



REGULATORY COMPLIANCE TEST REPORT

FCC CFR 47 15.407, RSS-247 Issue 2

Report No.: MIKO101-U12 Conducted Rev A

Company: Mikrotiks SIA (MikroTik)

Model Name: RB921GS-5HPacD-15S-US,
RB921GS-5HPacD-19S-US

REGULATORY COMPLIANCE TEST REPORT

Company: Mikrotikls SIA (MikroTik)

Model Name: RB921GS-5HPacD-15S-US, RB921GS-5HPacD-19S-US

To: FCC CFR 47 Part 15 Subpart E 15.407

Test Report Serial No.: MIKO101-U12 Conducted Rev A

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Applicant: Mikrotikls SIA (MikroTik)
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Latvia

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1. TEST RESULTS

1.1. Peak Transmit Power

Conducted Test Conditions for Maximum Conducted Output Power			
Standard:	FCC CFR 47:15.407 RSS-247 Issue 2	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Maximum Conducted Output Power	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.407 (a)(2) RSS-247: 6.2.2, 6.2.3	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for Maximum Conducted Output Power Measurement

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

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

Supporting Information

Calculated Power = $A + G + Y + 10 \log (1/x)$ dBm

A = Total Power [$10 \cdot \log_{10} (10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})$]

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 $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Operating Frequency Band 5725 – 5850 MHz

15. 407 (a)(3)

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

Equipment Configuration for Peak Transmit Power

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.04 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	4.72	5.53			8.19	22.685	15.00	-6.81	Default
5300.0	4.55	5.72			8.22	22.846	15.00	-6.78	Default
5320.0	4.68	5.78			8.32	22.926	15.00	-6.68	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results									
Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.86 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5290.0	3.02	4.06			7.44	90.100	15.00	-7.56	Default

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.09 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	4.45	5.30			8.00	24.128	15	-7.00	Default
5300.0	4.43	5.61			8.16	24.128	15	-6.84	Default
5320.0	4.61	5.75			8.32	23.808	15	-6.68	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.32 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5270.0	3.88	4.62			7.64	45.852	15	-7.36	Default
5310.0	3.99	5.07			7.93	46.493	15	-7.07	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.04 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	7.11	8.09			10.68	22.605	15.00	-4.32	Default
5580.0	7.28	8.59			11.03	22.846	15.00	-3.97	Default
5720.0	5.00	7.81			9.68	23.086	15.00	-5.32	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.86 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5530.0	4.93	6.59			9.67	90.10	15.00	-5.33	Default
5610.0	5.71	6.99			10.23	88.82	15.00	-4.77	Default
5690.0	4.26	6.70			9.48	90.10	15.00	-5.52	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.09 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	5.65	8.01			10.98	24.128	15.00	-4.02	Default
5580.0	7.21	8.52			11.90	24.128	15.00	-3.10	Default
5720.0	4.87	7.76			10.54	23.808	15.00	-4.46	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.32 dB)	Minimum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5510.0	5.13	7.31			9.73	46.012	15.00	-5.27	Default
5550.0	6.27	7.58			10.34	45.691	15.00	-4.66	Default
5710.0	4.70	7.26			9.54	46.172	15.00	-5.46	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

19 dBi Antenna (For ISSED RSS 247 EIRP Limits)

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results									
Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.04 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	2.22	2.98			5.63	17.074	27.00	-2.37	Default
5300.0	2.17	3.10			5.71	16.994	27.00	-2.29	Default
5320.0	2.52	3.19			5.92	17.074	27.00	-2.08	Default

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.86 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5290.0	0.37	1.33			4.75	76.633	27.00	-3.25	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.09 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5260.0	1.50	2.63			5.20	18.357	27.00	-2.80	Default
5300.0	1.86	2.92			5.52	18.277	27.00	-2.48	Default
5320.0	2.27	3.07			5.79	18.357	27.00	-2.21	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.32 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5270.0	1.01	2.03			4.92	37.355	27.00	-3.08	Default
5310.0	1.51	2.43			5.36	37.034	27.00	-2.64	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.04 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	3.14	3.97			6.63	16.994	27.00	-1.37	Default
5580.0	4.64	4.53			7.64	17.074	27.00	-0.36	Default
5720.0	1.77	4.17			6.18	17.074	27.00	-1.82	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.86 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5530.0	2.29	2.59			6.31	76.633	27.00	-1.69	Default
5610.0	2.73	3.03			6.75	76.313	27.00	-1.25	Default
5690.0	1.37	2.94			6.10	76.633	27.00	-1.90	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.09 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5500.0	3.04	3.91			6.60	18.277	27.00	-1.40	Default
5580.0	3.51	3.39			6.55	18.357	27.00	-1.45	Default
5720.0	1.36	3.00			5.36	18.357	27.00	-2.64	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm)				Calculated Total Power + DCCF (+0.32 dB)	Minimum 99% Bandwidth	EIRP Limit	Margin	EUT Power Setting
	Port(s)								
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dB	
5510.0	2.53	3.30			6.30	37.194	27.00	-1.70	Default
5550.0	3.70	3.67			7.06	37.194	27.00	-0.94	Default
5710.0	1.42	3.67			6.06	37.355	27.00	-1.94	Default

Traceability to Industry Recognized Test Methodologies

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

The above measurements include a Duty Cycle Correction Factor (DCCF).

1.2. 26 dB & 99% Bandwidth

Conducted Test Conditions for 26 dB and 99% Bandwidth			
Standard:	FCC CFR 47:15.407 RSS-247 Issue 2	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	26 dB and 99 % Bandwidth	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.407 (a) 2 RSS-247: 6.2.2; 6.2.3	Pressure (mBars):	999 - 1001
Reference Document(s):	See Normative References		

Test Procedure for 26 dB and 99% Bandwidth Measurement

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

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	23.808	22.685			23.808	22.685		
5300.0	23.727	22.846			23.727	22.846		
5320.0	23.567	22.926			23.567	22.926		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	17.475	17.074			17.475	17.074		
5300.0	17.315	16.994			17.315	16.994		
5320.0	17.395	17.074			17.395	17.074		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	
TPC:	Not Applicable	Tested By:	SB
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		
5290.0	91.703	90.100			91.703	90.100		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5290.0	76.954	76.633			76.954	76.633		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	24.449	24.128			24.449	24.128		
5300.0	24.208	24.128			24.208	24.128		
5320.0	24.289	23.808			24.289	23.808		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	18.517	18.357			18.517	18.357		
5300.0	18.437	18.277			18.437	18.277		
5320.0	18.437	18.357			18.437	18.357		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5270.0	47.134	45.852			47.134	45.852		
5310.0	48.096	46.493			48.096	46.493		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5270.0	37.515	37.355			37.515	37.355		
5310.0	37.515	37.034			37.515	37.034		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	23.567	22.605			23.567	22.605		
5580.0	24.128	22.846			24.128	22.846		
5720.0	23.327	23.086			23.327	23.086		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	17.315	16.994			17.315	16.994		
5580.0	17.555	17.074			17.555	17.074		
5720.0	17.475	17.074			17.475	17.074		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5530.0	90.100	90.421			90.421	90.100		
5610.0	88.818	90.100			90.100	88.818		
5690.0	92.345	90.100			92.345	90.100		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5530.0	76.954	76.633			76.954	76.633		
5610.0	76.313	76.633			76.633	76.313		
5690.0	76.633	76.633			76.633	76.633		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	24.128	24.208			24.208	24.128		
5580.0	25.251	23.808			25.251	23.808		
5720.0	24.529	24.048			24.529	24.048		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	18.437	18.277			18.437	18.277		
5580.0	18.597	18.357			18.597	18.357		
5720.0	18.517	18.357			18.517	18.357		

Traceability to Industry Recognized Test Methodologies

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

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5510.0	46.012	46.172			46.172	46.012		
5550.0	48.577	45.691			48.577	45.691		
5710.0	47.615	46.172			47.615	46.172		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5510.0	37.675	37.194			37.675	37.194		
5550.0	37.515	37.194			37.515	37.194		
5710.0	37.515	37.355			37.515	37.355		

Traceability to Industry Recognized Test Methodologies

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

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

1.3. Power Spectral Density

Conducted Test Conditions for Power Spectral Density			
Standard:	FCC CFR 47:15.407 ISED RSS-247	Ambient Temp. (°C):	24.0 - 27.5
Test Heading:	Power Spectral Density	Rel. Humidity (%):	32 - 45
Standard Section(s):	15.407 (a)(2) RSS-247: 6.2.2, 6.2.3	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 (â) 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 = $A + 10 \log (1/x) \text{ dBm}$

$A = \text{Total Power Spectral Density } [10 \cdot \log_{10} (10^{a/10} + 10^{b/10} + 10^{c/10} + 10^{d/10})]$

x = Duty Cycle

Limits Power Spectral Density

Operating Frequency Band 5150-5250 MHz

15.407 (a)(1)

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

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

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

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

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

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

15. 407 (a)(2)

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

Operating Frequency Band 5725 – 5850 MHz

15. 407 (a)(3)

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

Equipment Configuration for Power Spectral Density

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	-8.179	-7.103			-4.666	2.0	-6.7
5300.0	-7.995	-7.158			-4.544	2.0	-6.6
5320.0	-7.888	-6.902			-4.348	2.0	-6.4

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:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.86 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5290.0	-16.708	-15.438			-12.170	2.0	-14.2

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).

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	-9.116	-8.001			-5.606	2.0	-7.6
5300.0	-8.751	-7.899			-5.295	2.0	-7.3
5320.0	-8.669	-7.665			-5.070	2.0	-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).

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.36 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5270.0	-12.120	-11.423			-8.422	2.0	-10.4
5310.0	-11.982	-11.259			-8.335	2.0	-10.3

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5500.0	-6.328	-5.431			-2.876	2.0	-4.9
5580.0	-5.906	-4.761			-2.424	2.0	-4.4
5720.0	-7.402	-5.268			-3.183	2.0	-5.2

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).

Equipment Configuration for Power Spectral Density

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.86 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5530.0	-14.685	-13.102			-9.963	2.0	-12.0
5610.0	-13.722	-12.483			-9.249	2.0	-11.3
5690.0	-14.244	-12.766			-9.627	2.0	-11.6

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5500.0	-8.088	-5.829			-3.739	2.0	-5.7
5580.0	-6.257	-5.504			-2.922	2.0	-4.9
5720.0	-7.675	-5.780			-3.552	2.0	-5.6

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	15.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.36 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5510.0	-10.401	-9.092			-6.366	2.0	-8.4
5550.0	-9.817	-8.965			-6.040	2.0	-8.1
5710.0	-11.059	-9.896			-7.084	2.0	-9.1

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).

19 dBi Antenna (For ISSED RSS 247 Limits)

Equipment Configuration for Power Spectral Density

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	-10.615	-9.128			-7.185	-2.0	-5.2
5300.0	-9.594	-9.376			-6.566	-2.0	-4.6
5320.0	-9.702	-9.020			-6.807	-2.0	-4.8

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.86 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5290.0	-20.743	-18.703			-16.491	-2.0	-14.5

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-20	Duty Cycle (%):	98.0
Data Rate:	6.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	-11.181	-9.534			-7.799	-2.0	-5.8
5300.0	-10.567	-9.417			-7.244	-2.0	-5.3
5320.0	-9.973	-9.728			-6.796	-2.0	-4.8

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.36 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5270.0	-14.925	-14.319			-12.082	-2.0	-10.1
5310.0	-14.415	-13.560			-11.169	-2.0	-9.2

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).

Equipment Configuration for Power Spectral Density

Variant:	802.11a	Duty Cycle (%):	99.0
Data Rate:	6.00 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.04 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5500.0	-9.503	-8.633			-6.358	-2.0	-4.4
5580.0	-8.016	-7.531			-5.211	-2.0	-3.2
5720.0	-10.235	-7.999			-6.239	-2.0	-4.2

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).

Equipment Configuration for Power Spectral Density

Variant:	802.11ac-80	Duty Cycle (%):	82.0
Data Rate:	29.30 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.86 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5530.0	-19.215	-18.939			-15.583	-2.0	-13.6
5610.0	-18.668	-18.157			-14.887	-2.0	-12.9
5690.0	-18.254	-18.380			-15.367	-2.0	-13.4

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):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.09 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5500.0	-9.134	-9.104			-6.127	-2.0	-4.1
5580.0	-9.512	-9.200			-6.658	-2.0	-4.7
5720.0	-10.964	-10.120			-8.000	-2.0	-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

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

Equipment Configuration for Power Spectral Density

Variant:	802.11n HT-40	Duty Cycle (%):	92.0
Data Rate:	13.50 MBit/s	Antenna Gain (dBi):	19.00
Modulation:	OFDM	Beam Forming Gain (Y)(dB):	Not Applicable
TPC:	Not Applicable	Tested By:	SB
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density				Summation Peak Marker + DCCF (+0.36 dB)	Limit	Margin
	Port(s) (dBm/MHz)						
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5510.0	-12.543	-13.222			-9.750	-2.0	-7.8
5550.0	-12.780	-12.070			-9.935	-2.0	-7.9
5710.0	-14.180	-12.545			-10.566	-2.0	-8.6

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

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

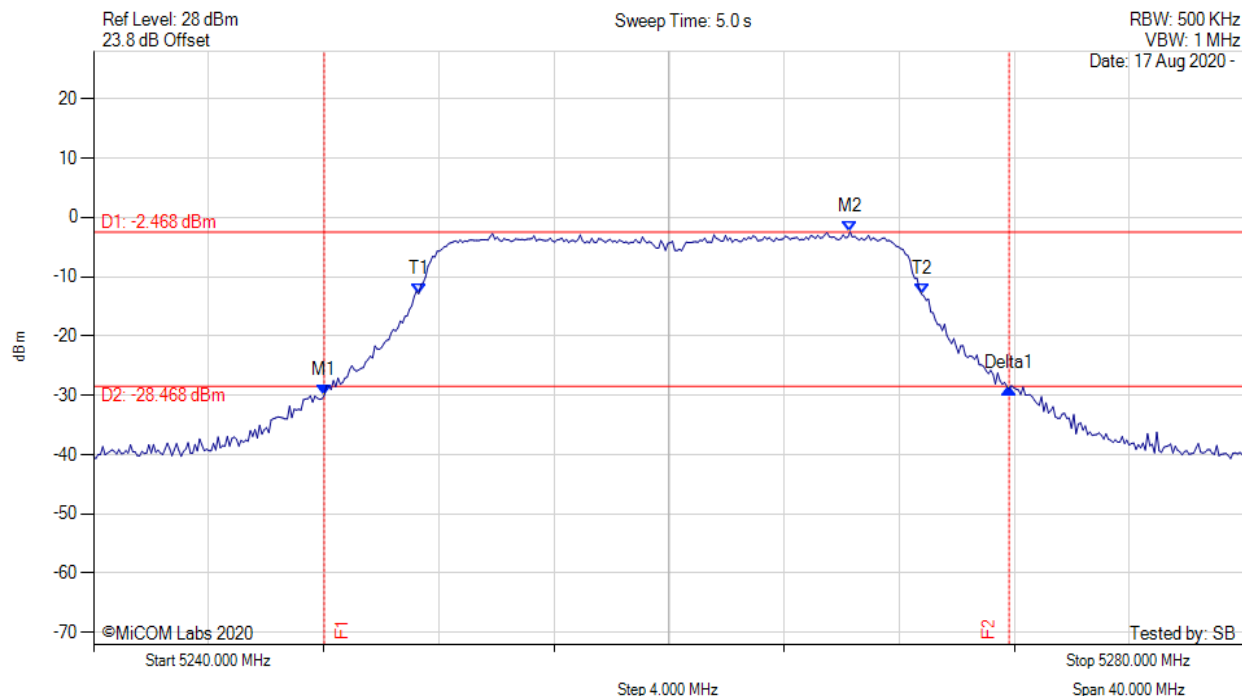
A. APPENDIX - GRAPHICAL IMAGES

A.1. 26 dB & 99% Bandwidth



26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



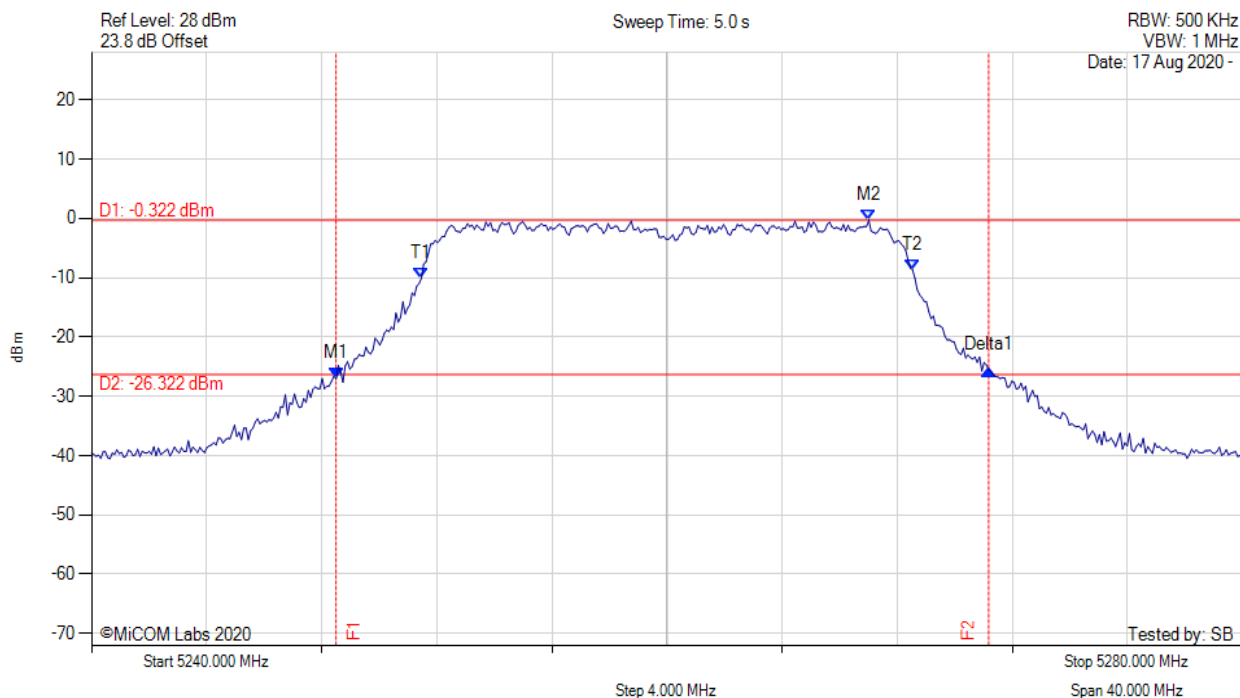
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.016 MHz : -30.055 dBm M2 : 5266.293 MHz : -2.468 dBm Delta1 : 23.808 MHz : 1.145 dB T1 : 5251.303 MHz : -12.897 dBm T2 : 5268.778 MHz : -12.943 dBm OBW : 17.475 MHz	Measured 26 dB Bandwidth: 23.808 MHz Measured 99% Bandwidth: 17.475 MHz

[back to matrix](#)

26 dB & 99% BANDWIDTH



Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



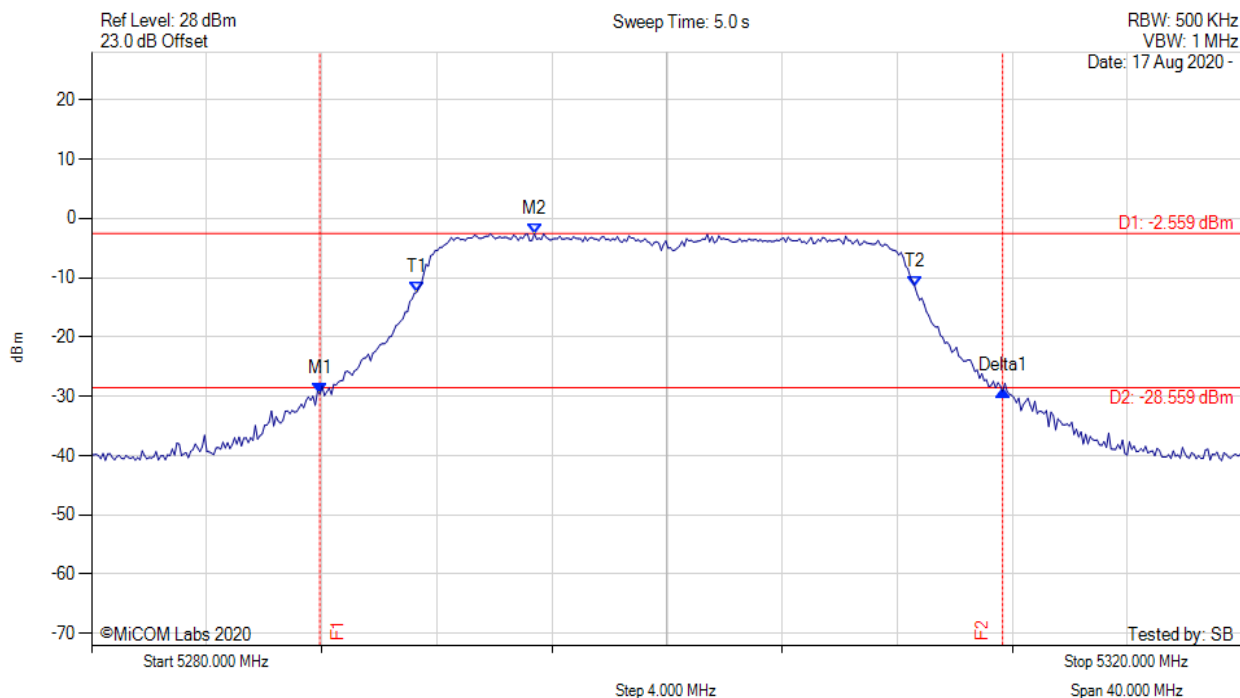
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5248.497 MHz : -27.043 dBm M2 : 5267.014 MHz : -0.322 dBm Delta1 : 22.685 MHz : 1.554 dB T1 : 5251.463 MHz : -10.114 dBm T2 : 5268.537 MHz : -8.697 dBm OBW : 17.074 MHz	Measured 26 dB Bandwidth: 22.685 MHz Measured 99% Bandwidth: 17.074 MHz

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26 dB & 99% BANDWIDTH

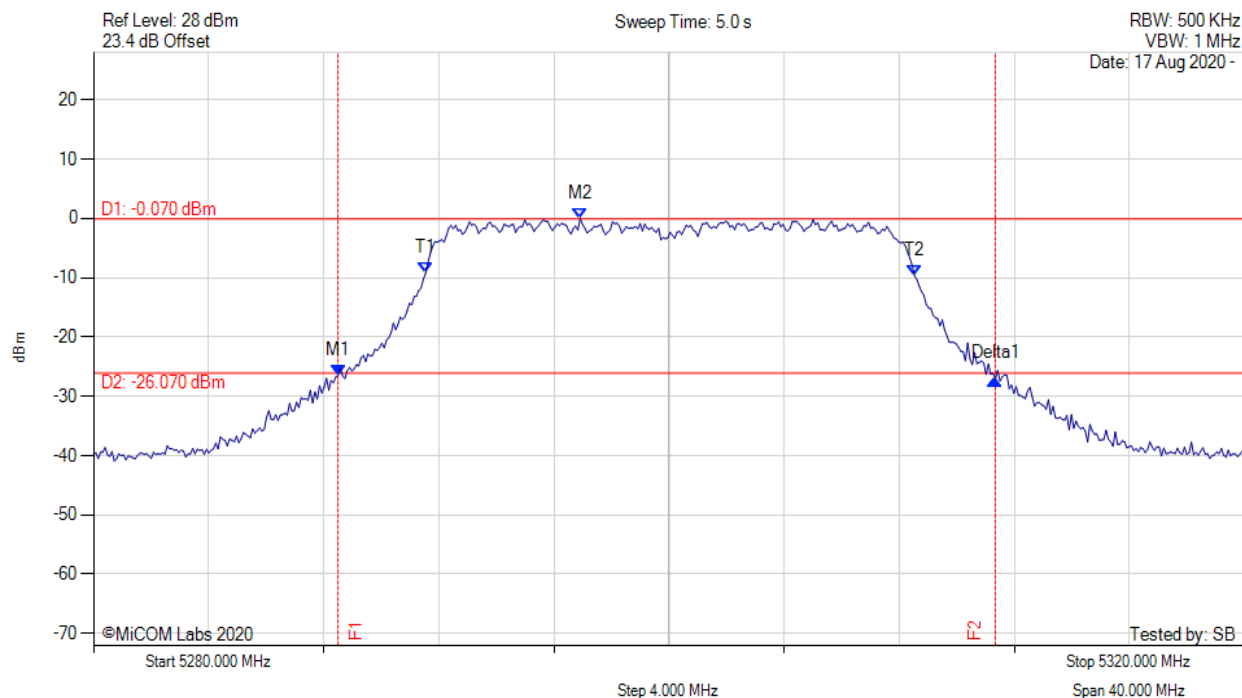


Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.936 MHz : -29.614 dBm M2 : 5295.391 MHz : -2.559 dBm Delta1 : 23.727 MHz : 0.502 dB T1 : 5291.303 MHz : -12.457 dBm T2 : 5308.617 MHz : -11.567 dBm OBW : 17.315 MHz	Measured 26 dB Bandwidth: 23.727 MHz Measured 99% Bandwidth: 17.315 MHz

[back to matrix](#)



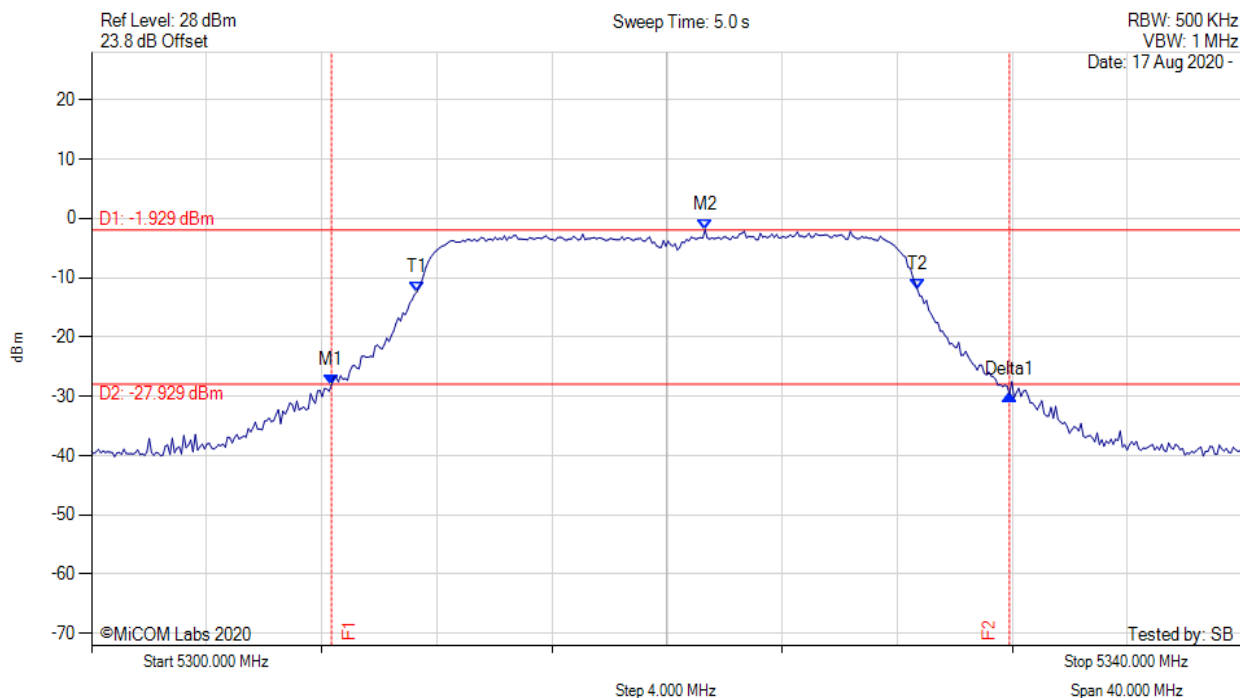
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5288.497 MHz : -26.441 dBm M2 : 5296.914 MHz : -0.070 dBm Delta1 : 22.846 MHz : -0.622 dB T1 : 5291.543 MHz : -9.218 dBm T2 : 5308.537 MHz : -9.685 dBm OBW : 16.994 MHz	Measured 26 dB Bandwidth: 22.846 MHz Measured 99% Bandwidth: 16.994 MHz

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26 dB & 99% BANDWIDTH



Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



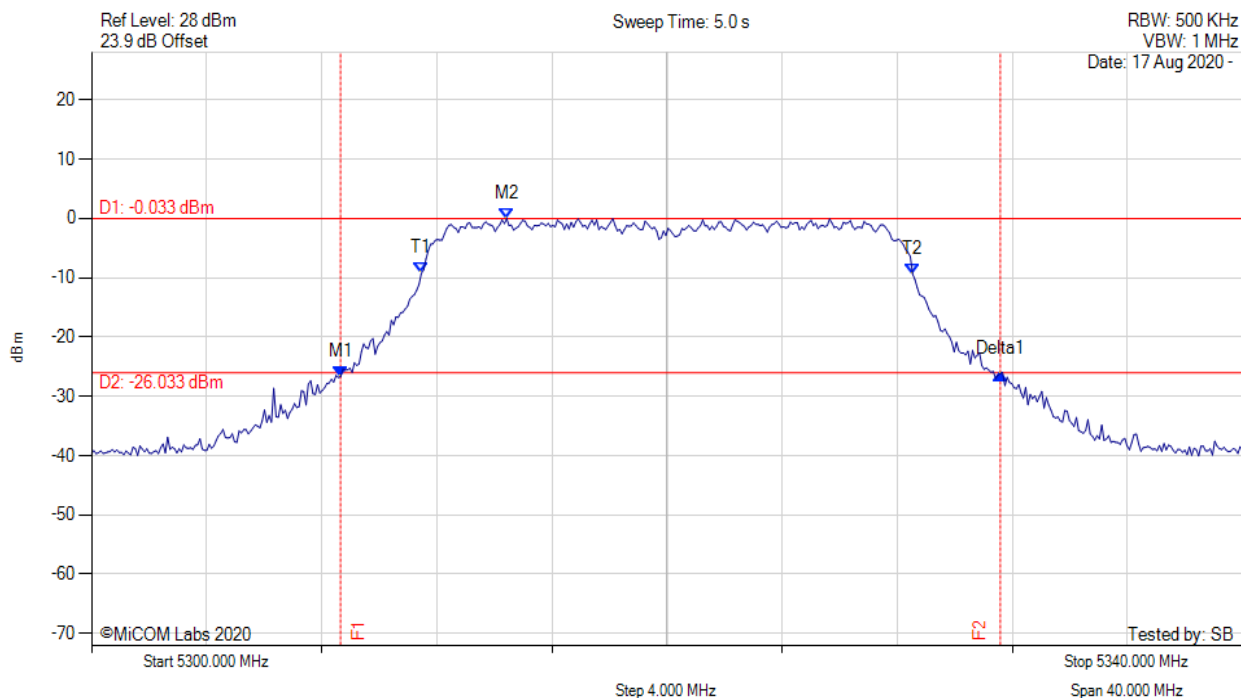
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5308.337 MHz : -28.111 dBm M2 : 5321.323 MHz : -1.929 dBm Delta1 : 23.567 MHz : -1.582 dB T1 : 5311.303 MHz : -12.439 dBm T2 : 5328.697 MHz : -11.904 dBm OBW : 17.395 MHz	Measured 26 dB Bandwidth: 23.567 MHz Measured 99% Bandwidth: 17.395 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



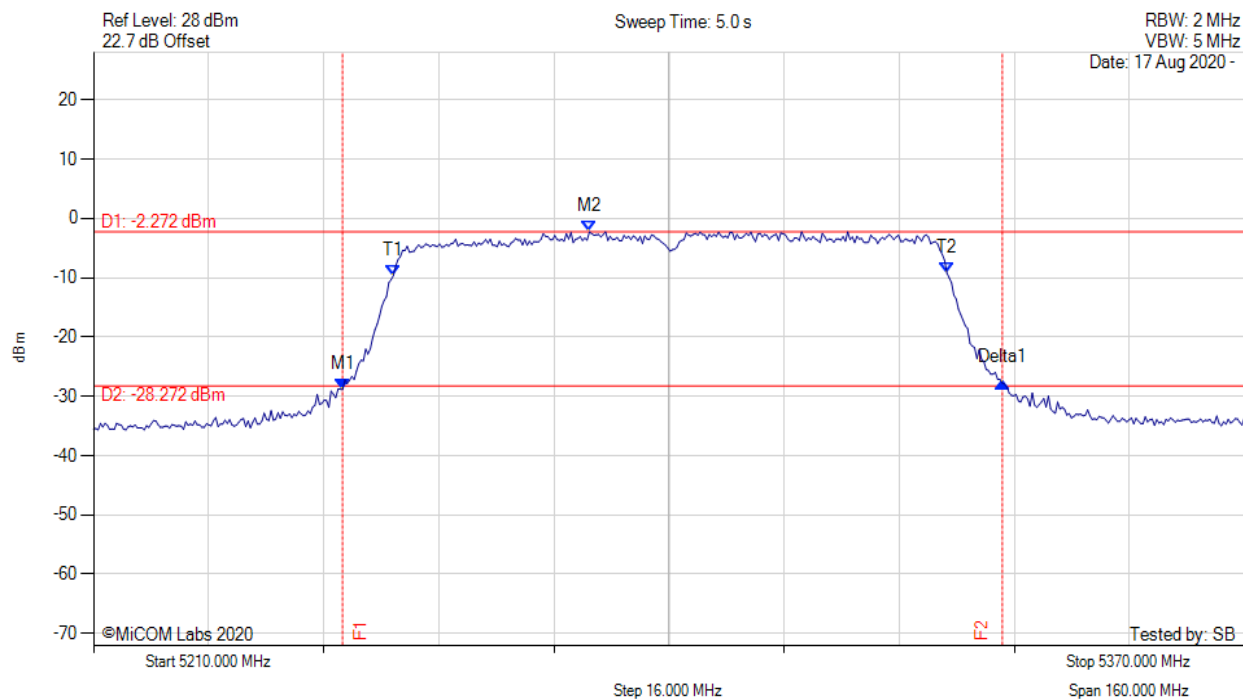
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5308.657 MHz : -26.700 dBm M2 : 5314.429 MHz : -0.033 dBm Delta1 : 22.926 MHz : 0.545 dB T1 : 5311.463 MHz : -9.283 dBm T2 : 5328.537 MHz : -9.376 dBm OBW : 17.074 MHz	Measured 26 dB Bandwidth: 22.926 MHz Measured 99% Bandwidth: 17.074 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



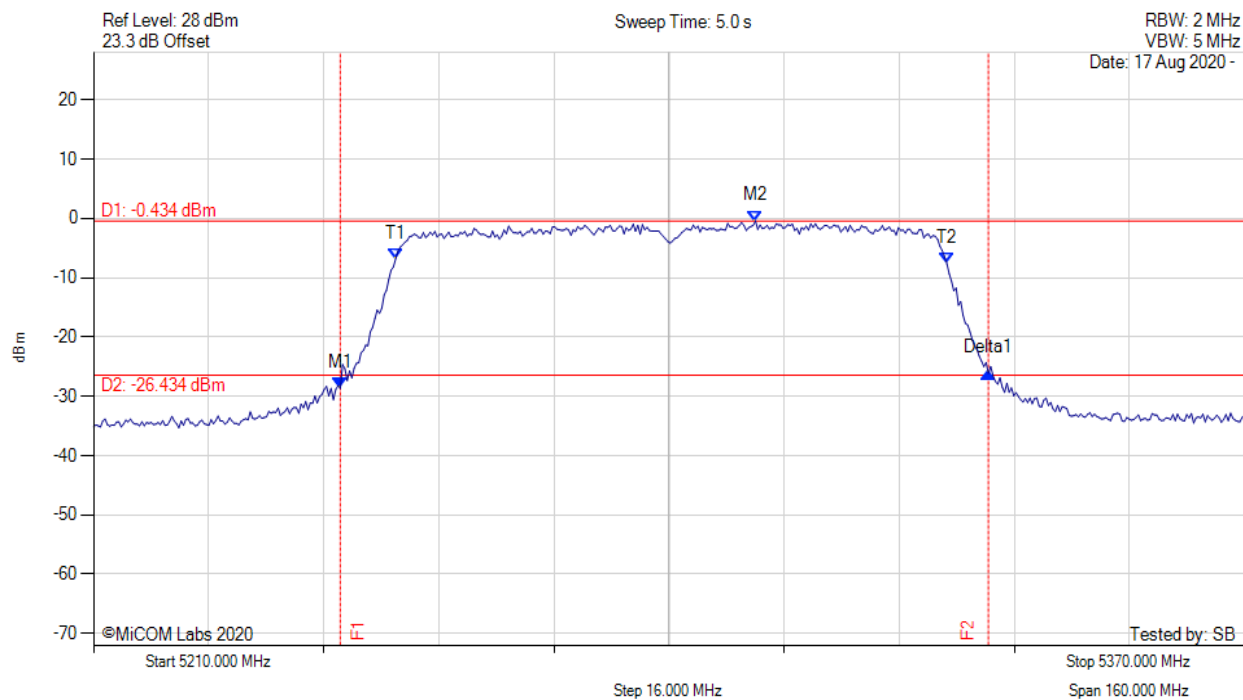
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5244.629 MHz : -28.862 dBm M2 : 5278.938 MHz : -2.272 dBm Delta1 : 91.703 MHz : 1.127 dB T1 : 5251.683 MHz : -9.649 dBm T2 : 5328.637 MHz : -9.250 dBm OBW : 76.954 MHz	Measured 26 dB Bandwidth: 91.703 MHz Measured 99% Bandwidth: 76.954 MHz

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26 dB & 99% BANDWIDTH



Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



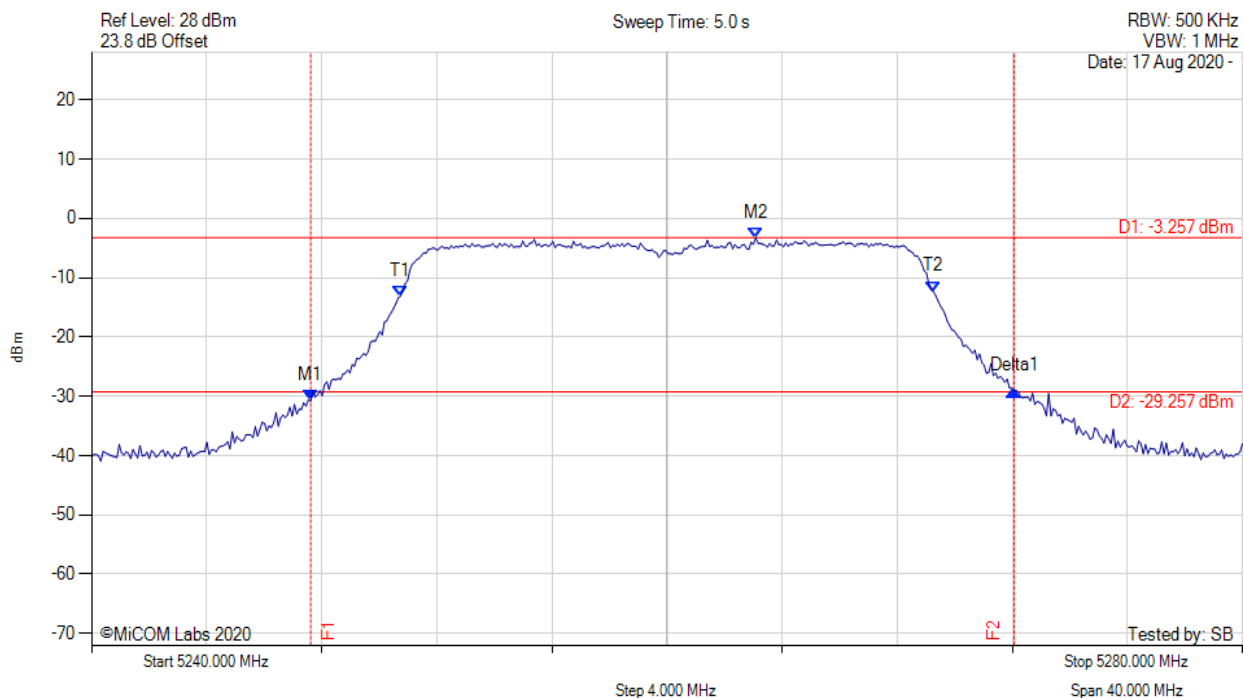
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5244.309 MHz : -28.662 dBm M2 : 5302.024 MHz : -0.434 dBm Delta1 : 90.100 MHz : 2.548 dB T1 : 5252.004 MHz : -6.818 dBm T2 : 5328.637 MHz : -7.641 dBm OBW : 76.633 MHz	Measured 26 dB Bandwidth: 90.100 MHz Measured 99% Bandwidth: 76.633 MHz

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26 dB & 99% BANDWIDTH

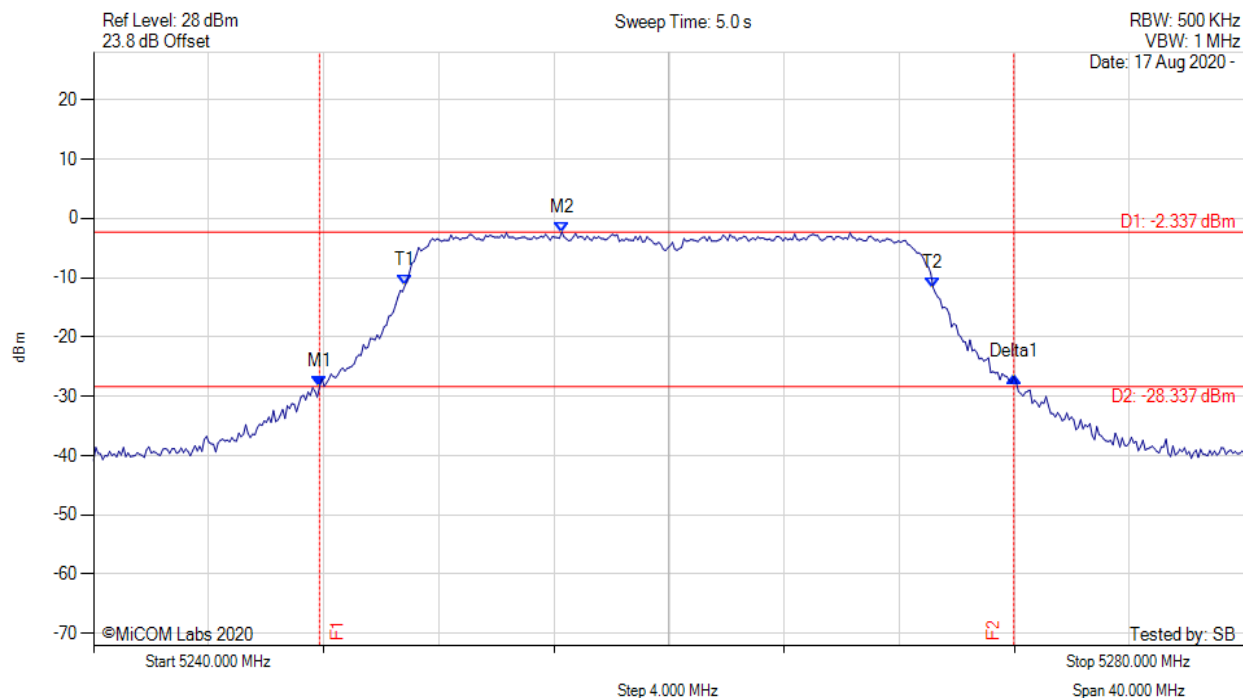


Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.615 MHz : -30.749 dBm M2 : 5263.086 MHz : -3.257 dBm Delta1 : 24.449 MHz : 1.743 dB T1 : 5250.741 MHz : -13.074 dBm T2 : 5269.259 MHz : -12.343 dBm OBW : 18.517 MHz	Measured 26 dB Bandwidth: 24.449 MHz Measured 99% Bandwidth: 18.517 MHz

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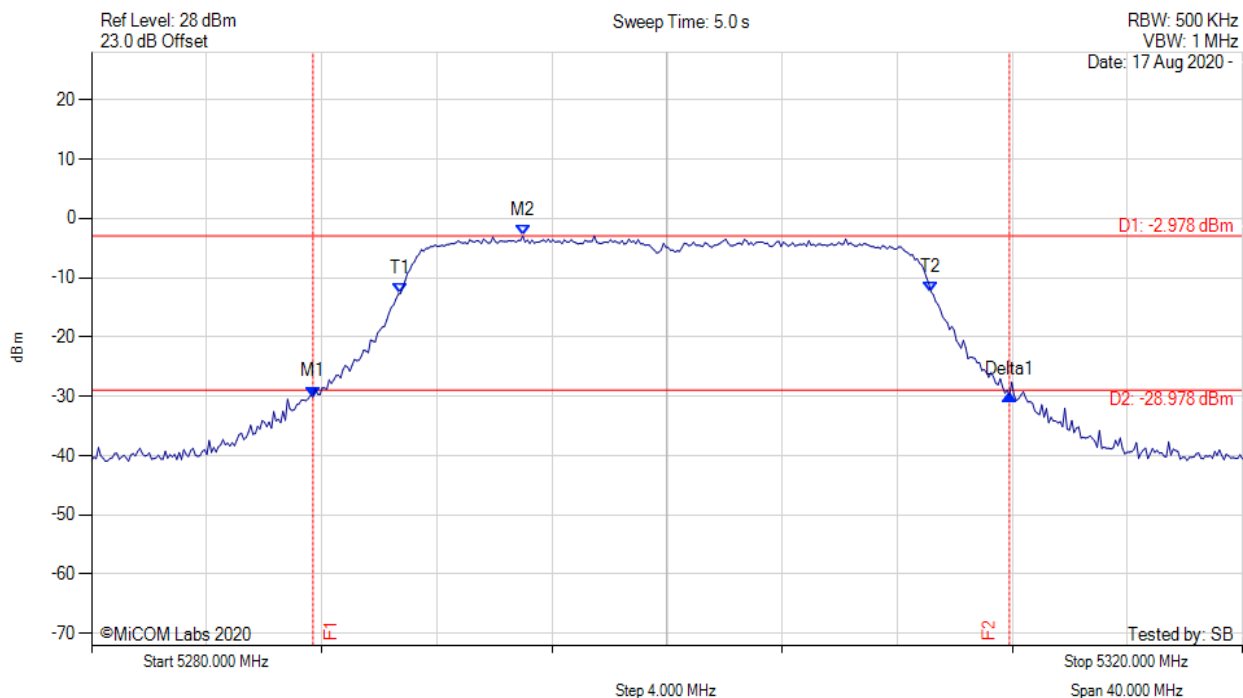
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5247.856 MHz : -28.398 dBm M2 : 5256.273 MHz : -2.337 dBm Delta1 : 24.128 MHz : 1.771 dB T1 : 5250.822 MHz : -11.294 dBm T2 : 5269.178 MHz : -11.676 dBm OBW : 18.357 MHz	Measured 26 dB Bandwidth: 24.128 MHz Measured 99% Bandwidth: 18.357 MHz

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26 dB & 99% BANDWIDTH

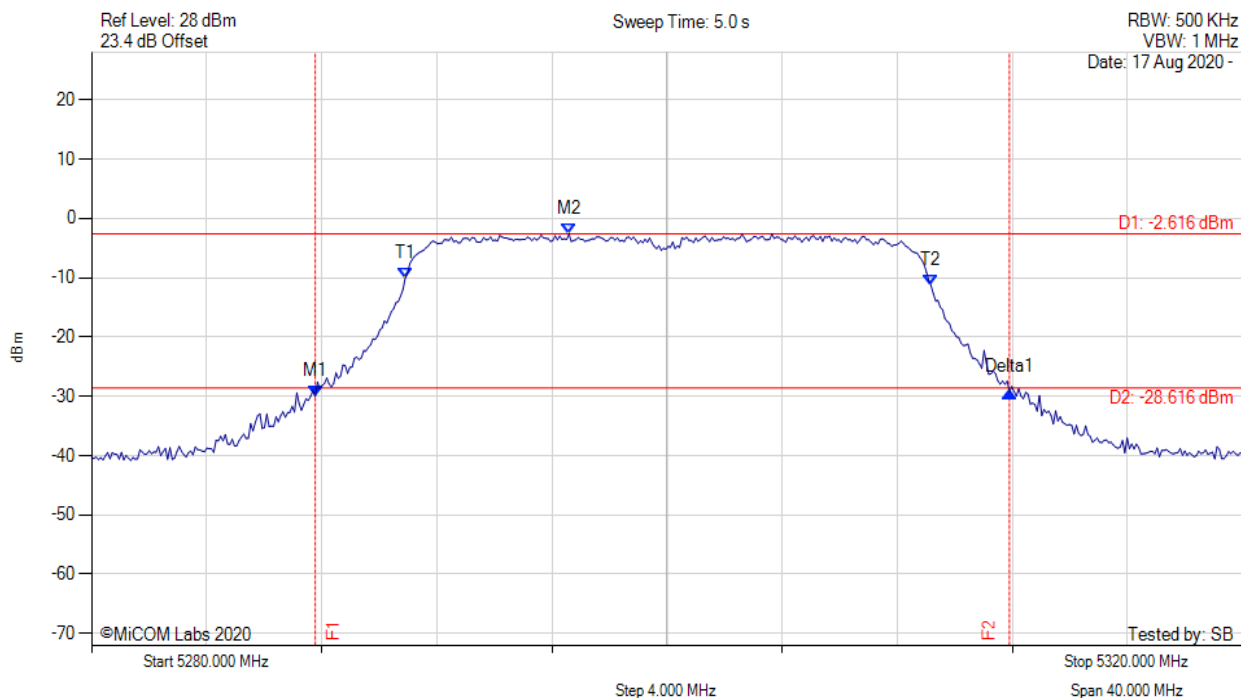


Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



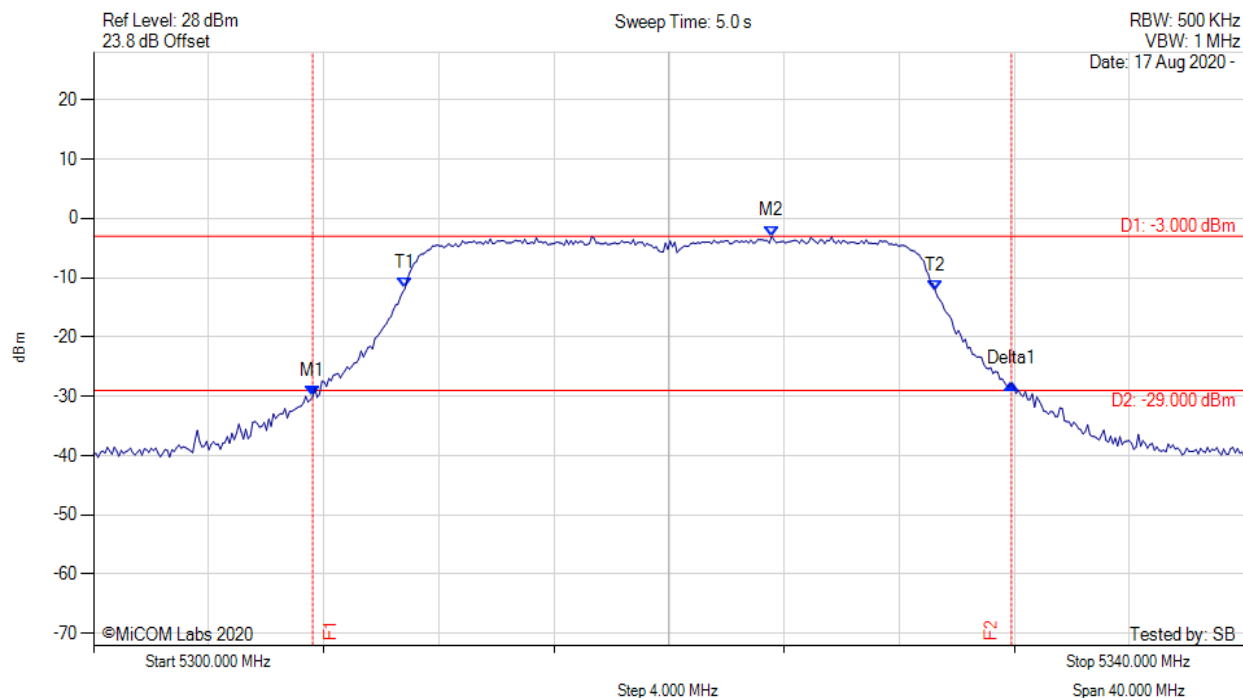
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.695 MHz : -30.106 dBm M2 : 5294.990 MHz : -2.978 dBm Delta1 : 24.208 MHz : 0.368 dB T1 : 5290.741 MHz : -12.675 dBm T2 : 5309.178 MHz : -12.413 dBm OBW : 18.437 MHz	Measured 26 dB Bandwidth: 24.208 MHz Measured 99% Bandwidth: 18.437 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5287.776 MHz : -30.041 dBm M2 : 5296.593 MHz : -2.616 dBm Delta1 : 24.128 MHz : 0.805 dB T1 : 5290.902 MHz : -10.082 dBm T2 : 5309.178 MHz : -11.369 dBm OBW : 18.277 MHz	Measured 26 dB Bandwidth: 24.128 MHz Measured 99% Bandwidth: 18.277 MHz

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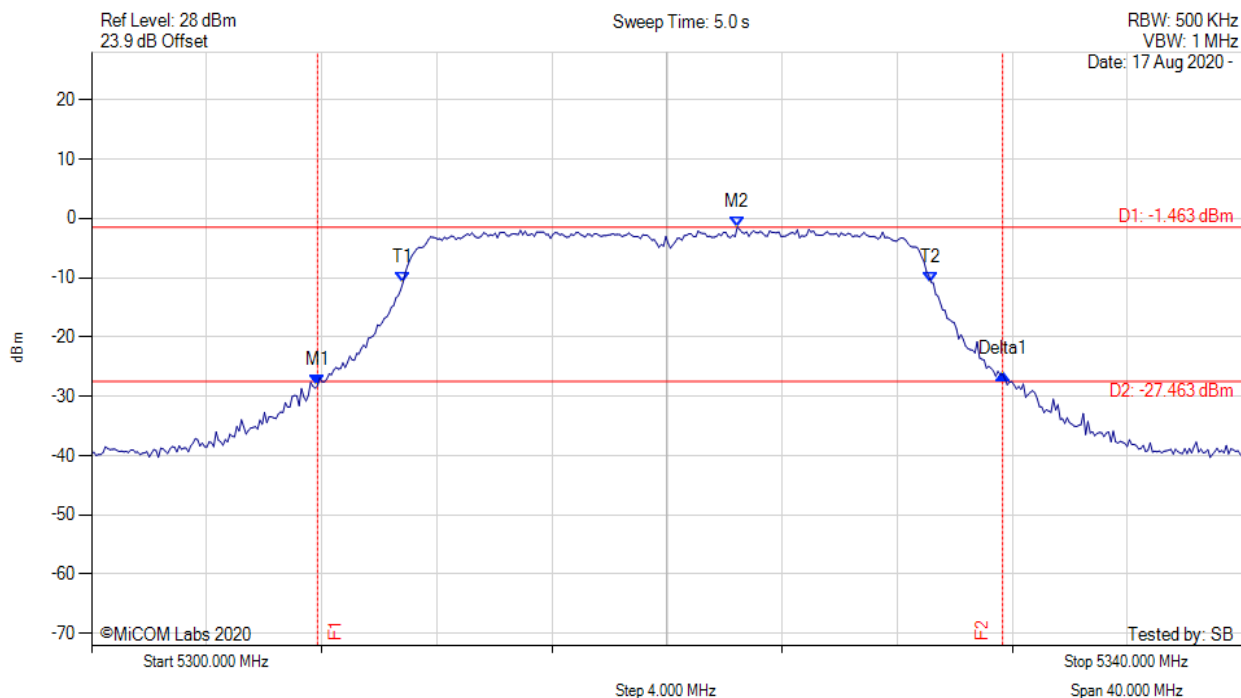
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.615 MHz : -30.074 dBm M2 : 5323.567 MHz : -3.000 dBm Delta1 : 24.289 MHz : 2.235 dB T1 : 5310.822 MHz : -11.833 dBm T2 : 5329.259 MHz : -12.242 dBm OBW : 18.437 MHz	Measured 26 dB Bandwidth: 24.289 MHz Measured 99% Bandwidth: 18.437 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



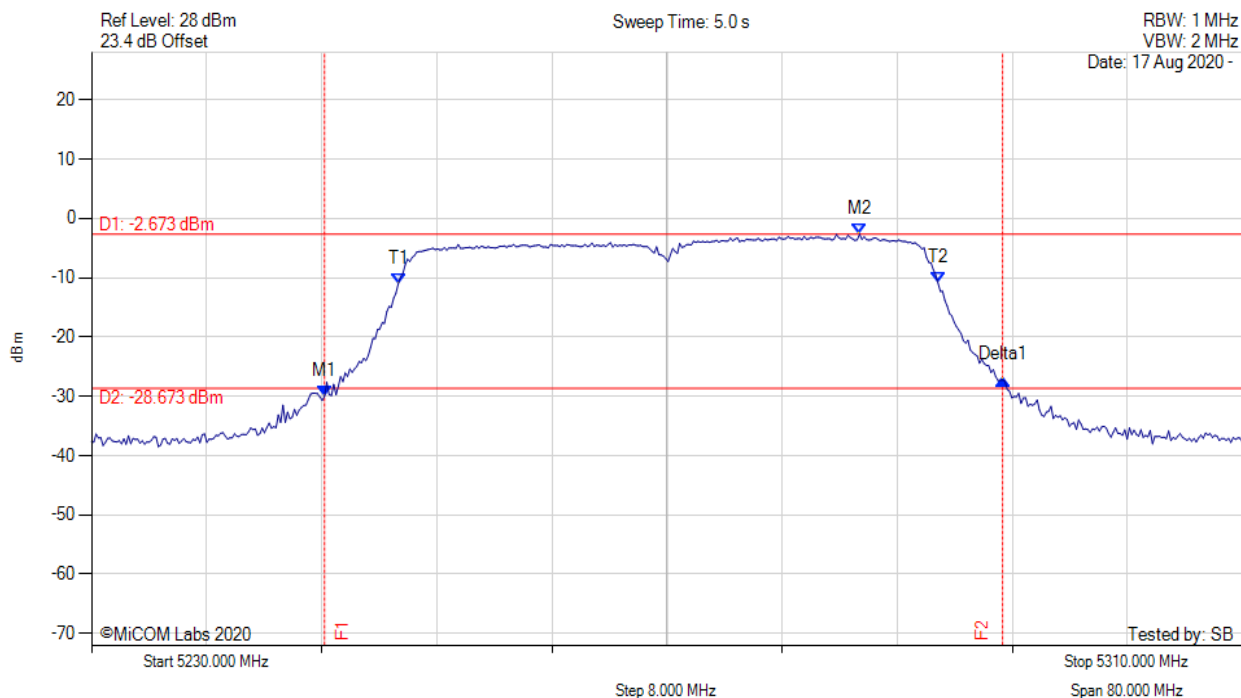
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5307.856 MHz : -28.188 dBm M2 : 5322.445 MHz : -1.463 dBm Delta1 : 23.808 MHz : 1.926 dB T1 : 5310.822 MHz : -10.836 dBm T2 : 5329.178 MHz : -10.808 dBm OBW : 18.357 MHz	Measured 26 dB Bandwidth: 23.808 MHz Measured 99% Bandwidth: 18.357 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



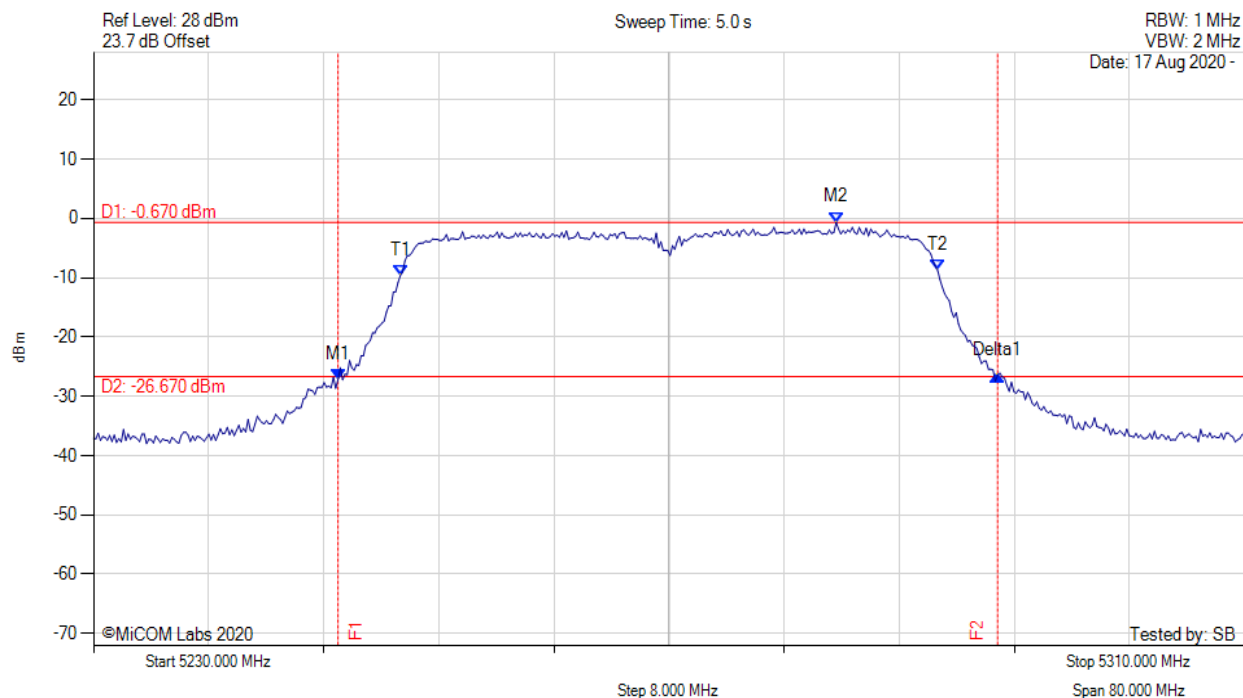
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5246.192 MHz : -30.011 dBm M2 : 5283.387 MHz : -2.673 dBm Delta1 : 47.134 MHz : 2.776 dB T1 : 5251.323 MHz : -10.995 dBm T2 : 5288.838 MHz : -10.855 dBm OBW : 37.515 MHz	Measured 26 dB Bandwidth: 47.134 MHz Measured 99% Bandwidth: 37.515 MHz

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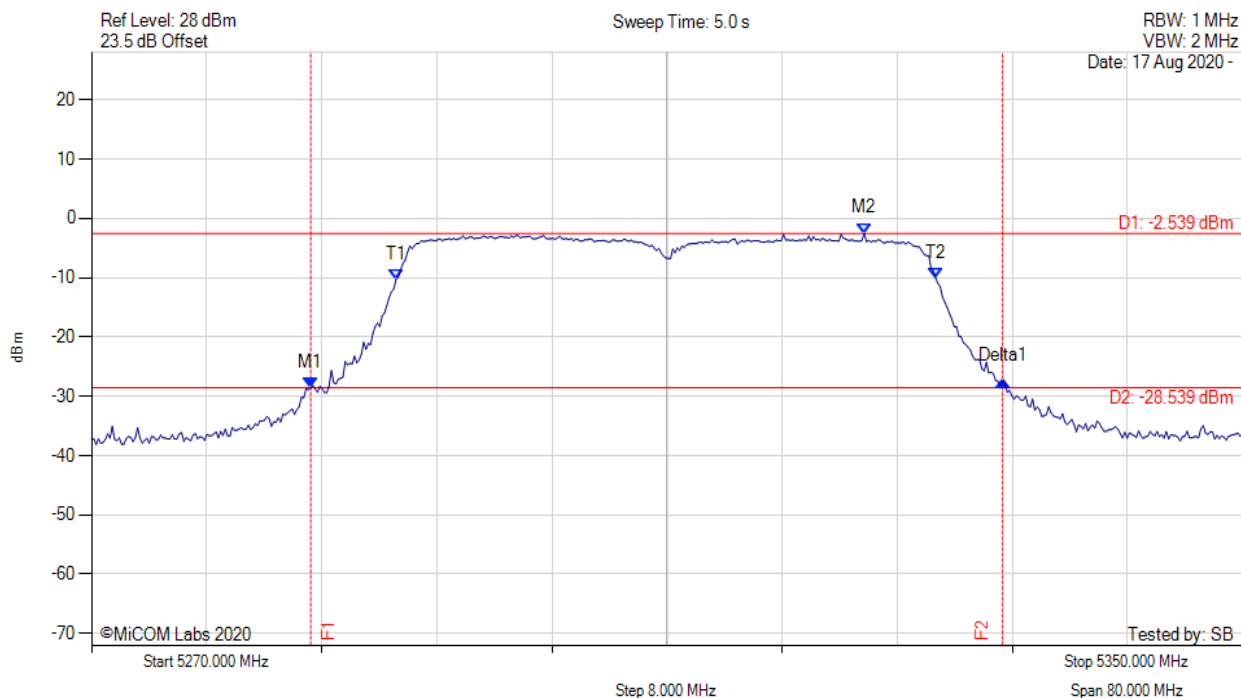
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5246.994 MHz : -27.119 dBm M2 : 5281.623 MHz : -0.670 dBm Delta1 : 45.852 MHz : 0.647 dB T1 : 5251.323 MHz : -9.653 dBm T2 : 5288.677 MHz : -8.792 dBm OBW : 37.355 MHz	Measured 26 dB Bandwidth: 45.852 MHz Measured 99% Bandwidth: 37.355 MHz

[back to matrix](#)



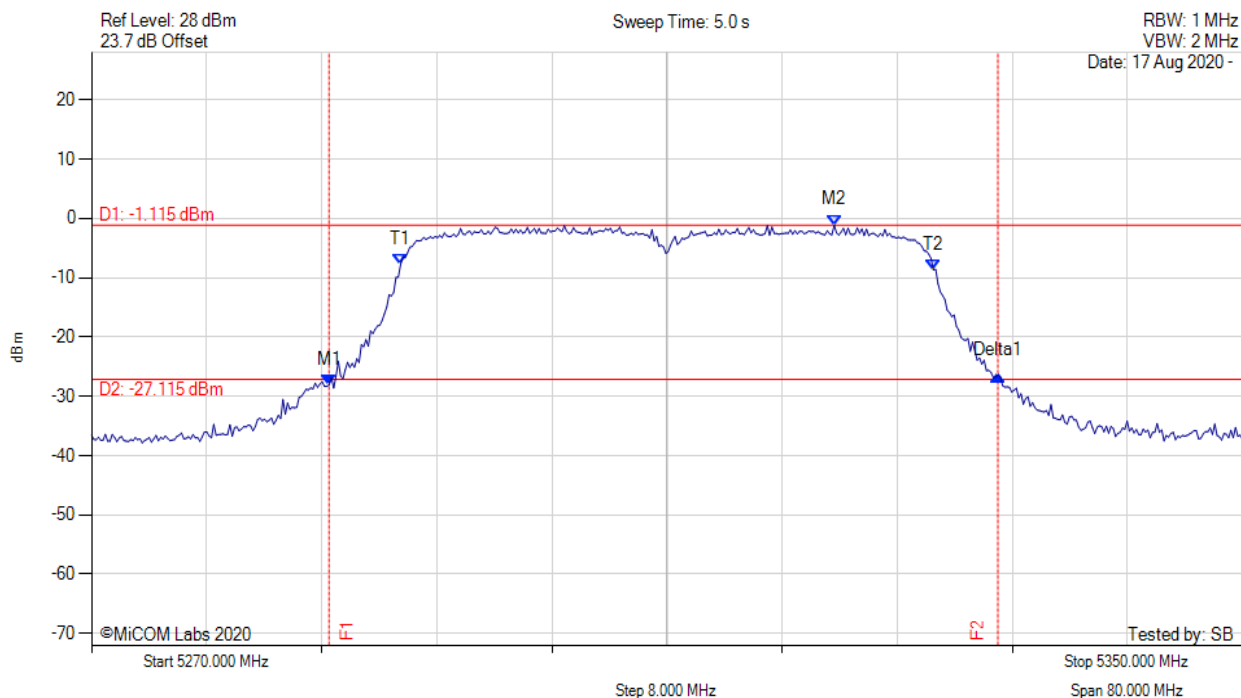
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5285.230 MHz : -28.581 dBm M2 : 5323.707 MHz : -2.539 dBm Delta1 : 48.096 MHz : 1.114 dB T1 : 5291.162 MHz : -10.287 dBm T2 : 5328.677 MHz : -10.119 dBm OBW : 37.515 MHz	Measured 26 dB Bandwidth: 48.096 MHz Measured 99% Bandwidth: 37.515 MHz

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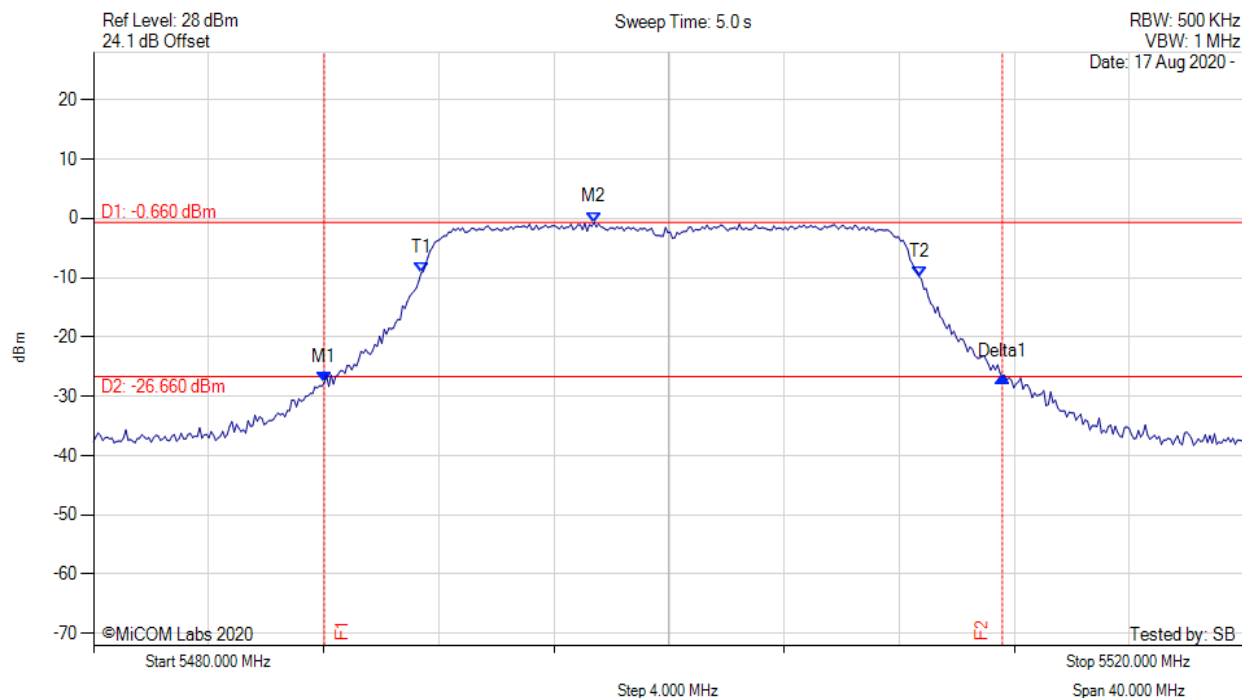
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



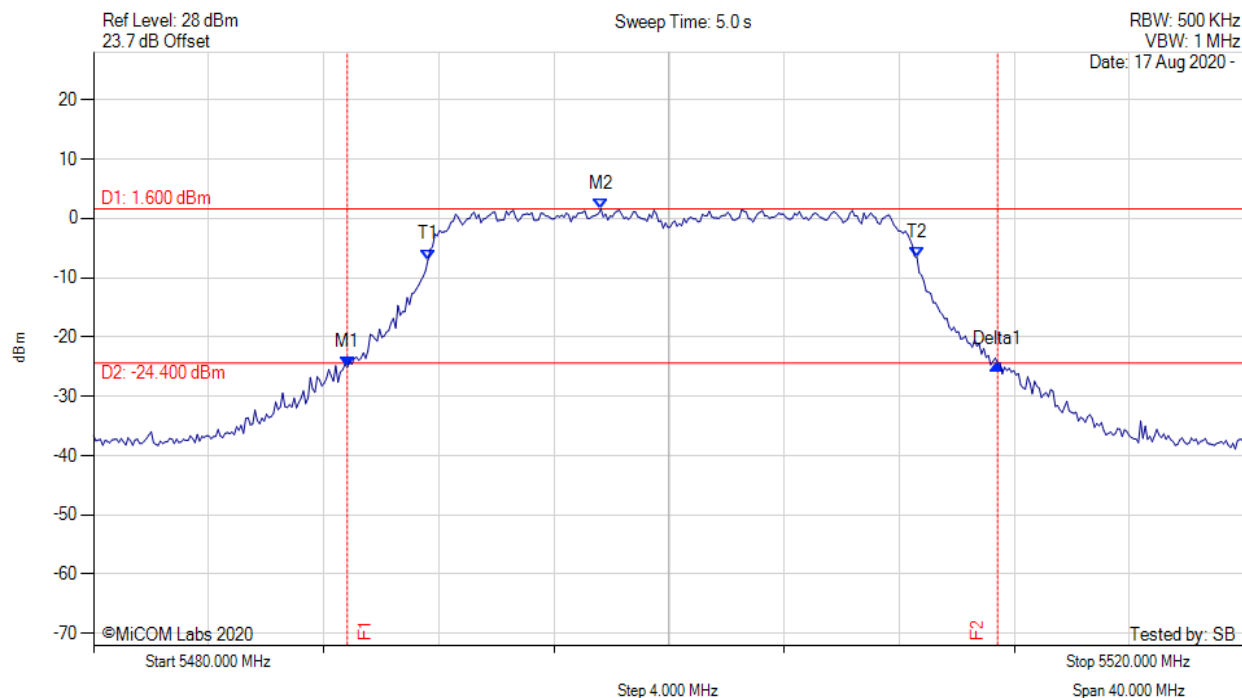
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5286.513 MHz : -28.093 dBm M2 : 5321.623 MHz : -1.115 dBm Delta1 : 46.493 MHz : 1.676 dB T1 : 5291.483 MHz : -7.808 dBm T2 : 5328.517 MHz : -8.670 dBm OBW : 37.034 MHz	Measured 26 dB Bandwidth: 46.493 MHz Measured 99% Bandwidth: 37.034 MHz

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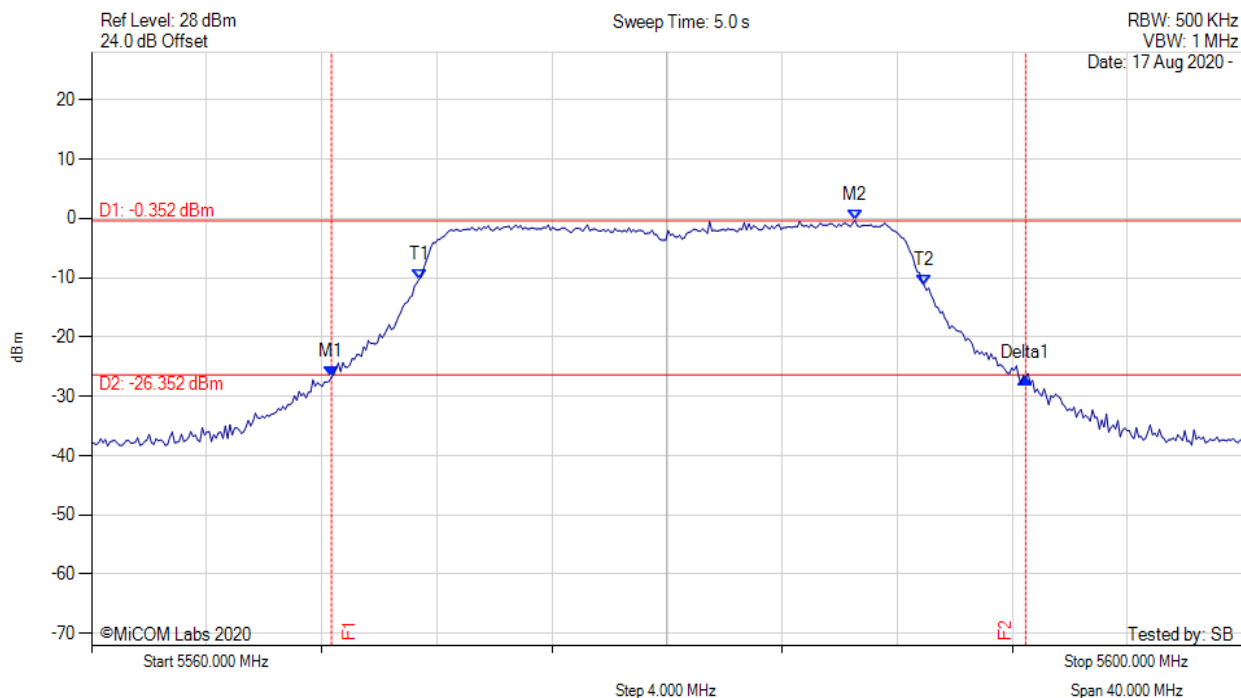
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.016 MHz : -27.745 dBm M2 : 5497.395 MHz : -0.660 dBm Delta1 : 23.567 MHz : 1.078 dB T1 : 5491.383 MHz : -9.234 dBm T2 : 5508.697 MHz : -9.789 dBm OBW : 17.315 MHz	Measured 26 dB Bandwidth: 23.567 MHz Measured 99% Bandwidth: 17.315 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.818 MHz : -25.115 dBm M2 : 5497.635 MHz : 1.600 dBm Delta1 : 22.605 MHz : 0.533 dB T1 : 5491.623 MHz : -6.972 dBm T2 : 5508.617 MHz : -6.572 dBm OBW : 16.994 MHz	Measured 26 dB Bandwidth: 22.605 MHz Measured 99% Bandwidth: 16.994 MHz

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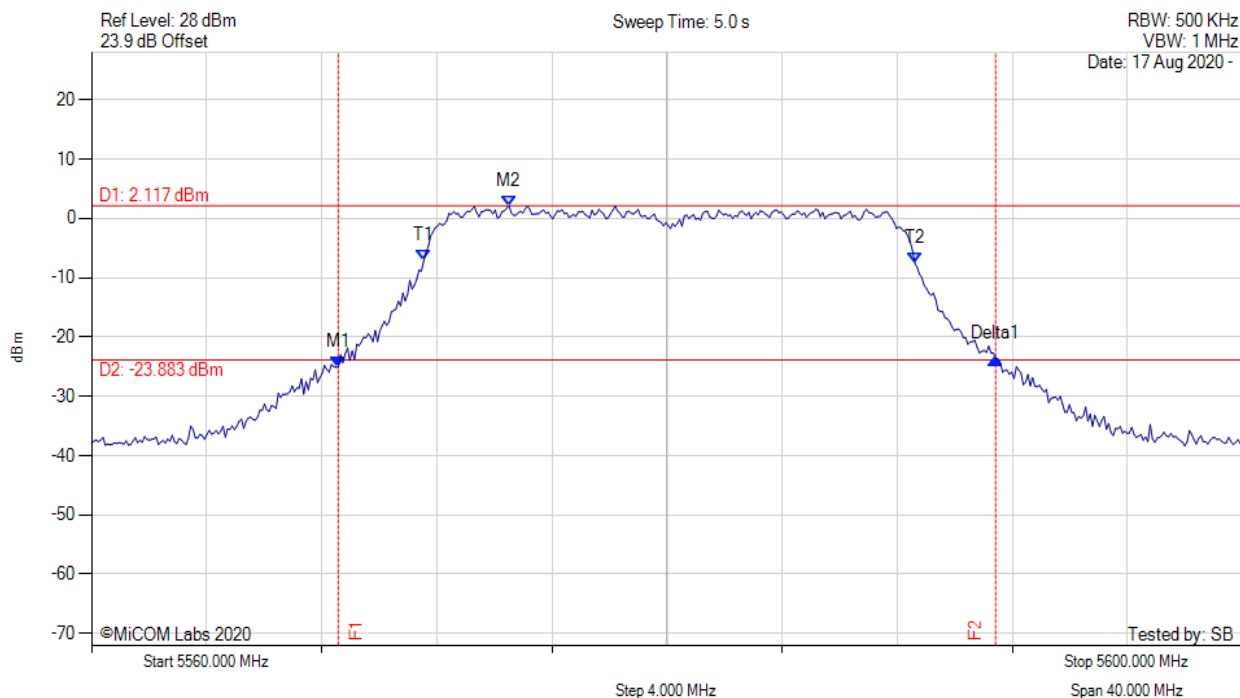
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.337 MHz : -26.787 dBm M2 : 5586.533 MHz : -0.352 dBm Delta1 : 24.128 MHz : -0.063 dB T1 : 5571.383 MHz : -10.269 dBm T2 : 5588.938 MHz : -11.349 dBm OBW : 17.555 MHz	Measured 26 dB Bandwidth: 24.128 MHz Measured 99% Bandwidth: 17.555 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



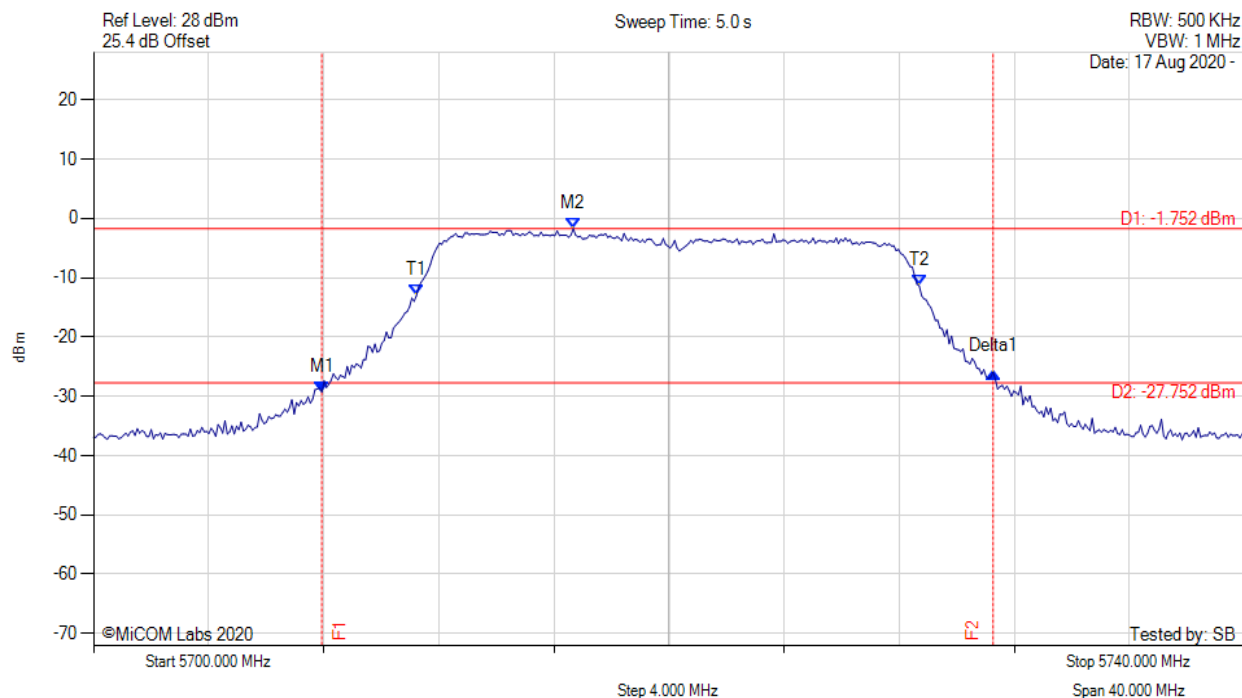
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.577 MHz : -25.113 dBm M2 : 5574.509 MHz : 2.117 dBm Delta1 : 22.846 MHz : 1.432 dB T1 : 5571.543 MHz : -7.178 dBm T2 : 5588.617 MHz : -7.589 dBm OBW : 17.074 MHz	Measured 26 dB Bandwidth: 22.846 MHz Measured 99% Bandwidth: 17.074 MHz

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26 dB & 99% BANDWIDTH

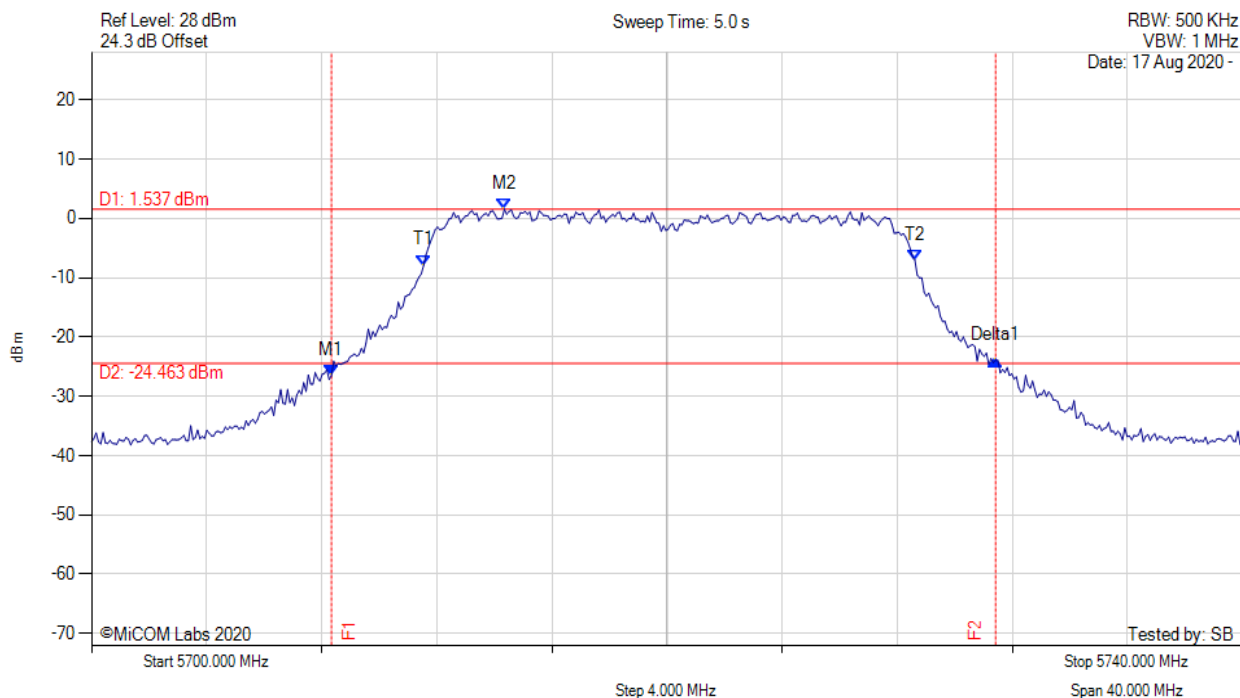


Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.936 MHz : -29.301 dBm M2 : 5716.673 MHz : -1.752 dBm Delta1 : 23.327 MHz : 3.407 dB T1 : 5711.222 MHz : -13.025 dBm T2 : 5728.697 MHz : -11.353 dBm OBW : 17.475 MHz	Measured 26 dB Bandwidth: 23.327 MHz Measured 99% Bandwidth: 17.475 MHz

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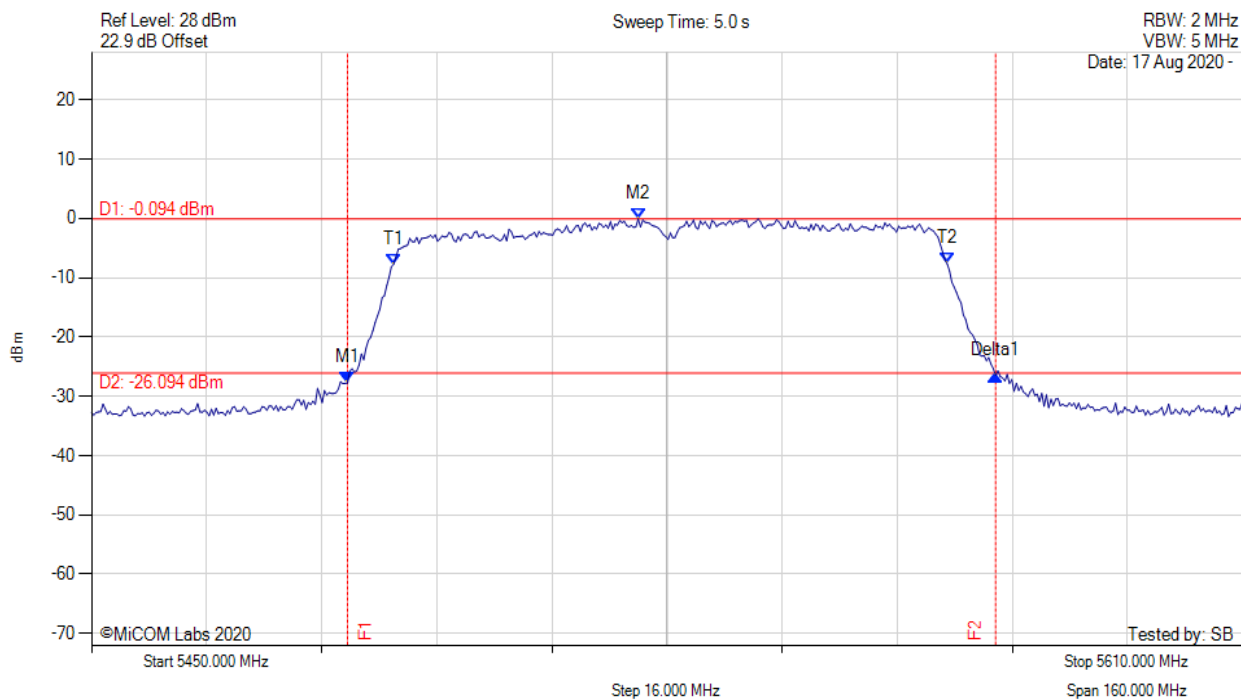
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5708.337 MHz : -26.551 dBm M2 : 5714.349 MHz : 1.537 dBm Delta1 : 23.086 MHz : 2.654 dB T1 : 5711.543 MHz : -7.896 dBm T2 : 5728.617 MHz : -7.060 dBm OBW : 17.074 MHz	Measured 26 dB Bandwidth: 23.086 MHz Measured 99% Bandwidth: 17.074 MHz

[back to matrix](#)

26 dB & 99% BANDWIDTH



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



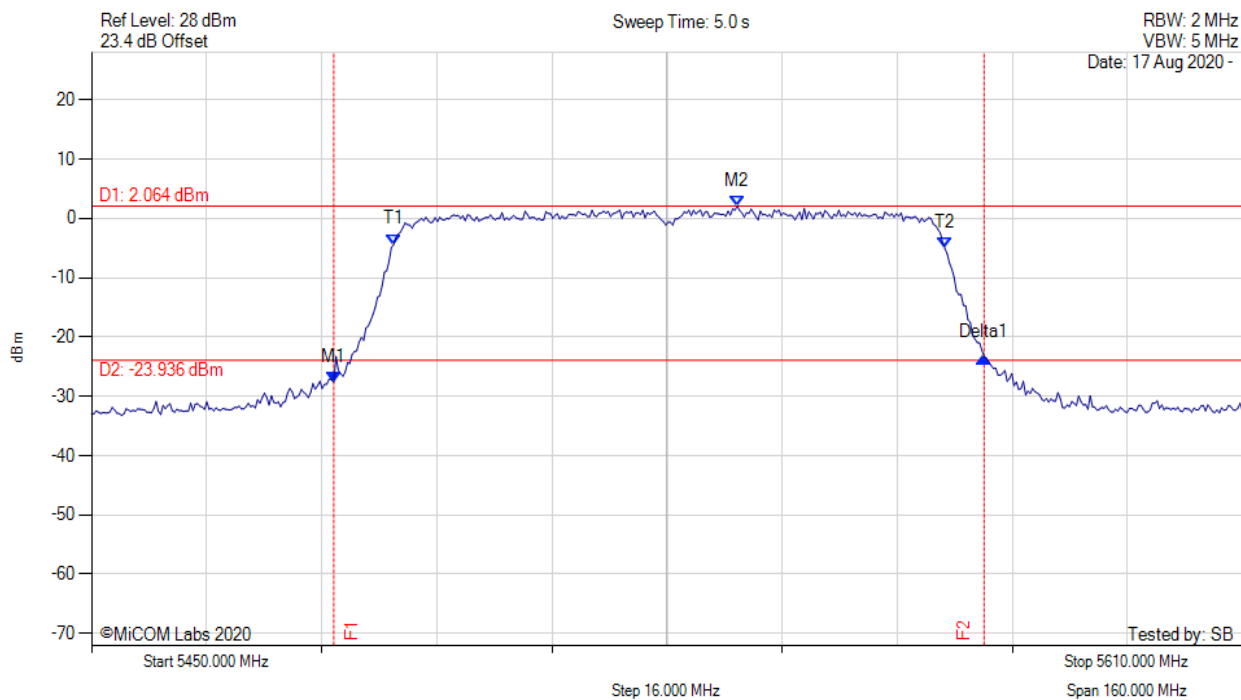
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5485.591 MHz : -27.735 dBm M2 : 5525.992 MHz : -0.094 dBm Delta1 : 90.100 MHz : 1.273 dB T1 : 5492.004 MHz : -7.706 dBm T2 : 5568.958 MHz : -7.641 dBm OBW : 76.954 MHz	Measured 26 dB Bandwidth: 90.100 MHz Measured 99% Bandwidth: 76.954 MHz

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26 dB & 99% BANDWIDTH



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



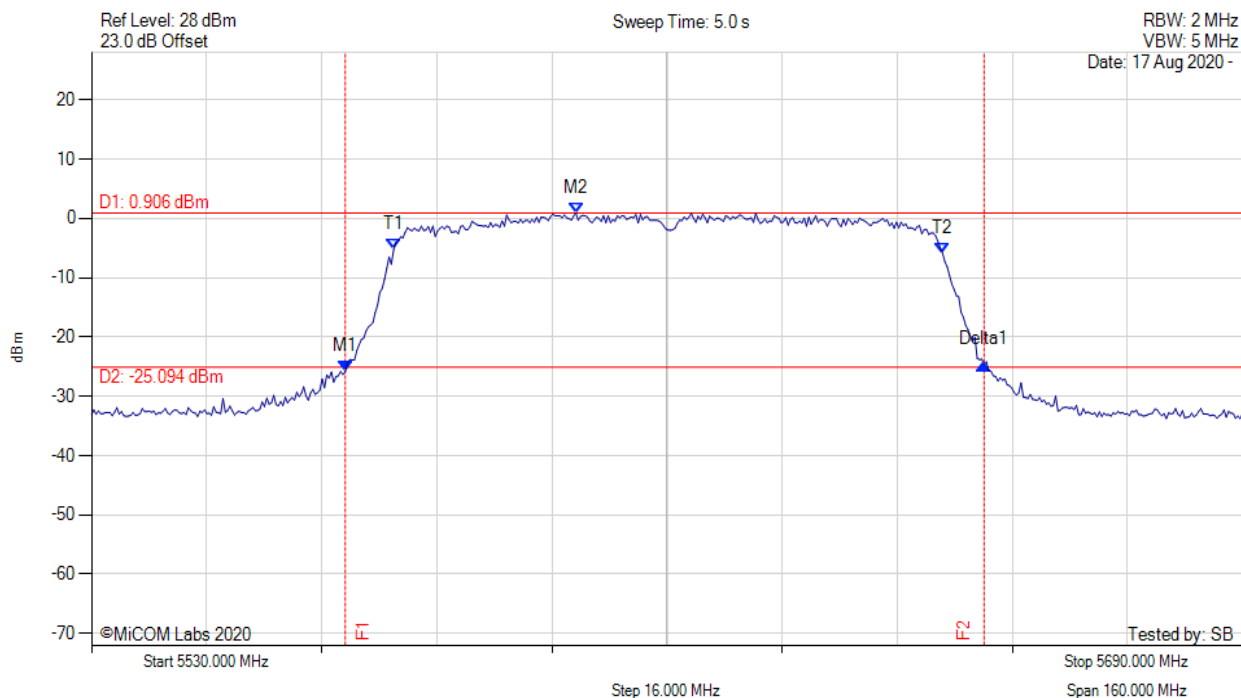
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5483.667 MHz : -27.605 dBm M2 : 5539.780 MHz : 2.064 dBm Delta1 : 90.421 MHz : 4.244 dB T1 : 5492.004 MHz : -4.394 dBm T2 : 5568.637 MHz : -5.081 dBm OBW : 76.633 MHz	Measured 26 dB Bandwidth: 90.421 MHz Measured 99% Bandwidth: 76.633 MHz

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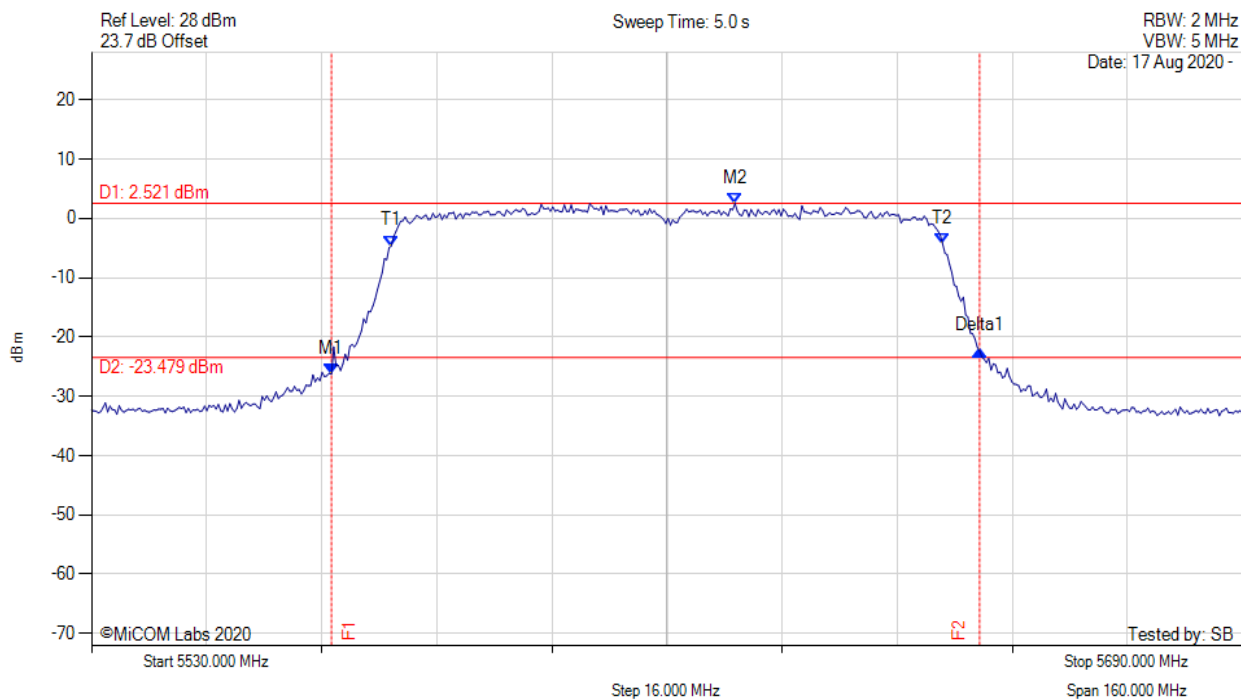
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



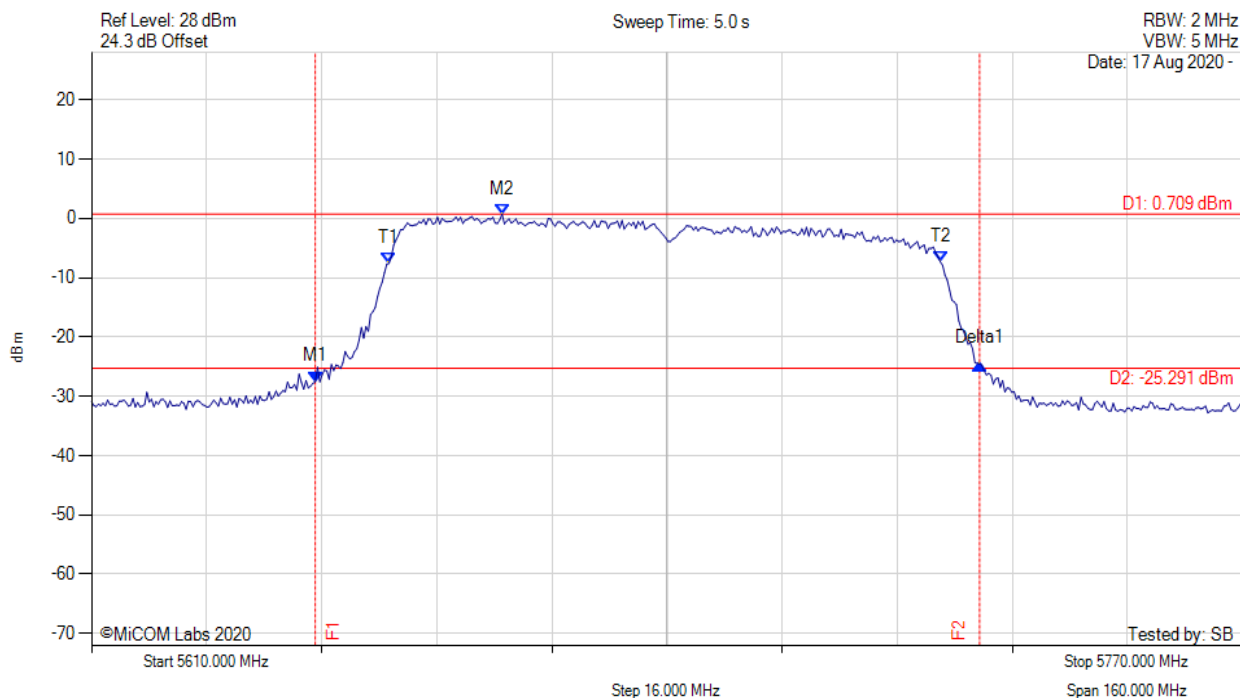
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5565.271 MHz : -25.839 dBm M2 : 5597.335 MHz : 0.906 dBm Delta1 : 88.818 MHz : 1.200 dB T1 : 5572.004 MHz : -5.268 dBm T2 : 5648.317 MHz : -5.898 dBm OBW : 76.313 MHz	Measured 26 dB Bandwidth: 88.818 MHz Measured 99% Bandwidth: 76.313 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5563.347 MHz : -26.252 dBm M2 : 5619.459 MHz : 2.521 dBm Delta1 : 90.100 MHz : 3.935 dB T1 : 5571.683 MHz : -4.644 dBm T2 : 5648.317 MHz : -4.269 dBm OBW : 76.633 MHz	Measured 26 dB Bandwidth: 90.100 MHz Measured 99% Bandwidth: 76.633 MHz

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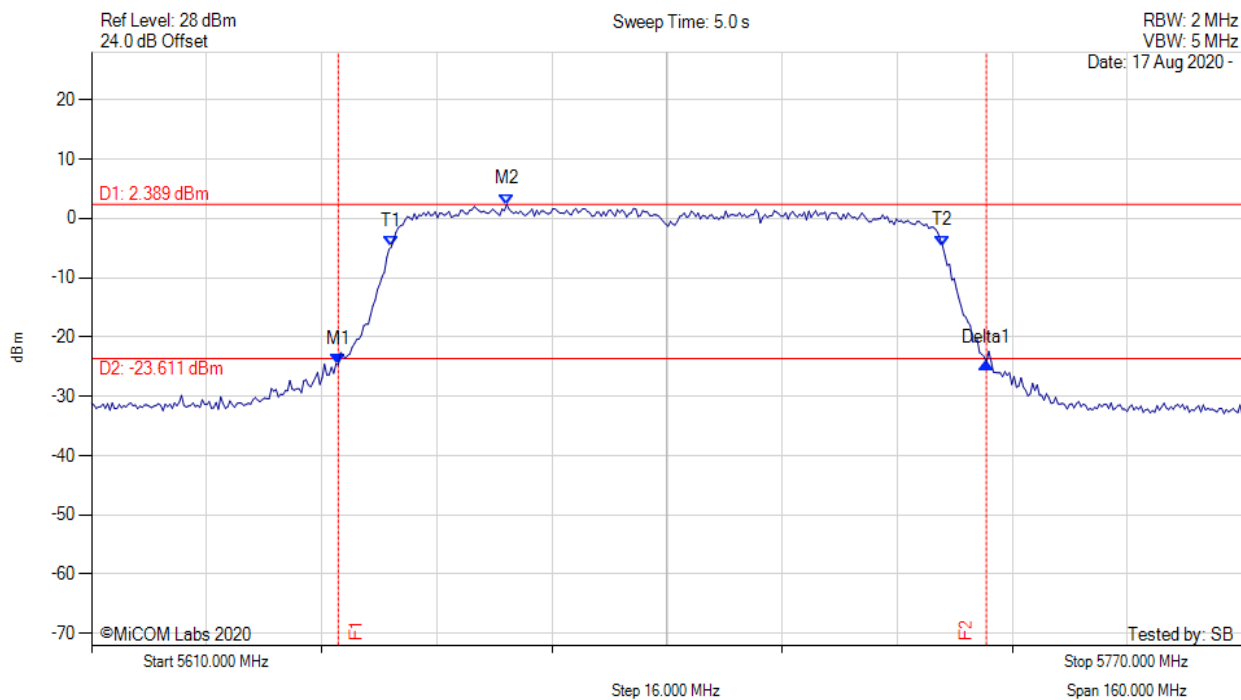
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5641.102 MHz : -27.540 dBm M2 : 5667.074 MHz : 0.709 dBm Delta1 : 92.345 MHz : 3.032 dB T1 : 5651.363 MHz : -7.578 dBm T2 : 5727.996 MHz : -7.322 dBm OBW : 76.633 MHz	Measured 26 dB Bandwidth: 92.345 MHz Measured 99% Bandwidth: 76.633 MHz

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26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



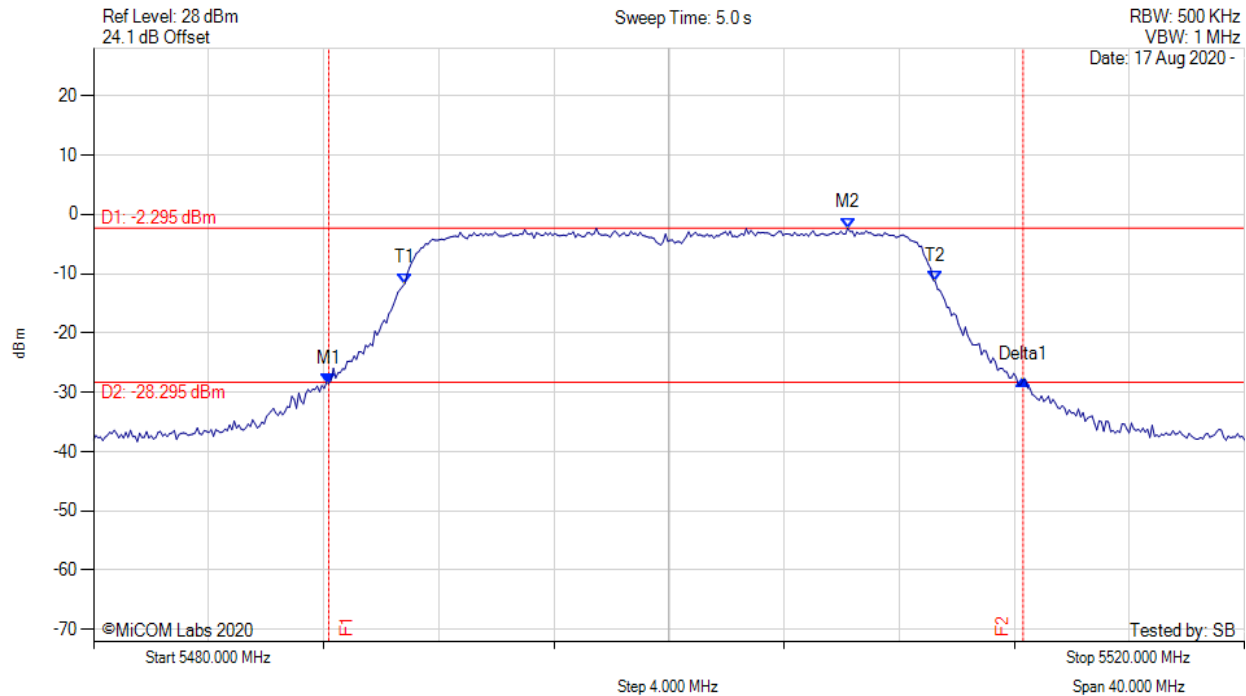
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5644.309 MHz : -24.705 dBm M2 : 5667.715 MHz : 2.389 dBm Delta1 : 90.100 MHz : 0.393 dB T1 : 5651.683 MHz : -4.831 dBm T2 : 5728.317 MHz : -4.644 dBm OBW : 76.633 MHz	Measured 26 dB Bandwidth: 90.100 MHz Measured 99% Bandwidth: 76.633 MHz

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26 dB & 99% BANDWIDTH



Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



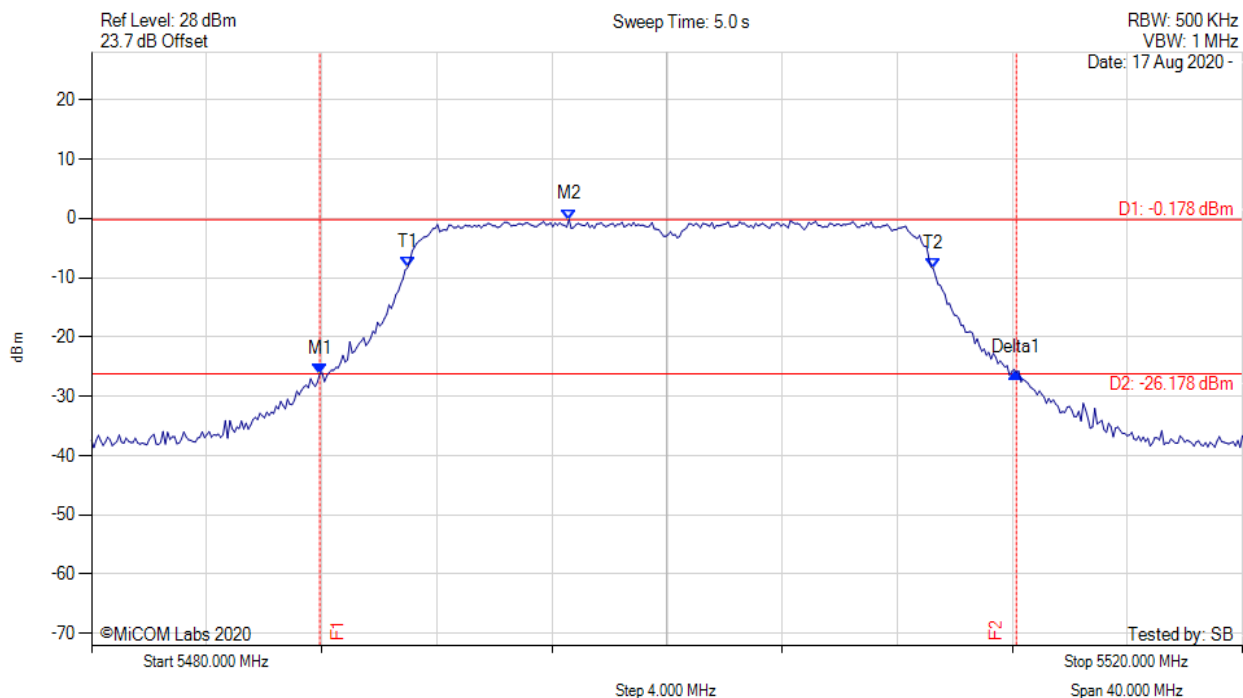
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5488.176 MHz : -28.489 dBm M2 : 5506.212 MHz : -2.295 dBm Delta1 : 24.128 MHz : 0.537 dB T1 : 5490.822 MHz : -11.654 dBm T2 : 5509.259 MHz : -11.343 dBm OBW : 18.437 MHz	Measured 26 dB Bandwidth: 24.128 MHz Measured 99% Bandwidth: 18.437 MHz

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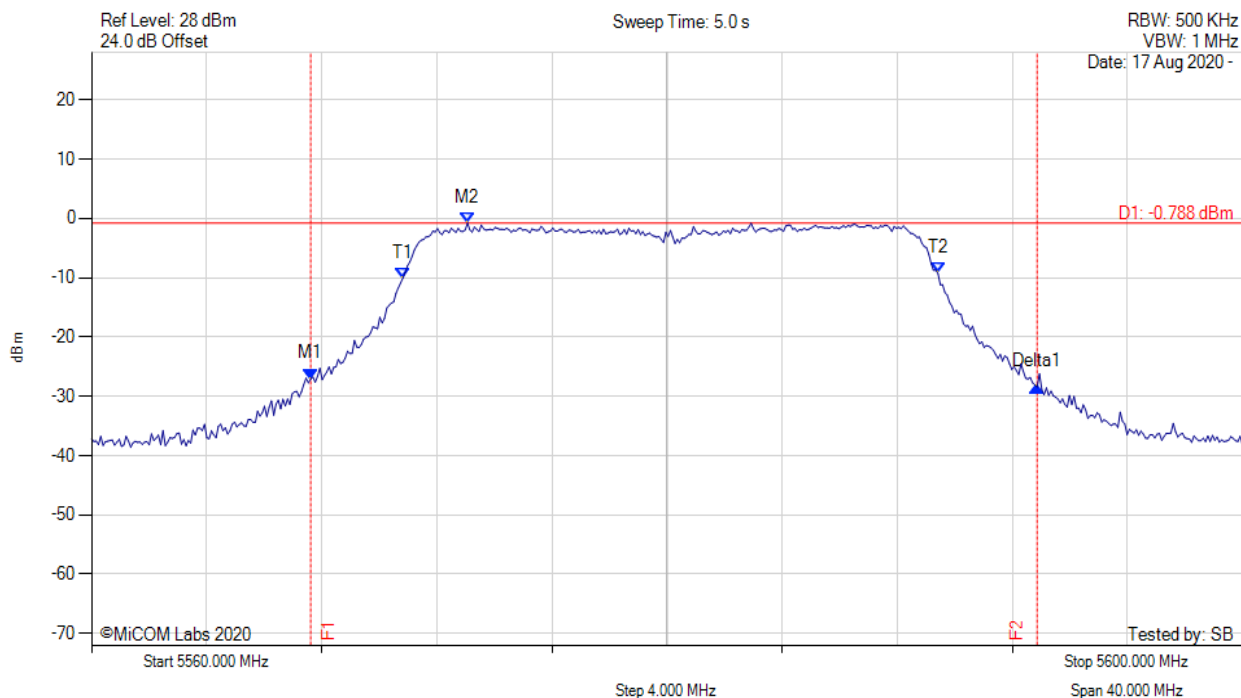
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5487.936 MHz : -26.183 dBm M2 : 5496.593 MHz : -0.178 dBm Delta1 : 24.208 MHz : 0.212 dB T1 : 5490.982 MHz : -8.317 dBm T2 : 5509.259 MHz : -8.526 dBm OBW : 18.277 MHz	Measured 26 dB Bandwidth: 24.208 MHz Measured 99% Bandwidth: 18.277 MHz

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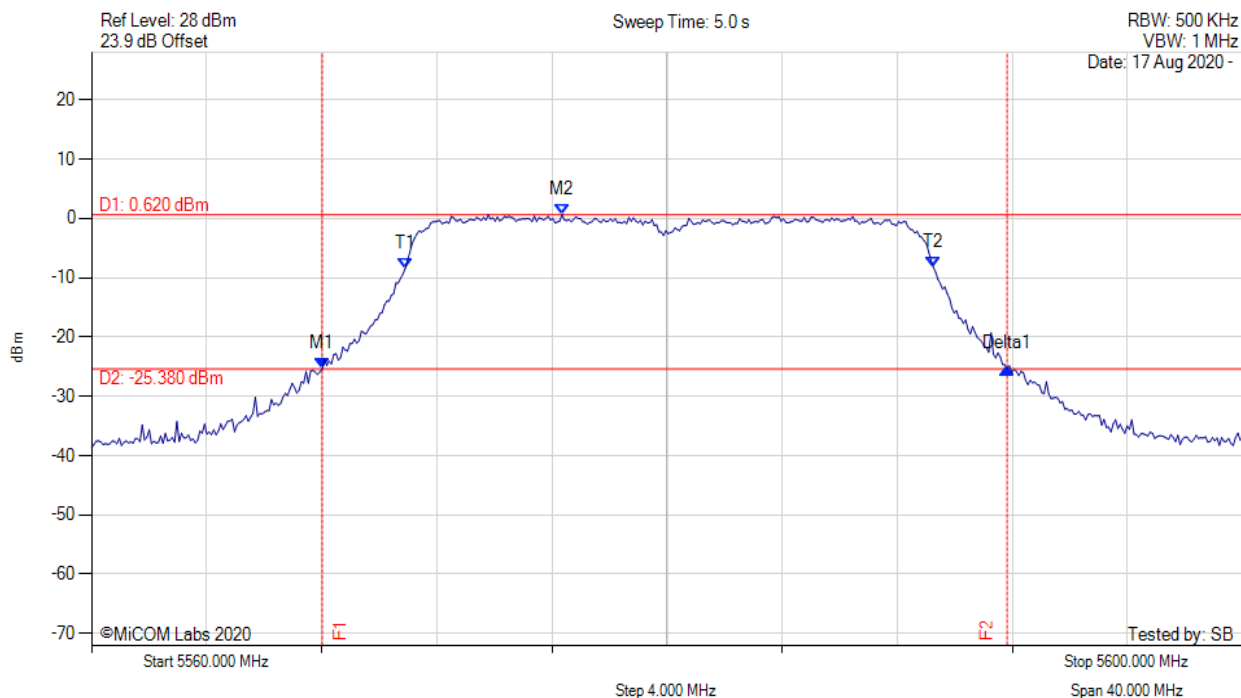
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5567.615 MHz : -27.078 dBm M2 : 5573.066 MHz : -0.788 dBm Delta1 : 25.251 MHz : -1.359 dB T1 : 5570.822 MHz : -10.039 dBm T2 : 5589.419 MHz : -9.264 dBm OBW : 18.597 MHz	Measured 26 dB Bandwidth: 25.251 MHz Measured 99% Bandwidth: 18.597 MHz

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26 dB & 99% BANDWIDTH

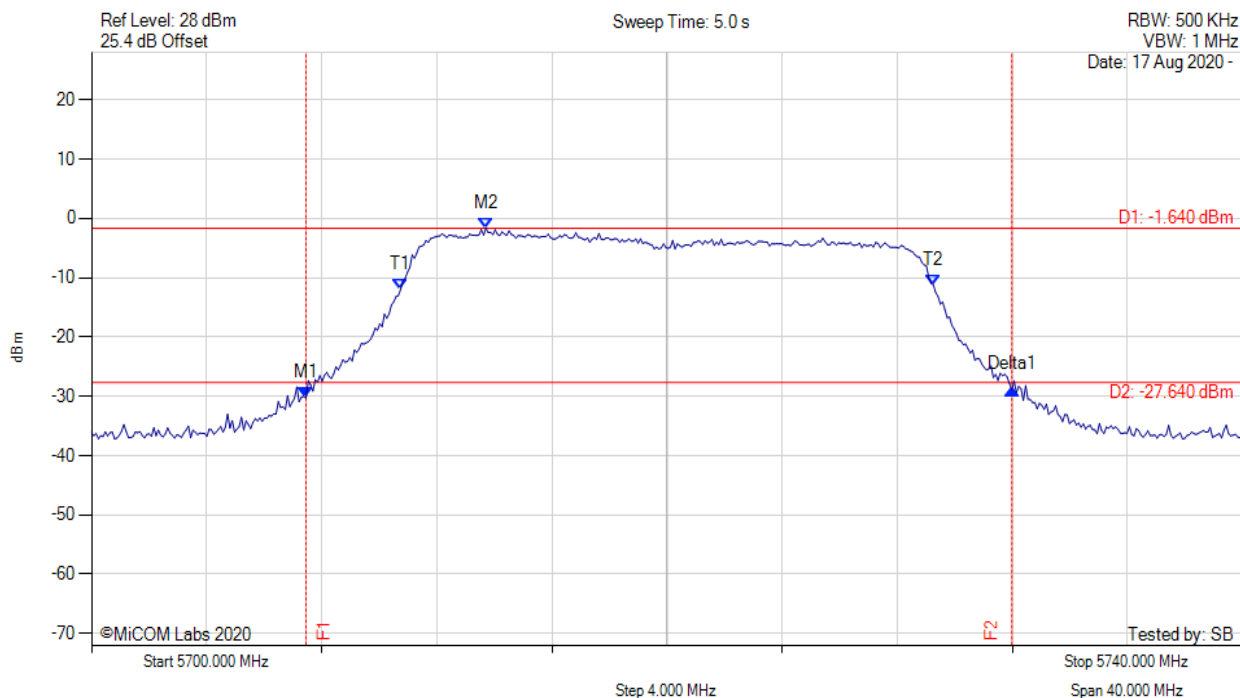


Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5568.016 MHz : -25.394 dBm M2 : 5576.353 MHz : 0.620 dBm Delta1 : 23.808 MHz : 0.134 dB T1 : 5570.902 MHz : -8.439 dBm T2 : 5589.259 MHz : -8.237 dBm OBW : 18.357 MHz	Measured 26 dB Bandwidth: 23.808 MHz Measured 99% Bandwidth: 18.357 MHz

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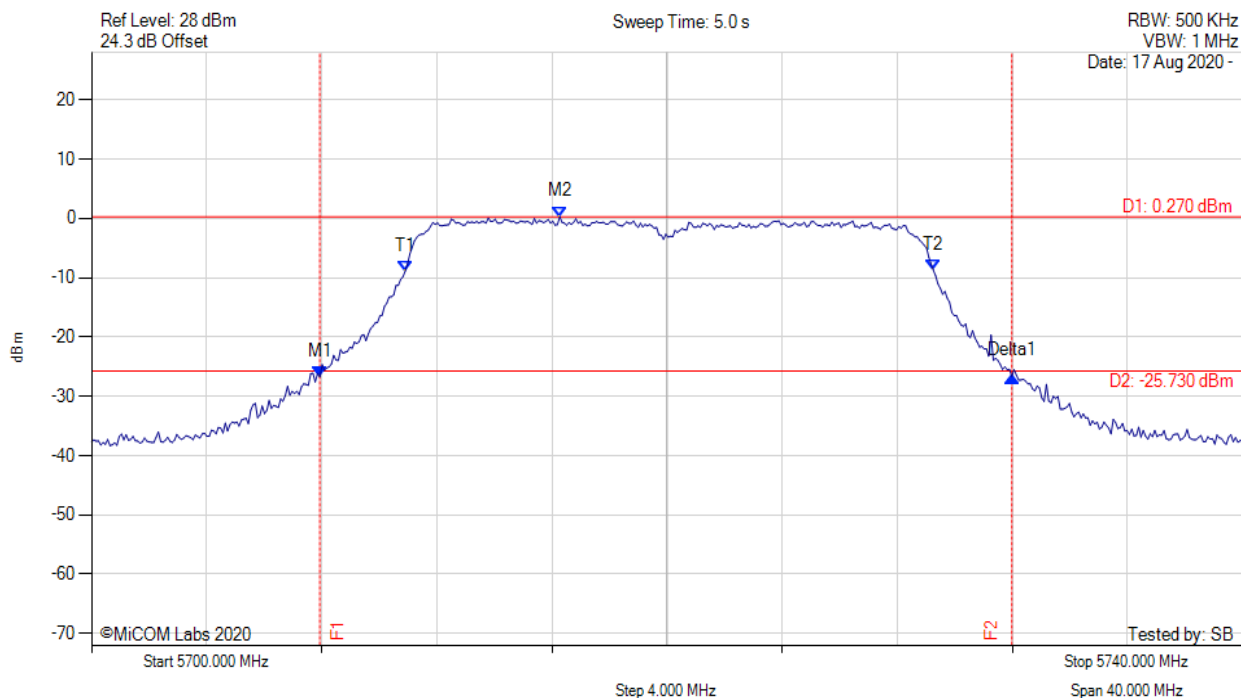
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.455 MHz : -30.293 dBm M2 : 5713.707 MHz : -1.640 dBm Delta1 : 24.529 MHz : 1.424 dB T1 : 5710.741 MHz : -12.002 dBm T2 : 5729.259 MHz : -11.192 dBm OBW : 18.517 MHz	Measured 26 dB Bandwidth: 24.529 MHz Measured 99% Bandwidth: 18.517 MHz

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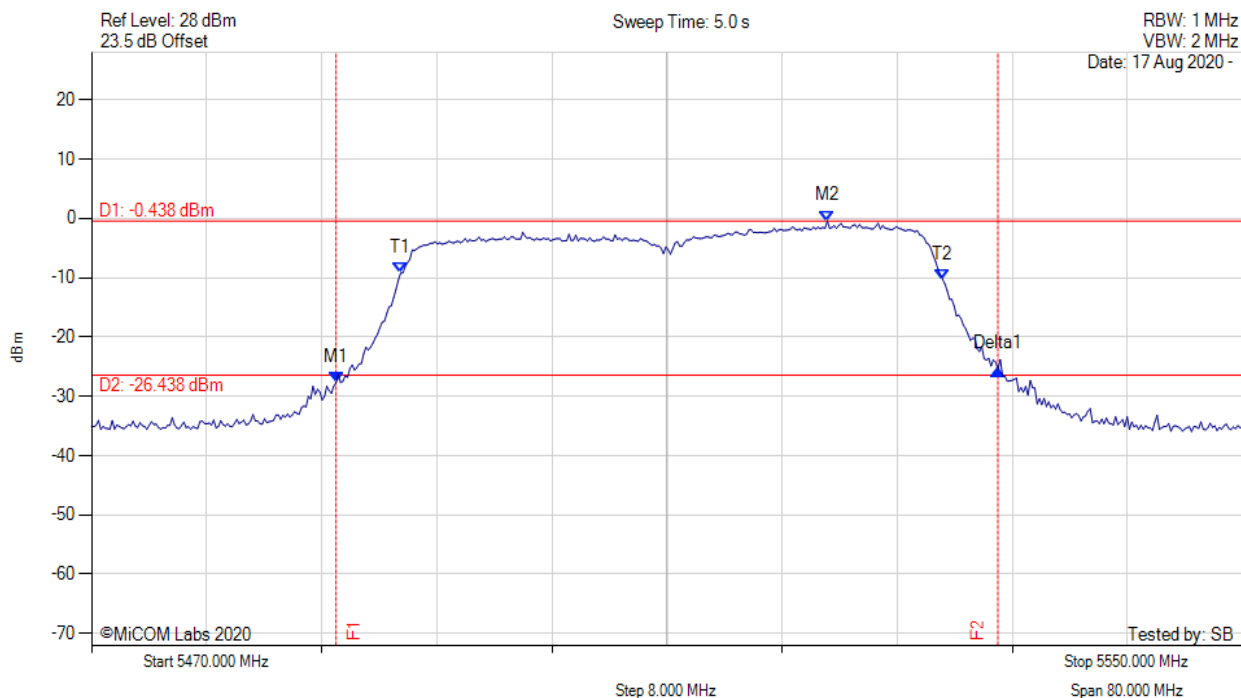
26 dB & 99% BANDWIDTH

Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



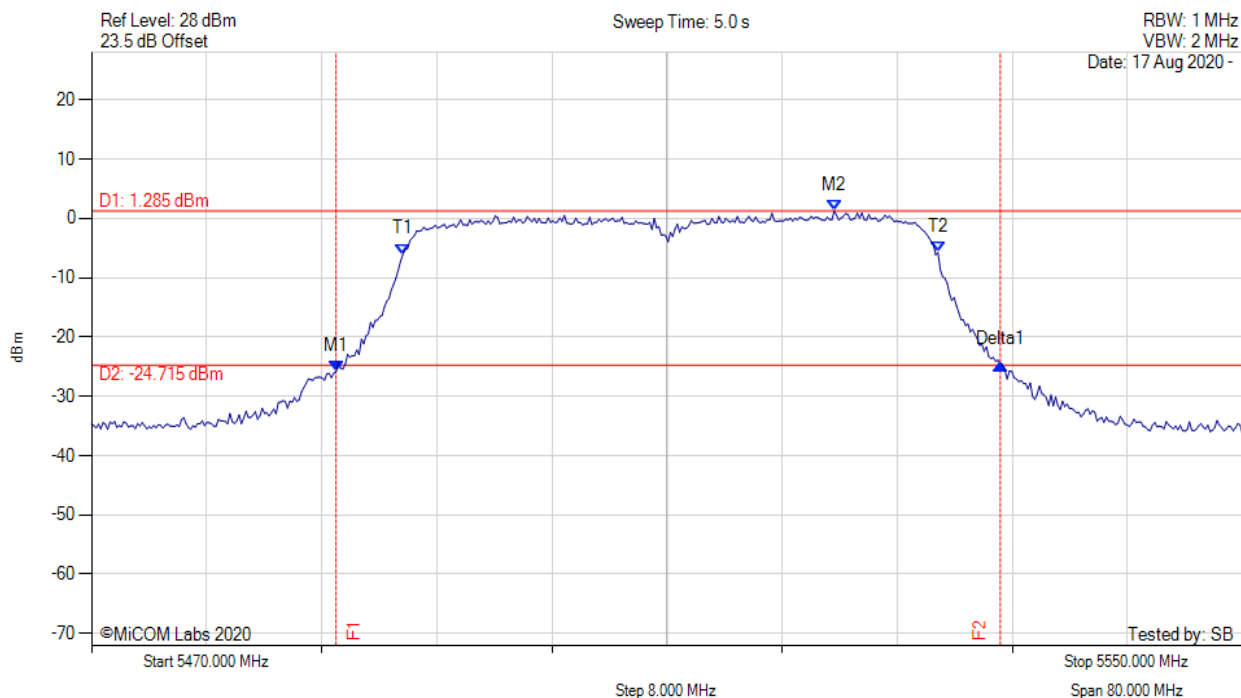
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5707.936 MHz : -26.720 dBm M2 : 5716.273 MHz : 0.270 dBm Delta1 : 24.048 MHz : 0.110 dB T1 : 5710.902 MHz : -8.898 dBm T2 : 5729.259 MHz : -8.734 dBm OBW : 18.357 MHz	Measured 26 dB Bandwidth: 24.048 MHz Measured 99% Bandwidth: 18.357 MHz

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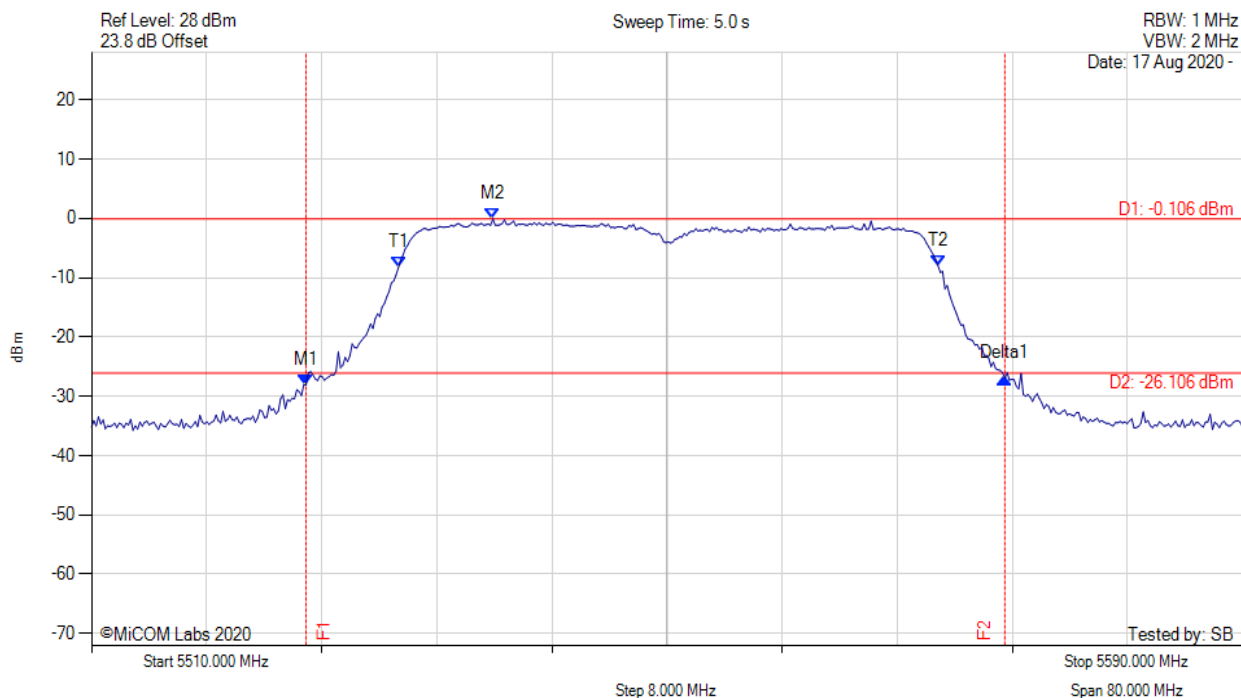
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5486.994 MHz : -27.710 dBm M2 : 5521.142 MHz : -0.438 dBm Delta1 : 46.012 MHz : 2.284 dB T1 : 5491.483 MHz : -9.236 dBm T2 : 5529.158 MHz : -10.281 dBm OBW : 37.675 MHz	Measured 26 dB Bandwidth: 46.012 MHz Measured 99% Bandwidth: 37.675 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5486.994 MHz : -25.850 dBm M2 : 5521.623 MHz : 1.285 dBm Delta1 : 46.172 MHz : 1.332 dB T1 : 5491.643 MHz : -6.023 dBm T2 : 5528.838 MHz : -5.748 dBm OBW : 37.194 MHz	Measured 26 dB Bandwidth: 46.172 MHz Measured 99% Bandwidth: 37.194 MHz

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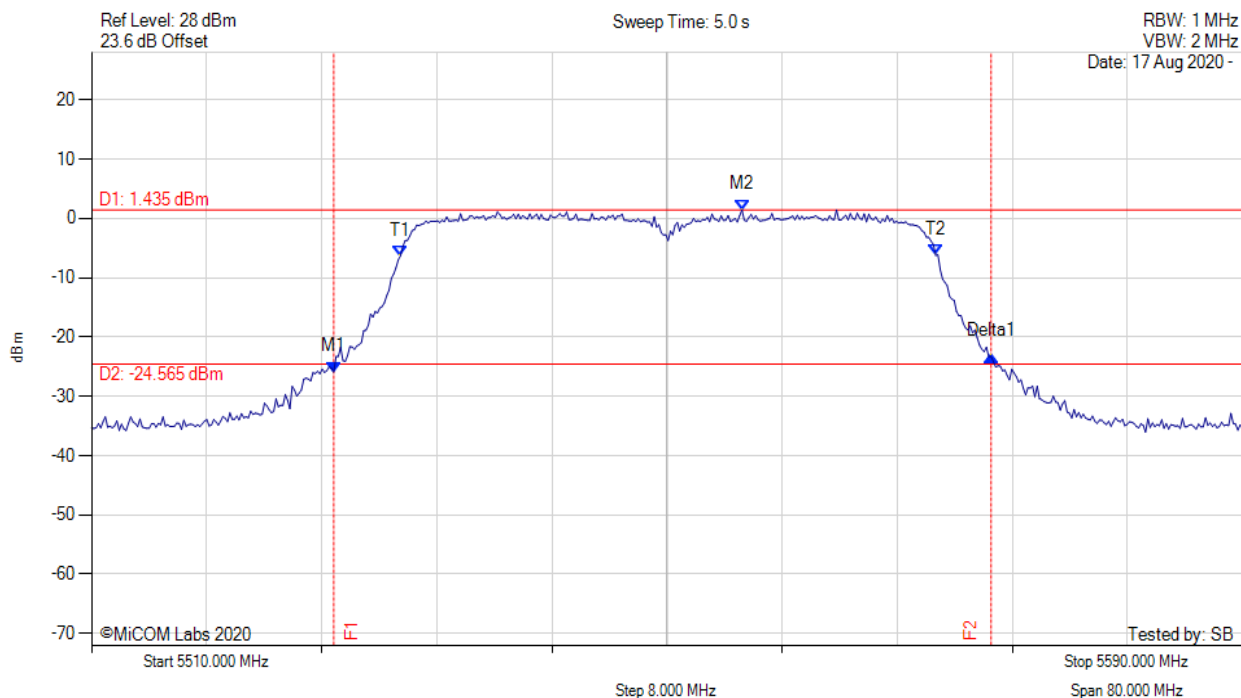
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5524.910 MHz : -28.070 dBm M2 : 5537.896 MHz : -0.106 dBm Delta1 : 48.577 MHz : 1.186 dB T1 : 5531.323 MHz : -8.355 dBm T2 : 5568.838 MHz : -7.932 dBm OBW : 37.515 MHz	Measured 26 dB Bandwidth: 48.577 MHz Measured 99% Bandwidth: 37.515 MHz

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26 dB & 99% BANDWIDTH

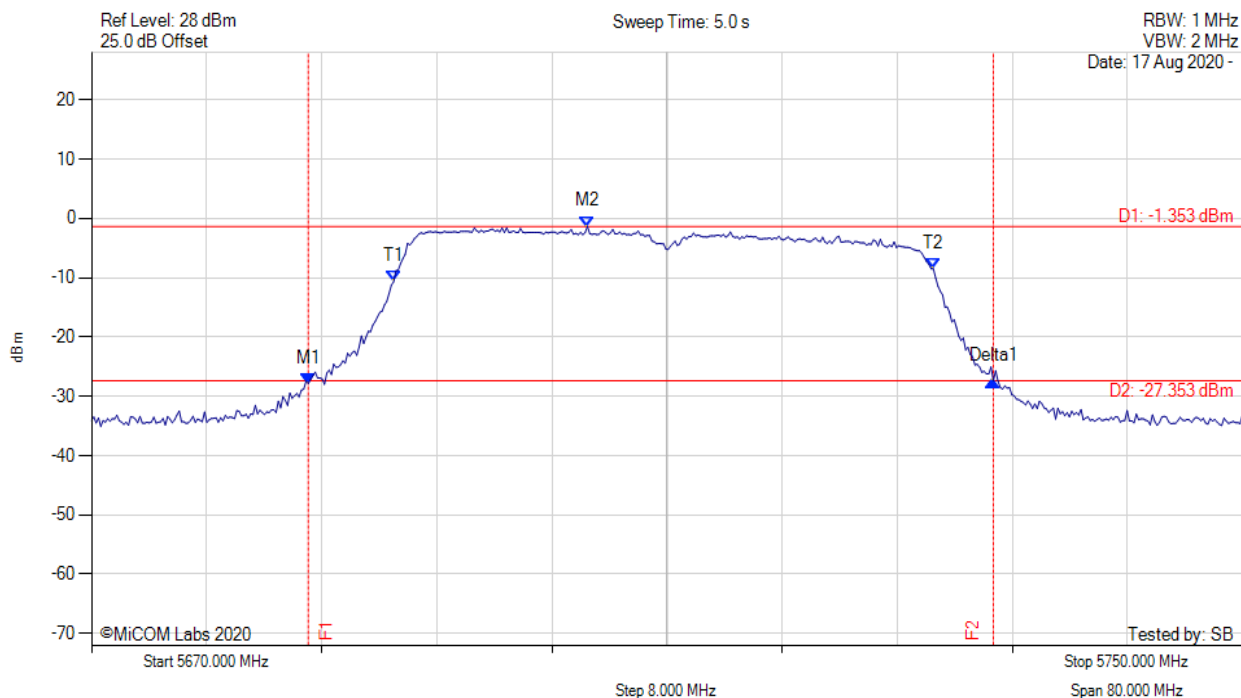


Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



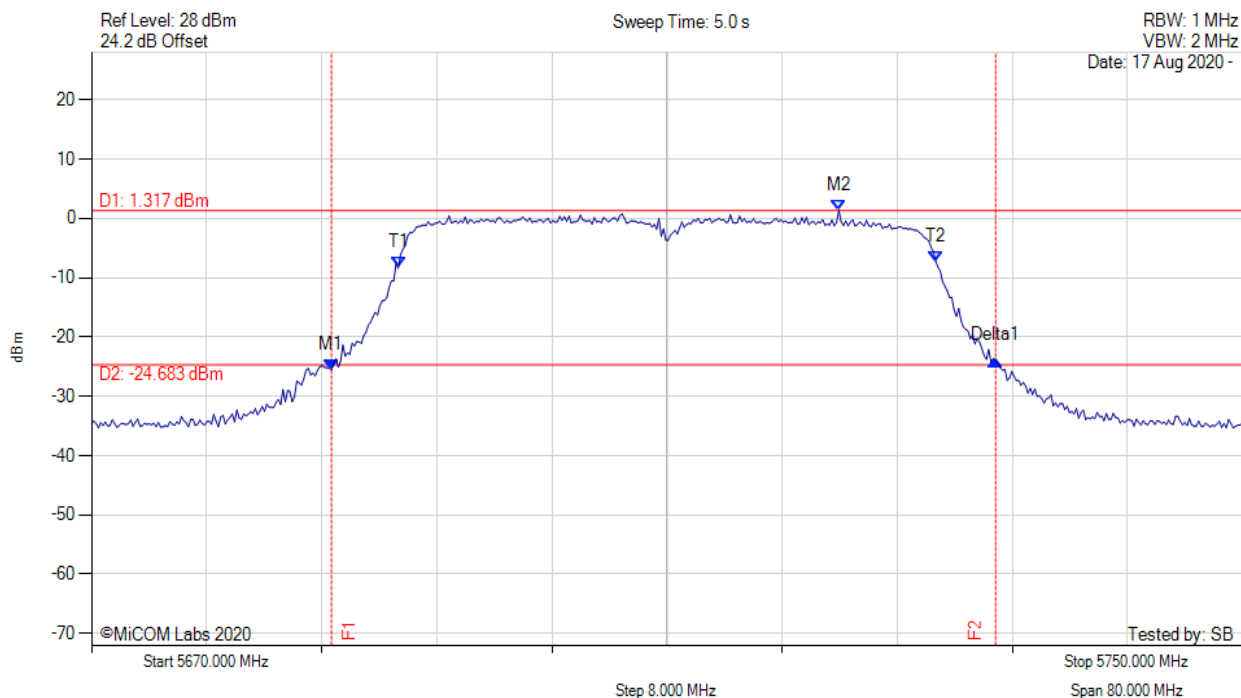
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5526.834 MHz : -25.894 dBm M2 : 5555.210 MHz : 1.435 dBm Delta1 : 45.691 MHz : 2.607 dB T1 : 5531.483 MHz : -6.293 dBm T2 : 5568.677 MHz : -6.214 dBm OBW : 37.194 MHz	Measured 26 dB Bandwidth: 45.691 MHz Measured 99% Bandwidth: 37.194 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5685.070 MHz : -27.832 dBm M2 : 5704.469 MHz : -1.353 dBm Delta1 : 47.615 MHz : 0.484 dB T1 : 5691.002 MHz : -10.659 dBm T2 : 5728.517 MHz : -8.479 dBm OBW : 37.515 MHz	Measured 26 dB Bandwidth: 47.615 MHz Measured 99% Bandwidth: 37.515 MHz

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Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = MAX PEAK Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAX HOLD	M1 : 5686.673 MHz : -25.522 dBm M2 : 5721.944 MHz : 1.317 dBm Delta1 : 46.172 MHz : 1.533 dB T1 : 5691.323 MHz : -8.351 dBm T2 : 5728.677 MHz : -7.239 dBm OBW : 37.355 MHz	Measured 26 dB Bandwidth: 46.172 MHz Measured 99% Bandwidth: 37.355 MHz

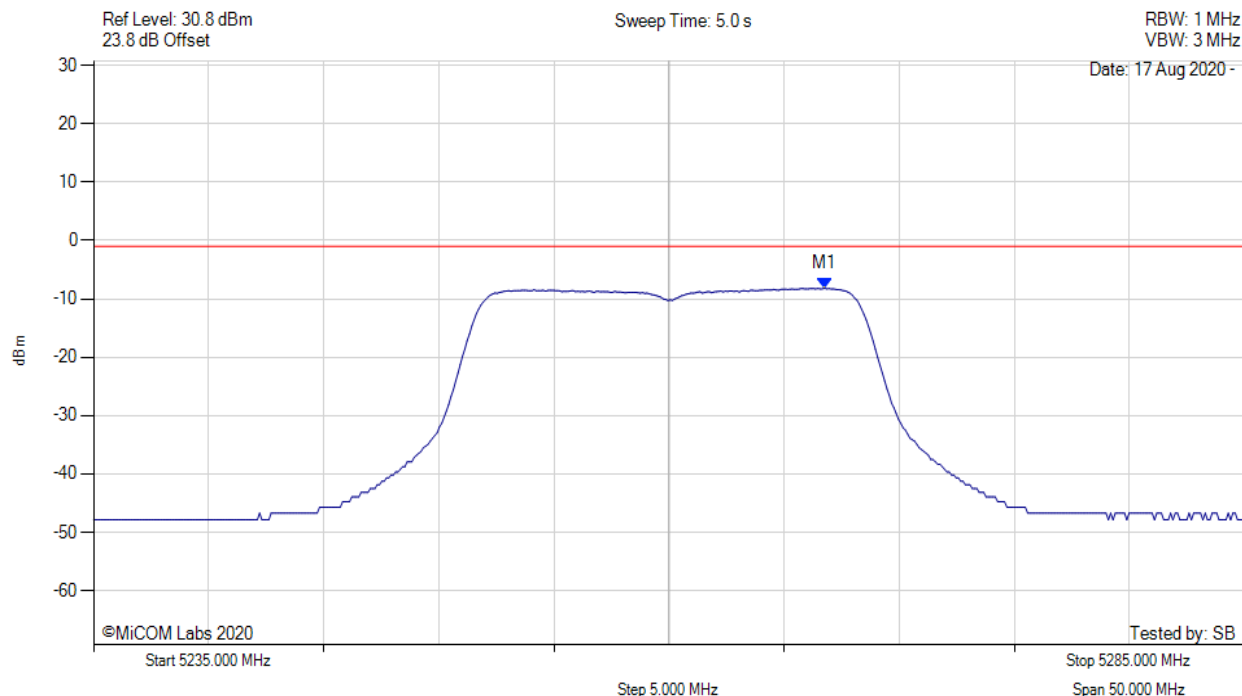
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A.2. Power Spectral Density



POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



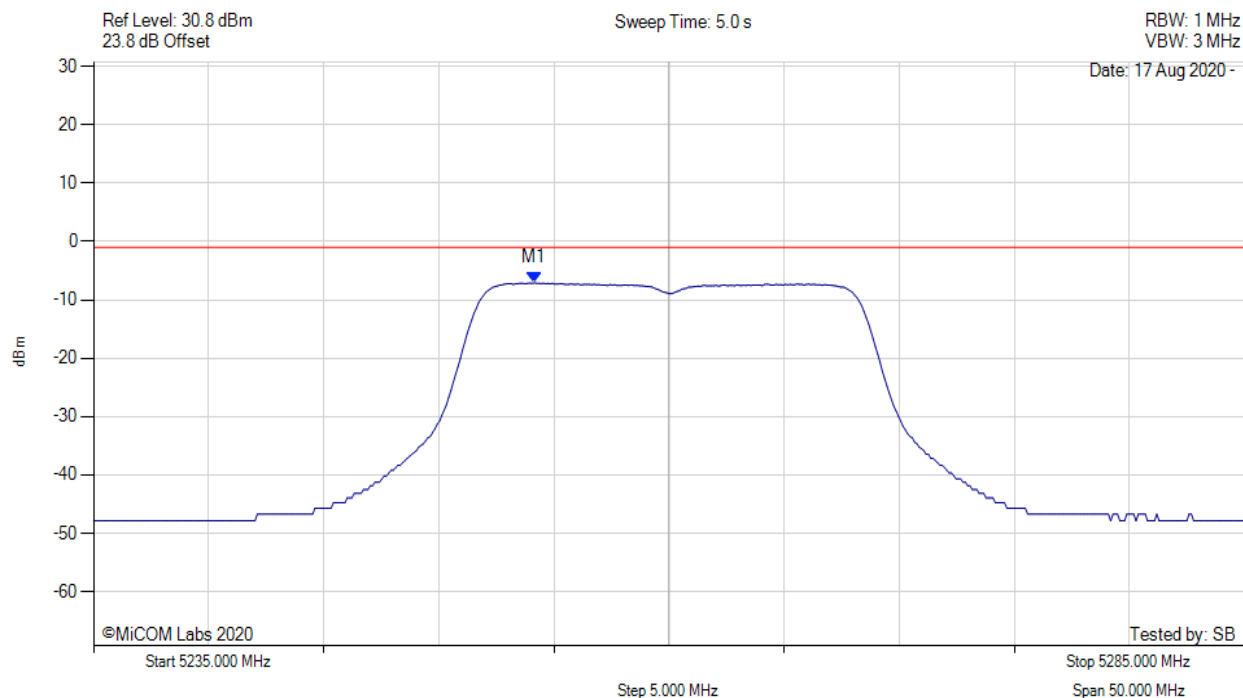
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.764 MHz : -8.179 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



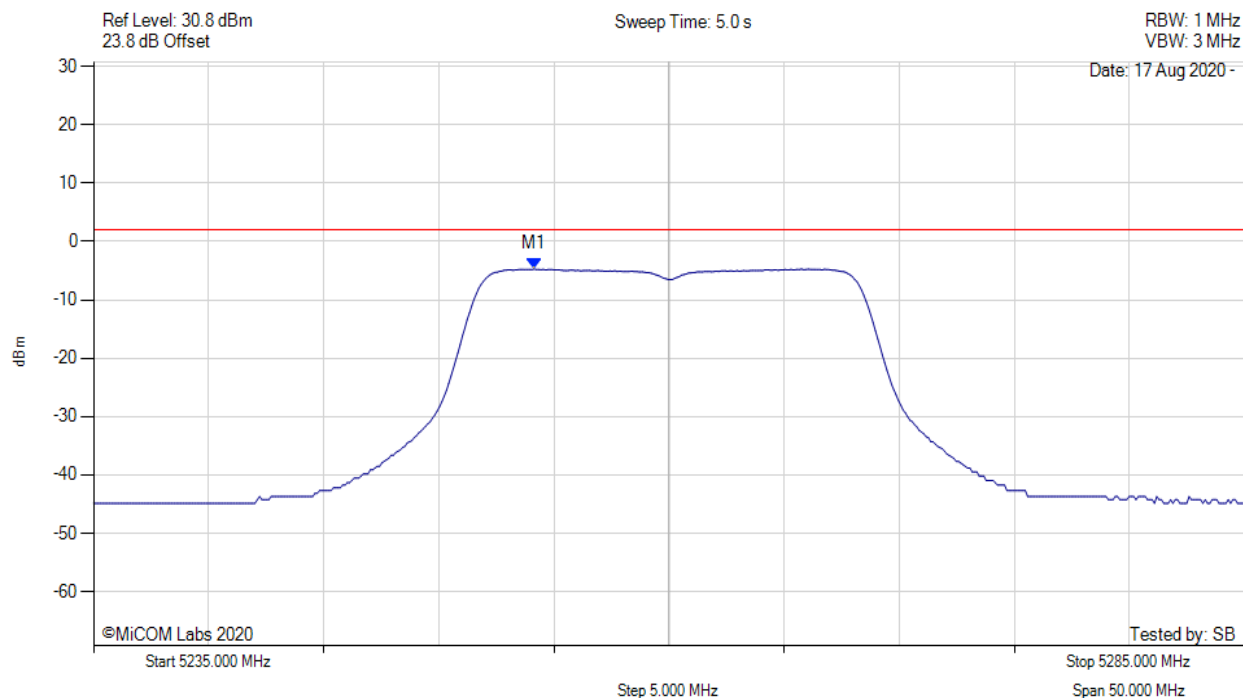
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5254.138 MHz : -7.103 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



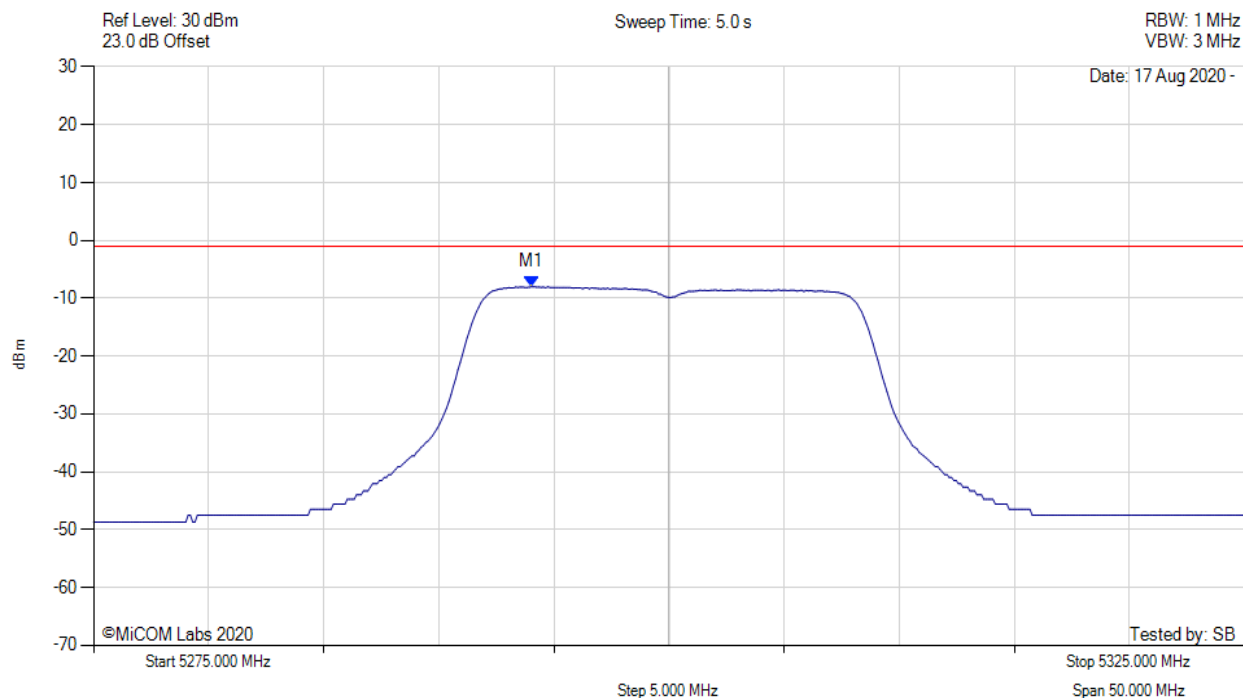
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5254.100 MHz : -4.710 dBm M1 + DCCF : 5254.100 MHz : -4.666 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -6.7 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



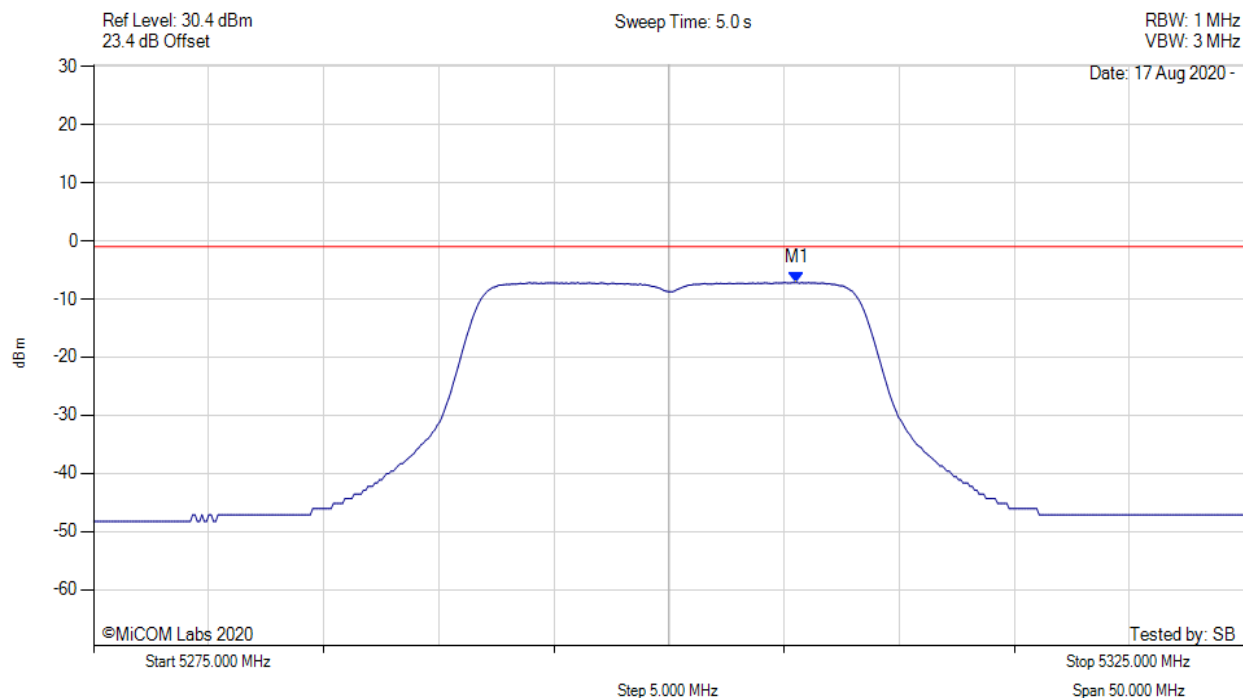
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5294.038 MHz : -7.995 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



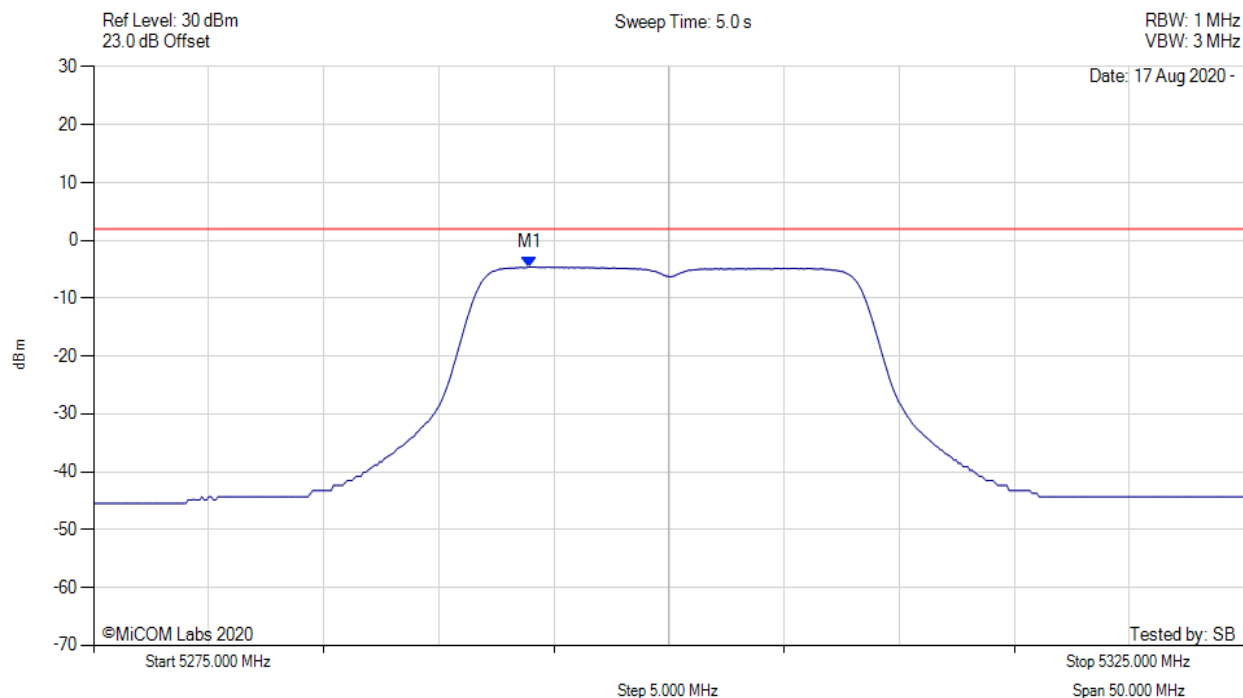
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5305.561 MHz : -7.158 dBm	Channel Frequency: 5300.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



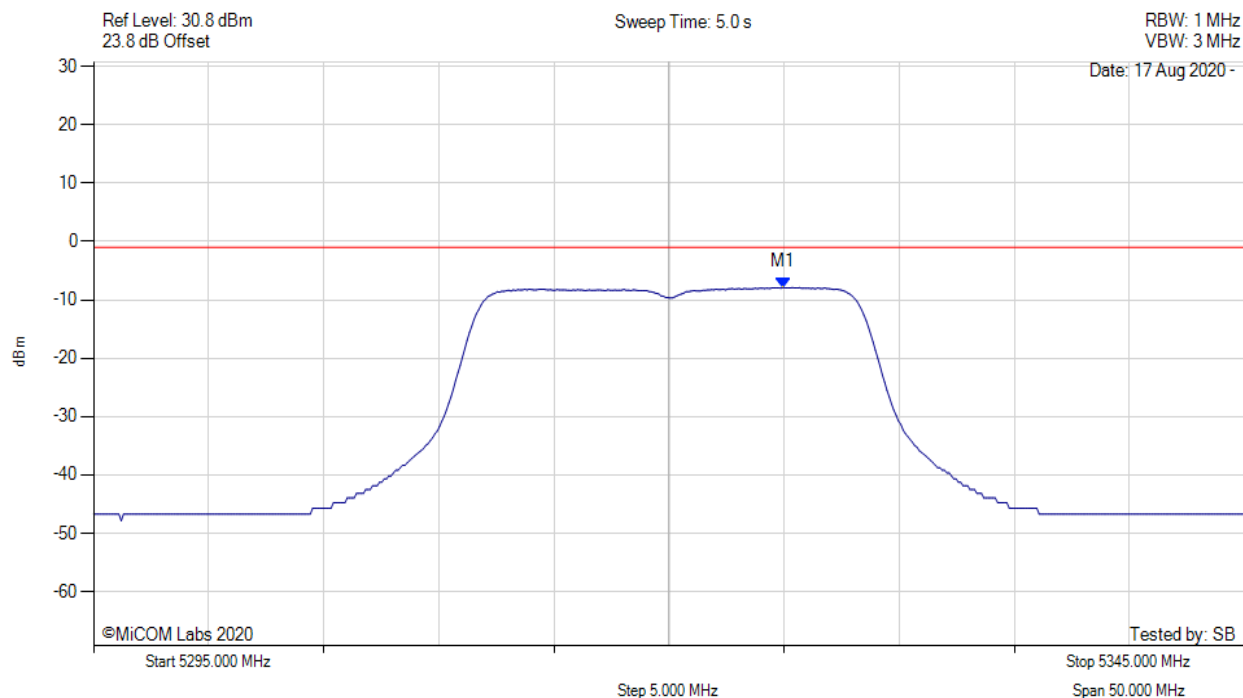
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5293.900 MHz : -4.588 dBm M1 + DCCF : 5293.900 MHz : -4.544 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -6.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



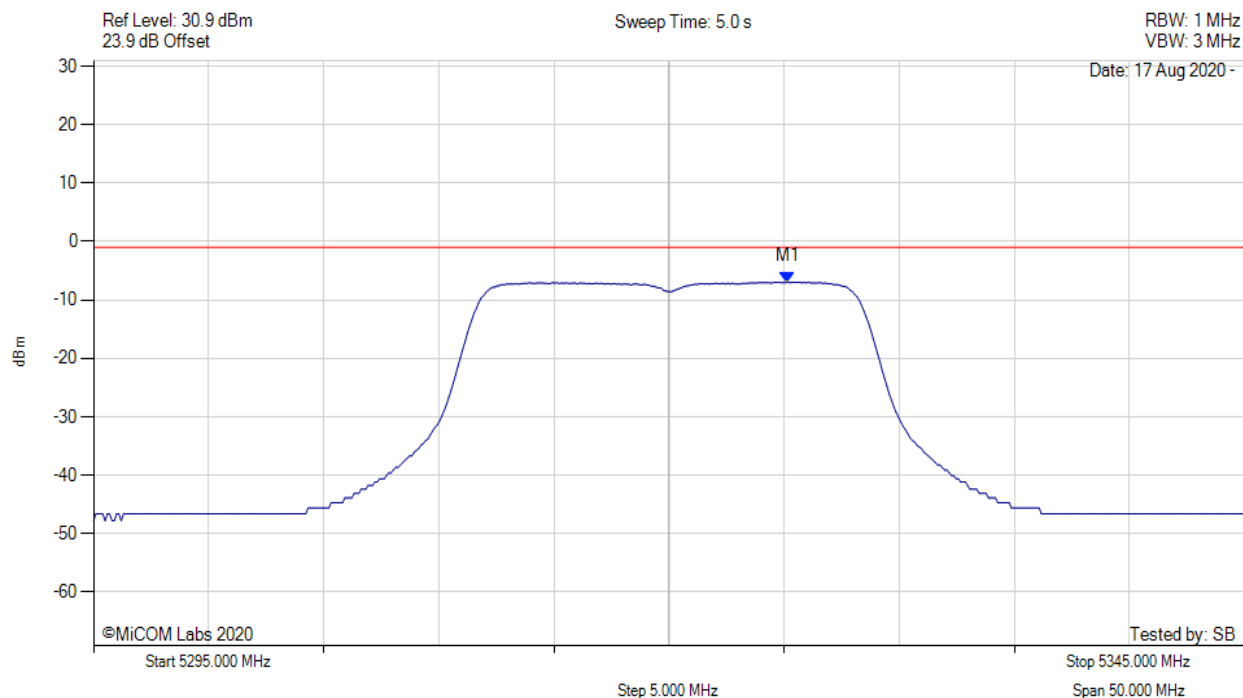
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5324.960 MHz : -7.888 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



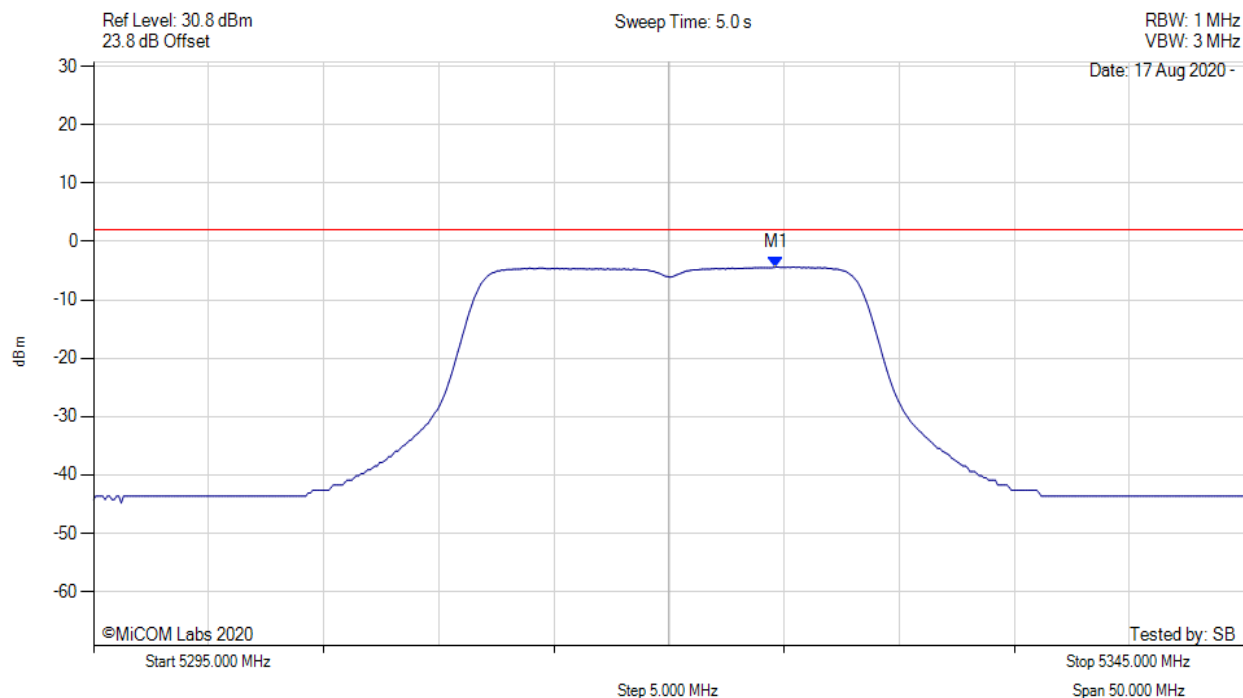
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.160 MHz : -6.902 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



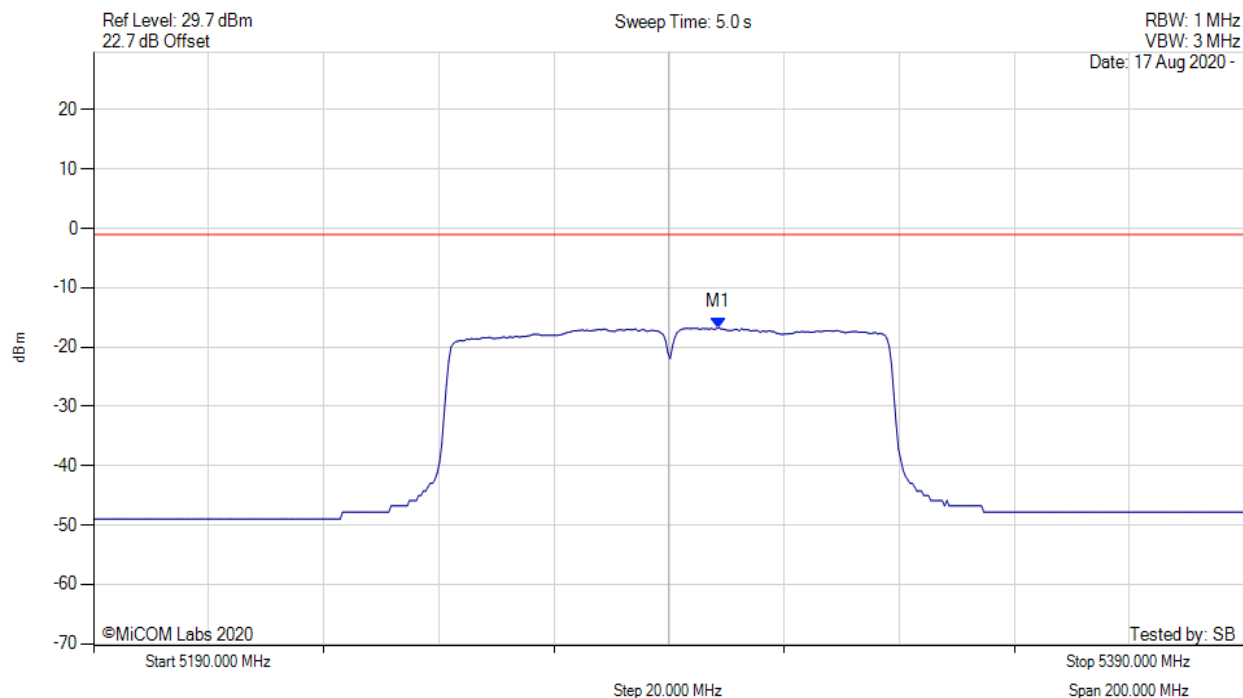
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5324.700 MHz : -4.392 dBm M1 + DCCF : 5324.700 MHz : -4.348 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -6.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



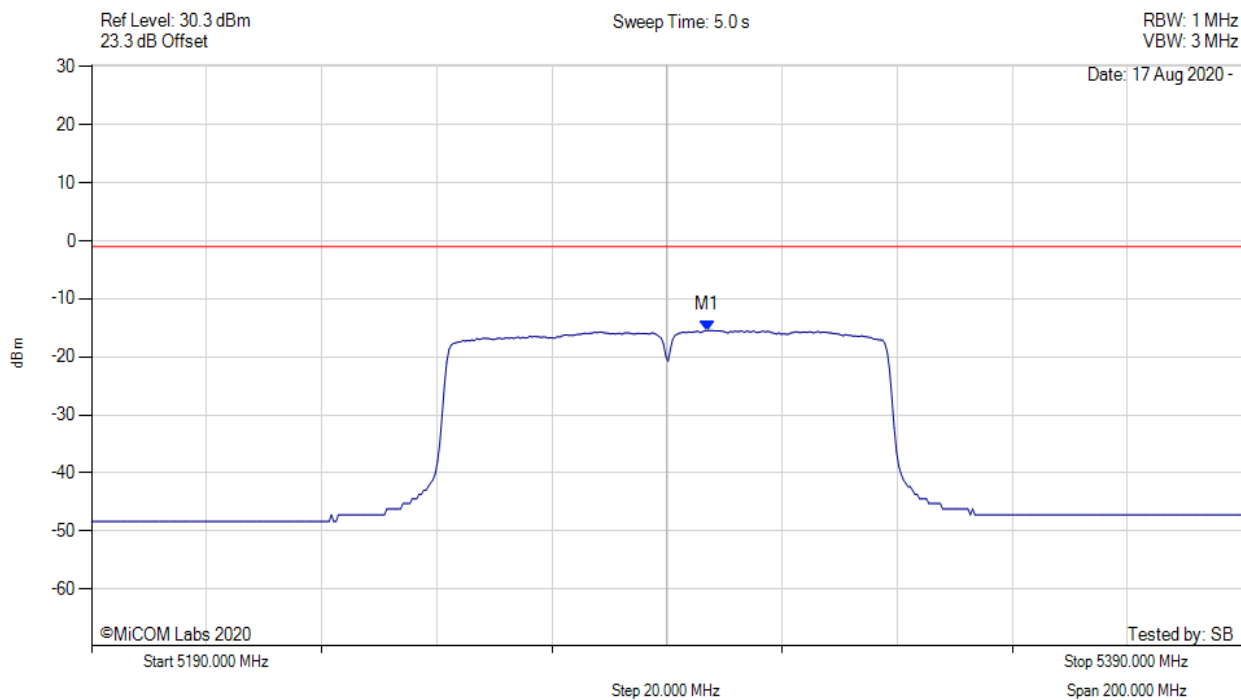
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5298.617 MHz : -16.708 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



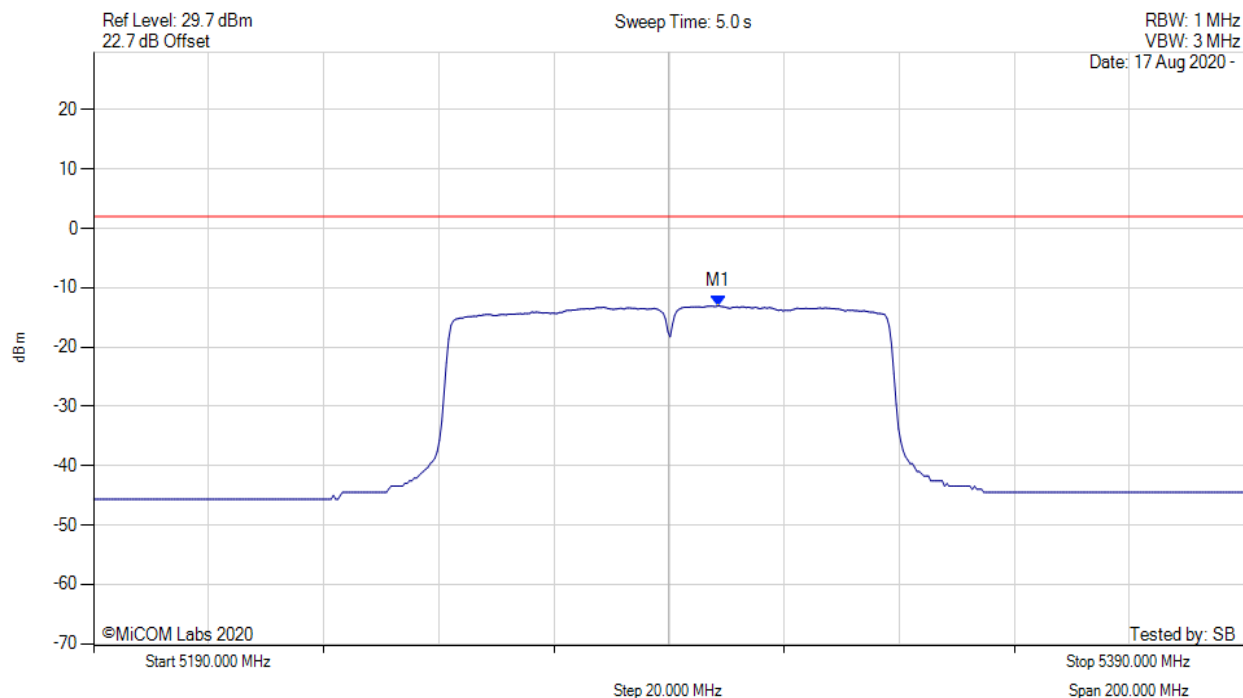
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.014 MHz : -15.438 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



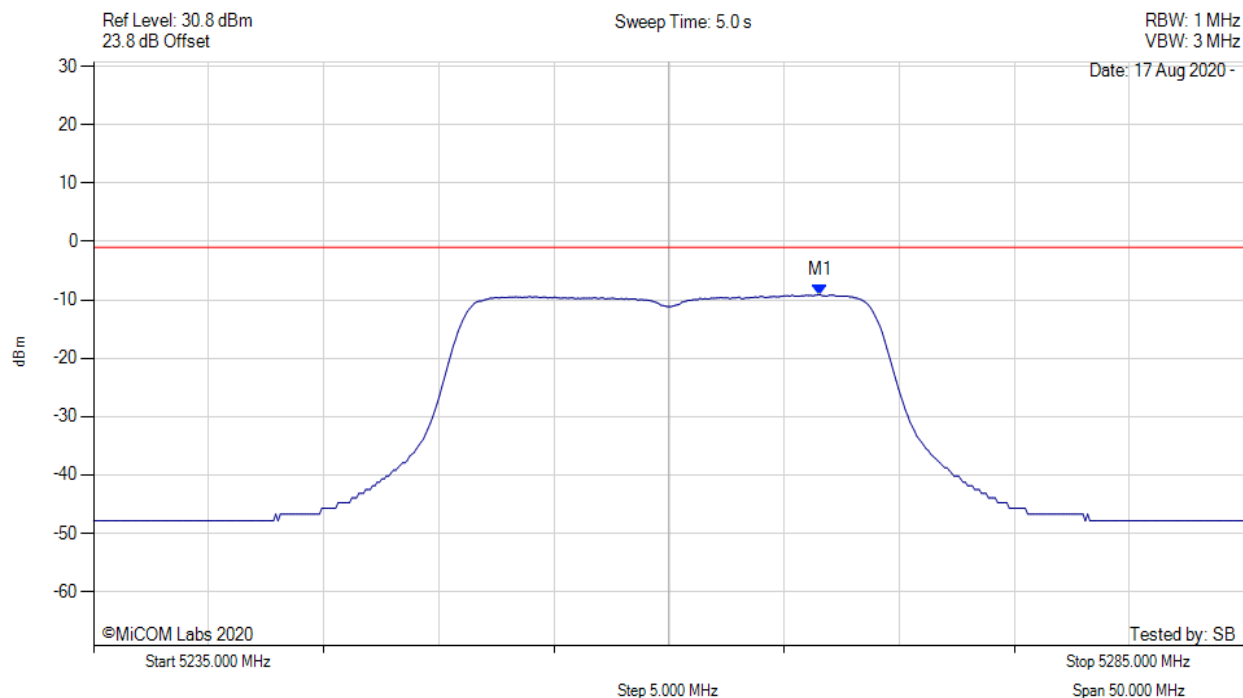
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5298.600 MHz : -13.032 dBm M1 + DCCF : 5298.600 MHz : -12.170 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ 2.0 dBm Margin: -14.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



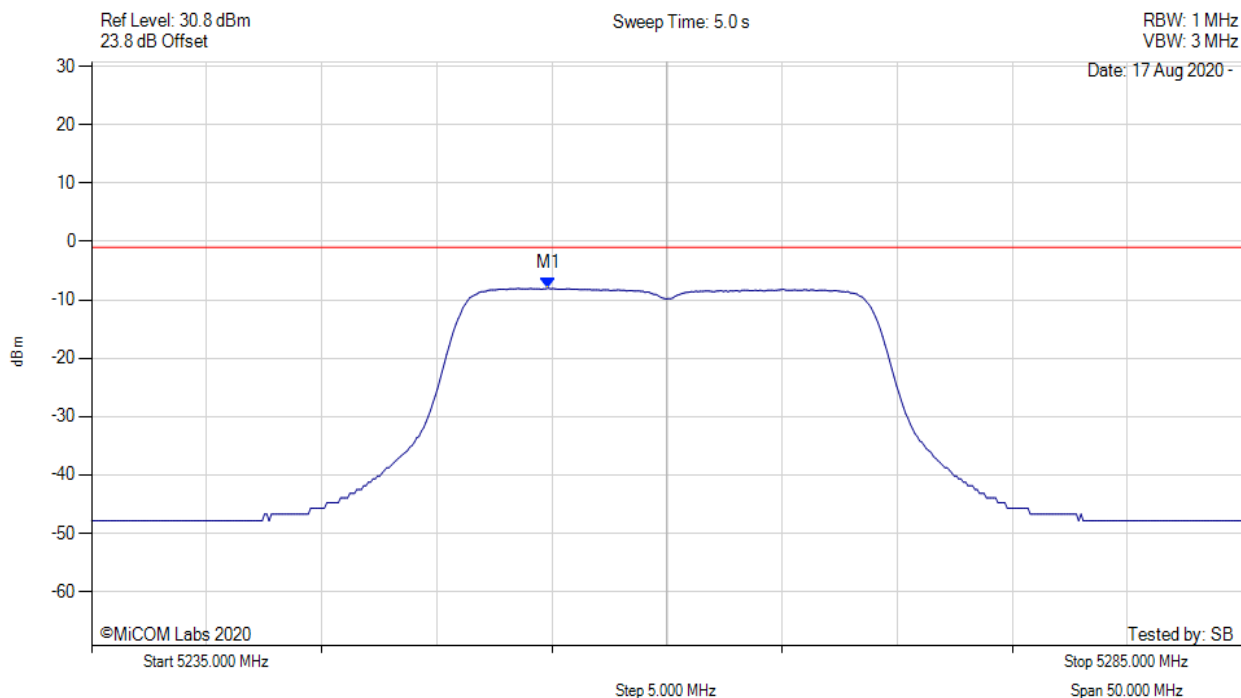
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.563 MHz : -9.116 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



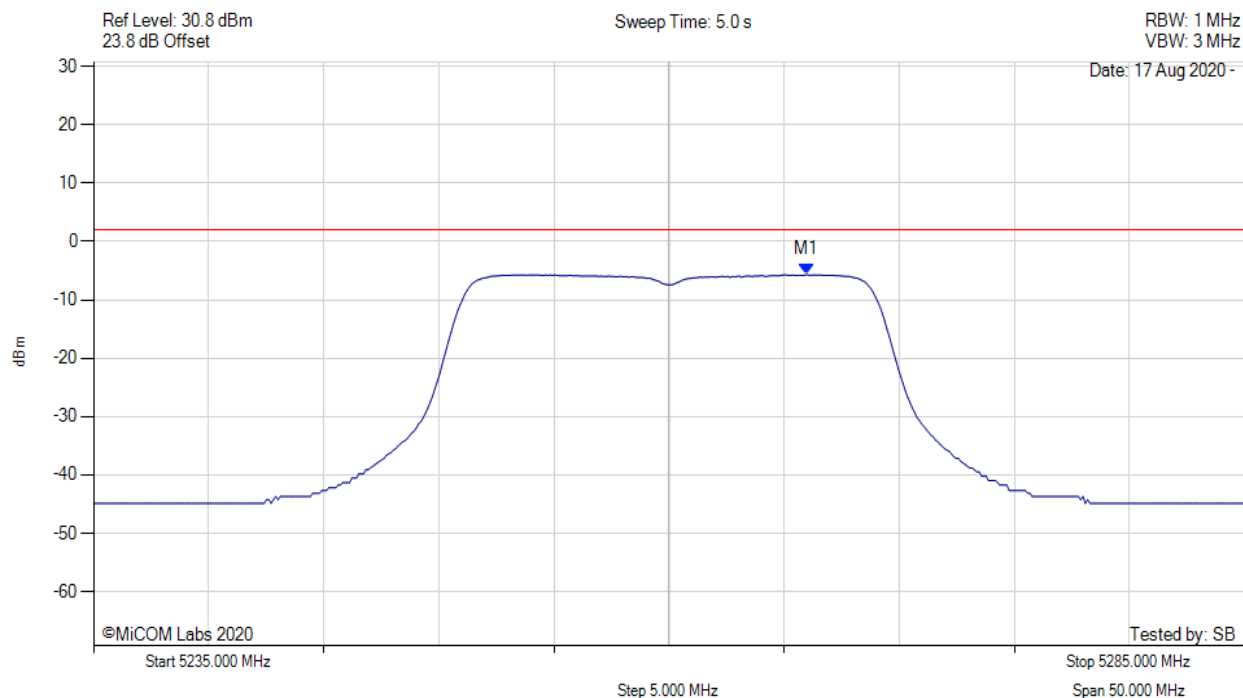
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5254.840 MHz : -8.001 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



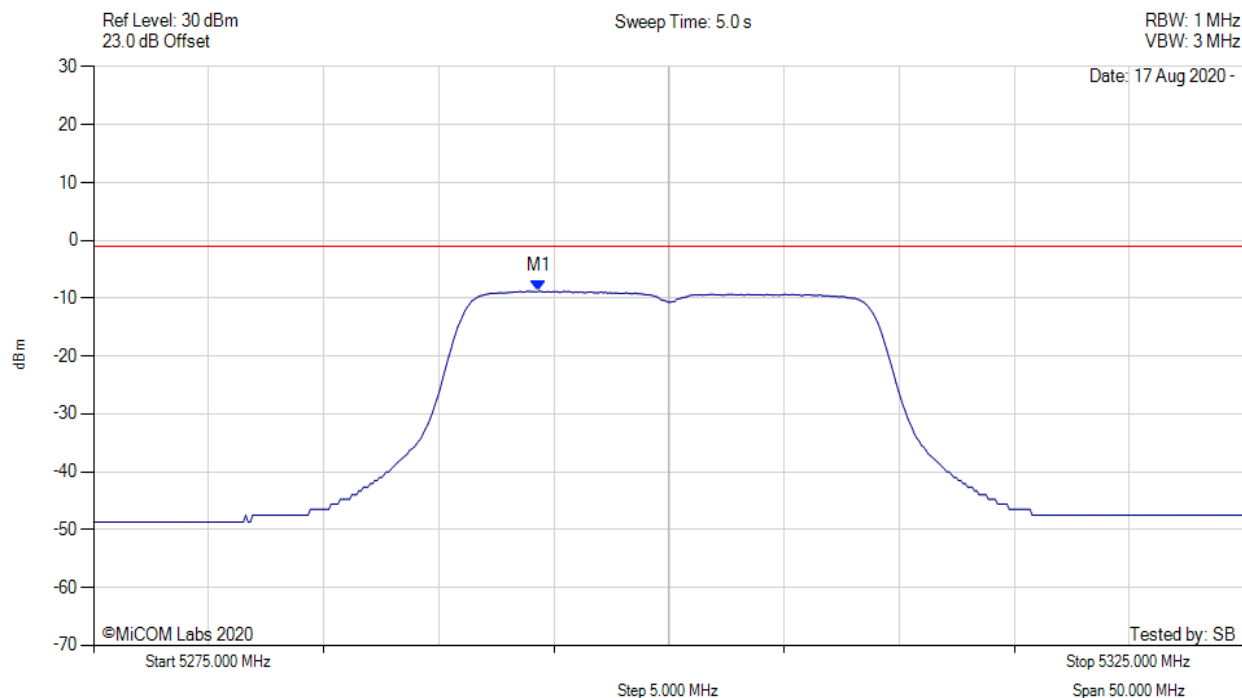
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.000 MHz : -5.694 dBm M1 + DCCF : 5266.000 MHz : -5.606 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -7.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



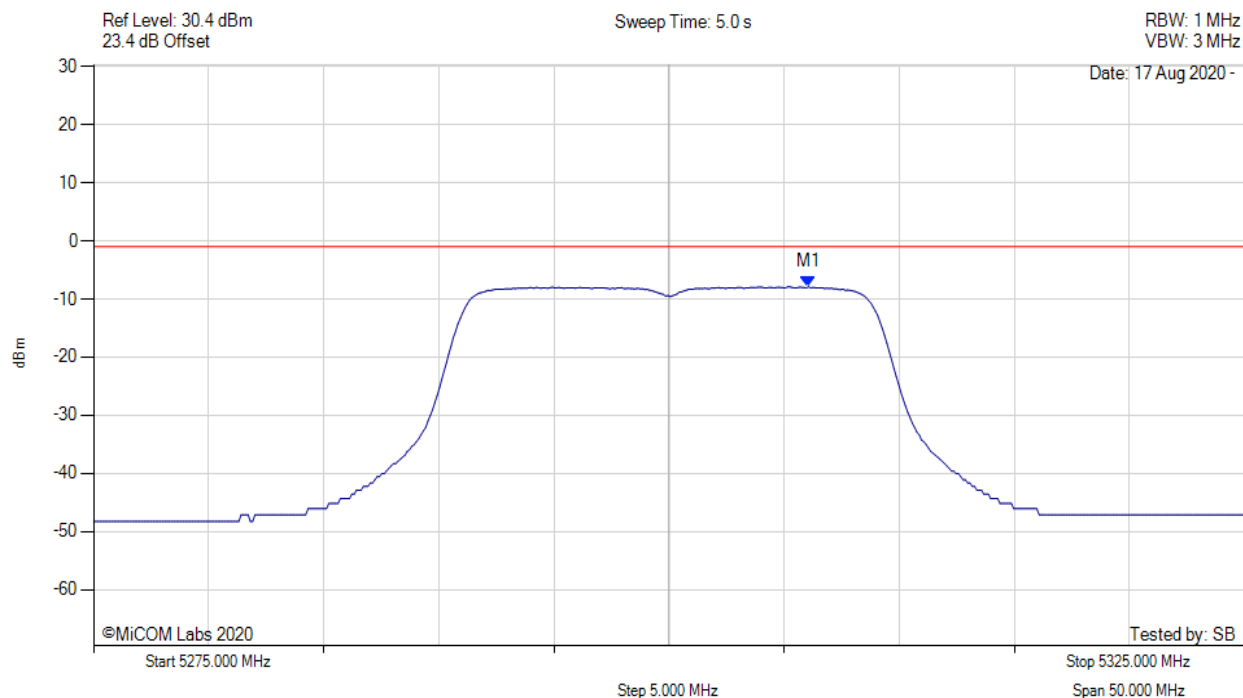
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5294.339 MHz : -8.751 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



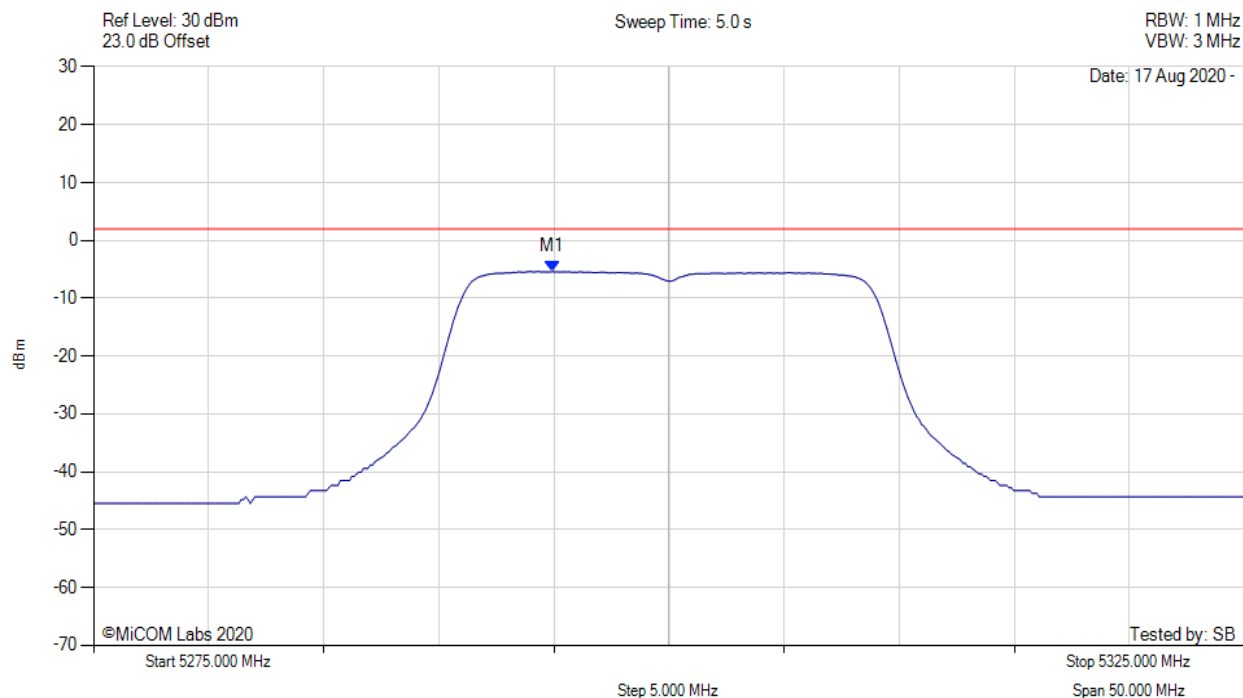
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5306.062 MHz : -7.899 dBm	Channel Frequency: 5300.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



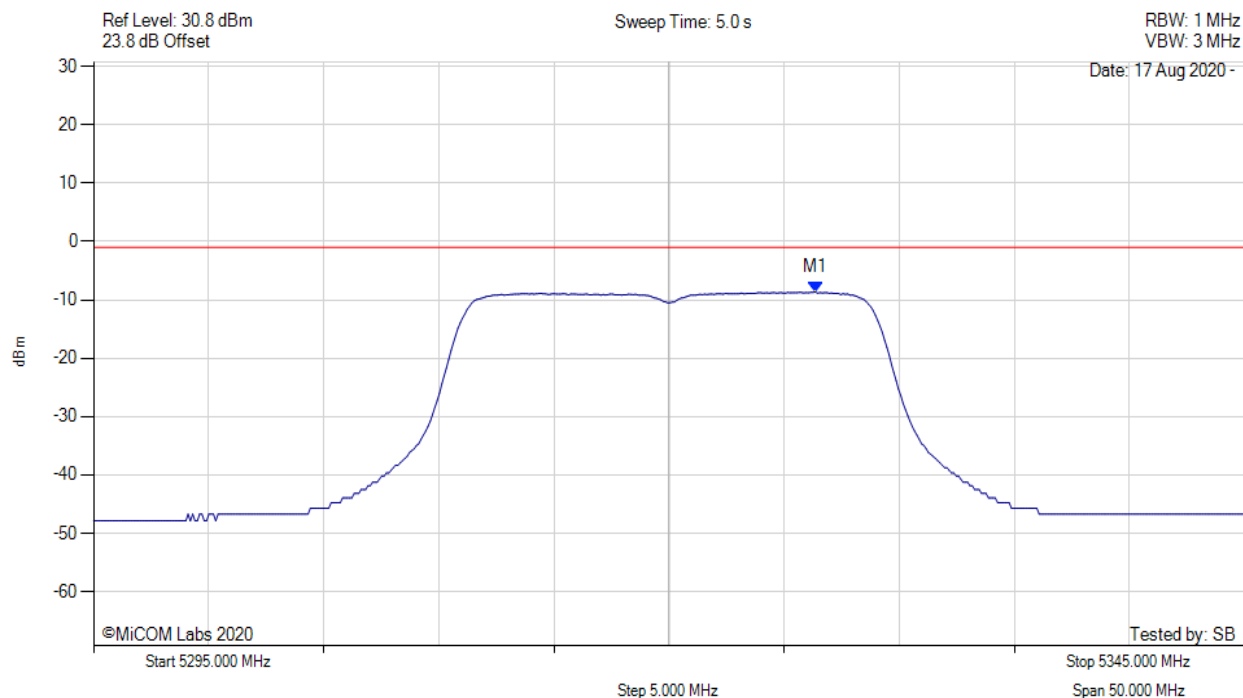
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5294.900 MHz : -5.383 dBm M1 + DCCF : 5294.900 MHz : -5.295 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -7.3 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



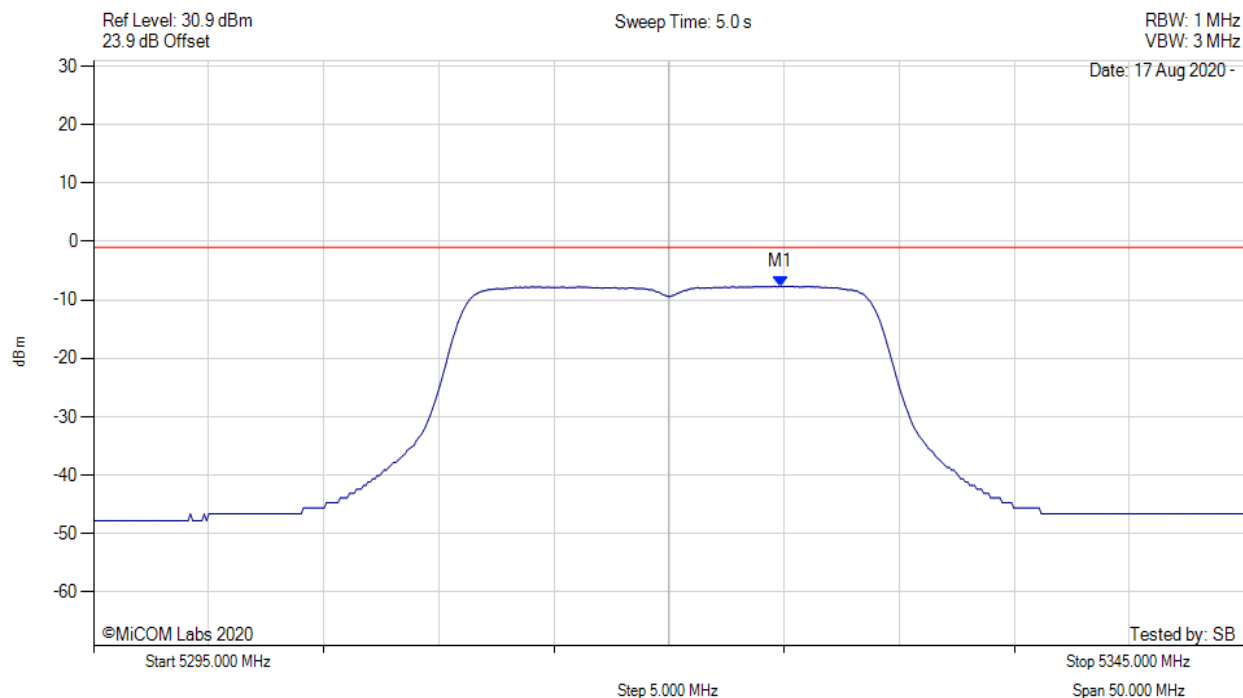
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5326.363 MHz : -8.669 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



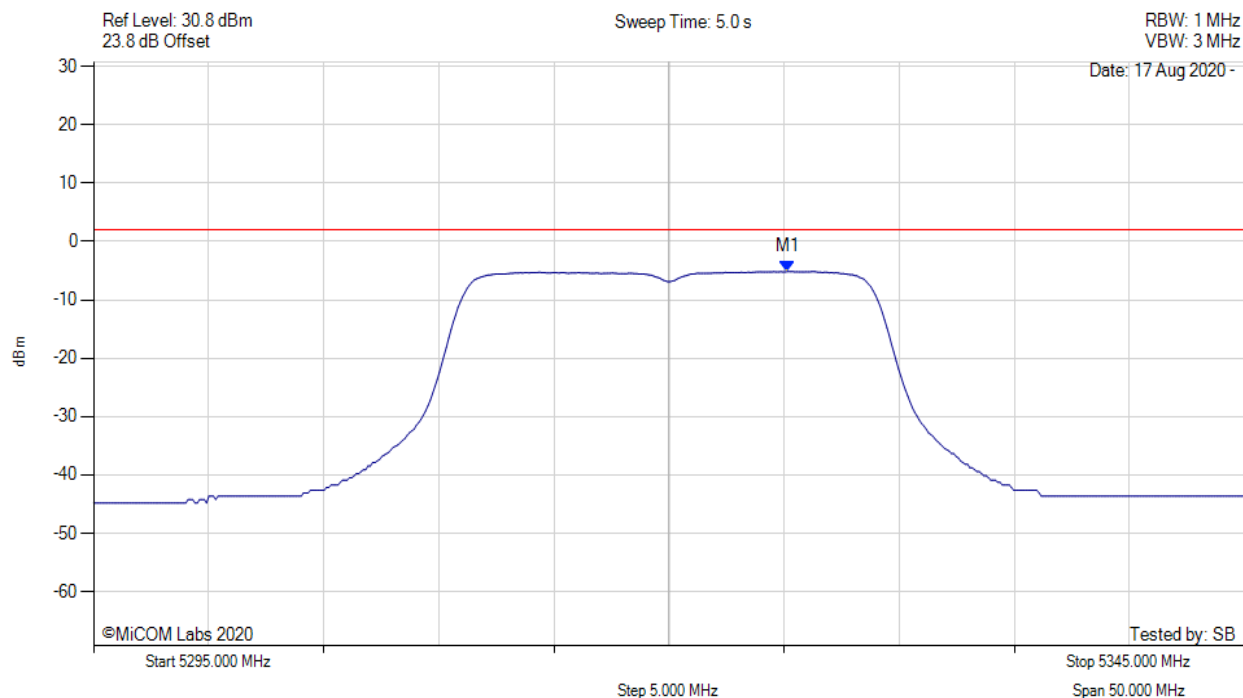
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5324.860 MHz : -7.665 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



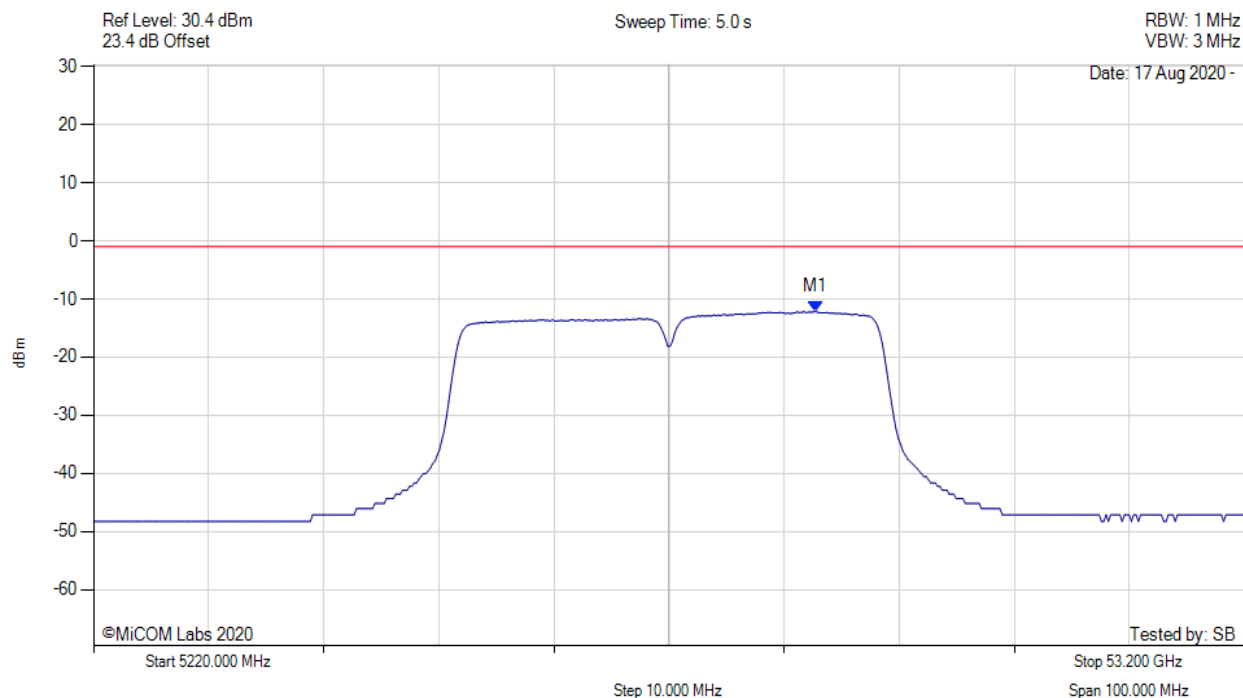
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.200 MHz : -5.158 dBm M1 + DCCF : 5325.200 MHz : -5.070 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -7.1 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



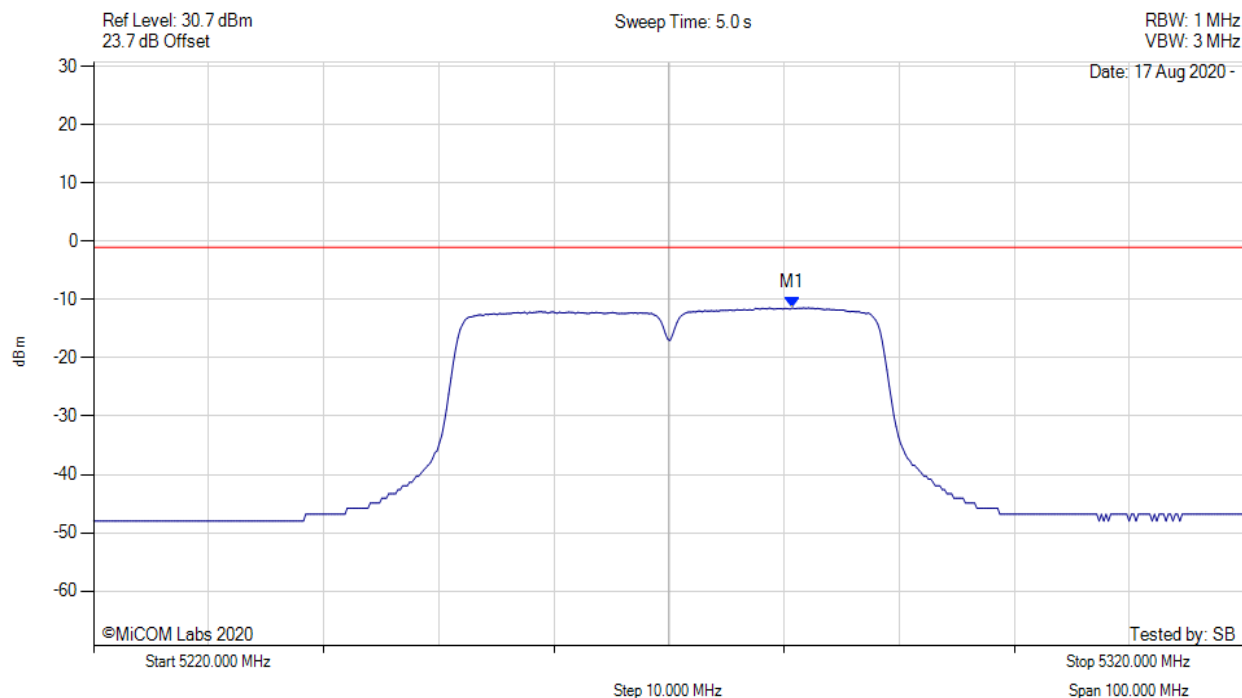
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5282.725 MHz : -12.120 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



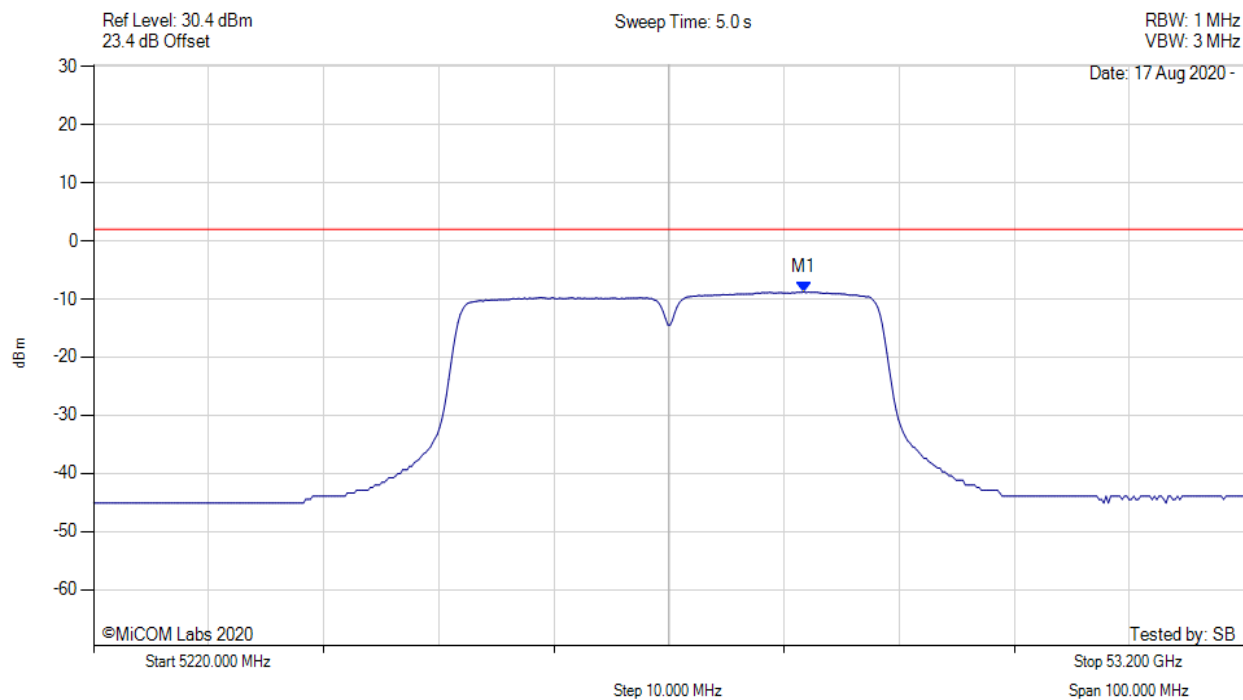
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5280.721 MHz : -11.423 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



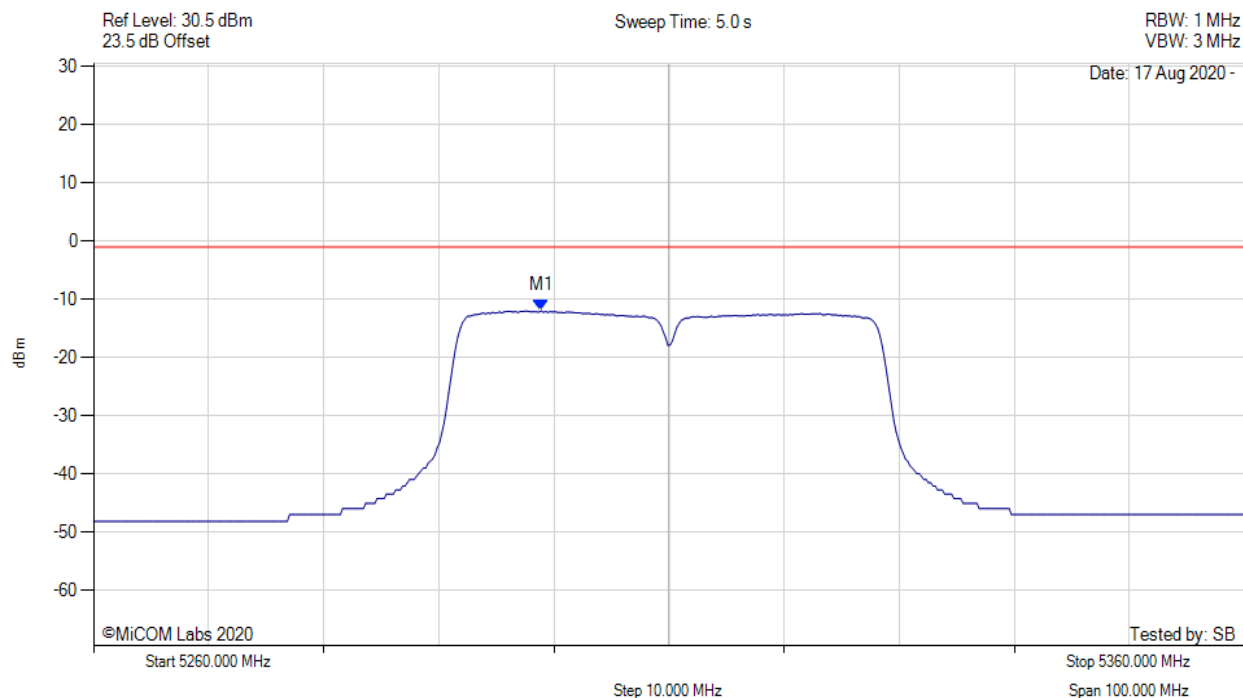
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5281.700 MHz : -8.784 dBm M1 + DCCF : 5281.700 MHz : -8.422 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ 2.0 dBm Margin: -10.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



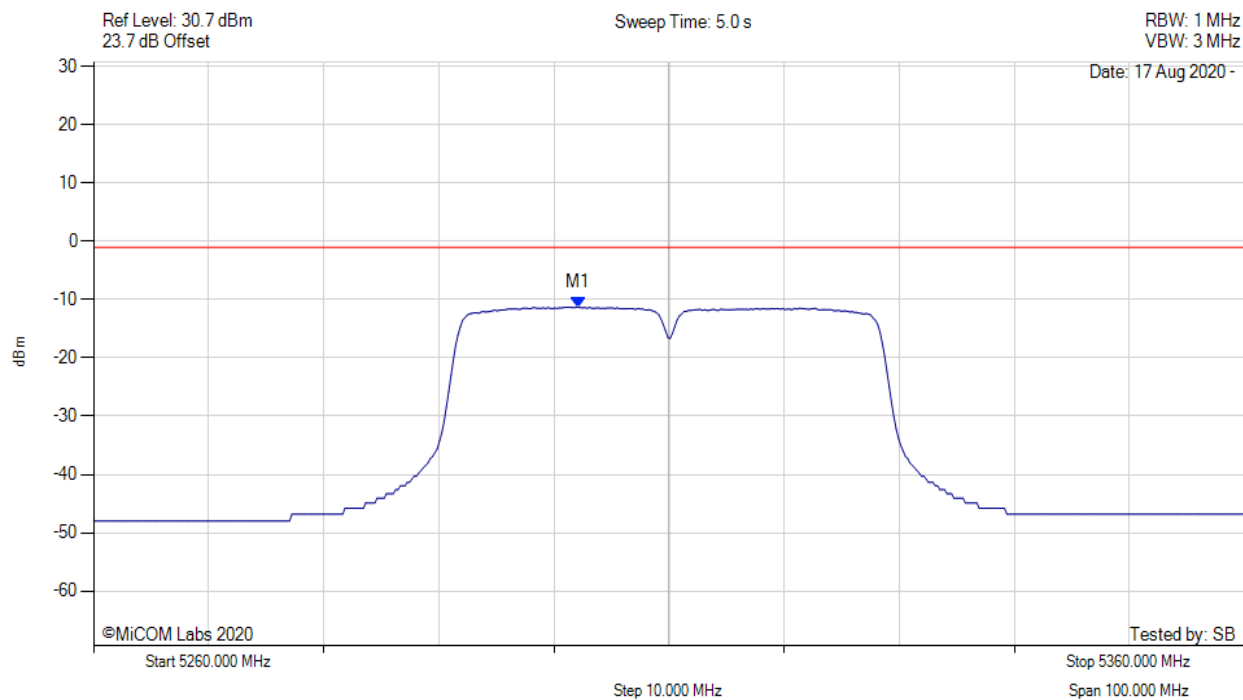
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5298.878 MHz : -11.982 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



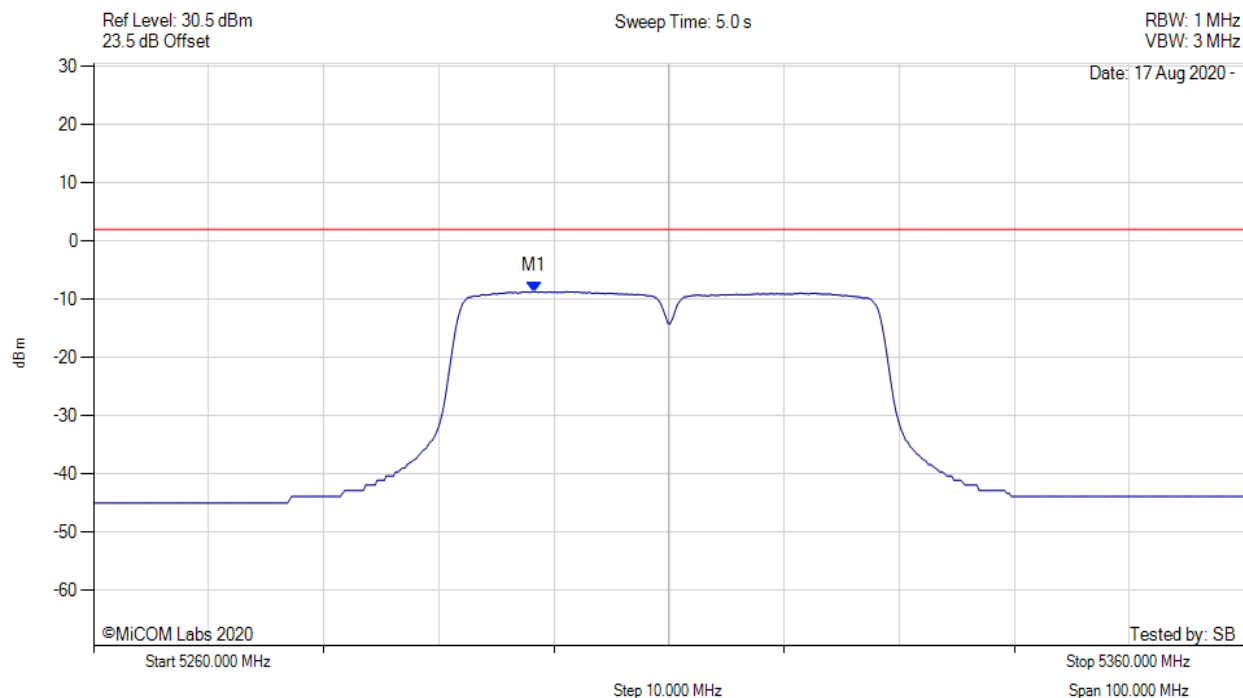
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5302.084 MHz : -11.259 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



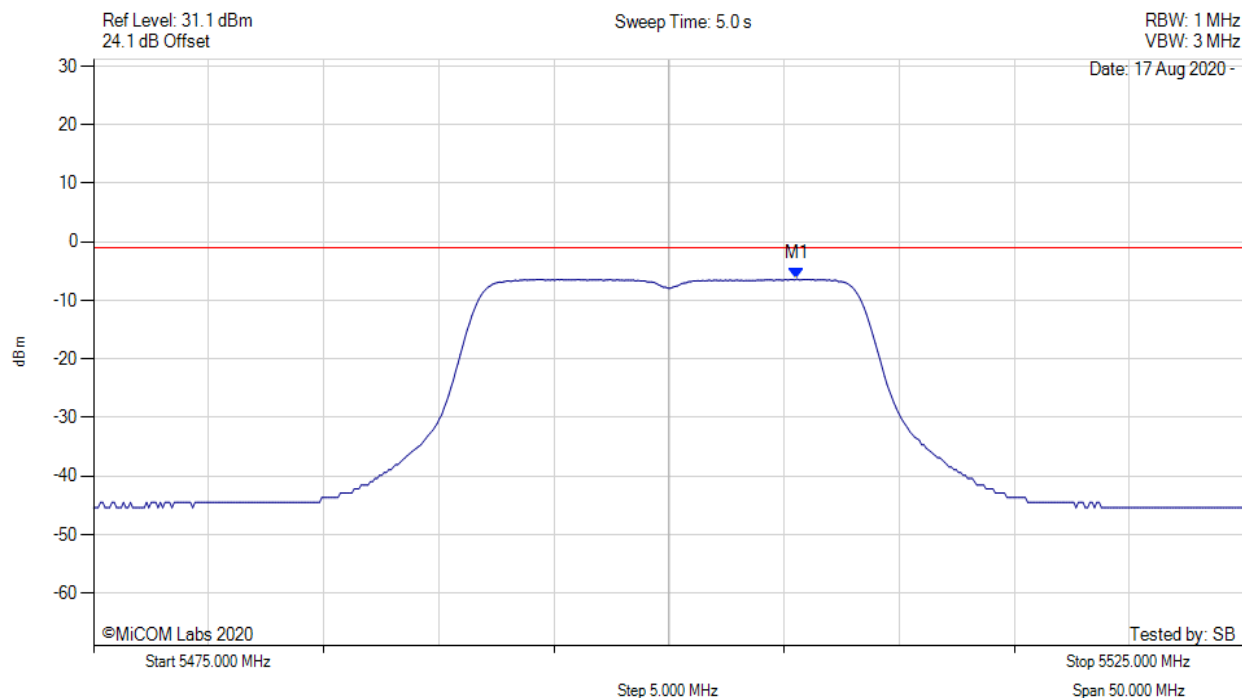
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5298.300 MHz : -8.697 dBm M1 + DCCF : 5298.300 MHz : -8.335 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ 2.0 dBm Margin: -10.3 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



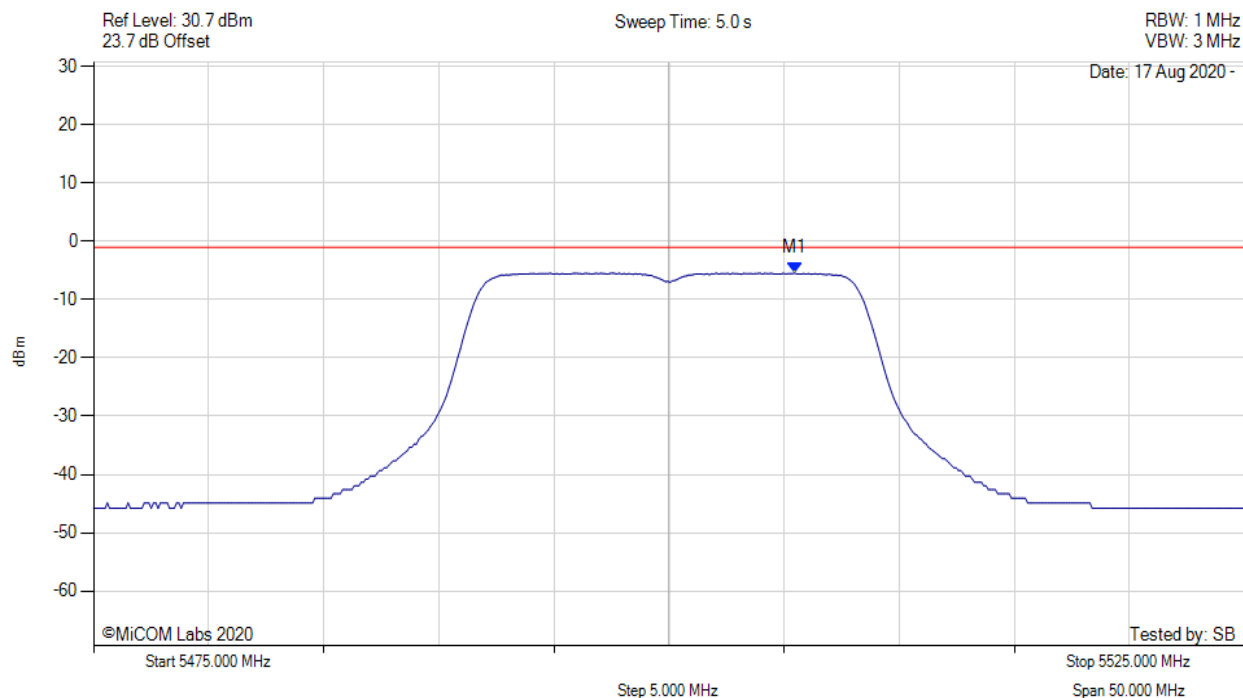
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.561 MHz : -6.328 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



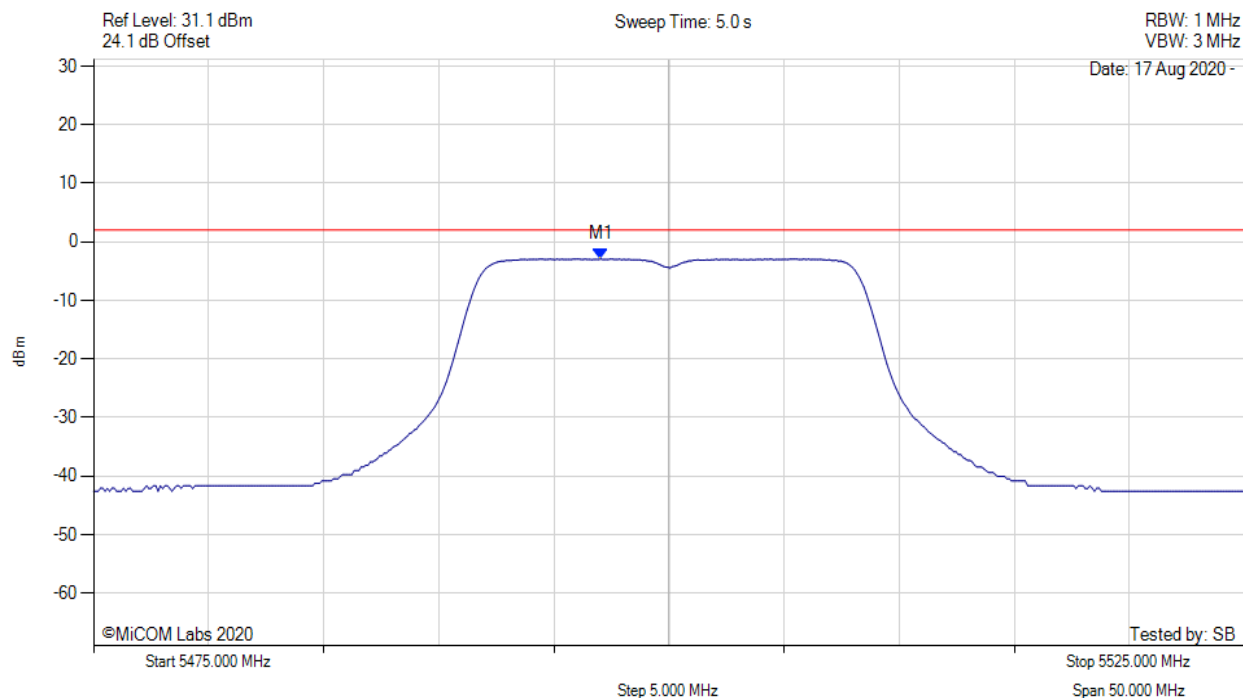
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.461 MHz : -5.431 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



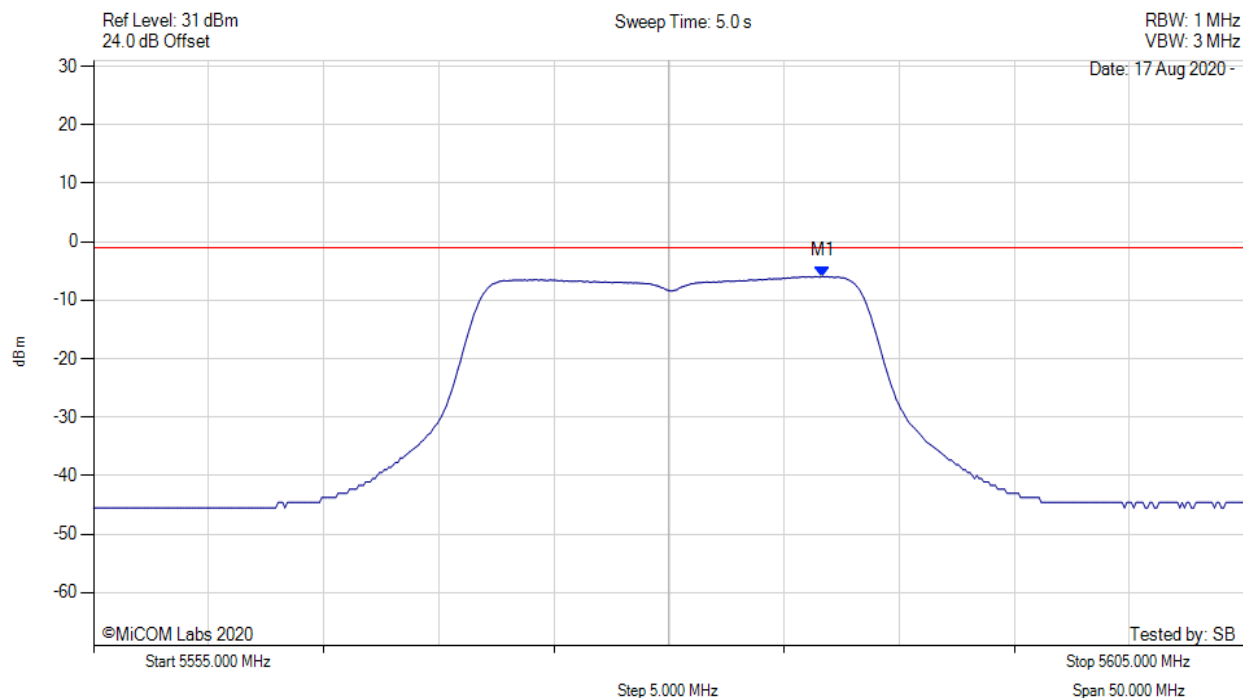
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5497.000 MHz : -2.920 dBm M1 + DCCF : 5497.000 MHz : -2.876 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -4.9 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



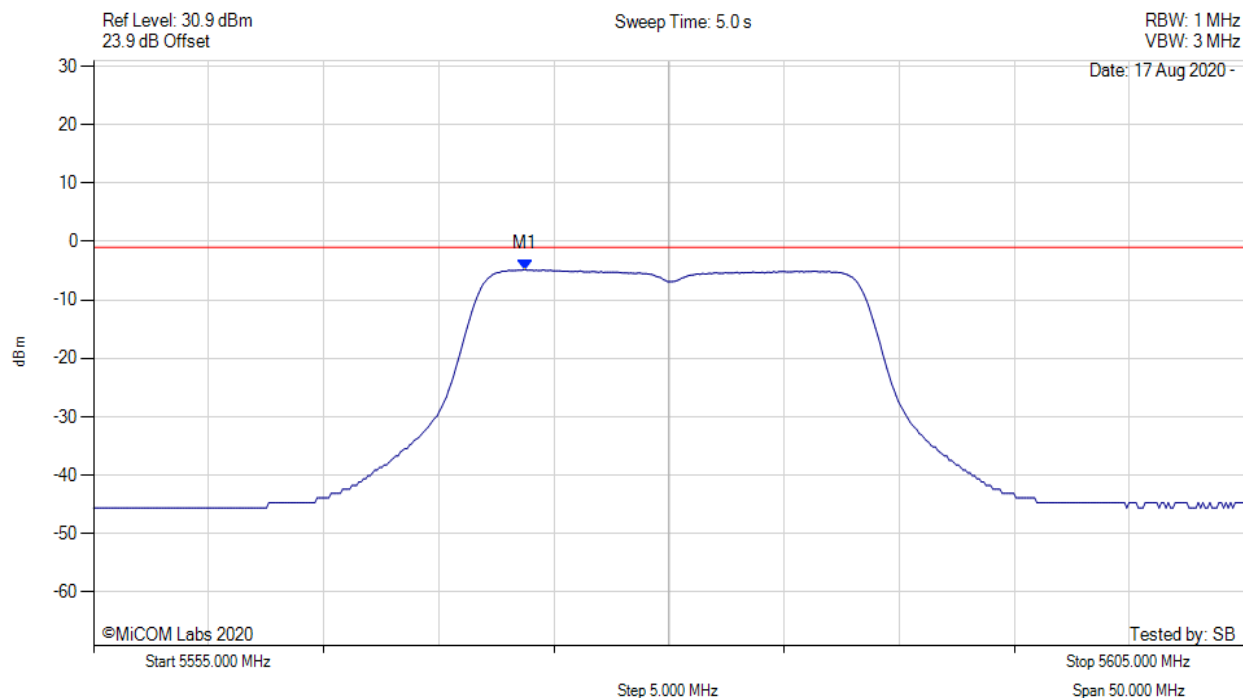
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.663 MHz : -5.906 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



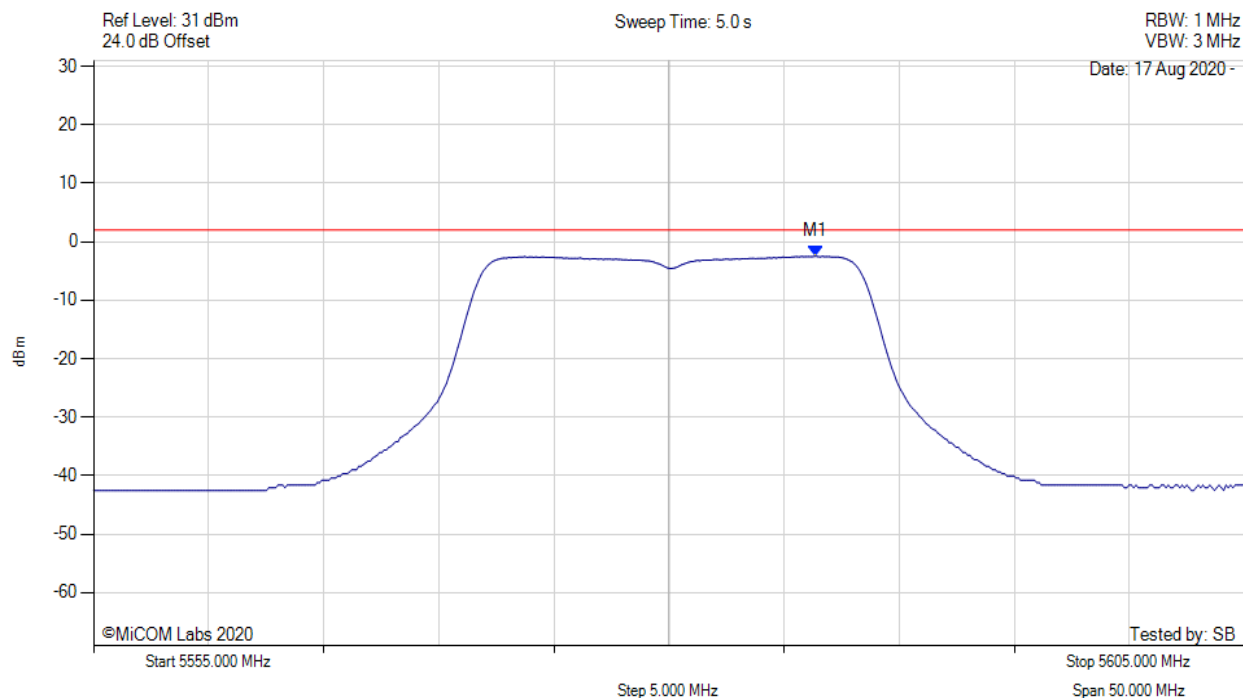
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5573.737 MHz : -4.761 dBm	Channel Frequency: 5580.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



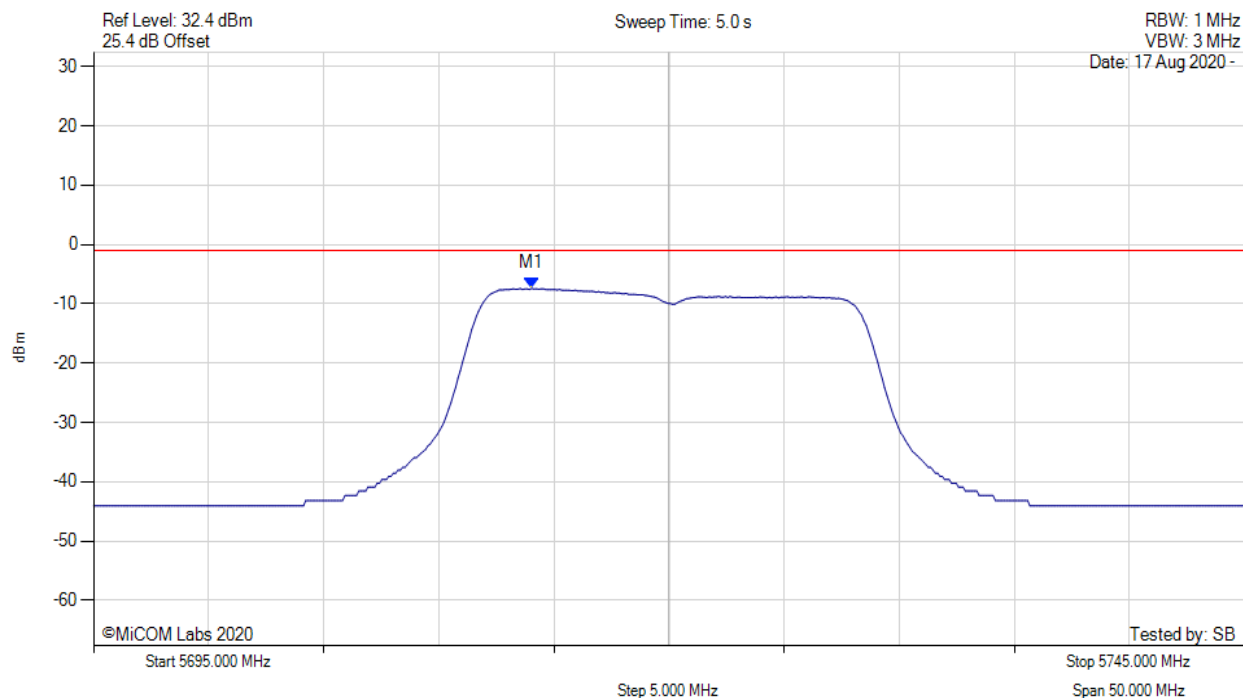
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.400 MHz : -2.468 dBm M1 + DCCF : 5586.400 MHz : -2.424 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -4.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



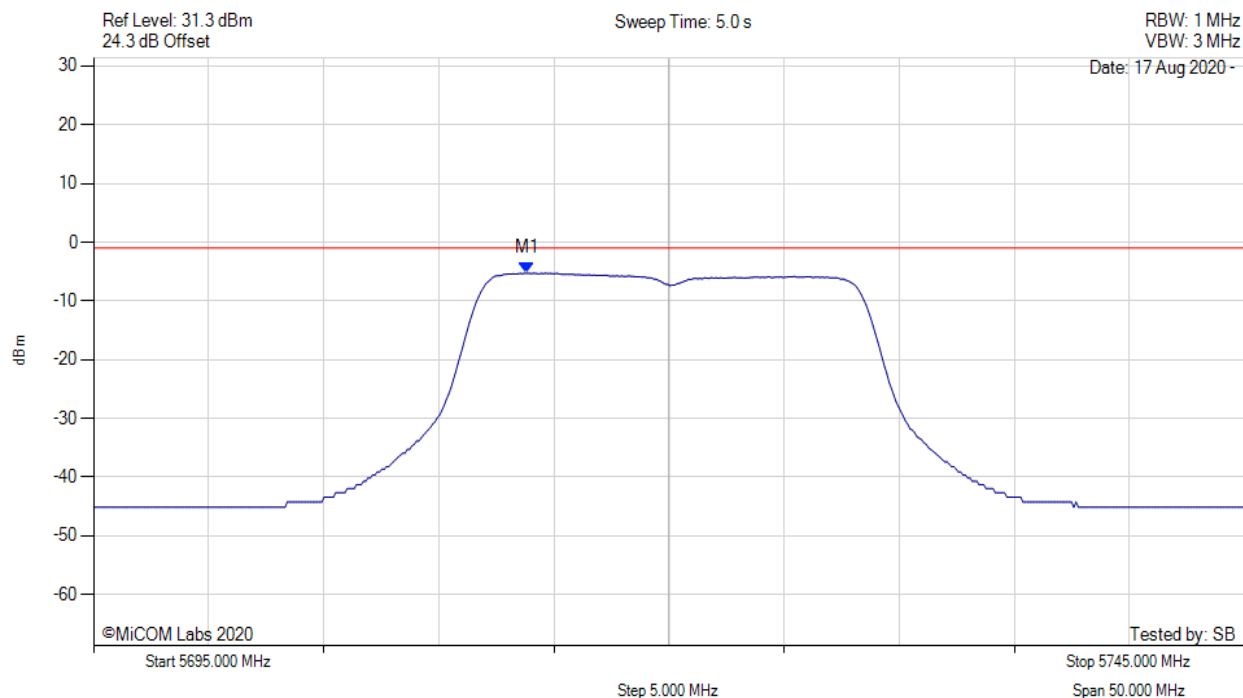
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5714.038 MHz : -7.402 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



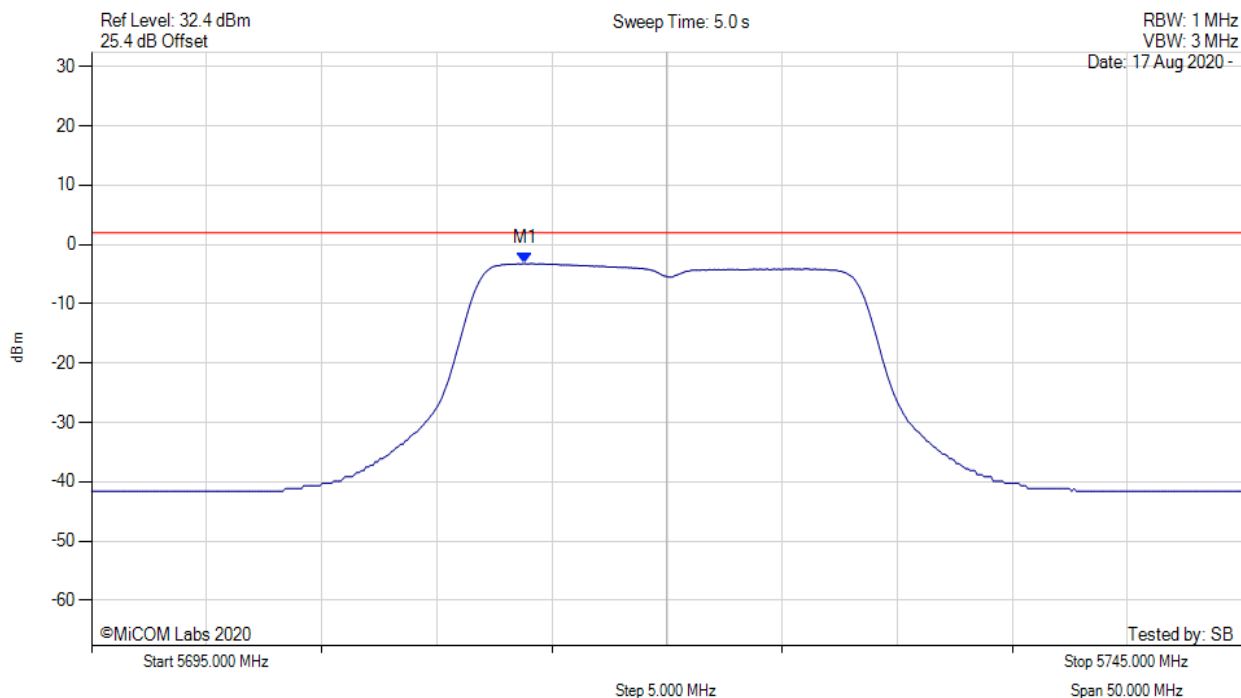
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.838 MHz : -5.268 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



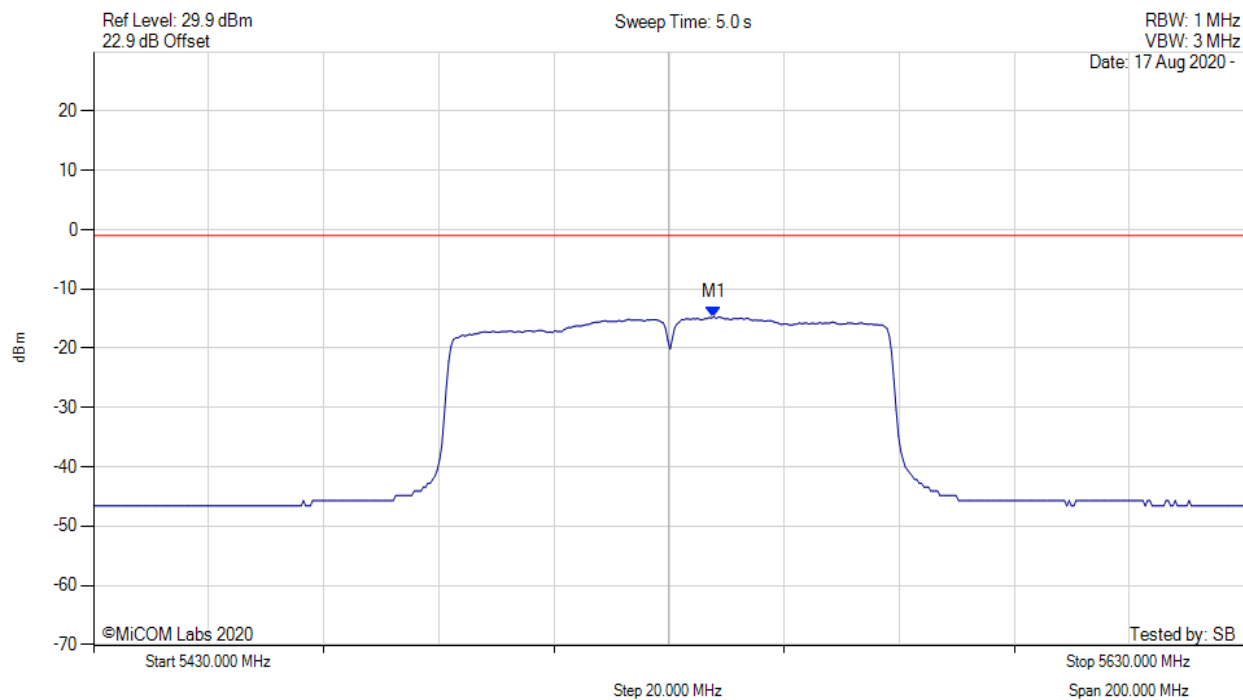
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.800 MHz : -3.227 dBm M1 + DCCF : 5713.800 MHz : -3.183 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ 2.0 dBm Margin: -5.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



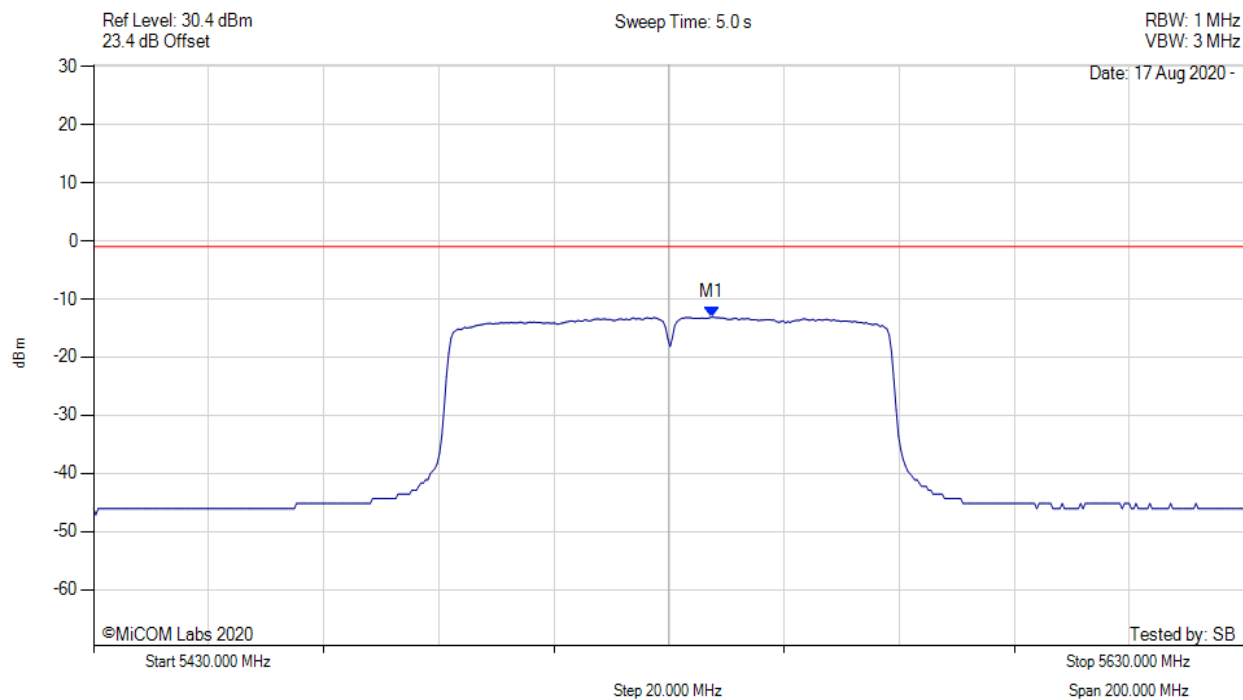
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5537.816 MHz : -14.685 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



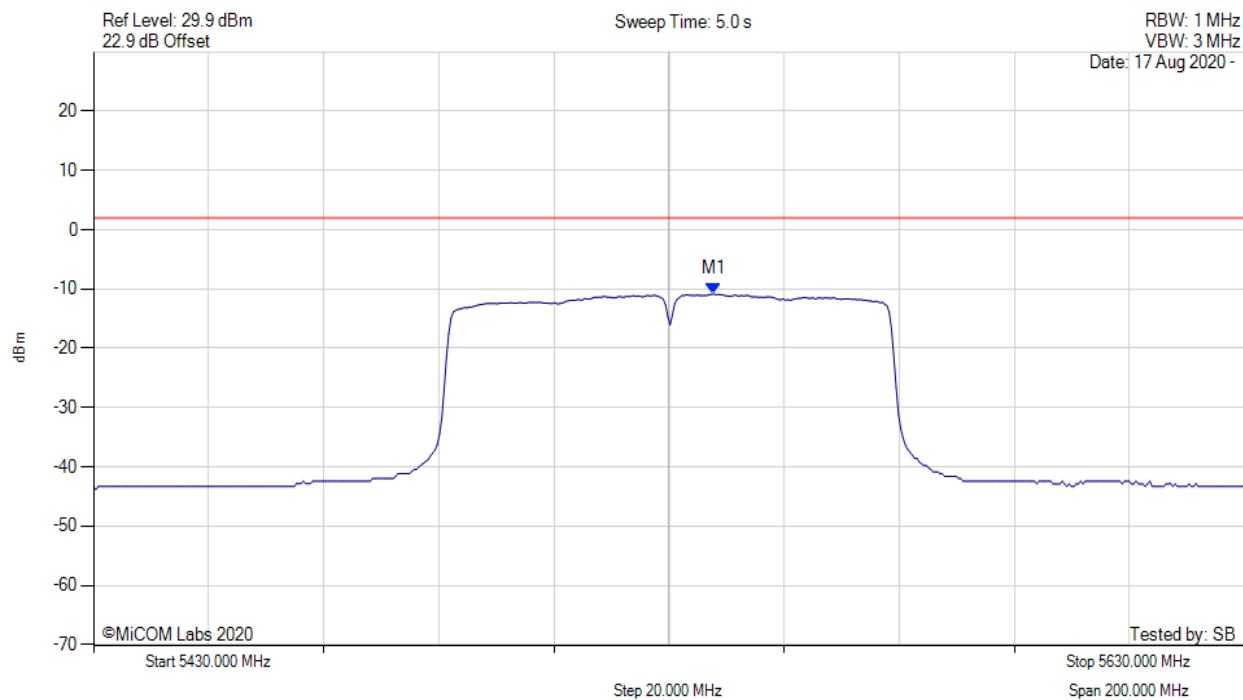
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5537.415 MHz : -13.102 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



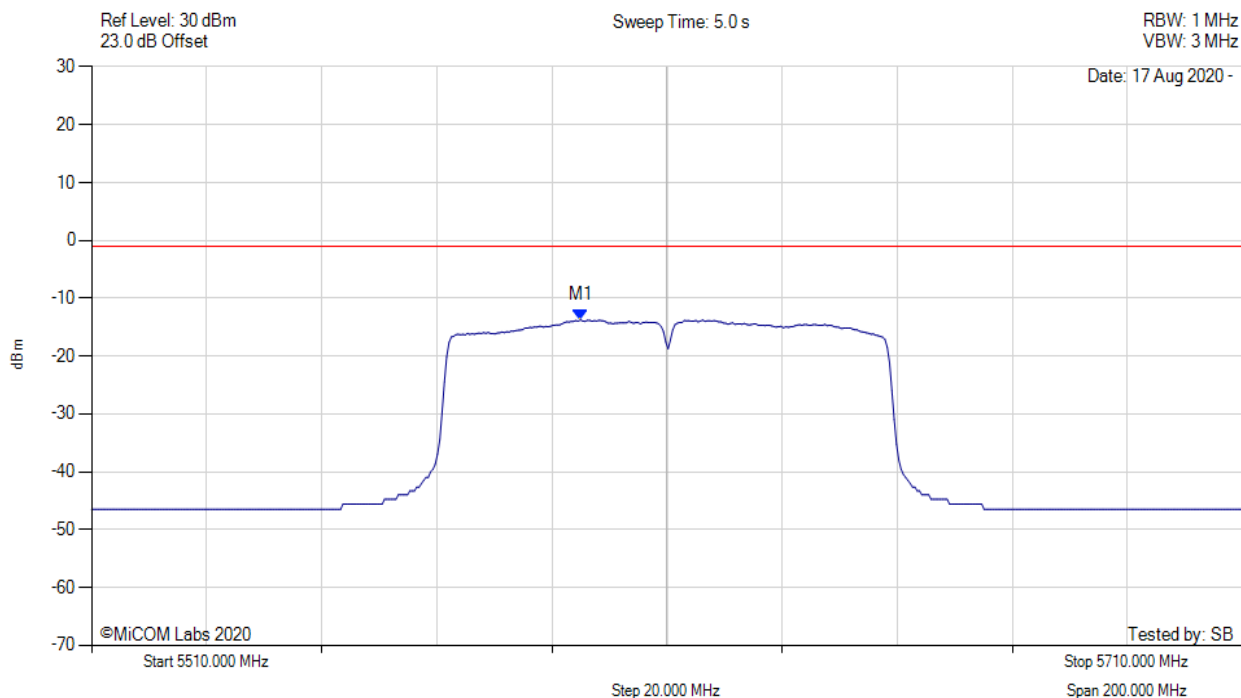
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5537.800 MHz : -10.825 dBm M1 + DCCF : 5537.800 MHz : -9.963 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ 2.0 dBm Margin: -12.0 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



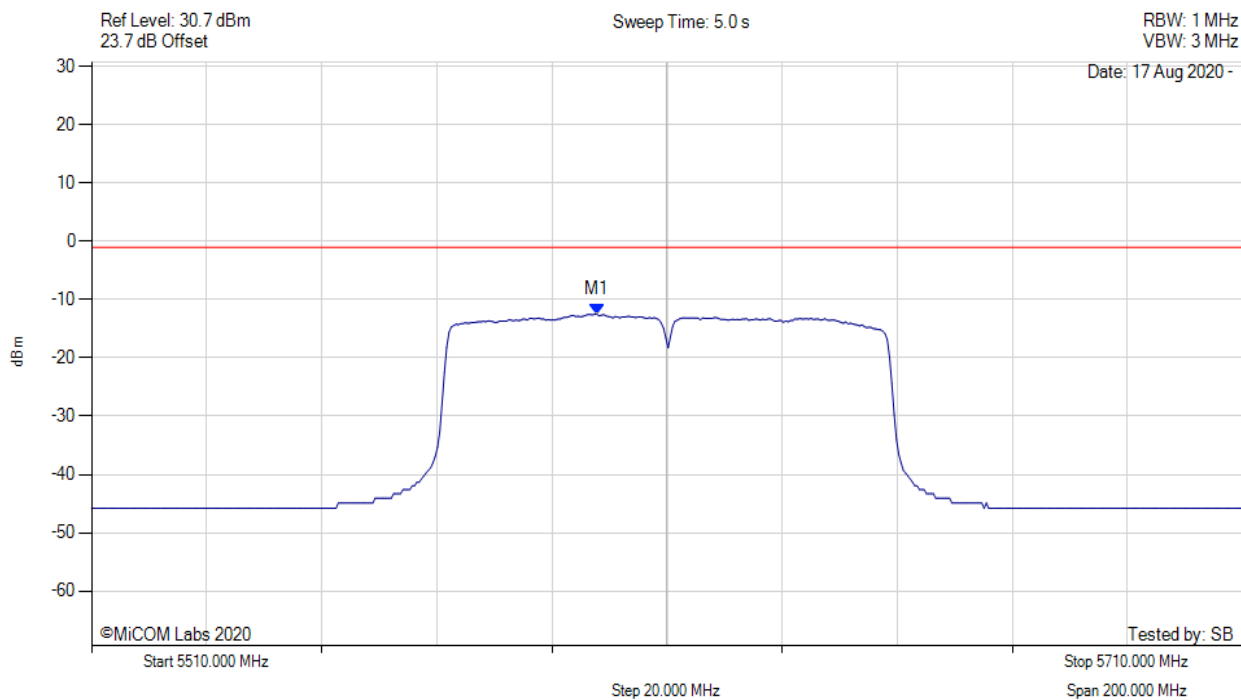
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5594.970 MHz : -13.722 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



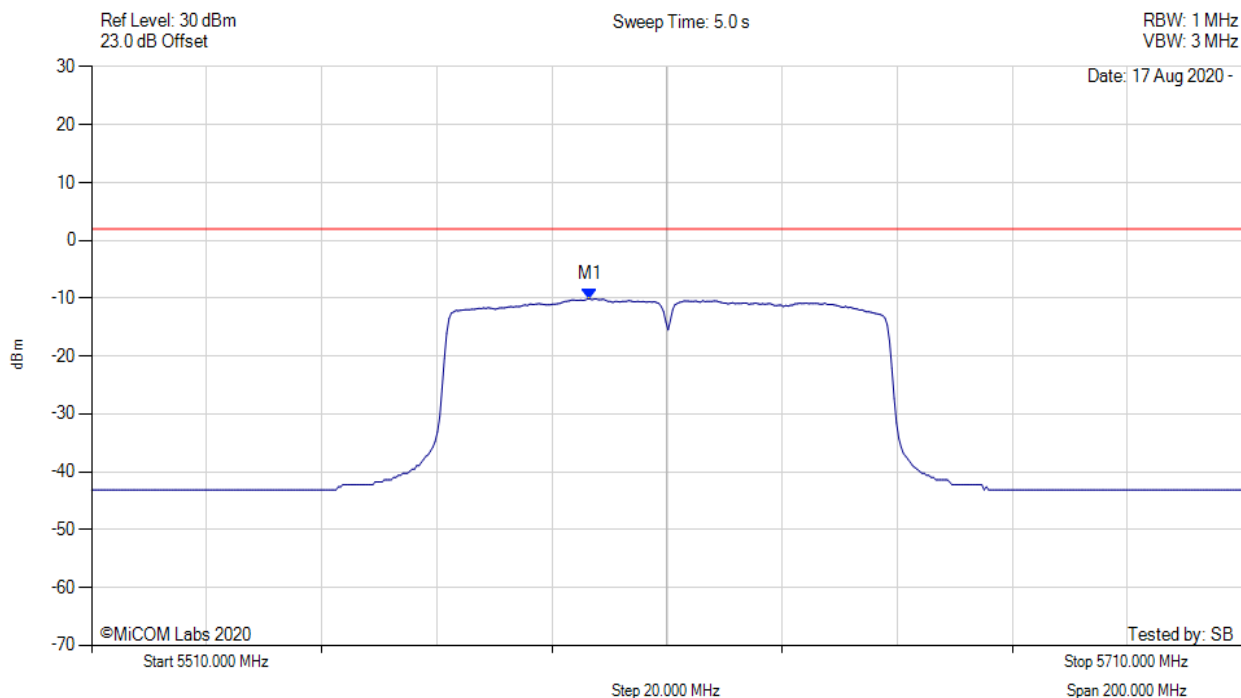
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5597.776 MHz : -12.483 dBm	Channel Frequency: 5610.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



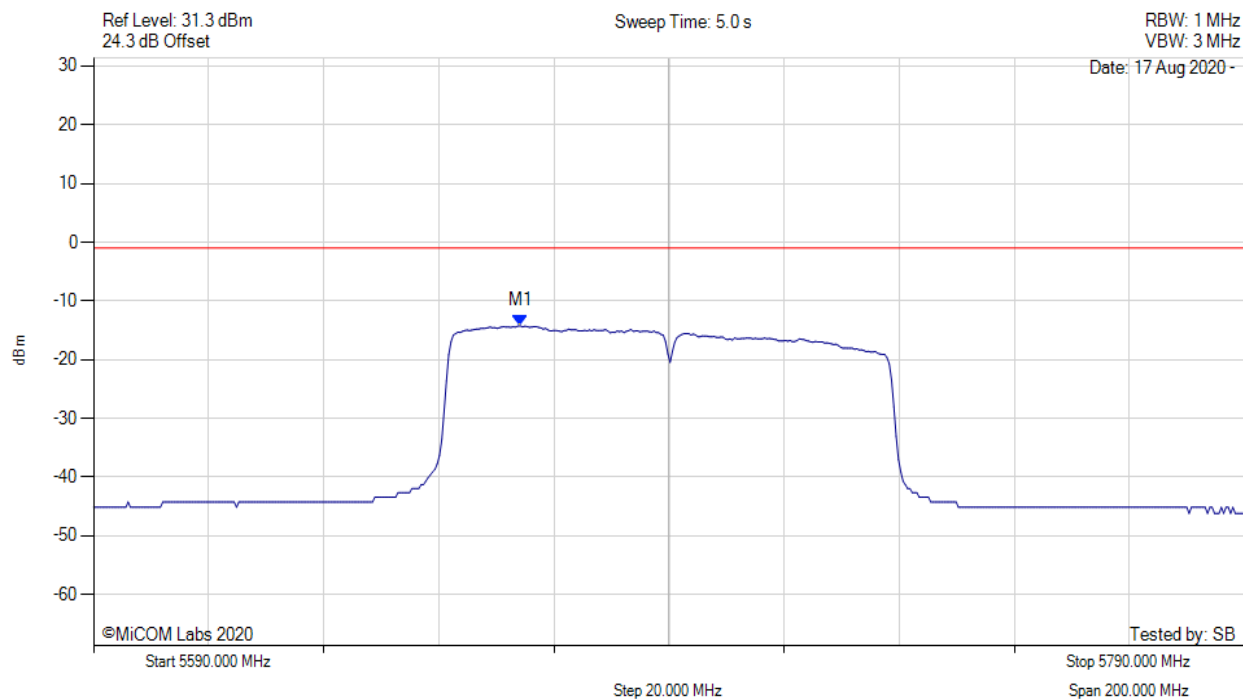
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5596.600 MHz : -10.111 dBm M1 + DCCF : 5596.600 MHz : -9.249 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ 2.0 dBm Margin: -11.3 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



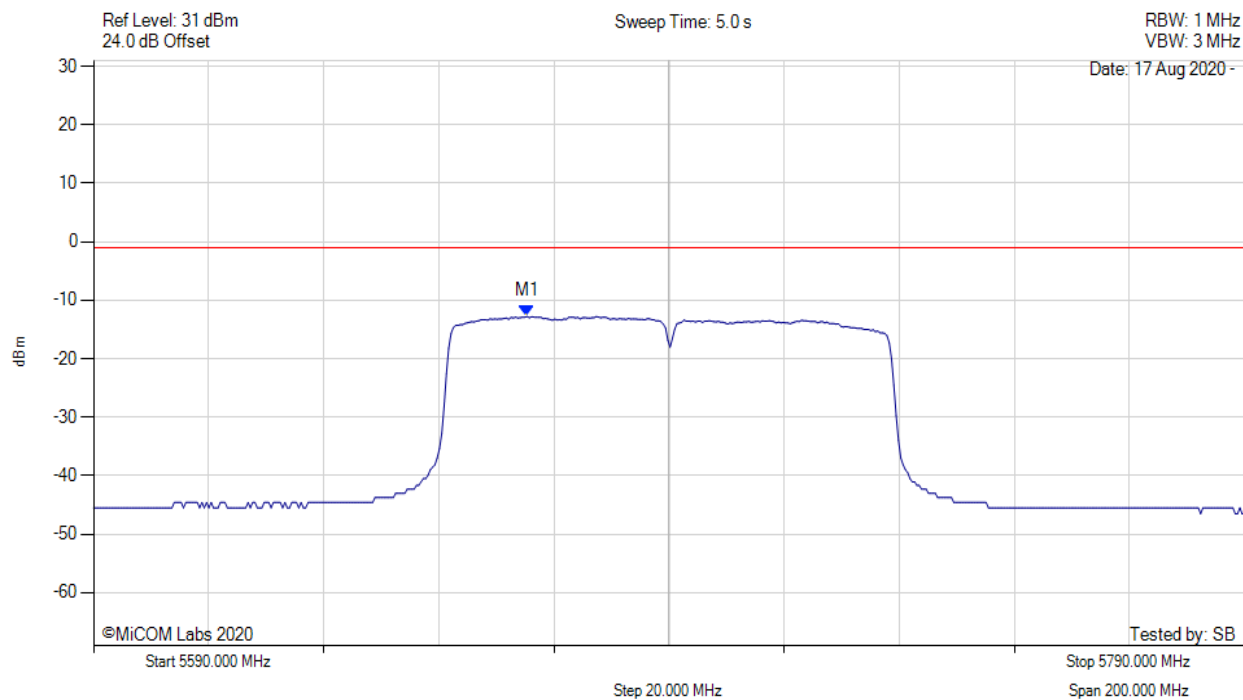
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5664.148 MHz : -14.244 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



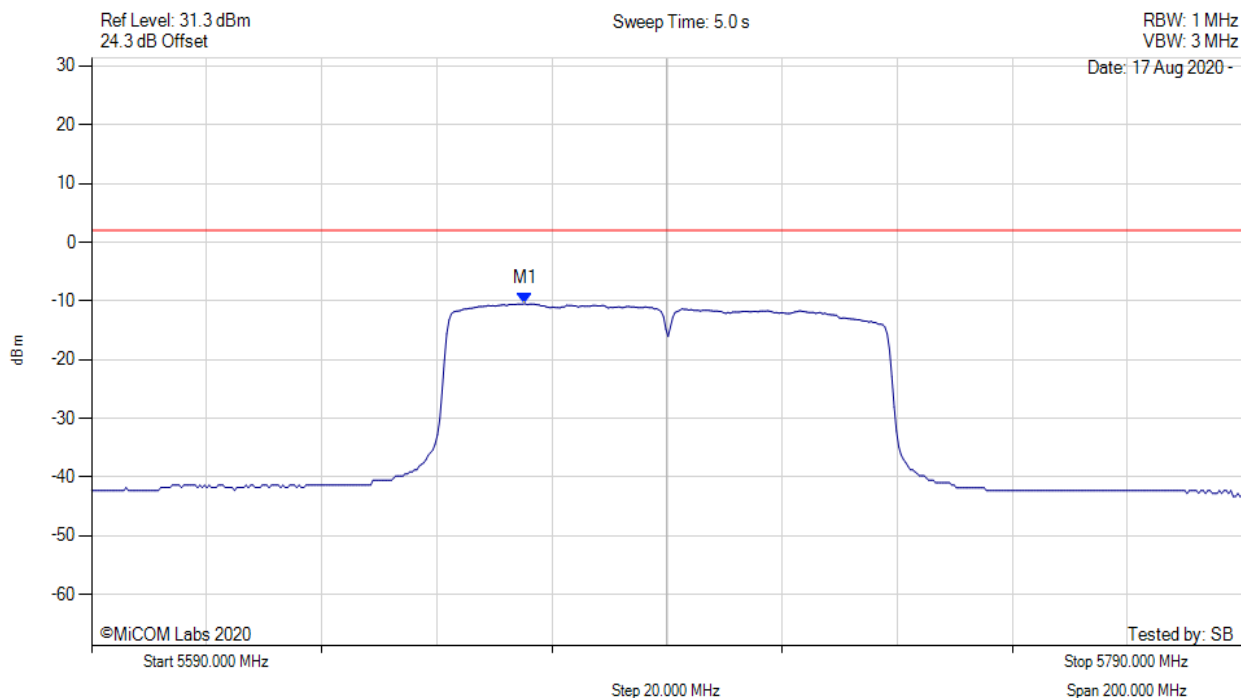
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5665.351 MHz : -12.766 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



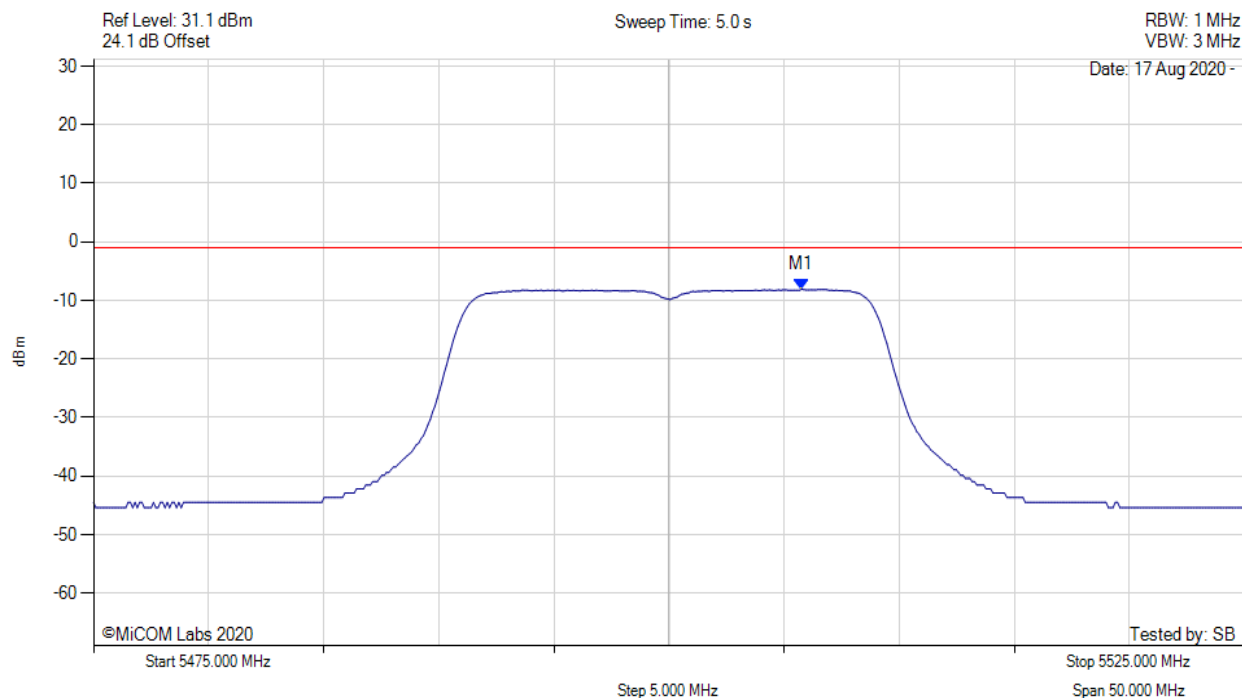
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5665.400 MHz : -10.489 dBm M1 + DCCF : 5665.400 MHz : -9.627 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ 2.0 dBm Margin: -11.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



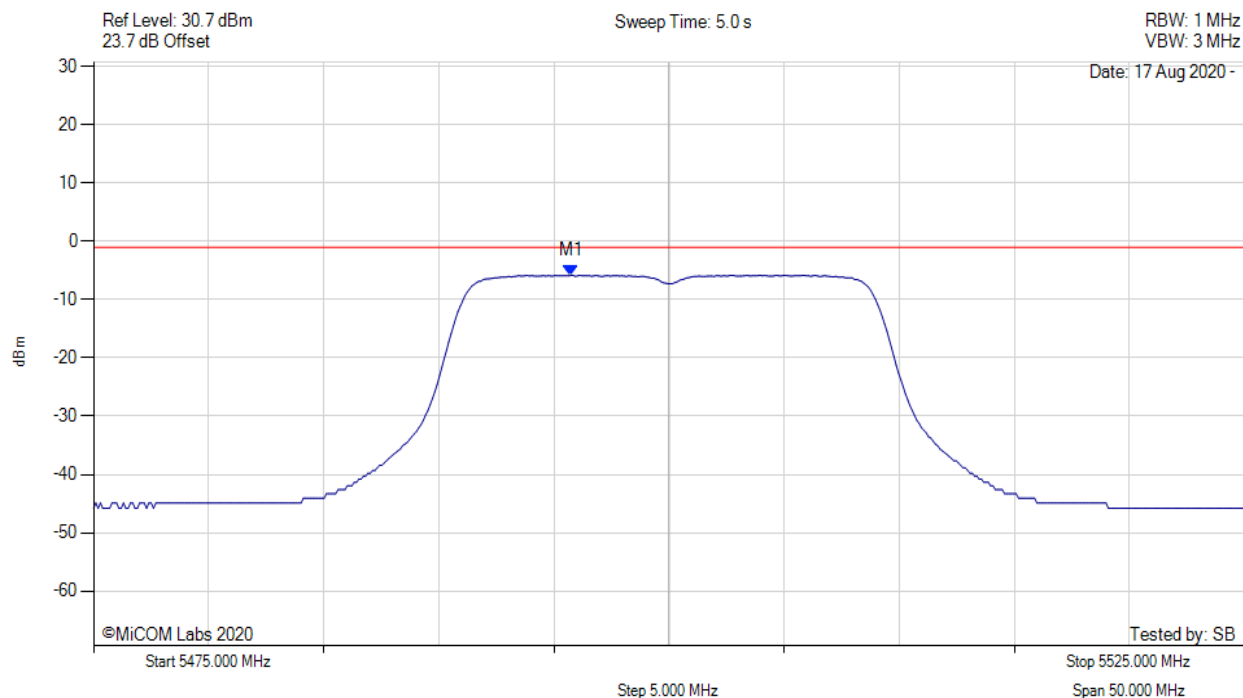
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.762 MHz : -8.088 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



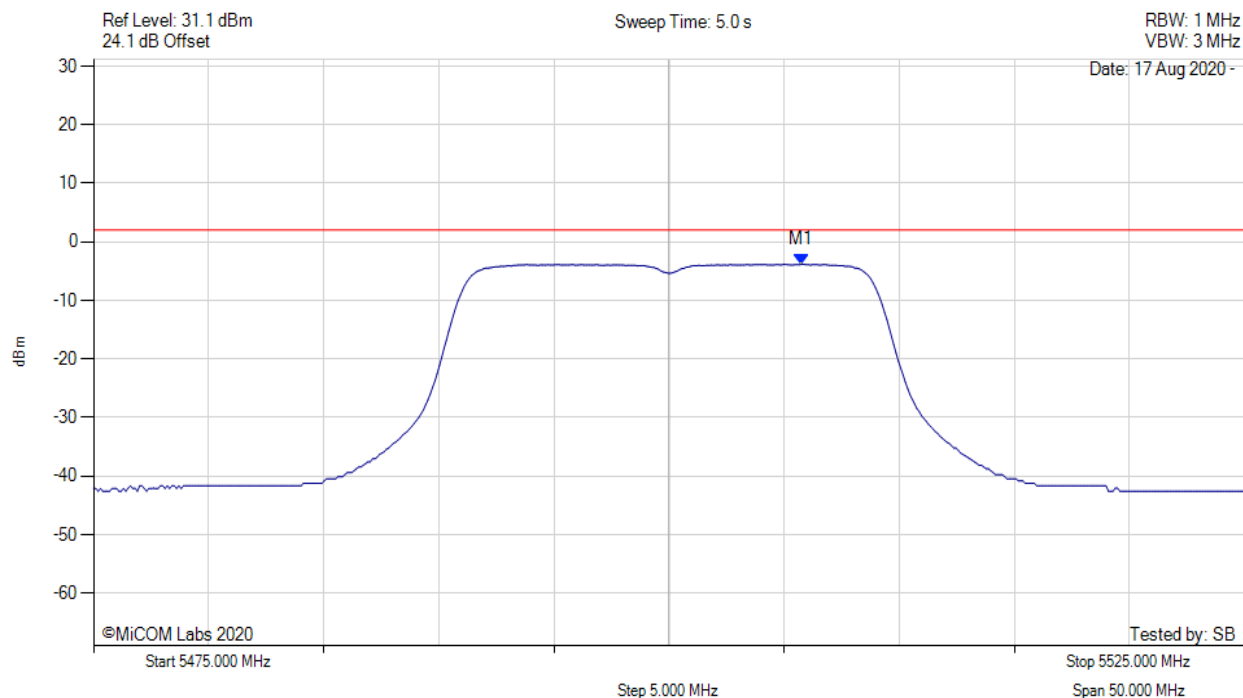
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5495.741 MHz : -5.829 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



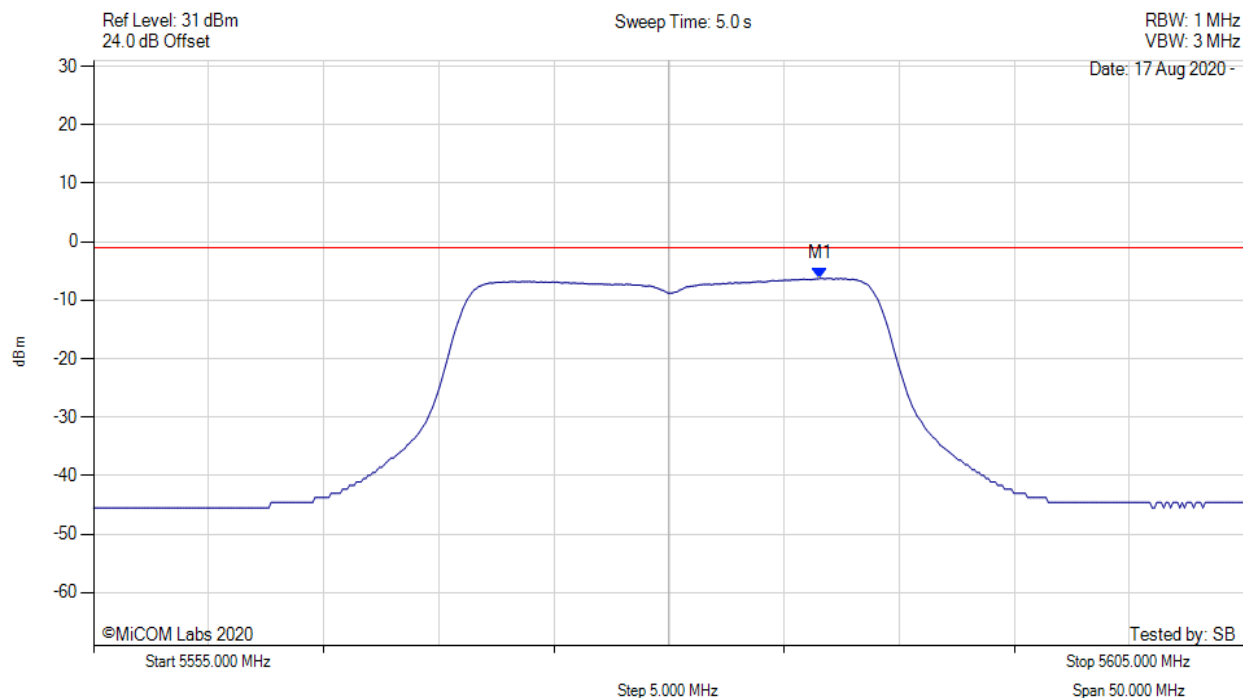
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.800 MHz : -3.827 dBm M1 + DCCF : 5505.800 MHz : -3.739 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -5.7 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



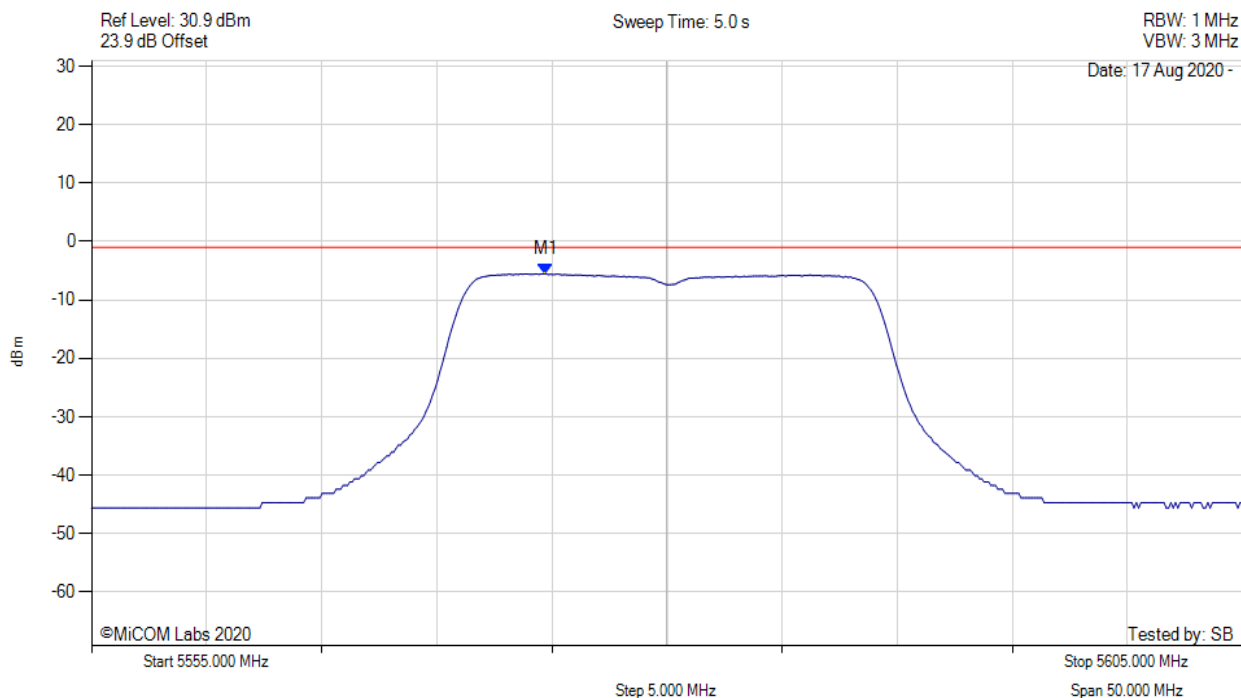
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.563 MHz : -6.257 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



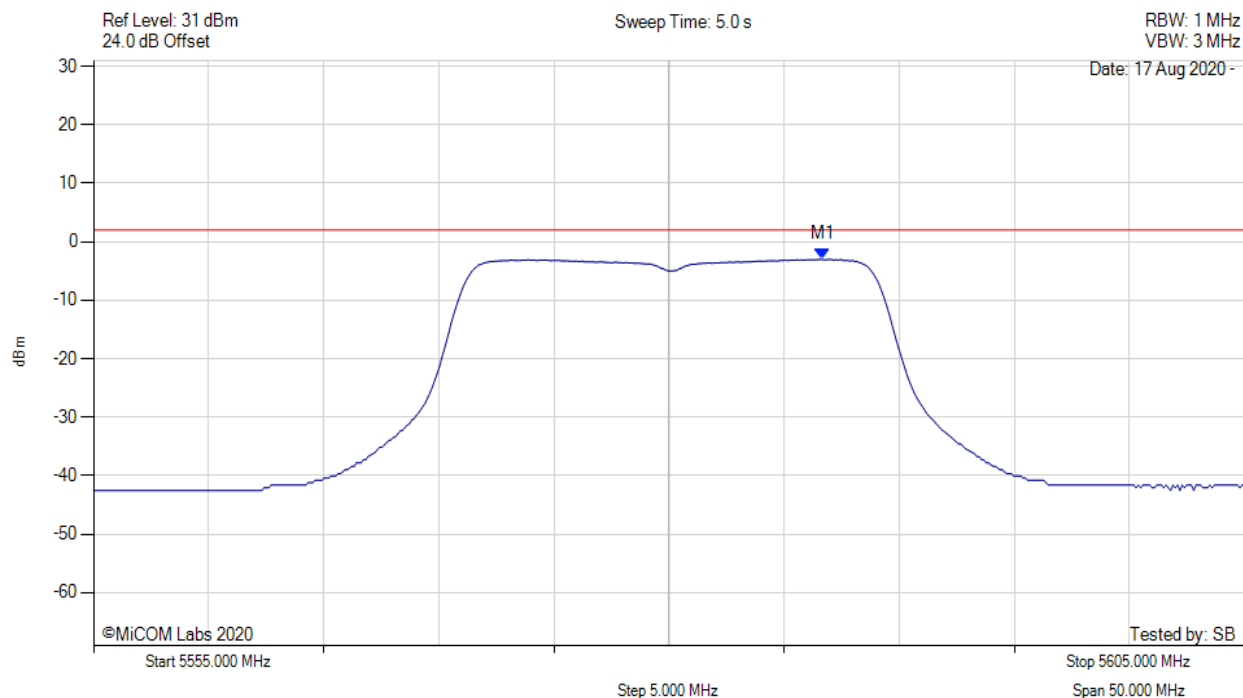
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.739 MHz : -5.504 dBm	Channel Frequency: 5580.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



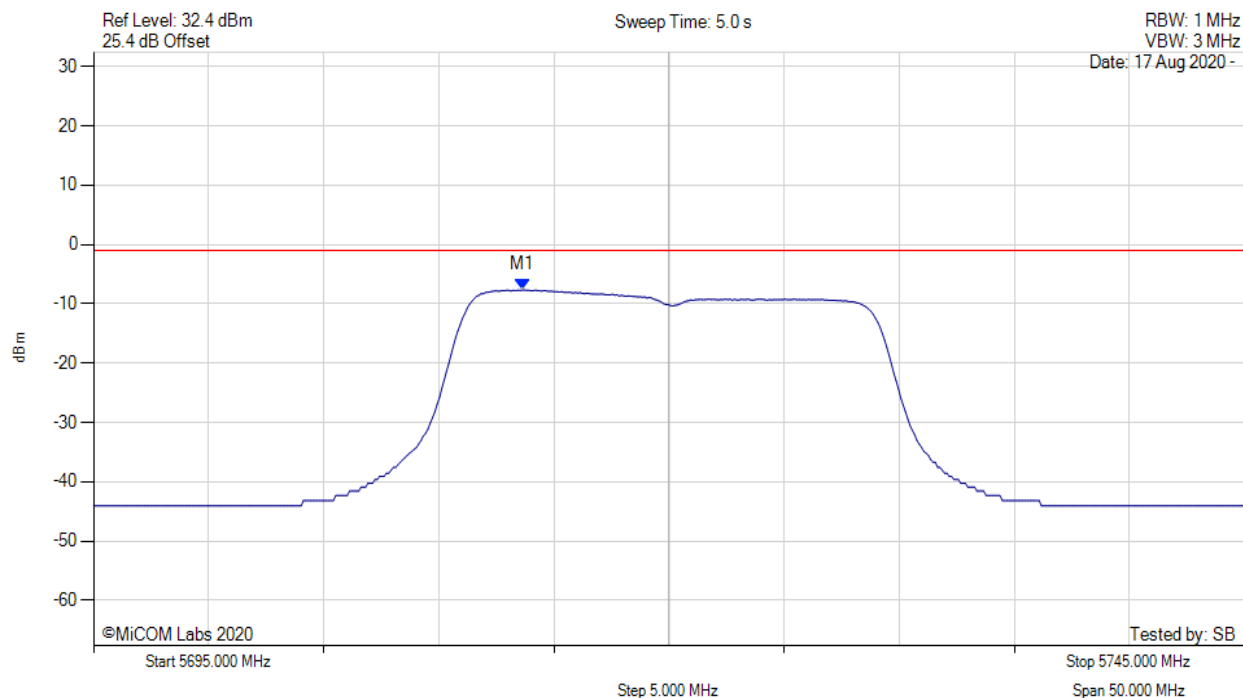
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.700 MHz : -3.010 dBm M1 + DCCF : 5586.700 MHz : -2.922 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -4.9 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



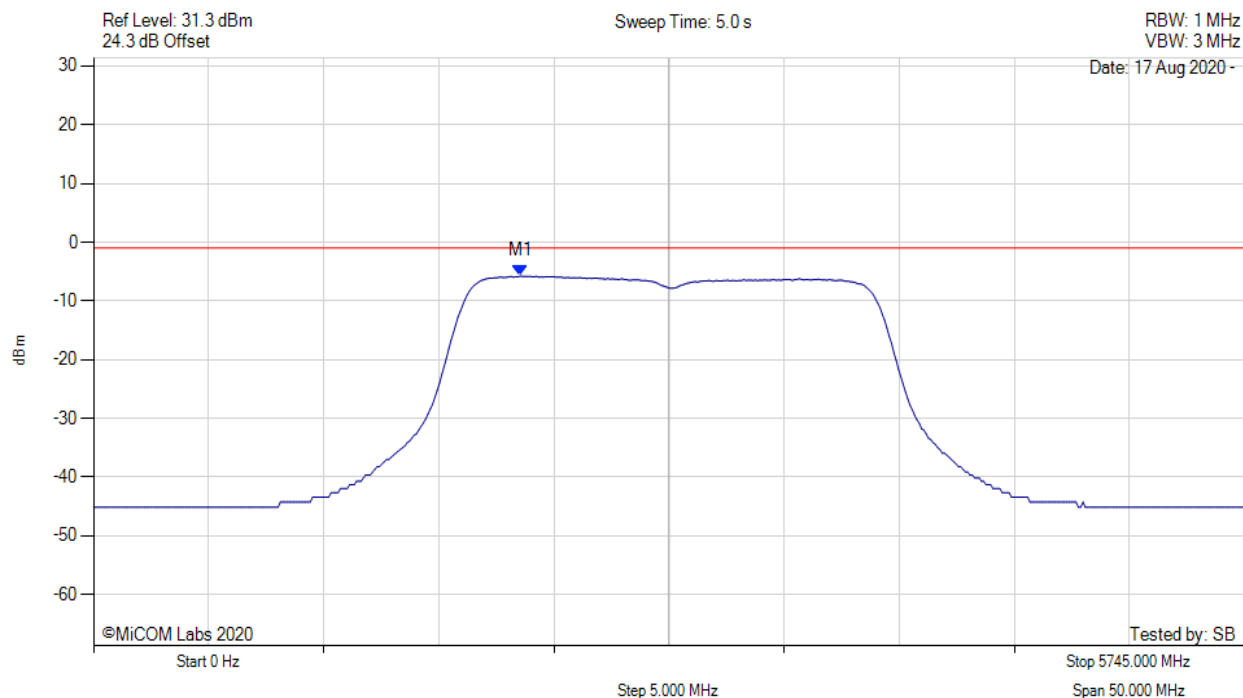
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.637 MHz : -7.675 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



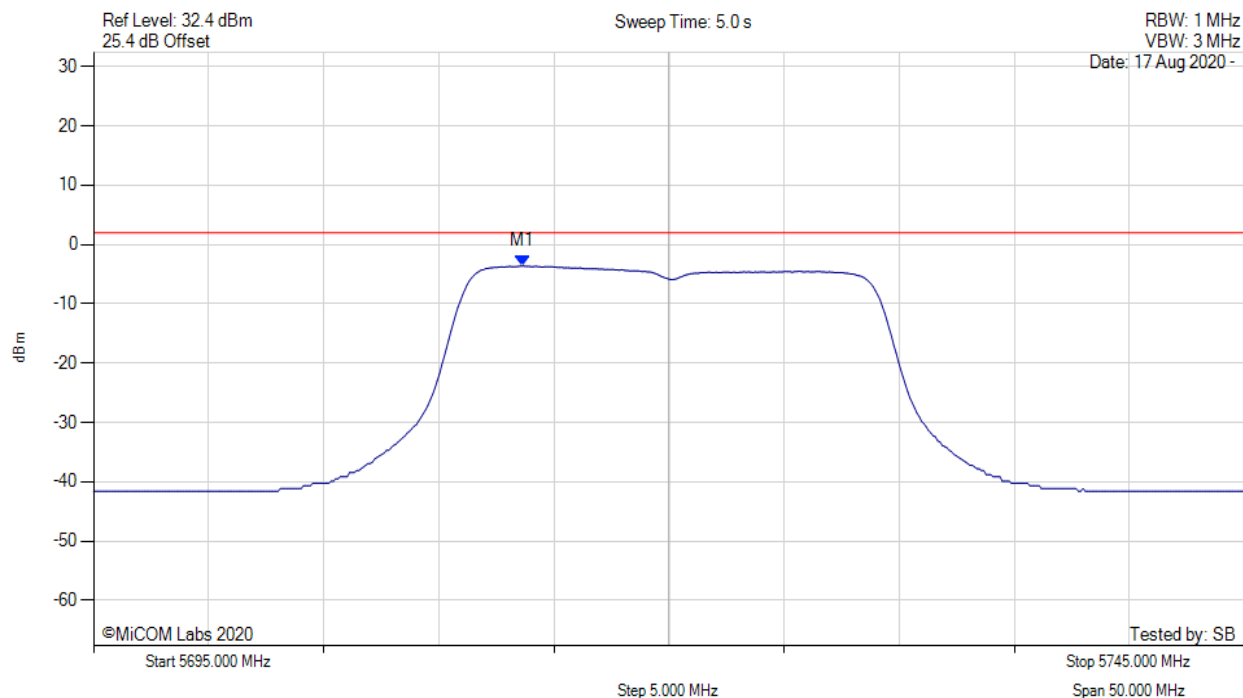
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.537 MHz : -5.780 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



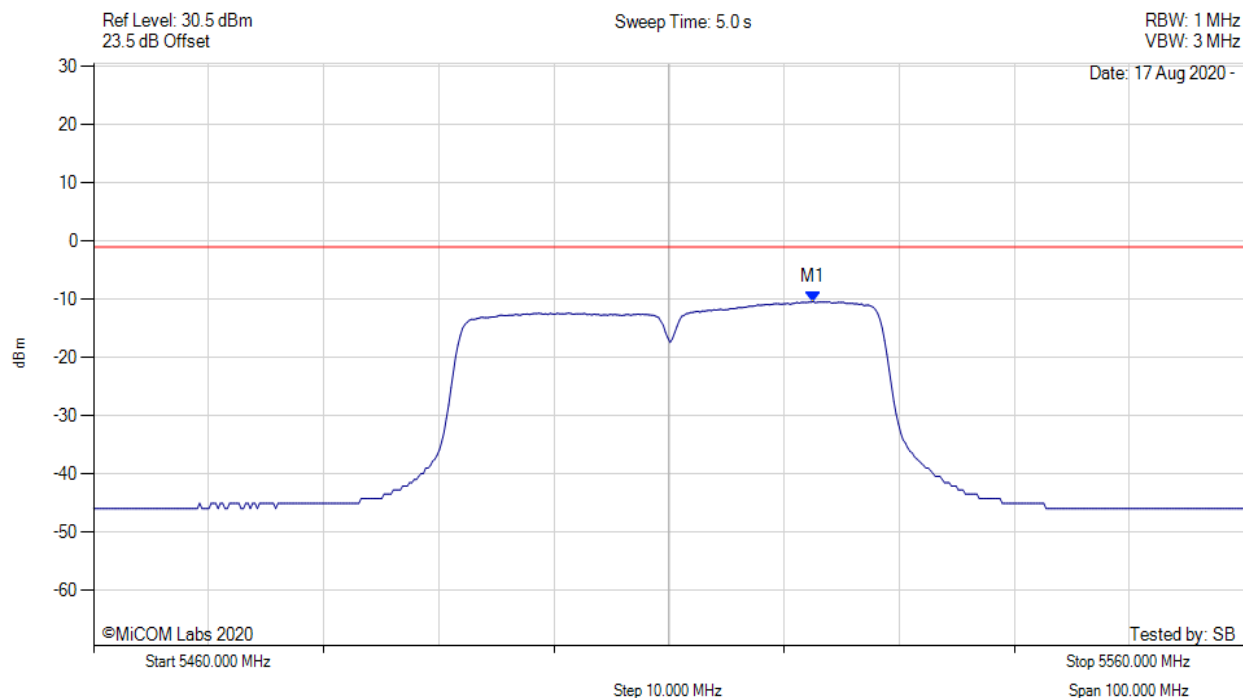
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.600 MHz : -3.640 dBm M1 + DCCF : 5713.600 MHz : -3.552 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 2.0 dBm Margin: -5.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



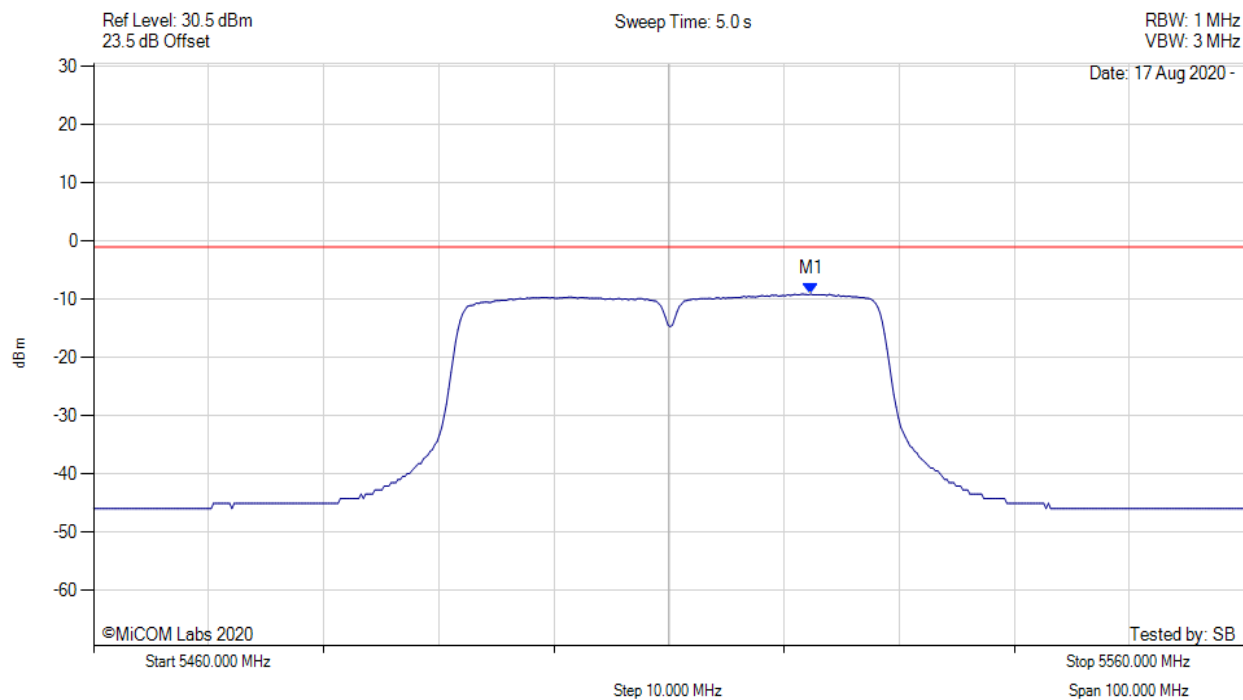
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5522.525 MHz : -10.401 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



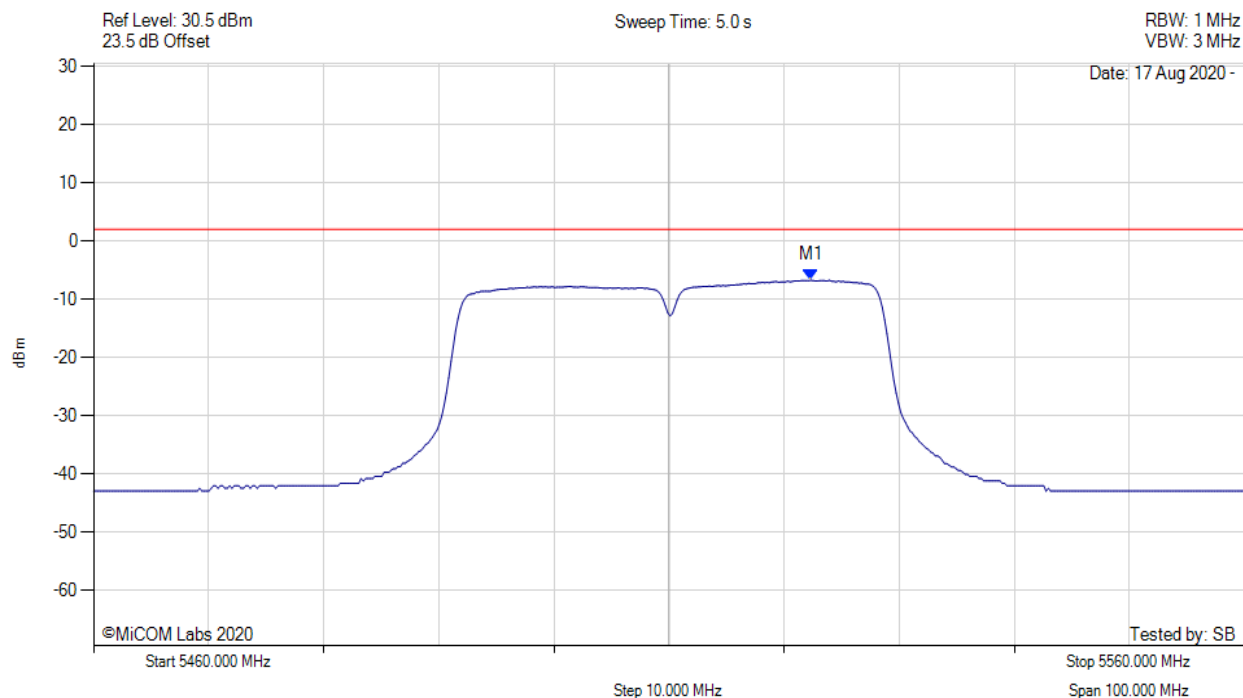
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5522.325 MHz : -9.092 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



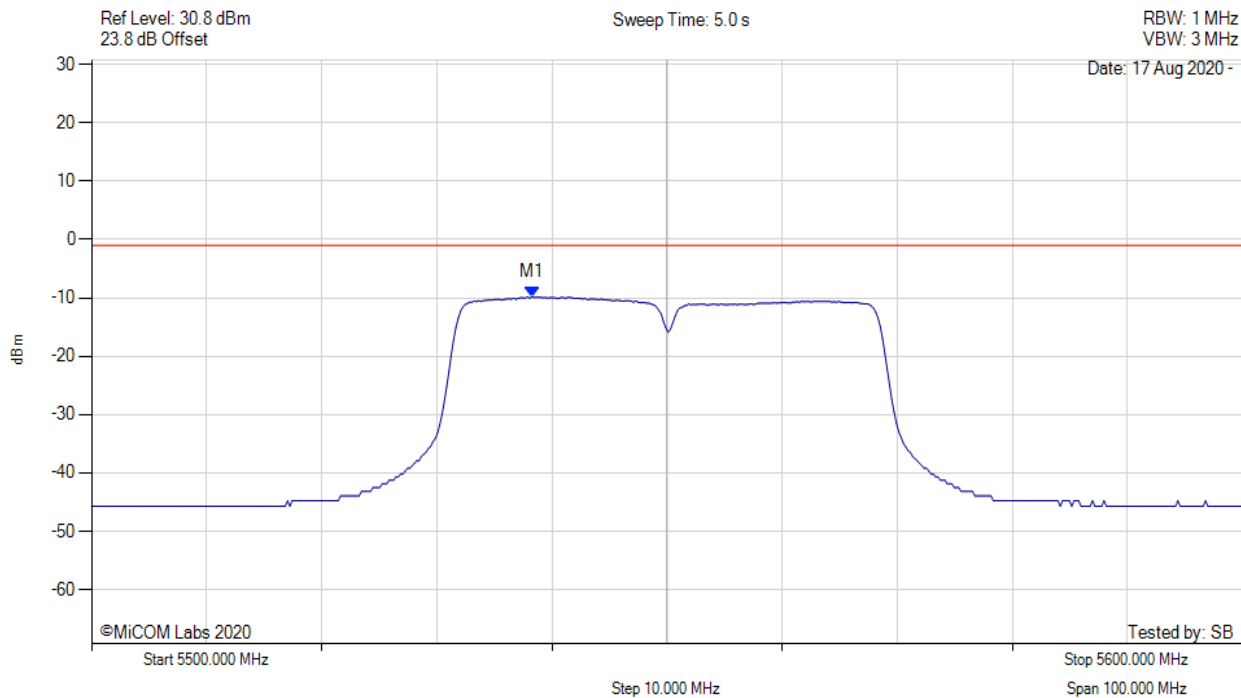
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5522.300 MHz : -6.728 dBm M1 + DCCF : 5522.300 MHz : -6.366 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ 2.0 dBm Margin: -8.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



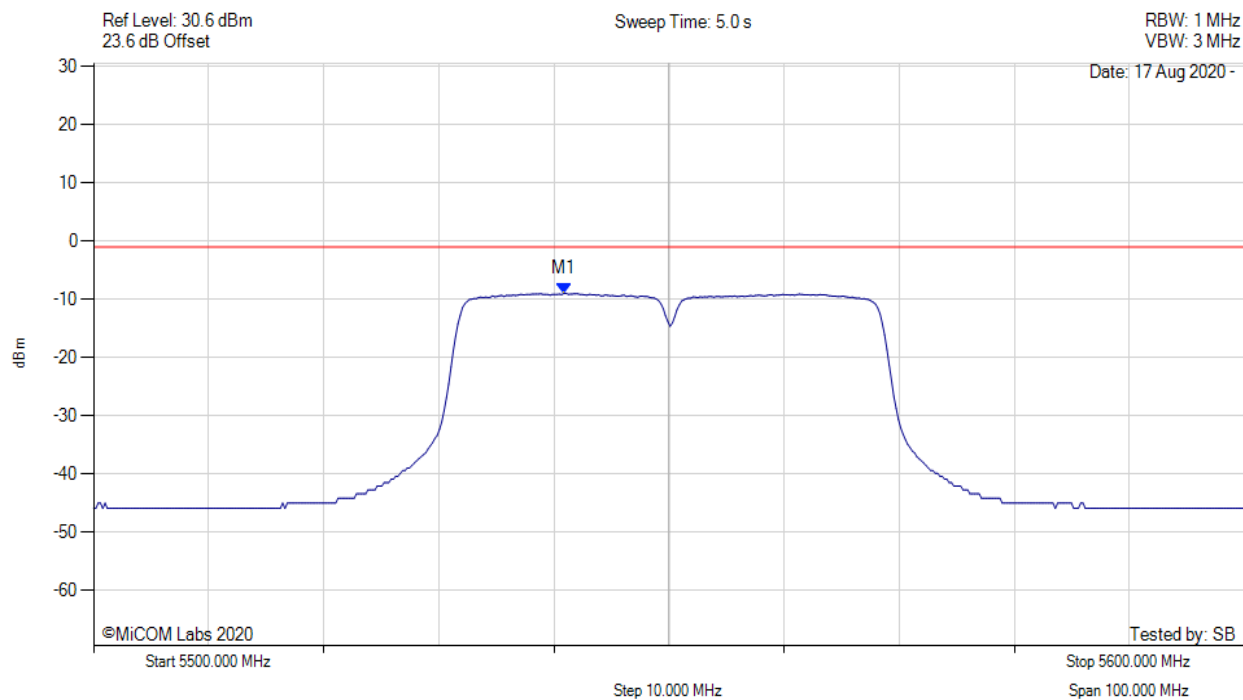
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5538.277 MHz : -9.817 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



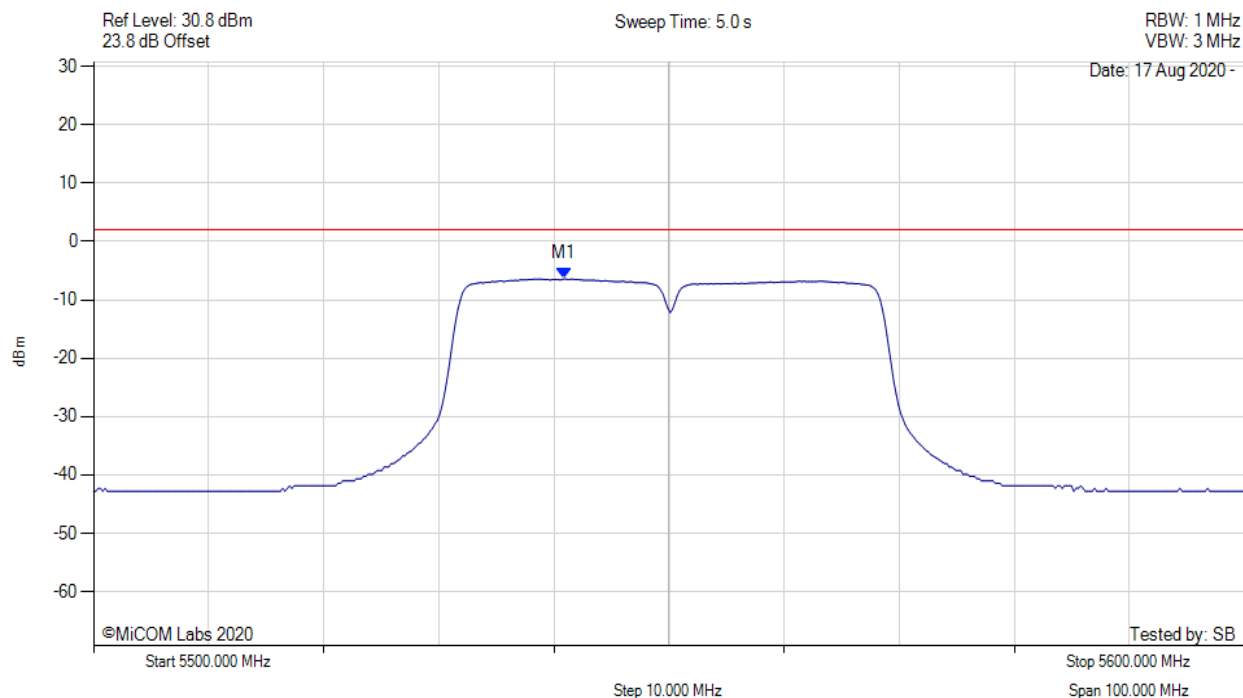
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5540.882 MHz : -8.965 dBm	Channel Frequency: 5550.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



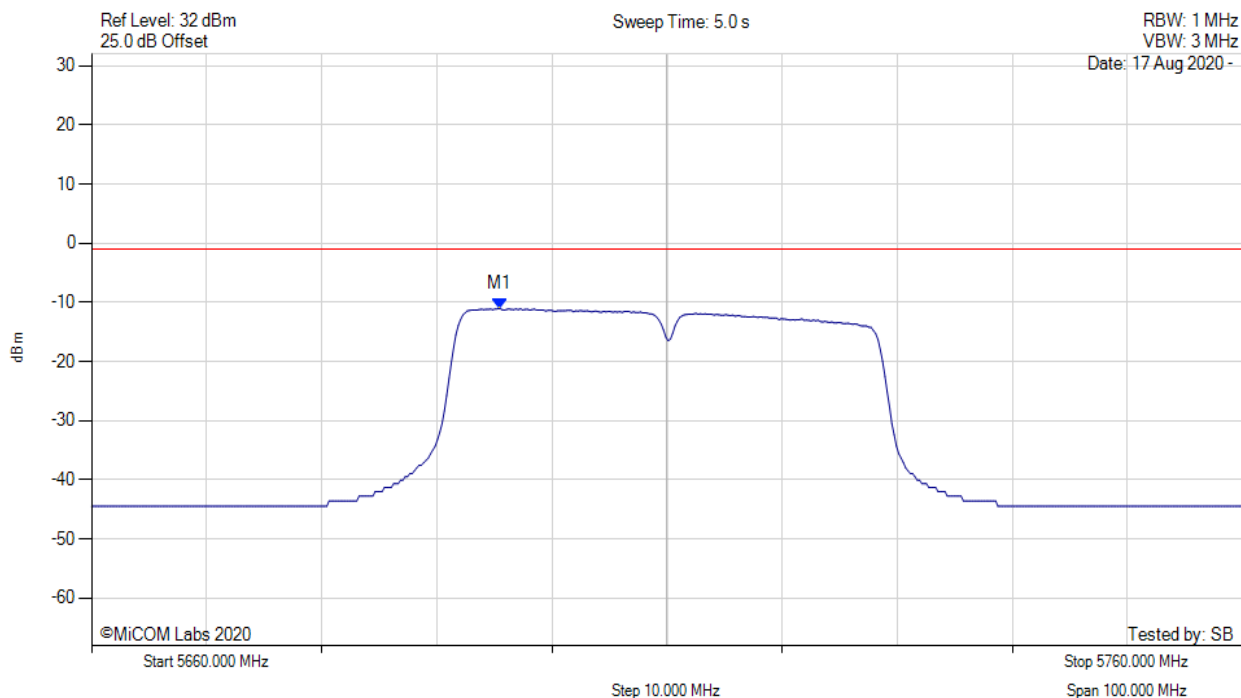
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5540.900 MHz : -6.402 dBm M1 + DCCF : 5540.900 MHz : -6.040 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ 2.0 dBm Margin: -8.1 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



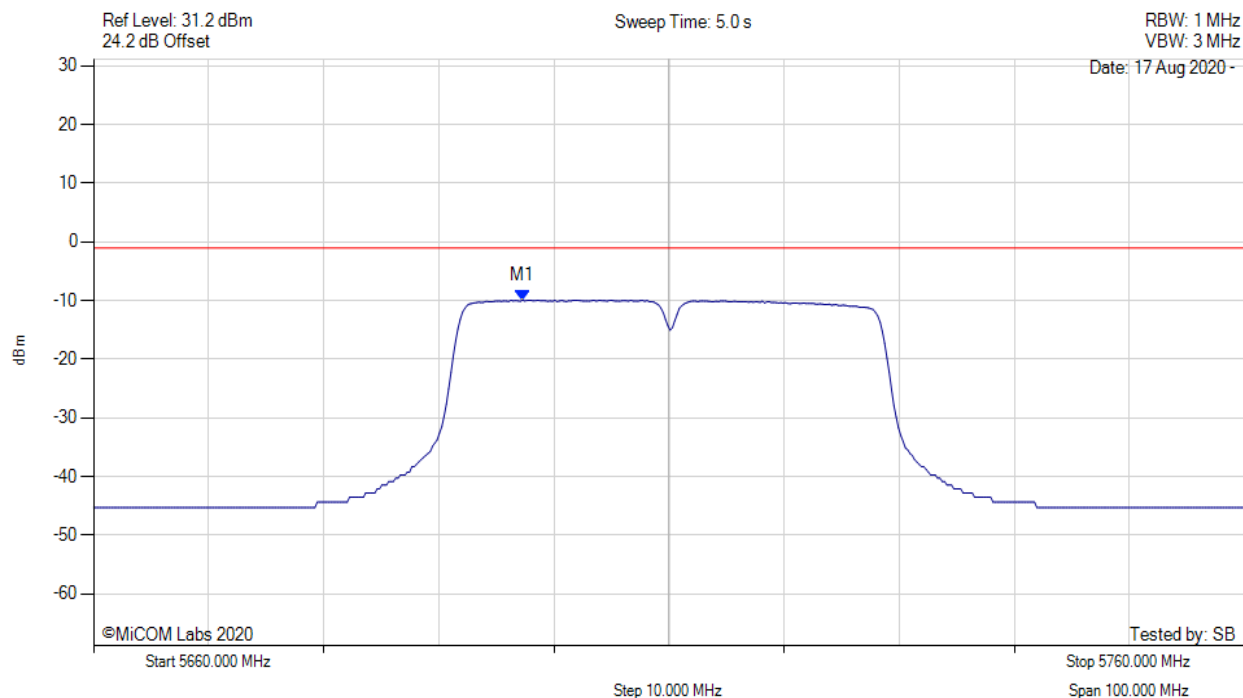
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5695.471 MHz : -11.059 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



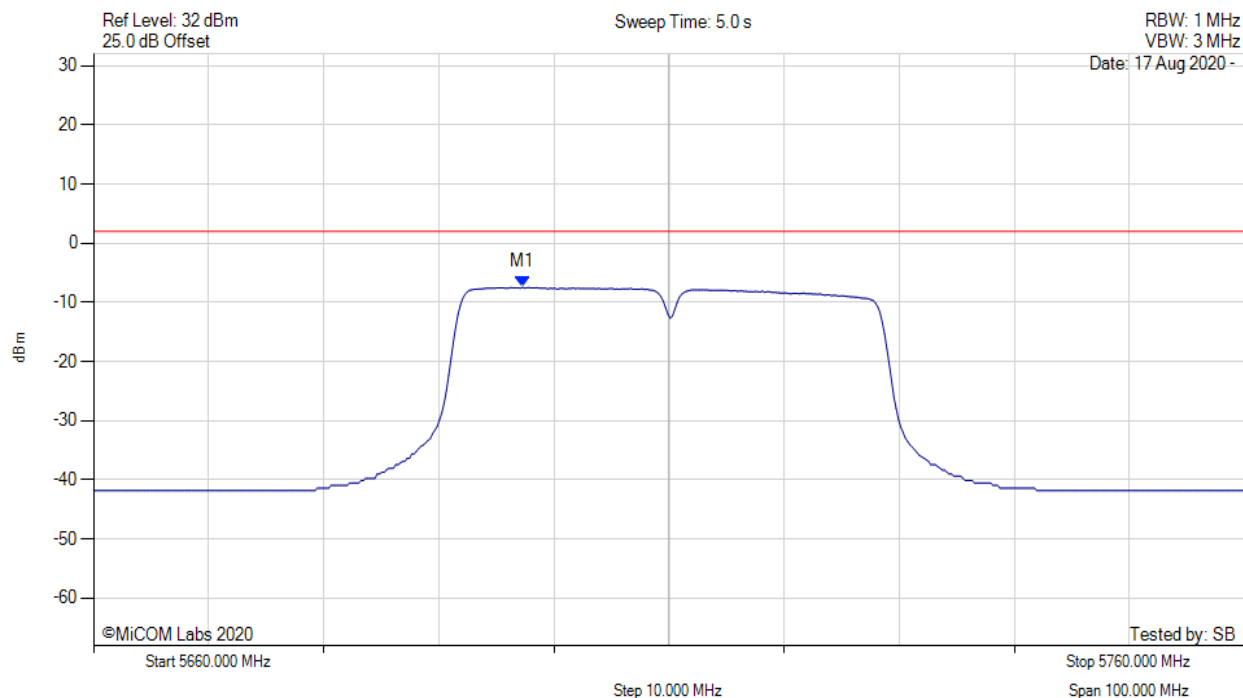
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5697.275 MHz : -9.896 dBm	Limit: ≤ -1.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5697.300 MHz : -7.446 dBm M1 + DCCF : 5697.300 MHz : -7.084 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ 2.0 dBm Margin: -9.1 dB

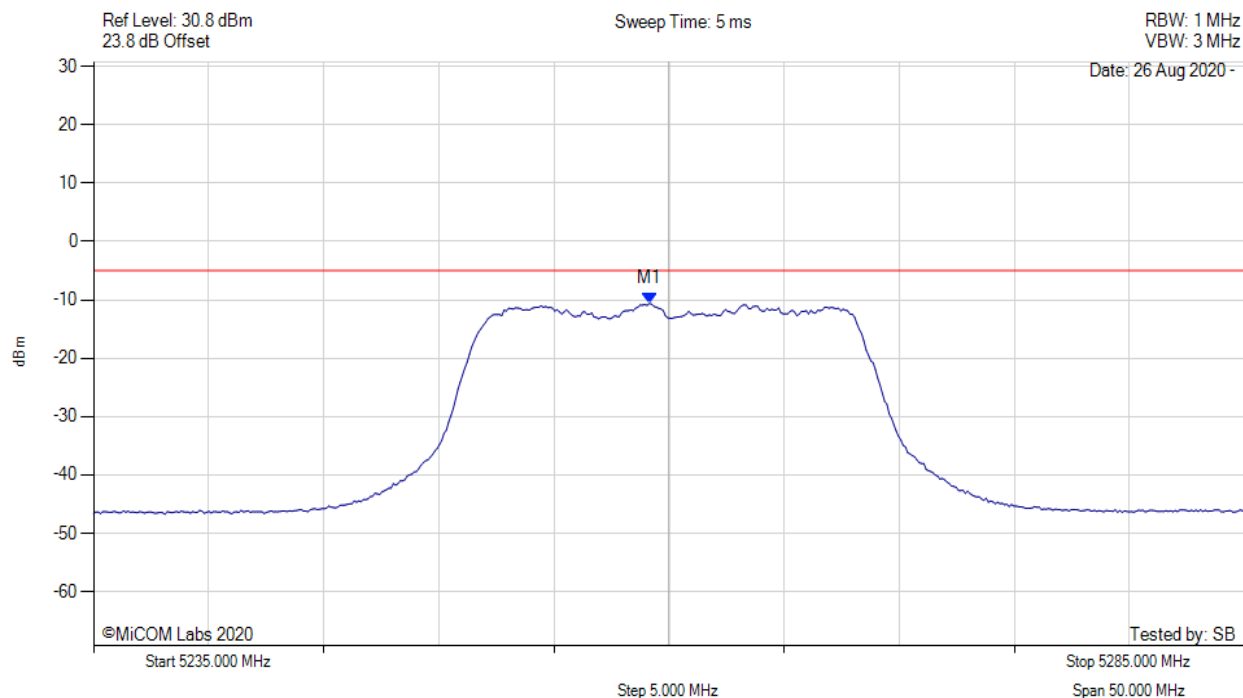
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19 dBi Antenna (For ISSED RSS 247 EIRP Limits)



POWER SPECTRAL DENSITY

Variant: 802.11a, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



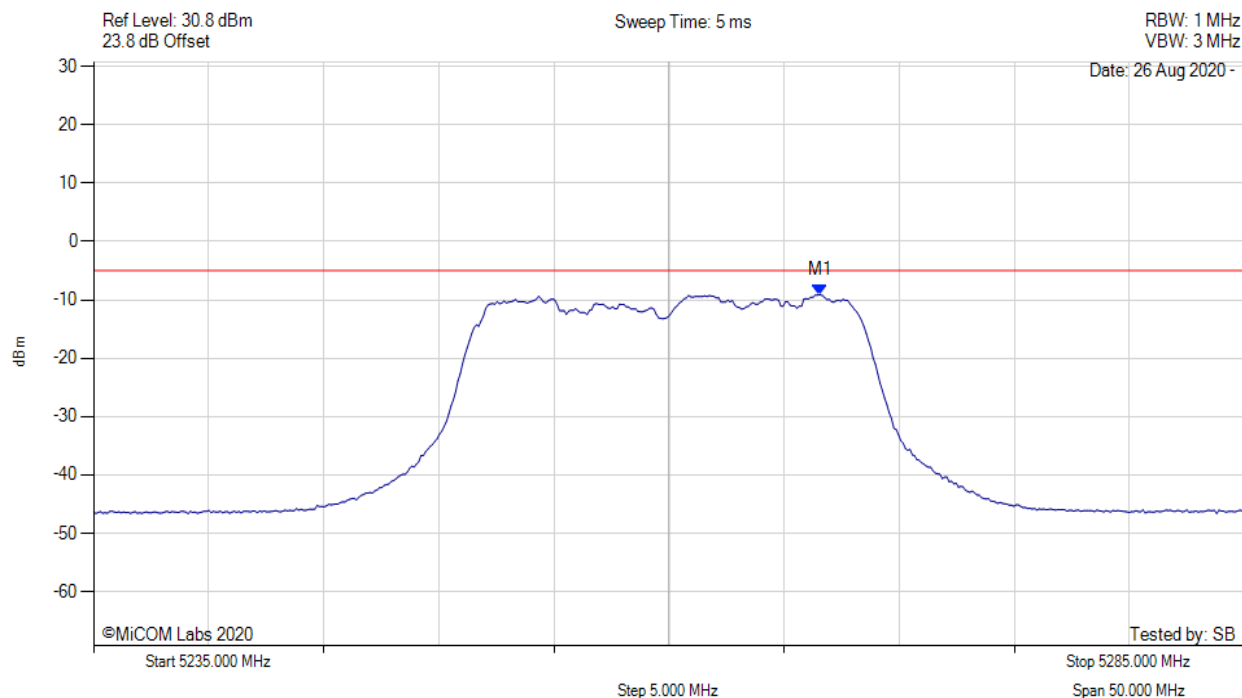
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5259.148 MHz : -10.615 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



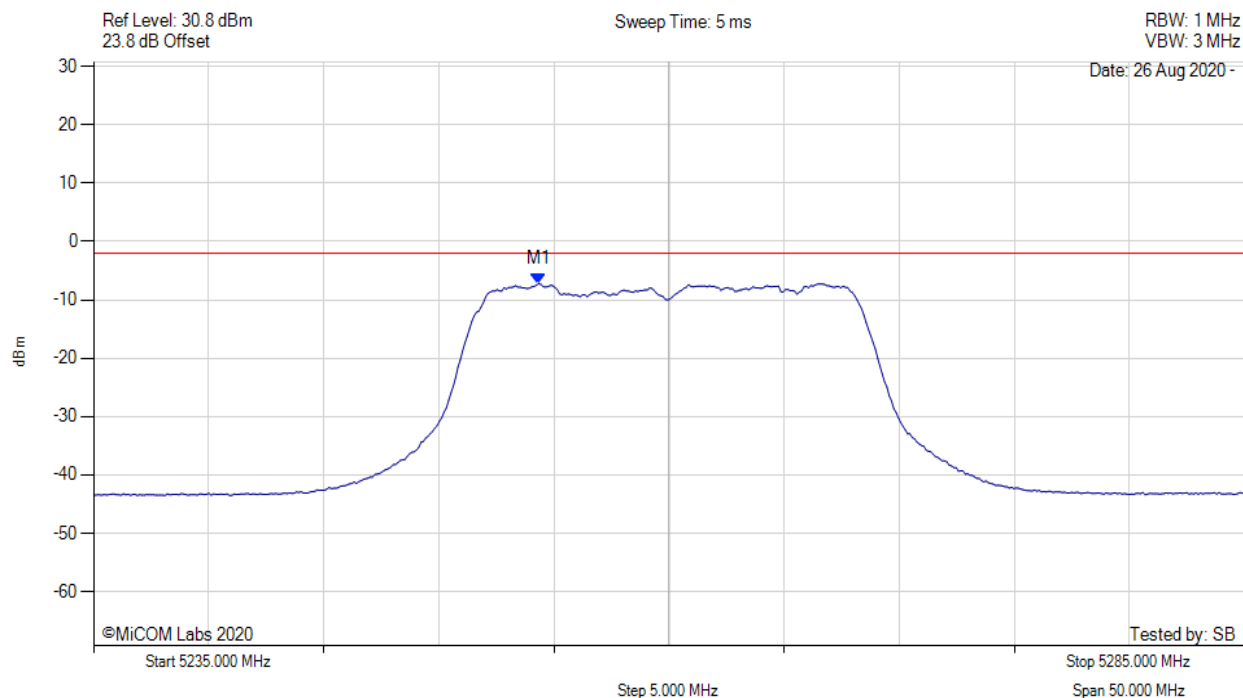
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.563 MHz : -9.128 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



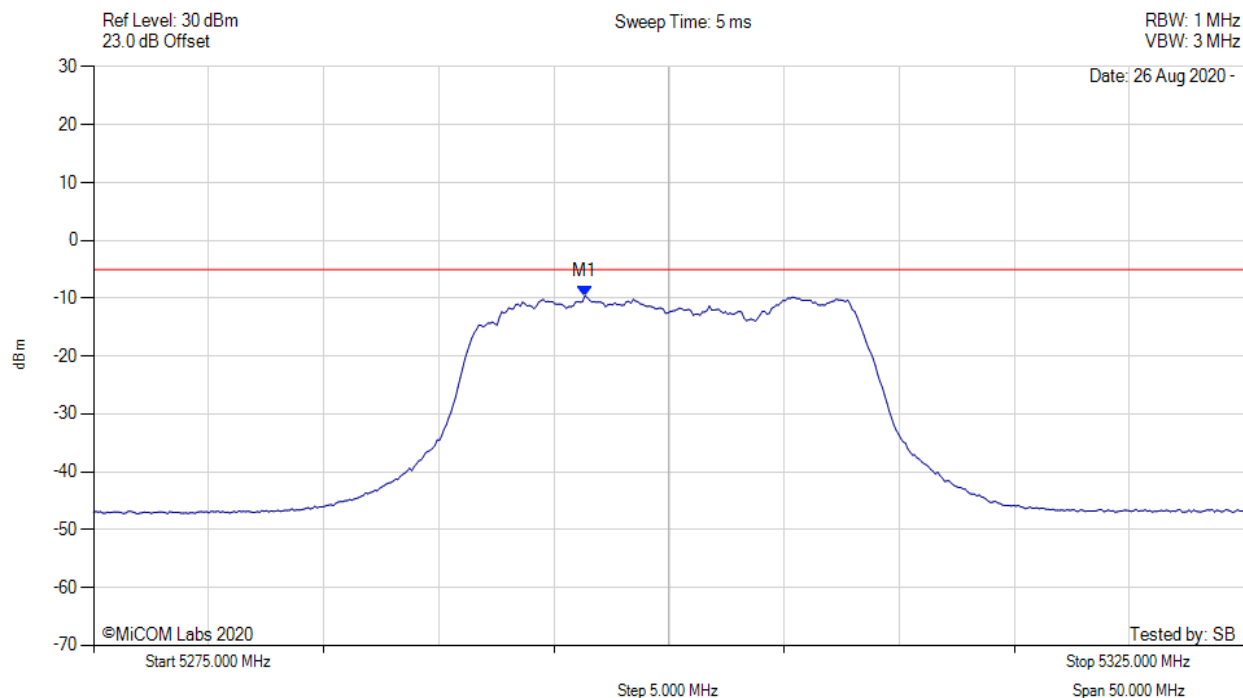
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5254.300 MHz : -7.229 dBm M1 + DCCF : 5254.300 MHz : -7.185 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -5.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



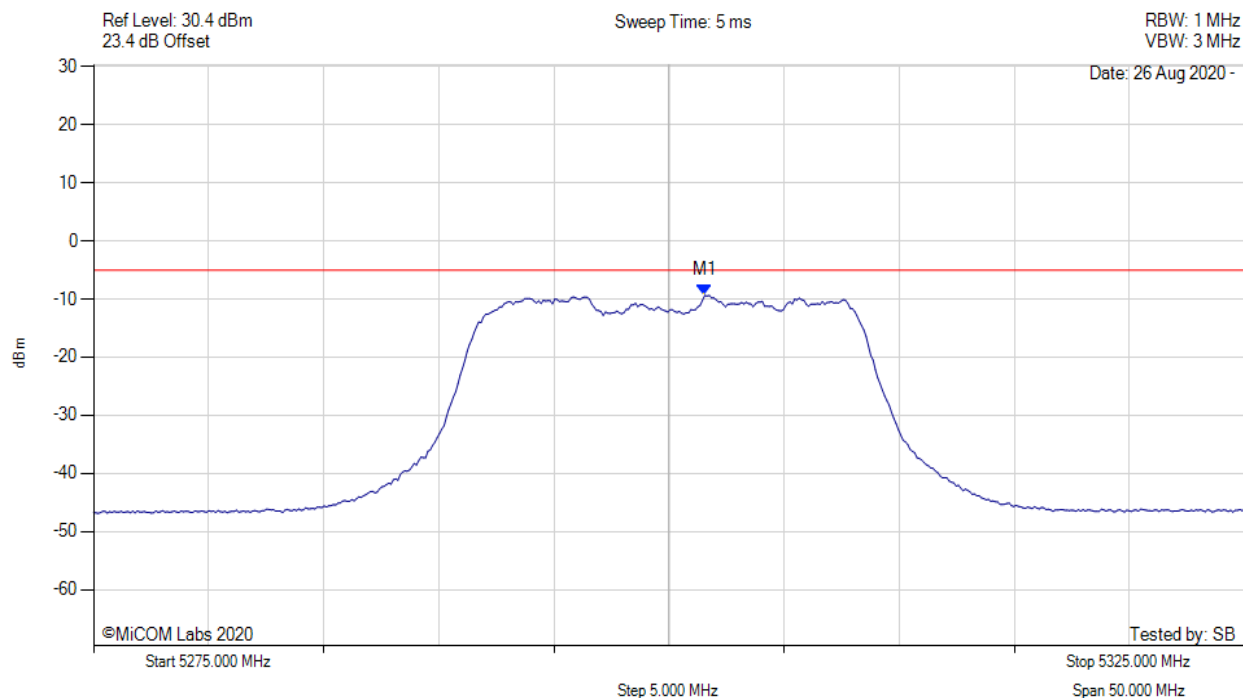
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.343 MHz : -9.594 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



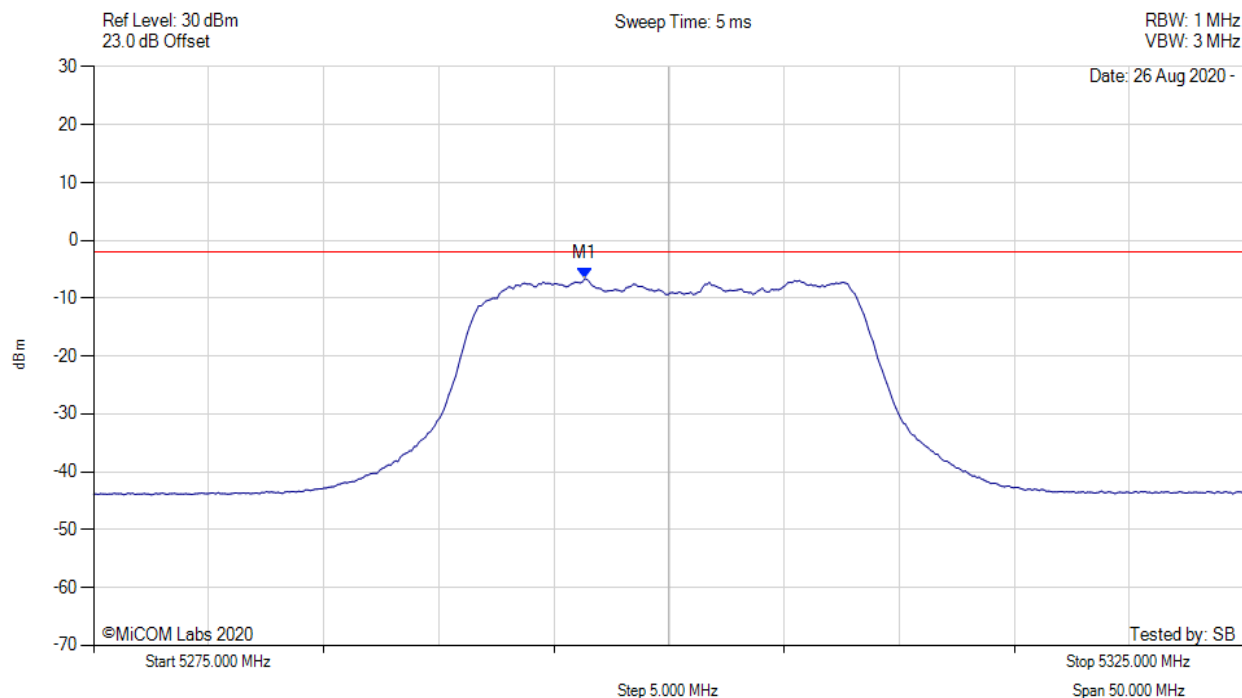
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5301.553 MHz : -9.376 dBm	Channel Frequency: 5300.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



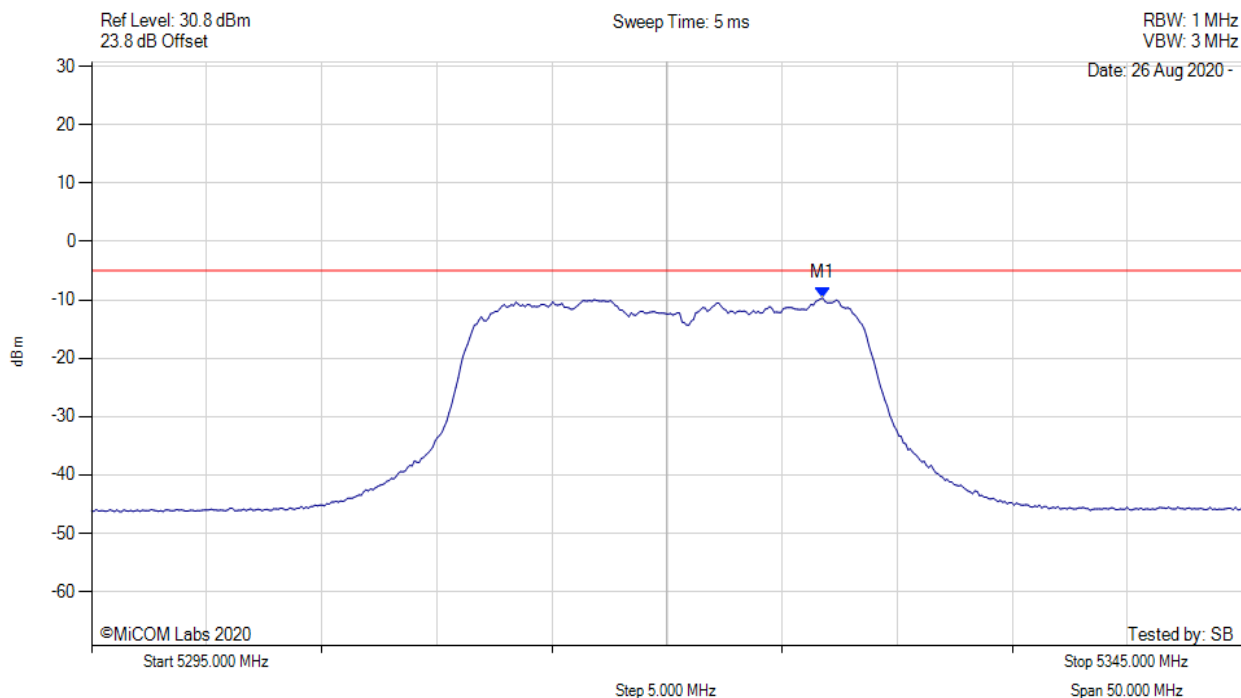
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.300 MHz : -6.610 dBm M1 + DCCF : 5296.300 MHz : -6.566 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -4.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



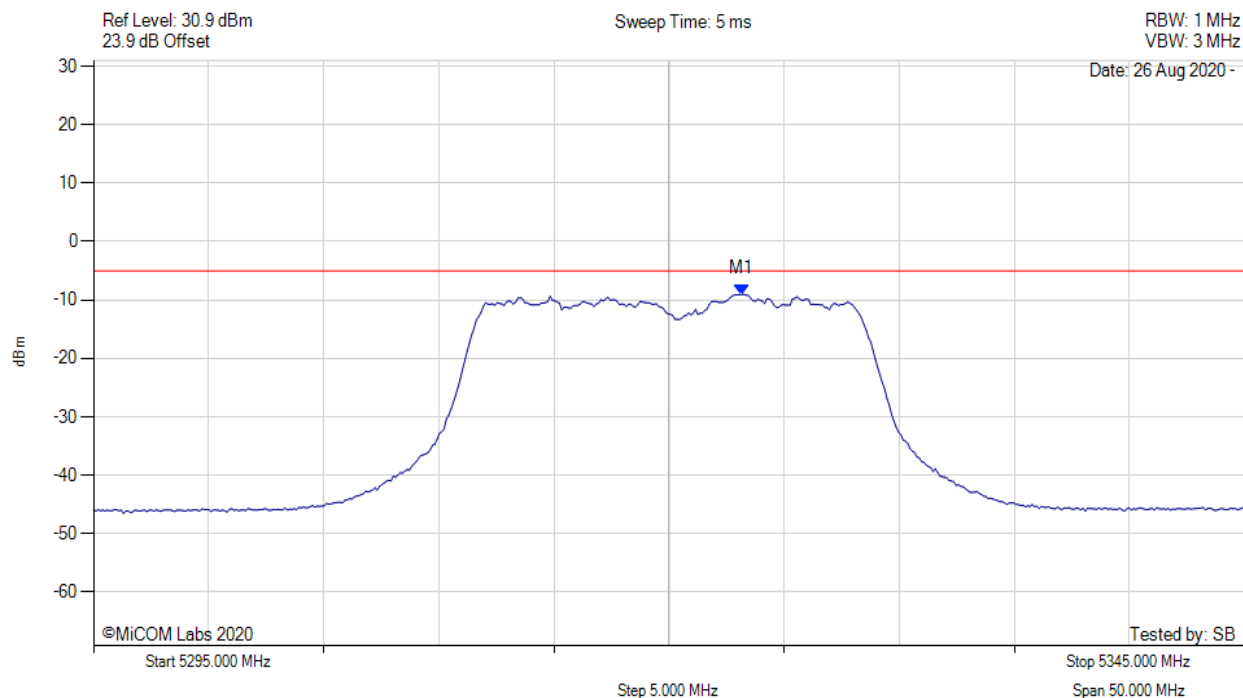
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5326.764 MHz : -9.702 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



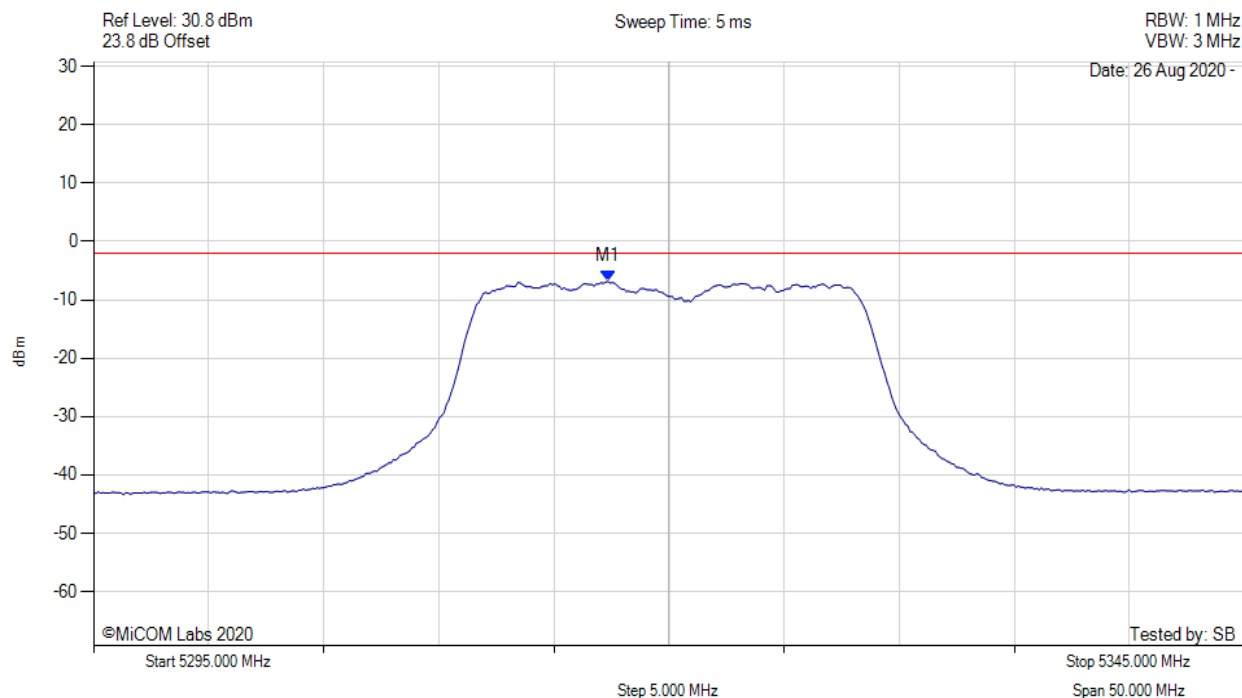
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5323.156 MHz : -9.020 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



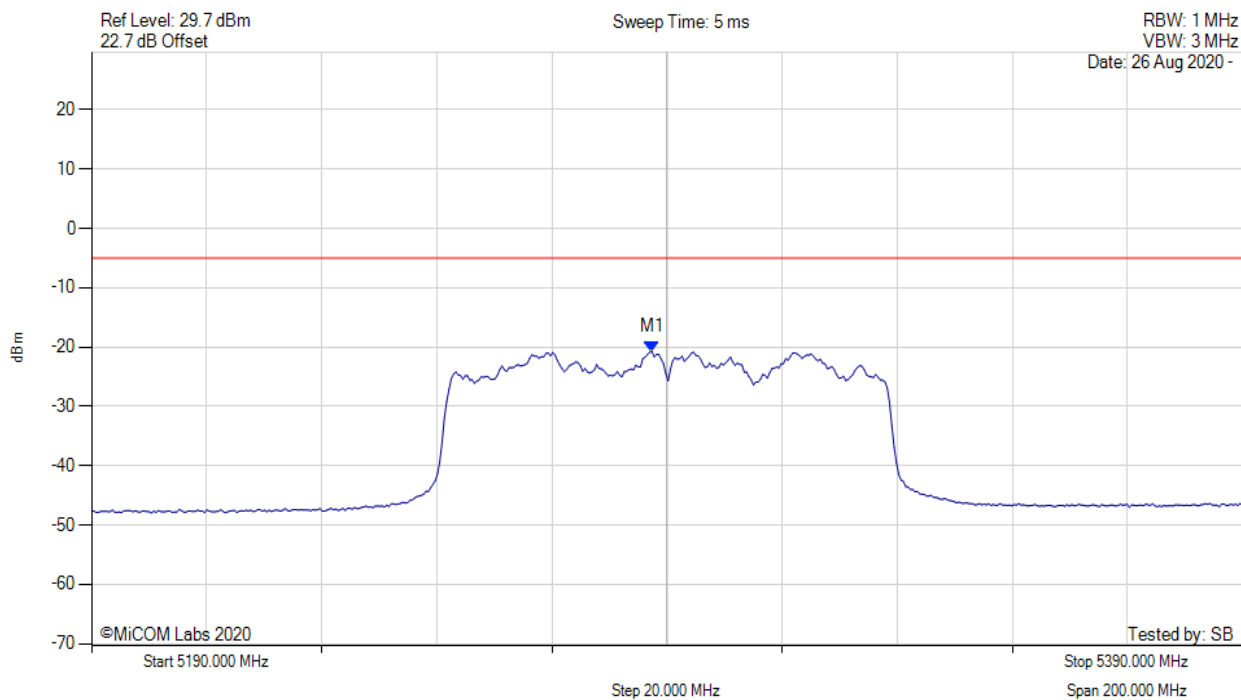
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.300 MHz : -6.851 dBm M1 + DCCF : 5317.300 MHz : -6.807 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -4.8 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



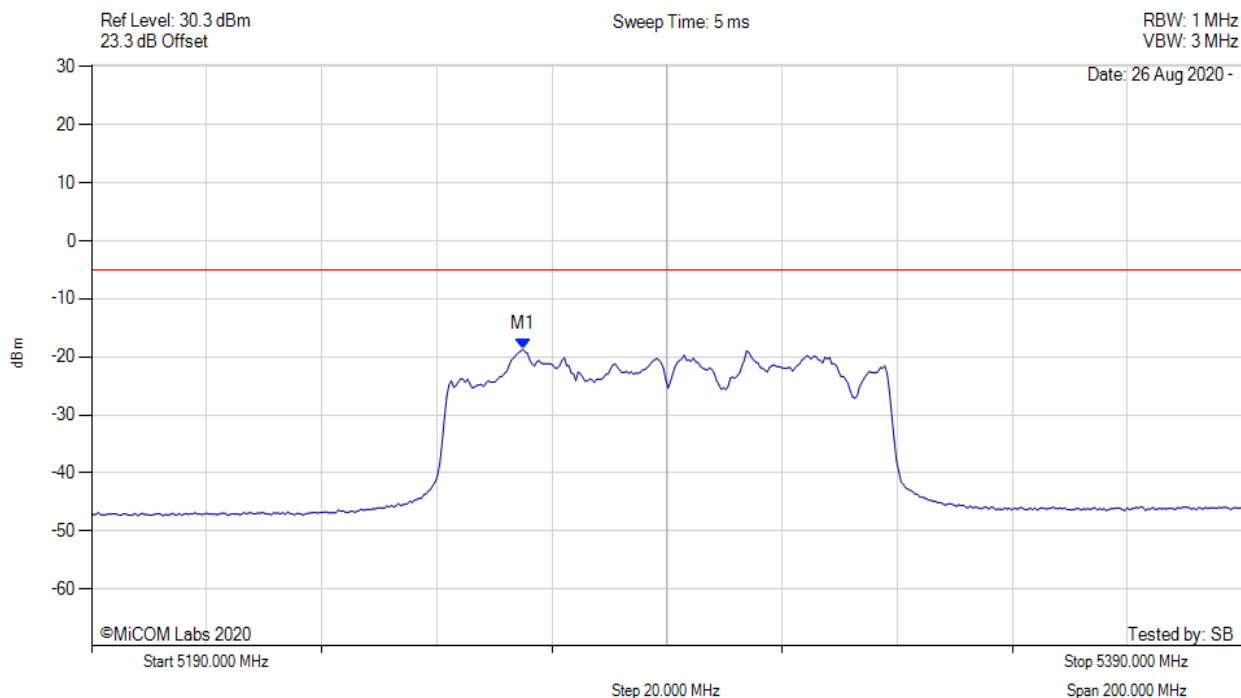
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5287.395 MHz : -20.743 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



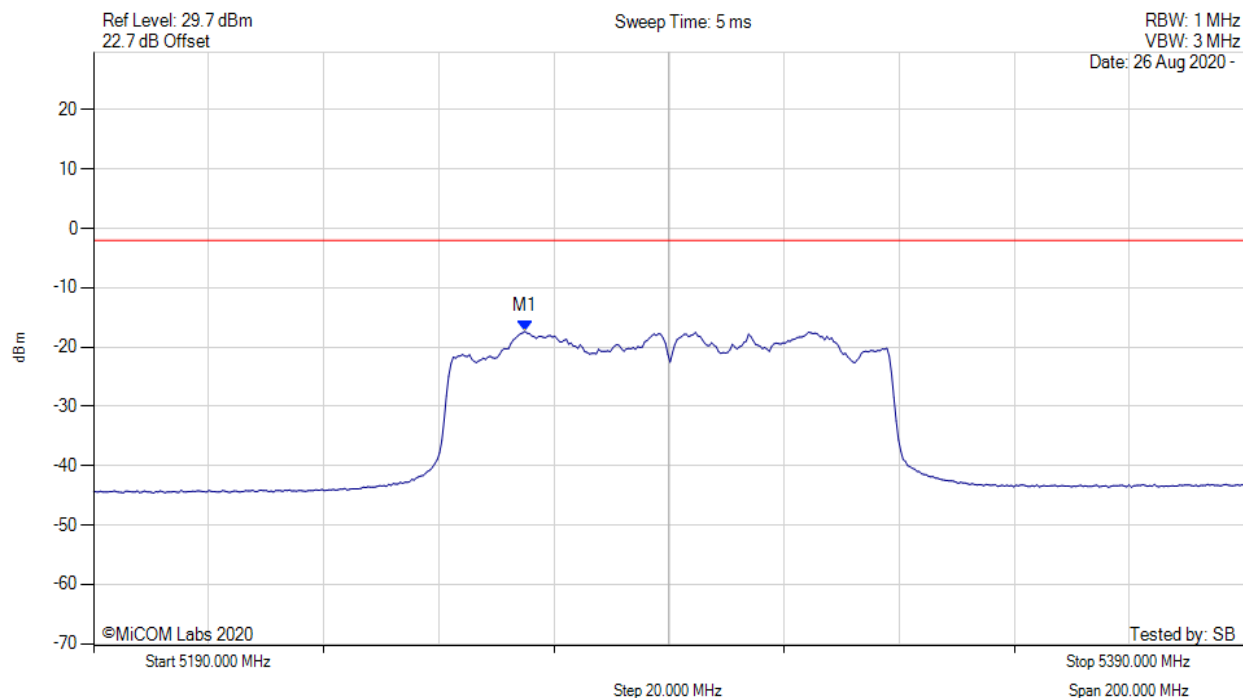
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5264.950 MHz : -18.703 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5290.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



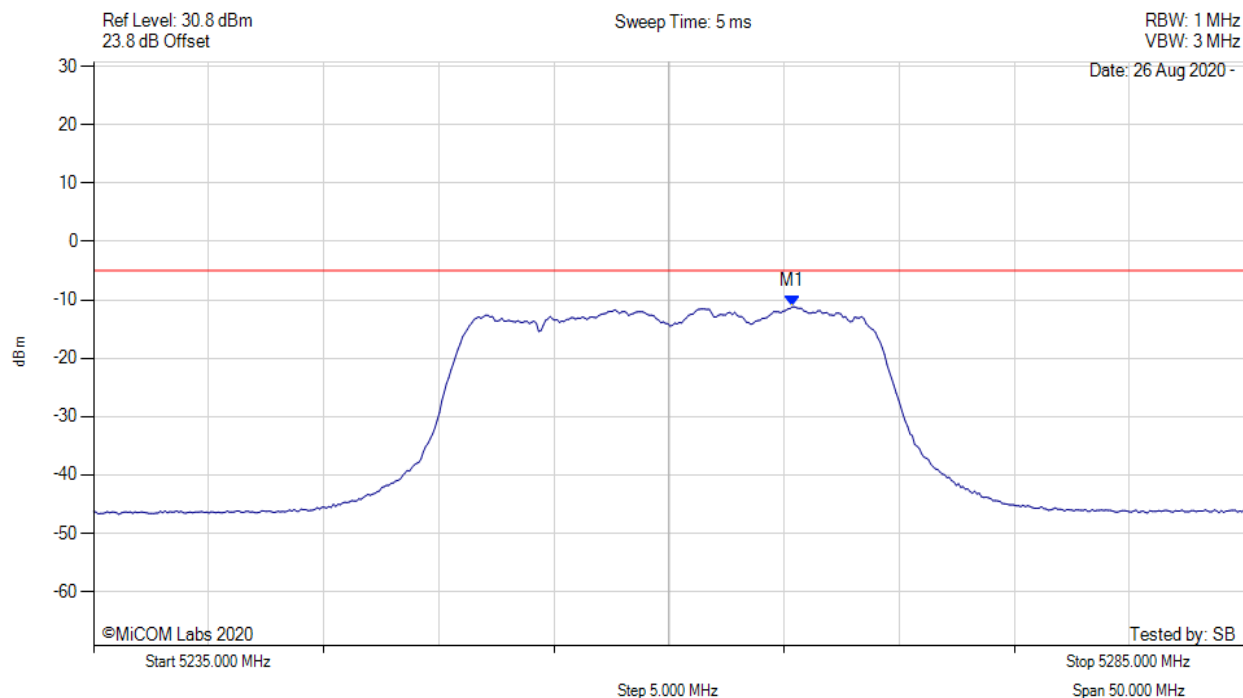
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5264.900 MHz : -17.353 dBm M1 + DCCF : 5264.900 MHz : -16.491 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ -2.0 dBm Margin: -14.5 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



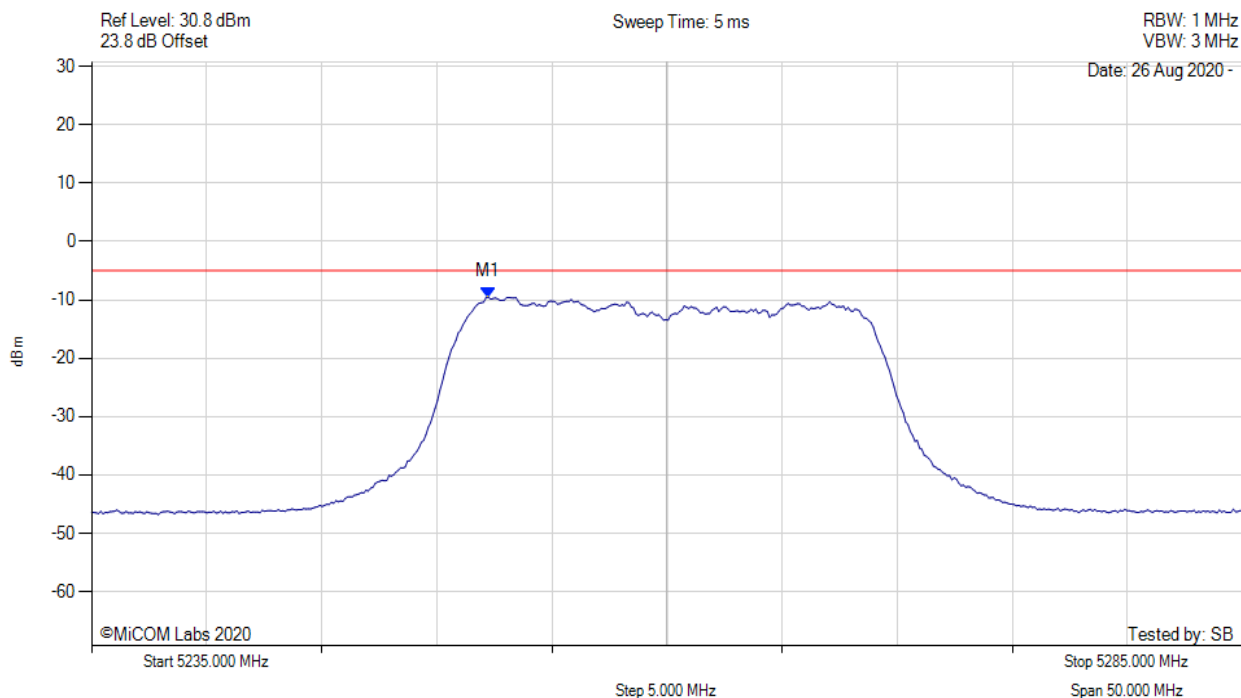
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5265.361 MHz : -11.181 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



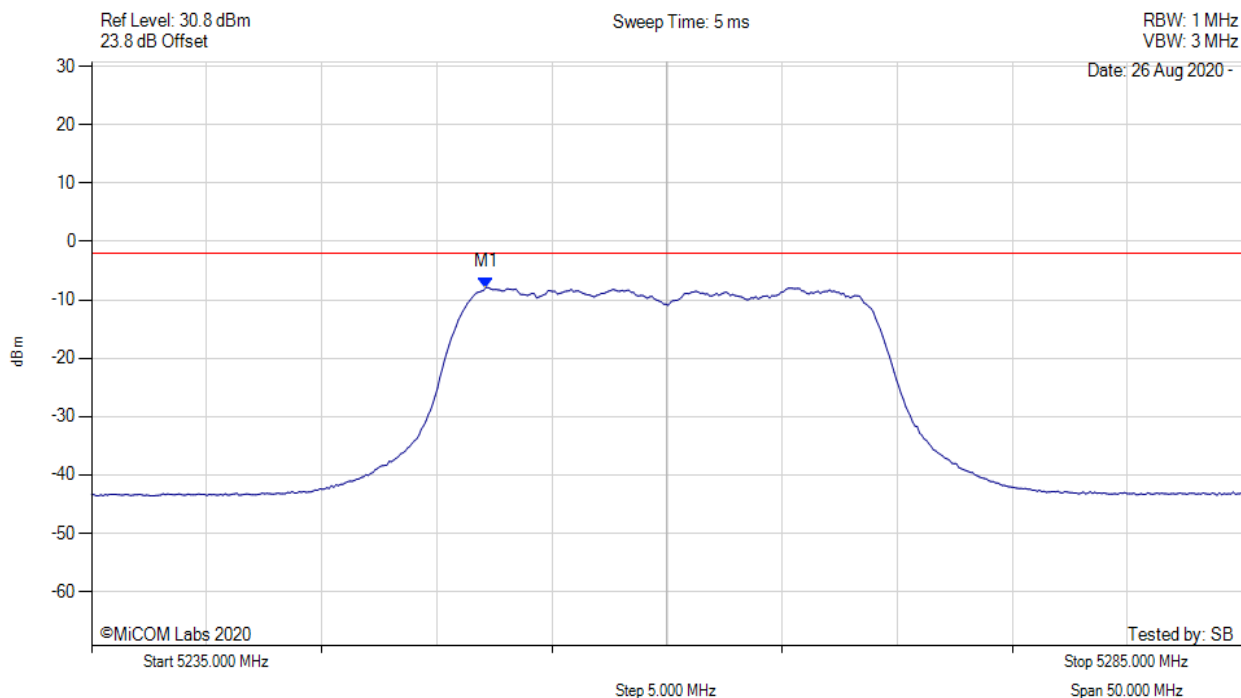
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5252.234 MHz : -9.534 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5260.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



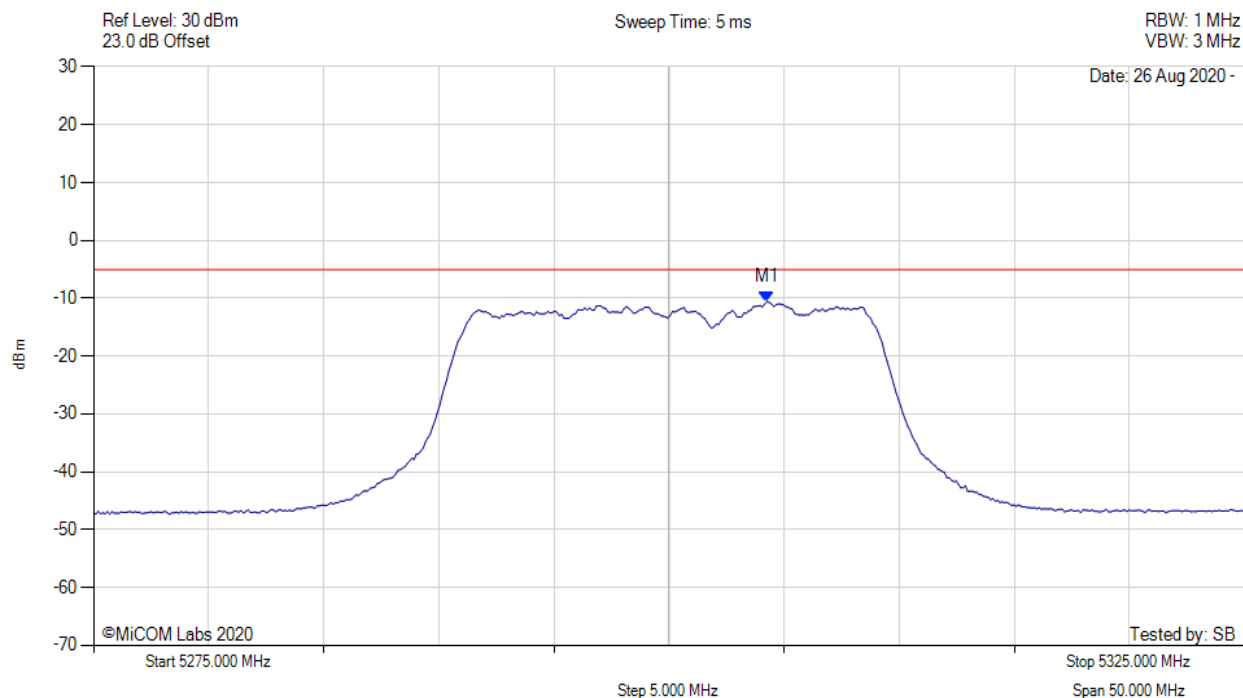
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5252.100 MHz : -7.887 dBm M1 + DCCF : 5252.100 MHz : -7.799 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -5.8 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



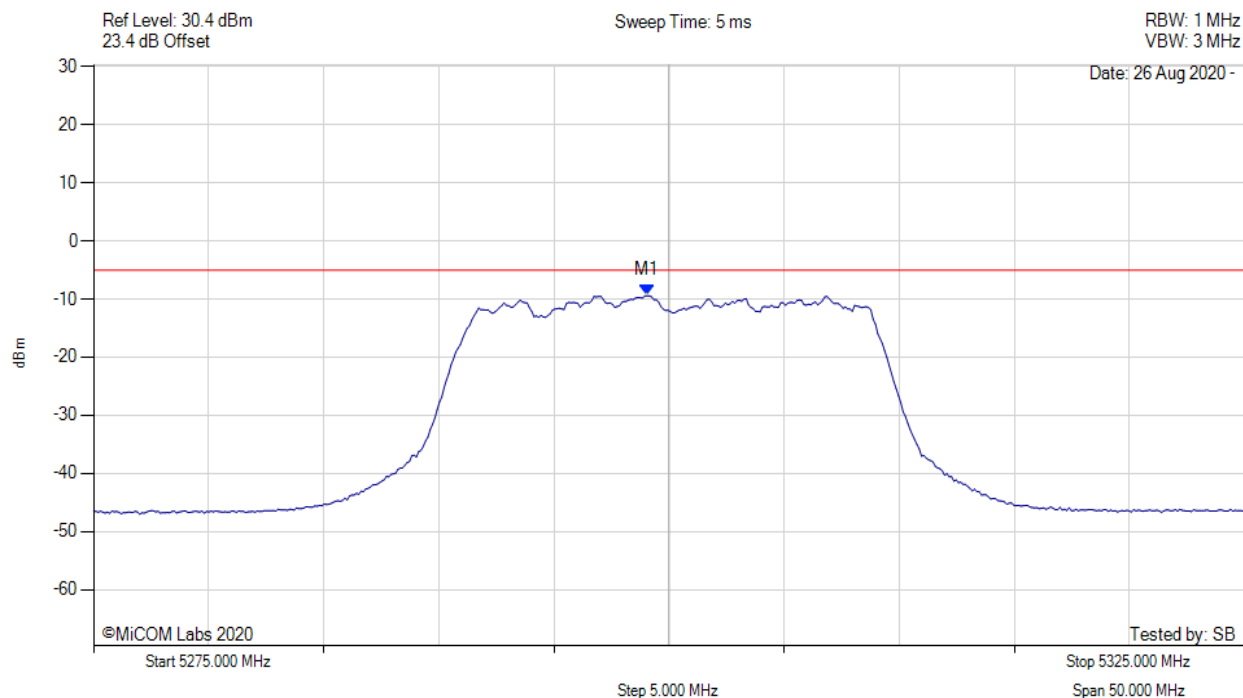
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5304.259 MHz : -10.567 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



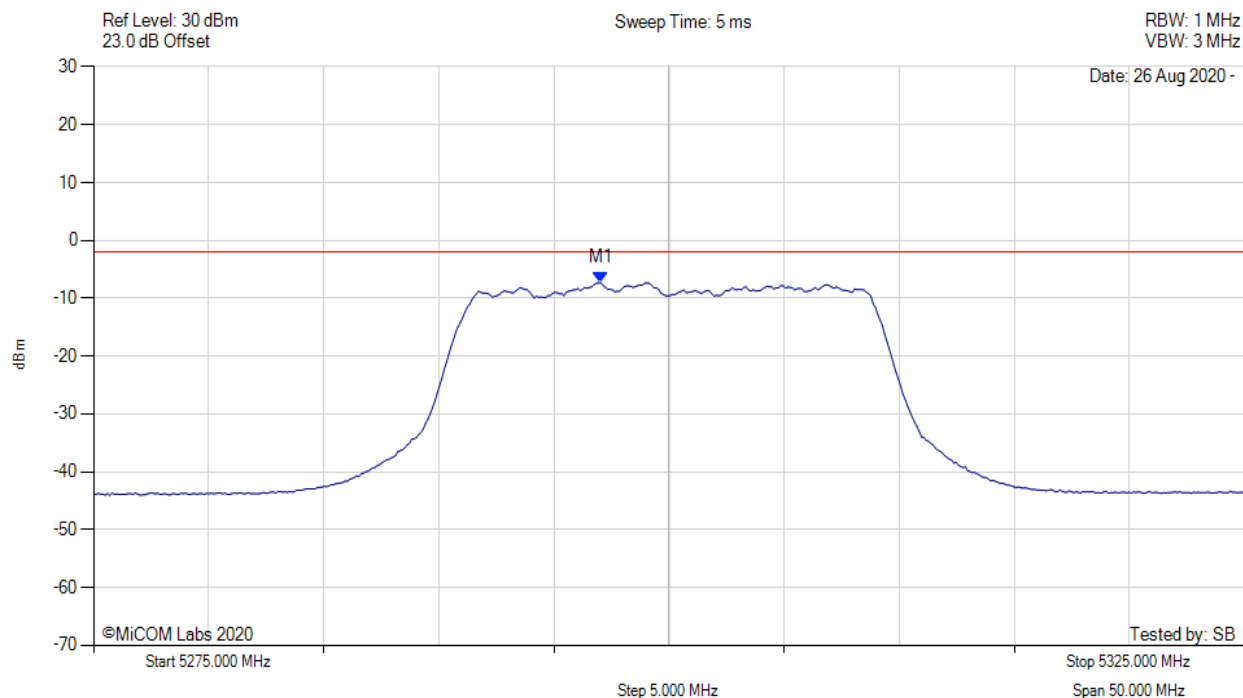
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5299.048 MHz : -9.417 dBm	Channel Frequency: 5300.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5300.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



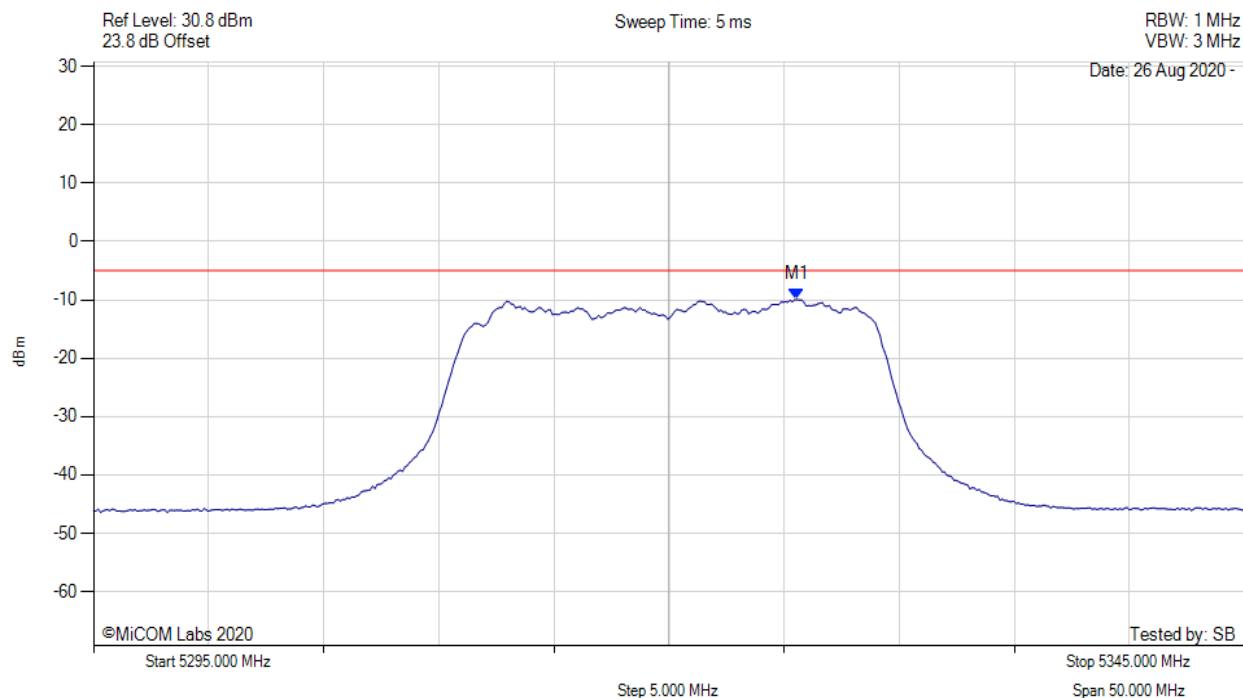
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.000 MHz : -7.332 dBm M1 + DCCF : 5297.000 MHz : -7.244 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -5.3 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



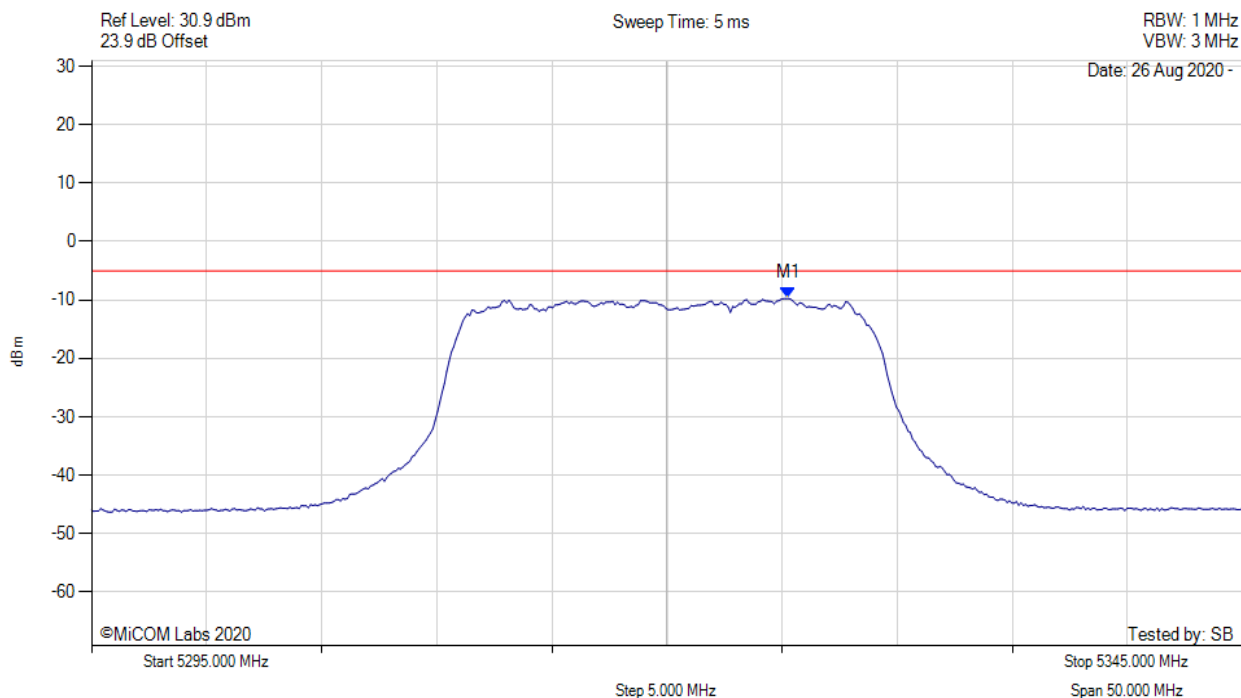
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.561 MHz : -9.973 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



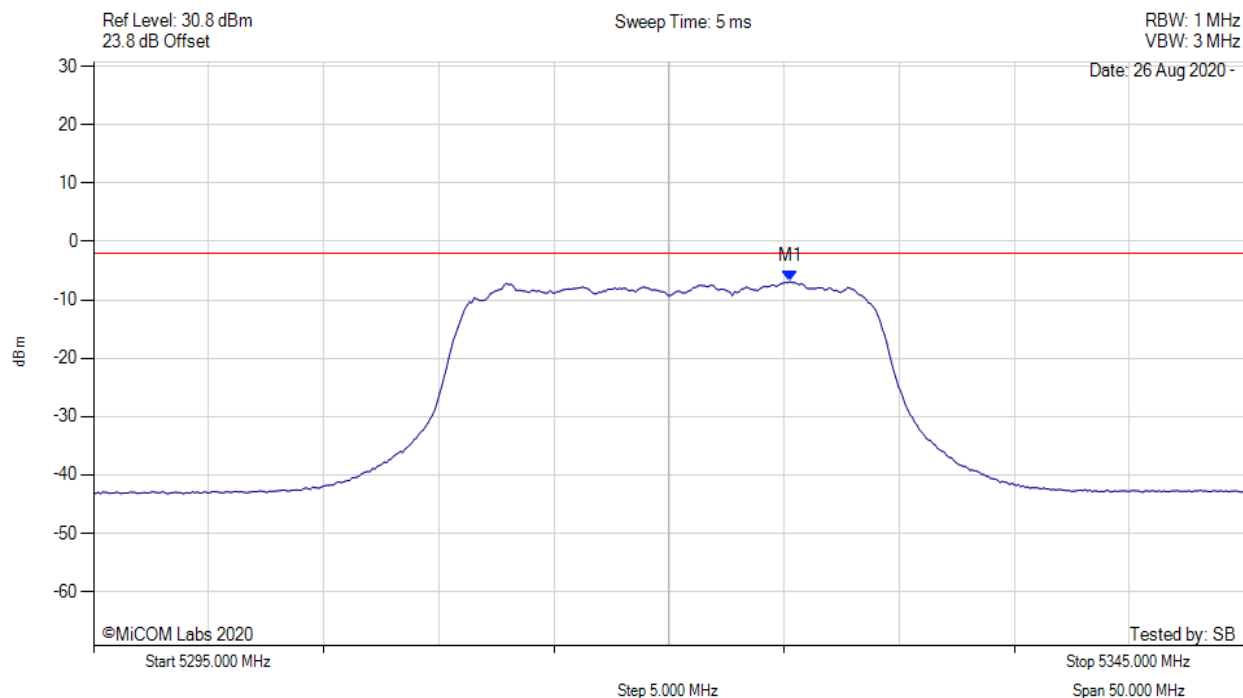
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.261 MHz : -9.728 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5320.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



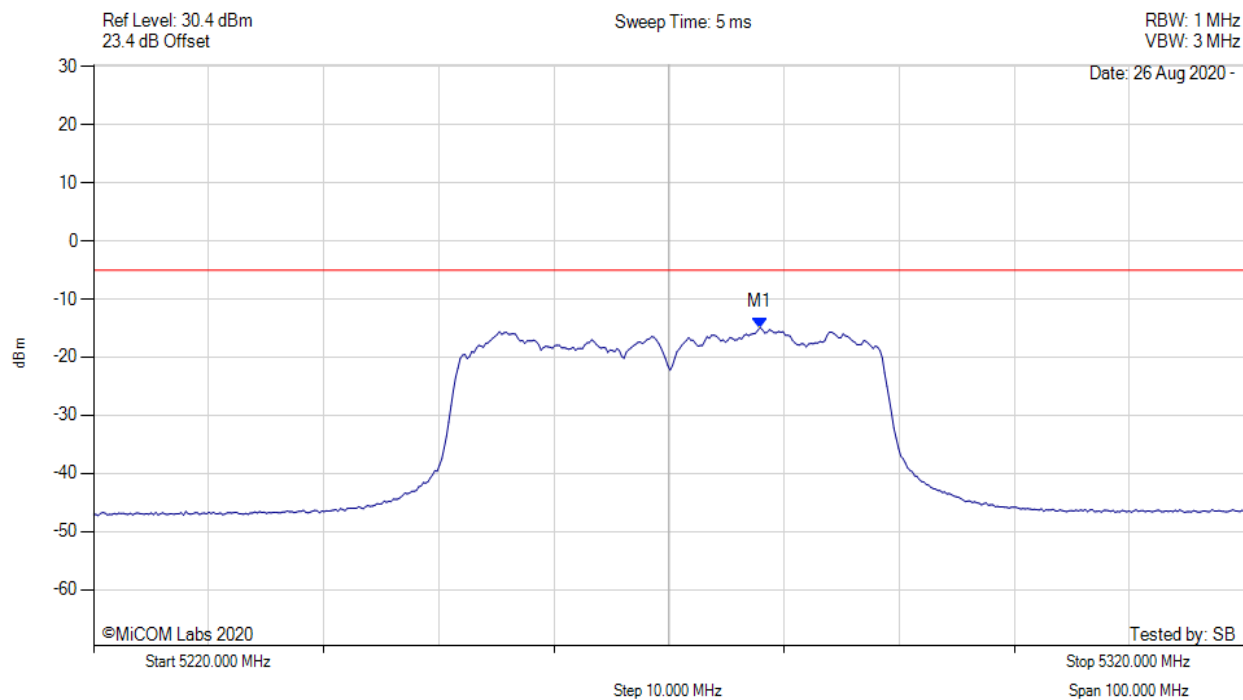
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5325.300 MHz : -6.884 dBm M1 + DCCF : 5325.300 MHz : -6.796 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -4.8 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



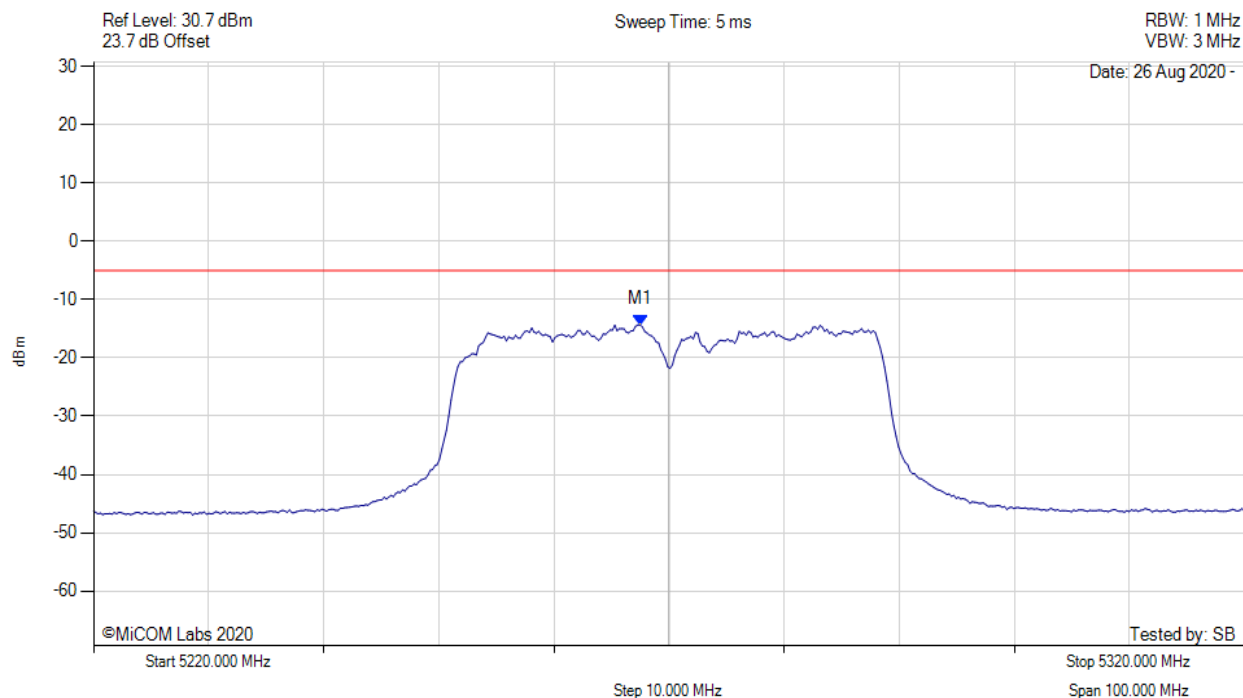
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5277.916 MHz : -14.925 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



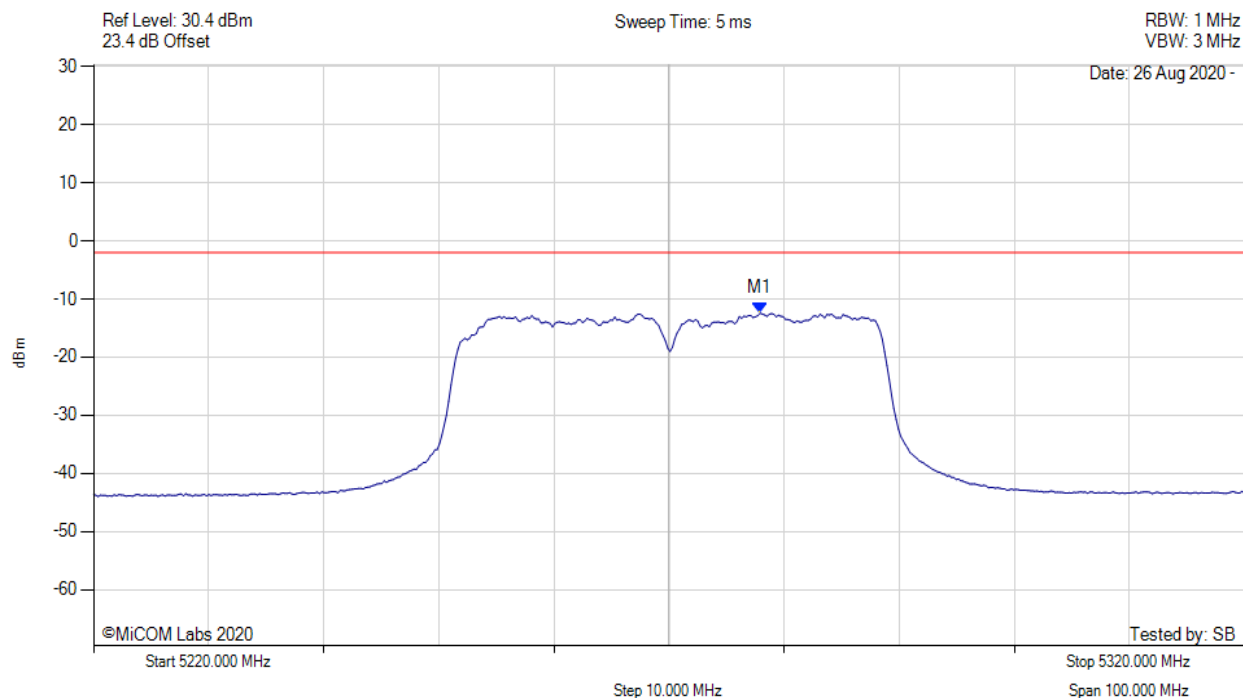
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.495 MHz : -14.319 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5270.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



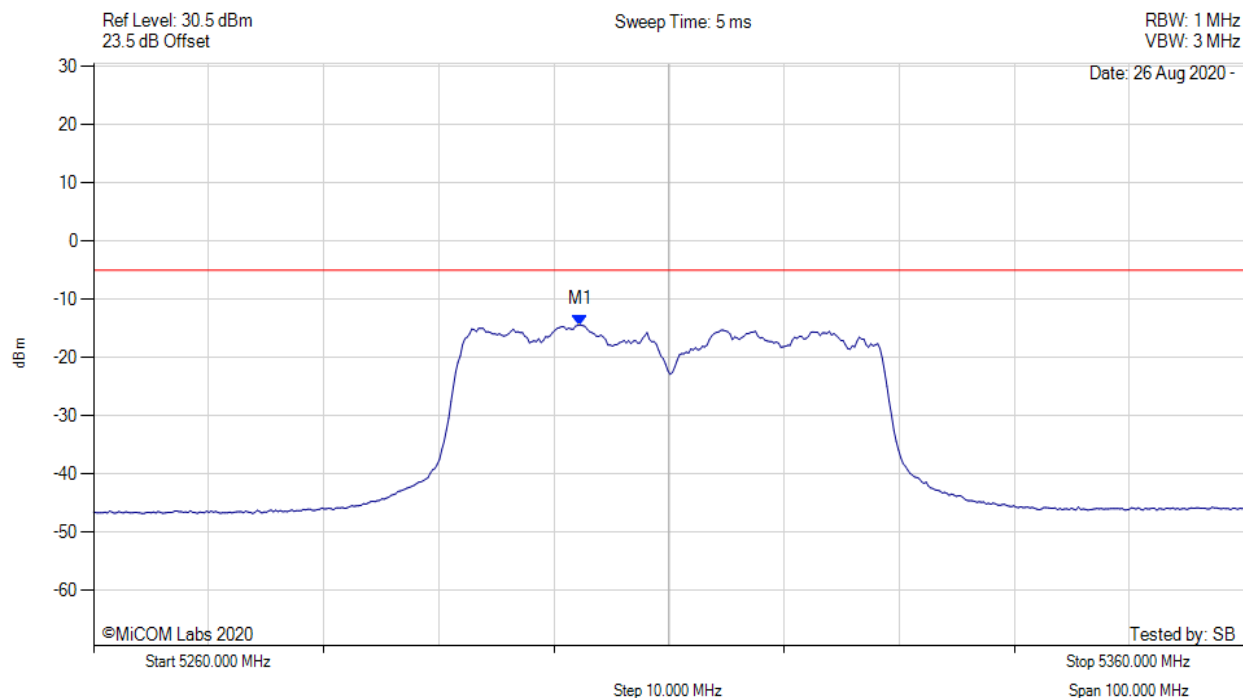
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5277.900 MHz : -12.444 dBm M1 + DCCF : 5277.900 MHz : -12.082 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ -2.0 dBm Margin: -10.1 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



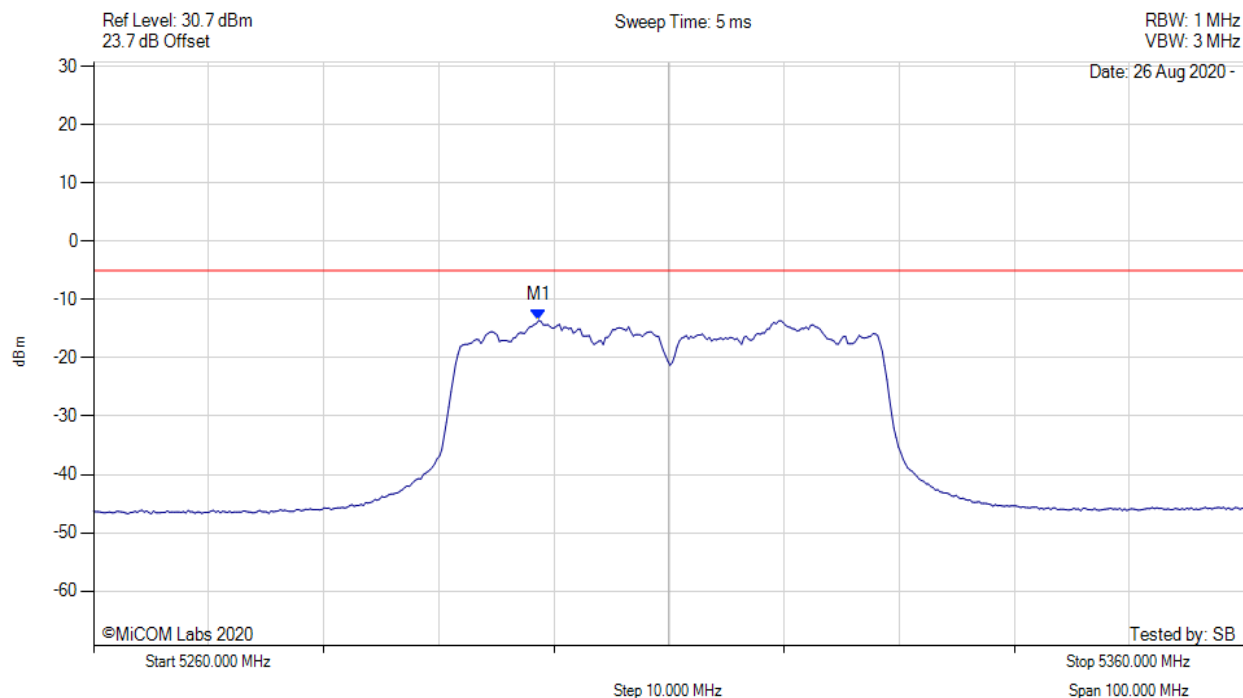
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5302.285 MHz : -14.415 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



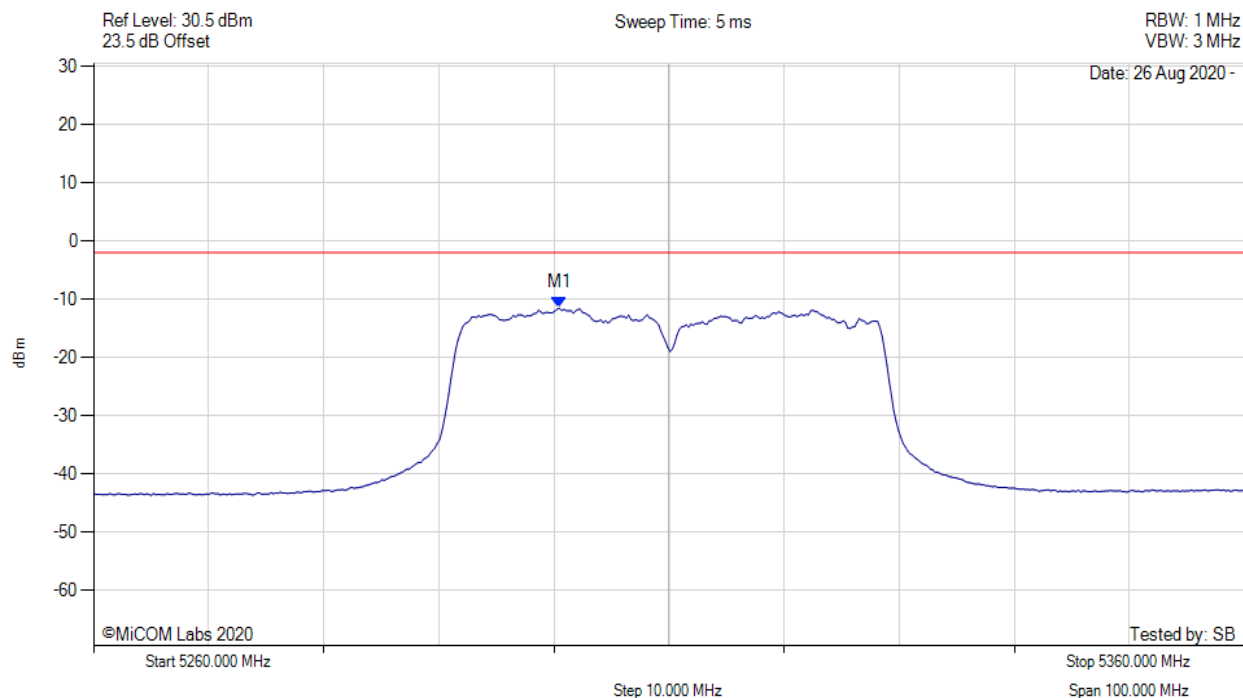
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5298.677 MHz : -13.560 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5310.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



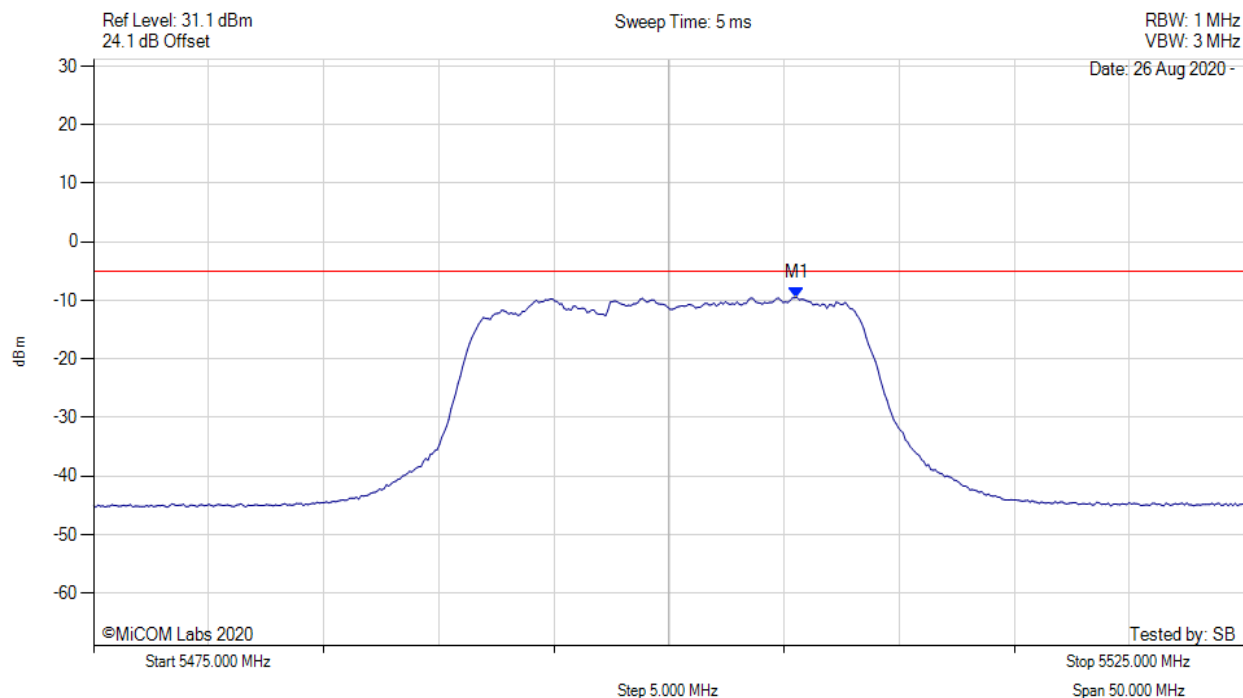
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5300.500 MHz : -11.531 dBm M1 + DCCF : 5300.500 MHz : -11.169 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ -2.0 dBm Margin: -9.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



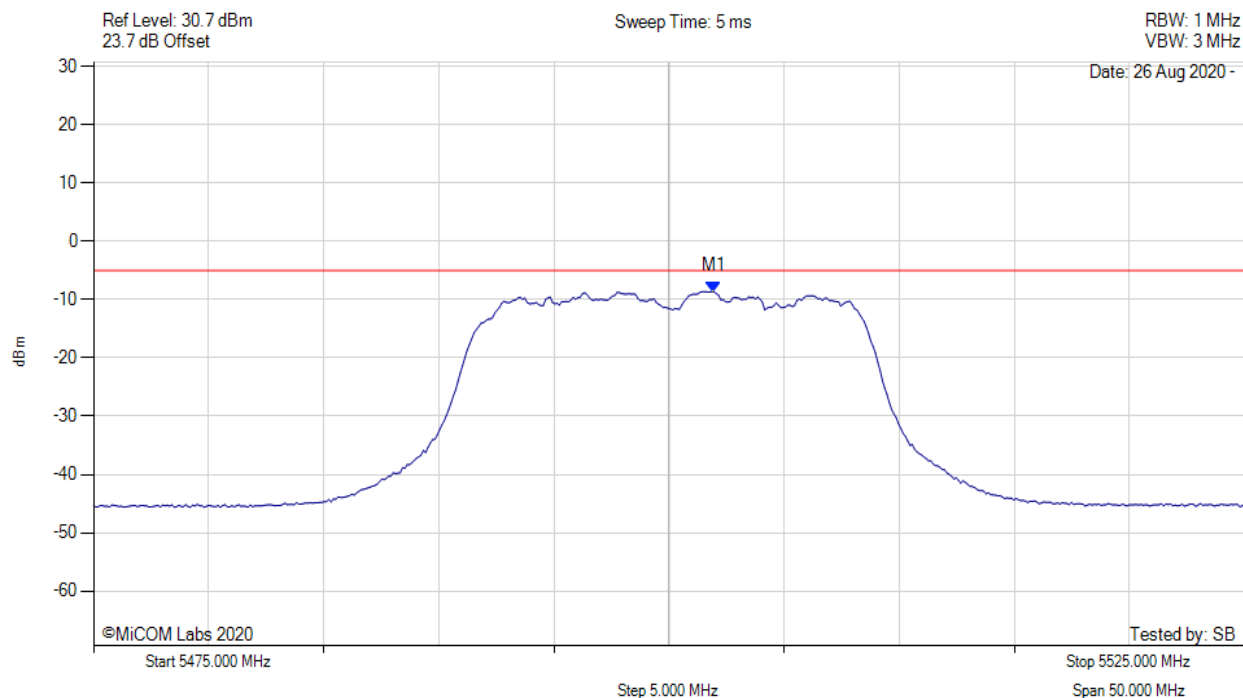
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.561 MHz : -9.503 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



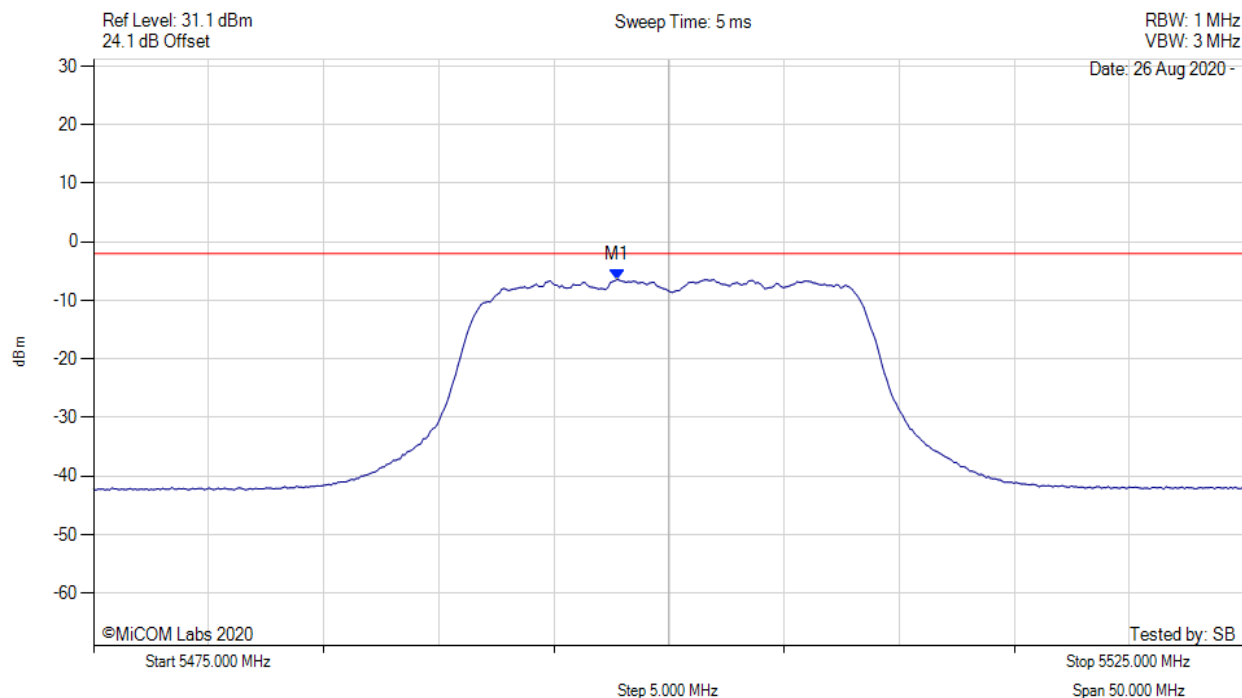
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5501.954 MHz : -8.633 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



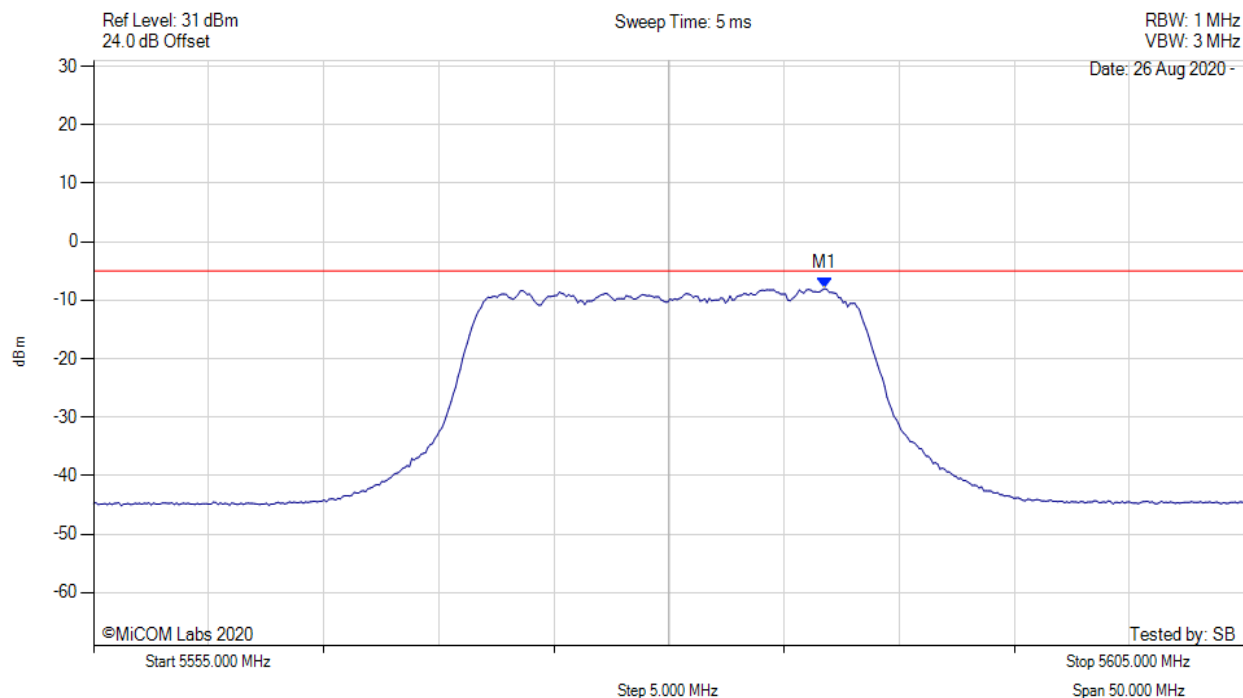
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5497.700 MHz : -6.402 dBm M1 + DCCF : 5497.700 MHz : -6.358 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -4.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



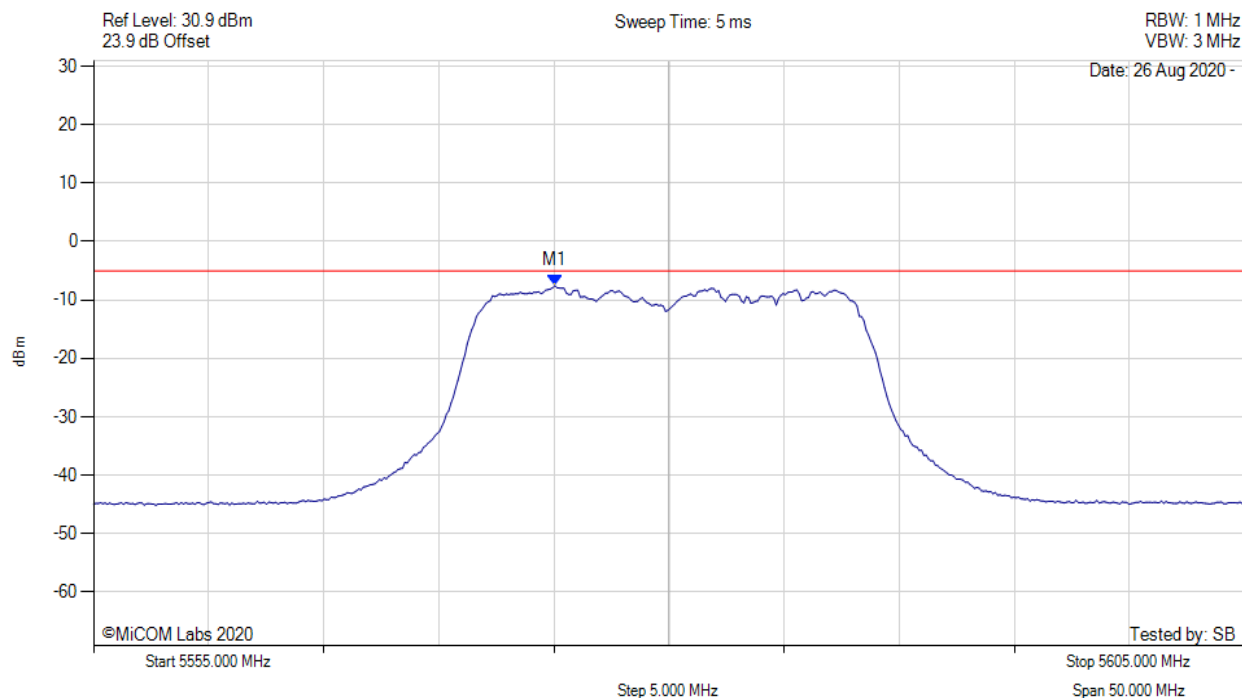
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.764 MHz : -8.016 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



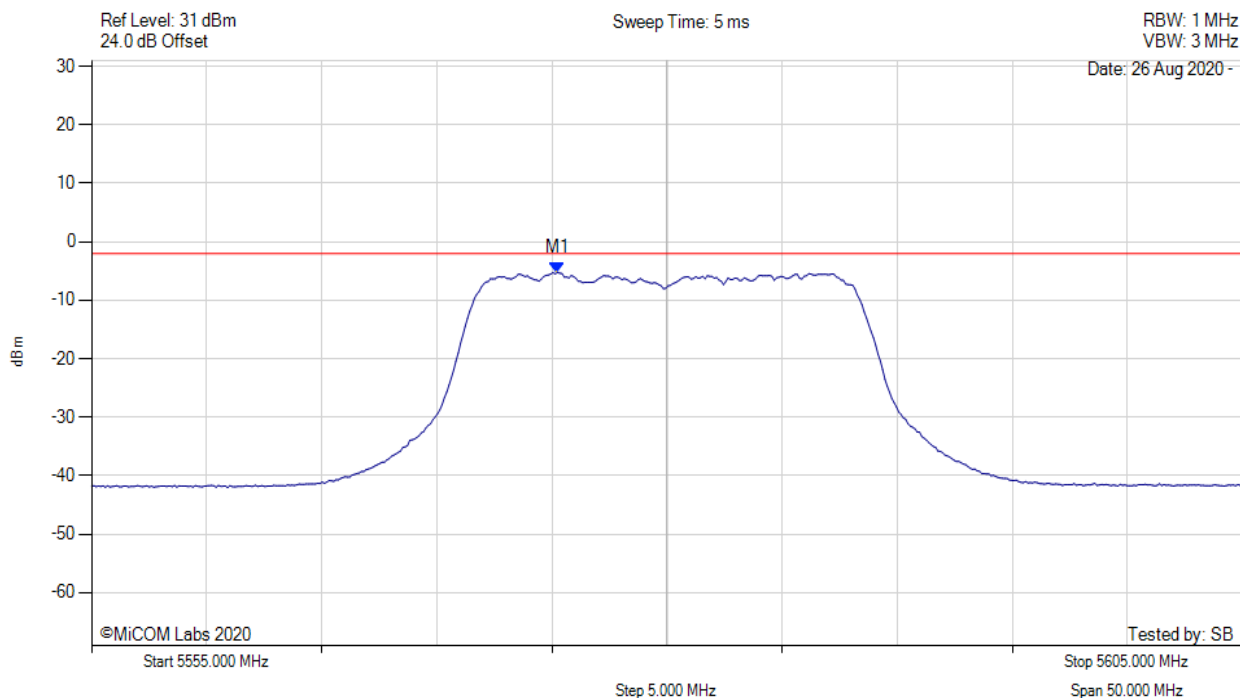
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.040 MHz : -7.531 dBm	Channel Frequency: 5580.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



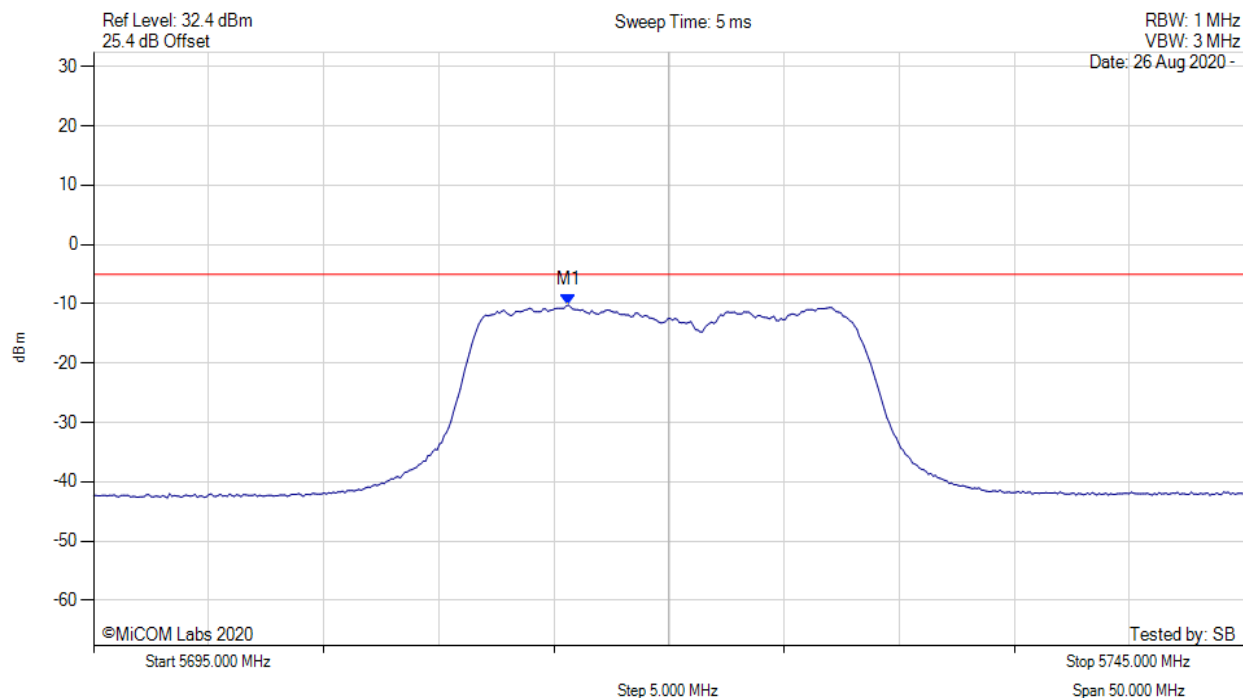
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5575.200 MHz : -5.255 dBm M1 + DCCF : 5575.200 MHz : -5.211 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -3.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



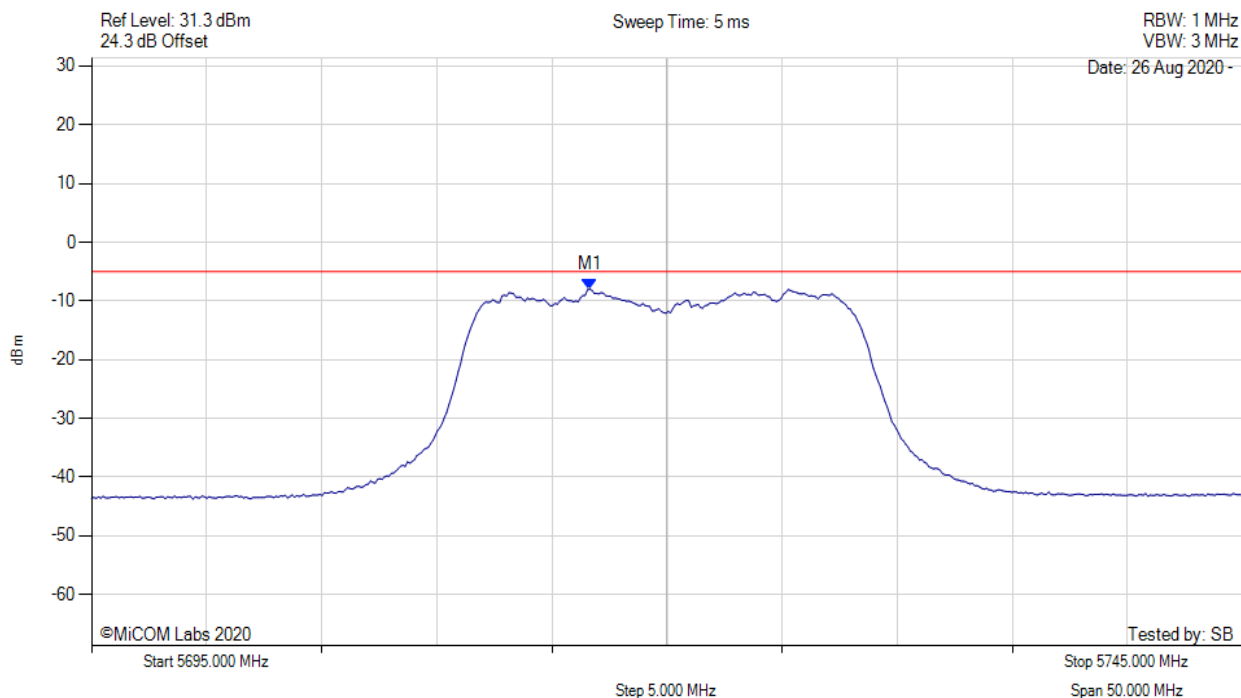
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5715.641 MHz : -10.235 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



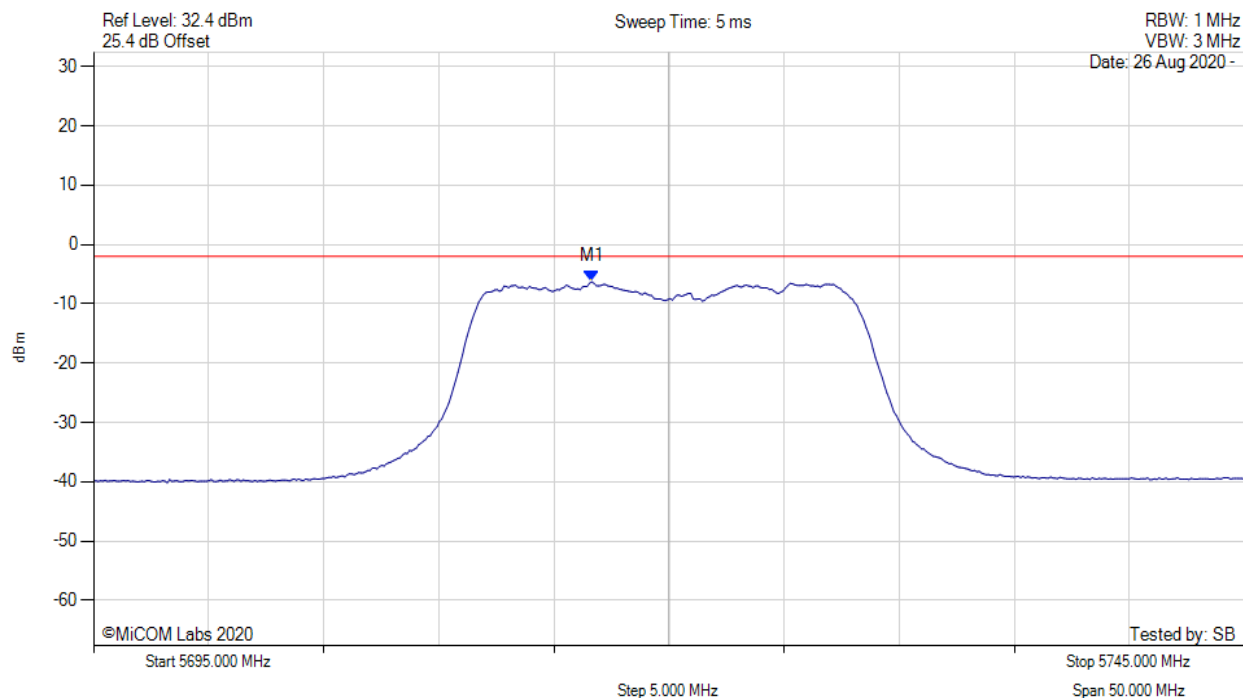
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5716.643 MHz : -7.999 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11a, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



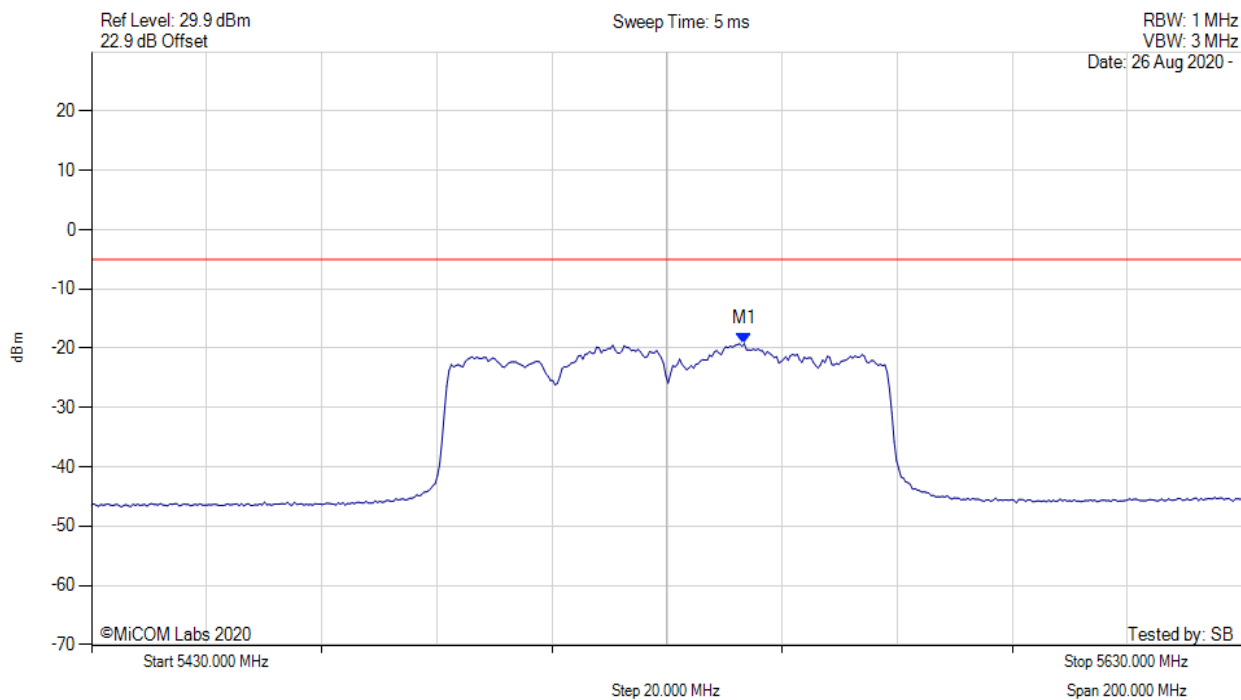
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5716.600 MHz : -6.283 dBm M1 + DCCF : 5716.600 MHz : -6.239 dBm Duty Cycle Correction Factor : +0.04 dB	Limit: ≤ -2.0 dBm Margin: -4.2 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



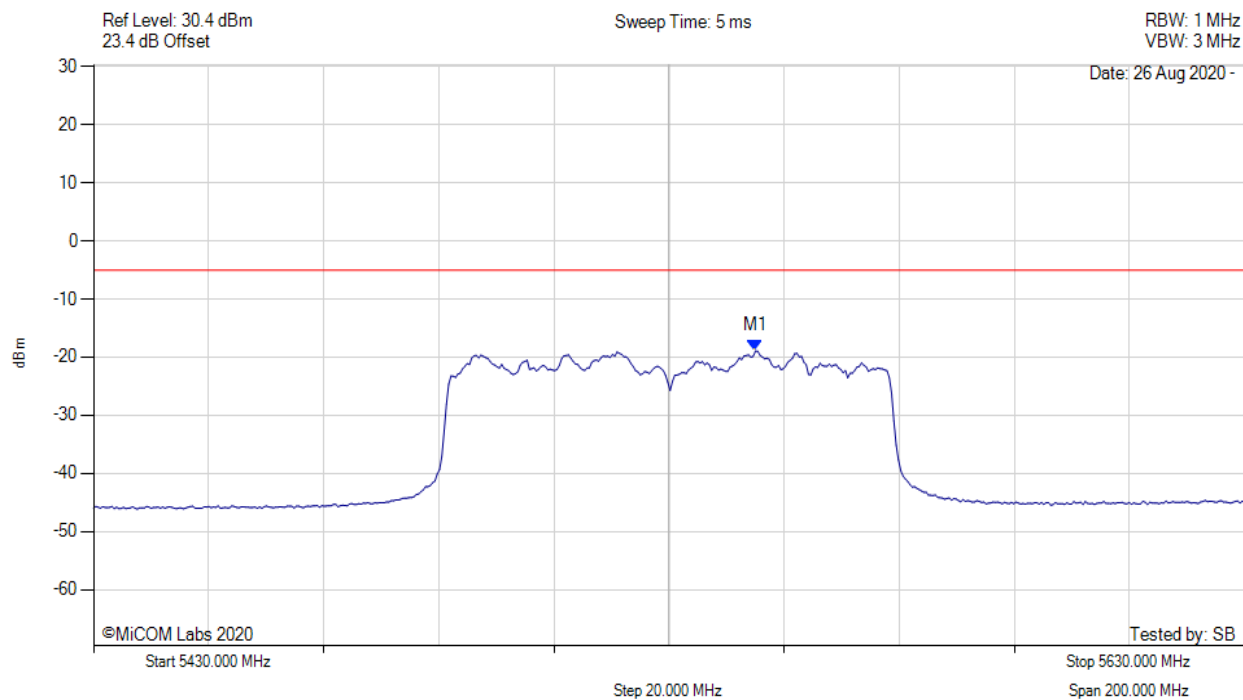
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5543.427 MHz : -19.215 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



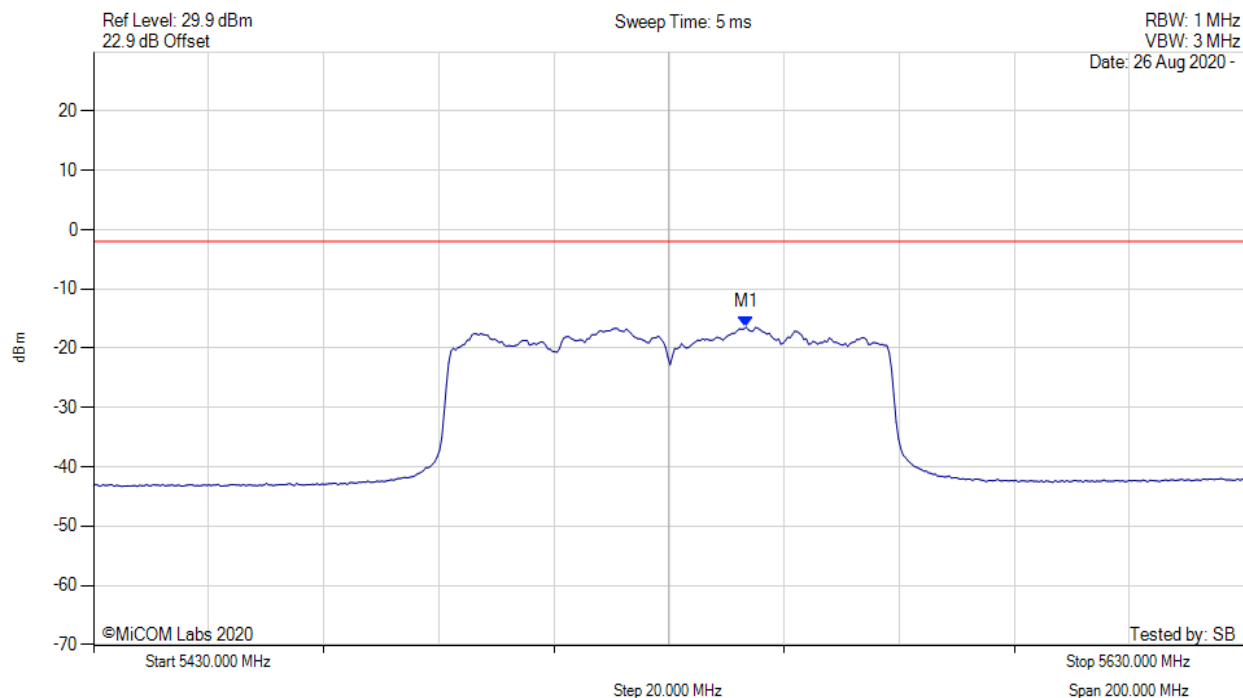
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5545.030 MHz : -18.939 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5530.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



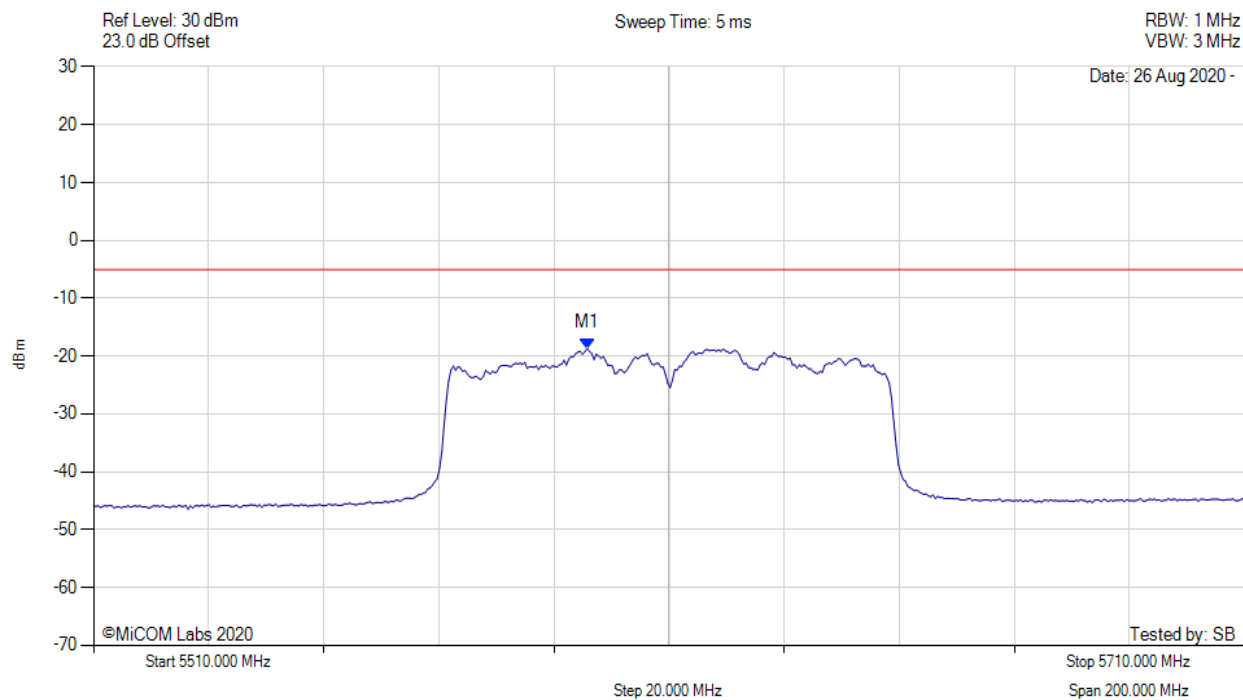
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5543.400 MHz : -16.445 dBm M1 + DCCF : 5543.400 MHz : -15.583 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ -2.0 dBm Margin: -13.6 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



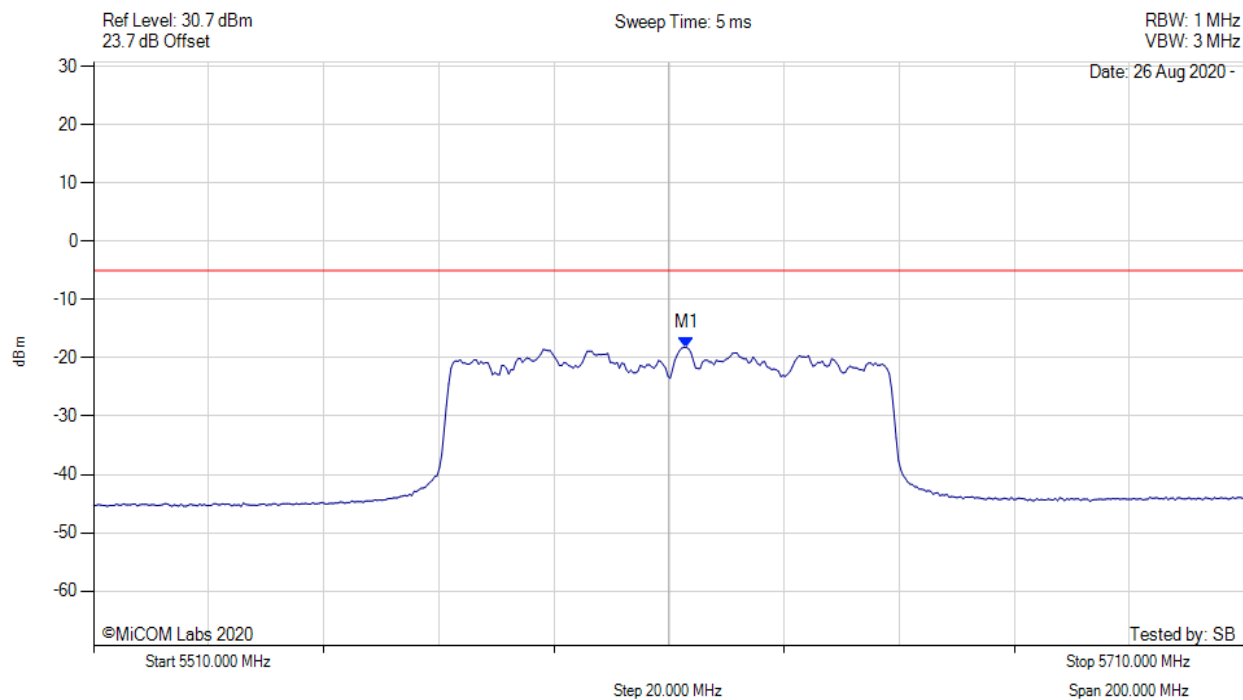
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5595.772 MHz : -18.668 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



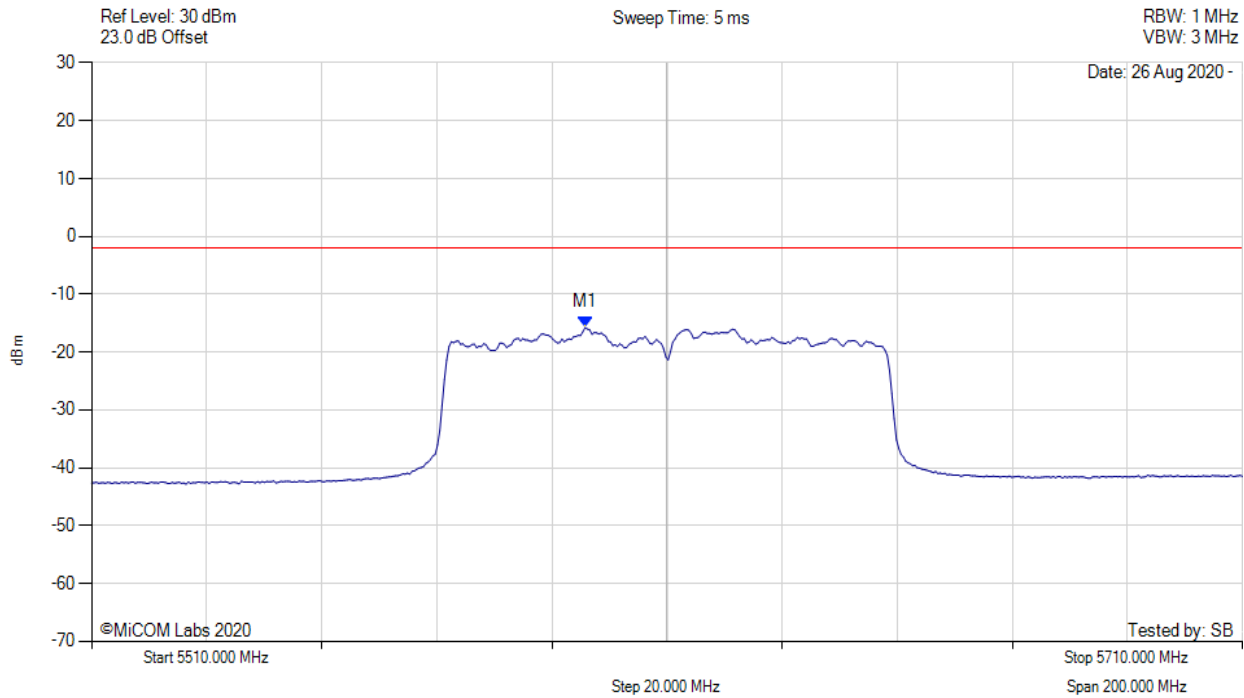
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5613.006 MHz : -18.157 dBm	Channel Frequency: 5610.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5610.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



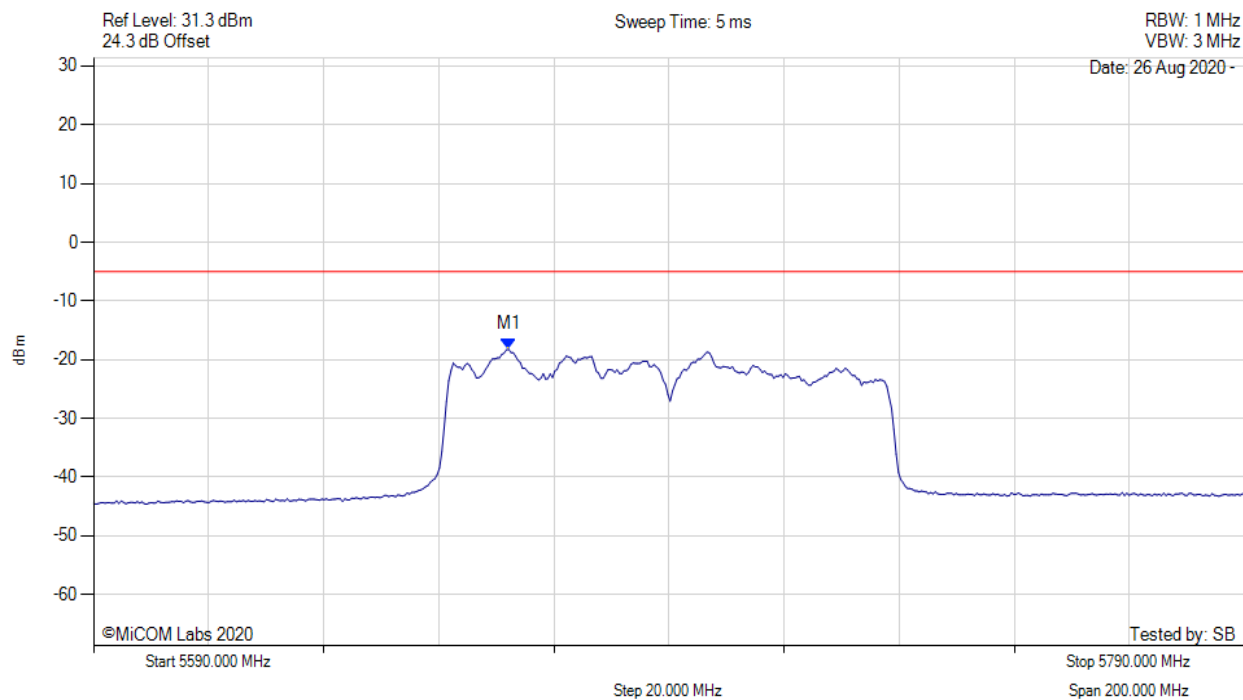
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5595.800 MHz : -15.749 dBm M1 + DCCF : 5595.800 MHz : -14.887 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ -2.0 dBm Margin: -12.9 dB

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



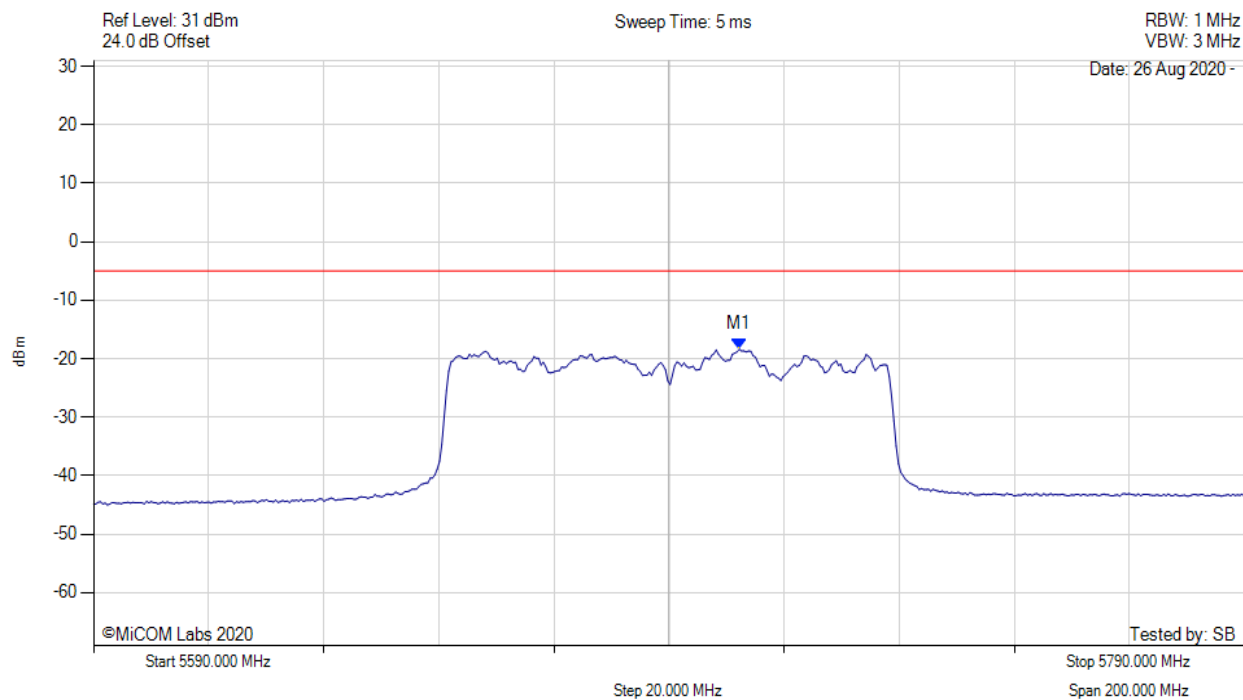
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5662.144 MHz : -18.254 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



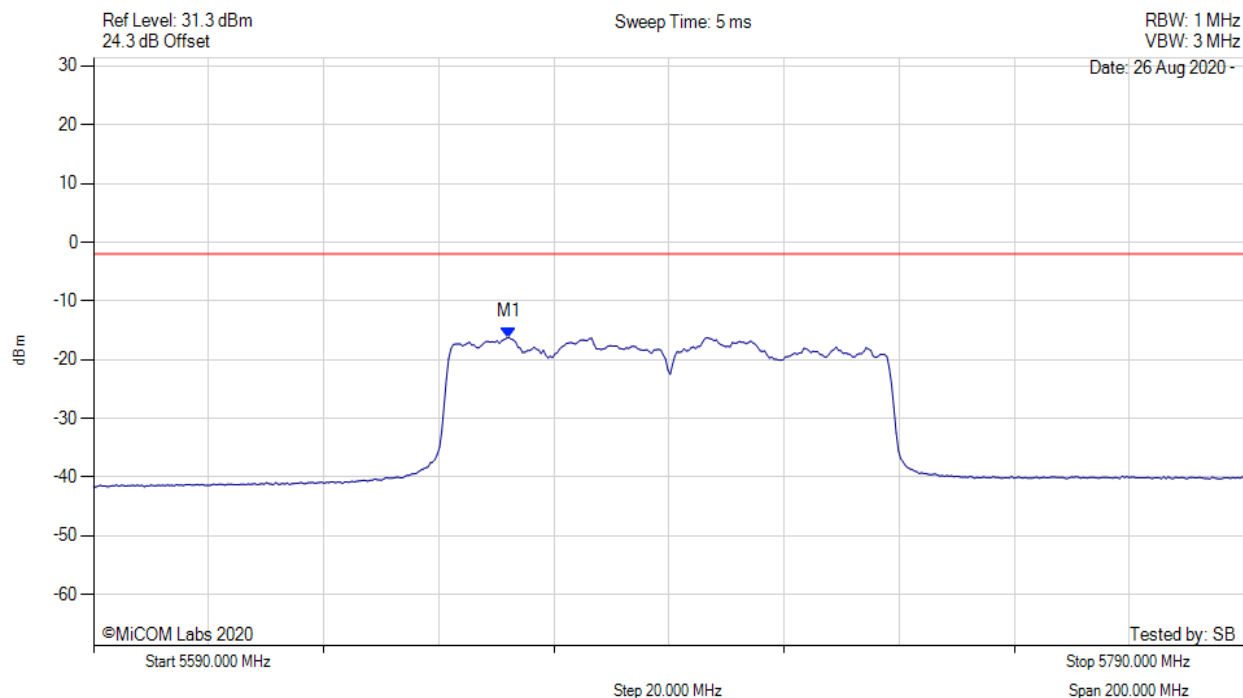
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5702.224 MHz : -18.380 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11ac-80, Channel: 5690.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



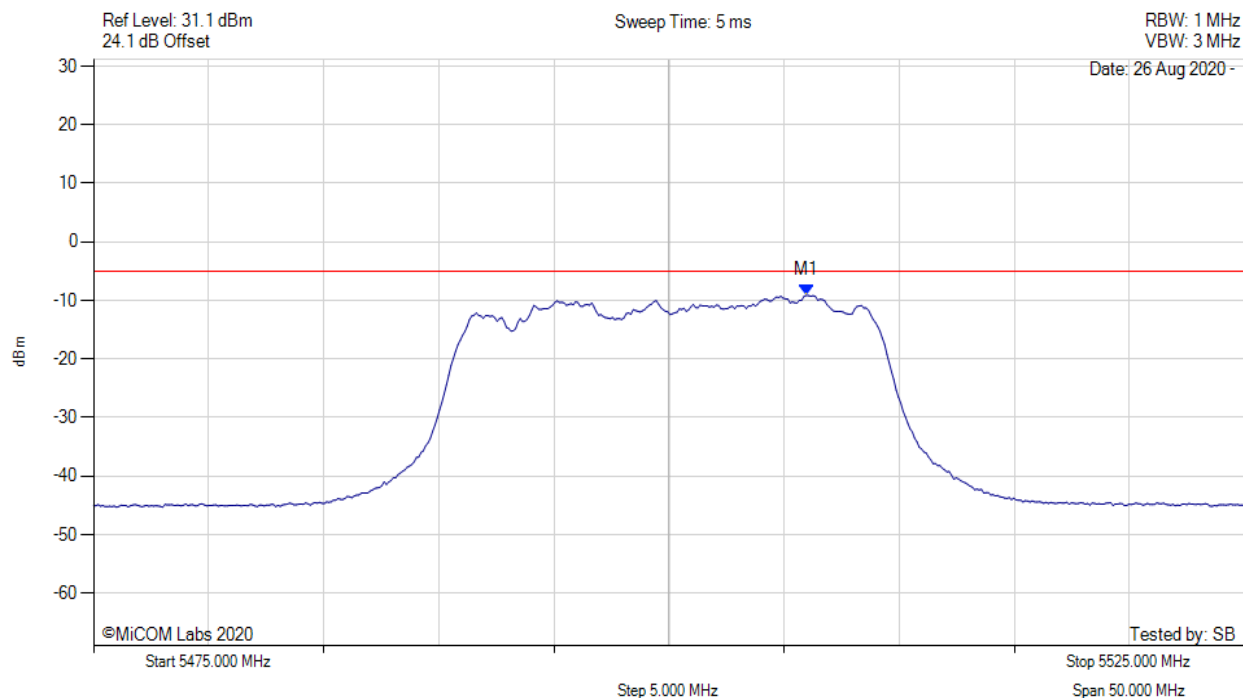
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5662.100 MHz : -16.229 dBm M1 + DCCF : 5662.100 MHz : -15.367 dBm Duty Cycle Correction Factor : +0.86 dB	Limit: ≤ -2.0 dBm Margin: -13.4 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



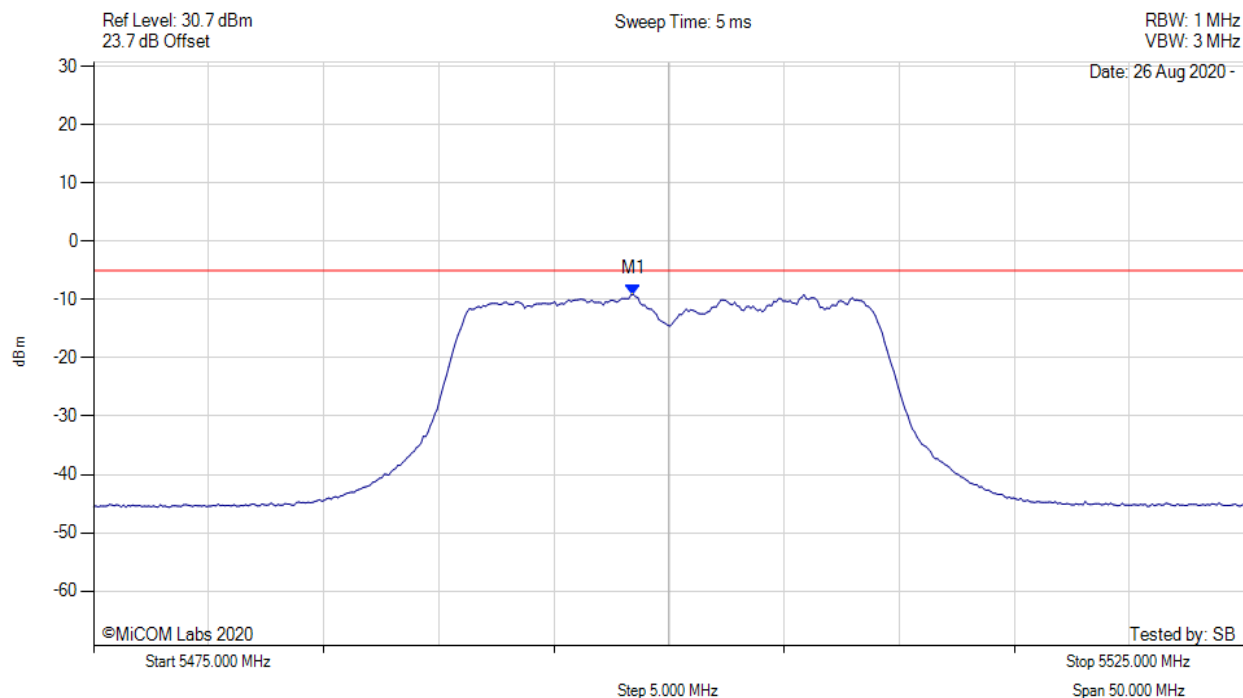
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.962 MHz : -9.134 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



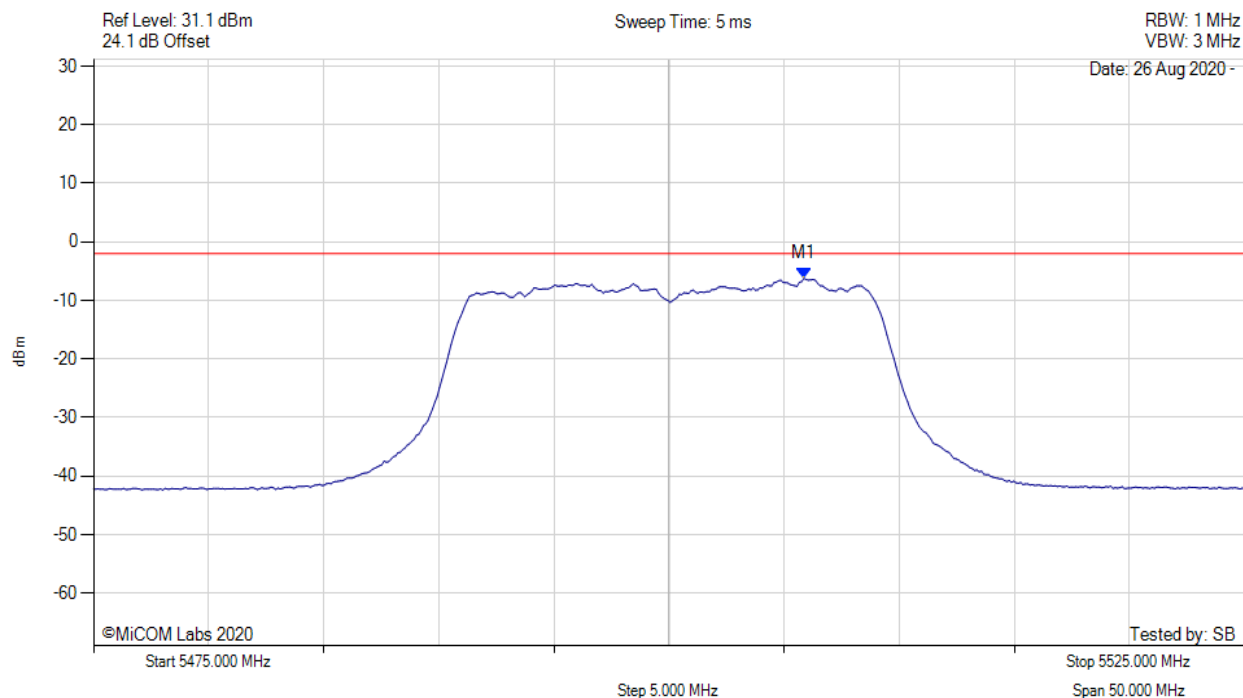
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5498.447 MHz : -9.104 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5500.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



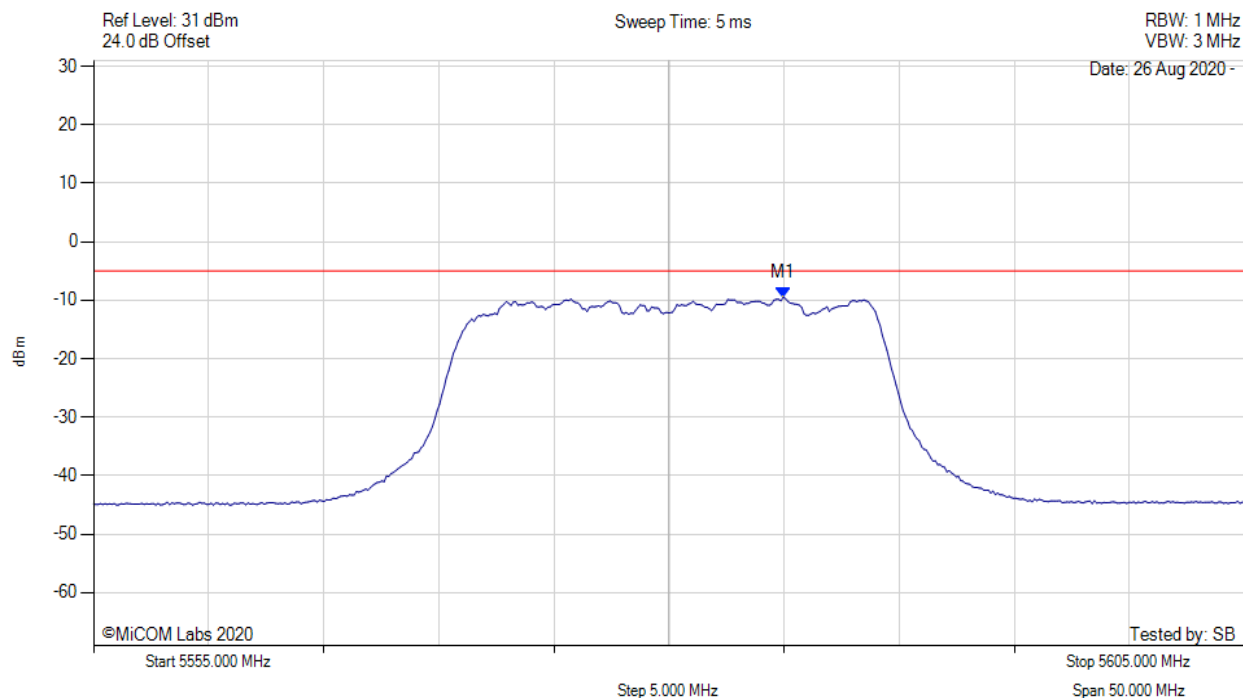
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.900 MHz : -6.215 dBm M1 + DCCF : 5505.900 MHz : -6.127 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -4.1 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



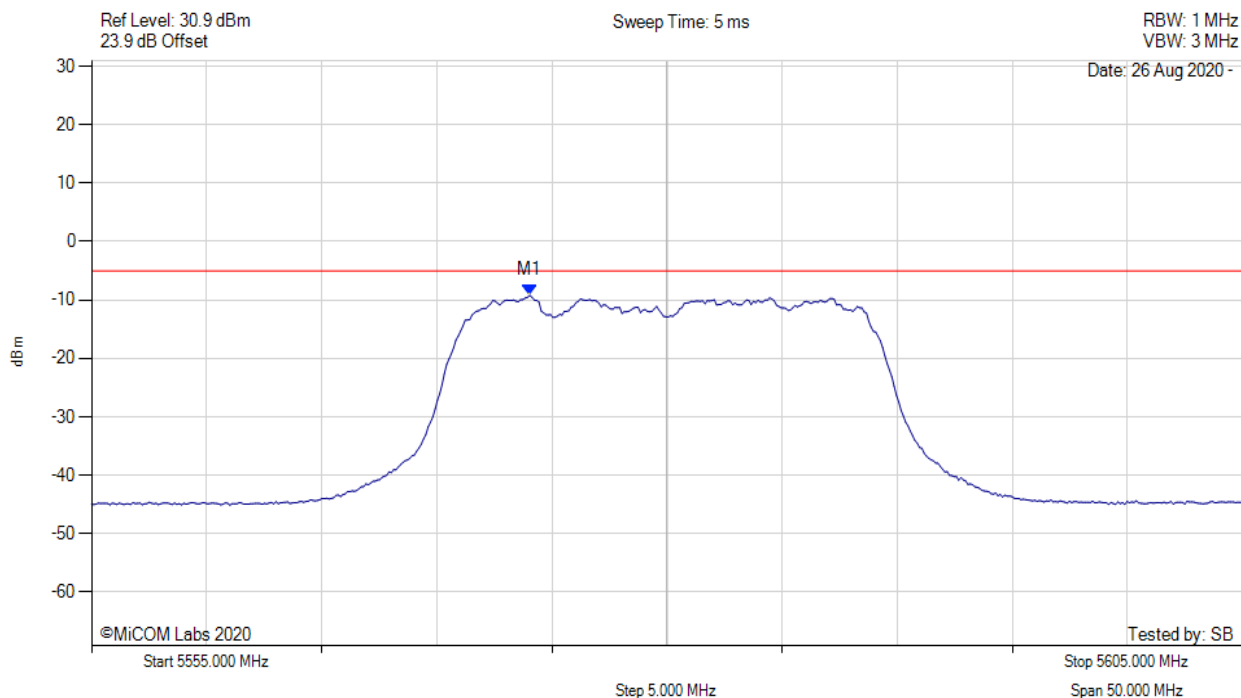
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5584.960 MHz : -9.512 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



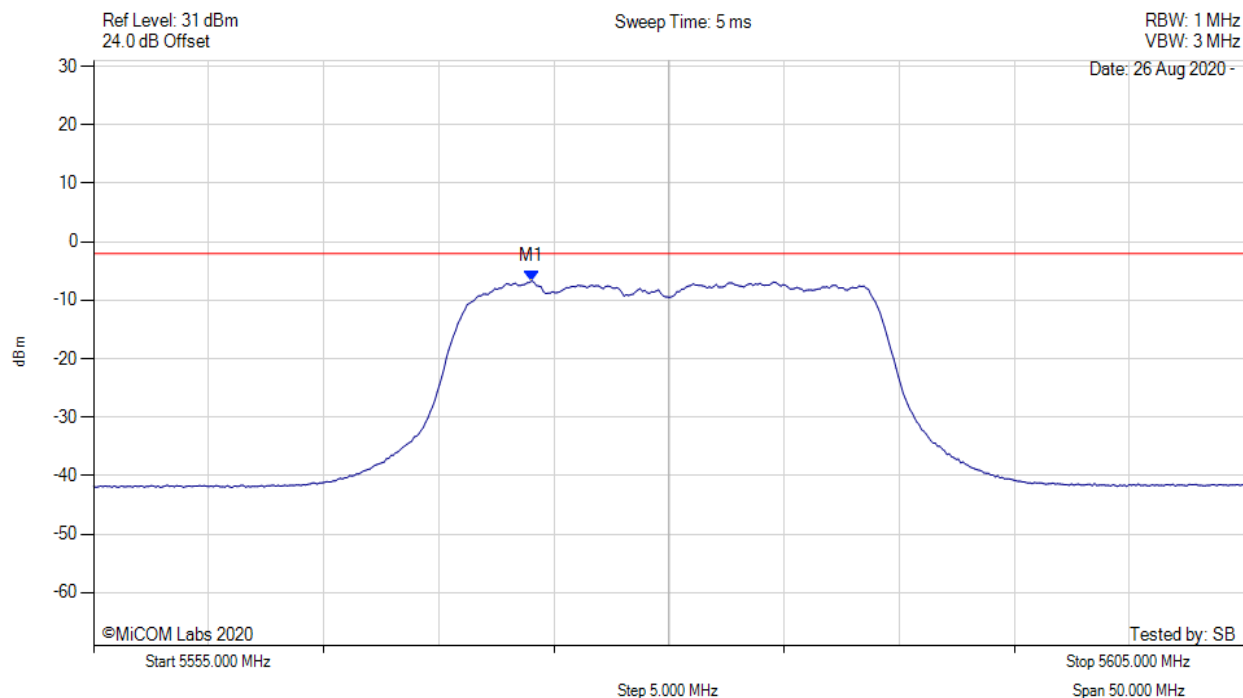
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.038 MHz : -9.200 dBm	Channel Frequency: 5580.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5580.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



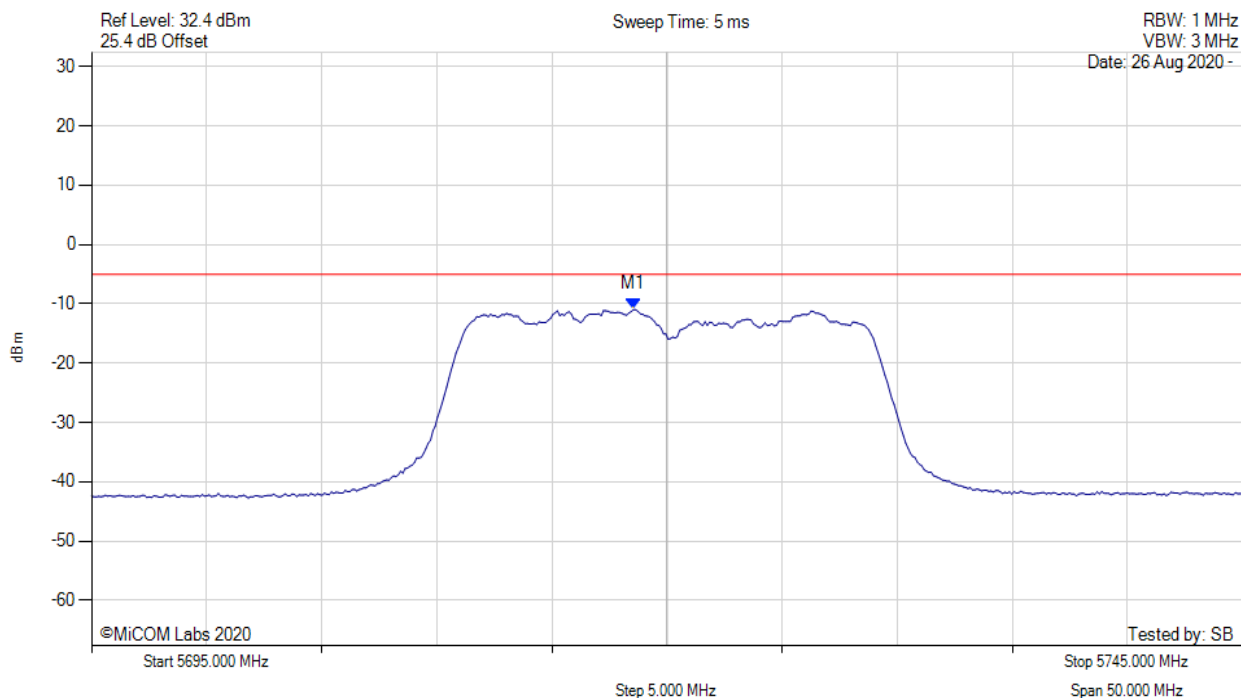
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5574.000 MHz : -6.702 dBm M1 + DCCF : 5574.000 MHz : -6.658 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -4.7 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



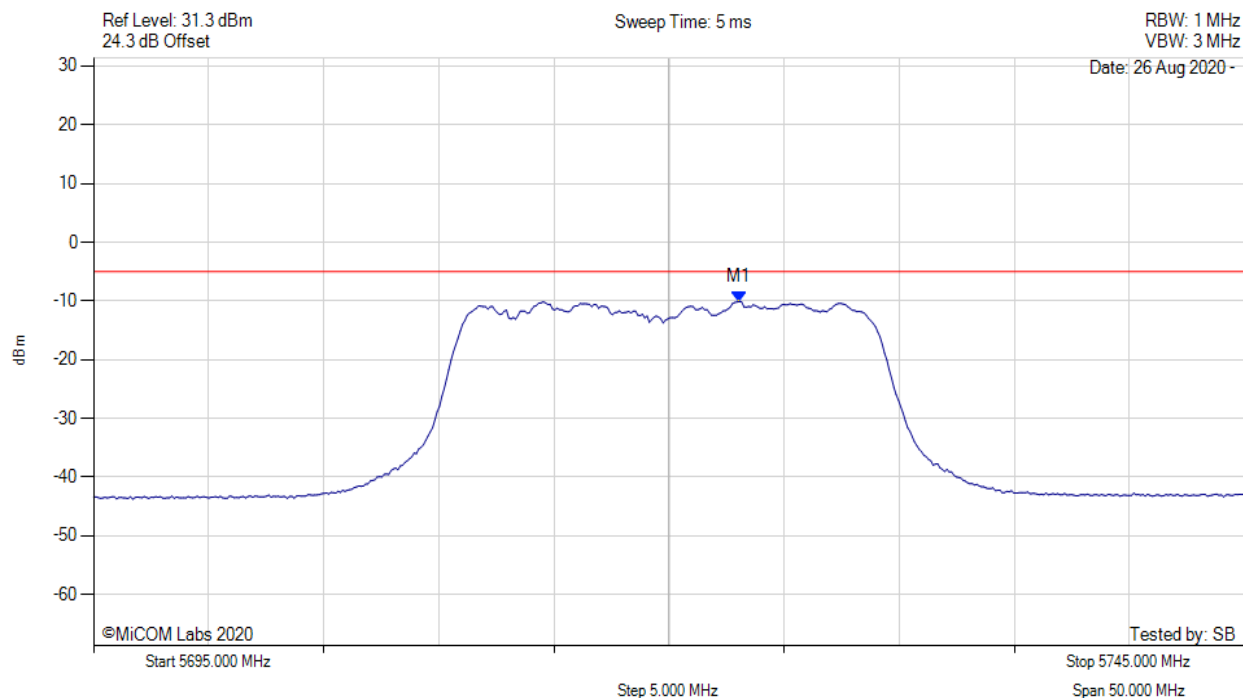
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5718.547 MHz : -10.964 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



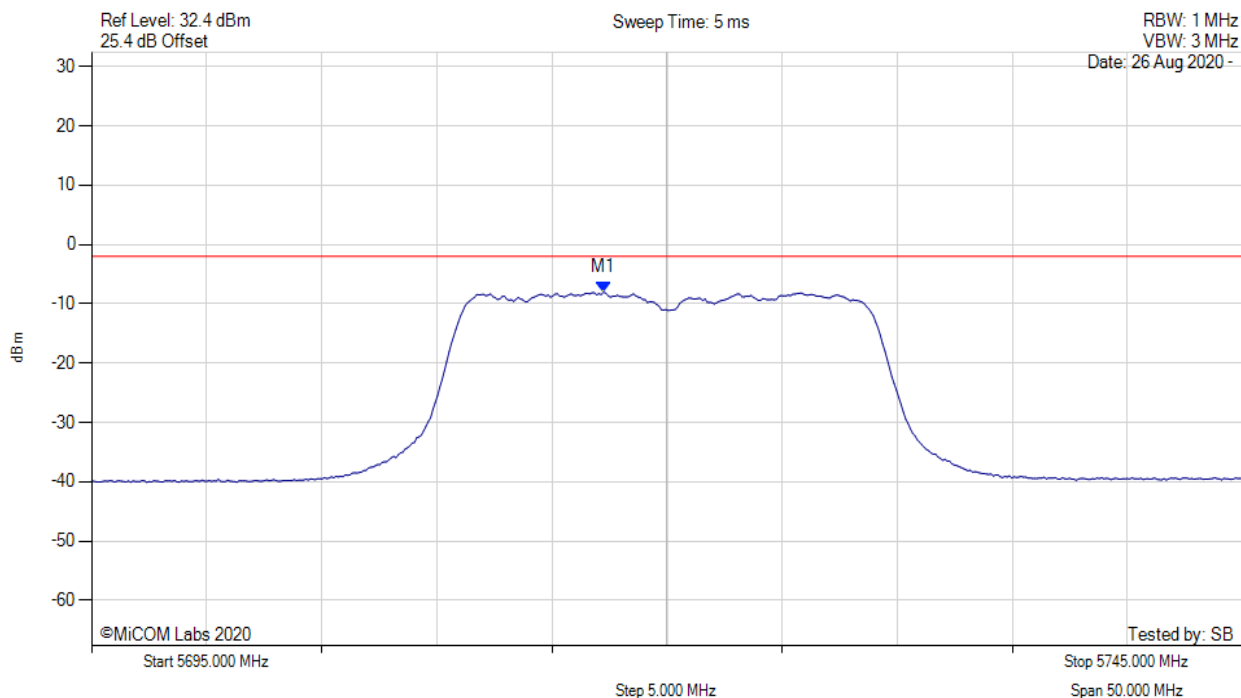
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5723.056 MHz : -10.120 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-20, Channel: 5720.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



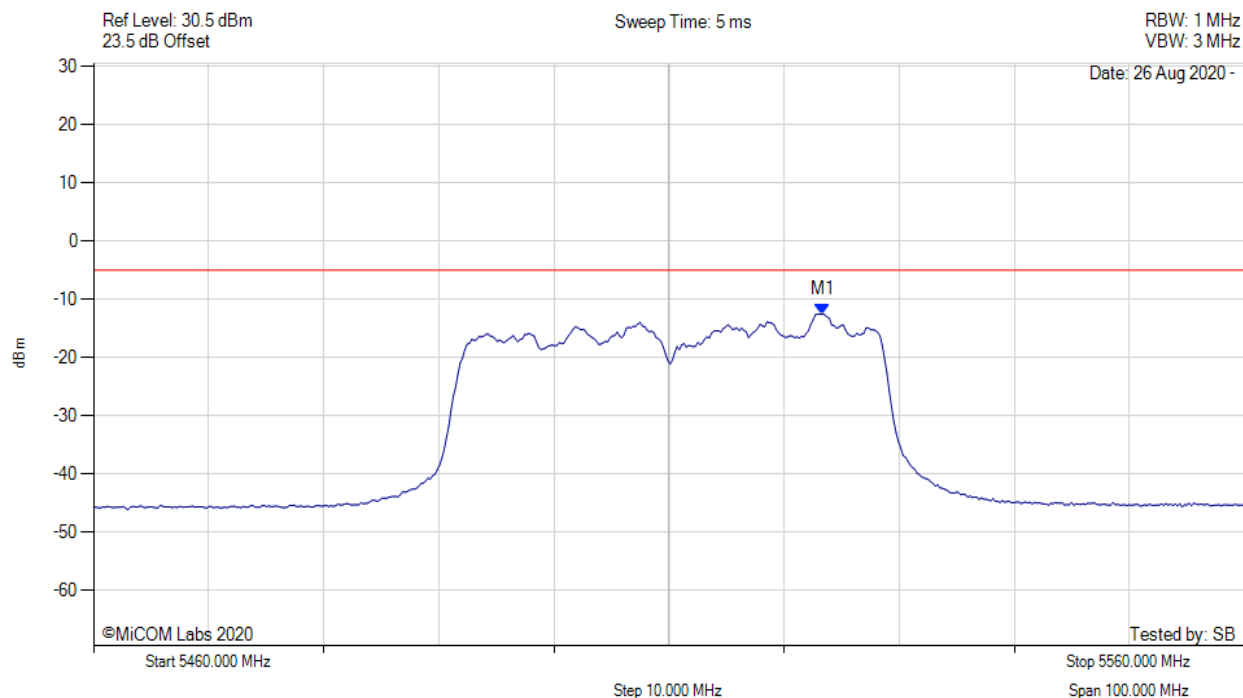
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5717.200 MHz : -8.044 dBm M1 + DCCF : 5717.200 MHz : -8.000 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ -2.0 dBm Margin: -6.0 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



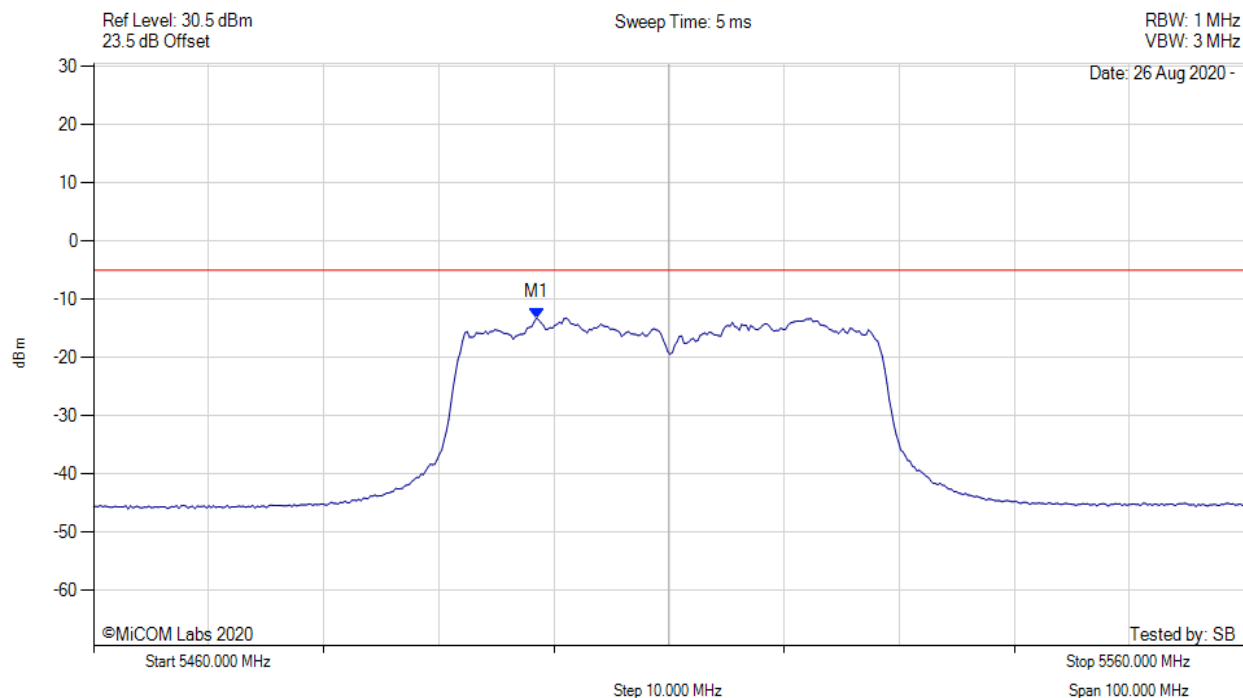
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5523.327 MHz : -12.543 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



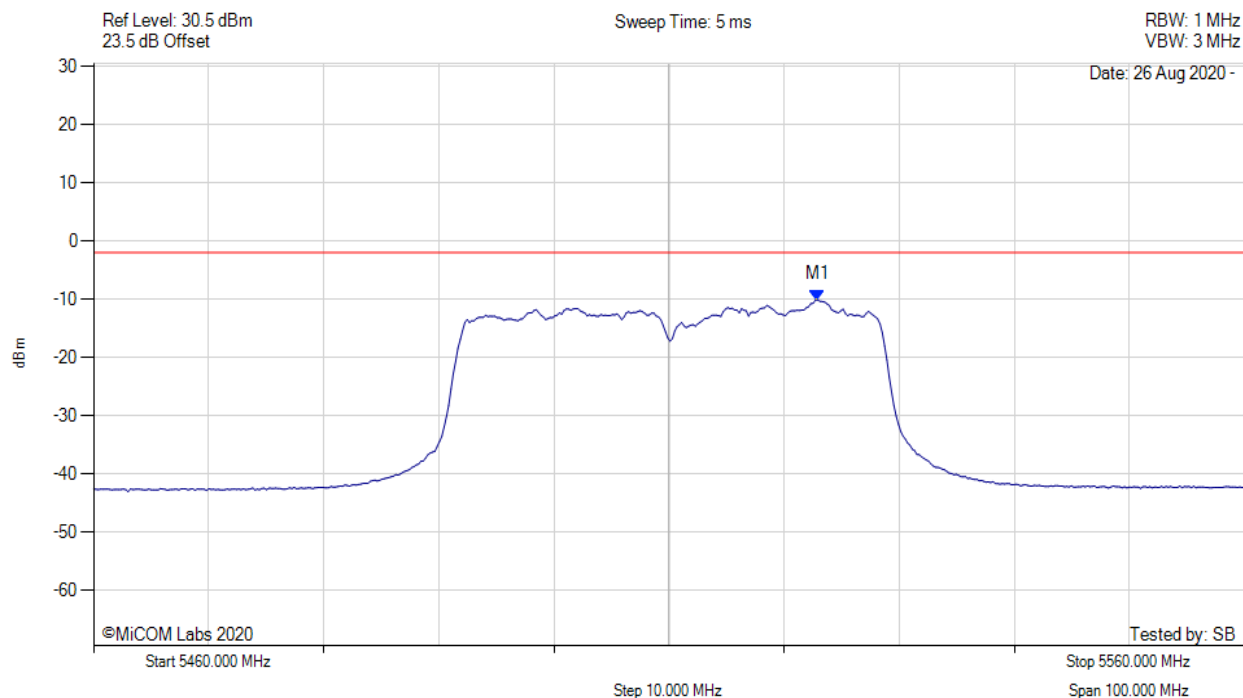
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5498.477 MHz : -13.222 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5510.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



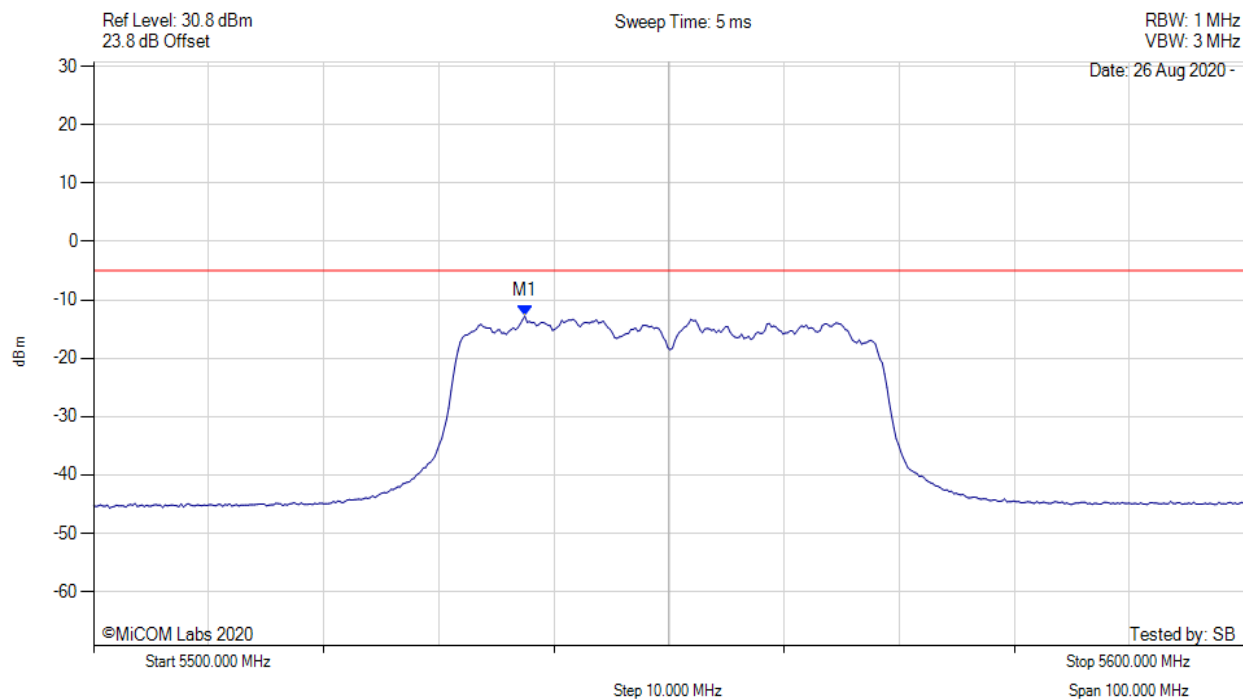
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5522.900 MHz : -10.112 dBm M1 + DCCF : 5522.900 MHz : -9.750 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ -2.0 dBm Margin: -7.8 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



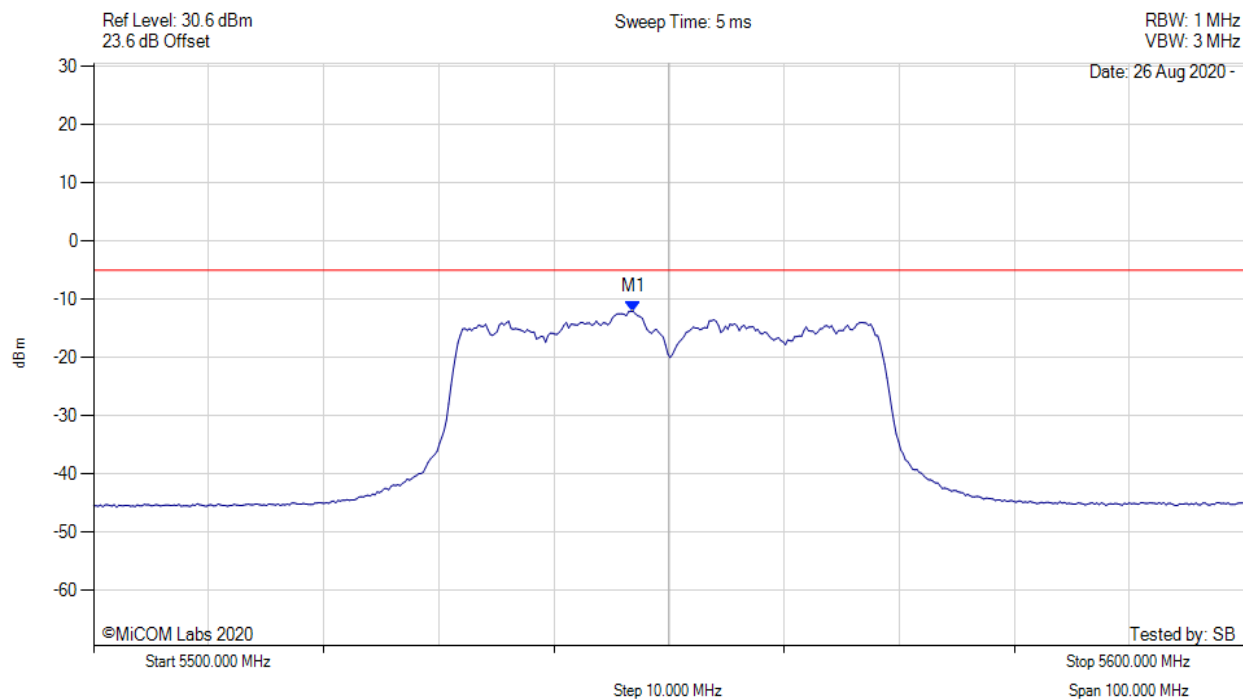
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5537.475 MHz : -12.780 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



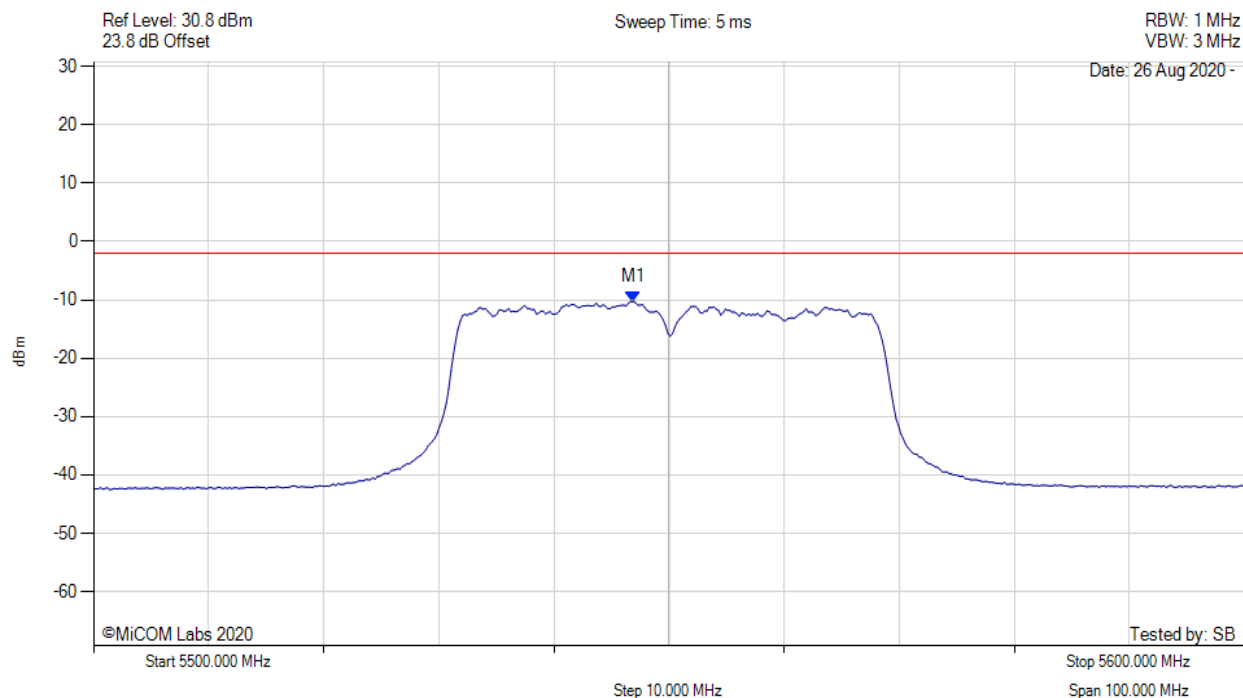
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5546.894 MHz : -12.070 dBm	Channel Frequency: 5550.00 MHz

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5550.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



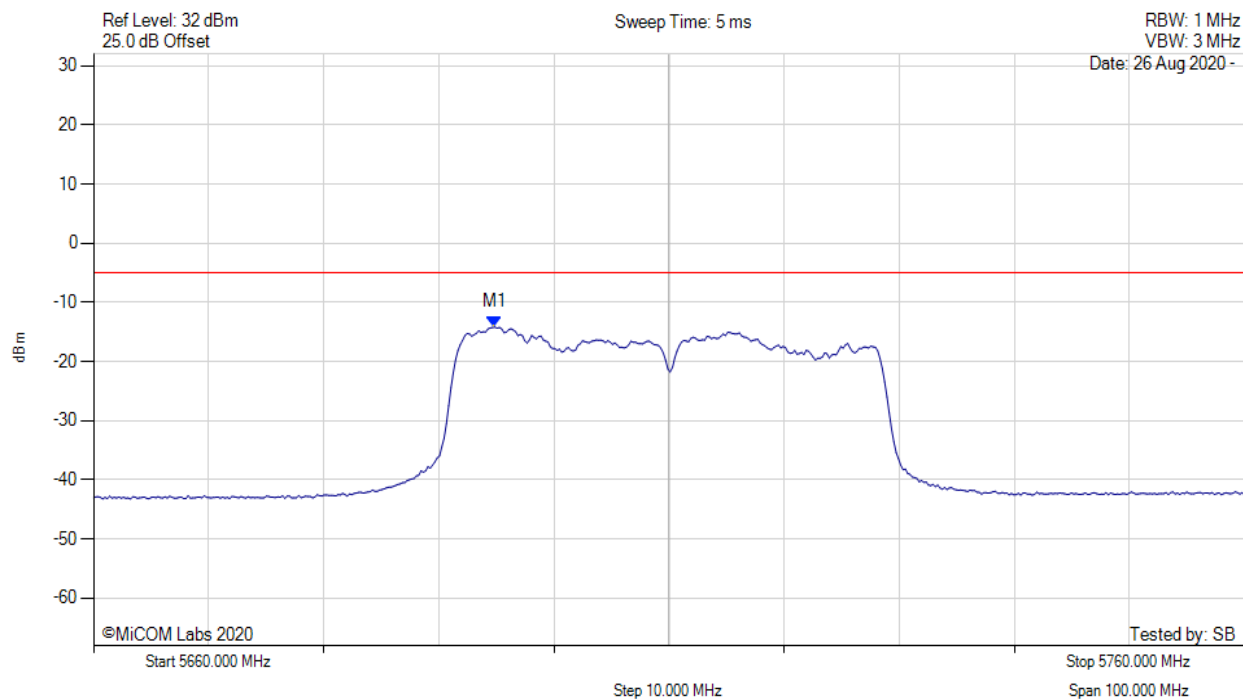
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5546.900 MHz : -10.297 dBm M1 + DCCF : 5546.900 MHz : -9.935 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ -2.0 dBm Margin: -7.9 dB

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain a, Temp: 20, Voltage: 24 Vdc



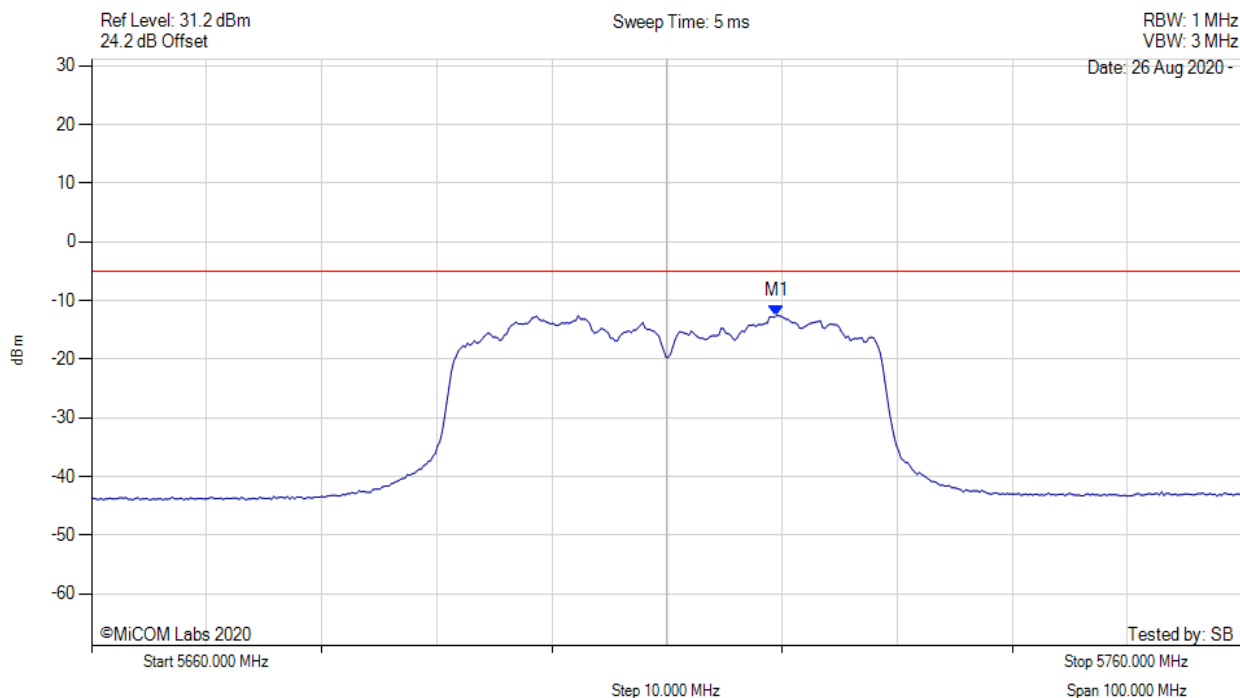
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5694.870 MHz : -14.180 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, Chain b, Temp: 20, Voltage: 24 Vdc



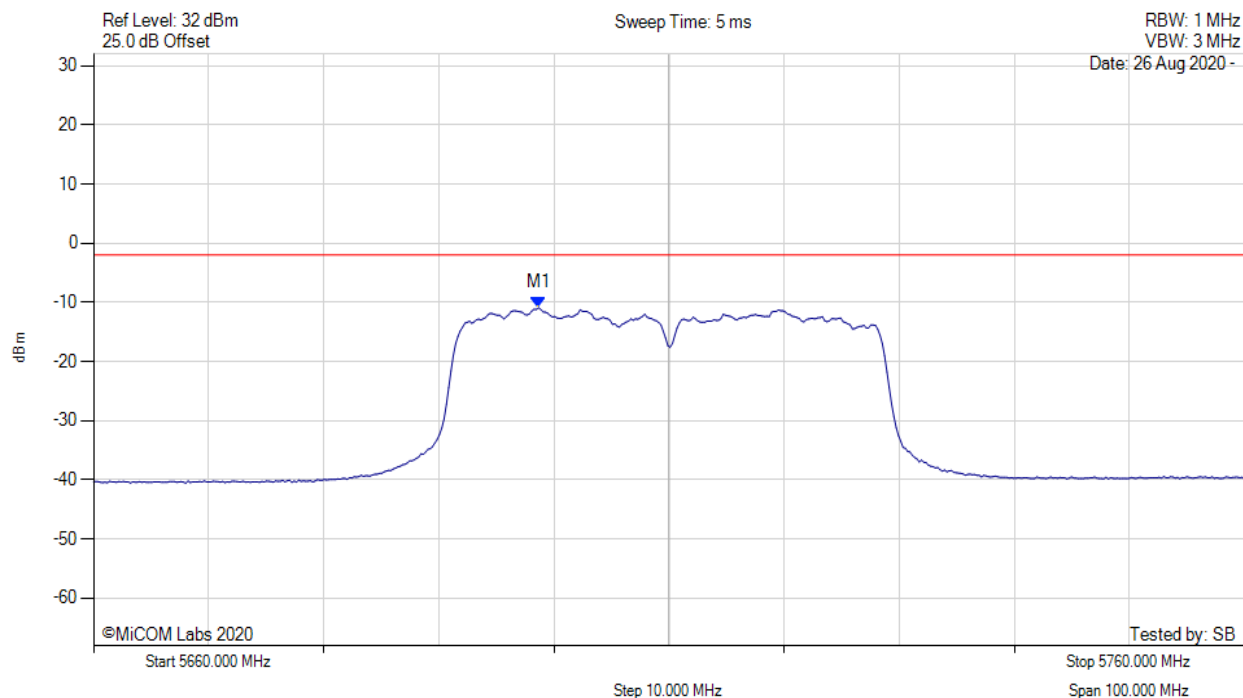
Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5719.519 MHz : -12.545 dBm	Limit: ≤ -5.010 dBm

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POWER SPECTRAL DENSITY



Variant: 802.11n HT-40, Channel: 5710.00 MHz, SUM, Temp: 20, Voltage: 24 Vdc



Analyzer Setup	Marker:Frequency:Amplitude	Test Results
Detector = RMS Sweep Count = 100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5698.700 MHz : -10.928 dBm M1 + DCCF : 5698.700 MHz : -10.566 dBm Duty Cycle Correction Factor : +0.36 dB	Limit: ≤ -2.0 dBm Margin: -8.6 dB

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