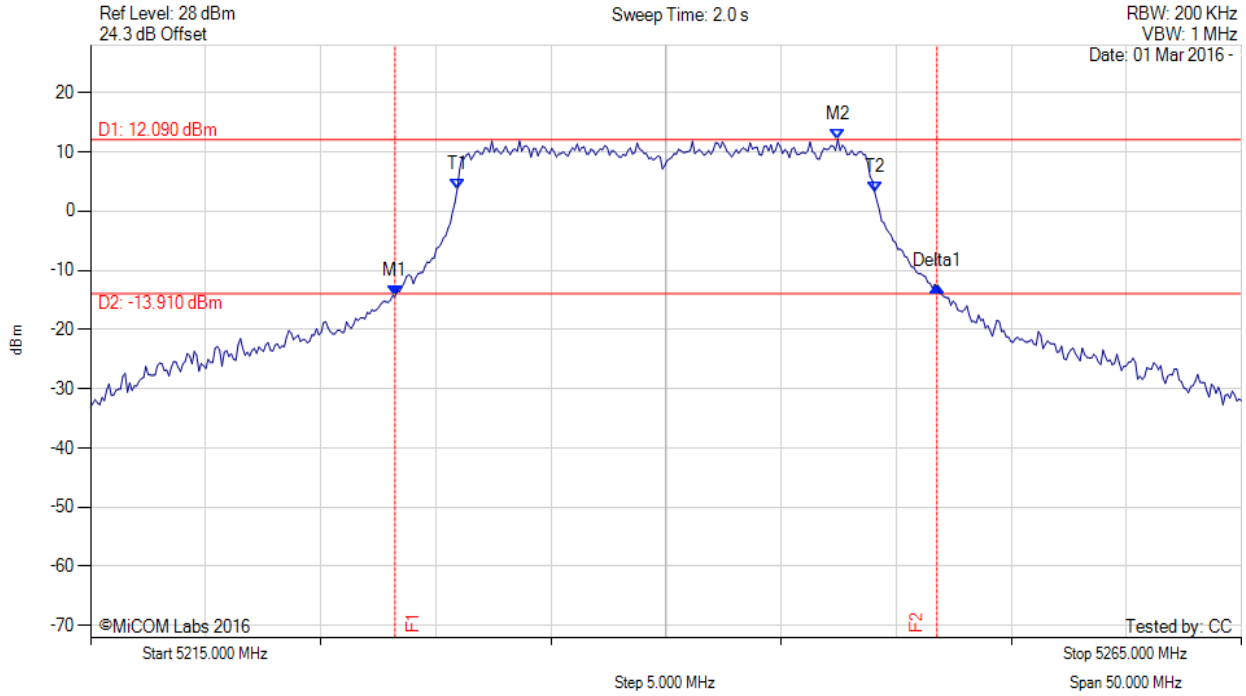
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5228.226 MHz : -14.389 dBm M2 : 5247.465 MHz : 12.090 dBm Delta1 : 23.547 MHz : 1.723 dB T1 : 5230.932 MHz : 3.746 dBm T2 : 5249.068 MHz : 3.205 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.547 MHz Measured 99% Bandwidth: 18.136 MHz

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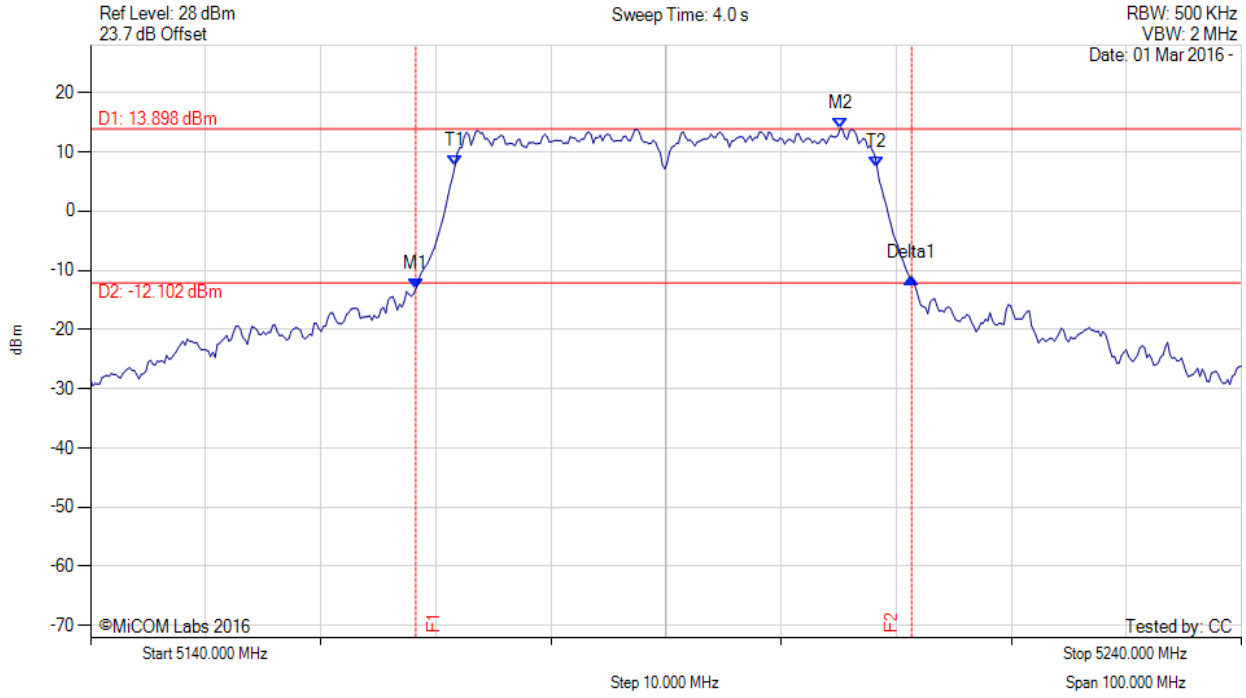
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.257 MHz : -13.165 dBm M2 : 5205.130 MHz : 13.898 dBm Delta1 : 43.086 MHz : 1.839 dB T1 : 5171.663 MHz : 7.604 dBm T2 : 5208.337 MHz : 7.423 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

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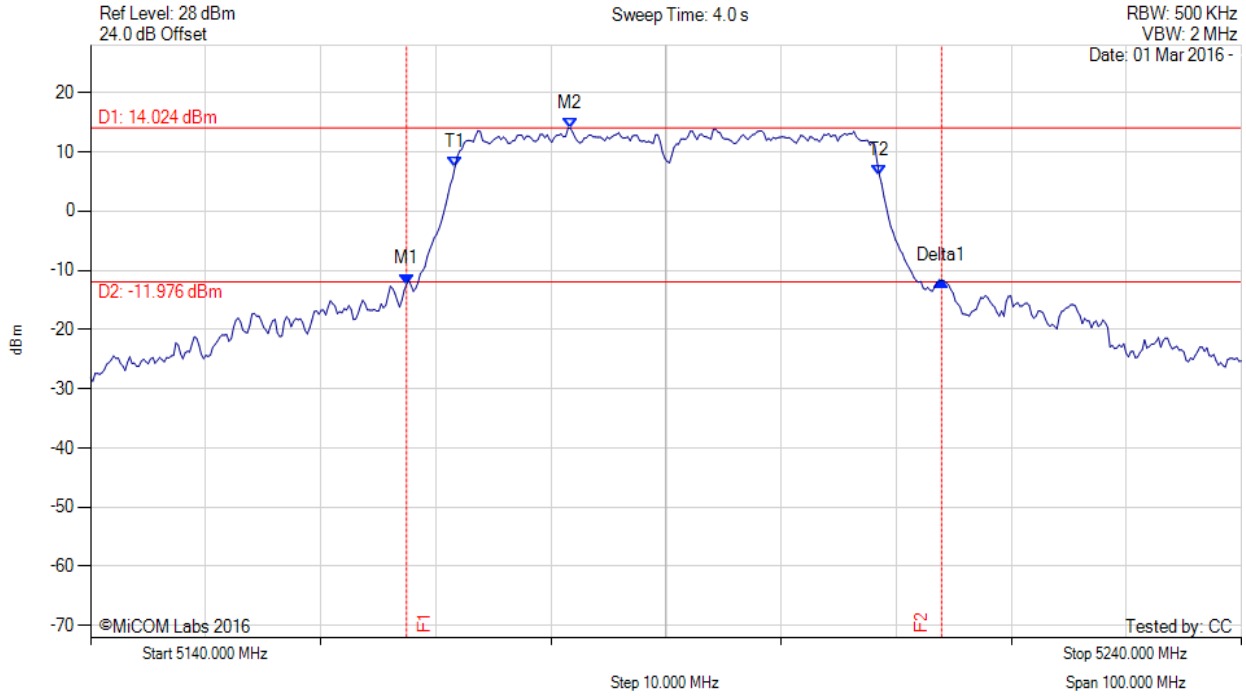
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5167.455 MHz : -12.331 dBm M2 : 5181.683 MHz : 14.024 dBm Delta1 : 46.493 MHz : 0.663 dB T1 : 5171.663 MHz : 7.477 dBm T2 : 5208.537 MHz : 6.101 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 46.493 MHz Measured 99% Bandwidth: 36.874 MHz

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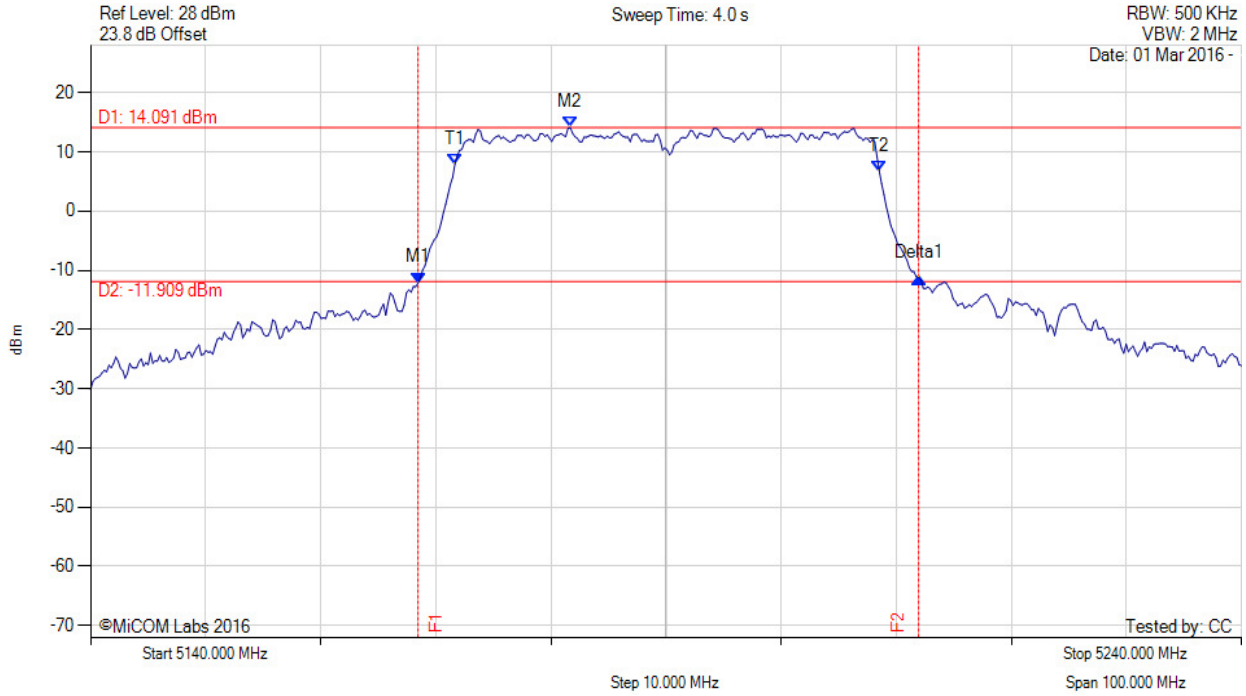
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.457 MHz : -12.114 dBm M2 : 5181.683 MHz : 14.091 dBm Delta1 : 43.487 MHz : 0.883 dB T1 : 5171.663 MHz : 7.959 dBm T2 : 5208.537 MHz : 6.713 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.874 MHz

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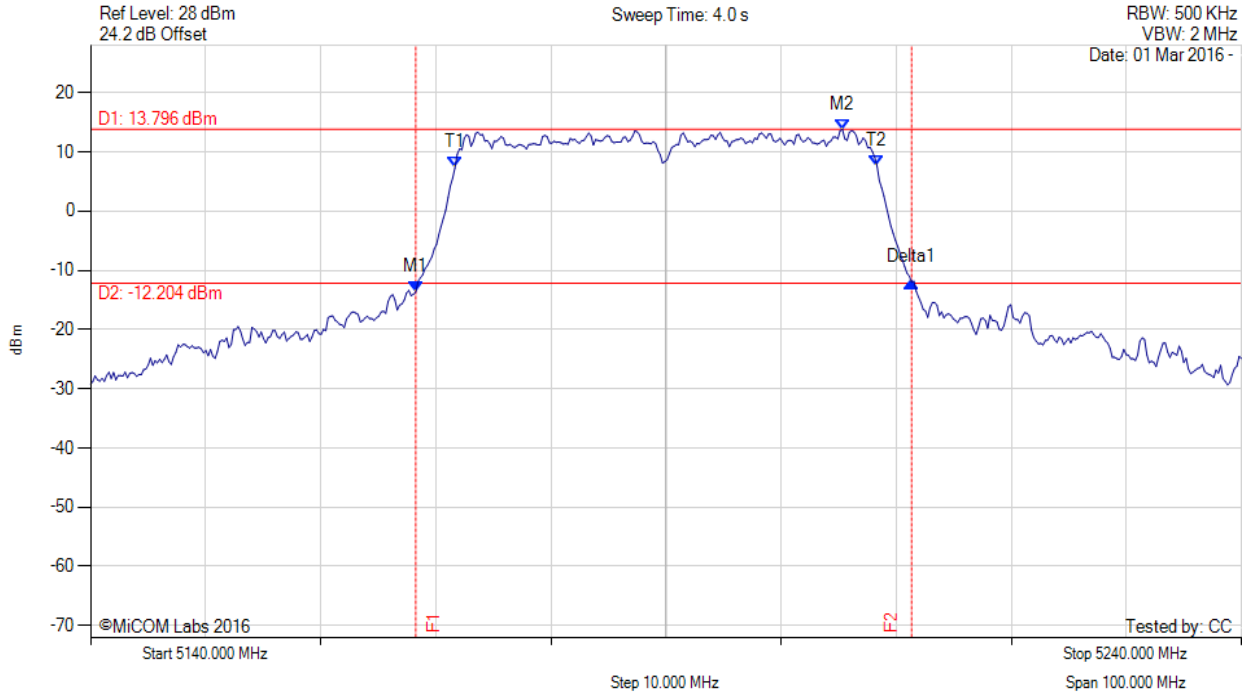
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5168.257 MHz : -13.690 dBm M2 : 5205.331 MHz : 13.796 dBm Delta1 : 43.086 MHz : 1.696 dB T1 : 5171.663 MHz : 7.317 dBm T2 : 5208.337 MHz : 7.583 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

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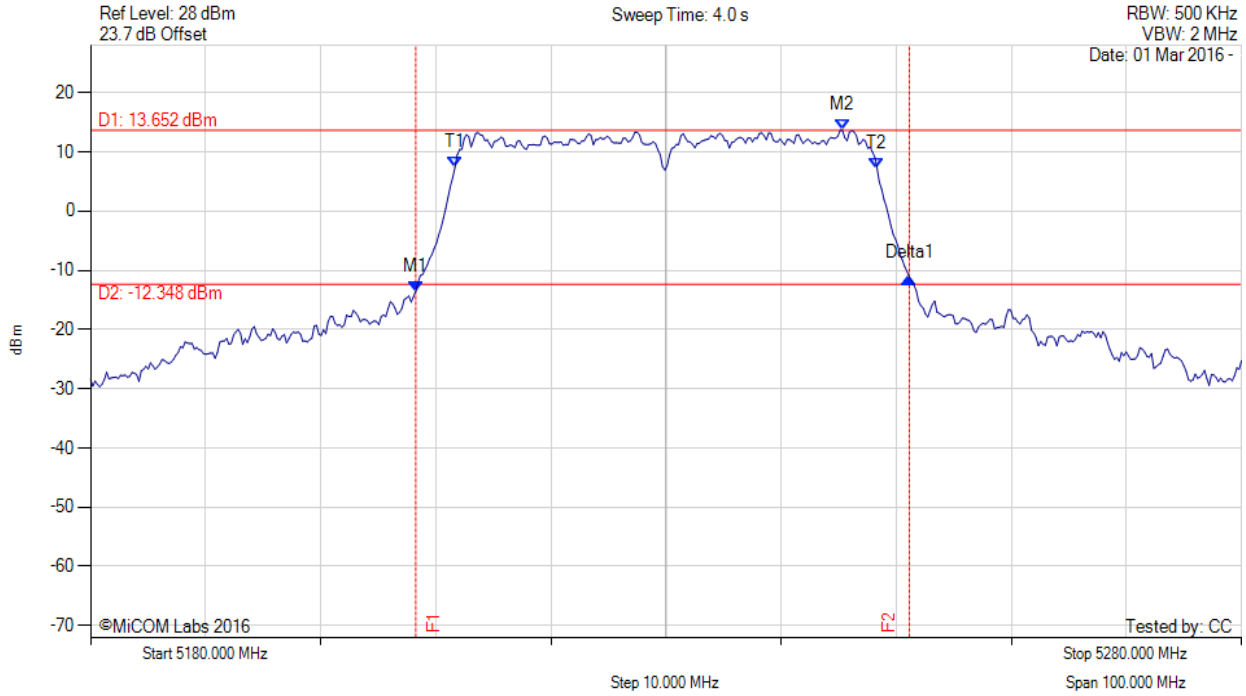
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5208.257 MHz : -13.529 dBm M2 : 5245.331 MHz : 13.652 dBm Delta1 : 42.886 MHz : 2.339 dB T1 : 5211.663 MHz : 7.364 dBm T2 : 5248.337 MHz : 7.197 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 42.886 MHz Measured 99% Bandwidth: 36.673 MHz

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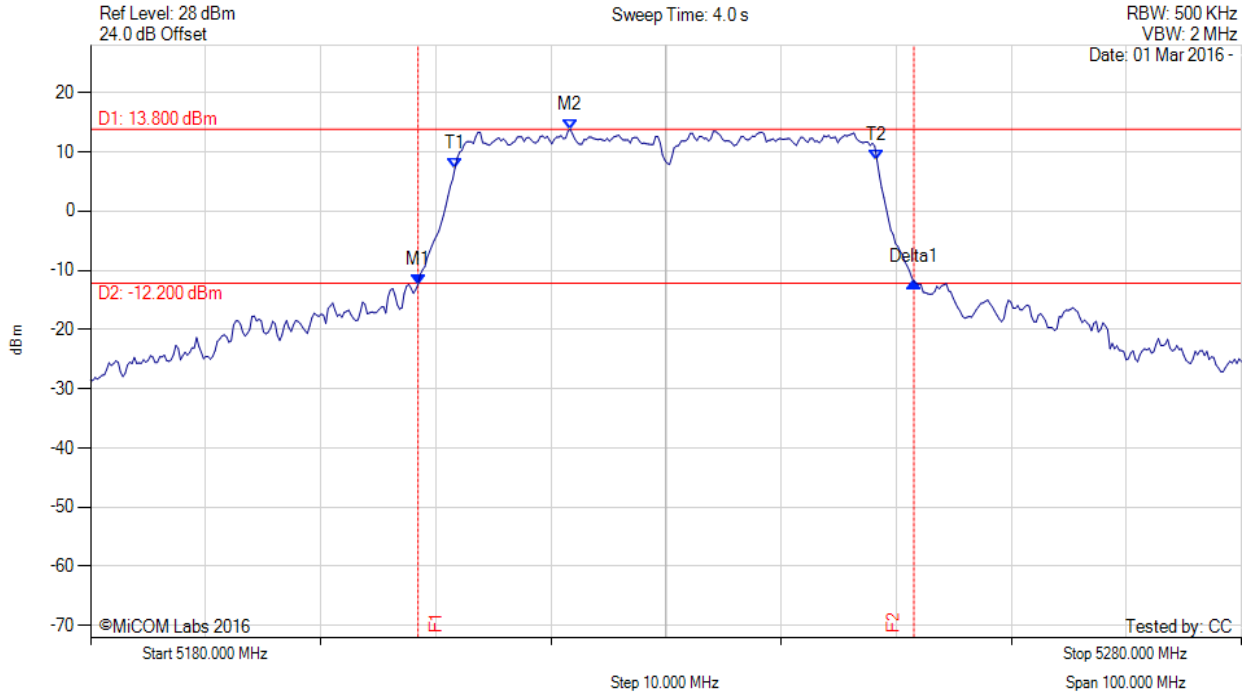
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5208.457 MHz : -12.364 dBm M2 : 5221.683 MHz : 13.800 dBm Delta1 : 43.086 MHz : 0.441 dB T1 : 5211.663 MHz : 7.254 dBm T2 : 5248.337 MHz : 8.509 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.086 MHz Measured 99% Bandwidth: 36.673 MHz

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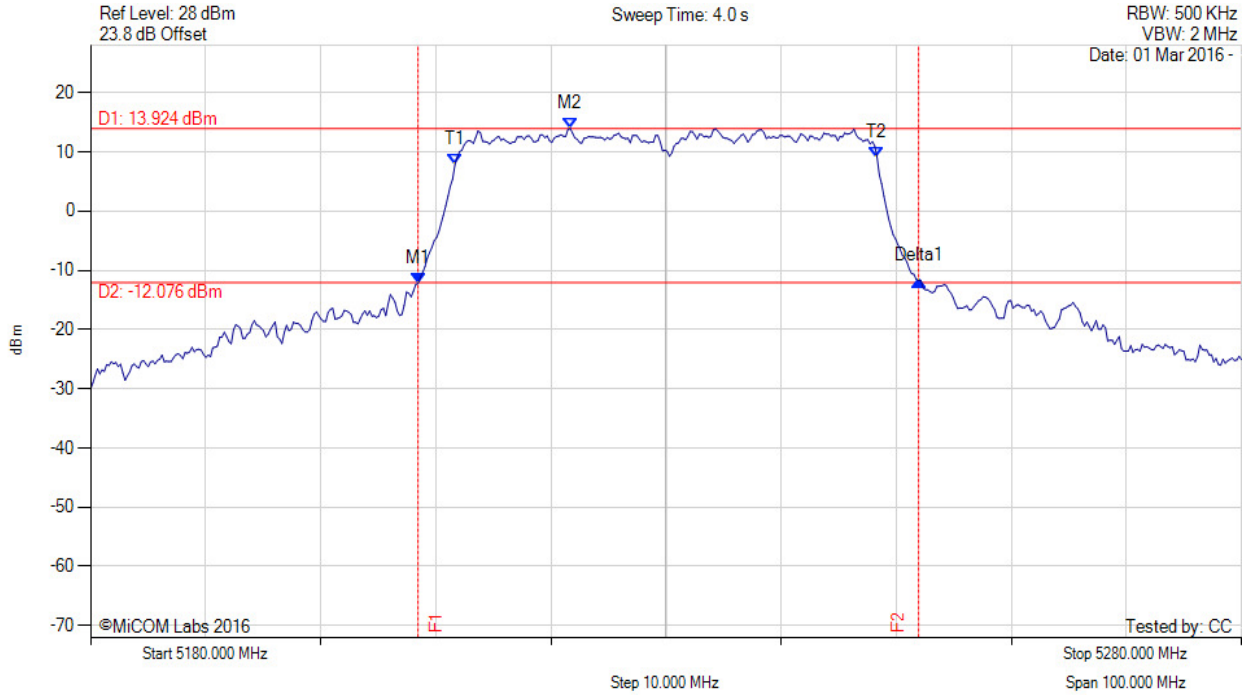
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5208.457 MHz : -12.195 dBm M2 : 5221.683 MHz : 13.924 dBm Delta1 : 43.487 MHz : 0.476 dB T1 : 5211.663 MHz : 7.835 dBm T2 : 5248.337 MHz : 9.113 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.487 MHz Measured 99% Bandwidth: 36.673 MHz

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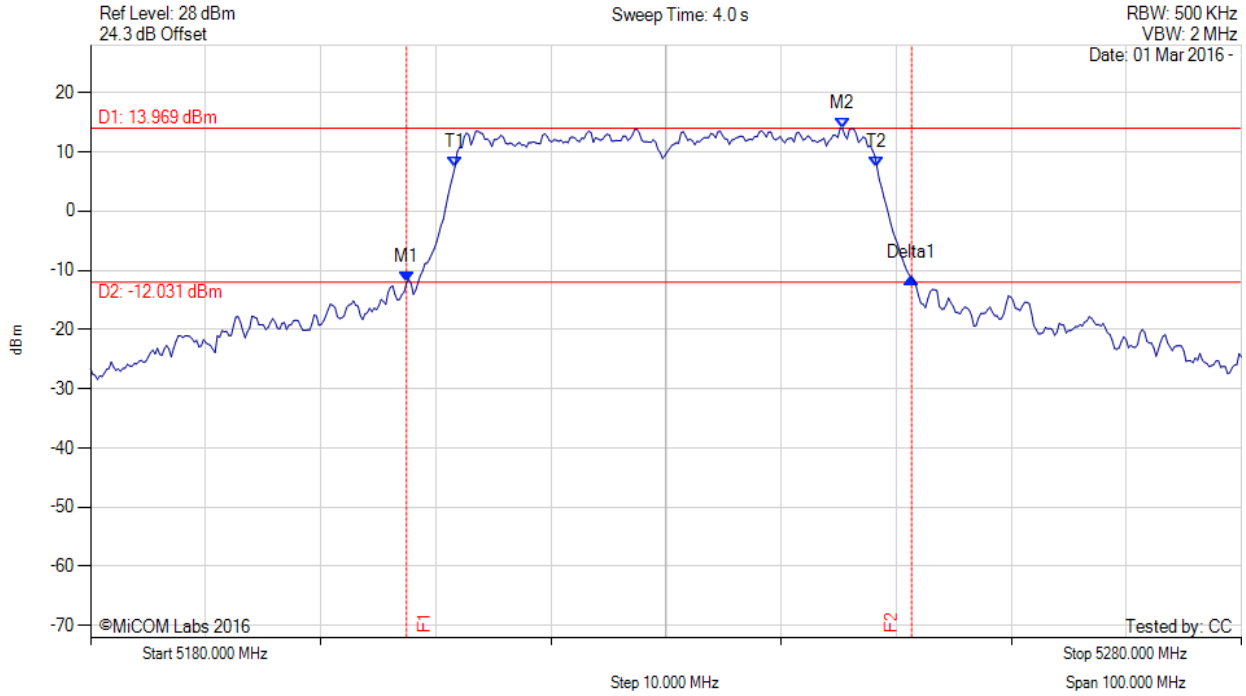
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5207.455 MHz : -12.081 dBm M2 : 5245.331 MHz : 13.969 dBm Delta1 : 43.888 MHz : 0.881 dB T1 : 5211.663 MHz : 7.477 dBm T2 : 5248.337 MHz : 7.390 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.888 MHz Measured 99% Bandwidth: 36.673 MHz

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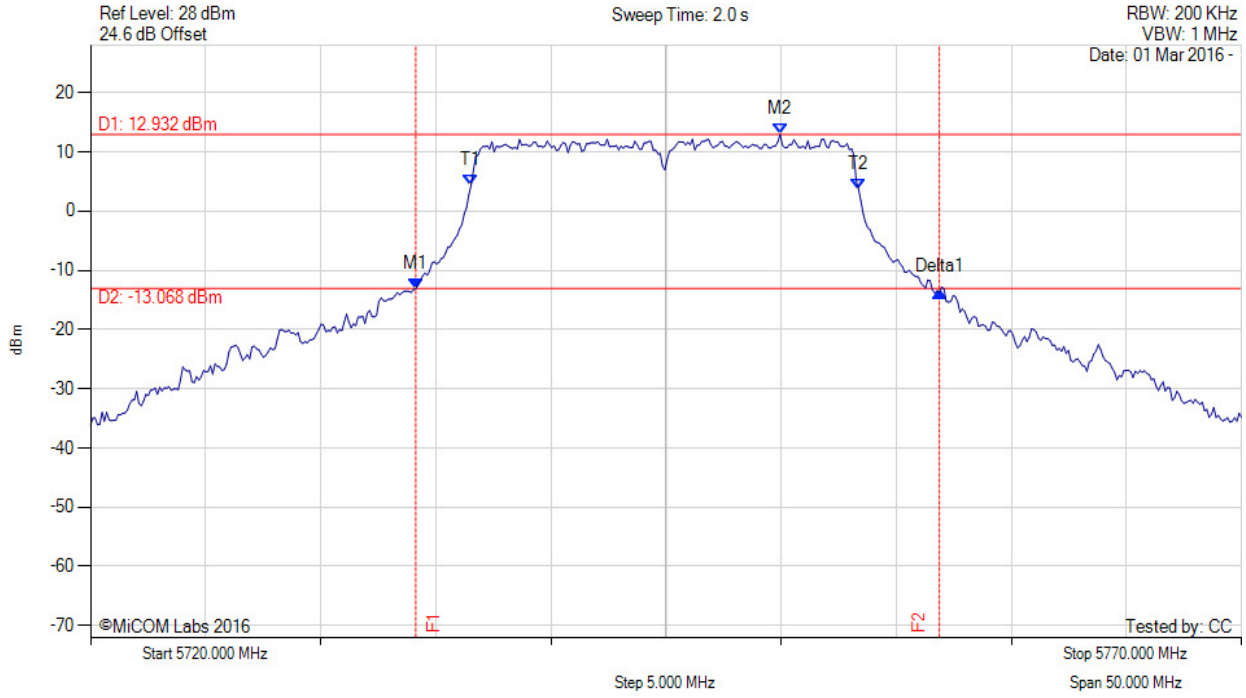
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

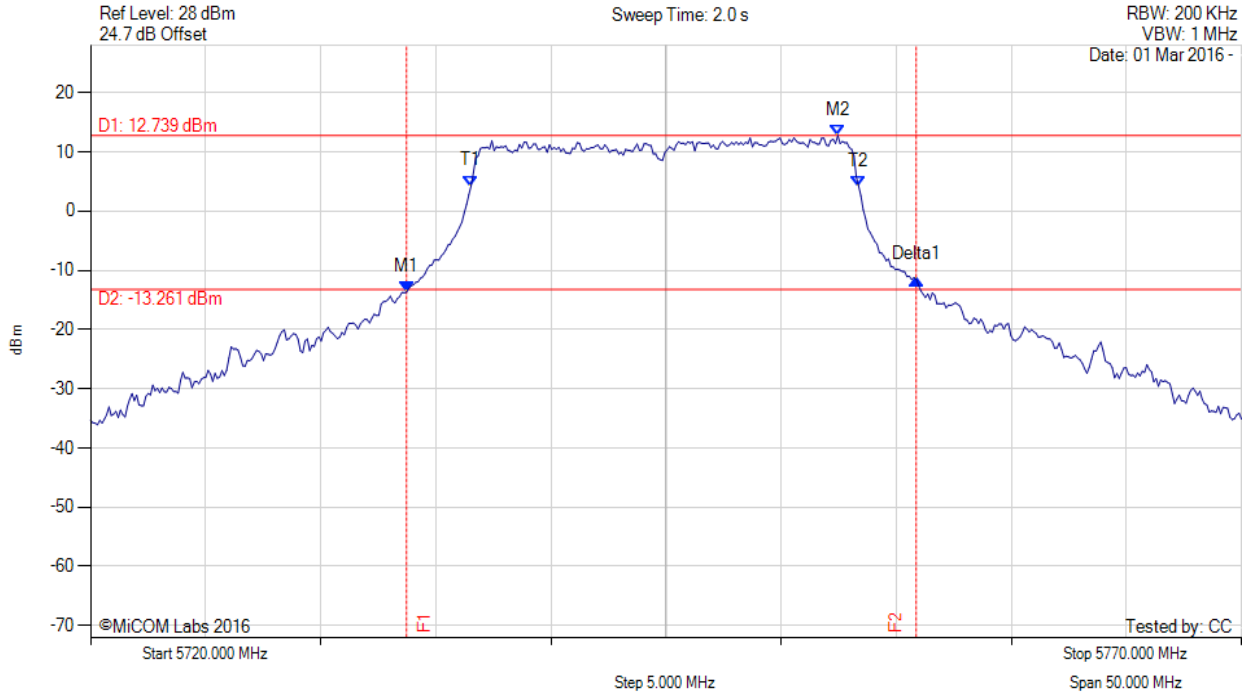


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5734.128 MHz : -13.110 dBm M2 : 5749.960 MHz : 12.932 dBm Delta1 : 22.745 MHz : -0.561 dB T1 : 5736.533 MHz : 4.364 dBm T2 : 5753.367 MHz : 3.674 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 22.745 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.727 MHz : -13.700 dBm M2 : 5752.465 MHz : 12.739 dBm Delta1 : 22.144 MHz : 2.253 dB T1 : 5736.533 MHz : 4.236 dBm T2 : 5753.367 MHz : 4.228 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 22.144 MHz Measured 99% Bandwidth: 16.834 MHz

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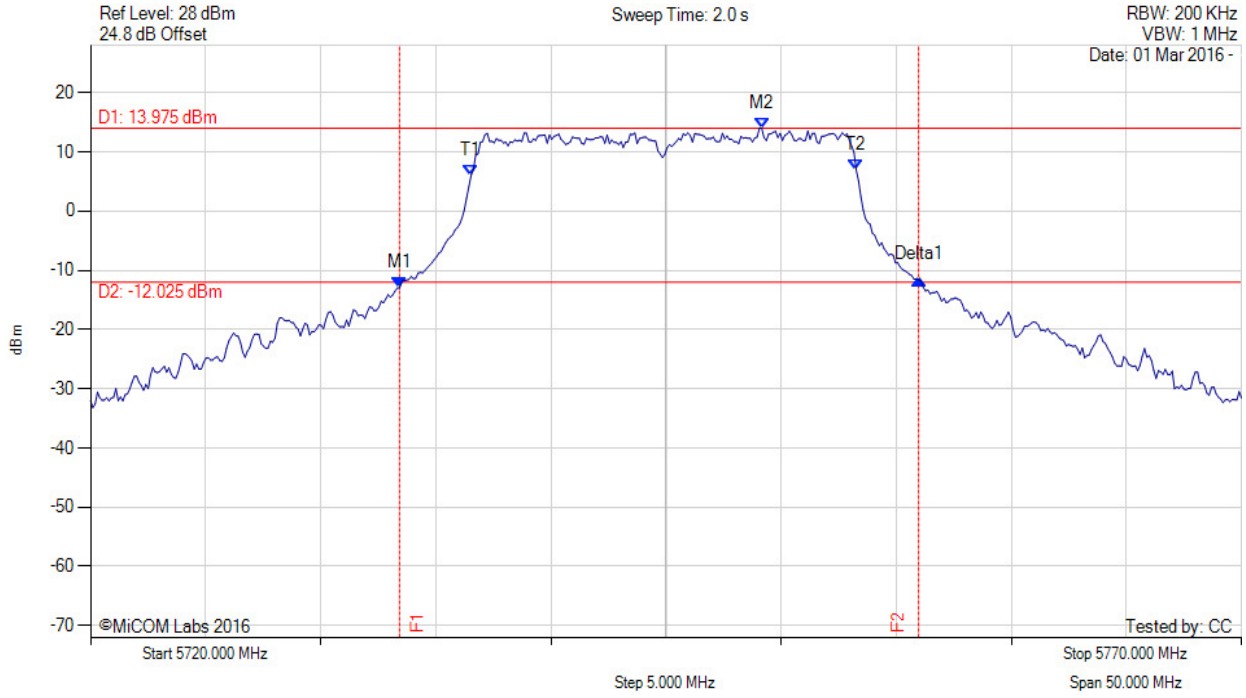
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.427 MHz : -13.027 dBm M2 : 5749.158 MHz : 13.975 dBm Delta1 : 22.545 MHz : 1.428 dB T1 : 5736.533 MHz : 5.997 dBm T2 : 5753.267 MHz : 6.936 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.545 MHz Measured 99% Bandwidth: 16.733 MHz

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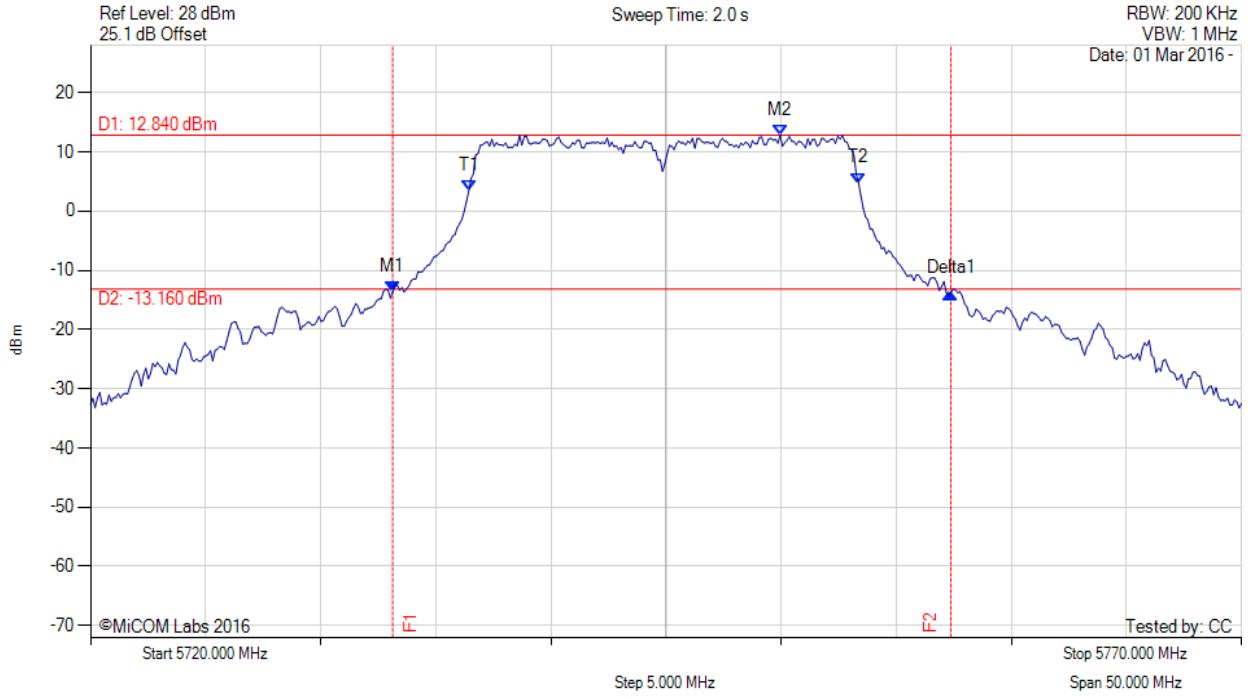
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.126 MHz : -13.684 dBm M2 : 5749.960 MHz : 12.840 dBm Delta1 : 24.248 MHz : -0.150 dB T1 : 5736.433 MHz : 3.461 dBm T2 : 5753.367 MHz : 4.728 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 24.248 MHz Measured 99% Bandwidth: 16.934 MHz

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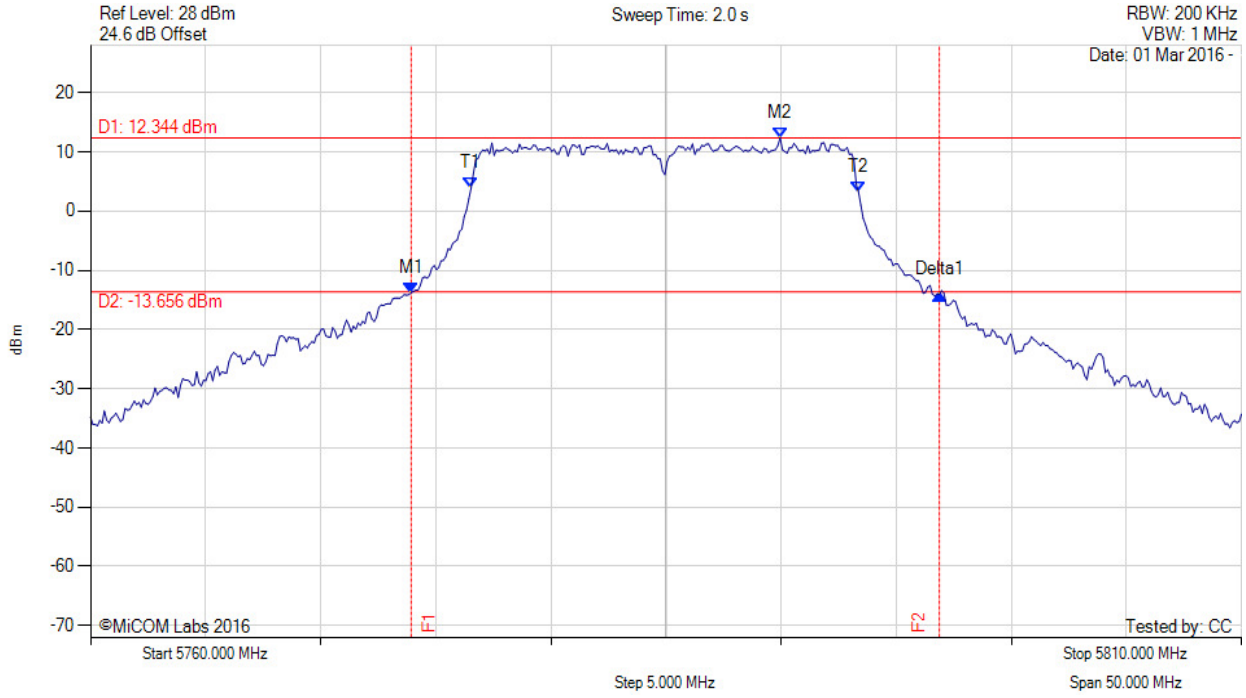
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.928 MHz : -13.785 dBm M2 : 5789.960 MHz : 12.344 dBm Delta1 : 22.946 MHz : -0.252 dB T1 : 5776.533 MHz : 3.849 dBm T2 : 5793.367 MHz : 3.162 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 22.946 MHz Measured 99% Bandwidth: 16.834 MHz

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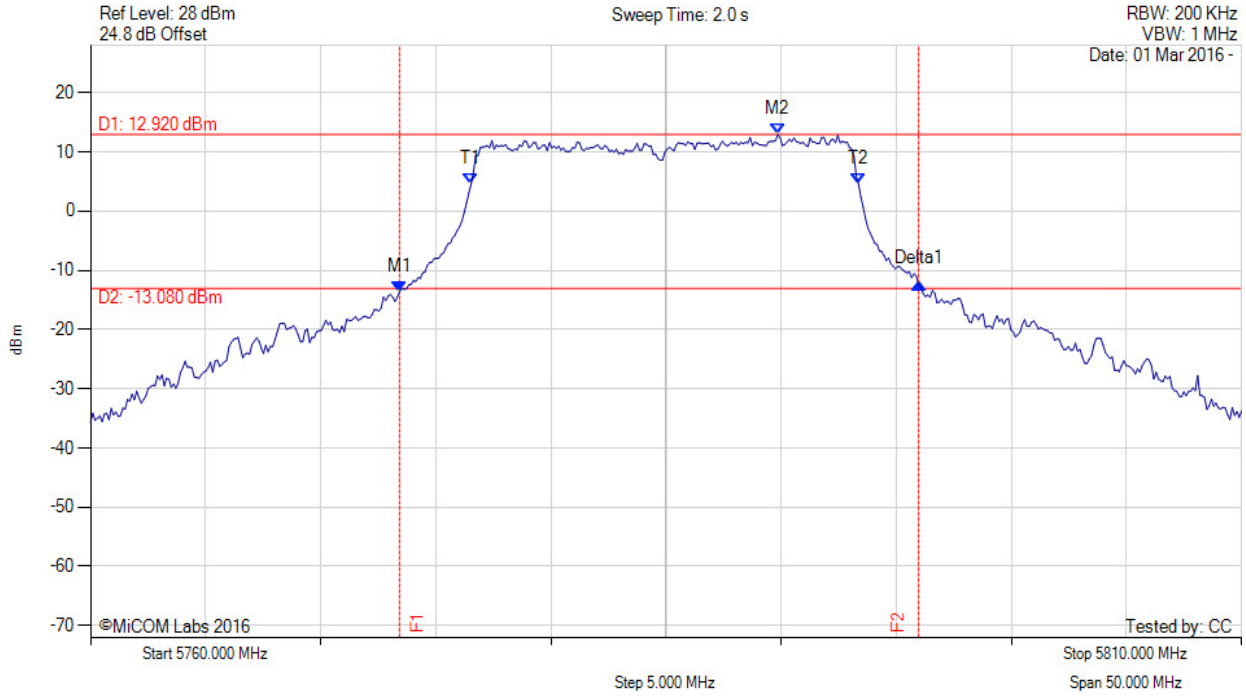
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.427 MHz : -13.627 dBm M2 : 5789.860 MHz : 12.920 dBm Delta1 : 22.545 MHz : 1.314 dB T1 : 5776.533 MHz : 4.500 dBm T2 : 5793.367 MHz : 4.520 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 22.545 MHz Measured 99% Bandwidth: 16.834 MHz

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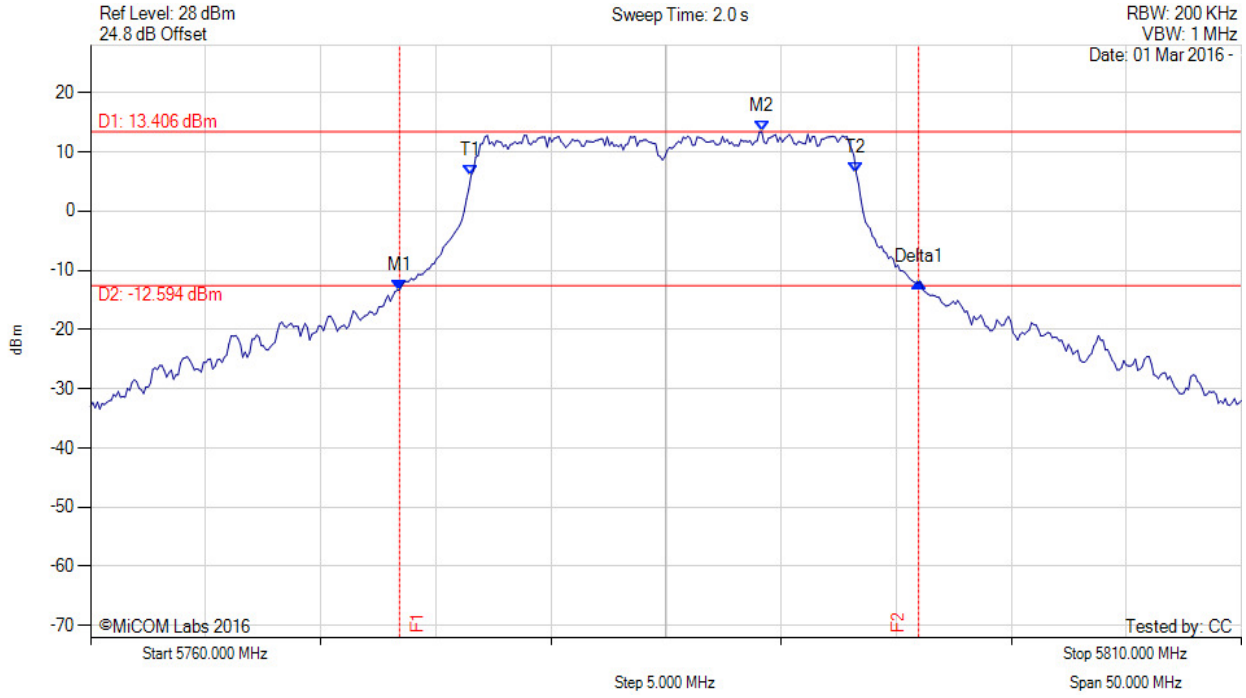
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.427 MHz : -13.303 dBm M2 : 5789.158 MHz : 13.406 dBm Delta1 : 22.545 MHz : 1.245 dB T1 : 5776.533 MHz : 6.013 dBm T2 : 5793.267 MHz : 6.396 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.545 MHz Measured 99% Bandwidth: 16.733 MHz

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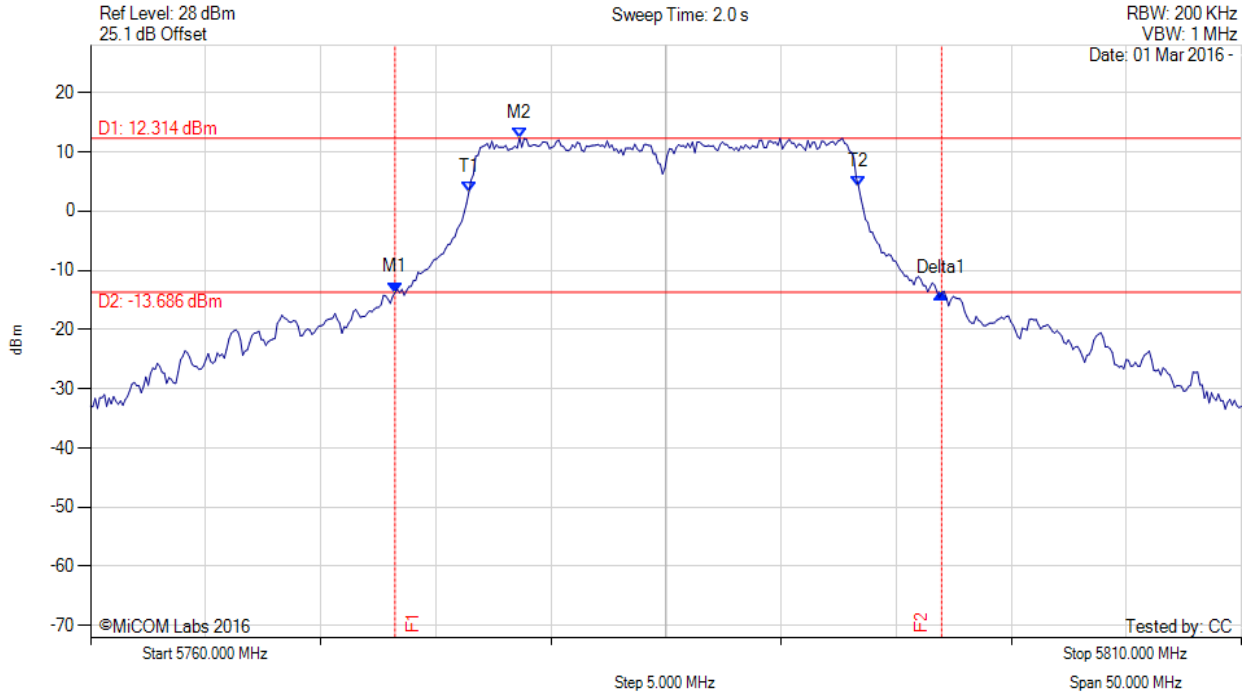
26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

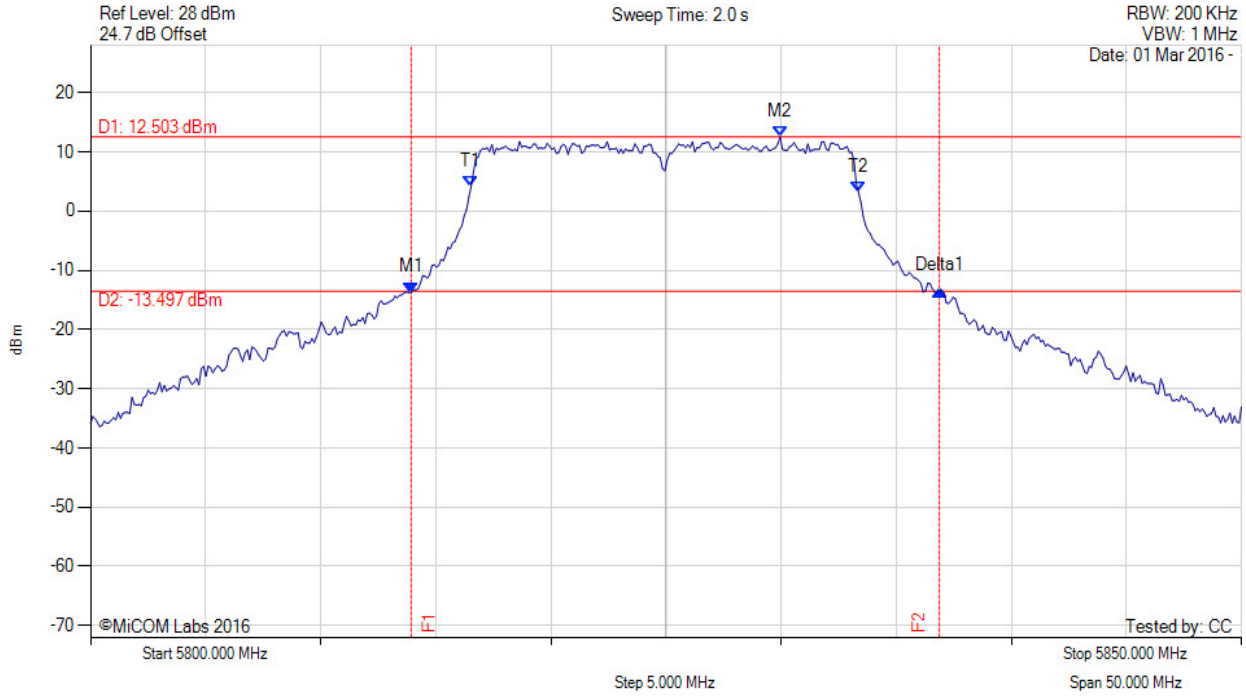


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.226 MHz : -13.759 dBm M2 : 5778.637 MHz : 12.314 dBm Delta1 : 23.747 MHz : -0.171 dB T1 : 5776.433 MHz : 3.152 dBm T2 : 5793.367 MHz : 4.146 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 16.934 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

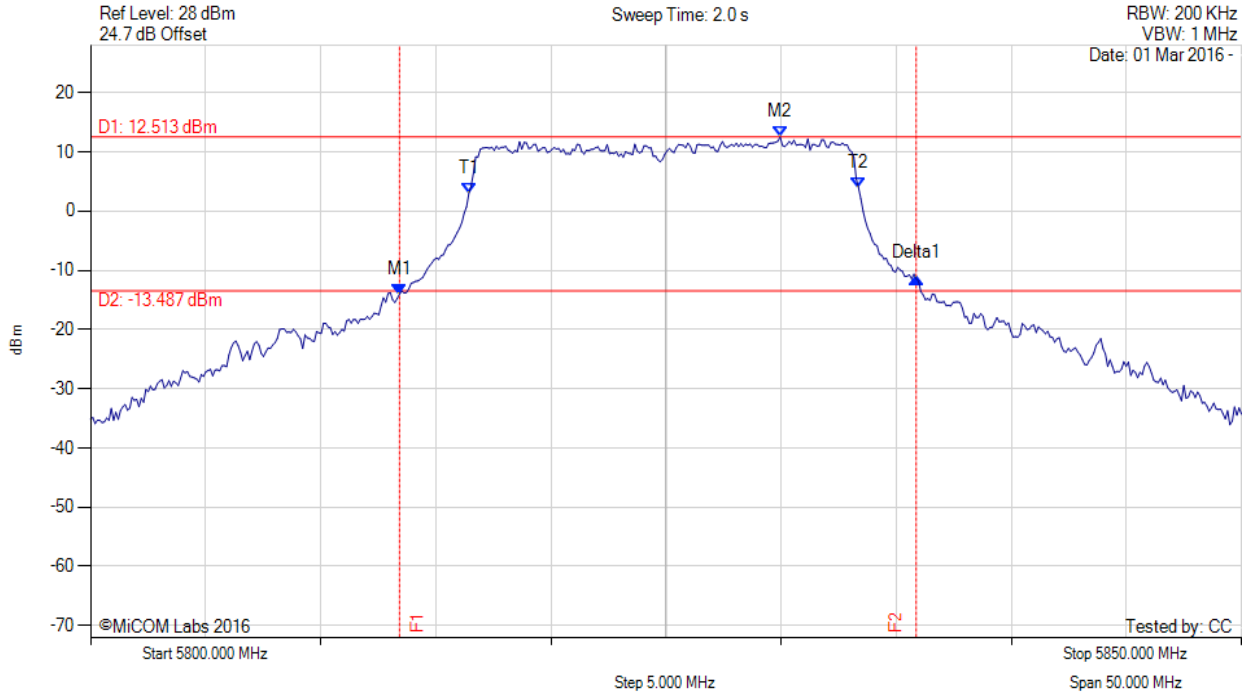


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.928 MHz : -13.751 dBm M2 : 5829.960 MHz : 12.503 dBm Delta1 : 22.946 MHz : 0.297 dB T1 : 5816.533 MHz : 4.116 dBm T2 : 5833.367 MHz : 3.101 dBm OBW : 16.834 MHz	Measured 26 dB Bandwidth: 22.946 MHz Measured 99% Bandwidth: 16.834 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

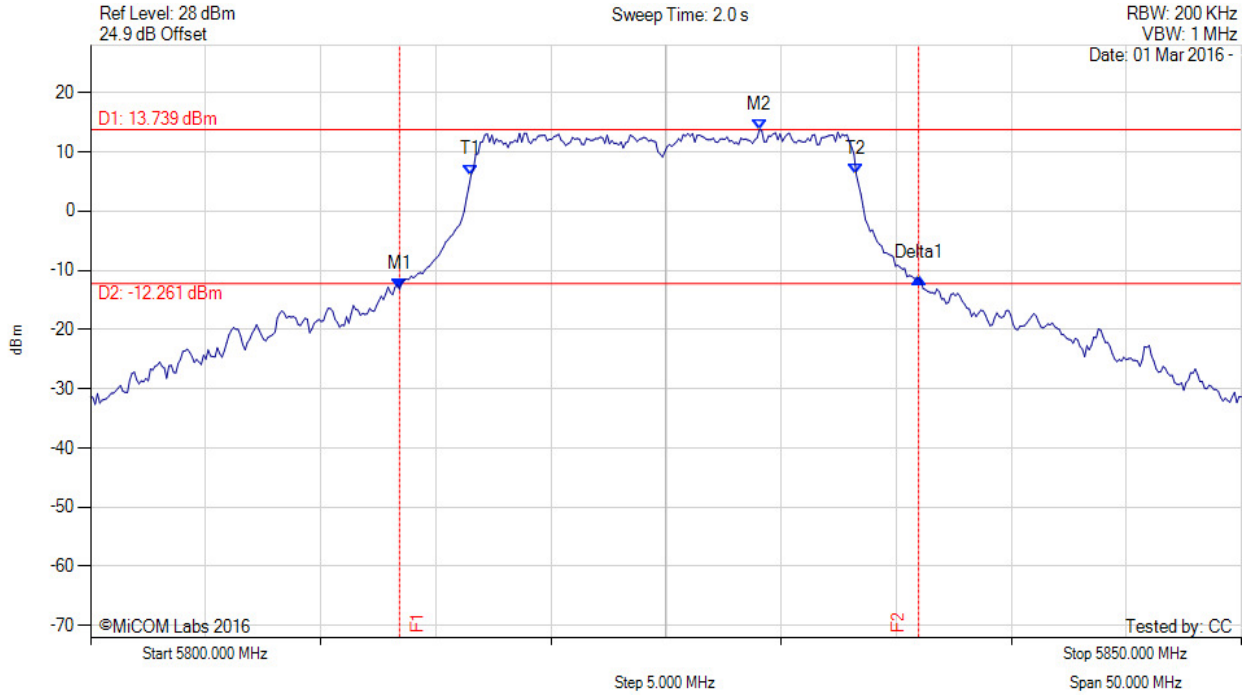


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.427 MHz : -13.999 dBm M2 : 5829.960 MHz : 12.513 dBm Delta1 : 22.445 MHz : 2.624 dB T1 : 5816.433 MHz : 2.922 dBm T2 : 5833.367 MHz : 3.898 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 22.445 MHz Measured 99% Bandwidth: 16.934 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

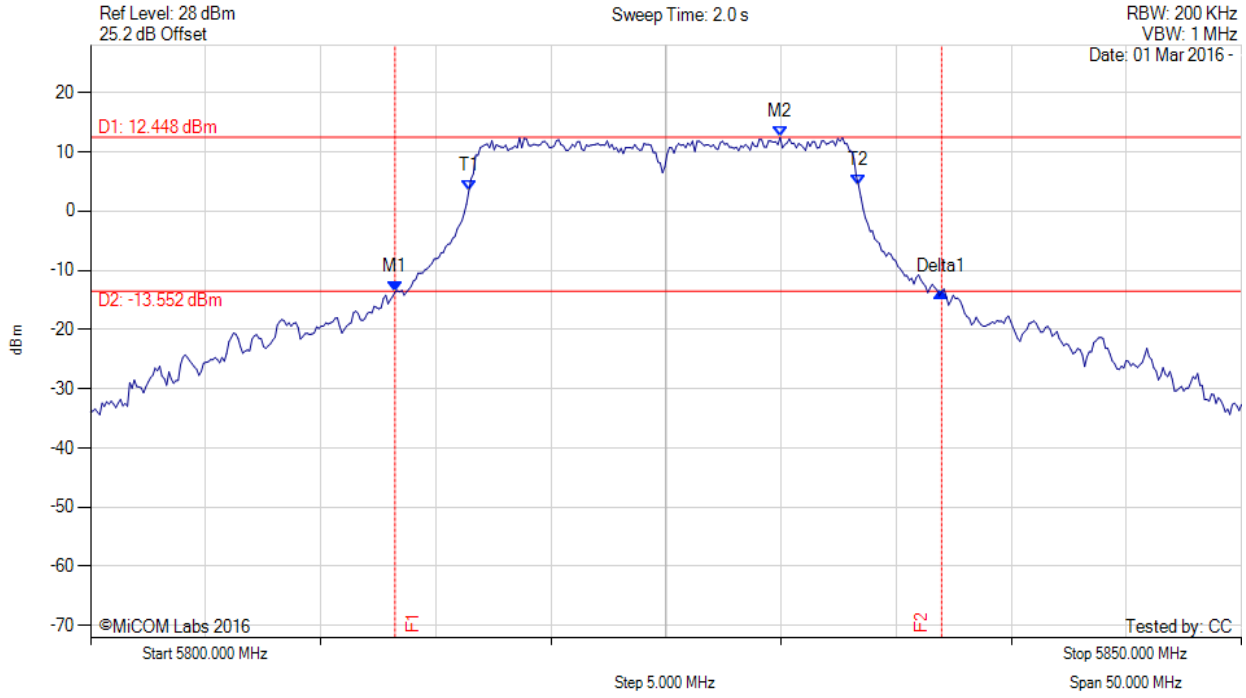


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.427 MHz : -13.240 dBm M2 : 5829.058 MHz : 13.739 dBm Delta1 : 22.545 MHz : 1.950 dB T1 : 5816.533 MHz : 6.129 dBm T2 : 5833.267 MHz : 6.217 dBm OBW : 16.733 MHz	Measured 26 dB Bandwidth: 22.545 MHz Measured 99% Bandwidth: 16.733 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

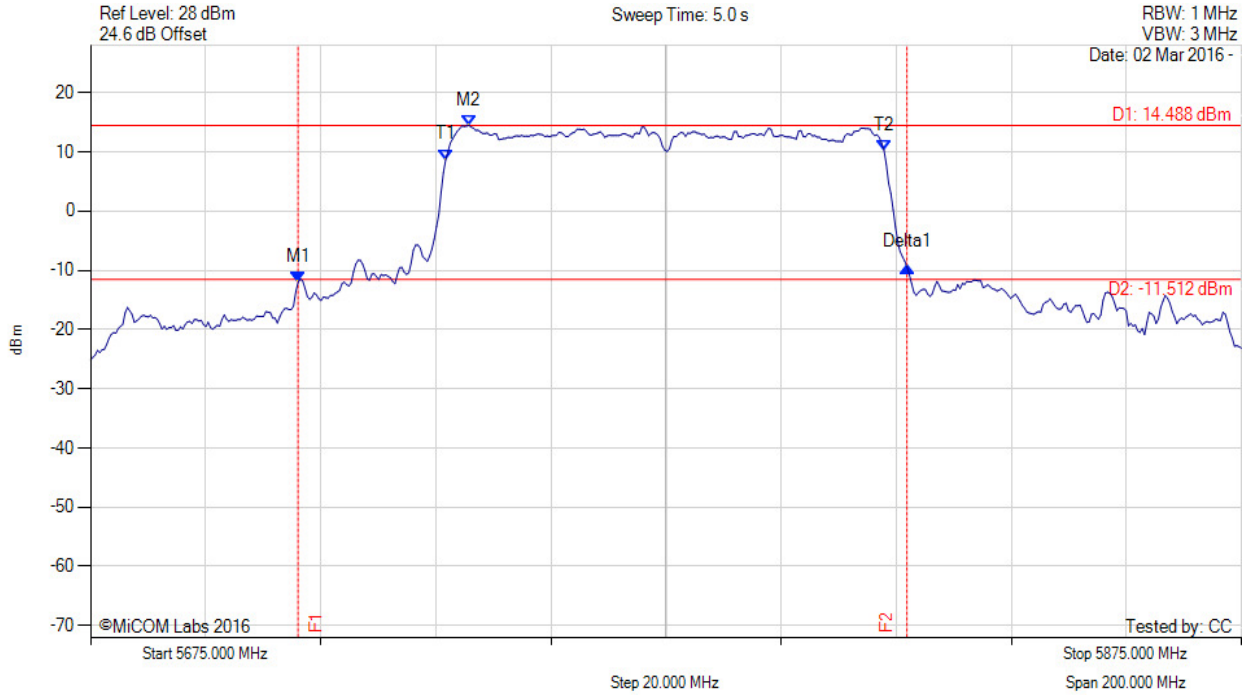


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.226 MHz : -13.690 dBm M2 : 5829.960 MHz : 12.448 dBm Delta1 : 23.747 MHz : 0.014 dB T1 : 5816.433 MHz : 3.375 dBm T2 : 5833.367 MHz : 4.315 dBm OBW : 16.934 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 16.934 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

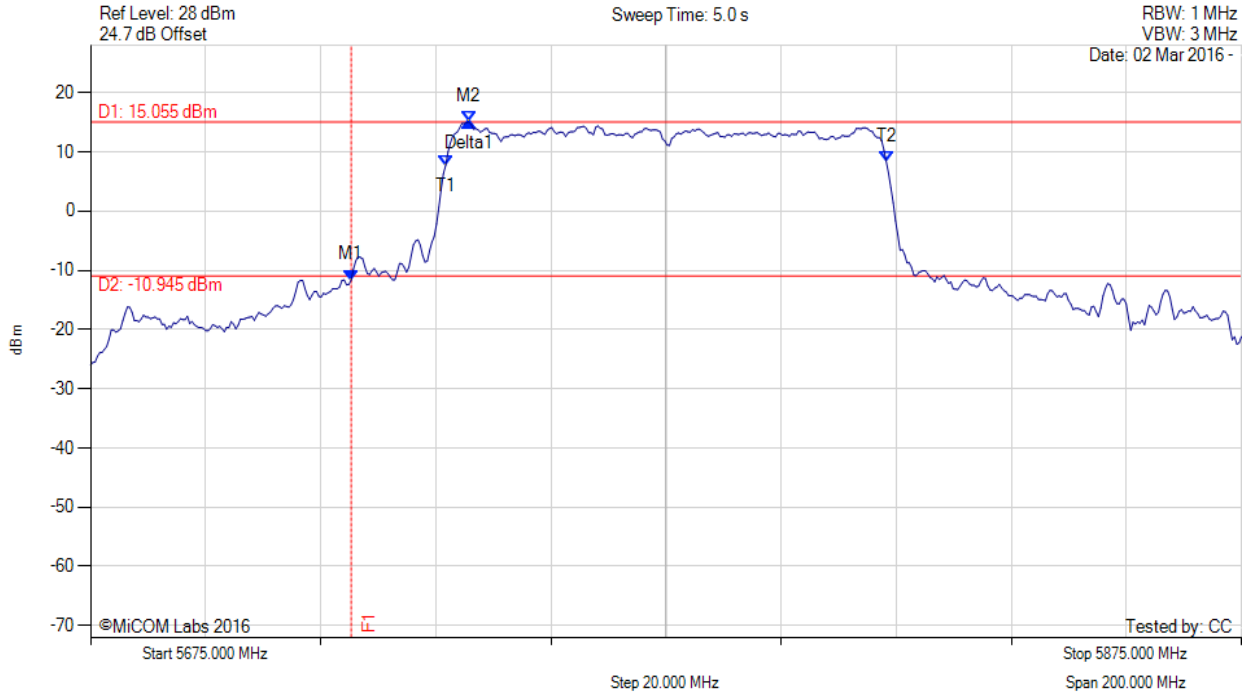


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5711.072 MHz : -12.042 dBm M2 : 5740.731 MHz : 14.488 dBm Delta1 : 105.812 MHz : 2.644 dB T1 : 5736.723 MHz : 8.681 dBm T2 : 5812.876 MHz : 10.306 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 105.812 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

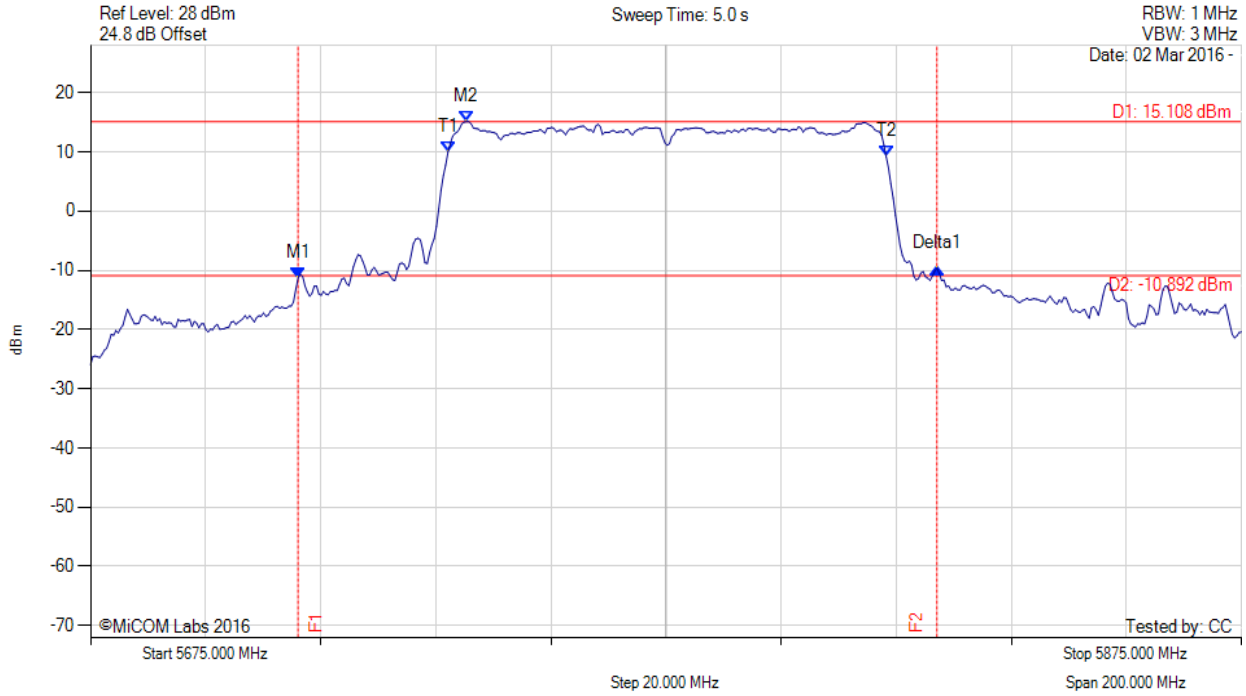


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5720.291 MHz : -11.636 dBm M2 : 5740.731 MHz : 15.055 dBm Delta1 : 20.441 MHz : 26.691 dB T1 : 5736.723 MHz : 7.746 dBm T2 : 5813.277 MHz : 8.389 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 20.441 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

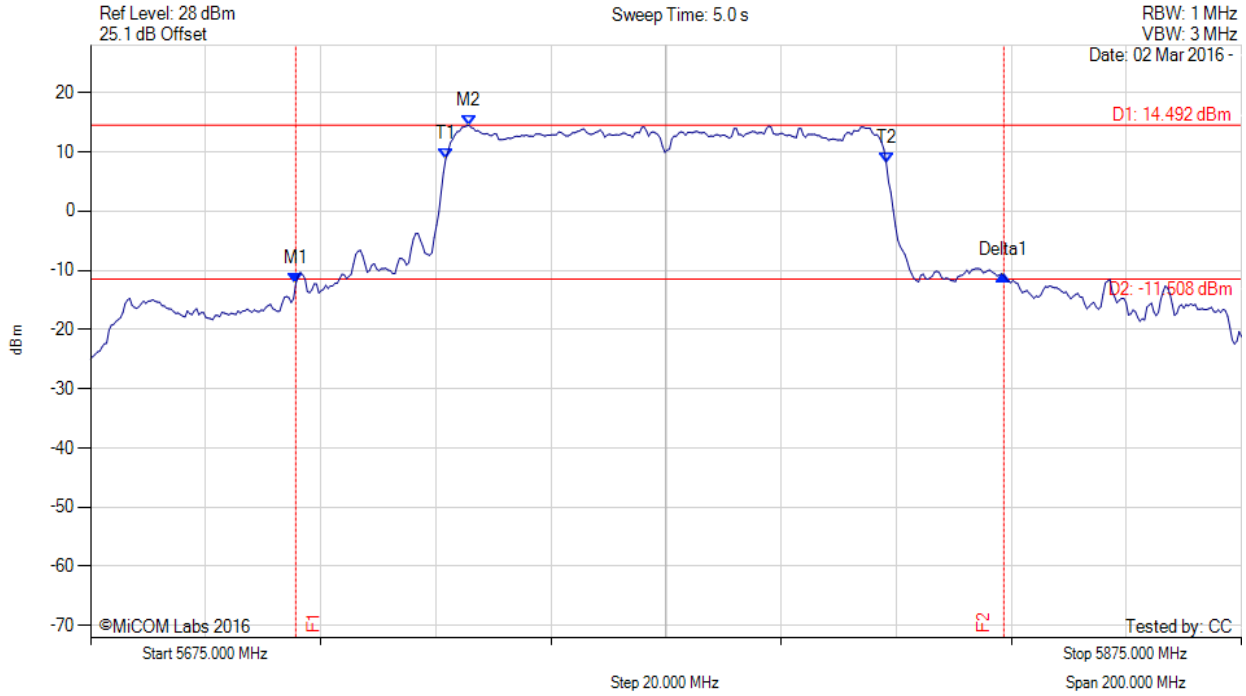


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5711.072 MHz : -11.308 dBm M2 : 5740.331 MHz : 15.108 dBm Delta1 : 111.022 MHz : 1.694 dB T1 : 5737.124 MHz : 10.028 dBm T2 : 5813.277 MHz : 9.176 dBm OBW : 76.152 MHz	Measured 26 dB Bandwidth: 111.022 MHz Measured 99% Bandwidth: 76.152 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

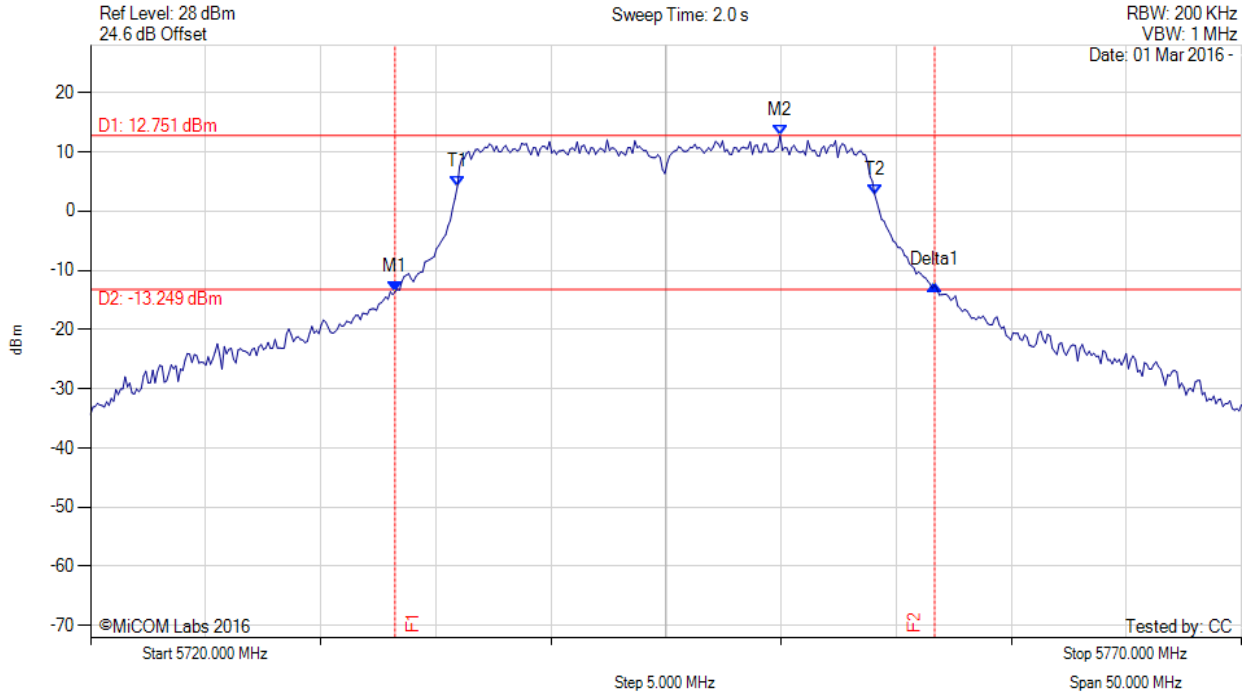


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5710.671 MHz : -12.252 dBm M2 : 5740.731 MHz : 14.492 dBm Delta1 : 123.046 MHz : 1.405 dB T1 : 5736.723 MHz : 8.787 dBm T2 : 5813.277 MHz : 8.155 dBm OBW : 76.553 MHz	Measured 26 dB Bandwidth: 123.046 MHz Measured 99% Bandwidth: 76.553 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

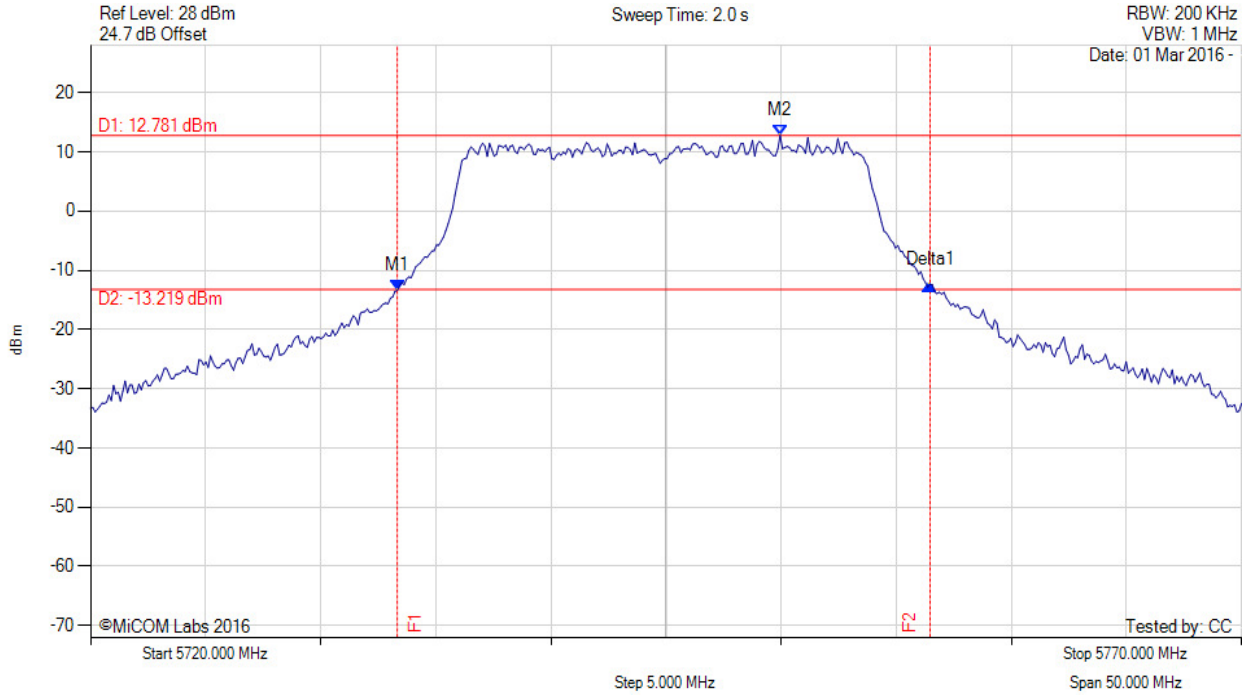


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.226 MHz : -13.655 dBm M2 : 5749.960 MHz : 12.751 dBm Delta1 : 23.447 MHz : 1.153 dB T1 : 5735.932 MHz : 4.079 dBm T2 : 5754.068 MHz : 2.771 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.447 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

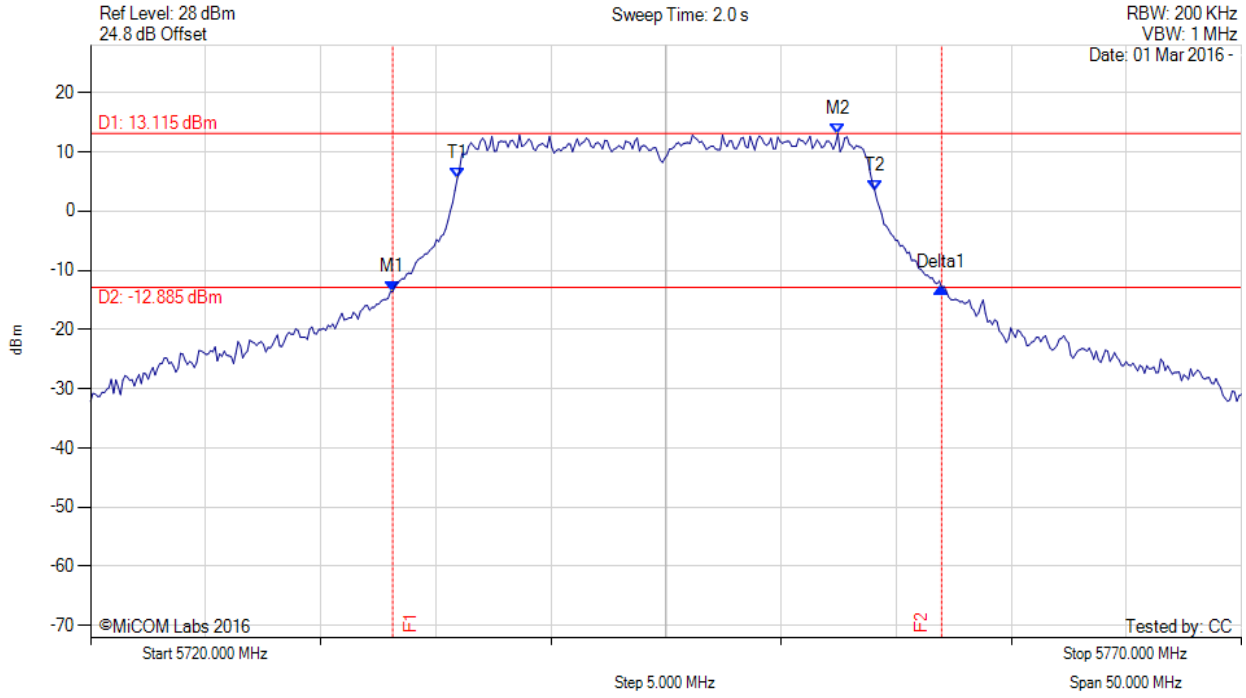


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.327 MHz : -13.377 dBm M2 : 5749.960 MHz : 12.781 dBm Delta1 : 23.146 MHz : 0.954 dB T1 : 0 Hz : 500.000 dBm T2 : 0 Hz : 500.000 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.146 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

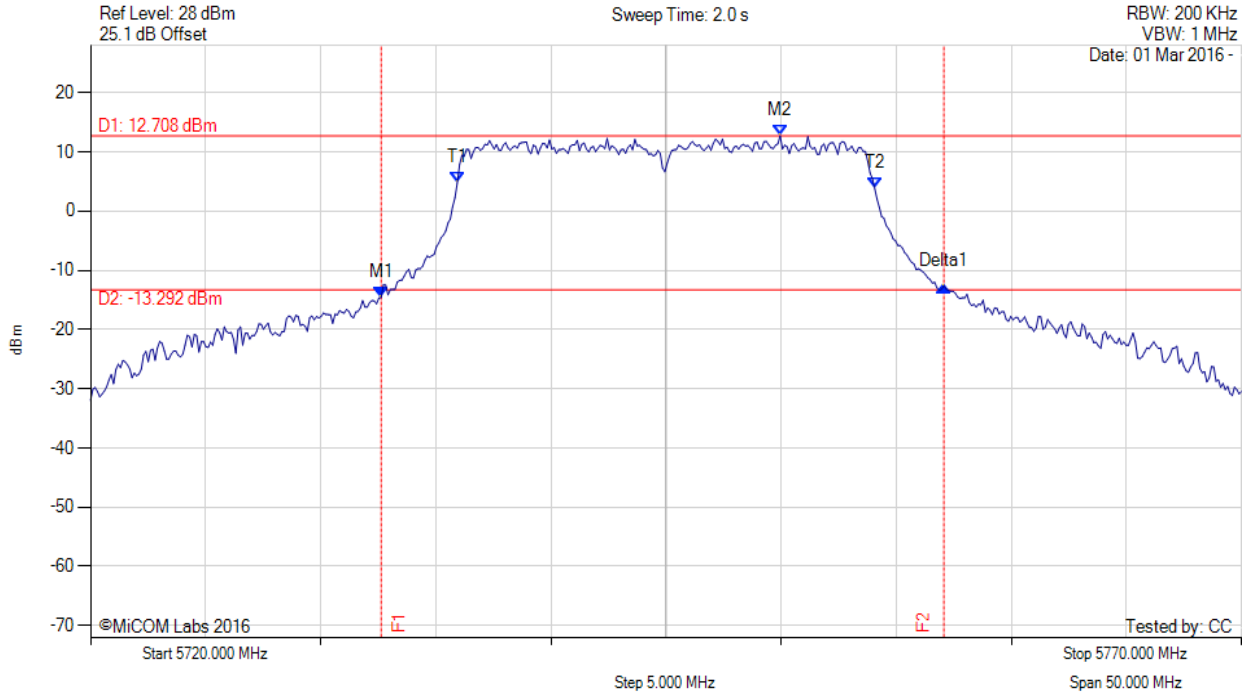


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.126 MHz : -13.584 dBm M2 : 5752.465 MHz : 13.115 dBm Delta1 : 23.848 MHz : 0.694 dB T1 : 5735.932 MHz : 5.486 dBm T2 : 5754.068 MHz : 3.499 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

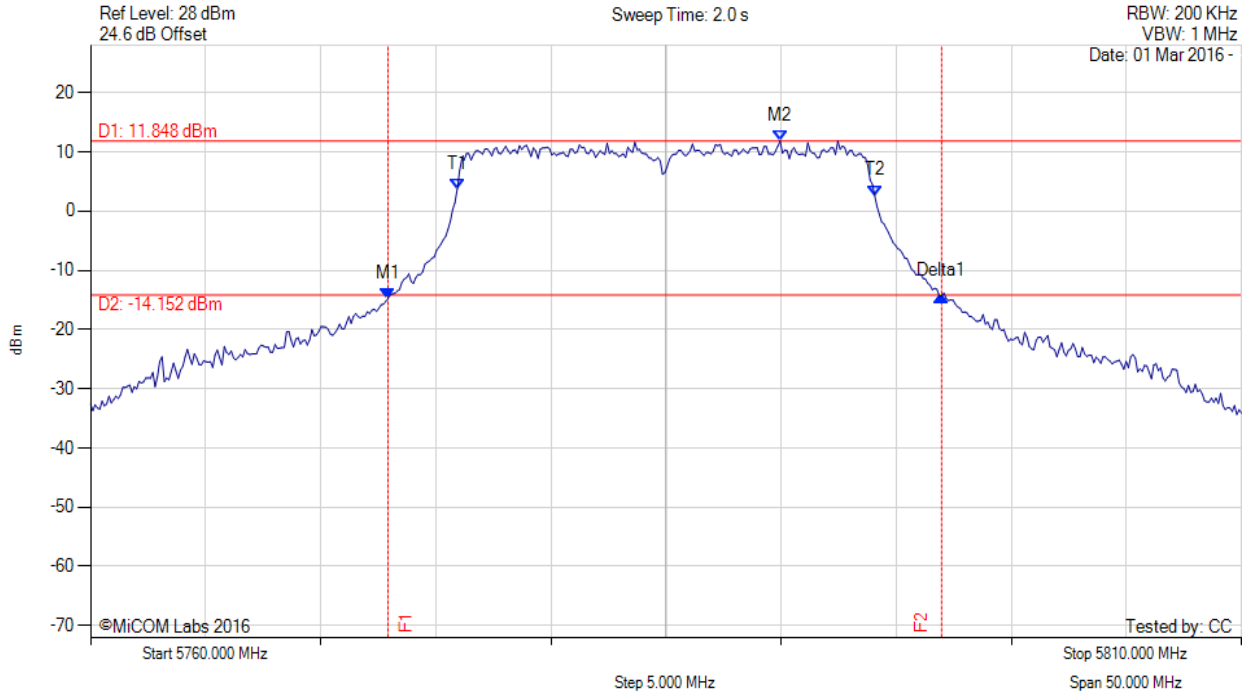


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5732.625 MHz : -14.589 dBm M2 : 5749.960 MHz : 12.708 dBm Delta1 : 24.449 MHz : 1.973 dB T1 : 5735.932 MHz : 4.769 dBm T2 : 5754.068 MHz : 3.837 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 24.449 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5772.926 MHz : -14.747 dBm M2 : 5789.960 MHz : 11.848 dBm Delta1 : 24.048 MHz : 0.368 dB T1 : 5775.932 MHz : 3.760 dBm T2 : 5794.068 MHz : 2.605 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 24.048 MHz Measured 99% Bandwidth: 18.136 MHz

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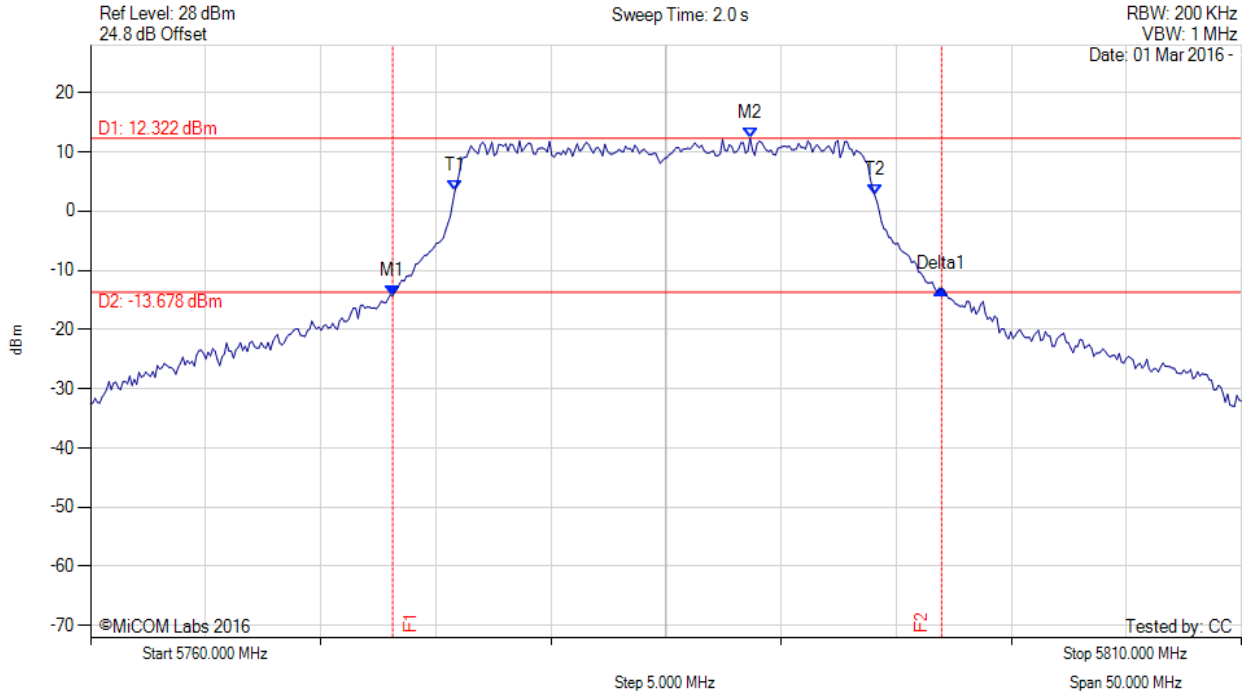
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

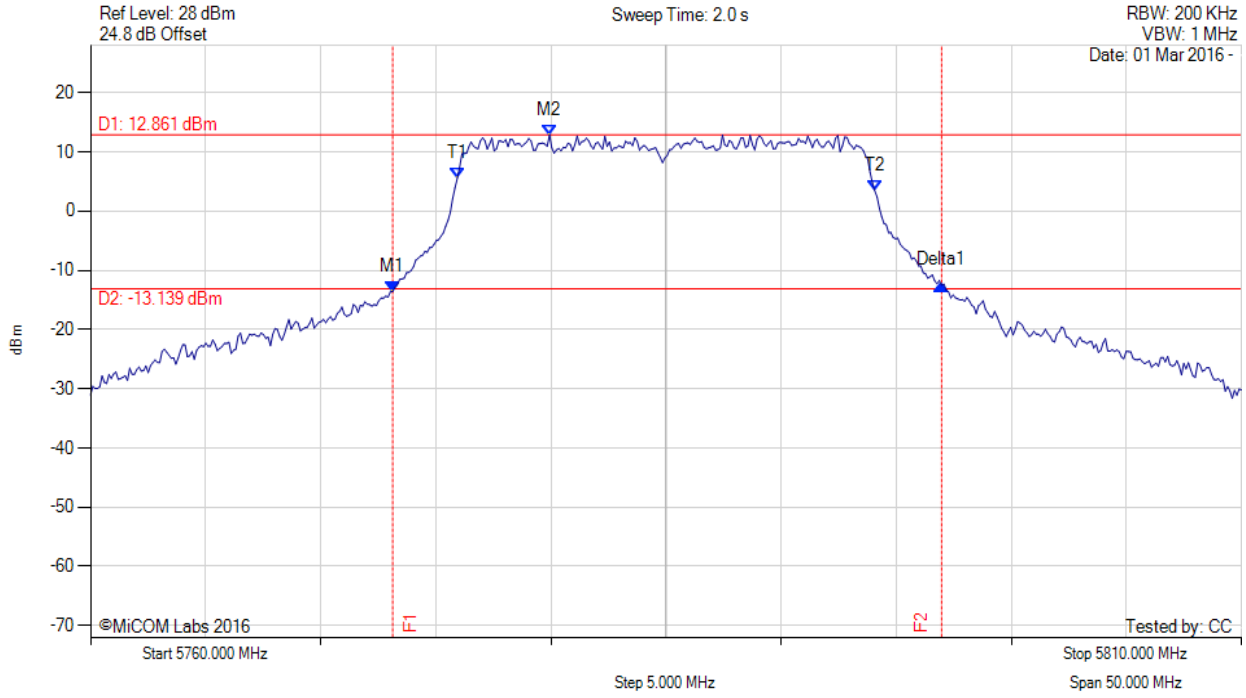


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.126 MHz : -14.278 dBm M2 : 5788.657 MHz : 12.322 dBm Delta1 : 23.848 MHz : 1.218 dB T1 : 5775.832 MHz : 3.428 dBm T2 : 5794.068 MHz : 2.688 dBm OBW : 18.236 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.236 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

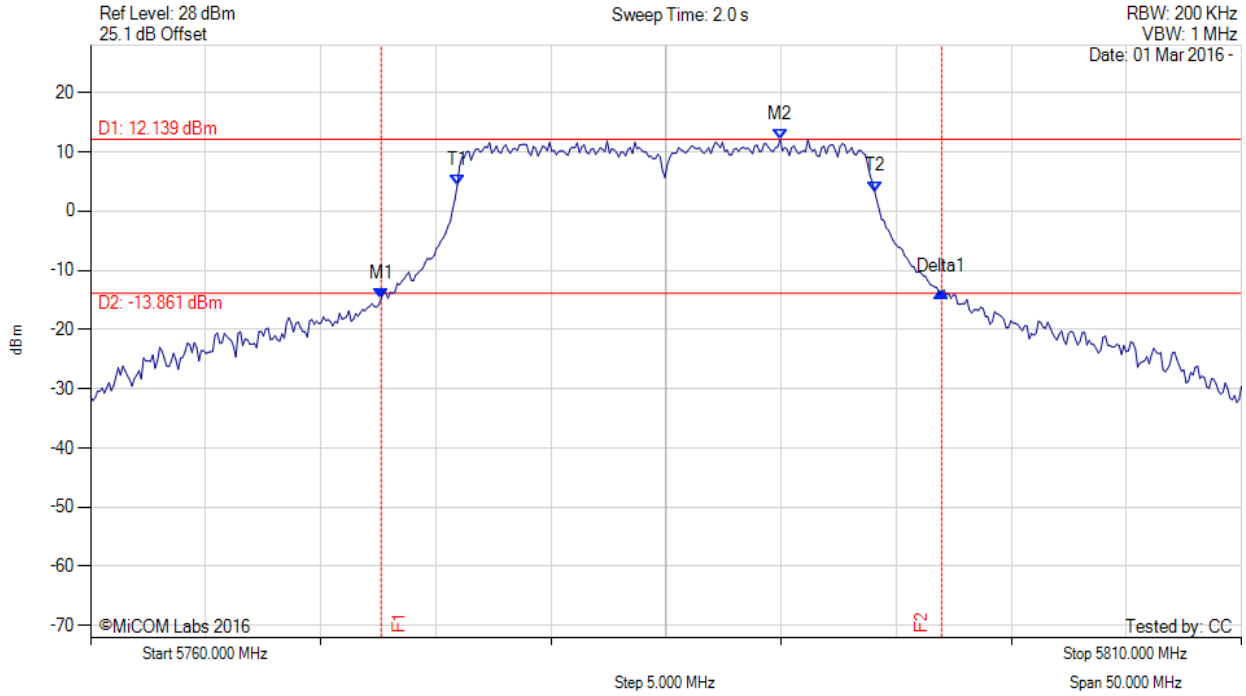


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.126 MHz : -13.568 dBm M2 : 5779.940 MHz : 12.861 dBm Delta1 : 23.848 MHz : 1.074 dB T1 : 5775.932 MHz : 5.539 dBm T2 : 5794.068 MHz : 3.459 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

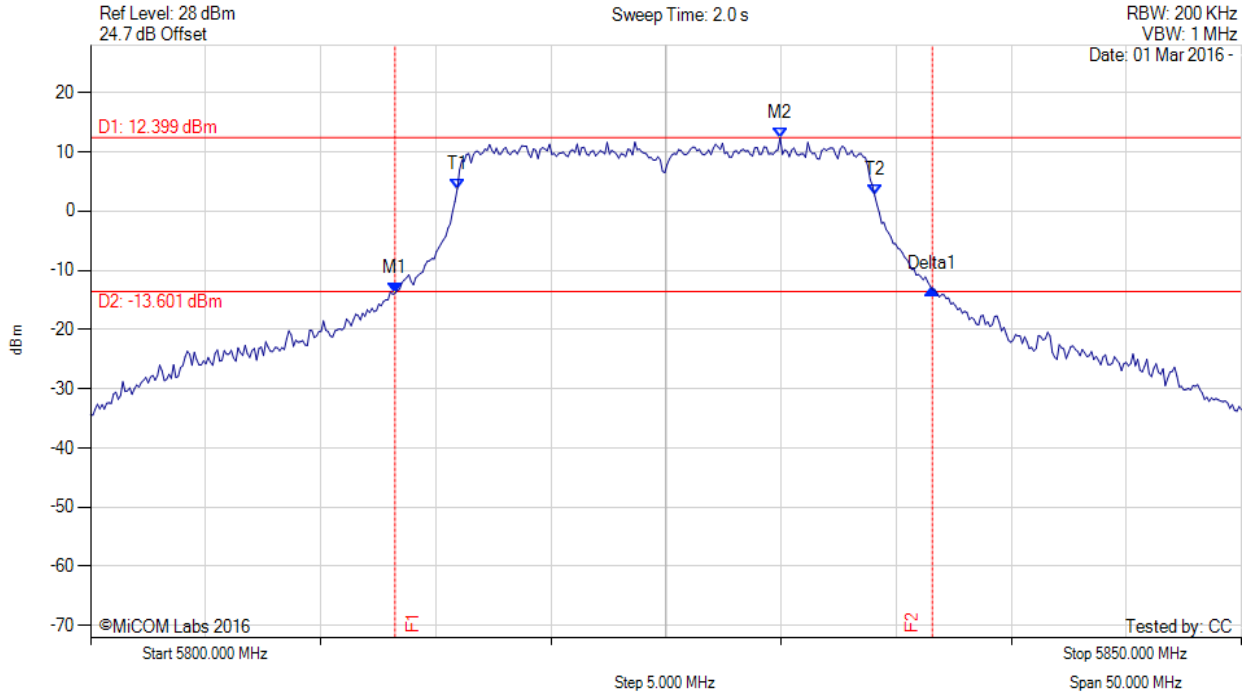


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5772.625 MHz : -14.778 dBm M2 : 5789.960 MHz : 12.139 dBm Delta1 : 24.349 MHz : 1.068 dB T1 : 5775.932 MHz : 4.352 dBm T2 : 5794.068 MHz : 3.318 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 24.349 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

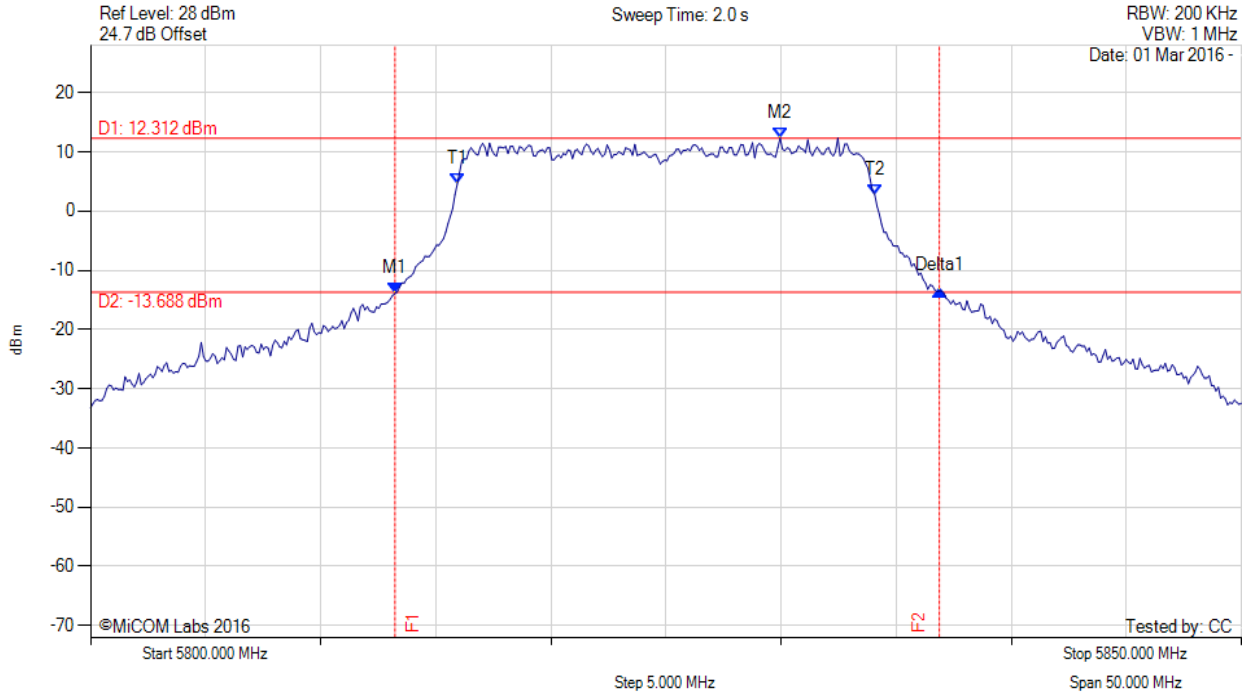


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.226 MHz : -13.895 dBm M2 : 5829.960 MHz : 12.399 dBm Delta1 : 23.347 MHz : 0.665 dB T1 : 5815.932 MHz : 3.764 dBm T2 : 5834.068 MHz : 2.633 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.347 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

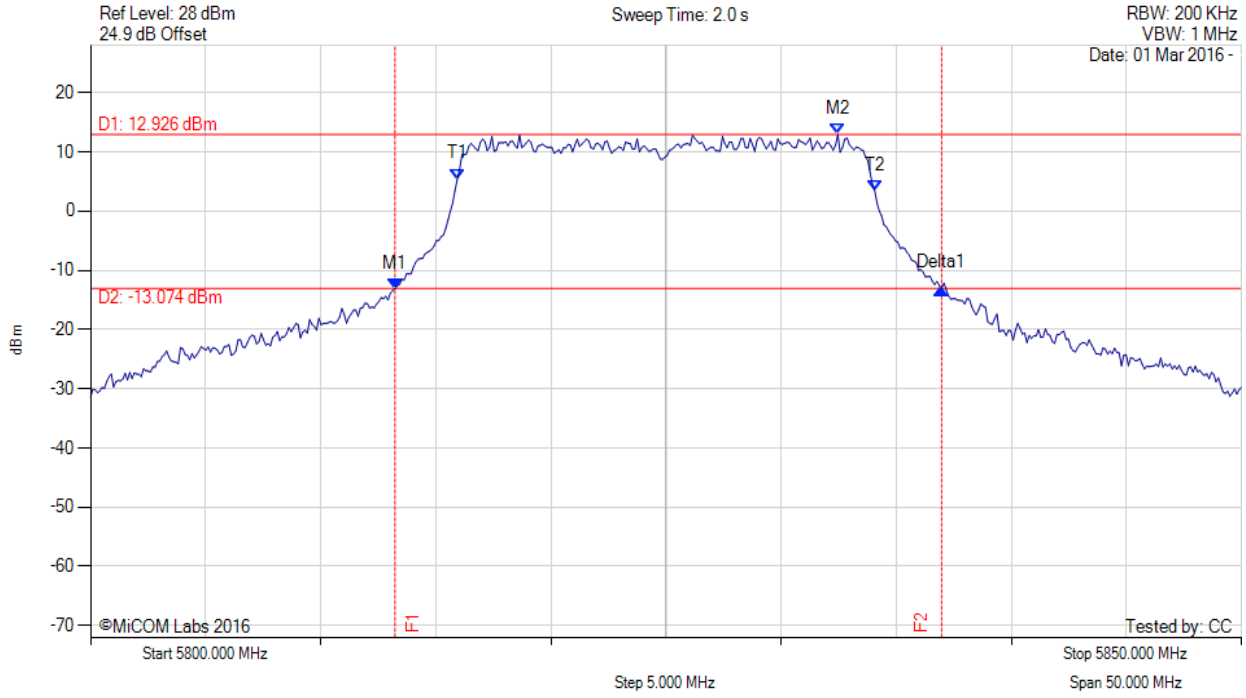


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.226 MHz : -13.940 dBm M2 : 5829.960 MHz : 12.312 dBm Delta1 : 23.647 MHz : 0.472 dB T1 : 5815.932 MHz : 4.569 dBm T2 : 5834.068 MHz : 2.812 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.647 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

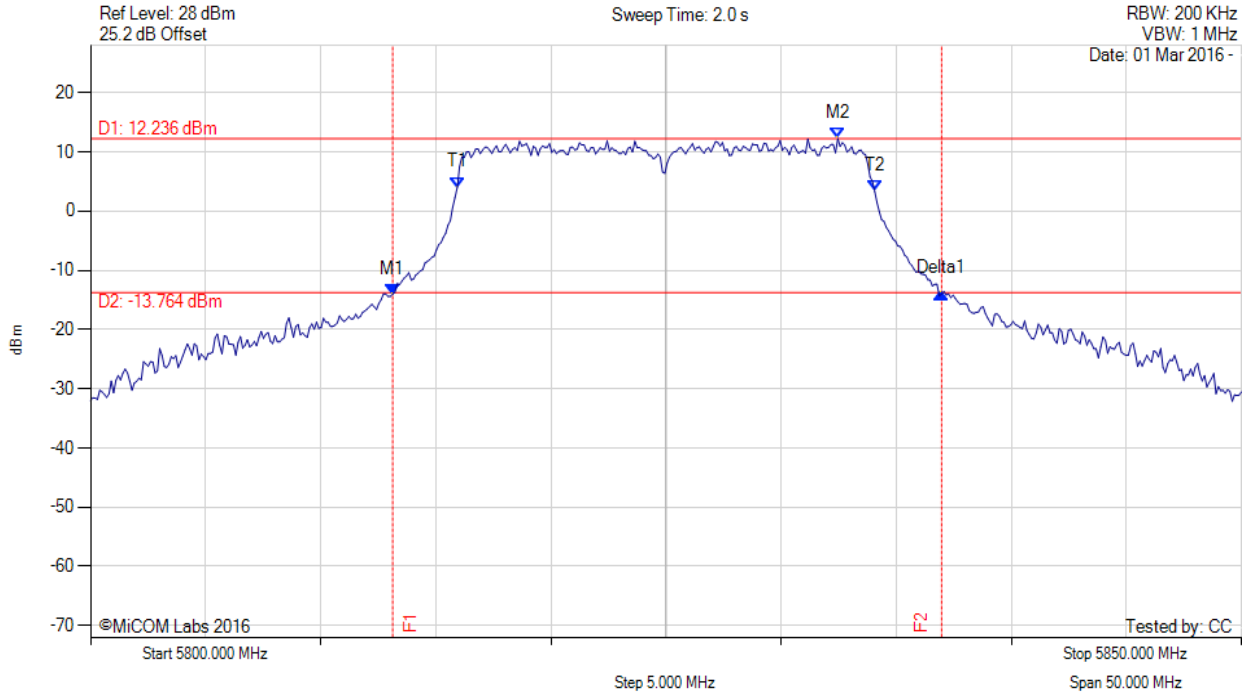


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.226 MHz : -13.110 dBm M2 : 5832.465 MHz : 12.926 dBm Delta1 : 23.747 MHz : 0.059 dB T1 : 5815.932 MHz : 5.413 dBm T2 : 5834.068 MHz : 3.422 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.747 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

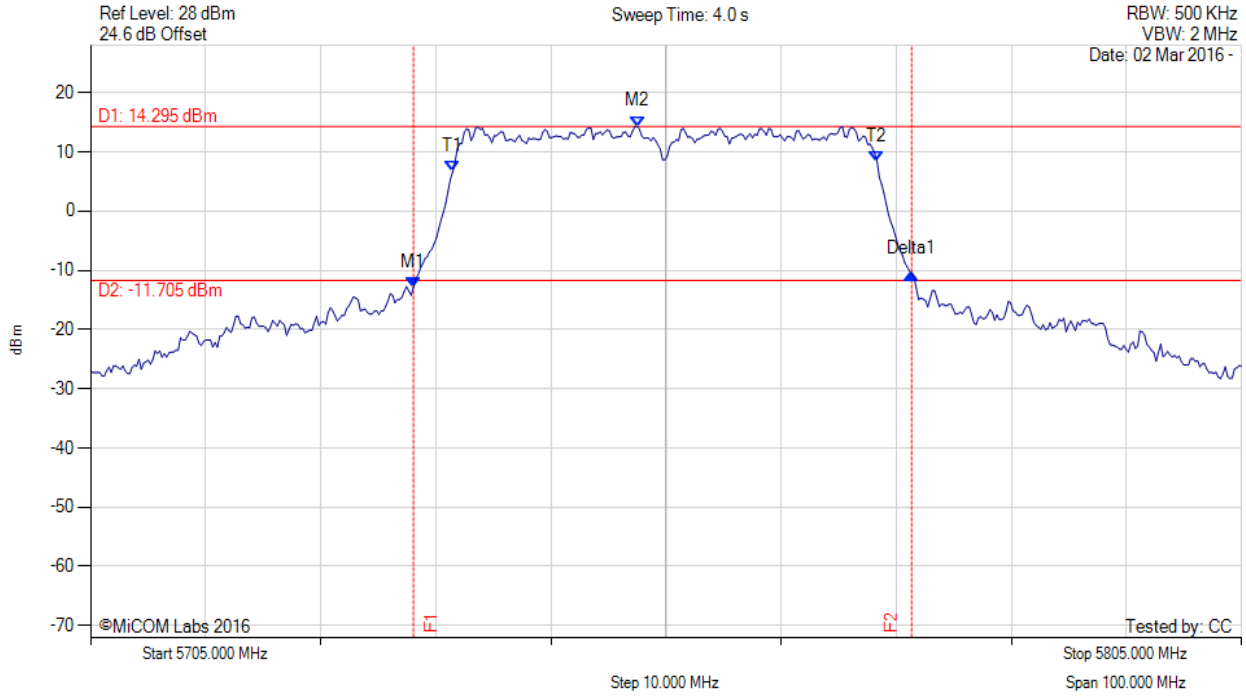


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5813.126 MHz : -14.013 dBm M2 : 5832.465 MHz : 12.236 dBm Delta1 : 23.848 MHz : 0.063 dB T1 : 5815.932 MHz : 4.018 dBm T2 : 5834.068 MHz : 3.341 dBm OBW : 18.136 MHz	Measured 26 dB Bandwidth: 23.848 MHz Measured 99% Bandwidth: 18.136 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

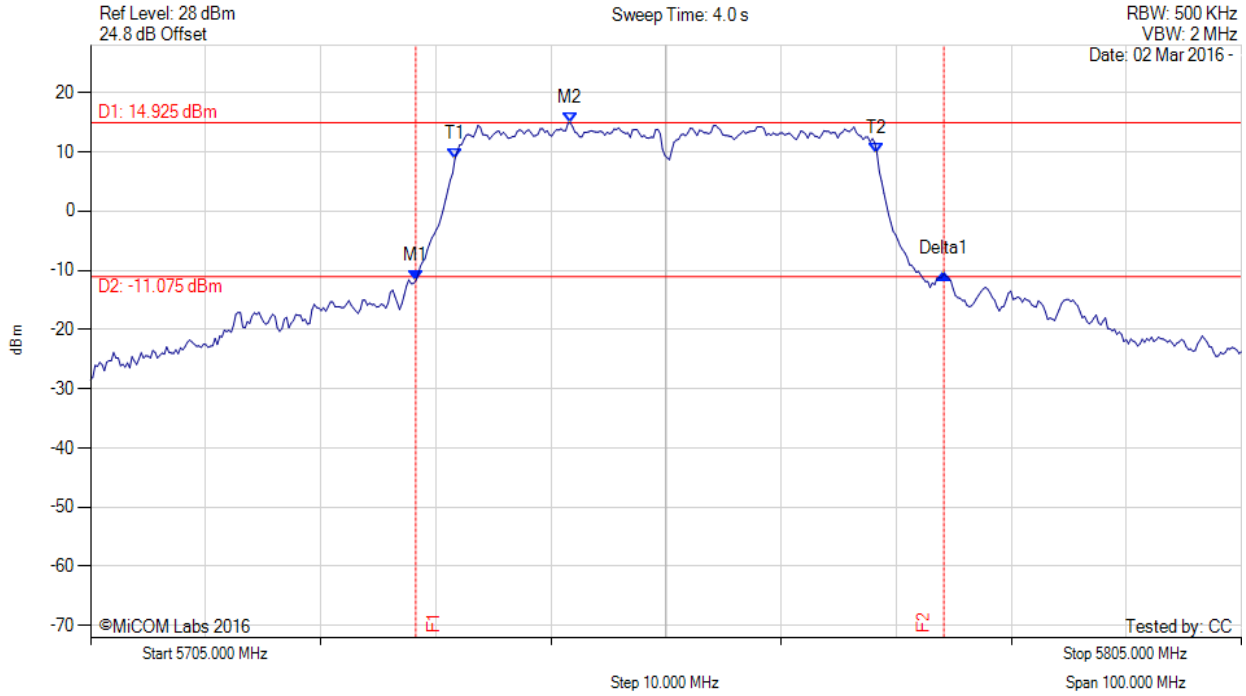


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.056 MHz : -12.862 dBm M2 : 5752.495 MHz : 14.295 dBm Delta1 : 43.287 MHz : 2.349 dB T1 : 5736.463 MHz : 6.617 dBm T2 : 5773.337 MHz : 8.380 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.287 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

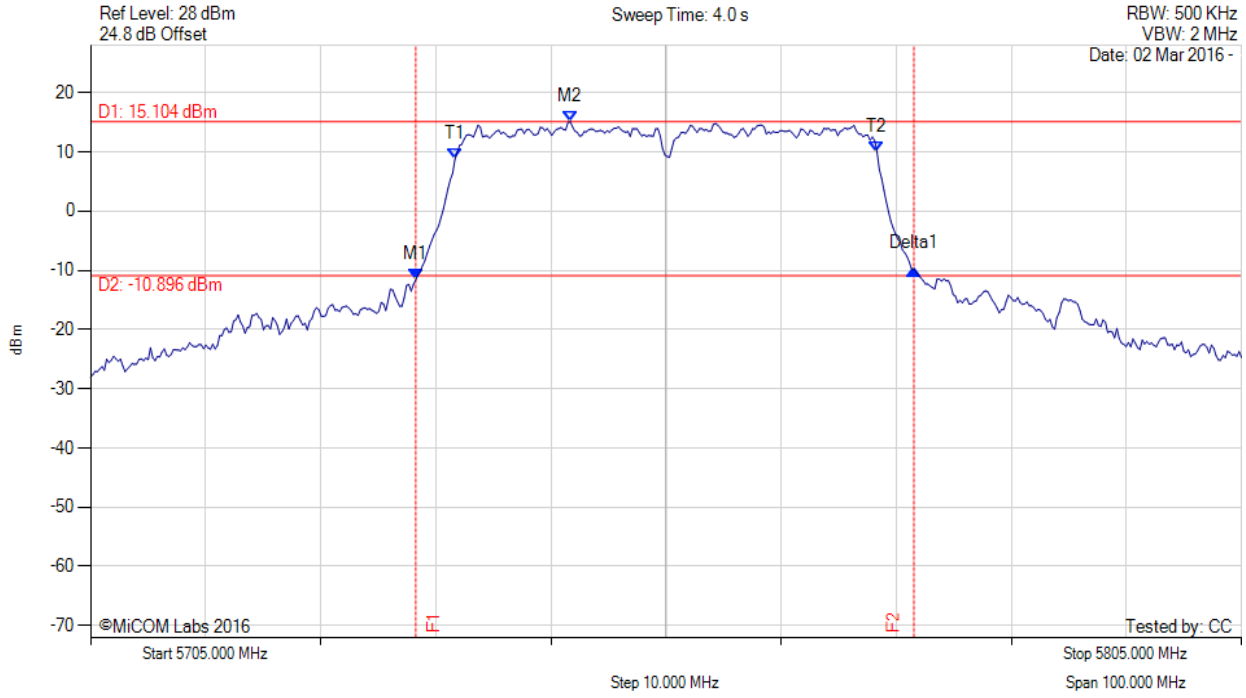


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.257 MHz : -11.807 dBm M2 : 5746.683 MHz : 14.925 dBm Delta1 : 45.892 MHz : 1.192 dB T1 : 5736.663 MHz : 8.818 dBm T2 : 5773.337 MHz : 9.654 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 45.892 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

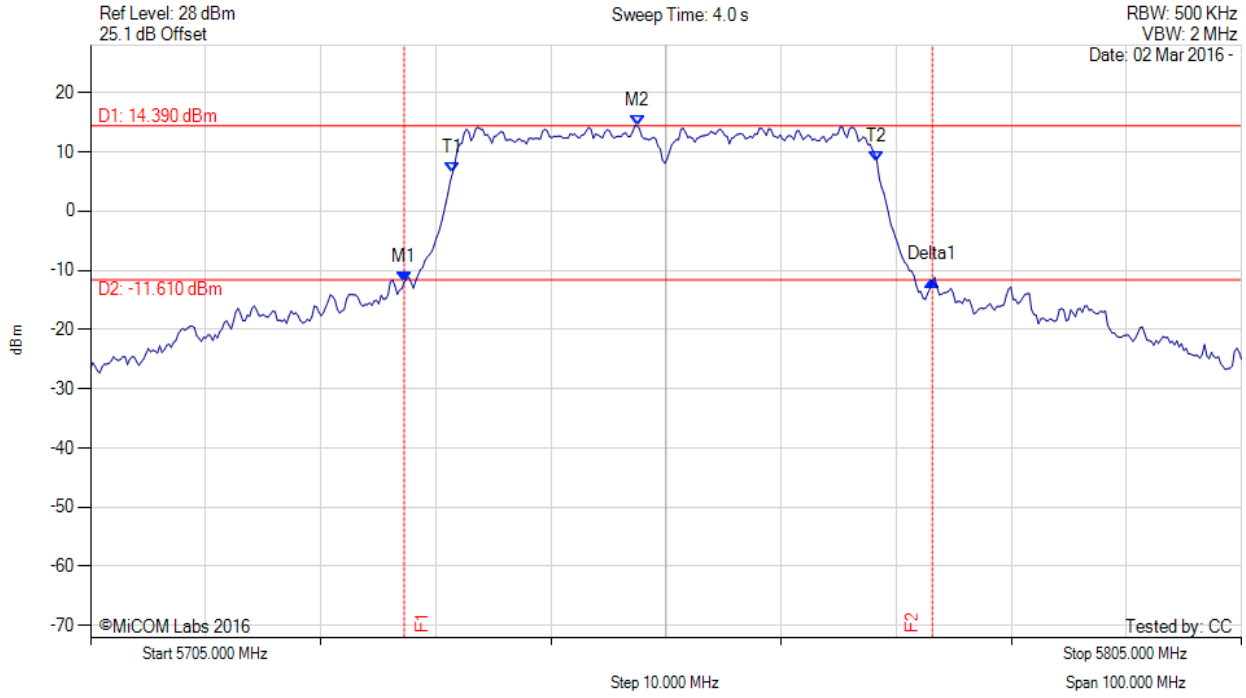


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5733.257 MHz : -11.605 dBm M2 : 5746.683 MHz : 15.104 dBm Delta1 : 43.287 MHz : 1.824 dB T1 : 5736.663 MHz : 8.744 dBm T2 : 5773.337 MHz : 9.922 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 43.287 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

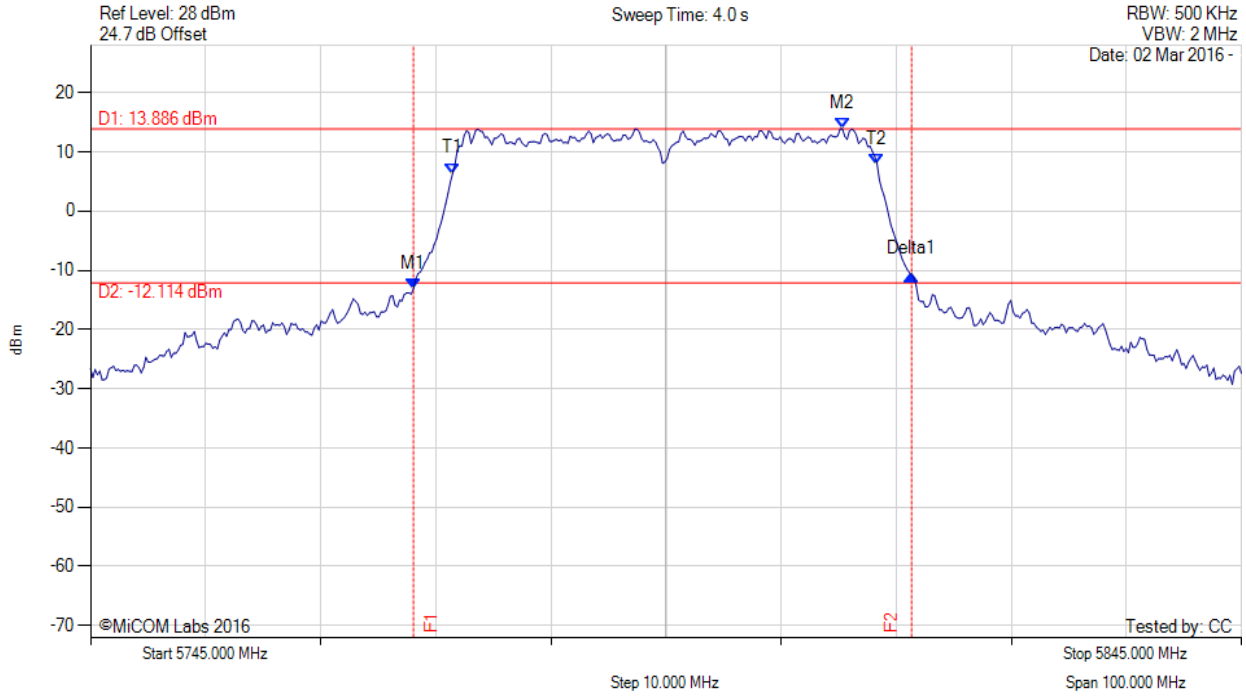


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5732.255 MHz : -11.965 dBm M2 : 5752.495 MHz : 14.390 dBm Delta1 : 45.892 MHz : 0.323 dB T1 : 5736.463 MHz : 6.471 dBm T2 : 5773.337 MHz : 8.262 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 45.892 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

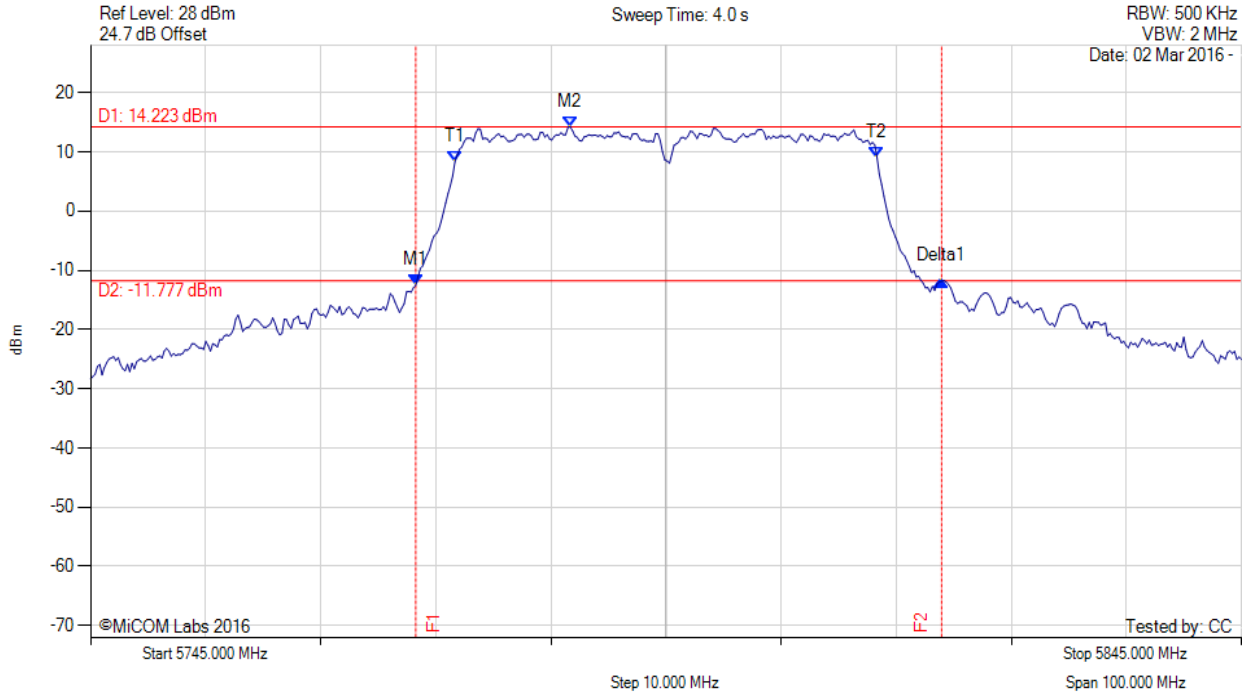


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.056 MHz : -13.143 dBm M2 : 5810.331 MHz : 13.886 dBm Delta1 : 43.287 MHz : 2.434 dB T1 : 5776.463 MHz : 6.357 dBm T2 : 5813.337 MHz : 7.962 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 43.287 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

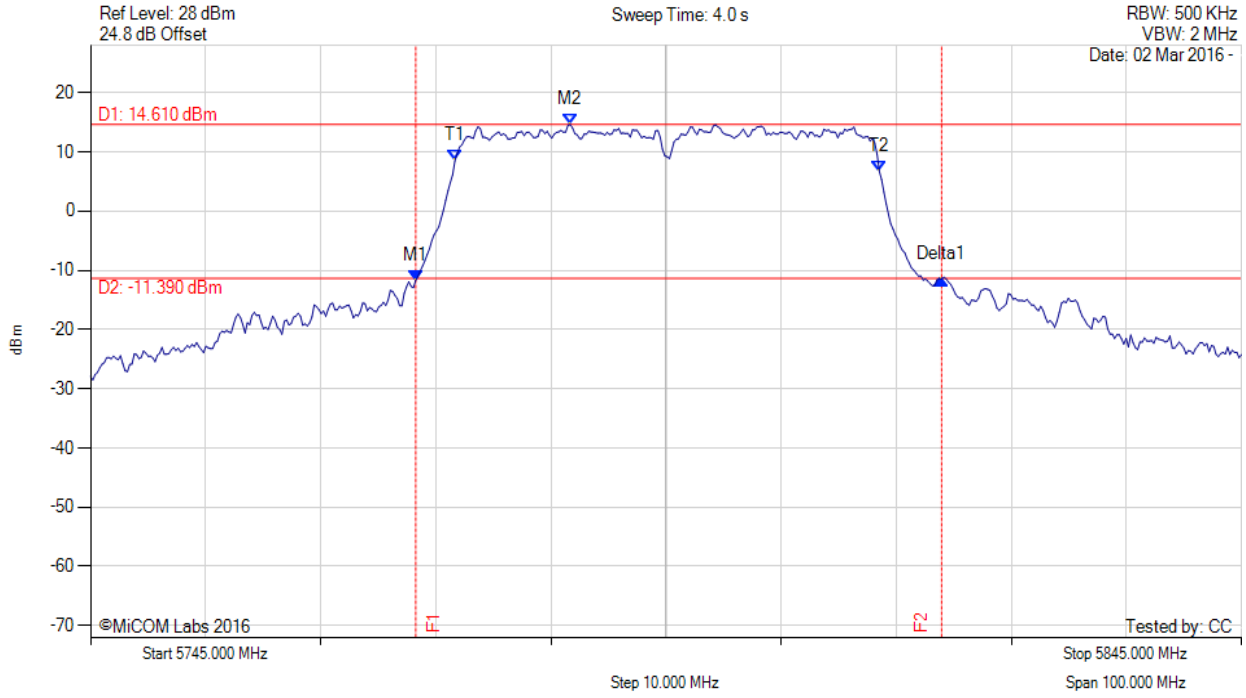


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.257 MHz : -12.543 dBm M2 : 5786.683 MHz : 14.223 dBm Delta1 : 45.691 MHz : 0.722 dB T1 : 5776.663 MHz : 8.315 dBm T2 : 5813.337 MHz : 8.991 dBm OBW : 36.673 MHz	Measured 26 dB Bandwidth: 45.691 MHz Measured 99% Bandwidth: 36.673 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

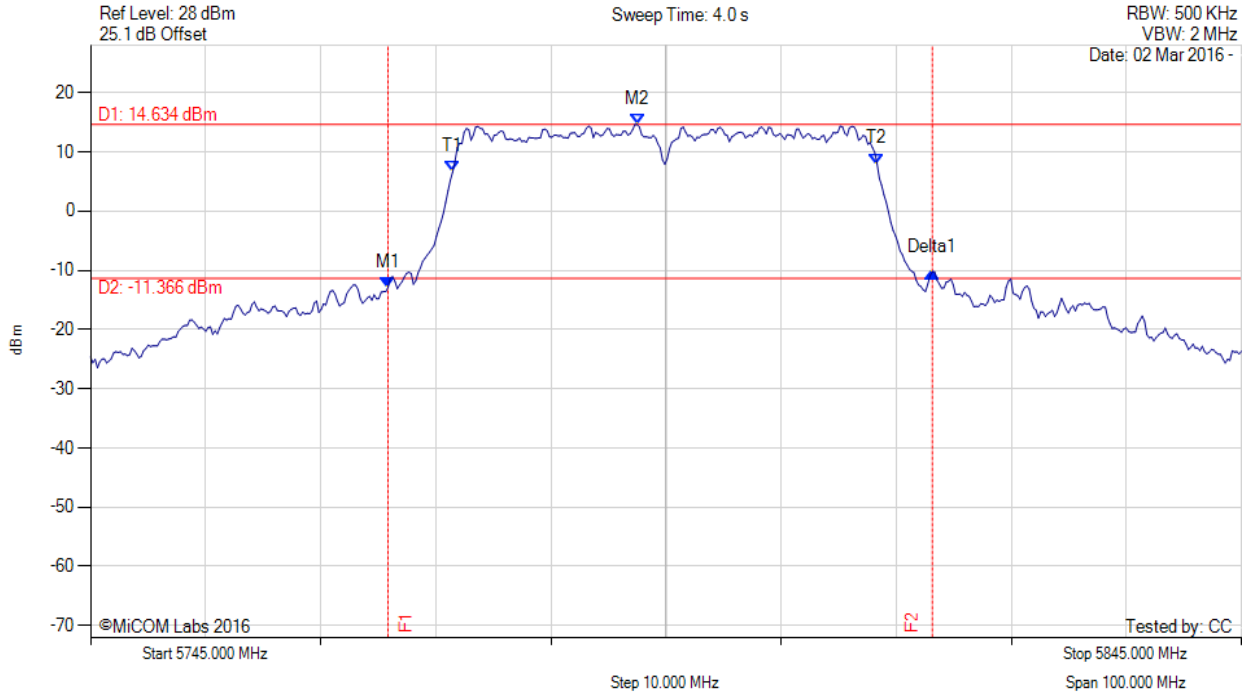


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5773.257 MHz : -11.693 dBm M2 : 5786.683 MHz : 14.610 dBm Delta1 : 45.691 MHz : 0.201 dB T1 : 5776.663 MHz : 8.500 dBm T2 : 5813.537 MHz : 6.705 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 45.691 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc



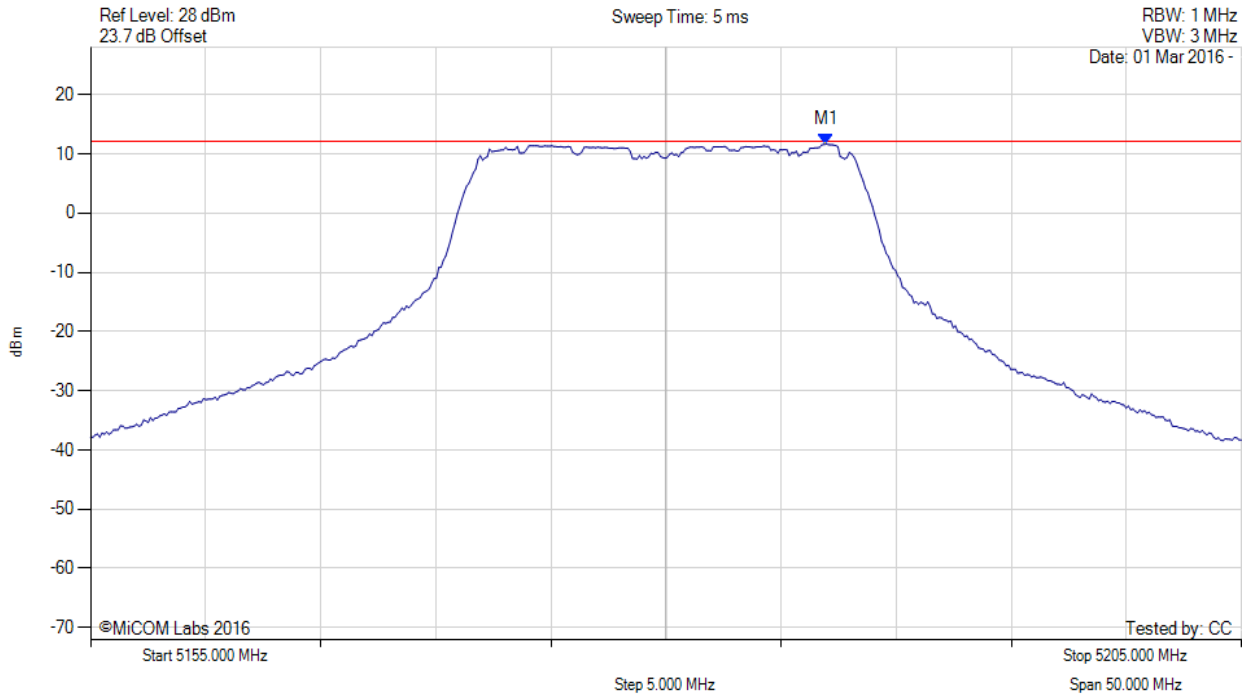
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5770.852 MHz : -12.862 dBm M2 : 5792.495 MHz : 14.634 dBm Delta1 : 47.295 MHz : 2.556 dB T1 : 5776.463 MHz : 6.603 dBm T2 : 5813.337 MHz : 7.990 dBm OBW : 36.874 MHz	Measured 26 dB Bandwidth: 47.295 MHz Measured 99% Bandwidth: 36.874 MHz

back to matrix

A.2. Power Spectral Density

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

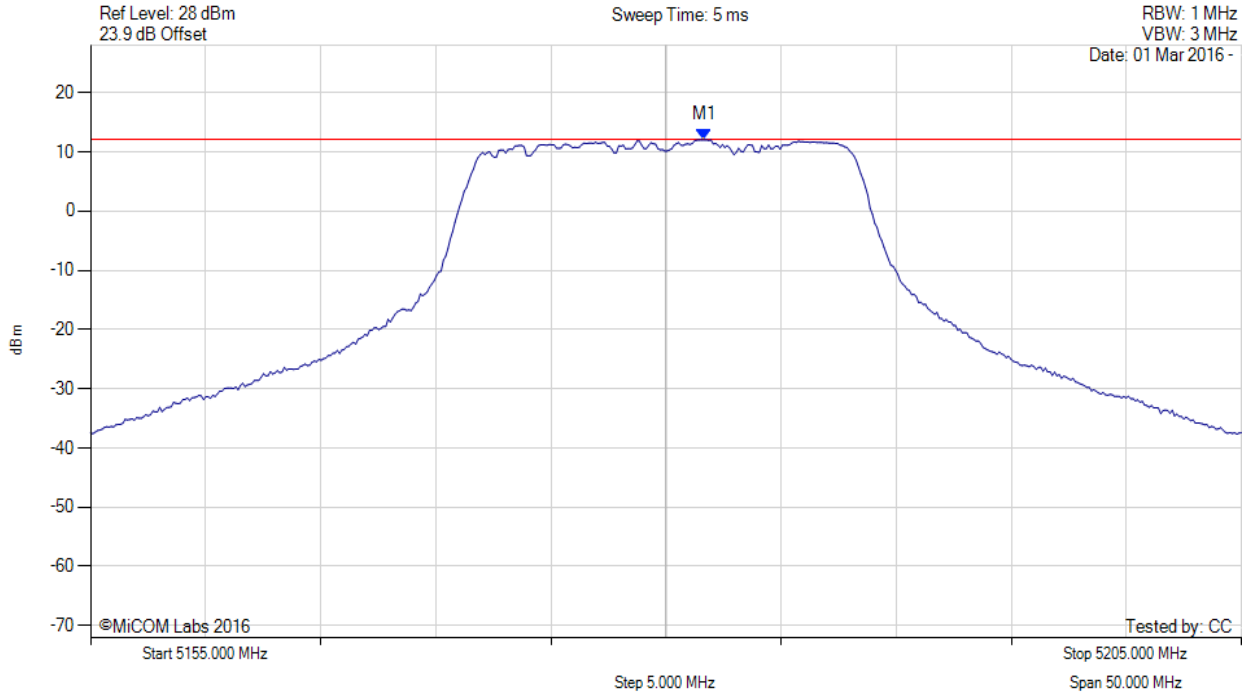


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5186.964 MHz : 11.648 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

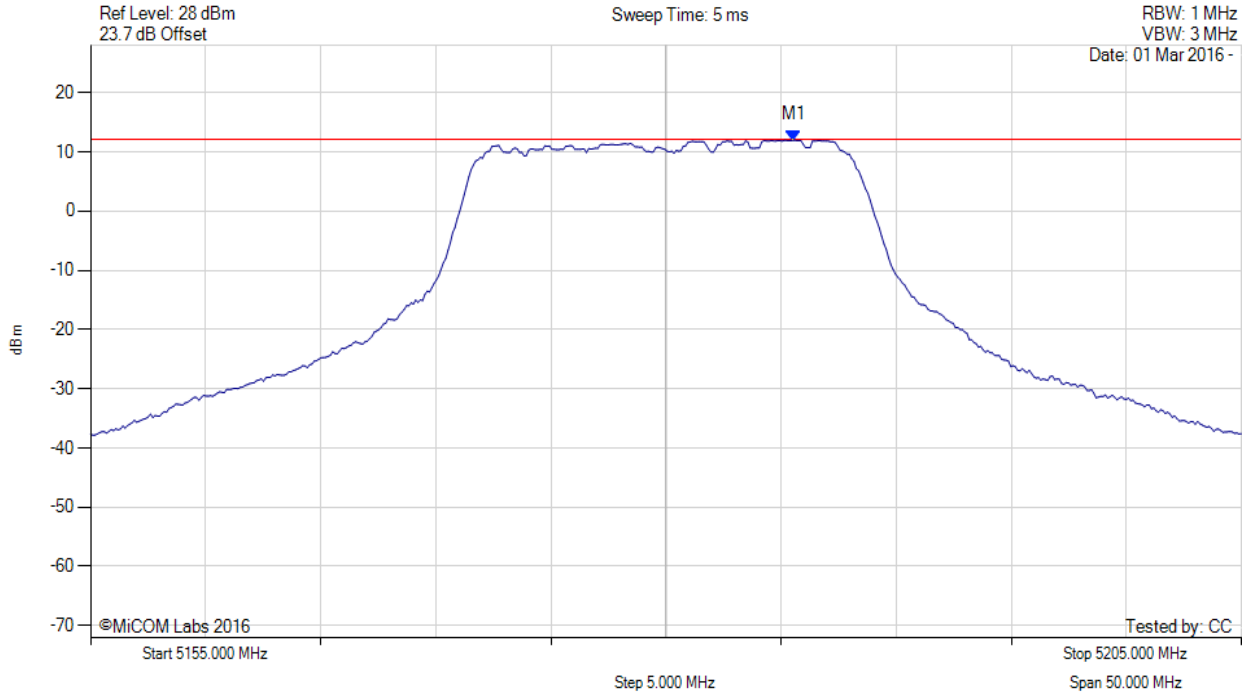


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5181.653 MHz : 12.037 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

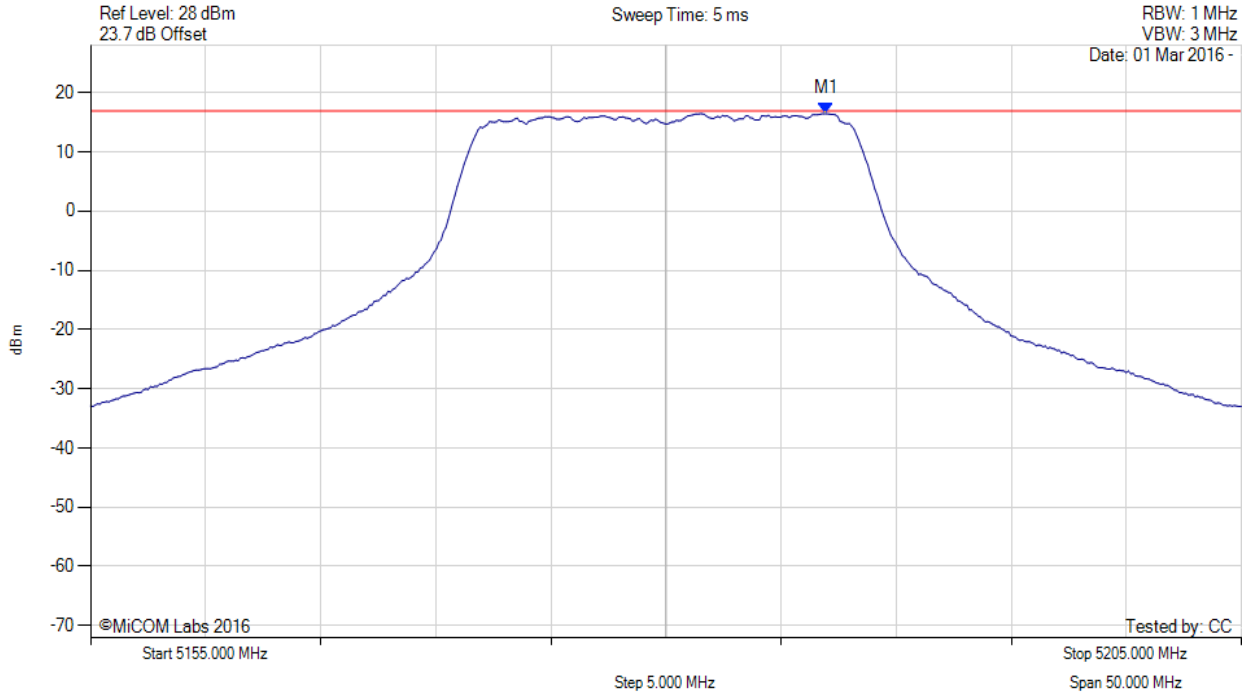


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5185.561 MHz : 11.970 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

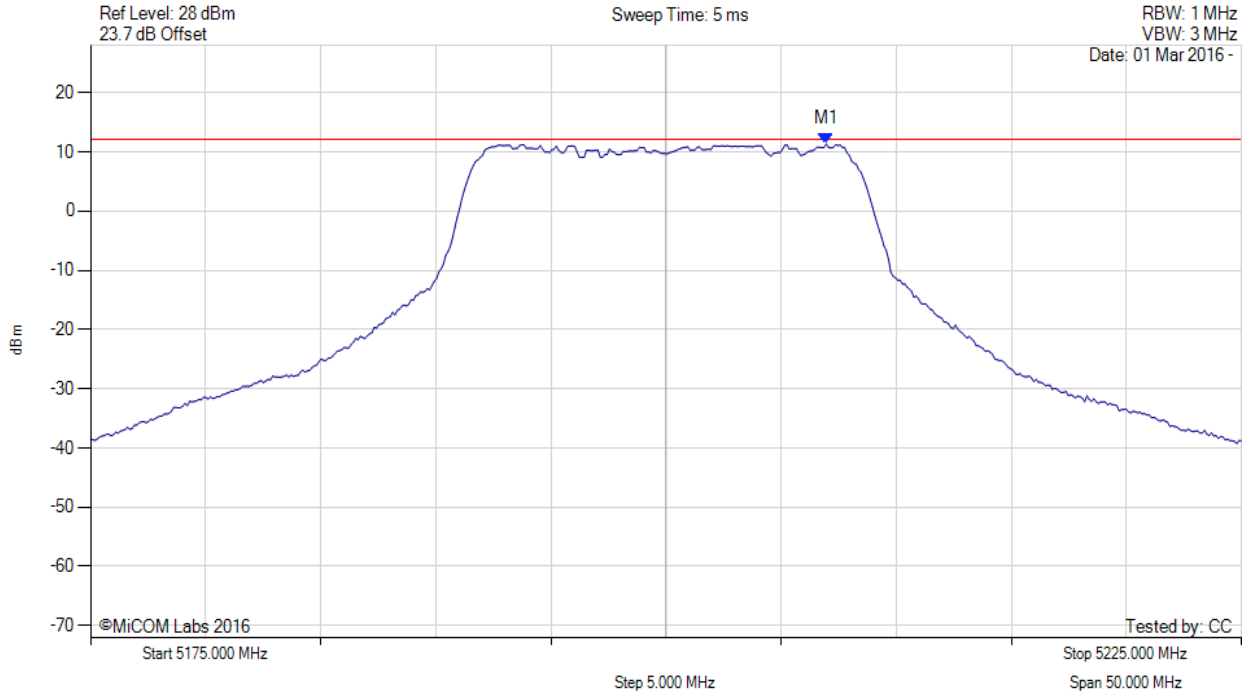


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.000 MHz : 16.457 dBm M1 + DCCF : 5187.000 MHz : 16.501 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -0.4 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

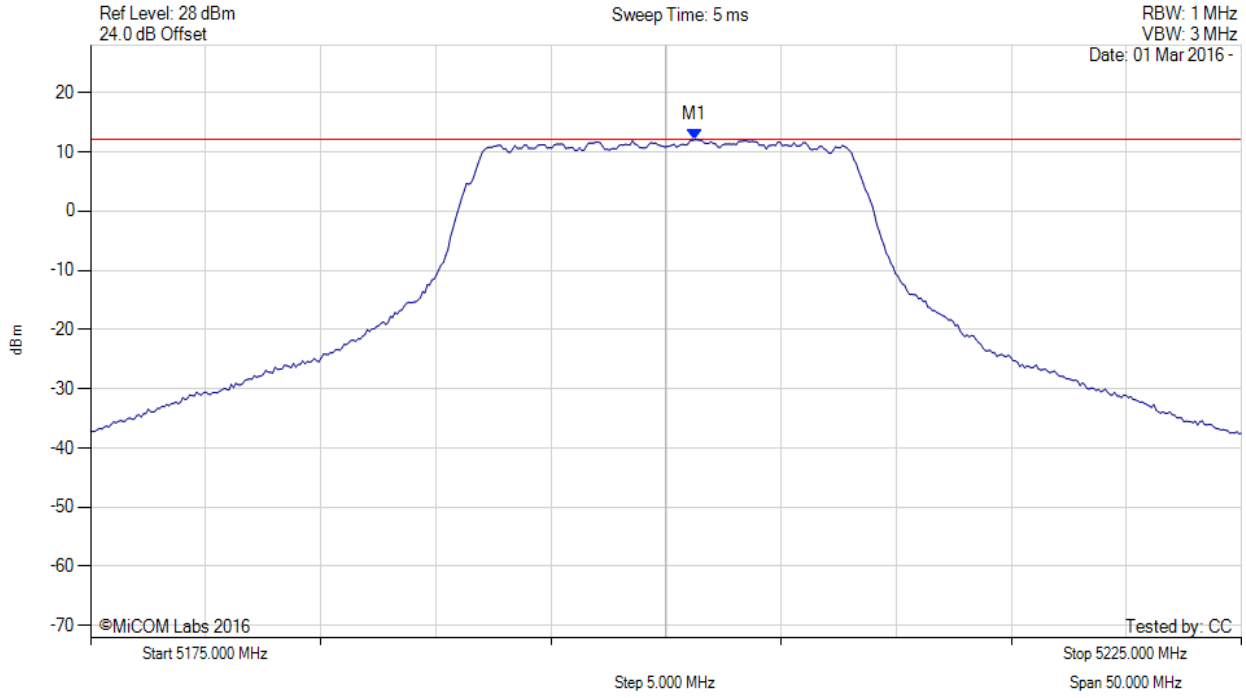


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5206.964 MHz : 11.323 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

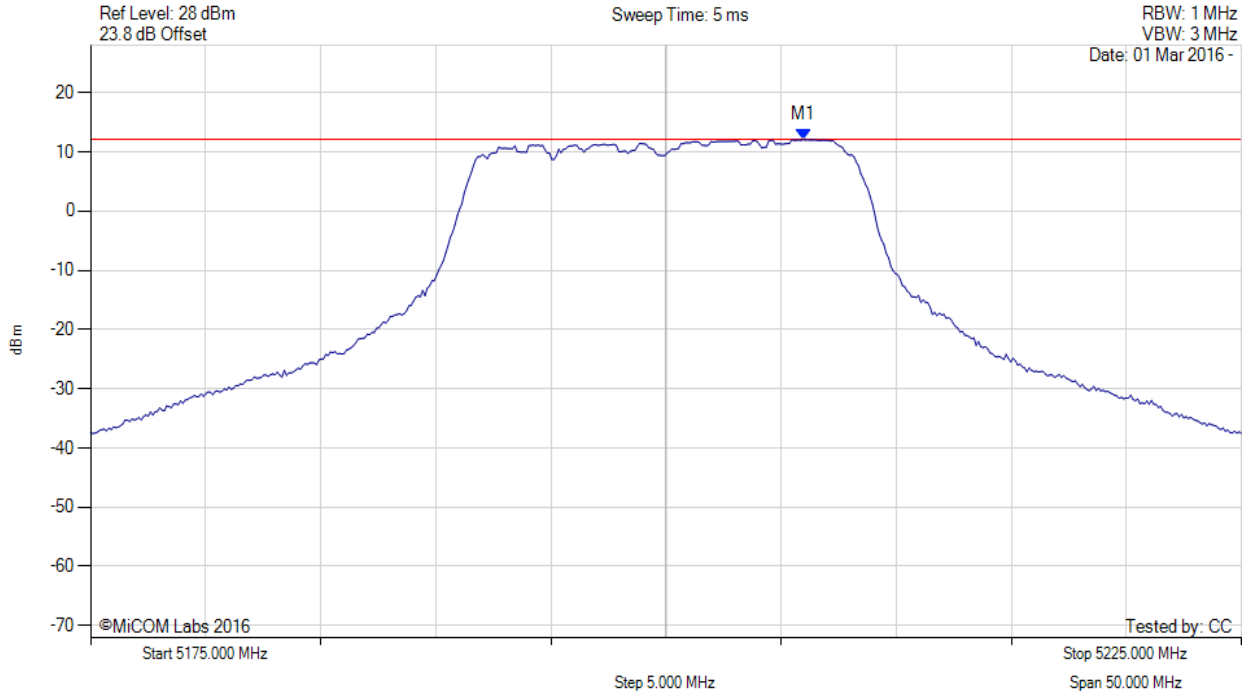


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5201.253 MHz : 12.051 dBm	Channel Frequency: 5200.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

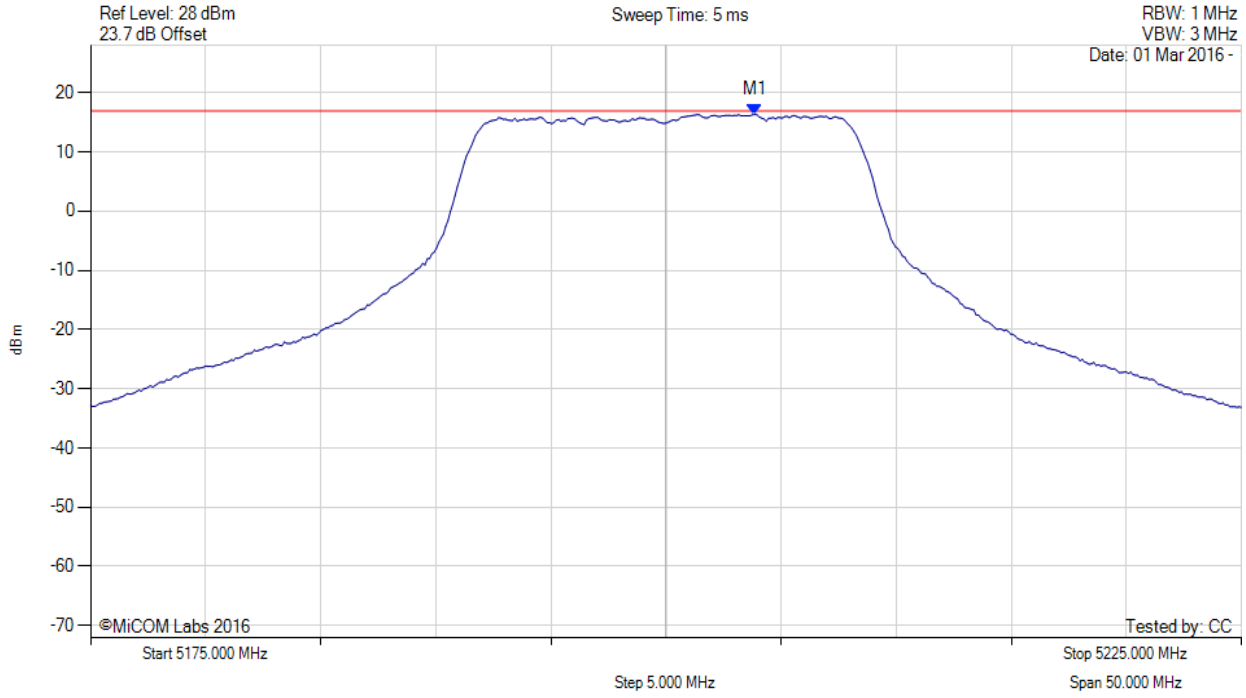


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.962 MHz : 12.094 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

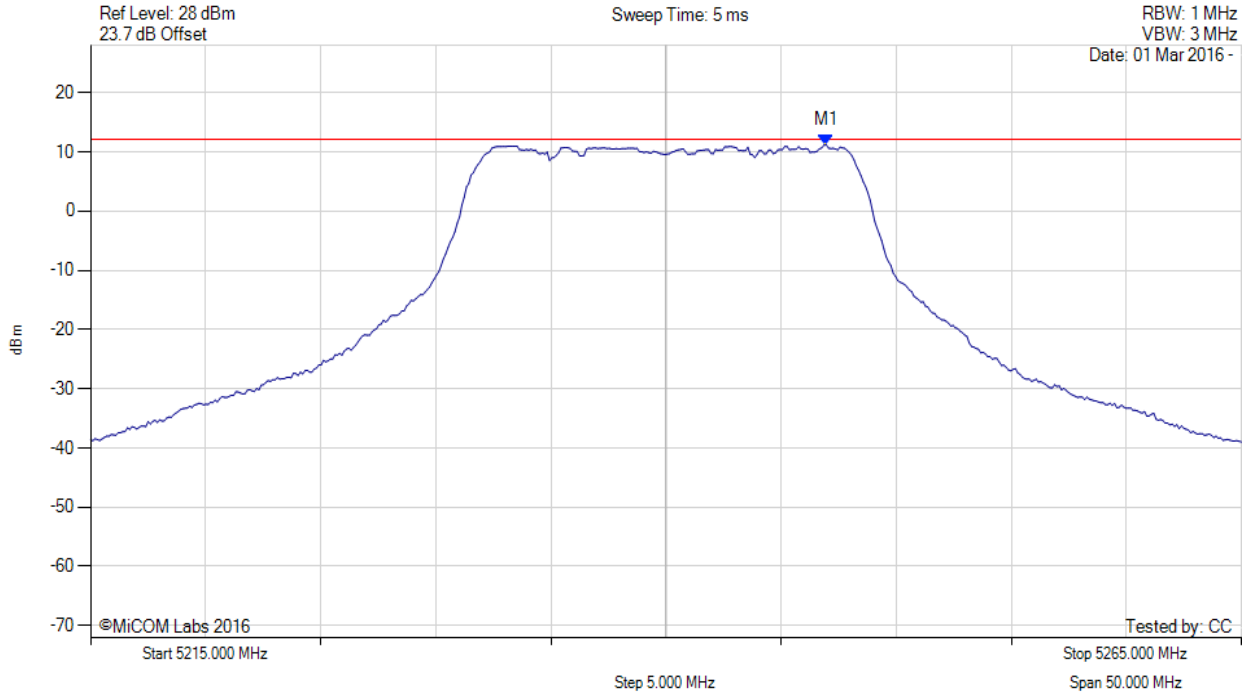


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5203.900 MHz : 16.320 dBm M1 + DCCF : 5203.900 MHz : 16.364 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -0.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

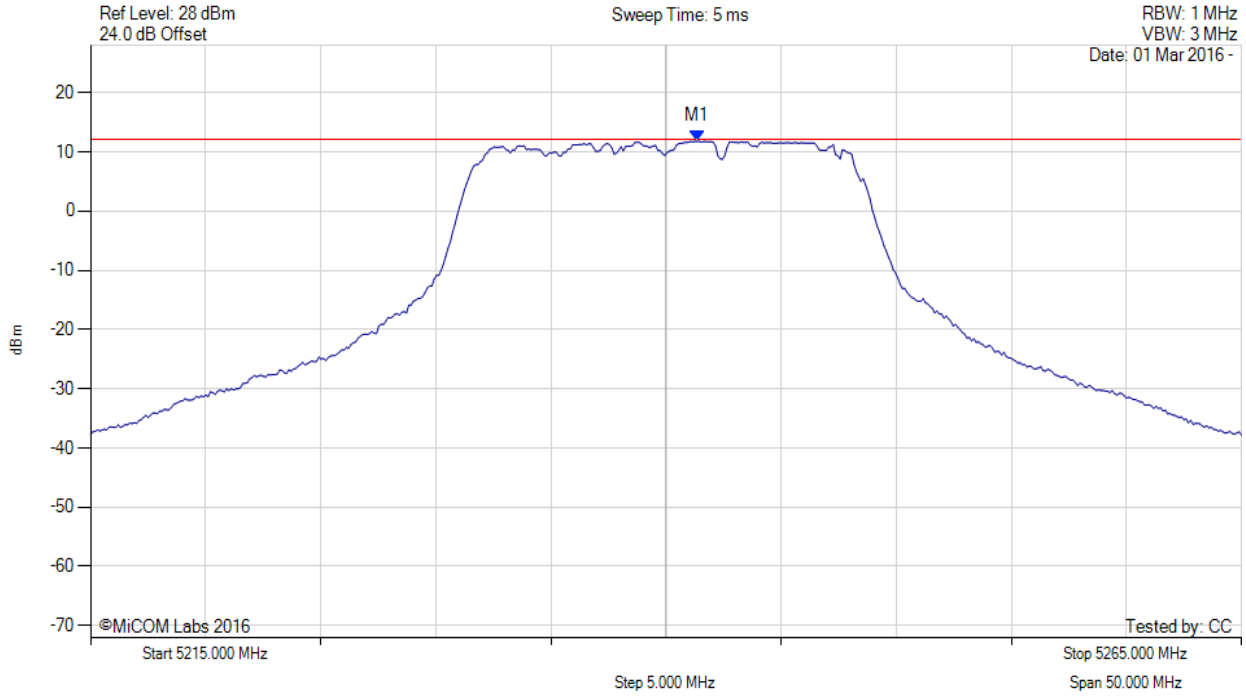


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5246.964 MHz : 11.175 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

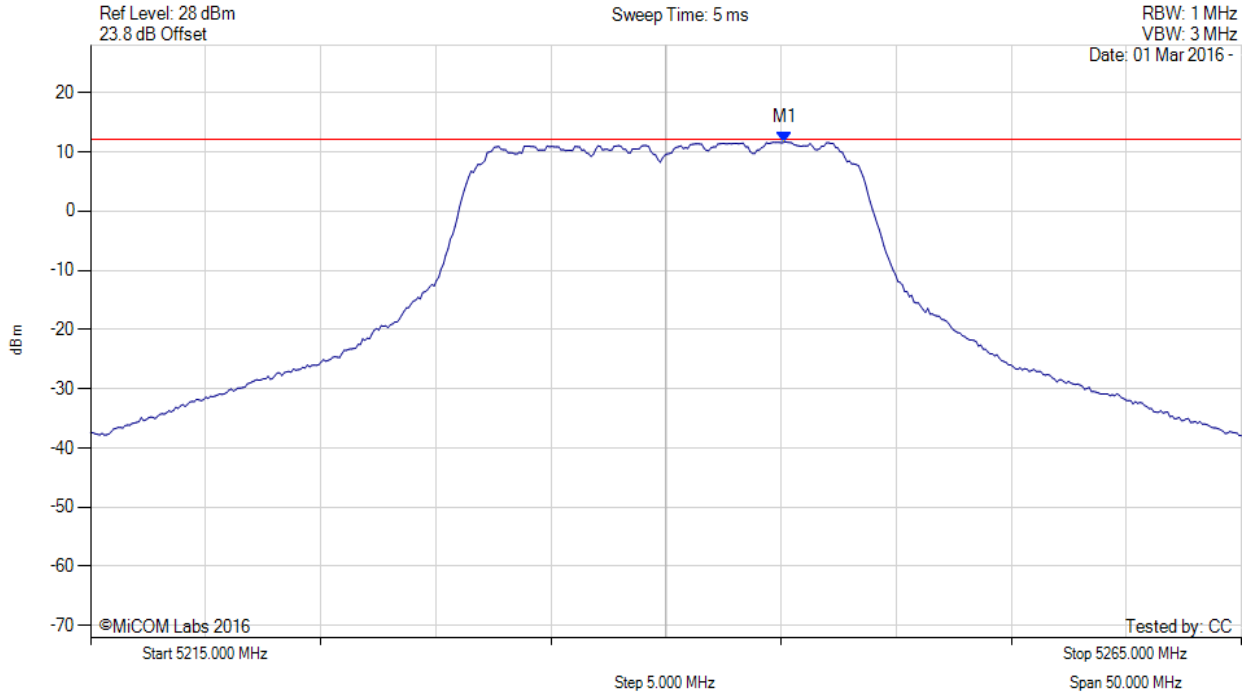


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5241.353 MHz : 11.785 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc



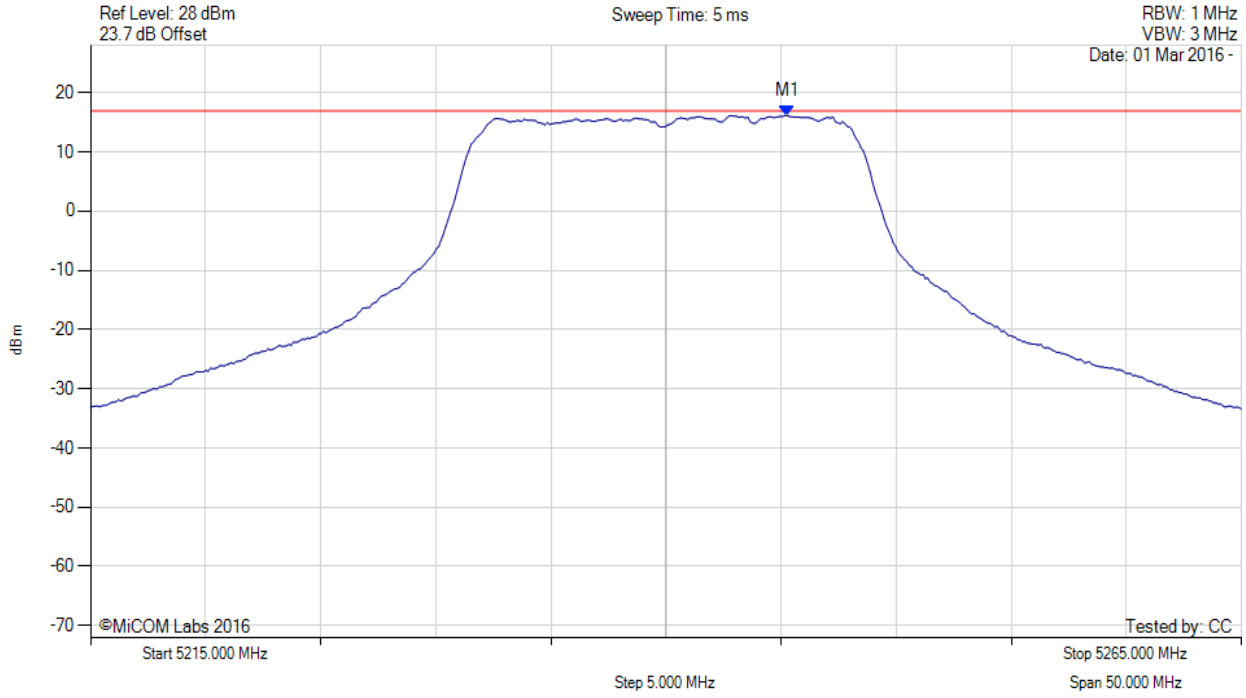
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.160 MHz : 11.641 dBm	Limit: ≤ 12.130 dBm

back to matrix

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

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

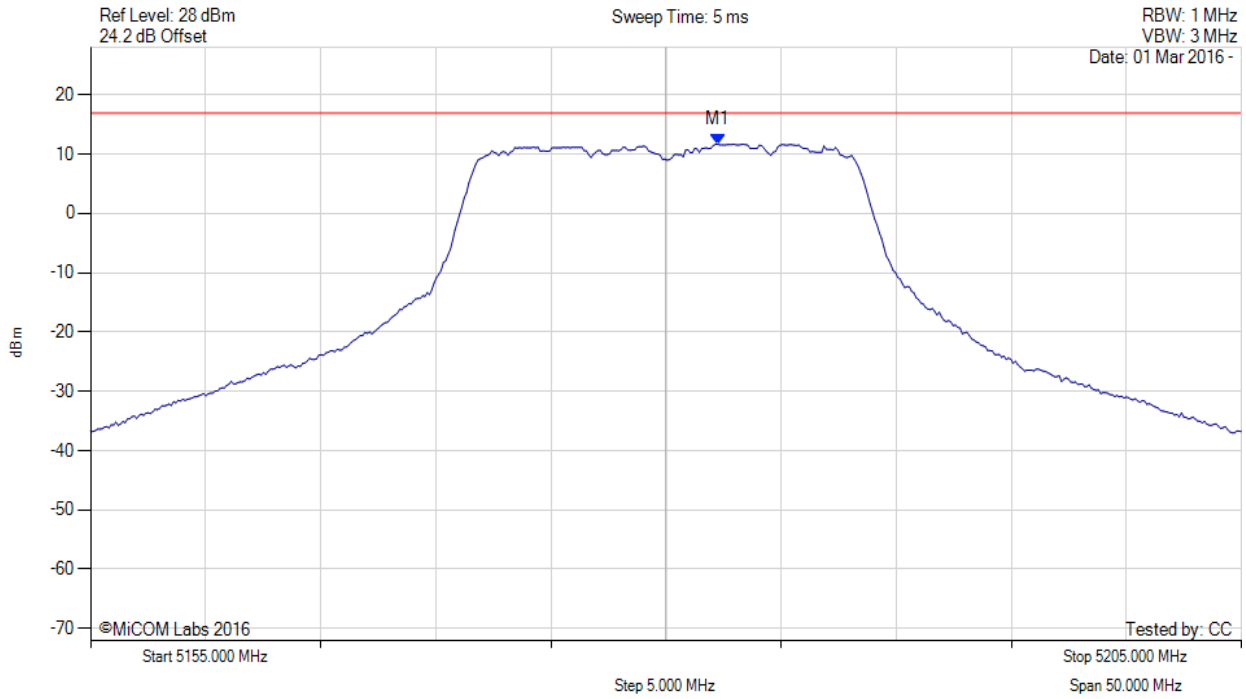


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.300 MHz : 16.147 dBm M1 + DCCF : 5245.300 MHz : 16.191 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -0.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

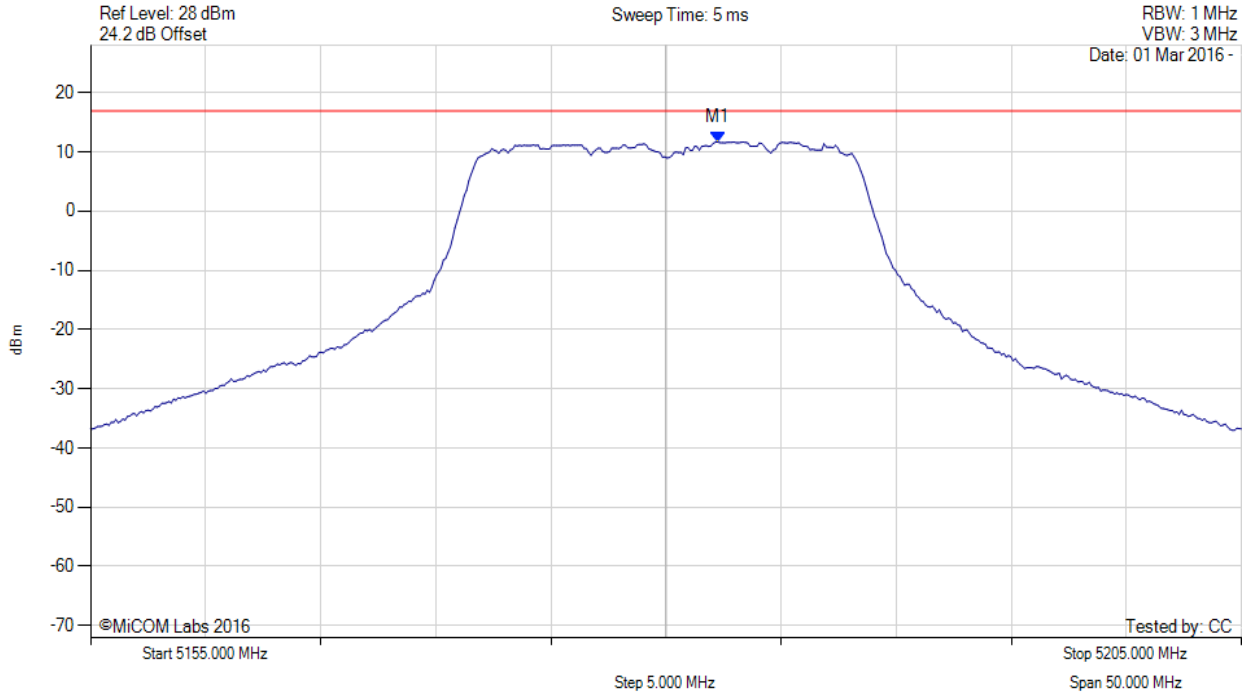


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5182.255 MHz : 11.654 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

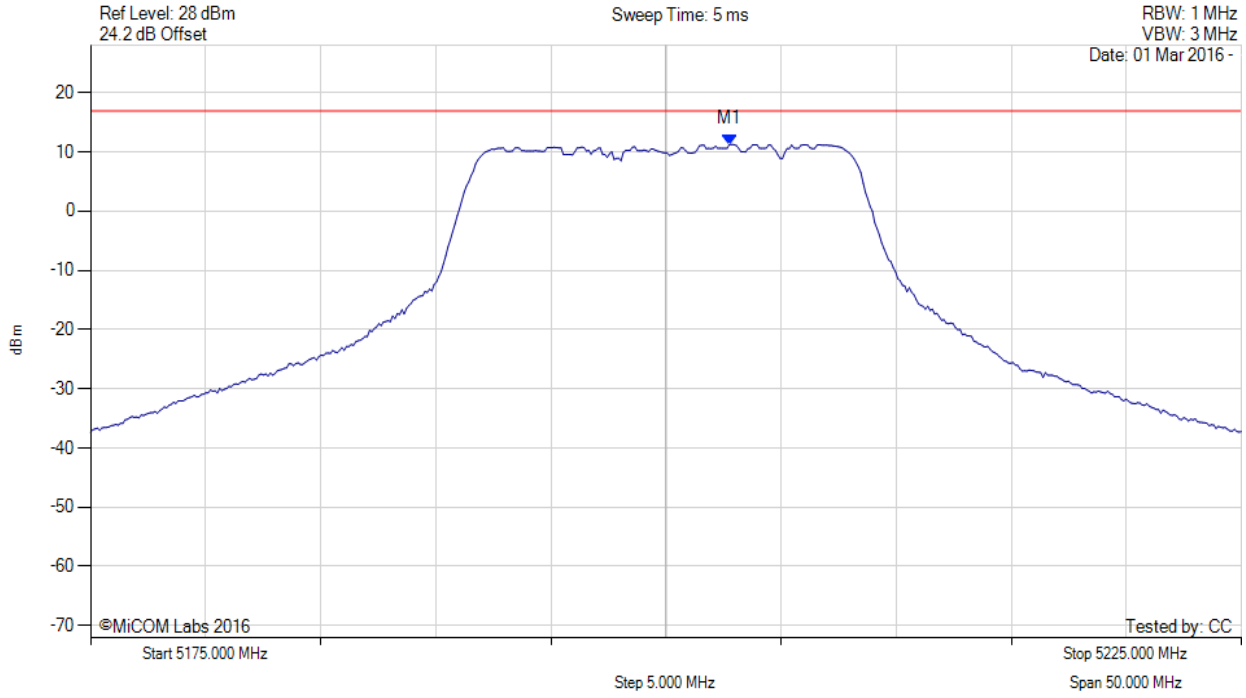


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5182.300 MHz : 11.654 dBm M1 + DCCF : 5182.300 MHz : 11.698 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -5.2 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

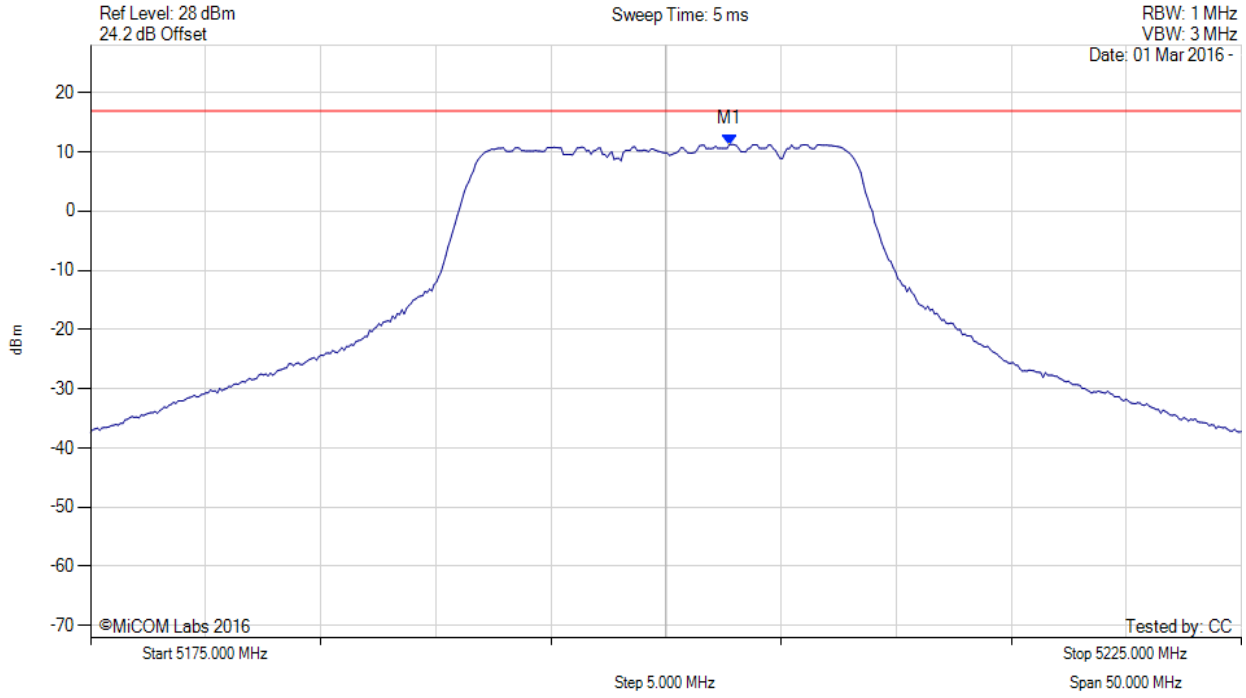


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5202.756 MHz : 11.249 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

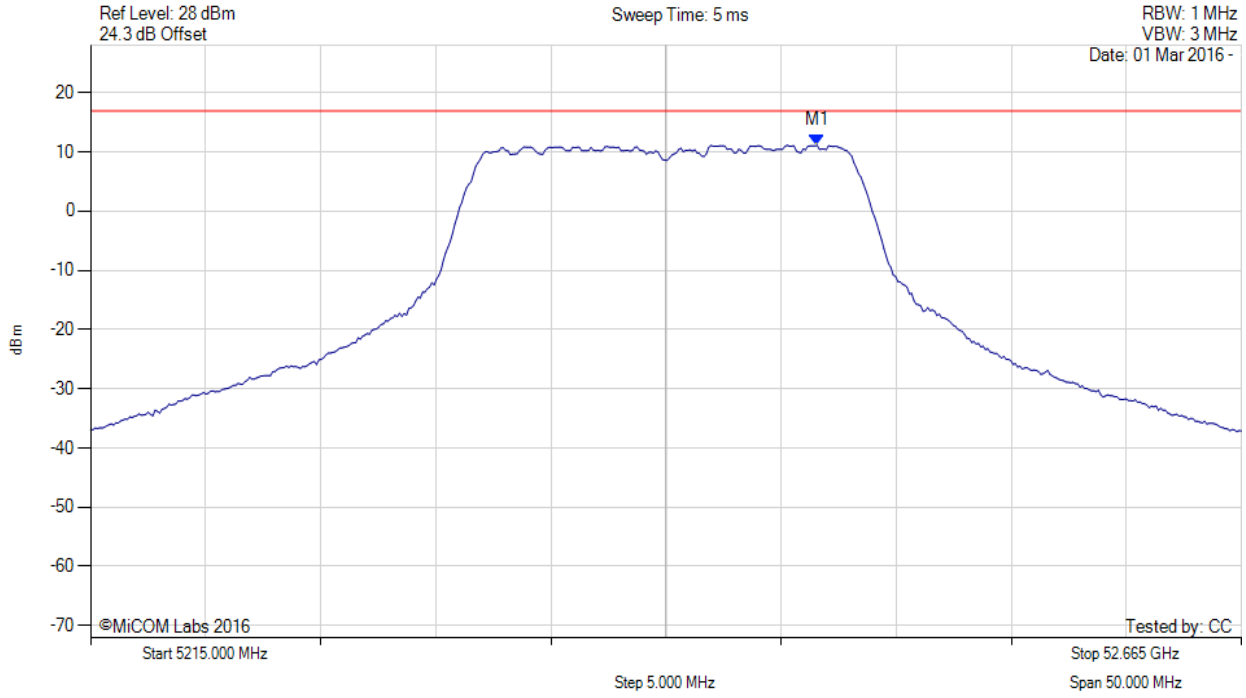


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5202.800 MHz : 11.249 dBm M1 + DCCF : 5202.800 MHz : 11.293 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -5.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

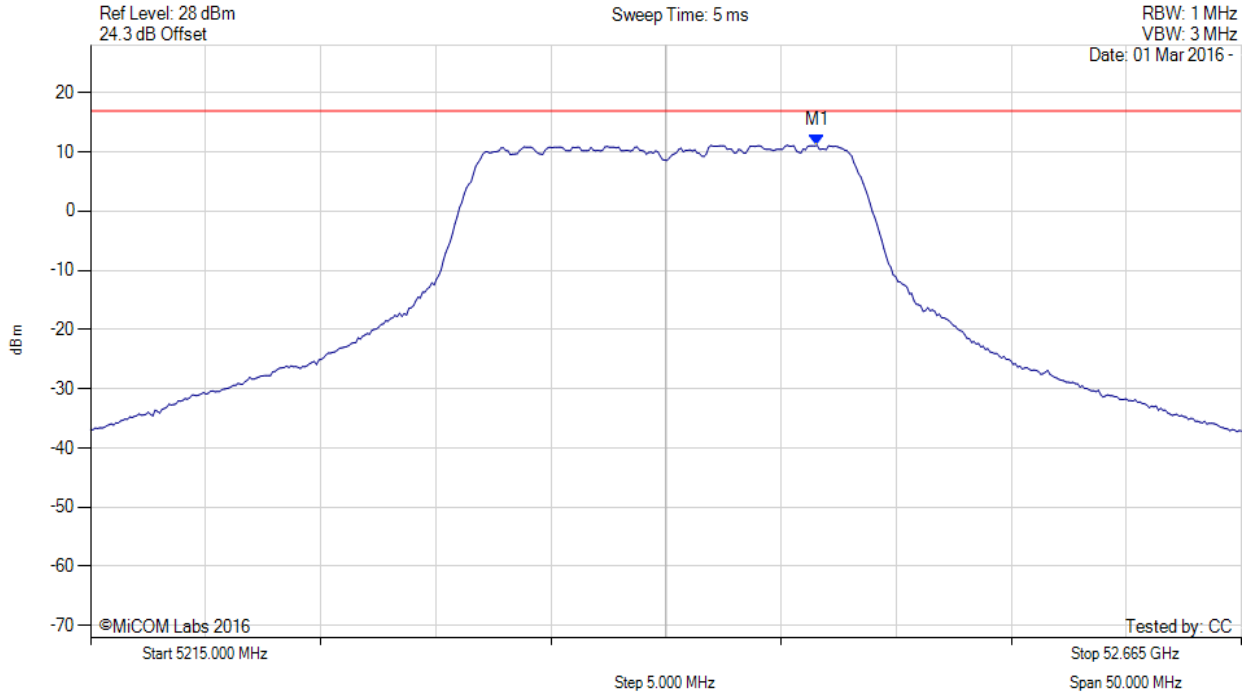


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5246.563 MHz : 11.126 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

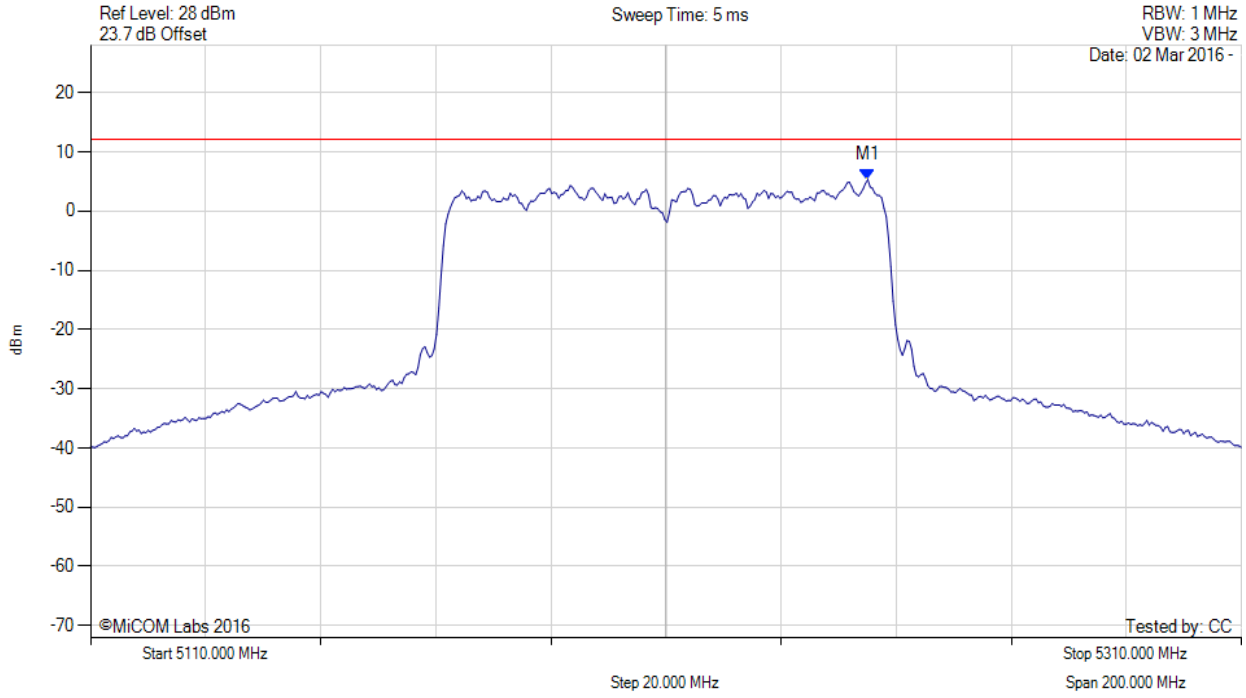


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5246.600 MHz : 11.126 dBm M1 + DCCF : 5246.600 MHz : 11.170 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 16.9 dBm Margin: -5.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

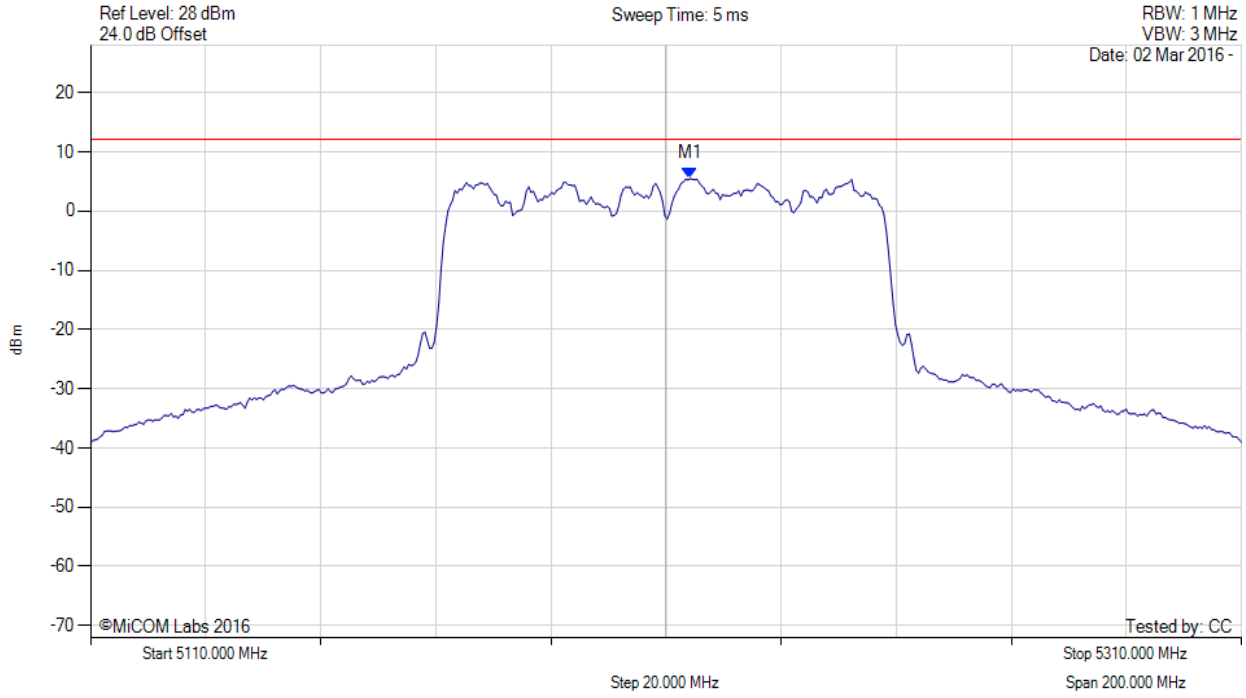


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.070 MHz : 5.327 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

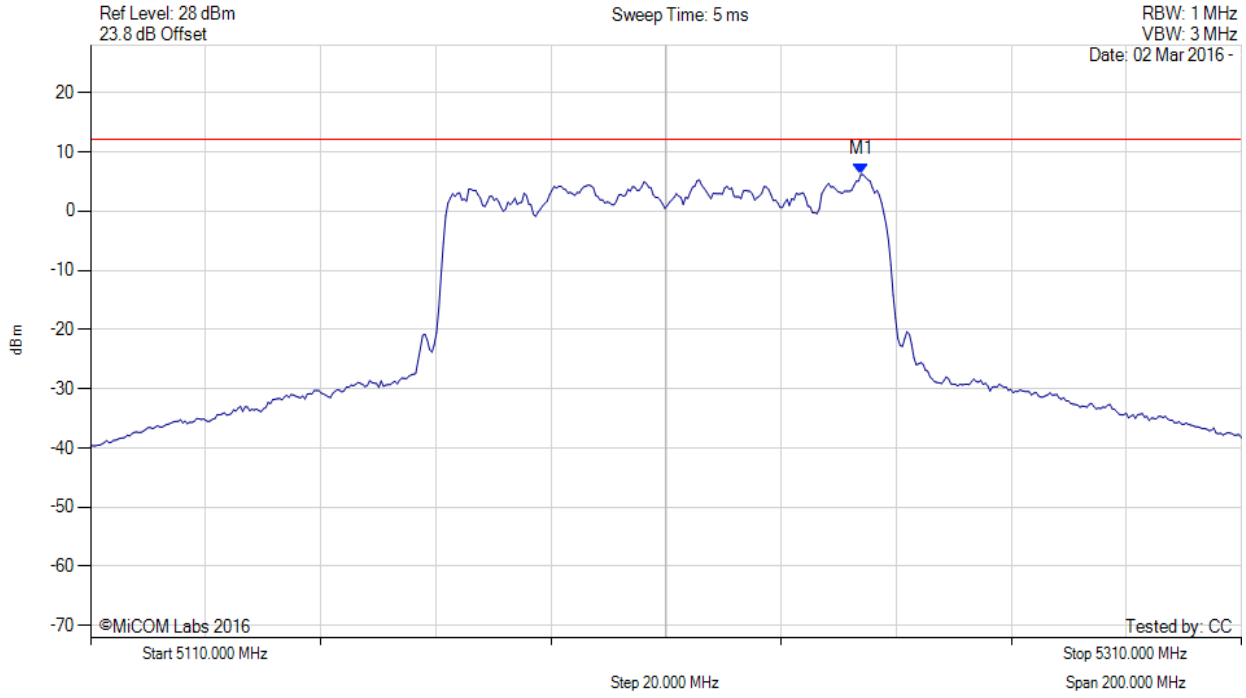


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5214.208 MHz : 5.474 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

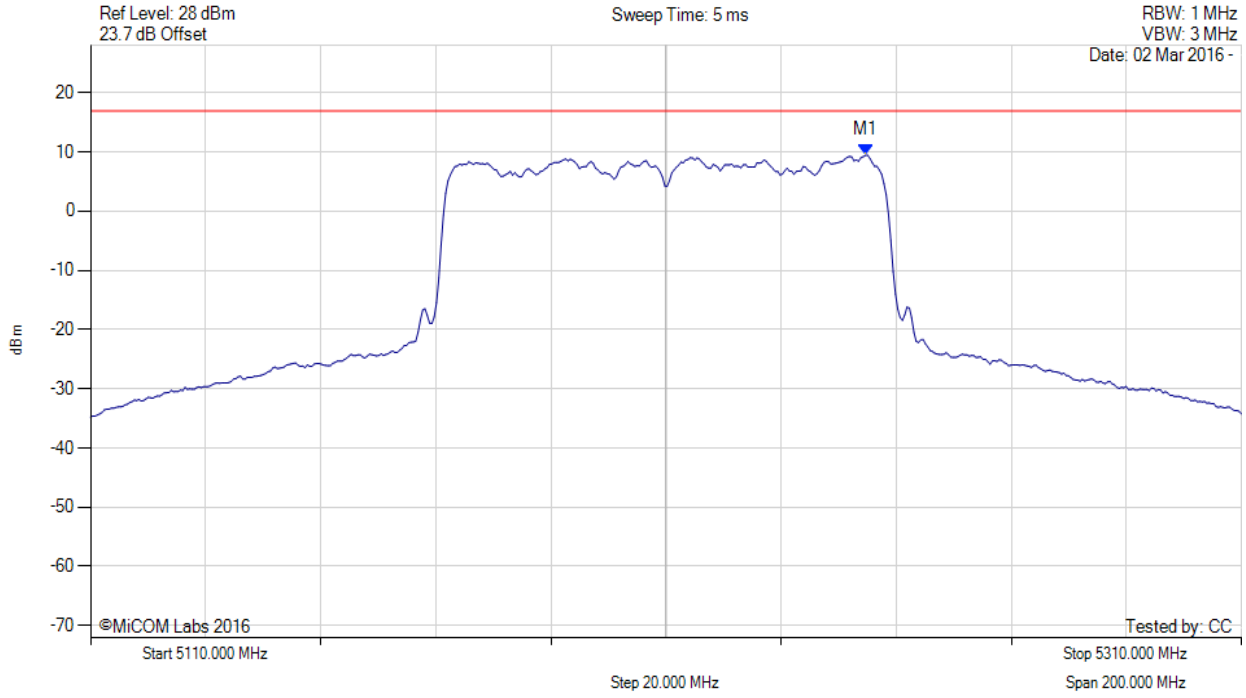


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.868 MHz : 6.186 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

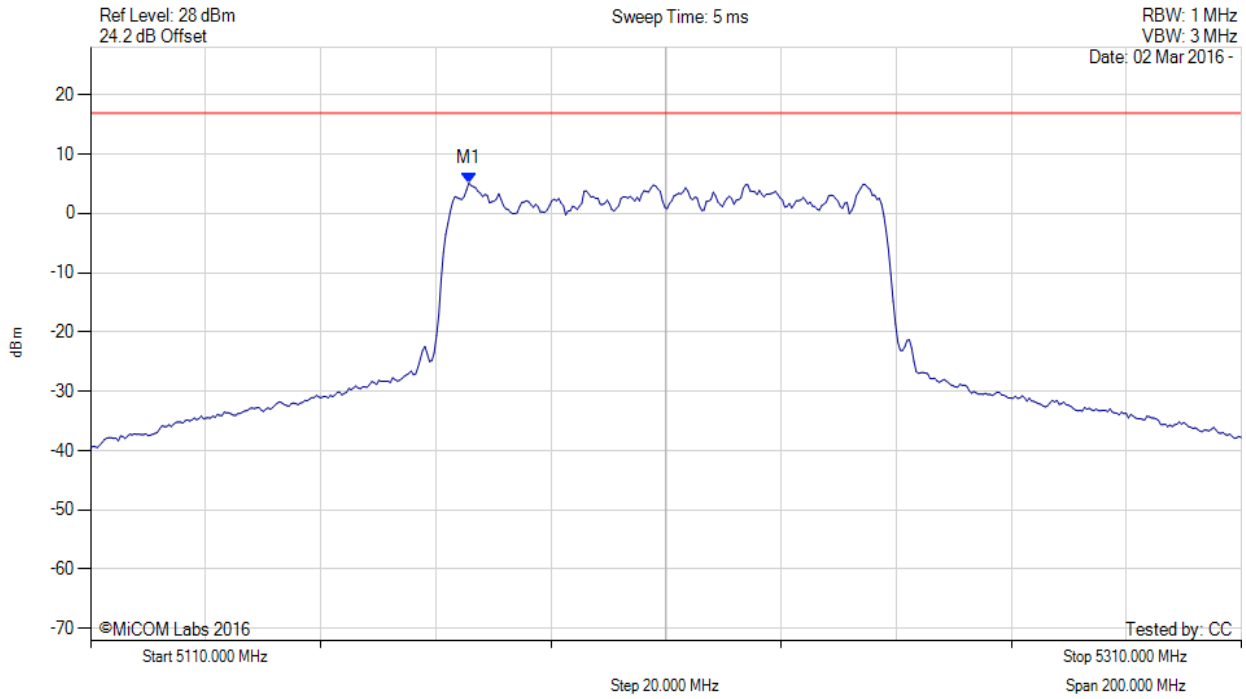


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5244.700 MHz : 9.428 dBm M1 + DCCF : 5244.700 MHz : 9.743 dBm Duty Cycle Correction Factor : +0.32 dB	Limit: ≤ 16.9 dBm Margin: -7.1 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

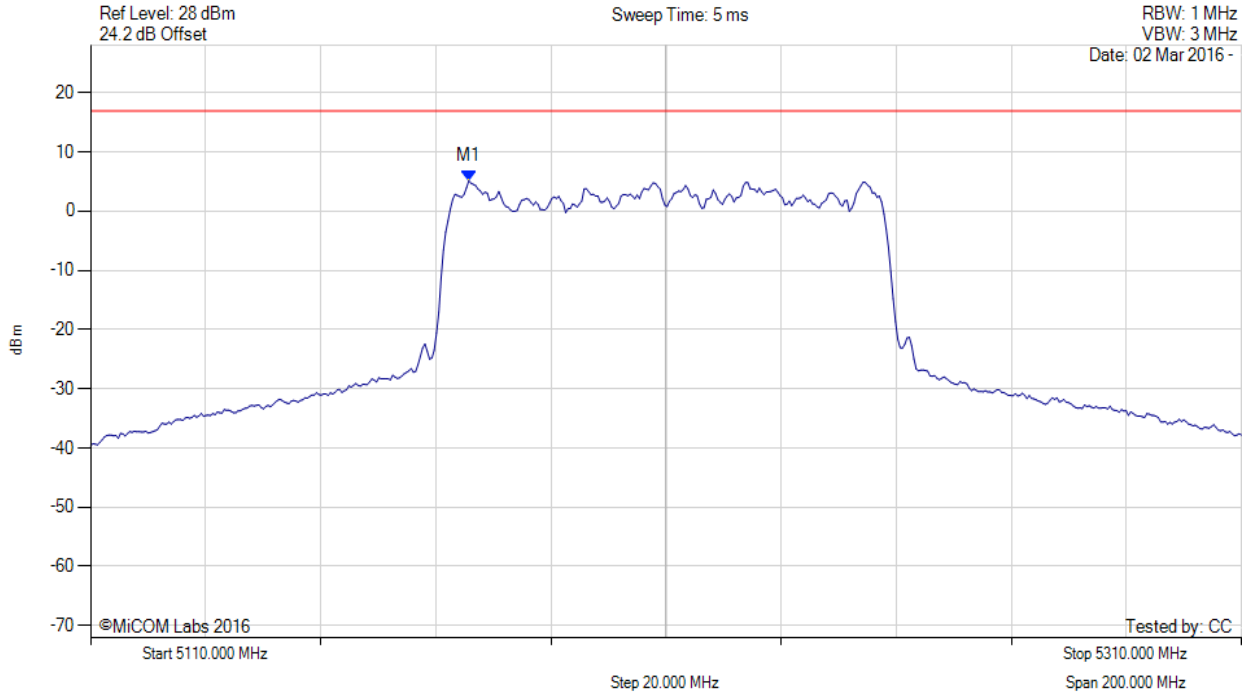


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5175.731 MHz : 5.140 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5210.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

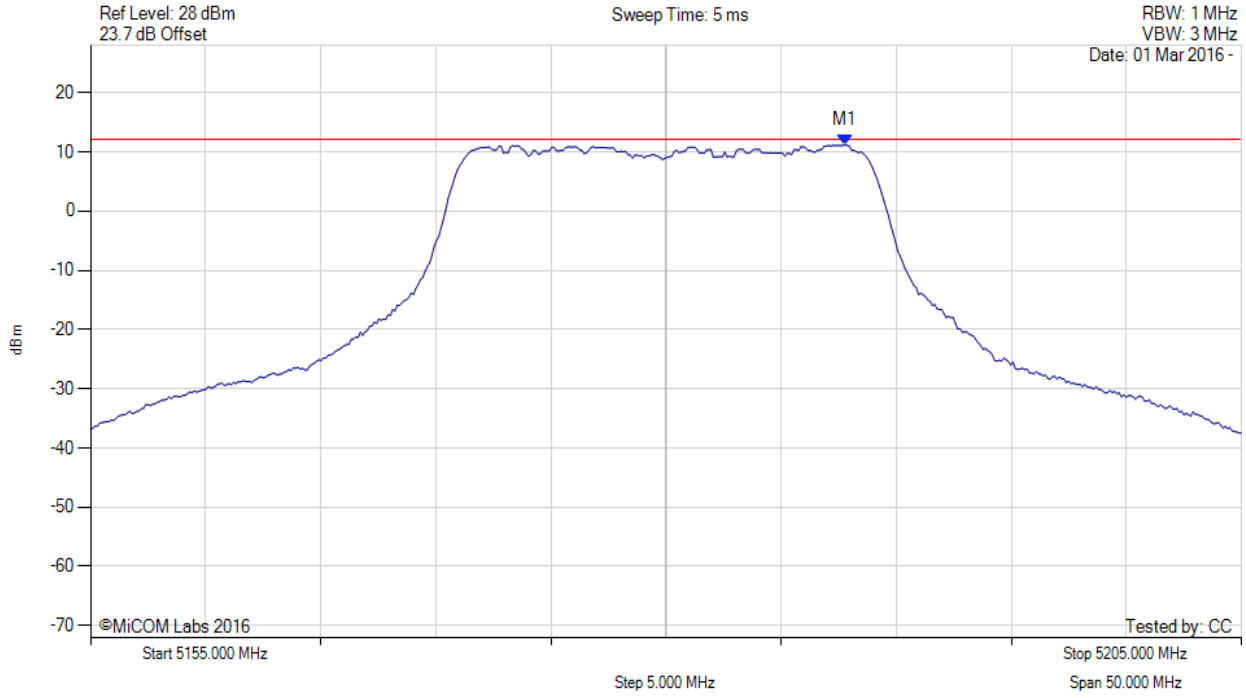


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5175.700 MHz : 5.140 dBm M1 + DCCF : 5175.700 MHz : 5.455 dBm Duty Cycle Correction Factor : +0.32 dB	Limit: ≤ 16.9 dBm Margin: -11.4 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

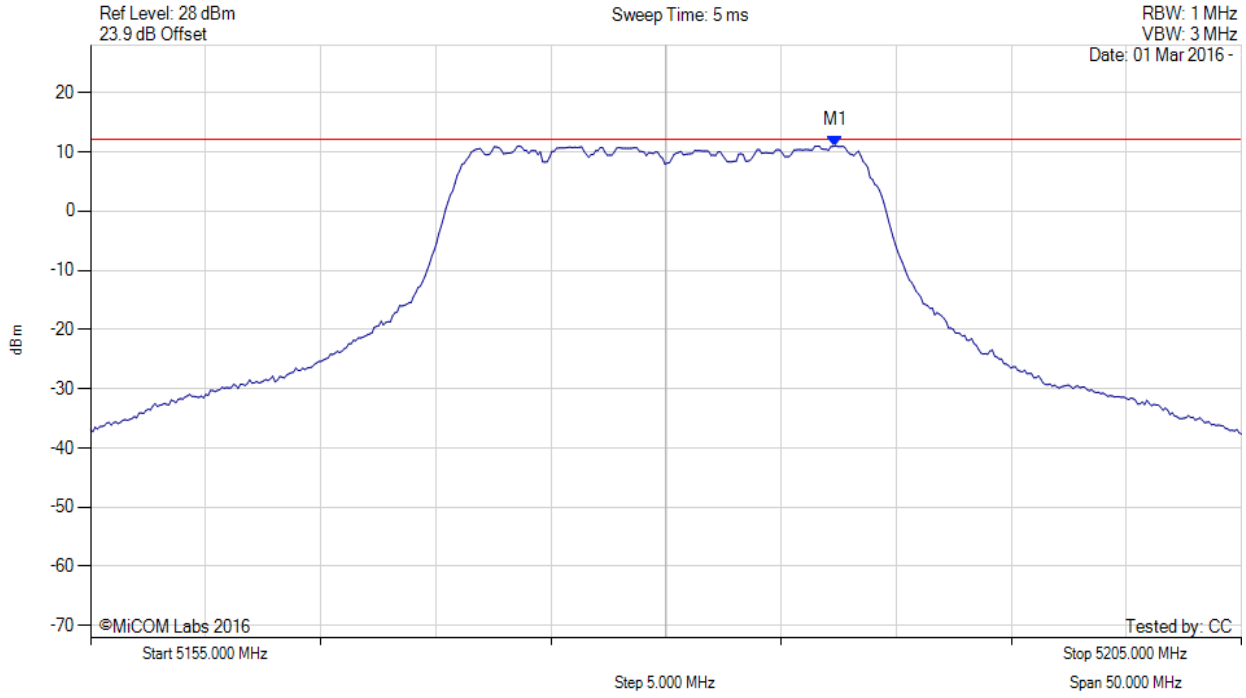


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.766 MHz : 11.152 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

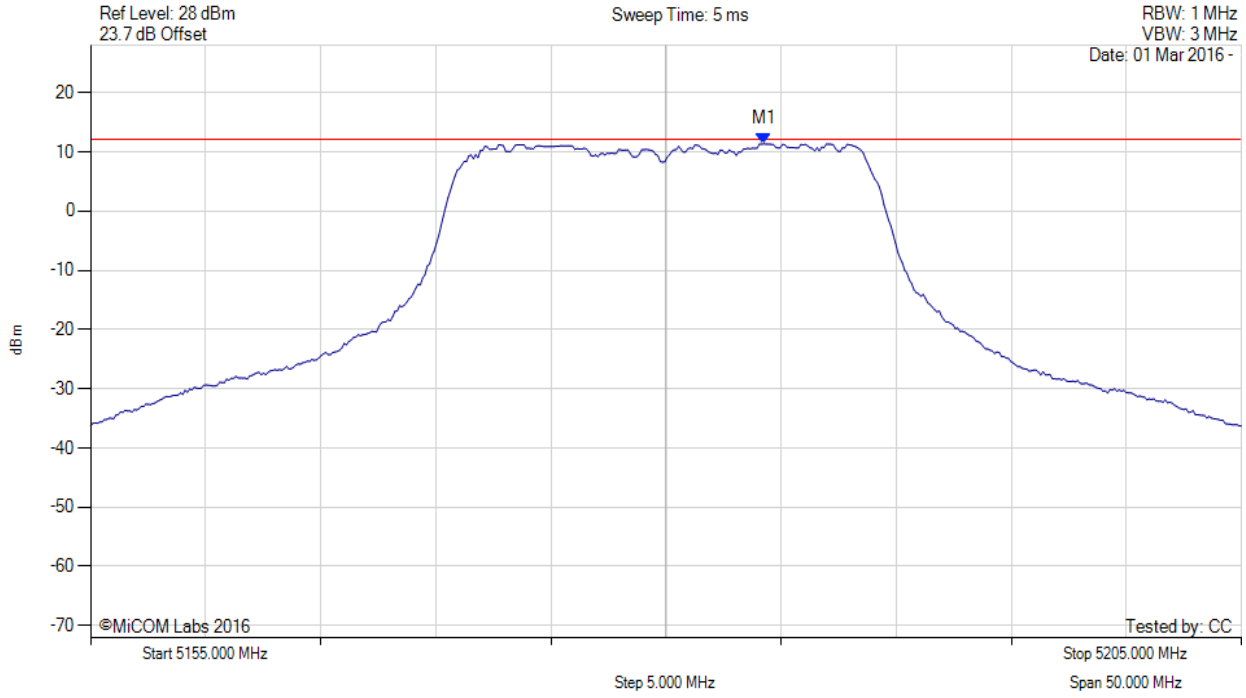


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.365 MHz : 11.039 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

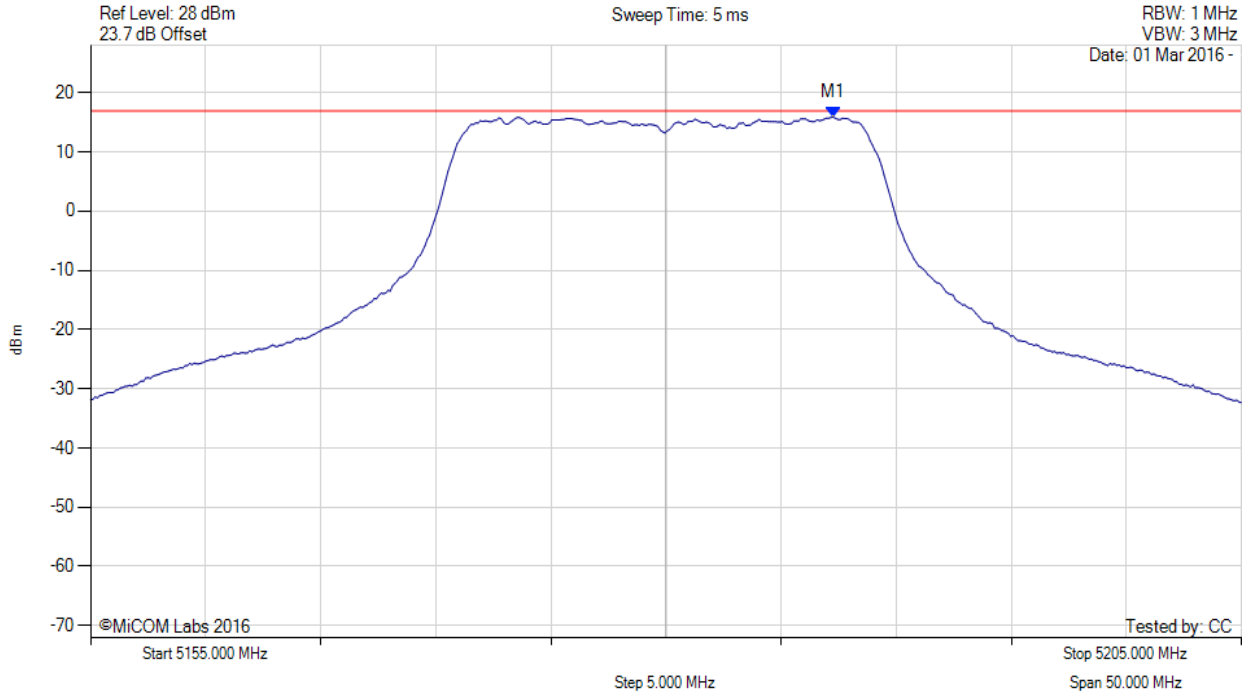


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5184.259 MHz : 11.363 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

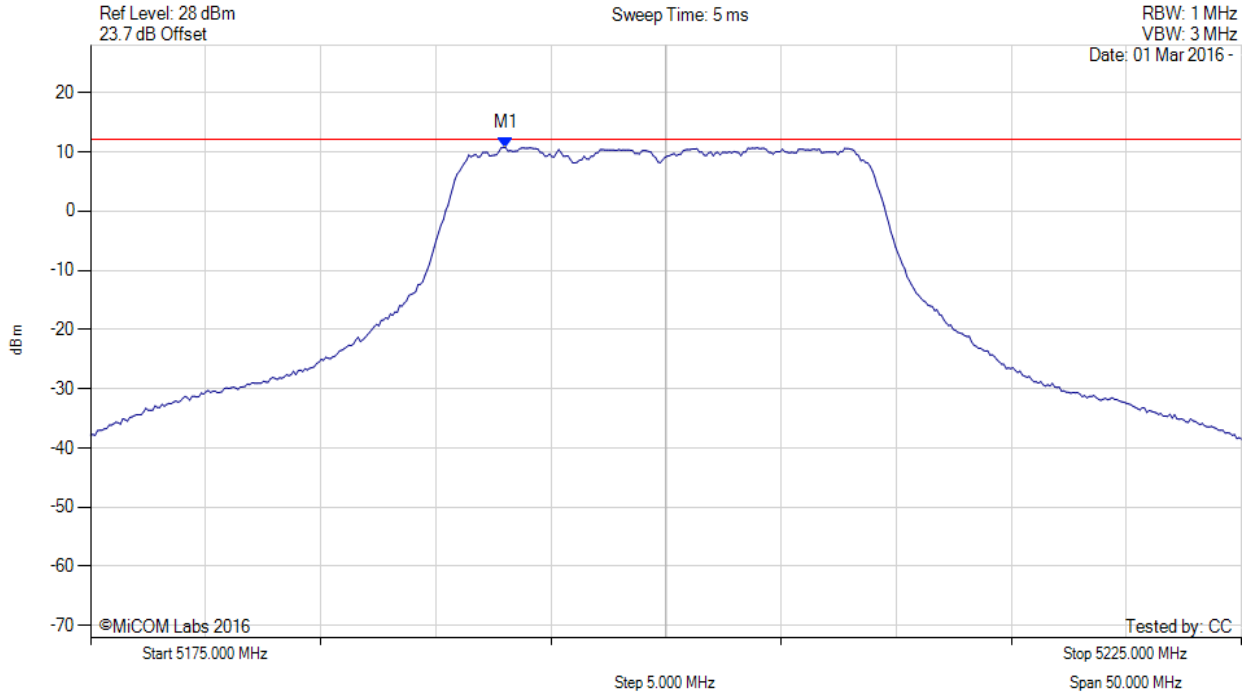


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.300 MHz : 15.850 dBm M1 + DCCF : 5187.300 MHz : 15.938 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -0.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

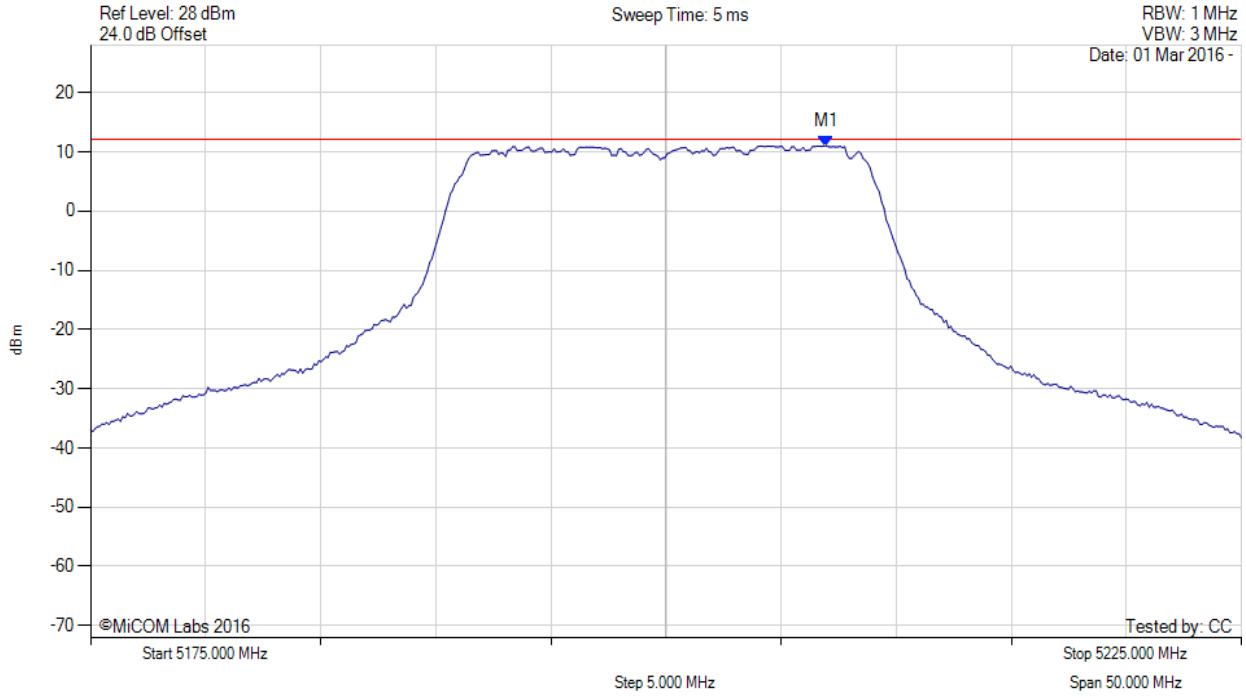


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5193.036 MHz : 10.714 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

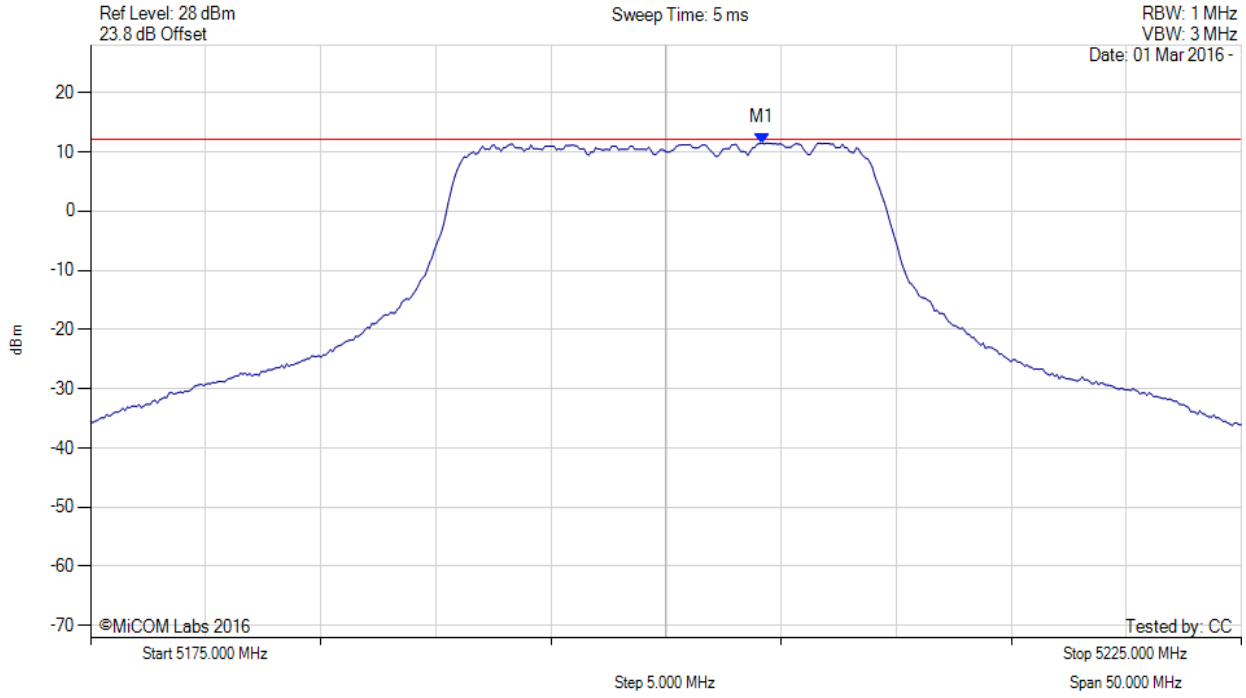


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5206.964 MHz : 11.009 dBm	Channel Frequency: 5200.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

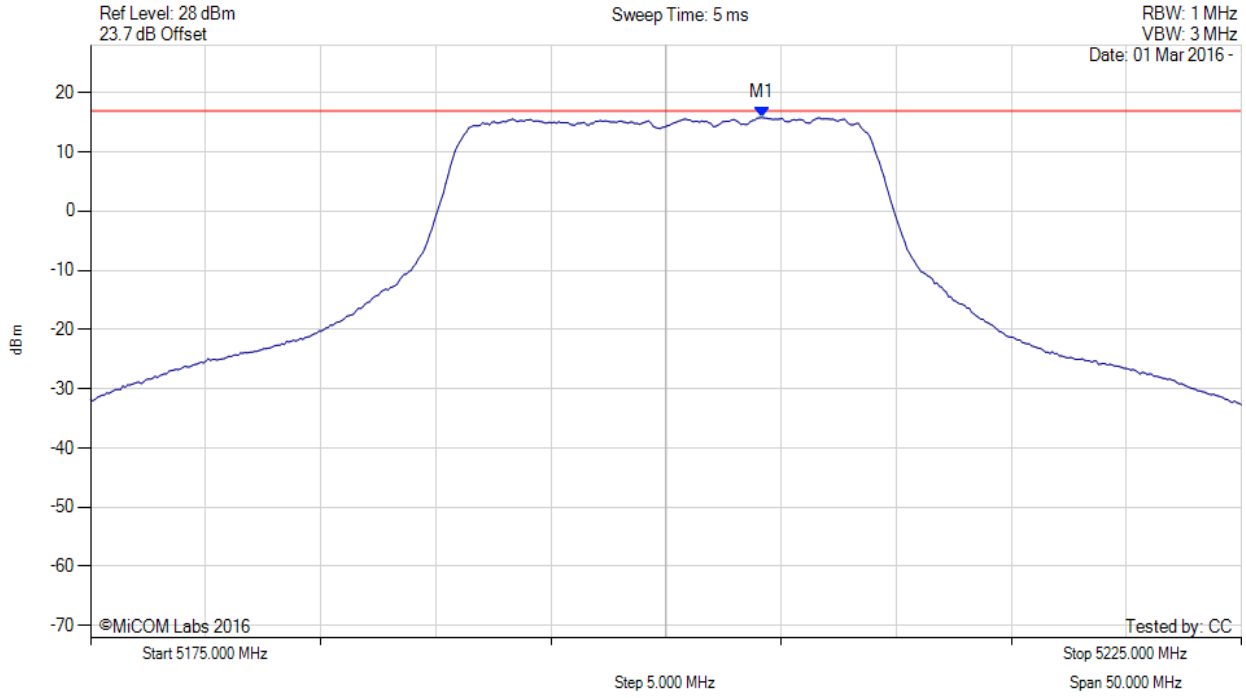


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5204.158 MHz : 11.506 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

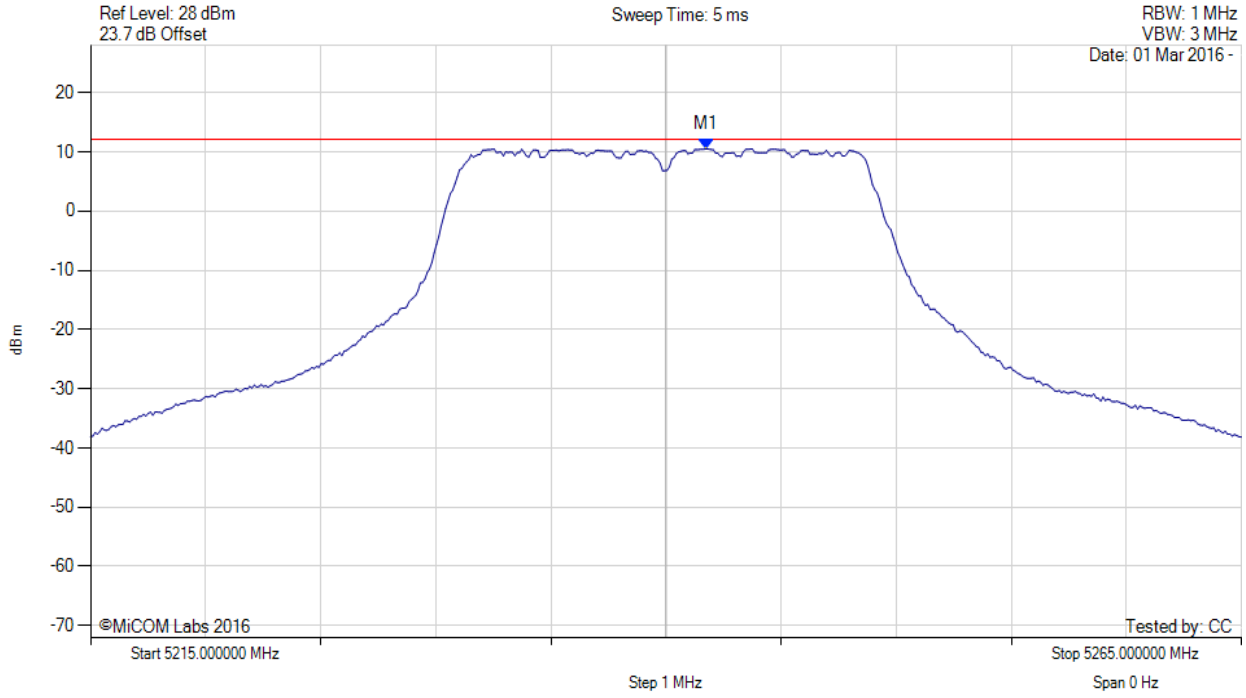


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5204.200 MHz : 15.802 dBm M1 + DCCF : 5204.200 MHz : 15.890 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -1.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

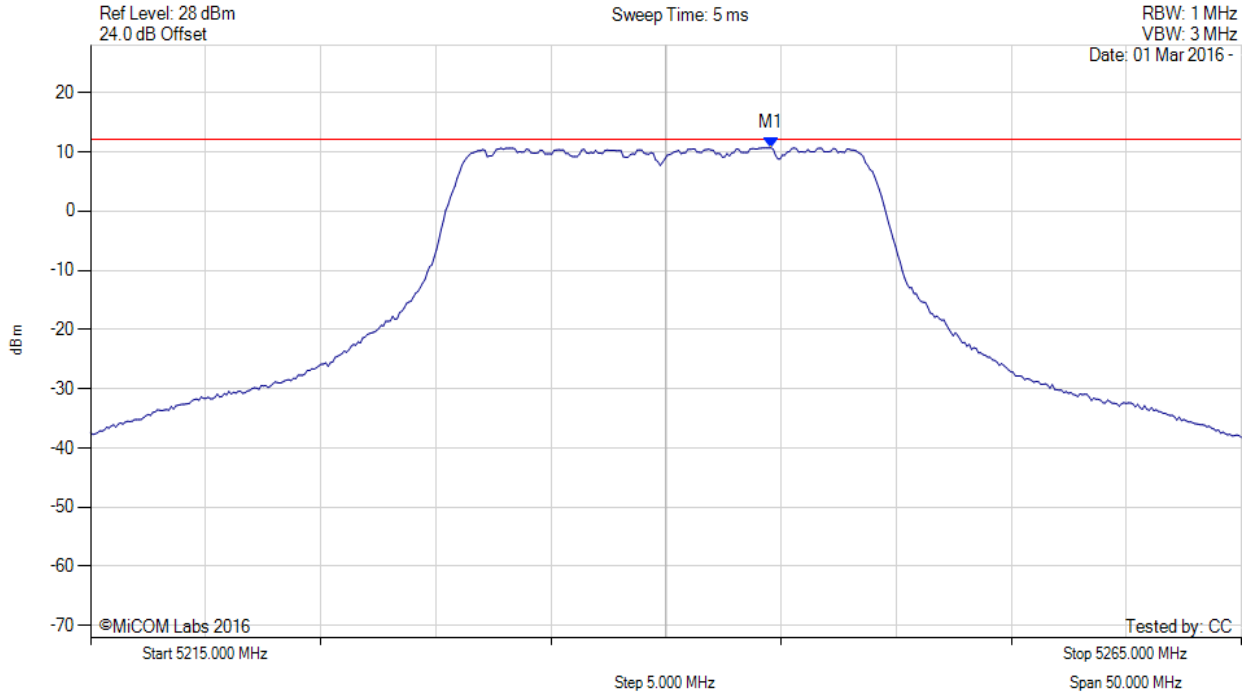


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5241.754 MHz : 10.518 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

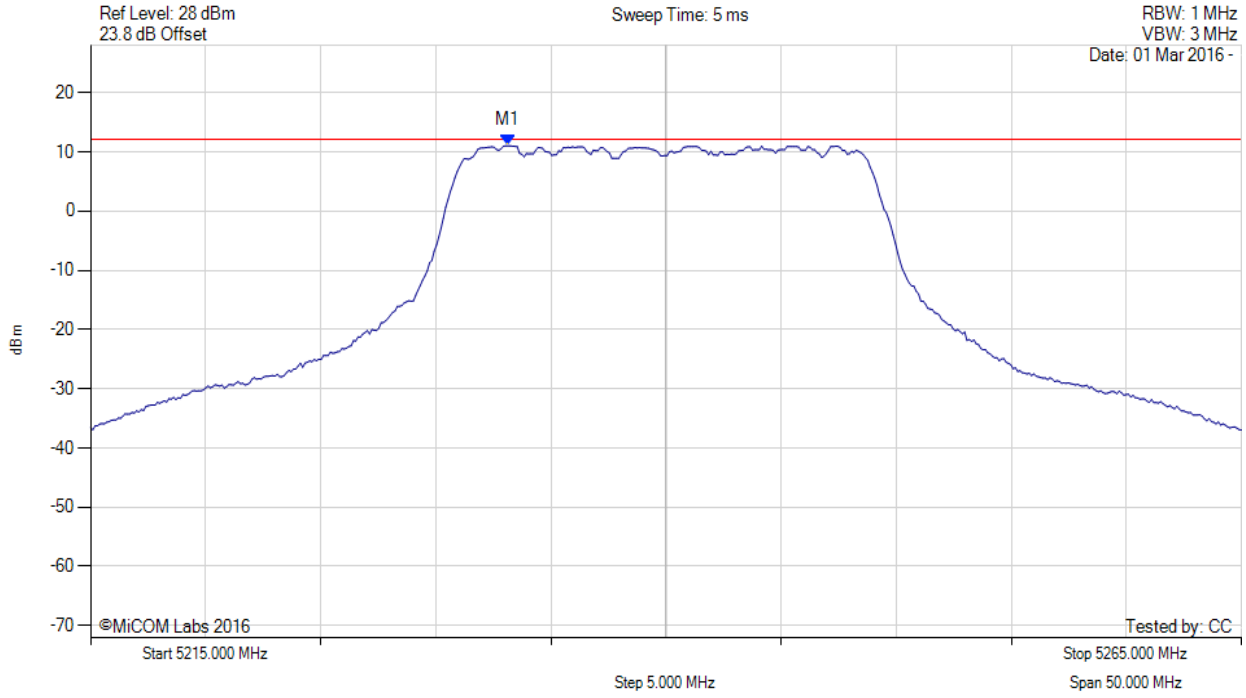


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5244.559 MHz : 10.689 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

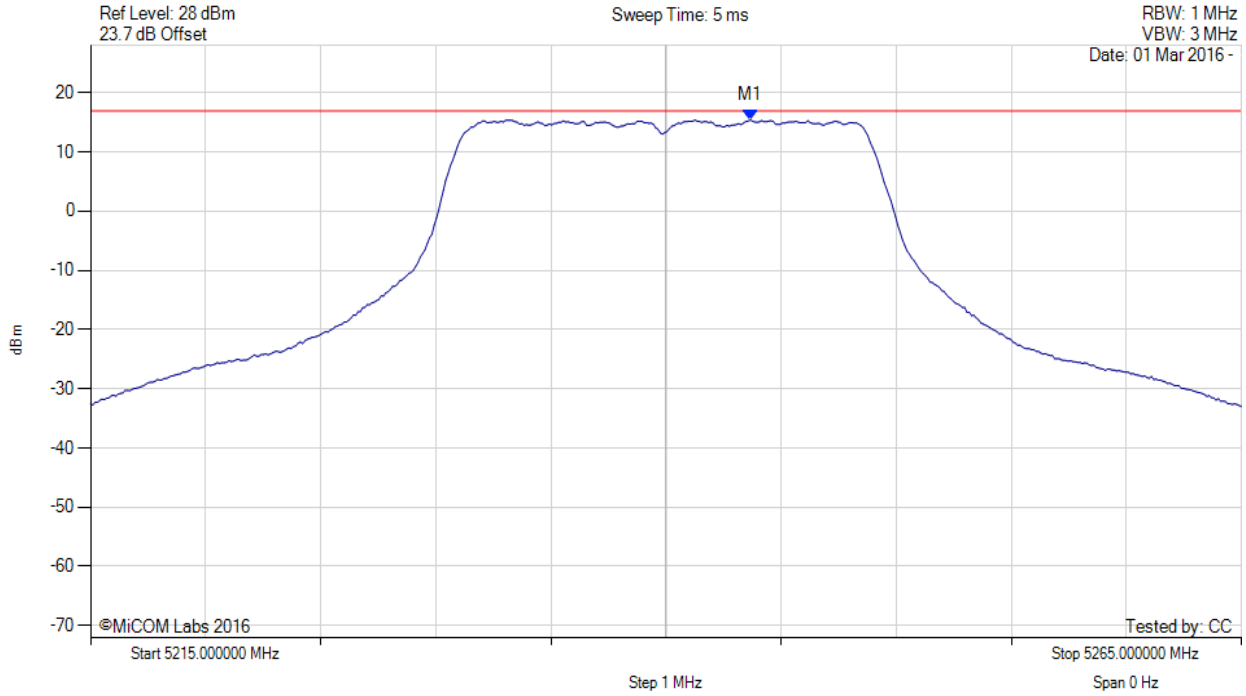


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5233.136 MHz : 11.044 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

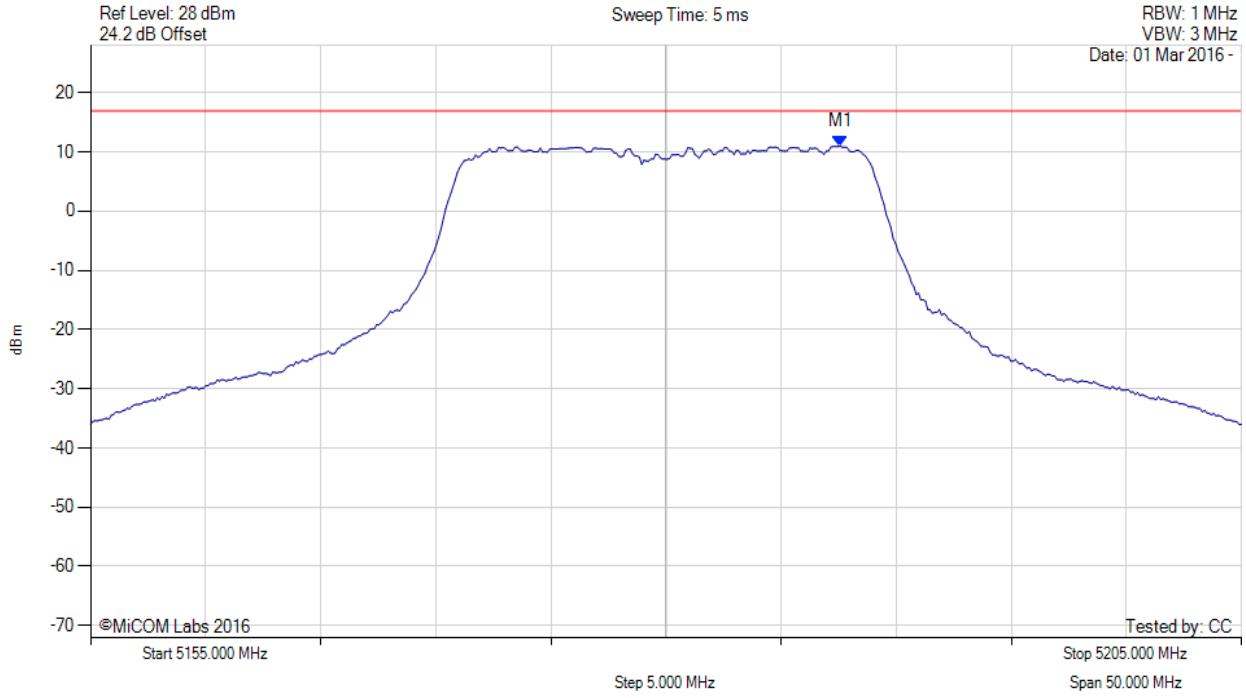


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5243.700 MHz : 15.382 dBm M1 + DCCF : 5243.700 MHz : 15.470 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -1.4 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

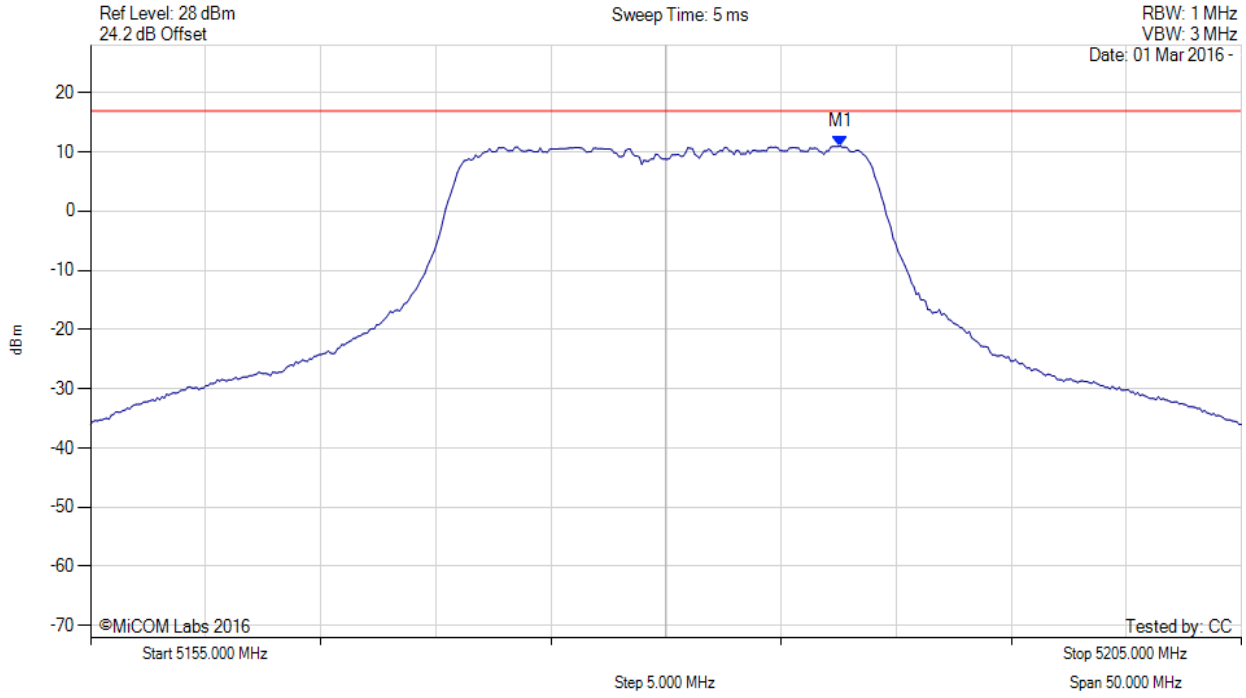


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.565 MHz : 10.975 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5180.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

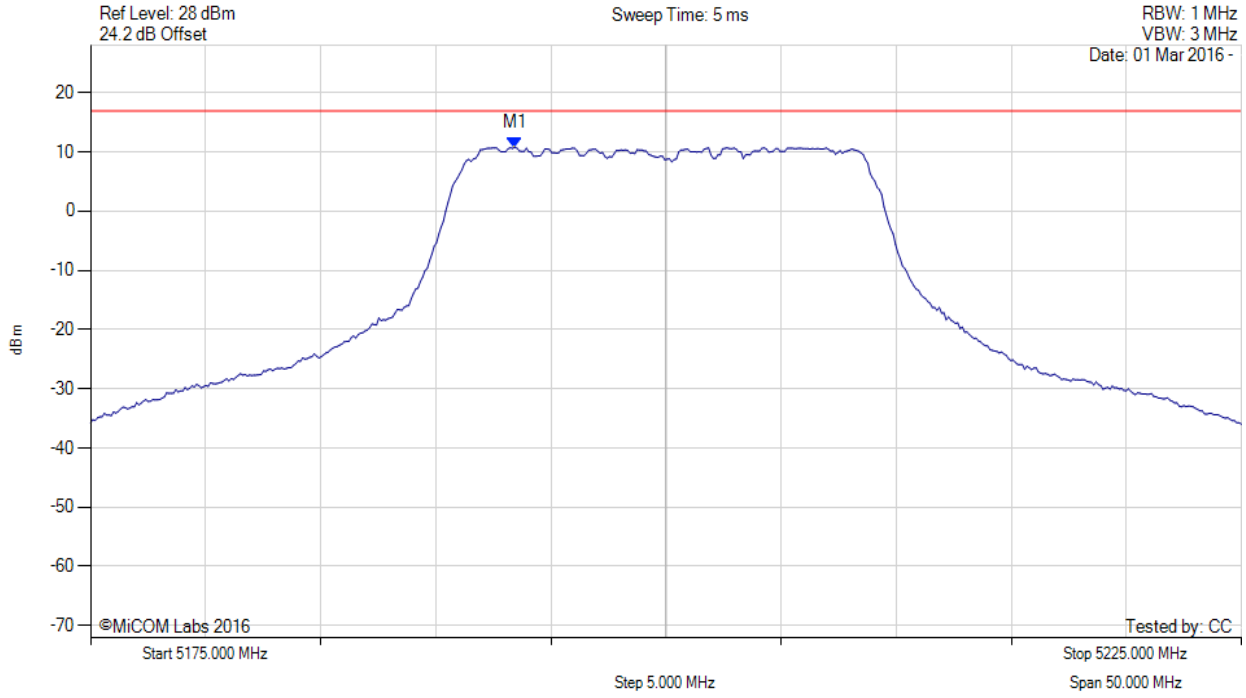


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5187.600 MHz : 10.975 dBm M1 + DCCF : 5187.600 MHz : 11.063 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -5.8 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

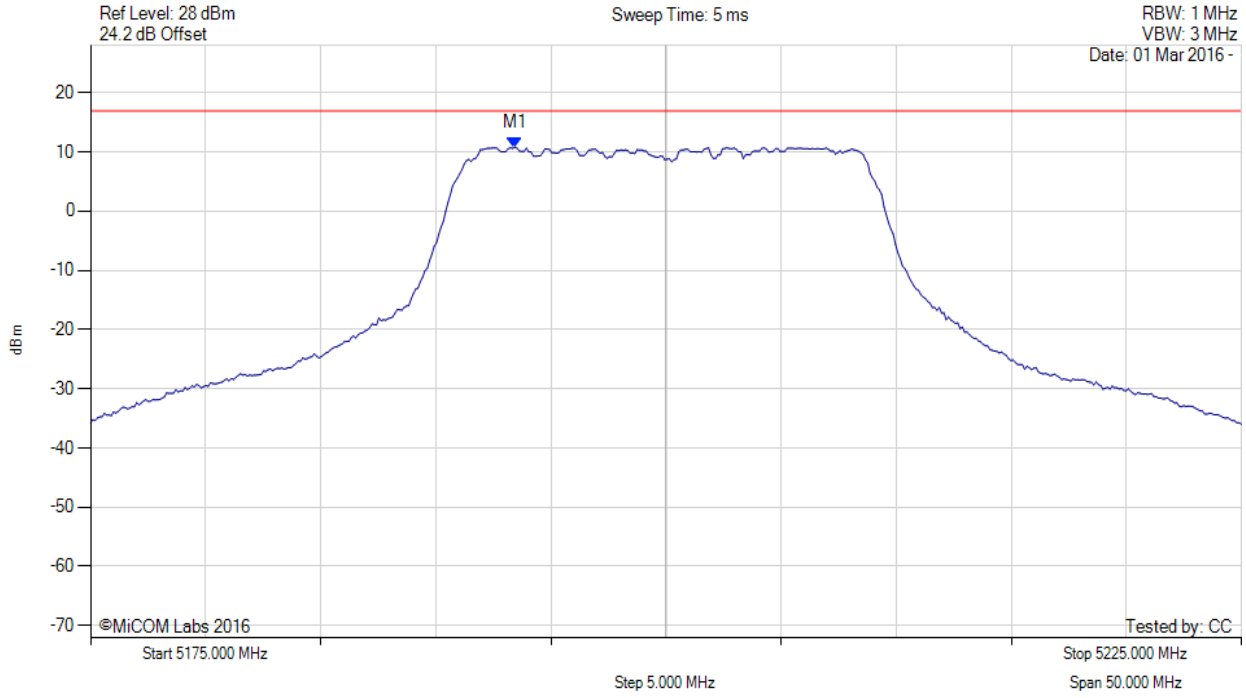


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5193.437 MHz : 10.777 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5200.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

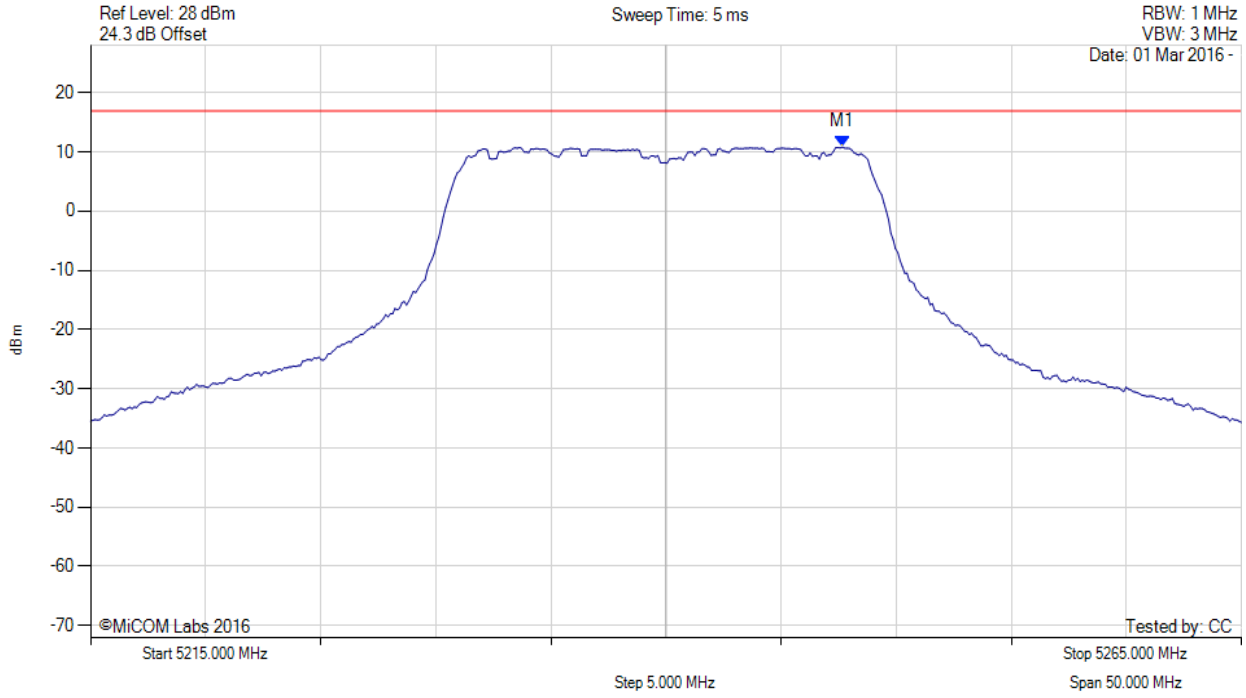


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5193.400 MHz : 10.777 dBm M1 + DCCF : 5193.400 MHz : 10.865 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -6.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

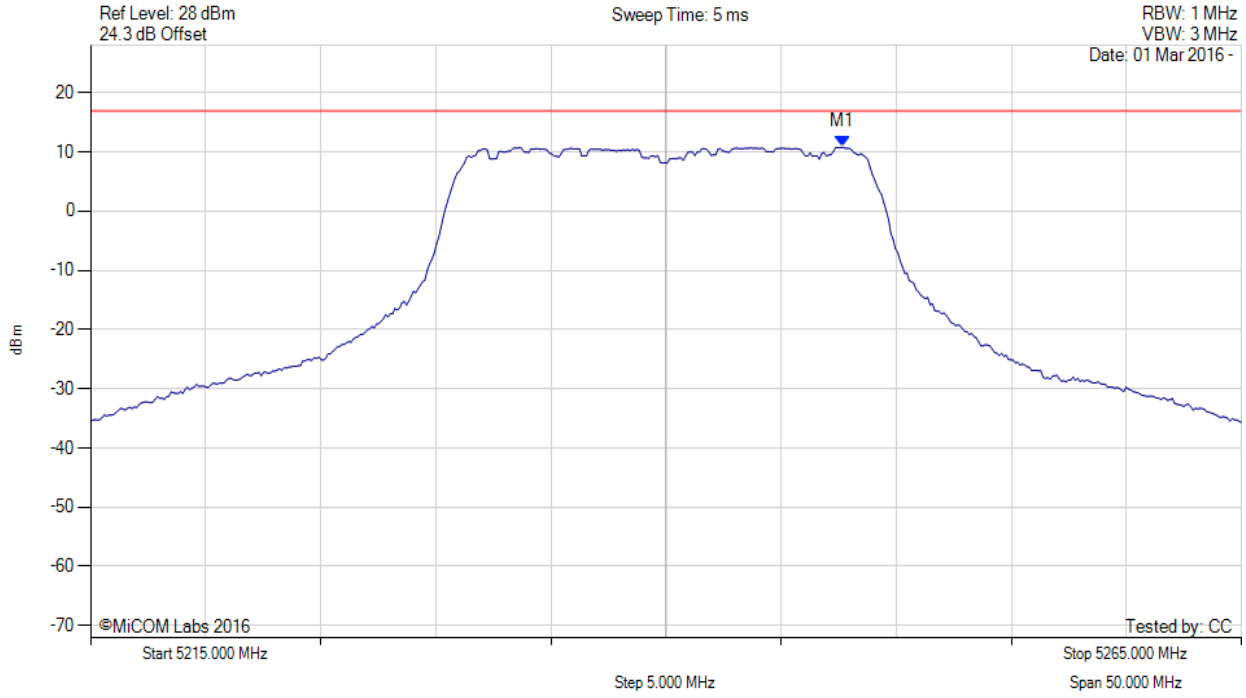


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.665 MHz : 10.813 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5240.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5247.700 MHz : 10.813 dBm M1 + DCCF : 5247.700 MHz : 10.901 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 16.9 dBm Margin: -6.0 dB

back to matrix

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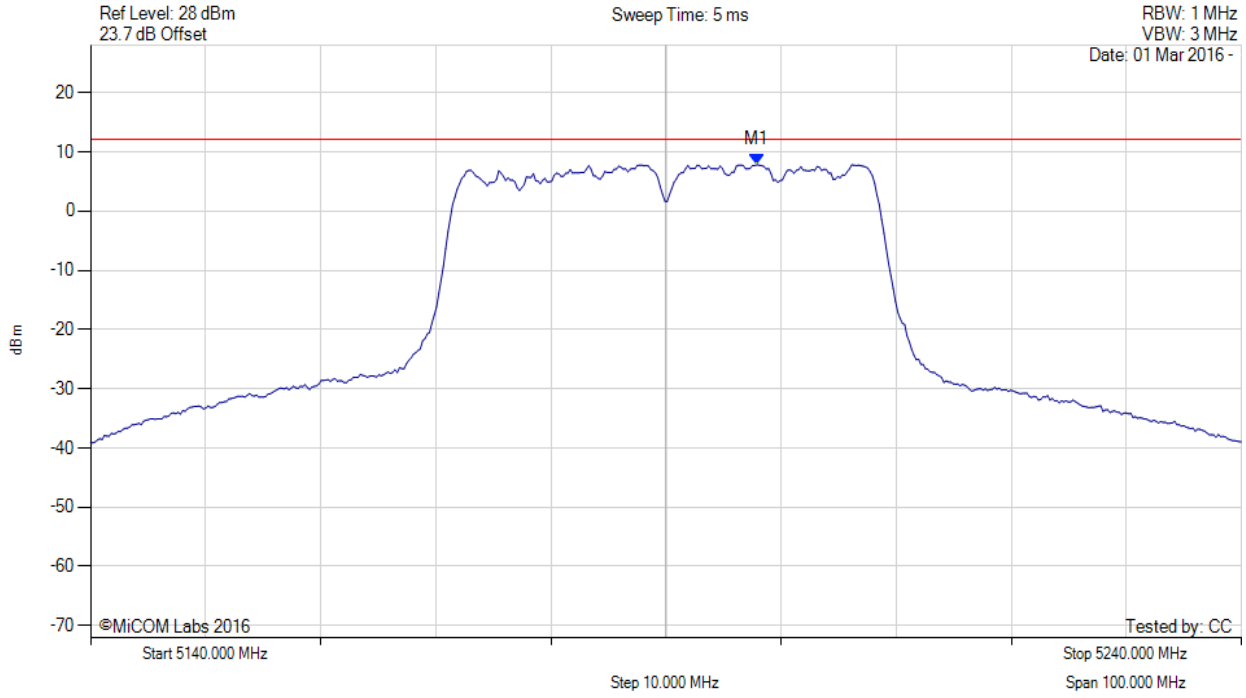
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

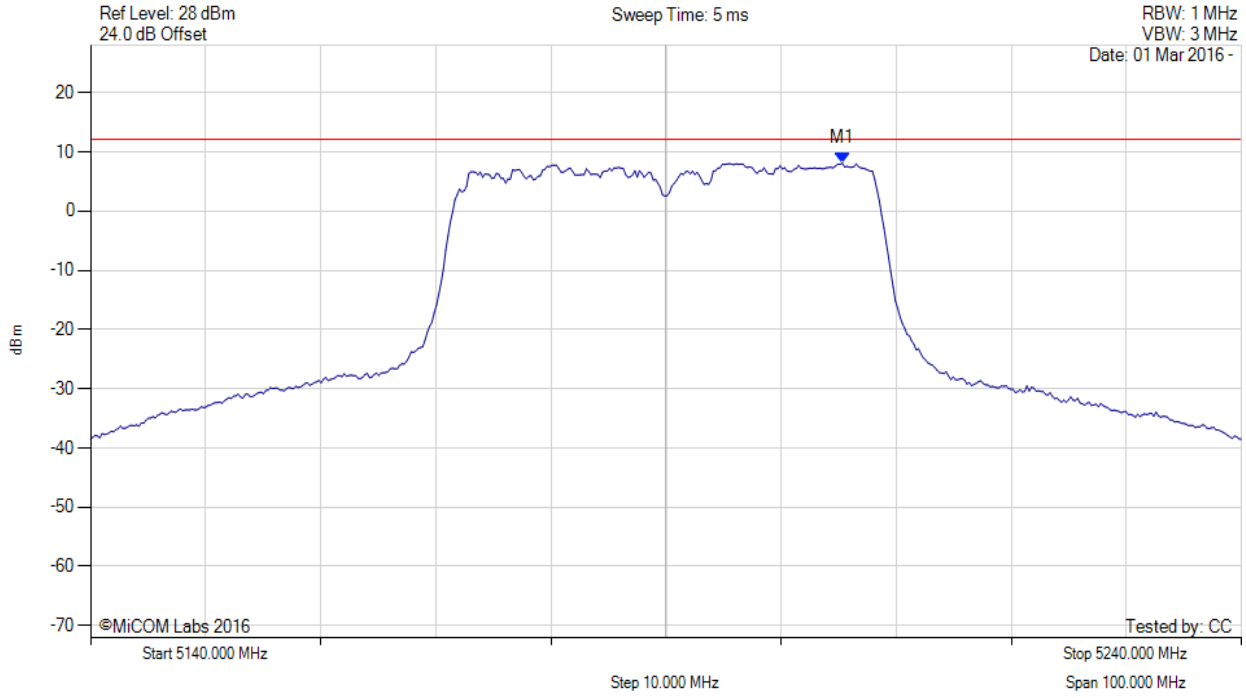


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5197.916 MHz : 7.838 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

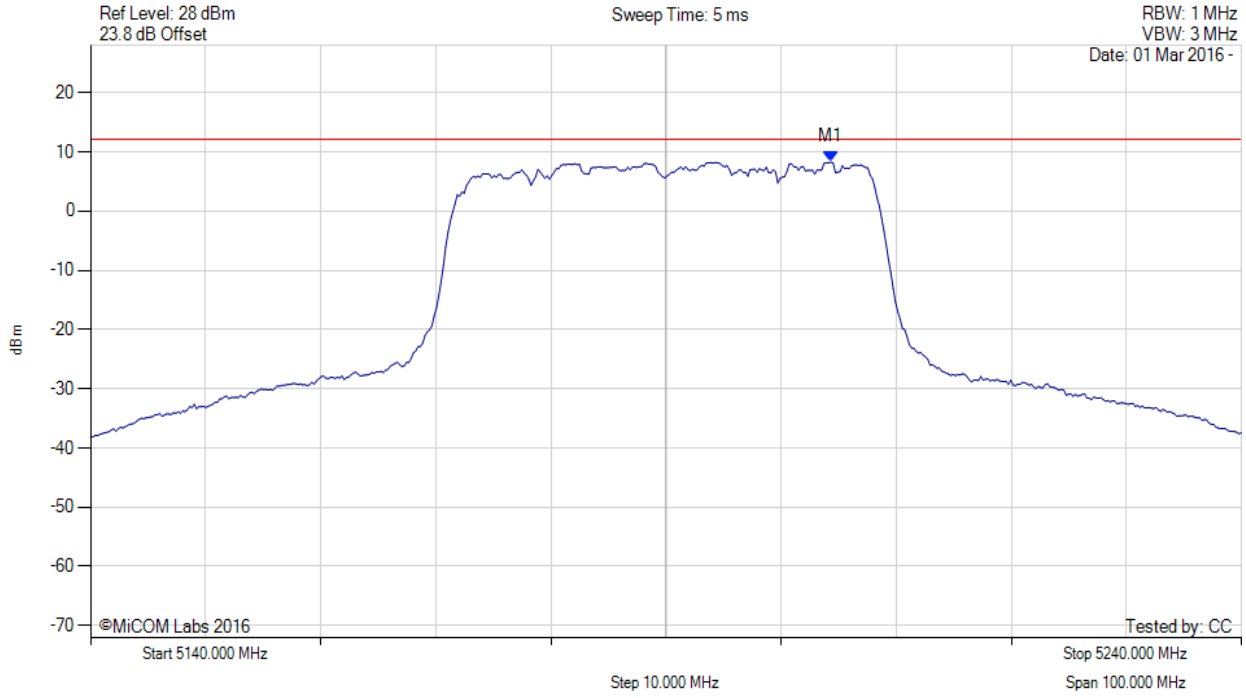


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5205.331 MHz : 8.090 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

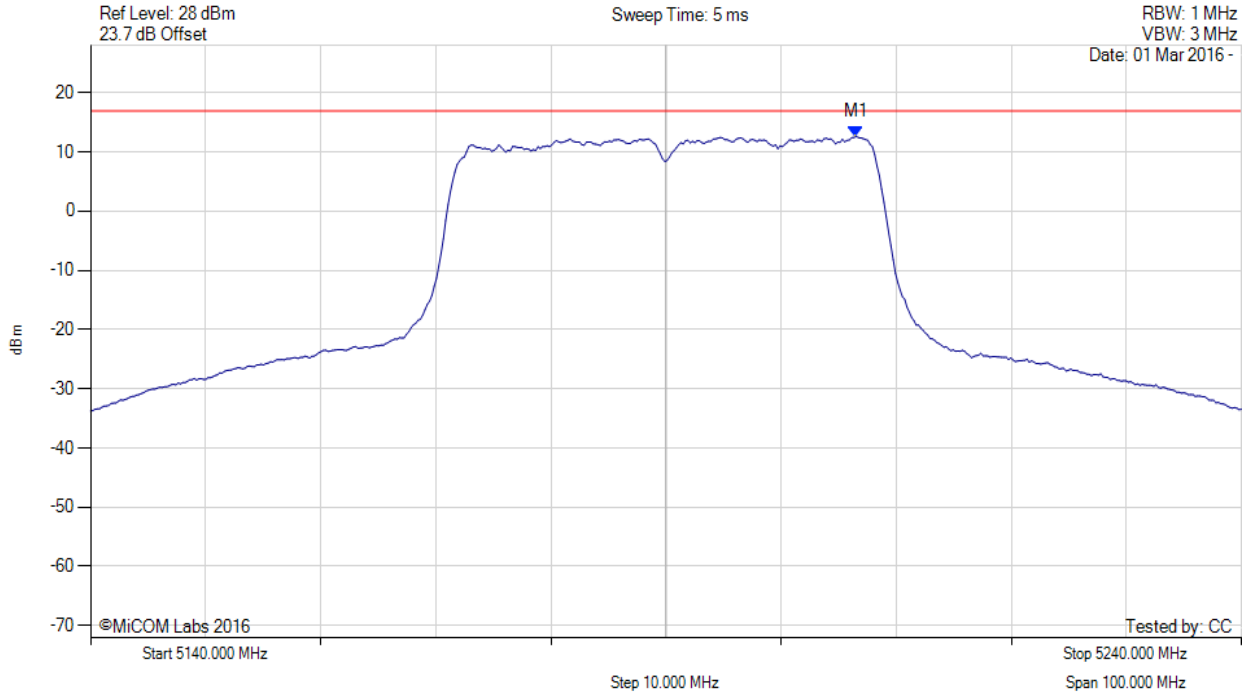


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5204.329 MHz : 8.272 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

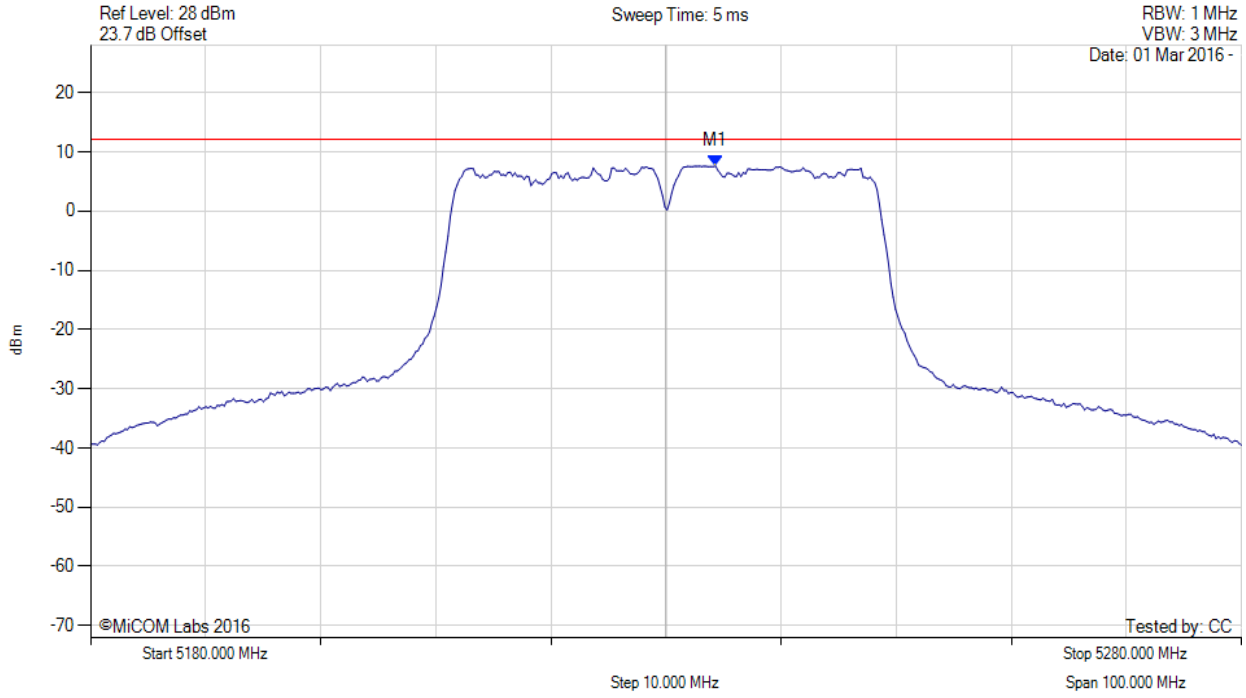


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5206.500 MHz : 12.607 dBm M1 + DCCF : 5206.500 MHz : 12.784 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 16.9 dBm Margin: -4.1 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

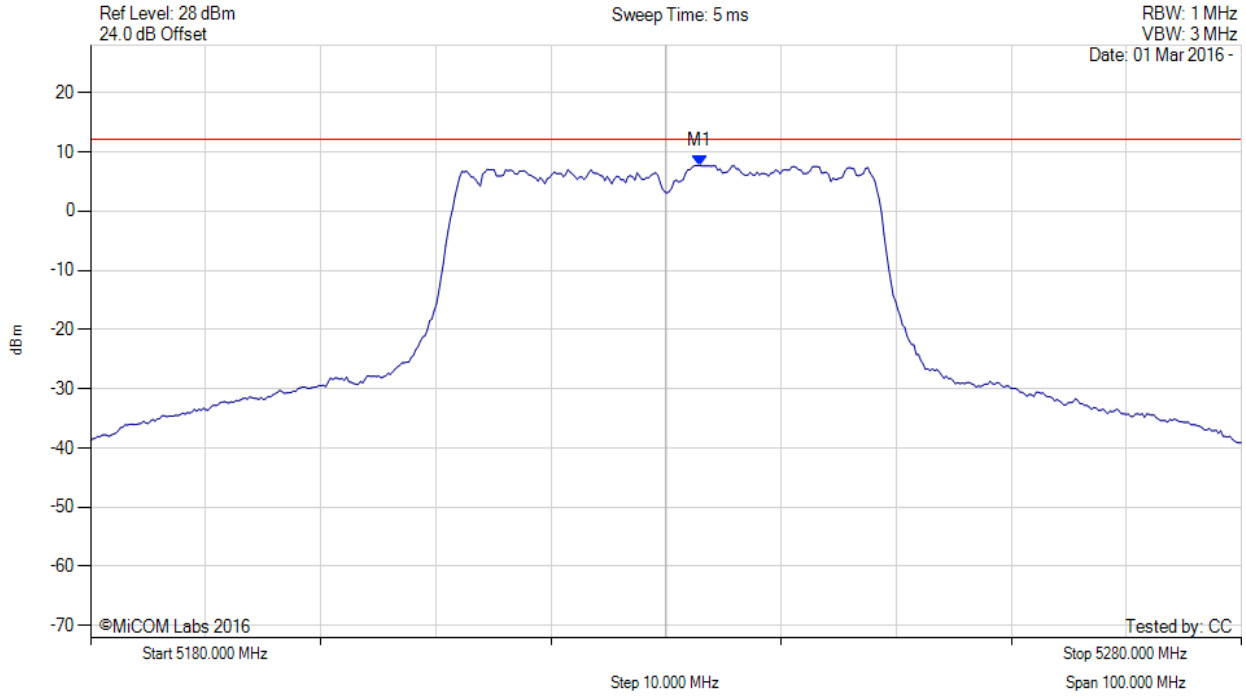


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5234.309 MHz : 7.610 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

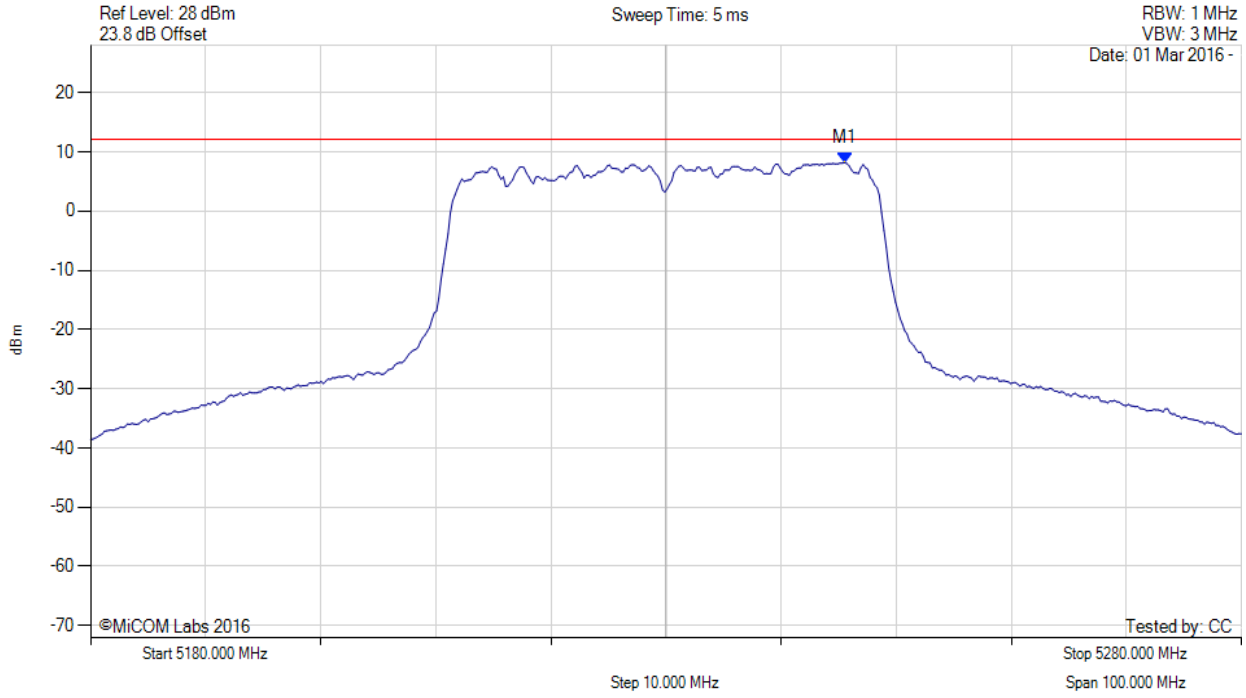


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5232.906 MHz : 7.702 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

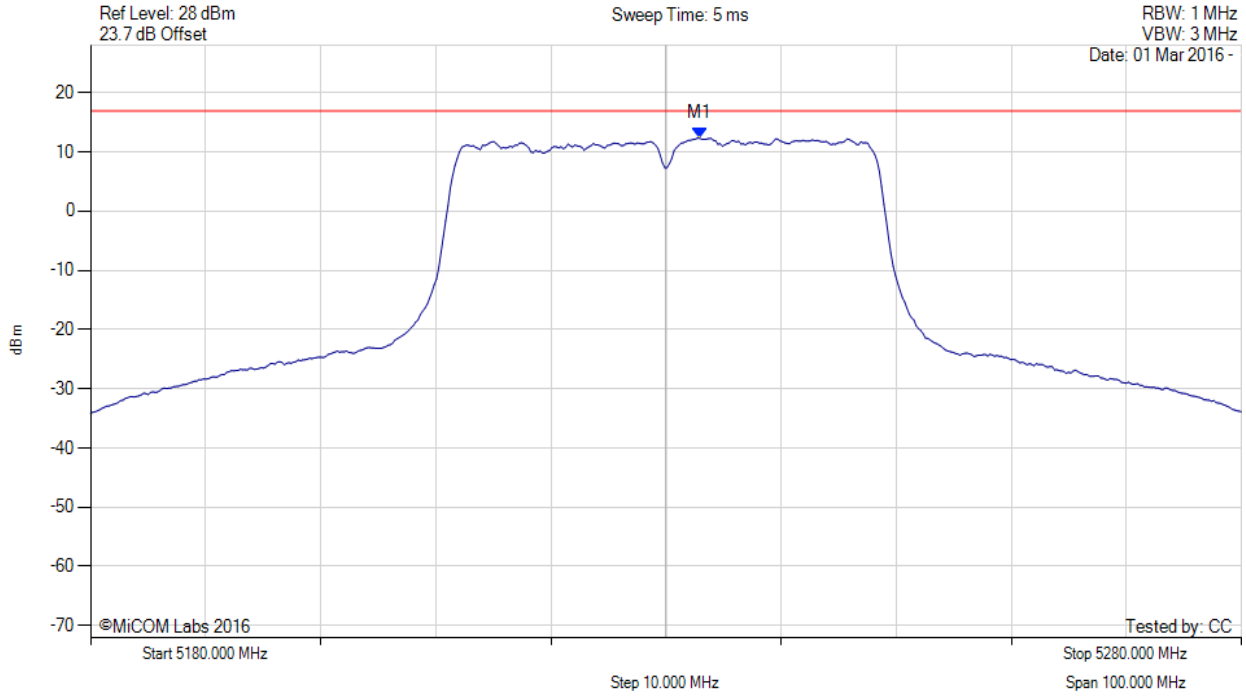


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.531 MHz : 8.155 dBm	Limit: ≤ 12.130 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5232.900 MHz : 12.340 dBm M1 + DCCF : 5232.900 MHz : 12.517 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 16.9 dBm Margin: -4.4 dB

back to matrix

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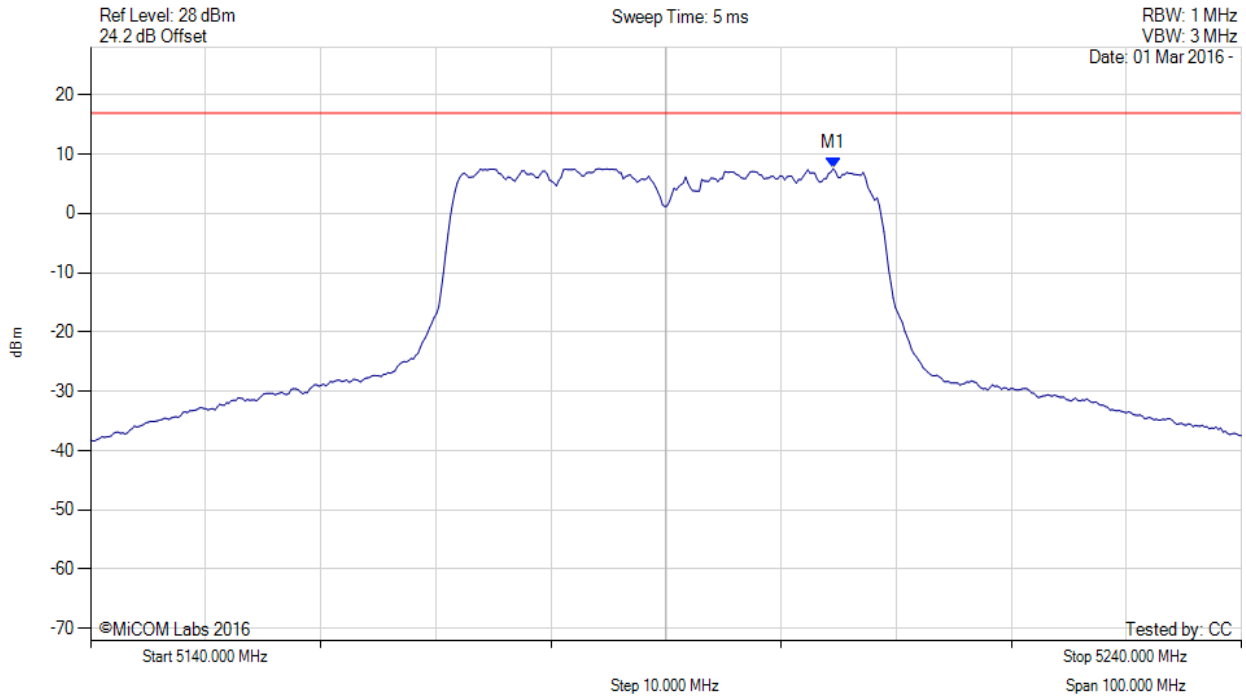
POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

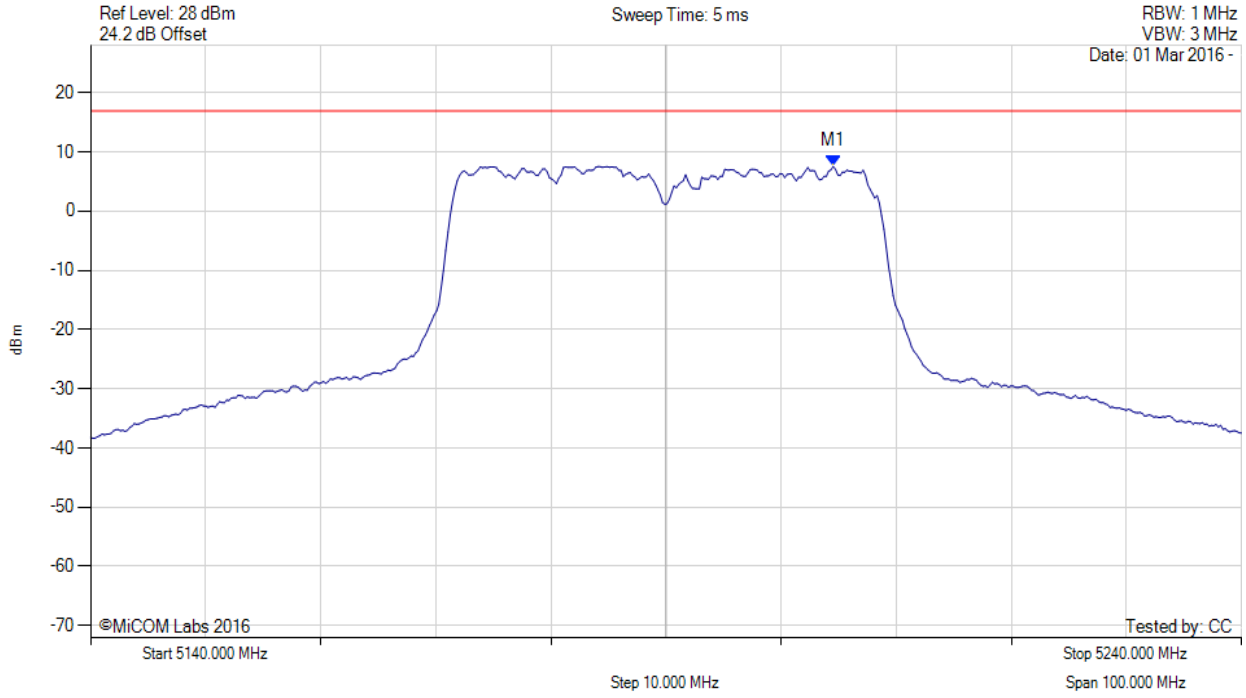


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5204.529 MHz : 7.546 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5190.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

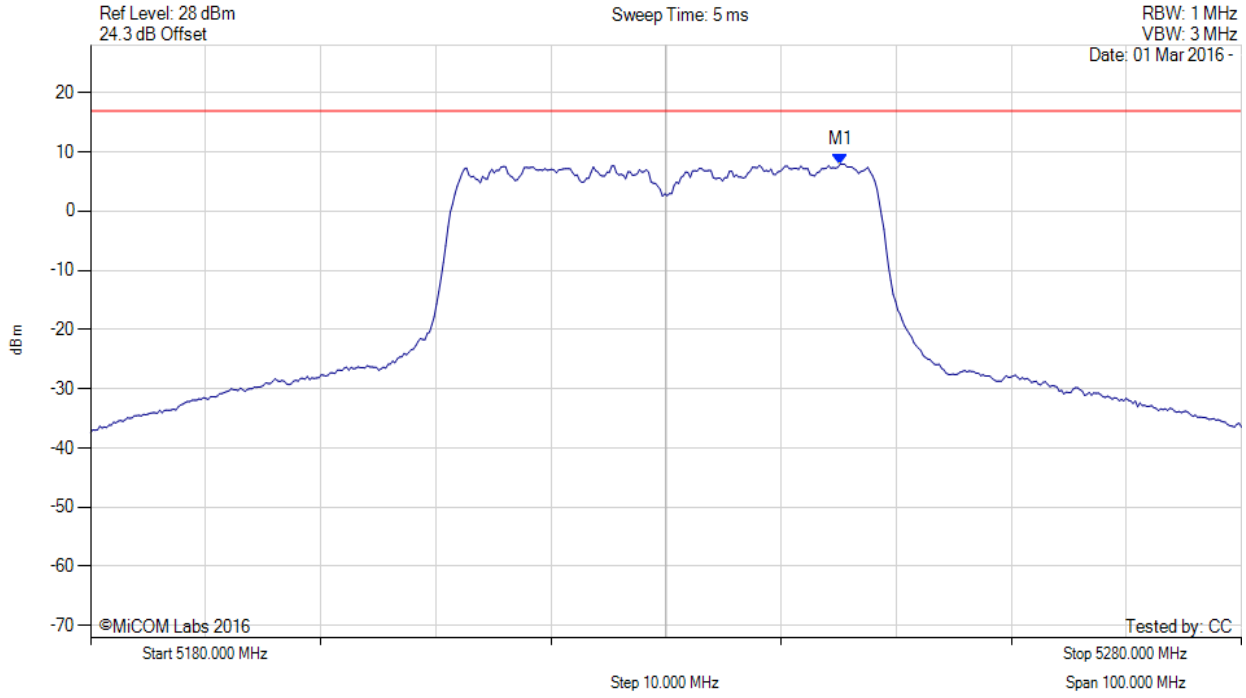


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5204.500 MHz : 7.546 dBm M1 + DCCF : 5204.500 MHz : 7.723 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 16.9 dBm Margin: -9.2 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

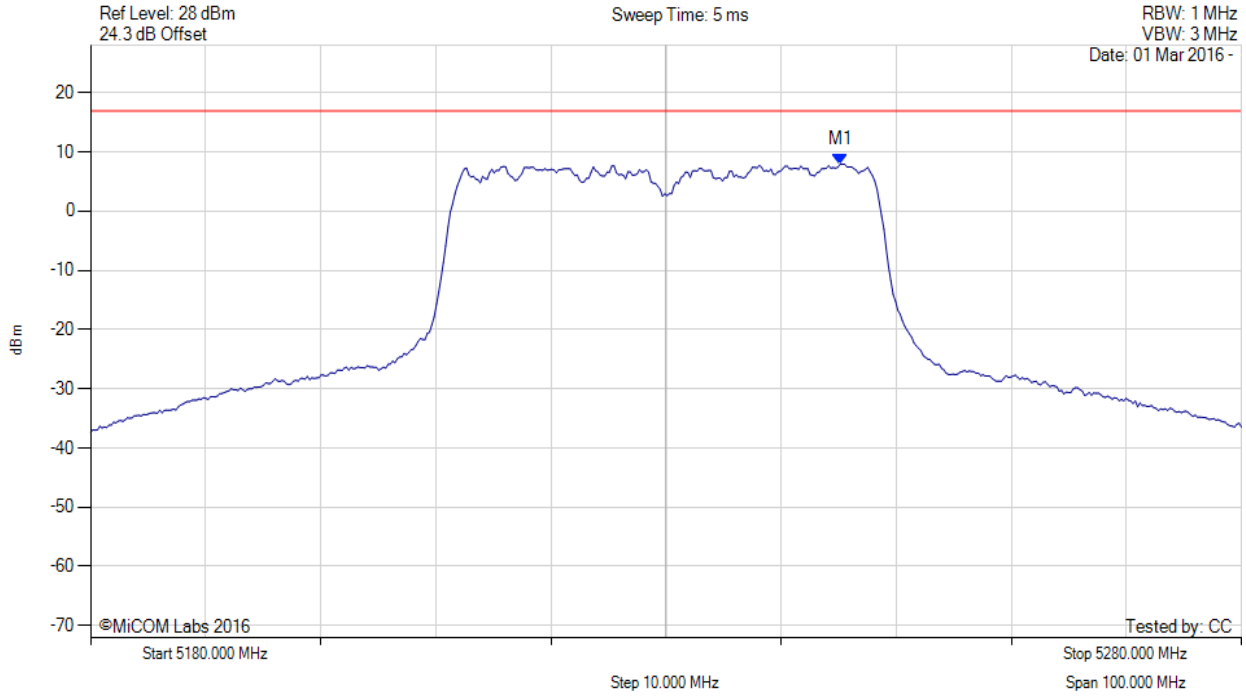


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.130 MHz : 7.929 dBm	Limit: ≤ 16.900 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5230.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5245.100 MHz : 7.929 dBm M1 + DCCF : 5245.100 MHz : 8.106 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 16.9 dBm Margin: -8.8 dB

back to matrix

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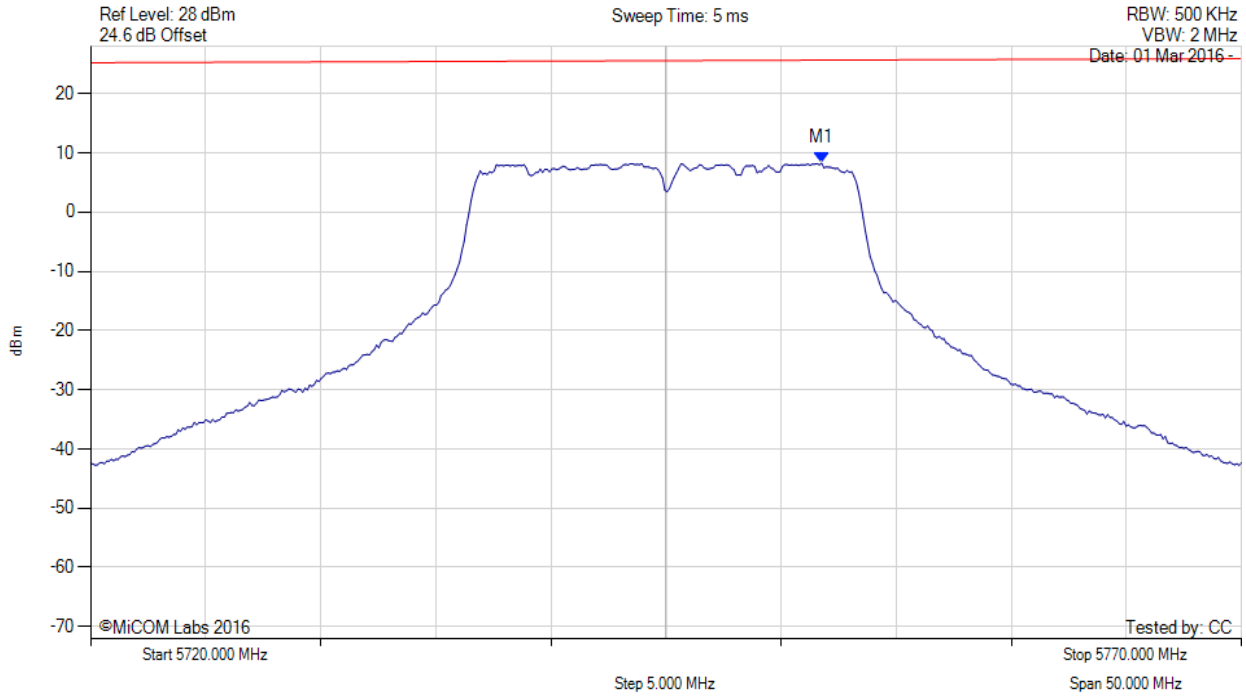
POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



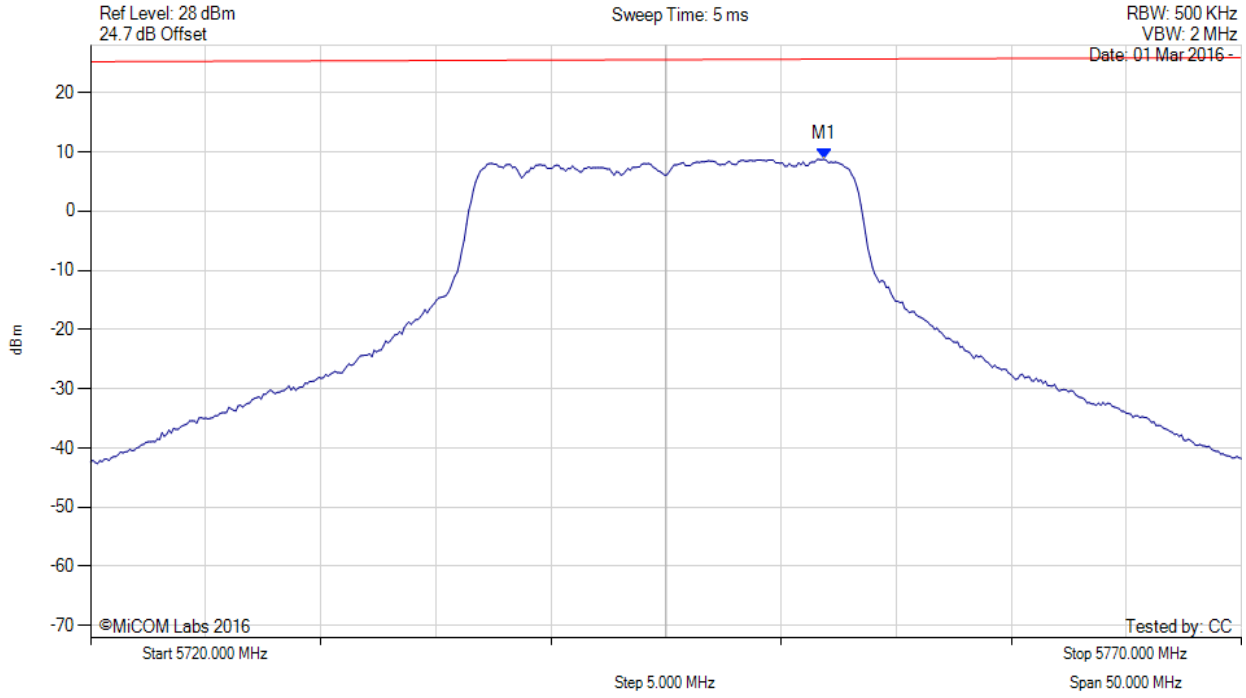
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.764 MHz : 8.273 dBm	Limit: ≤ 25.230 dBm

back to matrix

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

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

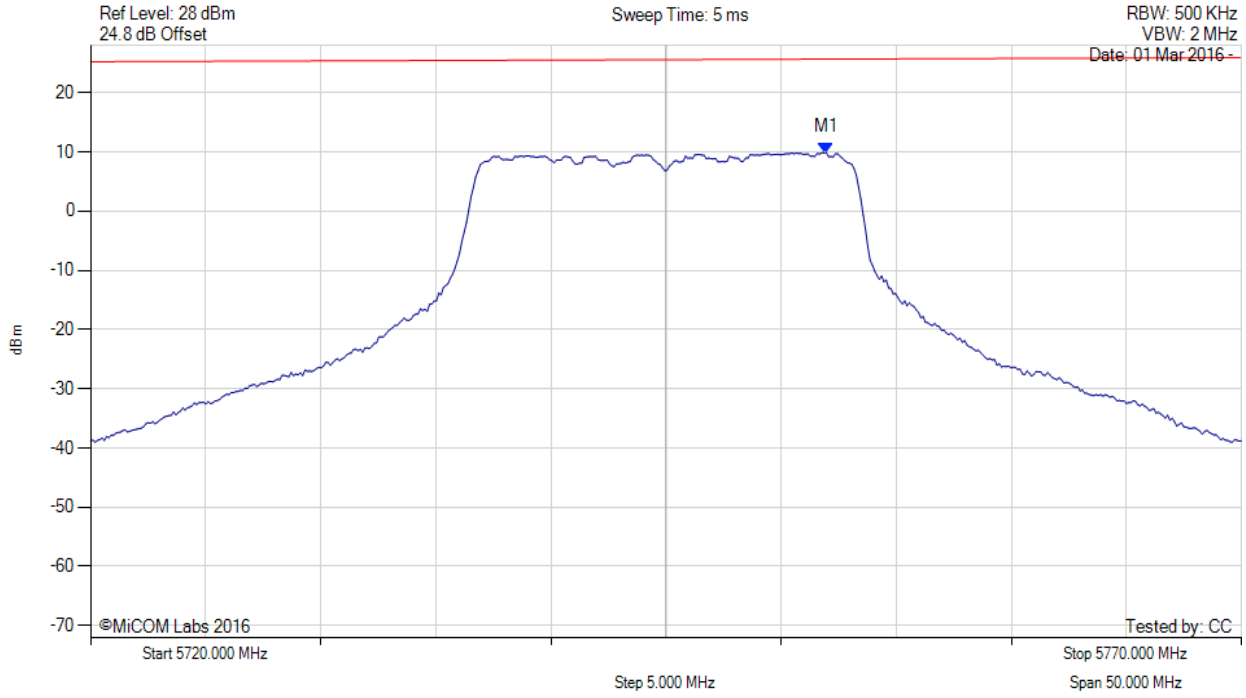


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.864 MHz : 8.757 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

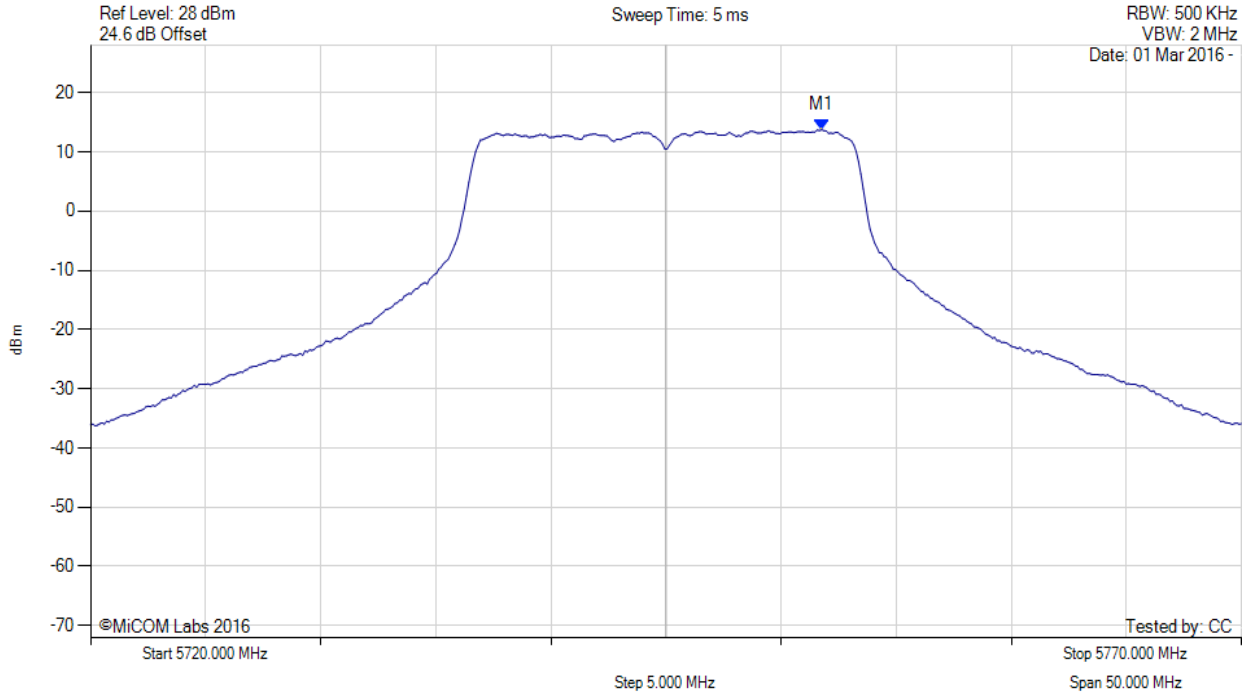


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.964 MHz : 9.851 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

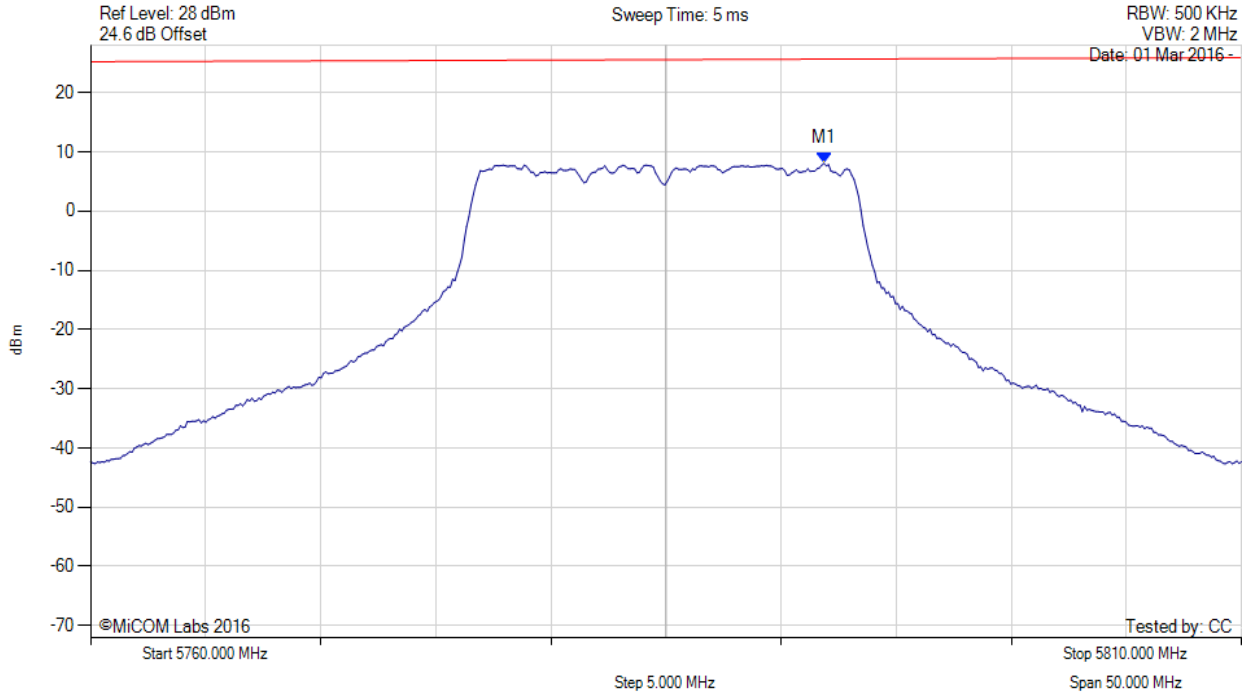


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.800 MHz : 13.740 dBm M1 + DCCF : 5751.800 MHz : 13.784 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -16.2 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

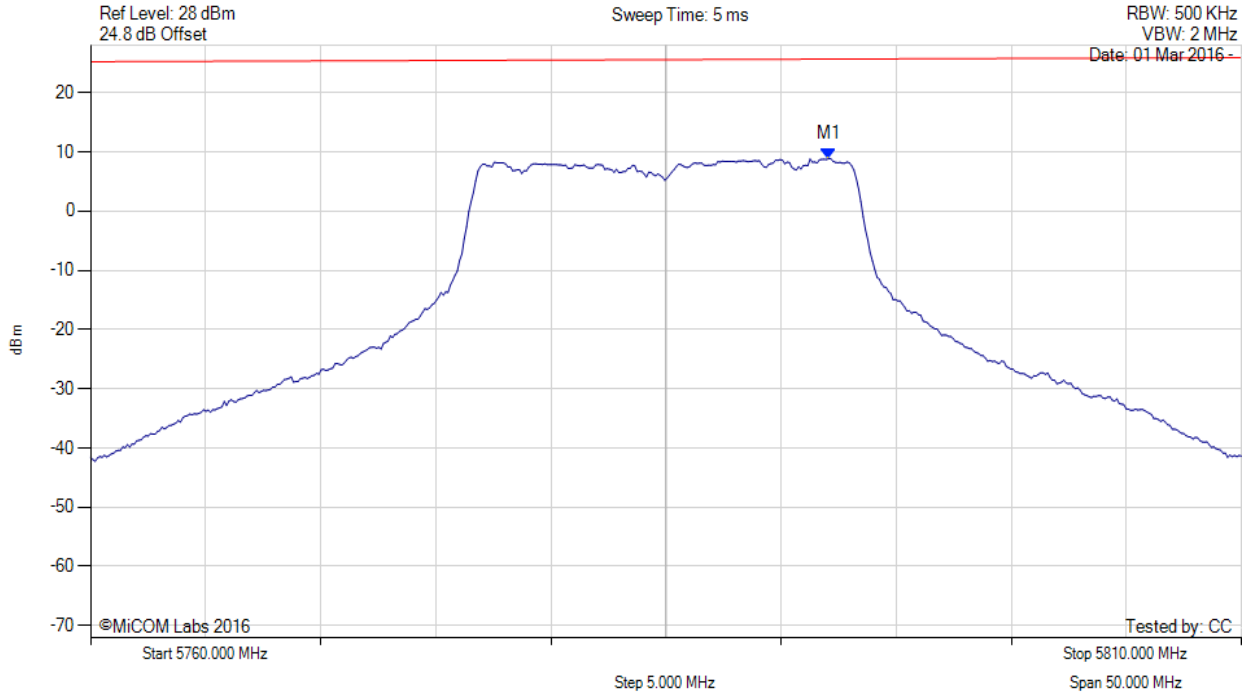


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.864 MHz : 8.065 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

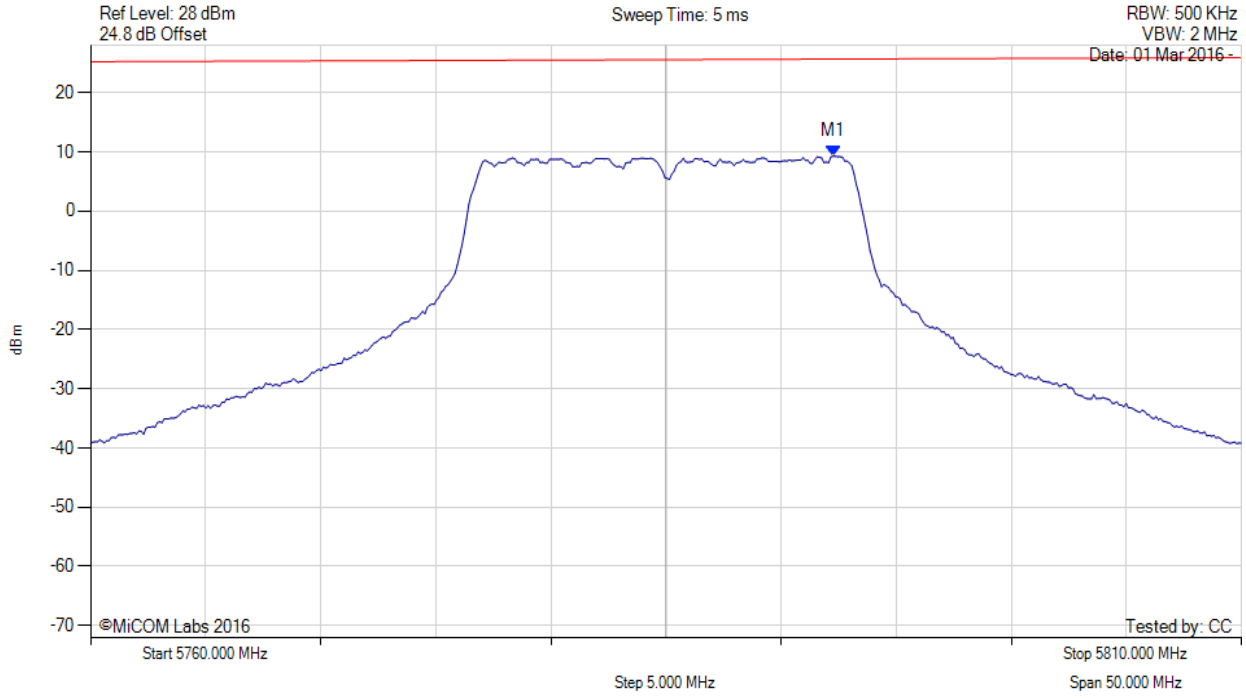


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.064 MHz : 8.846 dBm	Channel Frequency: 5785.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

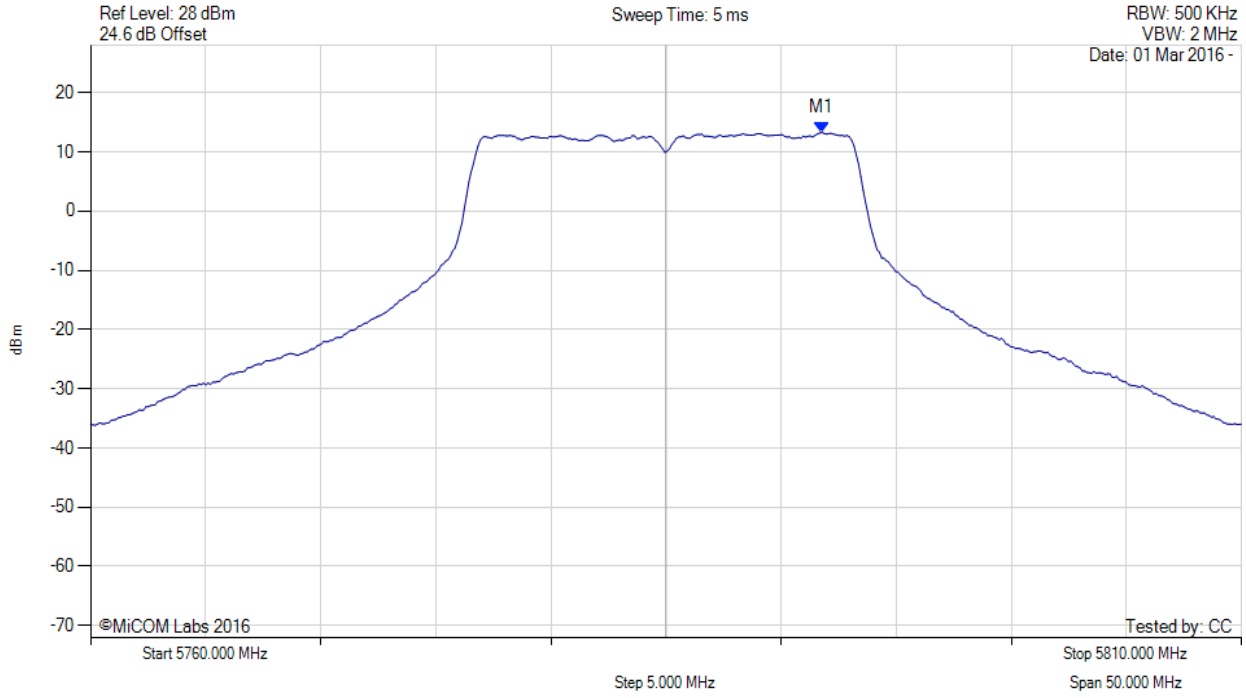


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.265 MHz : 9.280 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

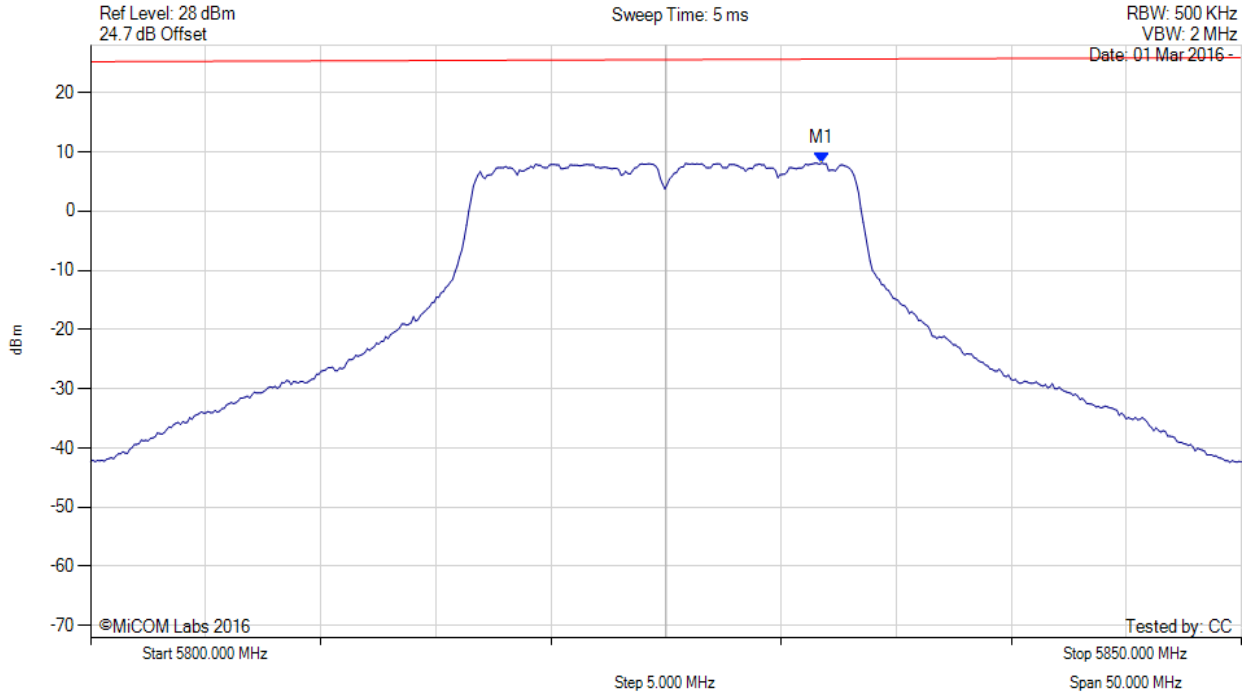


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5791.800 MHz : 13.301 dBm M1 + DCCF : 5791.800 MHz : 13.345 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -16.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

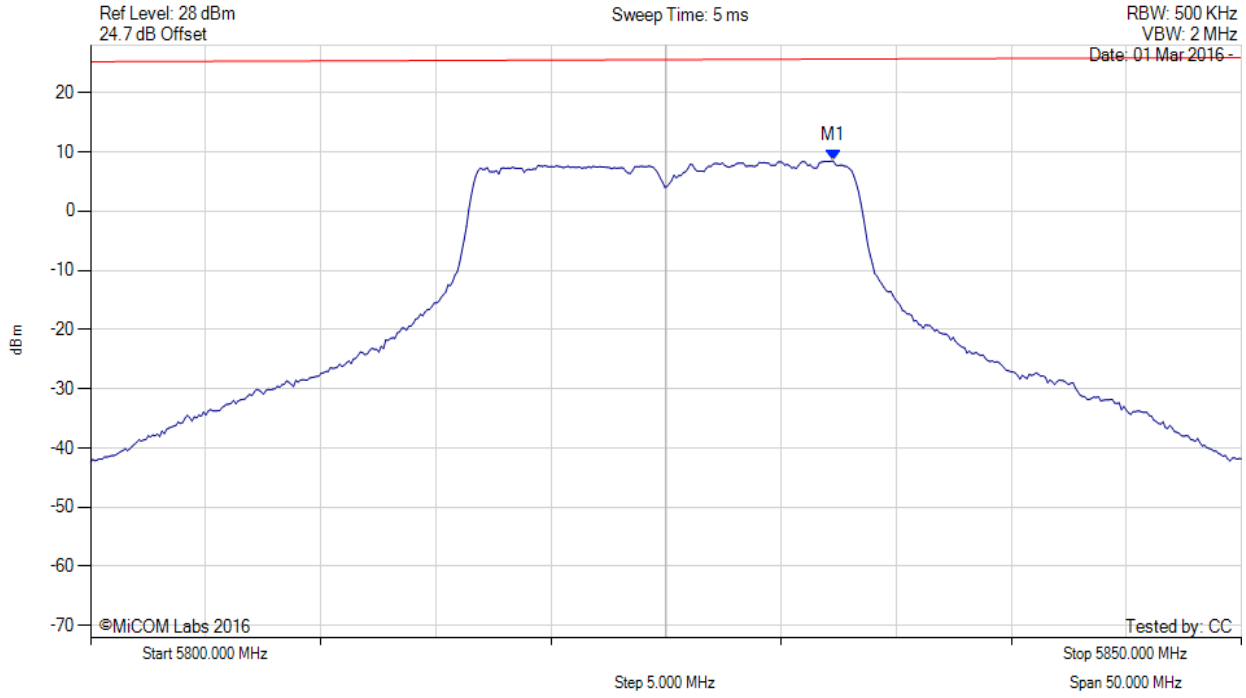


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5831.764 MHz : 8.102 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

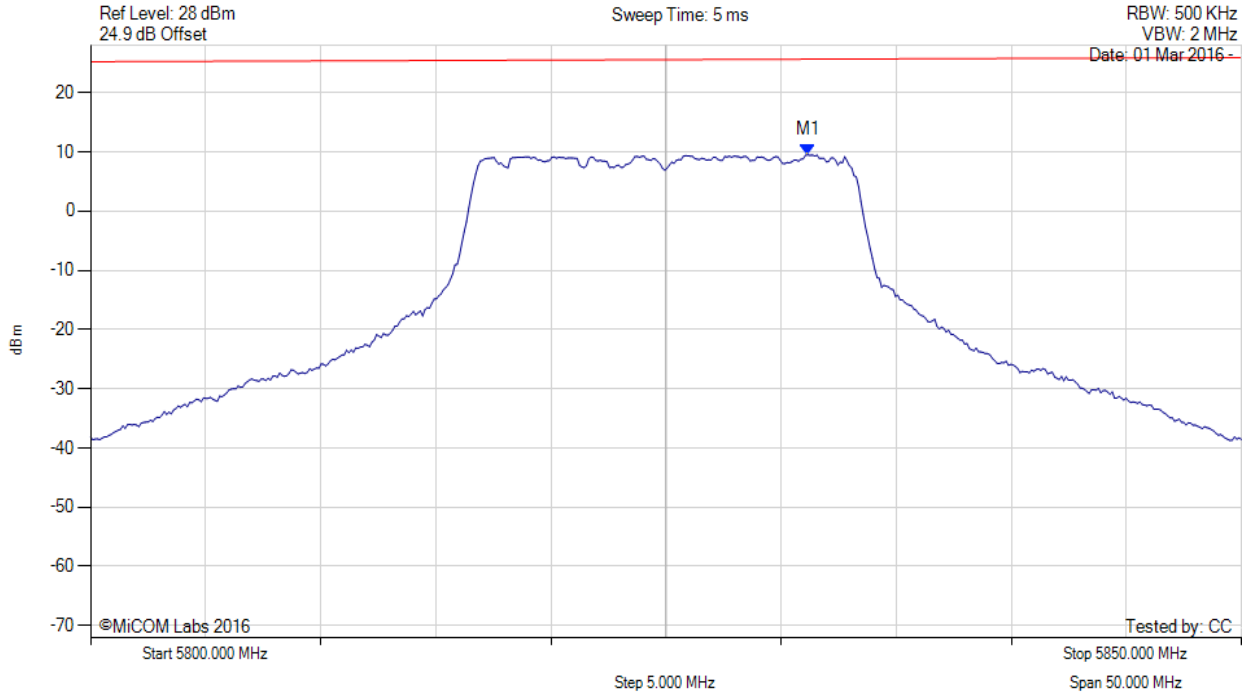


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.265 MHz : 8.473 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

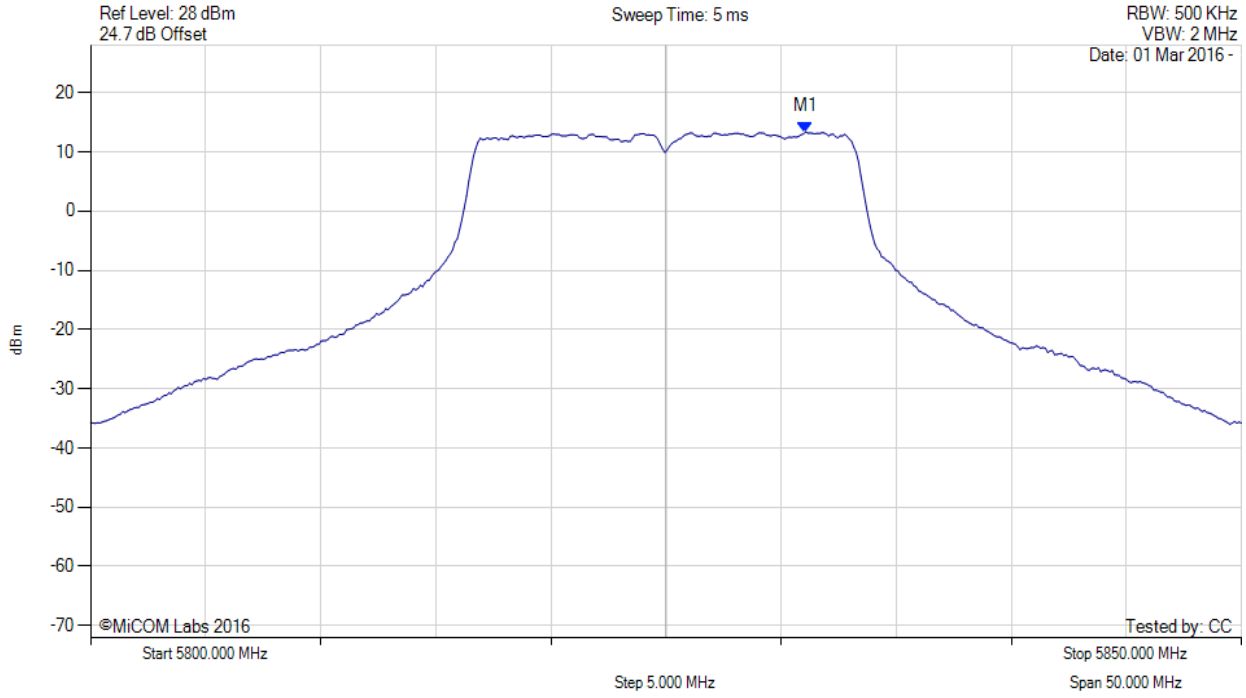


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5831.162 MHz : 9.507 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

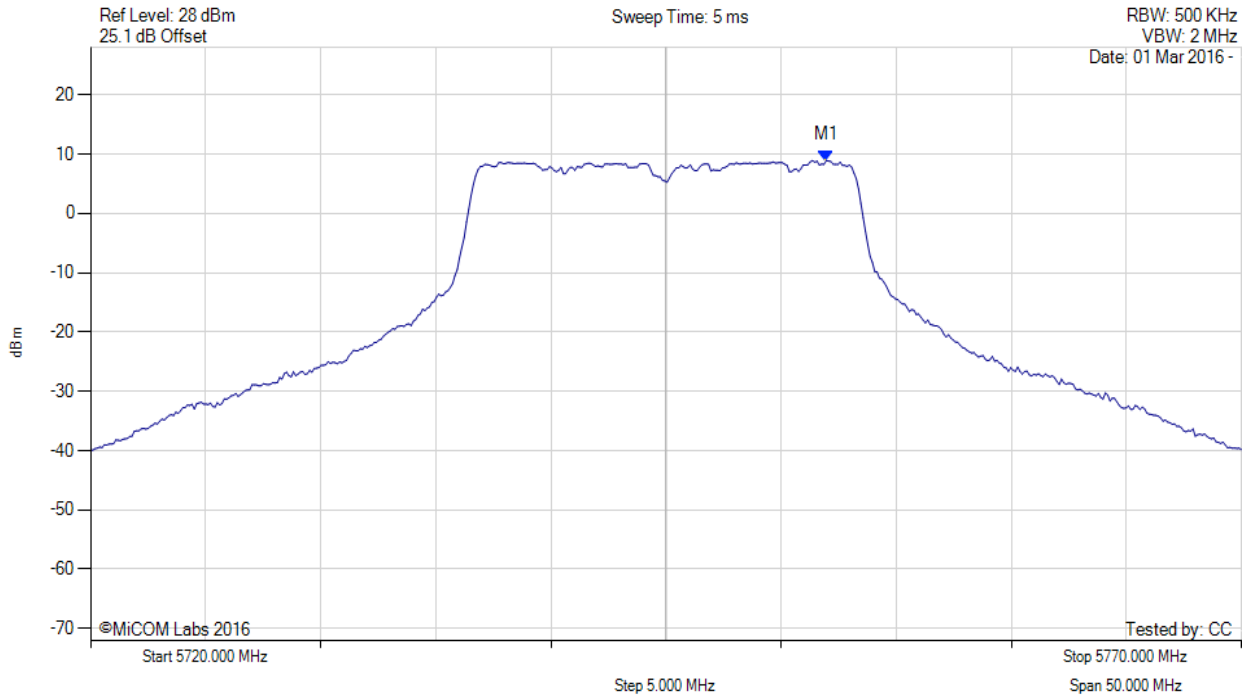


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5831.100 MHz : 13.364 dBm M1 + DCCF : 5831.100 MHz : 13.408 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -16.6 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

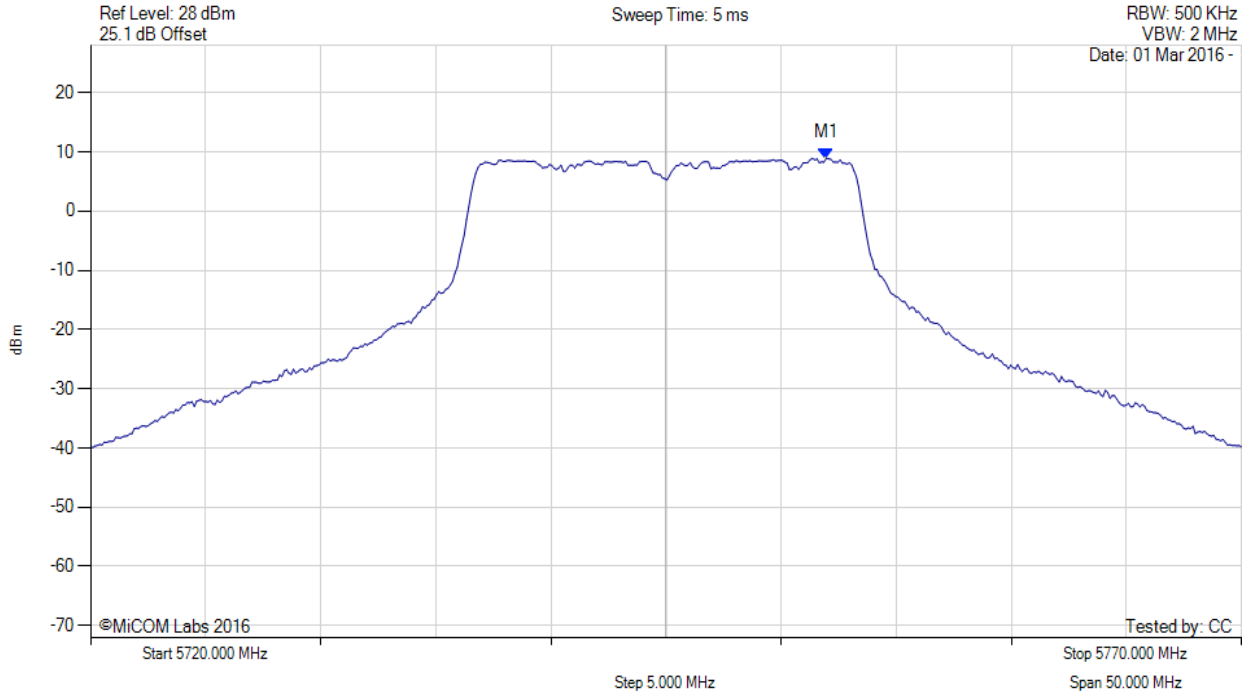


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5751.964 MHz : 8.928 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

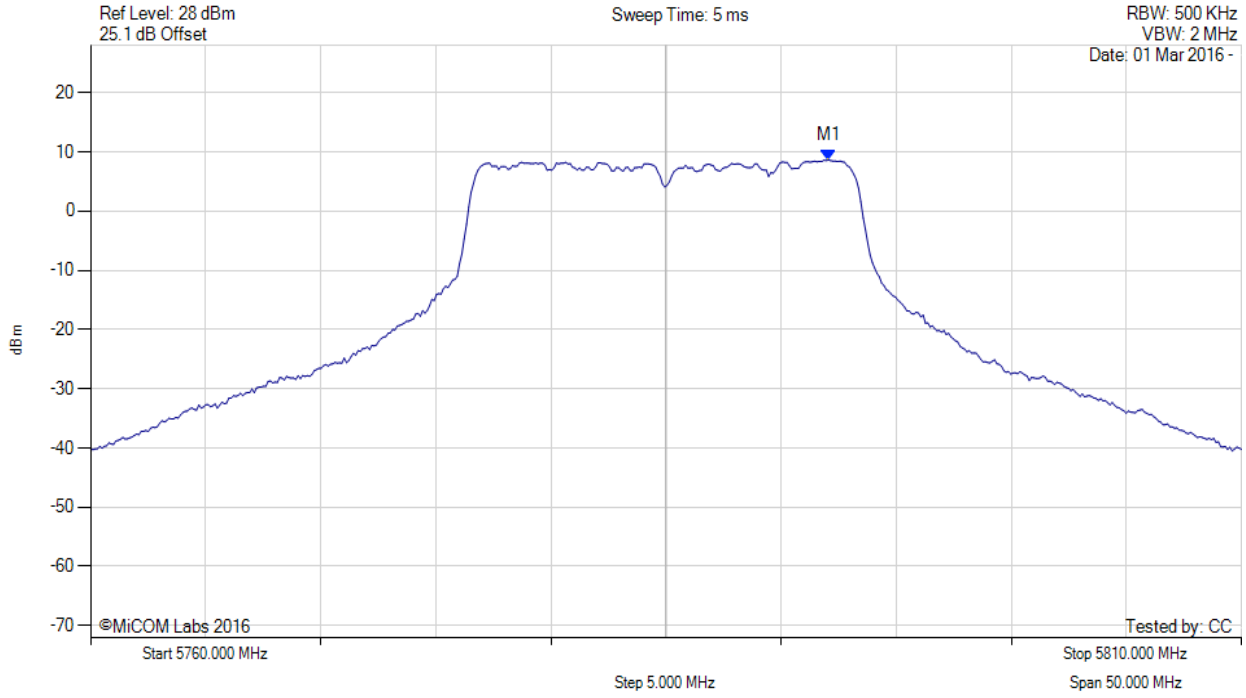


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5752.000 MHz : 8.928 dBm M1 + DCCF : 5752.000 MHz : 8.972 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -21.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

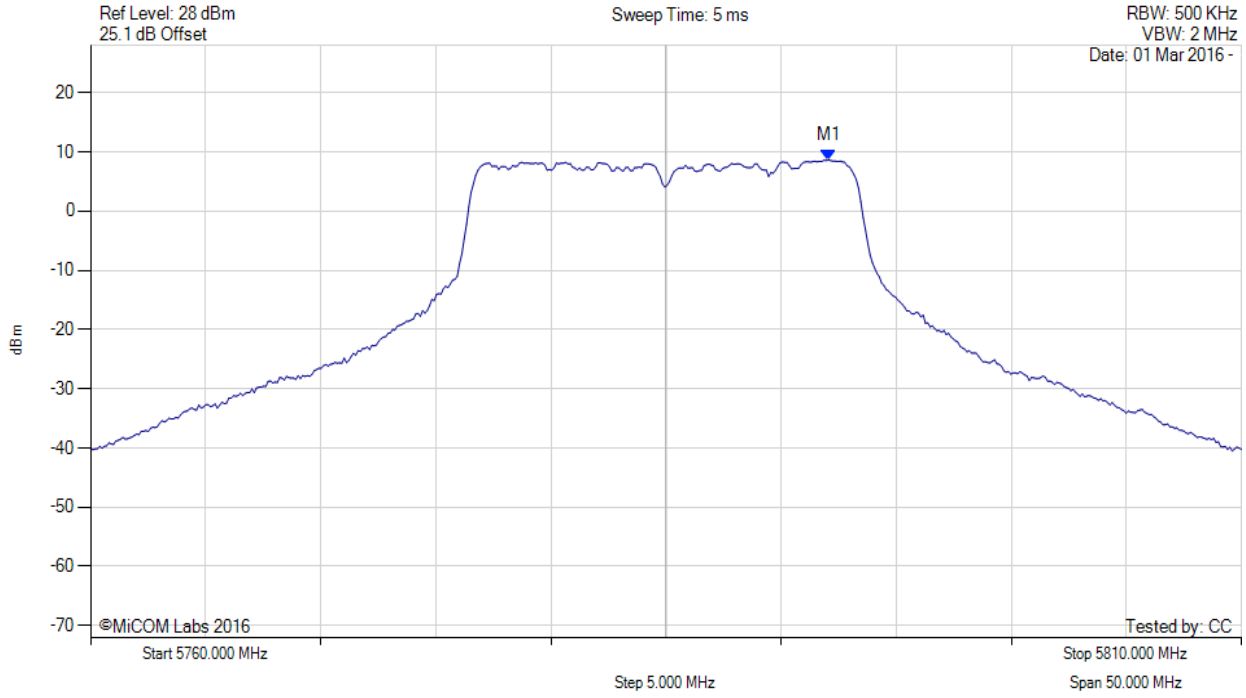


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.064 MHz : 8.635 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

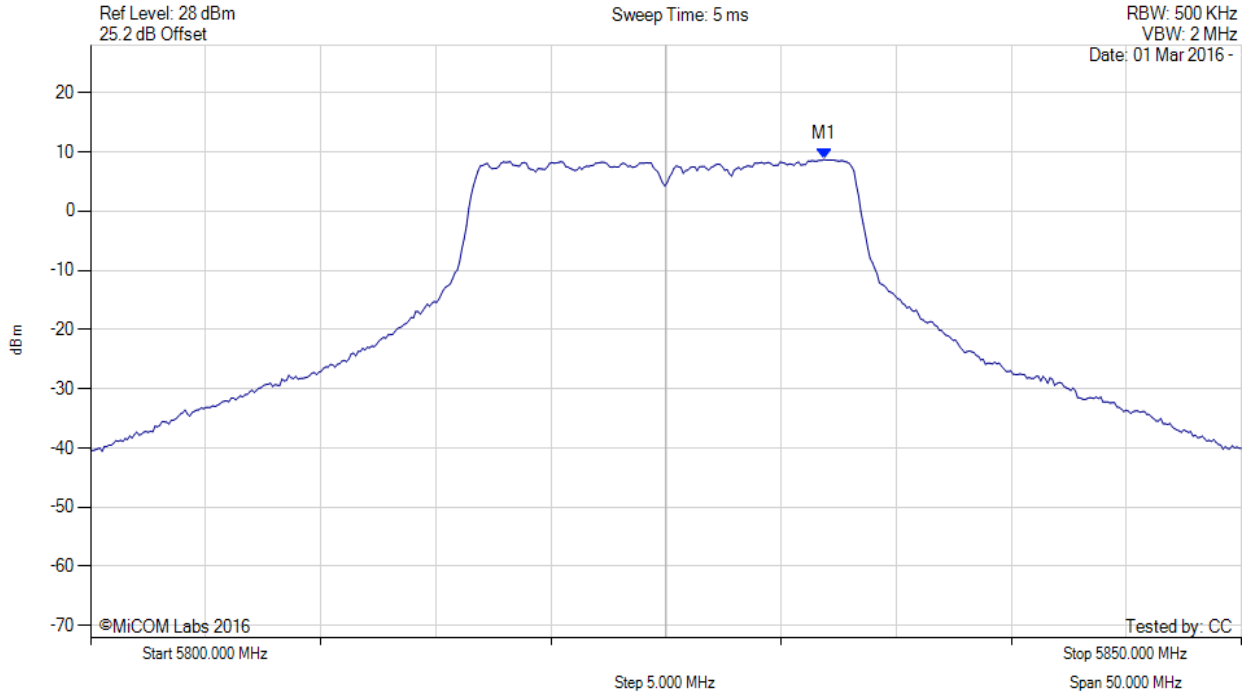


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.100 MHz : 8.635 dBm M1 + DCCF : 5792.100 MHz : 8.679 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -21.3 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

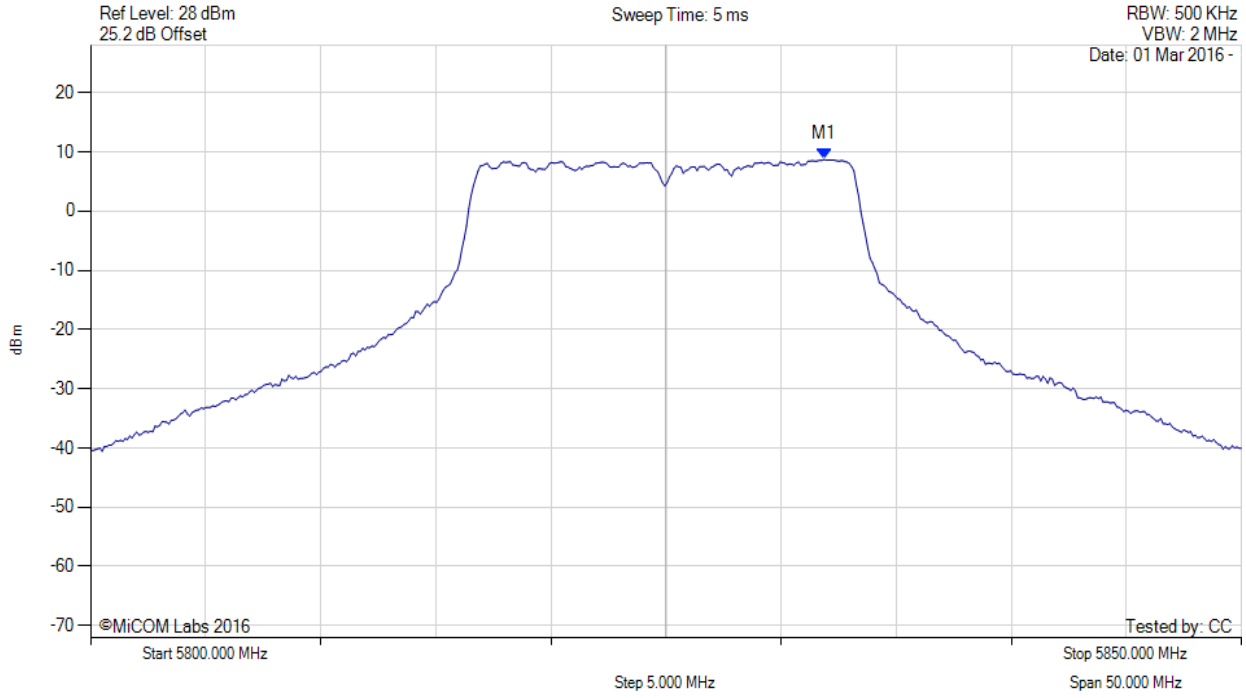


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5831.864 MHz : 8.720 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

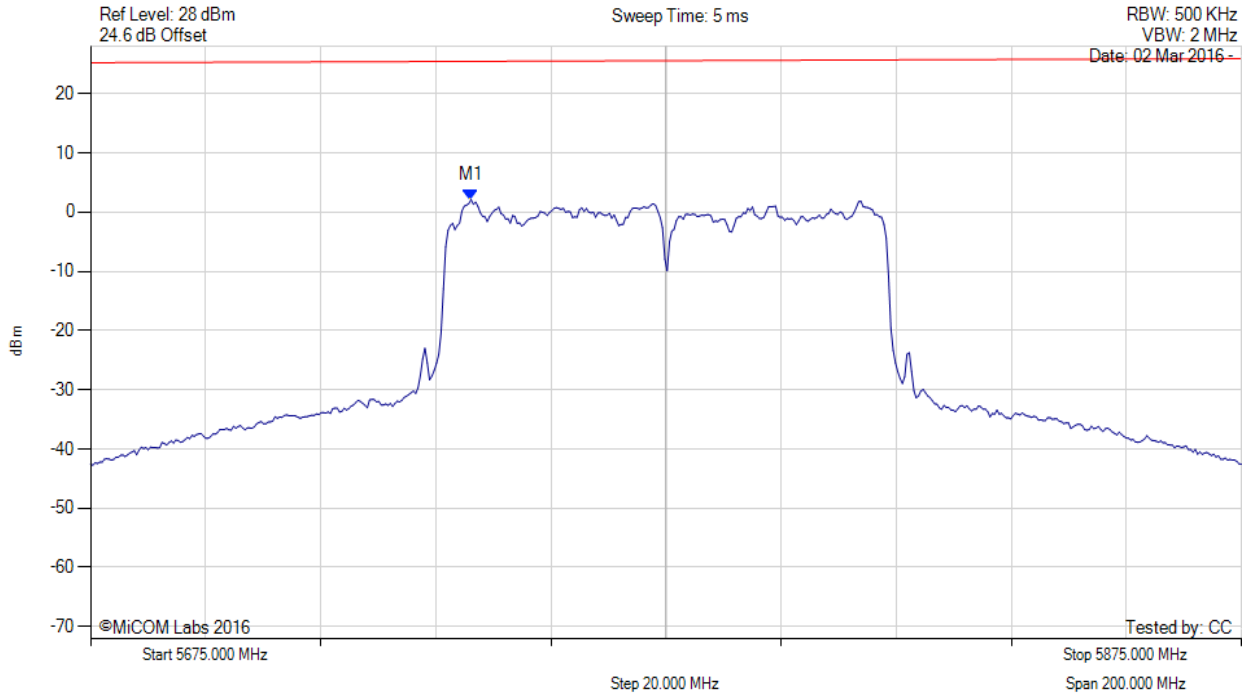


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5831.900 MHz : 8.720 dBm M1 + DCCF : 5831.900 MHz : 8.764 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 30.0 dBm Margin: -21.2 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5741.132 MHz : 2.104 dBm	Limit: ≤ 25.230 dBm

back to matrix

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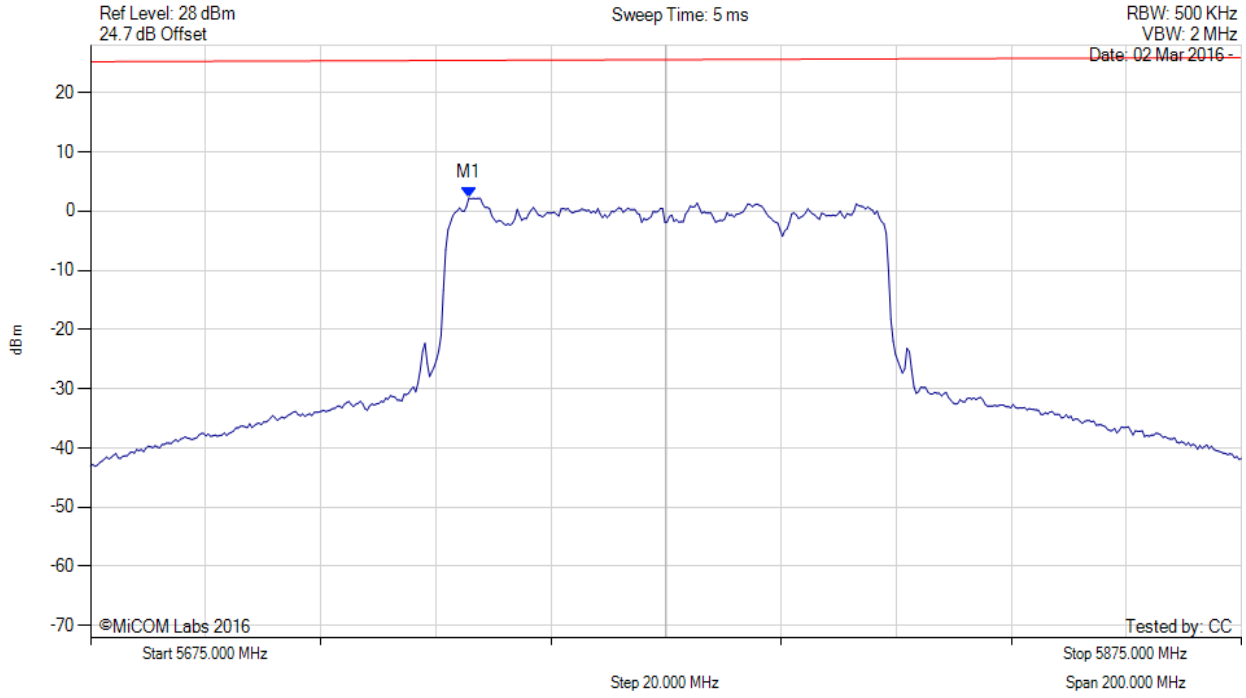
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

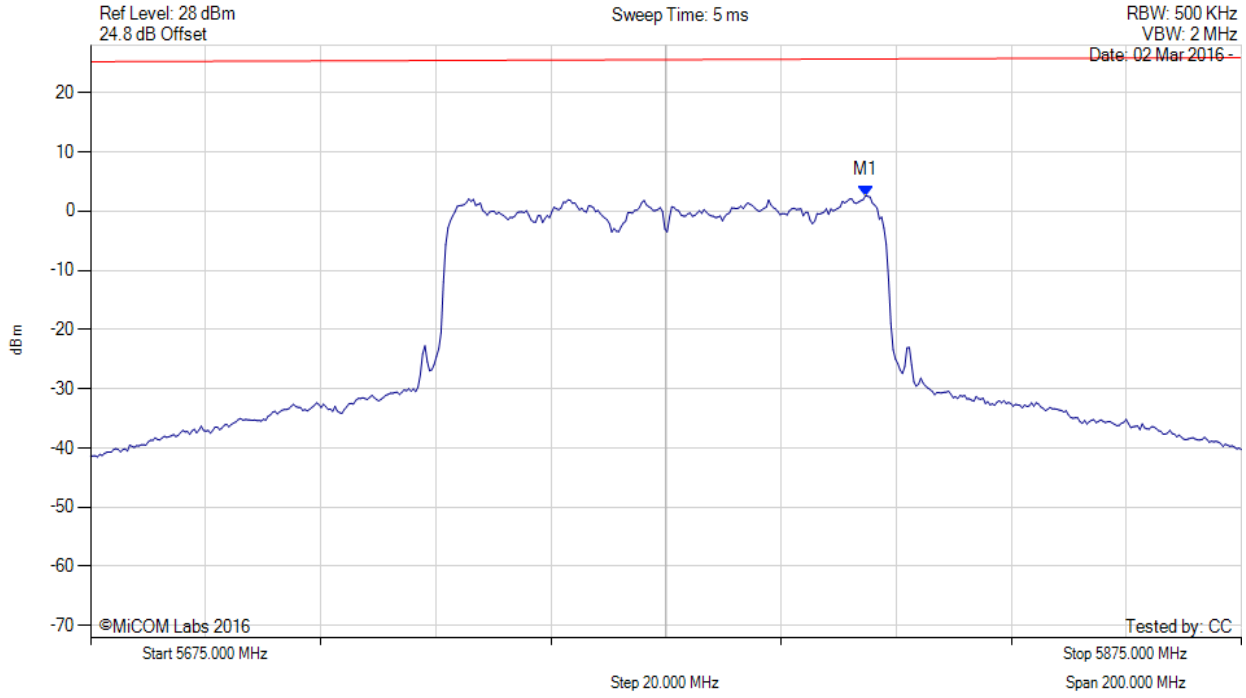


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5740.731 MHz : 2.200 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

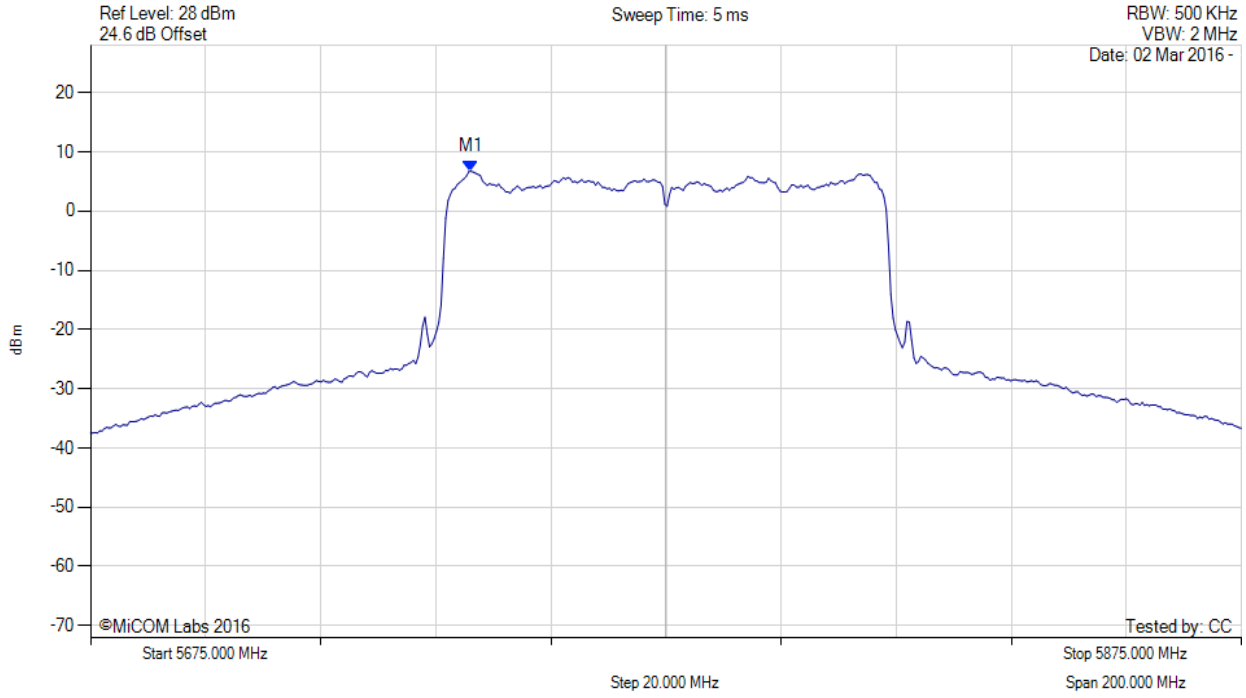


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5809.669 MHz : 2.601 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

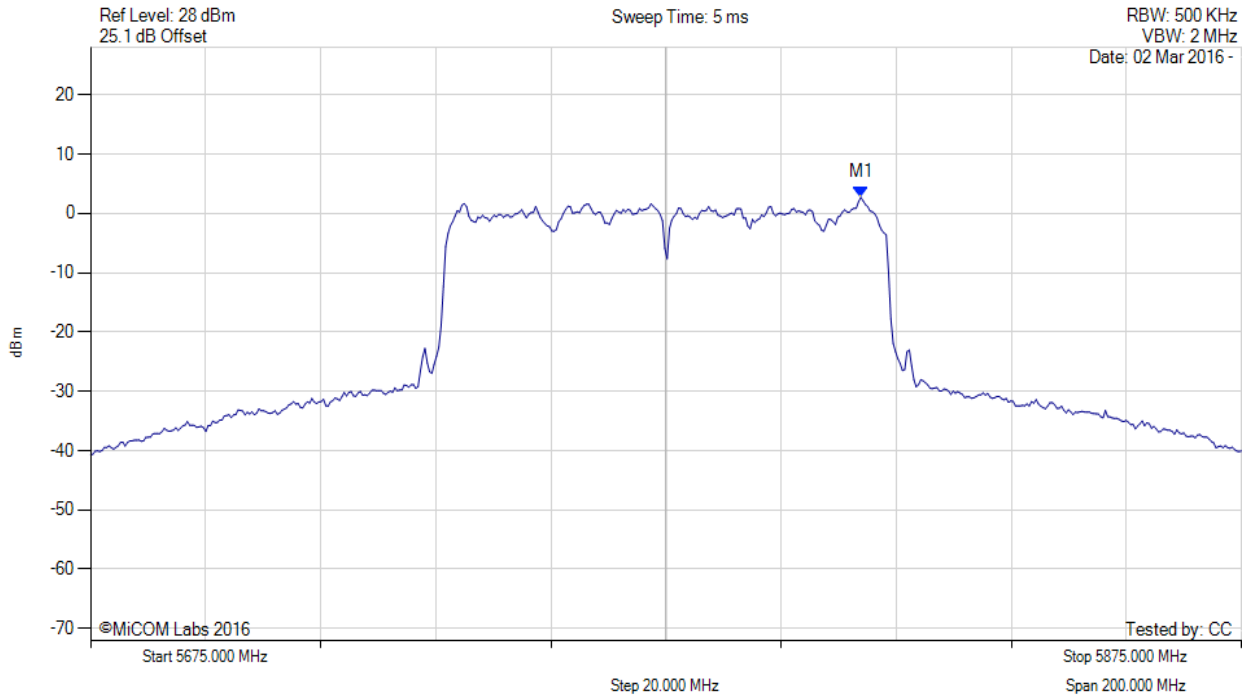


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5741.100 MHz : 6.722 dBm M1 + DCCF : 5741.100 MHz : 7.037 dBm Duty Cycle Correction Factor : +0.32 dB	Limit: ≤ 30.0 dBm Margin: -22.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

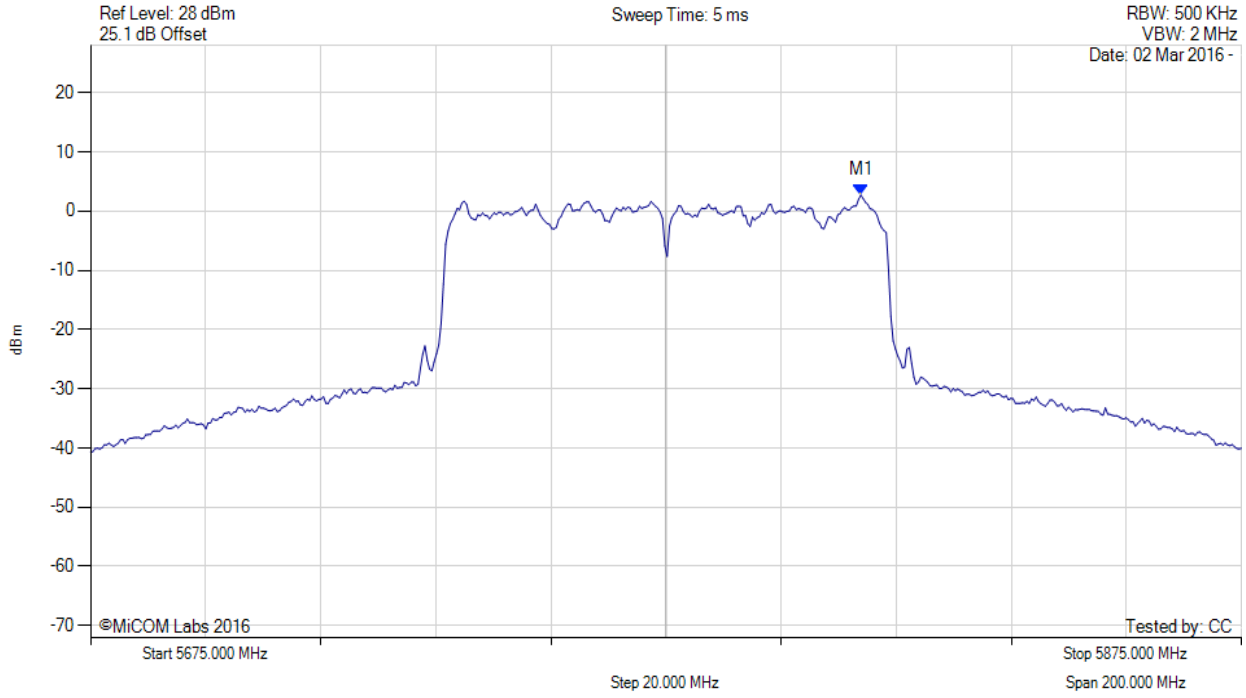


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5808.868 MHz : 2.712 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5775.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

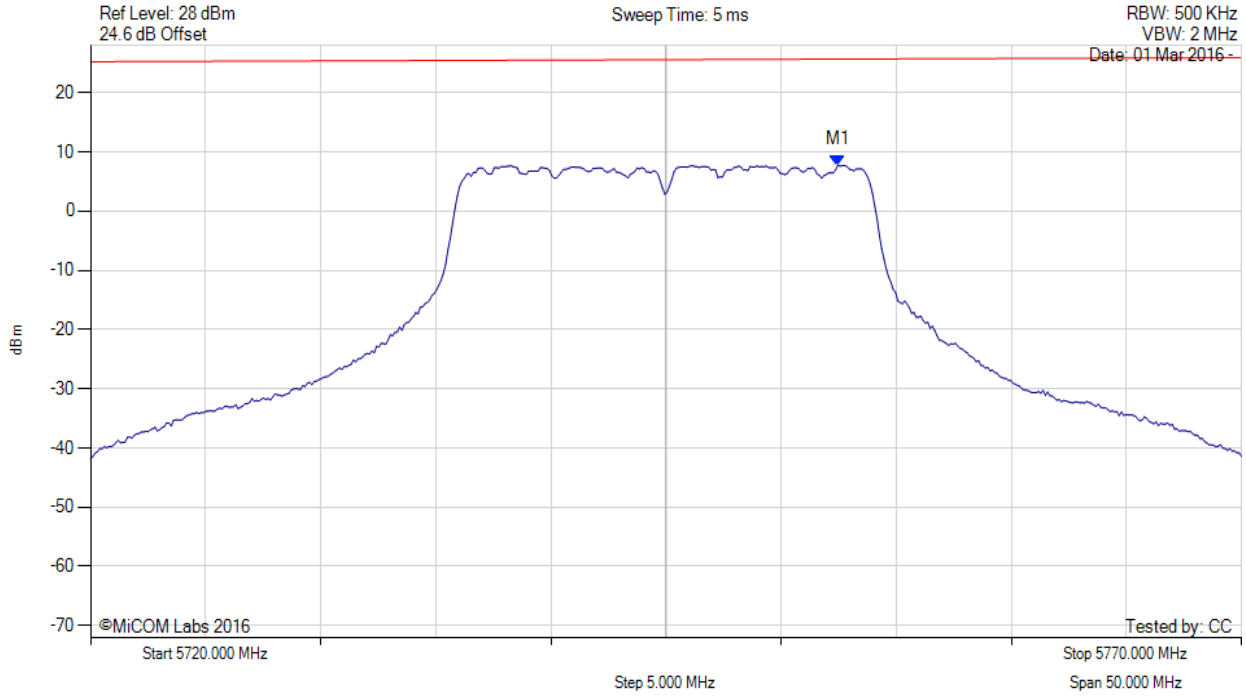


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5808.900 MHz : 2.712 dBm M1 + DCCF : 5808.900 MHz : 3.027 dBm Duty Cycle Correction Factor : +0.32 dB	Limit: ≤ 30.0 dBm Margin: -27.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

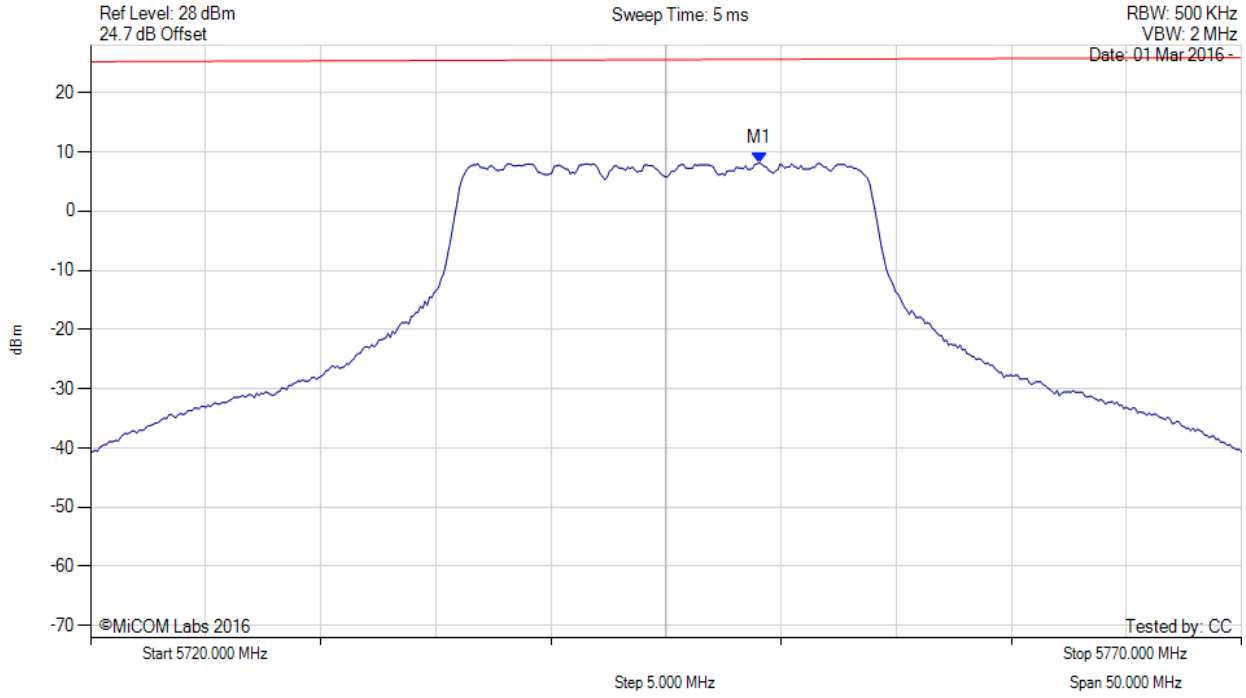


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5752.465 MHz : 7.742 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

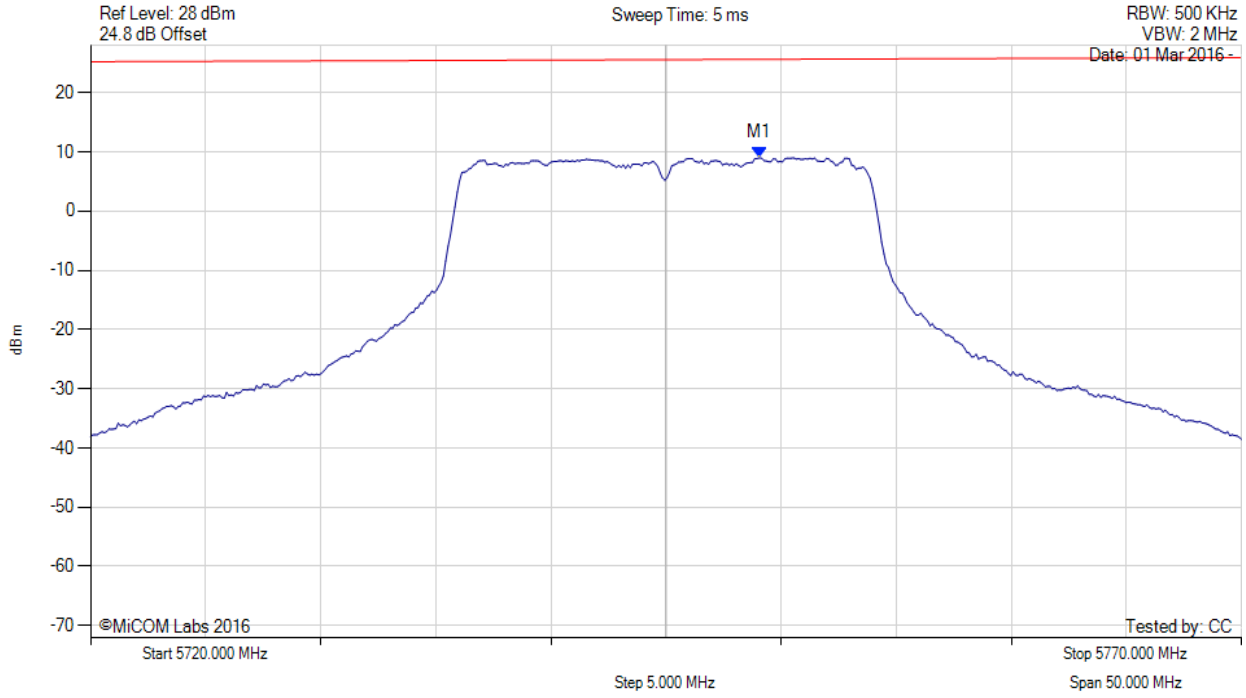


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.058 MHz : 8.157 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

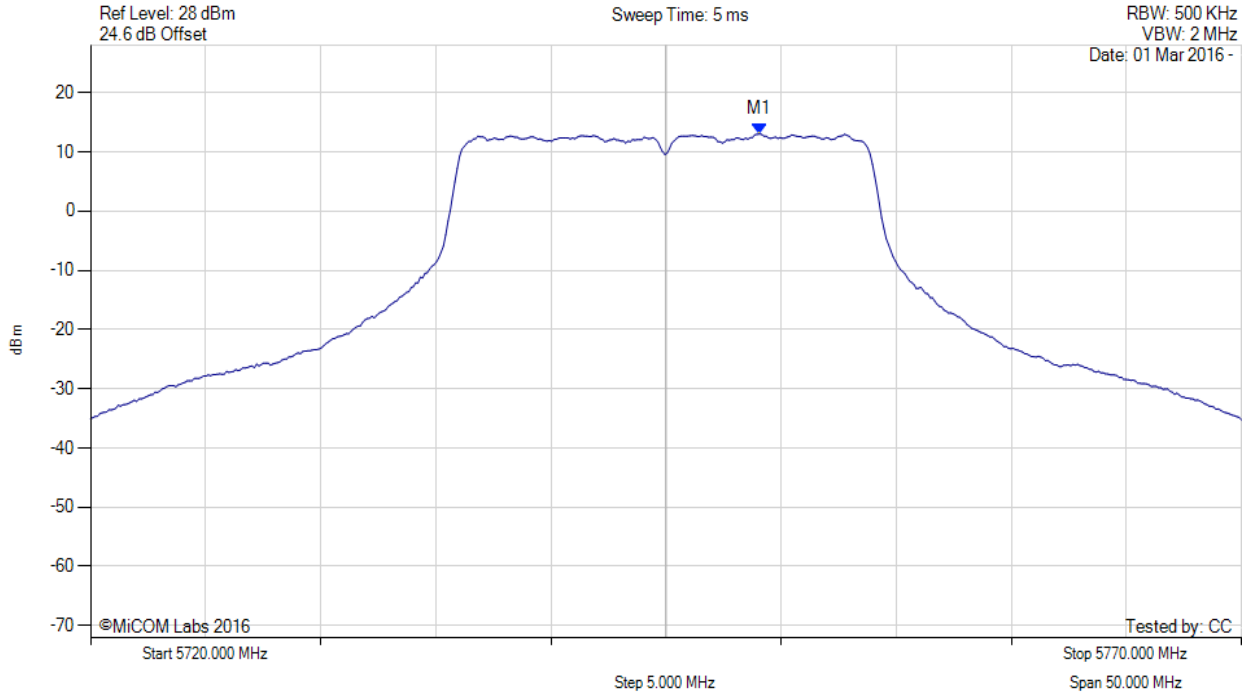


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.058 MHz : 8.984 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

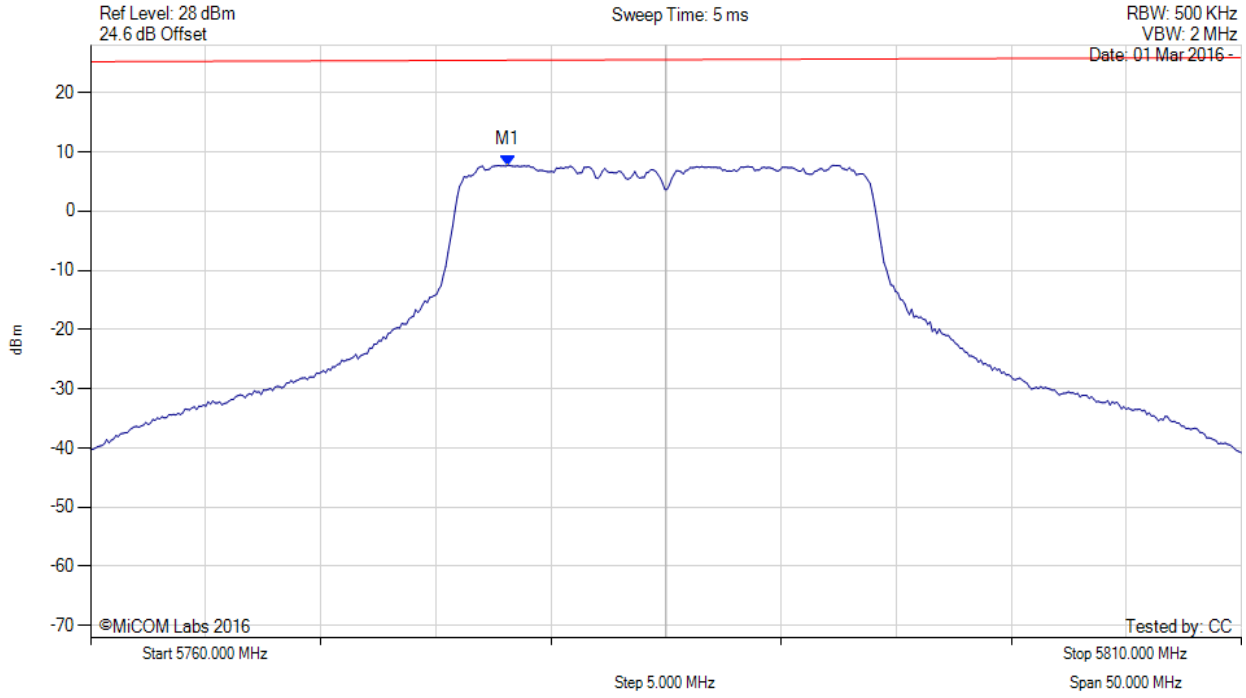


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.100 MHz : 13.021 dBm M1 + DCCF : 5749.100 MHz : 13.109 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -16.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

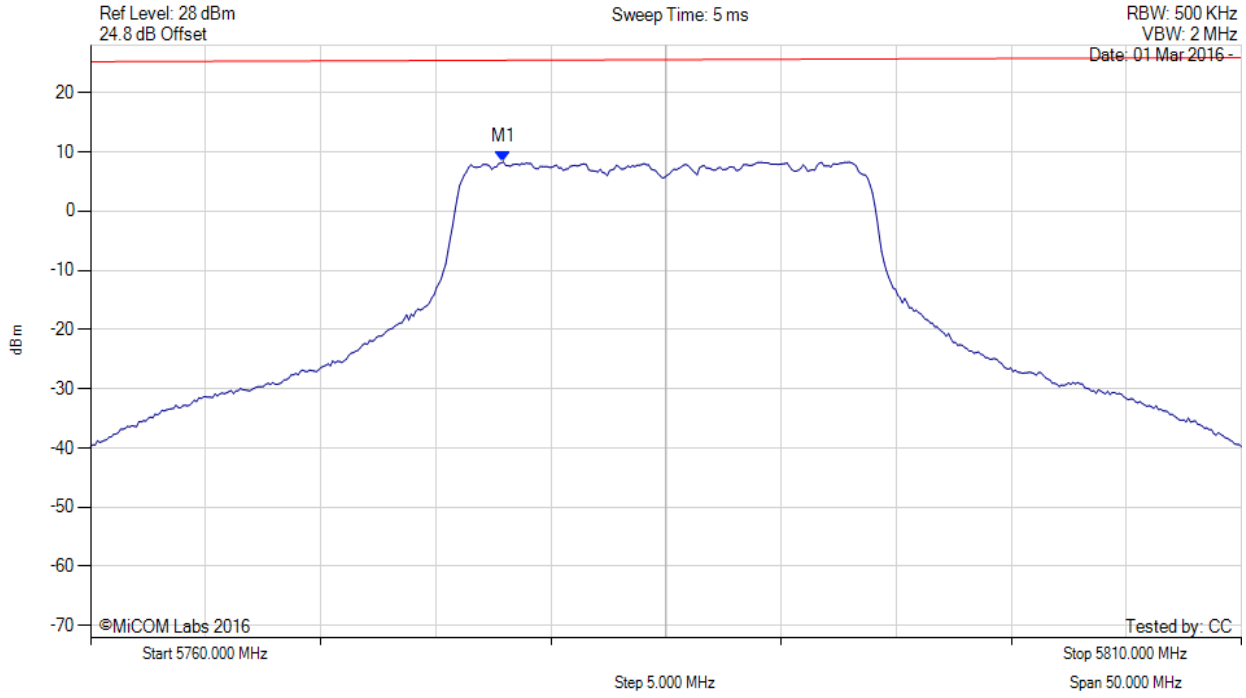


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5778.136 MHz : 7.765 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

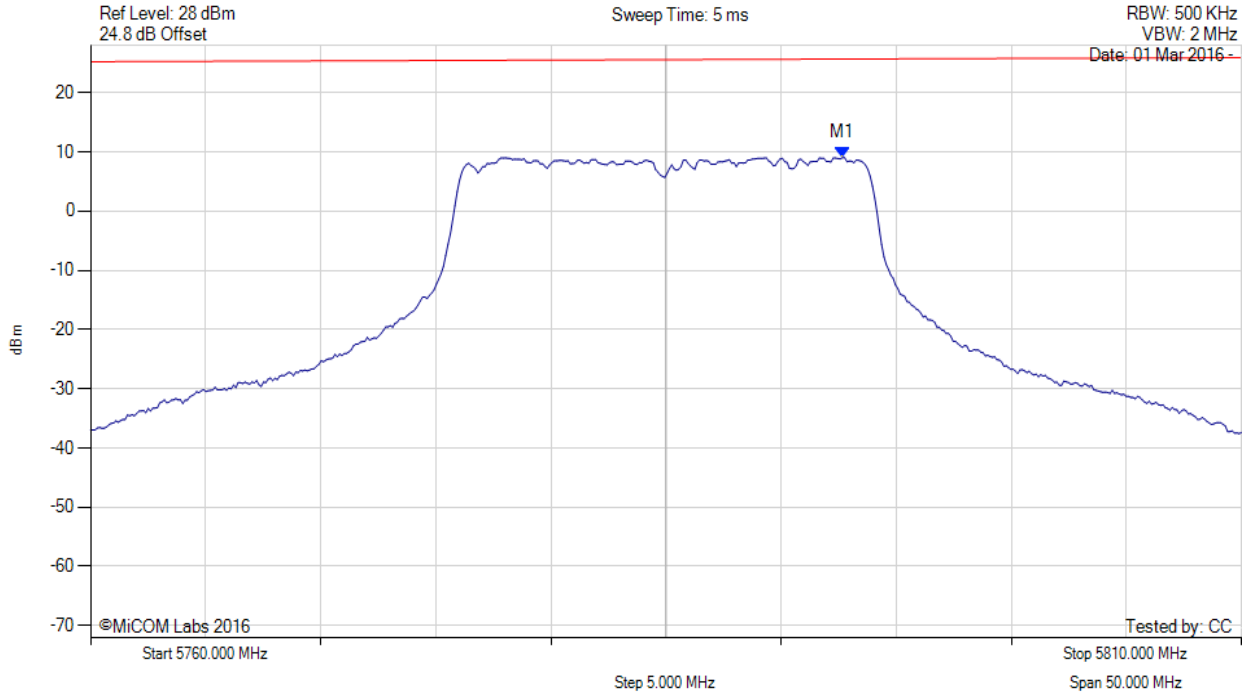


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5777.936 MHz : 8.316 dBm	Channel Frequency: 5785.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

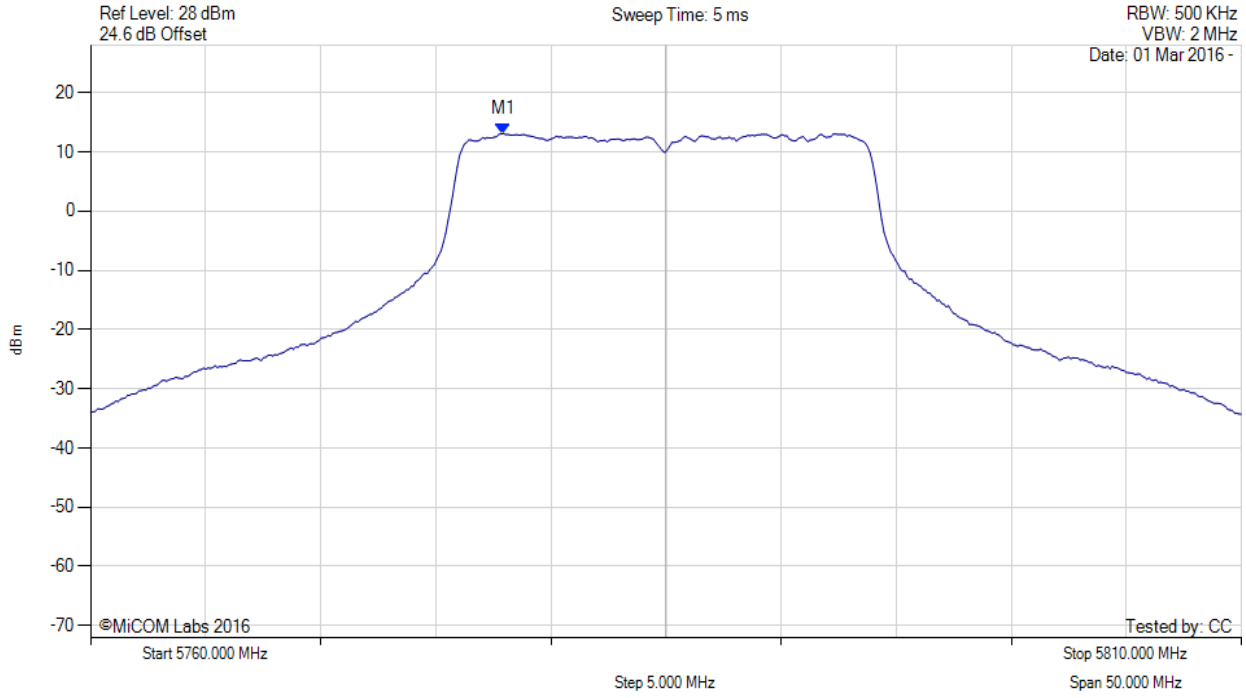


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.665 MHz : 9.025 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

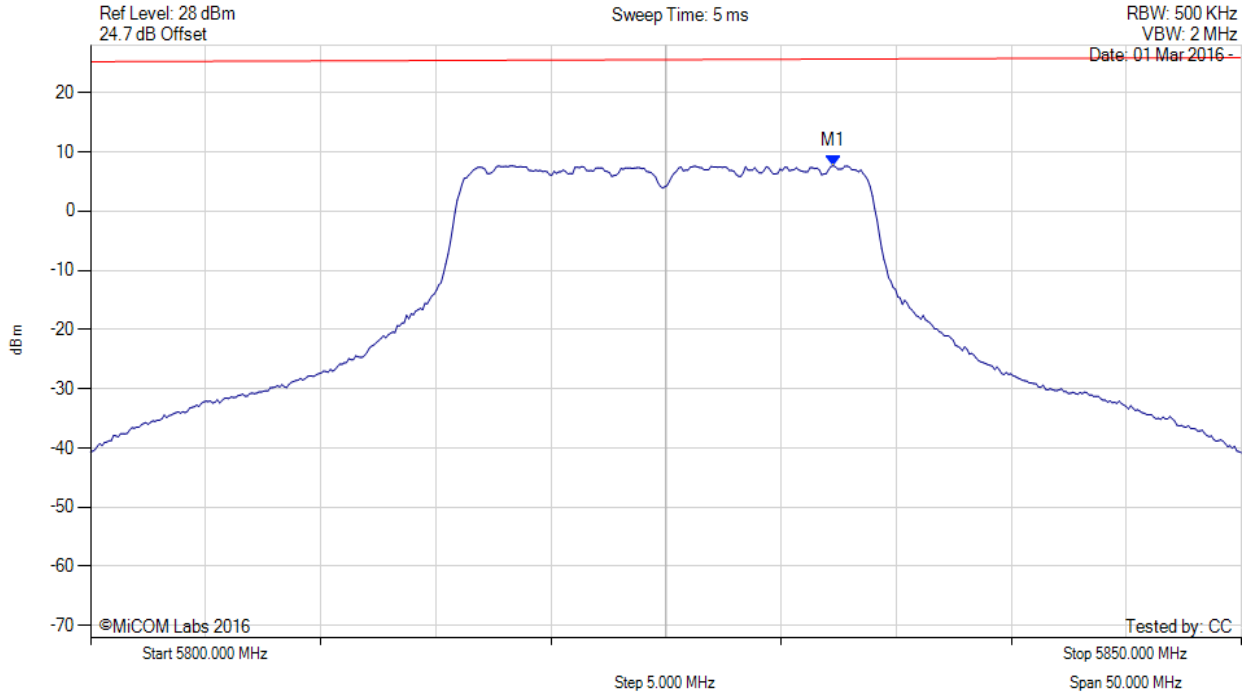


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5777.900 MHz : 13.108 dBm M1 + DCCF : 5777.900 MHz : 13.196 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -16.8 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

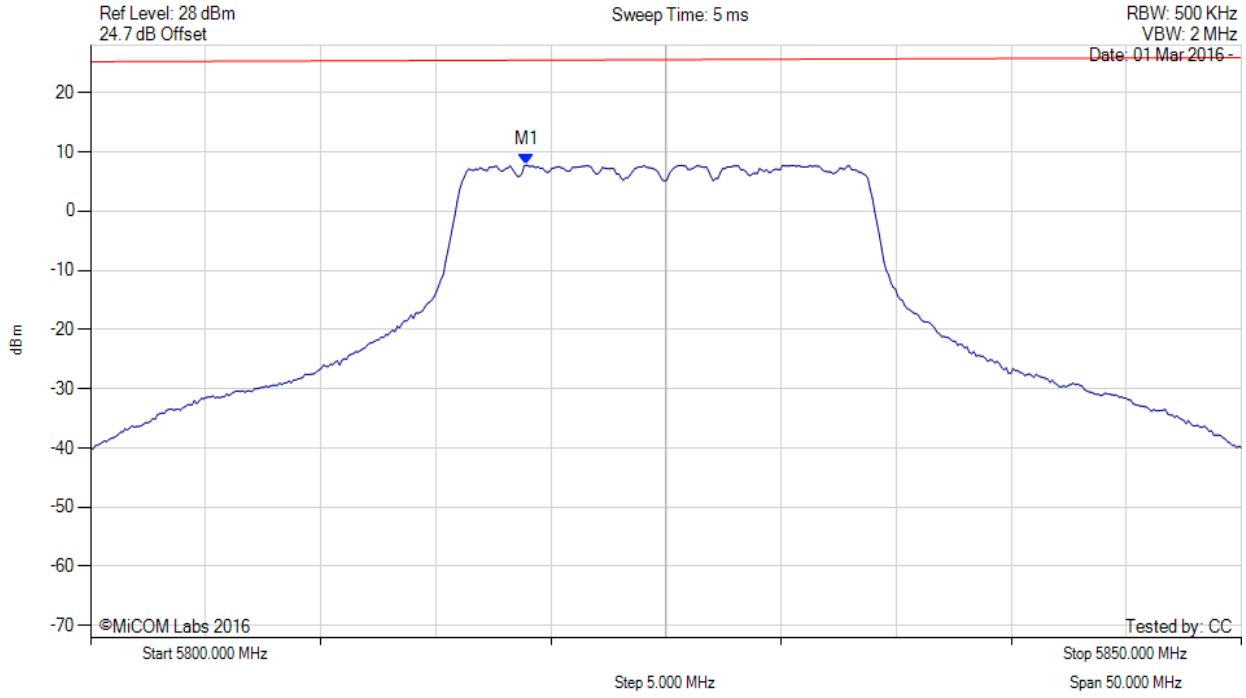


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.265 MHz : 7.657 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

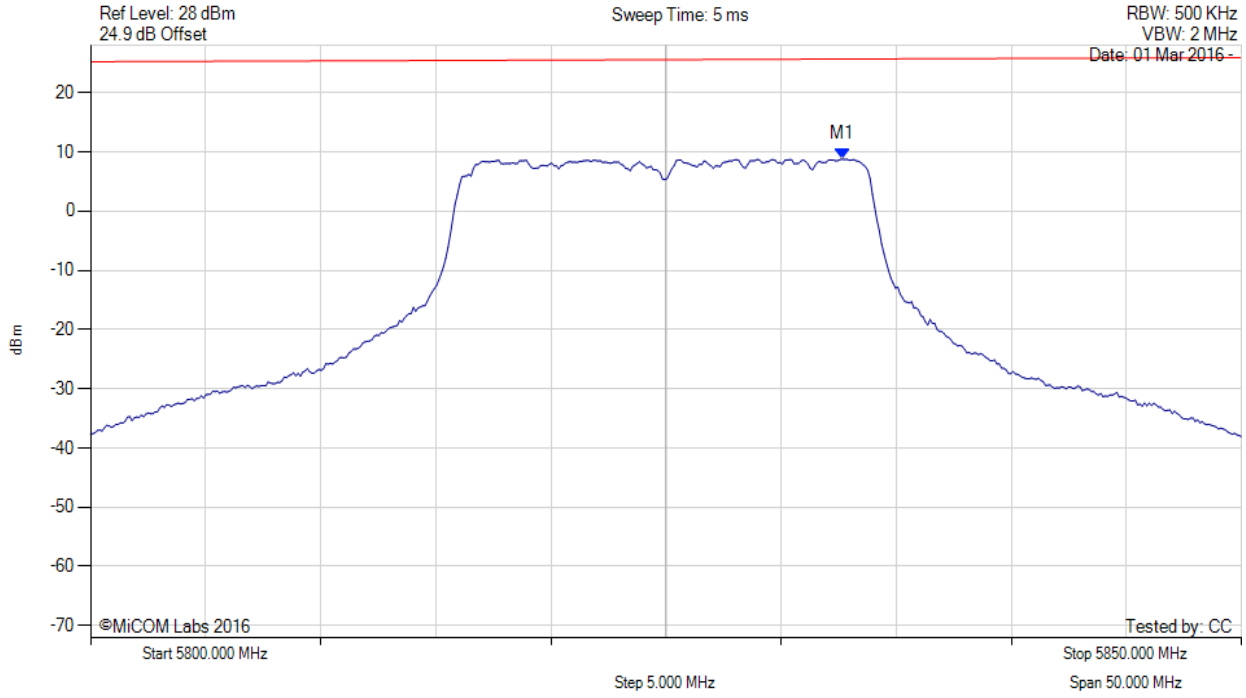


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5818.938 MHz : 7.780 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

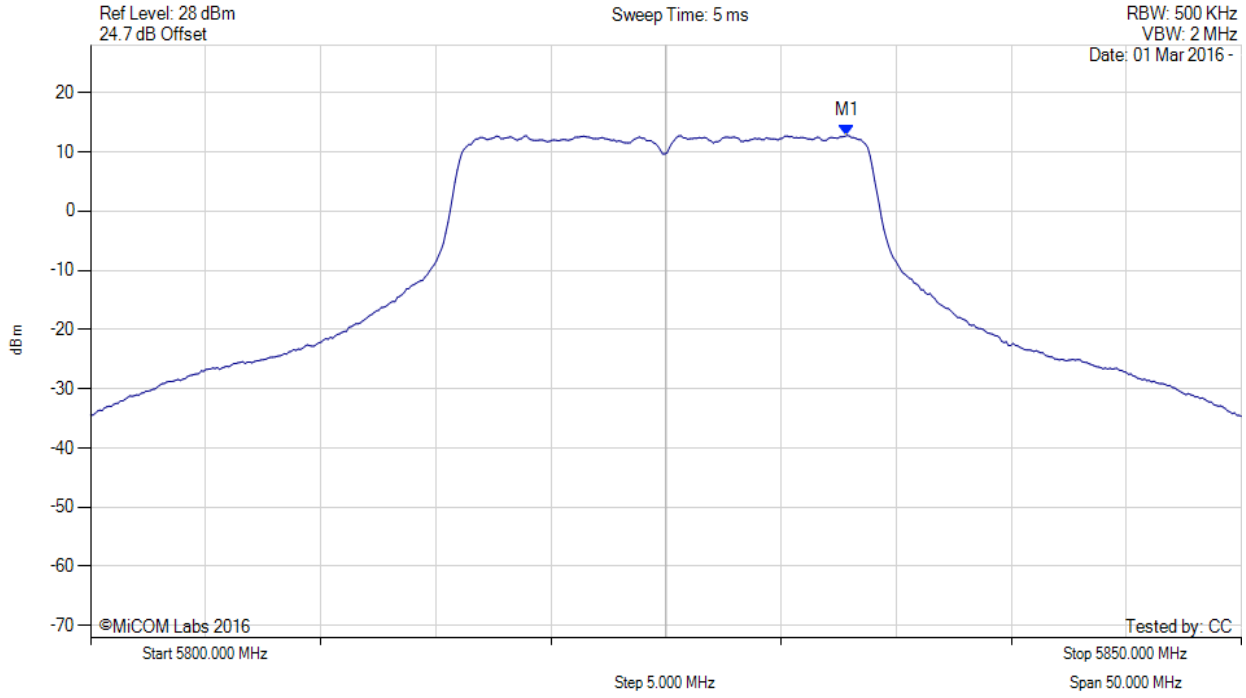


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.665 MHz : 8.784 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

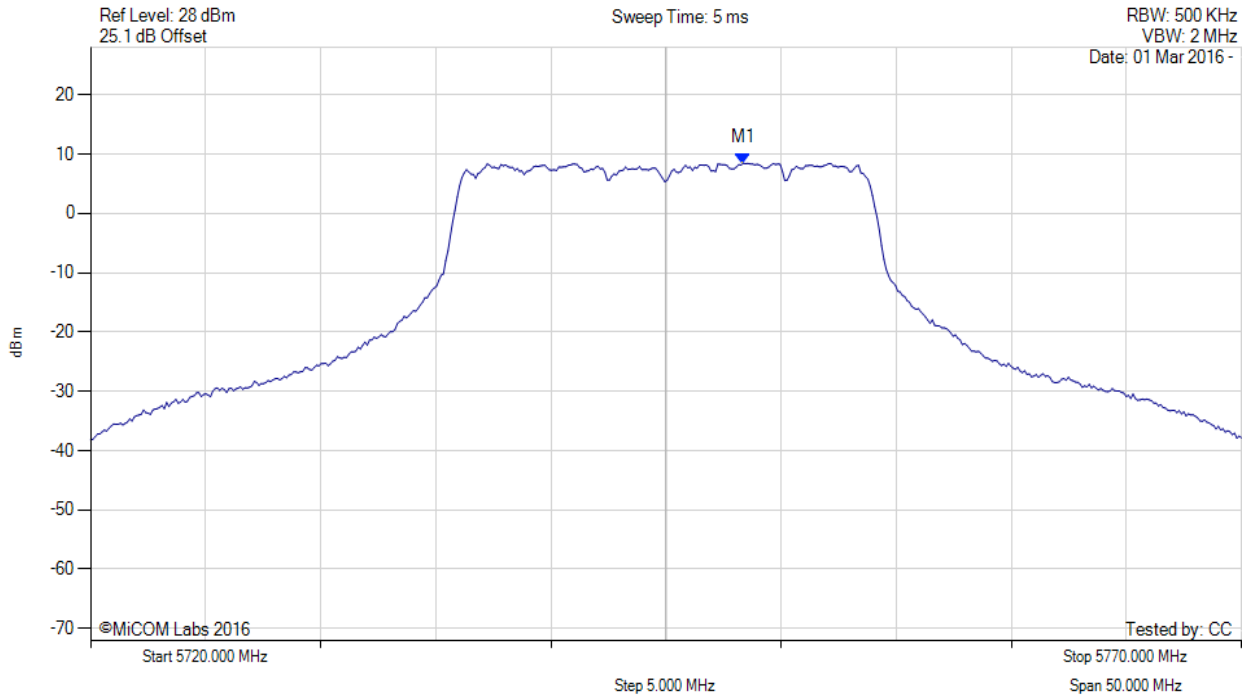


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.900 MHz : 12.781 dBm M1 + DCCF : 5832.900 MHz : 12.869 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -17.1 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

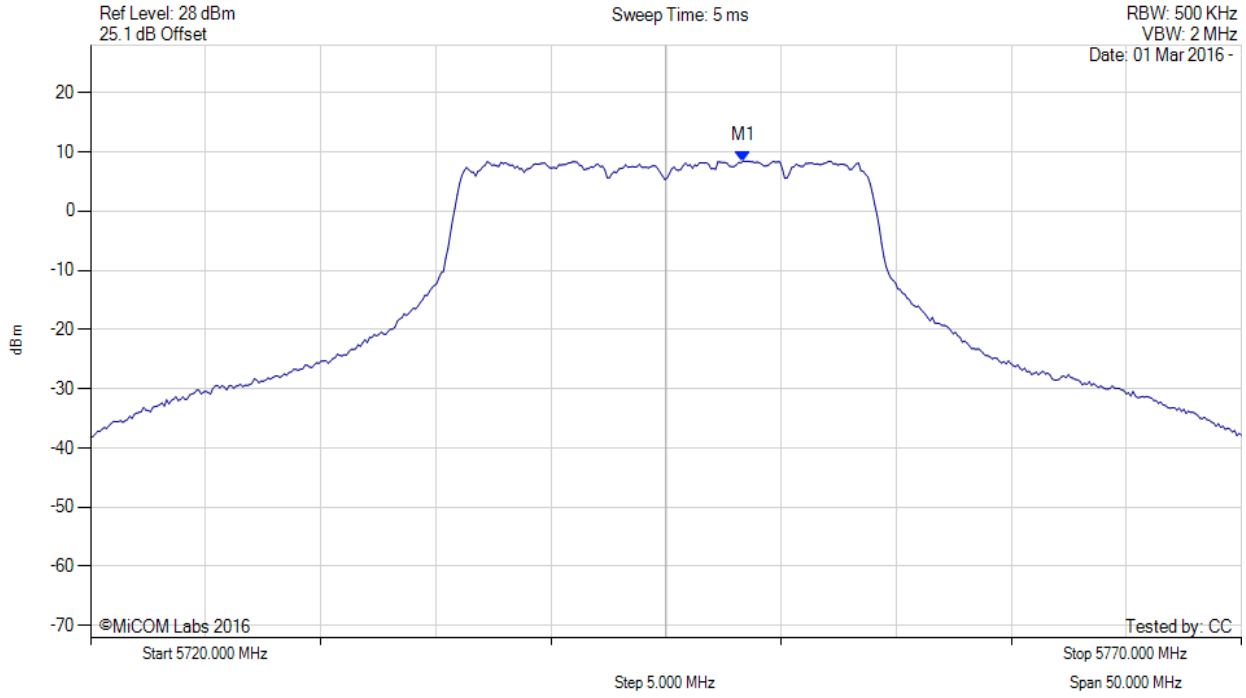


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.357 MHz : 8.461 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5745.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

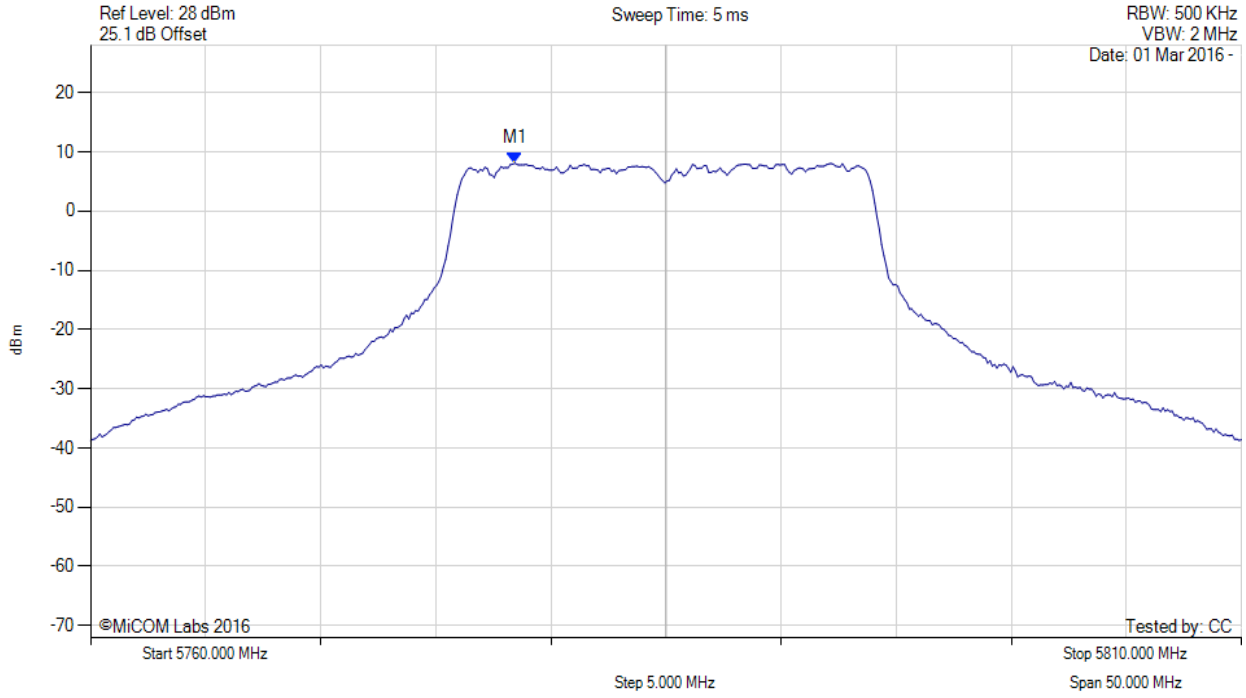


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5748.400 MHz : 8.461 dBm M1 + DCCF : 5748.400 MHz : 8.549 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -21.5 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

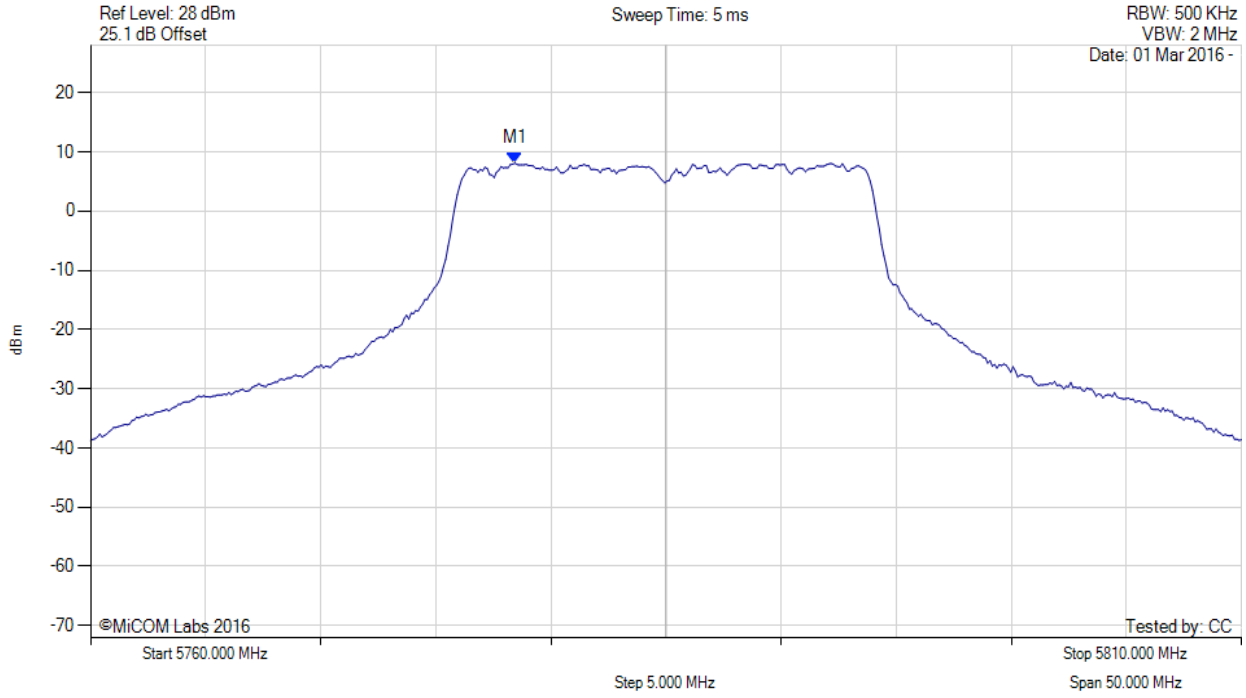


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5778.437 MHz : 8.091 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5785.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

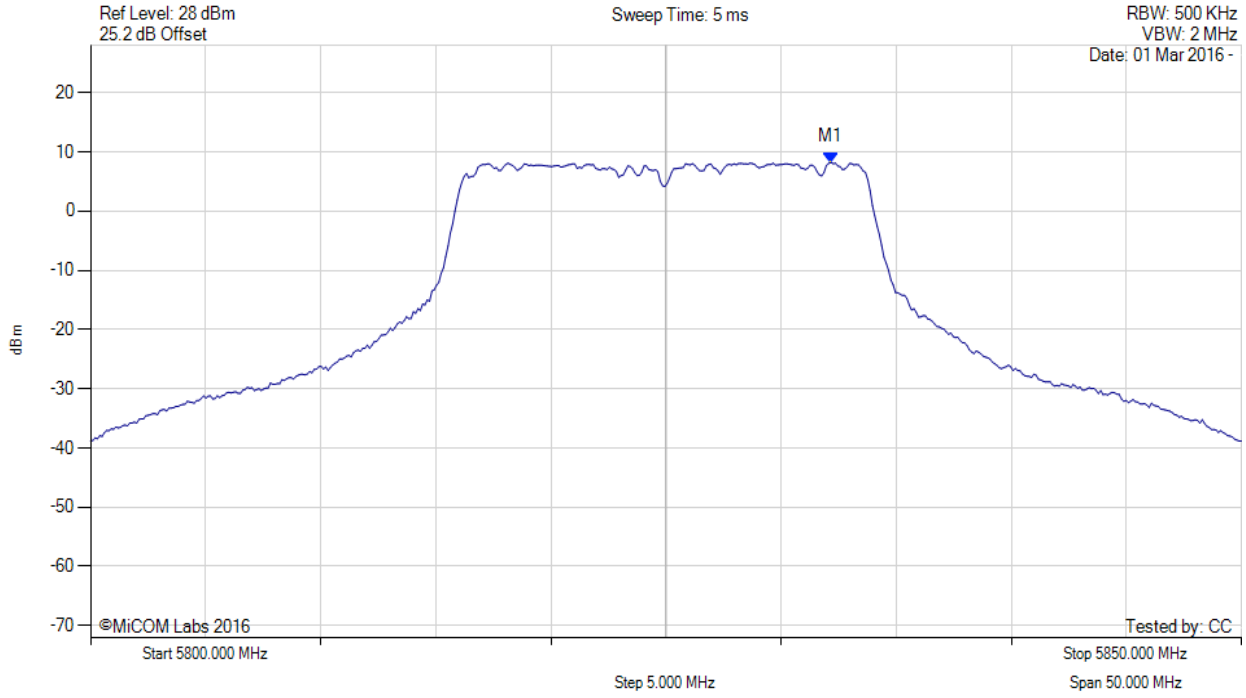


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5778.400 MHz : 8.091 dBm M1 + DCCF : 5778.400 MHz : 8.179 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -21.8 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

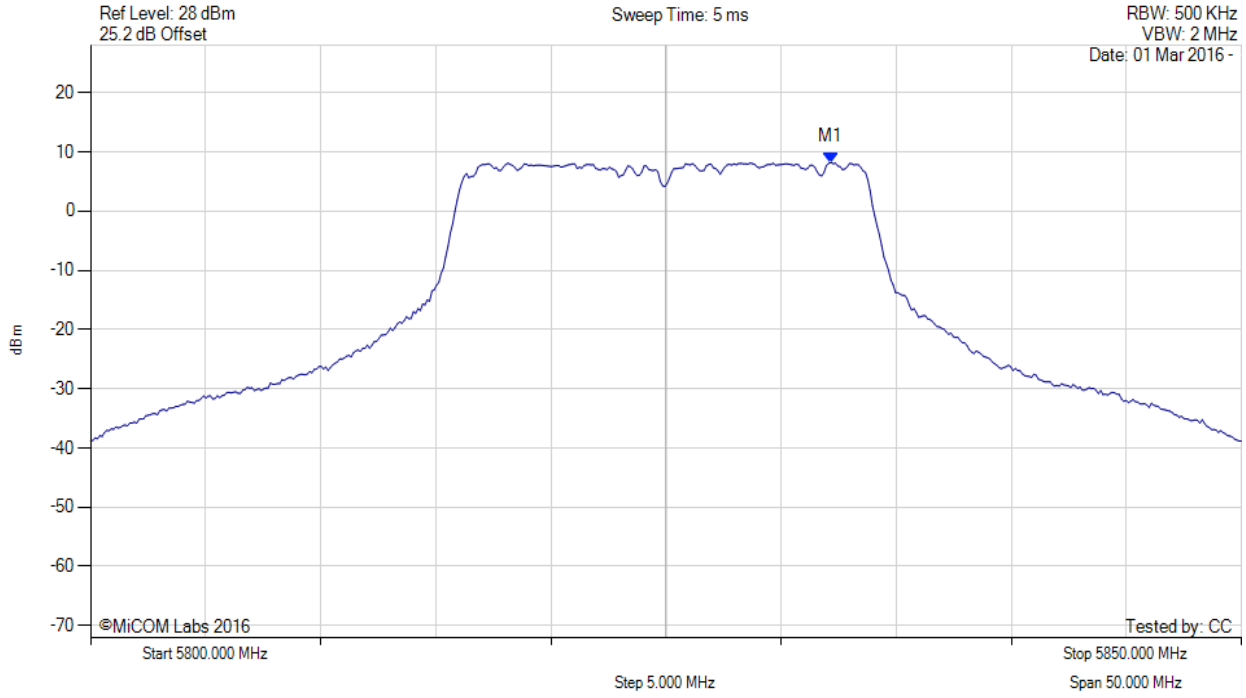


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.164 MHz : 8.210 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-20, Channel: 5825.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

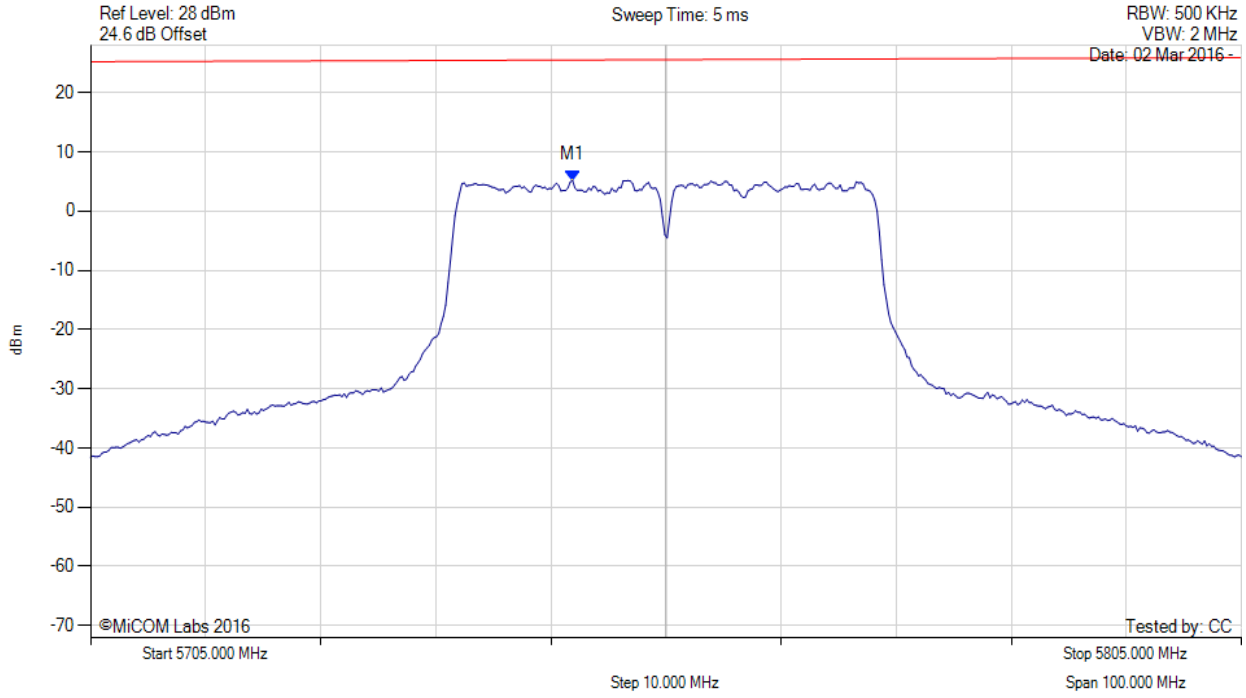


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5832.200 MHz : 8.210 dBm M1 + DCCF : 5832.200 MHz : 8.298 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 30.0 dBm Margin: -21.7 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

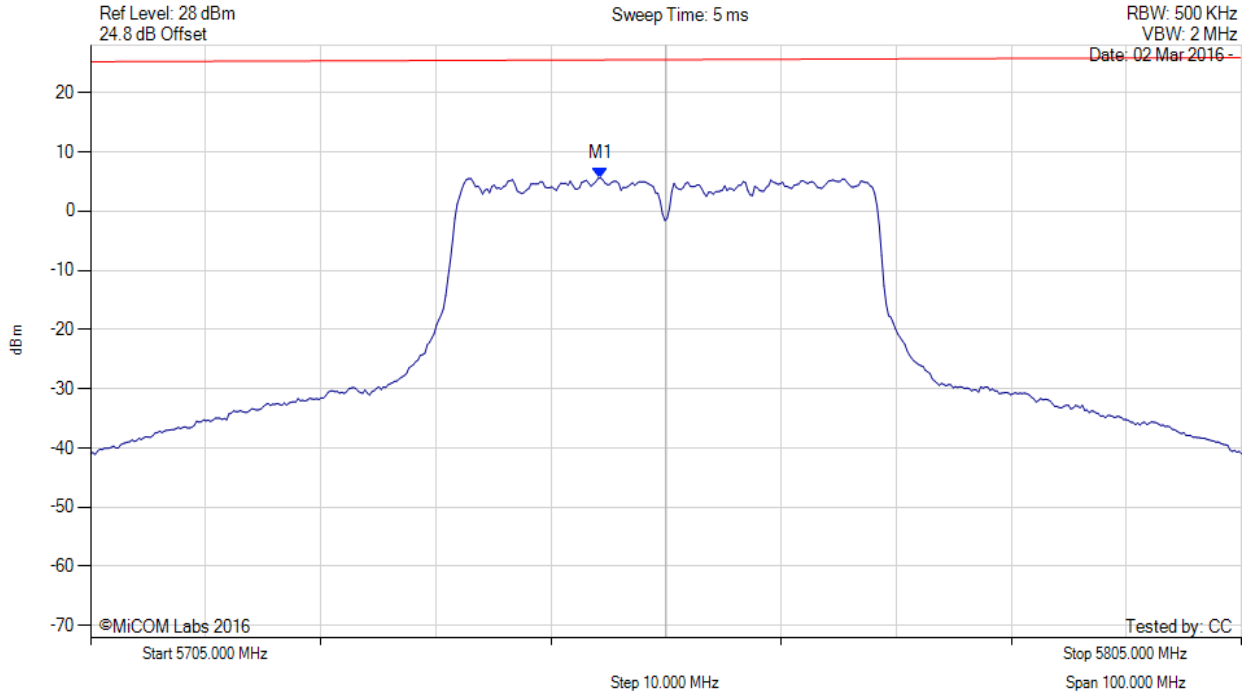


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5746.884 MHz : 5.187 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

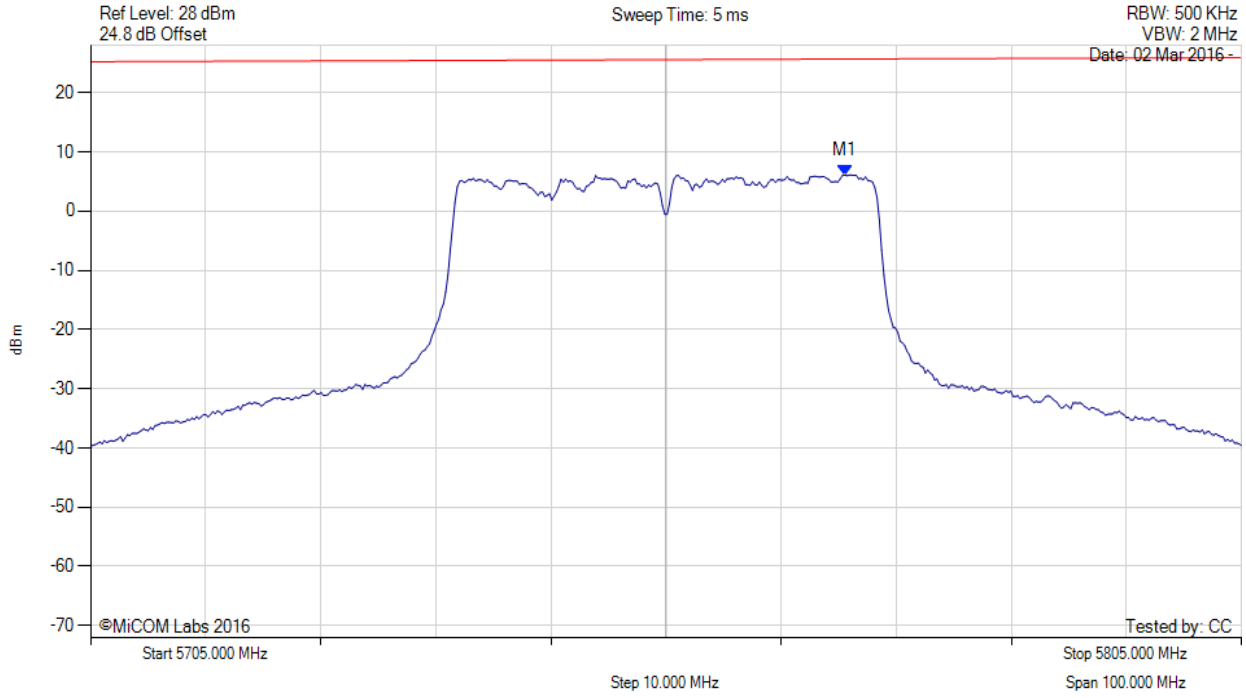


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5749.289 MHz : 5.594 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

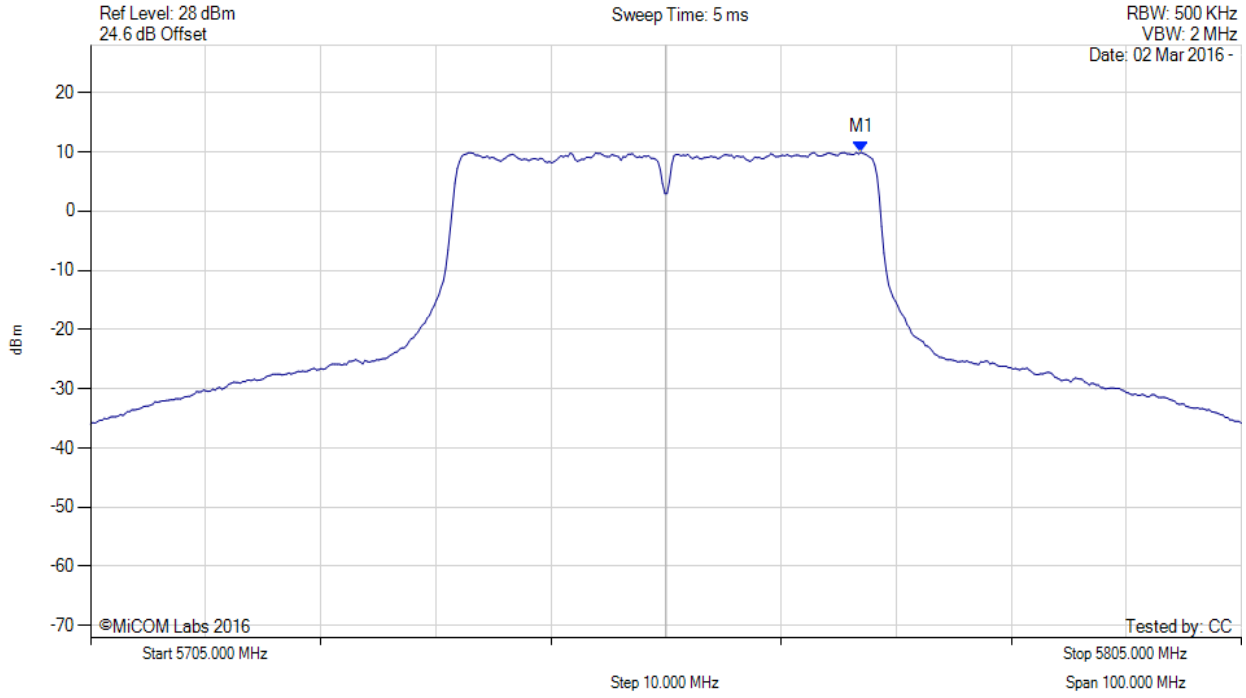


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5770.531 MHz : 6.100 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

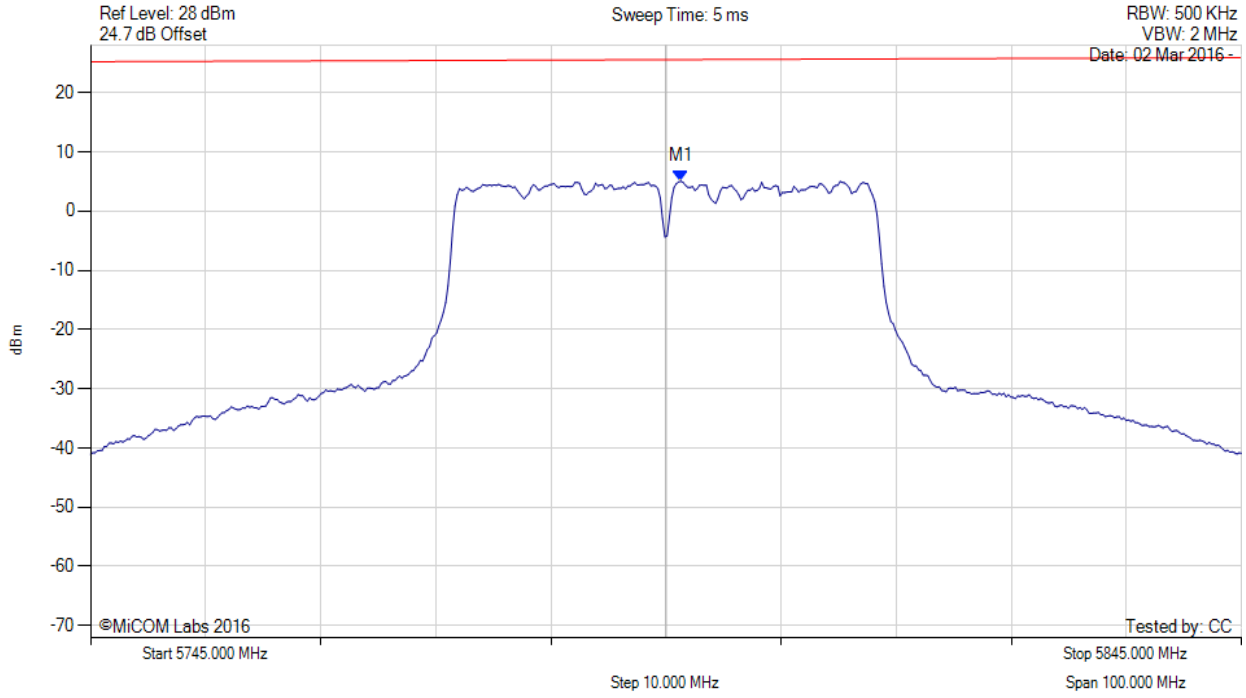


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5771.900 MHz : 9.927 dBm M1 + DCCF : 5771.900 MHz : 10.104 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -19.9 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain a, Temp: 20, Voltage: 12 Vdc

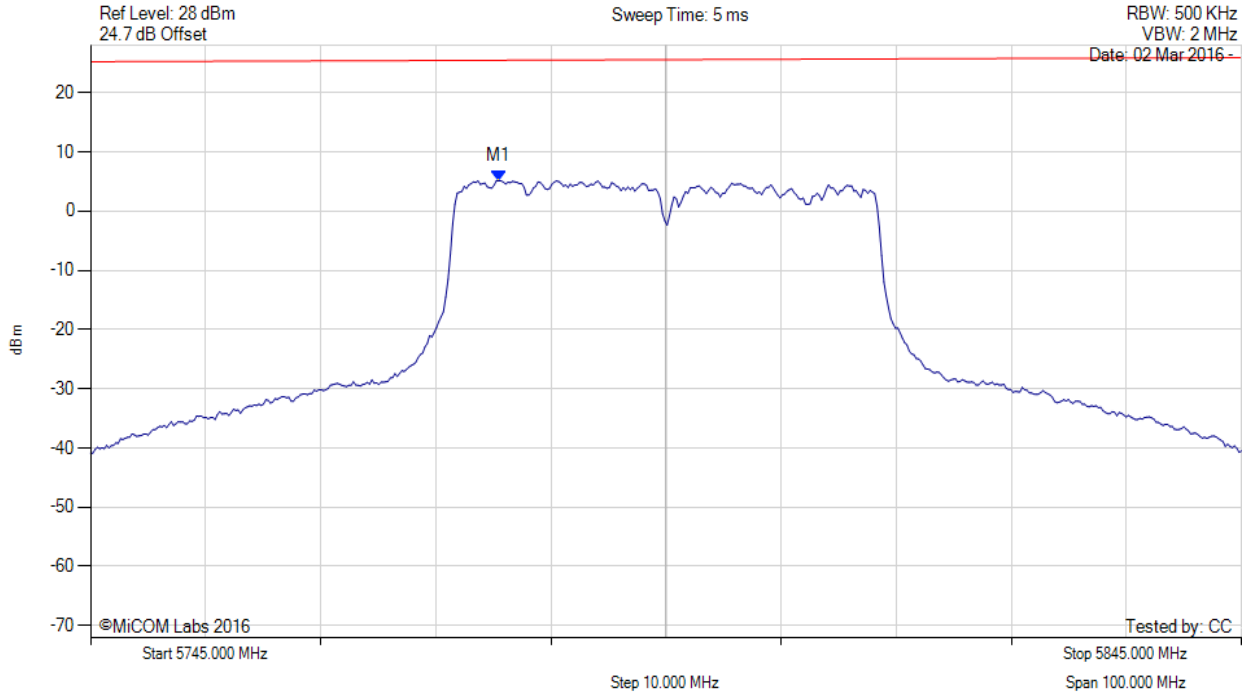


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5796.303 MHz : 5.046 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain b, Temp: 20, Voltage: 12 Vdc

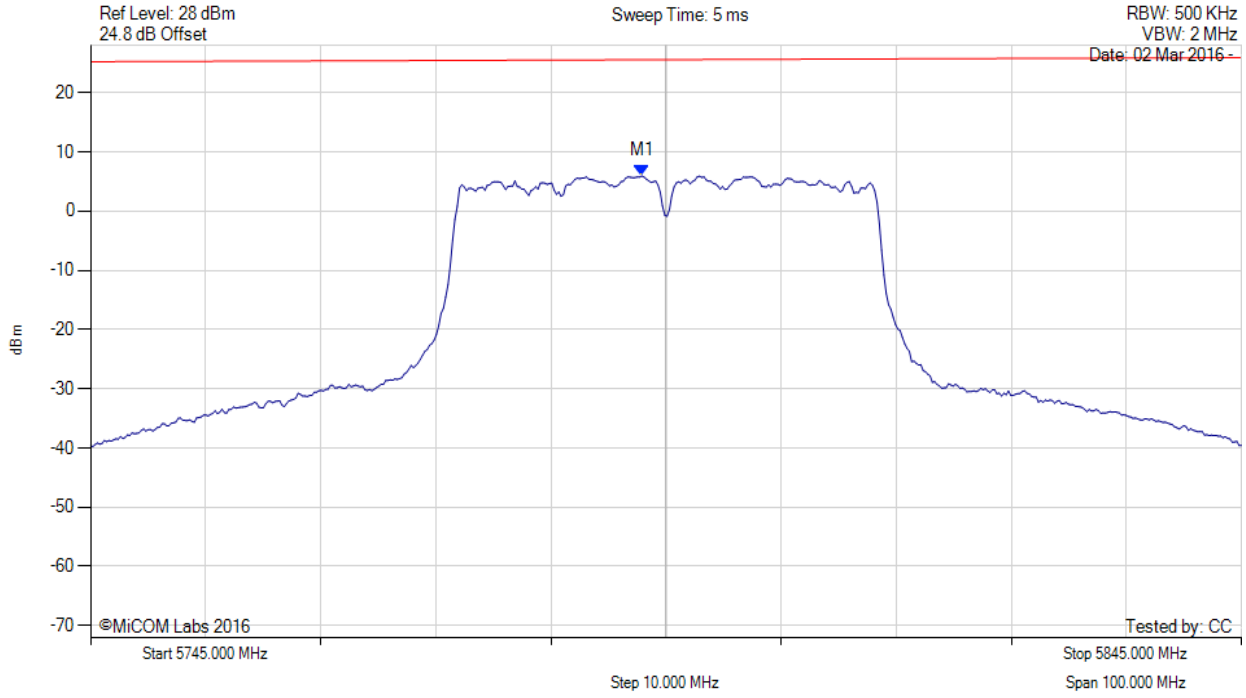


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5780.471 MHz : 5.138 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain c, Temp: 20, Voltage: 12 Vdc

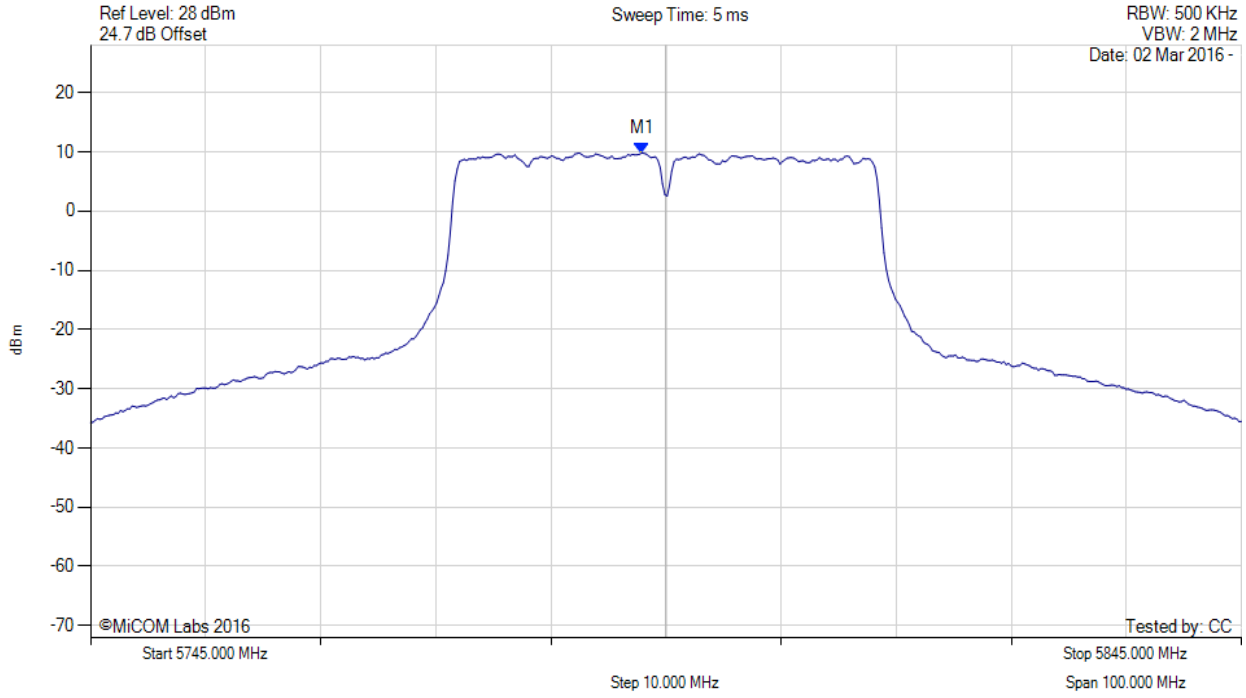


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.896 MHz : 5.935 dBm	Limit: ≤ 25.230 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

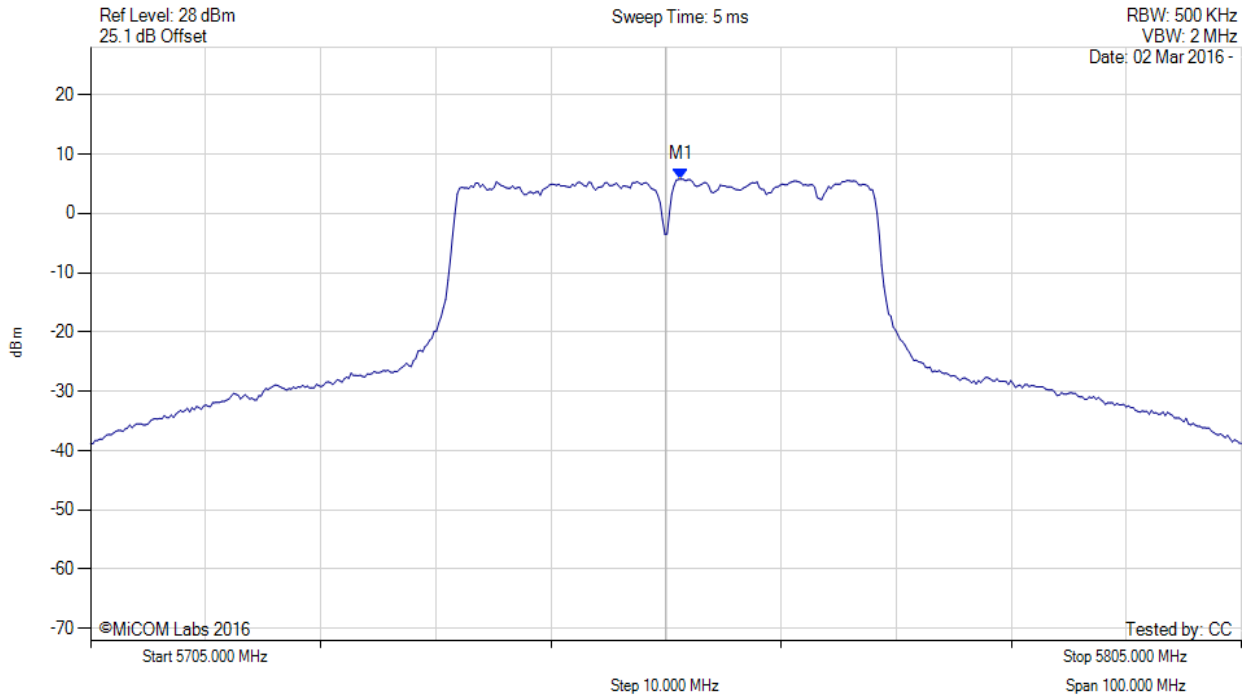


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5792.900 MHz : 9.825 dBm M1 + DCCF : 5792.900 MHz : 10.002 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -20.0 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

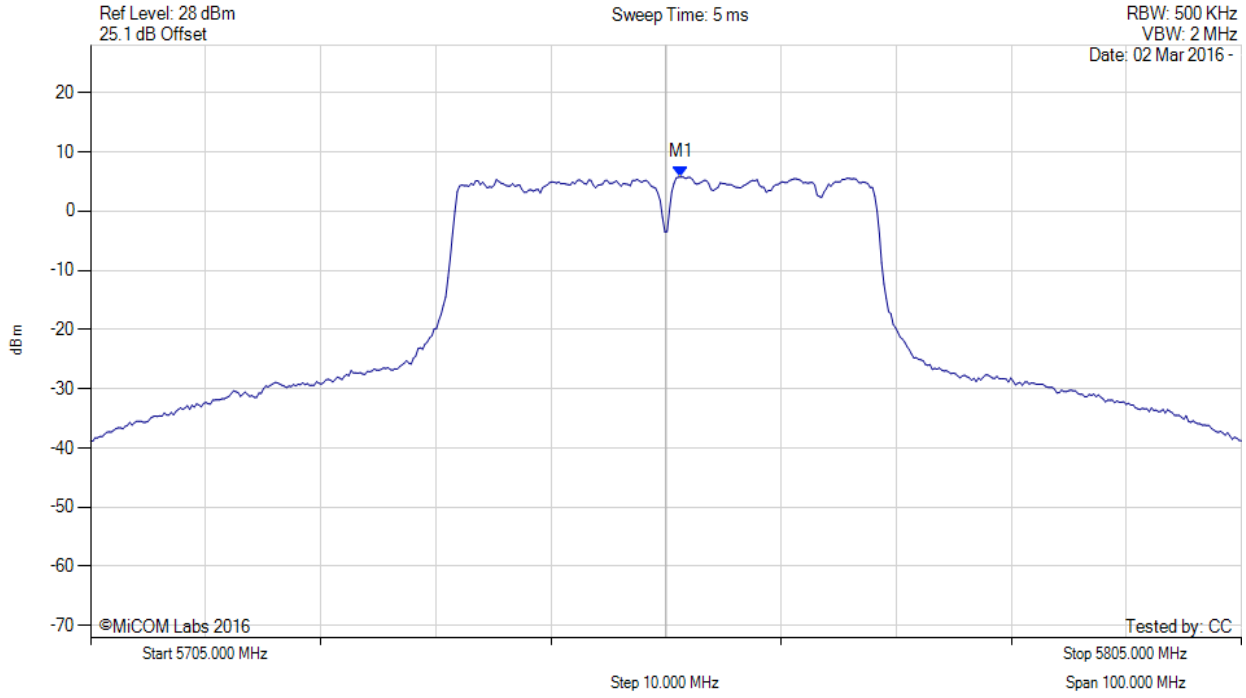


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5756.303 MHz : 5.746 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5755.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc

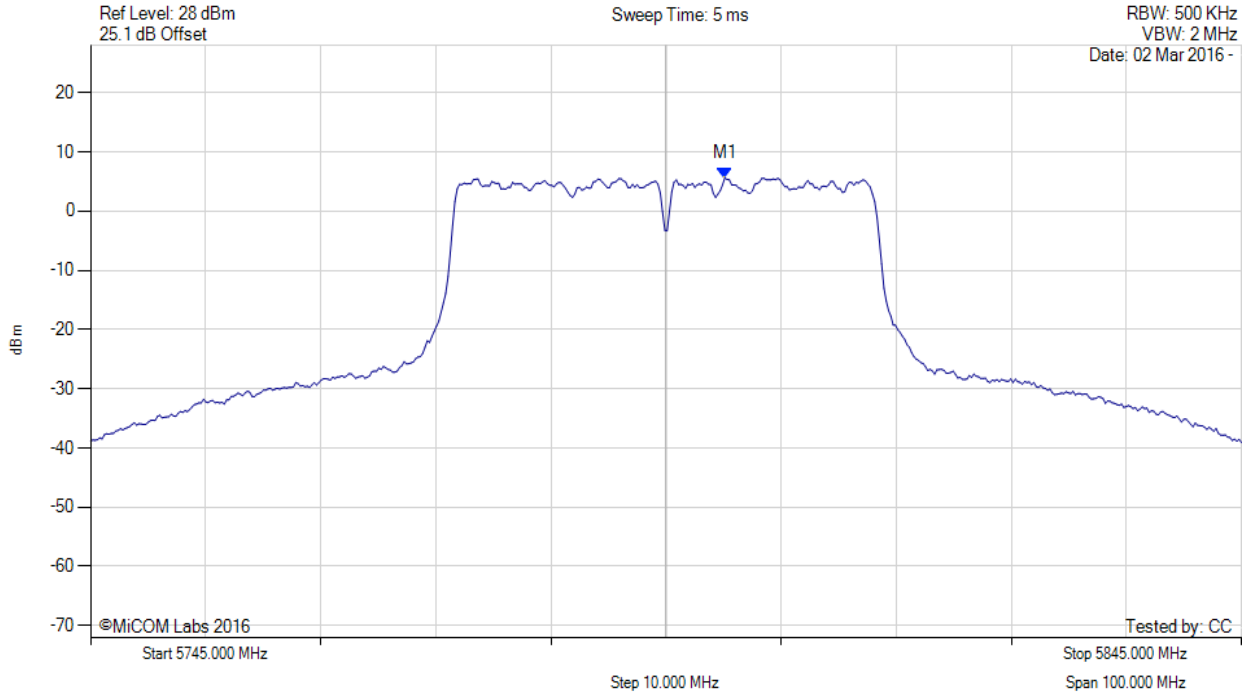


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5756.300 MHz : 5.746 dBm M1 + DCCF : 5756.300 MHz : 5.923 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -24.1 dB

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, Chain d, Temp: 20, Voltage: 12 Vdc

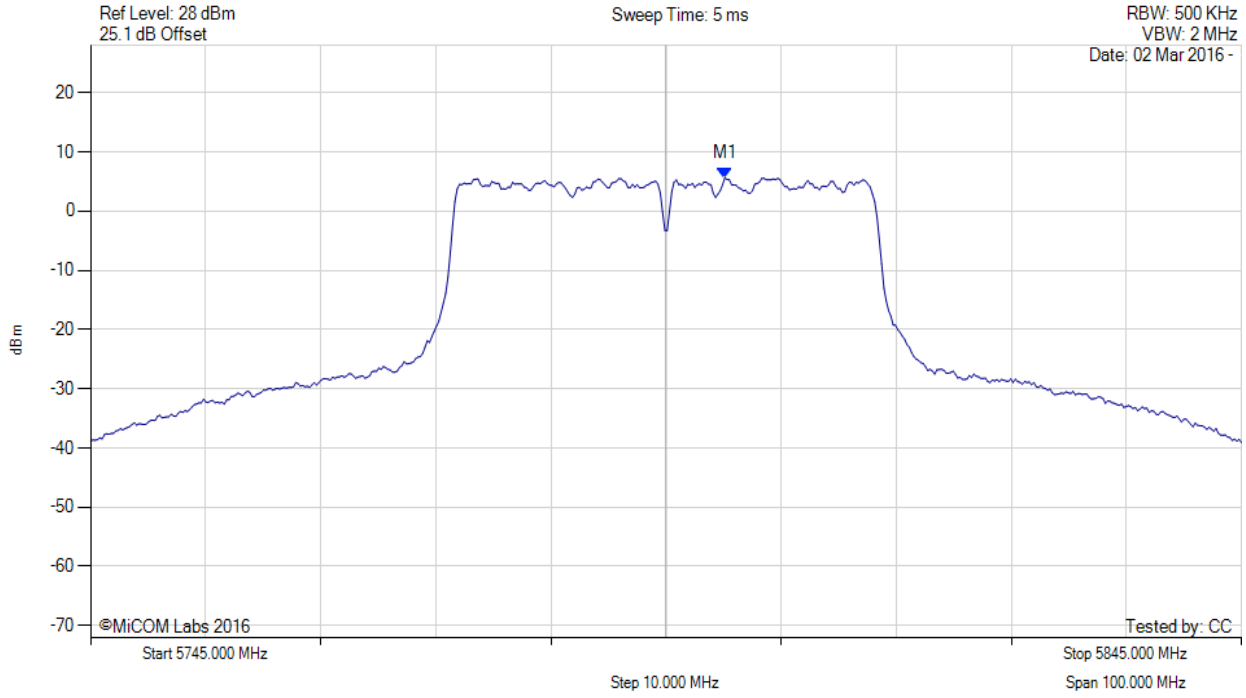


Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5800.110 MHz : 5.590 dBm	Limit: ≤ 30.000 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11n HT-40, Channel: 5795.00 MHz, SUM, Temp: 20, Voltage: 12 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5800.100 MHz : 5.590 dBm M1 + DCCF : 5800.100 MHz : 5.767 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 30.0 dBm Margin: -24.2 dB

back to matrix

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