Company: Aruba Networks

Test of: APIN0324, APIN0325 Wireless Access Point

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

Report No.: ARUB198-U3a Conducted Rev A

CONDUCTED TEST REPORT

MiCOM Labs

opening wireless markets

CONDUCTED TEST REPORT

FROM

Test of: Aruba Networks APIN0324, APIN0325 Wireless Access Point

to

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

Test Report Serial No.: ARUB198-U3a Conducted Rev A

Note: this report is one of a set of three reports that together address the requirements for FCC 15.407

Report Number	Test Report Type
ARUB198-U3a	Conducted Test Report
ARUB198-U3b	Radiated Test Report
ARUB198-U3c	DFS Test Report

This report supersedes: NONE

Applicant: Aruba Networks
1344 Crossman Ave.
Sunnyvale, California 94089-1113
USA

Product Function: Transmission of voice and data traffic

Issue Date: 21st July 2015

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
575 Boulder Court
Pleasanton California 94566
USA
Phone: +1 (925) 462-0304
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ACCREDITED
TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

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1. ACCREDITATION, LISTINGS & RECOGNITION

1.1. TESTING ACCREDITATION

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2005. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-01.pdf

American Association for Laboratory Accreditation

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communique dated 8 January 2009*).

Presented this 28th day of February 2014.

President & CEO
For the Accreditation Council
Certificate Number 2381.01
Valid to November 30, 2015

For the tests or types of tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

1.2. RECOGNITION

MiCOM Labs, Inc has widely recognized wireless testing capabilities. Our international recognition includes Conformity Assessment Body designation by APEC MRA countries. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Listing #: 102167
Canada	Industry Canada (IC)	FCB	APEC MRA 2	US0159 Listing #: 4143A-2 4143A-3
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	APEC MRA 2	RCB 210
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA	NB 2280
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)	CAB	APEC MRA 1	
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)	CAB	APEC MRA 1	
Singapore	Infocomm Development Authority (IDA)	CAB	APEC MRA 1	
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)	CAB	APEC MRA 1	
Vietnam	Ministry of Communication (MIC)	CAB	APEC MRA 1	

EU MRA – European Union Mutual Recognition Agreement.
NB – Notified Body
APEC MRA – Asia Pacific Economic Community Mutual Recognition Agreement. Recognition agreement under which test lab is accredited to regulatory standards of the APEC member countries.

Phase I - recognition for product testing
Phase II – recognition for both product testing and certification

1.3. PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-02.pdf

American Association for Laboratory Accreditation

Accredited Product Certification Body

A2LA has accredited

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for technical competence as a

Product Certification Body

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 - *Requirements for bodies certifying products, processes and services*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 28th day of February 2014.

President & CEO
For the Accreditation Council
Certificate Number 2381.02
Valid to November 30, 2015

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation

United States of America – Telecommunication Certification Body (TCB)
Industry Canada – Certification Body, CAB Identifier – US0159
Europe – Notified Body (NB), NB Identifier - 2280
Japan – Recognized Certification Body (RCB), RCB Identifier - 210

2. DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft	26th June 2015	
Draft #2	10th July 2015	
Rev A	21st July 2015	Initial Release
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In the above table the latest report revision will replace all earlier versions.

3. TEST RESULT CERTIFICATE

Manufacturer:	Aruba Networks 1344 Crossman Ave. Sunnyvale California 94089-1113 USA	**Tested By:**	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Model:	APIN0324, APIN0325	**Telephone:** **Fax:**	+1 925 462 0304 +1 925 462 0306
Type Of Equipment:	Wireless Access Point		
S/N's:	DD0000489 (Model No.: APIN0324)		
Test Date(s):	11th – 12th June 2015	**Website:**	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC CFR 47 Part 15 Subpart E 15.407 (Conducted RF Data Only)	**EQUIPMENT COMPLIES**

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.

2. Details of test methods used have been recorded and kept on file by the laboratory.

3. Test results apply only to the item(s) tested.

ACCREDITED
TESTING CERT #2381.01

Approved & Released for MiCOM Labs, Inc. by:

Graeme Grieve
Quality Manager MiCOM Labs, Inc.

Gordon Hurst
President & CEO MiCOM Labs, Inc.

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4. REFERENCES AND MEASUREMENT UNCERTAINTY

4.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
I	KDB 662911	Oct 31 2013	Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band
II	KDB 905462 D07 v01	10th June 2015	Test guidance to demonstrate compliance for U-NII devices subject to DFS requirements.
III	KDB 926956 DO1 v01r02	17th October 2014	U-NII Device Transition Plan
IV	KDB 789033 D02 v01	6th June 2014	General UNII Test Procedures New Rules V01
V	A2LA	June 2015	R105 - Requirement's When Making Reference to A2LA Accreditation Status
VI	ANSI C63.10	2013	American National Standard for Testing Unlicensed Wireless Devices
VII	ANSI C63.4	2014	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
VIII	CISPR 22	2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement
IX	ETSI TR 100 028	2001-12	Parts 1 and 2 Electromagnetic compatibility and Radio Spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics
X	FCC 06-96	Jun 3 2006	Memorandum Opinion and Order
XI	FCC 47 CFR Part 15.407	2014	Radio Frequency Devices; Subpart E –Unlicensed National Information Infrastructure Devices
XII	ICES-003	Issue 5 2012	Spectrum Management and Telecommunications; Interference-Causing Equipment Standard. Information Technology Equipment (ITE) – Limits and methods of measurement.
XIII	M 3003	Edition 3 Nov. 2012	Expression of Uncertainty and Confidence in Measurements
XIV	RSS-247, Issue 1	May 2015	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
XV	RSS-Gen, Issue 4	Nov 2014	General Requirements and Information for the Certification of Radiocommunication Equipment
XVI	KDB 644545 D03 v01	August 14th 2014	Guidance for IEEE 802.11ac New Rules
XVII	FCC 47 CFR Part 2.1033	2014	FCC requirements and rules regarding photographs and test setup diagrams.

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4.2. Test and Uncertainty Procedure

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

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5. PRODUCT DETAILS AND TEST CONFIGURATIONS

5.1. Technical Details

Details	Description
Purpose:	Test of the Aruba Networks APIN0324, APIN0325 to FCC CFR 47 Part 15 Subpart E new 15.407. Radio Frequency Devices; Subpart E –Unlicensed National Information Infrastructure Devices
Applicant:	Aruba Networks 1344 Crossman Ave. Sunnyvale California 94089-1113 USA
Manufacturer:	As Applicant
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Test report reference number:	ARUB198-U3a
Date EUT received:	21st April 2015
Standard(s) applied:	FCC CFR 47 Part 15 Subpart E 15.407, RSS-247
Dates of test (from - to):	10th – 21st June 2015
No of Units Tested:	1
Type of Equipment:	802.11 a/b/g/n/ac Wireless Access Point 4x4 Spacial Multiplexing MIMO Configuration
Product Family Name:	Wireless Access Point
Model(s):	APIN0324, APIN0325
Location for use:	Indoor
Declared Frequency Range(s):	5250 - 5350; 5470 – 5725 MHz;
Primary function of equipment:	Transmission of voice and data traffic
Secondary function of equipment:	None Provided
Type of Modulation:	OFDM
EUT Modes of Operation:	802.11a; 802.11ac-80; 802.11n HT-20; 802.11n HT-40;
Declared Nominal Output Power (Ave):	+23 dBm
Transmit/Receive Operation:	Transceiver - Half Duplex
Rated Input Voltage and Current:	AC/ DC adaptor (adaptor NOT sold with unit) 12Vdc
Operating Temperature Range:	Declared Range 0°C to 40°C
ITU Emission Designator:	802.11a: 16M4D1D 802.11ac-80: 75M9D1D 802.11n HT-20: 17M7D1D 802.11n HT-40: 36M2D1D
Equipment Dimensions:	APIN0324: 204mm x 204mm x 55mm / 8.0" x 8.0" x 2.2" (WxDxH) APIN0325: 204mm x 204mm x 35mm / 8.0" x 8.0" x 1.4" (WxDxH)
Weight:	APIN0324: 0.8 kg APIN0325: 0.8 kg
Hardware Rev:	3.0
Software Rev:	3.0

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5.2. Scope Of Test Program

Aruba Networks APIN0324, APIN0325

The scope of the test program was to test the Aruba Networks APIN0324, APIN0325, 802.11 a/b/g/n/ac Wireless Access Point 4x4 Spacial Multiplexing MIMO Configuration configurations in the frequency ranges 5250 - 5350 MHz; 5470 - 5725 MHz (DFS Bands) for compliance against the following specification:

FCC CFR 47 Part 15 Subpart E 15.407
Radio Frequency Devices; Subpart E – Unlicensed National Information Infrastructure Devices

Aruba Networks APIN0324 (External Antenna)

APIN0324 - Top View

Aruba Networks APIN0325 (Integral)

Aruba APIN0325 - Top view

5.3. Equipment Model(s) and Serial Number(s)

Type	Description	Manufacturer	Model	Serial no.	Delivery Date
EUT	Conducted Unit	Aruba Networks	APIN0324	DD0000489	21st April 2015
Support Equipment	Laptop Computer with EUT RF Software	DELL	Latitude E5440	7057172342	21st April 2015

5.4. Antenna Details

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X-Pol	Frequency Band (MHz)
integral	Aruba Networks	APIN0325	Metal Sheet	5.5	3.5	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-1W	OMNI	5.8	6.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-13B	Downtilt OMNI	3.3	6.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-19	OMNI	6.0	6.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-20W	OMNI	2.0	6.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-40	Downtilt OMNI	5.0	3.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-45	Multipolarized	5.0	3.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850
external	Aruba Networks	AP-ANT-48	Multipolarized	8.5	3.0	360	-	5150 – 5250 5250 – 5350 5470 – 5725 5725 - 5850

BF Gain - Beamforming Gain
Dir BW - Directional BeamWidth
X-Pol - Cross Polarization

5.5. Cabling and I/O Ports

Port Type	Max Cable Length	# Of Ports	Screened	Conn Type	Data Type
Ethernet	100m	2	N	RJ-45	Packet Data
RS232	0.5m	1	N	RJ-45	Digital

5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s) (802.11a/b/g/n/ac)	Data Rate with Highest Power MBit/s	Channel Frequency (MHz)		
		Low	Mid	High
5250 - 5350 MHz				
802.11a	6	5,260.00	5,300.00	5,320.00
802.11ac-80	29.3	--	--	5,290.00
802.11n HT-20	6.5	5,260.00	5,300.00	5,320.00
802.11n HT-40	13.5	5,270.00	--	5,310.00
5470 - 5725 MHz				
802.11a	6	5,500.00	5,580.00	5,720.00
802.11ac-80	29.3	5,530.00	5,610.00	5,690.00
802.11n HT-20	6.5	5,500.00	5,580.00	5,720.00
802.11n HT-40	13.5	5,510.00	5,550.00	5,710.00

5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:

1. NONE

5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:

1. NONE

6. TEST SUMMARY

List of Measurements

Test Header	Result	Data Link
(a) Peak Transmit Power	Complies	View Data
(a) 26 dB & 99% Bandwidth	Complies	View Data
(a)(5) Power Spectral Density	Complies	View Data
(h)(1) Transmit Power Control (TPC)	Not Tested	-

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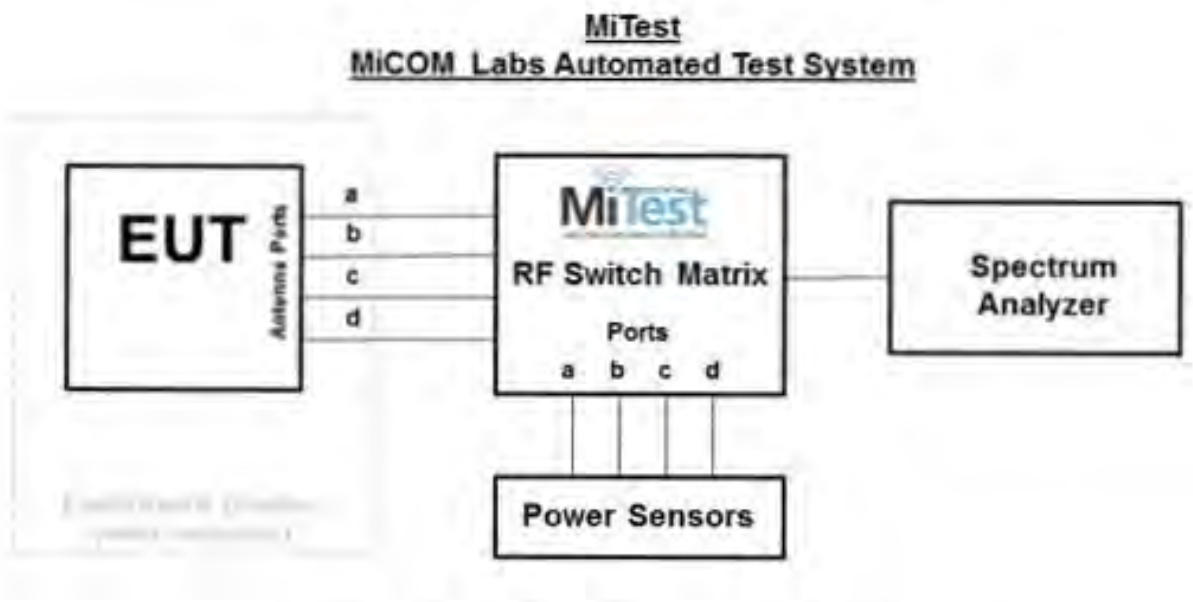
7. TEST EQUIPMENT CONFIGURATION(S)

7.1. Conducted

Conducted RF Emission Test Set-up
The following tests were performed using the conducted test set-up shown in the diagram below.
Peak Transmit Power, report section 9.1
2. 26 dB & 99% Bandwidth, report section 9.2
3. Power Spectral Density, report section 9.3



Conducted Test Measurement Setup

A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
158	Barometer/Thermometer	Control Company	4196	E2846	04 Dec 2015
193	Receiver 20 Hz to 7 GHz	Rhode & Schwarz	ESI 7	838496/007	14 Jan 2016
249	Resistance Thermometer	Thermotronics	GR2105-02	9340 #2	30 Oct 2015
287	Rohde & Schwarz 40 GHz Receiver	Rhode & Schwarz	ESIB40	100201	31 Jul 2015
361	Desktop for RF#1, Labview Software installed	Dell	Vostro 220	WS RF#1	Not Required
378	Rohde & Schwarz 40 GHz Receiver with Generator	Rhode & Schwarz	ESIB40	100107/040	17 Jul 2015
380	4x4 RF Switch Box	MiCOM Labs	MiTest RF Switch Box	MIC001	30 Jun 2015
390	USB Power Head 50MHz - 24GHz -60 to +20dBm	Agilent	U2002A	MY50000103	17 Oct 2015
398	Test Software	MiCOM	MiTest ATS	Version 1.9	Not Required
405	DC Power Supply 0-60V	Agilent	6654A	MY4001826	Cal when used
408	USB to GPIB interface	National Instruments	GPIB-USB HS	14C0DE9	Not Required
436	USB Wideband Power Sensor	Boonton	55006	8731	31 Jul 2015
437	USB Wideband Power Sensor	Boonton	55006	8759	31 Jul 2015
445	PoE Injector	D-Link	DPE-101GL	QTAH1E2000625	Not Required
75	Environmental Chamber	Thermatron	SE-300-2-2	27946	28 Nov 2015
RF#1 GPIB#1	GPIB cable to Power Supply	HP	GPIB	None	Not Required
RF#1 SMA#1	EUT to Mitest box port 1	Flexco	SMA Cable port1	None	30 Jun 2015
RF#1 SMA#2	EUT to Mitest box port 2	Flexco	SMA Cable port2	None	30 Jun 2015
RF#1 SMA#3	EUT to Mitest box port 3	Flexco	SMA Cable port3	None	30 Jun 2015
RF#1 SMA#4	EUT to Mitest box port 4	Flexco	SMA Cable port4	None	30 Jun 2015
RF#1 SMA#SA	Mitest box to SA	Flexco	SMA Cable SA	None	30 Jun 2015
RF#1 USB#1	USB Cable to Mitest Box	Dynex	USB Cable	None	Not Required

8. MEASUREMENT AND PRESENTATION OF TEST DATA

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

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

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

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

9. TEST RESULTS

9.1. Peak Transmit Power

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

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

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

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

Limits Maximum Conducted Output Power

Operating Frequency Band 5150-5250 MHz

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

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

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

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

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

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

Operating Frequency Band 5725 – 5850 MHz

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

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Operating Frequency Band 5250 - 5350 and 5470 – 5725 MHz

15. 407 (a)(2)

Maximum Conducted Power

Mode	Frequency Range (MHz)	Maximum 26 dB Bandwidth (MHz)	11 + 10 Log (B) (dBm)	Maximum Power Limit (dBm)
a	5250 – 5350	19.170	23.83	+23.83
HT-20		20.000	24.01	+24.00
HT-40		43.830	27.42	+24.00
ac-80		90.000	30.54	+24.00
a	5470 – 5725	19.170	23.83	+23.83
HT-20		20.330	24.08	+24.00
HT-40		41.500	27.18	+24.00
ac-80		91.300	30.60	+24.00

Maximum Transmit (Conducted) Power Limits

Maximum Limit 5250 – 5350 and 5470 – 5725 MHz: +24 dBm (+30 dBm/EIRP, 6 dBi antenna)

EUT: Indoor wireless router
Antenna gain for both frequency bands: 4.7 dBi

Beamforming Gain
5250 – 5350 and 5470 – 5725 MHz: 3.00 dB

Maximum conducted power = +24 – (4.7 + 3.0 – 6) = +22.30 dBm

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Equipment Configuration for Peak Transmit Power

Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5260.0	13.45	12.93	12.87	12.62	19.18	19.000	22.13	-2.95	13.50
5300.0	13.63	13.24	13.02	12.79	19.38	19.080	22.13	-2.75	13.50
5320.0	13.09	12.49	12.49	12.66	18.89	18.920	22.13	-3.24	13.00

Traceability to Industry Recognized Test Methodologies

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

Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5290.0	15.99	15.64	15.51	15.65	22.13	93.300	22.30	-0.17	16.00

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5260.0	13.60	13.00	12.93	12.90	19.23	20.000	22.30	-3.07	13.50
5300.0	13.85	13.31	13.26	13.01	19.48	19.920	22.30	-2.82	13.50
5320.0	13.25	12.67	12.62	12.88	18.97	19.920	22.30	-3.33	13.00

Traceability to Industry Recognized Test Methodologies

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

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5270.0	15.93	15.85	15.57	15.76	21.98	40.830	22.30	-0.32	16.00
5310.0	15.73	15.41	15.17	15.28	21.60	43.830	22.30	-0.70	15.50

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power

Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5500.0	13.77	12.74	12.66	12.92	19.24	19.170	22.13	-2.89	13.50
5580.0	14.07	12.78	12.71	13.24	19.43	19.000	22.13	-2.70	13.50
5720.0	13.80	12.67	12.30	13.08	19.20	19.000	22.13	-2.93	13.50

Traceability to Industry Recognized Test Methodologies

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

Equipment Configuration for Peak Transmit Power

Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5530.0	16.13	14.92	14.86	15.41	21.79	91.300	22.30	-0.51	16.00
5610.0	16.56	15.28	15.01	16.12	22.22	90.700	22.30	-0.08	16.00
5690.0	16.52	15.03	15.06	16.04	22.14	88.000	22.30	-0.16	16.00

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5500.0	13.67	12.78	12.71	12.99	19.16	20.330	22.30	-3.14	13.50
5580.0	13.99	12.82	12.62	13.25	19.31	19.920	22.30	-2.99	13.50
5720.0	13.74	12.72	12.35	13.06	19.11	19.830	22.30	-3.19	13.50

Traceability to Industry Recognized Test Methodologies

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

Equipment Configuration for Peak Transmit Power

Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Conducted Output Power (dBm) Port(s)				Calculated Total Power + DCCF	Maximum 26 dB Bandwidth	Limit	Margin	EUT Power Setting
MHz	a	b	c	d	Σ Port(s) dBm	MHz	dBm	dBm	
5510.0	16.34	15.30	15.13	15.63	21.82	43.000	22.30	-0.48	16.00
5550.0	16.56	15.13	15.19	15.77	21.90	41.330	22.30	-0.40	16.00
5710.0	16.39	15.36	14.87	15.83	21.85	41.500	22.30	-0.45	16.00

Traceability to Industry Recognized Test Methodologies

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

DCCF - Duty Cycle Correction Factor

9.2. 26 dB & 99% Bandwidth

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

Test Procedure for 26 dB and 99% Bandwidth Measurement
The bandwidth at 26 dB and 99 % is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate center frequency. The Resolution Bandwidth was set to approximately 1% of the emission bandwidth.
Testing was performed under ambient conditions at nominal voltage. Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured and reported.

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

Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	19.000	18.420	18.670	18.830	19.000	18.420		
5300.0	19.080	18.830	18.750	18.830	19.080	18.750		
5320.0	18.920	18.670	18.830	18.830	18.920	18.670		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	16.365	16.243	16.337	16.348	16.365	16.243		
5300.0	16.376	16.335	16.372	16.395	16.395	16.335		
5320.0	16.360	16.336	16.371	16.403	16.403	16.336		

Traceability to Industry Recognized Test Methodologies

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	86.300	90.300	90.000	82.000	90.300	82.000		
Test Frequency	**Measured 99% Bandwidth (MHz)**				**99% Bandwidth (MHz)**			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5290.0	75.901	75.897	75.689	75.413	75.901	75.413		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	19.830	19.330	20.000	19.580	20.000	19.330		
5300.0	19.750	19.750	19.920	19.920	19.920	19.750		
5320.0	19.920	19.830	19.830	19.920	19.920	19.830		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5260.0	17.555	17.455	17.535	17.545	17.555	17.455		
5300.0	17.574	17.513	17.575	17.603	17.603	17.513		
5320.0	17.559	17.535	17.564	17.621	17.621	17.535		

Traceability to Industry Recognized Test Methodologies

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	40.830	40.670	39.330	39.170	40.830	39.170		
5310.0	43.830	39.830	39.330	39.170	43.830	39.170		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5270.0	36.162	36.217	36.133	35.944	36.217	35.944		
5310.0	36.163	36.217	36.084	35.941	36.217	35.941		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	18.750	19.170	18.920	18.920	19.170	18.750		
5580.0	18.580	19.000	18.750	18.580	19.000	18.580		
5720.0	19.000	18.670	18.670	18.580	19.000	18.580		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	a	b	c	d	Highest	Lowest		
5500.0	16.353	16.399	16.402	16.431	16.431	16.353		
5580.0	16.344	16.453	16.423	16.365	16.453	16.344		
5720.0	16.370	16.415	16.411	16.326	16.415	16.326		

Traceability to Industry Recognized Test Methodologies

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth			
Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	91.300	90.300	85.000	84.300	91.300	84.300		
5610.0	90.700	89.000	84.700	83.700	90.700	83.700		
5690.0	88.000	87.000	84.300	85.300	88.000	84.300		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5530.0	76.088	75.747	75.531	75.703	76.088	75.531		
5610.0	75.976	75.599	75.494	75.603	75.976	75.494		
5690.0	75.854	75.581	75.406	75.683	75.854	75.406		

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	19.830	19.920	20.330	20.000	20.330	19.830		
5580.0	19.750	19.920	19.920	19.750	19.920	19.750		
5720.0	19.830	19.830	19.830	19.500	19.830	19.500		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5500.0	17.557	17.583	17.601	17.625	17.625	17.557		
5580.0	17.542	17.635	17.613	17.552	17.635	17.542		
5720.0	17.570	17.604	17.595	17.496	17.604	17.496		

Traceability to Industry Recognized Test Methodologies

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

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

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Equipment Configuration for 26 dB & 99% Occupied Bandwidth

Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured 26 dB Bandwidth (MHz)				26 dB Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	43.000	39.330	41.170	39.170	43.000	39.170		
5550.0	41.330	40.170	39.330	40.000	41.330	39.330		
5710.0	41.500	39.670	40.000	40.500	41.500	39.670		

Test Frequency	Measured 99% Bandwidth (MHz)				99% Bandwidth (MHz)			
	Port(s)							
MHz	**a**	**b**	**c**	**d**	**Highest**	**Lowest**		
5510.0	36.214	36.067	36.006	35.920	36.214	35.920		
5550.0	36.187	35.952	36.023	36.086	36.187	35.952		
5710.0	36.269	36.119	35.959	36.161	36.269	35.959		

Traceability to Industry Recognized Test Methodologies

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

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

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9.3. Power Spectral Density

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

Test Procedure for Power Spectral Density
The in-band power spectral density was measured using the test technique specified in KDB 789033. A 1 MHz measurement bandwidth was implemented for the analyzer sweep. Once the sweep is complete the analyzer trace data is downloaded and used for post processing purposes.
Where the device operated with multiple antenna ports i.e. MIMO device, each port was measured separately. The Peak Power Spectral Density is the highest level found across the emission bandwidth. With multiple antenna port measurements the numerical analyzer data from each port is summed (å) and a link to this additional graphic is provided.

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

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

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

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

Limits Power Spectral Density

Operating Frequency Band 5150-5250 MHz

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

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

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

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

Operating Frequency Band 5250-5350 and 5470 – 5725 MHz

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

Operating Frequency Band 5725 – 5850 MHz

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6.00 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	3.094	3.203	2.967	3.080	9.114	9.3	-0.2
5300.0	3.109	3.604	3.152	2.827	9.253	9.3	-0.1
5320.0	2.806	3.227	2.670	2.881	8.947	9.3	-0.4

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11ac-80	**Duty Cycle (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5290.0	-1.123	-0.611	-0.710	-0.489	5.534	9.3	-3.8

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-20	**Duty Cycle (%):**	98.0
Data Rate:	6.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5260.0	3.036	3.106	2.953	2.949	8.959	9.3	-0.4
5300.0	3.159	3.629	3.171	2.718	9.186	9.3	-0.1
5320.0	2.676	3.061	2.569	2.714	8.742	9.3	-0.6

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5270.0	2.291	3.012	2.417	2.553	8.612	9.3	-0.7
5310.0	2.047	2.523	1.864	2.333	8.189	9.3	-1.1

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11a	**Duty Cycle (%):**	96.0
Data Rate:	6 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5500.0	3.549	3.073	2.547	2.798	8.946	9.3	-0.4
5580.0	3.838	2.612	2.694	3.504	9.187	9.3	-0.1
5720.0	3.057	2.798	2.747	2.861	8.888	9.3	-0.4

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 (%):**	91.0
Data Rate:	29.30 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.41 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5530.0	-0.969	-1.310	-1.305	-0.507	4.861	9.3	-4.5
5610.0	-0.816	-1.495	-1.385	-0.154	5.037	9.3	-4.3
5690.0	-0.704	-0.951	-1.150	-0.756	5.129	9.3	-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).

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-20	**Duty Cycle (%):**	98.0
Data Rate:	6.5 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.09 dB)	Limit	Margin
MHz	**a**	**b**	**c**	**d**	**dBm/MHz**	**dBm/MHz**	**dB**
5500.0	3.478	3.109	2.480	2.817	8.816	9.3	-0.5
5580.0	3.844	2.701	2.700	3.496	9.078	9.3	-0.2
5720.0	3.167	2.845	2.745	2.934	8.762	9.3	-0.6

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

DCCF - Duty Cycle Correction Factor

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

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Equipment Configuration for Power Spectral Density			
Variant:	802.11n HT-40	**Duty Cycle (%):**	96.0
Data Rate:	13.50 MBit/s	**Antenna Gain (dBi):**	4.70
Modulation:	OFDM	**Beam Forming Gain (Y)(dB):**	3.00
TPC:	Not Applicable	**Tested By:**	CC
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Power Spectral Density Port(s) (dBm/MHz)				Amplitude Summation + DCCF (+0.18 dB)	Limit	Margin
MHz	a	b	c	d	dBm/MHz	dBm/MHz	dB
5510.0	2.766	2.288	1.774	2.668	8.300	9.3	-1.0
5550.0	2.885	2.161	1.819	2.648	8.397	9.3	-0.9
5710.0	2.229	2.078	1.870	2.530	8.130	9.3	-1.2

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

DCCF - Duty Cycle Correction Factor

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

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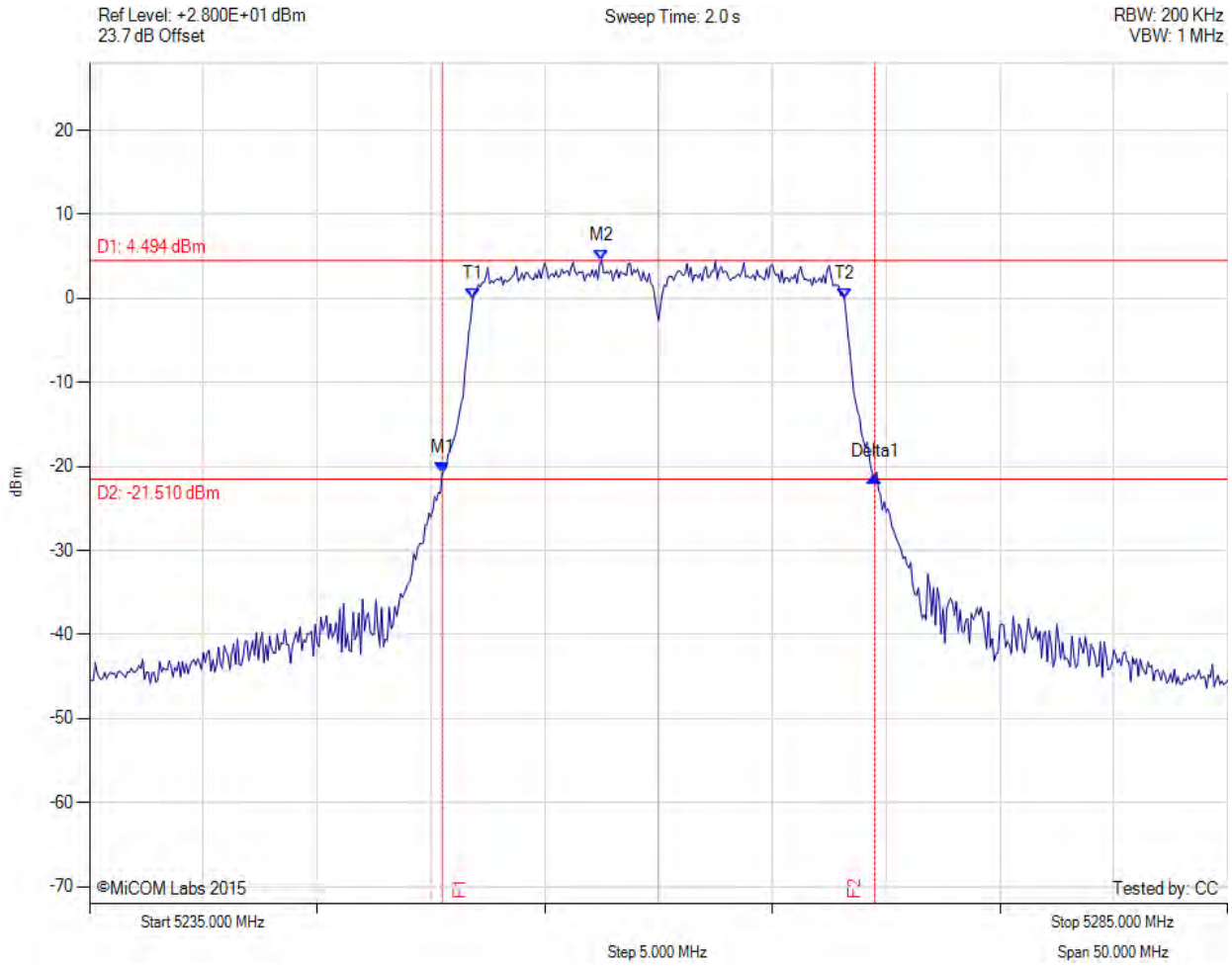
A. APPENDIX - GRAPHICAL IMAGES

A.1. 26 dB & 99% Bandwidth

26 dB & 99% BANDWIDTH

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

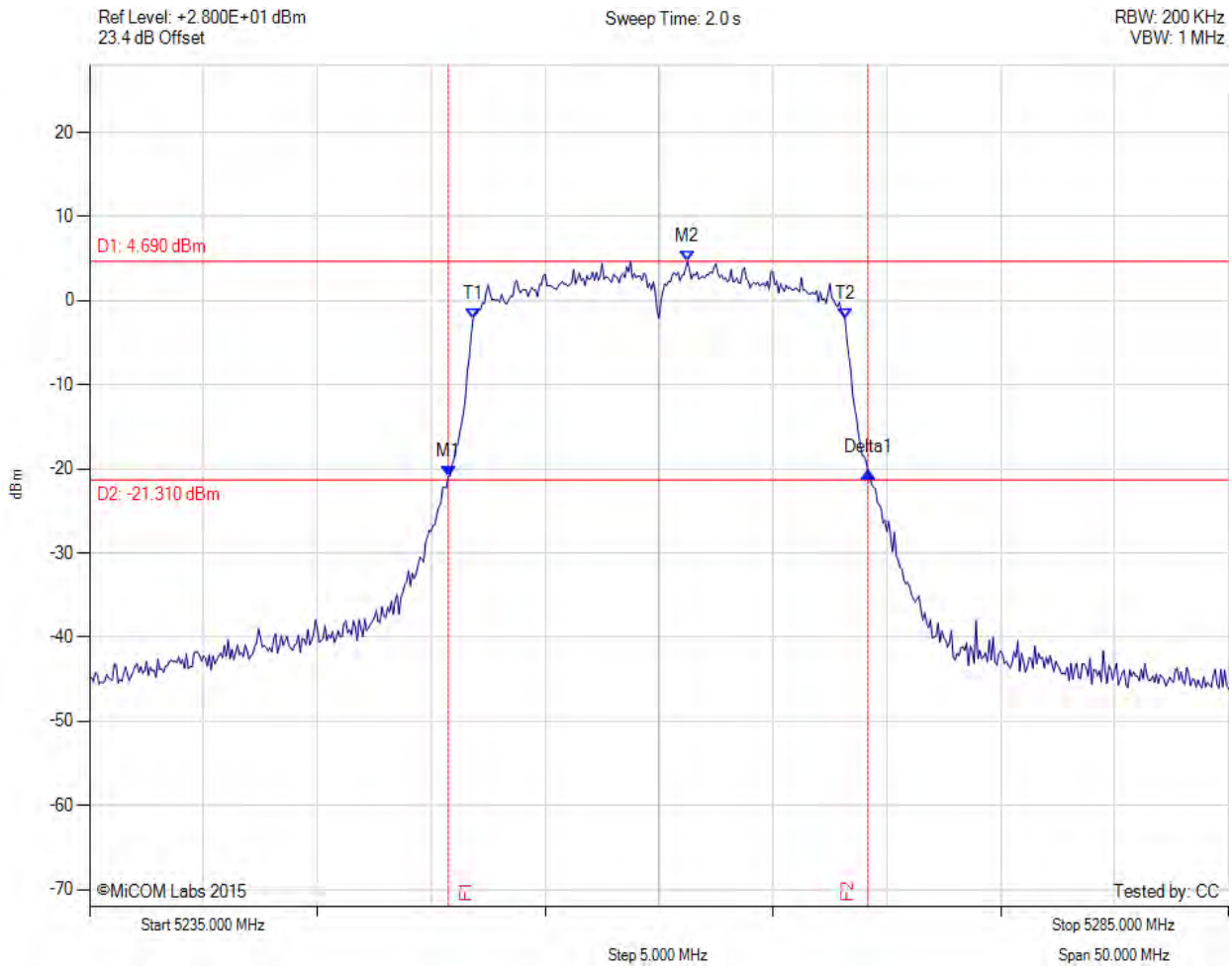


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.500 MHz : -20.767 dBm M2 : 5257.500 MHz : 4.494 dBm Delta1 : 19.000 MHz : -0.489 dB T1 : 5251.833 MHz : -0.094 dBm T2 : 5268.167 MHz : 0.029 dBm OBW : 16.365 MHz	Measured 26 dB Bandwidth: 19.000 MHz Measured 99% Bandwidth: 16.365 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

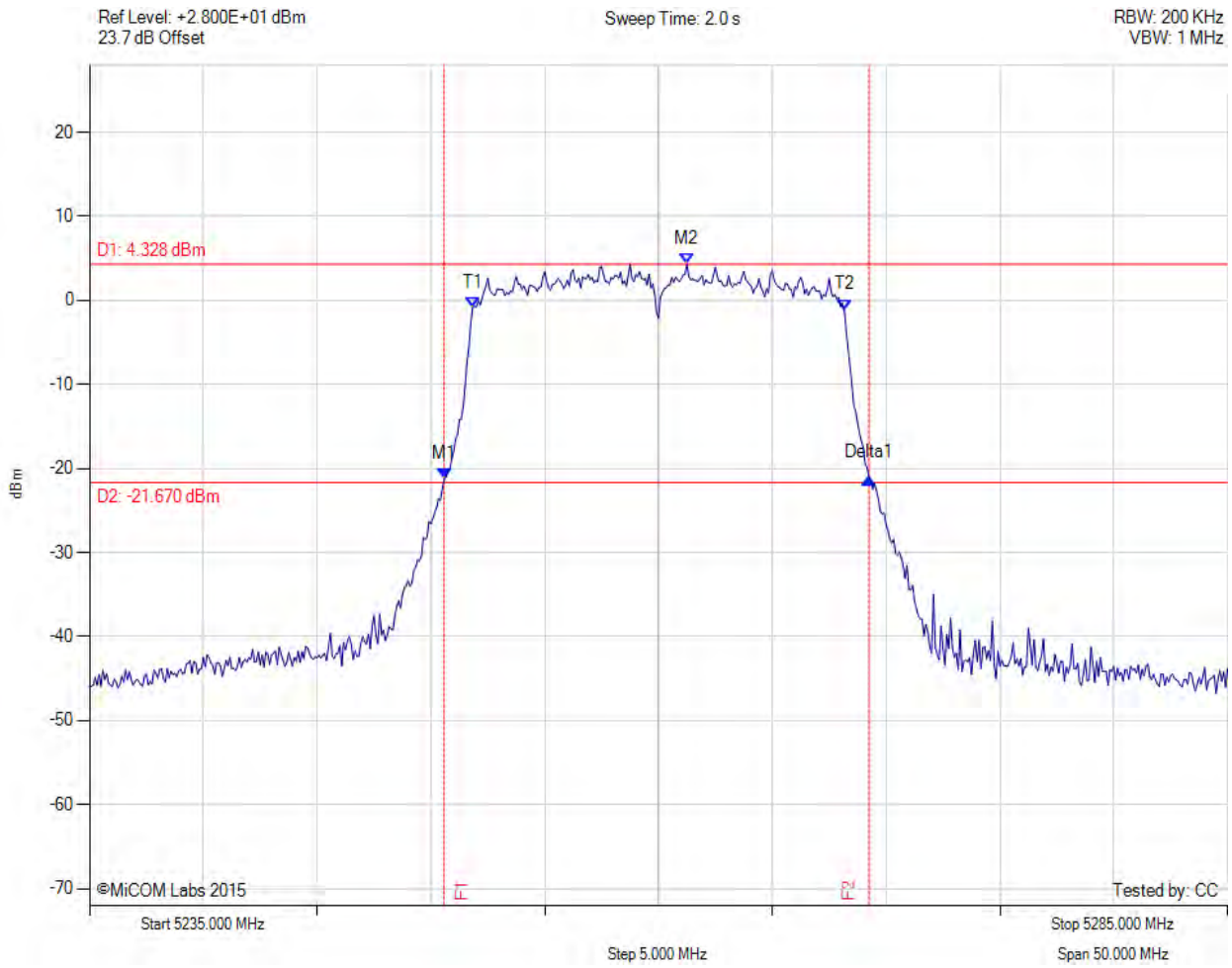


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.750 MHz : -20.827 dBm M2 : 5261.250 MHz : 4.690 dBm Delta1 : 18.420 MHz : 0.469 dB T1 : 5251.833 MHz : -2.224 dBm T2 : 5268.167 MHz : -2.093 dBm OBW : 16.243 MHz	Measured 26 dB Bandwidth: 18.420 MHz Measured 99% Bandwidth: 16.243 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

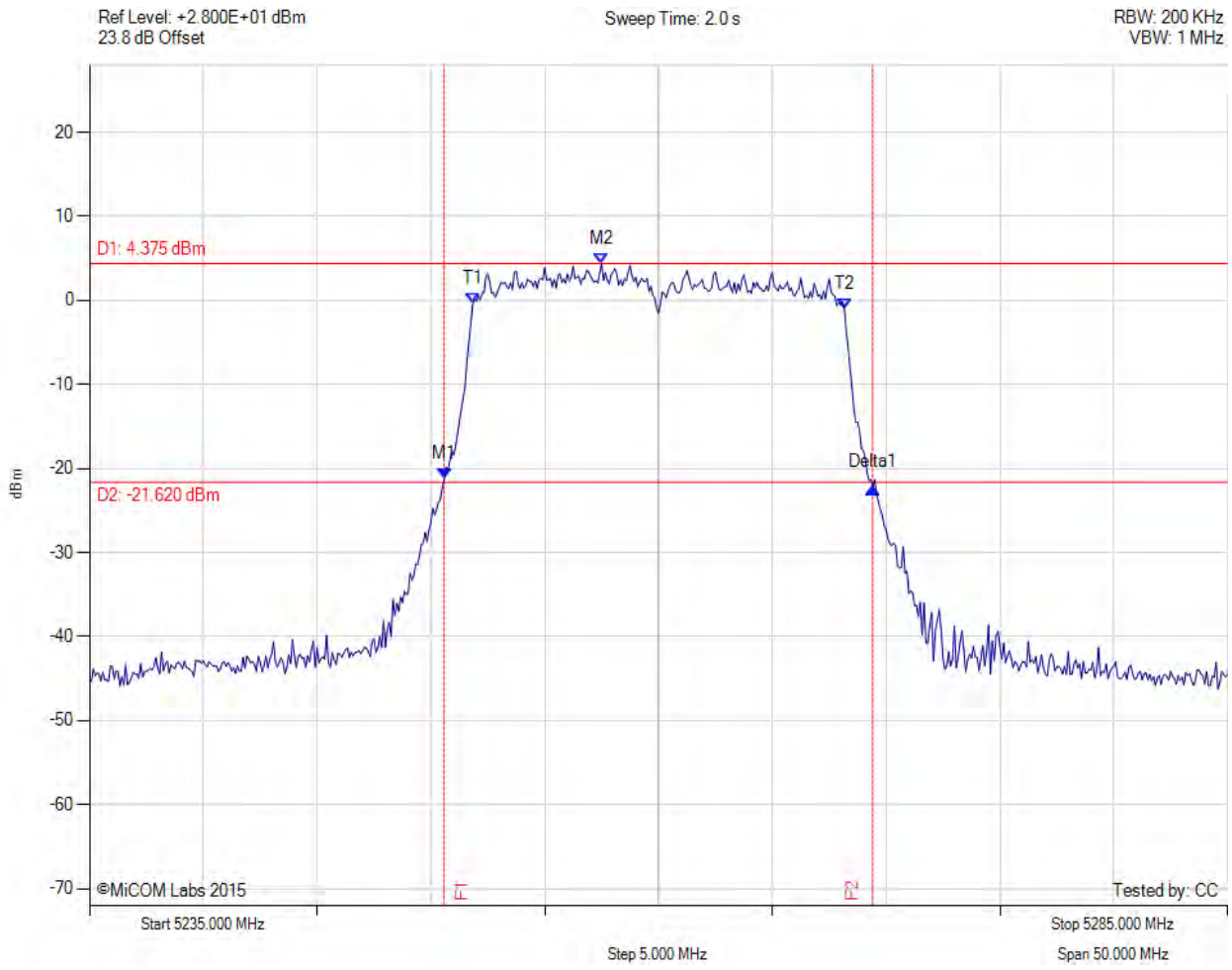


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.580 MHz : -21.216 dBm M2 : 5261.250 MHz : 4.328 dBm Delta1 : 18.670 MHz : 0.091 dB T1 : 5251.833 MHz : -0.784 dBm T2 : 5268.167 MHz : -1.098 dBm OBW : 16.337 MHz	Measured 26 dB Bandwidth: 18.670 MHz Measured 99% Bandwidth: 16.337 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

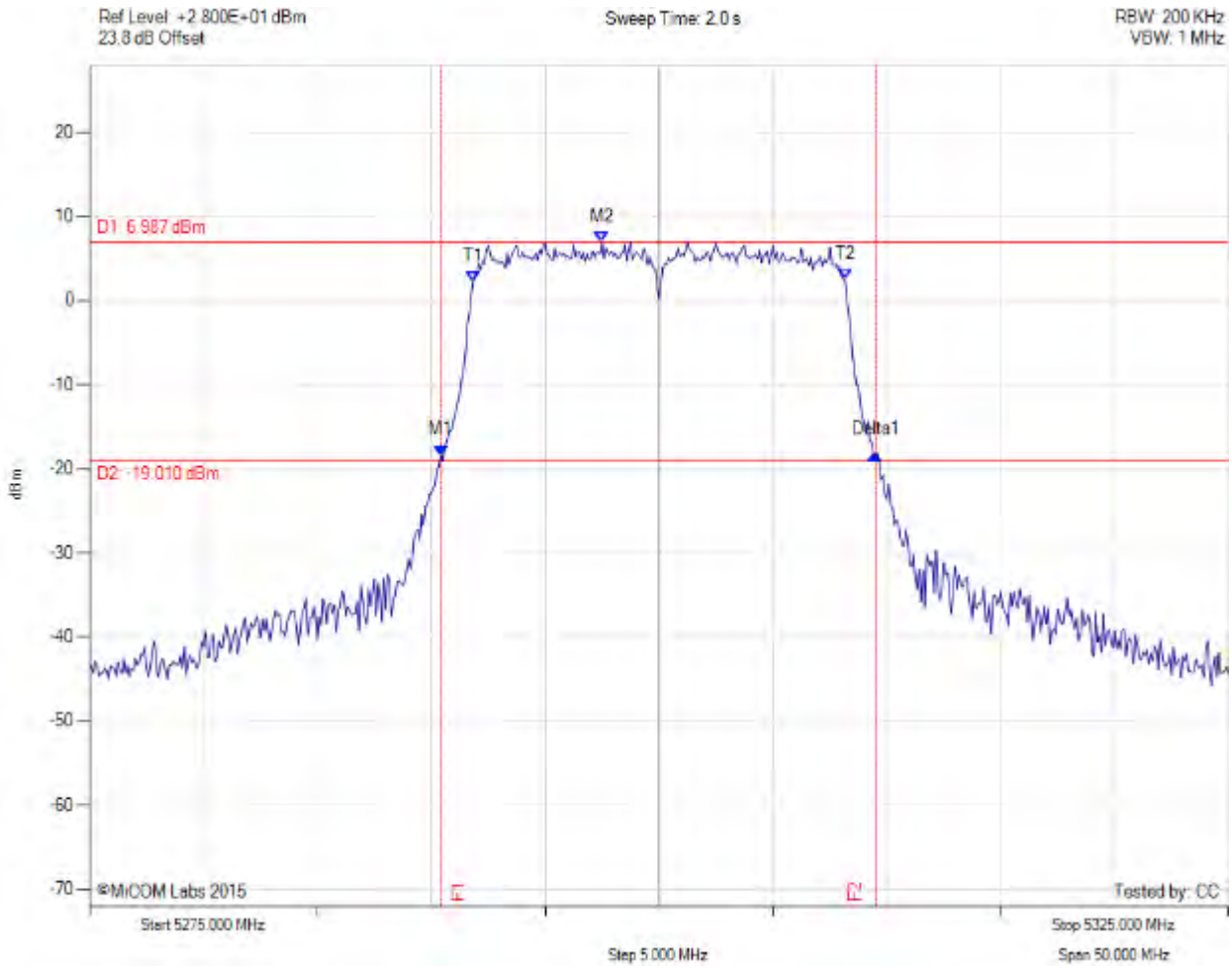


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.580 MHz : -21.277 dBm M2 : 5257.500 MHz : 4.375 dBm Delta1 : 18.830 MHz : -1.003 dB T1 : 5251.833 MHz : -0.431 dBm T2 : 5268.167 MHz : -0.953 dBm OBW : 16.348 MHz	Measured 26 dB Bandwidth: 18.830 MHz Measured 99% Bandwidth: 16.348 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

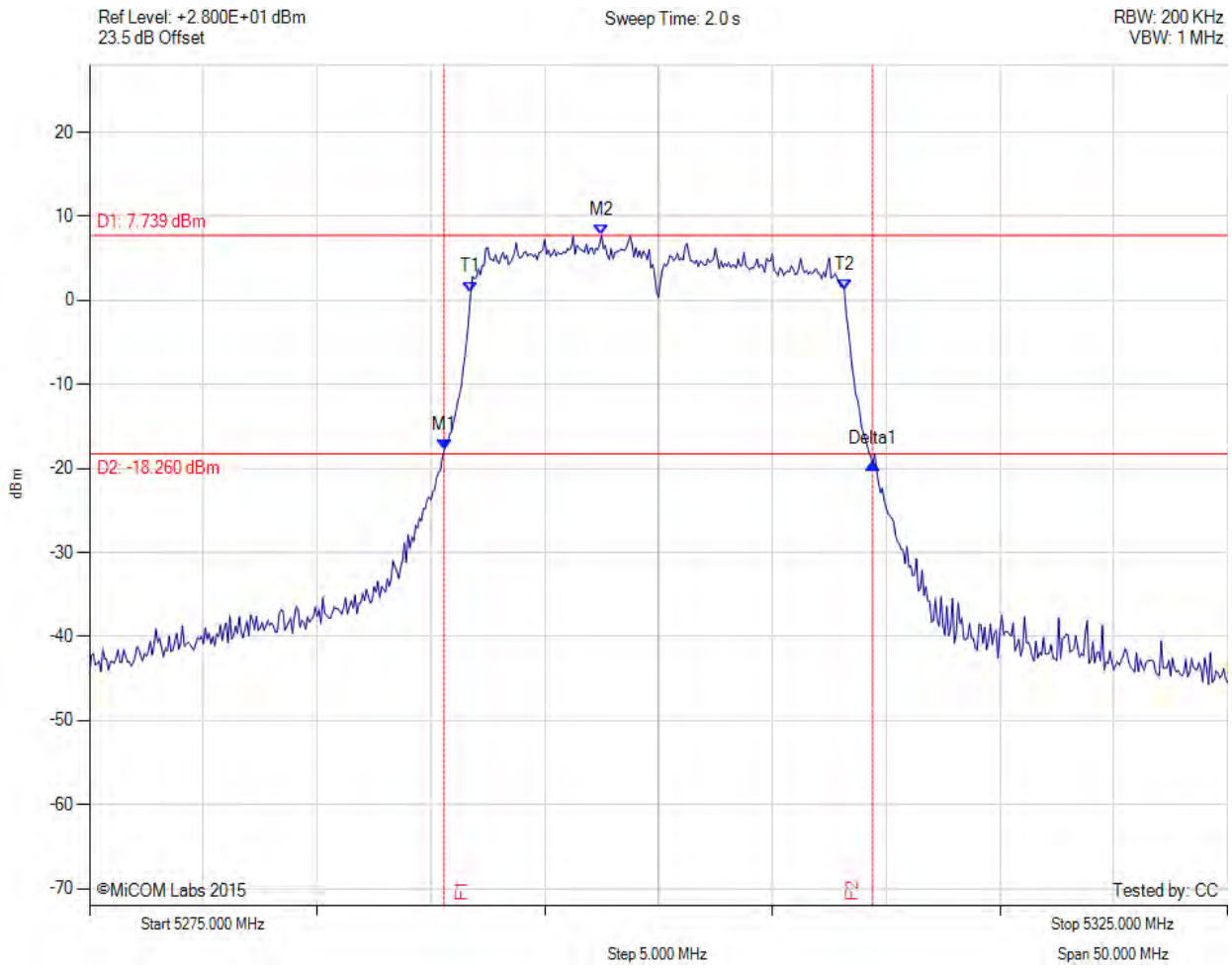


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.420 MHz : -18.366 dBm M2 : 5297.500 MHz : 6.987 dBm Delta1 : 19.080 MHz : 0.026 dB T1 : 5291.833 MHz : 2.261 dBm T2 : 5308.167 MHz : 2.528 dBm OBW : 16.376 MHz	Measured 26 dB Bandwidth: 19.080 MHz Measured 99% Bandwidth: 16.376 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

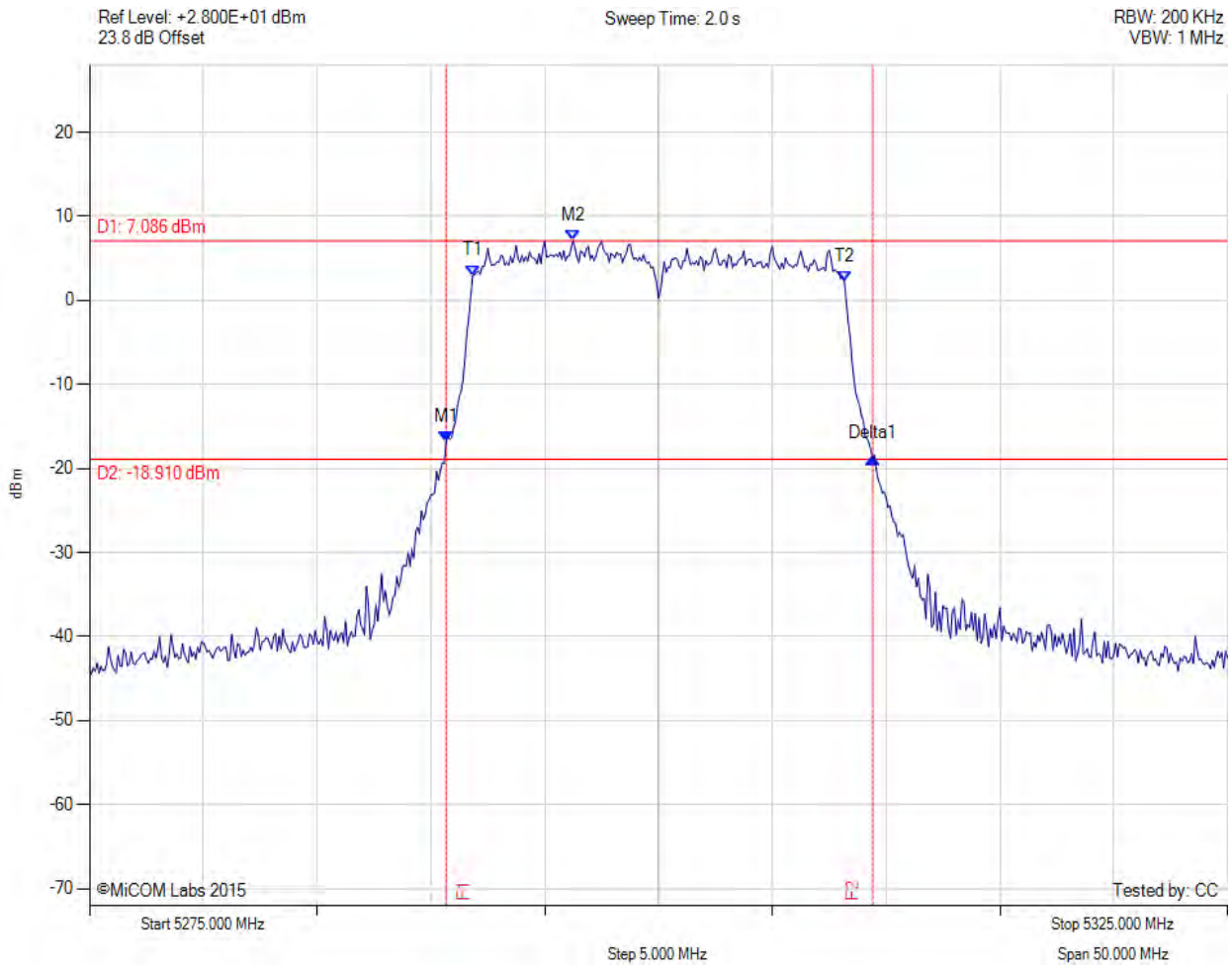


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.580 MHz : -17.776 dBm M2 : 5297.500 MHz : 7.739 dBm Delta1 : 18.830 MHz : -1.695 dB T1 : 5291.750 MHz : 1.018 dBm T2 : 5308.167 MHz : 1.276 dBm OBW : 16.335 MHz	Measured 26 dB Bandwidth: 18.830 MHz Measured 99% Bandwidth: 16.335 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

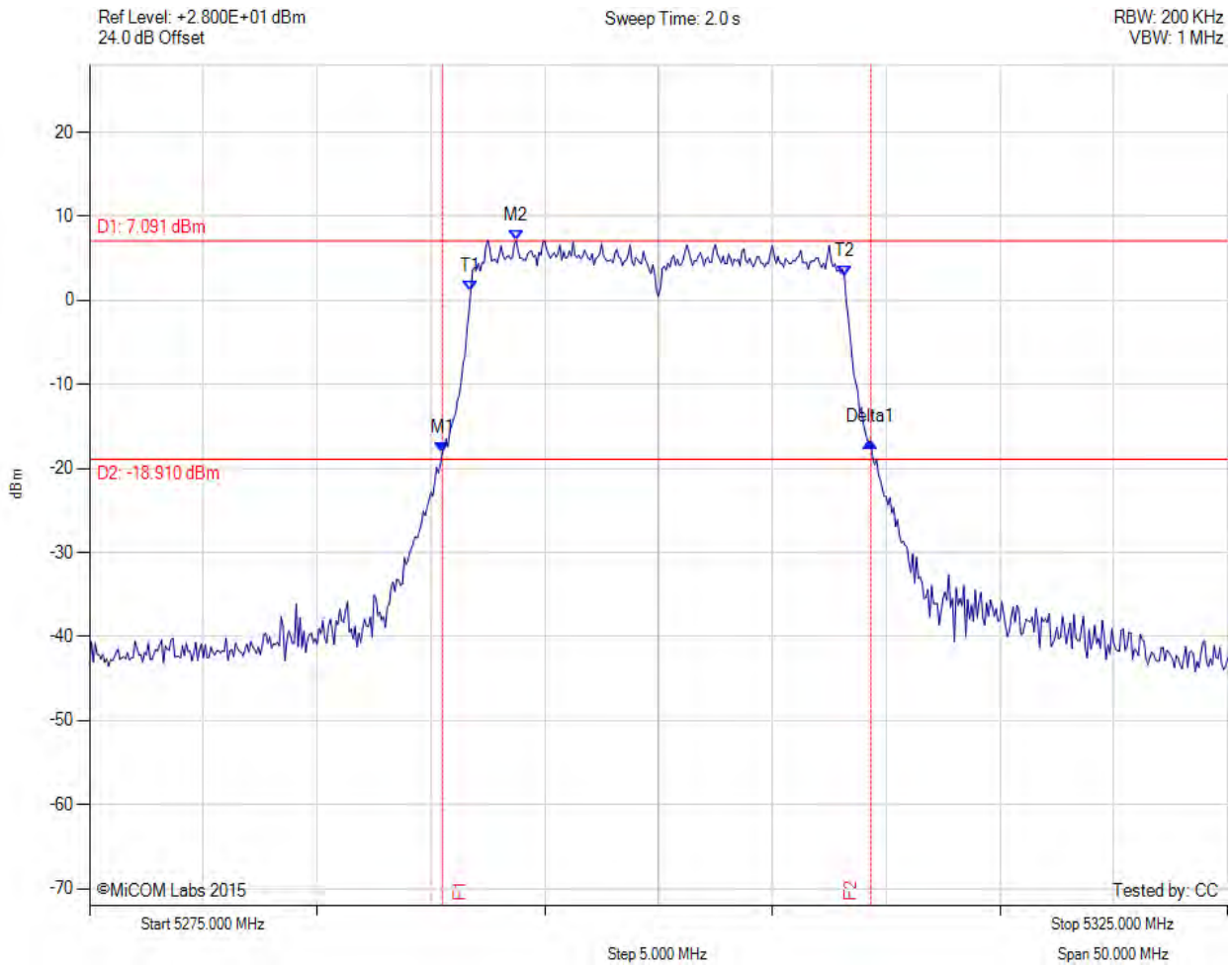


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.670 MHz : -16.779 dBm M2 : 5296.250 MHz : 7.086 dBm Delta1 : 18.750 MHz : -2.015 dB T1 : 5291.833 MHz : 2.971 dBm T2 : 5308.167 MHz : 2.258 dBm OBW : 16.372 MHz	Measured 26 dB Bandwidth: 18.750 MHz Measured 99% Bandwidth: 16.372 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

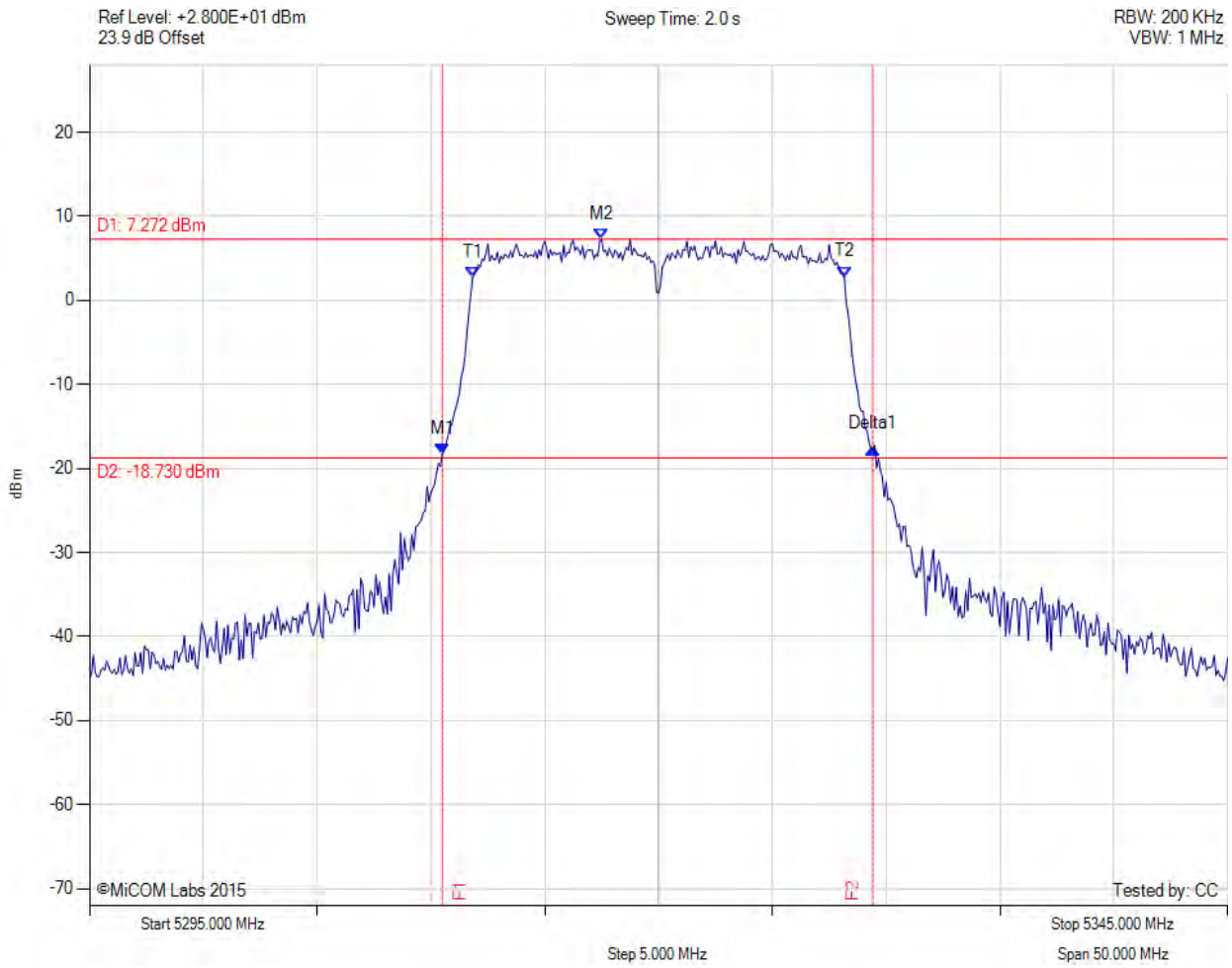


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.500 MHz : -18.112 dBm M2 : 5293.750 MHz : 7.091 dBm Delta1 : 18.830 MHz : 1.246 dB T1 : 5291.750 MHz : 1.076 dBm T2 : 5308.167 MHz : 2.897 dBm OBW : 16.395 MHz	Measured 26 dB Bandwidth: 18.830 MHz Measured 99% Bandwidth: 16.395 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

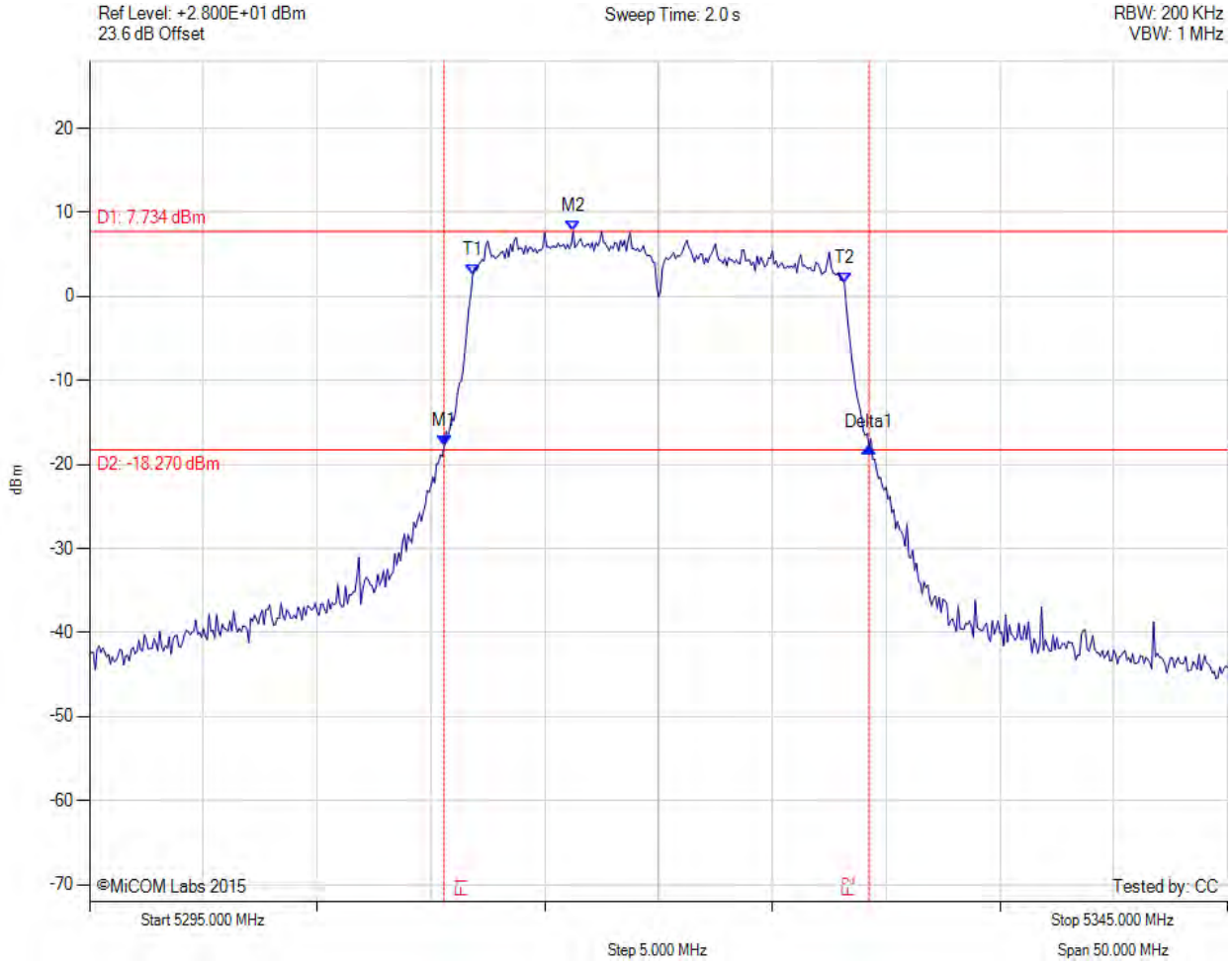


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.500 MHz : -18.280 dBm M2 : 5317.500 MHz : 7.272 dBm Delta1 : 18.920 MHz : 0.628 dB T1 : 5311.833 MHz : 2.776 dBm T2 : 5328.167 MHz : 2.808 dBm OBW : 16.360 MHz	Measured 26 dB Bandwidth: 18.920 MHz Measured 99% Bandwidth: 16.360 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

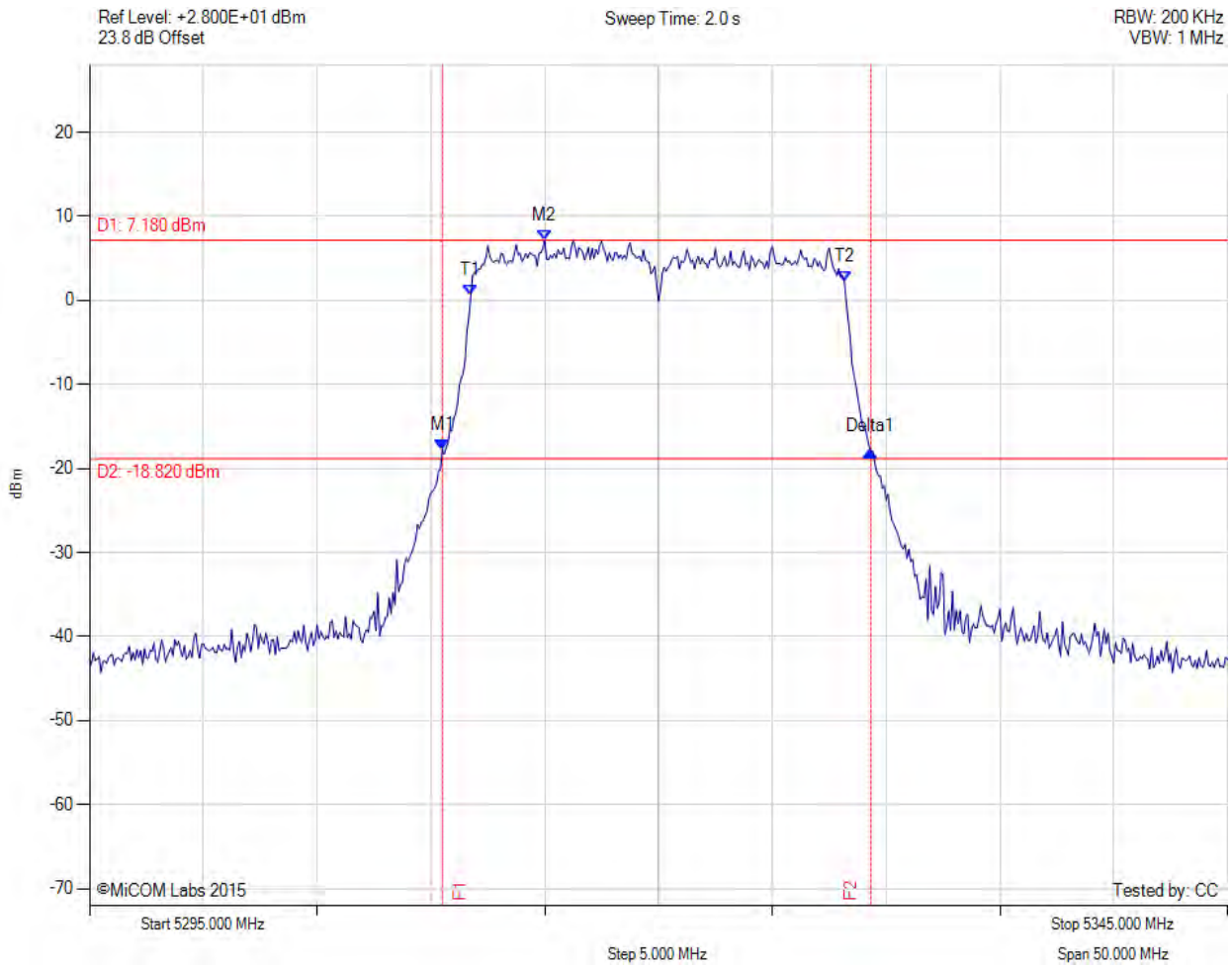


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.580 MHz : -17.751 dBm M2 : 5316.250 MHz : 7.734 dBm Delta1 : 18.670 MHz : -0.134 dB T1 : 5311.833 MHz : 2.582 dBm T2 : 5328.167 MHz : 1.595 dBm OBW : 16.336 MHz	Measured 26 dB Bandwidth: 18.670 MHz Measured 99% Bandwidth: 16.336 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

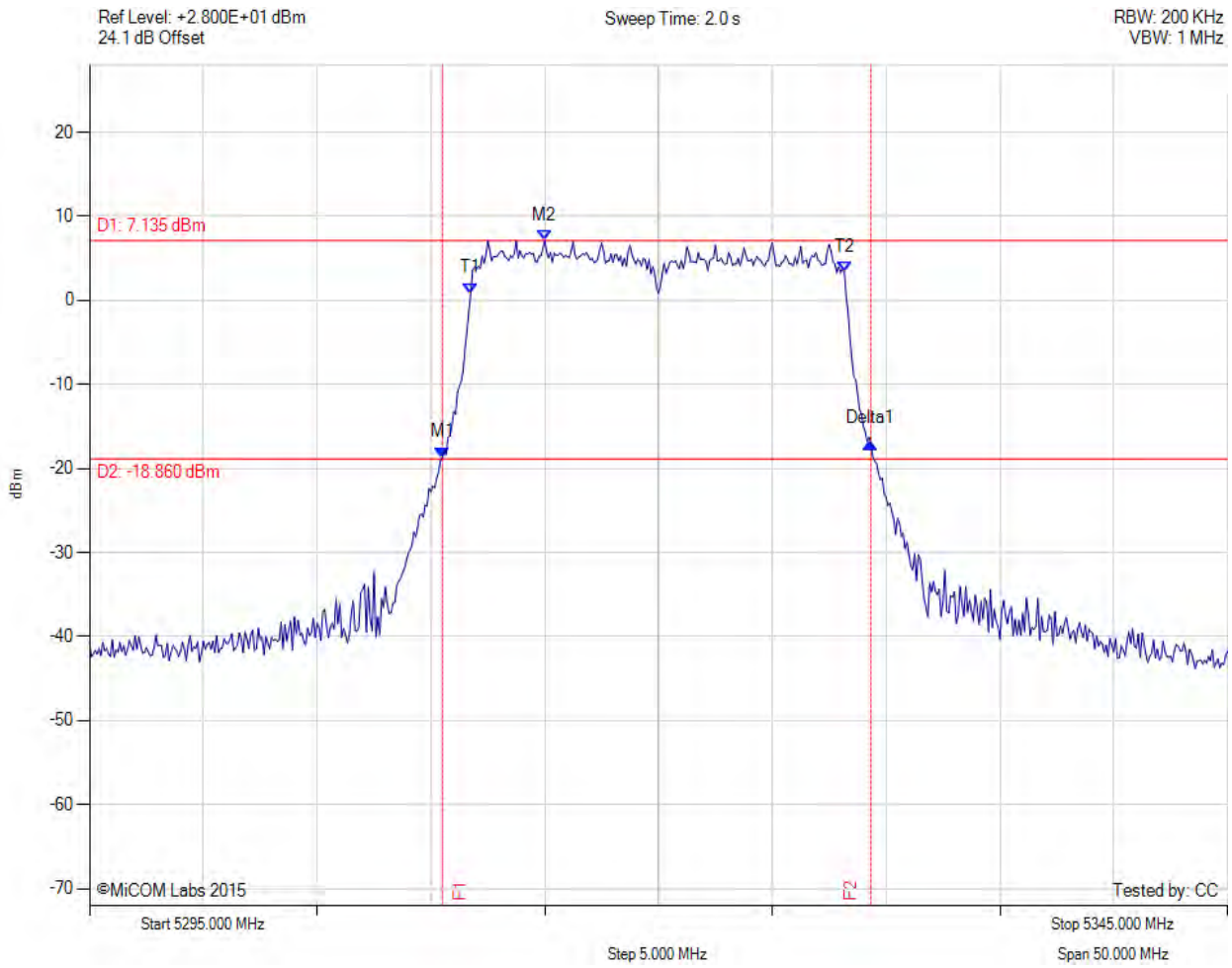


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.500 MHz : -17.779 dBm M2 : 5315.000 MHz : 7.180 dBm Delta1 : 18.830 MHz : -0.187 dB T1 : 5311.750 MHz : 0.584 dBm T2 : 5328.167 MHz : 2.246 dBm OBW : 16.371 MHz	Measured 26 dB Bandwidth: 18.830 MHz Measured 99% Bandwidth: 16.371 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

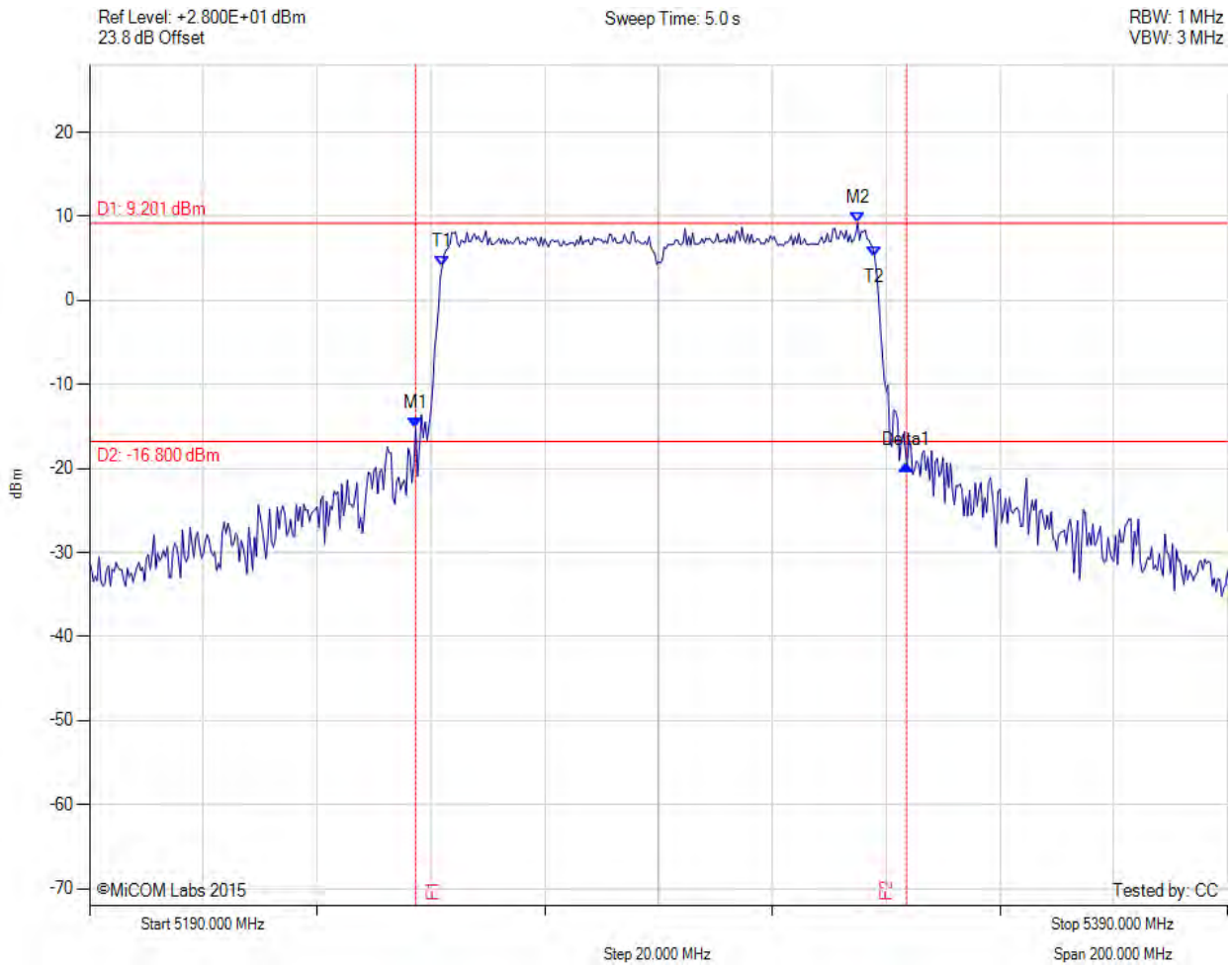


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.500 MHz : -18.679 dBm M2 : 5315.000 MHz : 7.135 dBm Delta1 : 18.830 MHz : 1.712 dB T1 : 5311.750 MHz : 0.859 dBm T2 : 5328.167 MHz : 3.352 dBm OBW : 16.403 MHz	Measured 26 dB Bandwidth: 18.830 MHz Measured 99% Bandwidth: 16.403 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

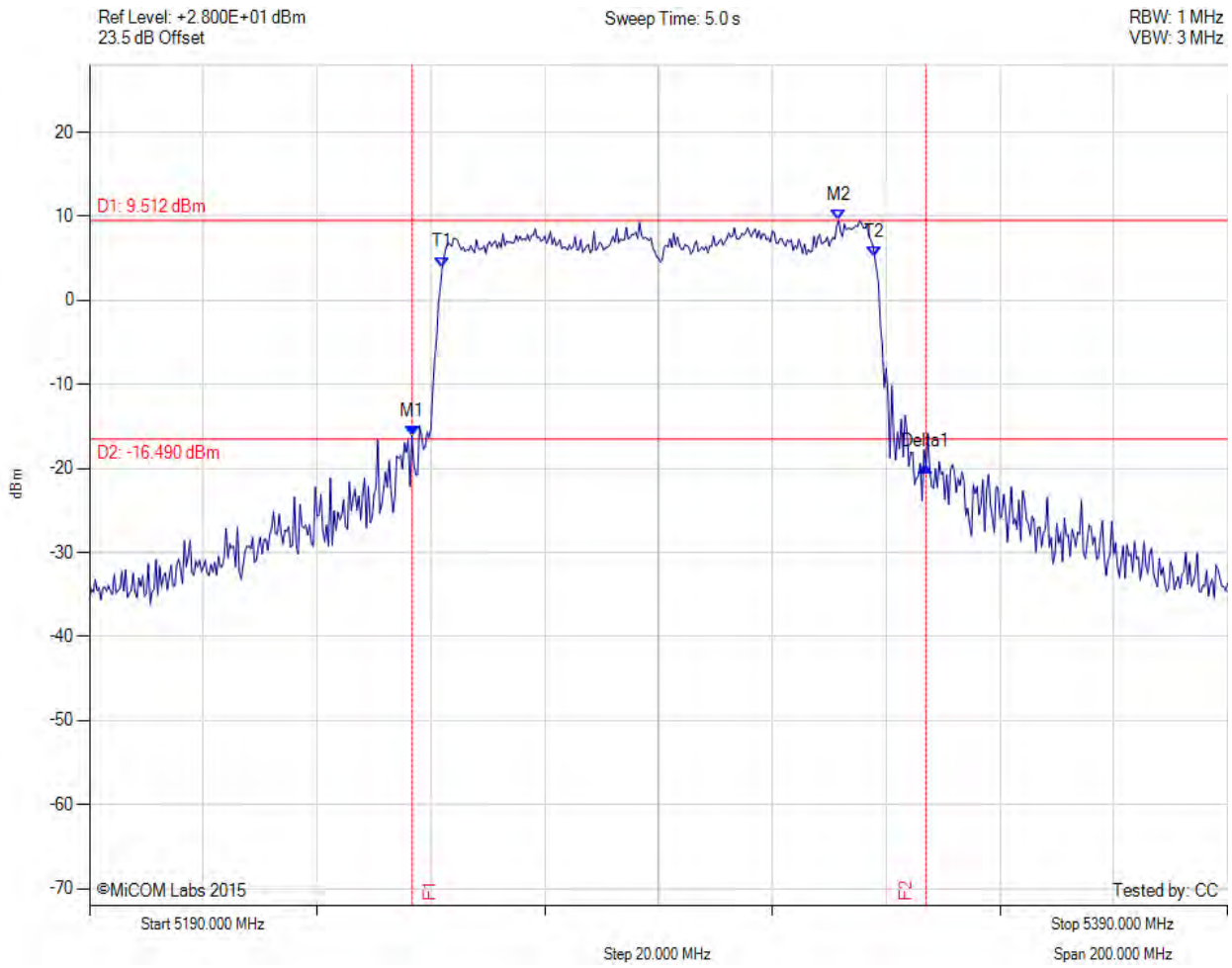


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5247.300 MHz : -15.193 dBm M2 : 5325.000 MHz : 9.201 dBm Delta1 : 86.300 MHz : -4.428 dB T1 : 5252.000 MHz : 4.062 dBm T2 : 5328.000 MHz : 5.235 dBm OBW : 75.901 MHz	Measured 26 dB Bandwidth: 86.300 MHz Measured 99% Bandwidth: 75.901 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

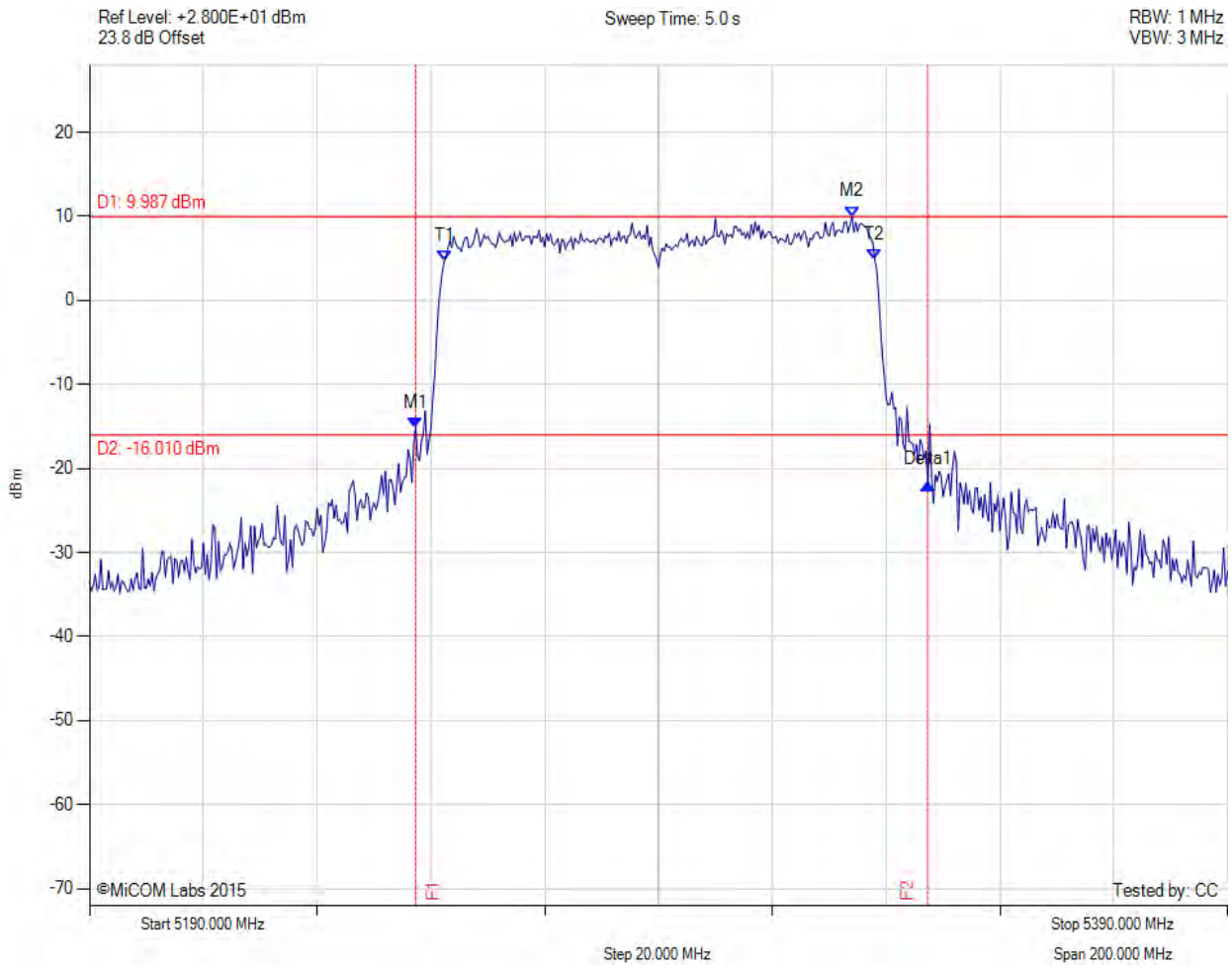


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5246.700 MHz : -16.128 dBm M2 : 5321.700 MHz : 9.512 dBm Delta1 : 90.300 MHz : -3.661 dB T1 : 5252.000 MHz : 3.944 dBm T2 : 5328.000 MHz : 5.150 dBm OBW : 75.897 MHz	Measured 26 dB Bandwidth: 90.300 MHz Measured 99% Bandwidth: 75.897 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc

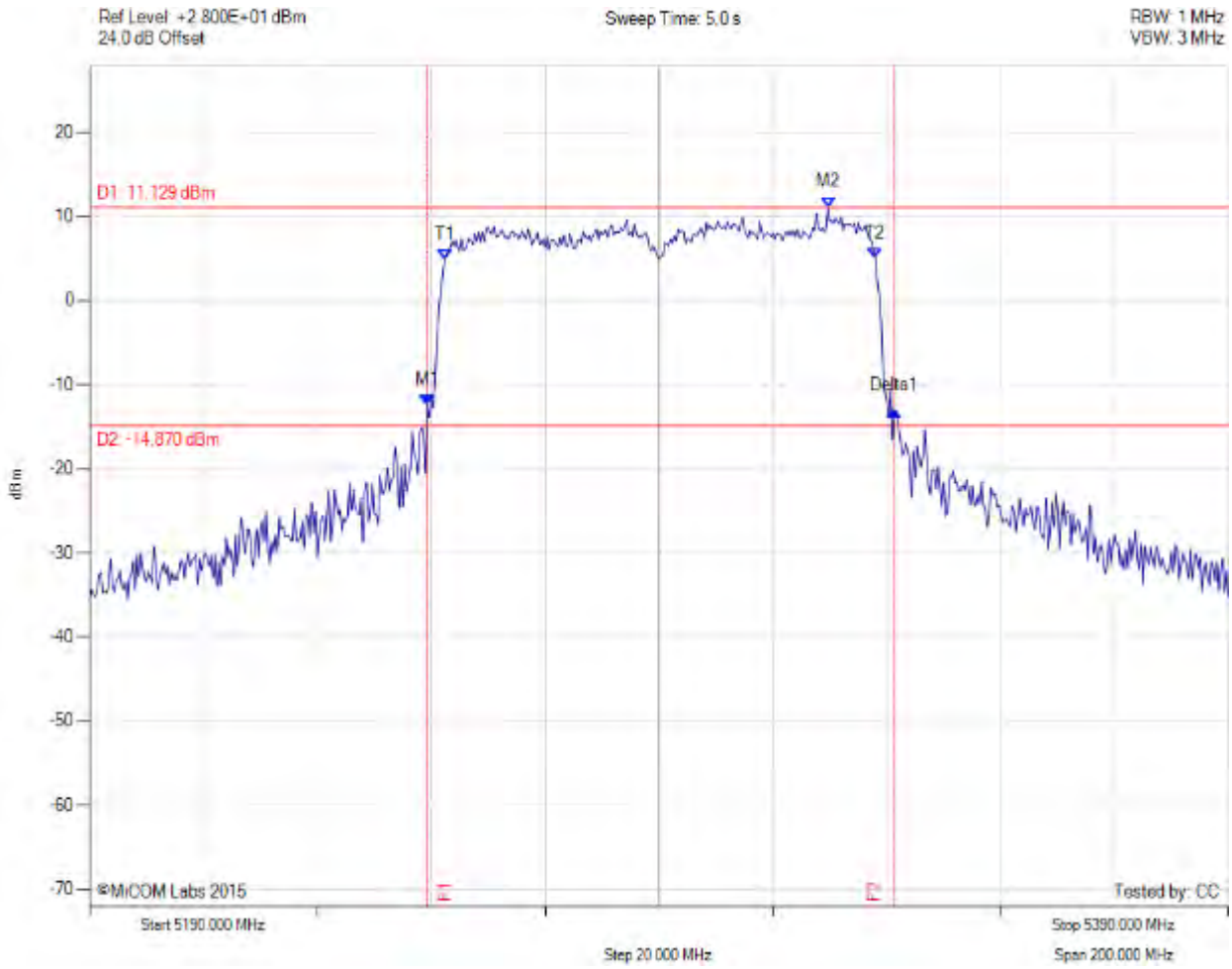


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5247.300 MHz : -15.121 dBm M2 : 5324.000 MHz : 9.987 dBm Delta1 : 90.000 MHz : -6.745 dB T1 : 5252.333 MHz : 4.628 dBm T2 : 5328.000 MHz : 4.824 dBm OBW : 75.689 MHz	Measured 26 dB Bandwidth: 90.000 MHz Measured 99% Bandwidth: 75.689 MHz

back to matrix

26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc

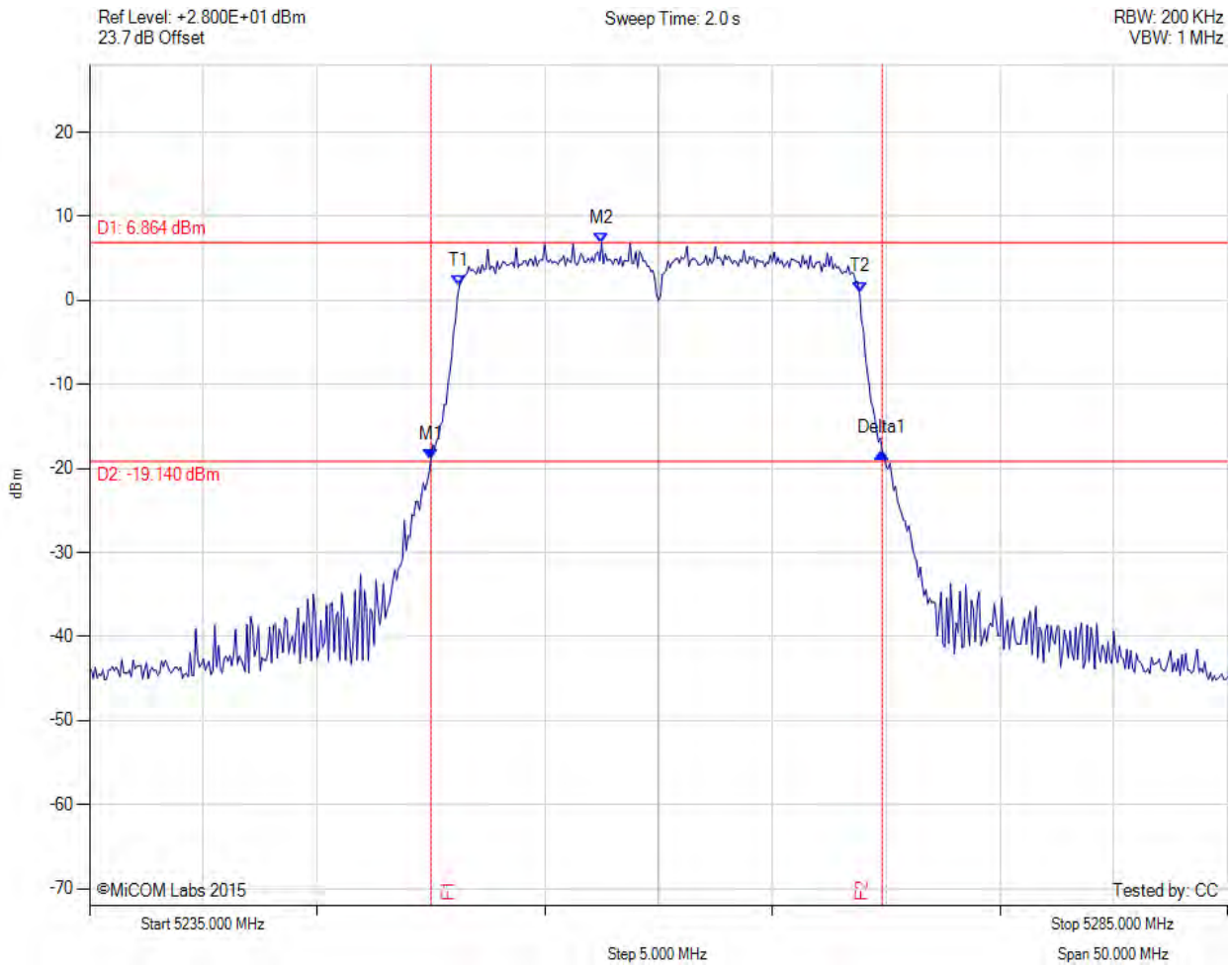


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5249.300 MHz : -12.422 dBm M2 : 5319.700 MHz : 11.129 dBm Delta1 : 82.000 MHz : -0.714 dB T1 : 5252.333 MHz : 4.895 dBm T2 : 5328.000 MHz : 4.969 dBm OBW : 75.413 MHz	Measured 26 dB Bandwidth: 82.000 MHz Measured 99% Bandwidth: 75.413 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

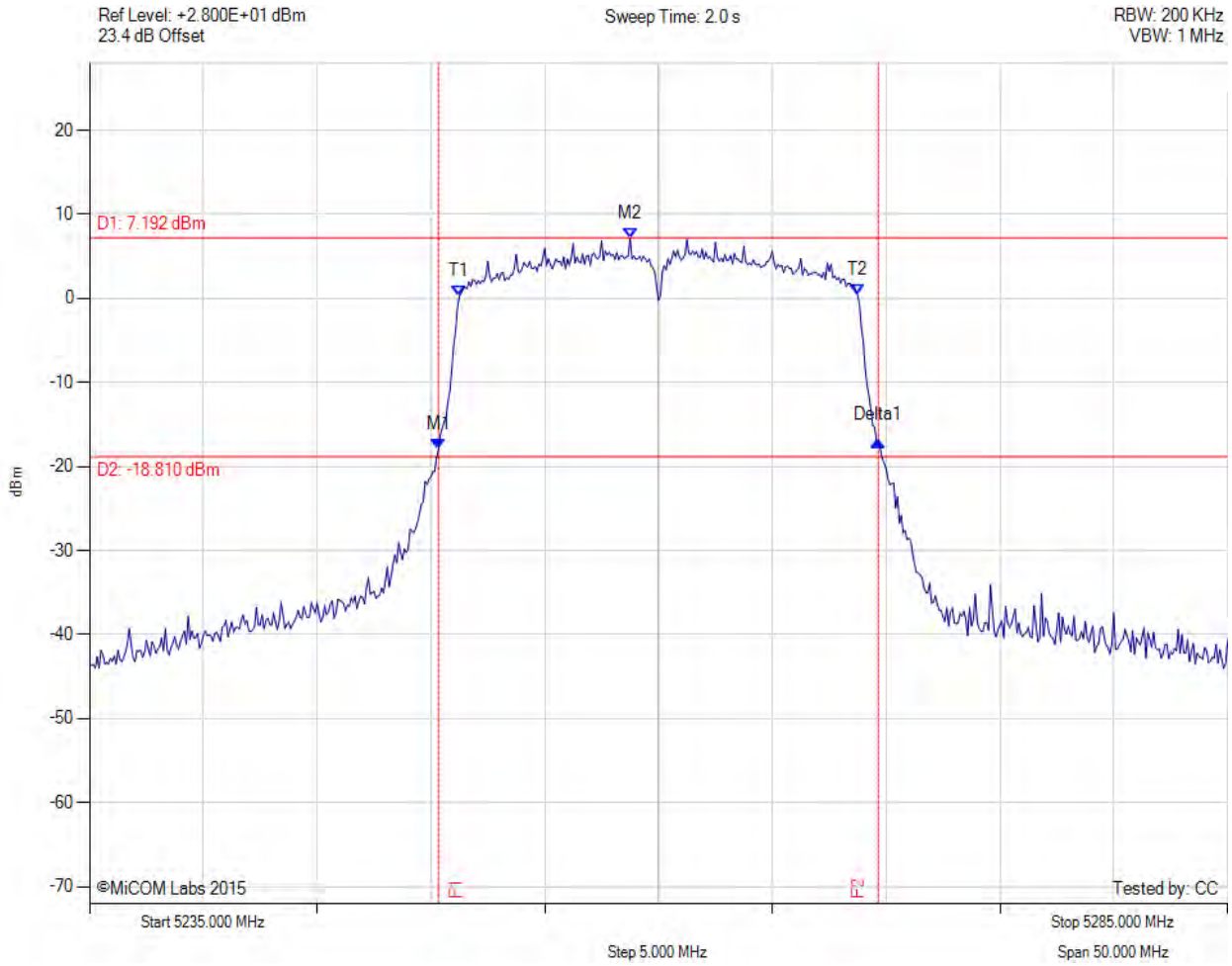


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.000 MHz : -18.942 dBm M2 : 5257.500 MHz : 6.864 dBm Delta1 : 19.830 MHz : 0.812 dB T1 : 5251.250 MHz : 1.754 dBm T2 : 5268.833 MHz : 1.016 dBm OBW : 17.555 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.555 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

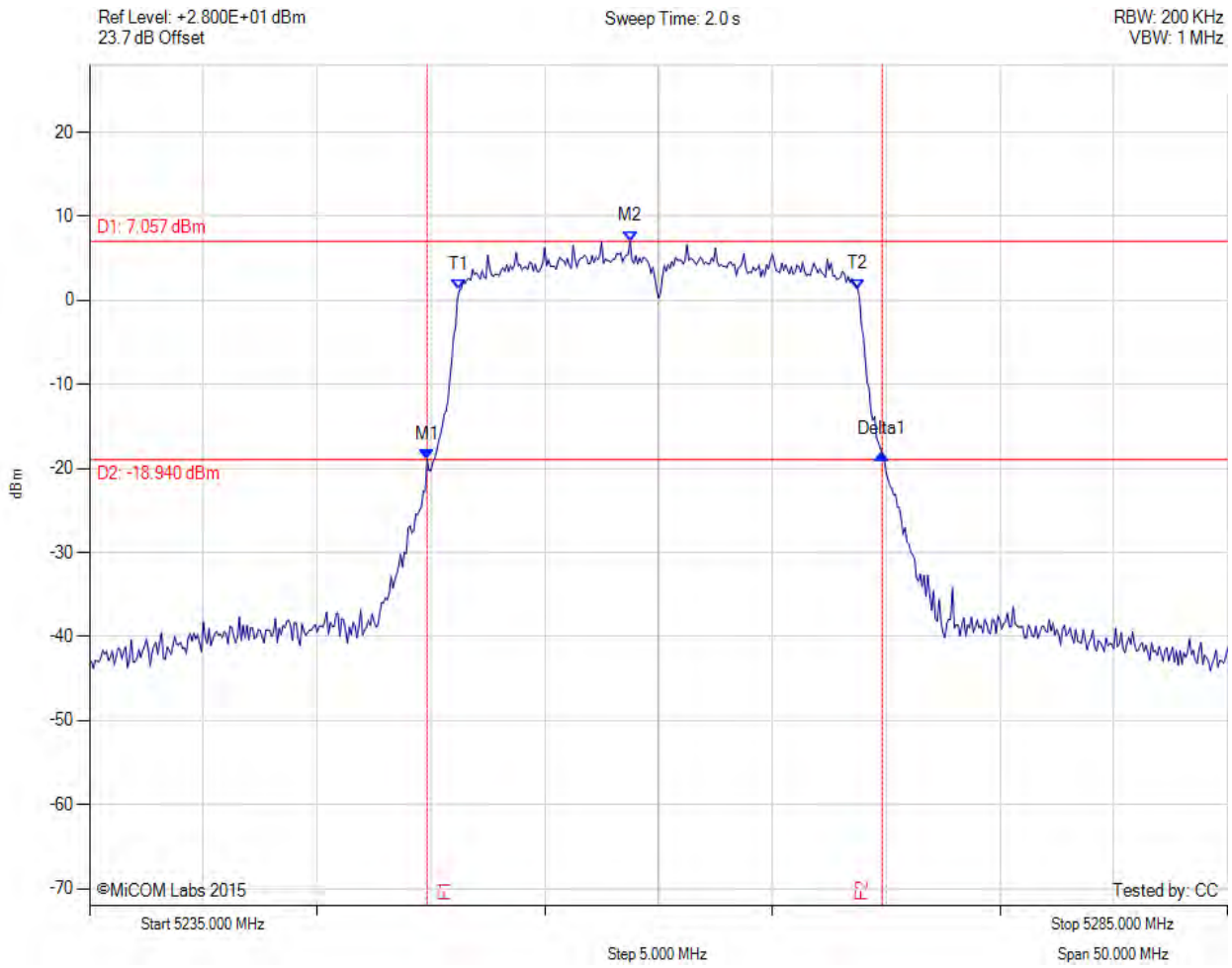


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.330 MHz : -17.989 dBm M2 : 5258.750 MHz : 7.192 dBm Delta1 : 19.330 MHz : 1.097 dB T1 : 5251.250 MHz : 0.237 dBm T2 : 5268.750 MHz : 0.404 dBm OBW : 17.455 MHz	Measured 26 dB Bandwidth: 19.330 MHz Measured 99% Bandwidth: 17.455 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

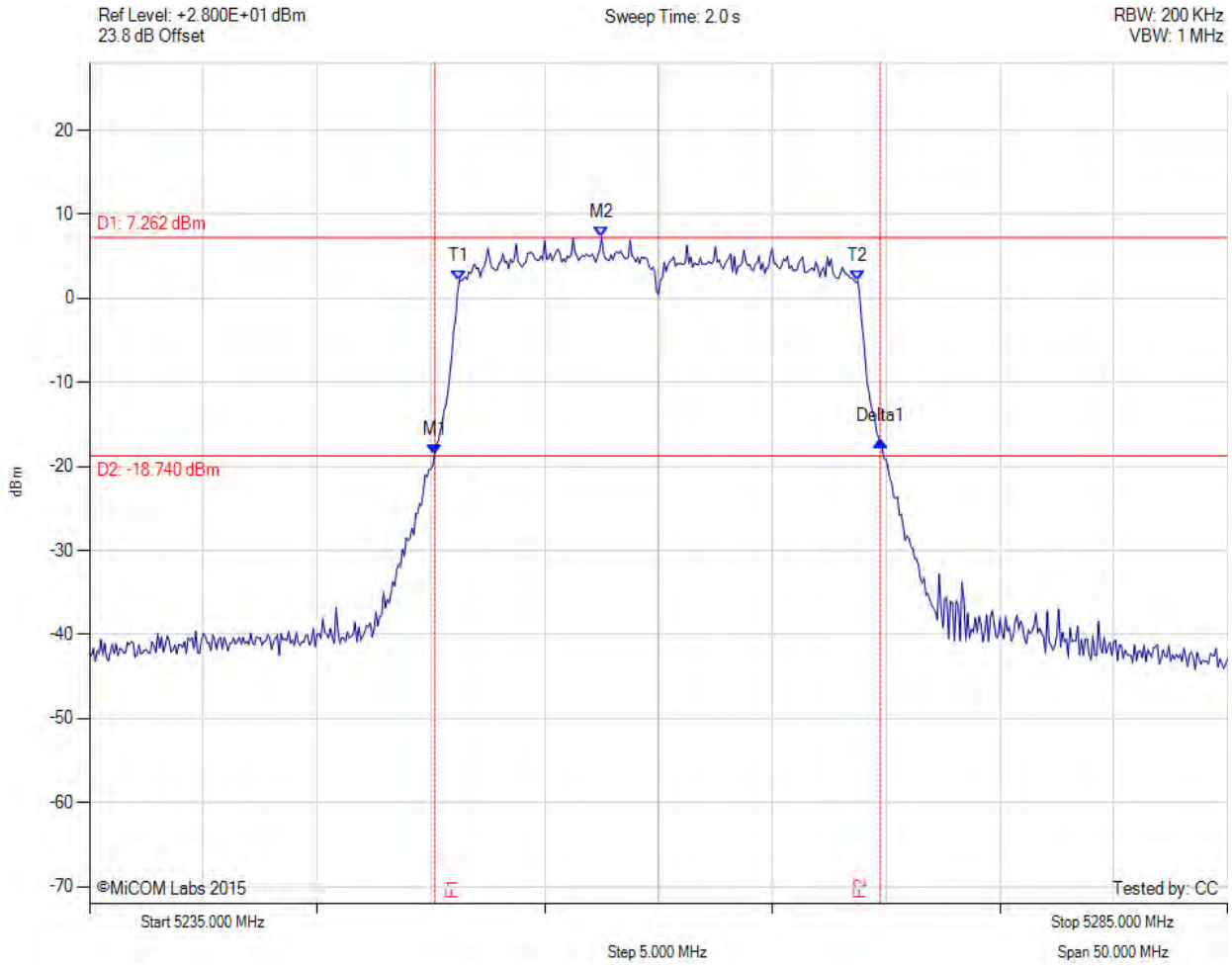


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5249.830 MHz : -18.922 dBm M2 : 5258.750 MHz : 7.057 dBm Delta1 : 20.000 MHz : 0.687 dB T1 : 5251.250 MHz : 1.209 dBm T2 : 5268.750 MHz : 1.354 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 20.000 MHz Measured 99% Bandwidth: 17.535 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

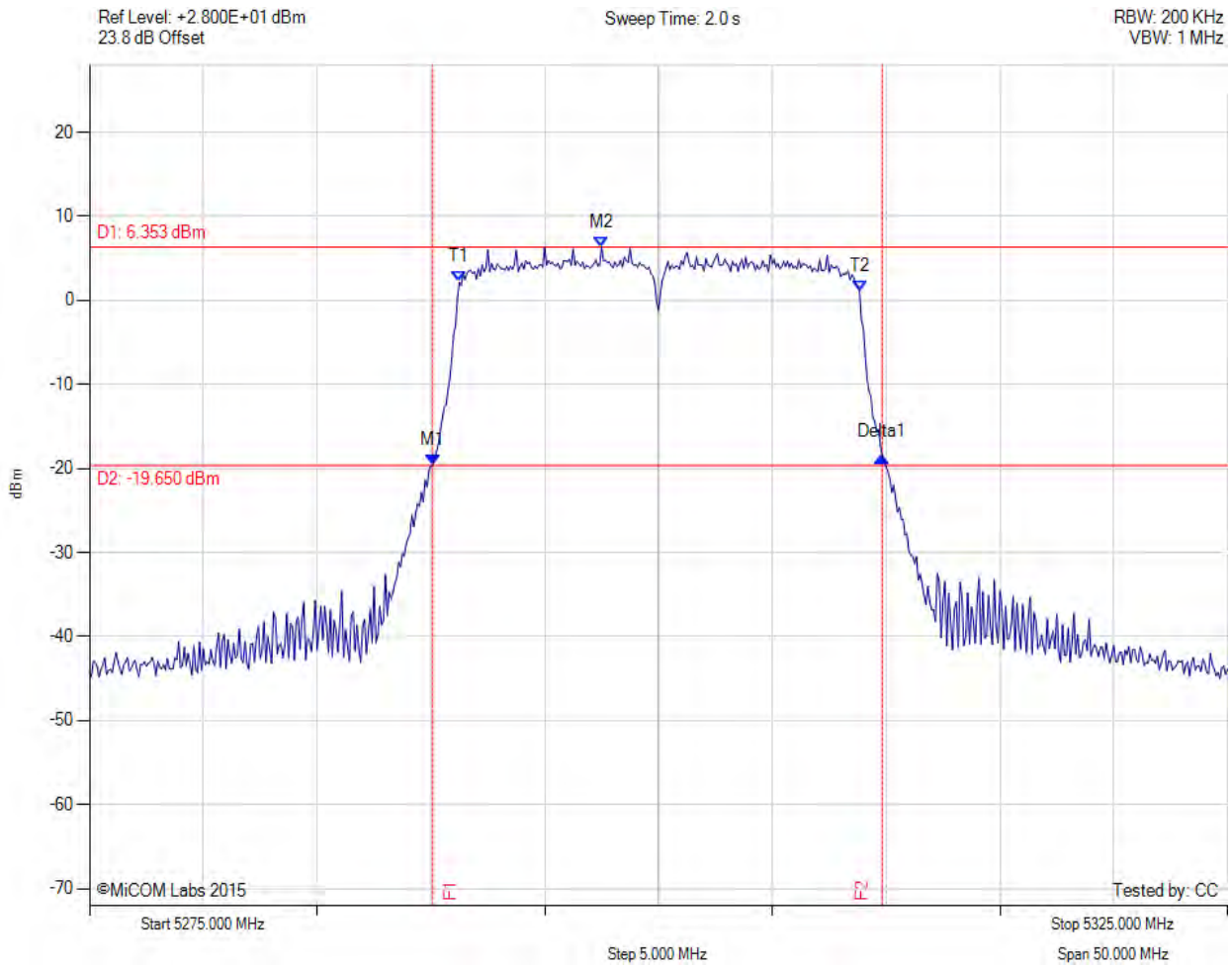


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.170 MHz : -18.570 dBm M2 : 5257.500 MHz : 7.262 dBm Delta1 : 19.580 MHz : 1.599 dB T1 : 5251.250 MHz : 2.105 dBm T2 : 5268.750 MHz : 2.084 dBm OBW : 17.545 MHz	Measured 26 dB Bandwidth: 19.580 MHz Measured 99% Bandwidth: 17.545 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

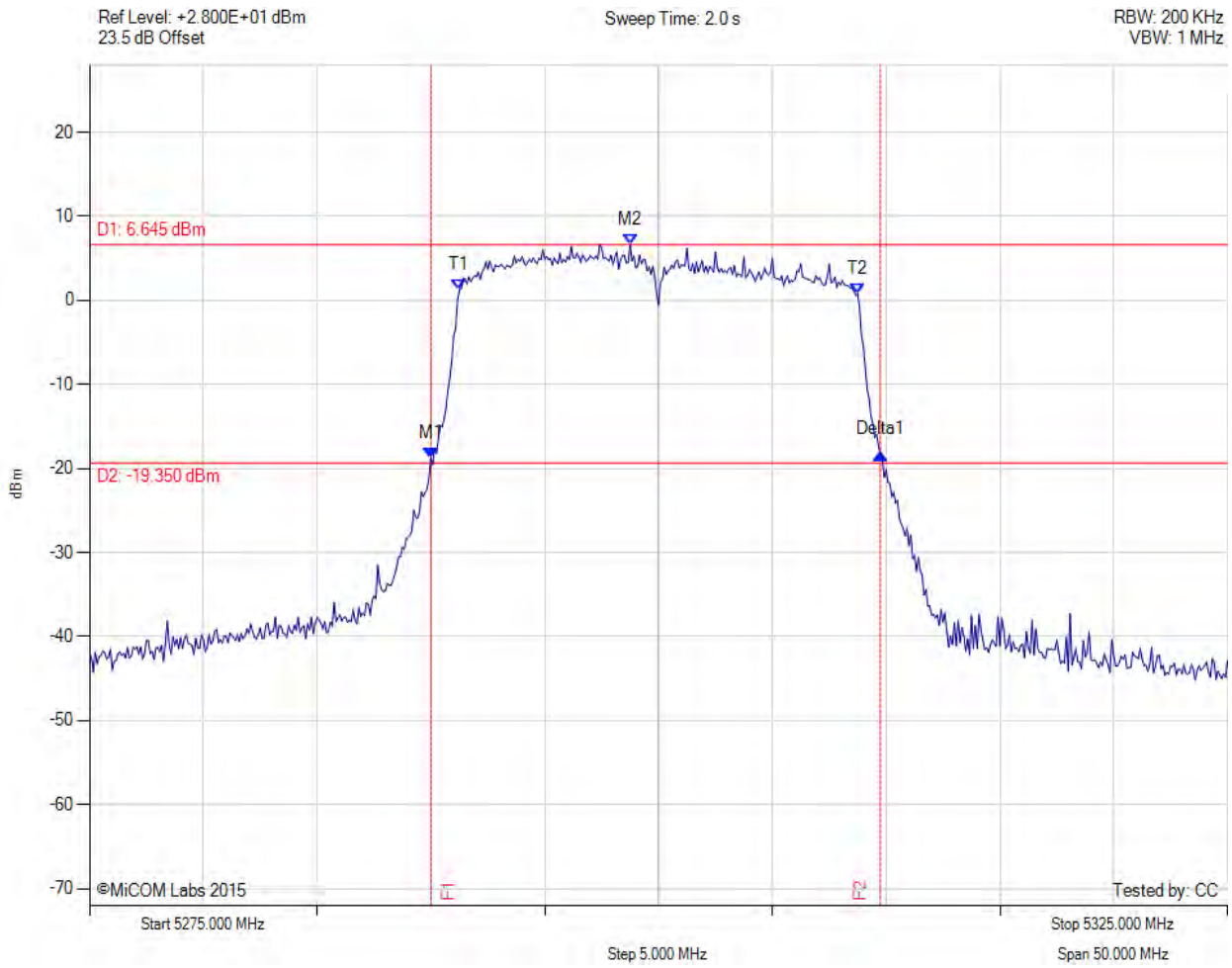


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.080 MHz : -19.589 dBm M2 : 5297.500 MHz : 6.353 dBm Delta1 : 19.750 MHz : 0.982 dB T1 : 5291.250 MHz : 2.173 dBm T2 : 5308.833 MHz : 1.118 dBm OBW : 17.574 MHz	Measured 26 dB Bandwidth: 19.750 MHz Measured 99% Bandwidth: 17.574 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

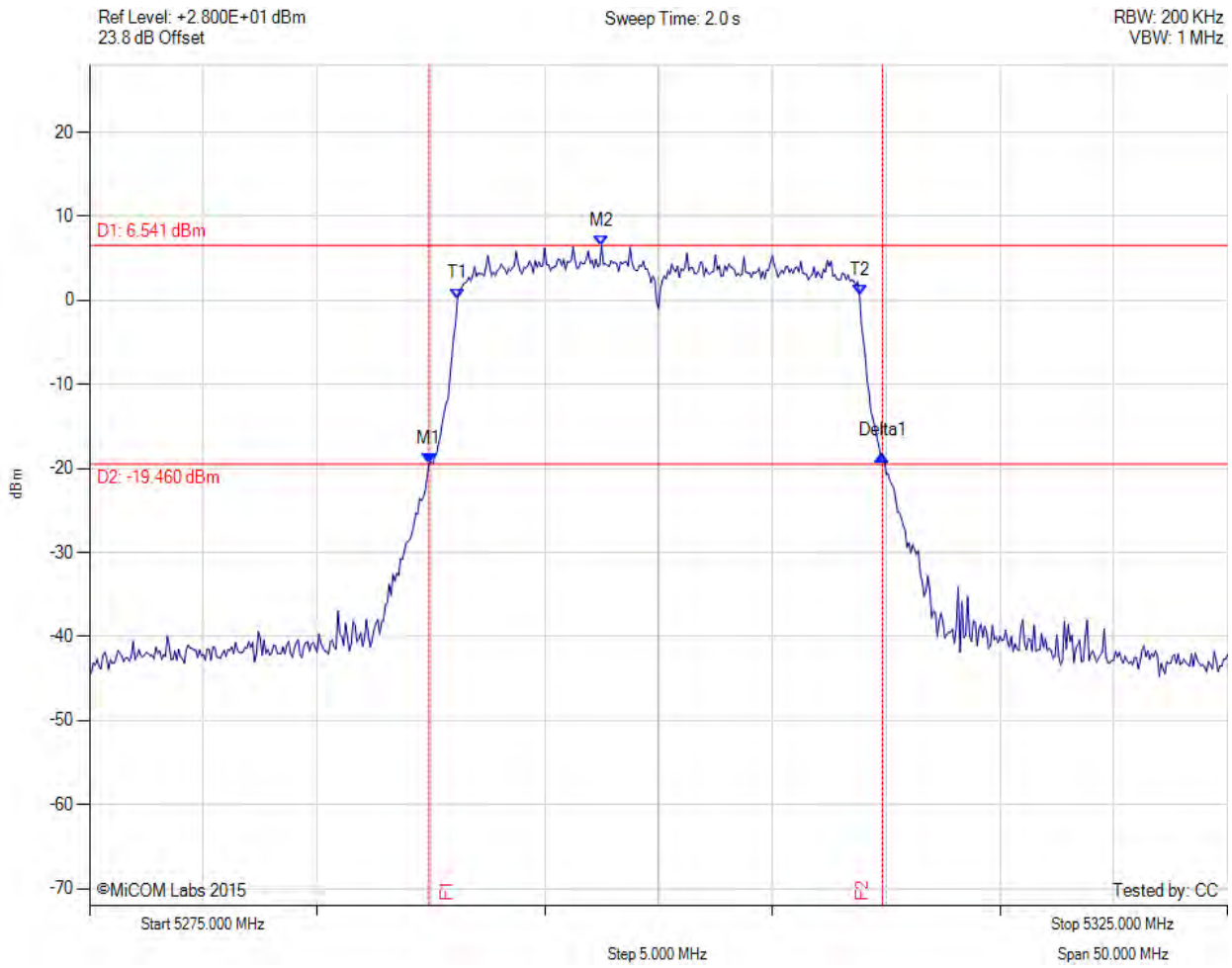


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.000 MHz : -18.733 dBm M2 : 5298.750 MHz : 6.645 dBm Delta1 : 19.750 MHz : 0.407 dB T1 : 5291.250 MHz : 1.235 dBm T2 : 5308.750 MHz : 0.776 dBm OBW : 17.513 MHz	Measured 26 dB Bandwidth: 19.750 MHz Measured 99% Bandwidth: 17.513 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

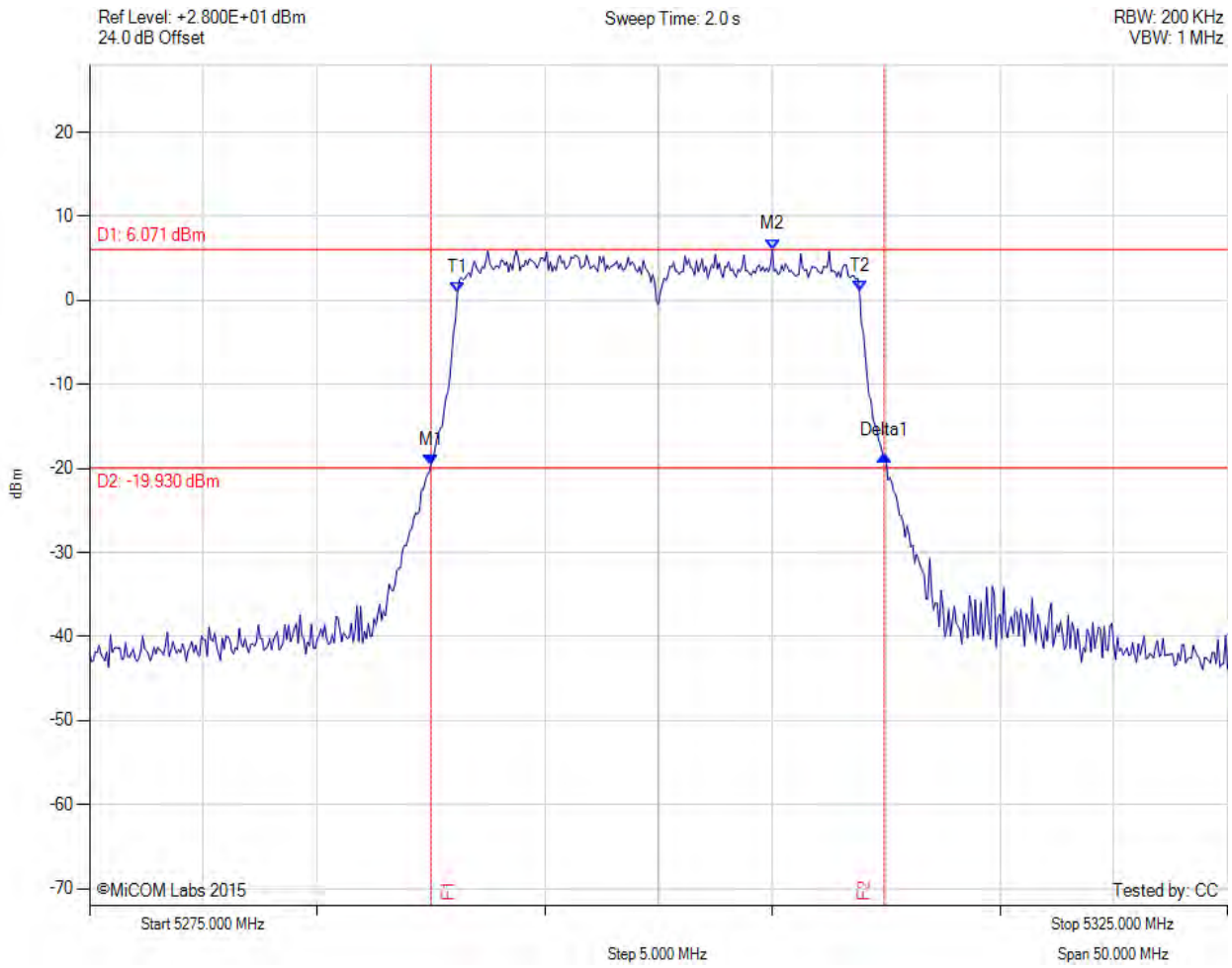


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5289.920 MHz : -19.377 dBm M2 : 5297.500 MHz : 6.541 dBm Delta1 : 19.920 MHz : 0.967 dB T1 : 5291.167 MHz : 0.210 dBm T2 : 5308.833 MHz : 0.685 dBm OBW : 17.575 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.575 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

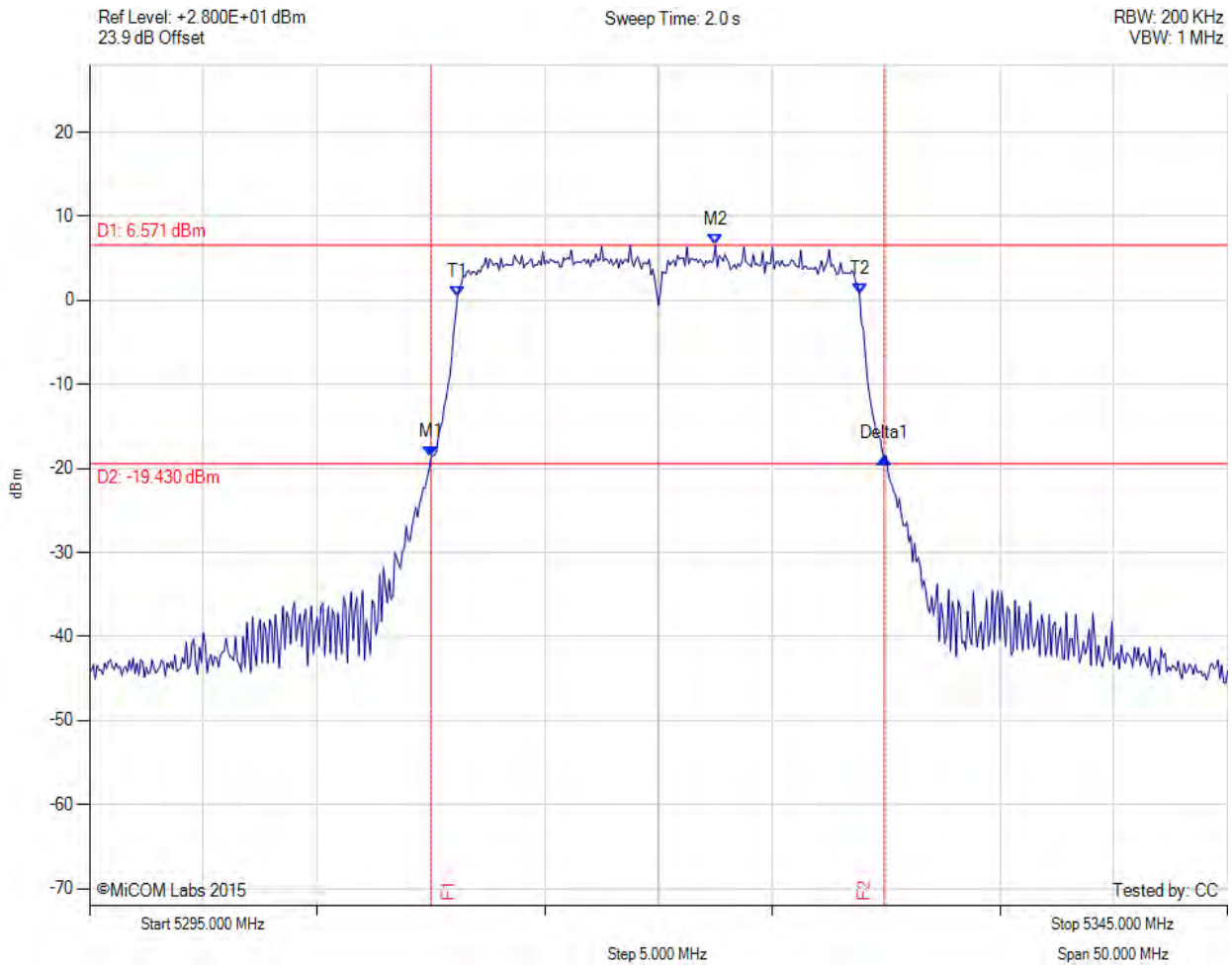


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.000 MHz : -19.518 dBm M2 : 5305.000 MHz : 6.071 dBm Delta1 : 19.920 MHz : 1.083 dB T1 : 5291.167 MHz : 0.983 dBm T2 : 5308.833 MHz : 1.163 dBm OBW : 17.603 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.603 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

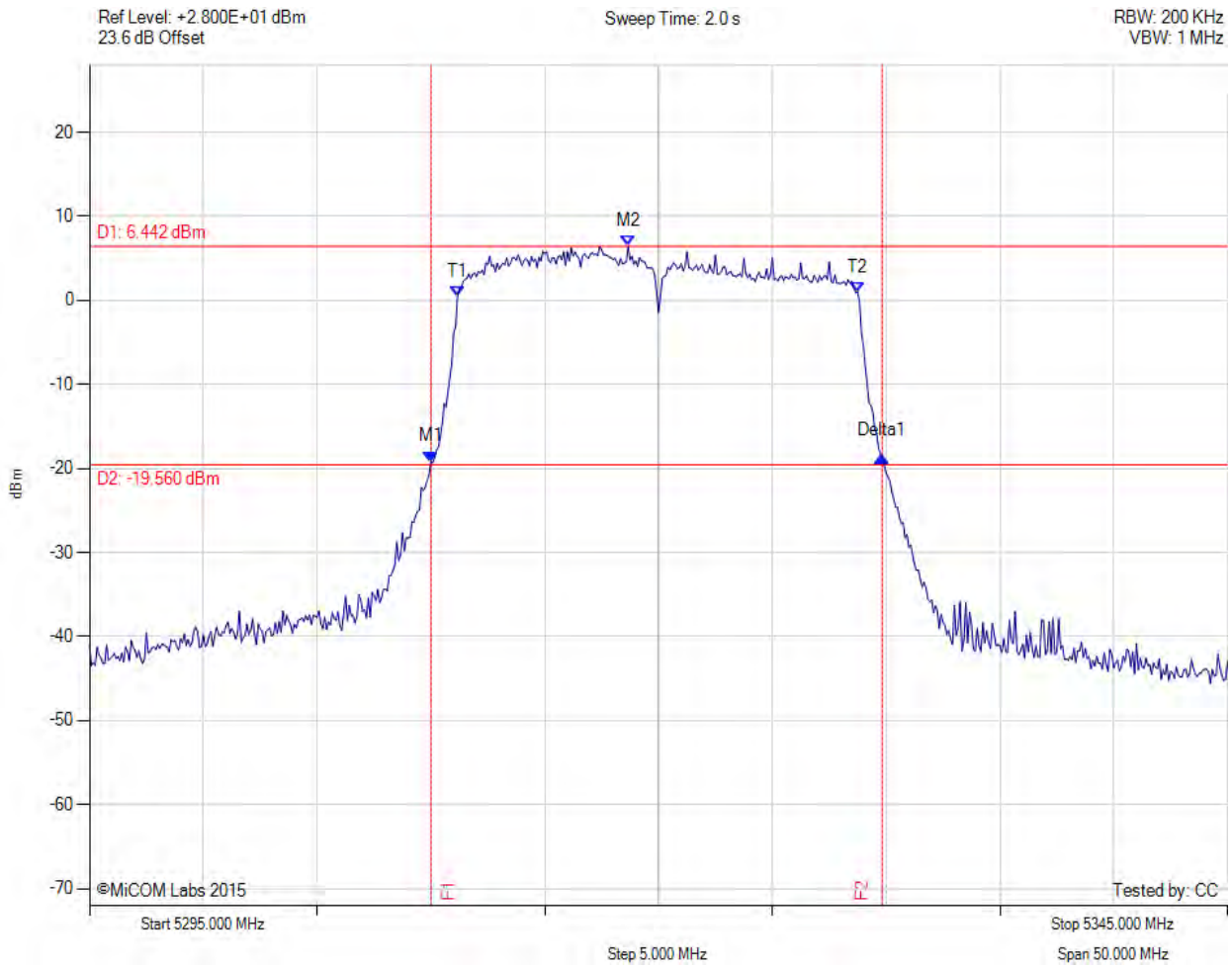


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.000 MHz : -18.659 dBm M2 : 5322.500 MHz : 6.571 dBm Delta1 : 19.920 MHz : -0.044 dB T1 : 5311.167 MHz : 0.427 dBm T2 : 5328.833 MHz : 0.755 dBm OBW : 17.559 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.559 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

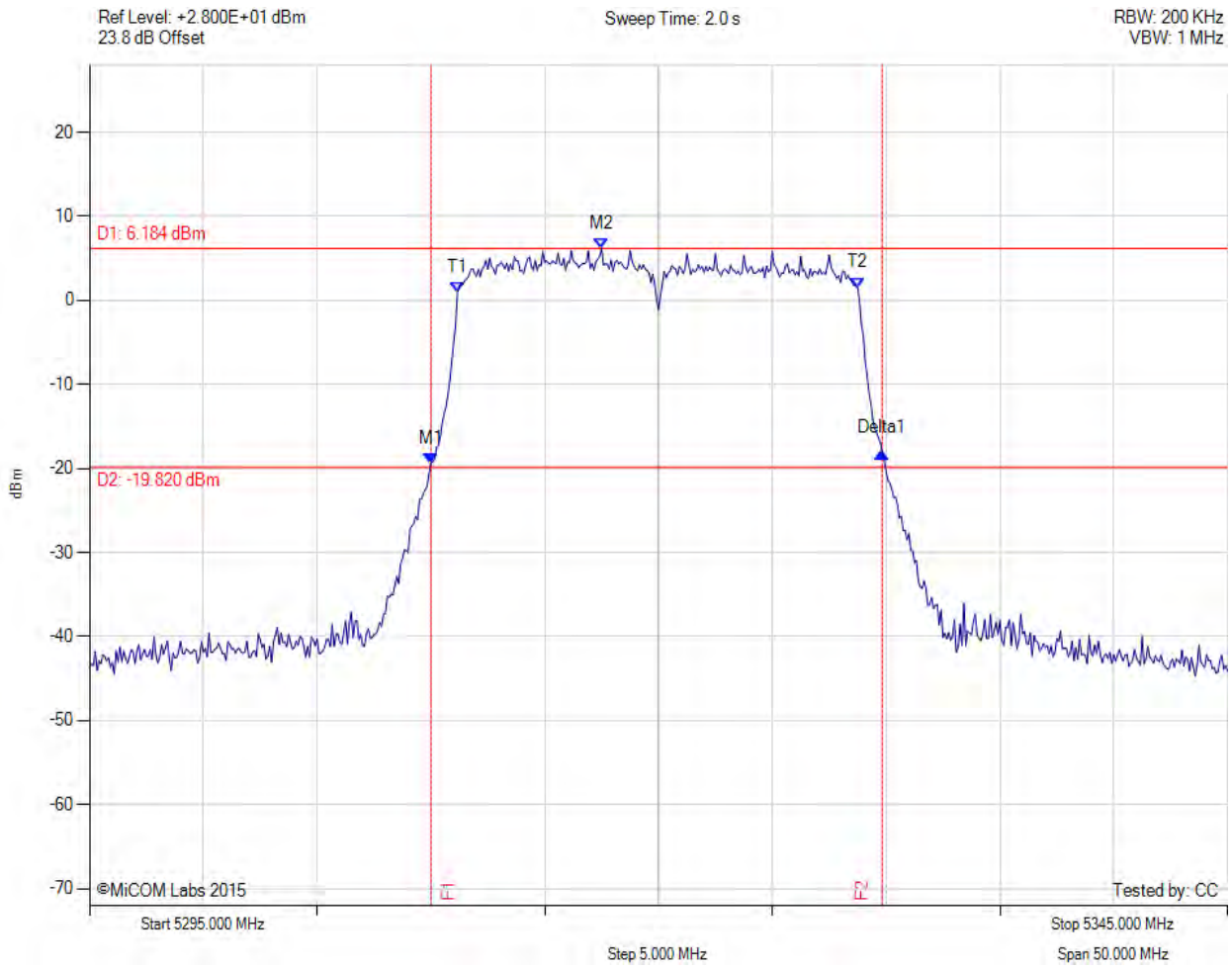


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.000 MHz : -19.185 dBm M2 : 5318.670 MHz : 6.442 dBm Delta1 : 19.830 MHz : 0.658 dB T1 : 5311.167 MHz : 0.412 dBm T2 : 5328.750 MHz : 0.954 dBm OBW : 17.535 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.535 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

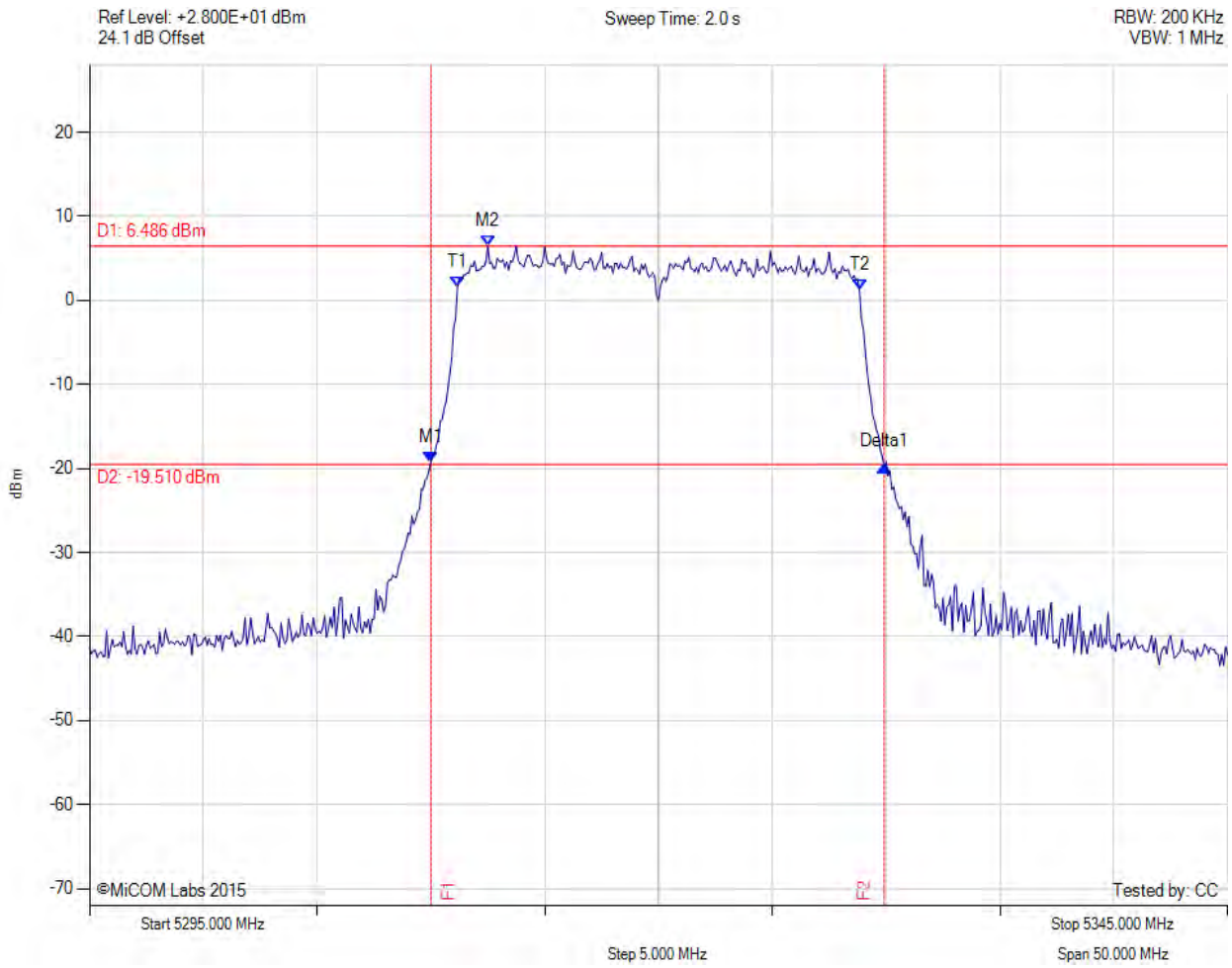


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.000 MHz : -19.357 dBm M2 : 5317.500 MHz : 6.184 dBm Delta1 : 19.830 MHz : 1.222 dB T1 : 5311.167 MHz : 0.960 dBm T2 : 5328.750 MHz : 1.503 dBm OBW : 17.564 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.564 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

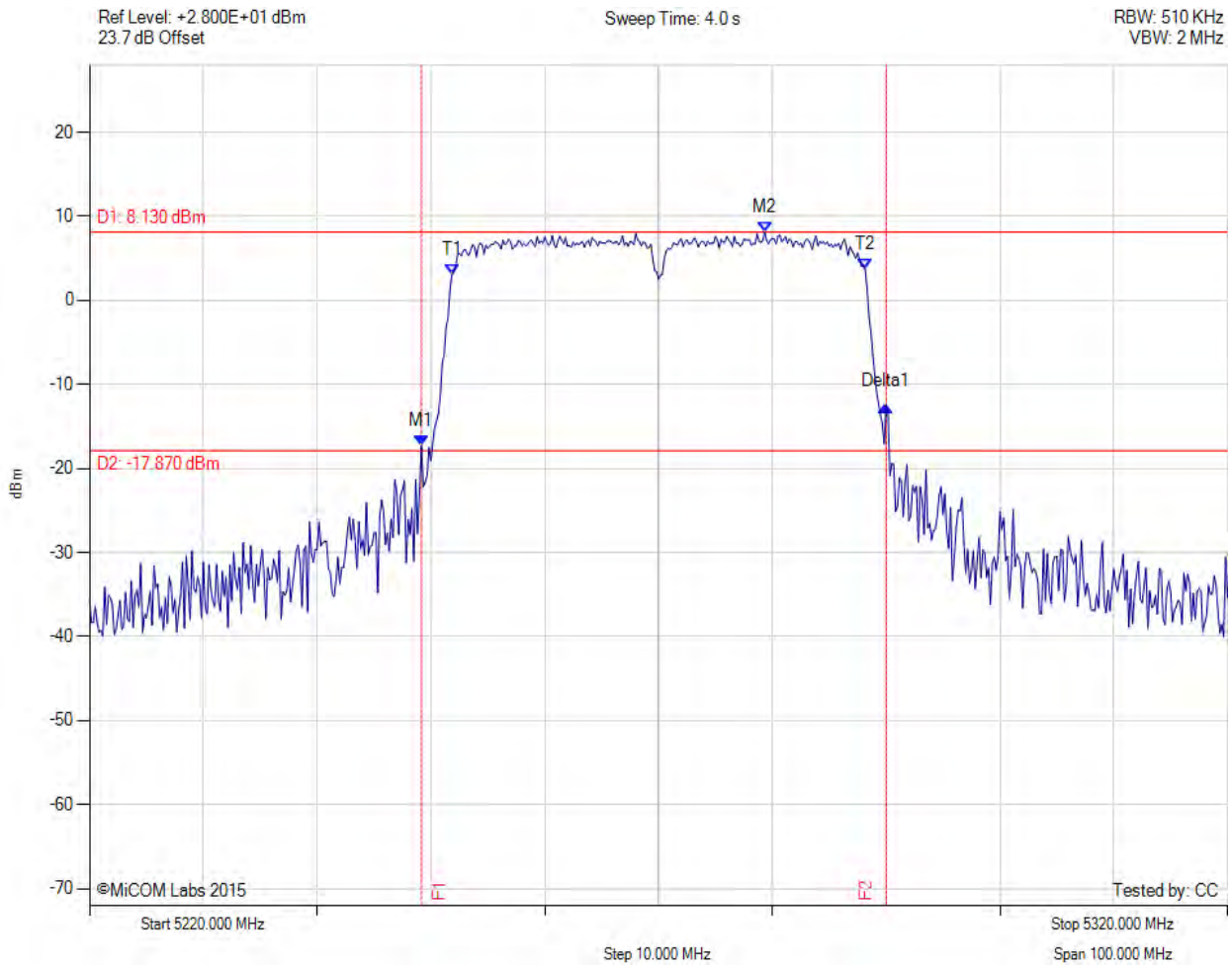


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5310.000 MHz : -19.195 dBm M2 : 5312.500 MHz : 6.486 dBm Delta1 : 19.920 MHz : -0.589 dB T1 : 5311.167 MHz : 1.647 dBm T2 : 5328.833 MHz : 1.198 dBm OBW : 17.621 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.621 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

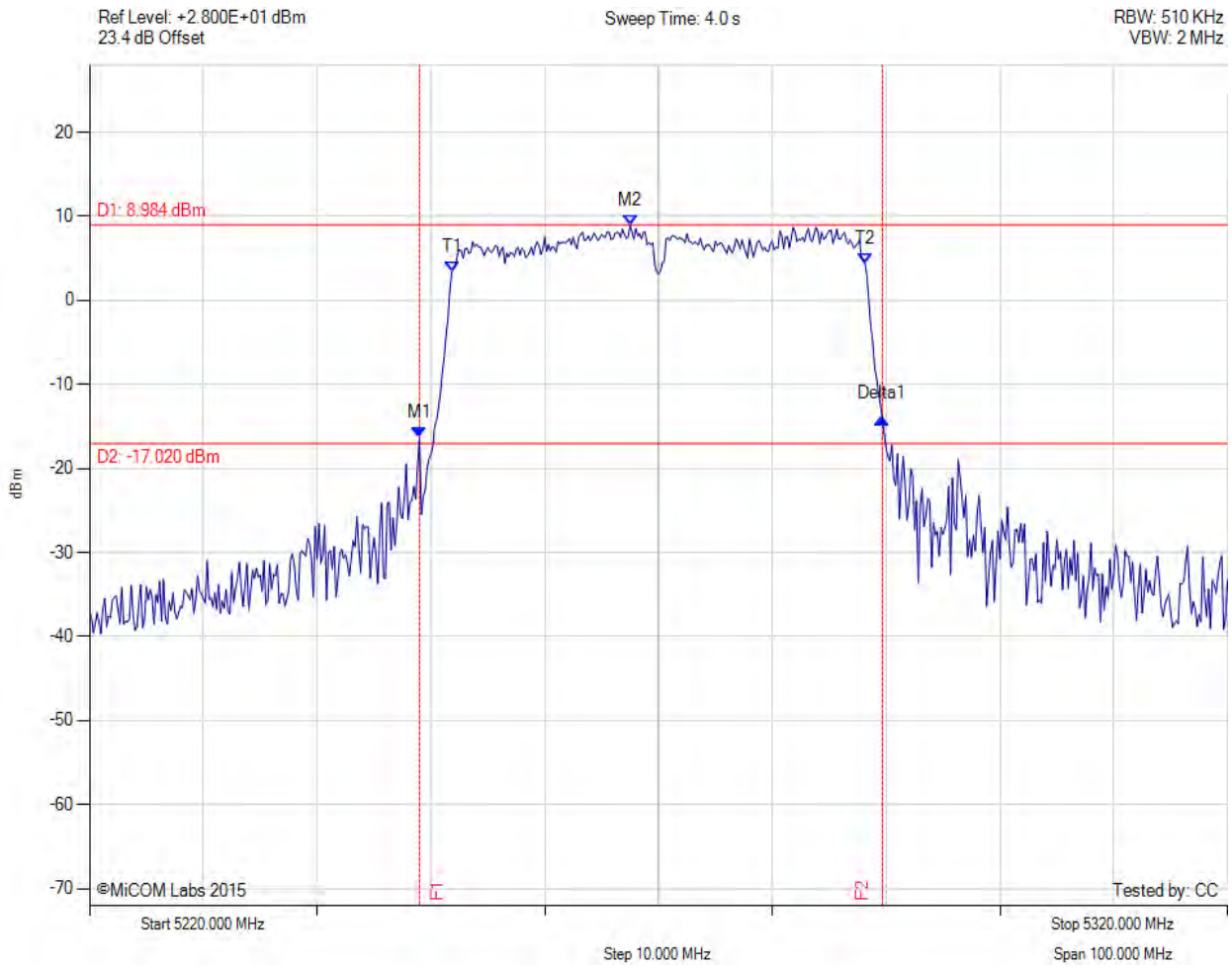


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5249.170 MHz : -17.278 dBm M2 : 5279.330 MHz : 8.130 dBm Delta1 : 40.830 MHz : 4.646 dB T1 : 5251.833 MHz : 3.006 dBm T2 : 5288.167 MHz : 3.690 dBm OBW : 36.162 MHz	Measured 26 dB Bandwidth: 40.830 MHz Measured 99% Bandwidth: 36.162 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

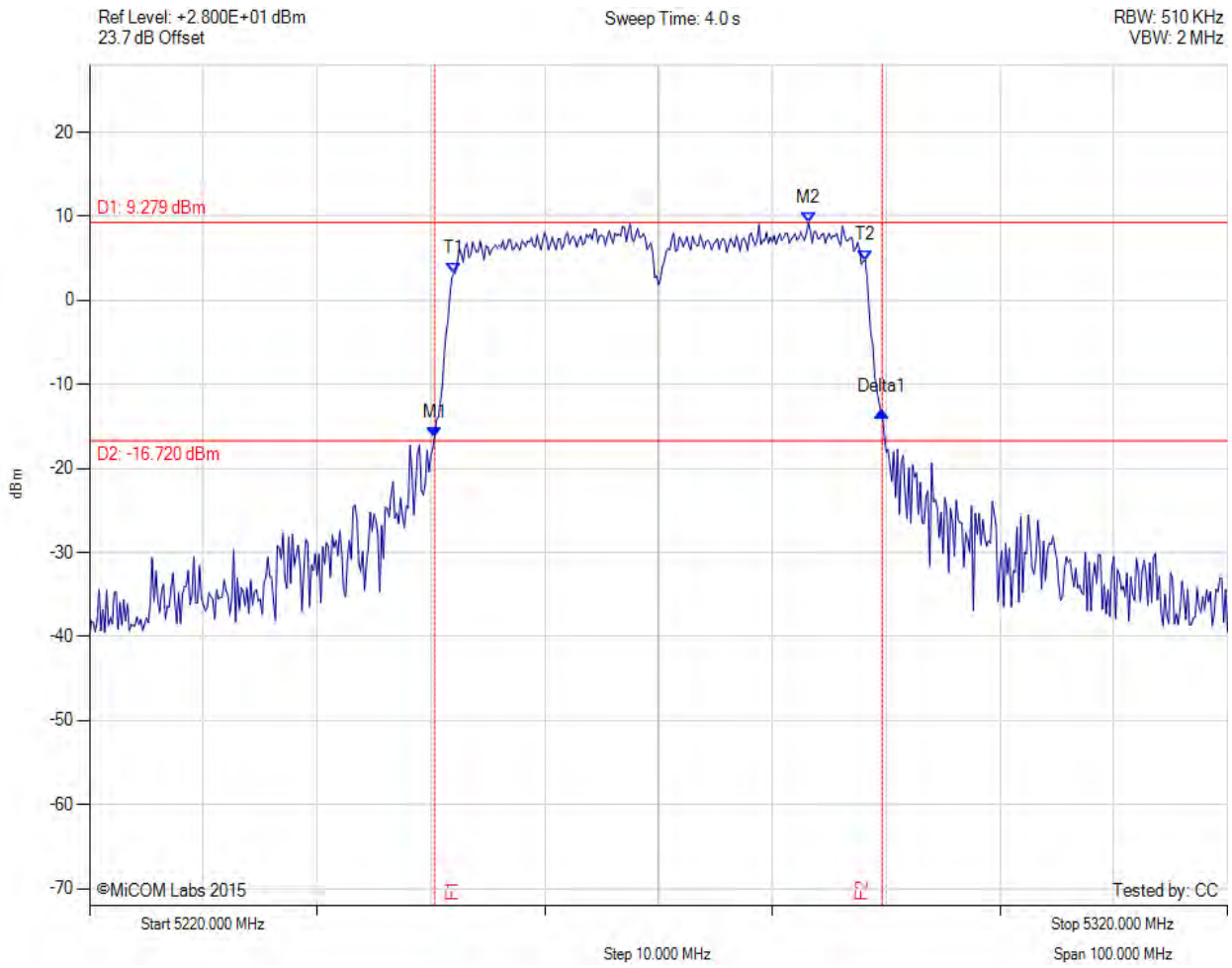


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5249.000 MHz : -16.344 dBm M2 : 5267.500 MHz : 8.984 dBm Delta1 : 40.670 MHz : 2.244 dB T1 : 5251.833 MHz : 3.370 dBm T2 : 5288.167 MHz : 4.345 dBm OBW : 36.217 MHz	Measured 26 dB Bandwidth: 40.670 MHz Measured 99% Bandwidth: 36.217 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

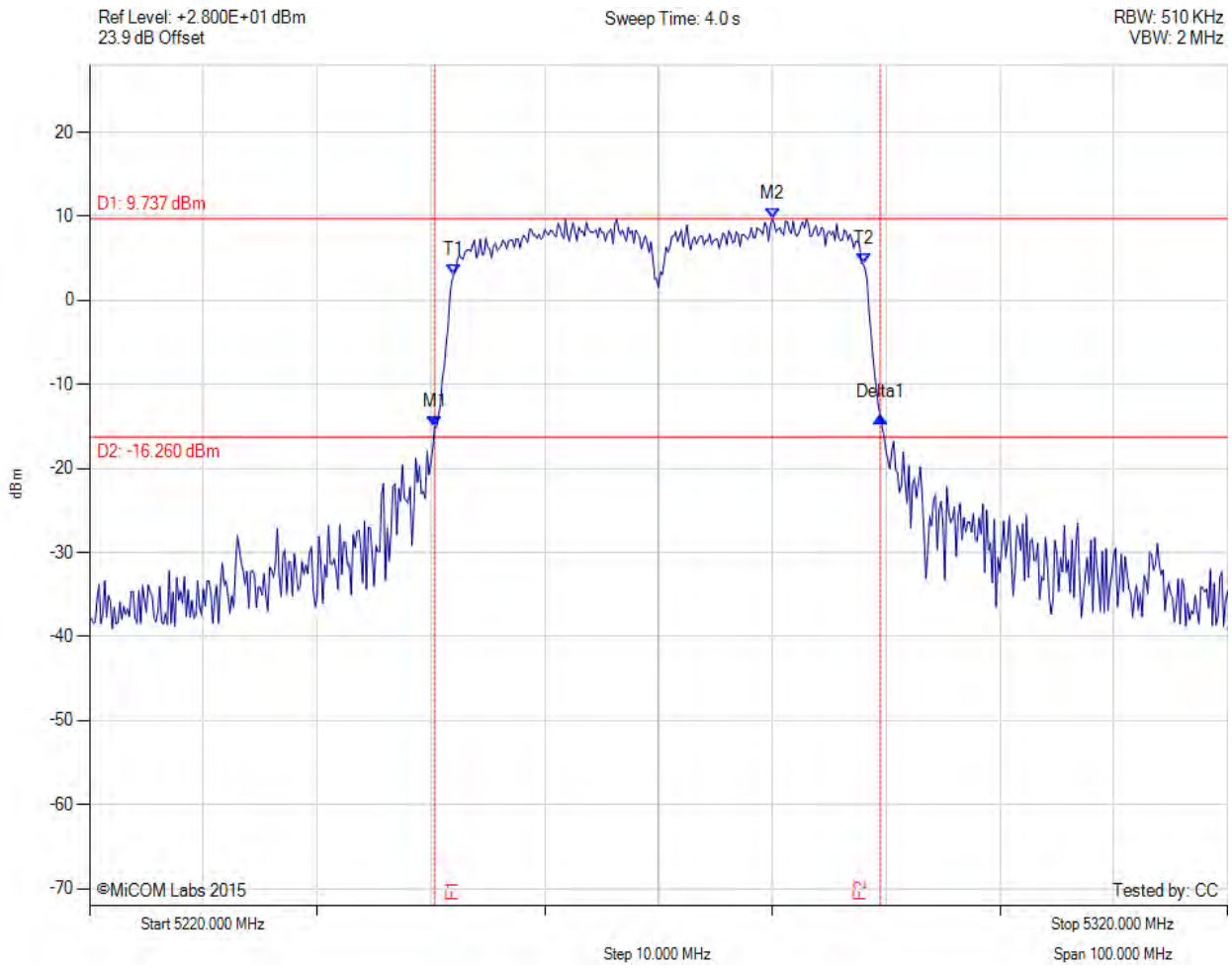


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.330 MHz : -16.273 dBm M2 : 5283.170 MHz : 9.279 dBm Delta1 : 39.330 MHz : 2.995 dB T1 : 5252.000 MHz : 3.228 dBm T2 : 5288.167 MHz : 4.773 dBm OBW : 36.133 MHz	Measured 26 dB Bandwidth: 39.330 MHz Measured 99% Bandwidth: 36.133 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

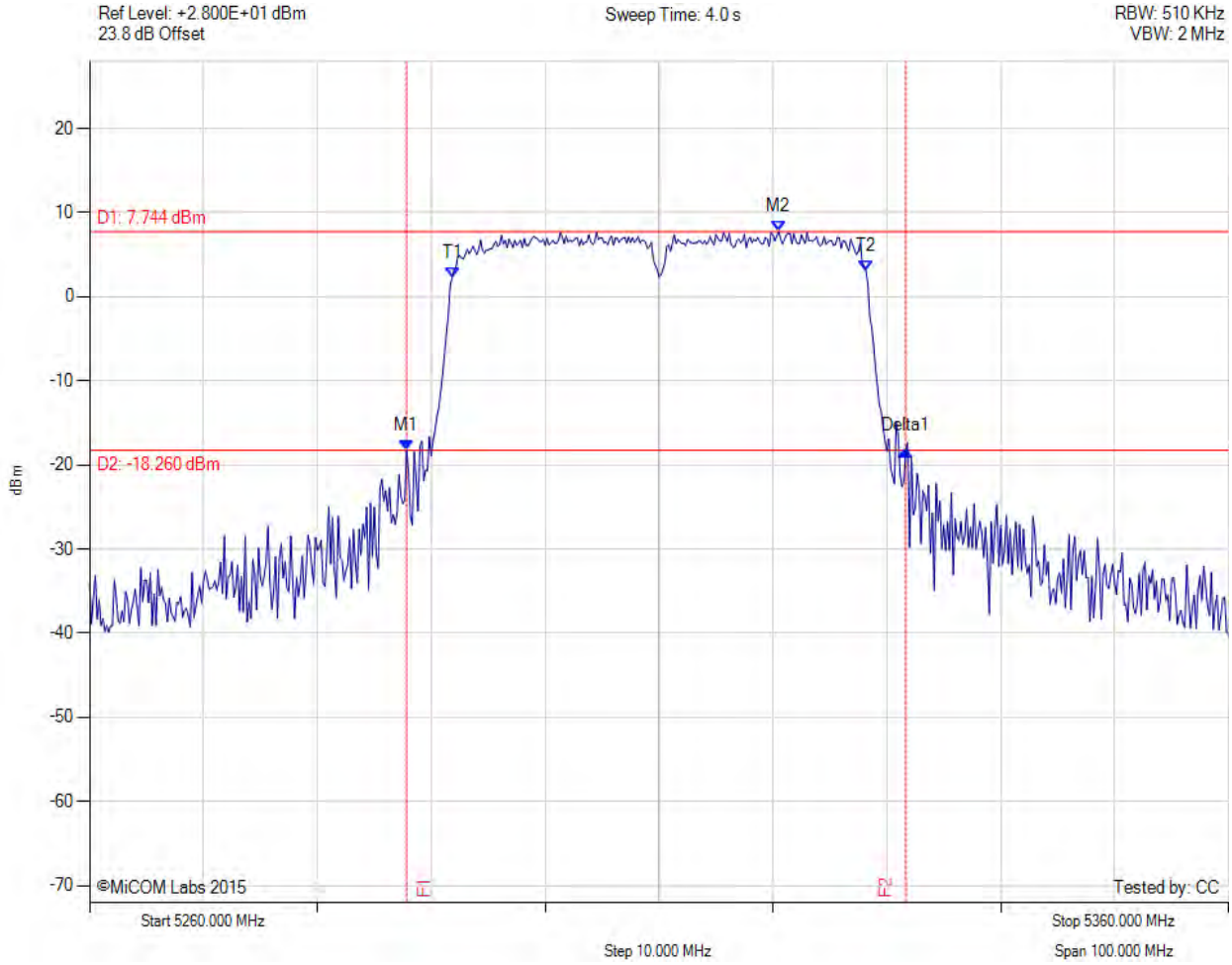


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5250.330 MHz : -15.082 dBm M2 : 5280.000 MHz : 9.737 dBm Delta1 : 39.170 MHz : 1.218 dB T1 : 5252.000 MHz : 3.041 dBm T2 : 5288.000 MHz : 4.316 dBm OBW : 35.944 MHz	Measured 26 dB Bandwidth: 39.170 MHz Measured 99% Bandwidth: 35.944 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

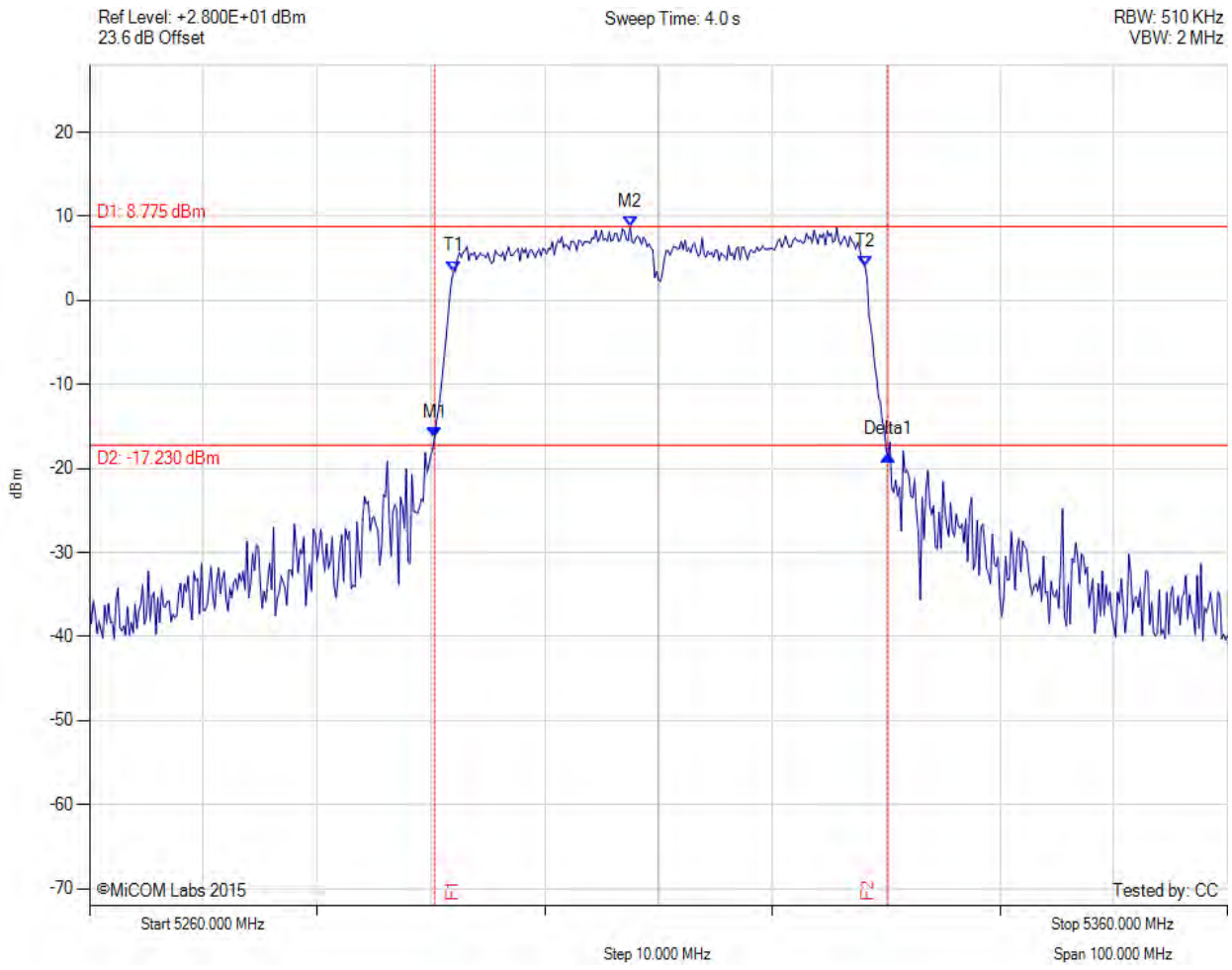


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5287.830 MHz : -18.234 dBm M2 : 5320.500 MHz : 7.744 dBm Delta1 : 43.830 MHz : 0.013 dB T1 : 5291.833 MHz : 2.256 dBm T2 : 5328.167 MHz : 3.109 dBm OBW : 36.163 MHz	Measured 26 dB Bandwidth: 43.830 MHz Measured 99% Bandwidth: 36.163 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

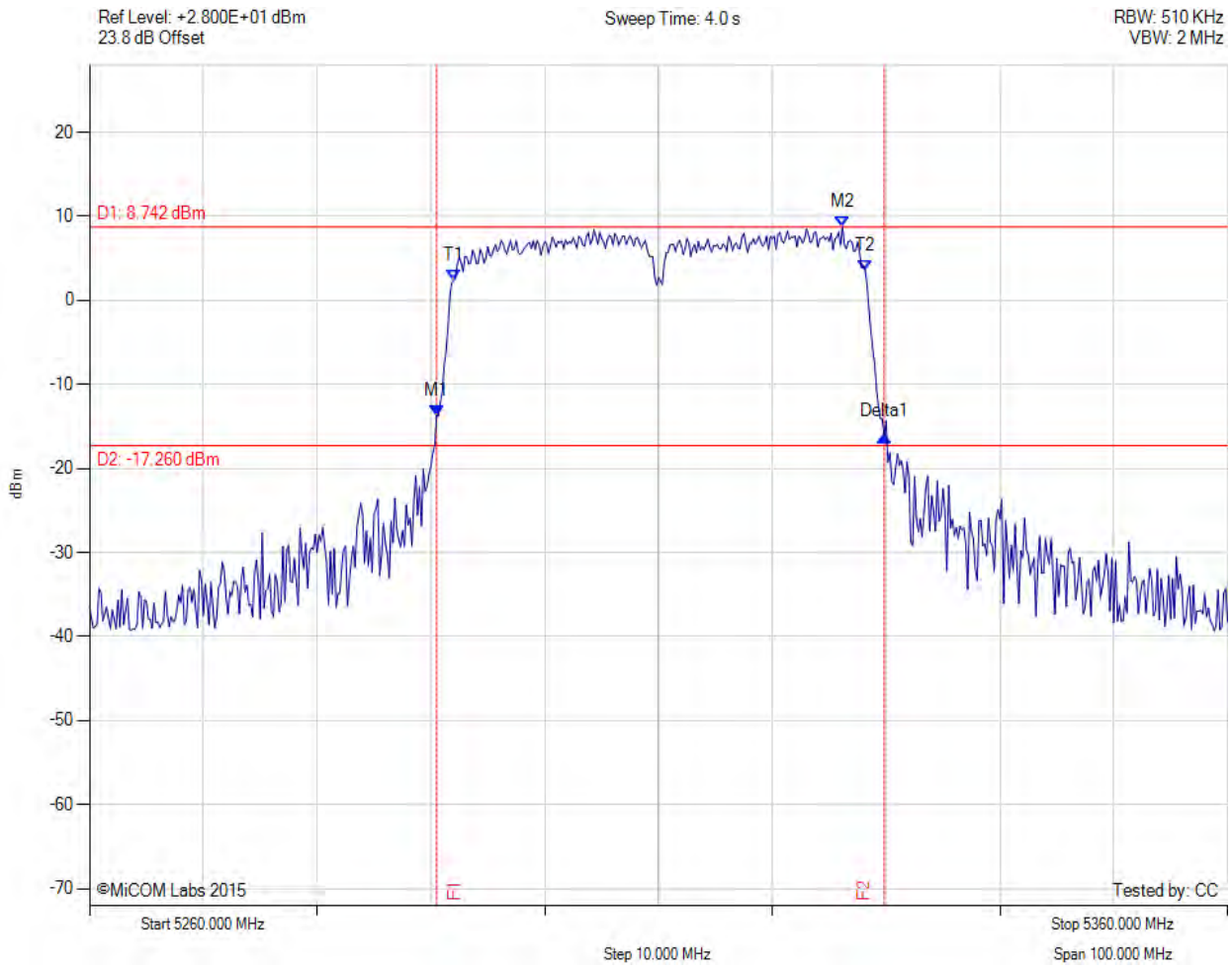


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.330 MHz : -16.306 dBm M2 : 5307.500 MHz : 8.775 dBm Delta1 : 39.830 MHz : -2.056 dB T1 : 5292.000 MHz : 3.472 dBm T2 : 5328.167 MHz : 3.998 dBm OBW : 36.217 MHz	Measured 26 dB Bandwidth: 39.830 MHz Measured 99% Bandwidth: 36.217 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

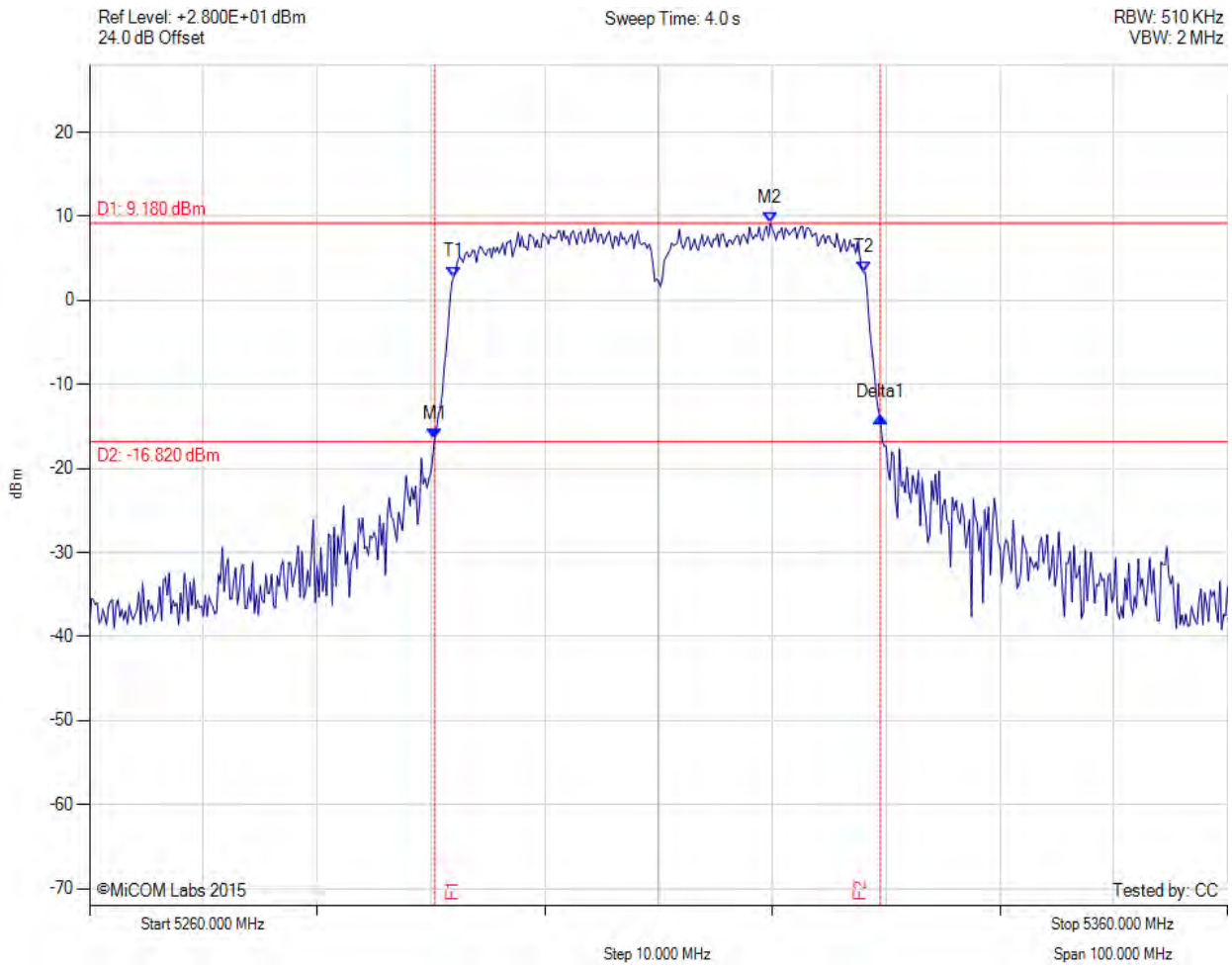


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.500 MHz : -13.685 dBm M2 : 5326.170 MHz : 8.742 dBm Delta1 : 39.330 MHz : -2.462 dB T1 : 5292.000 MHz : 2.372 dBm T2 : 5328.167 MHz : 3.536 dBm OBW : 36.084 MHz	Measured 26 dB Bandwidth: 39.330 MHz Measured 99% Bandwidth: 36.084 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

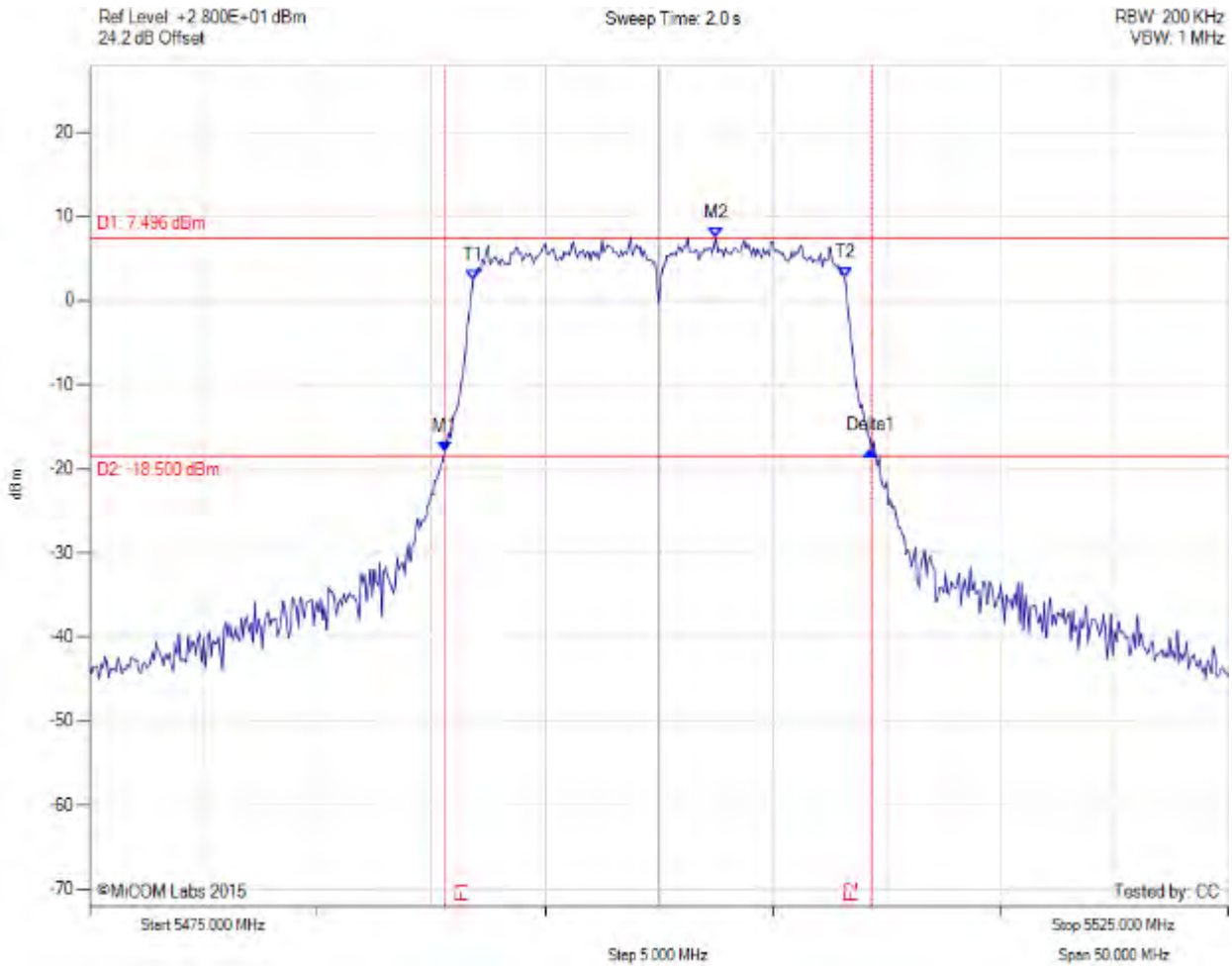


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5290.330 MHz : -16.484 dBm M2 : 5319.830 MHz : 9.180 dBm Delta1 : 39.170 MHz : 2.556 dB T1 : 5292.000 MHz : 2.816 dBm T2 : 5328.000 MHz : 3.386 dBm OBW : 35.941 MHz	Measured 26 dB Bandwidth: 39.170 MHz Measured 99% Bandwidth: 35.941 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

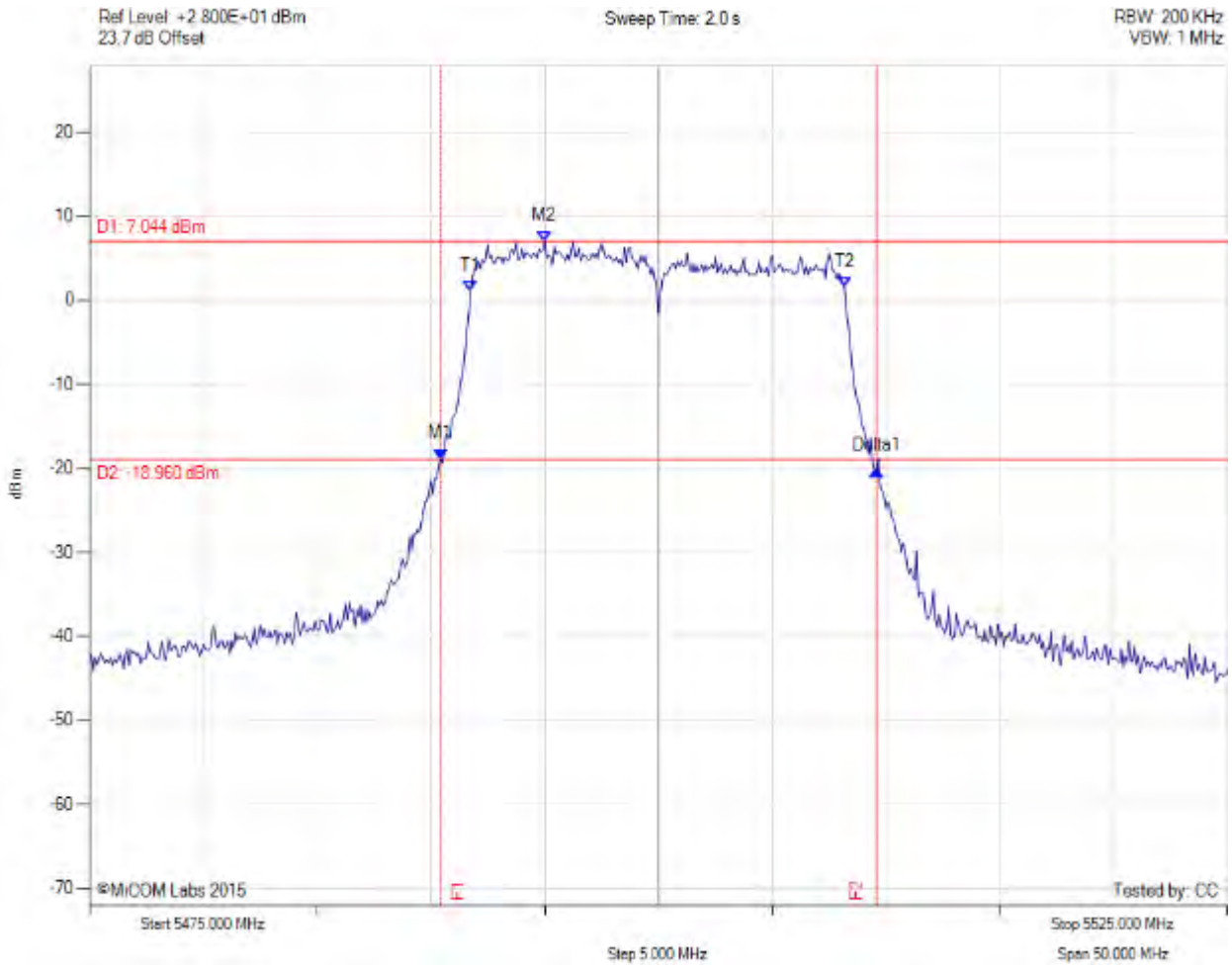


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.580 MHz : -17.934 dBm M2 : 5502.500 MHz : 7.496 dBm Delta1 : 18.750 MHz : 0.143 dB T1 : 5491.833 MHz : 2.475 dBm T2 : 5508.167 MHz : 2.670 dBm OBW : 16.353 MHz	Measured 26 dB Bandwidth: 18.750 MHz Measured 99% Bandwidth: 16.353 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

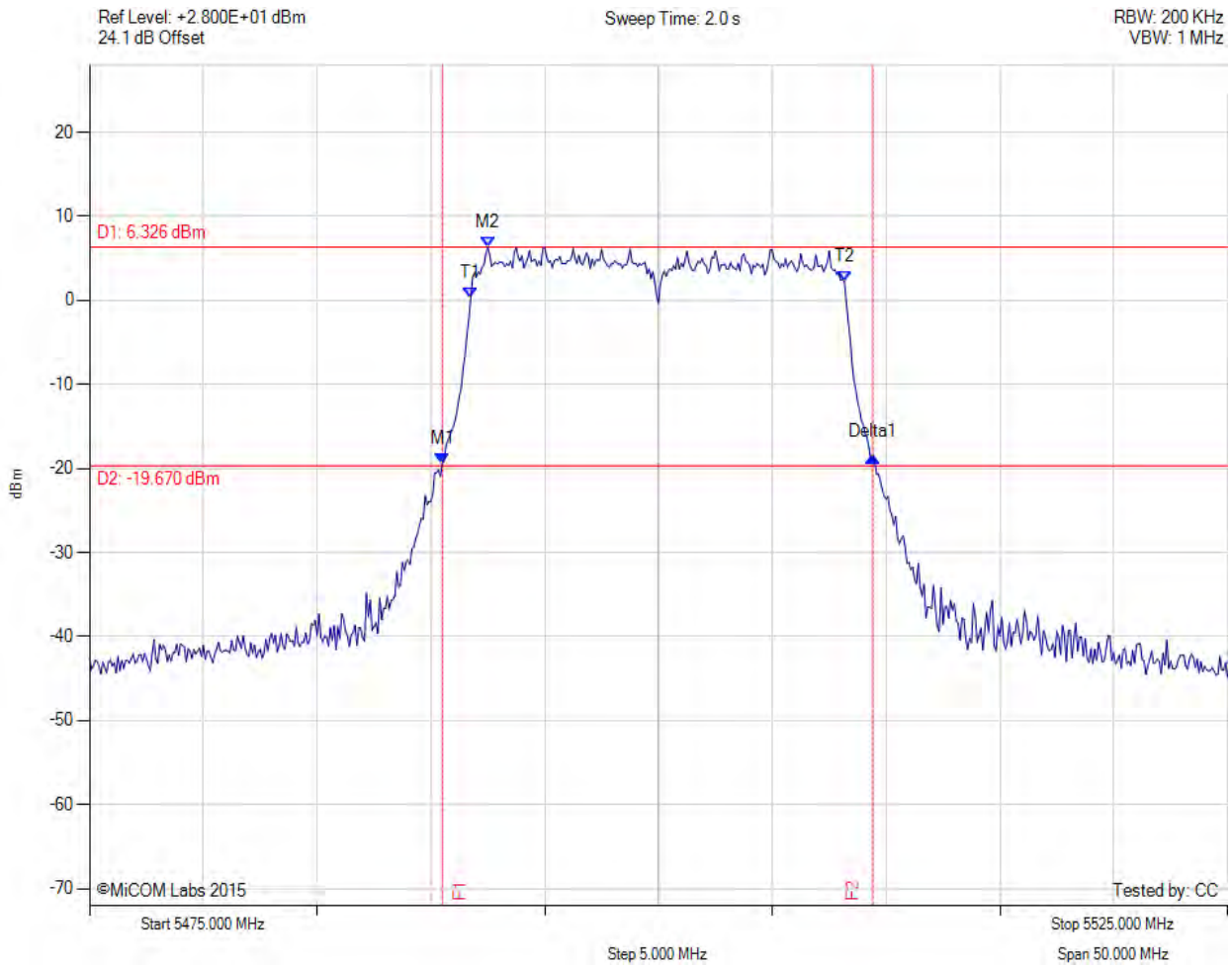


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.420 MHz : -18.845 dBm M2 : 5495.000 MHz : 7.044 dBm Delta1 : 19.170 MHz : -1.380 dB T1 : 5491.750 MHz : 1.064 dBm T2 : 5508.167 MHz : 1.659 dBm OBW : 16.399 MHz	Measured 26 dB Bandwidth: 19.170 MHz Measured 99% Bandwidth: 16.399 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

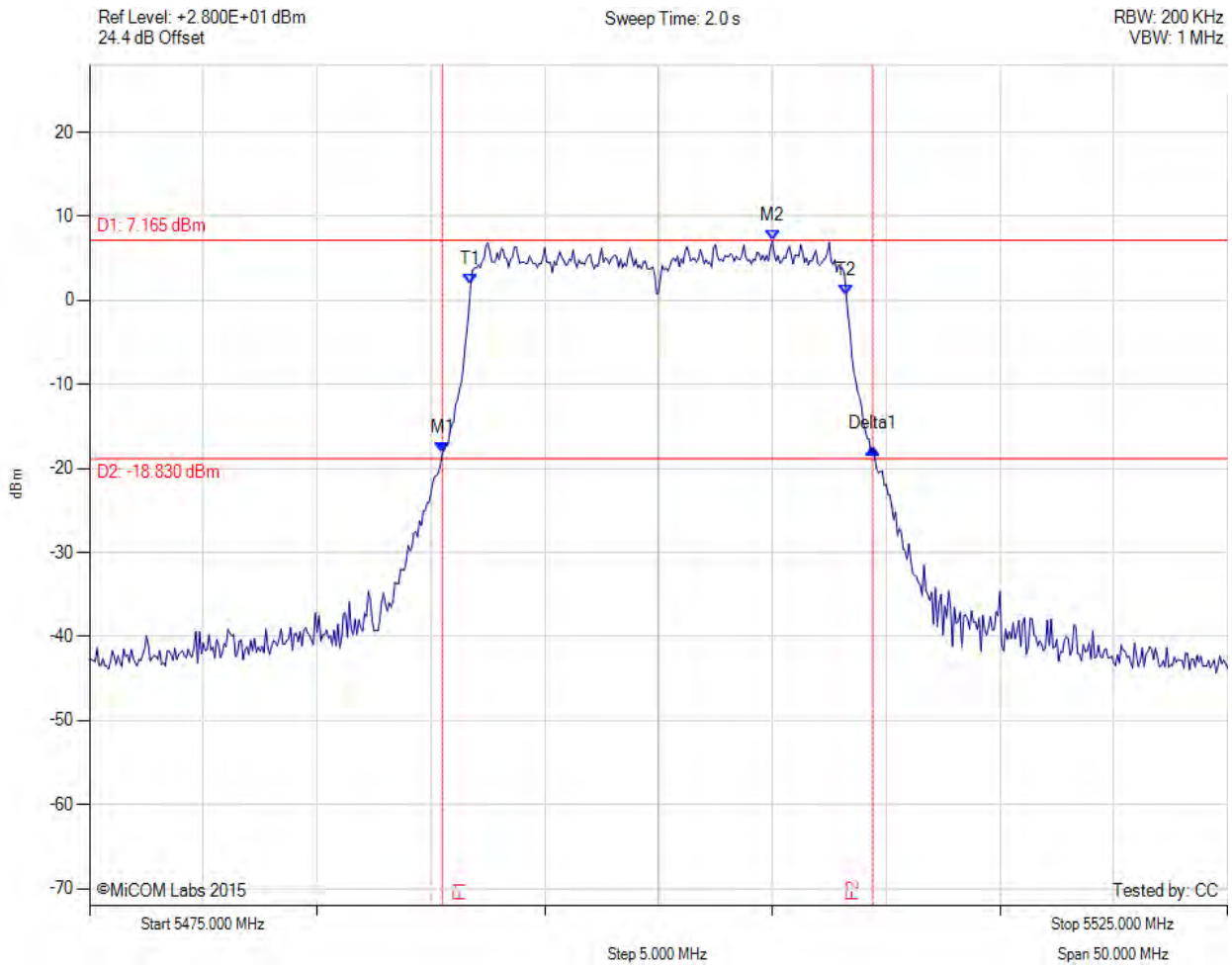


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.500 MHz : -19.419 dBm M2 : 5492.500 MHz : 6.326 dBm Delta1 : 18.920 MHz : 0.749 dB T1 : 5491.750 MHz : 0.293 dBm T2 : 5508.167 MHz : 2.283 dBm OBW : 16.402 MHz	Measured 26 dB Bandwidth: 18.920 MHz Measured 99% Bandwidth: 16.402 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

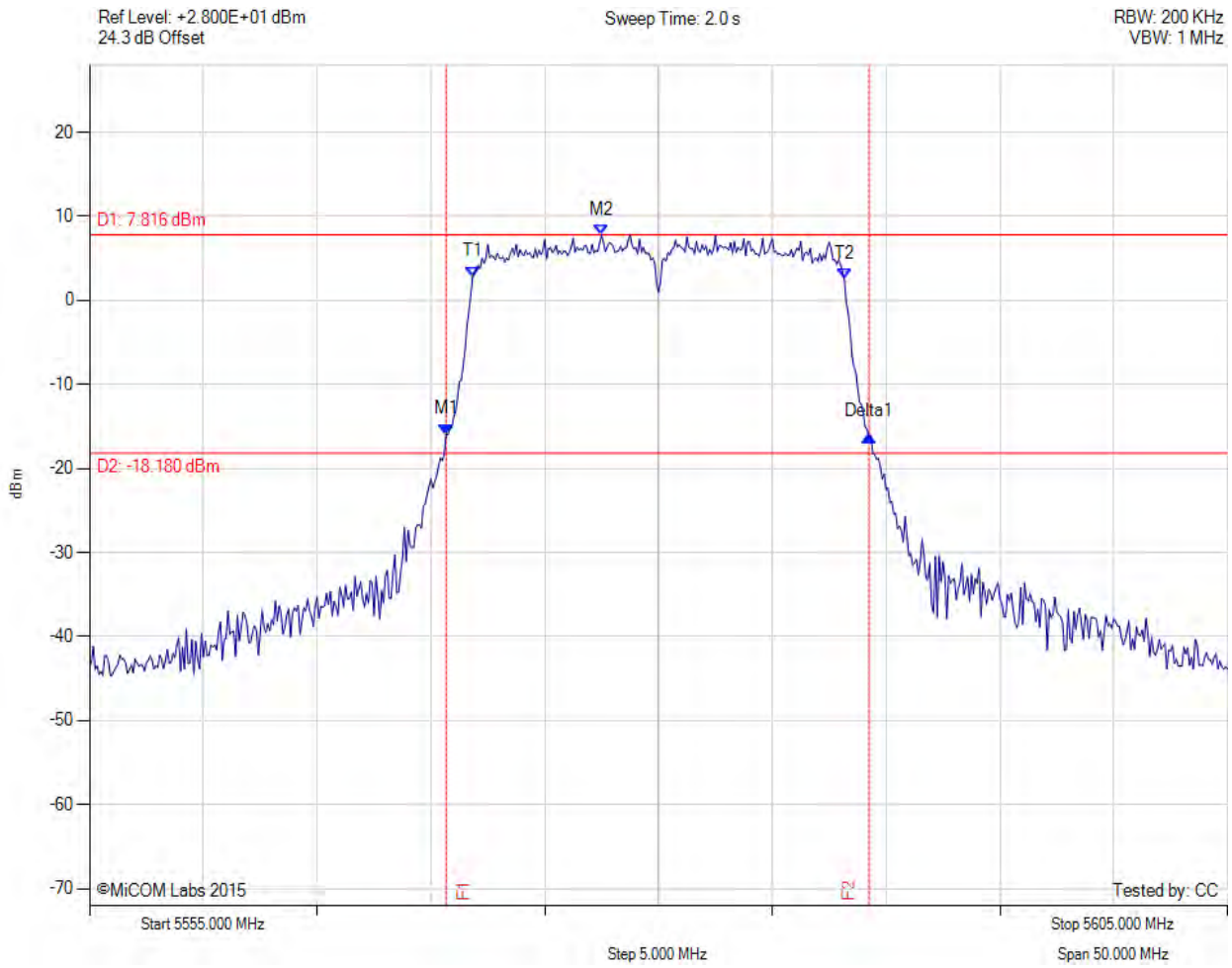


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.500 MHz : -18.151 dBm M2 : 5505.000 MHz : 7.165 dBm Delta1 : 18.920 MHz : 0.488 dB T1 : 5491.750 MHz : 1.890 dBm T2 : 5508.250 MHz : 0.606 dBm OBW : 16.431 MHz	Measured 26 dB Bandwidth: 18.920 MHz Measured 99% Bandwidth: 16.431 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

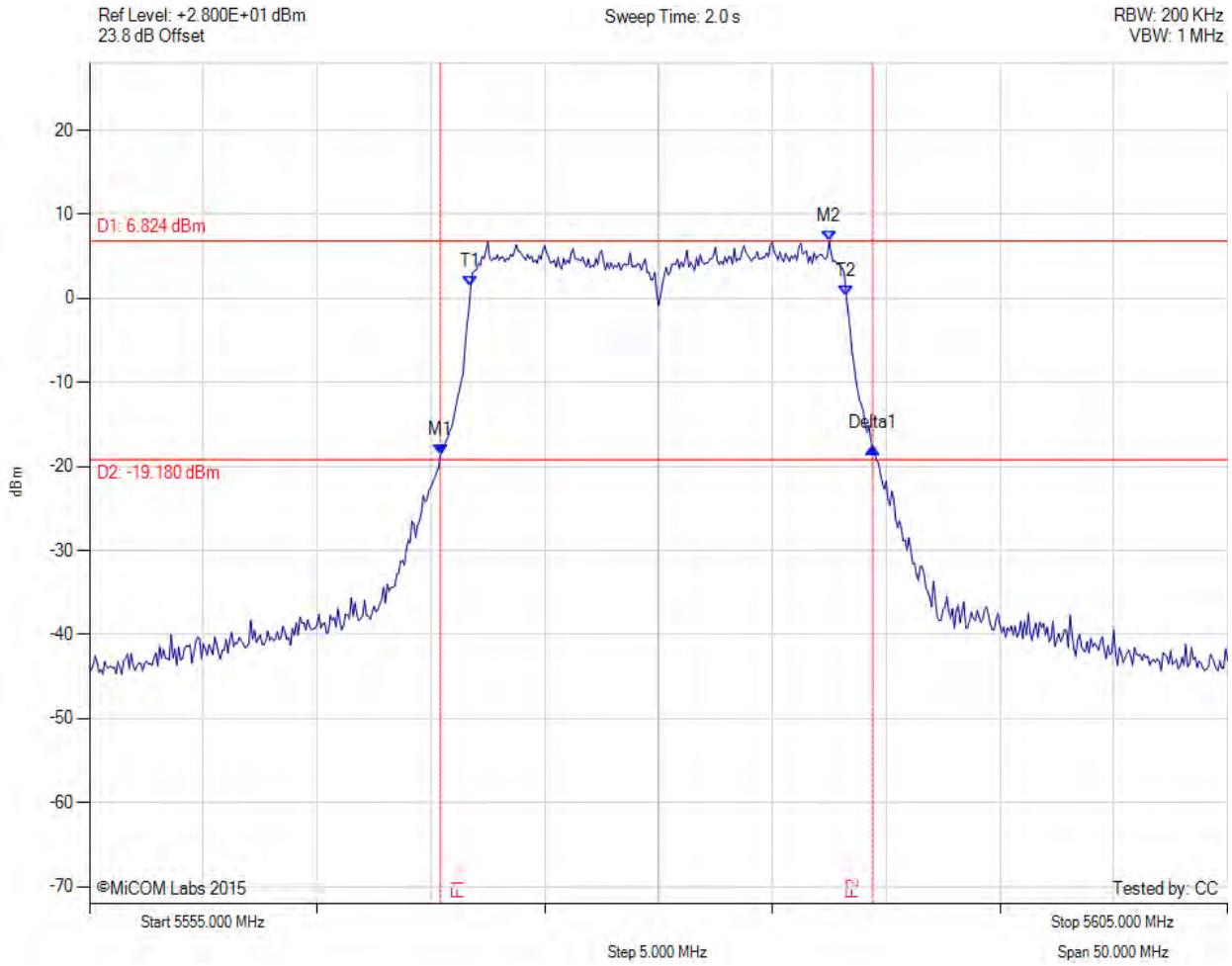


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.670 MHz : -15.927 dBm M2 : 5577.500 MHz : 7.816 dBm Delta1 : 18.580 MHz : -0.300 dB T1 : 5571.833 MHz : 2.808 dBm T2 : 5588.167 MHz : 2.527 dBm OBW : 16.344 MHz	Measured 26 dB Bandwidth: 18.580 MHz Measured 99% Bandwidth: 16.344 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

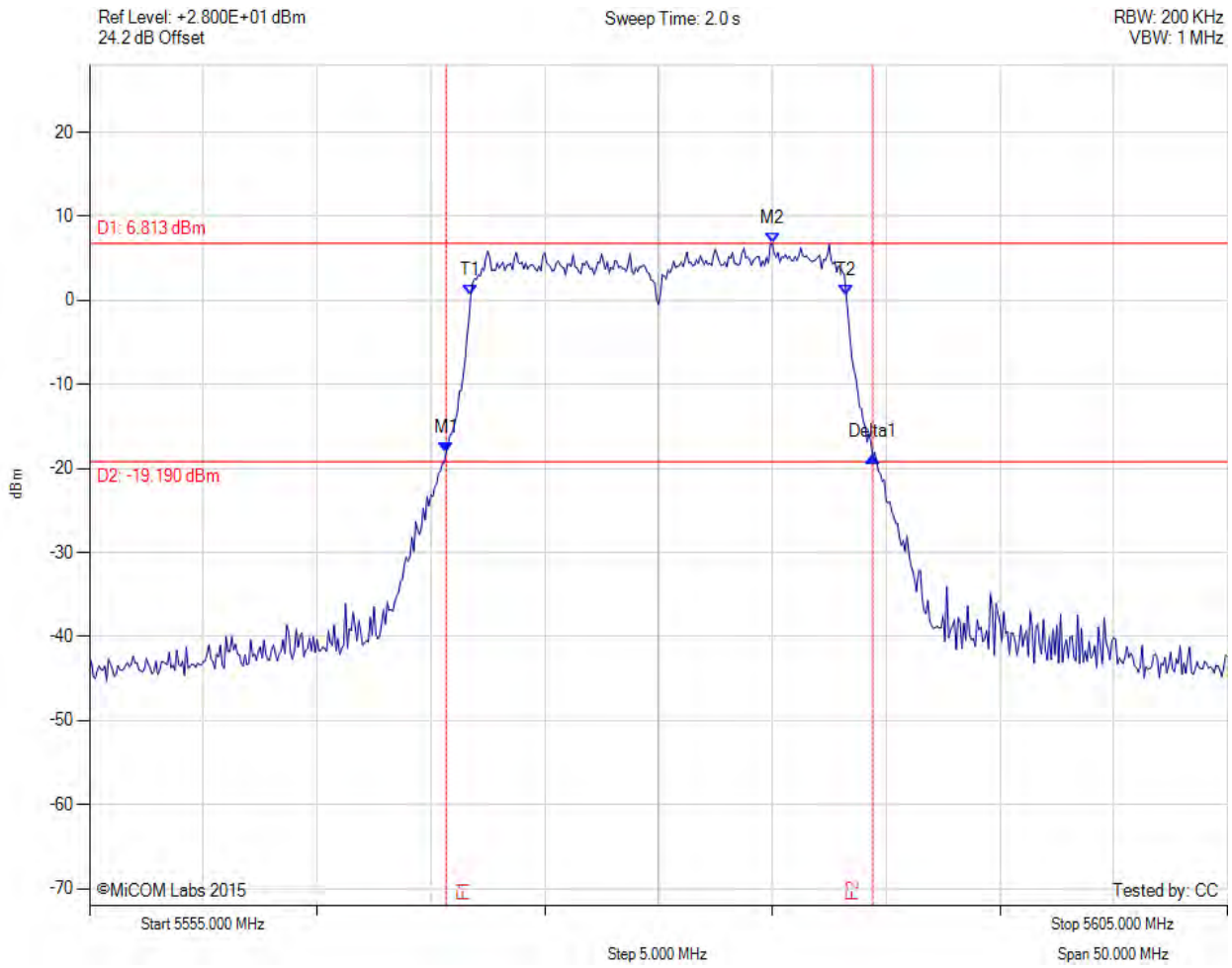


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.420 MHz : -18.566 dBm M2 : 5587.500 MHz : 6.824 dBm Delta1 : 19.000 MHz : 0.761 dB T1 : 5571.750 MHz : 1.410 dBm T2 : 5588.250 MHz : 0.231 dBm OBW : 16.453 MHz	Measured 26 dB Bandwidth: 19.000 MHz Measured 99% Bandwidth: 16.453 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

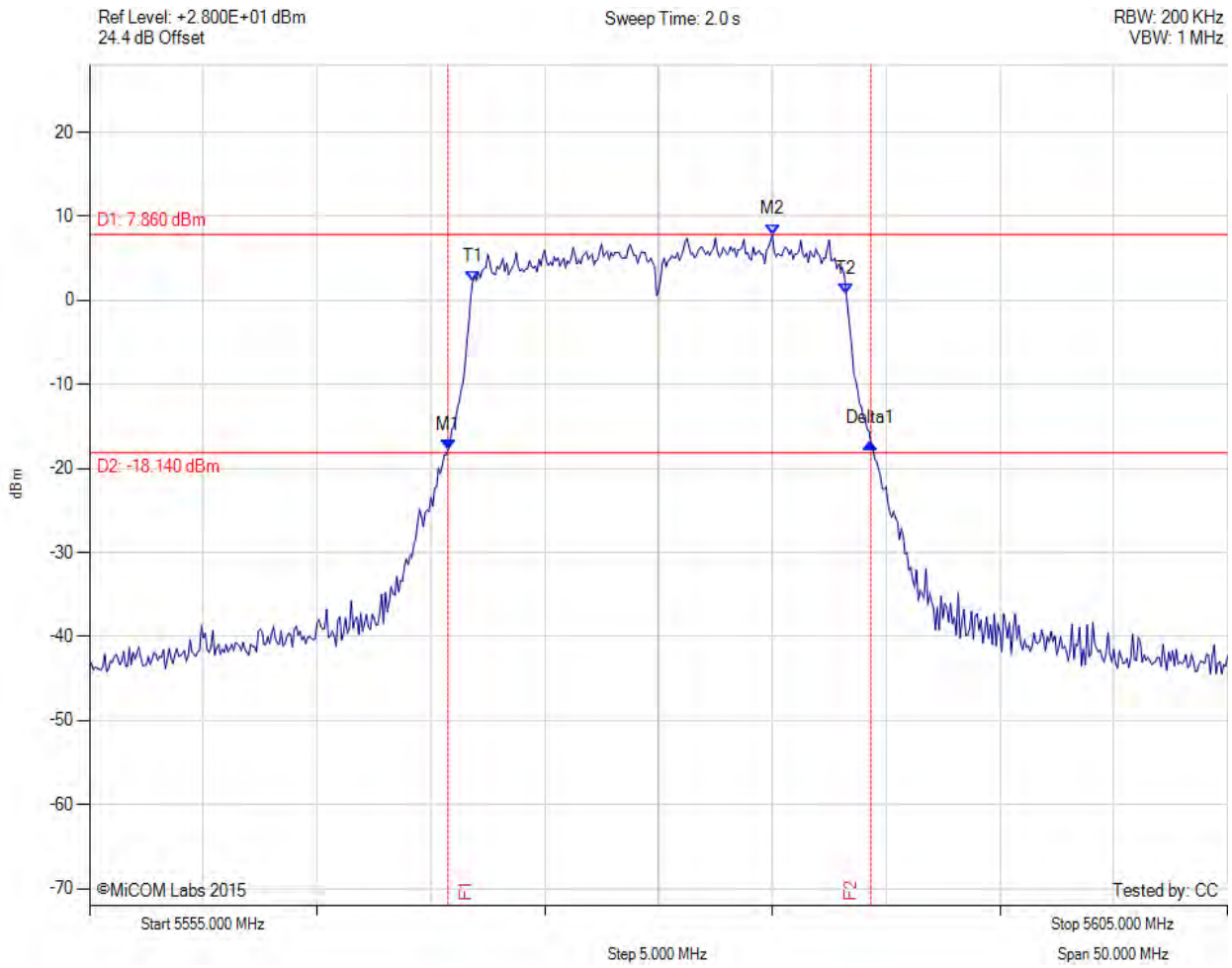


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.670 MHz : -18.047 dBm M2 : 5585.000 MHz : 6.813 dBm Delta1 : 18.750 MHz : -0.595 dB T1 : 5571.750 MHz : 0.583 dBm T2 : 5588.250 MHz : 0.575 dBm OBW : 16.423 MHz	Measured 26 dB Bandwidth: 18.750 MHz Measured 99% Bandwidth: 16.423 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

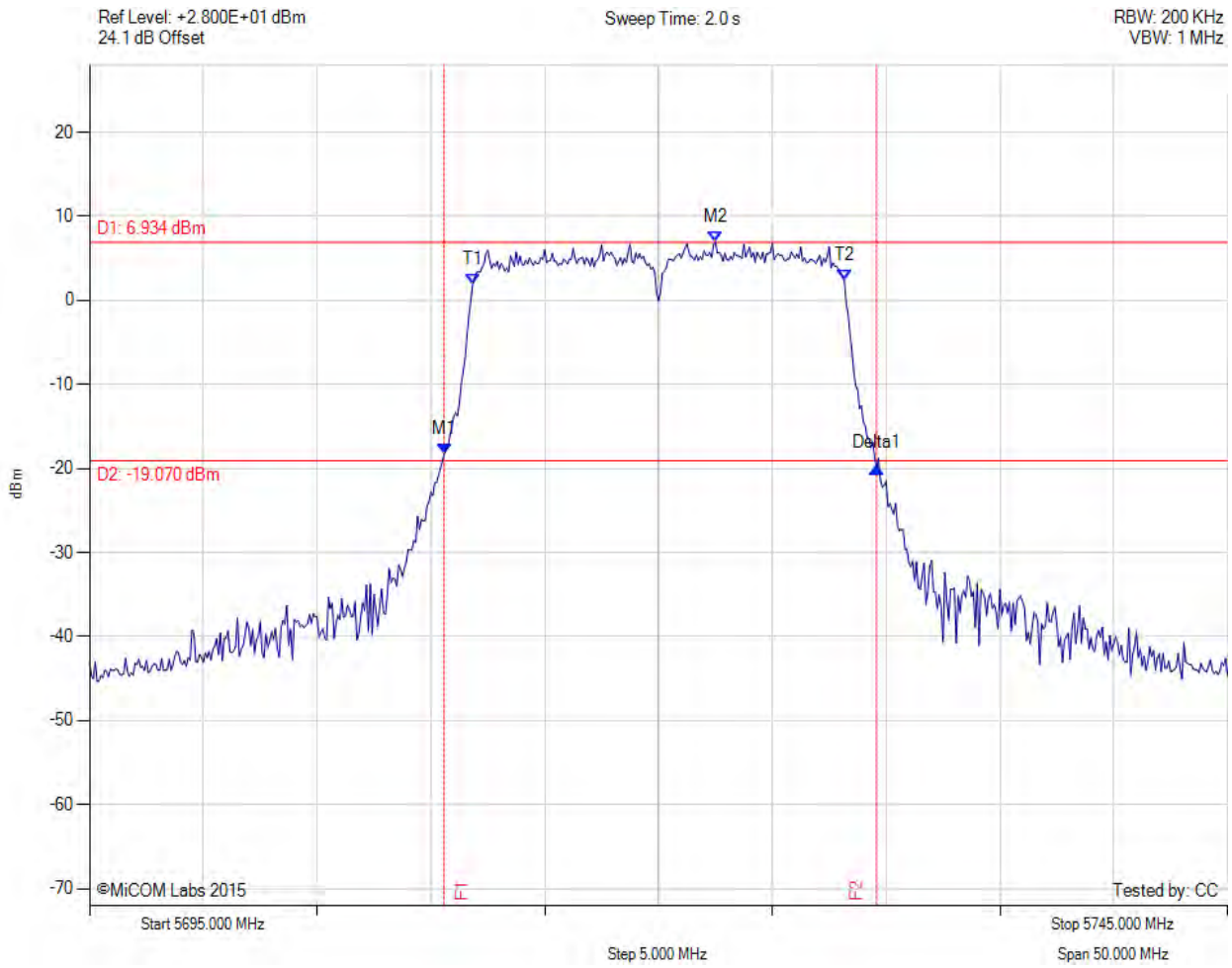


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.750 MHz : -17.788 dBm M2 : 5585.000 MHz : 7.860 dBm Delta1 : 18.580 MHz : 0.739 dB T1 : 5571.833 MHz : 2.231 dBm T2 : 5588.250 MHz : 0.749 dBm OBW : 16.365 MHz	Measured 26 dB Bandwidth: 18.580 MHz Measured 99% Bandwidth: 16.365 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

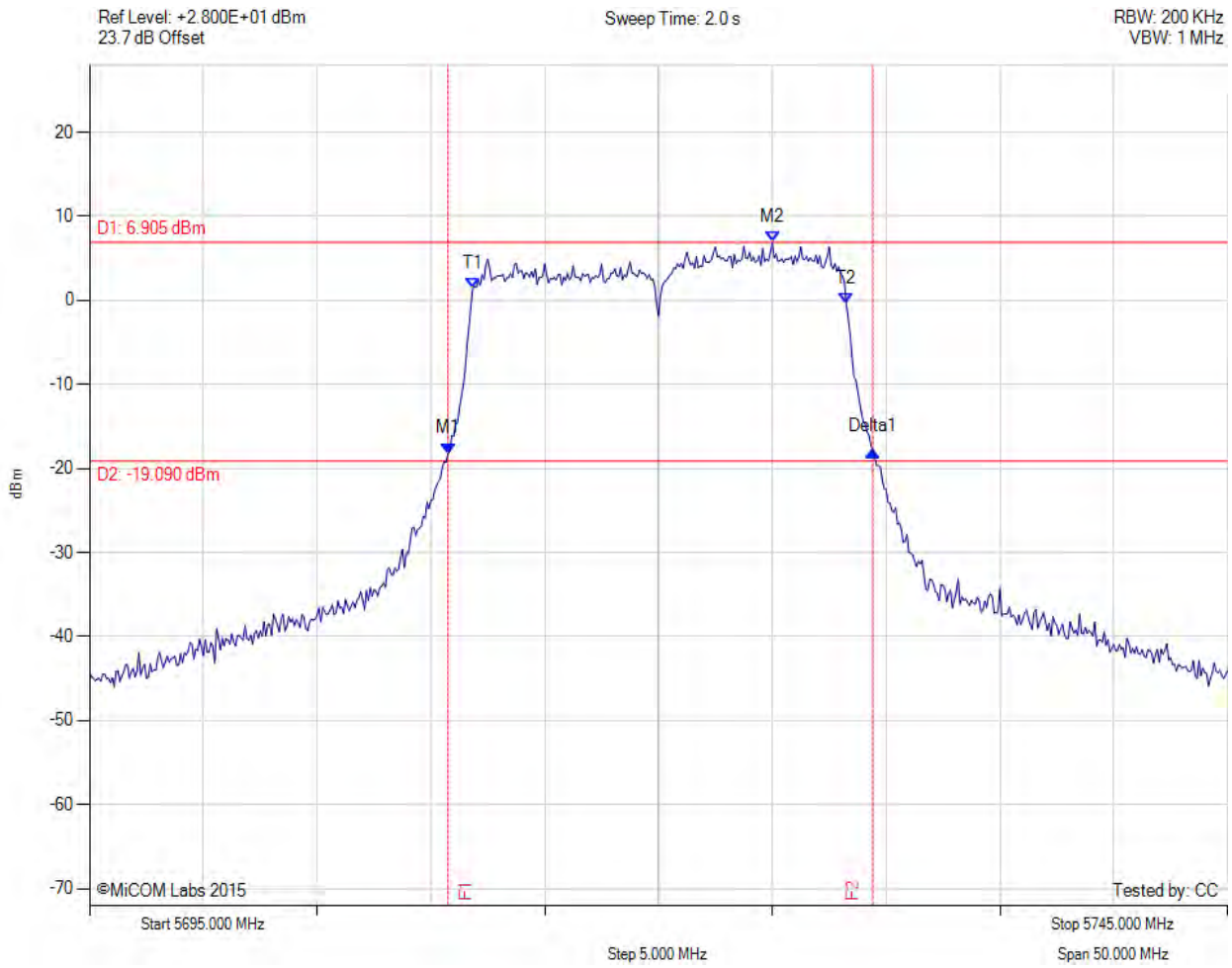


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.580 MHz : -18.216 dBm M2 : 5722.500 MHz : 6.934 dBm Delta1 : 19.000 MHz : -1.736 dB T1 : 5711.833 MHz : 1.893 dBm T2 : 5728.167 MHz : 2.365 dBm OBW : 16.370 MHz	Measured 26 dB Bandwidth: 19.000 MHz Measured 99% Bandwidth: 16.370 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

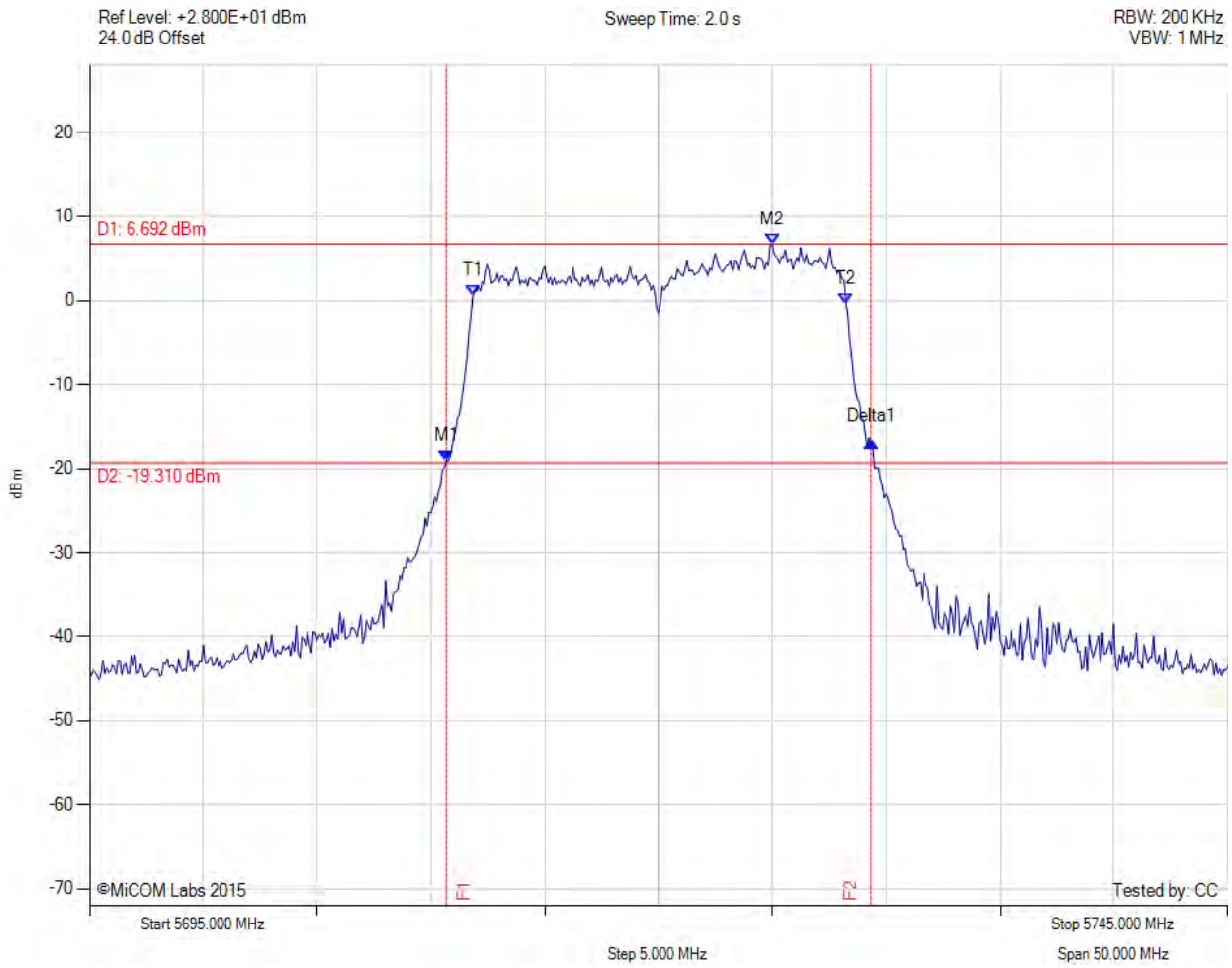


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.750 MHz : -18.194 dBm M2 : 5725.000 MHz : 6.905 dBm Delta1 : 18.670 MHz : 0.264 dB T1 : 5711.833 MHz : 1.384 dBm T2 : 5728.250 MHz : -0.415 dBm OBW : 16.415 MHz	Measured 26 dB Bandwidth: 18.670 MHz Measured 99% Bandwidth: 16.415 MHz

back to matrix

26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.670 MHz : -19.072 dBm M2 : 5725.000 MHz : 6.692 dBm Delta1 : 18.670 MHz : 2.275 dB T1 : 5711.833 MHz : 0.566 dBm T2 : 5728.250 MHz : -0.330 dBm OBW : 16.411 MHz	Measured 26 dB Bandwidth: 18.670 MHz Measured 99% Bandwidth: 16.411 MHz

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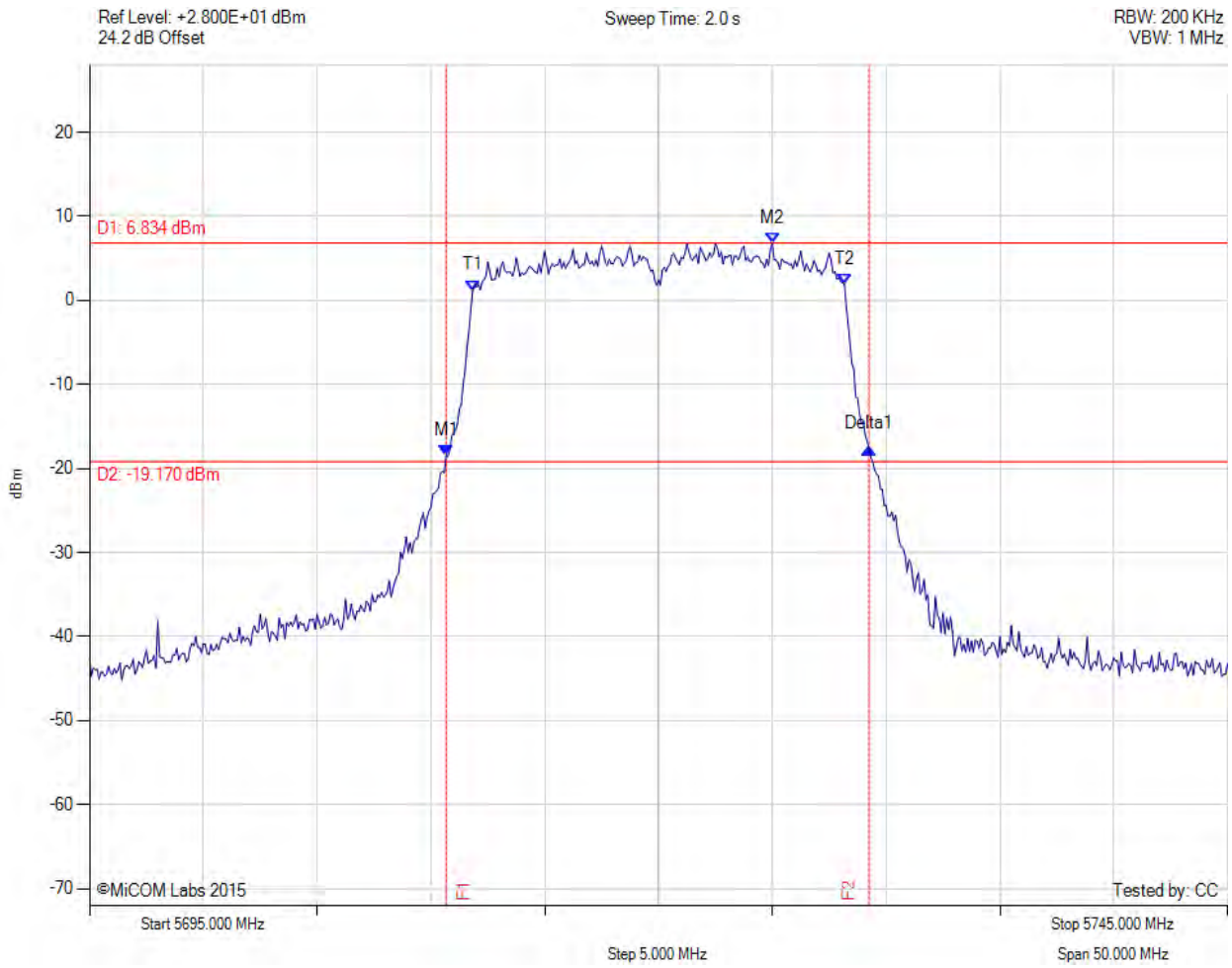
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.670 MHz : -18.494 dBm M2 : 5725.000 MHz : 6.834 dBm Delta1 : 18.580 MHz : 0.823 dB T1 : 5711.833 MHz : 1.186 dBm T2 : 5728.167 MHz : 1.987 dBm OBW : 16.326 MHz	Measured 26 dB Bandwidth: 18.580 MHz Measured 99% Bandwidth: 16.326 MHz

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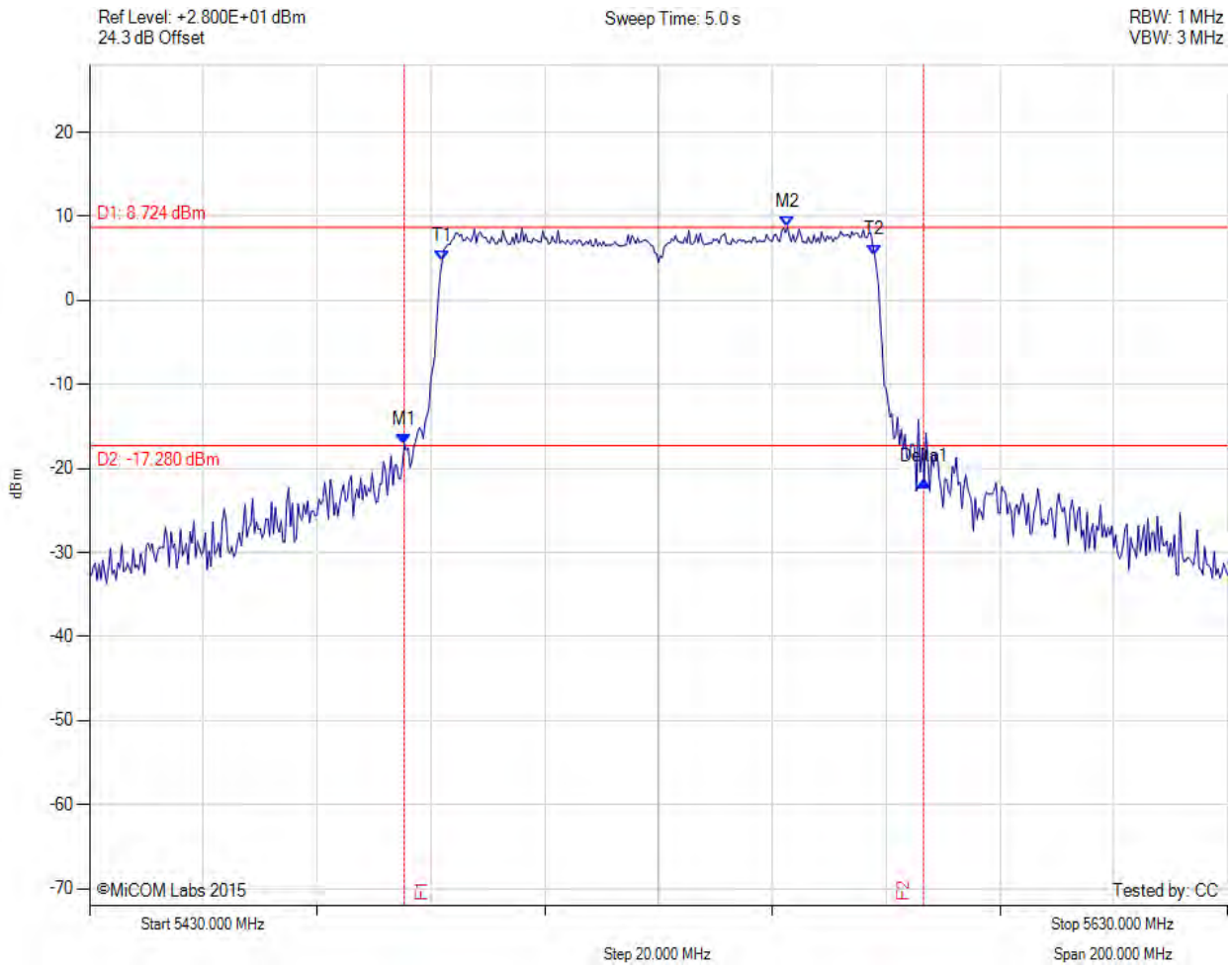
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5485.300 MHz : -17.069 dBm M2 : 5552.700 MHz : 8.724 dBm Delta1 : 91.300 MHz : -4.450 dB T1 : 5492.000 MHz : 4.734 dBm T2 : 5568.000 MHz : 5.427 dBm OBW : 76.088 MHz	Measured 26 dB Bandwidth: 91.300 MHz Measured 99% Bandwidth: 76.088 MHz

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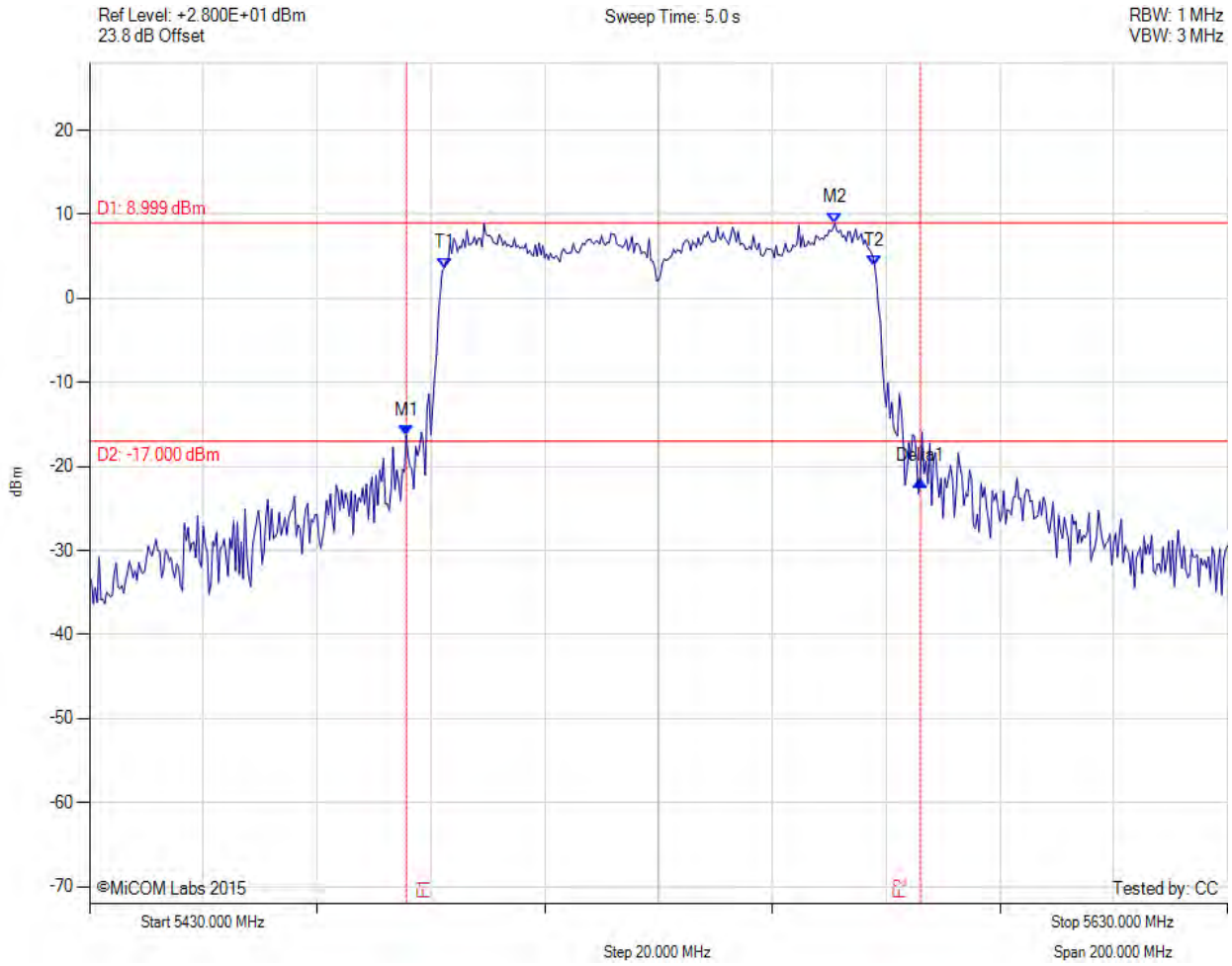
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5485.700 MHz : -16.330 dBm M2 : 5561.000 MHz : 8.999 dBm Delta1 : 90.300 MHz : -5.317 dB T1 : 5492.333 MHz : 3.629 dBm T2 : 5568.000 MHz : 3.840 dBm OBW : 75.747 MHz	Measured 26 dB Bandwidth: 90.300 MHz Measured 99% Bandwidth: 75.747 MHz

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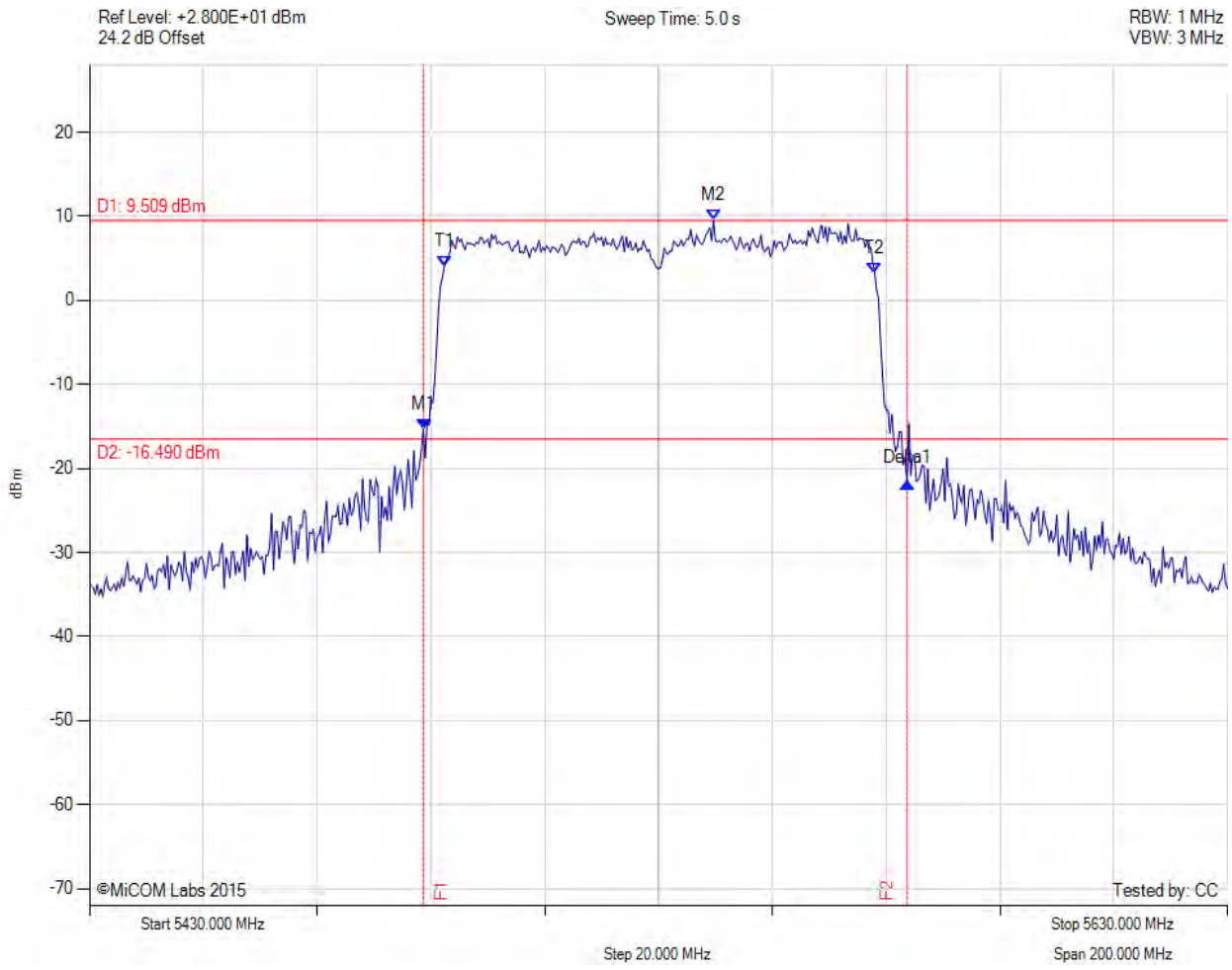
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5488.700 MHz : -15.303 dBm M2 : 5539.700 MHz : 9.509 dBm Delta1 : 85.000 MHz : -6.404 dB T1 : 5492.333 MHz : 4.042 dBm T2 : 5568.000 MHz : 3.272 dBm OBW : 75.531 MHz	Measured 26 dB Bandwidth: 85.000 MHz Measured 99% Bandwidth: 75.531 MHz

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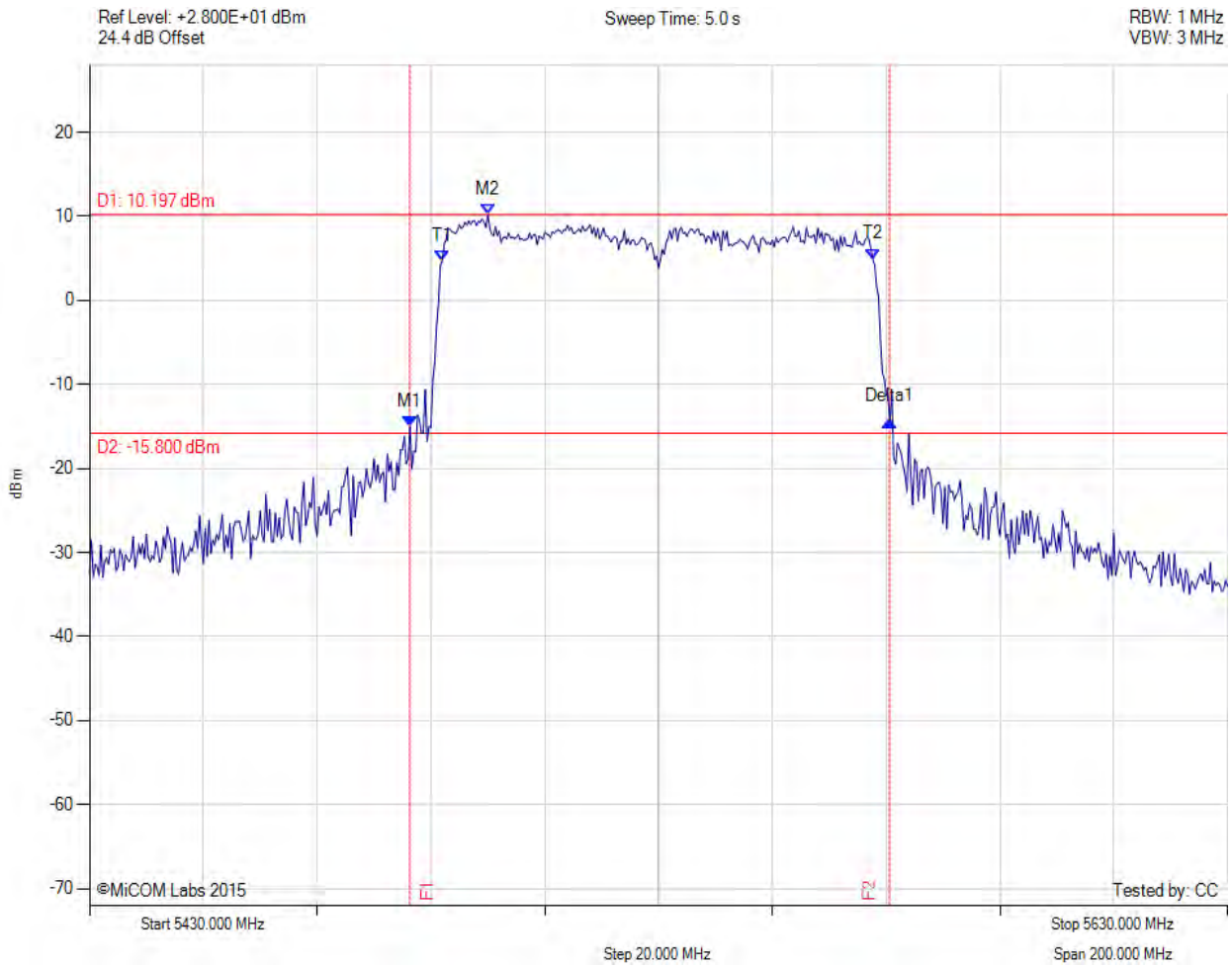
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5486.300 MHz : -15.054 dBm M2 : 5500.000 MHz : 10.197 dBm Delta1 : 84.300 MHz : 0.745 dB T1 : 5492.000 MHz : 4.754 dBm T2 : 5567.667 MHz : 4.925 dBm OBW : 75.703 MHz	Measured 26 dB Bandwidth: 84.300 MHz Measured 99% Bandwidth: 75.703 MHz

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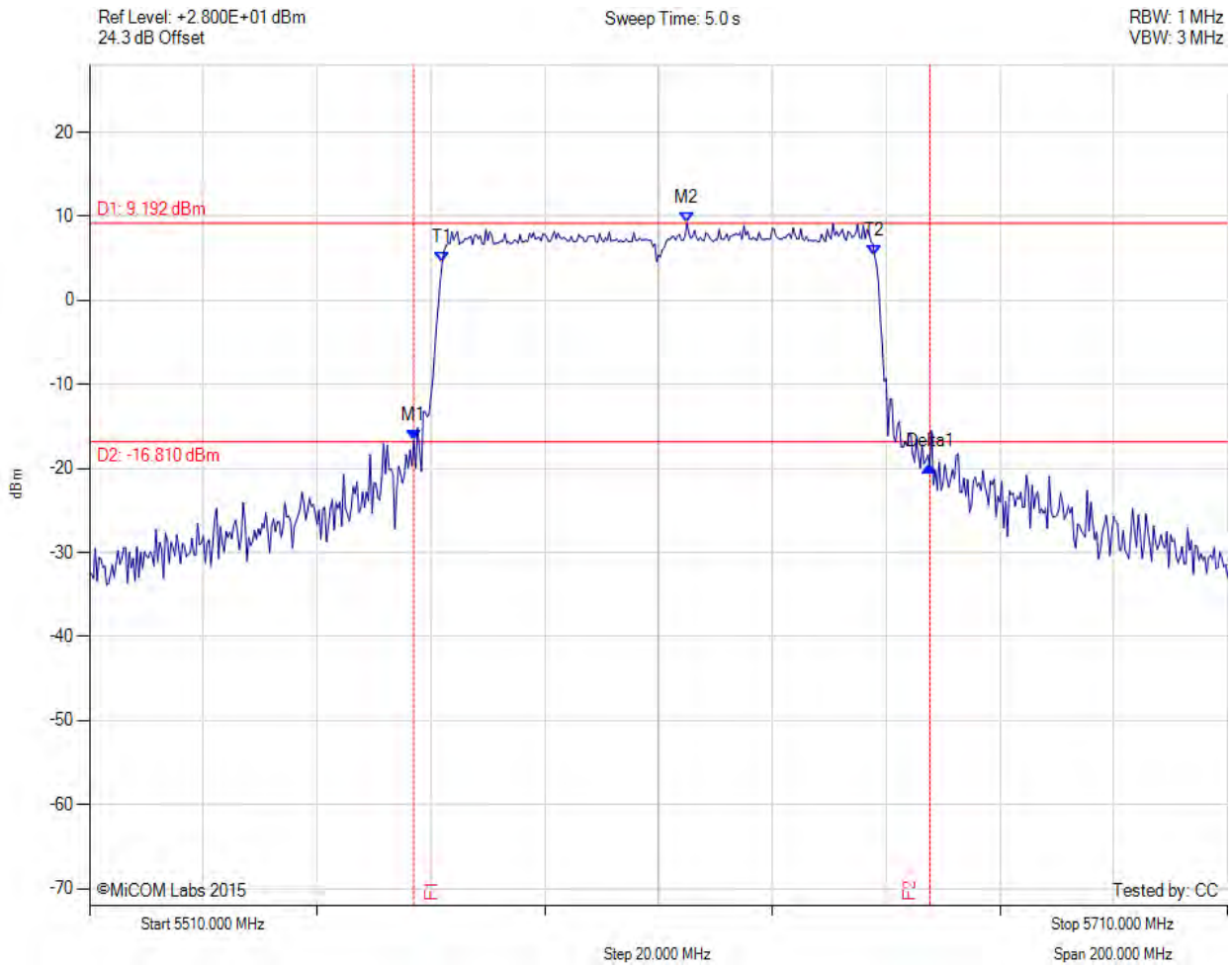
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5567.000 MHz : -16.647 dBm M2 : 5615.000 MHz : 9.192 dBm Delta1 : 90.700 MHz : -3.107 dB T1 : 5572.000 MHz : 4.584 dBm T2 : 5648.000 MHz : 5.271 dBm OBW : 75.976 MHz	Measured 26 dB Bandwidth: 90.700 MHz Measured 99% Bandwidth: 75.976 MHz

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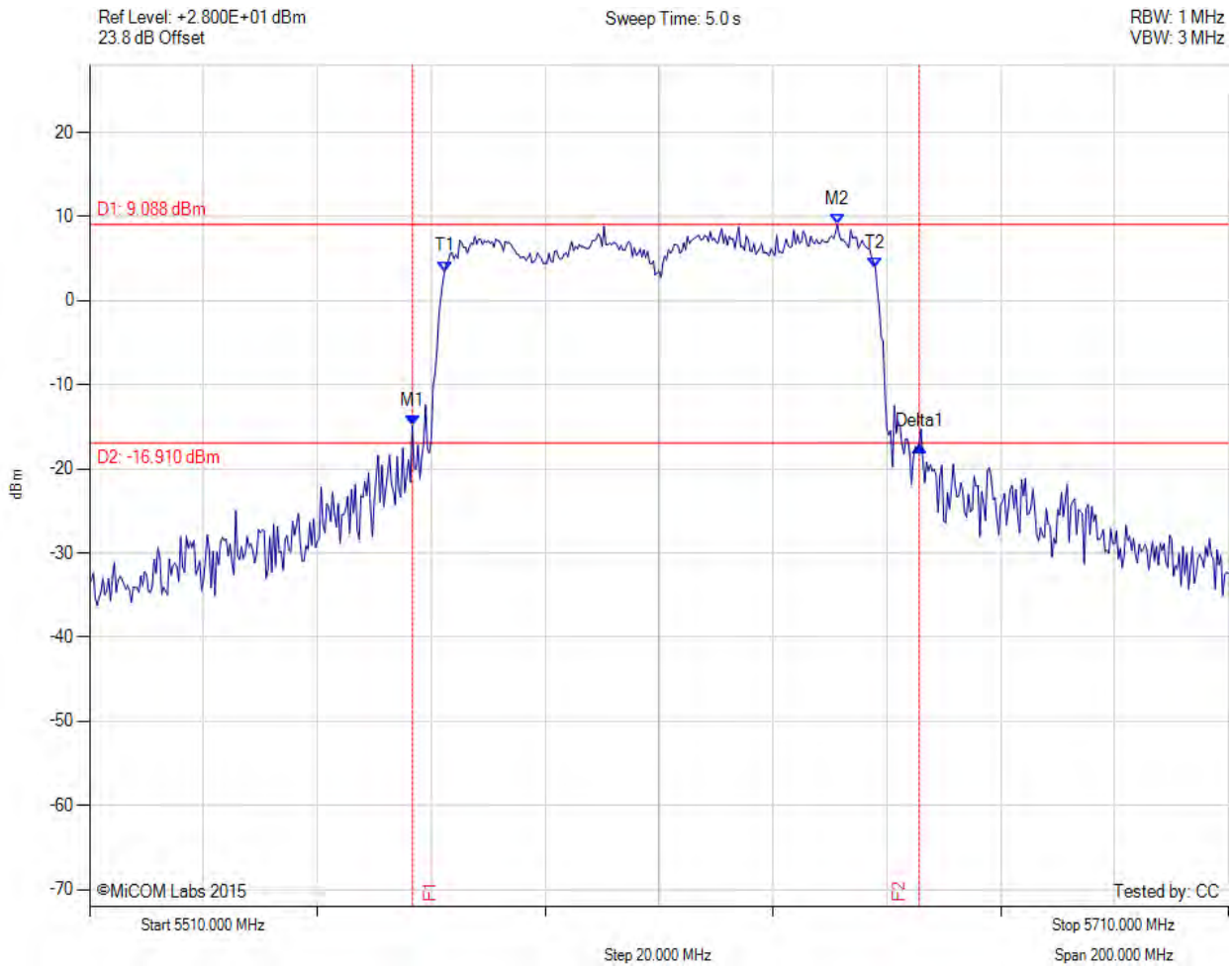
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5566.700 MHz : -14.851 dBm M2 : 5641.300 MHz : 9.088 dBm Delta1 : 89.000 MHz : -2.391 dB T1 : 5572.333 MHz : 3.467 dBm T2 : 5648.000 MHz : 3.828 dBm OBW : 75.599 MHz	Measured 26 dB Bandwidth: 89.000 MHz Measured 99% Bandwidth: 75.599 MHz

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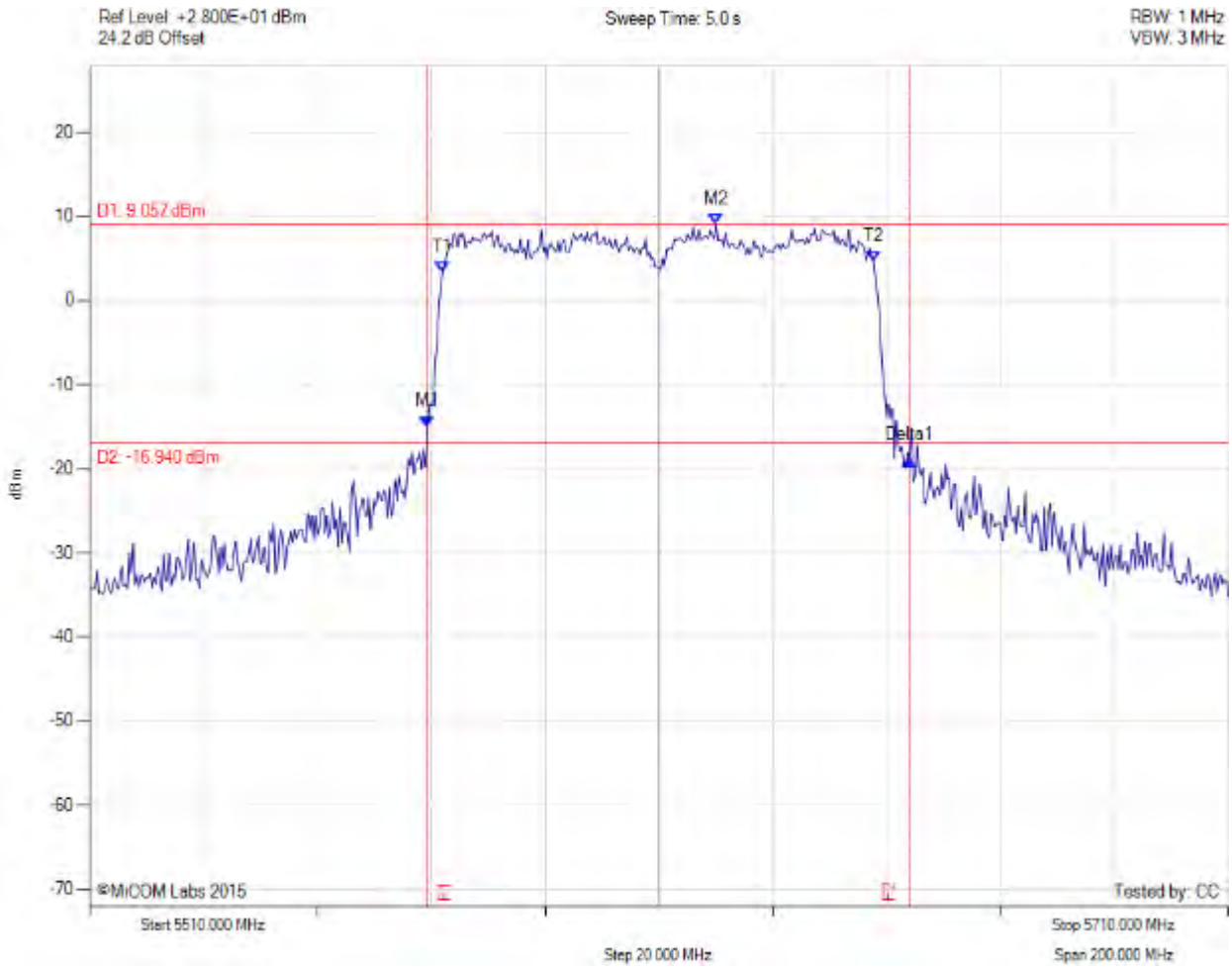
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5569.300 MHz : -14.951 dBm M2 : 5620.000 MHz : 9.057 dBm Delta1 : 84.700 MHz : -3.919 dB T1 : 5572.000 MHz : 3.438 dBm T2 : 5647.667 MHz : 4.679 dBm OBW : 75.494 MHz	Measured 26 dB Bandwidth: 84.700 MHz Measured 99% Bandwidth: 75.494 MHz

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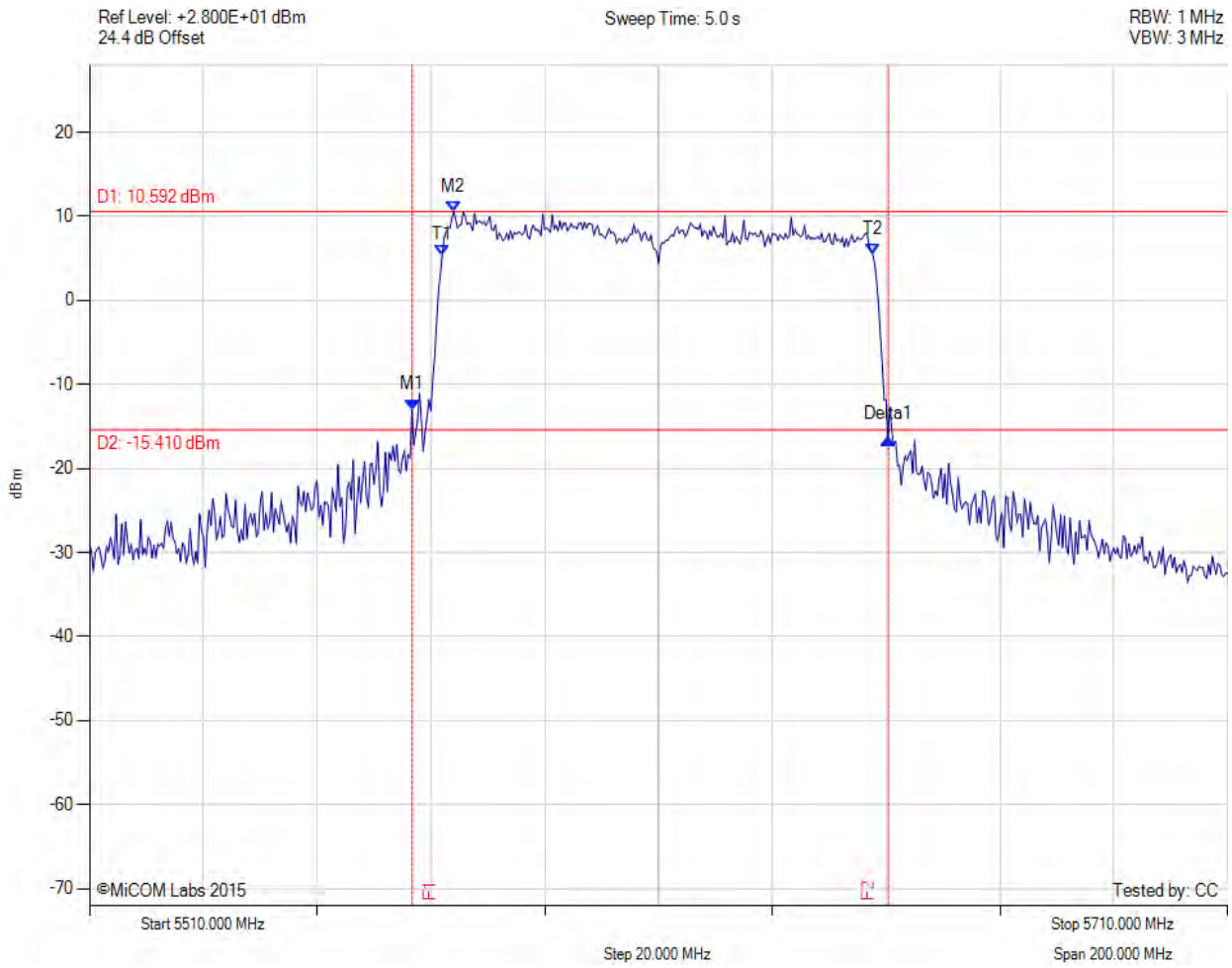
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5566.700 MHz : -12.983 dBm M2 : 5574.000 MHz : 10.592 dBm Delta1 : 83.700 MHz : -3.501 dB T1 : 5572.000 MHz : 5.410 dBm T2 : 5647.667 MHz : 5.439 dBm OBW : 75.603 MHz	Measured 26 dB Bandwidth: 83.700 MHz Measured 99% Bandwidth: 75.603 MHz

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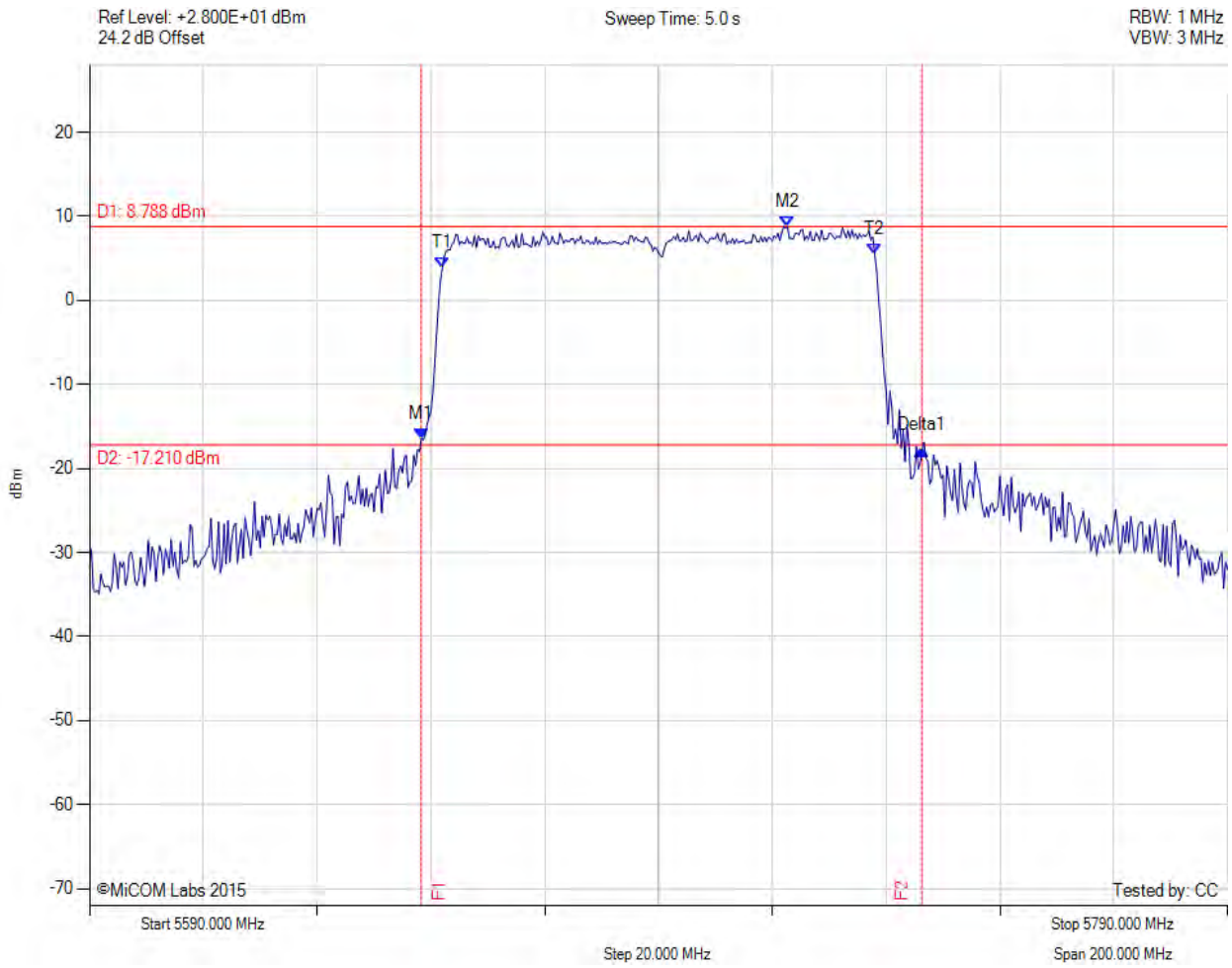
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5648.300 MHz : -16.430 dBm M2 : 5712.700 MHz : 8.788 dBm Delta1 : 88.000 MHz : -1.393 dB T1 : 5652.000 MHz : 3.831 dBm T2 : 5728.000 MHz : 5.504 dBm OBW : 75.854 MHz	Measured 26 dB Bandwidth: 88.000 MHz Measured 99% Bandwidth: 75.854 MHz

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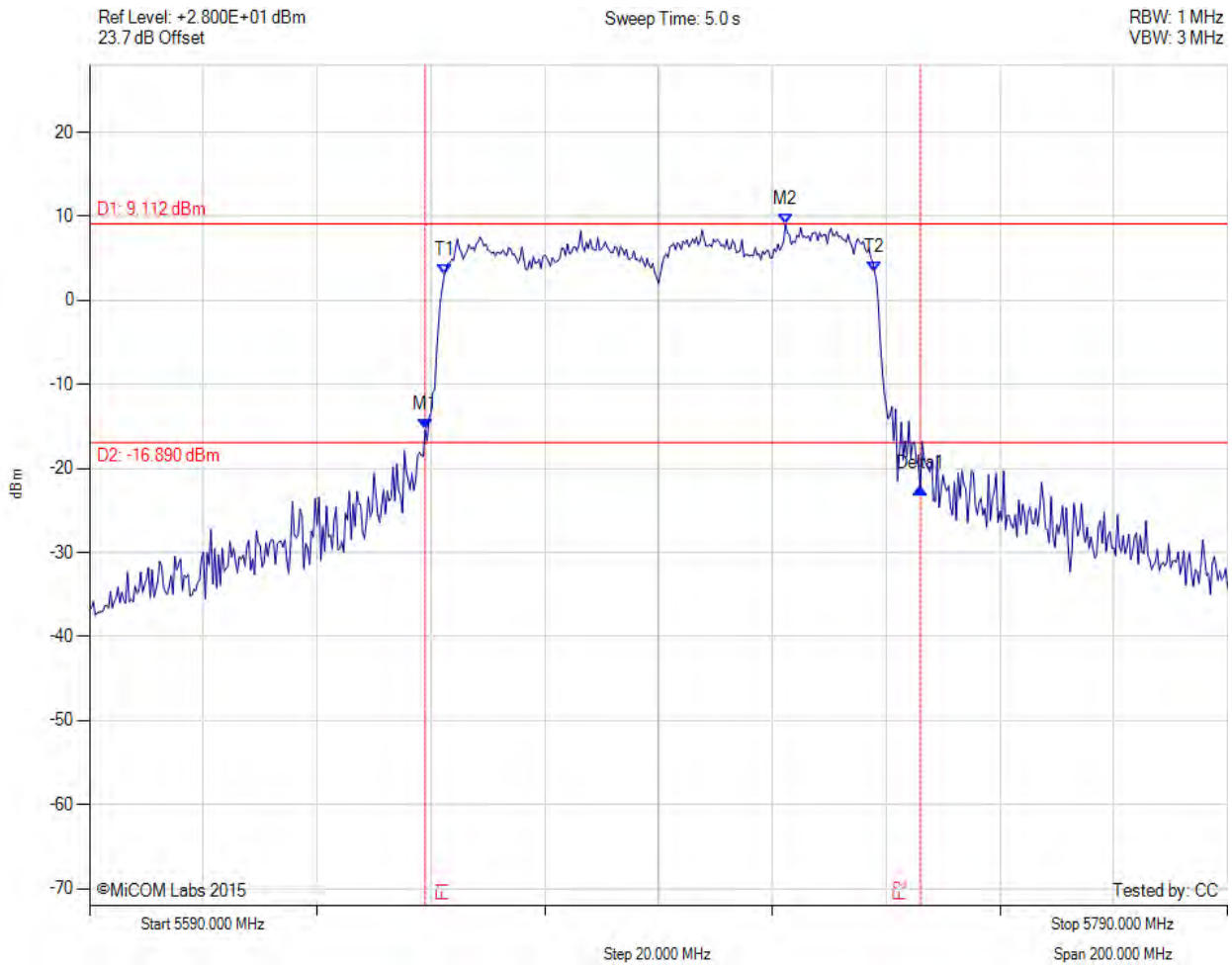
26 dB & 99% BANDWIDTH

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5649.000 MHz : -15.411 dBm M2 : 5712.300 MHz : 9.112 dBm Delta1 : 87.000 MHz : -6.950 dB T1 : 5652.333 MHz : 3.042 dBm T2 : 5728.000 MHz : 3.347 dBm OBW : 75.581 MHz	Measured 26 dB Bandwidth: 87.000 MHz Measured 99% Bandwidth: 75.581 MHz

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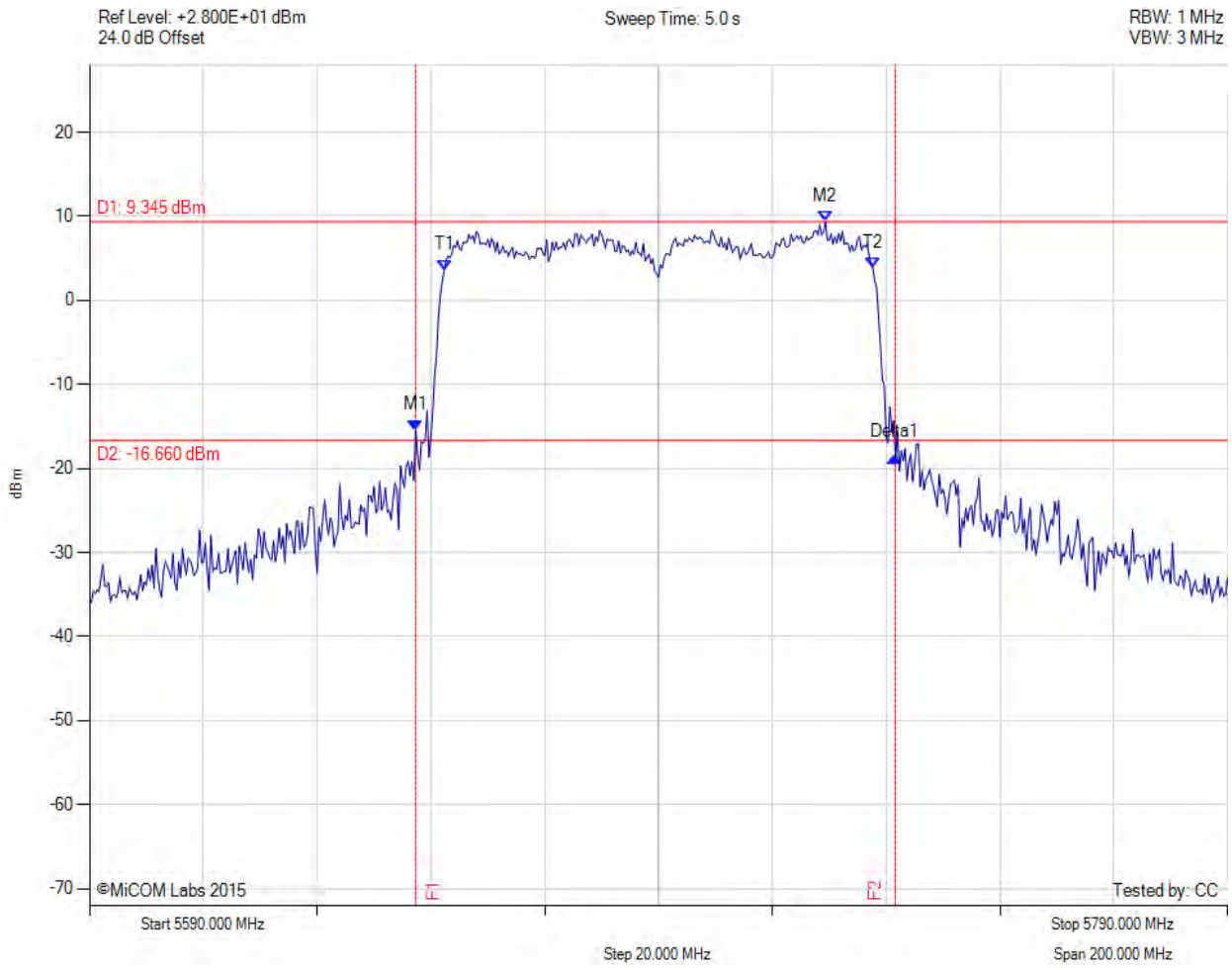
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5647.300 MHz : -15.423 dBm M2 : 5719.300 MHz : 9.345 dBm Delta1 : 84.300 MHz : -3.235 dB T1 : 5652.333 MHz : 3.630 dBm T2 : 5727.667 MHz : 3.887 dBm OBW : 75.406 MHz	Measured 26 dB Bandwidth: 84.300 MHz Measured 99% Bandwidth: 75.406 MHz

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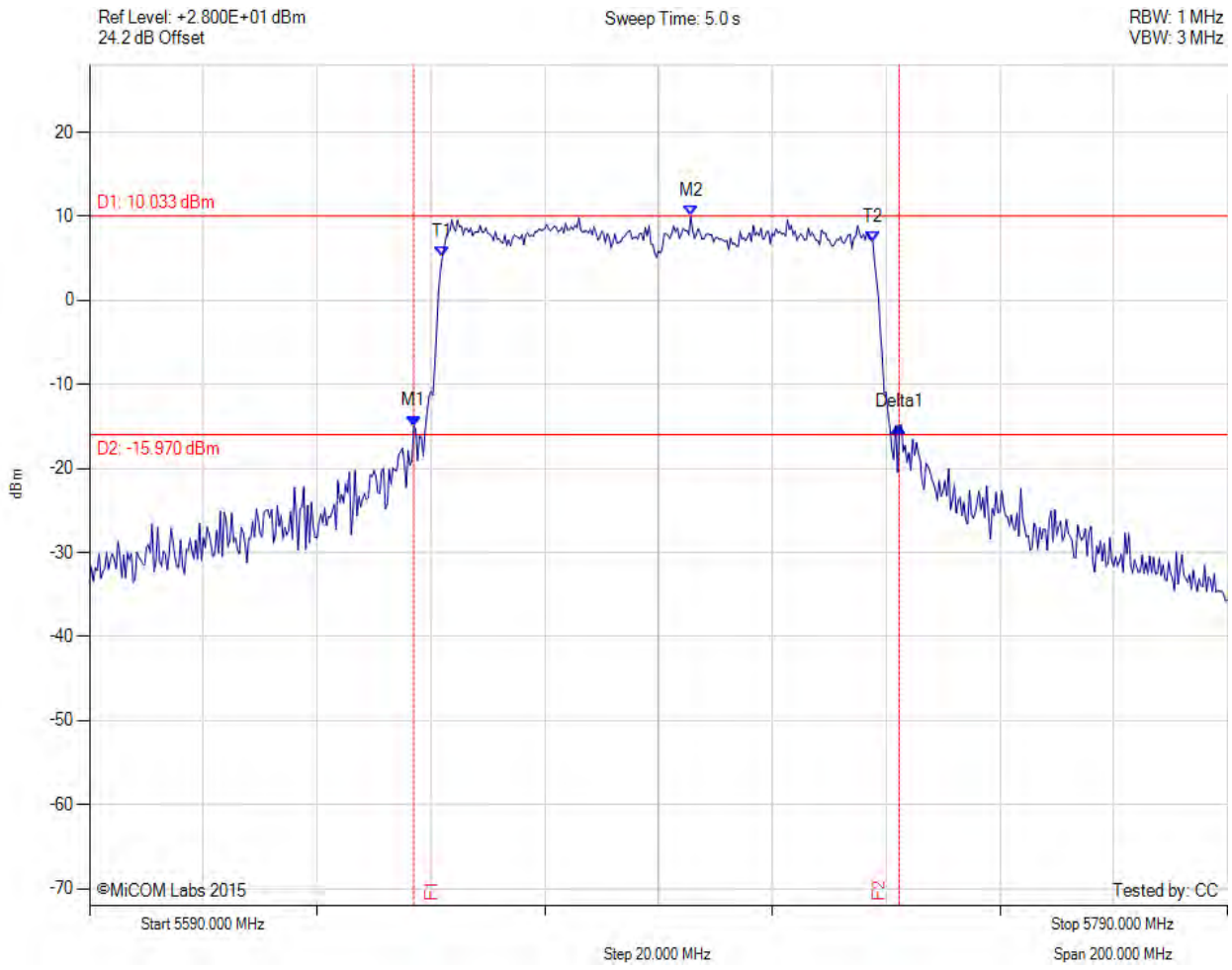
26 dB & 99% BANDWIDTH

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc

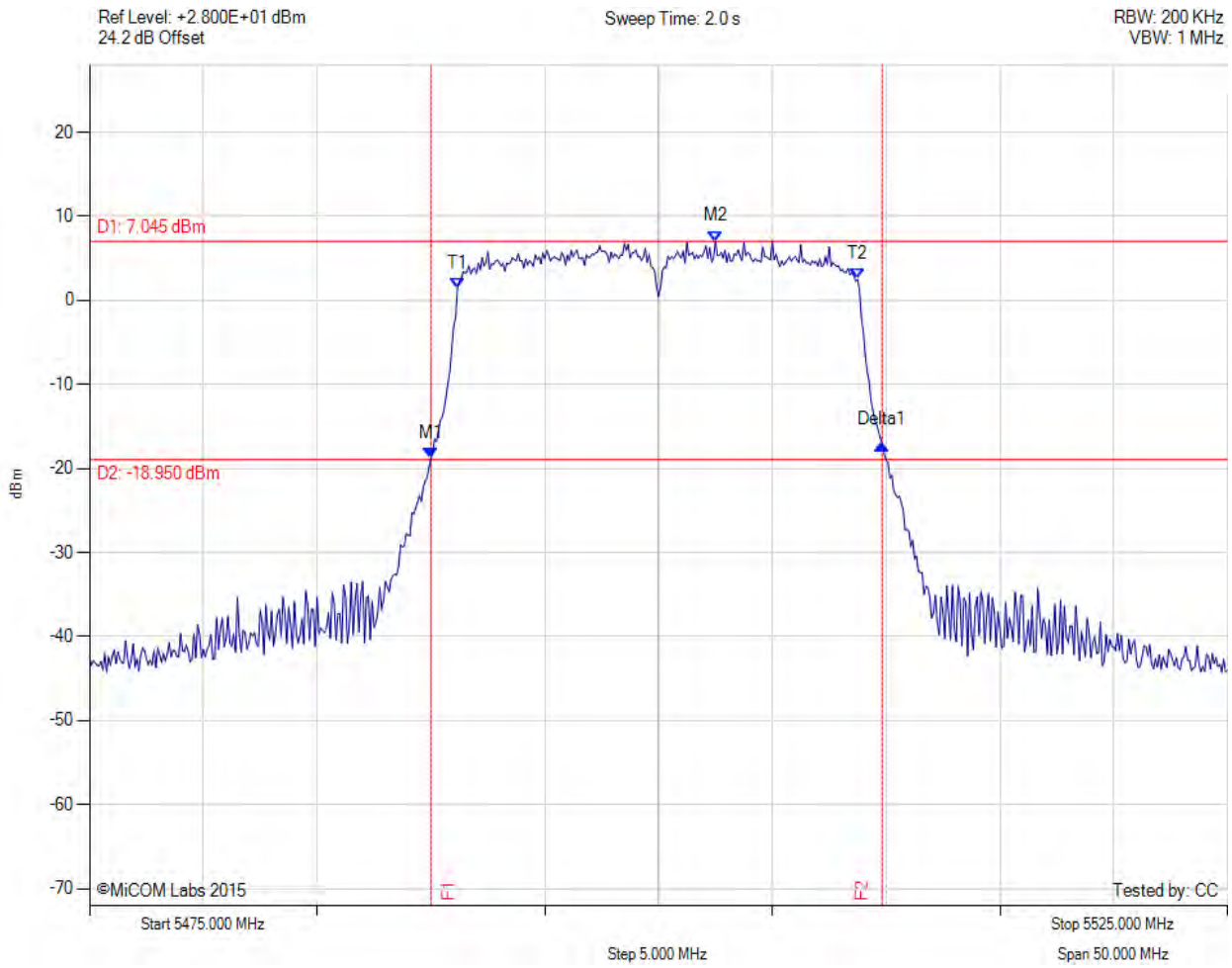


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5647.000 MHz : -14.945 dBm M2 : 5695.700 MHz : 10.033 dBm Delta1 : 85.300 MHz : -0.134 dB T1 : 5652.000 MHz : 5.121 dBm T2 : 5727.667 MHz : 6.987 dBm OBW : 75.683 MHz	Measured 26 dB Bandwidth: 85.300 MHz Measured 99% Bandwidth: 75.683 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

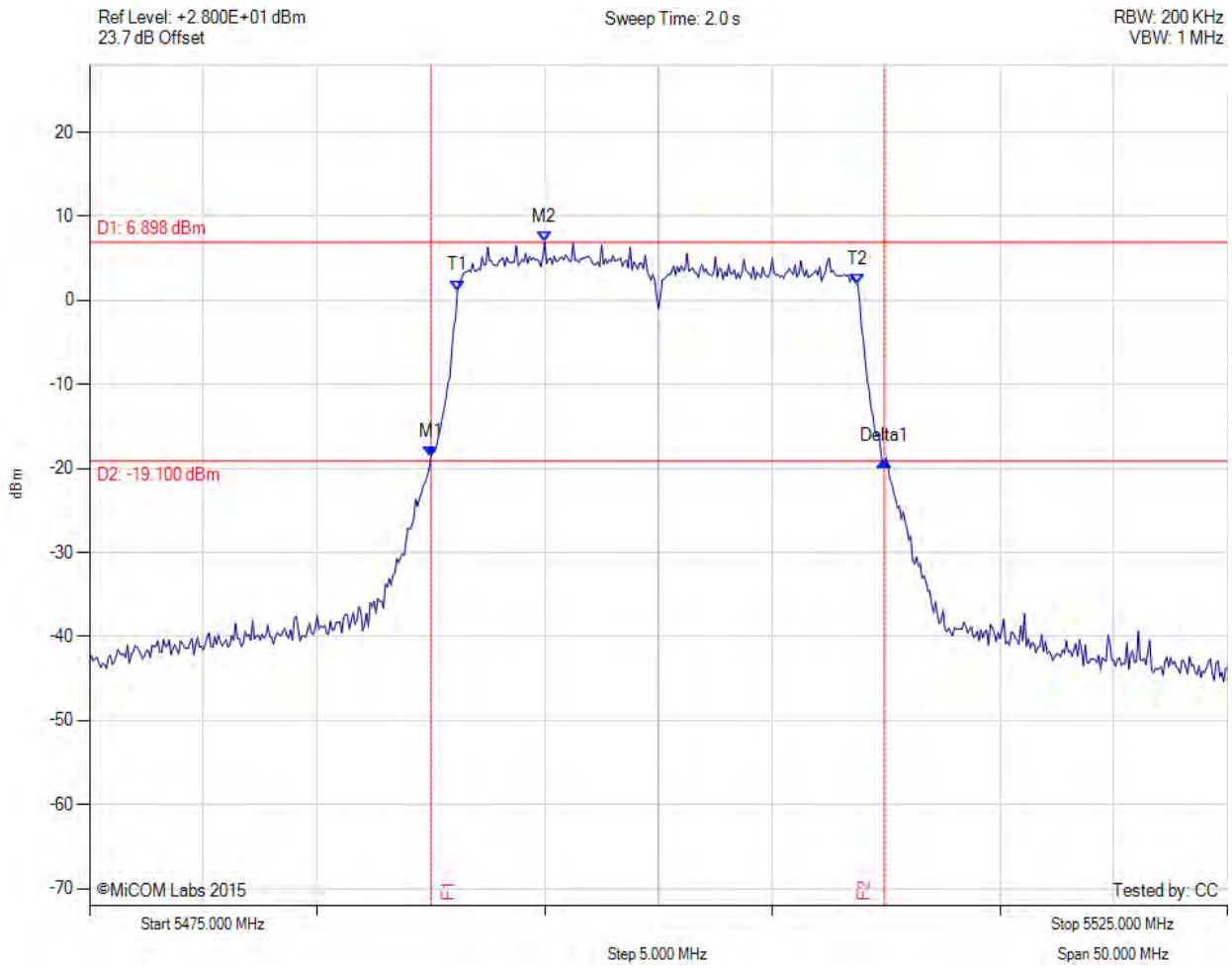


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.000 MHz : -18.811 dBm M2 : 5502.500 MHz : 7.045 dBm Delta1 : 19.830 MHz : 1.661 dB T1 : 5491.167 MHz : 1.492 dBm T2 : 5508.750 MHz : 2.498 dBm OBW : 17.557 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.557 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

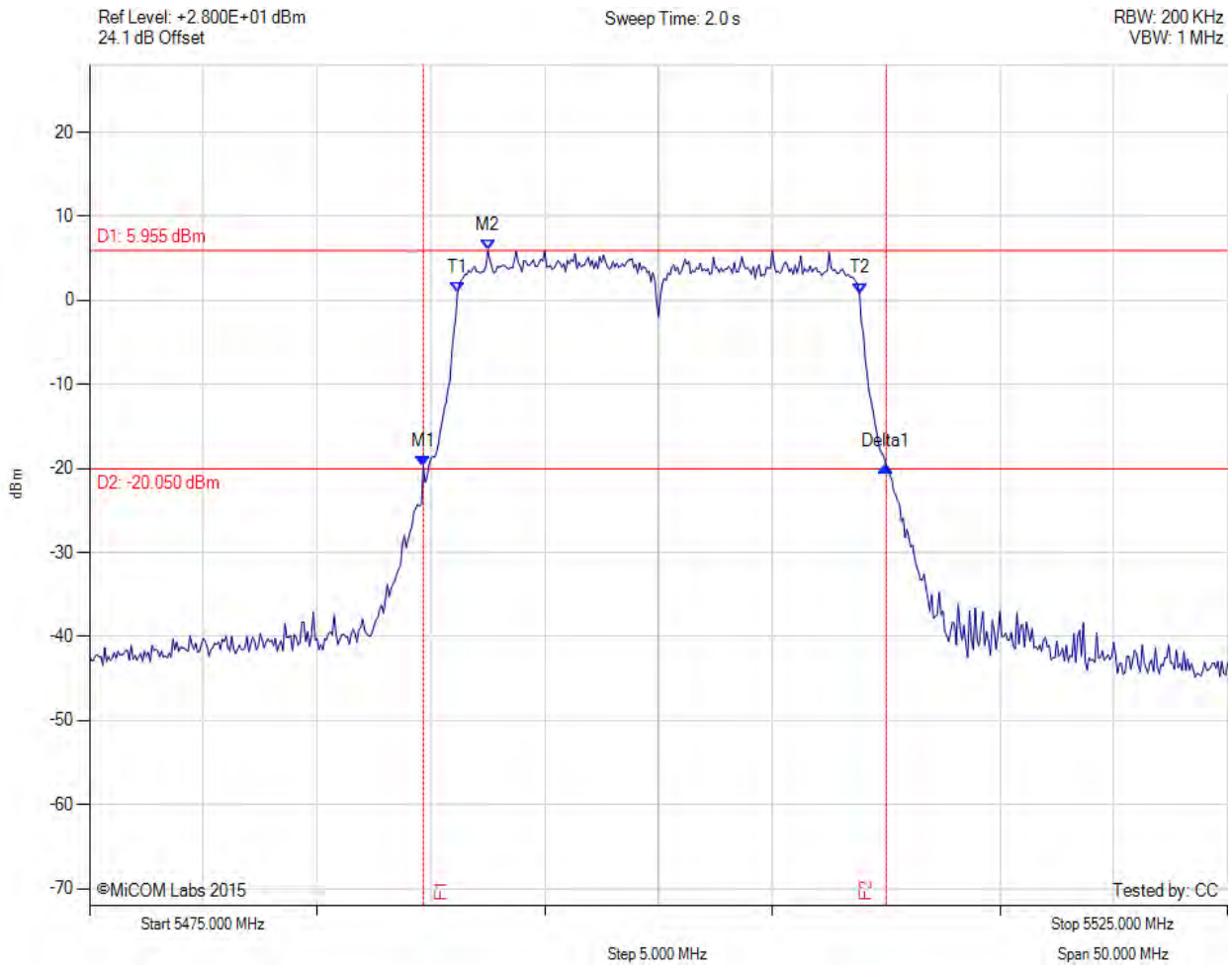


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.000 MHz : -18.608 dBm M2 : 5495.000 MHz : 6.898 dBm Delta1 : 19.920 MHz : -0.423 dB T1 : 5491.167 MHz : 1.176 dBm T2 : 5508.750 MHz : 1.898 dBm OBW : 17.583 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.583 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

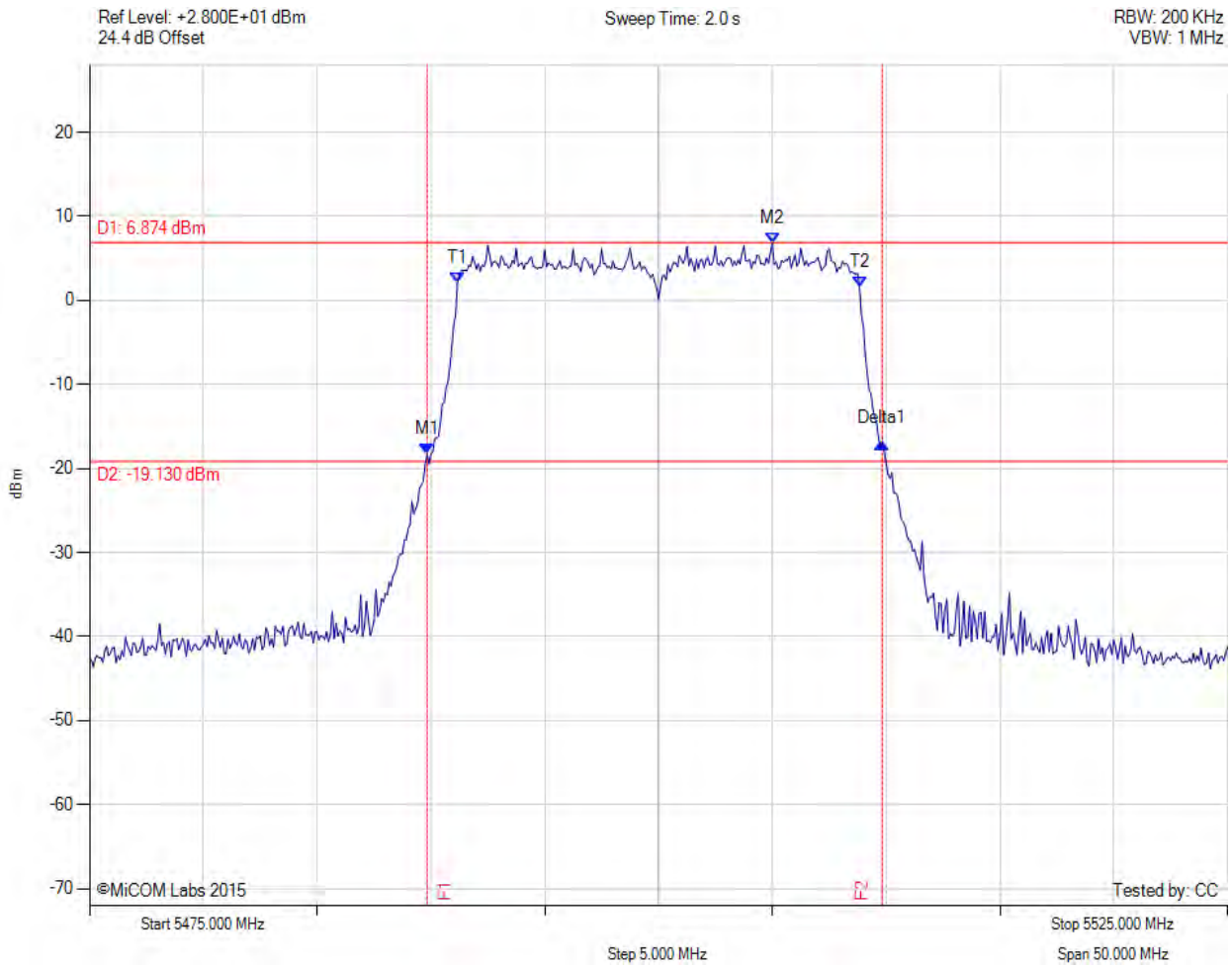


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5489.670 MHz : -19.697 dBm M2 : 5492.500 MHz : 5.955 dBm Delta1 : 20.330 MHz : -0.015 dB T1 : 5491.167 MHz : 0.930 dBm T2 : 5508.833 MHz : 0.867 dBm OBW : 17.601 MHz	Measured 26 dB Bandwidth: 20.330 MHz Measured 99% Bandwidth: 17.601 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

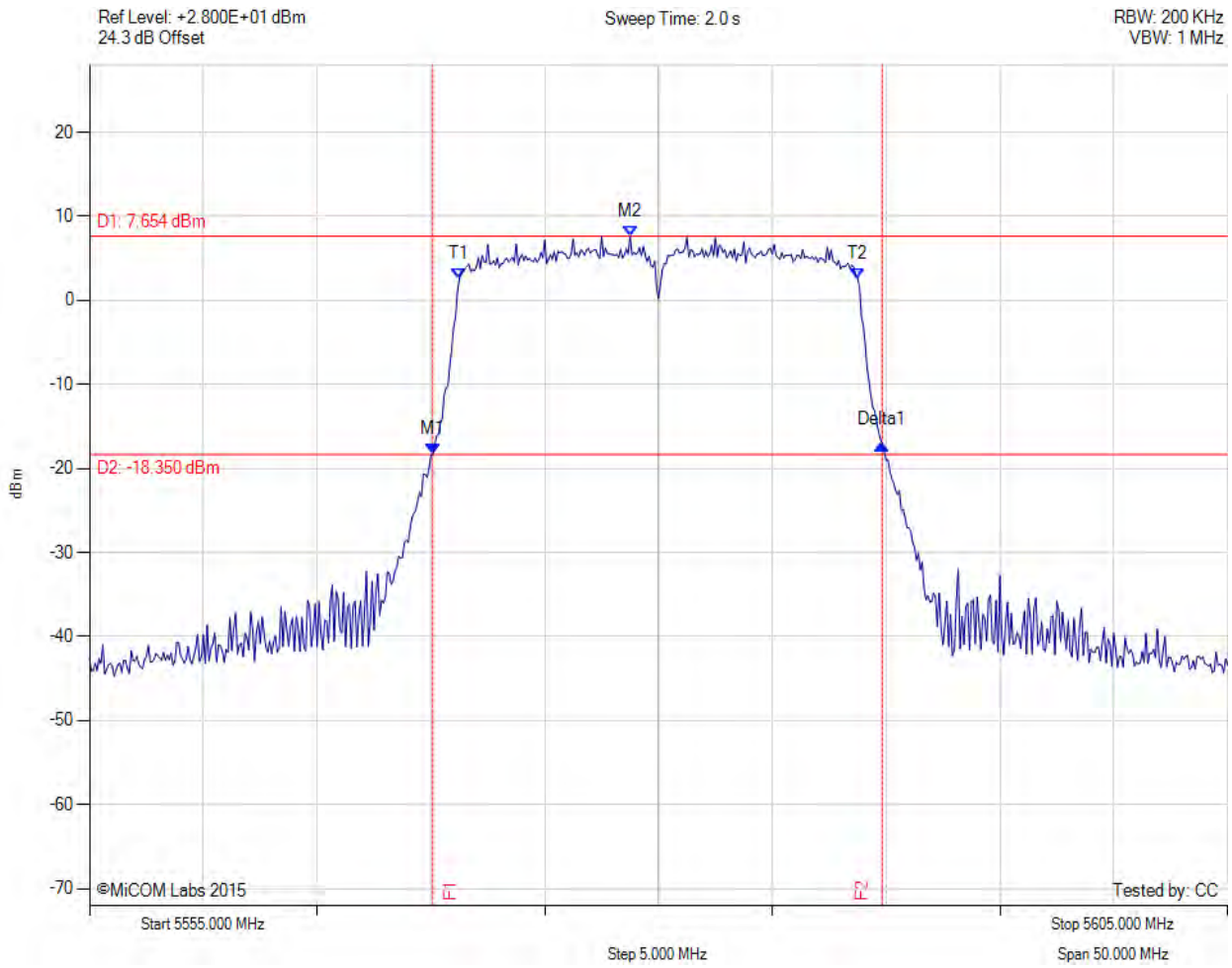


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5489.830 MHz : -18.323 dBm M2 : 5505.000 MHz : 6.874 dBm Delta1 : 20.000 MHz : 1.370 dB T1 : 5491.167 MHz : 2.092 dBm T2 : 5508.833 MHz : 1.550 dBm OBW : 17.625 MHz	Measured 26 dB Bandwidth: 20.000 MHz Measured 99% Bandwidth: 17.625 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

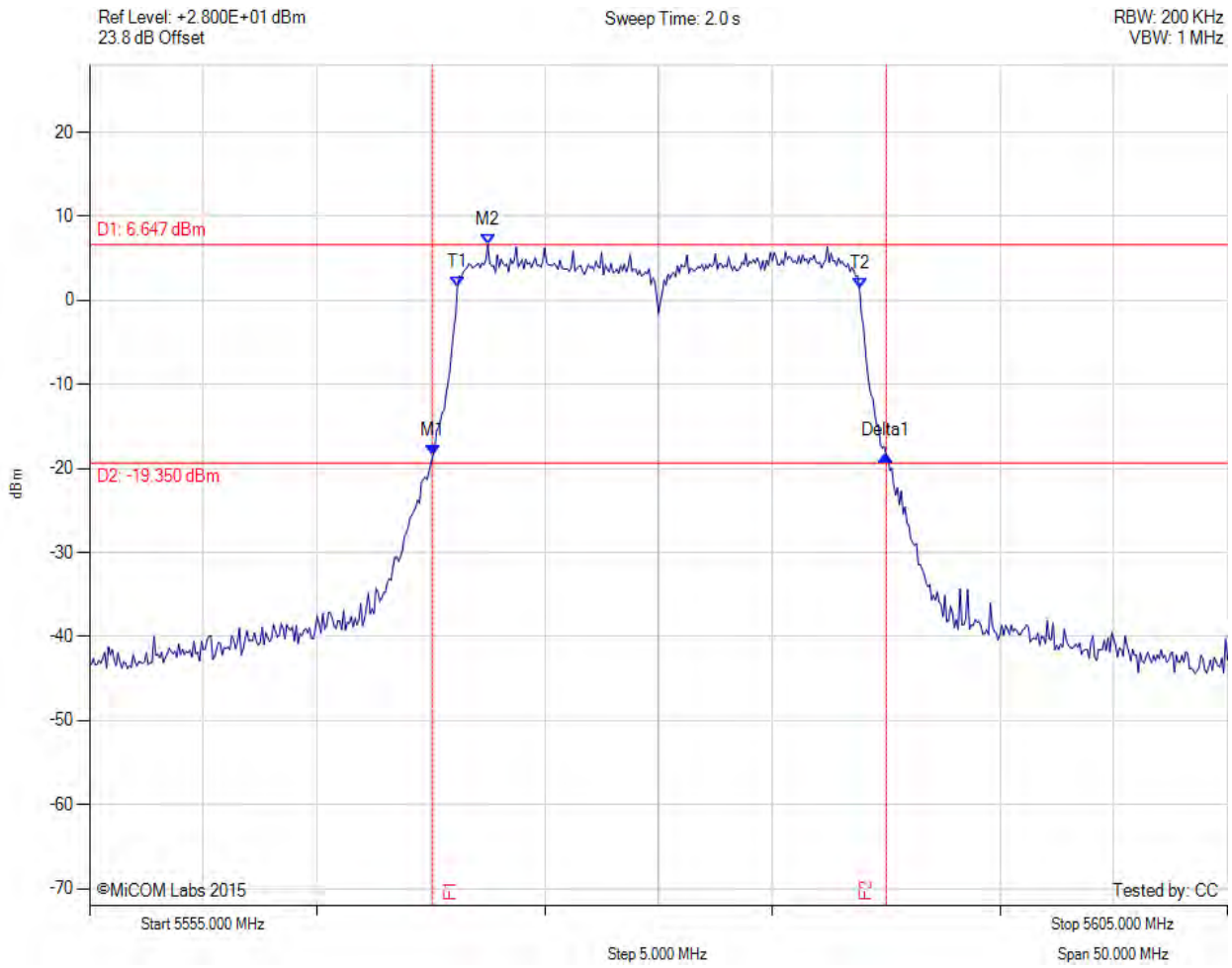


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.080 MHz : -18.327 dBm M2 : 5578.750 MHz : 7.654 dBm Delta1 : 19.750 MHz : 1.208 dB T1 : 5571.250 MHz : 2.559 dBm T2 : 5588.750 MHz : 2.633 dBm OBW : 17.542 MHz	Measured 26 dB Bandwidth: 19.750 MHz Measured 99% Bandwidth: 17.542 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

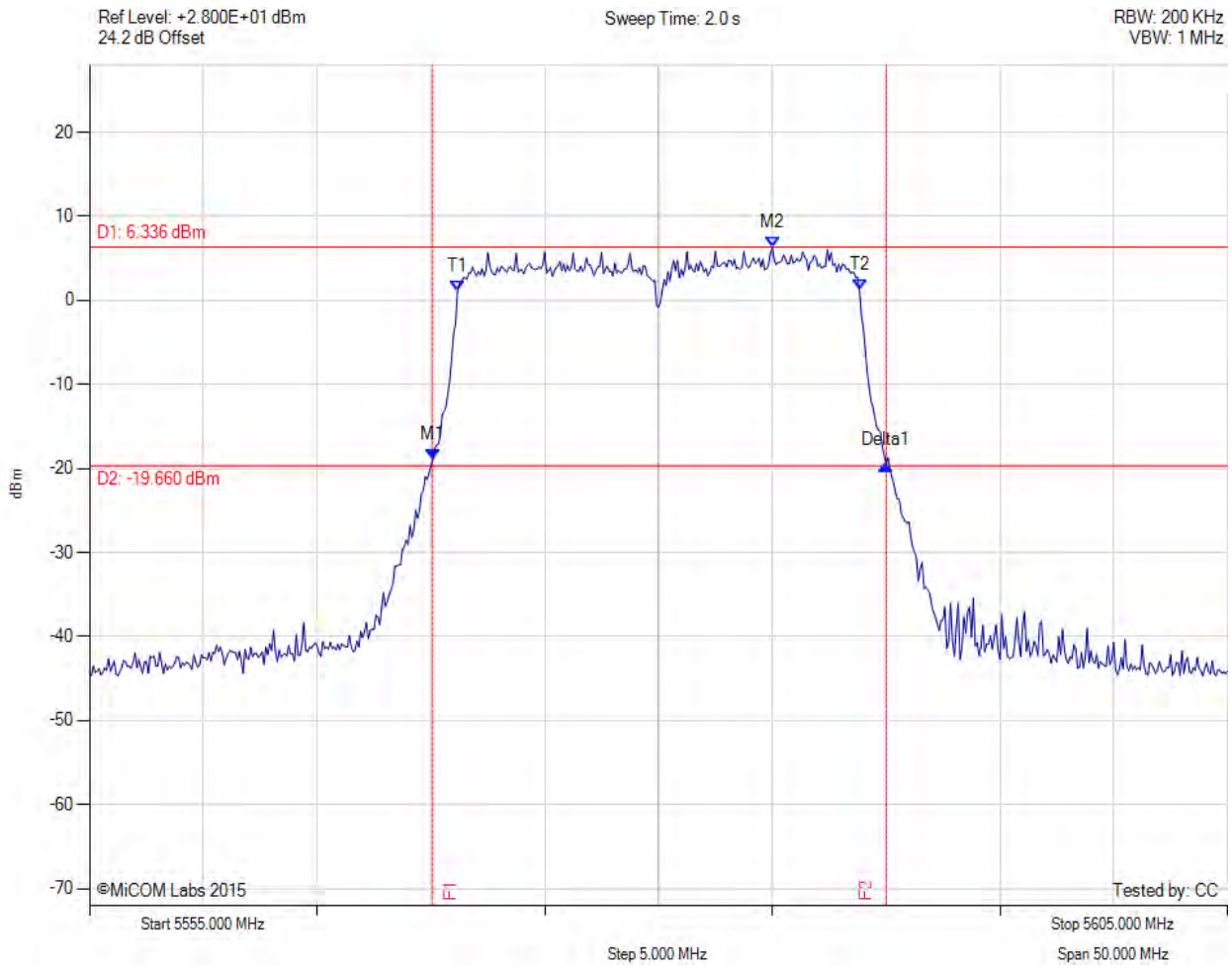


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.080 MHz : -18.507 dBm M2 : 5572.500 MHz : 6.647 dBm Delta1 : 19.920 MHz : 0.077 dB T1 : 5571.167 MHz : 1.657 dBm T2 : 5588.833 MHz : 1.499 dBm OBW : 17.635 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.635 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

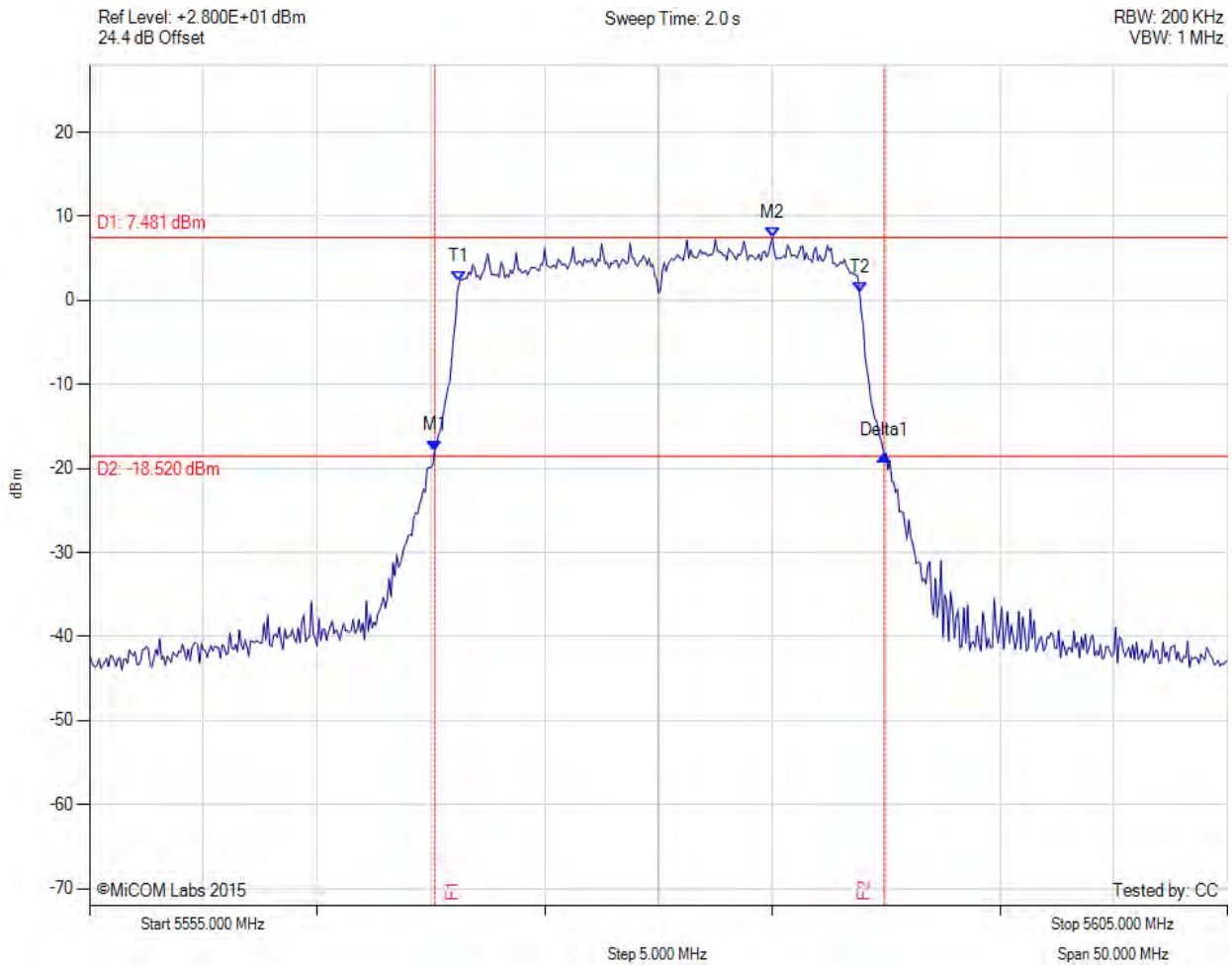


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.080 MHz : -18.936 dBm M2 : 5585.000 MHz : 6.336 dBm Delta1 : 19.920 MHz : -0.592 dB T1 : 5571.167 MHz : 1.055 dBm T2 : 5588.833 MHz : 1.219 dBm OBW : 17.613 MHz	Measured 26 dB Bandwidth: 19.920 MHz Measured 99% Bandwidth: 17.613 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

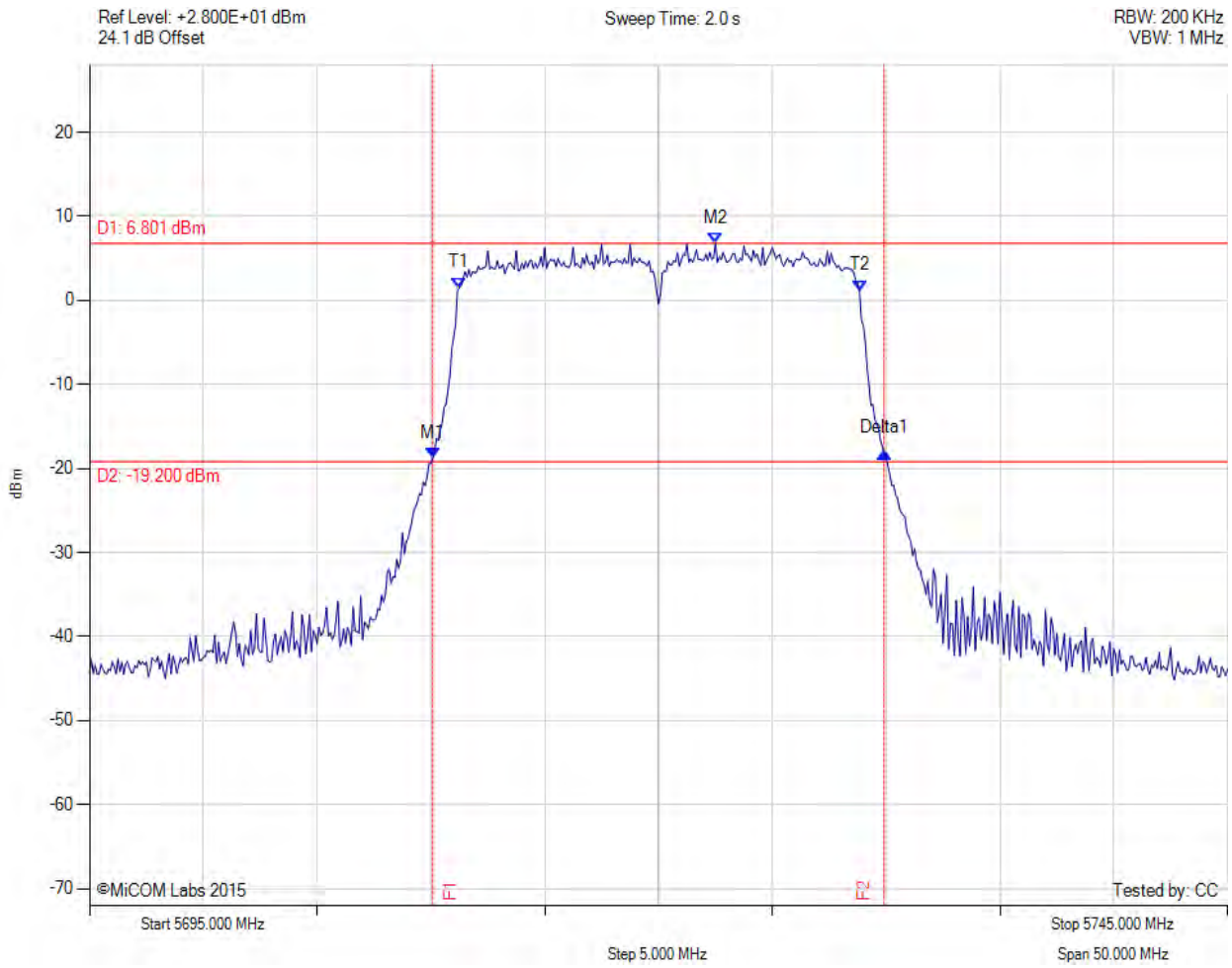


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5570.170 MHz : -17.871 dBm M2 : 5585.000 MHz : 7.481 dBm Delta1 : 19.750 MHz : -0.536 dB T1 : 5571.250 MHz : 2.191 dBm T2 : 5588.833 MHz : 0.998 dBm OBW : 17.552 MHz	Measured 26 dB Bandwidth: 19.750 MHz Measured 99% Bandwidth: 17.552 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

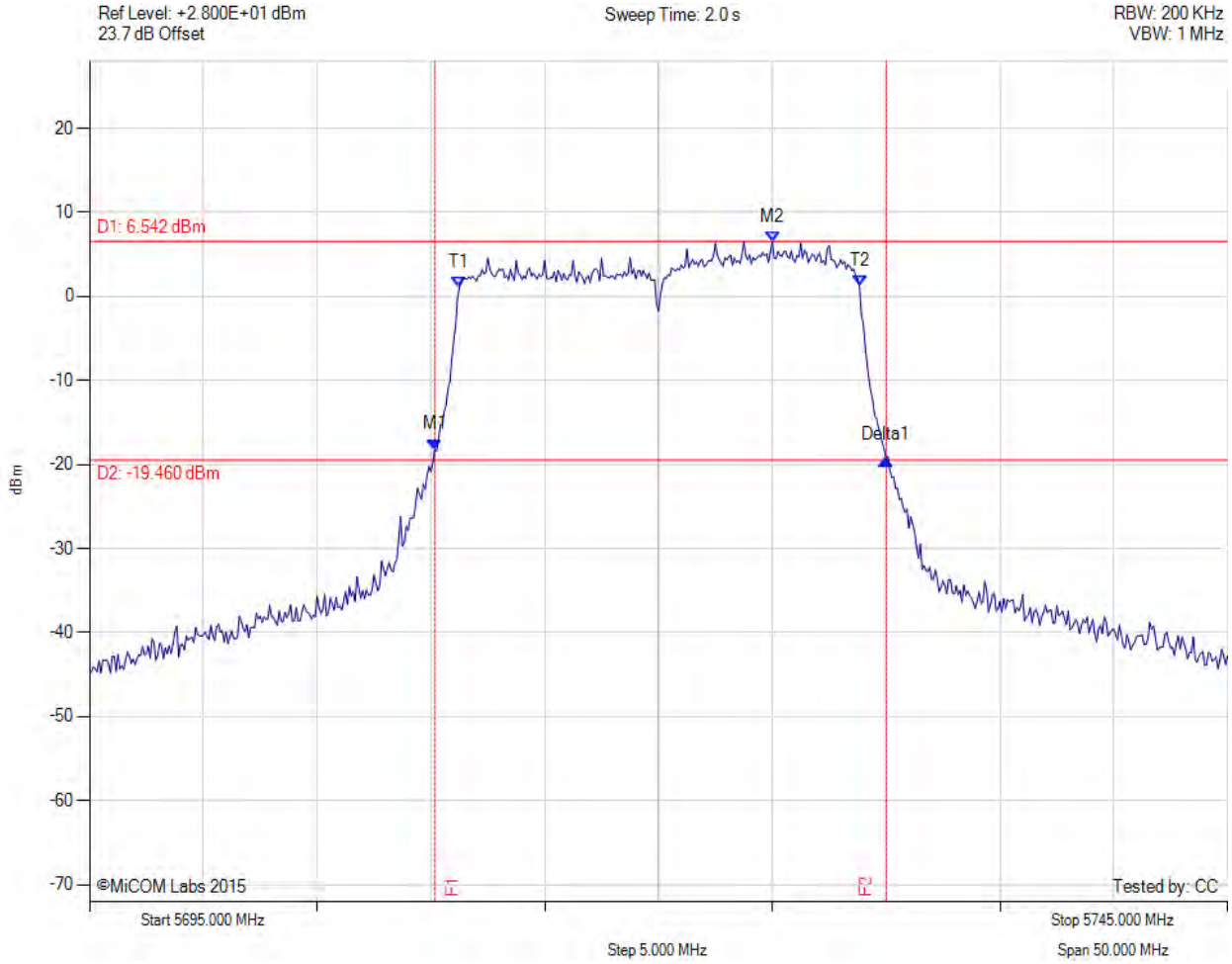


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.080 MHz : -18.731 dBm M2 : 5722.500 MHz : 6.801 dBm Delta1 : 19.830 MHz : 0.561 dB T1 : 5711.250 MHz : 1.506 dBm T2 : 5728.833 MHz : 1.188 dBm OBW : 17.570 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.570 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

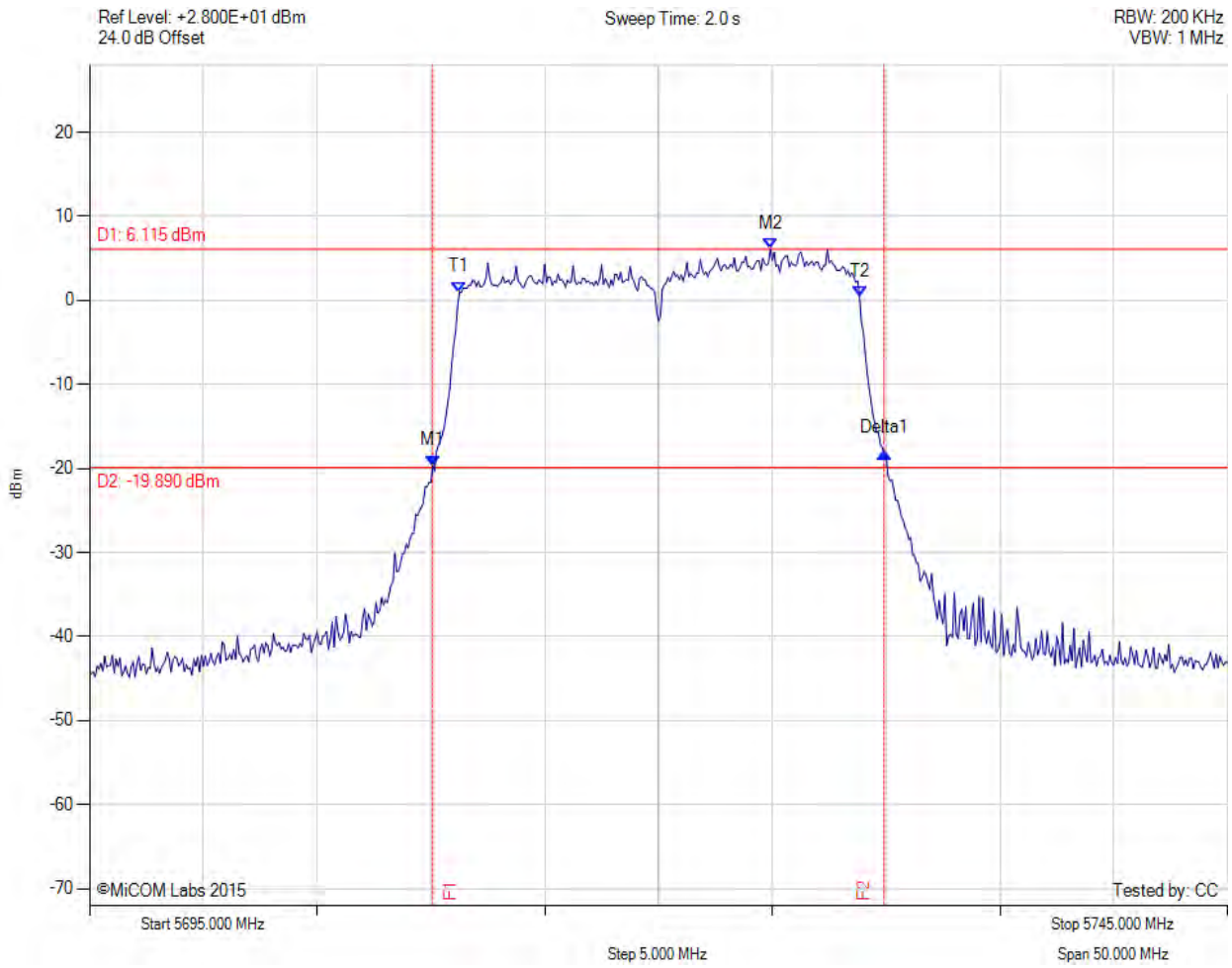


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.170 MHz : -18.205 dBm M2 : 5725.000 MHz : 6.542 dBm Delta1 : 19.830 MHz : -1.233 dB T1 : 5711.250 MHz : 1.135 dBm T2 : 5728.833 MHz : 1.205 dBm OBW : 17.604 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.604 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

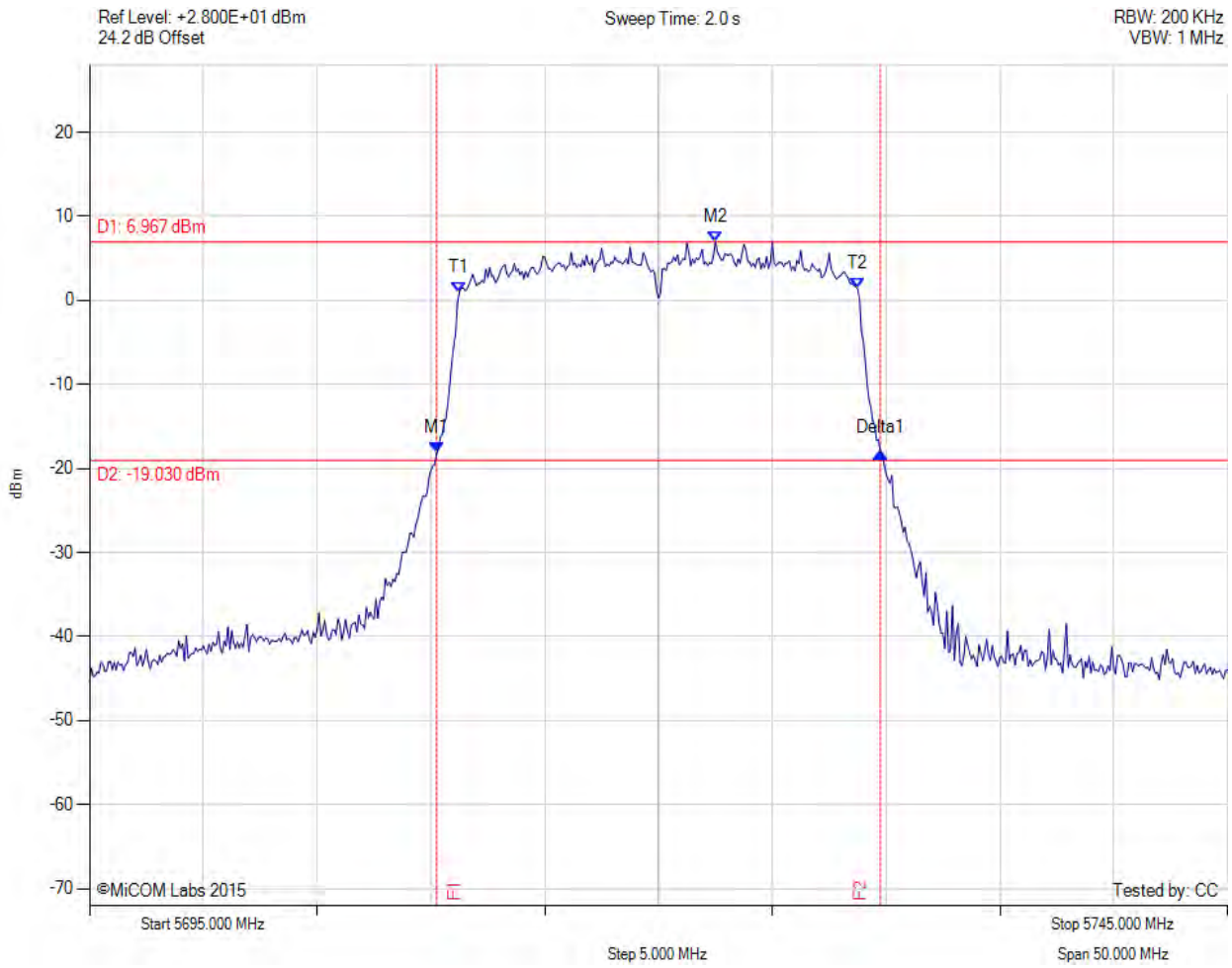


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.080 MHz : -19.667 dBm M2 : 5724.920 MHz : 6.115 dBm Delta1 : 19.830 MHz : 1.502 dB T1 : 5711.250 MHz : 1.014 dBm T2 : 5728.833 MHz : 0.470 dBm OBW : 17.595 MHz	Measured 26 dB Bandwidth: 19.830 MHz Measured 99% Bandwidth: 17.595 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

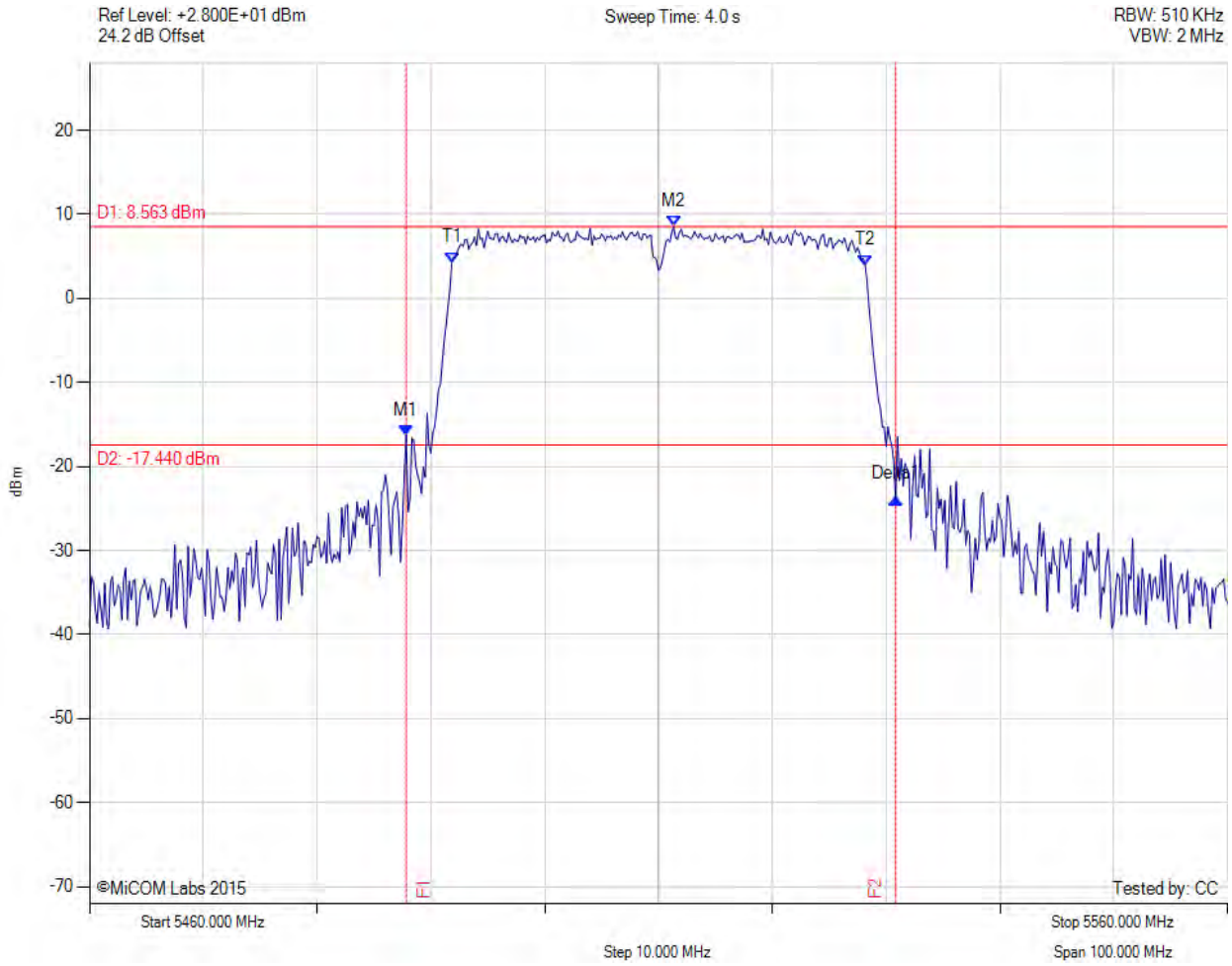


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5710.250 MHz : -18.151 dBm M2 : 5722.500 MHz : 6.967 dBm Delta1 : 19.500 MHz : 0.084 dB T1 : 5711.250 MHz : 1.008 dBm T2 : 5728.750 MHz : 1.379 dBm OBW : 17.496 MHz	Measured 26 dB Bandwidth: 19.500 MHz Measured 99% Bandwidth: 17.496 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

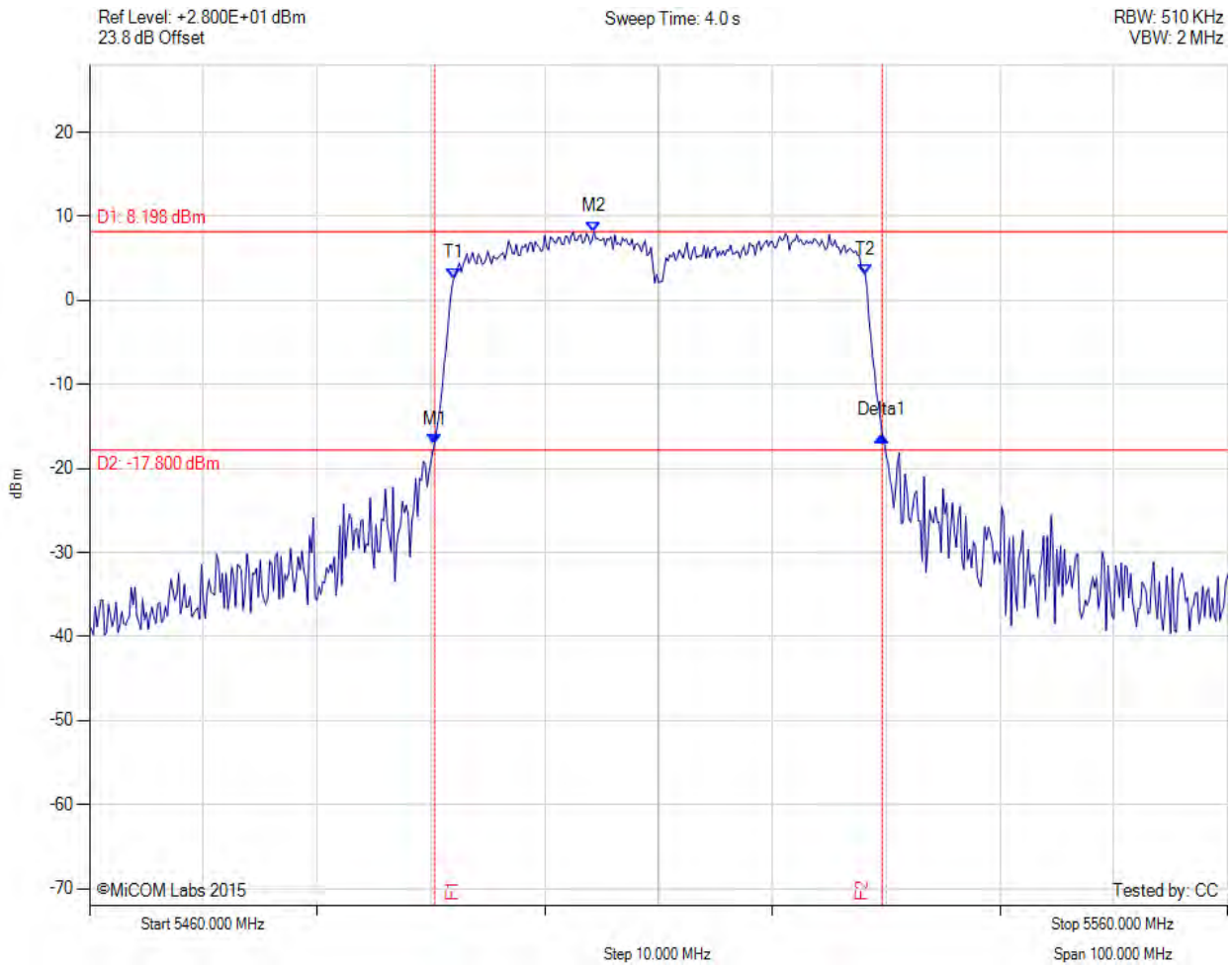


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5487.830 MHz : -16.289 dBm M2 : 5511.330 MHz : 8.563 dBm Delta1 : 43.000 MHz : -7.553 dB T1 : 5491.833 MHz : 4.278 dBm T2 : 5528.167 MHz : 3.954 dBm OBW : 36.214 MHz	Measured 26 dB Bandwidth: 43.000 MHz Measured 99% Bandwidth: 36.214 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

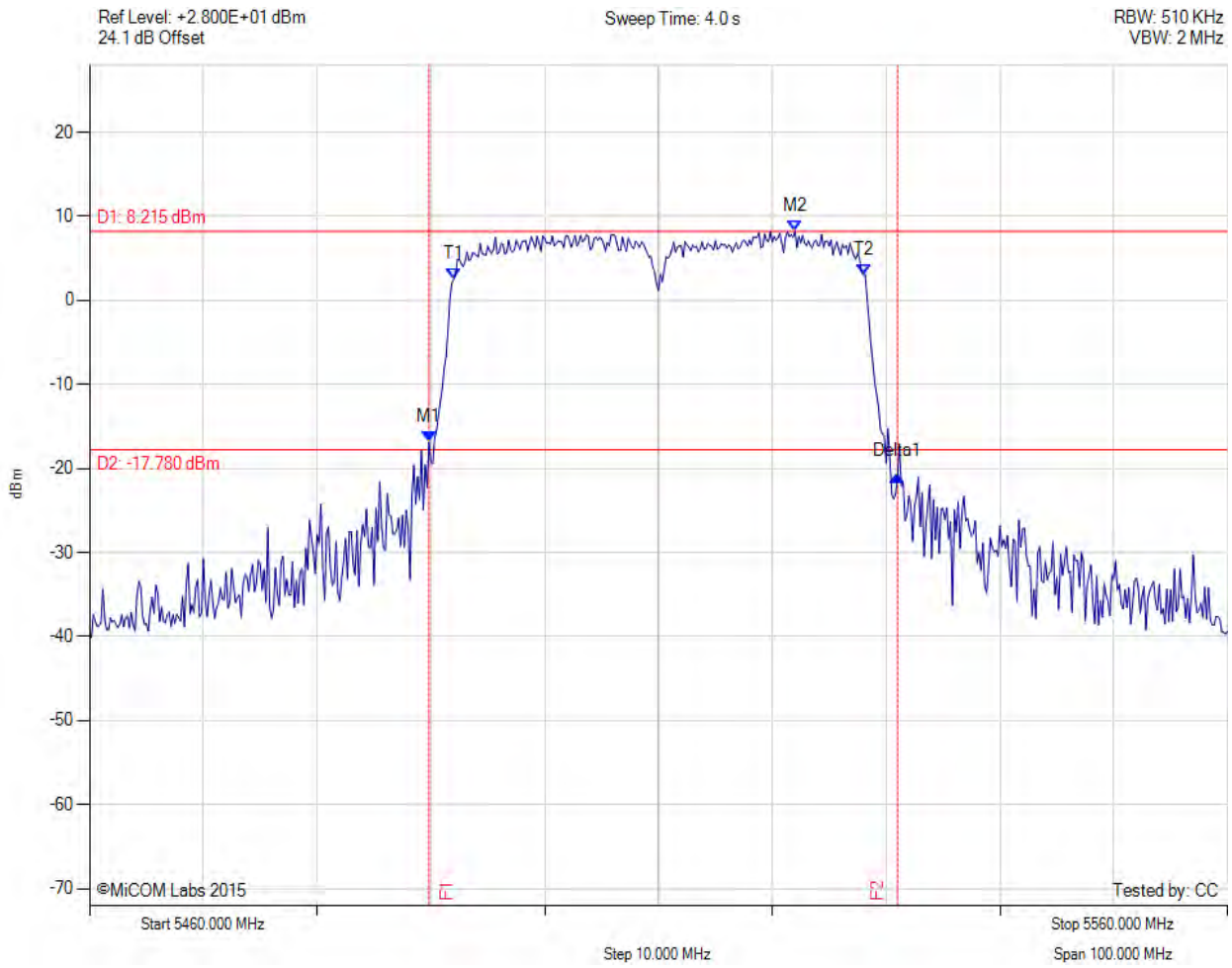


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.330 MHz : -17.076 dBm M2 : 5504.330 MHz : 8.198 dBm Delta1 : 39.330 MHz : 0.989 dB T1 : 5492.000 MHz : 2.645 dBm T2 : 5528.167 MHz : 3.060 dBm OBW : 36.067 MHz	Measured 26 dB Bandwidth: 39.330 MHz Measured 99% Bandwidth: 36.067 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

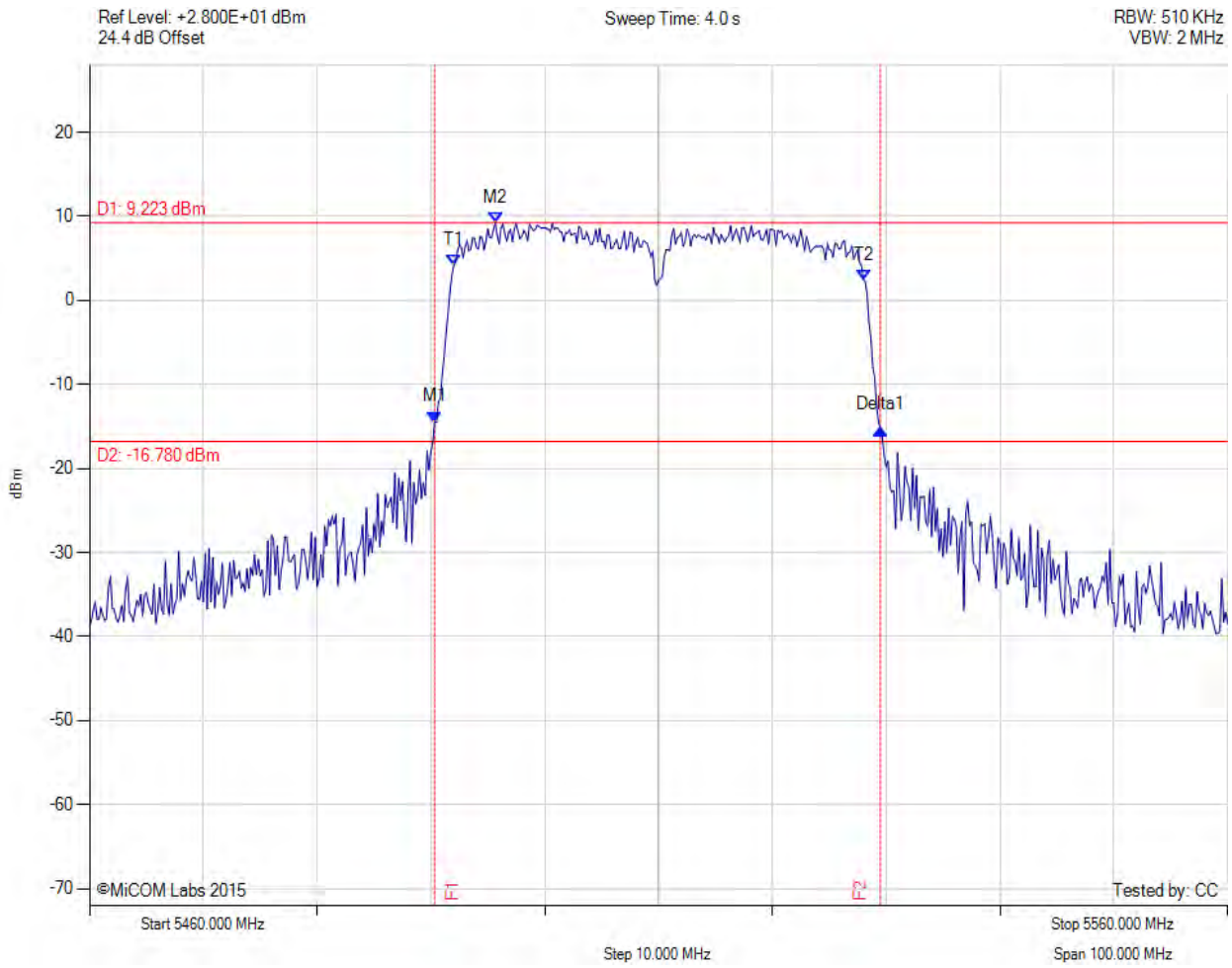


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5489.830 MHz : -16.845 dBm M2 : 5522.000 MHz : 8.215 dBm Delta1 : 41.170 MHz : -3.993 dB T1 : 5492.000 MHz : 2.575 dBm T2 : 5528.000 MHz : 3.049 dBm OBW : 36.006 MHz	Measured 26 dB Bandwidth: 41.170 MHz Measured 99% Bandwidth: 36.006 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

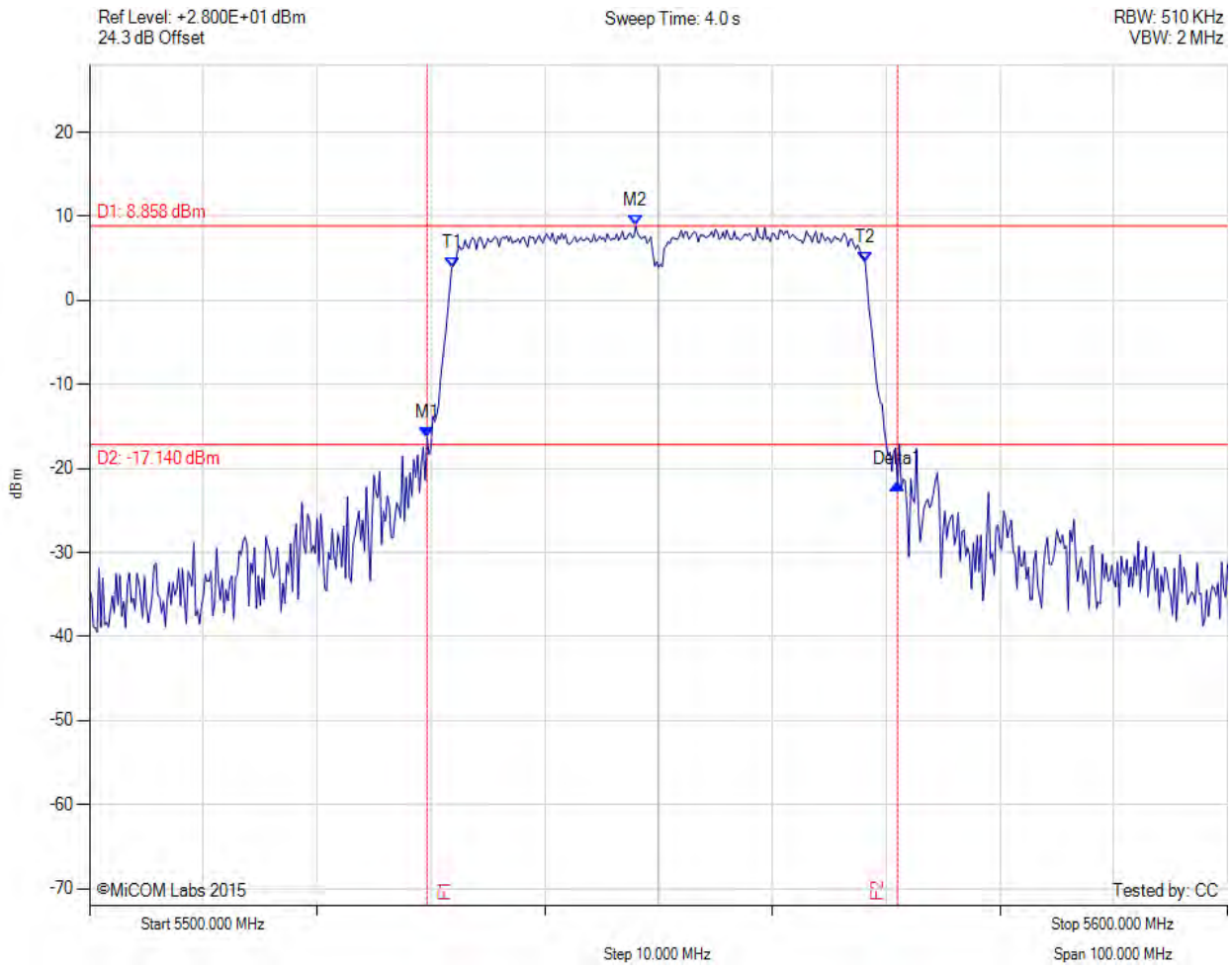


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5490.330 MHz : -14.457 dBm M2 : 5495.670 MHz : 9.223 dBm Delta1 : 39.170 MHz : -0.829 dB T1 : 5492.000 MHz : 4.190 dBm T2 : 5528.000 MHz : 2.472 dBm OBW : 35.920 MHz	Measured 26 dB Bandwidth: 39.170 MHz Measured 99% Bandwidth: 35.920 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

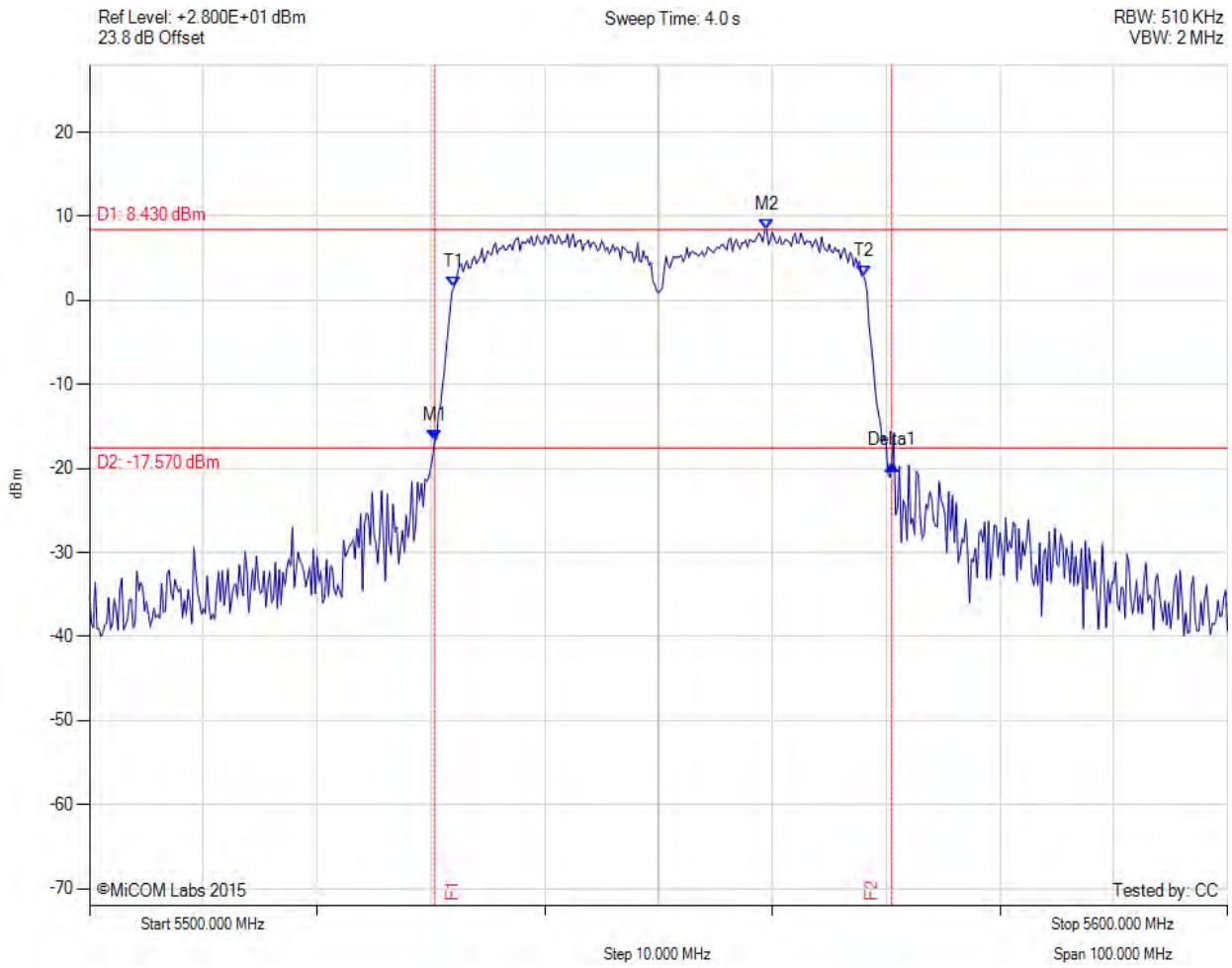


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5529.670 MHz : -16.364 dBm M2 : 5548.000 MHz : 8.858 dBm Delta1 : 41.330 MHz : -5.528 dB T1 : 5531.833 MHz : 3.906 dBm T2 : 5568.167 MHz : 4.501 dBm OBW : 36.187 MHz	Measured 26 dB Bandwidth: 41.330 MHz Measured 99% Bandwidth: 36.187 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

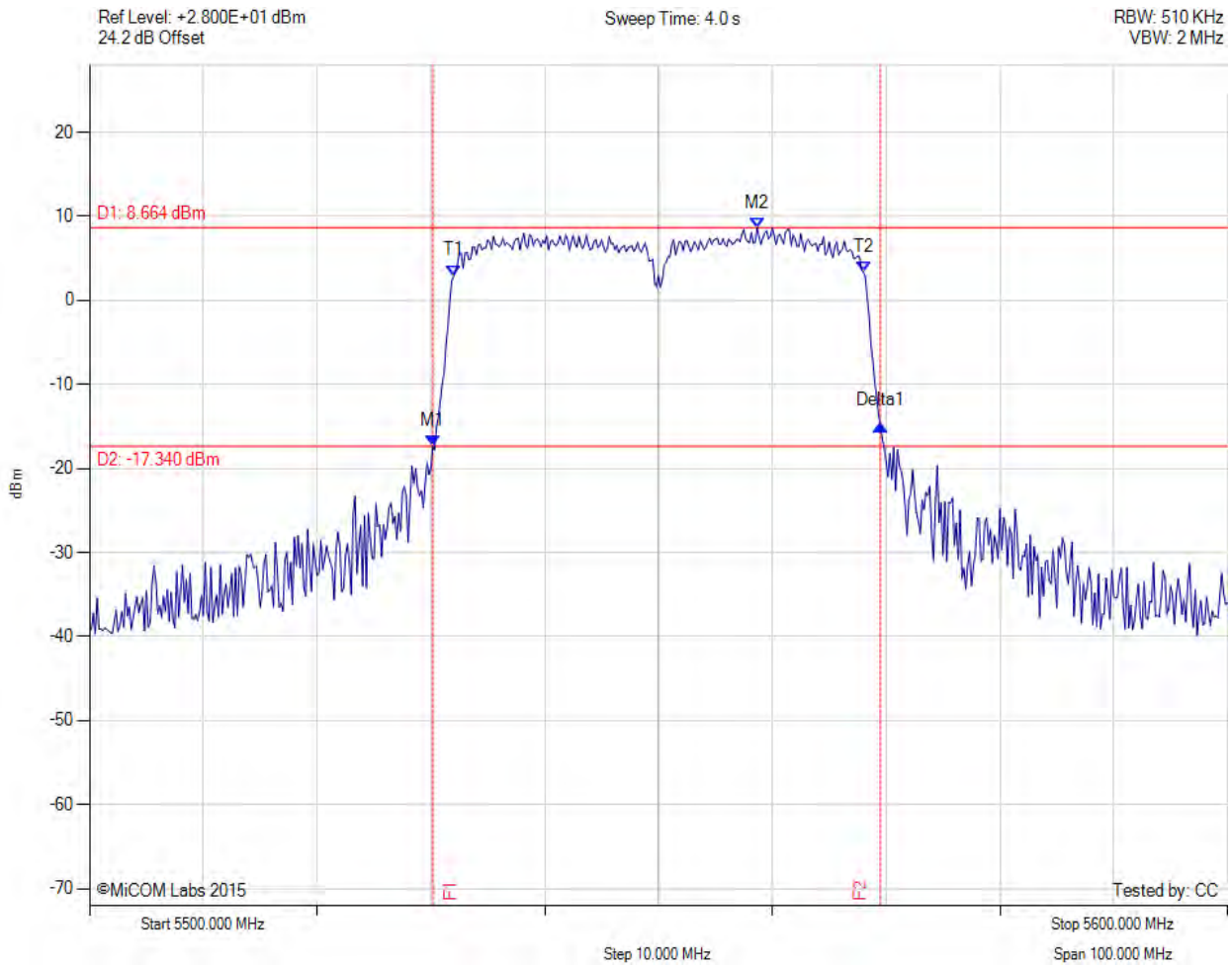


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5530.330 MHz : -16.589 dBm M2 : 5559.500 MHz : 8.430 dBm Delta1 : 40.170 MHz : -2.941 dB T1 : 5532.000 MHz : 1.547 dBm T2 : 5568.000 MHz : 2.954 dBm OBW : 35.952 MHz	Measured 26 dB Bandwidth: 40.170 MHz Measured 99% Bandwidth: 35.952 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

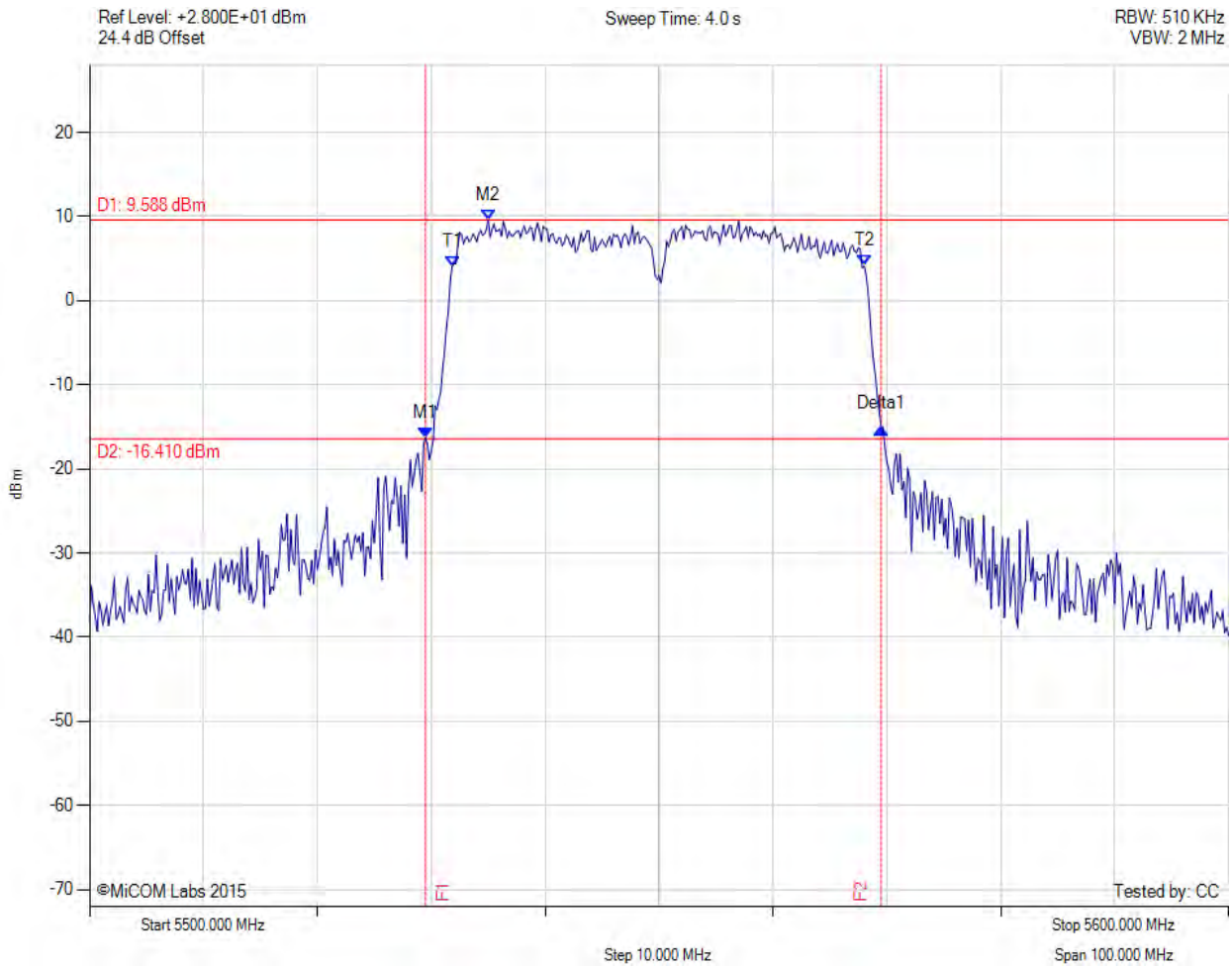


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5530.170 MHz : -17.294 dBm M2 : 5558.670 MHz : 8.664 dBm Delta1 : 39.330 MHz : 2.380 dB T1 : 5532.000 MHz : 2.976 dBm T2 : 5568.000 MHz : 3.336 dBm OBW : 36.023 MHz	Measured 26 dB Bandwidth: 39.330 MHz Measured 99% Bandwidth: 36.023 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

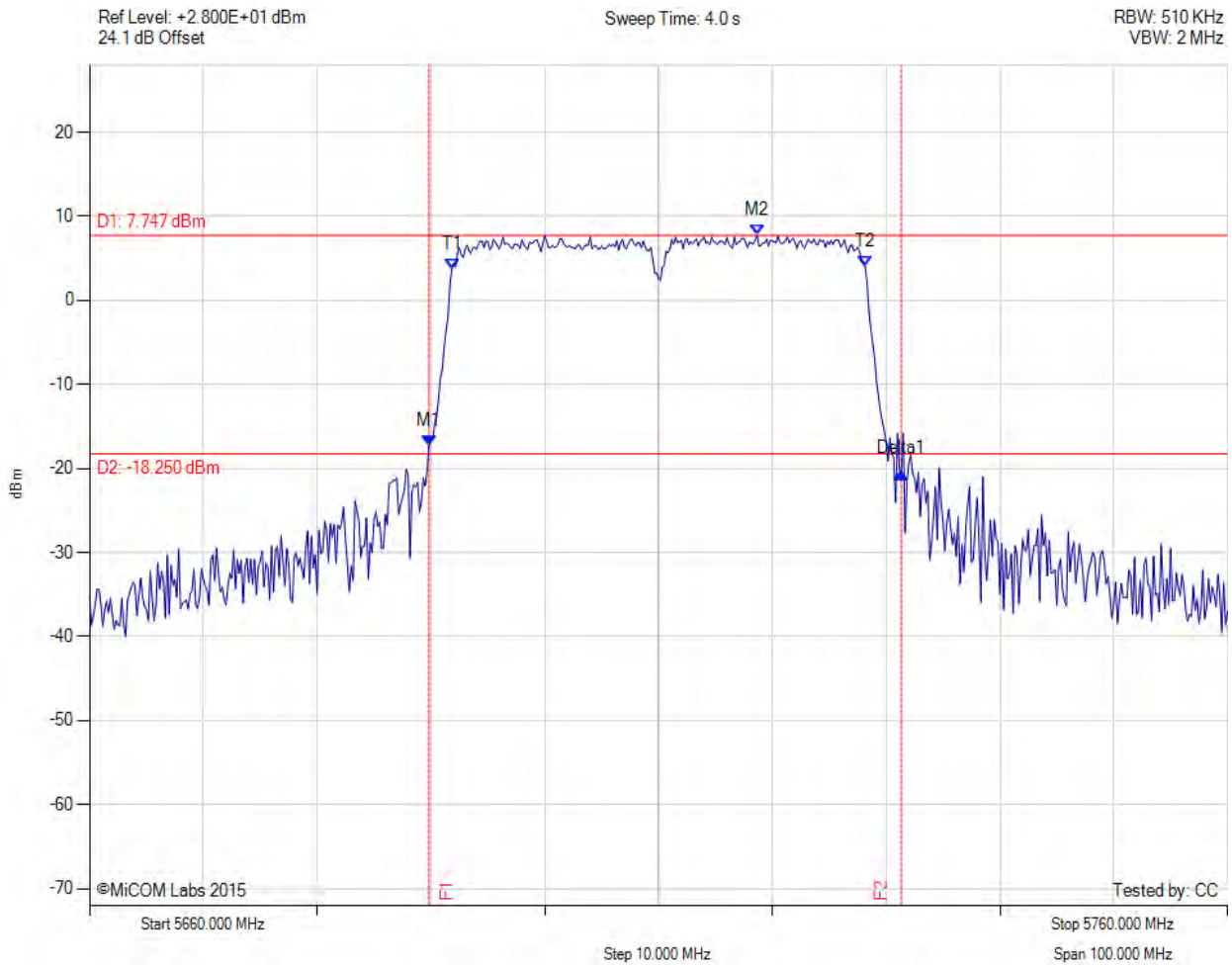


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5529.500 MHz : -16.288 dBm M2 : 5535.000 MHz : 9.588 dBm Delta1 : 40.000 MHz : 1.114 dB T1 : 5531.833 MHz : 4.104 dBm T2 : 5568.000 MHz : 4.144 dBm OBW : 36.086 MHz	Measured 26 dB Bandwidth: 40.000 MHz Measured 99% Bandwidth: 36.086 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

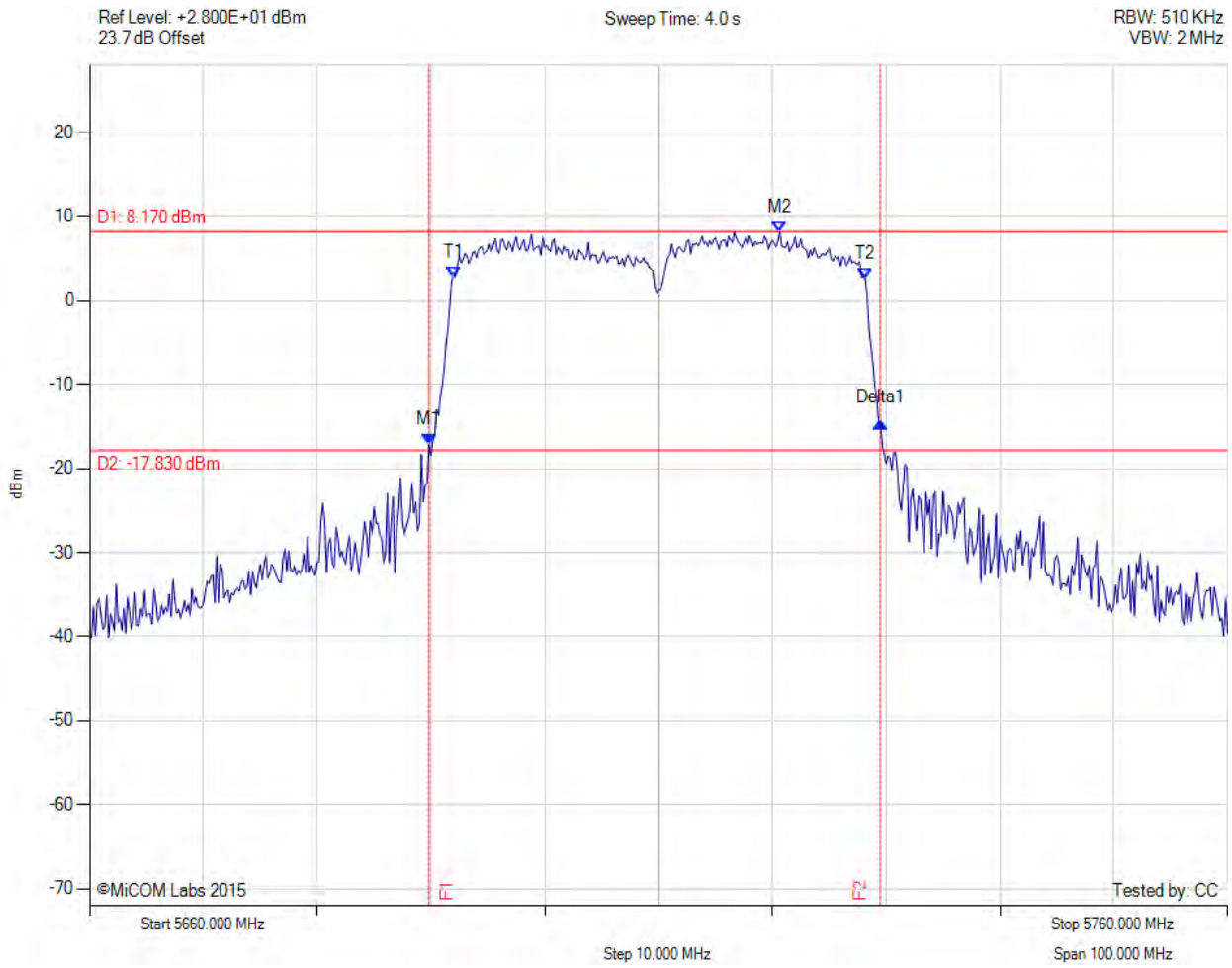


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5689.830 MHz : -17.272 dBm M2 : 5718.670 MHz : 7.747 dBm Delta1 : 41.500 MHz : -3.310 dB T1 : 5691.833 MHz : 3.757 dBm T2 : 5728.167 MHz : 4.031 dBm OBW : 36.269 MHz	Measured 26 dB Bandwidth: 41.500 MHz Measured 99% Bandwidth: 36.269 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

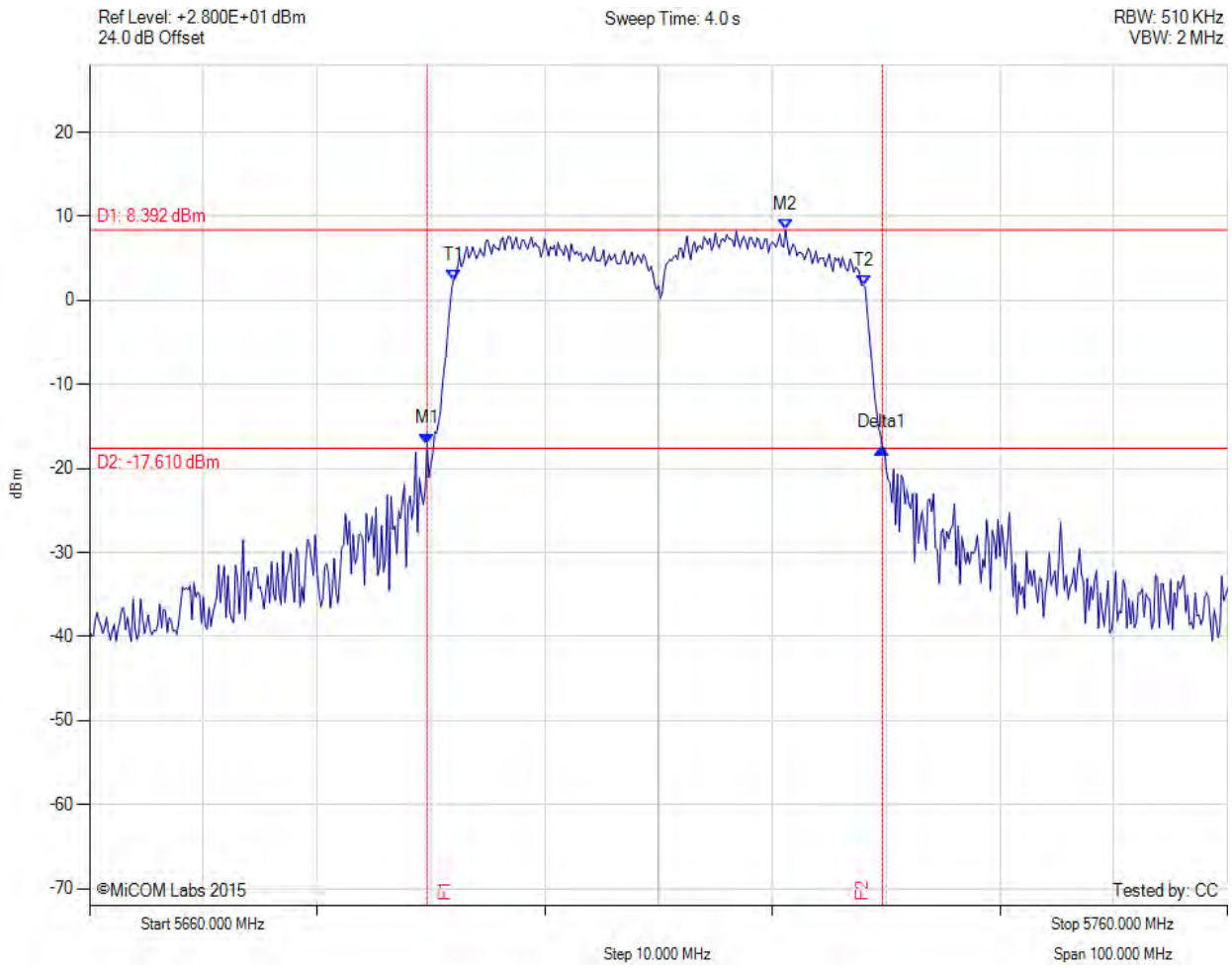


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5689.830 MHz : -17.143 dBm M2 : 5720.670 MHz : 8.170 dBm Delta1 : 39.670 MHz : 2.630 dB T1 : 5692.000 MHz : 2.762 dBm T2 : 5728.167 MHz : 2.597 dBm OBW : 36.119 MHz	Measured 26 dB Bandwidth: 39.670 MHz Measured 99% Bandwidth: 36.119 MHz

back to matrix

26 dB & 99% BANDWIDTH

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

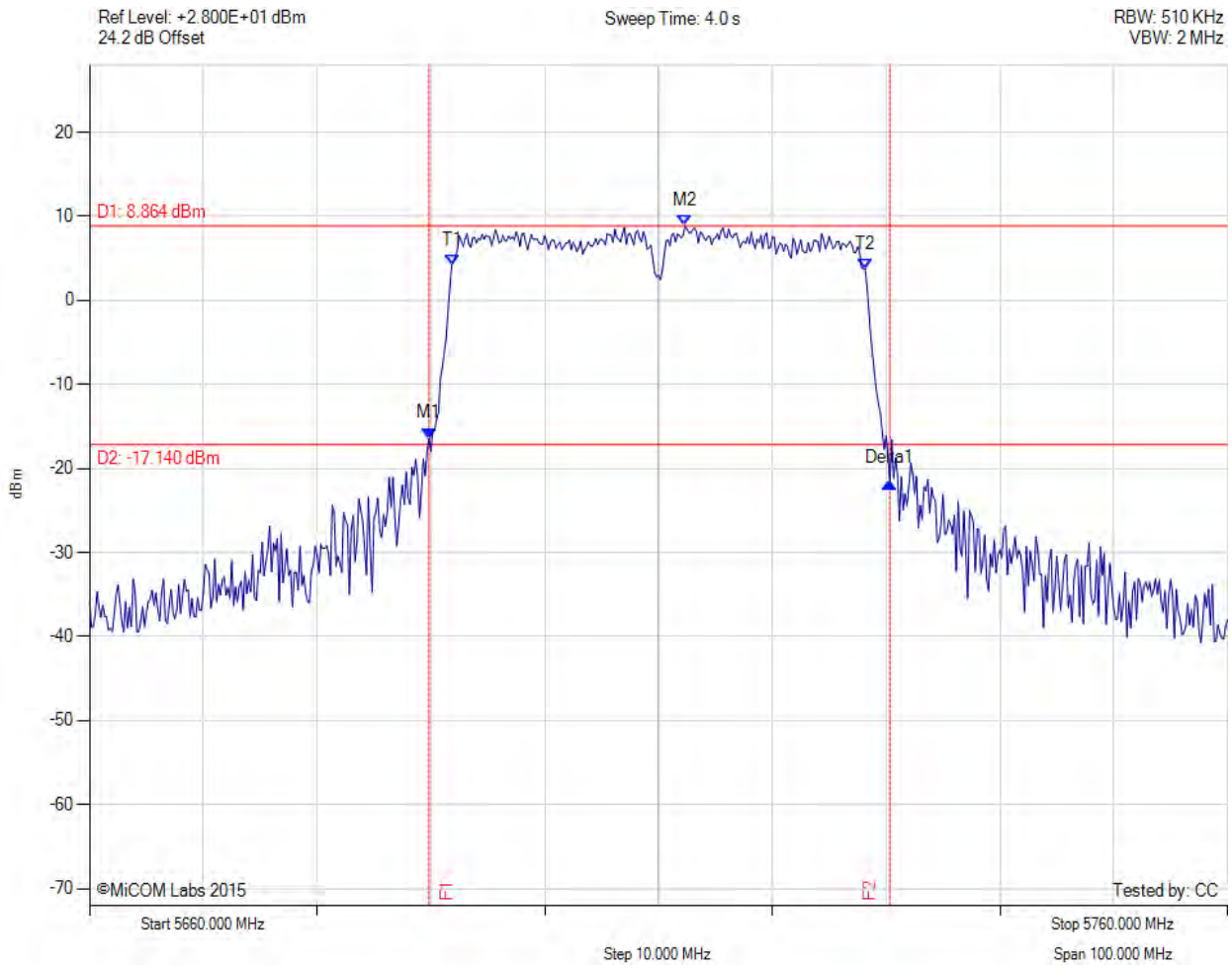


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5689.670 MHz : -17.058 dBm M2 : 5721.170 MHz : 8.392 dBm Delta1 : 40.000 MHz : -0.480 dB T1 : 5692.000 MHz : 2.469 dBm T2 : 5728.000 MHz : 1.790 dBm OBW : 35.959 MHz	Measured 26 dB Bandwidth: 40.000 MHz Measured 99% Bandwidth: 35.959 MHz

back to matrix

26 dB & 99% BANDWIDTH

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



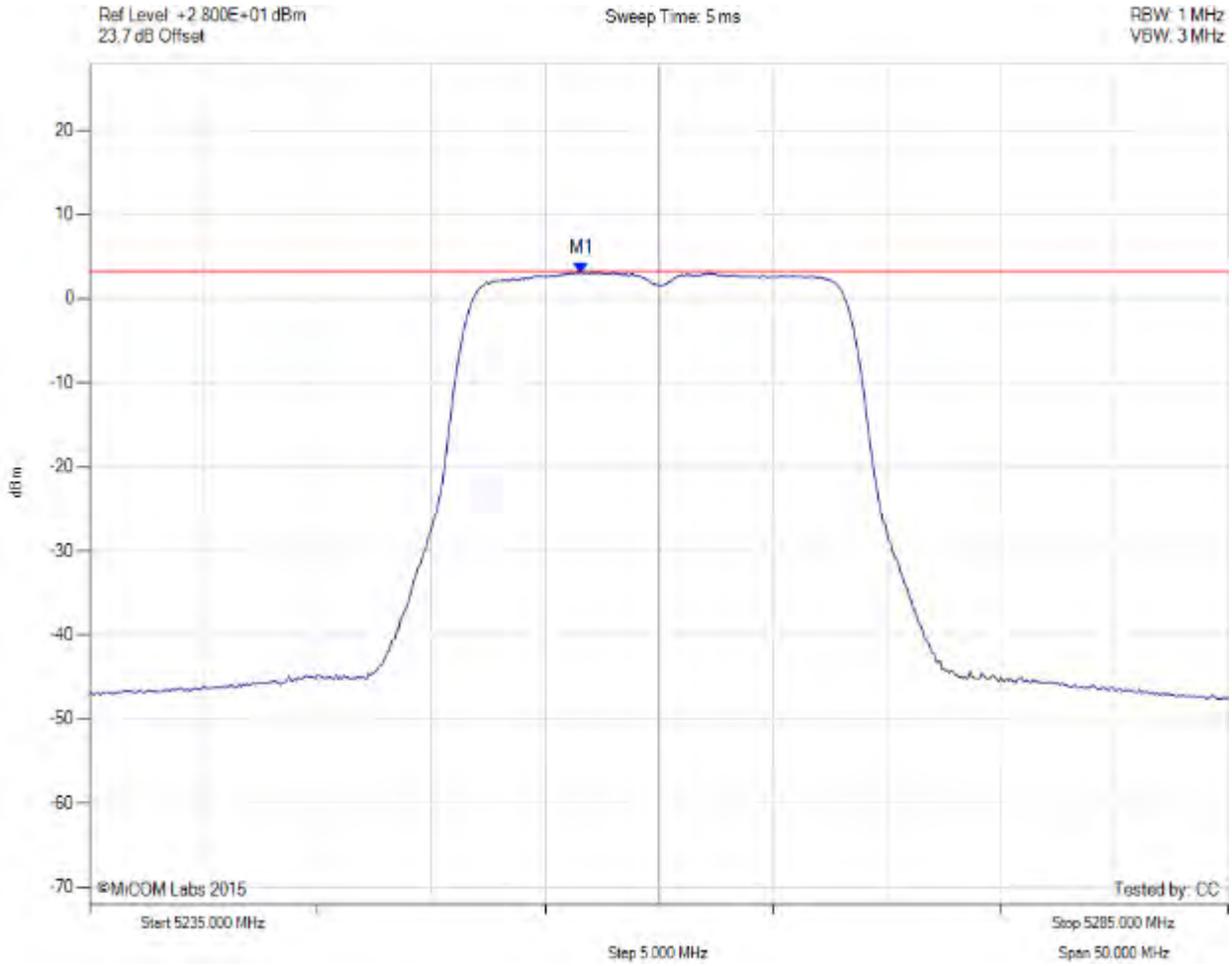
Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = POS Sweep Count = 0 RF Atten (dB) = 20 Trace Mode = MAXH	M1 : 5689.830 MHz : -16.405 dBm M2 : 5712.330 MHz : 8.864 dBm Delta1 : 40.500 MHz : -5.353 dB T1 : 5691.833 MHz : 4.247 dBm T2 : 5728.167 MHz : 3.776 dBm OBW : 36.161 MHz	Measured 26 dB Bandwidth: 40.500 MHz Measured 99% Bandwidth: 36.161 MHz

back to matrix

A.2. Power Spectral Density

POWER SPECTRAL DENSITY

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

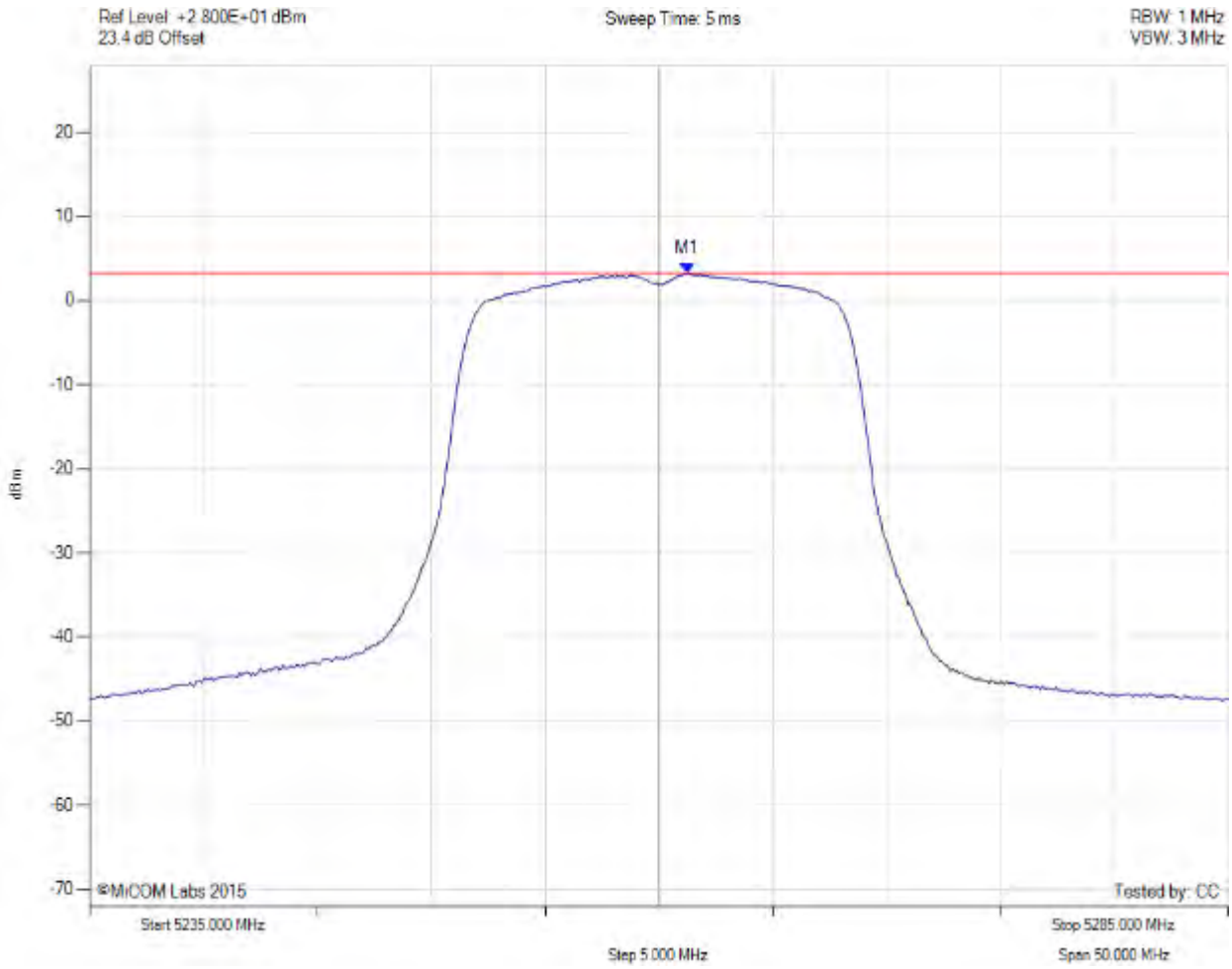


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5256.580 MHz : 3.094 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

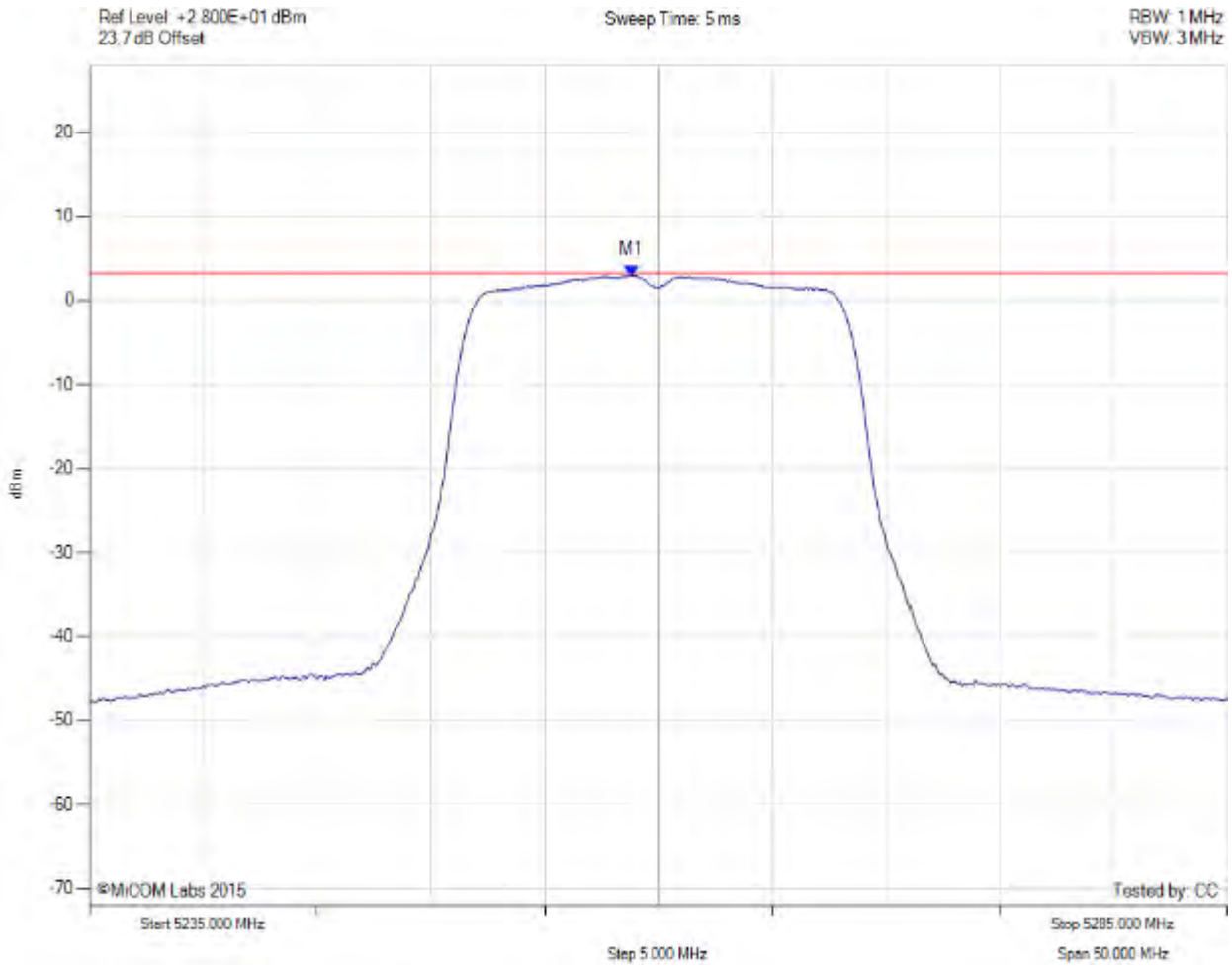


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5261.250 MHz : 3.203 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

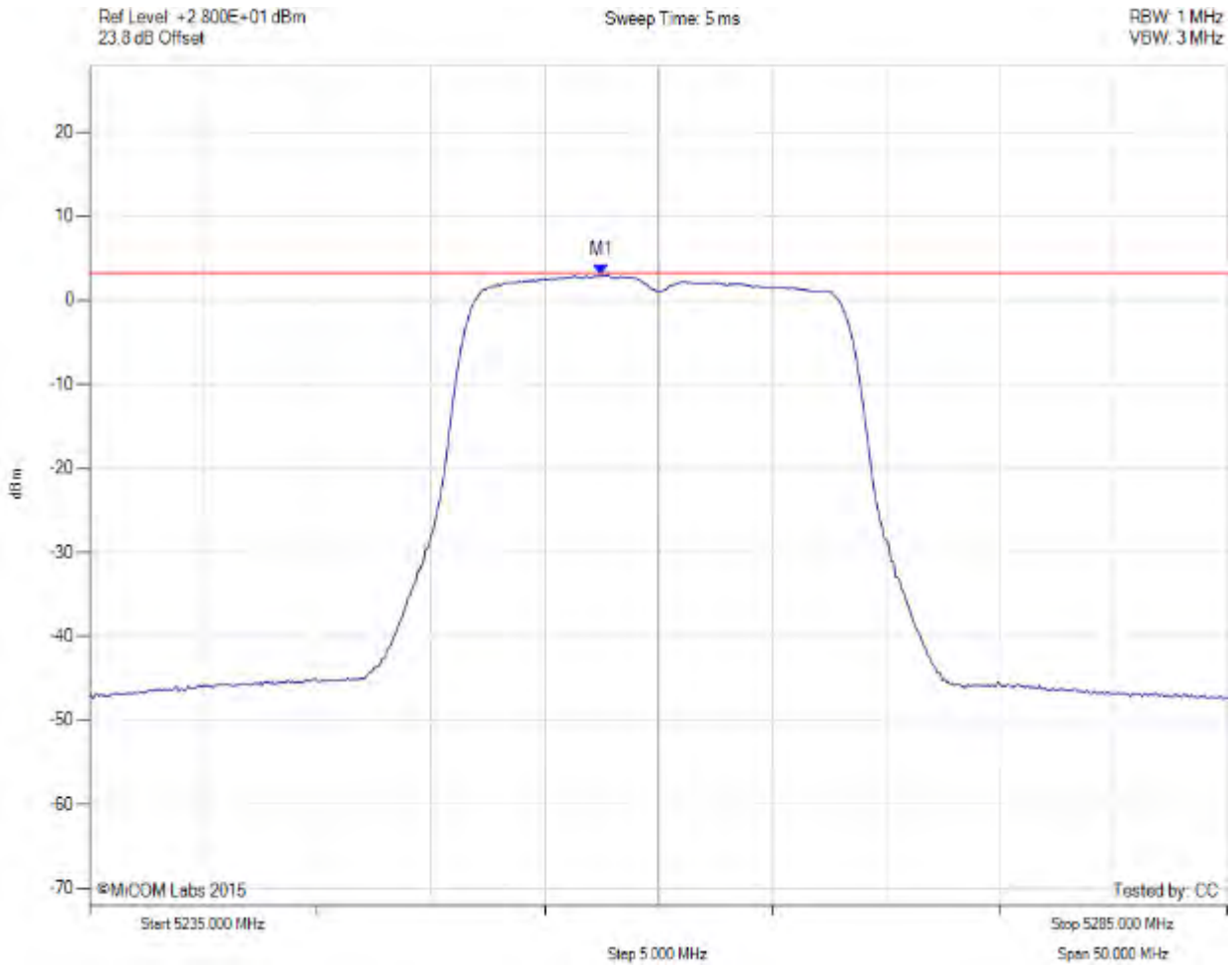


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.830 MHz : 2.967 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

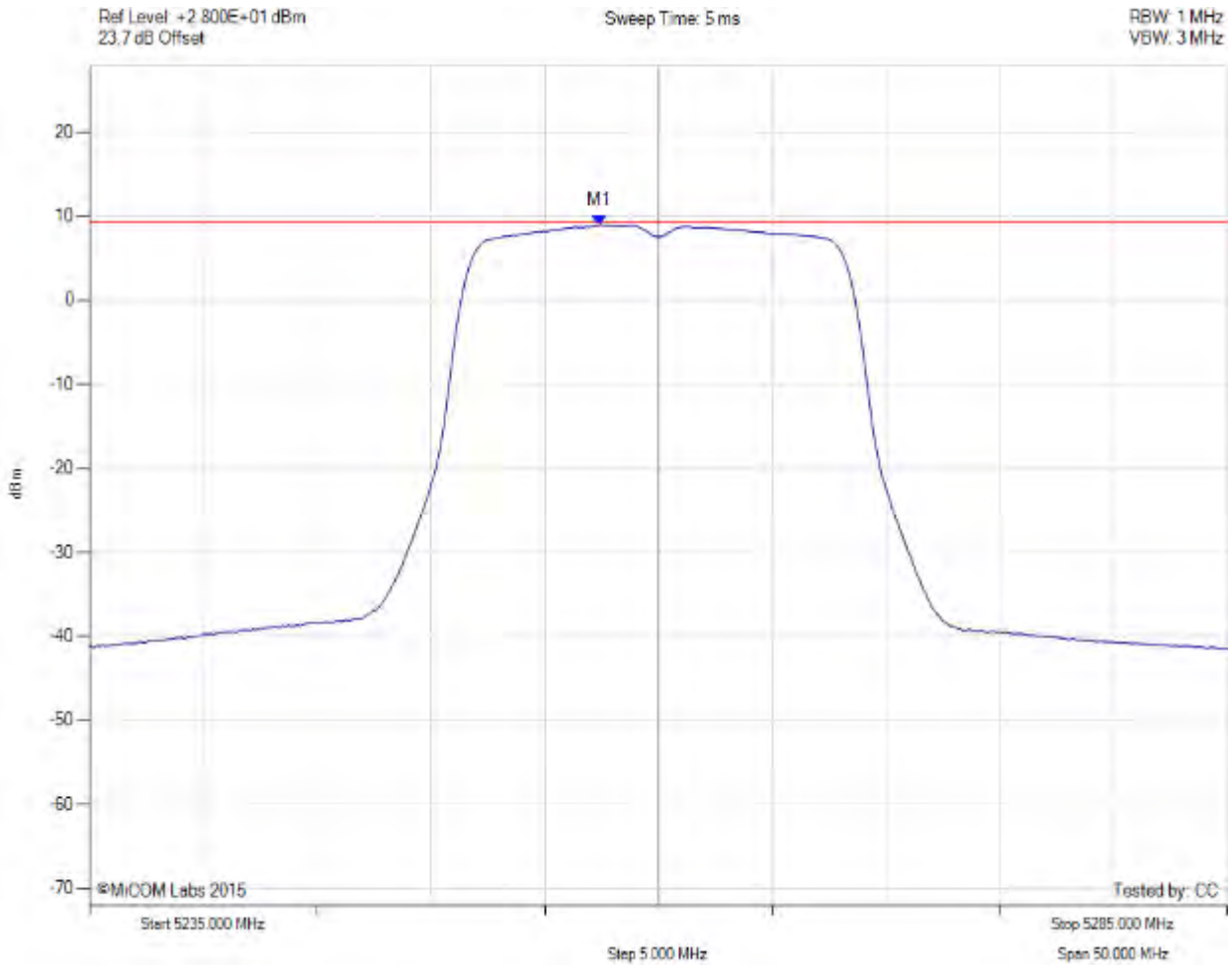


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.500 MHz : 3.080 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

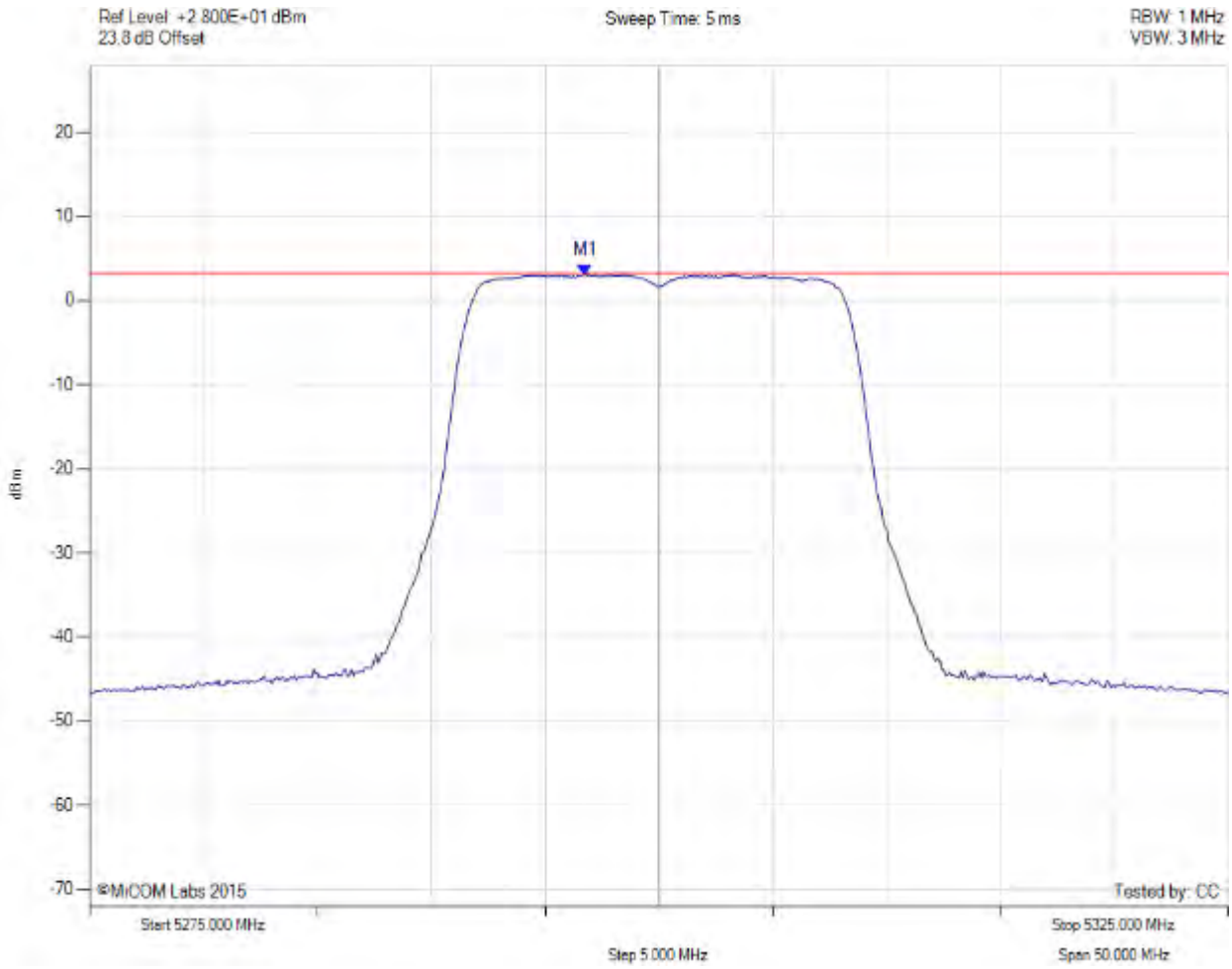


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.400 MHz : 8.937 dBm M1 + DCCF : 5257.400 MHz : 9.114 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.2 dB

back to matrix

POWER SPECTRAL DENSITY

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

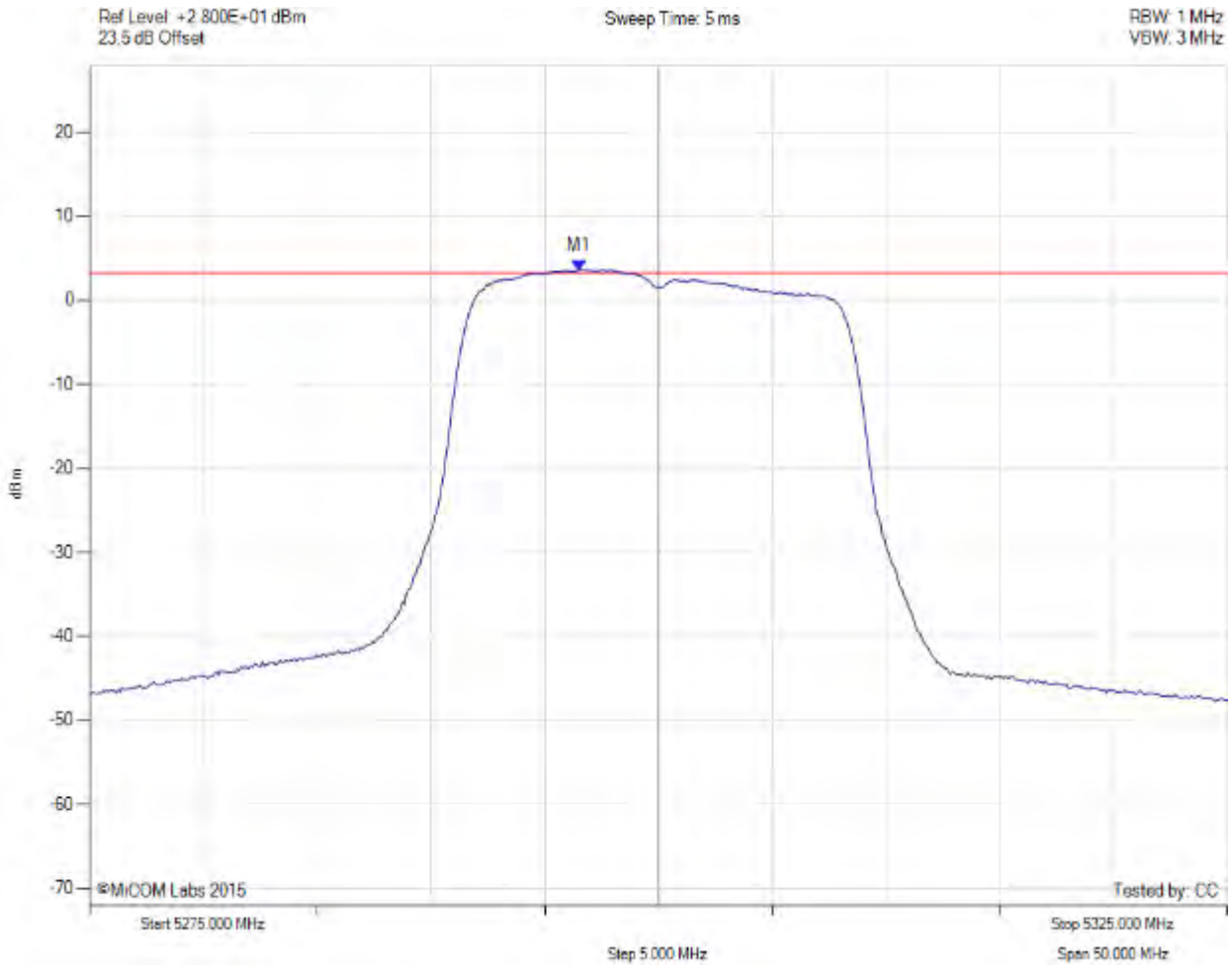


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.750 MHz : 3.109 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

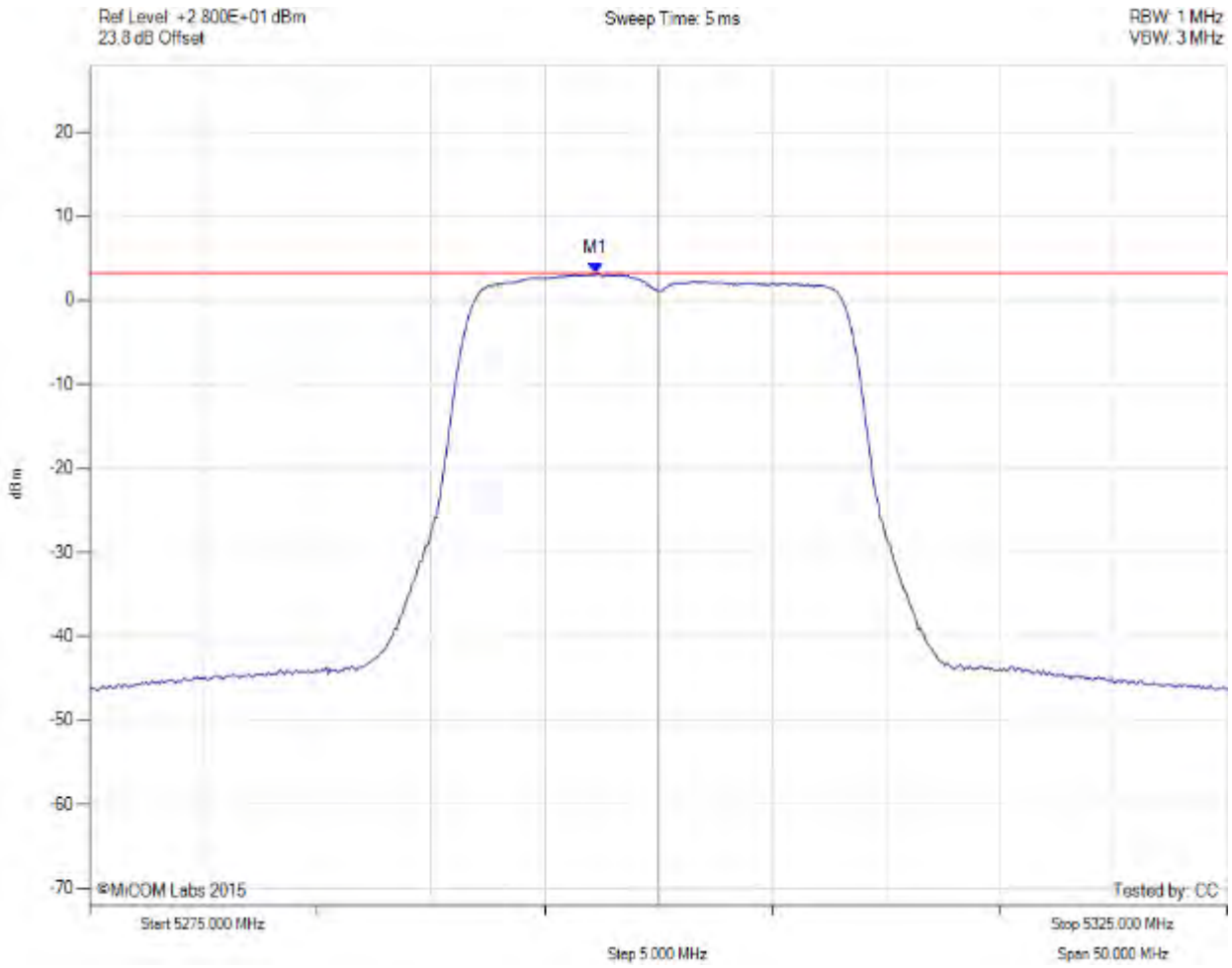


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.500 MHz : 3.604 dBm	Channel Frequency: 5300.00 MHz

back to matrix

POWER SPECTRAL DENSITY

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

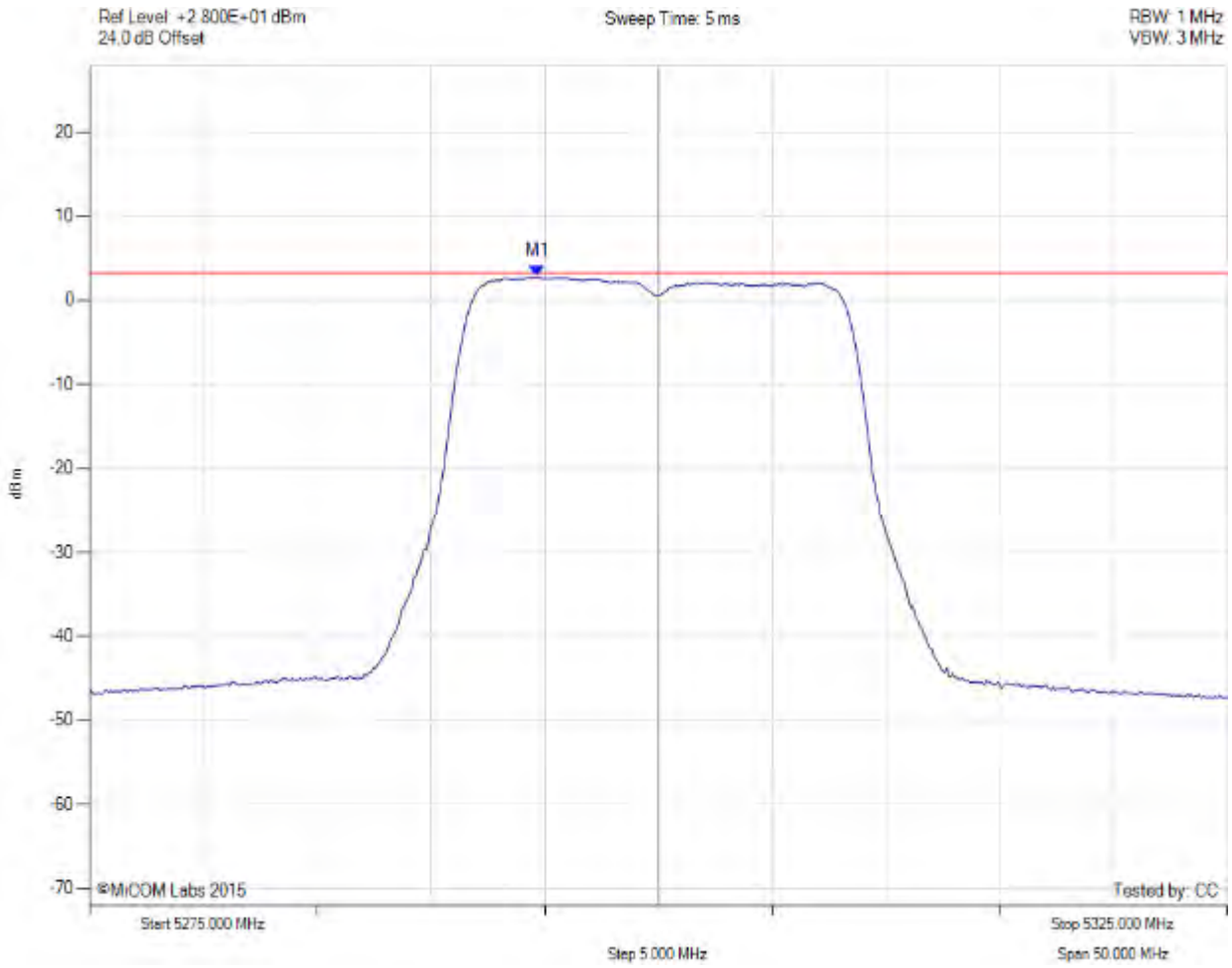


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.250 MHz : 3.152 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

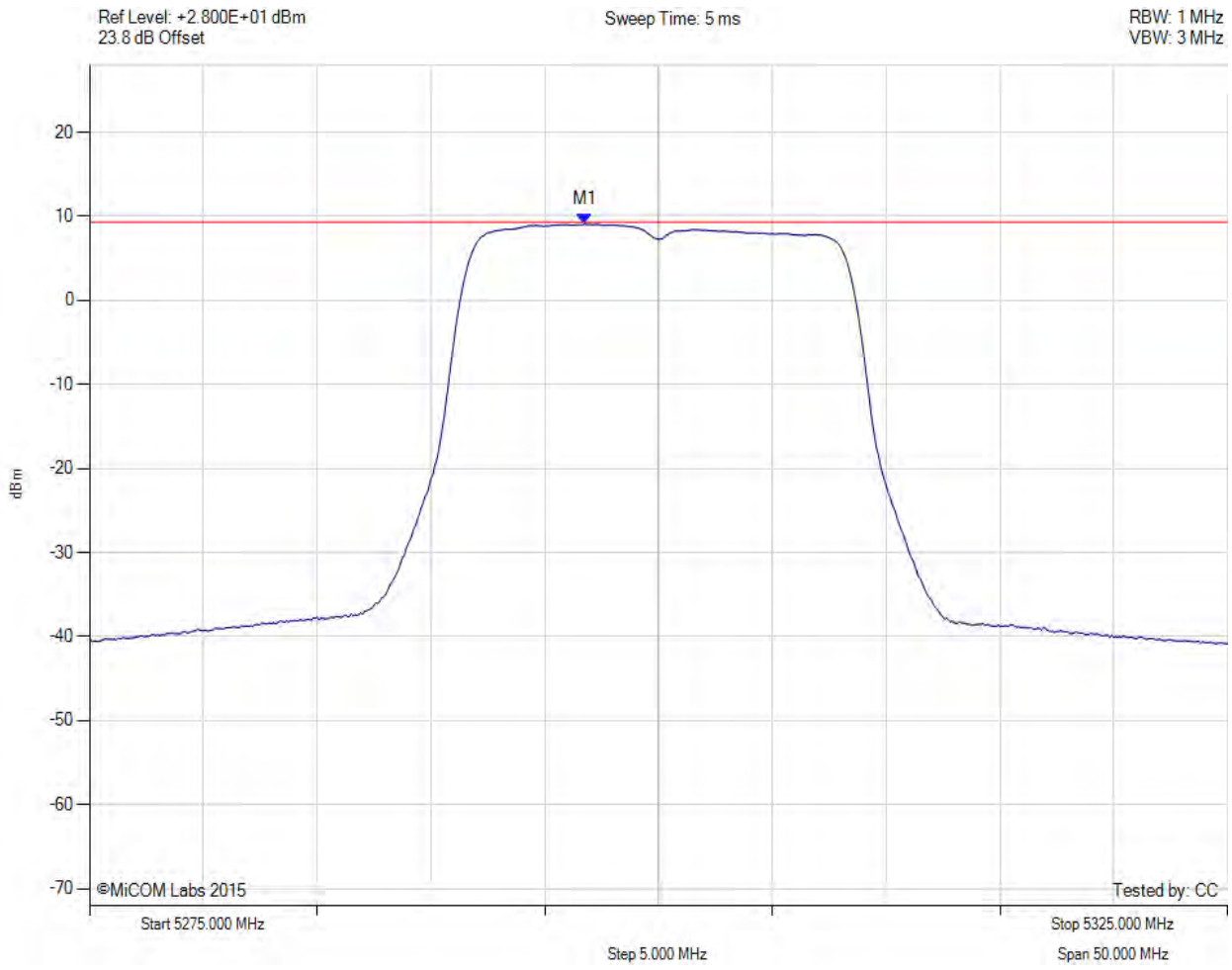


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5294.670 MHz : 2.827 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

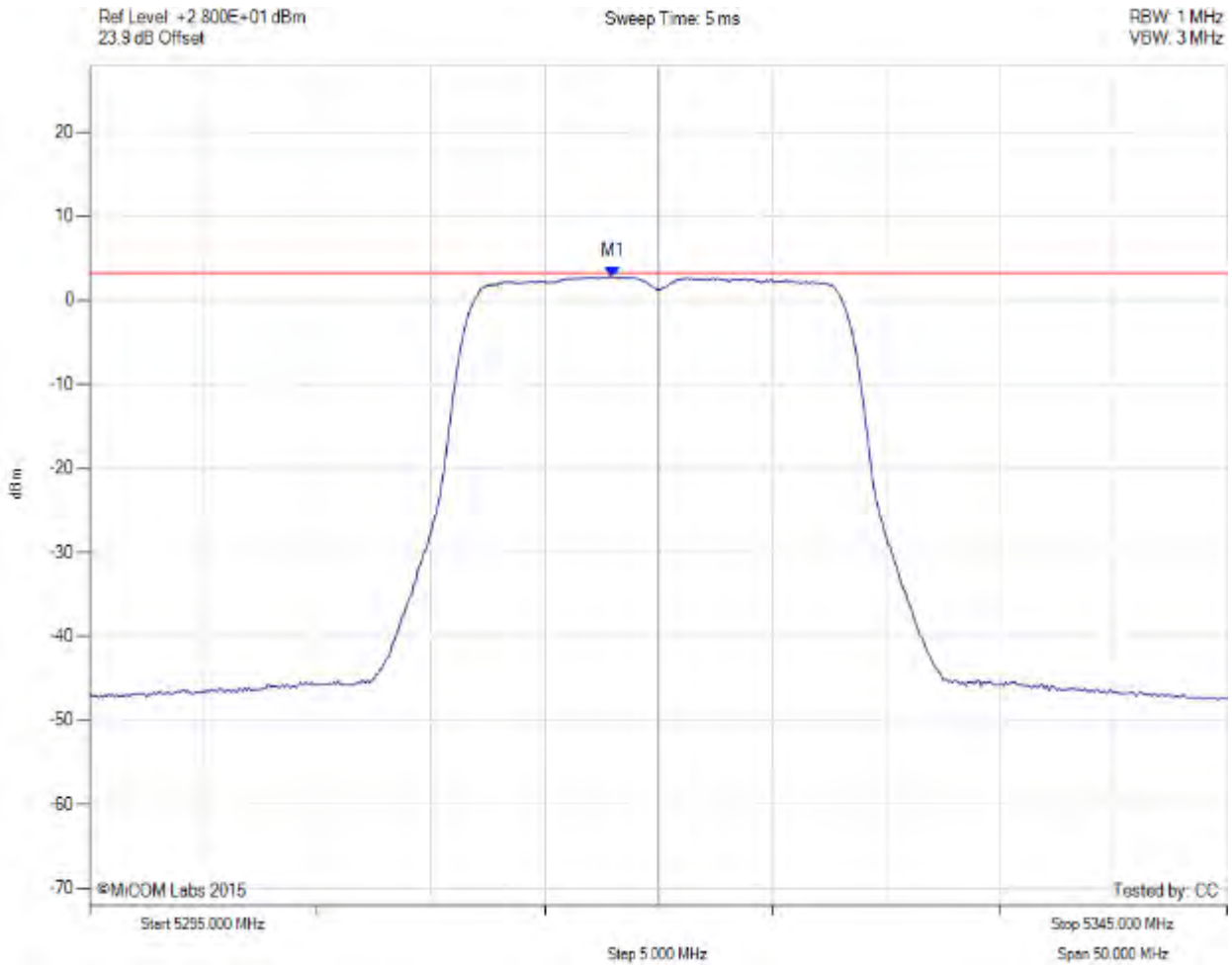


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.800 MHz : 9.076 dBm M1 + DCCF : 5296.800 MHz : 9.253 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.1 dB

back to matrix

POWER SPECTRAL DENSITY

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

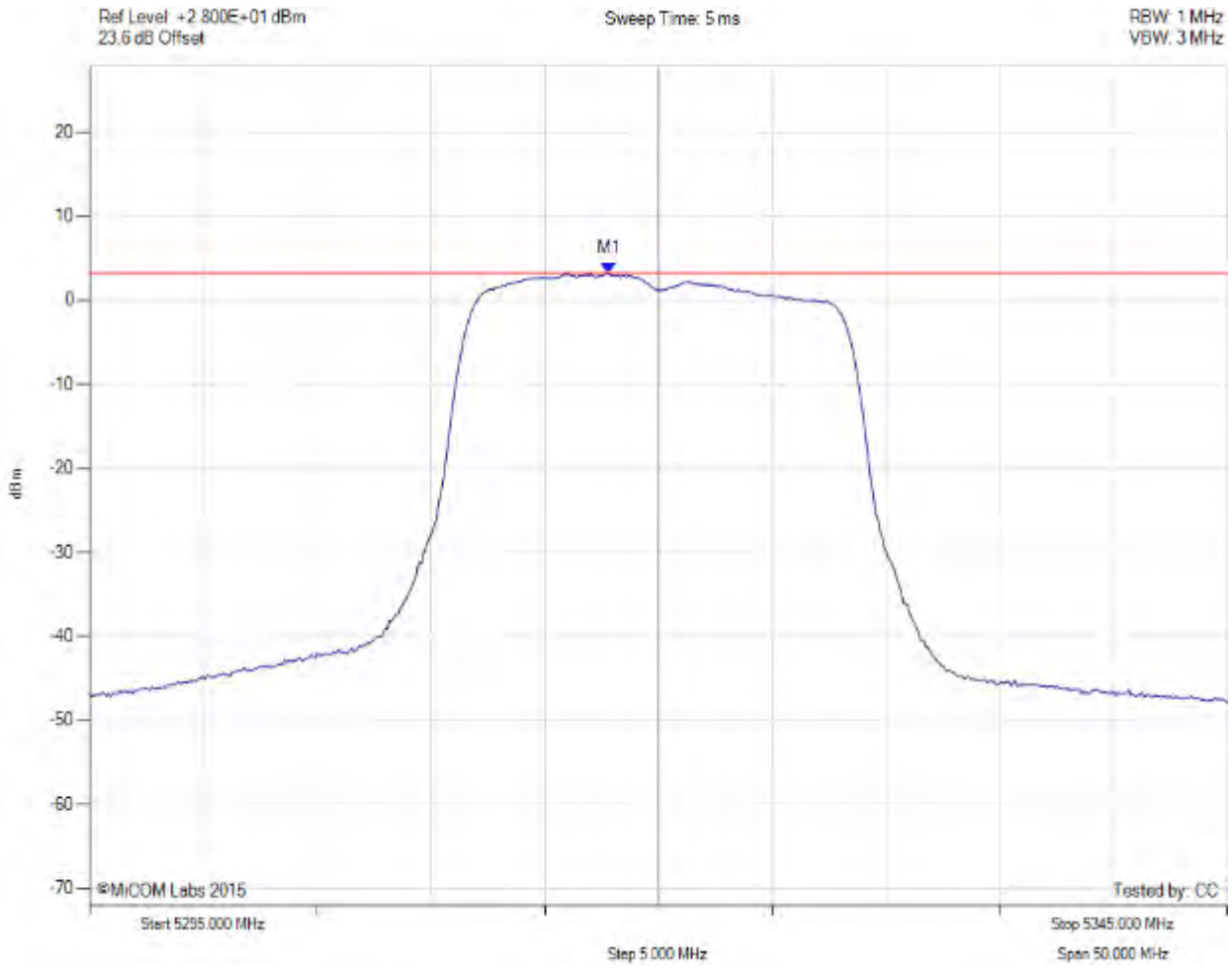


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5318.000 MHz : 2.806 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

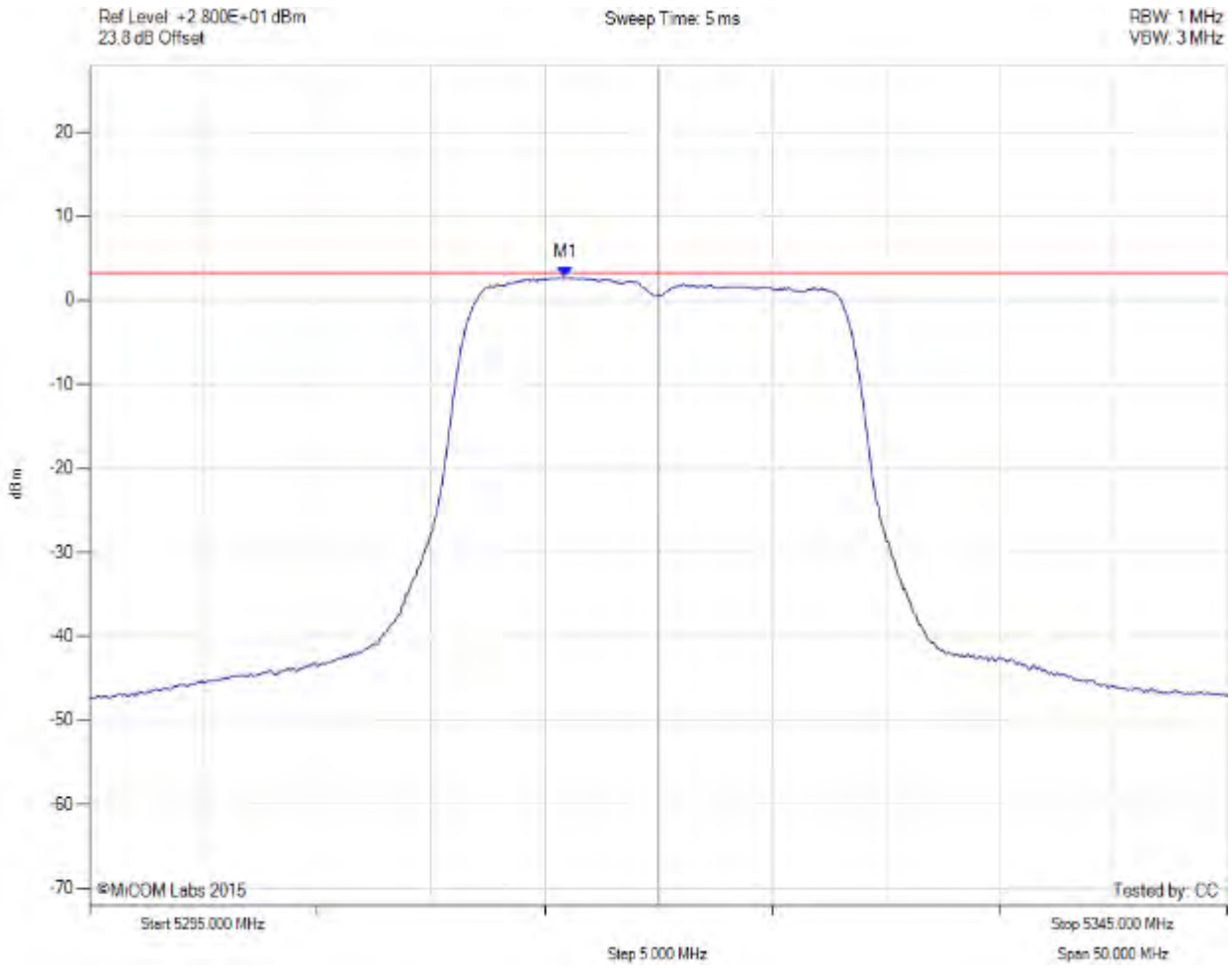


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.830 MHz : 3.227 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

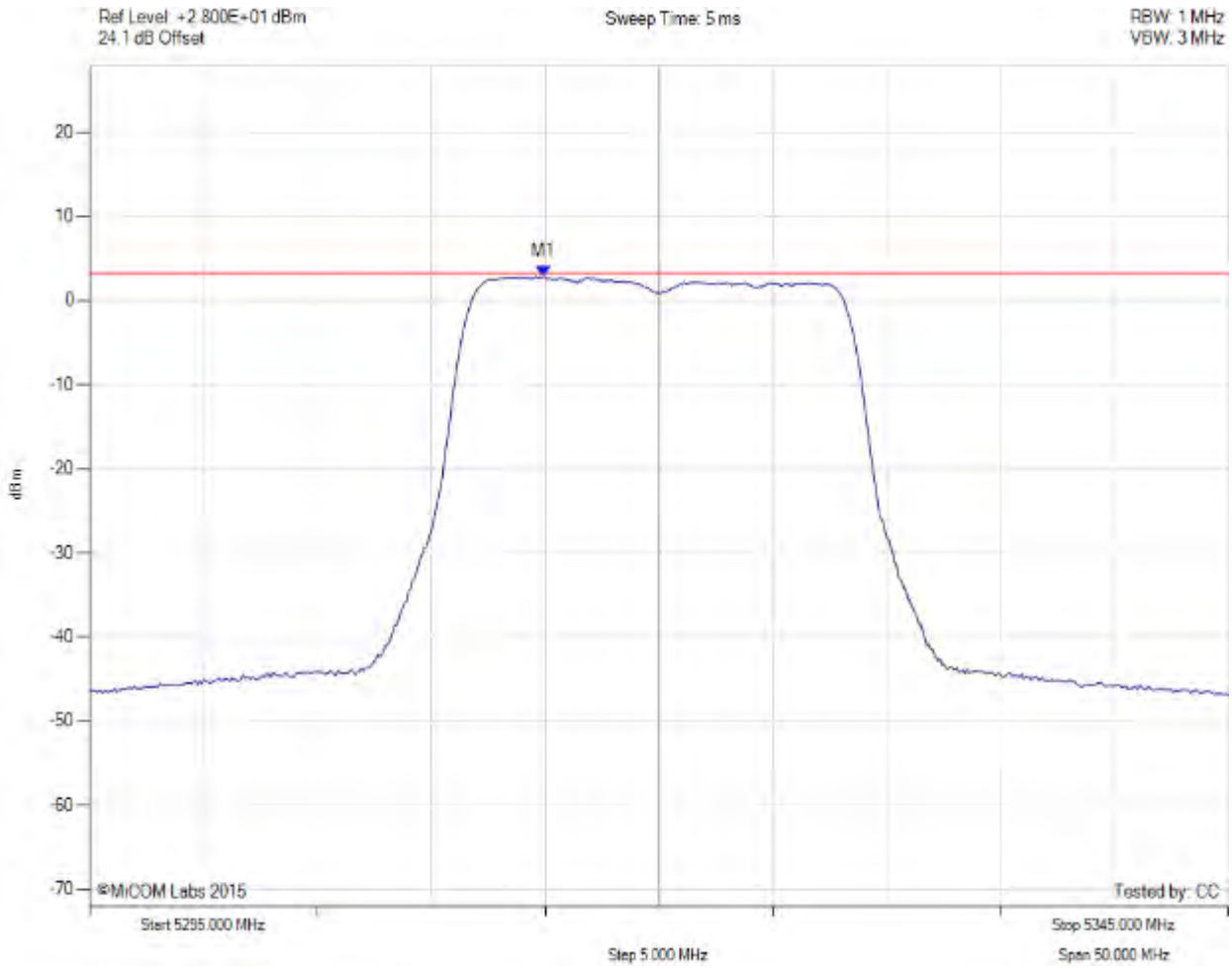


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5315.920 MHz : 2.670 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

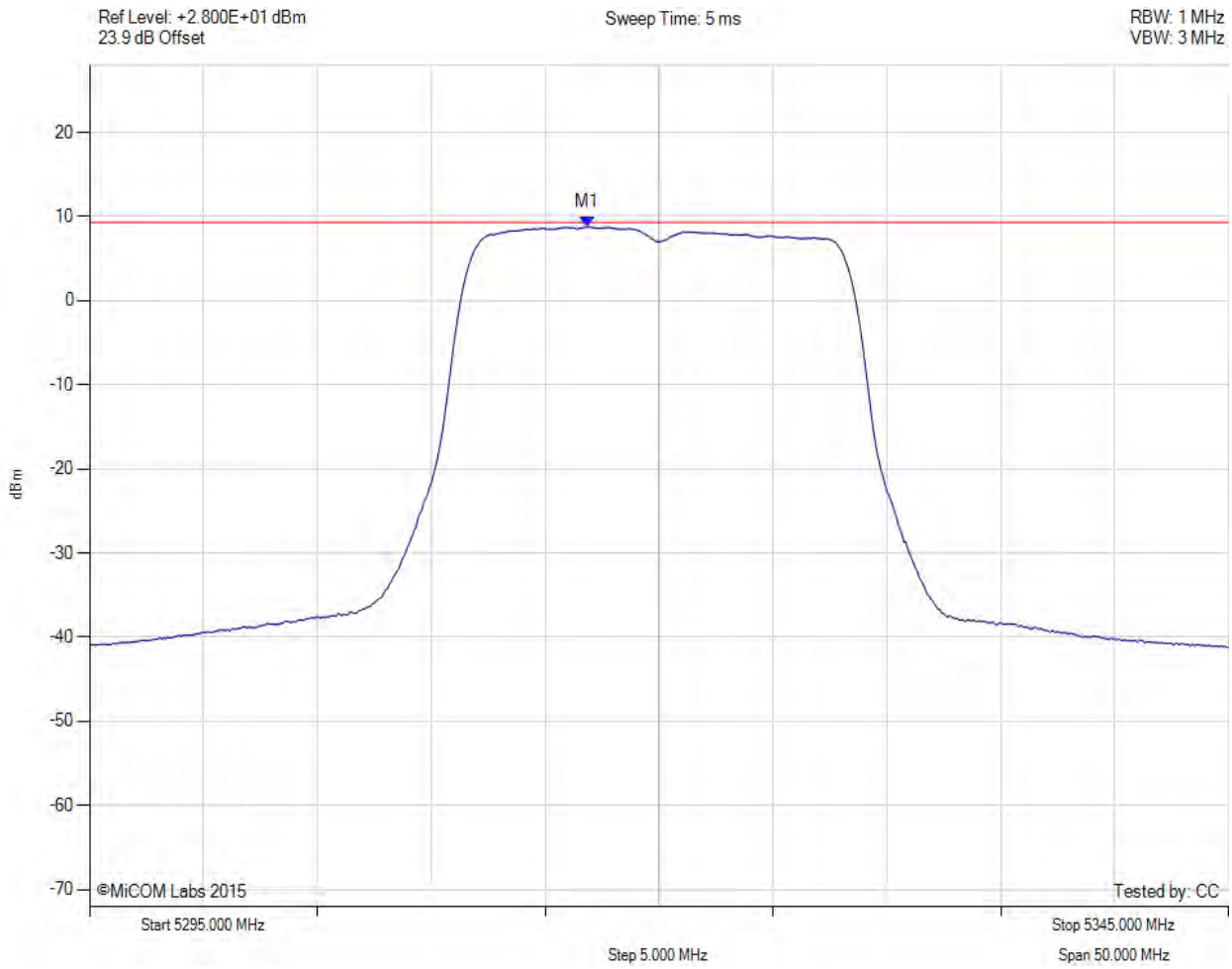


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5314.920 MHz : 2.881 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

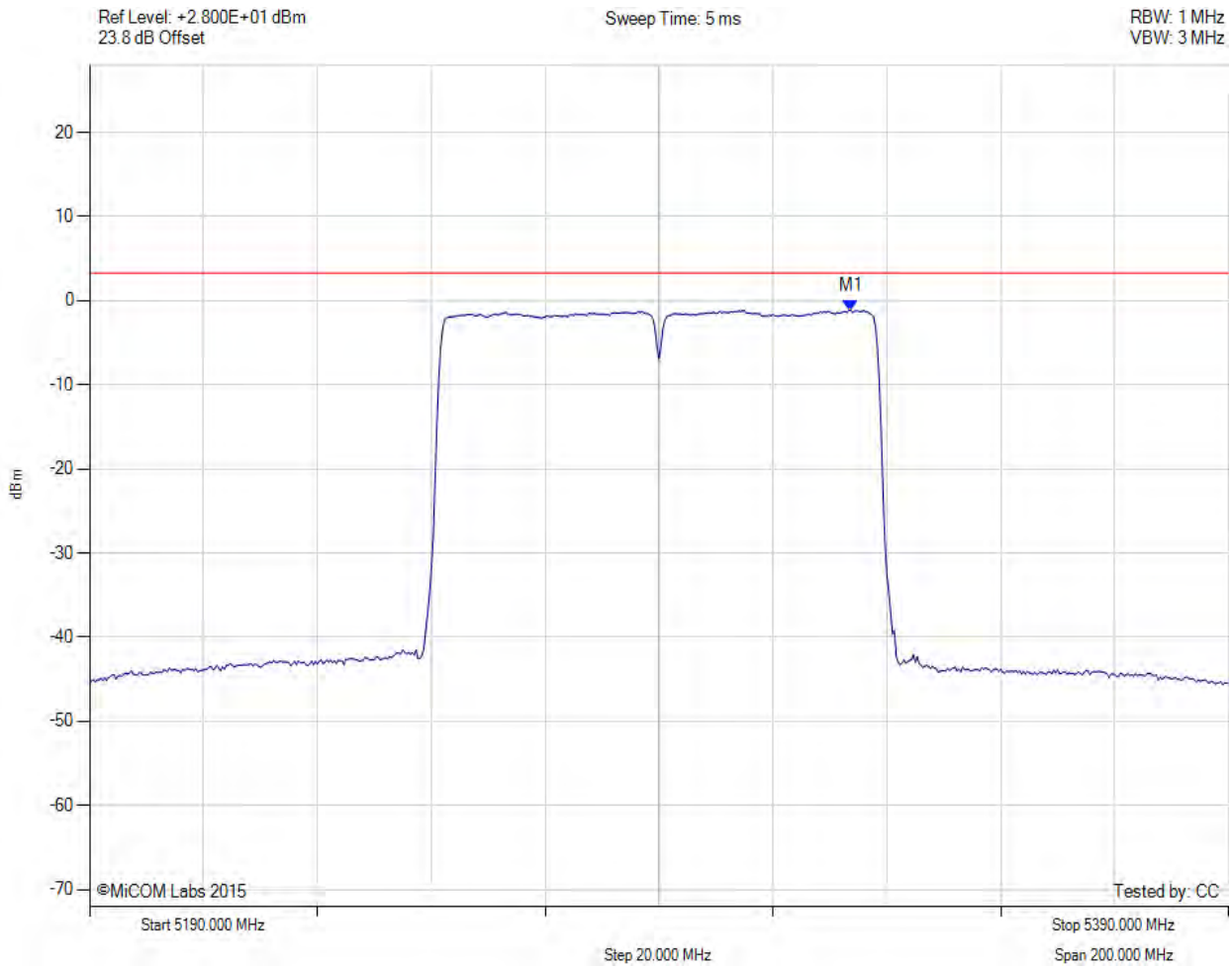


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5316.800 MHz : 8.770 dBm M1 + DCCF : 5316.800 MHz : 8.947 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.4 dB

back to matrix

POWER SPECTRAL DENSITY

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

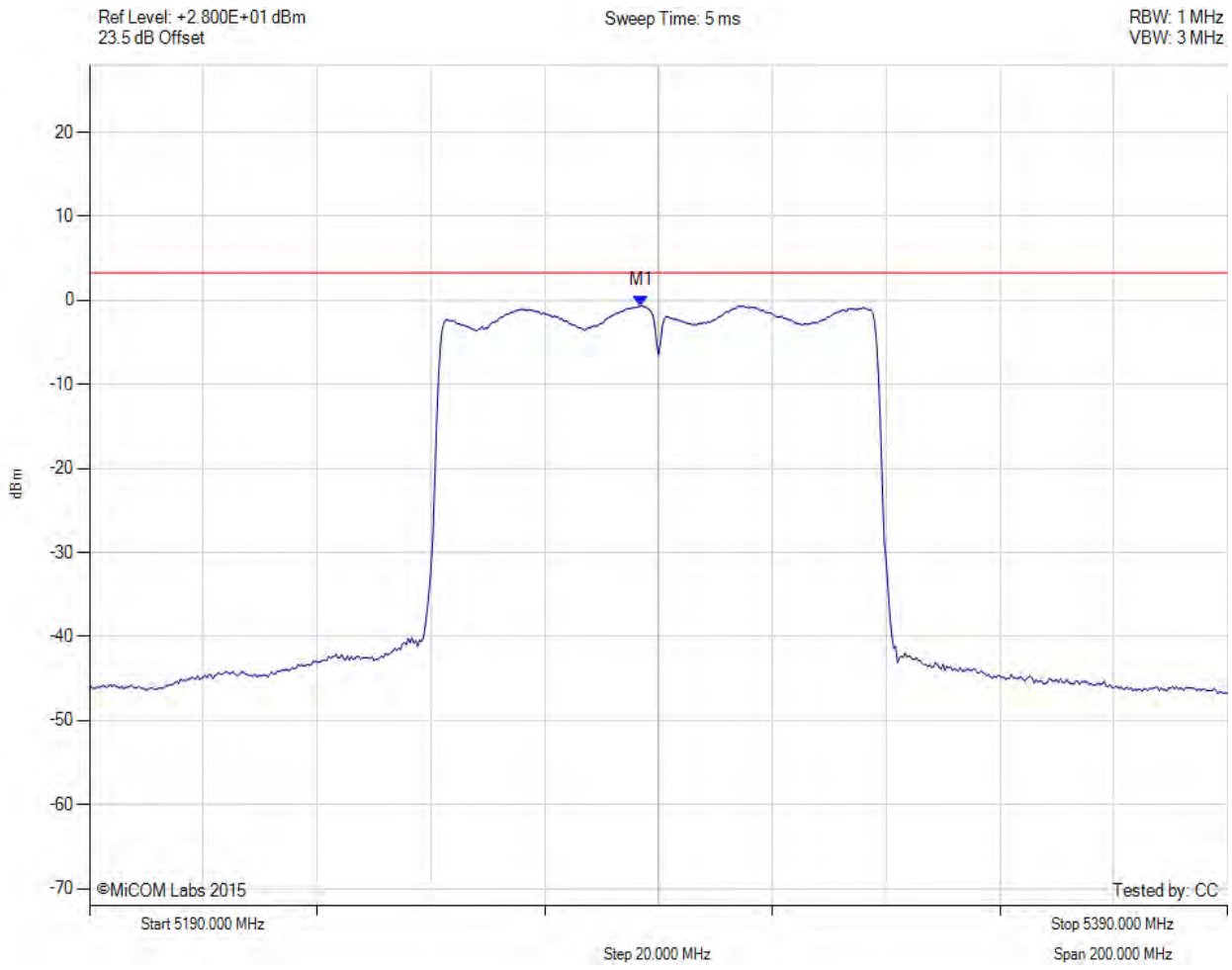


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5323.700 MHz : -1.123 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

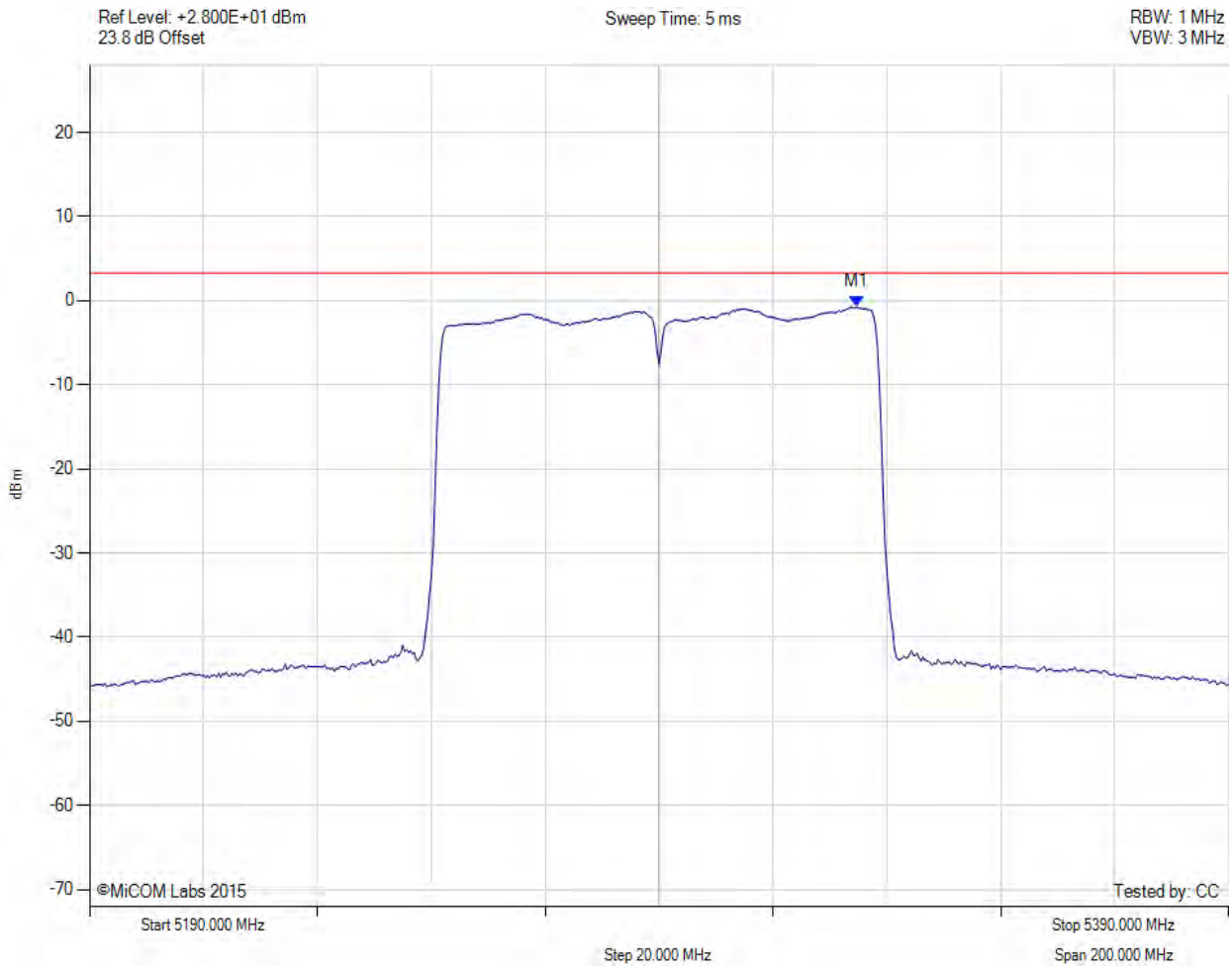


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5287.000 MHz : -0.611 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc

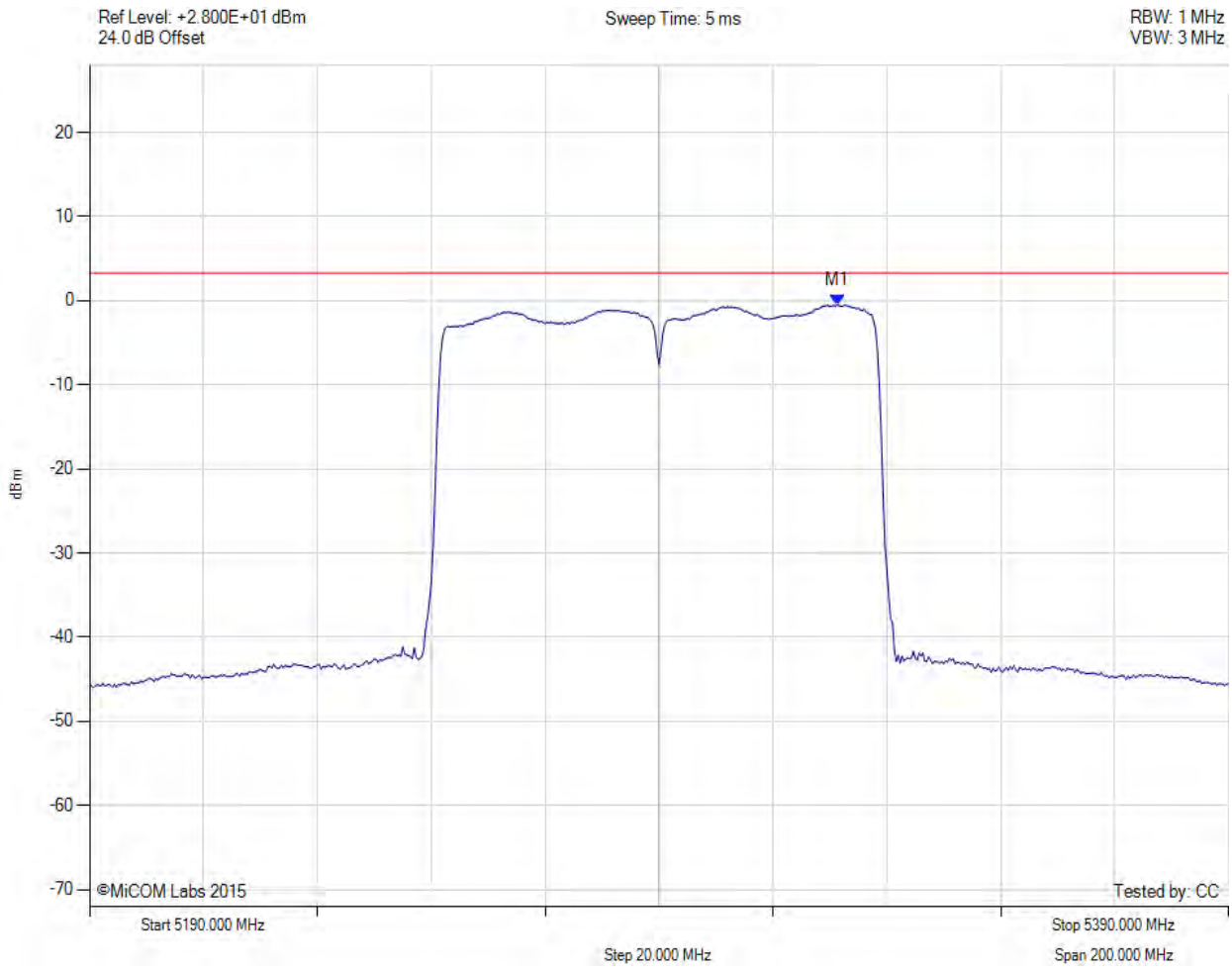


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5324.700 MHz : -0.710 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5290.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc

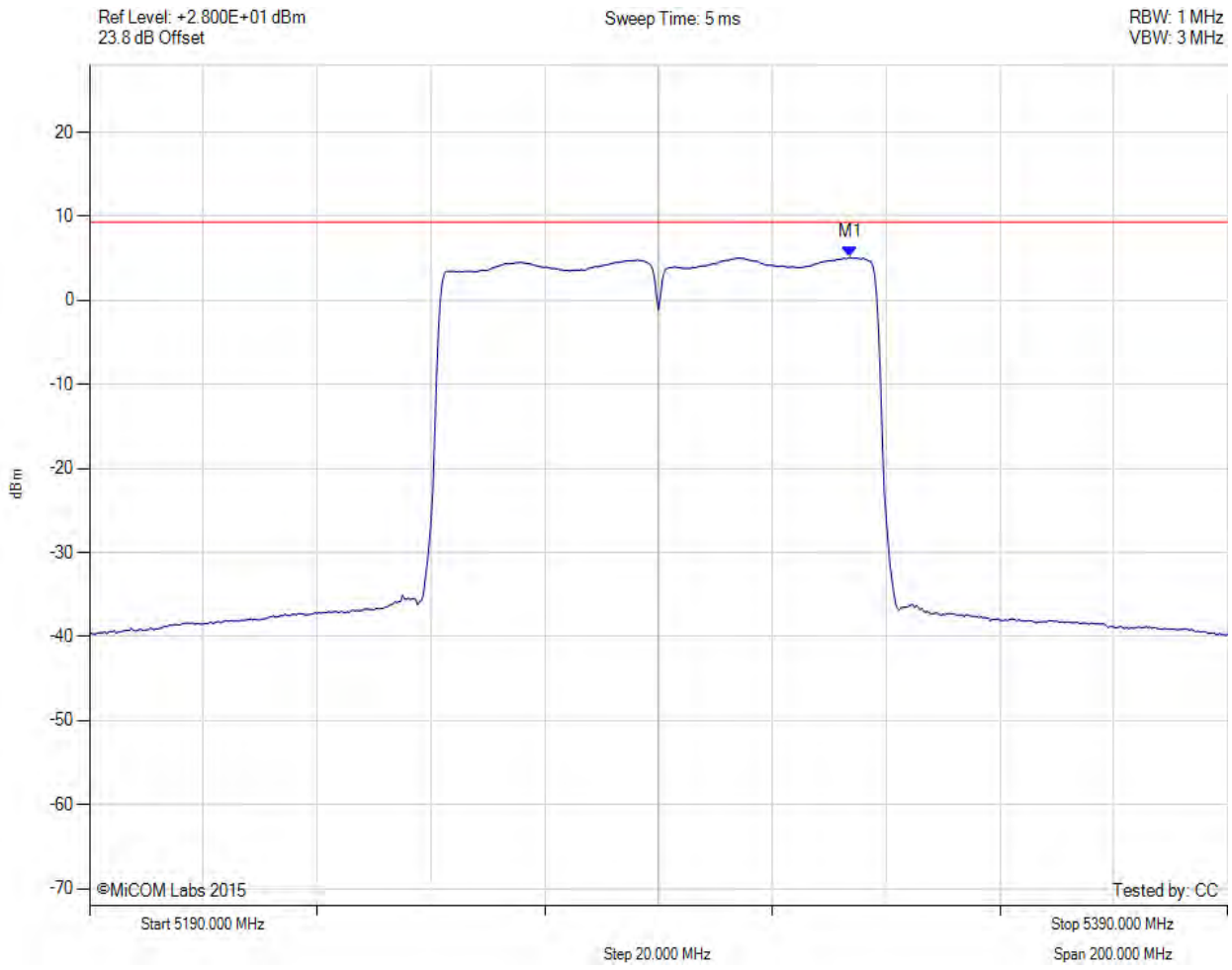


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5321.300 MHz : -0.489 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

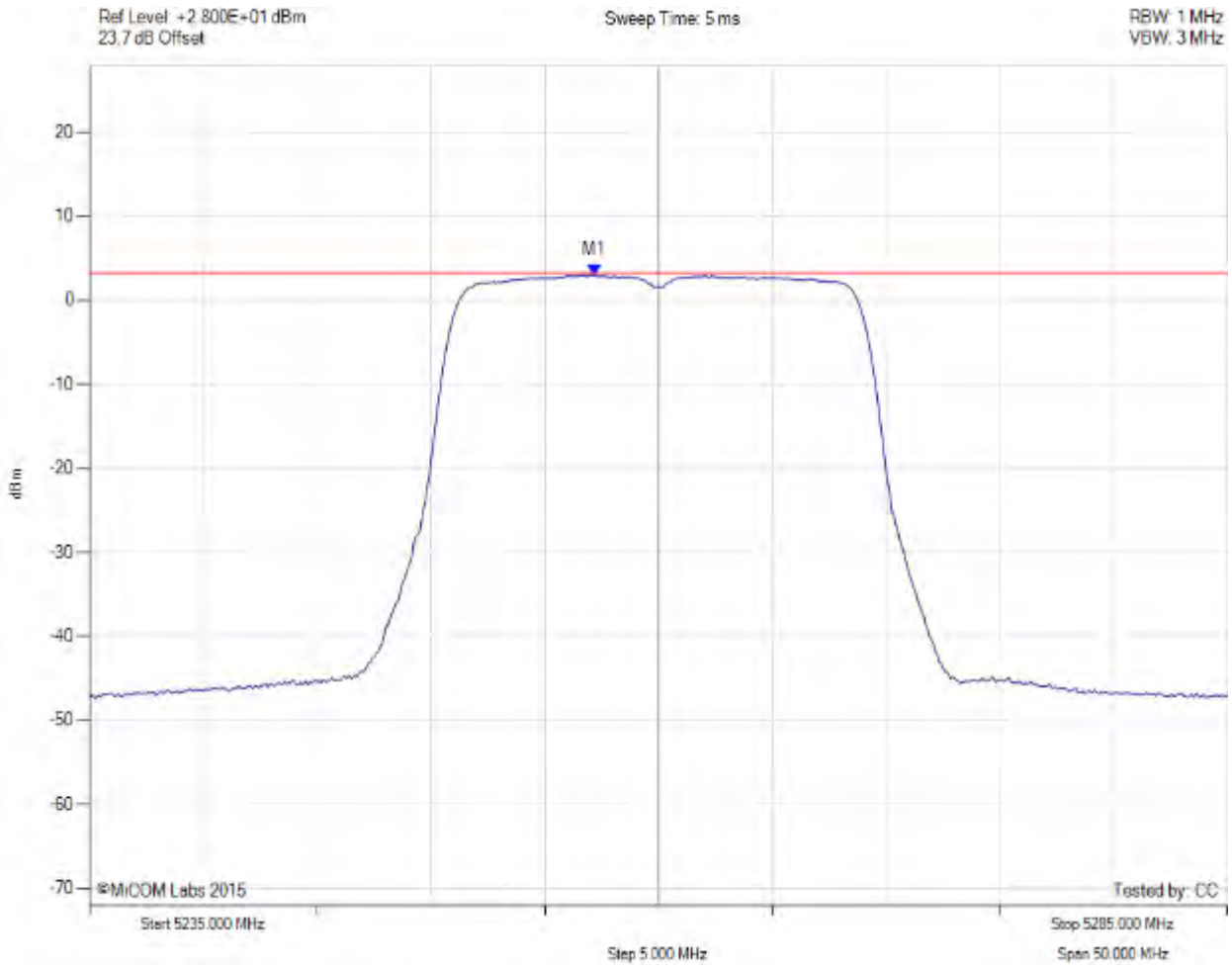


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5323.700 MHz : 5.124 dBm M1 + DCCF : 5323.700 MHz : 5.534 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 9.3 dBm Margin: -3.8 dB

back to matrix

POWER SPECTRAL DENSITY

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



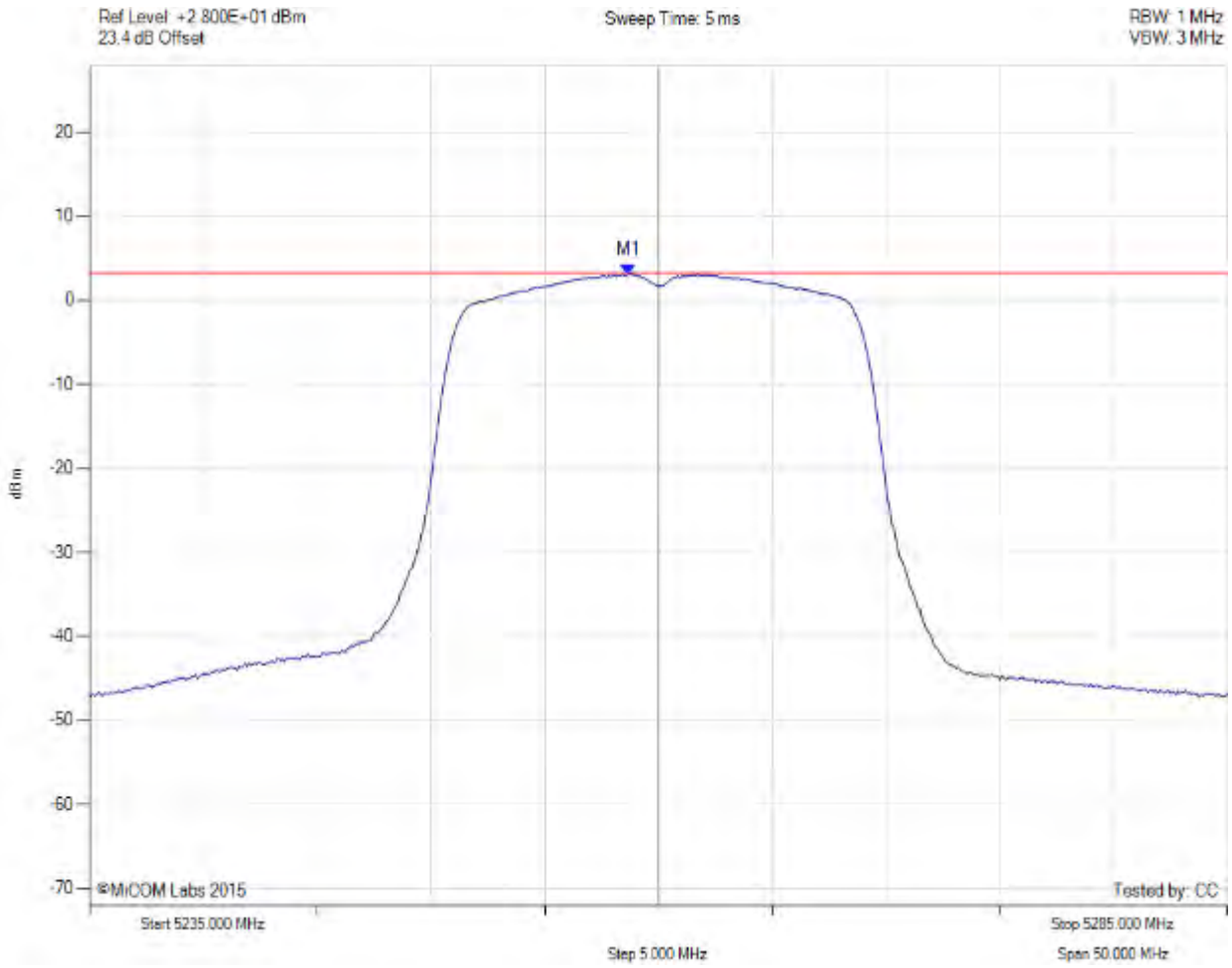
Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.170 MHz : 3.036 dBm	Limit: ≤ 3.280 dBm

back to matrix

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

POWER SPECTRAL DENSITY

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

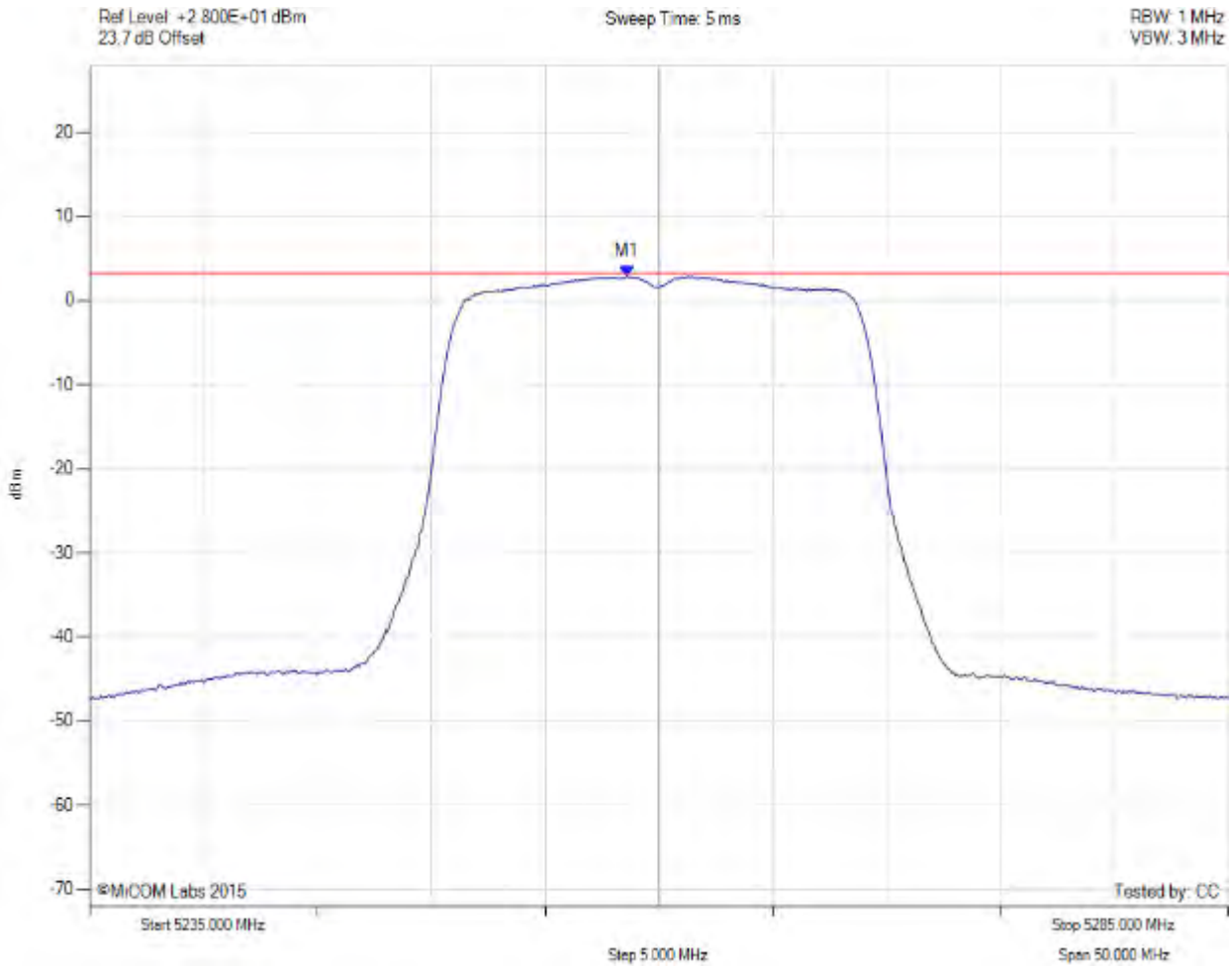


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.670 MHz : 3.106 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

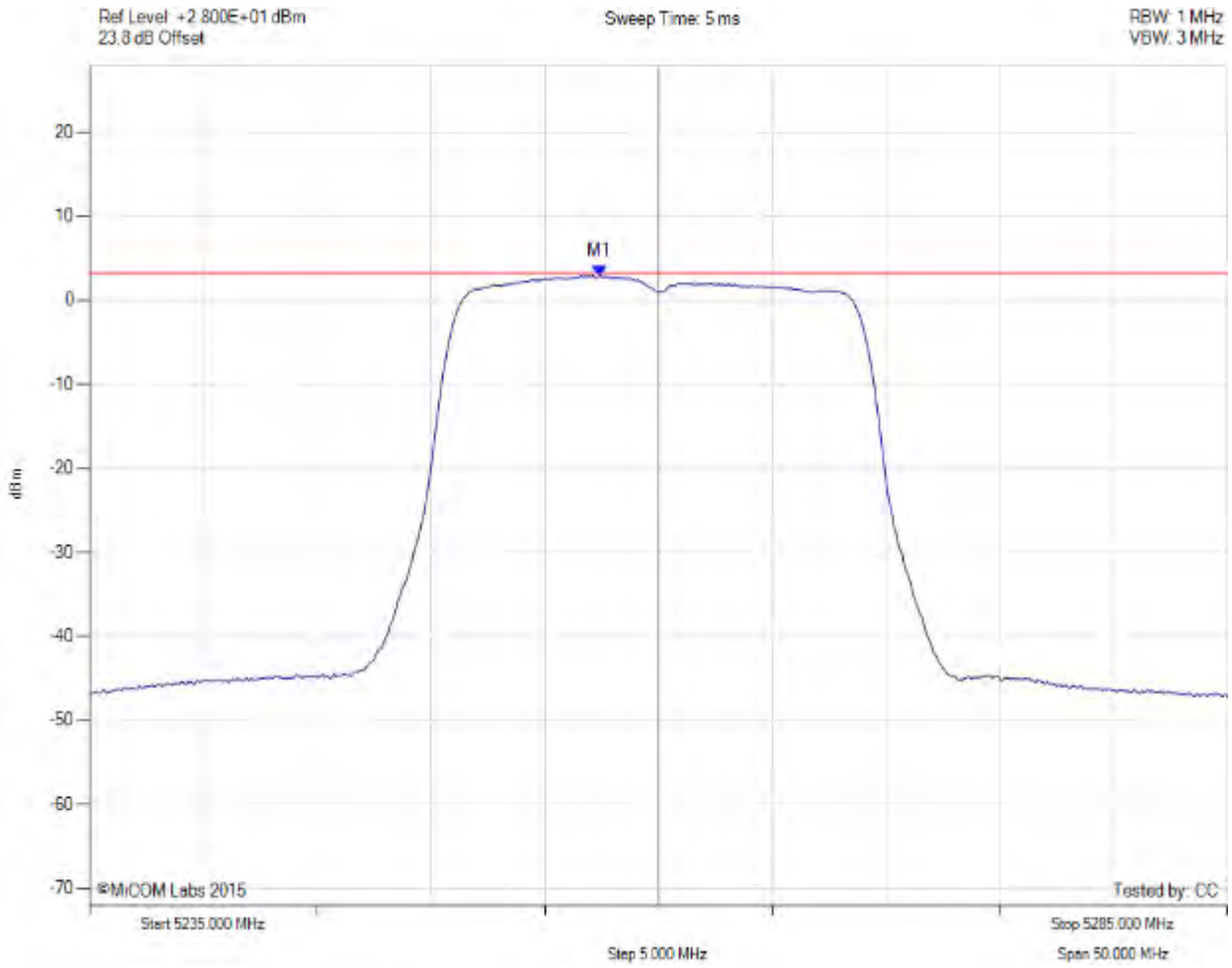


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5258.580 MHz : 2.953 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

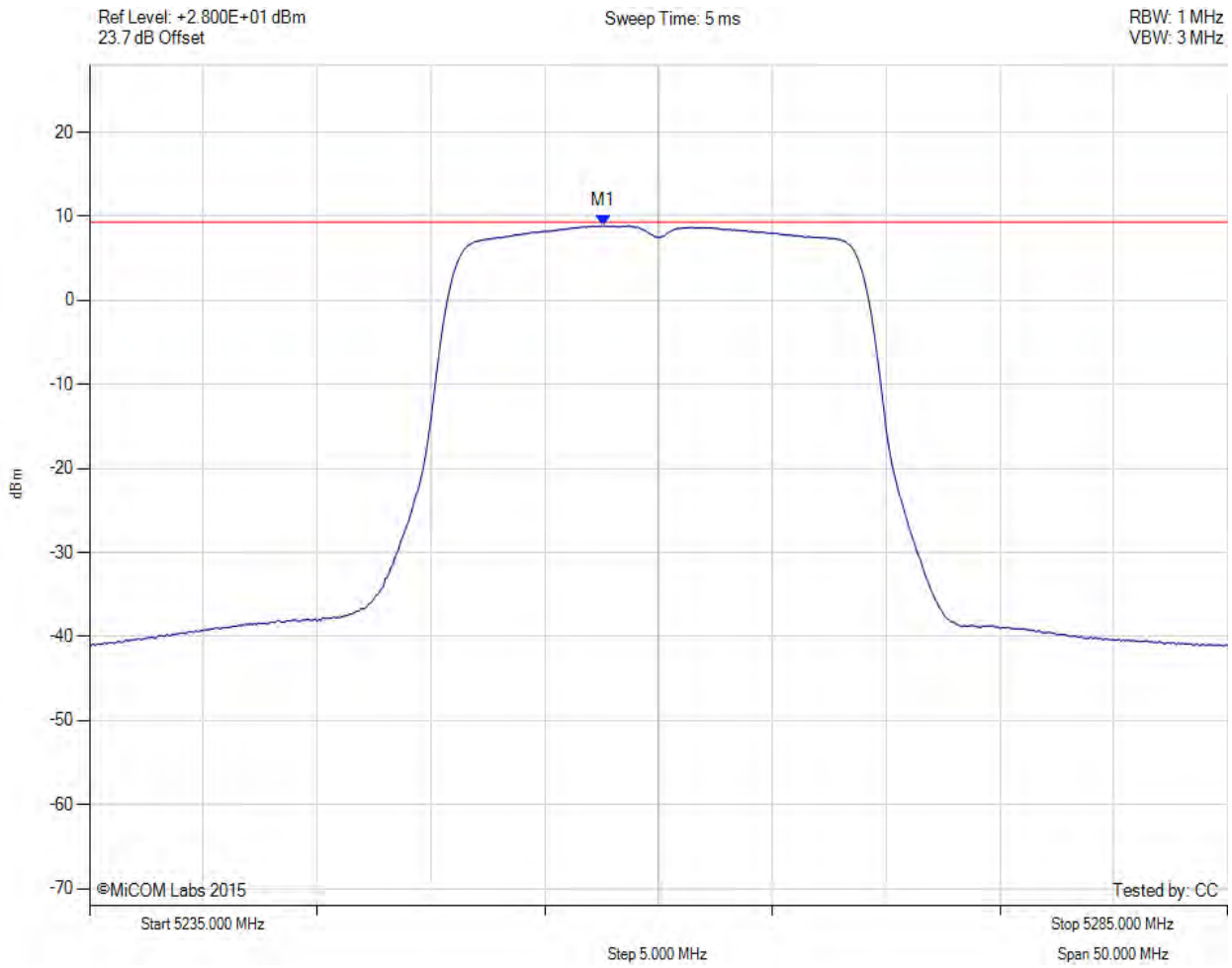


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.420 MHz : 2.949 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

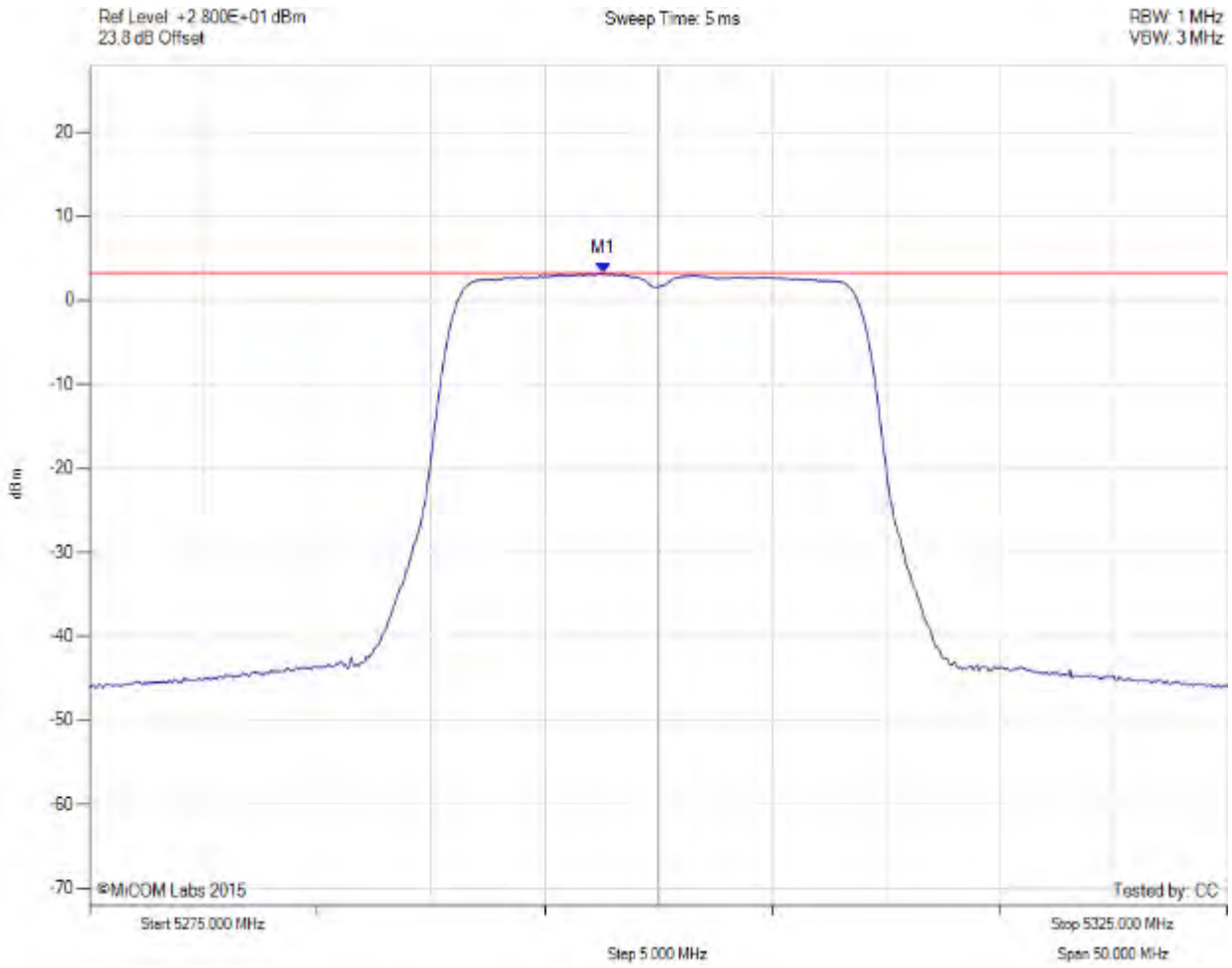


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5257.600 MHz : 8.871 dBm M1 + DCCF : 5257.600 MHz : 8.959 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.4 dB

back to matrix

POWER SPECTRAL DENSITY

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

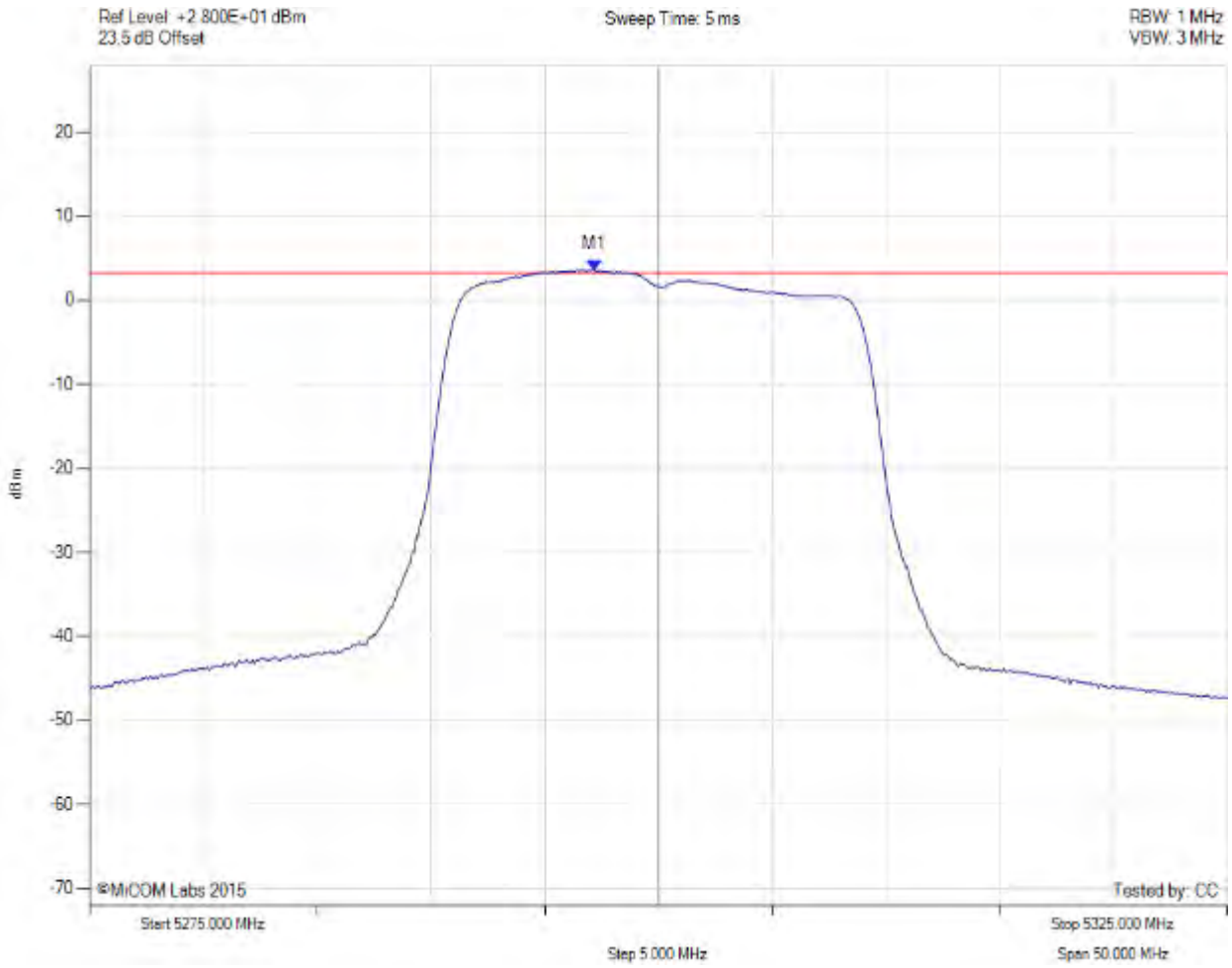


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.580 MHz : 3.159 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

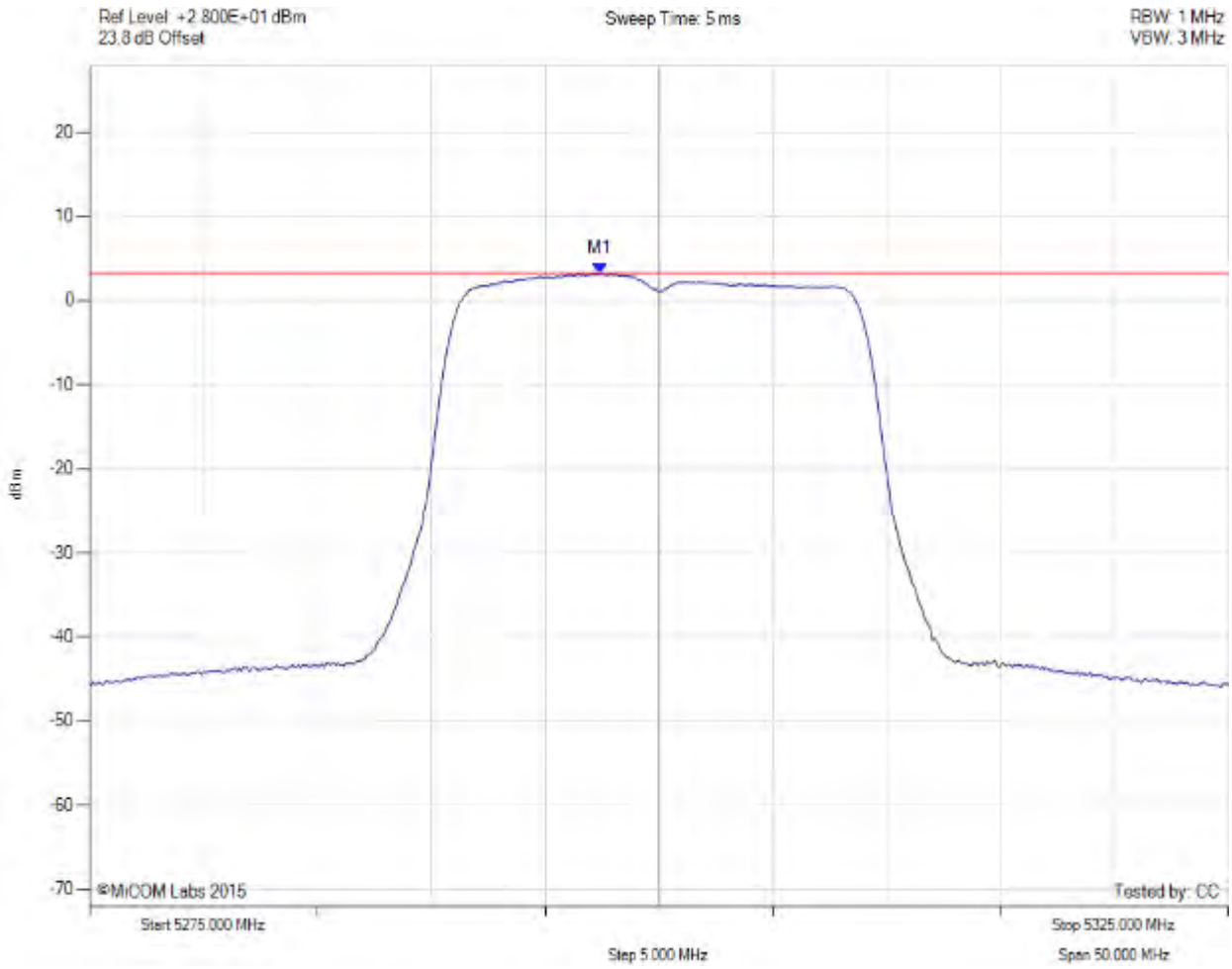


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.170 MHz : 3.629 dBm	Channel Frequency: 5300.00 MHz

back to matrix

POWER SPECTRAL DENSITY

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

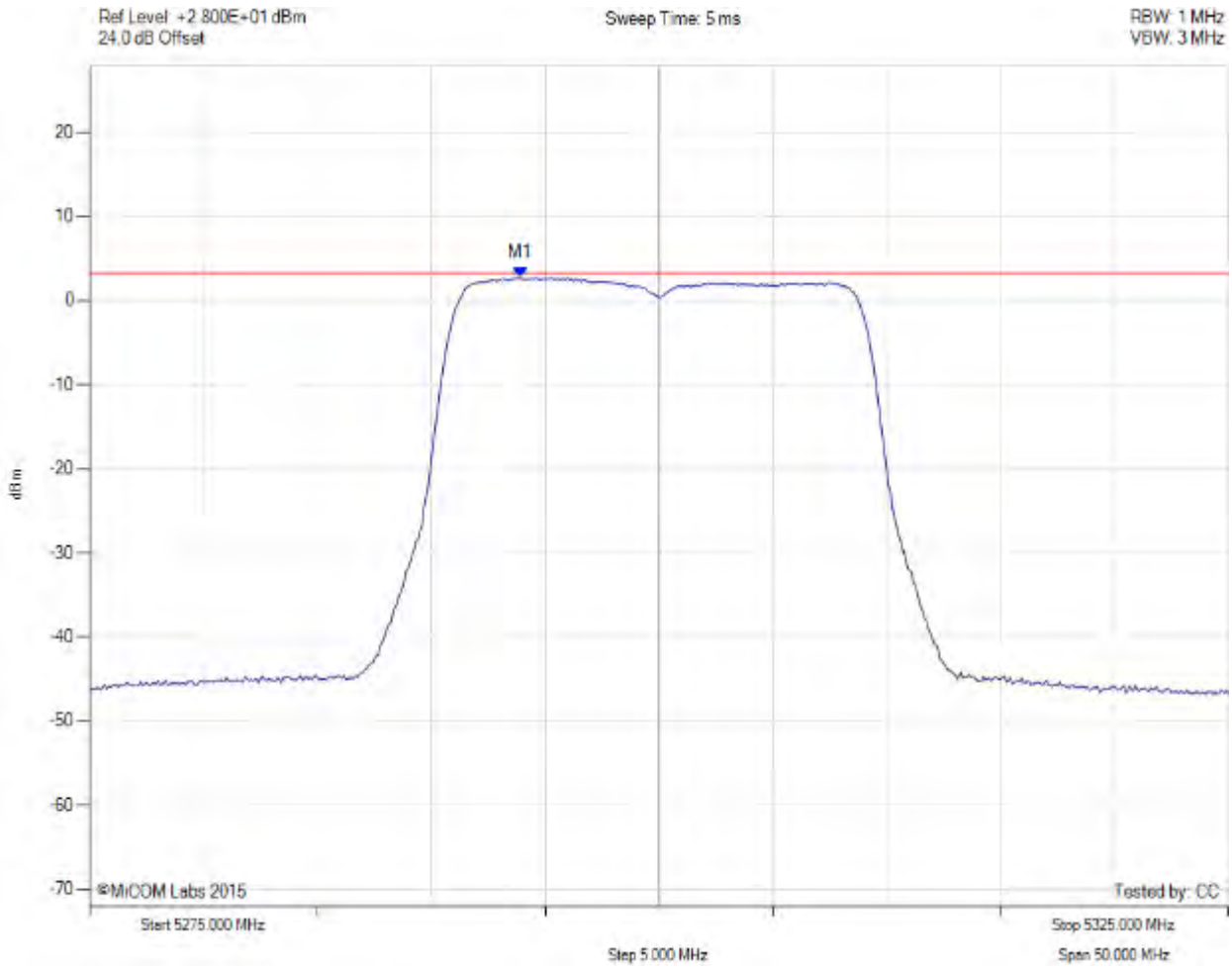


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5297.420 MHz : 3.171 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

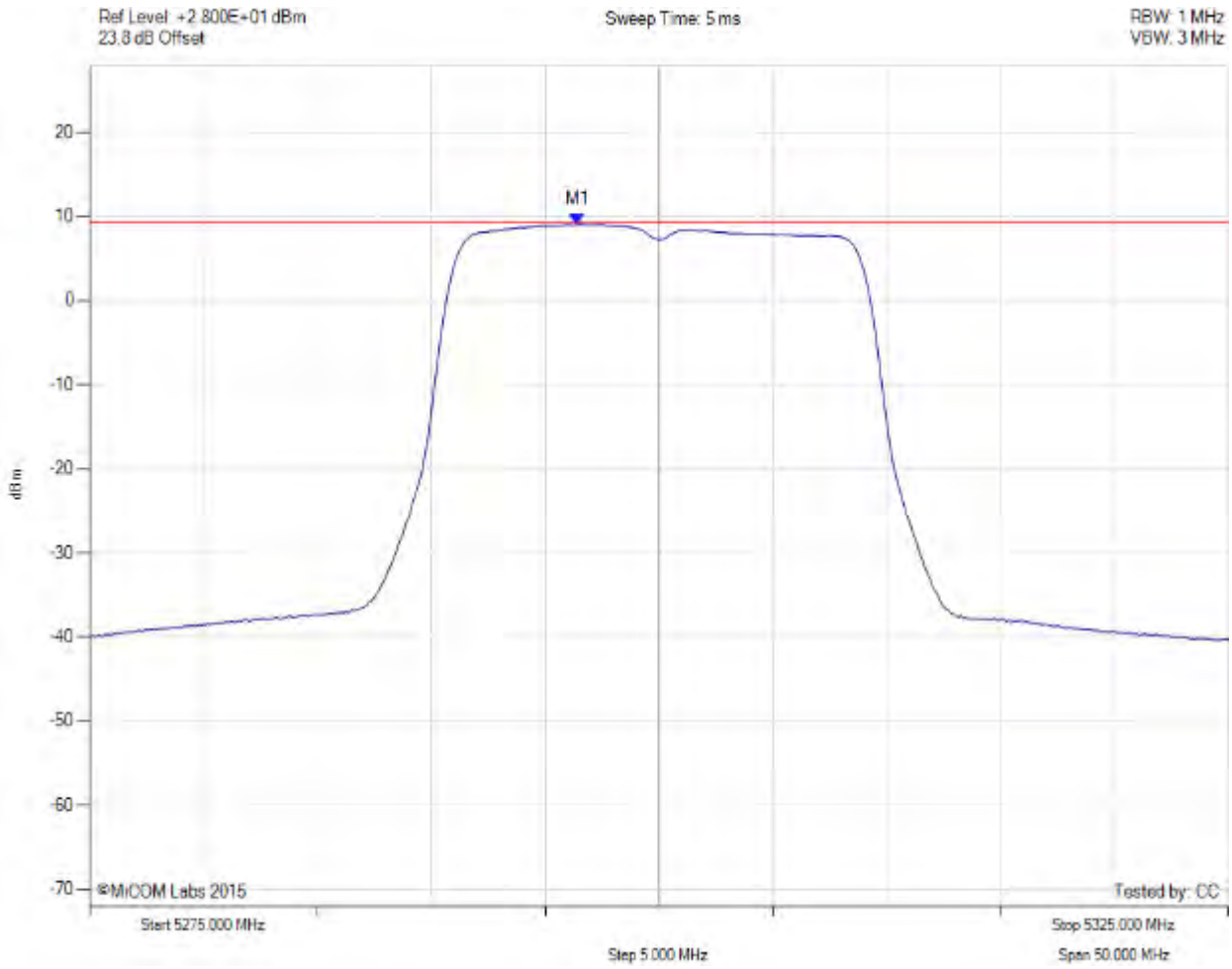


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5293.920 MHz : 2.718 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

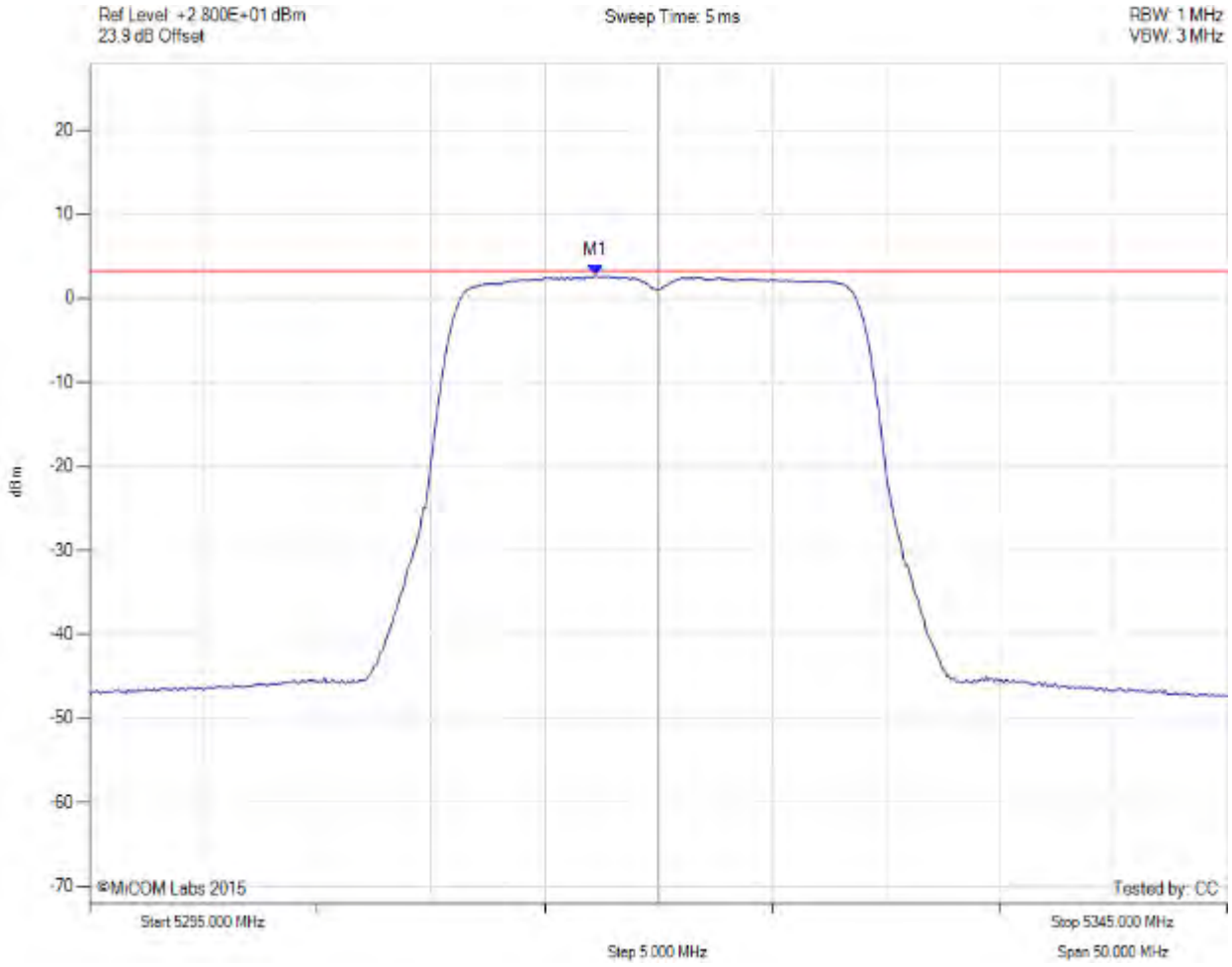


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5296.400 MHz : 9.098 dBm M1 + DCCF : 5296.400 MHz : 9.186 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.1 dB

back to matrix

POWER SPECTRAL DENSITY

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

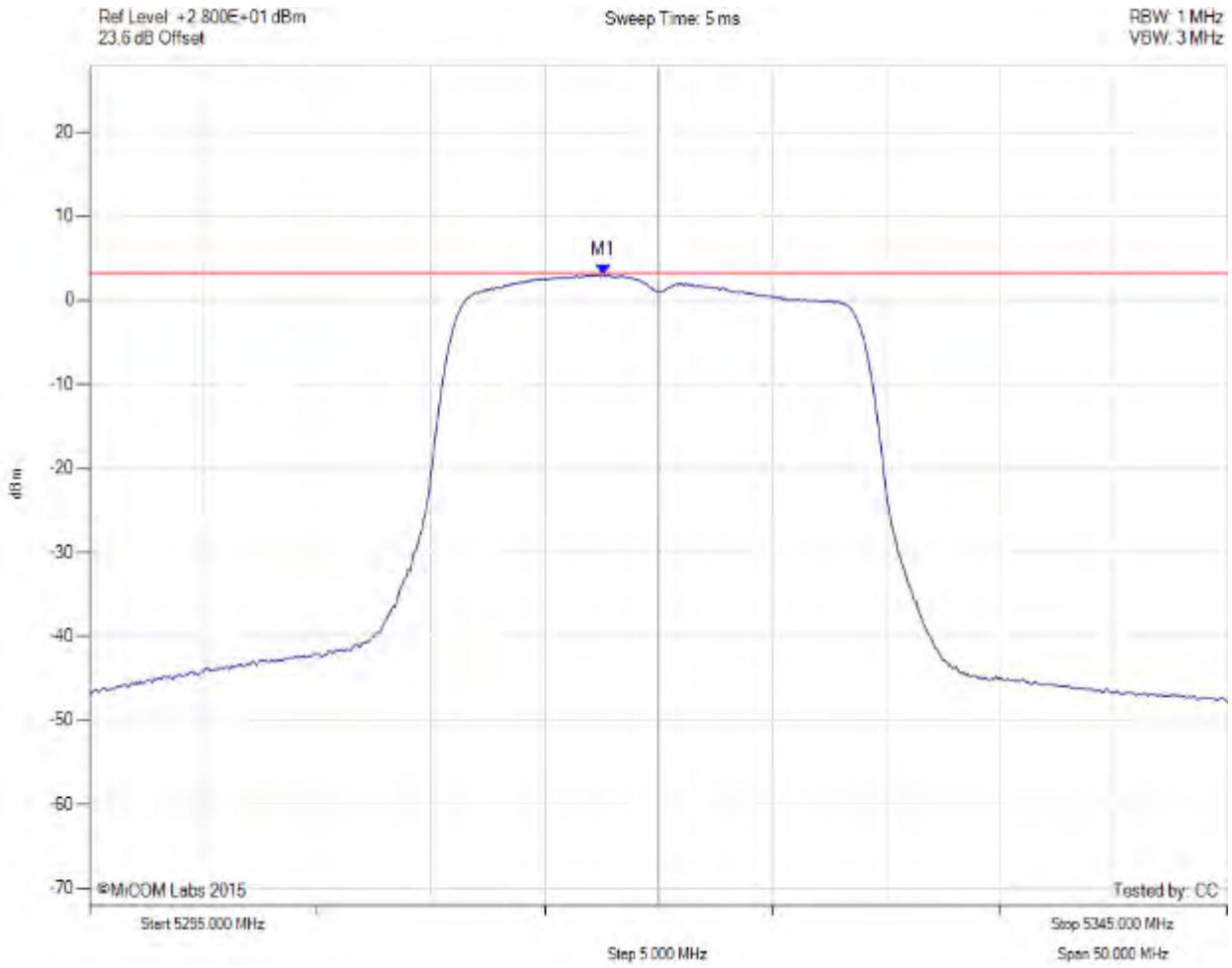


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.250 MHz : 2.676 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

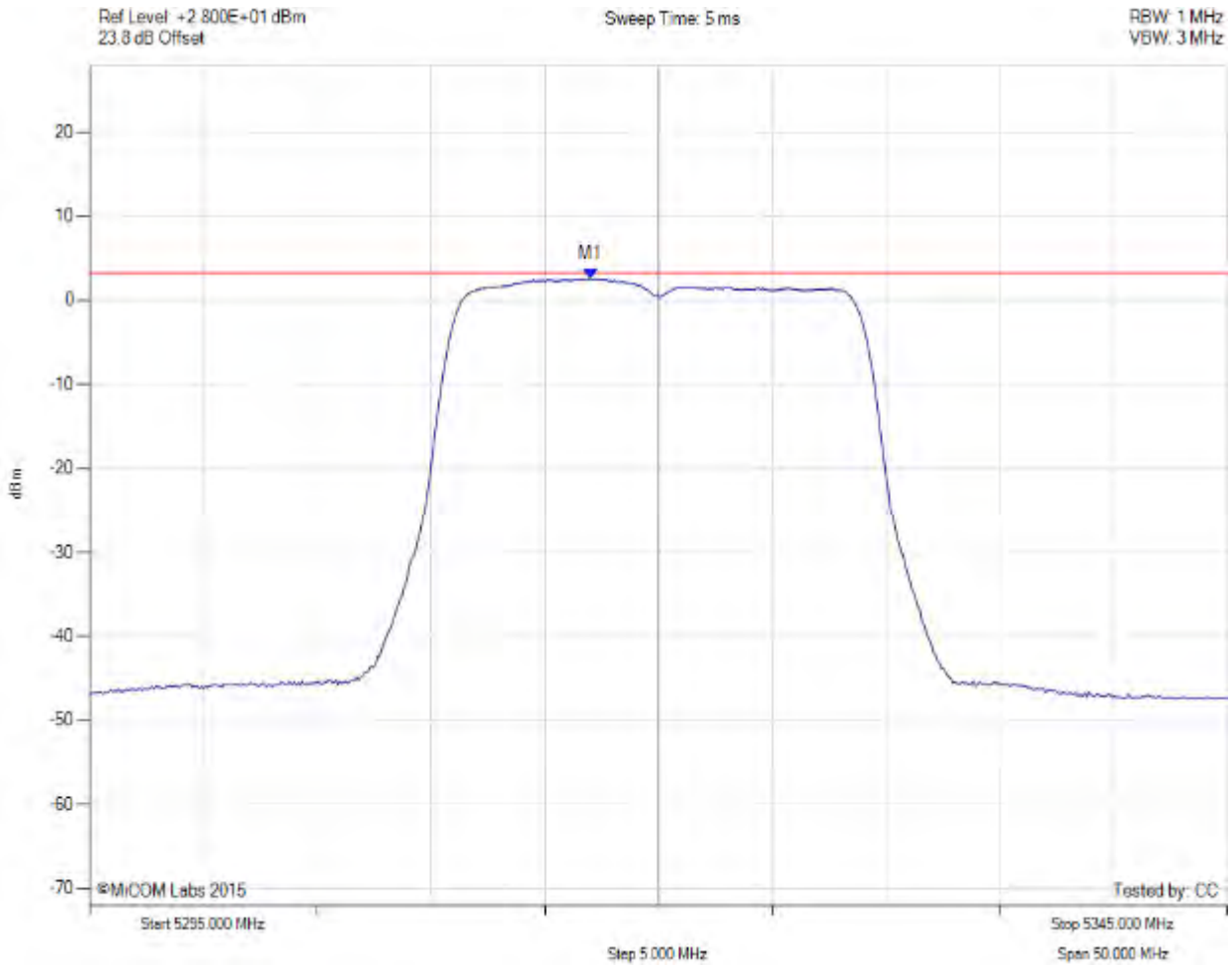


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.580 MHz : 3.061 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

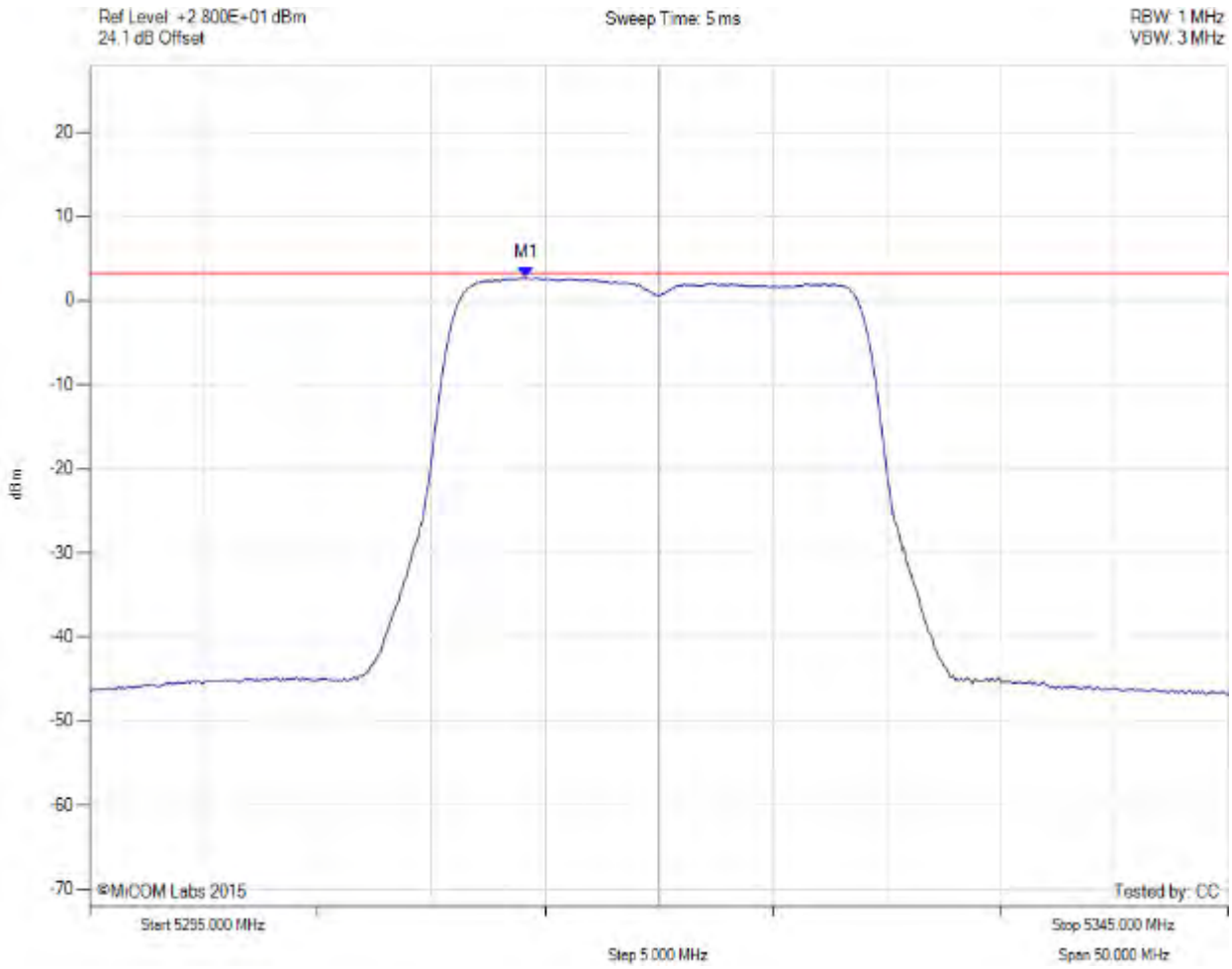


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.000 MHz : 2.569 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

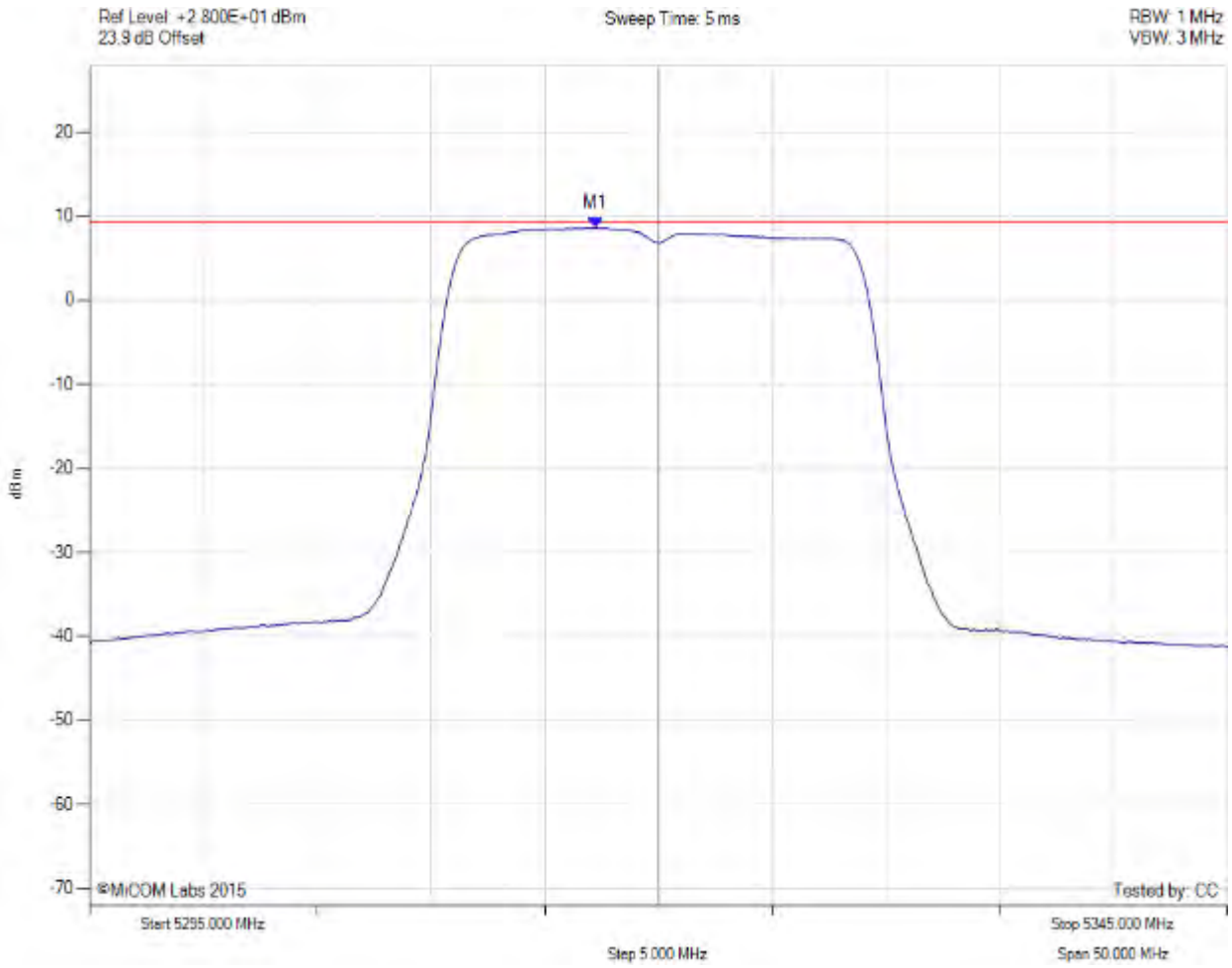


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5314.170 MHz : 2.714 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

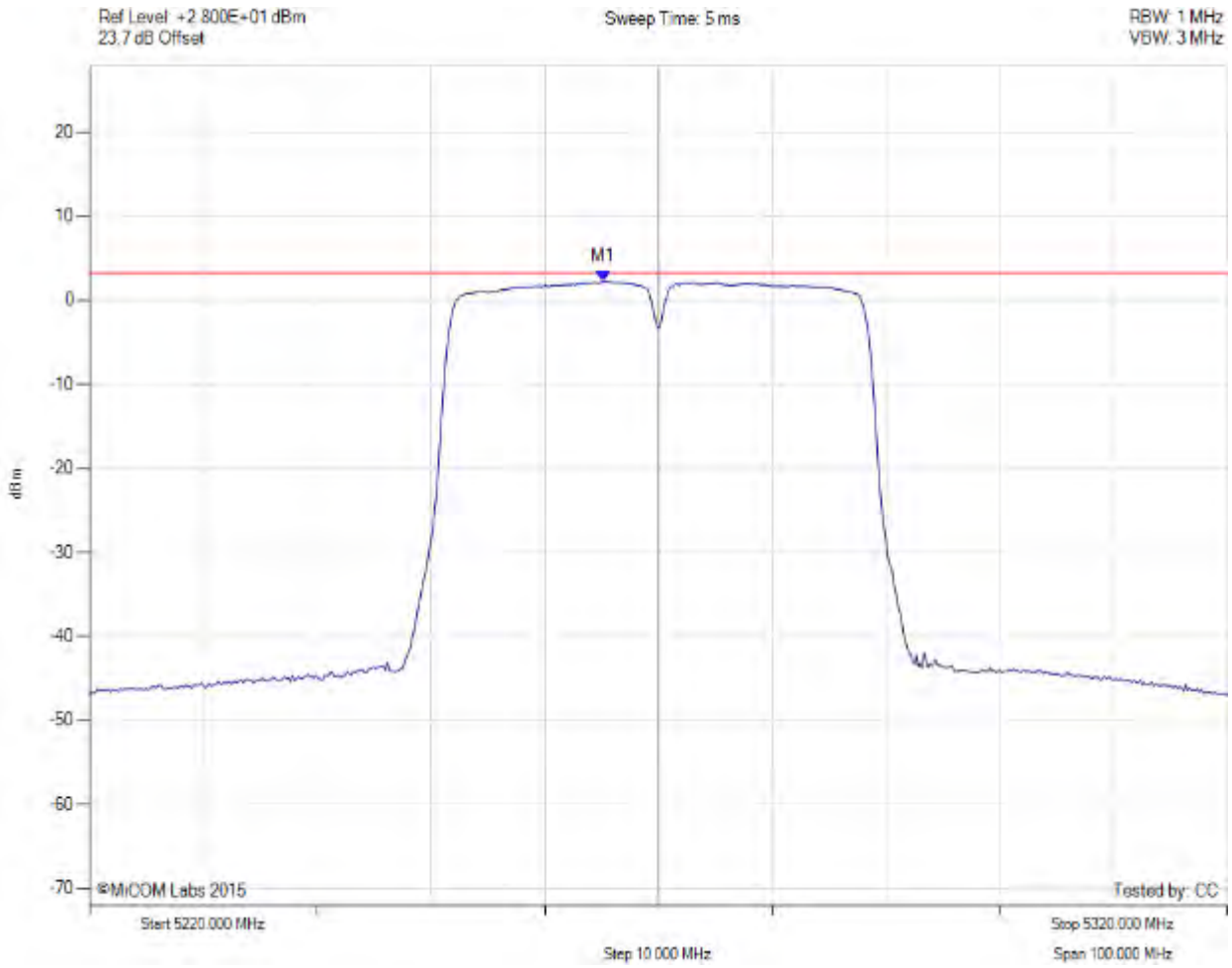


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5317.300 MHz : 8.654 dBm M1 + DCCF : 5317.300 MHz : 8.742 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.6 dB

back to matrix

POWER SPECTRAL DENSITY

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

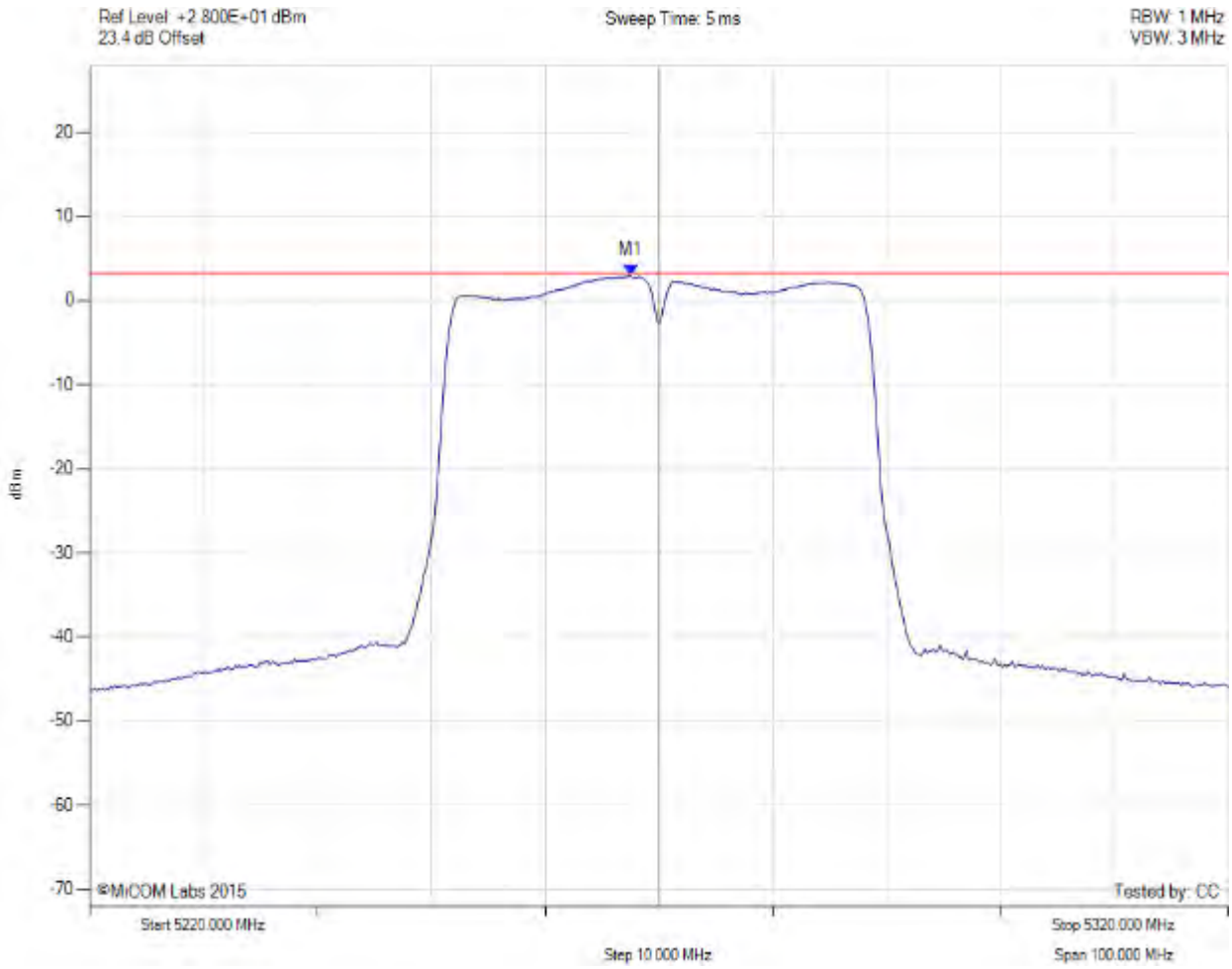


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5265.170 MHz : 2.291 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5267.500 MHz : 3.012 dBm	Limit: ≤ 3.280 dBm

back to matrix

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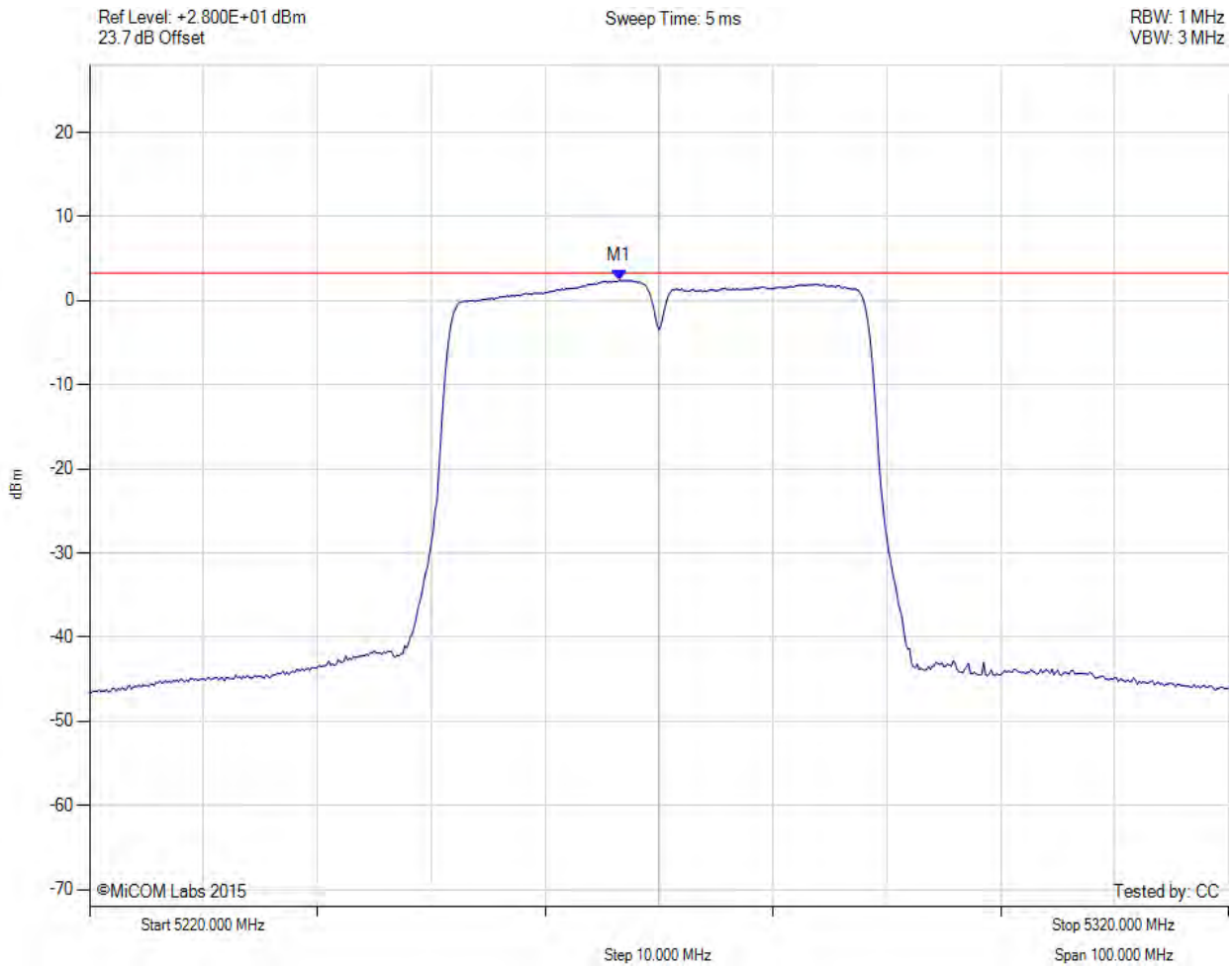
POWER SPECTRAL DENSITY

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

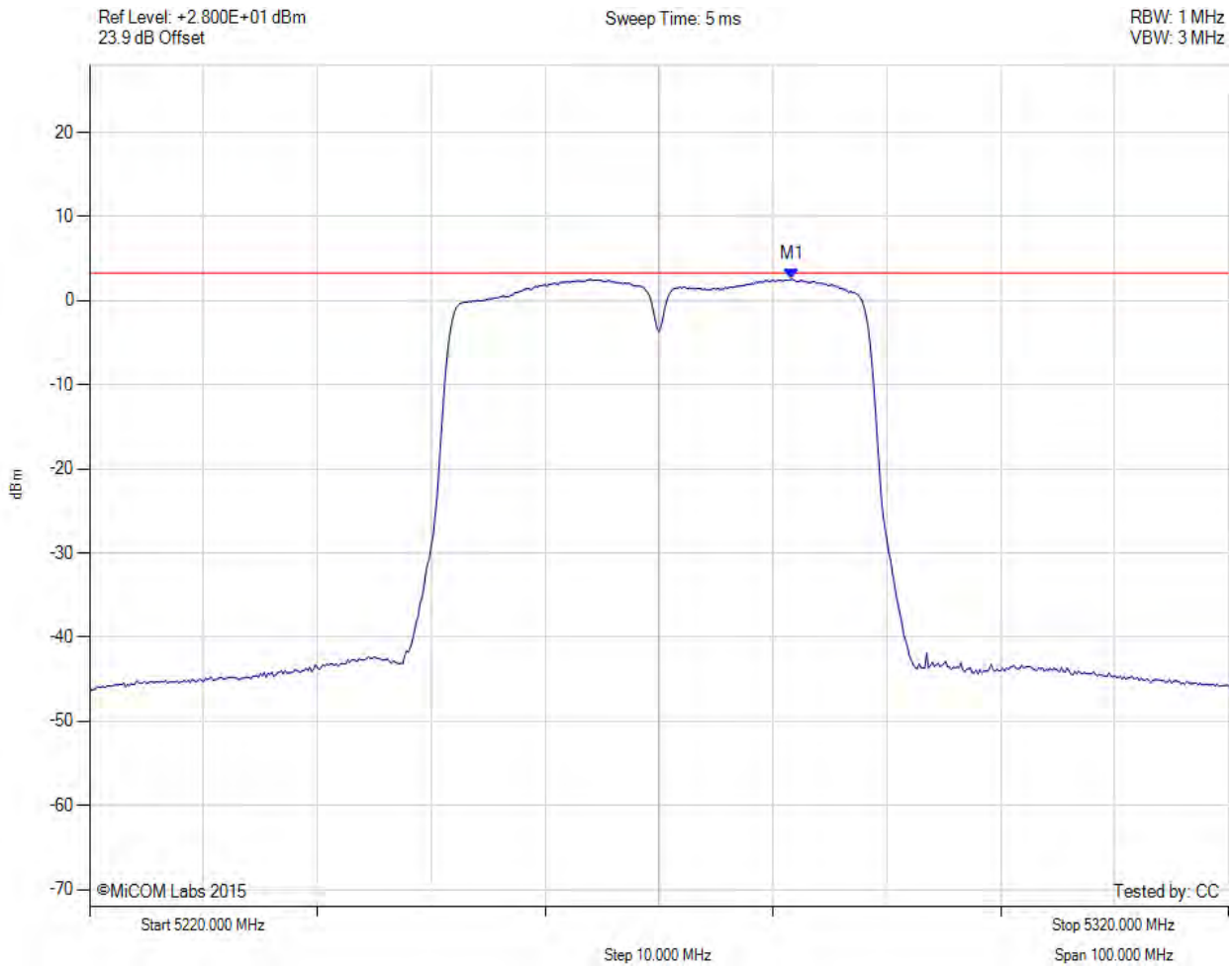


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5266.500 MHz : 2.417 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

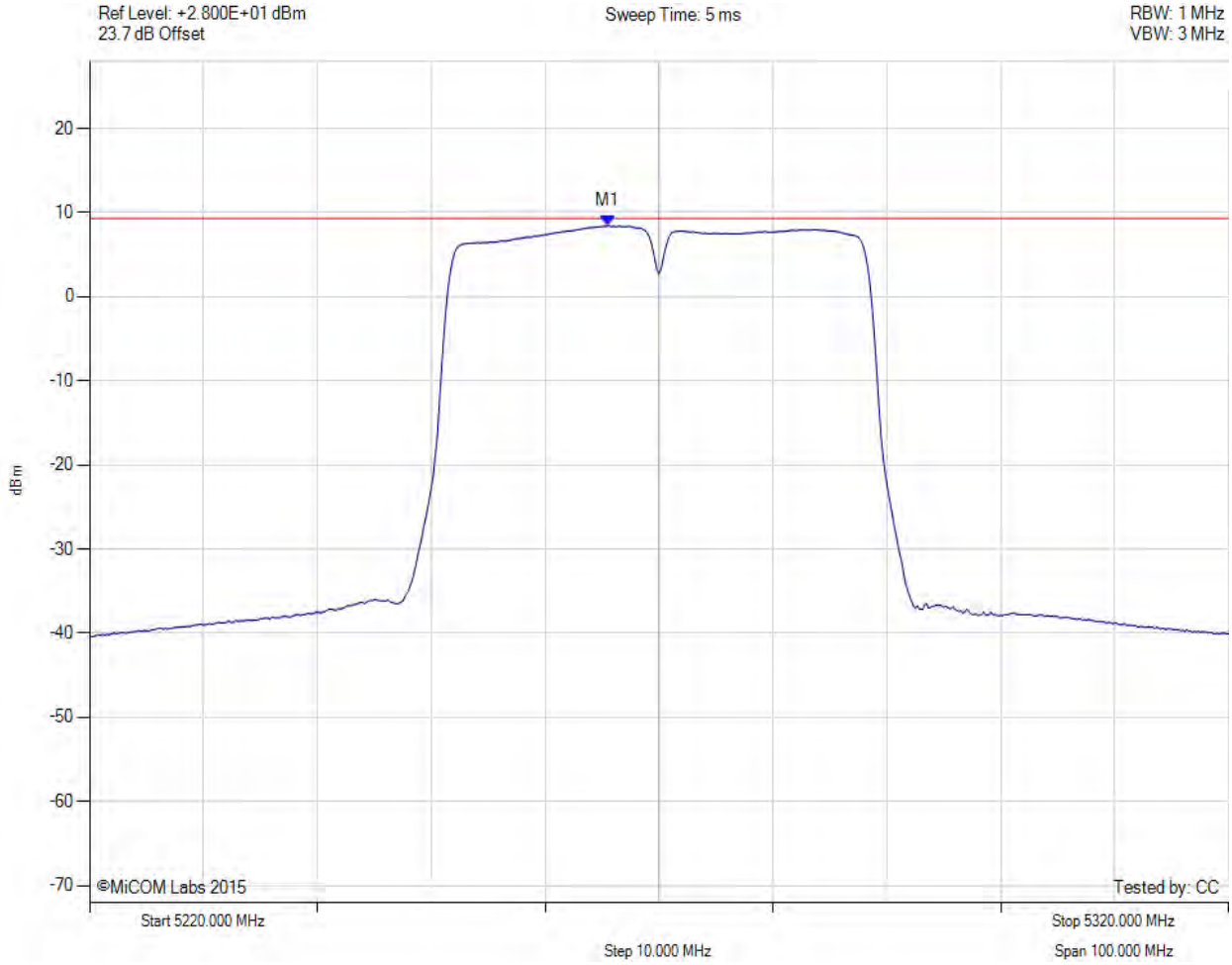


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5281.670 MHz : 2.553 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

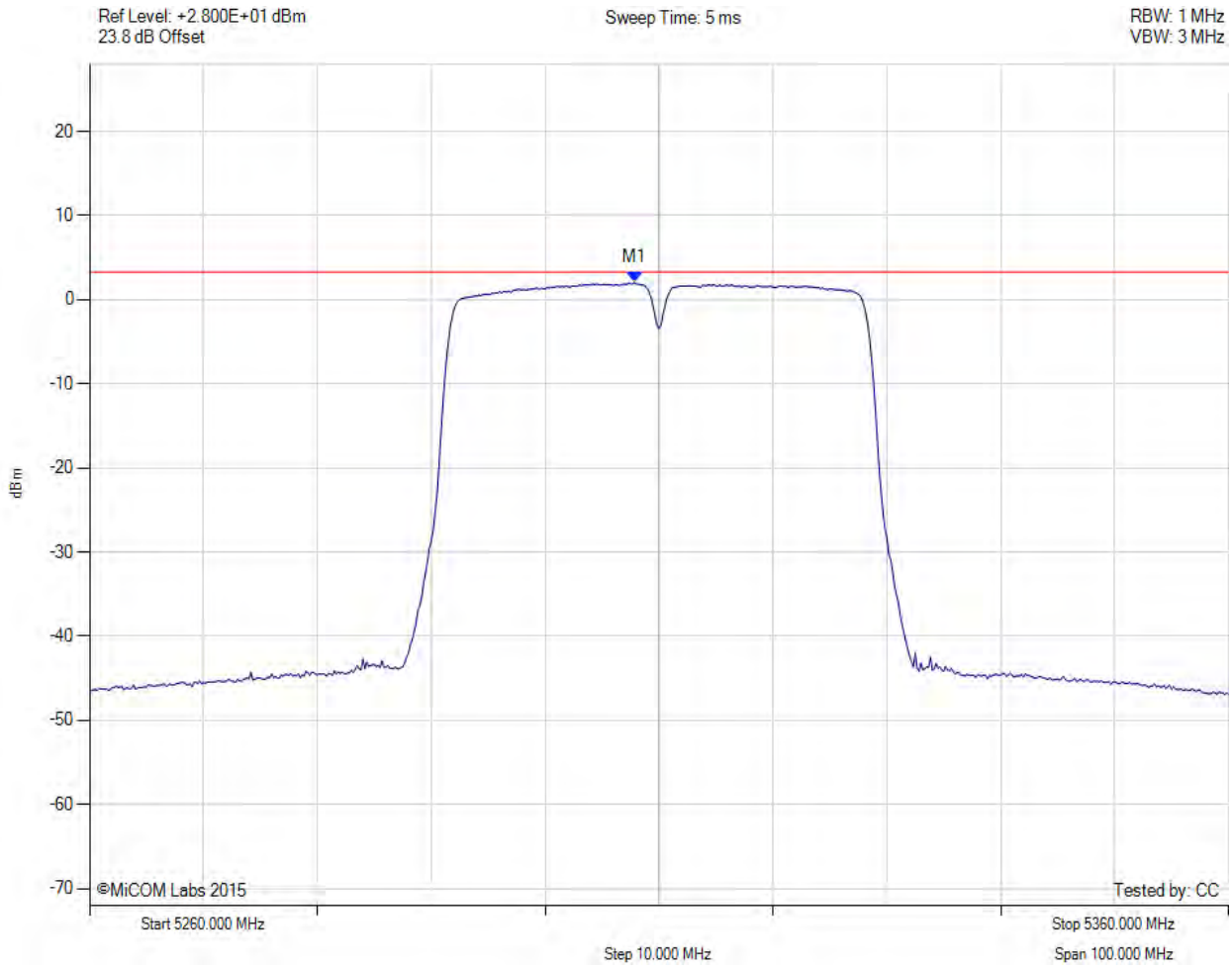


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5265.500 MHz : 8.435 dBm M1 + DCCF : 5265.500 MHz : 8.612 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.7 dB

back to matrix

POWER SPECTRAL DENSITY

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

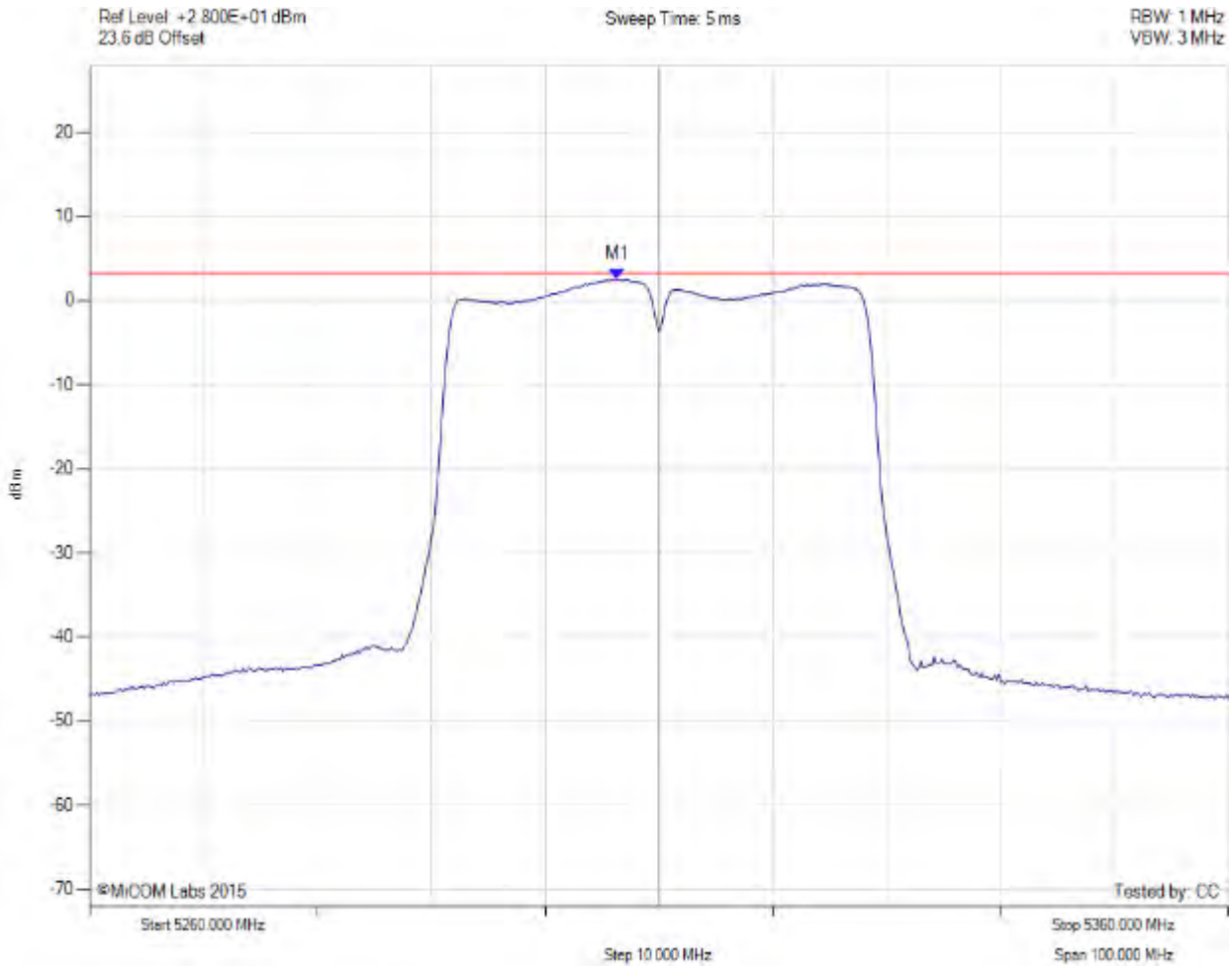


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5307.830 MHz : 2.047 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

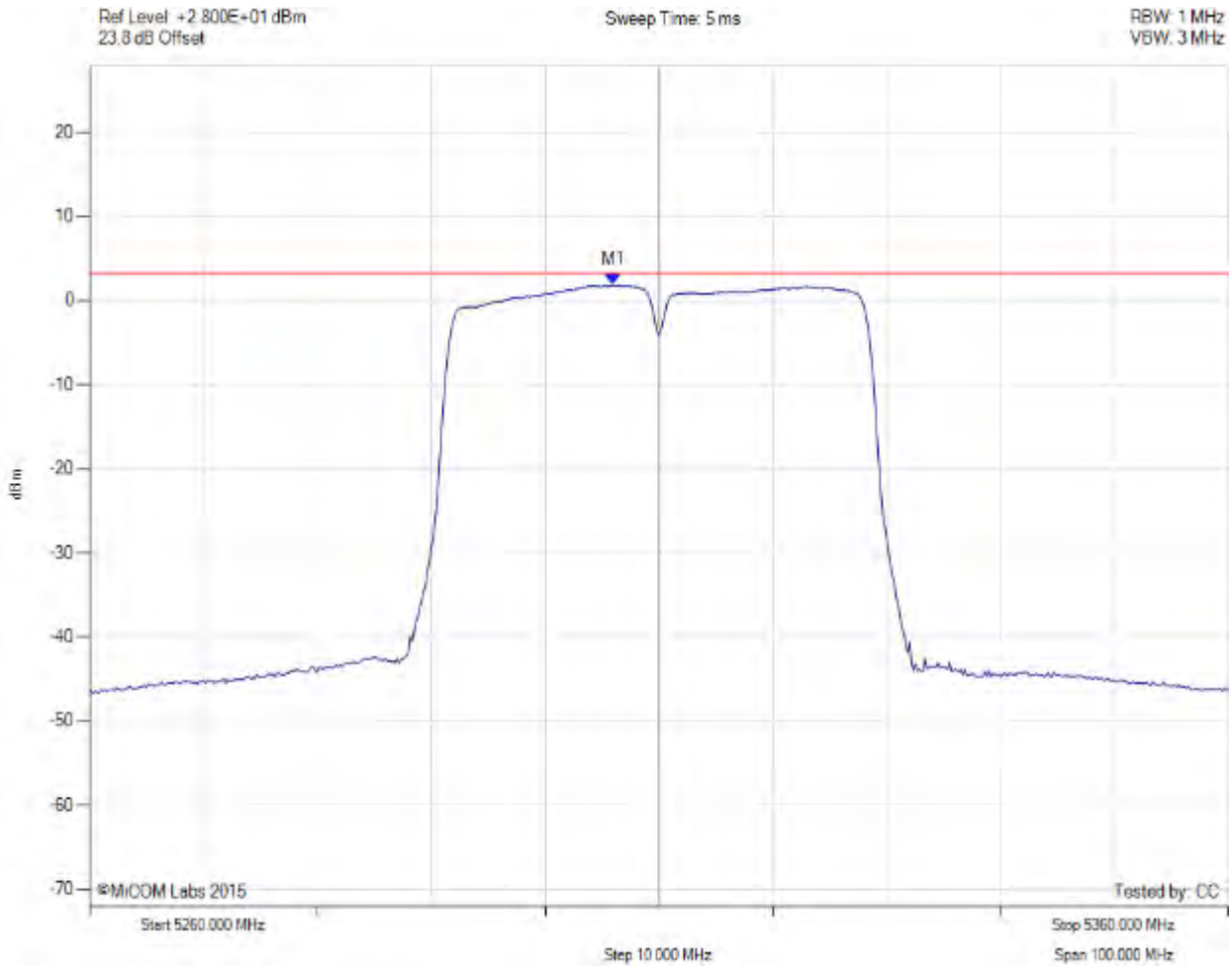


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5306.330 MHz : 2.523 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

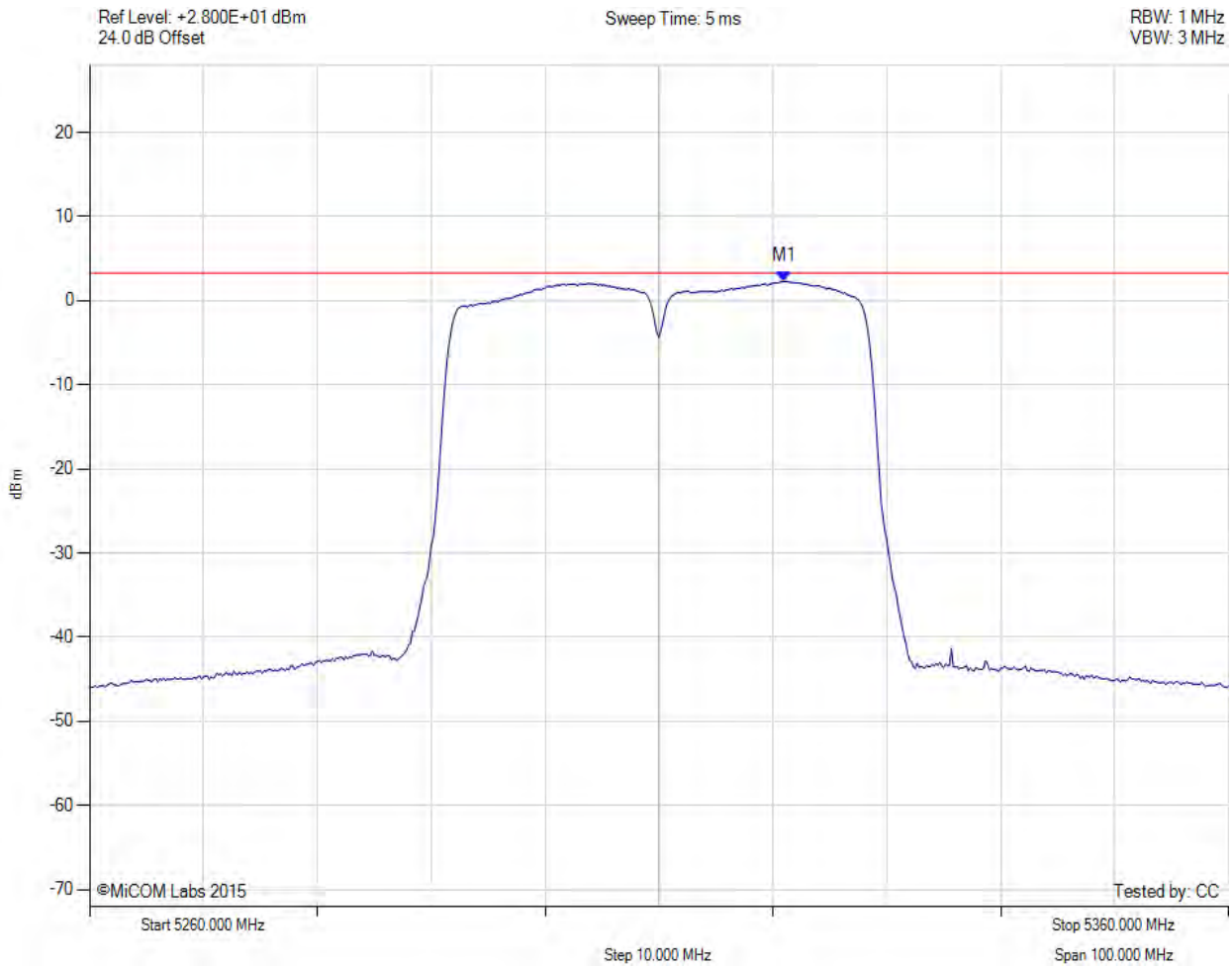


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5306.000 MHz : 1.864 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

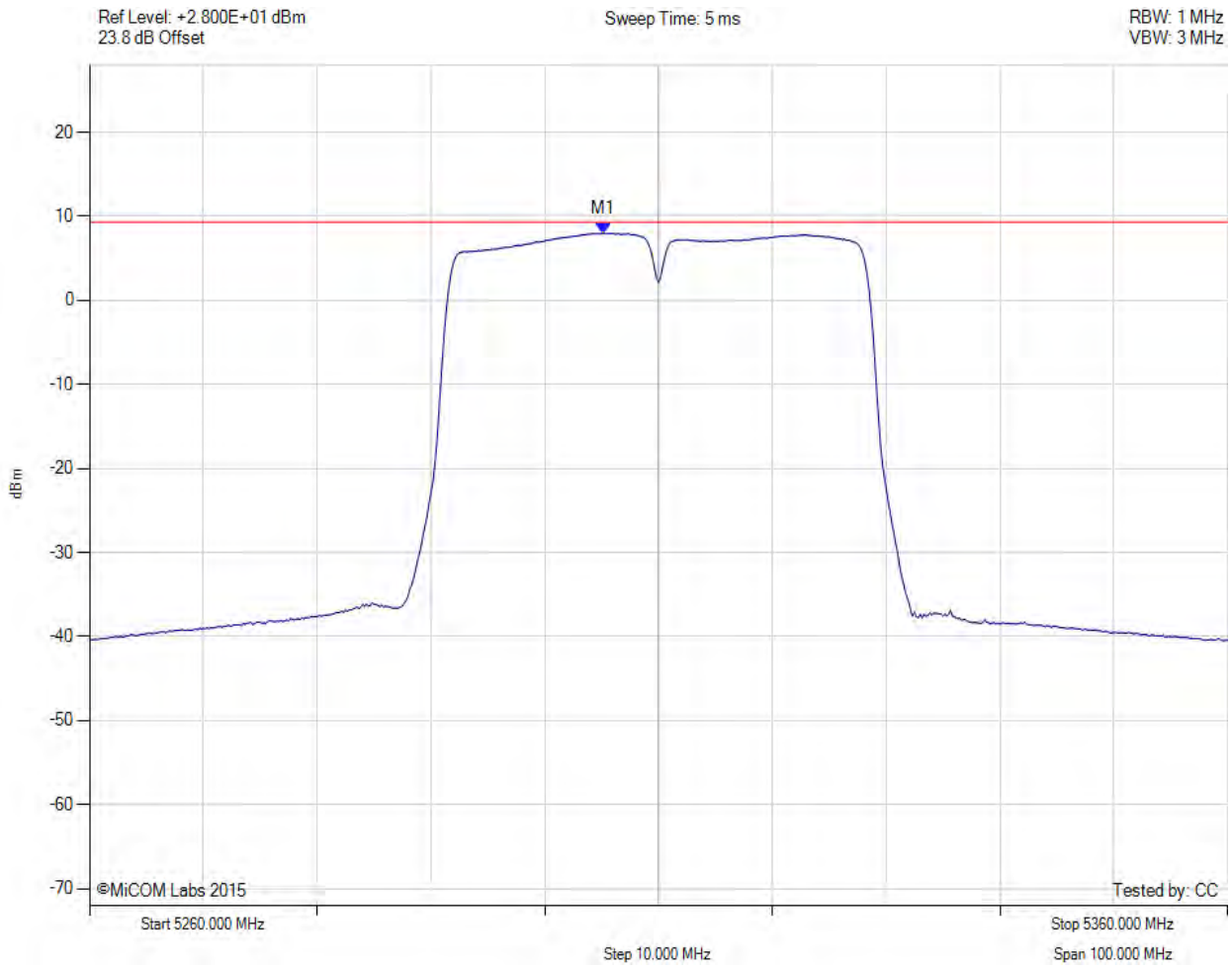


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5321.000 MHz : 2.333 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

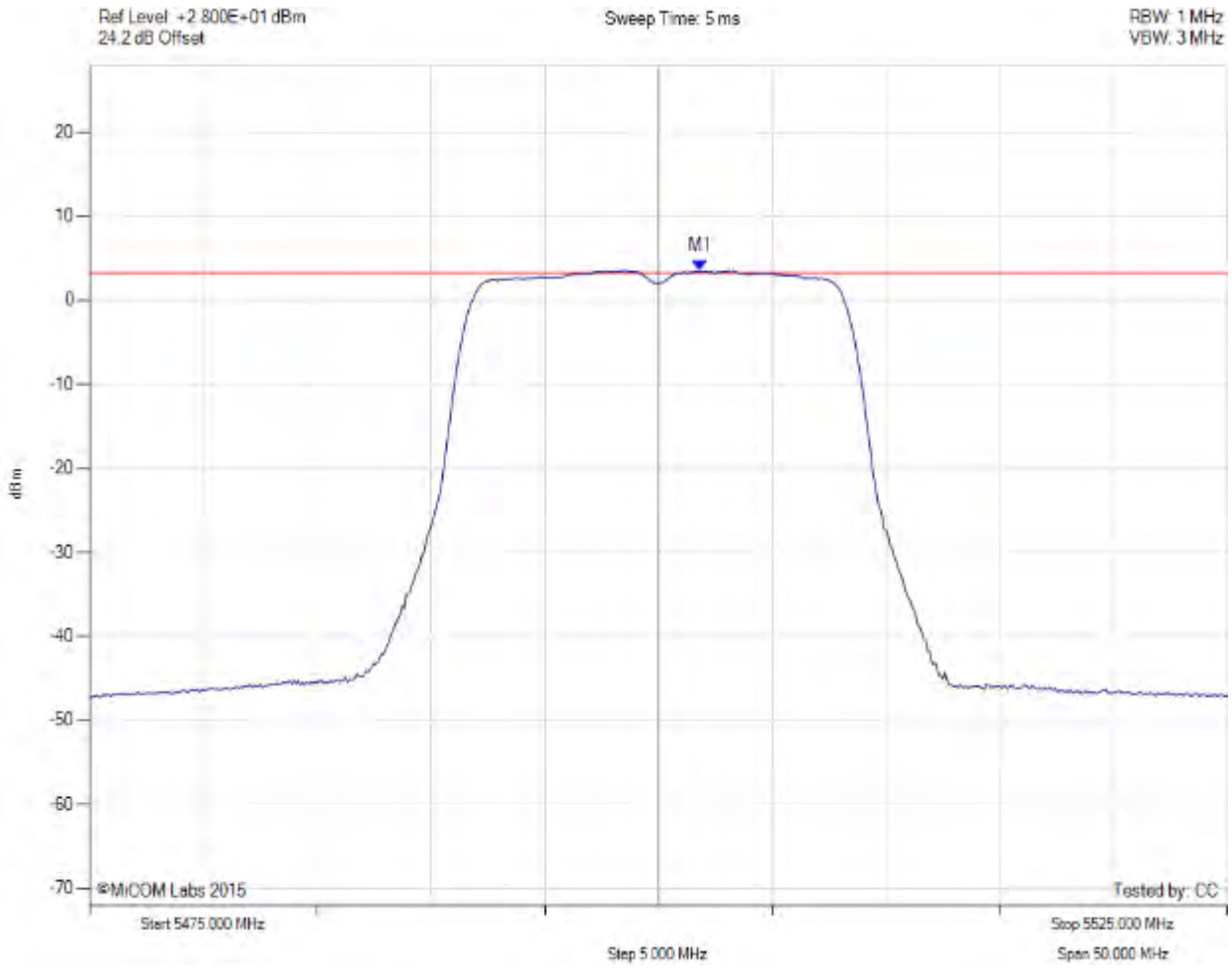


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5305.200 MHz : 8.012 dBm M1 + DCCF : 5305.200 MHz : 8.189 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -1.1 dB

back to matrix

POWER SPECTRAL DENSITY

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

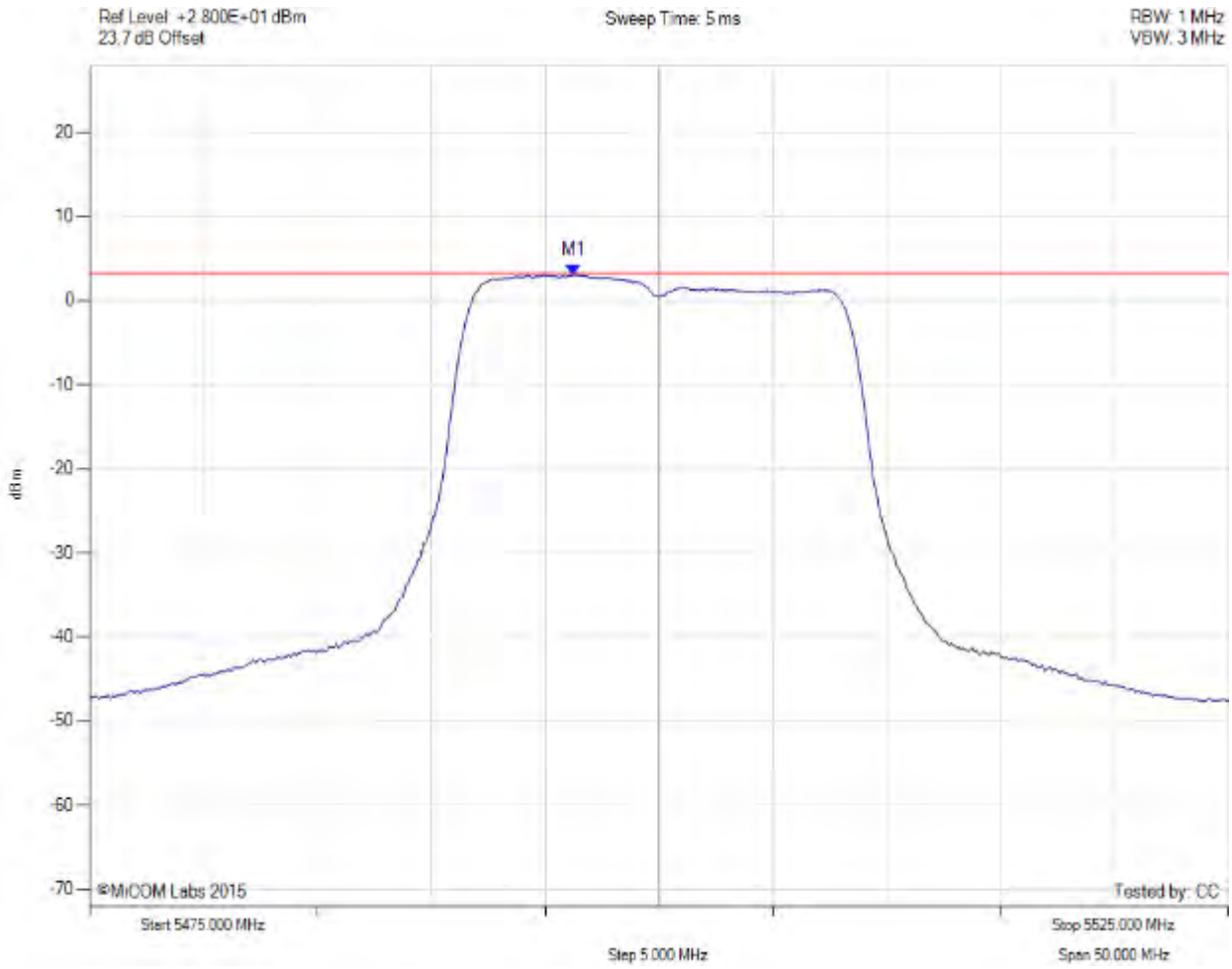


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5501.830 MHz : 3.549 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5496.250 MHz : 3.073 dBm	Limit: ≤ 3.280 dBm

back to matrix

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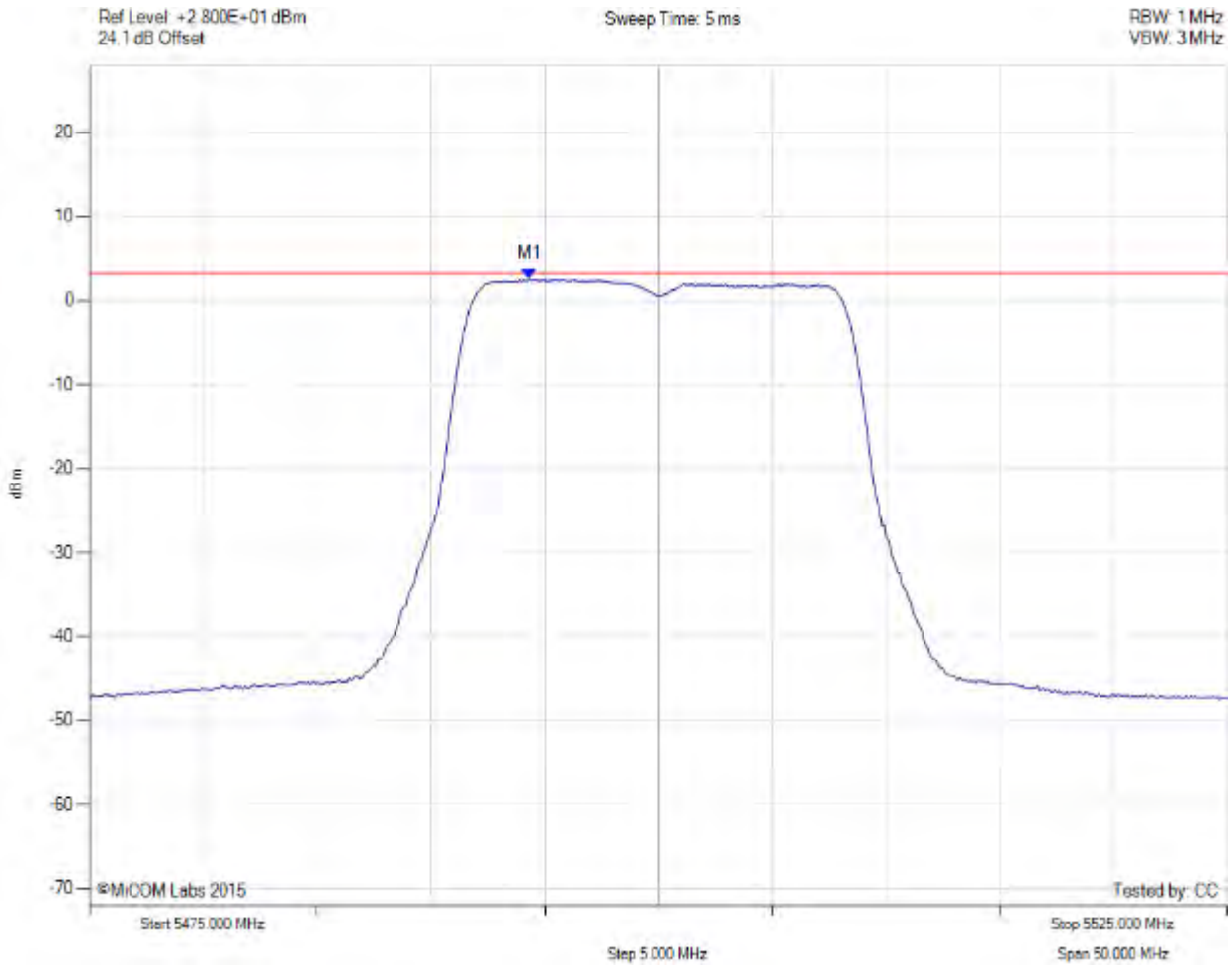
POWER SPECTRAL DENSITY

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

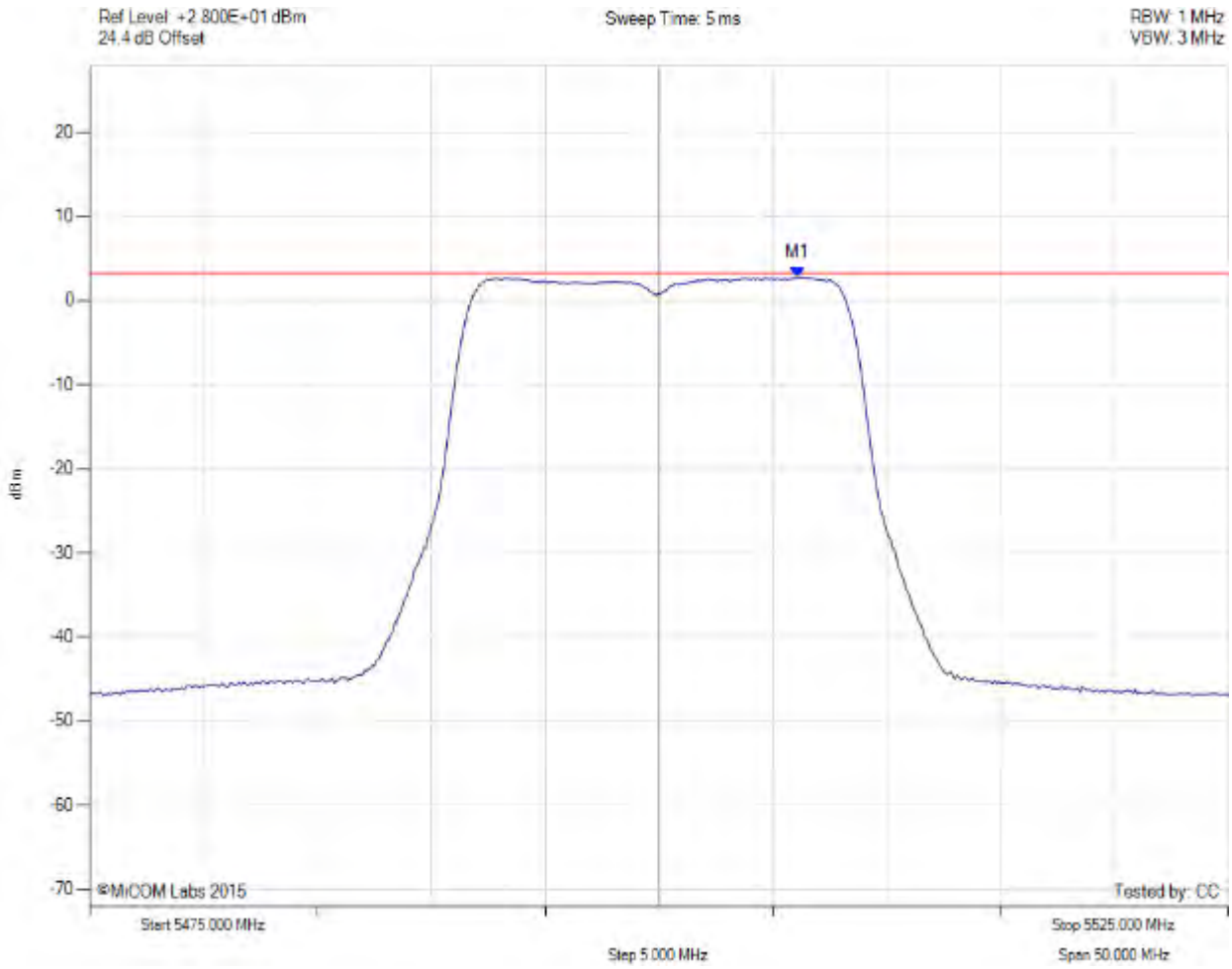


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5494.330 MHz : 2.547 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

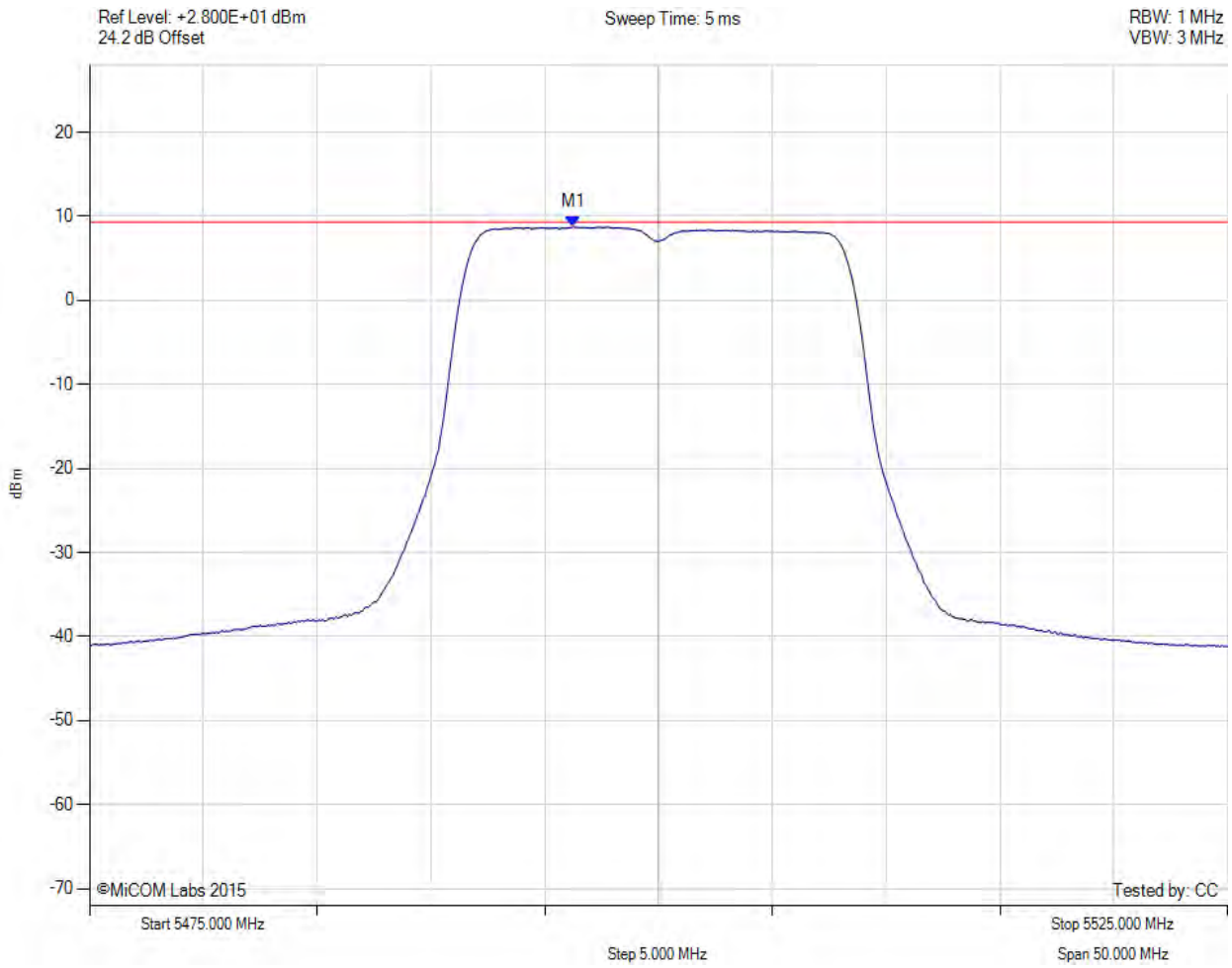


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5506.080 MHz : 2.798 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

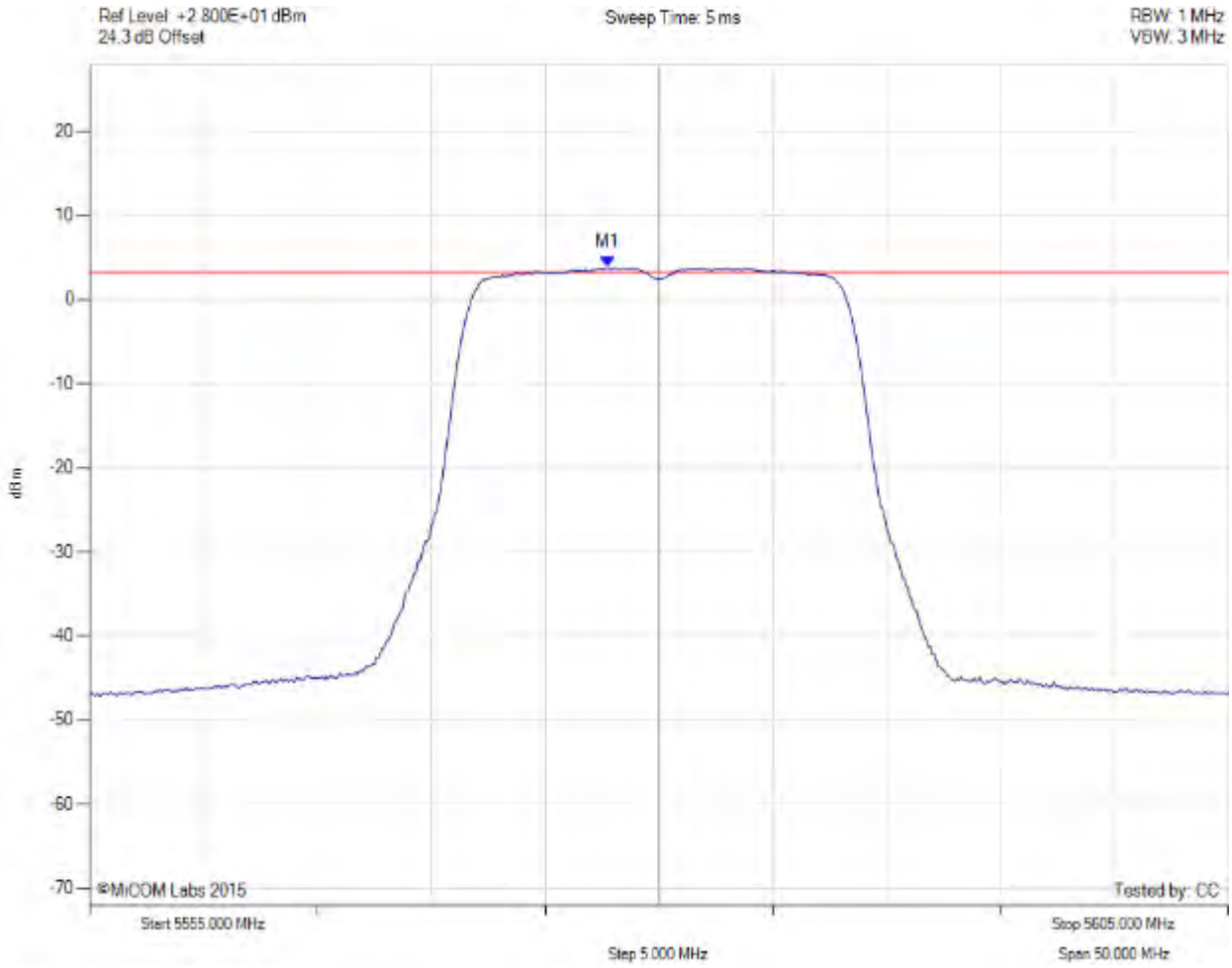


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5496.300 MHz : 8.769 dBm M1 + DCCF : 5496.300 MHz : 8.946 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.4 dB

back to matrix

POWER SPECTRAL DENSITY

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

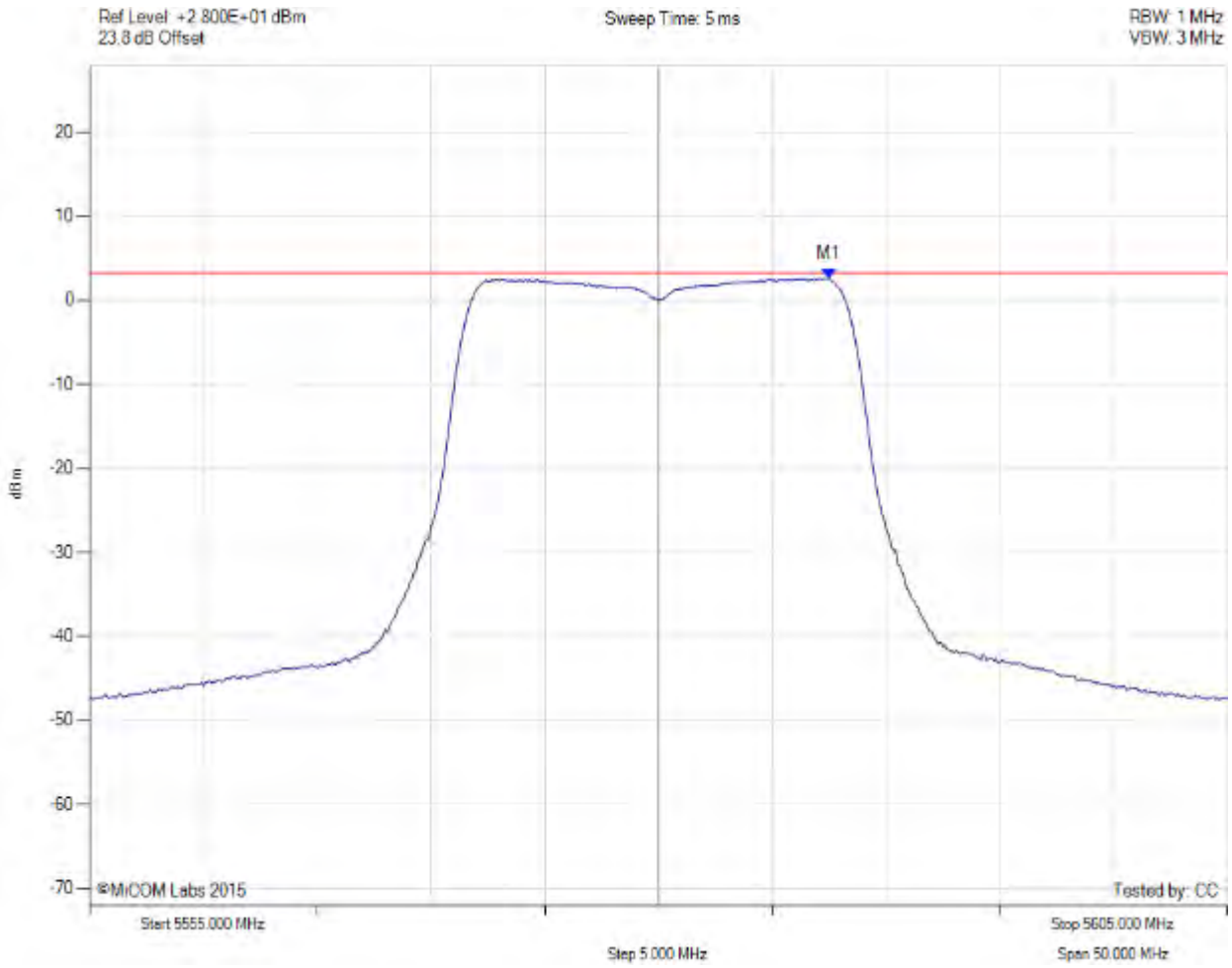


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5577.750 MHz : 3.838 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

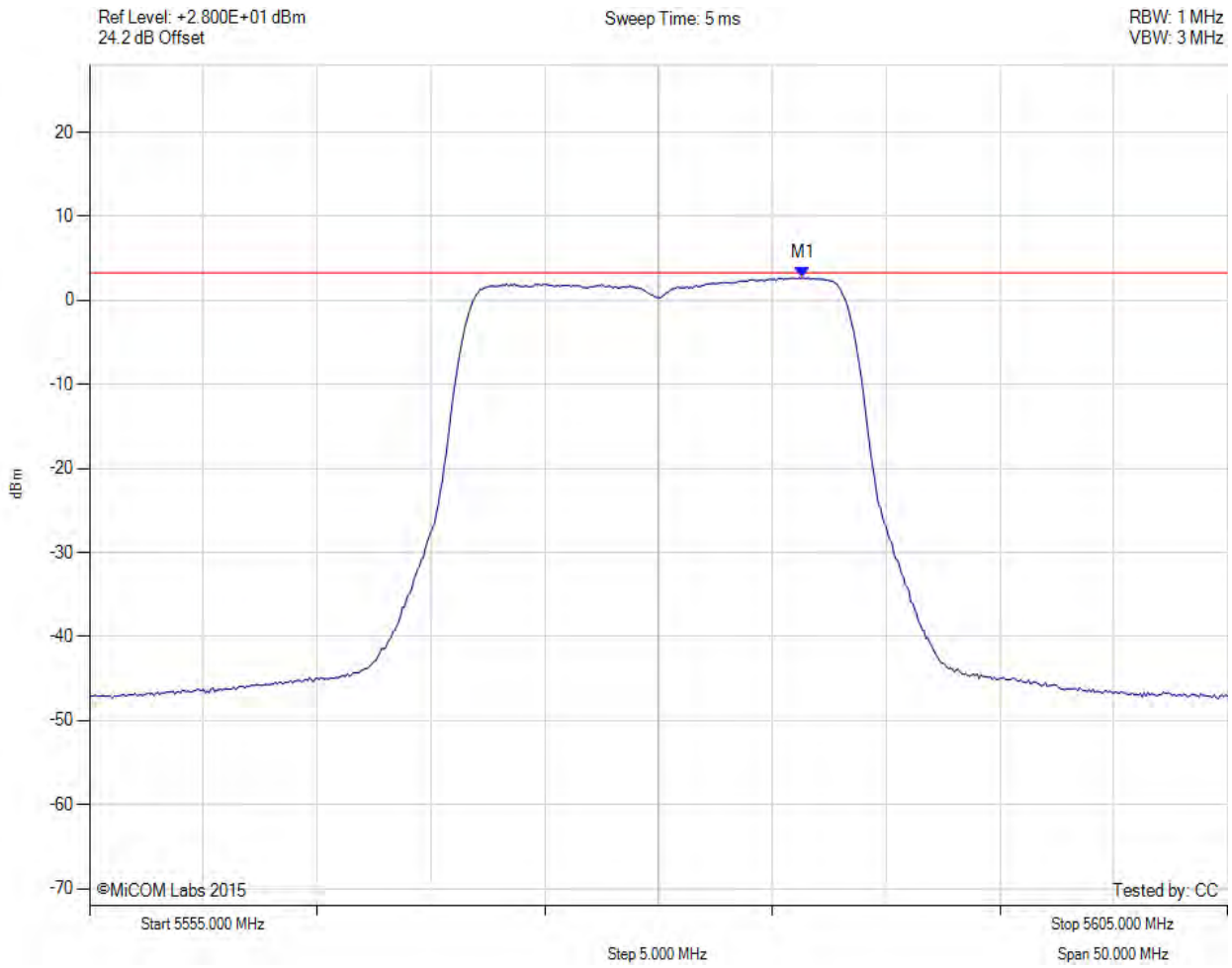


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5587.500 MHz : 2.612 dBm	Channel Frequency: 5580.00 MHz

back to matrix

POWER SPECTRAL DENSITY

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

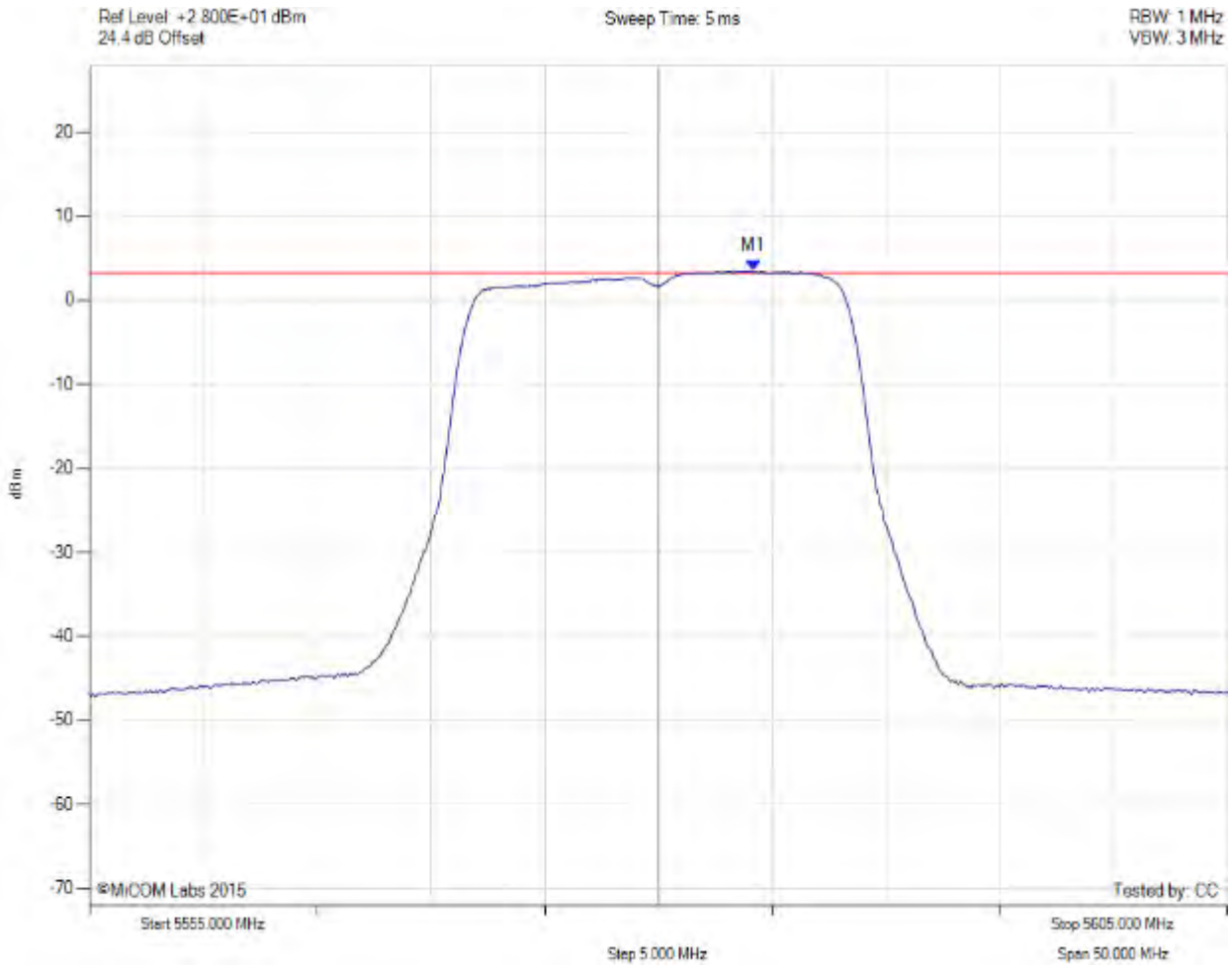


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5586.330 MHz : 2.694 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5584.170 MHz : 3.504 dBm	Limit: ≤ 3.280 dBm

back to matrix

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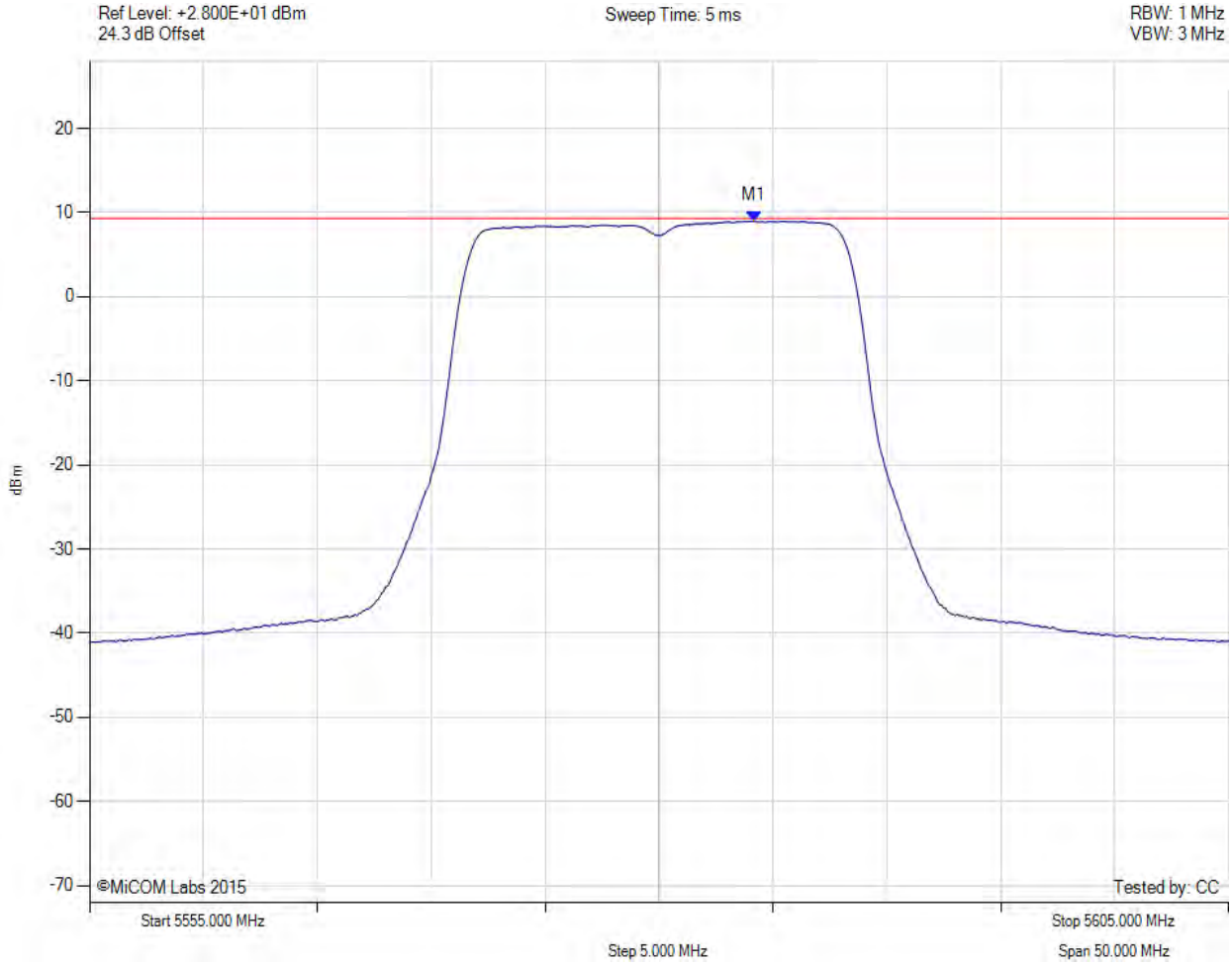
POWER SPECTRAL DENSITY

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

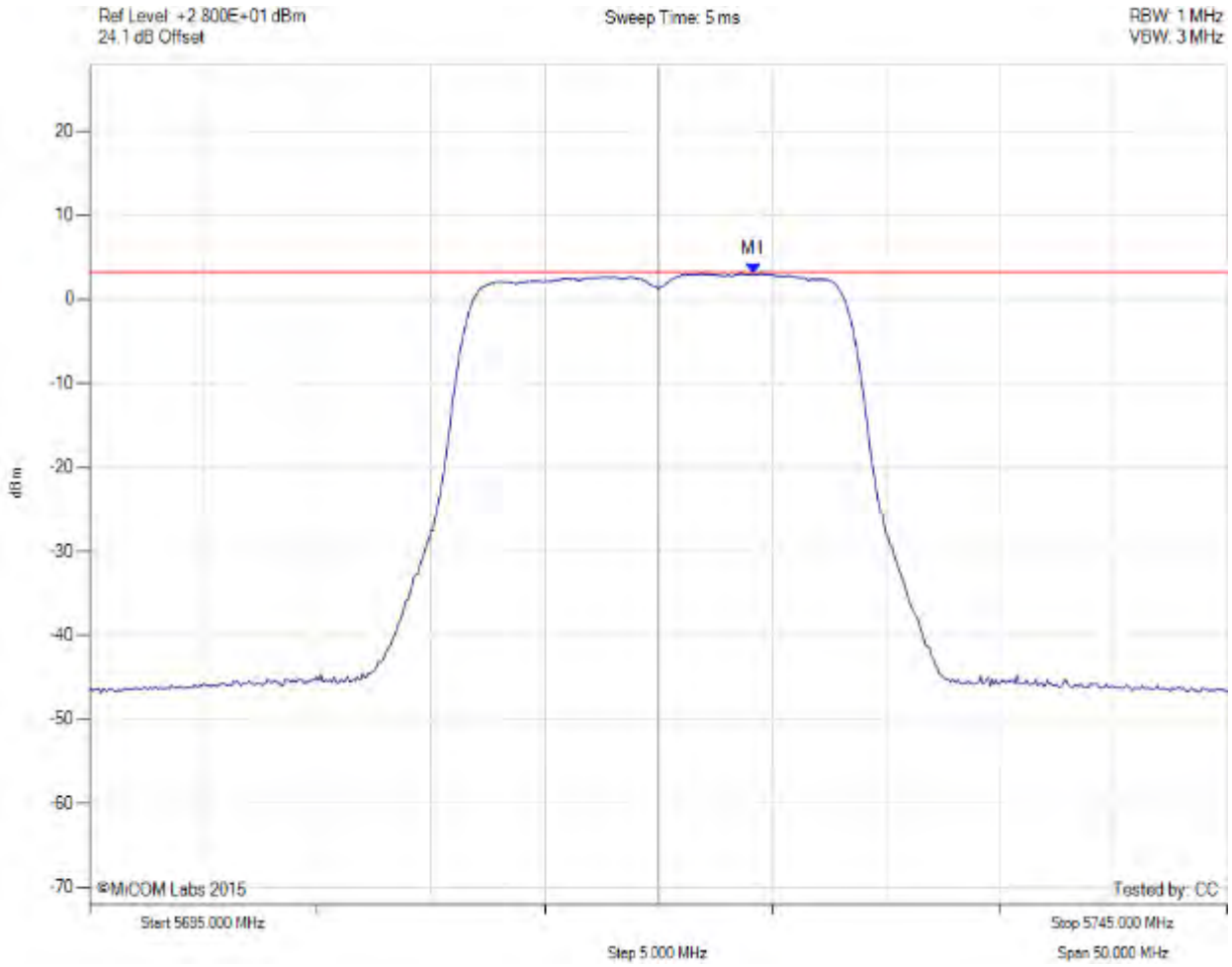


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5584.200 MHz : 9.010 dBm M1 + DCCF : 5584.200 MHz : 9.187 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.1 dB

back to matrix

POWER SPECTRAL DENSITY

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

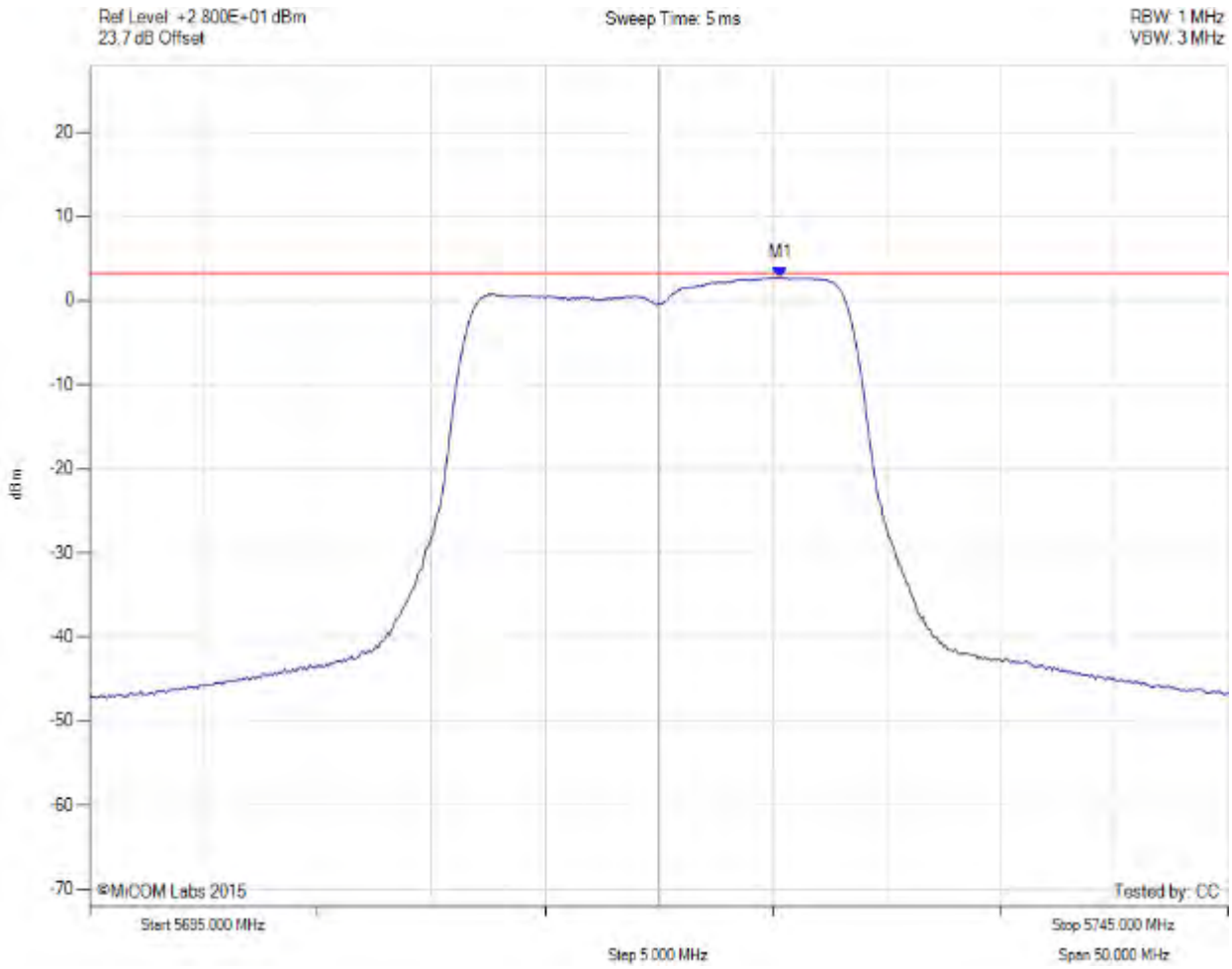


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5724.170 MHz : 3.057 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

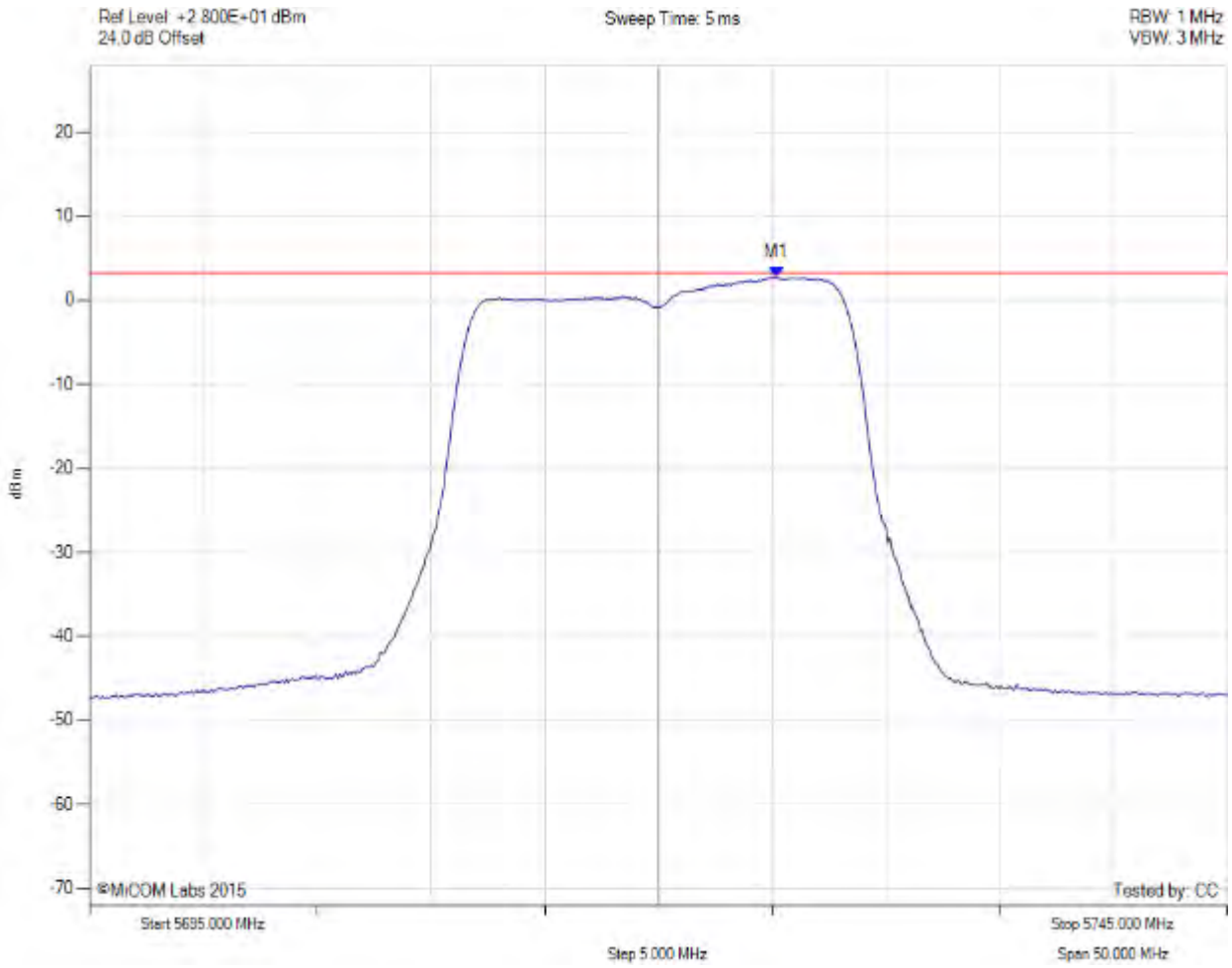


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5725.330 MHz : 2.798 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

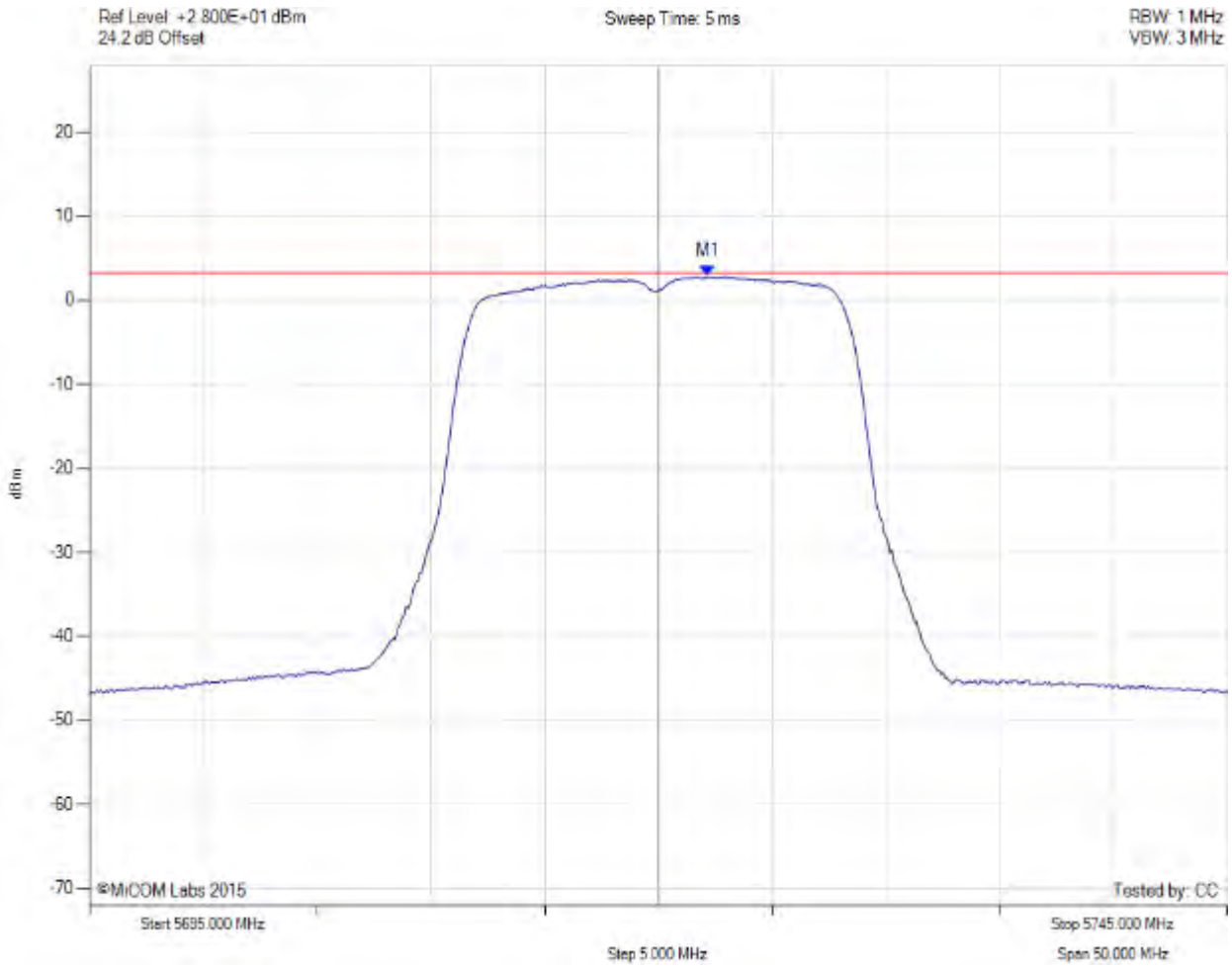


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5725.170 MHz : 2.747 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

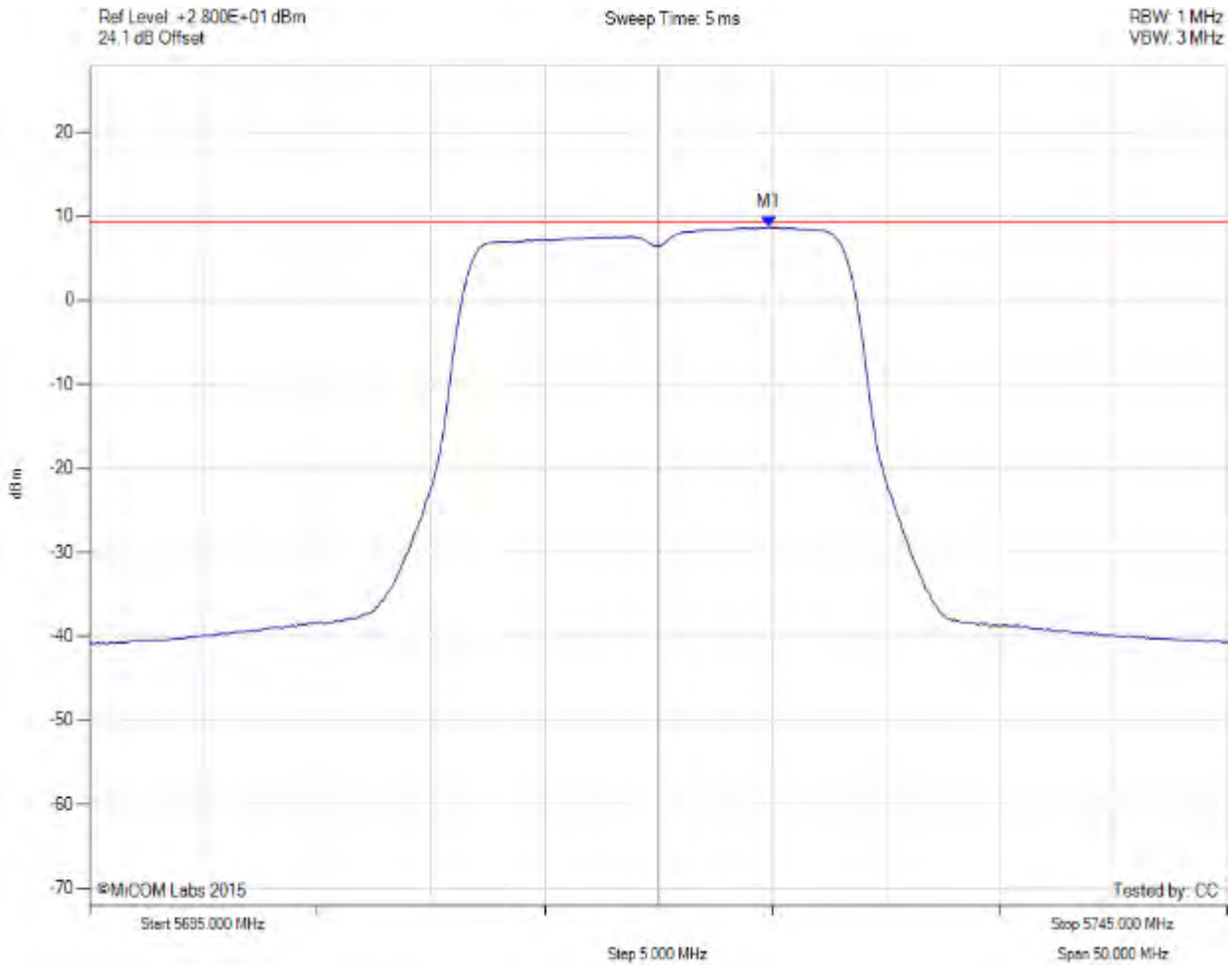


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5722.170 MHz : 2.861 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

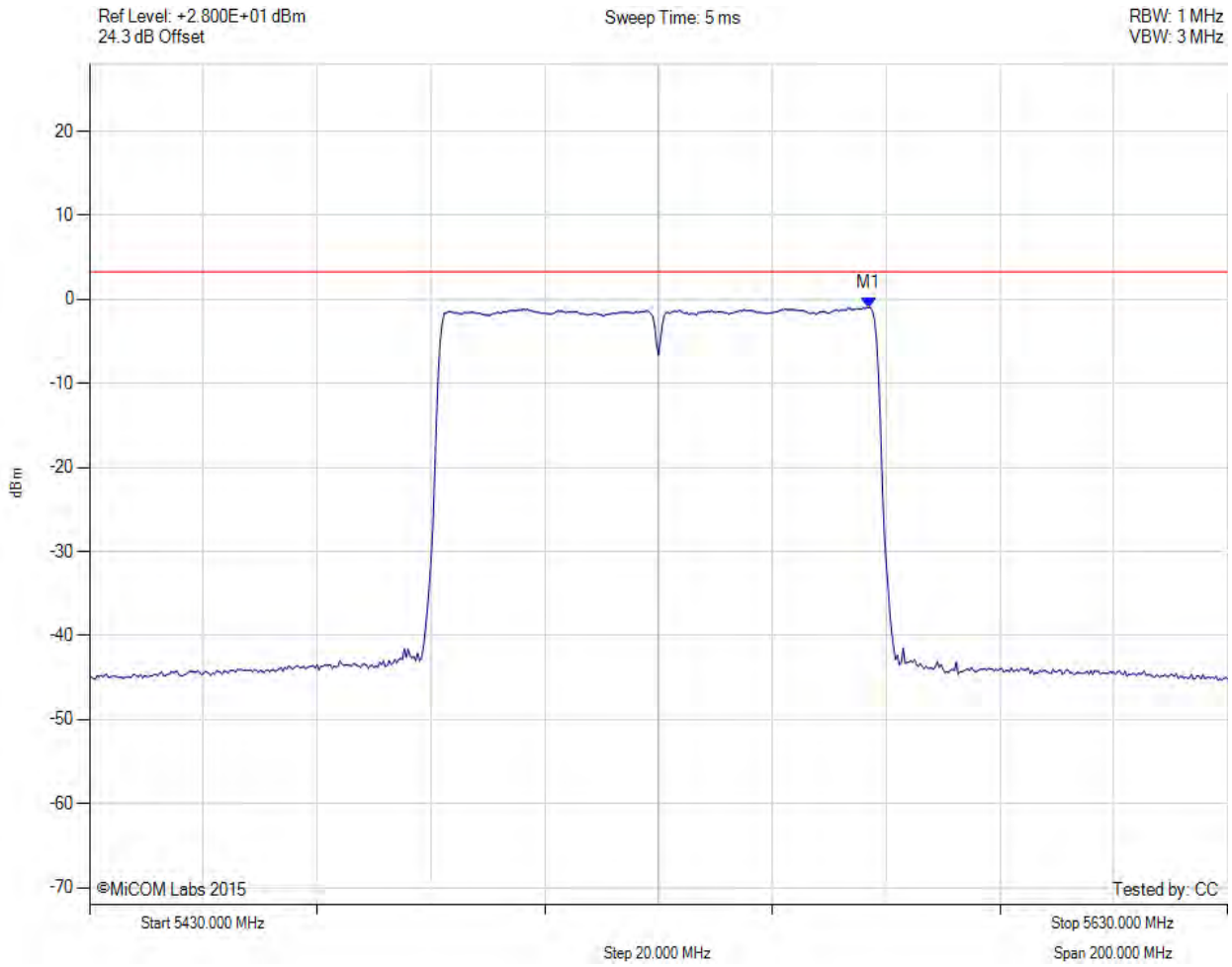


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5724.800 MHz : 8.711 dBm M1 + DCCF : 5724.800 MHz : 8.888 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.4 dB

back to matrix

POWER SPECTRAL DENSITY

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

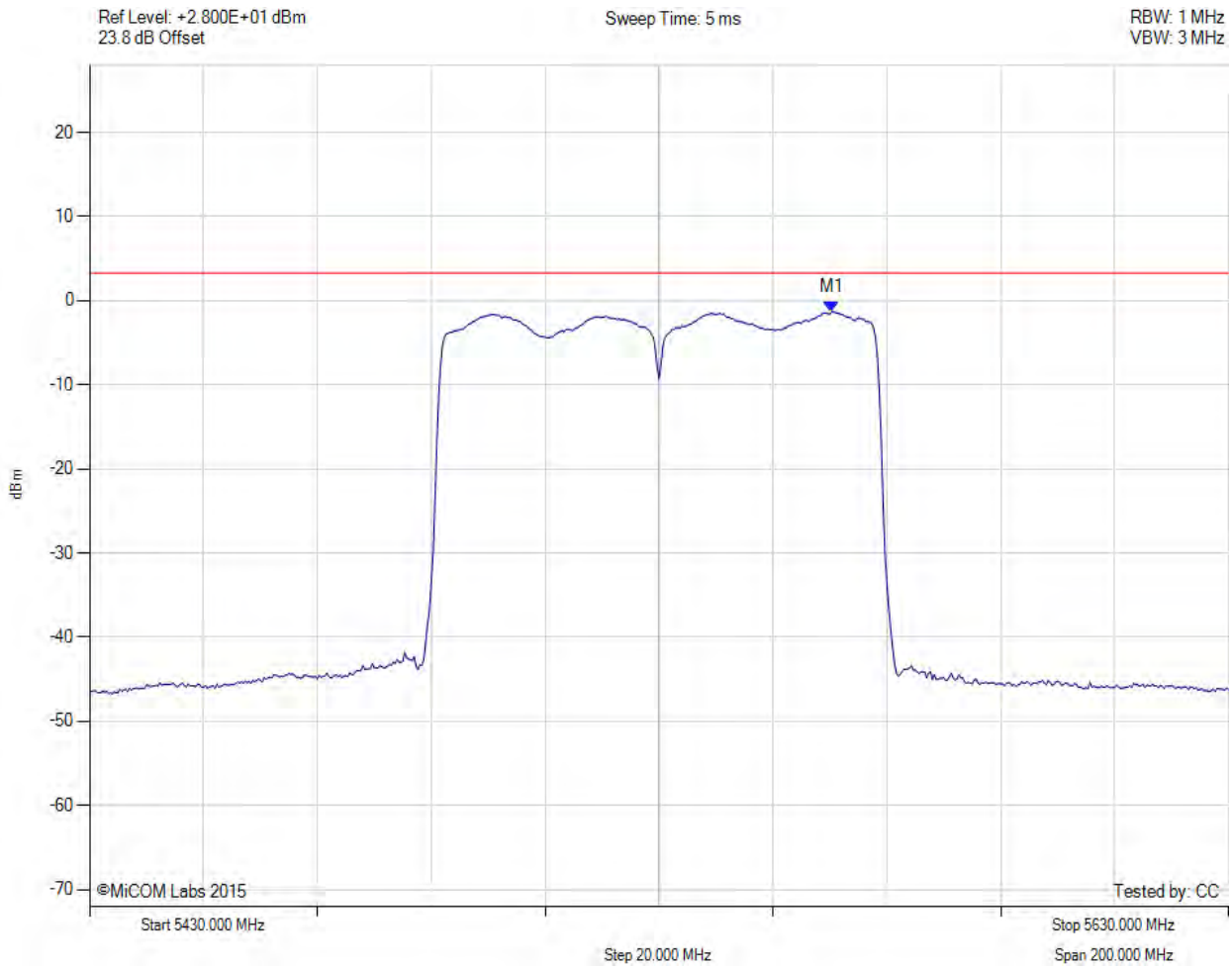


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5567.000 MHz : -0.969 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

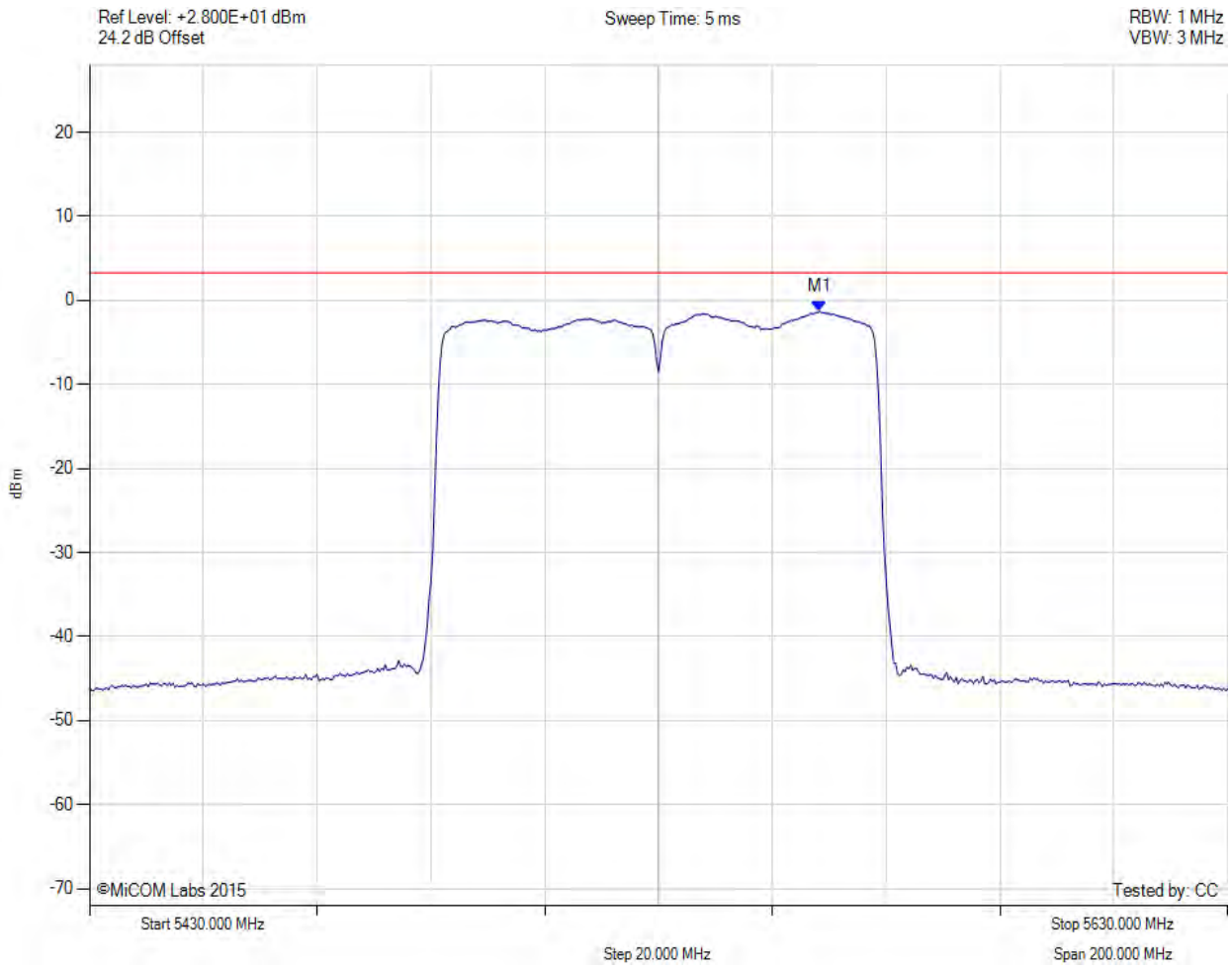


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5560.300 MHz : -1.310 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc

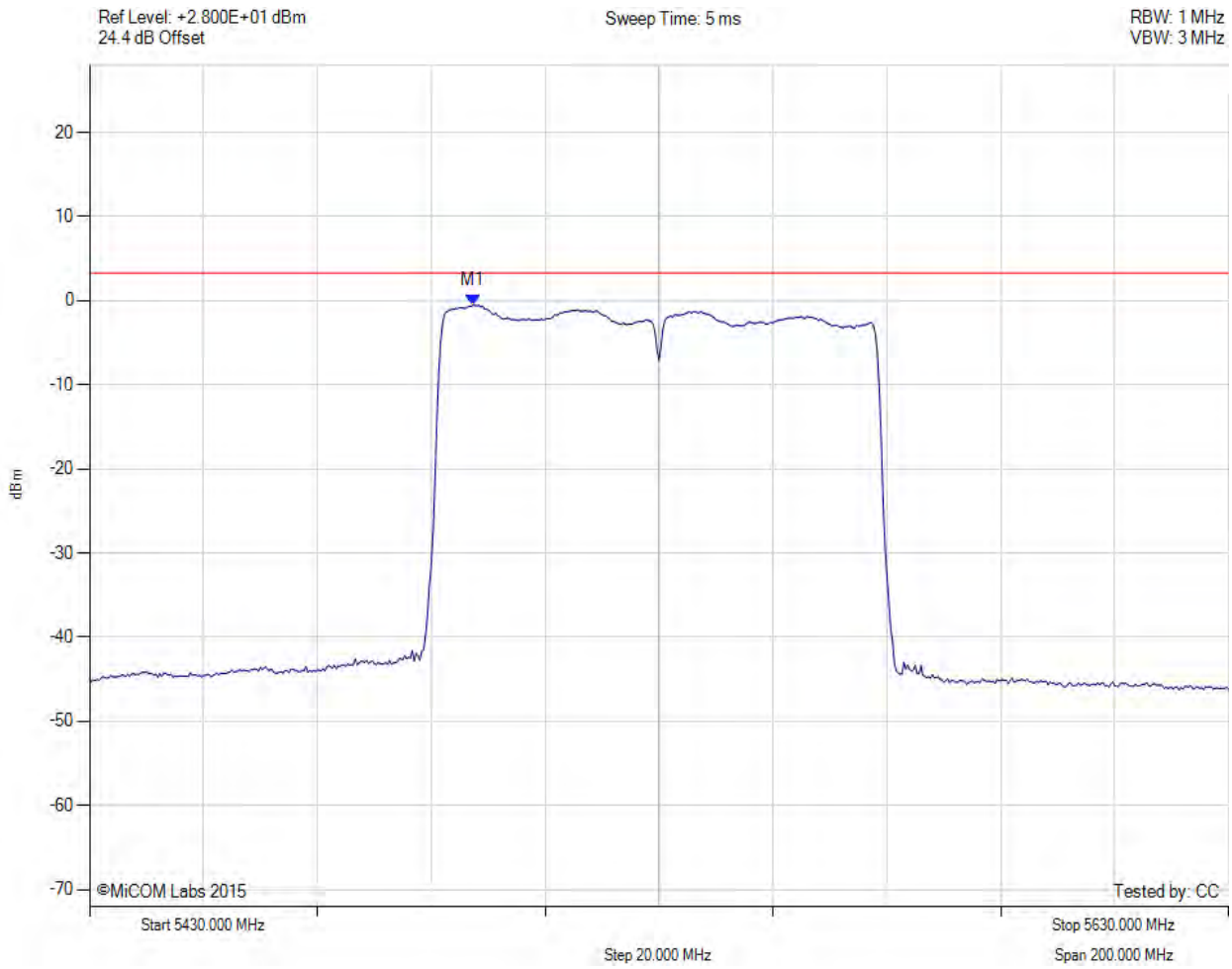


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5558.300 MHz : -1.305 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5530.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc

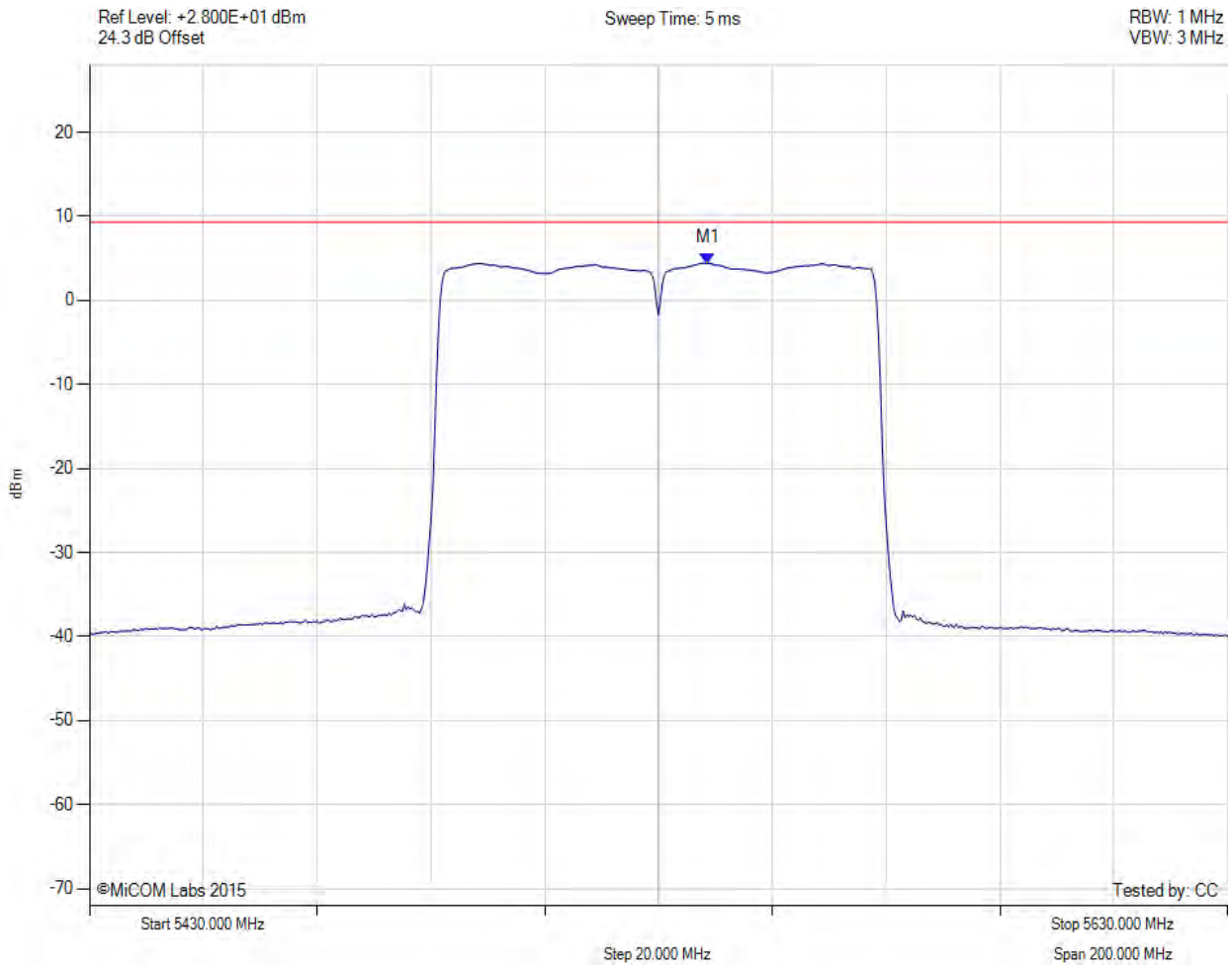


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5497.300 MHz : -0.507 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

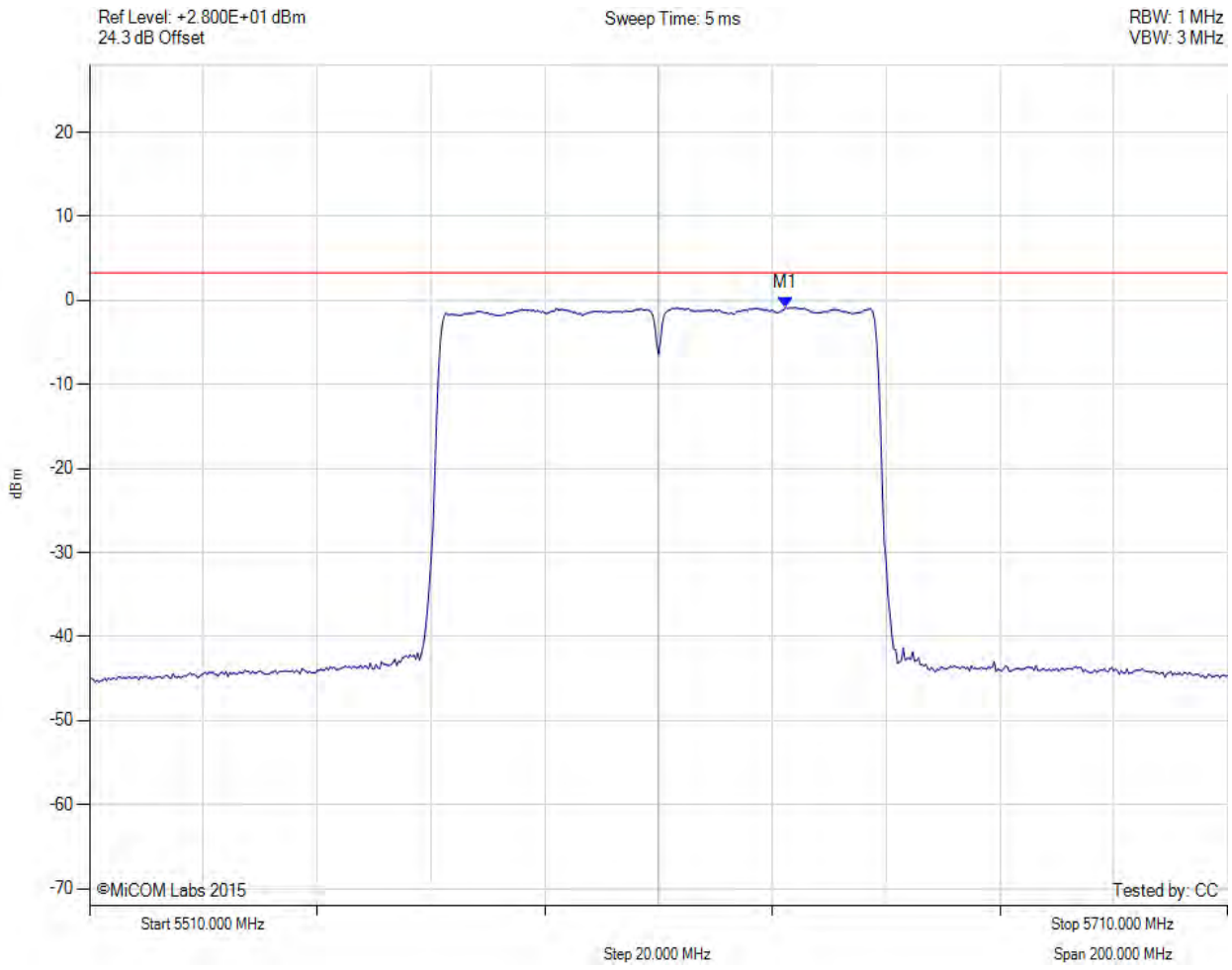


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5538.700 MHz : 4.451 dBm M1 + DCCF : 5538.700 MHz : 4.861 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 9.3 dBm Margin: -4.5 dB

back to matrix

POWER SPECTRAL DENSITY

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

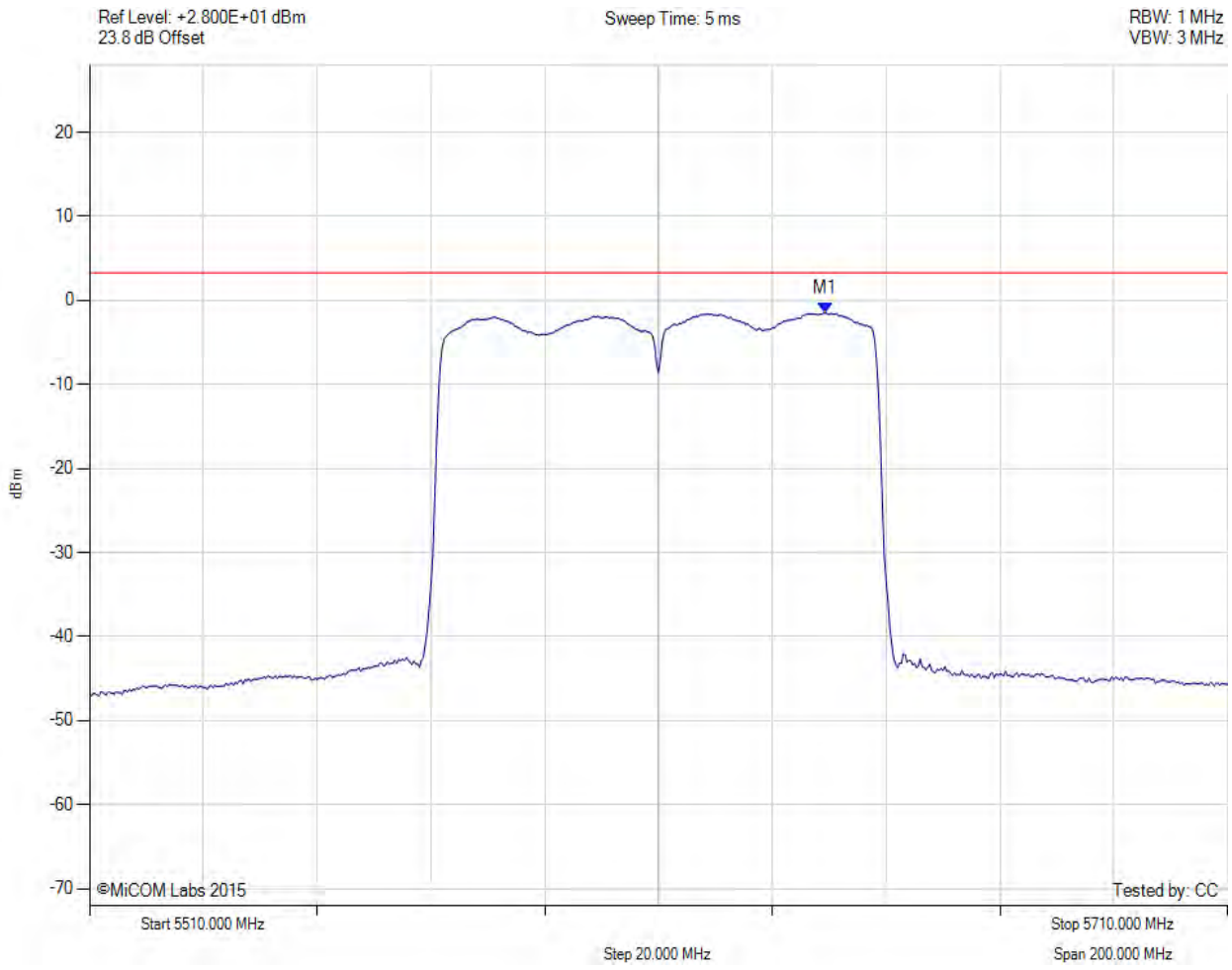


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5632.300 MHz : -0.816 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

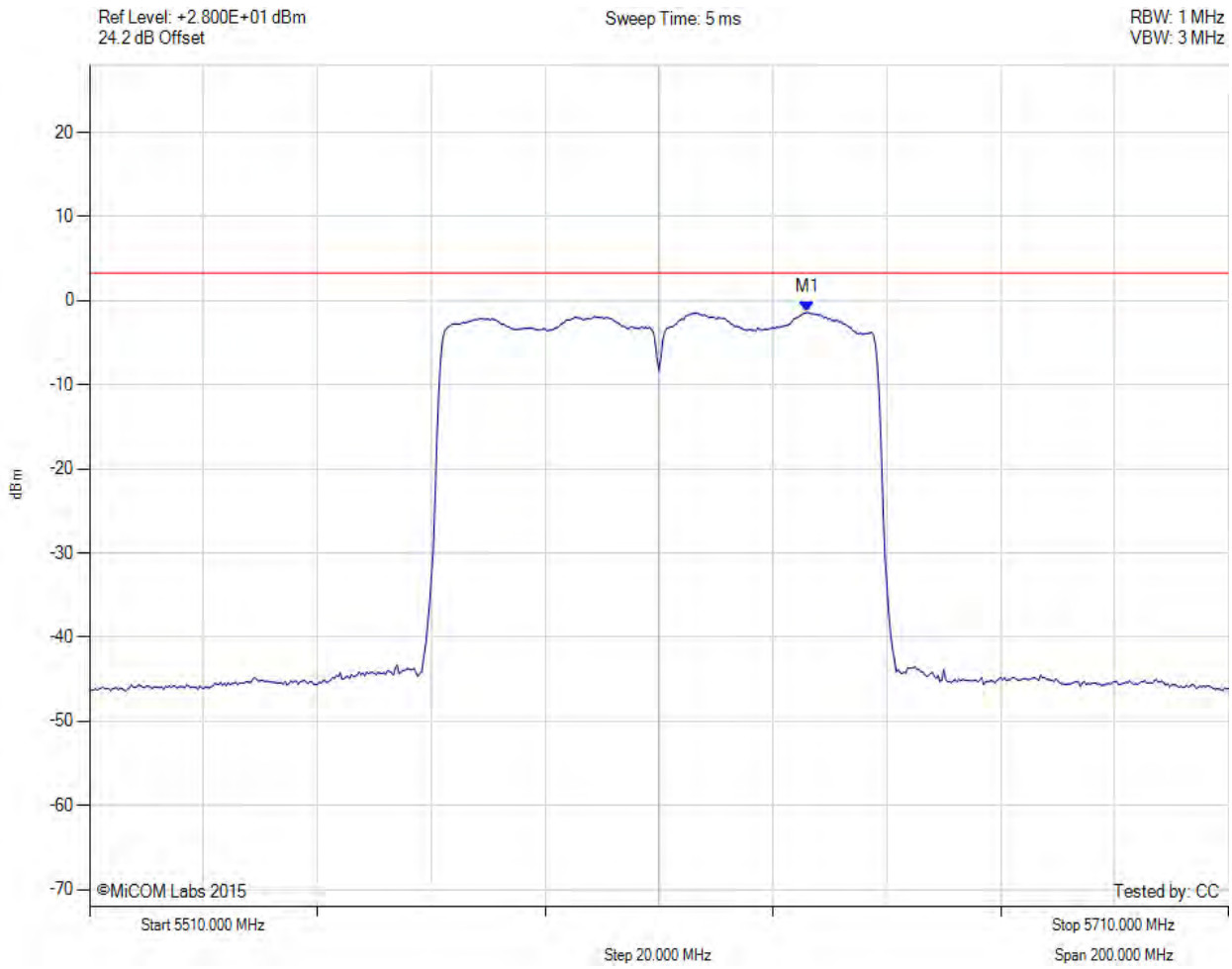


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5639.300 MHz : -1.495 dBm	Channel Frequency: 5610.00 MHz

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5636.000 MHz : -1.385 dBm	Limit: ≤ 3.280 dBm

back to matrix

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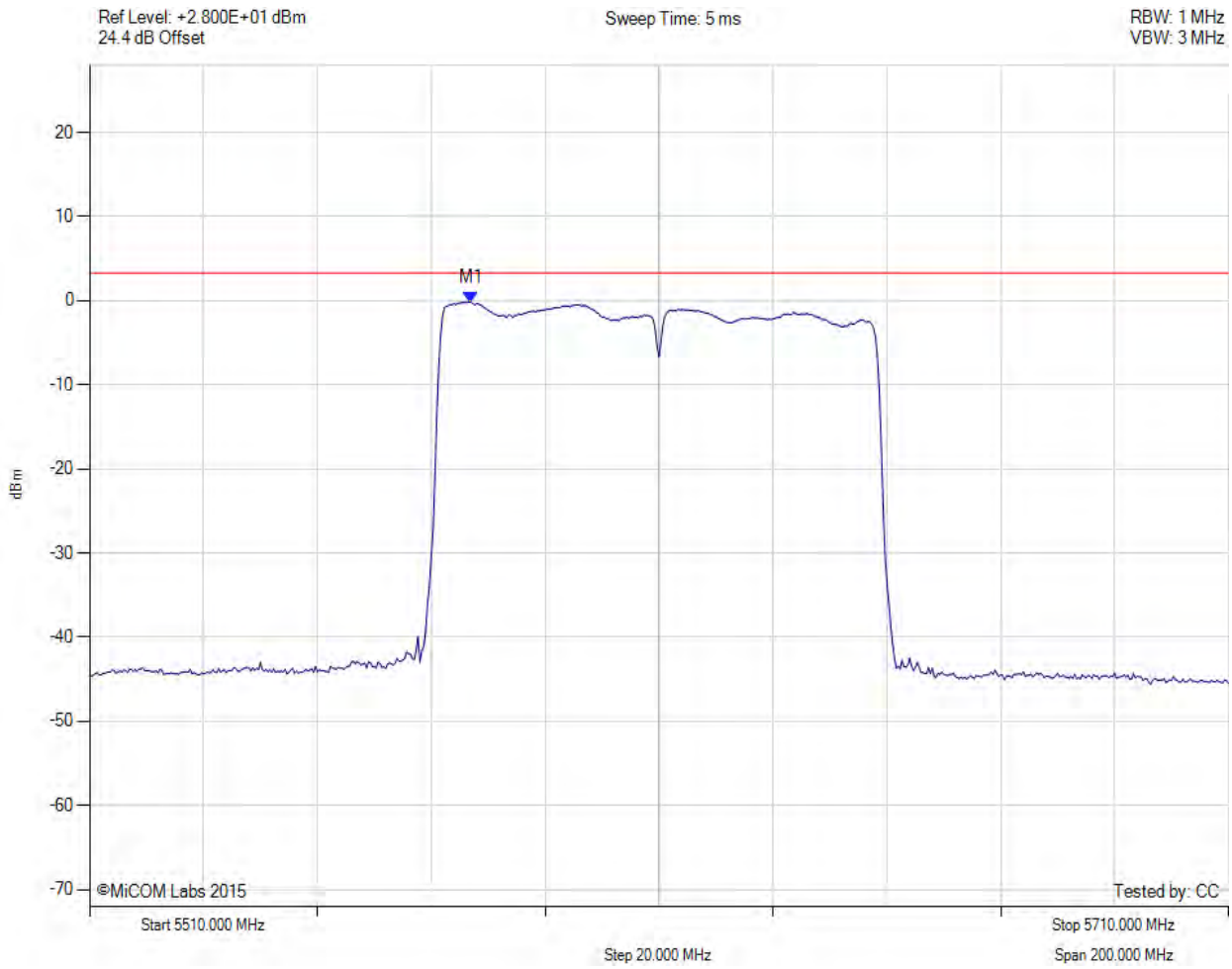
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5610.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5577.000 MHz : -0.154 dBm	Limit: ≤ 3.280 dBm

back to matrix

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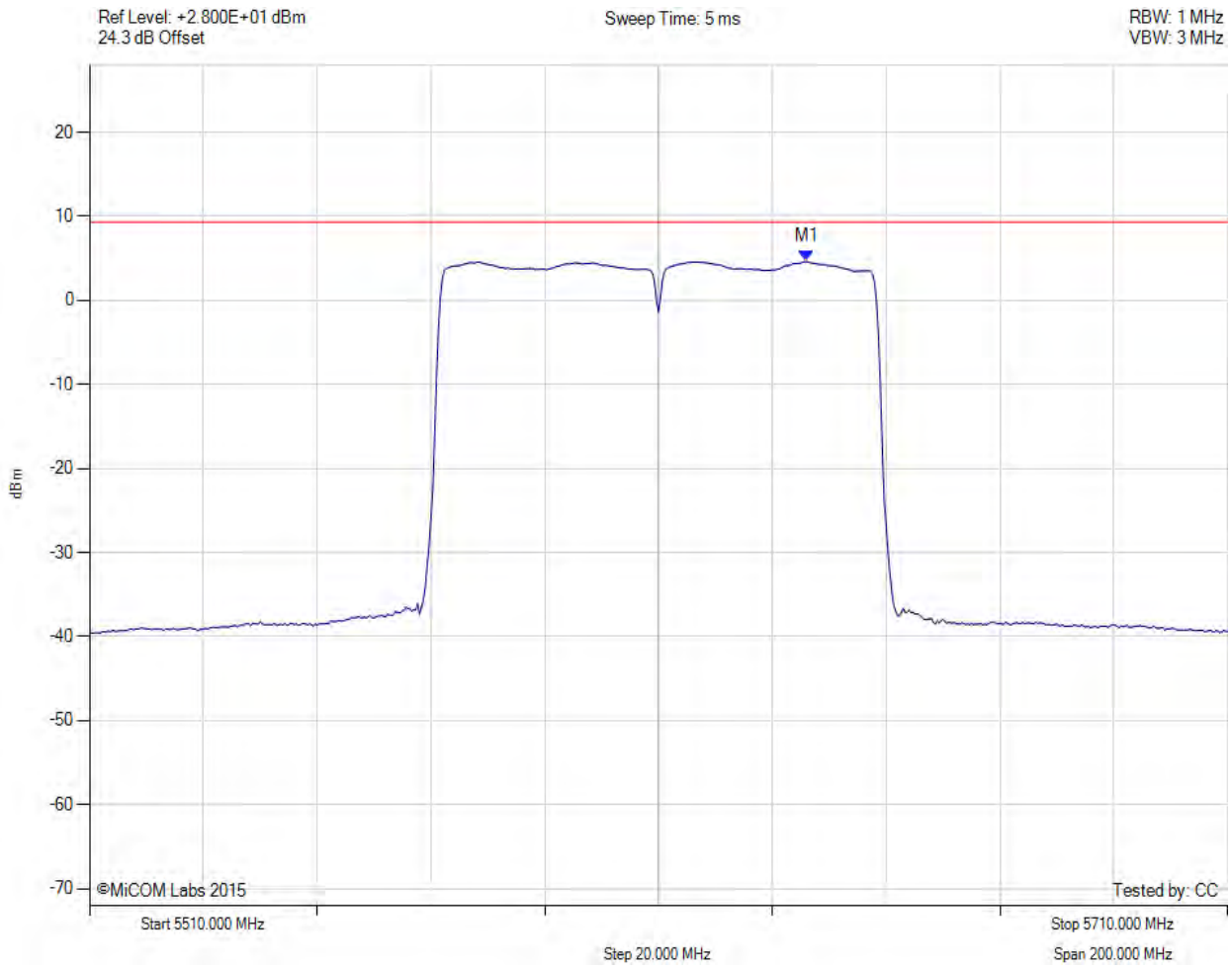
POWER SPECTRAL DENSITY

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

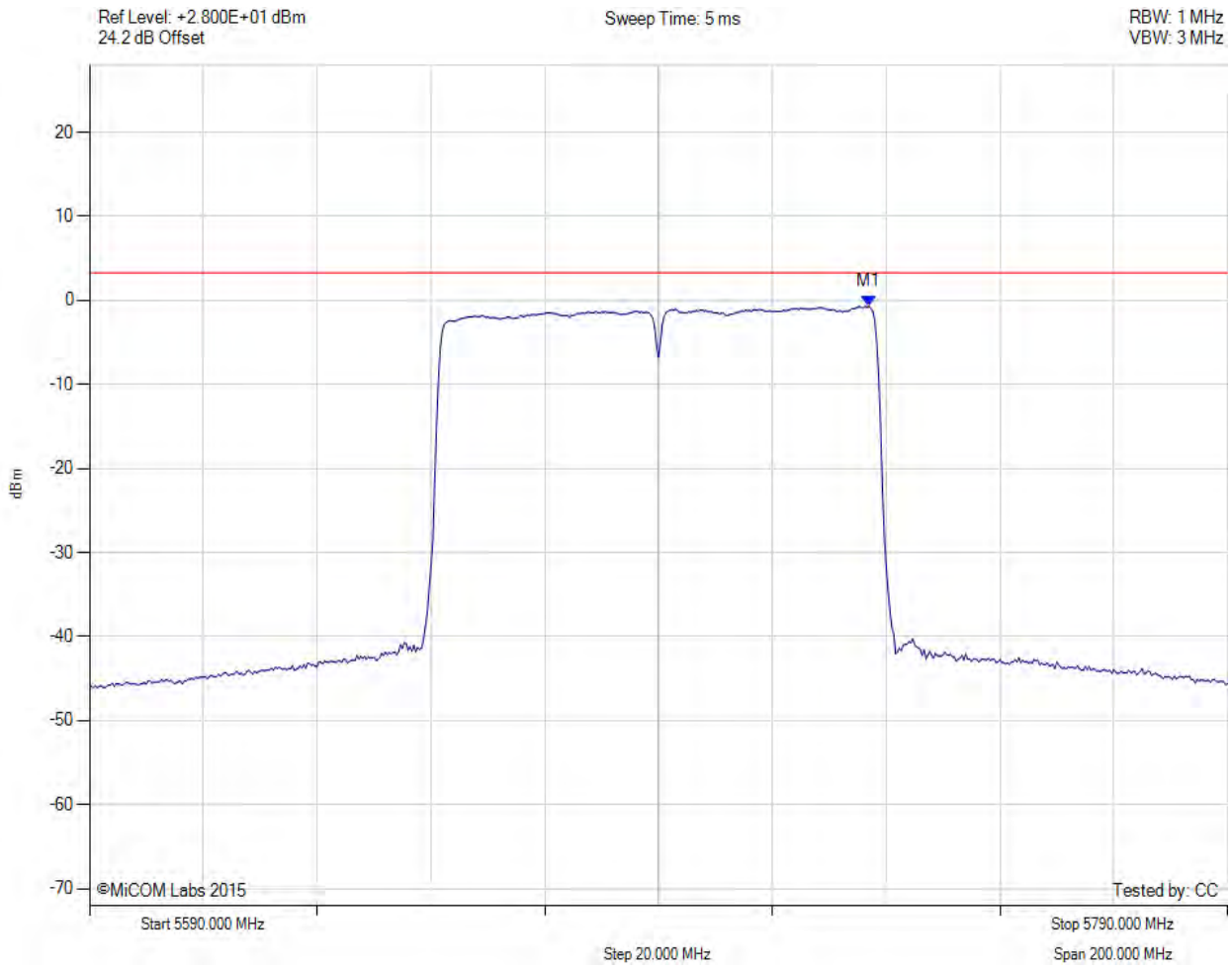


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5636.000 MHz : 4.627 dBm M1 + DCCF : 5636.000 MHz : 5.037 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 9.3 dBm Margin: -4.3 dB

back to matrix

POWER SPECTRAL DENSITY

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

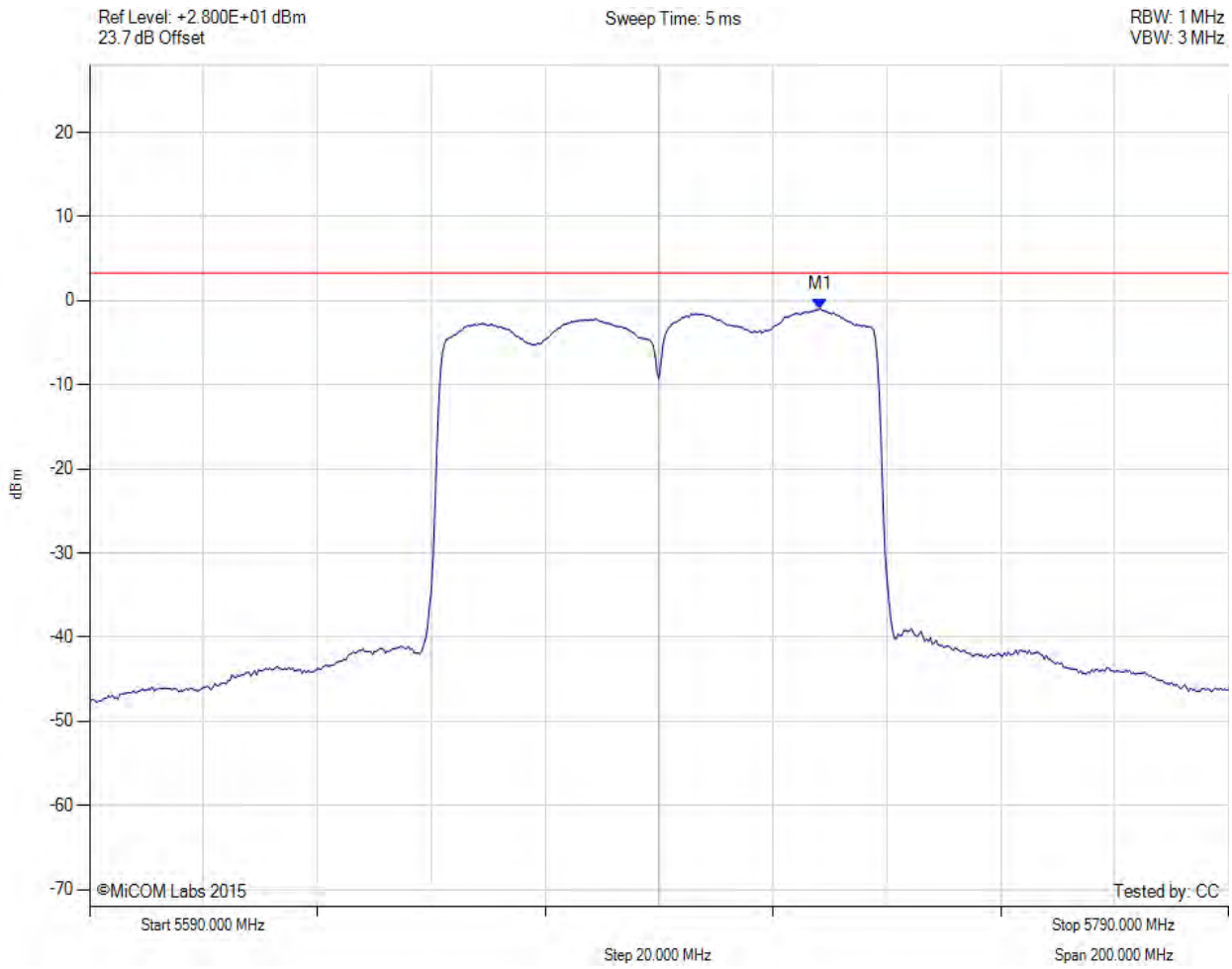


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5727.000 MHz : -0.704 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

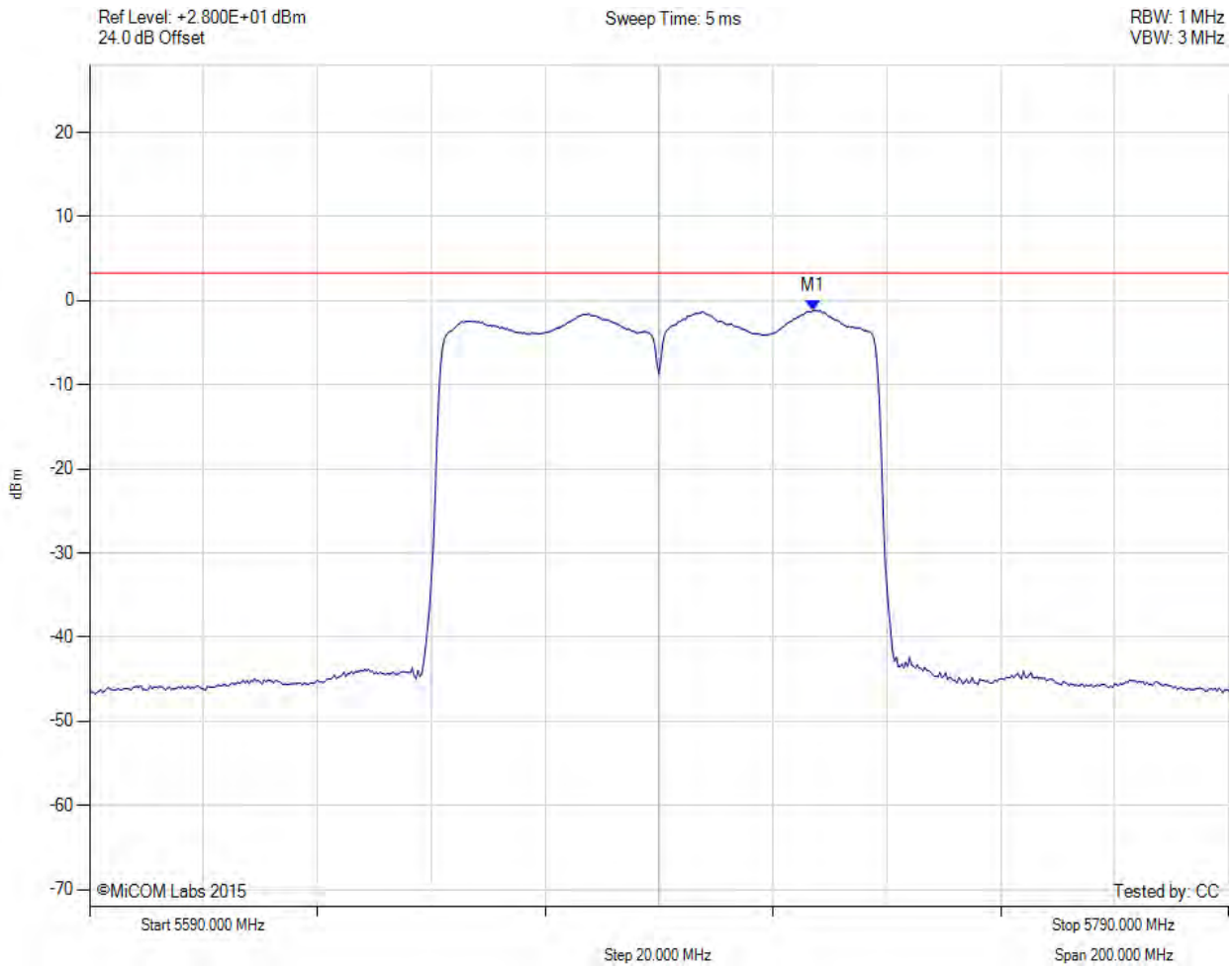


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5718.300 MHz : -0.951 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain c, Temp: Ambient, Voltage: 55 Vdc



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5717.000 MHz : -1.150 dBm	Limit: ≤ 3.280 dBm

back to matrix

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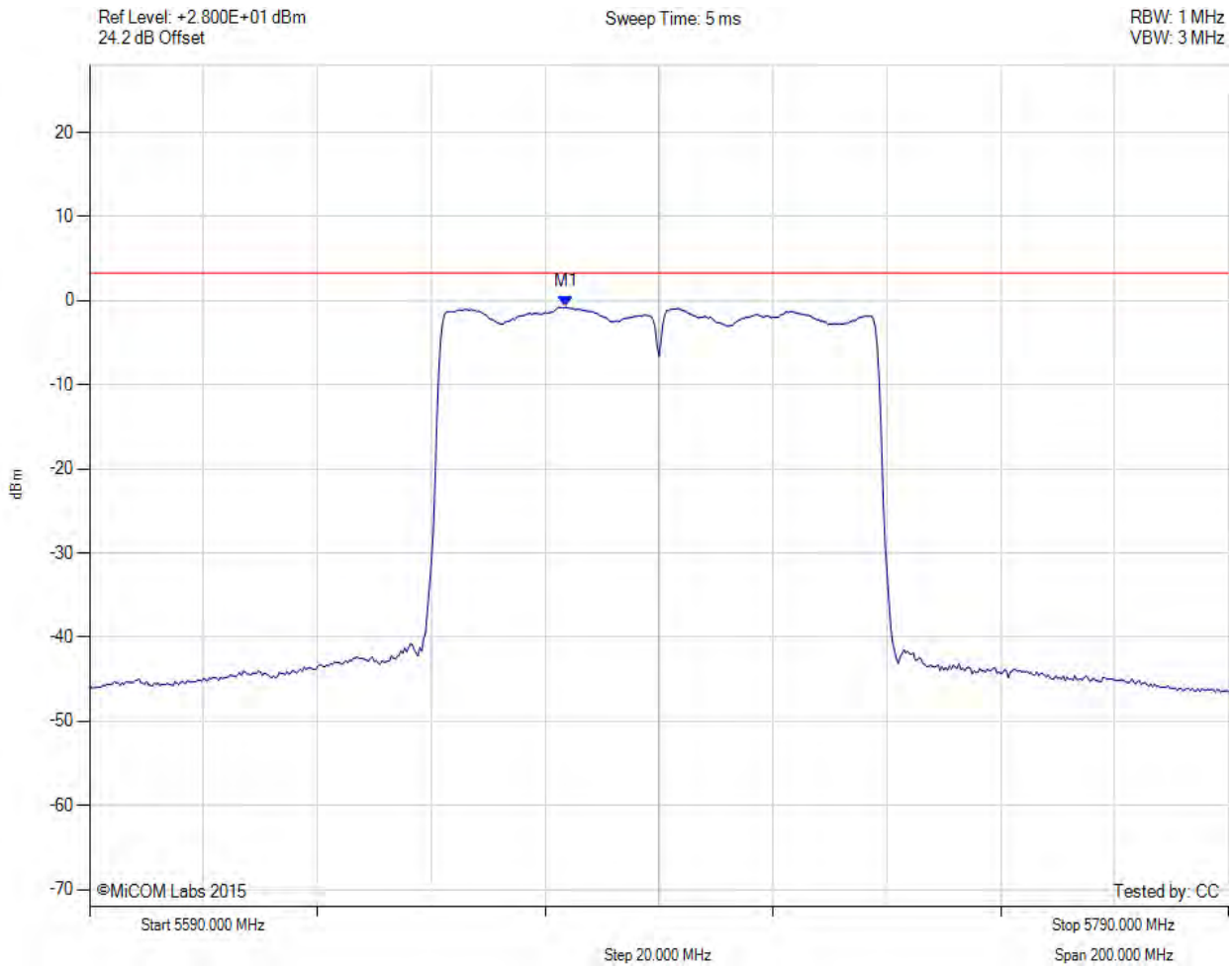
POWER SPECTRAL DENSITY

Variant: 802.11ac-80, Channel: 5690.00 MHz, Chain d, Temp: Ambient, Voltage: 55 Vdc

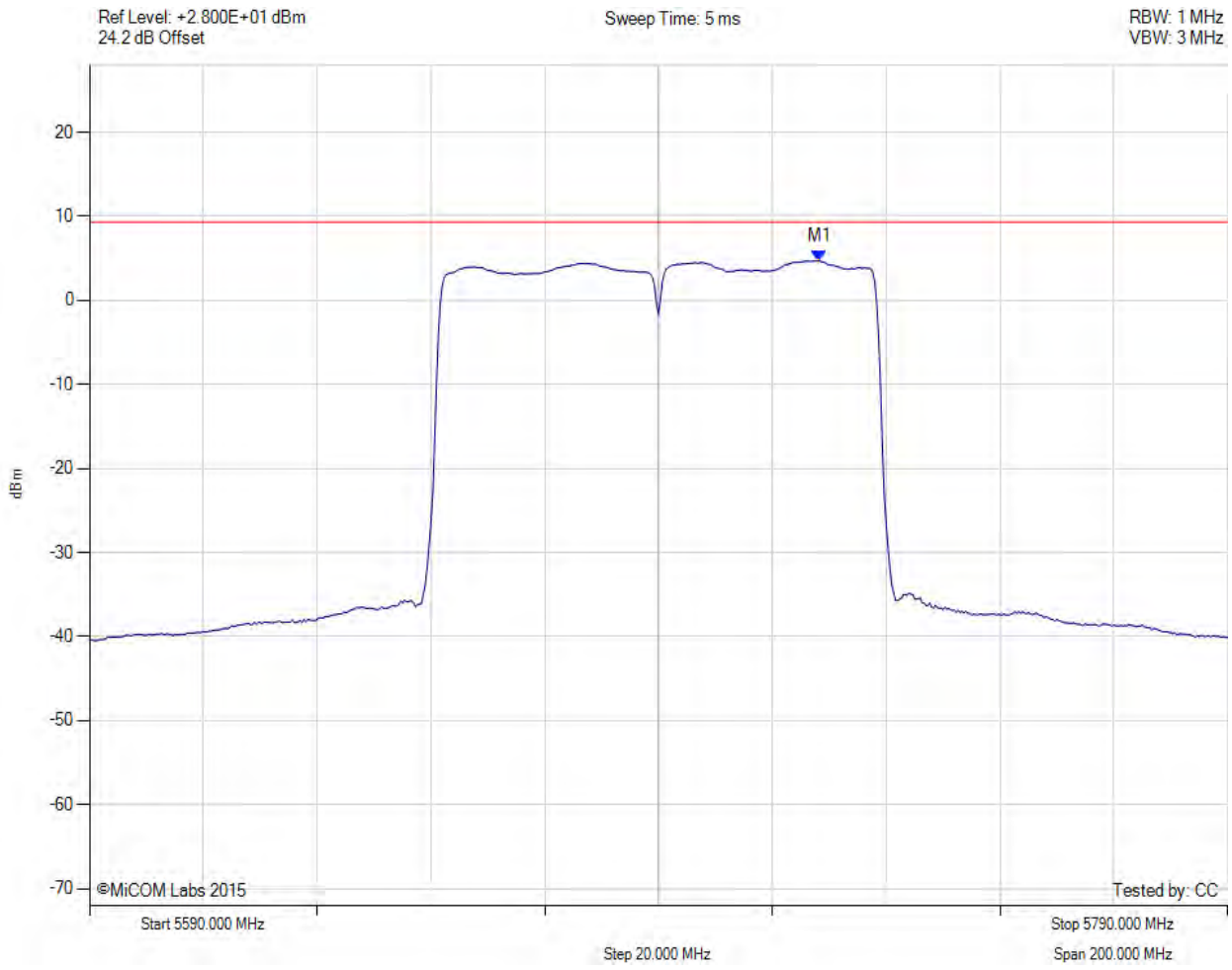


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5673.700 MHz : -0.756 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

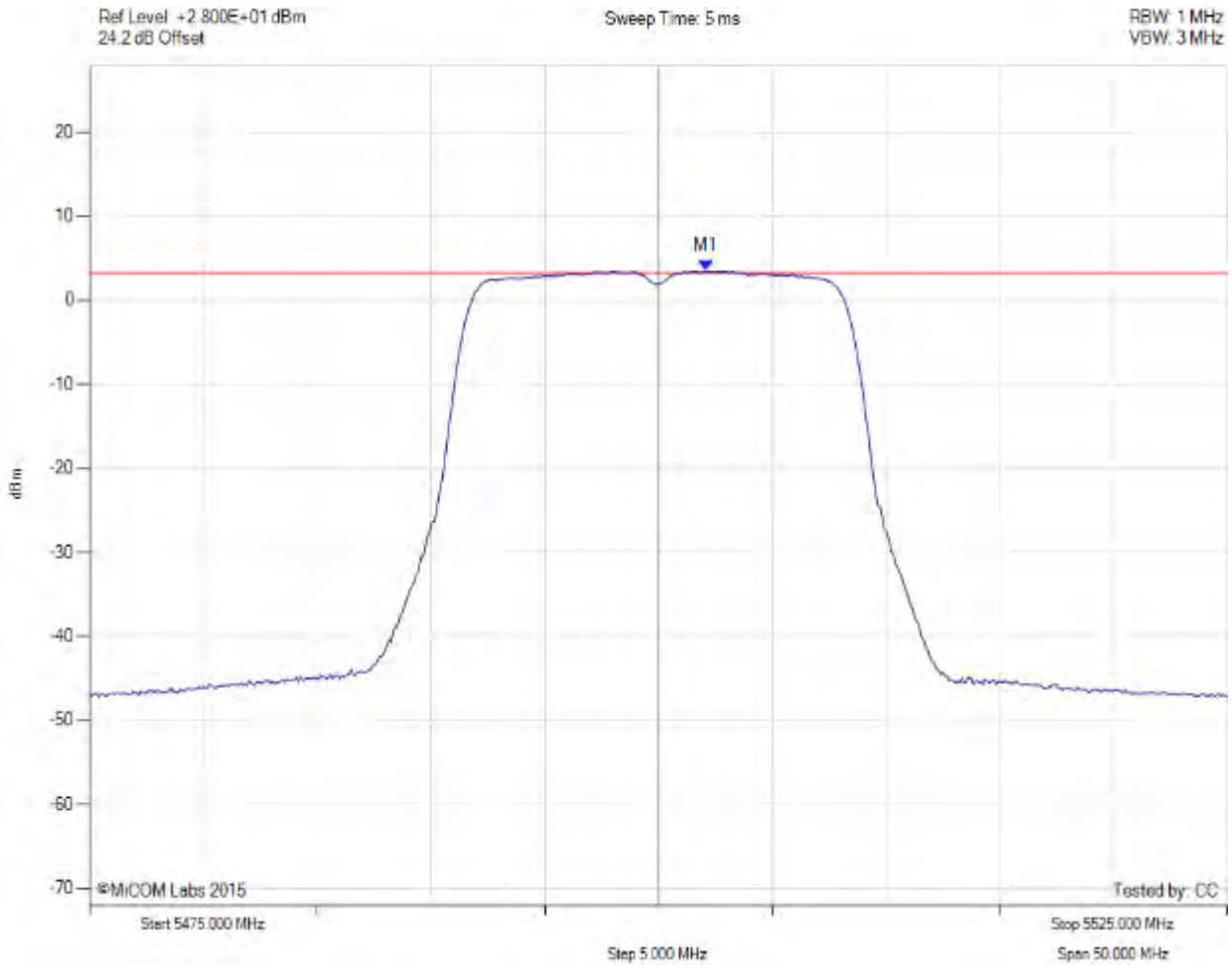


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5718.300 MHz : 4.719 dBm M1 + DCCF : 5718.300 MHz : 5.129 dBm Duty Cycle Correction Factor : +0.41 dB	Limit: ≤ 9.3 dBm Margin: -4.2 dB

back to matrix

POWER SPECTRAL DENSITY

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

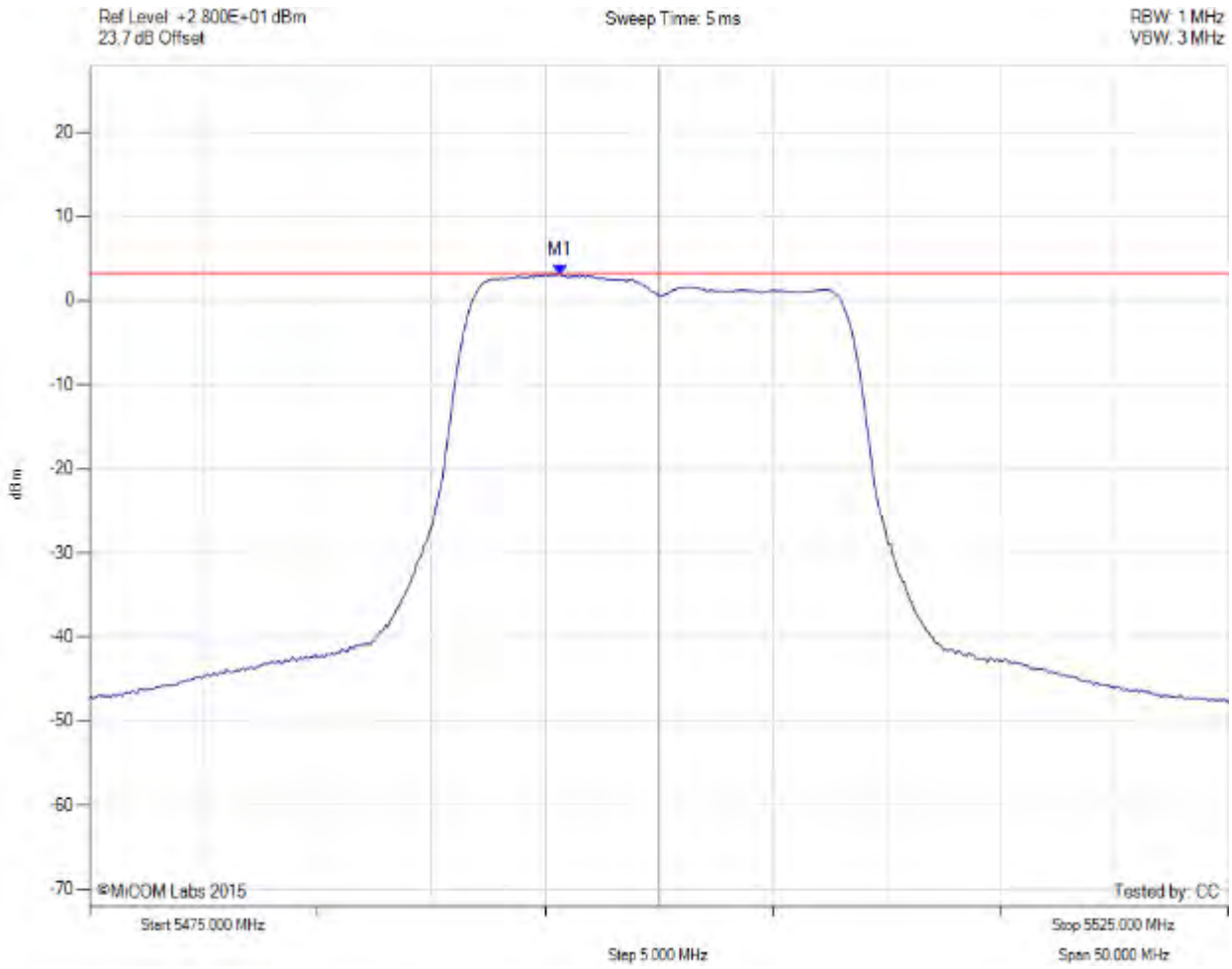


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5502.080 MHz : 3.478 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5495.670 MHz : 3.109 dBm	Limit: ≤ 3.280 dBm

back to matrix

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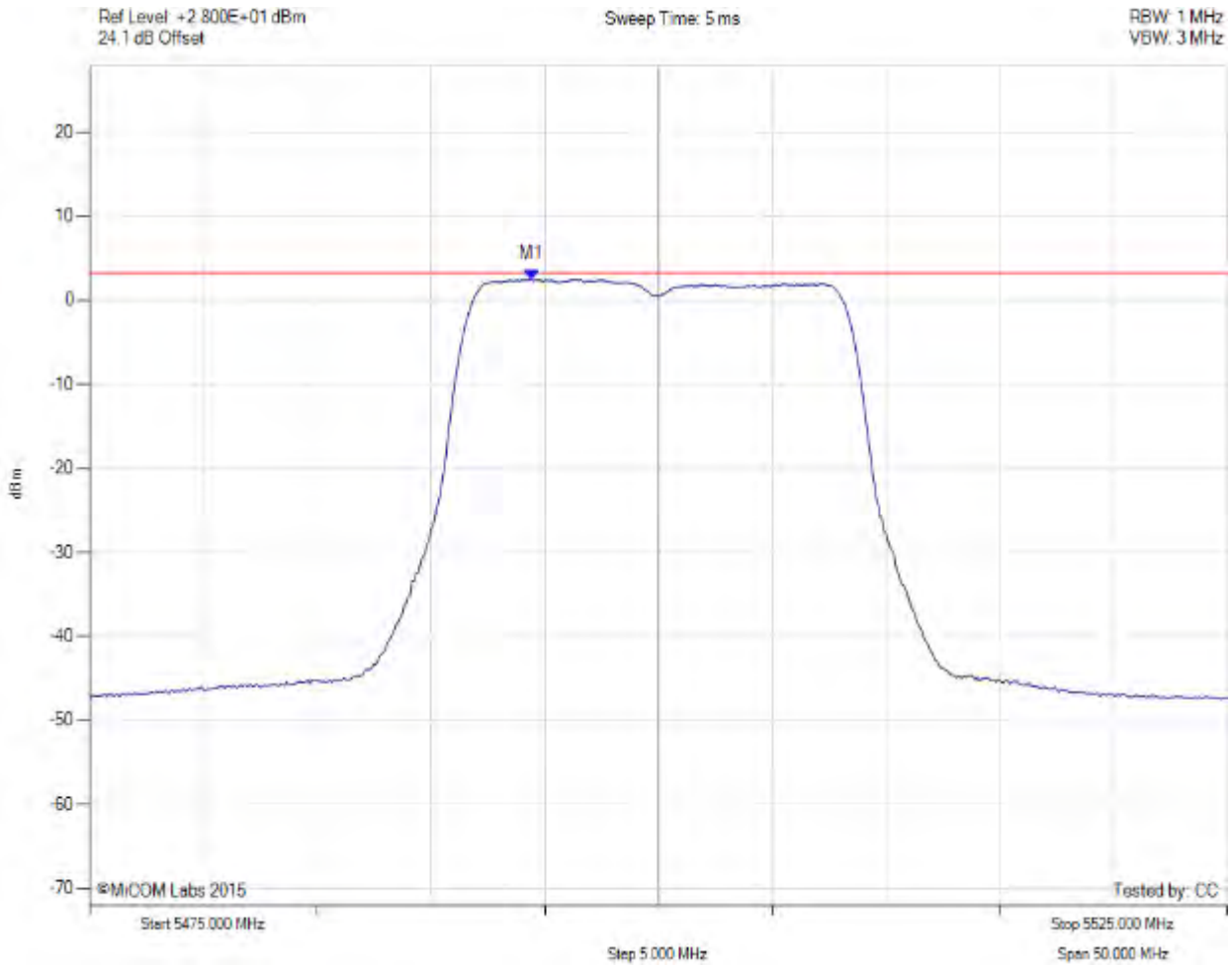
POWER SPECTRAL DENSITY

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

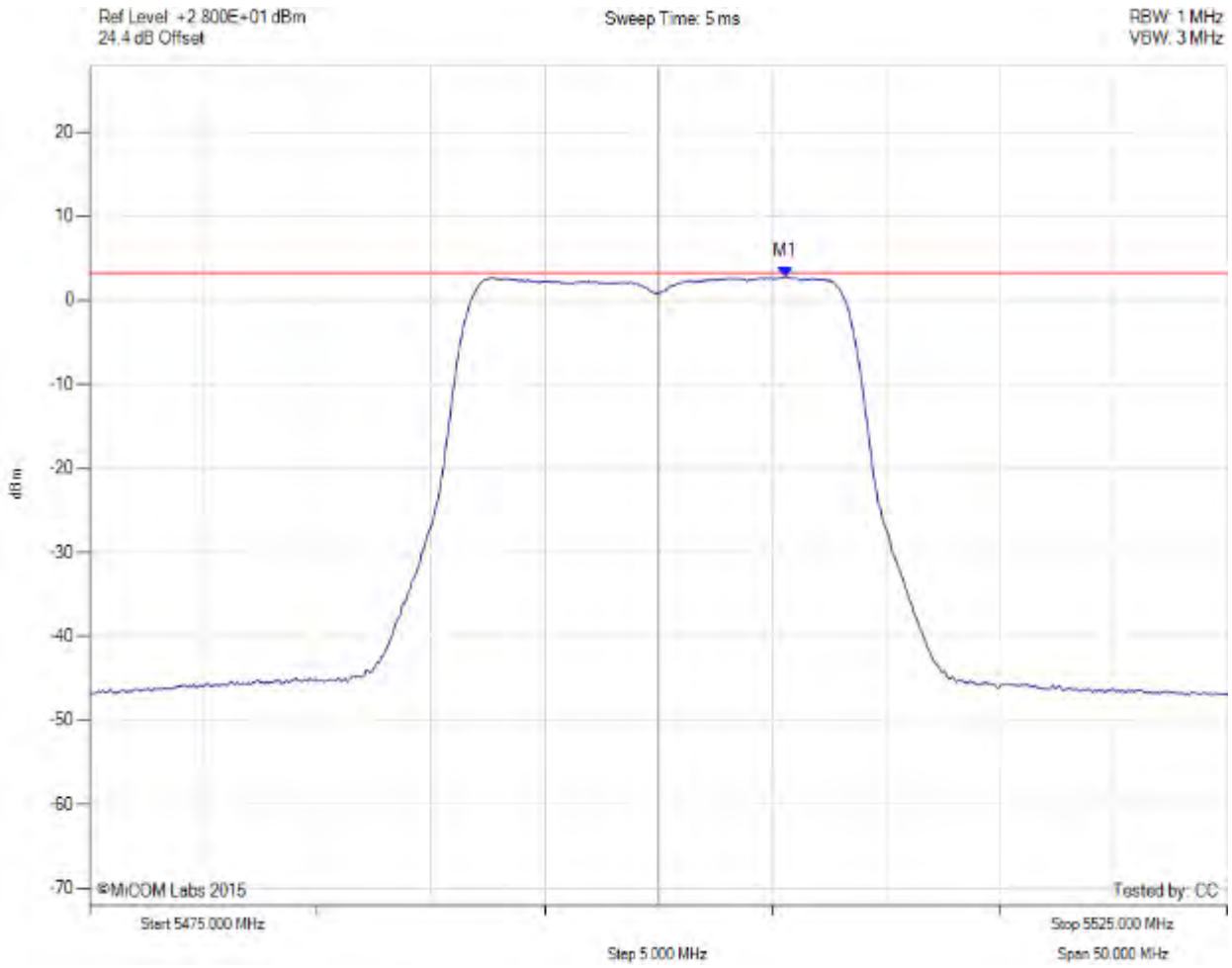


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5494.420 MHz : 2.480 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

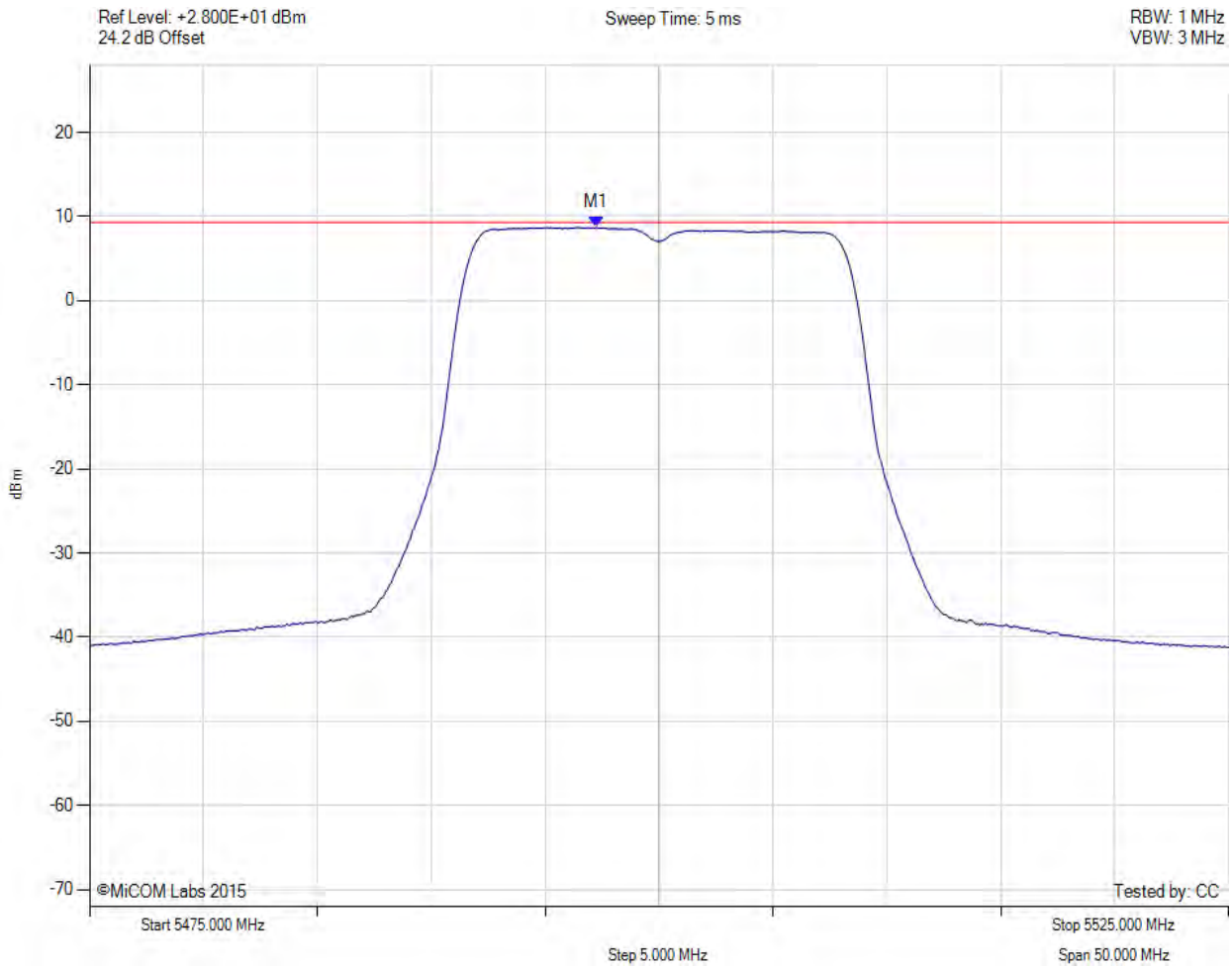


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5505.580 MHz : 2.817 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

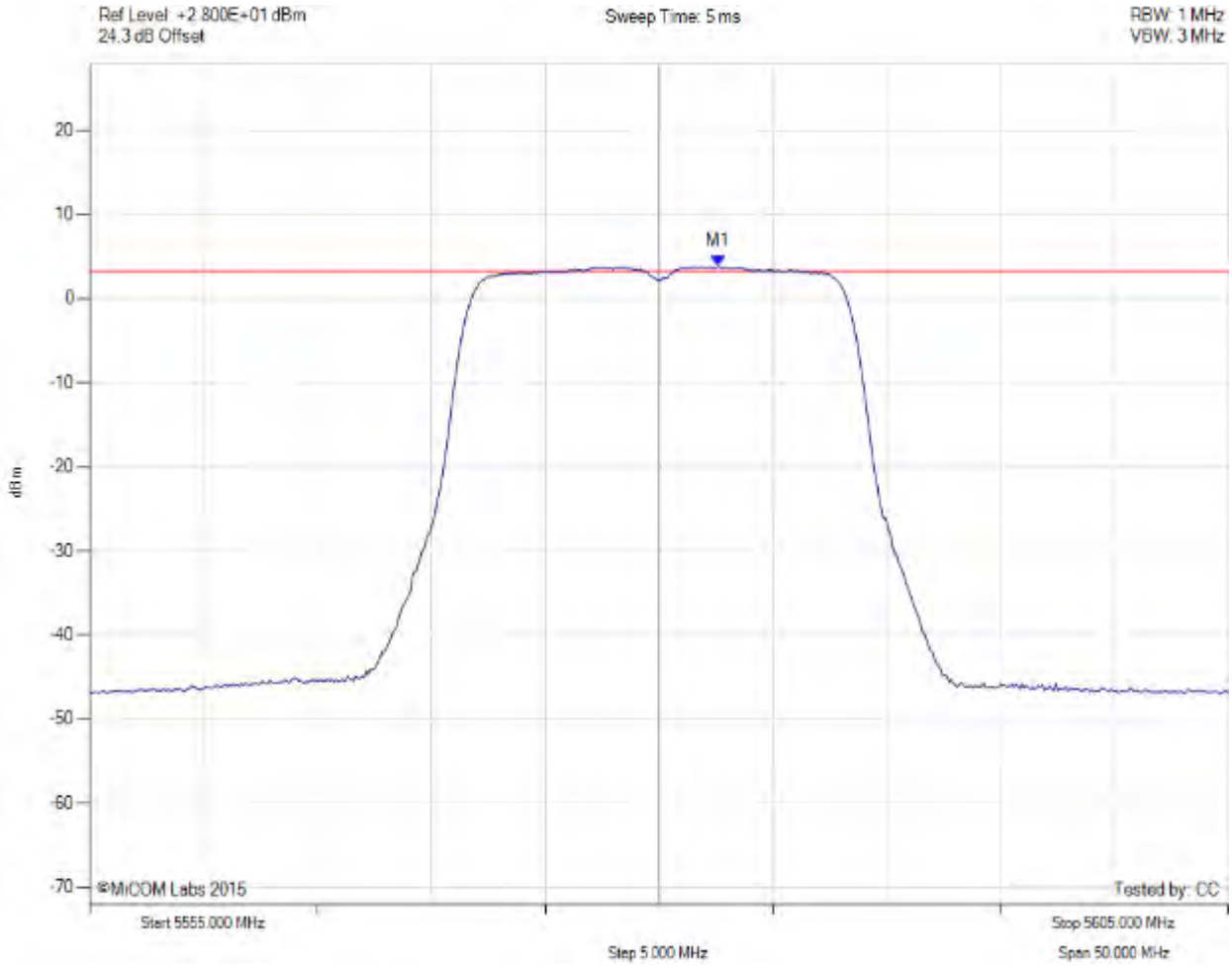


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5497.300 MHz : 8.728 dBm M1 + DCCF : 5497.300 MHz : 8.816 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.5 dB

back to matrix

POWER SPECTRAL DENSITY

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

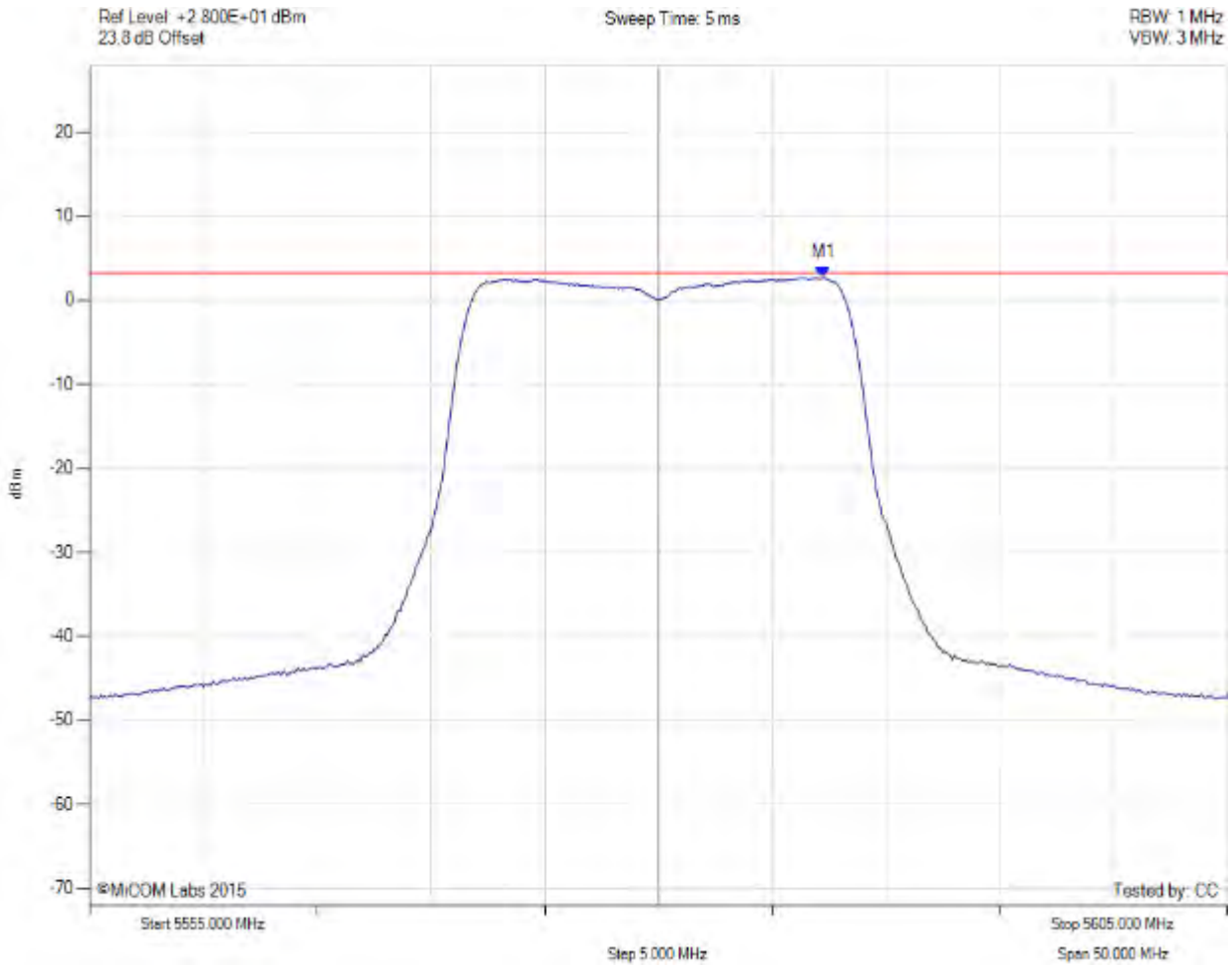


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5582.580 MHz : 3.844 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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

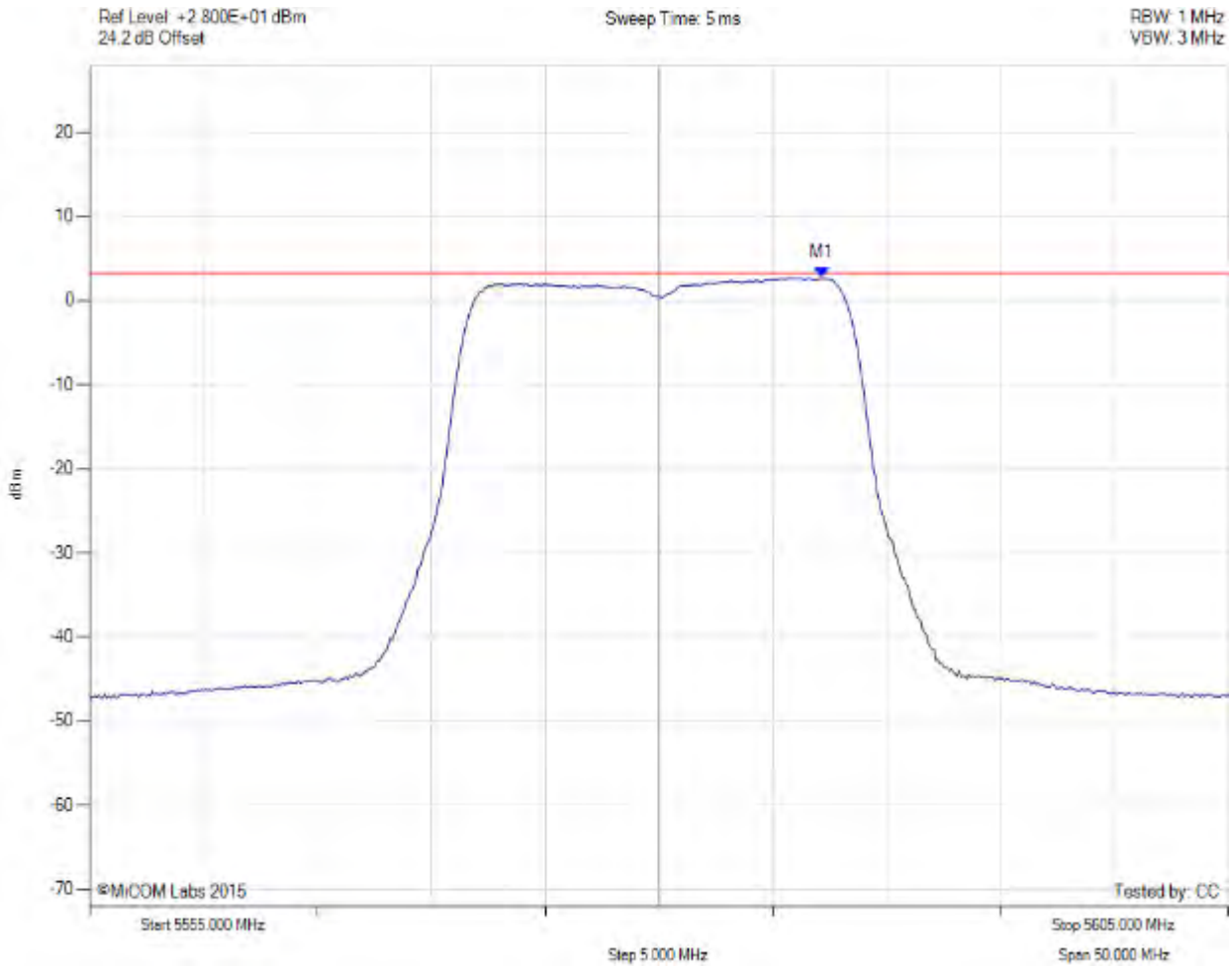


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5587.250 MHz : 2.701 dBm	Channel Frequency: 5580.00 MHz

back to matrix

POWER SPECTRAL DENSITY

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

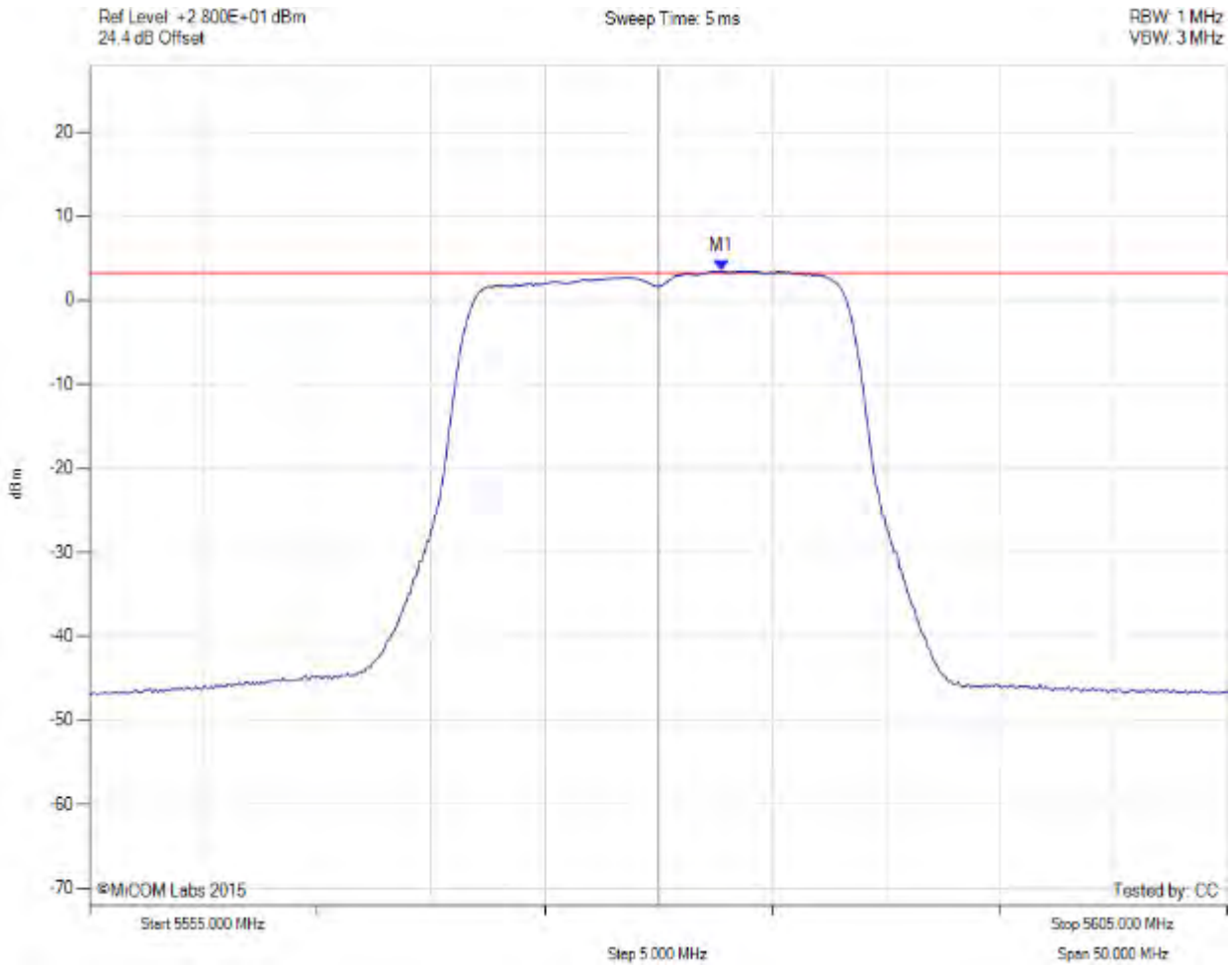


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5587.170 MHz : 2.700 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5582.750 MHz : 3.496 dBm	Limit: ≤ 3.280 dBm

back to matrix

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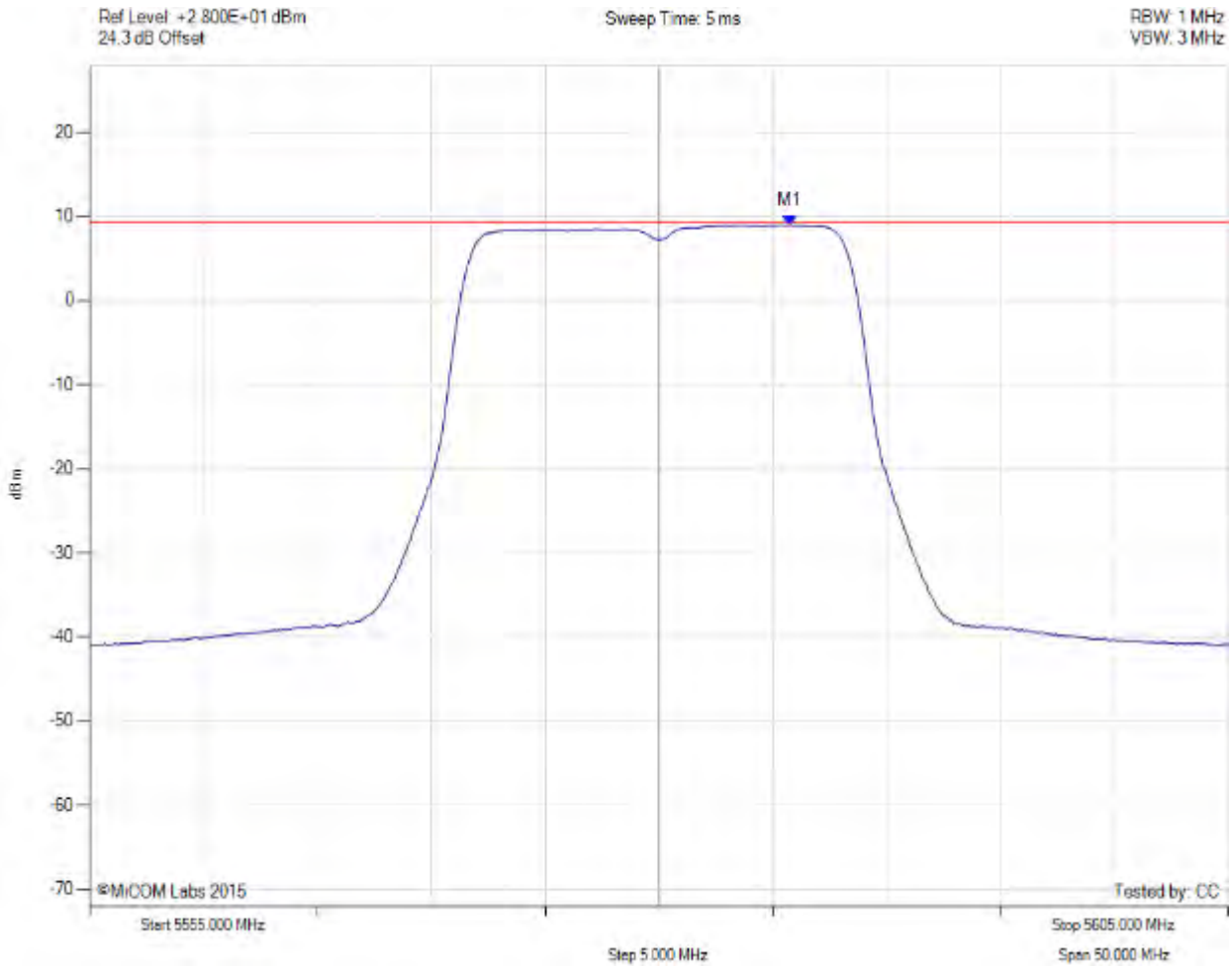
POWER SPECTRAL DENSITY

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

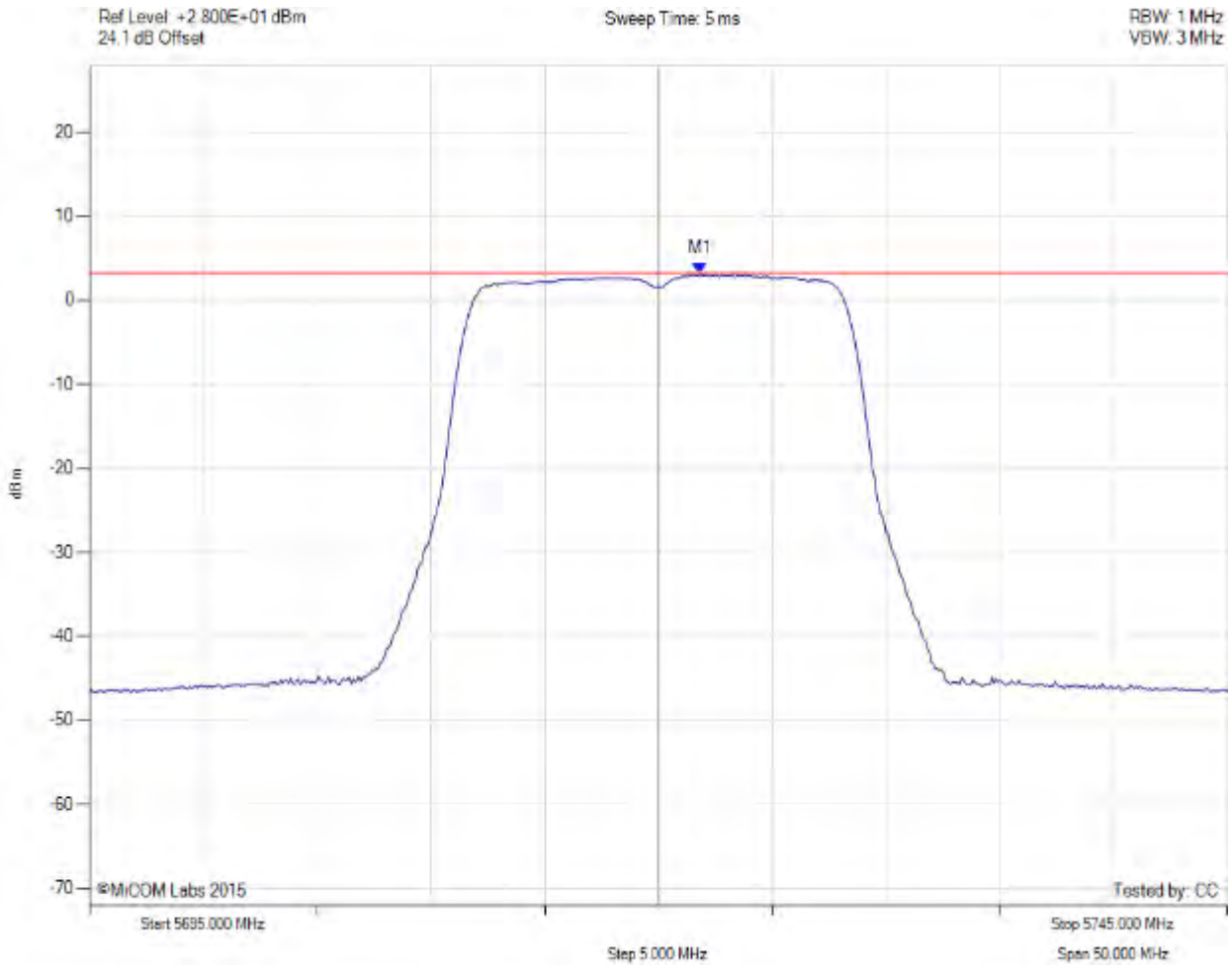


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5585.800 MHz : 8.990 dBm M1 + DCCF : 5585.800 MHz : 9.078 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.2 dB

back to matrix

POWER SPECTRAL DENSITY

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

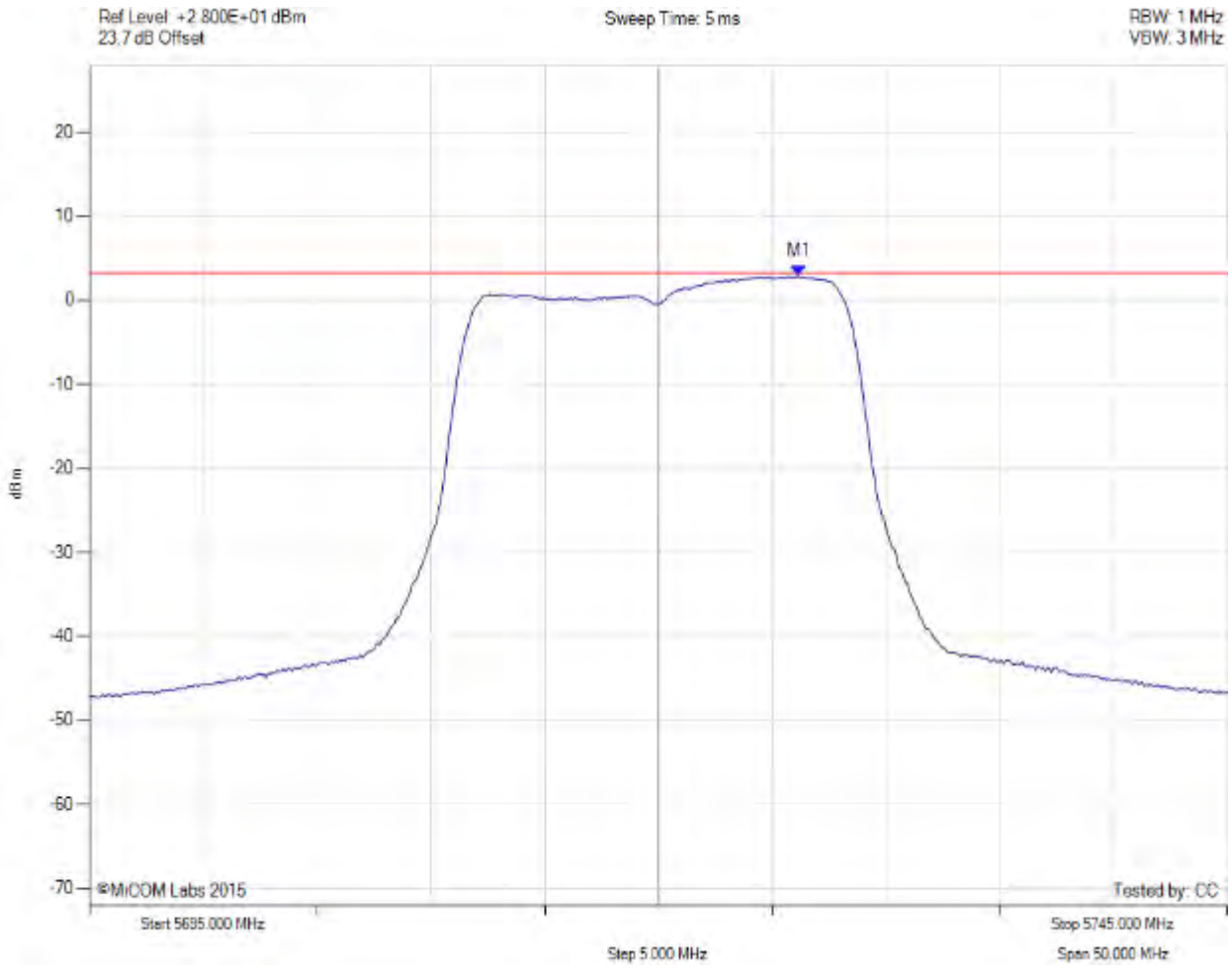


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5721.830 MHz : 3.167 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5726.170 MHz : 2.845 dBm	Limit: ≤ 3.280 dBm

back to matrix

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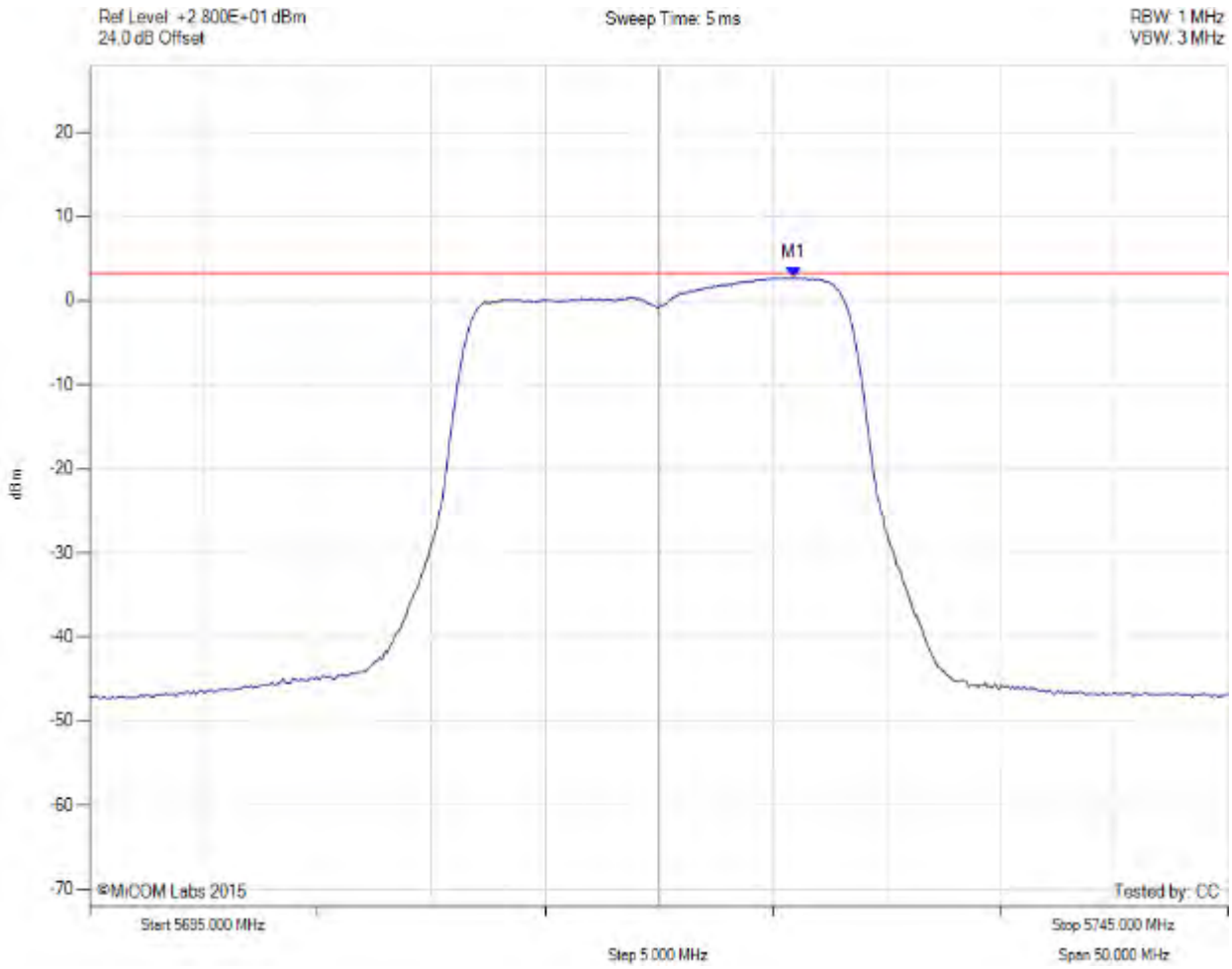
POWER SPECTRAL DENSITY

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

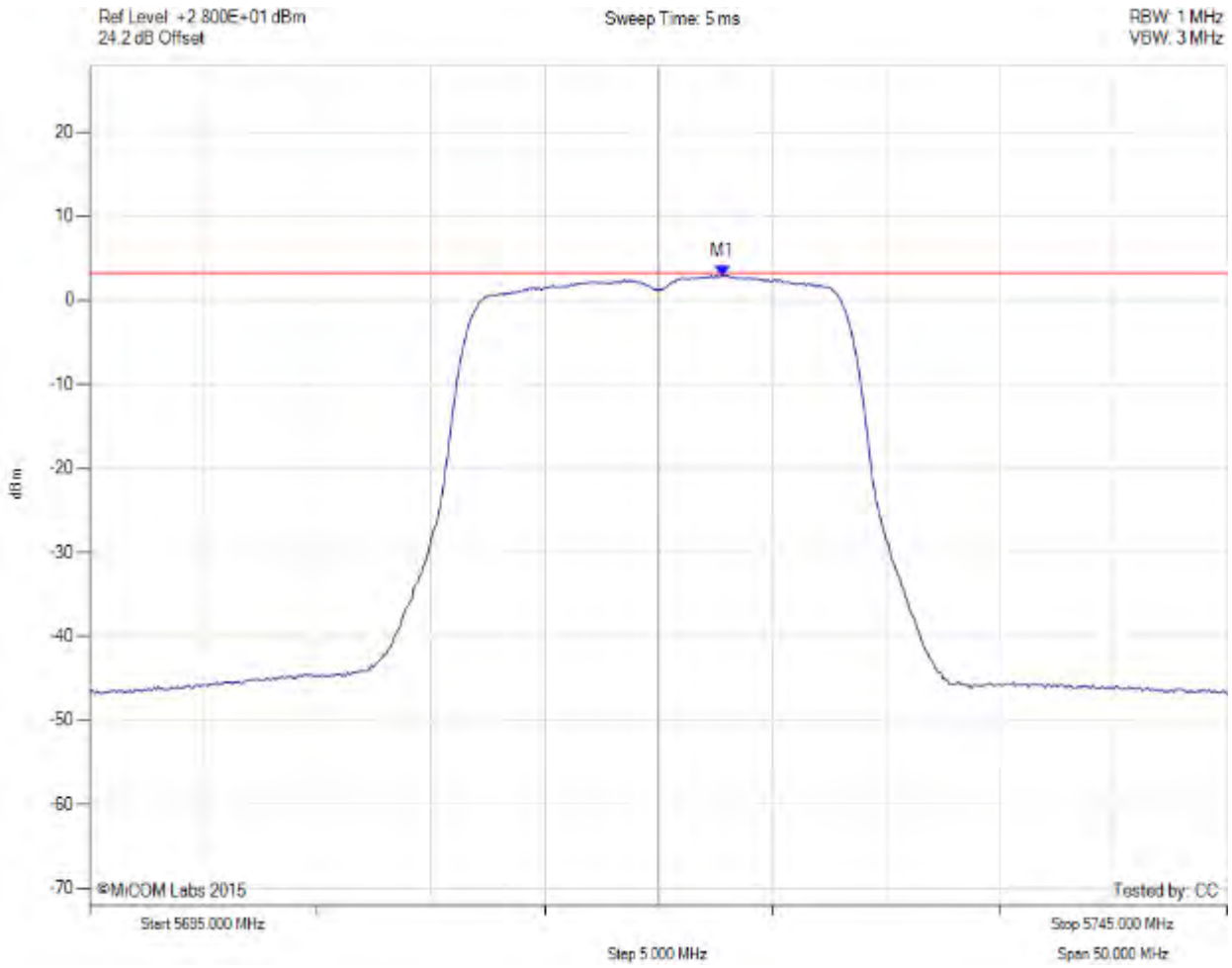


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5725.920 MHz : 2.745 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5722.830 MHz : 2.934 dBm	Limit: ≤ 3.280 dBm

back to matrix

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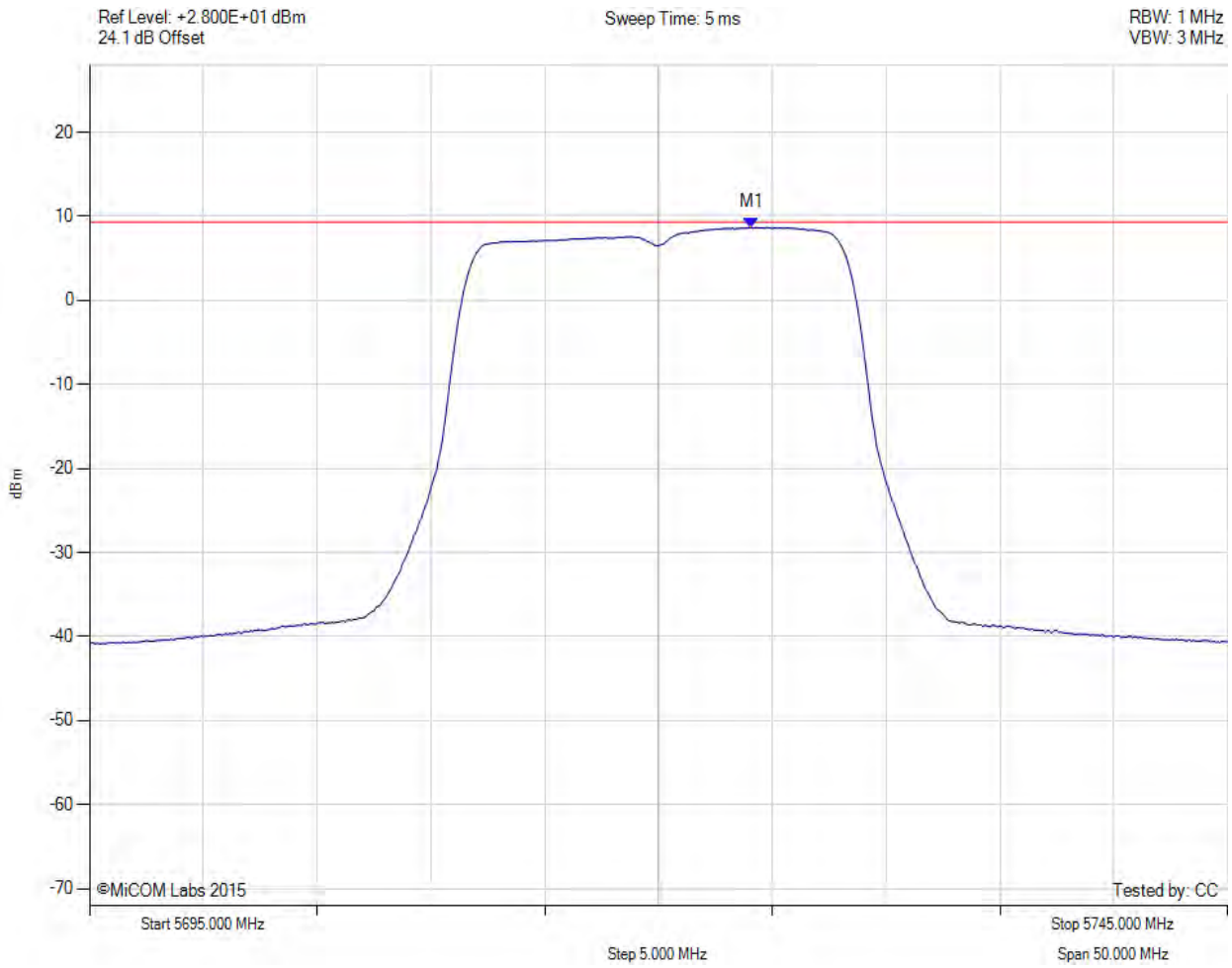
POWER SPECTRAL DENSITY

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

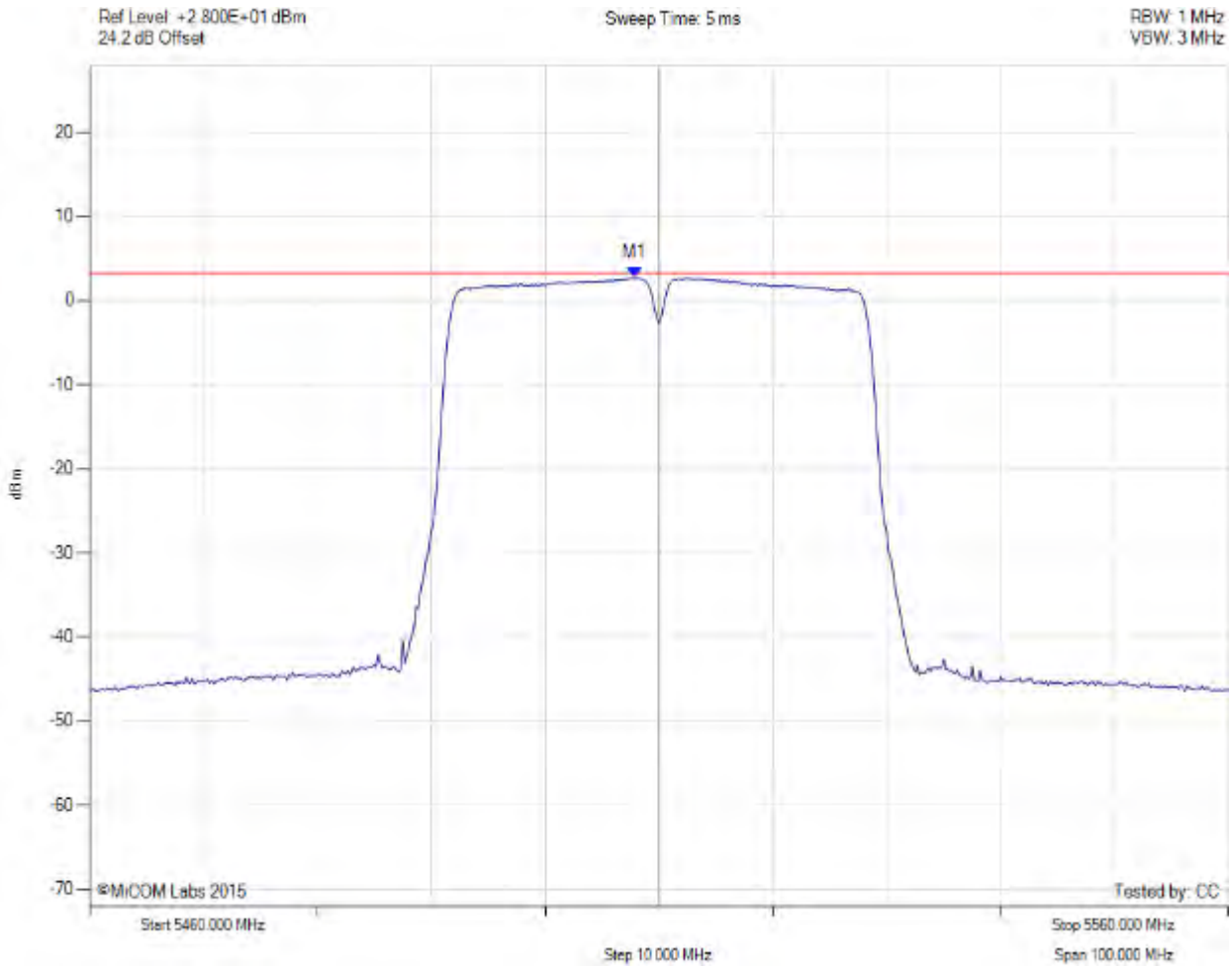


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5724.100 MHz : 8.674 dBm M1 + DCCF : 5724.100 MHz : 8.762 dBm Duty Cycle Correction Factor : +0.09 dB	Limit: ≤ 9.3 dBm Margin: -0.6 dB

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5507.830 MHz : 2.766 dBm	Limit: ≤ 3.280 dBm

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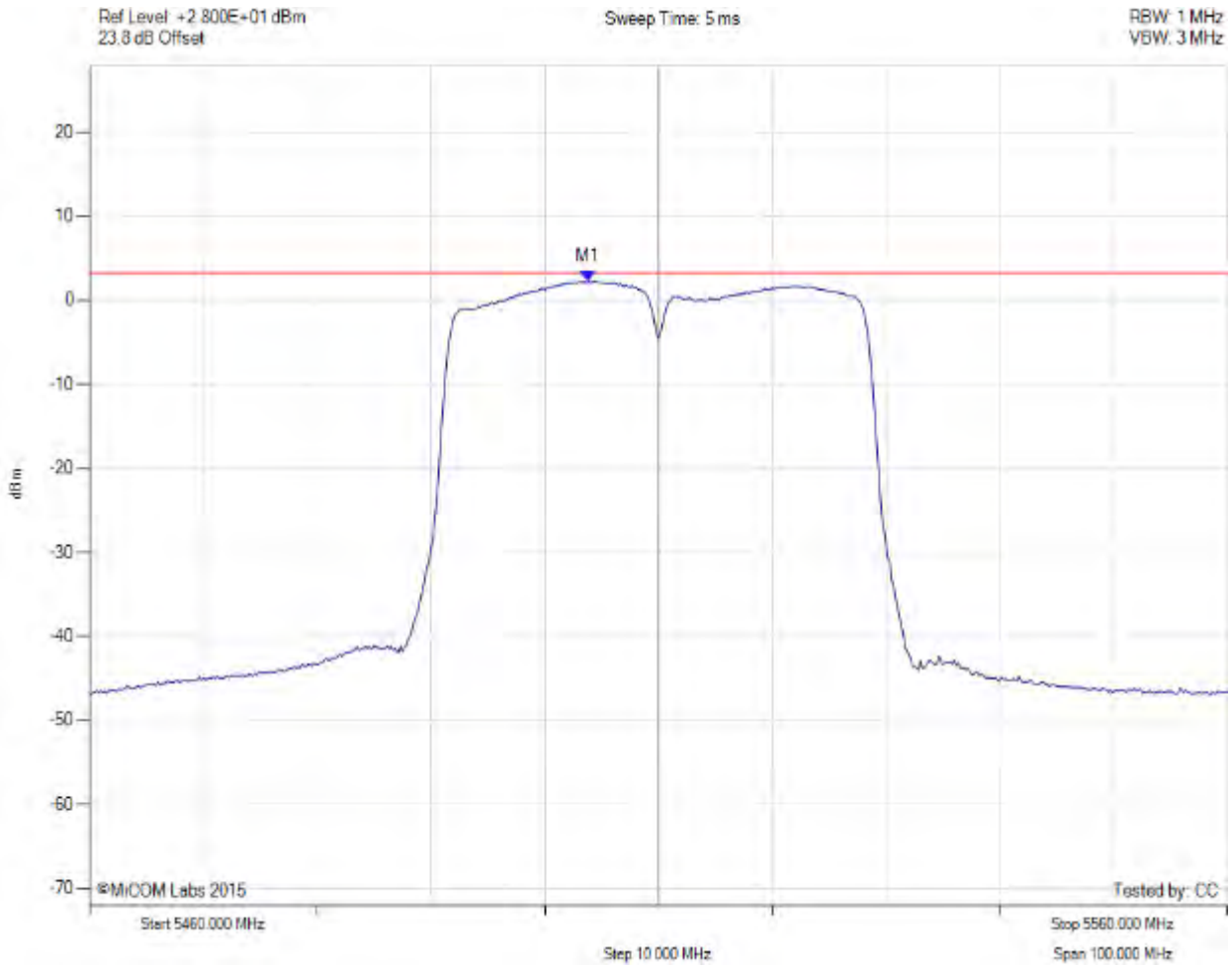
POWER SPECTRAL DENSITY

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

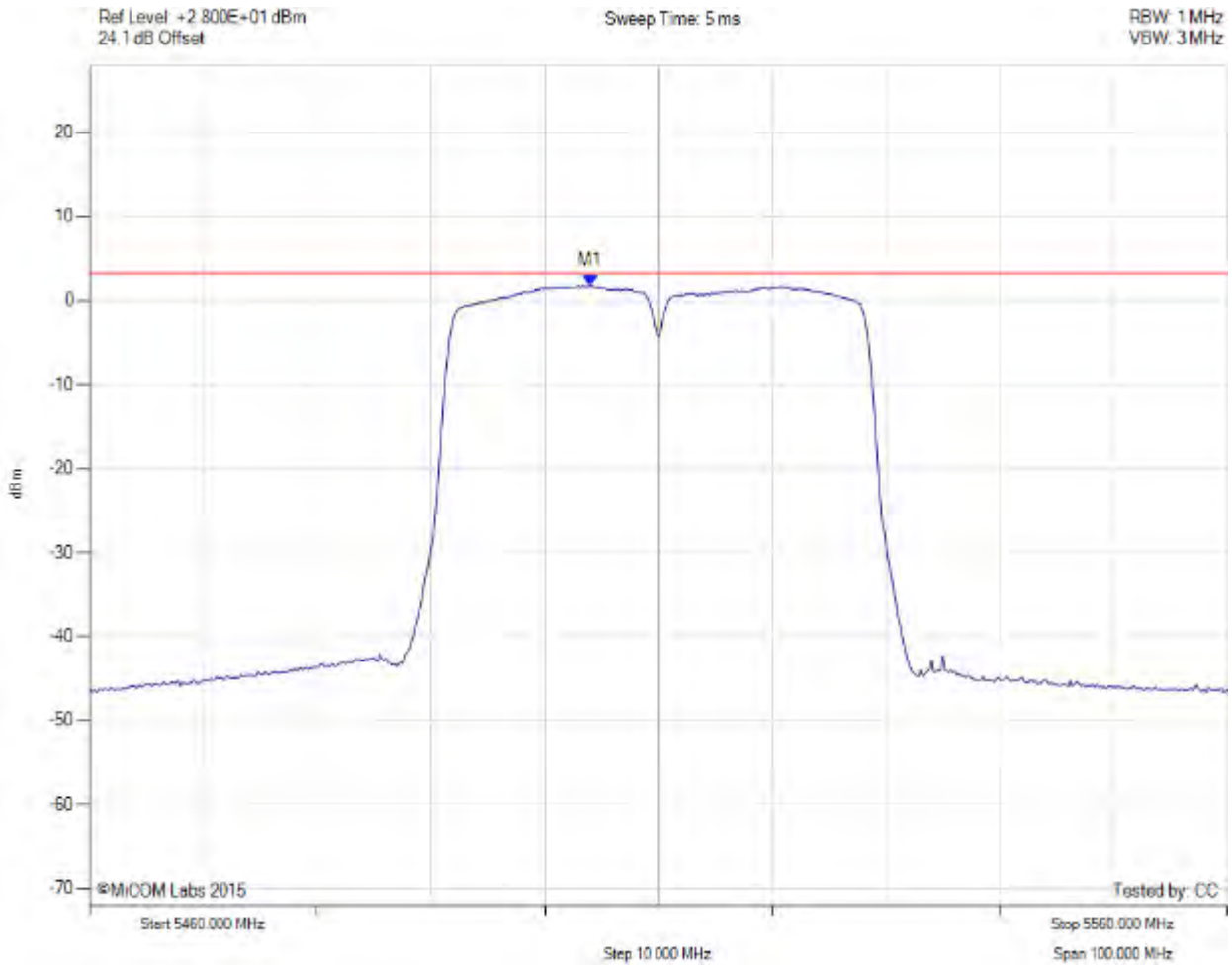


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5503.830 MHz : 2.288 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5504.000 MHz : 1.774 dBm	Limit: ≤ 3.280 dBm

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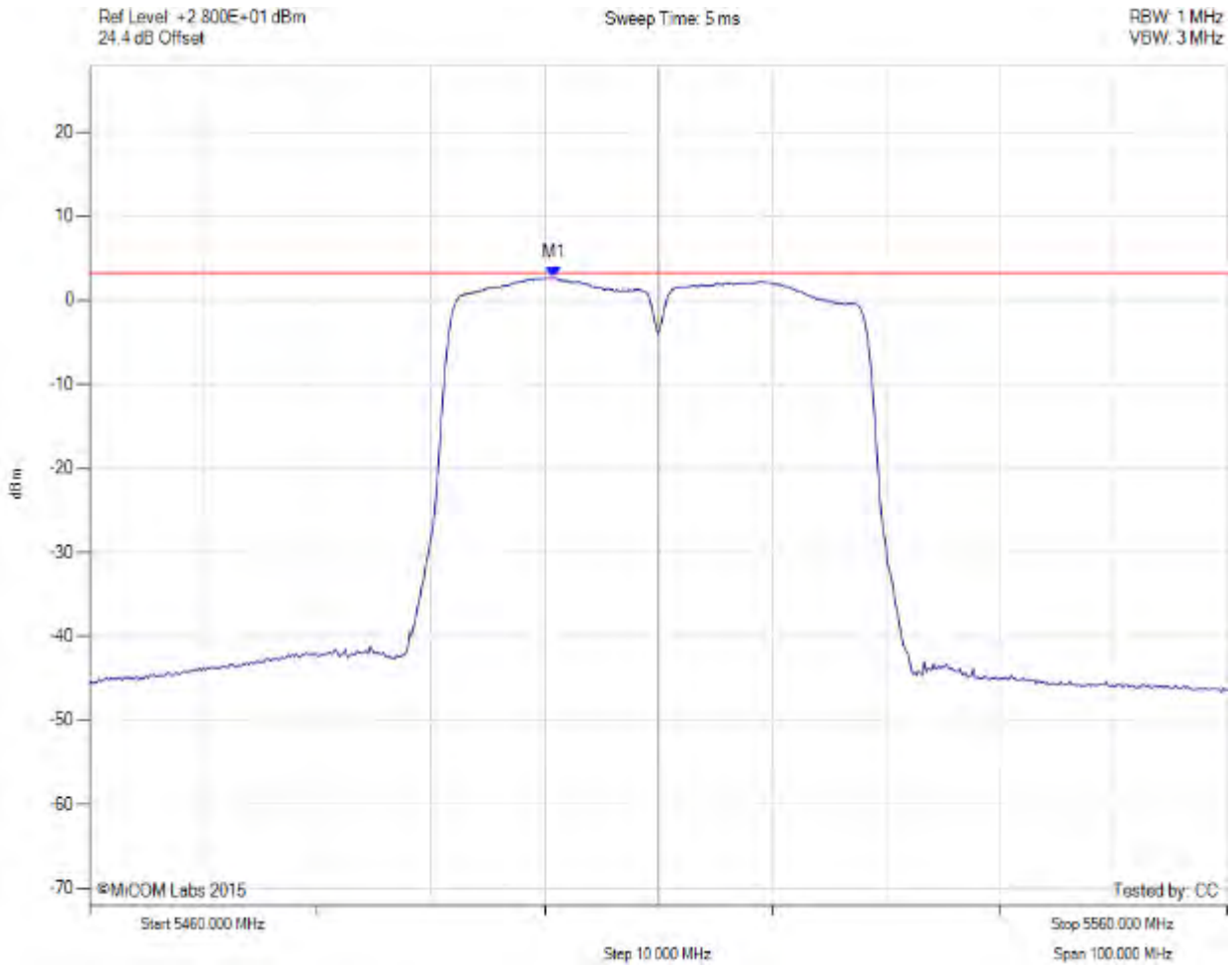
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5500.830 MHz : 2.668 dBm	Limit: ≤ 3.280 dBm

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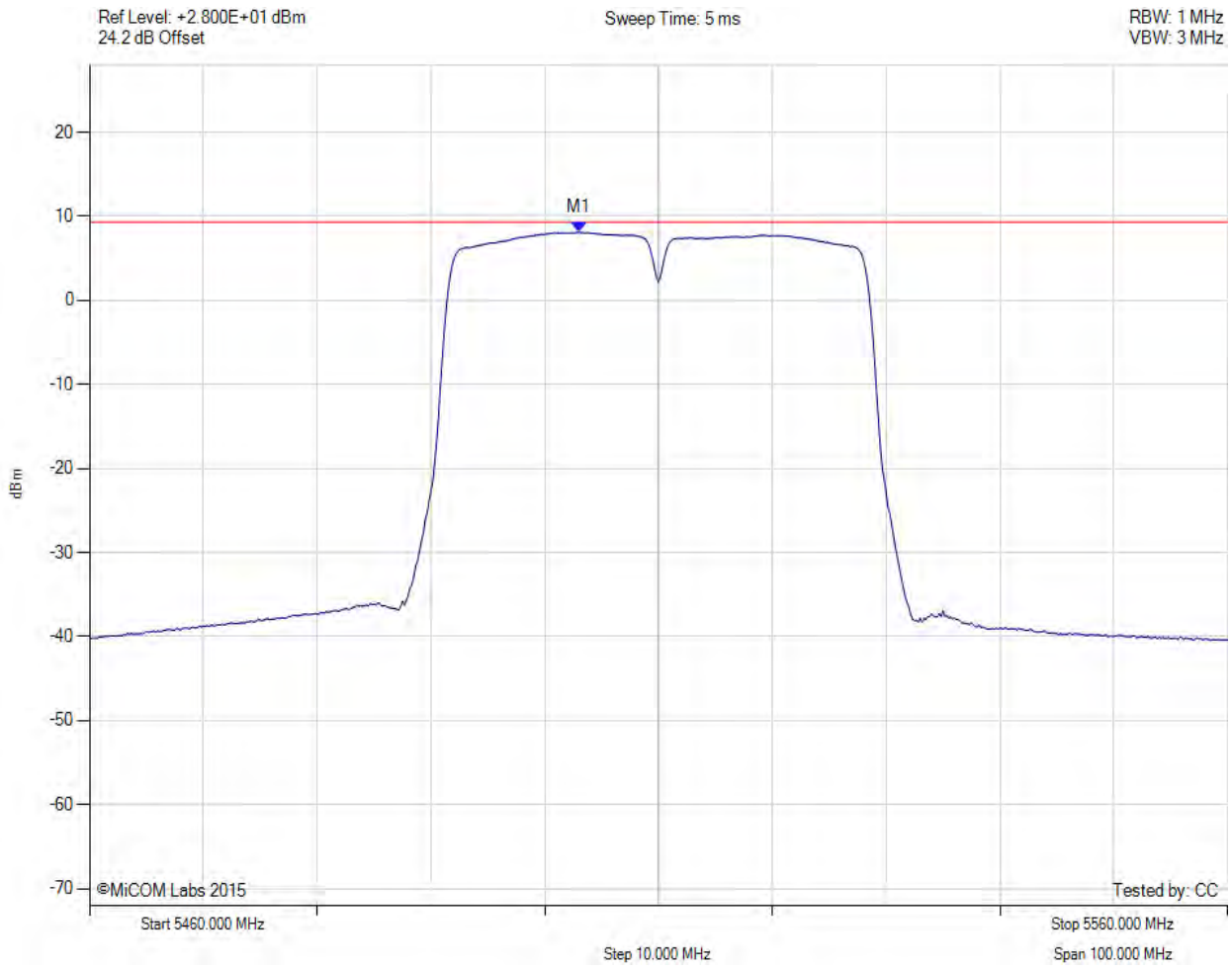
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5503.000 MHz : 8.123 dBm M1 + DCCF : 5503.000 MHz : 8.300 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -1.0 dB

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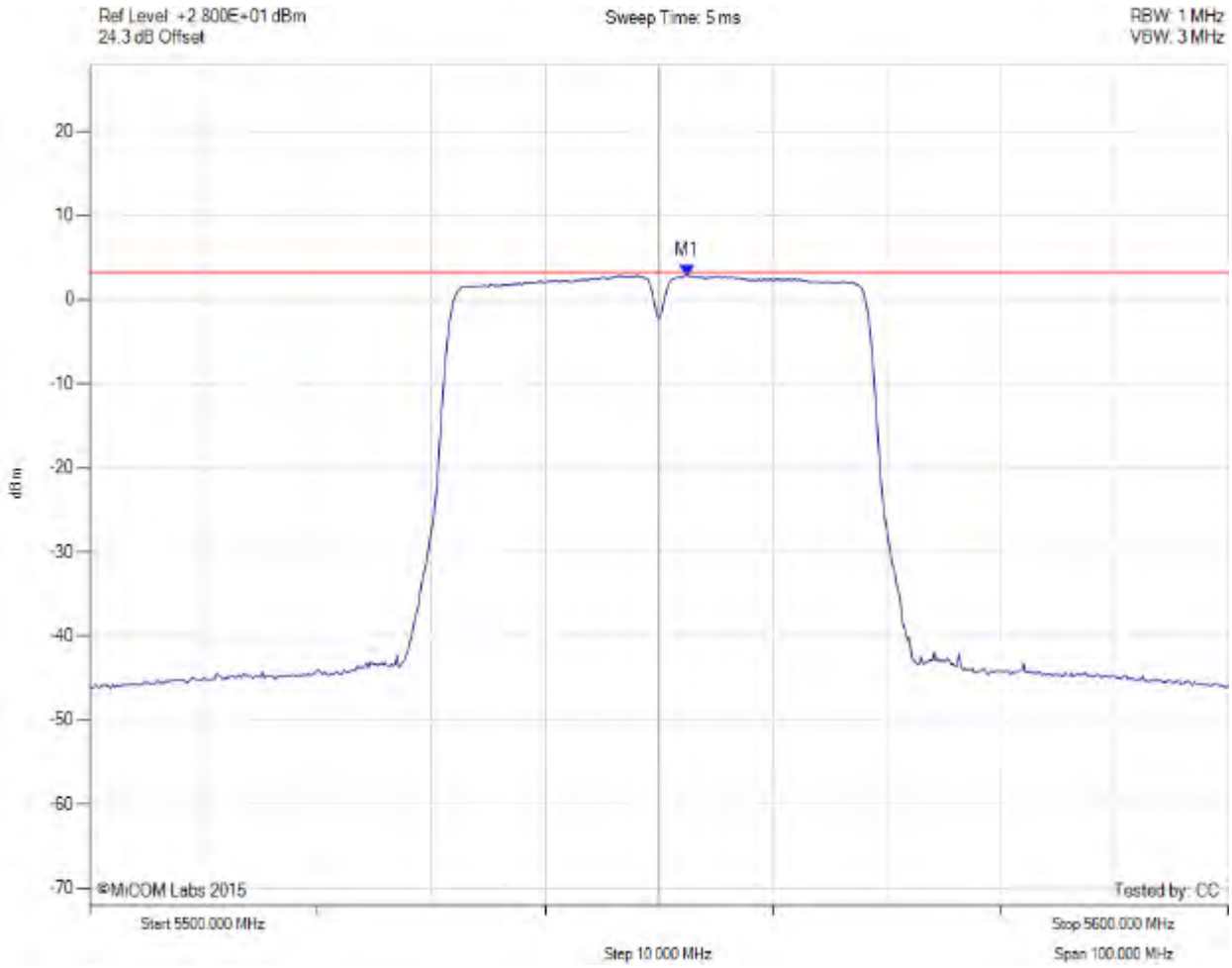
POWER SPECTRAL DENSITY

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

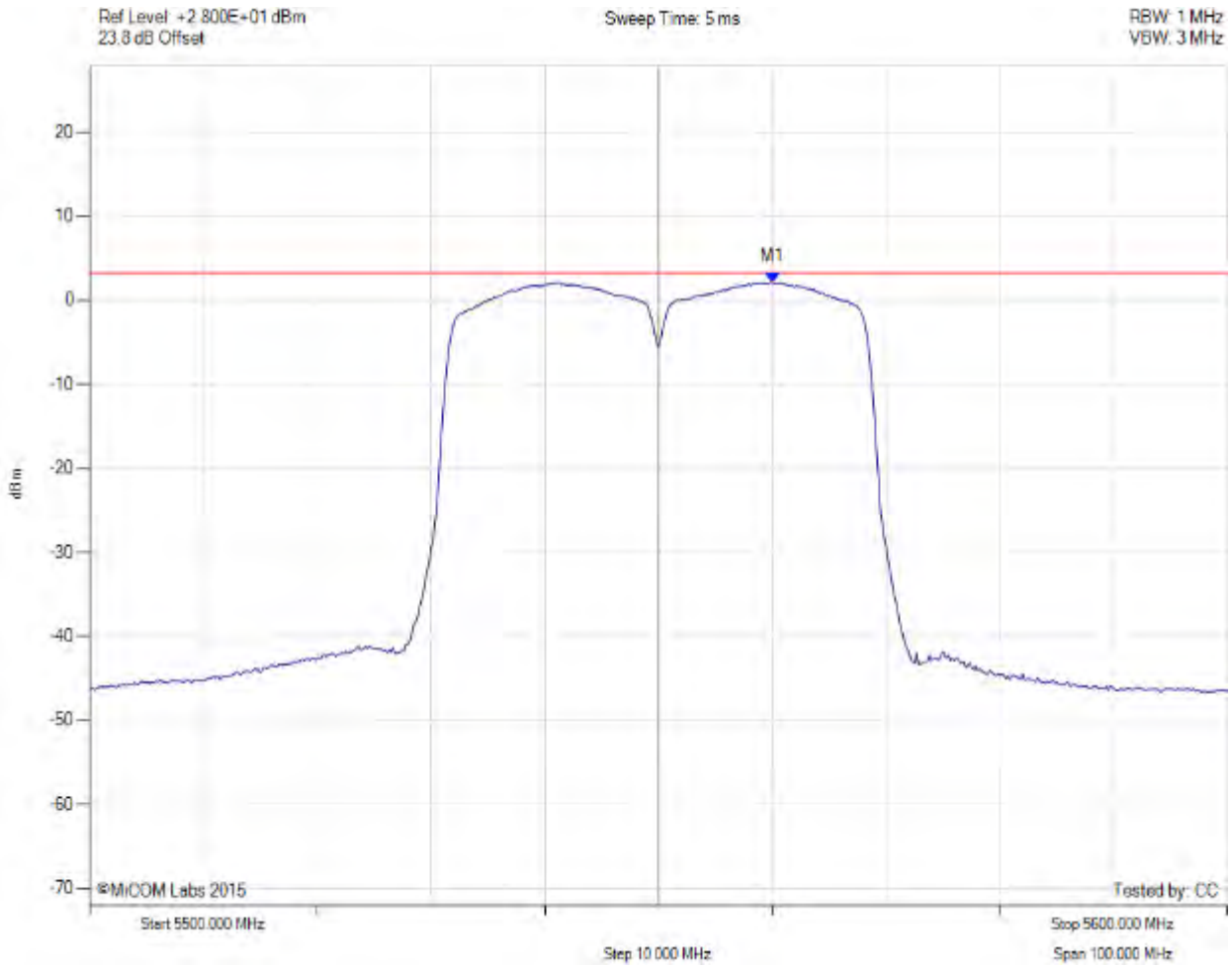


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5552.500 MHz : 2.885 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5560.000 MHz : 2.161 dBm	Channel Frequency: 5550.00 MHz

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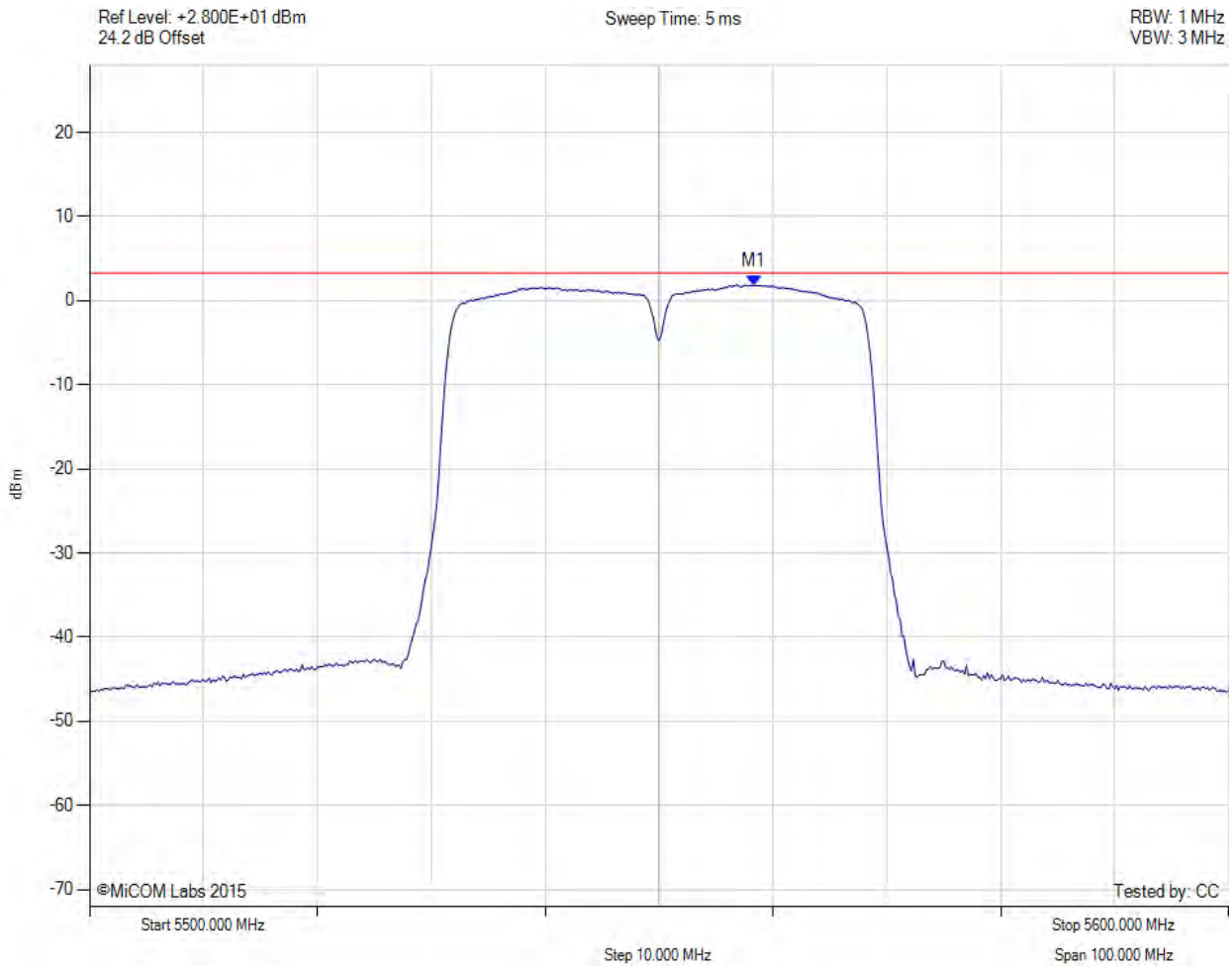
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5558.330 MHz : 1.819 dBm	Limit: ≤ 3.280 dBm

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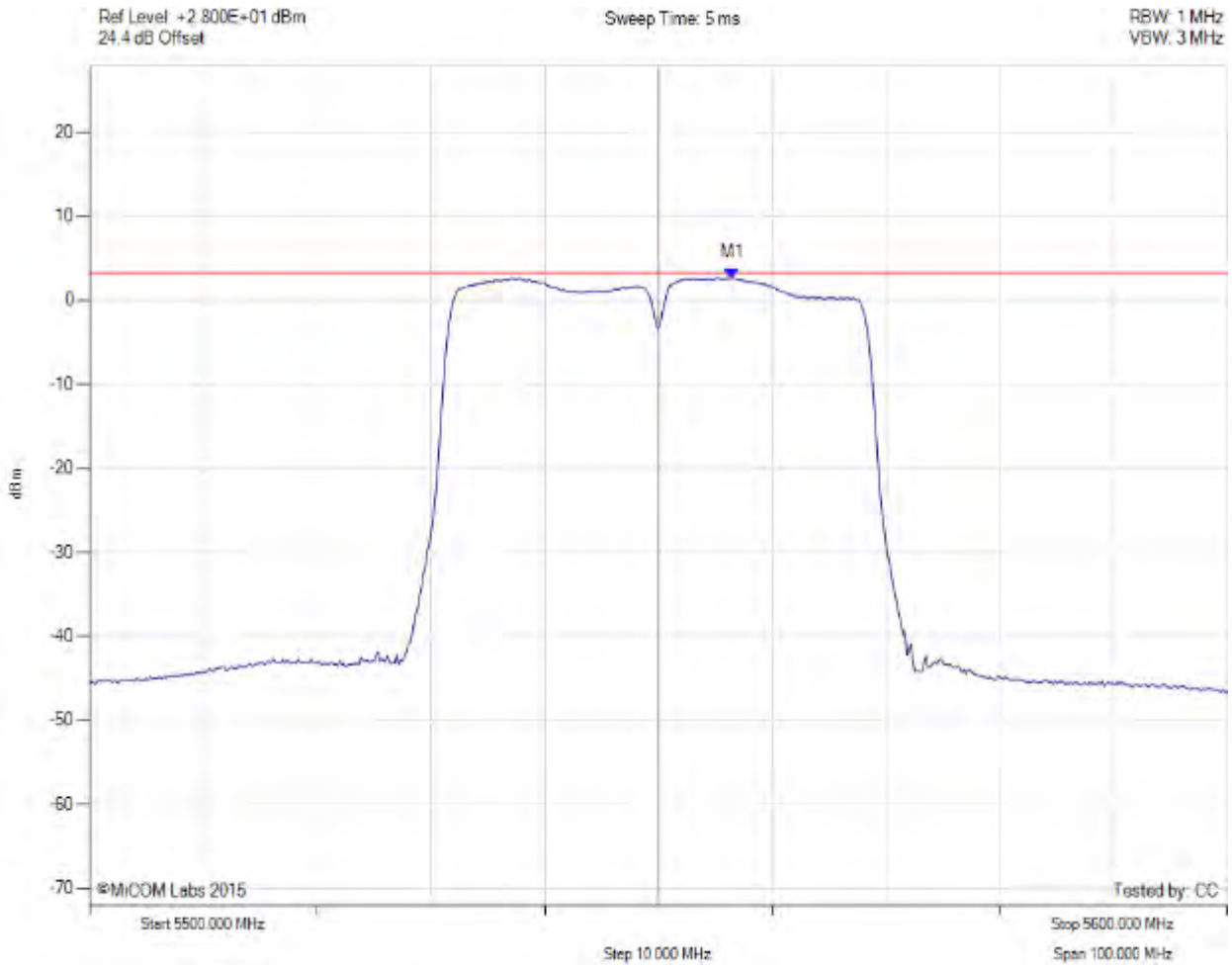
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5556.500 MHz : 2.648 dBm	Limit: ≤ 3.280 dBm

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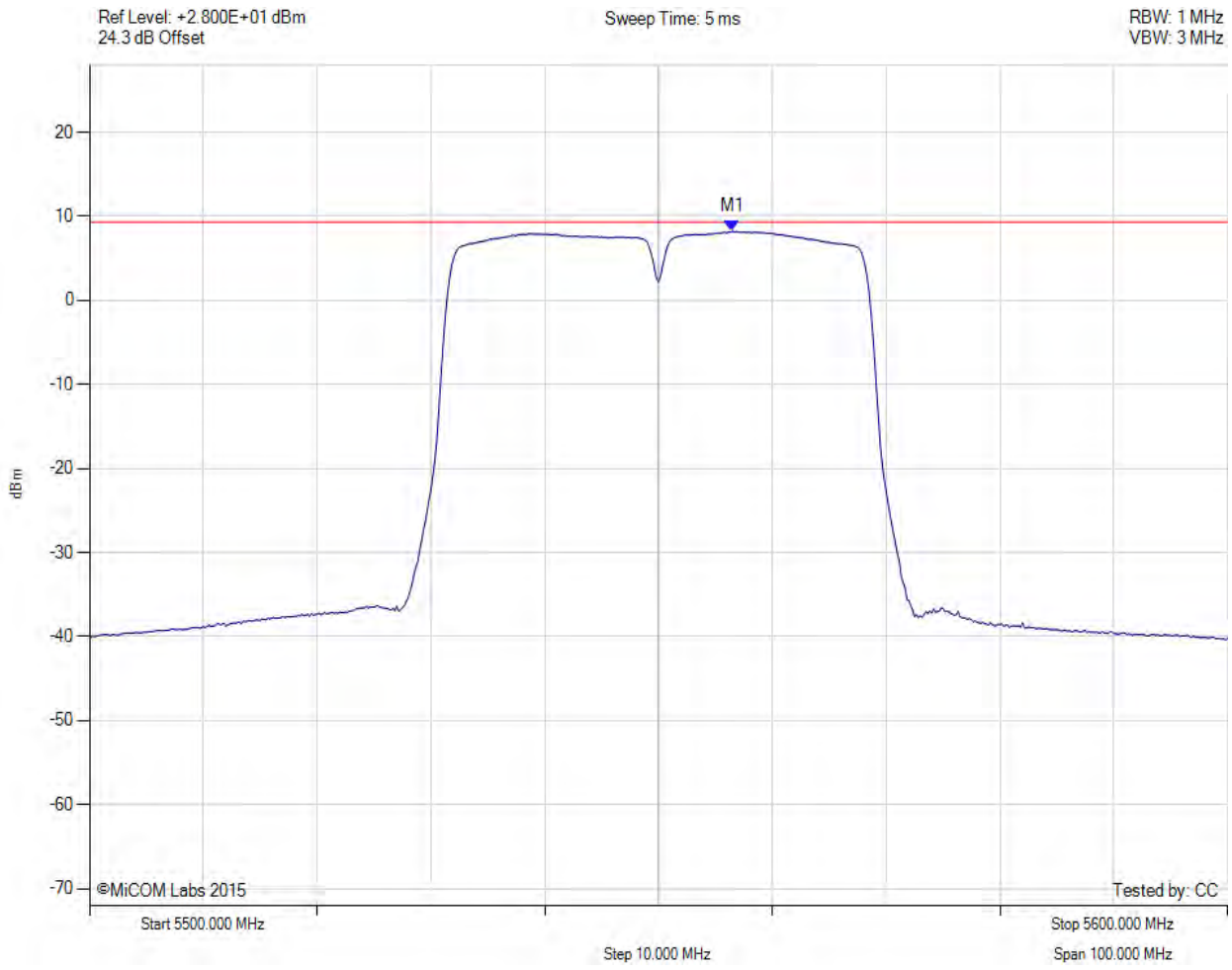
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5556.500 MHz : 8.220 dBm M1 + DCCF : 5556.500 MHz : 8.397 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -0.9 dB

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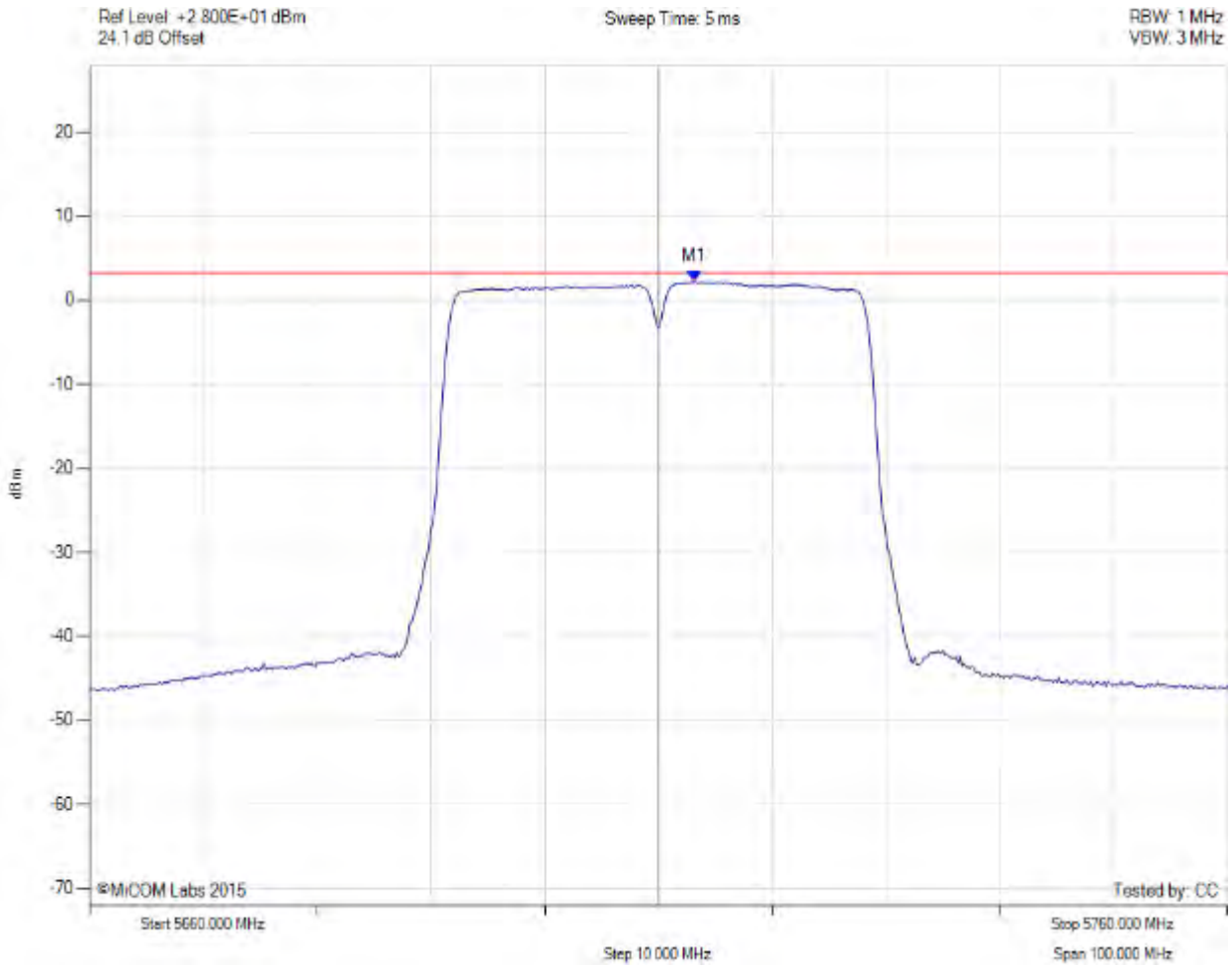
POWER SPECTRAL DENSITY

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

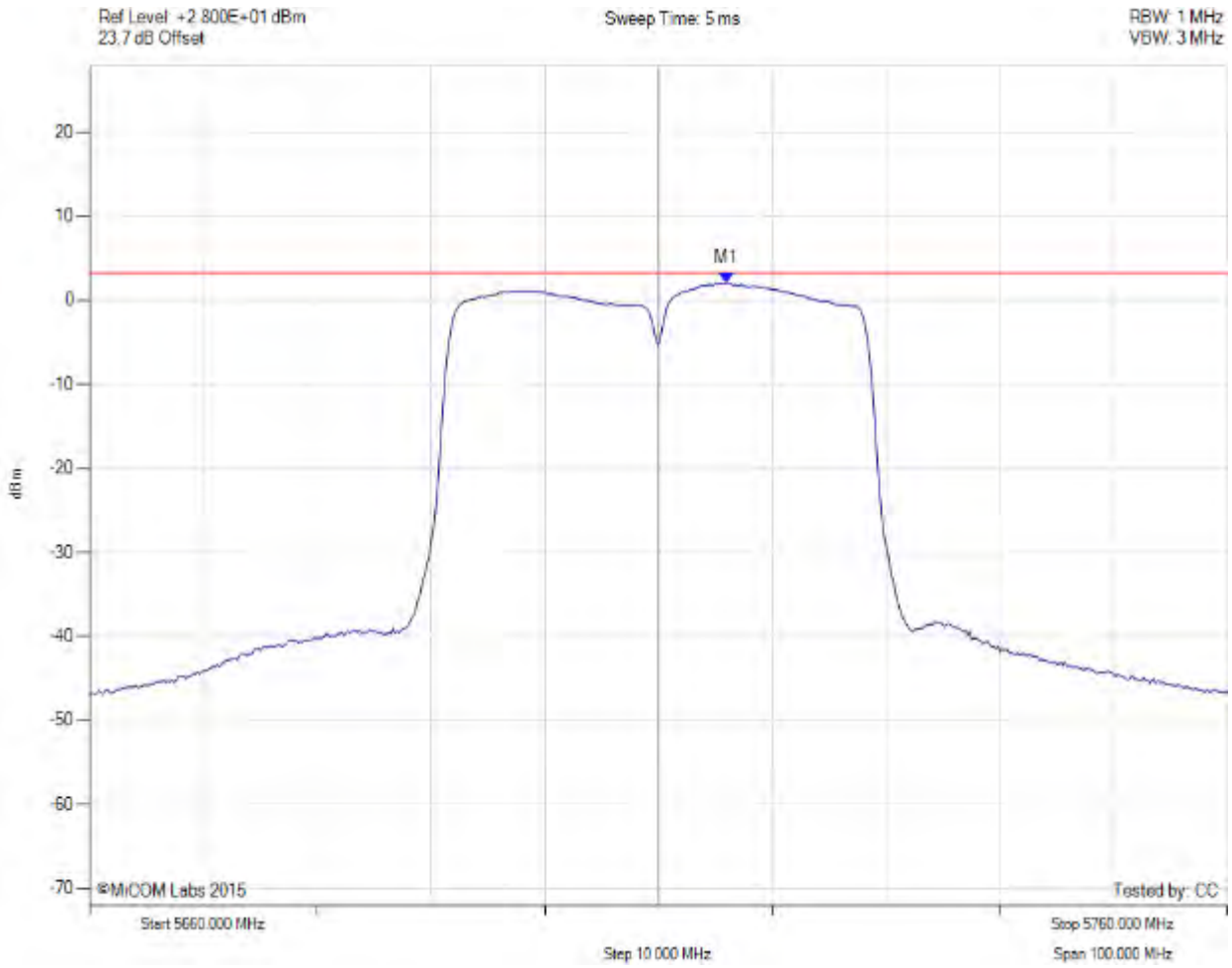


Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5713.170 MHz : 2.229 dBm	Limit: ≤ 3.280 dBm

back to matrix

POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5716.000 MHz : 2.078 dBm	Limit: ≤ 3.280 dBm

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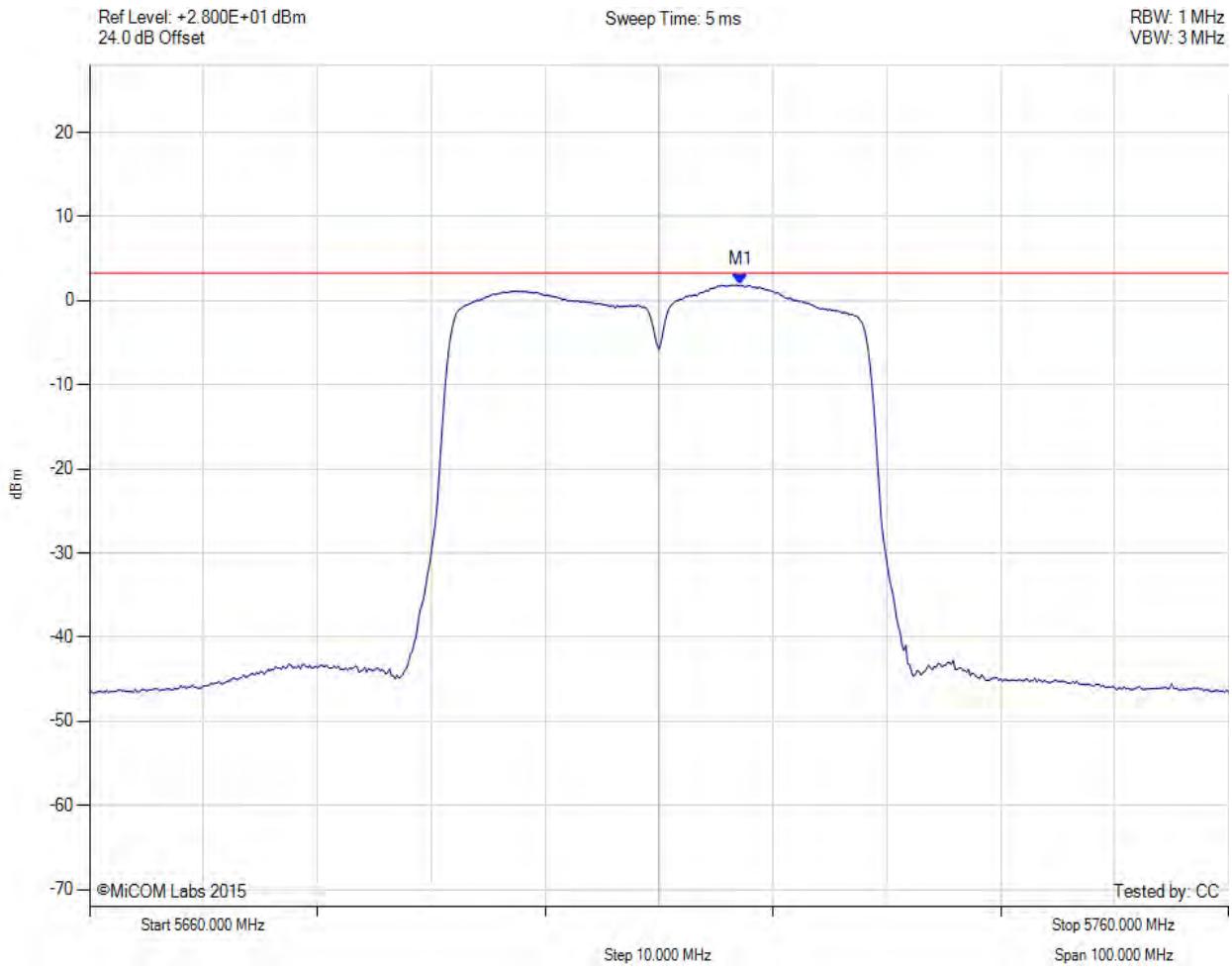
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5717.170 MHz : 1.870 dBm	Limit: ≤ 3.280 dBm

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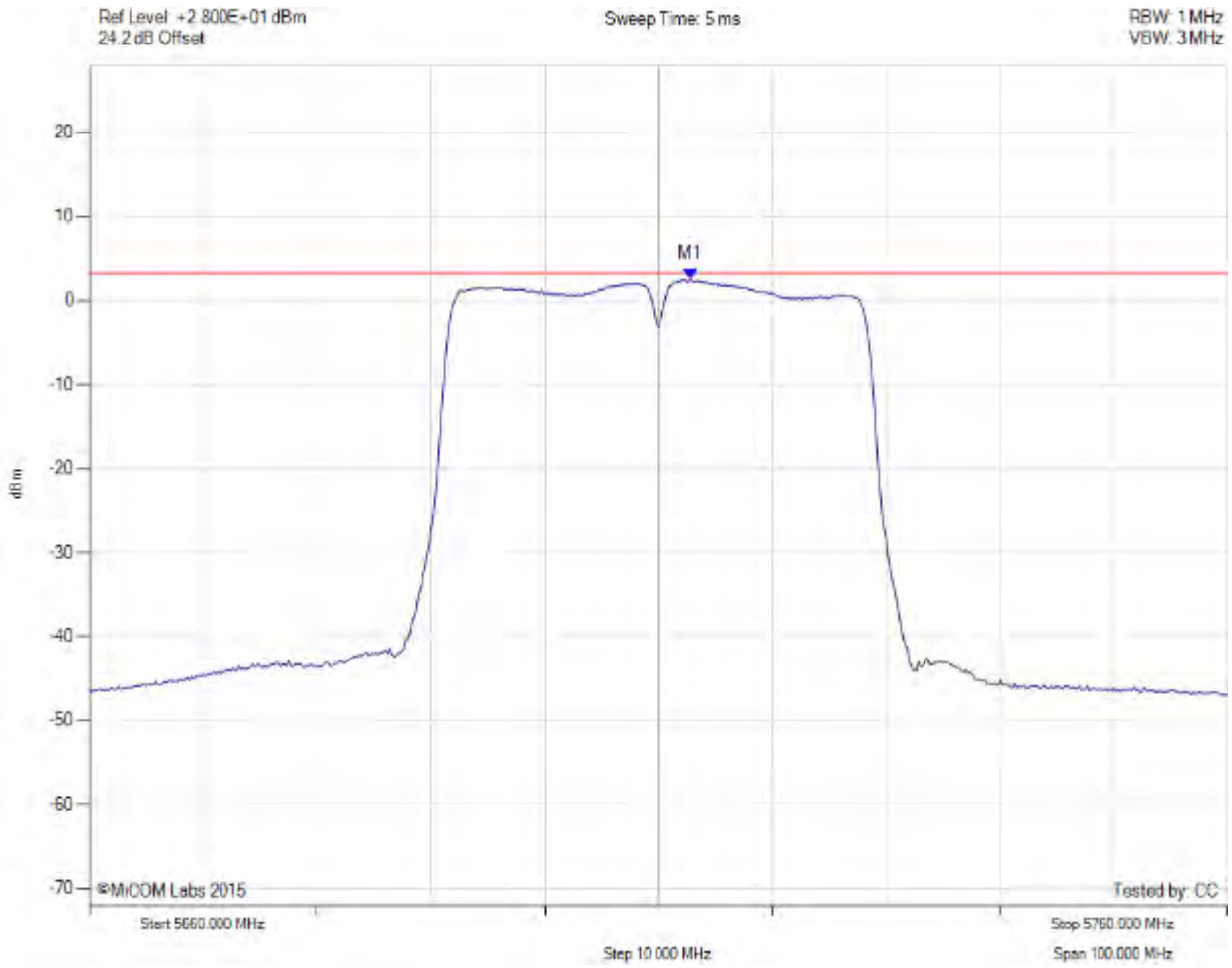
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5712.830 MHz : 2.530 dBm	Limit: ≤ 3.280 dBm

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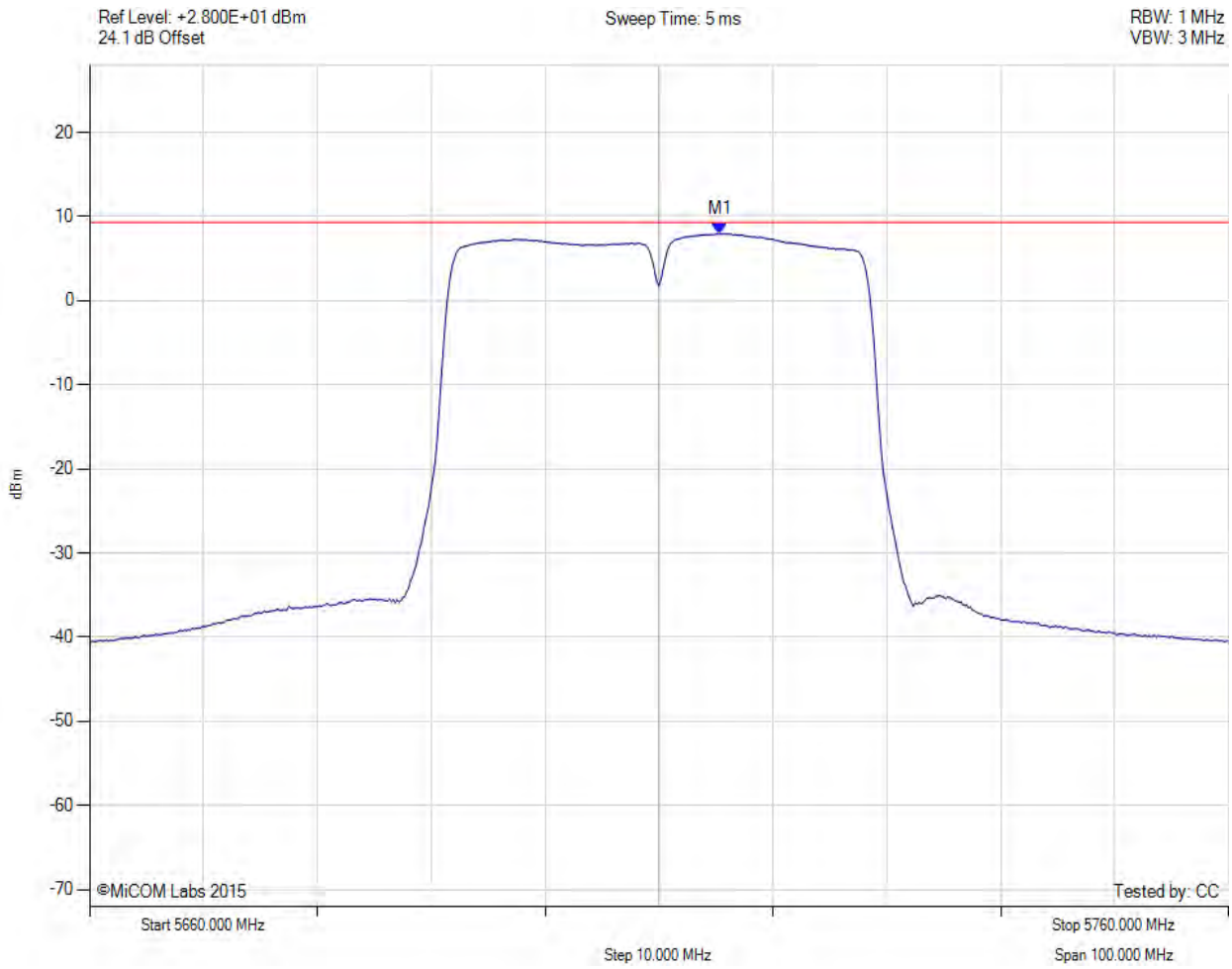
POWER SPECTRAL DENSITY

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



Analyser Setup	Marker:Frequency:Amplitude	Test Results
Detector = AVER Sweep Count = +100 RF Atten (dB) = 20 Trace Mode = VIEW	M1 : 5715.300 MHz : 7.953 dBm M1 + DCCF : 5715.300 MHz : 8.130 dBm Duty Cycle Correction Factor : +0.18 dB	Limit: ≤ 9.3 dBm Margin: -1.2 dB

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