



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

Code of Federal Regulations 47 Part 15 – Radio Frequency Devices
Subpart C – Intentional Radiators Section 15.247
Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz,
5725 - 5875 MHz, and 24.0 - 24.25 GHz.

THE FOLLOWING **MEETS THE ABOVE TEST SPECIFICATION**

Formal Name: ePMP Station 5.7GHz (or 5.2GHz or 5.4GHz) Radio
with 23dBi Panel or 30dBi Dish antenna

Kind of Equipment: Point-to-Point or Point-to-Multipoint Digital Transmission Transceiver

Frequency Range: 5740 to 5835 MHz (20 MHz bandwidth)
5750 to 5825 MHz (40 MHz bandwidth)

5270 to 5330 MHz (5.2 GHz xcvr with panel or dish antenna) reported to the FCC in report # 19892
5495 to 5705 MHz (5.4 GHz xcvr with panel or dish antenna) reported to the FCC in report # 19894

Test Configuration: Stand-alone

Model Number(s): C058900P122A (connectorized model)

Model(s) Tested: C058900P122A

Serial Number(s): ESN/MAC Address: 000456C560B4

Date of Tests: March 24 to March 31, 2014

Test Conducted For: Cambium Networks
3800 Golf Road, Suite 360
Rolling Meadows, IL 60008, USA

NOTICE: “This test report relates only to the items tested and must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government”. Please see the "Description of Test Sample" page listed inside of this report.

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Company:
Model Tested:
Report Number:
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Cambium Networks
C058900P122A
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SIGNATURE PAGE

Tested By:

A handwritten signature in black ink that reads "Craig Brandt". The signature is written in a cursive style with a long horizontal stroke at the end.

Craig Brandt
Senior Test Engineer

Reviewed By:

A handwritten signature in black ink that reads "William Stumpf". The signature is written in a cursive style with a long horizontal stroke at the end.

William Stumpf
OATS Manager

Approved By:

A handwritten signature in black ink that reads "Brian J. Mattson". The signature is written in a cursive style with a long horizontal stroke at the end.

Brian Mattson
General Manager



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Report Number: 19896
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United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 100276-0

D.L.S. Electronic Systems, Inc.
Wheeling, IL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services
listed on the Scope of Accreditation, for:*

ELECTROMAGNETIC COMPATIBILITY AND TELECOMMUNICATIONS

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



2013-10-01 through 2014-09-30

Effective dates

John R. M. L.

For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)



Company: Cambium Networks
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1.0 Summary of Test Report

It was determined that the Cambium Networks ePMP Station 5.7GHz Radio, Connectorized model: C058900P122A with 23dBi Panel or 30dBi Dish antenna added, complies with the requirements of CFR 47 Part 15 Subpart C Section 15.247.

Applicable Technical Requirements Tested:

Section	Description	Procedure	Note	Compliant?
FCC 15.247(b)(3)	Fundamental Emission Output Power – Conducted	FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 Section 9.2.3.1-AVGPM	1	Yes
FCC 15.247(e)	Maximum Power Spectral Density - Conducted	FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 Section 10.3-AVGPSD-1	1	Yes
FCC 15.247(d)	Maximum Unwanted Emission Levels – Conducted	FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 Sections 11.0, 11.2, 11.3	1	Yes
FCC 15.247(d)	Operating Band Edge Measurements - RF Conducted	FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 Section 11.0	1	Yes
FCC 15.247(d), FCC 15.205	Max Unwanted Emission Levels into Restricted Frequency Bands - Radiated	FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 Section 12.0 & 12.1	2	Yes

Note 1: RF conducted measurement.

Note 2: Radiated emission measurement.

2.0 Introduction

From March 24 through March 31, 2014 the ePMP Station 5.7GHz Radio, Model C058900P122A, as provided from Cambium Networks, was tested with a 23dBi Panel or a 30dBi Dish antenna to the requirements of CFR 47 Part 15 Subpart C Section 15.247. To meet these requirements, the procedures contained within this report were performed by personnel of D.L.S Electronic Systems, Inc.



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3.0 Test Facilities

D.L.S. Electronic Systems, Inc. is a full service EMC/Safety Testing Laboratory accredited to ISO 17025. NVLAP Certificate and Scope can be viewed at <http://www.dlsemc.com/certificate>. Our facilities are registered with the FCC, Industry Canada, and VCCI.

Wisconsin Test Facility:

D.L.S. Electronic Systems, Inc.
166 S. Carter Street
Genoa City, Wisconsin 53128

Wheeling Test Facility:

D.L.S. Electronic Systems, Inc.
1250 Peterson Drive
Wheeling, IL 60090

4.0 Description of Test Sample

Description:

Point-to-Point or Point-to-Multipoint 5.7GHz 802.11n fixed indoor/outdoor transceiver with either 20 MHz or 40 MHz channel bandwidth. OFDM modulation. This is a software defined radio. This report includes data to show compliance of the radio with a 23dBi Panel or 30dBi Dish antenna added.

Type of Equipment

Stand-Alone

Frequency Range:

5740 to 5835 MHz (20 MHz bandwidth)

5750 to 5825 MHz (40 MHz bandwidth)

5270 to 5330 MHz (5.2 GHz xcvr with panel or dish antenna) reported to the FCC in report # 19892

5495 to 5705 MHz (5.4 GHz xcvr with panel or dish antenna) reported to the FCC in report # 19894

Physical Dimensions of Equipment Under Test:

Connectorized Unit: Length: 3 in. Width: 1 in. Height: 8.5 in. (tested with Panel or Dish antenna)

Integrated Unit:: Length: 4 in. Width: 2 in. Height: 10 in. (not tested) - it is larger with an integral antenna

Power Source:

29 VDC (Power Over Ethernet to Radio)

120 Vac, 60 Hz using Power supply model: PSA-15M-300 (SM)



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Internal Frequencies:

940 - 1000 kHz (Switching Power Supply Frequency)
40 MHz, 25 MHz, 4 MHz

Transmit Frequencies Used For Test Purpose:

20 MHz Channel Bandwidth: Low channel: 5740 MHz
Middle channel: 5775 MHz
High channel: 5835 MHz

40 MHz Channel Bandwidth: Low channel: 5750 MHz
Middle channel: 5785 MHz
High channel: 5825 MHz

Power Settings noted on the test data

Type of Modulations:

OFDM: 802.11n

Description of Circuit Board(s) / Part Number:

Cambium Networks Connectorized PC Board ESN/MAC Address	00456C560B4
MARS 23dBi Panel Antenna	MA-WA56-DP23
ARC Wireless Solutions 30dBi Dish Antenna	ARC-DA5830SD1



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5.0 Test Equipment

A list of the equipment used can be found in the table below. All primary equipment was calibrated against known reference standards with a verified traceable path to NIST.

D.L.S. Wisconsin

Description	Manufacturer	Model Number	Serial Number	Frequency Range	Cal Dates	Cal Due Dates
Receiver	Rohde & Schwarz	ESI 40	837808/005	20 Hz – 40 GHz	7-23-13	7-23-14
Preamplifier	Rohde & Schwarz	TS-PR10	032001/003	9 kHz – 1 GHz	1-4-14	1-4-15
Preamp	Ciao	CA118-4010	101	1GHz-18GHz	2-14-14	2-14-15
Horn Antenna	EMCO	3115	9903-5731	1-18GHz	7-11-13	7-11-15
Filter- High-Pass	Planar	HP8G-7G8-CD-SFF	PF1225/0782	7.5GHz-18GHz	8-14-13	8-14-14
Filter- High-Pass	Planar	HP8G-7G8-CD-SFF	PF1226/0782	7.5GHz-18GHz	8-14-13	8-14-14
Preamp	Miteq	AMF-8B-180265-40-10P-H/S	438727	18GHz-26GHz	8-13-13	8-13-14
Preamp	Rohde & Schwarz	TS-PR40	052002/025	26GHz-40GHz	5-28-13	5-28-14
Horn Antenna	EMCO	3116	2549	18 – 40GHz	9-6-12	9-6-14
High Pass Filter	K & I	11SH10-18000/T40000-K-K	8	18-40GHz	3-6-14	3-6-15
20 dB attenuator	Aeroflex/weinschel	75A-20-12	1071	DC – 40 GHz	8-13-13	8-13-14
20 dB attenuator	Anritsu	42N50-20	000451	DC – 18 GHz	3-16-13	3-16-15
10 dB attenuator	Pasternack Enterprises	PE7014-10	DLS#198	DC – 18 GHz	3-16-13	3-16-15
Receiver	Rohde & Schwarz	ESI 40	837808/006	20 Hz – 40 GHz	7-23-13	7-23-14
Low Pass Filter	Mini-Circuits	VLFX-1125	RUU92600920	DC-1 GHz	8-13-13	8-13-14
Preamplifier	Rohde & Schwarz	TS-PR10	032001/004	9 kHz – 1 GHz	1-4-14	1-4-15
Antenna	EMCO	3104C	00054892	20 MHz – 200 MHz	9-13-12	9-13-14
Antenna	EMCO	3146	1205	200 MHz – 1 GHz	9-19-12	9-19-14
Thermal Power Sensor	Rohde & Schwarz	NRP-Z51	1138.0005.03-104290-Wq	DC - 18GHz	12-12-13	12-12-14



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6.0 Test Arrangements

Radiated Emissions Measurement Arrangement:

All radiated emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to FCC KDB 558074 D01 DTS Meas Guidance v03r01 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for photos of the test set up.

Unless otherwise noted, the bandwidth of the measuring receiver / analyzer used during testing is shown below.

Frequency Range	Bandwidth (-6 dB)
10 to 150 kHz	200 Hz
150 kHz to 30 MHz	9 kHz
30 MHz to 1 GHz	120 kHz
Above 1 GHz	1 MHz

RF Conducted Emissions Measurement Arrangement:

All RF conducted emission measurements were performed at D.L.S. Electronic Systems, Inc. and set up according to FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 and ANSI C63.10-2009, unless otherwise noted. Description of procedures and measurements can be found in Appendix B – Measurement Data. See Appendix A for photos of the test set up.

7.0 Test Conditions

Normal Test Conditions:

Temperature and Humidity:

68°F at 32% RH (or as noted)

Supply Voltage:

29 VDC (Power Over Ethernet to Radio)

120 Vac, 60 Hz using Power supply model: PSA-15M-300 (SM)



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8.0 Modifications Made To EUT for Compliance

None noted at time of test.

9.0 Additional Descriptions

Testing was performed at low, mid, and high channels over 2 modulation bandwidths (20MHz & 40MHz). The antenna ports were tested (Channel 0 & 1) using the connectorized model attached to either the 23dBi Panel or 30dBi Dish antenna. Worst case emissions were recorded.

Emission Designators: 20M0x1D, 40M0x1D

Power Settings noted on the test data.

10.0 Results

Measurements were performed in accordance with FCC Publication KDB 558074 D01 DTS Meas Guidance v03r01 and ANSI C63.10-2009. Graphical and tabular data can be found in Appendix B at the end of this report.

11.0 Conclusion

The ePMP Station 5.7GHz Radio, Model C058900P122A with either the 23dBi Panel or 30dBi Dish antenna, as provided from Cambium Networks tested from March 24 to March 31, 2014 **meets** the requirements of CFR 47 Part 15 Subpart C Section 15.247.



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Appendix A – Test Photos

Photo Information and Test Setup:

- Item0: Cambium Networks ePMP Station 5.7 GHz OFDM MIMO Radio, Model C058900P122A
- Item1: Unshielded CAT 5e POE Cable - 1.5 meters long
- Item2: Unshielded CAT 5e Ethernet Cable - not terminated - 8 meters long
- Item3: Phihong Power Supply PSA-15M-300(SM)
- Item4: MARS model MA-WA56-DP23 4.9-6.1 GHz 23 dBi Panel antenna, SN: 5111 or ARC Wireless Solutions model ARC-DA5830SD1 4.94-5.875 GHz 30 dBi Dish antenna, SN: none

Radiated - Below 1 GHz - Front - with 23dBi Panel Antenna





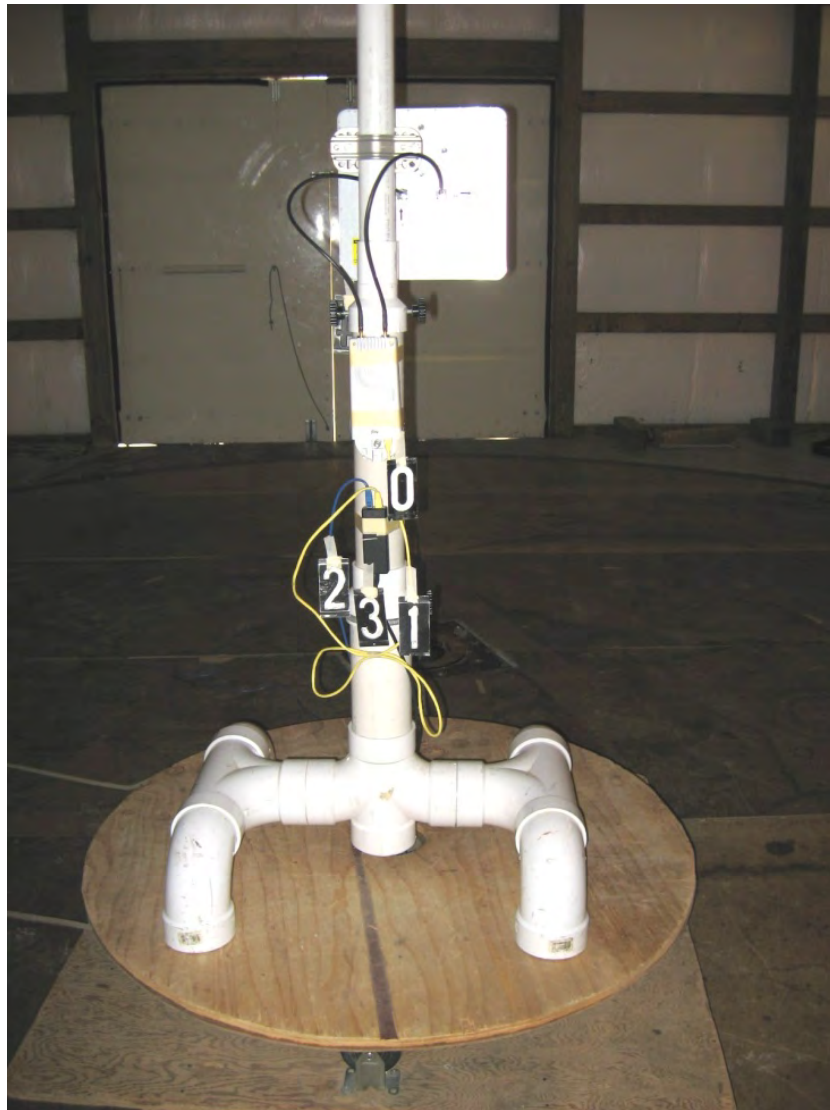
Company:
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Appendix A – Test Photos

Radiated - Below 1 GHz - with 23dBi Panel Antenna





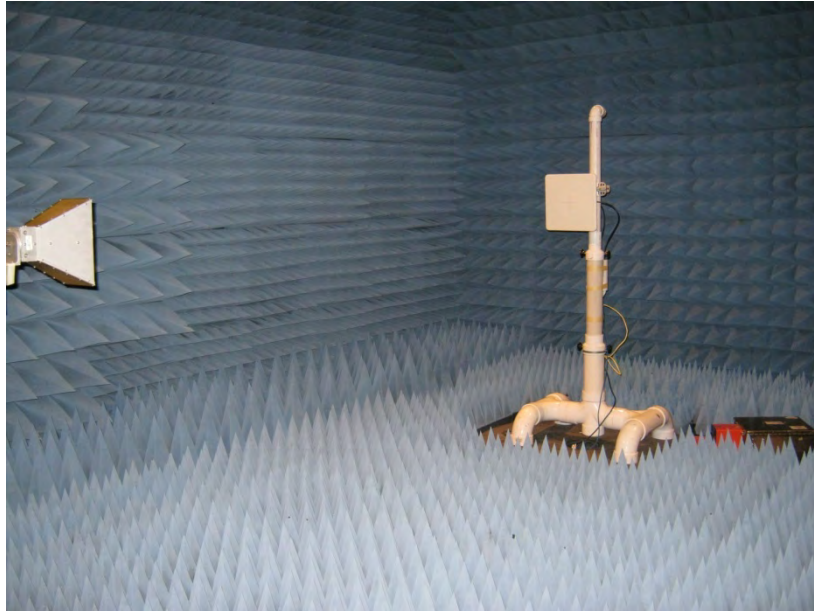
Company:
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Appendix A – Test Photos

Radiated - Above 1 GHz - Front & Side - with 23dBi Panel Antenna





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Appendix A – Test Photos

Radiated - Below 1 GHz - Front - with 30dBi Dish Antenna





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Appendix A – Test Photos

Radiated - Below 1 GHz - Back - with 30dBi Dish Antenna





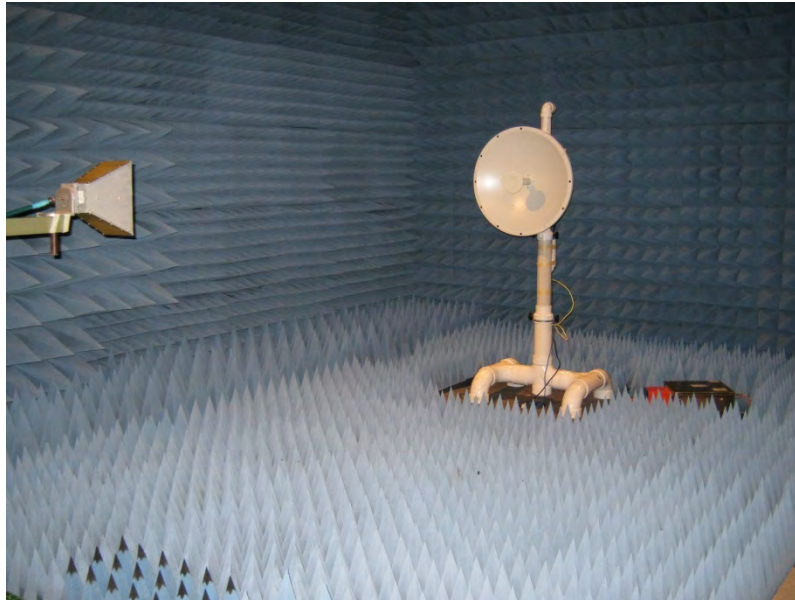
Company:
Model Tested:
Report Number:
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Appendix A – Test Photos

Radiated - Above 1 GHz - Front & Side - with 30dBi Dish Antenna





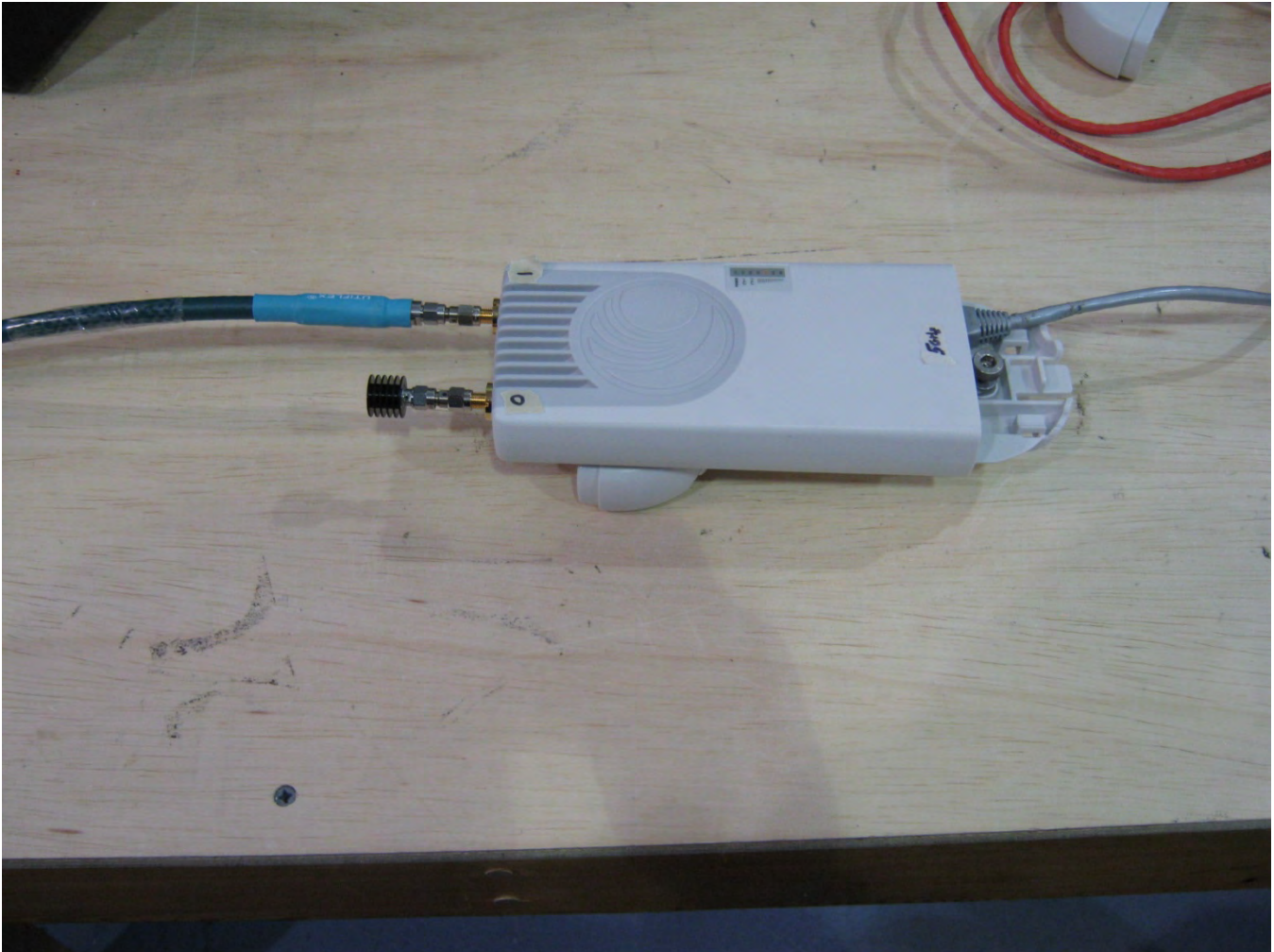
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Appendix A – Test Photos

RF Conducted





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Appendix B – Measurement Data

B1.0 Fundamental Emission Output Power - Conducted

Rule Section: Section 15.247(b)(3)

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – *Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247*

Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)

Description: As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent.

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Limit: Point-to-Point mode: 15.247(b)(3) and (4)(ii): 1 Watt (30 dBm) for 30 dBi Dish and 23 dBi Panel antennas
Point-to-Multipoint mode: 15.247(b)(3) and(4):
30 dBi Dish antenna: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted
Point-to-Multipoint mode: 15.247(b)(3) and(4):
23 dBi Panel antenna: 30 dBm (1 Watt) – 17 dB (antenna gain is 17 dB greater than the 6 dB allowed) = 13 dBm conducted

Results: Passed

Notes: Tested output port 1 only as it was determined to be worst case from previous testing of this device (original certification).



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**For the data showing the
Point-to-Point
compliance for both the
20MHz & 40MHz Channel Bandwidths
with the Panel Antenna**

**See the Point-to-Point data
with the Dish Antenna
on the following pages.**

The same power settings are used.

Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: 1; Low Channel Frequency: 5.740 GHz
Output power setting: 28.5; Modulation BW: 20 MHz
Operating Mode: Point-to-Point Antenna Gain = 30 dBi

Limit: [15.247]: 30 dBm (1 Watt) conducted

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. $= 10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.98 dBm + 3 dB (MIMO)
= 29.28 dBm



Operator:	Craig B		
Comments:	Output port: 1;	Mid Channel Frequency:	5.775 GHz
	Output power setting: 28.5	Modulation BW:	20MHz
	Operating Mode: Point-to-Point	Antenna Gain =	30 dBi

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log (N)$ dB, where N is the number of outputs. = $10 \log (2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.98 dBm + 3 dB (MIMO)
= 29.98 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; High Channel Frequency: 5.835 GHz
Output power setting: 28.5 dBm Modulation BW: 20MHz
Operating Mode: Point-to-Point Antenna Gain = 30 dBi

Limit: [15.247]: 30 dBm (1 Watt) conducted

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. $= 10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.96 dBm + 3 dB (MIMO)
= 29.96 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1 Low Channel Frequency: 5.750 GHz
Output power setting: 28.5 dBm Modulation BW: 40 MHz
Operating Mode: Point-to-Point Antenna Gain = 30 dBi

Limit: [15.247]: 30 dBm (1 Watt) conducted

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. $= 10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.97 dBm + 3 dB (MIMO)
= 29.97 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; Mid Channel Frequency: 5.785 GHz
Output power setting: 28.5 dBm Modulation BW: 40 MHz
Operating Mode: Point-to-Point Antenna Gain = 30 dBi

Limit: [15.247]: 30dBm (1 Watt) conducted

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. $= 10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.85 dBm + 3 dB (MIMO)
= 29.85 dBm



Operator:	Craig B		
Comments:	Output port: Channel 1;	High Channel Frequency: 5.825 GHz	
	Output power setting: 28.5 dBm	Modulation BW: 40 MHz	
	Operating Mode: Point-to-Point	Antenna Gain = 30 dBi	

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log (N)$ dB, where N is the number of outputs. = $10 \log (2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 26.98 dBm + 3 dB (MIMO)
= 29.98 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; Low Channel Frequency: 5.740 GHz
Output power setting: 10.0; Modulation BW: 20 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 23 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 17 dB (antenna gain is 17 dB greater than the 6 dB allowed) = 13 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 9.98 dBm + 3 dB (MIMO)
= 12.98 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; High Channel Frequency: 5.835 GHz
Output power setting: 10.0; Modulation BW: 20 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 23 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 17 dB (antenna gain is 17 dB greater than the 6 dB allowed) = 13 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 9.99 dBm + 3 dB (MIMO)
= 12.99 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; Low Channel Frequency: 5.750 GHz
Output power setting: 10.5; Modulation BW: 40 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 23 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 17 dB (antenna gain is 17 dB greater than the 6 dB allowed) = 13 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 9.97 dBm + 3 dB (MIMO)
= 12.97 dBm



Operator:	Craig B		
Comments:	Output port: Channel 1;	Mid Channel Frequency: 5.785 GHz	
	Output power setting: 10.0;	Modulation BW: 40MHz	
	Operating Mode: Point-to-Multipoint	Antenna Gain = 23 dBi	

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log (N)$ dB, where N is the number of outputs. = $10 \log (2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 9.99 dBm + 3 dB (MIMO)
= 12.99 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; High Channel Frequency: 5.825 GHz
Output power setting: 10.0; Modulation BW: 40 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 23 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 17 dB (antenna gain is 17 dB greater than the 6 dB allowed) = 13 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 9.99 dBm + 3 dB (MIMO)
= 12.99 dBm



Operator:	Craig B		
Comments:	Output port: Channel 1;	Low Channel Frequency: 5.740 GHz	
	Output power setting: 1.0;	Modulation BW: 20 MHz	
	Operating Mode: Point-to-Multipoint	Antenna Gain = 30 dBi	

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log (N)$ dB, where N is the number of outputs. = $10 \log (2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.97 dBm + 3 dB (MIMO)
= 5.97 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: 1; Mid Channel Frequency: 5.775 GHz
Output power setting: 1.0; Modulation BW: 20 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 30 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.99 dBm + 3 dB (MIMO)
= 5.99 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)

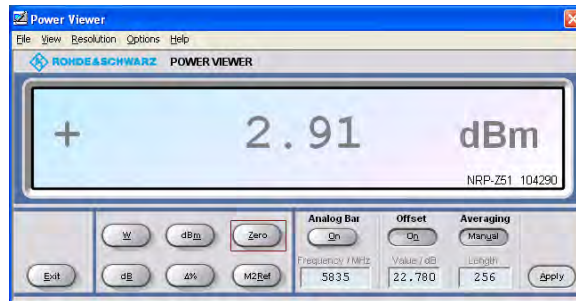
Operator: Craig B

Comments: Output port: Channel 1; High Channel Frequency: 5.835 GHz
Output power setting: 1.0; Modulation BW: 20 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 30 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.91 dBm + 3 dB (MIMO)
= 5.91 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; Low Channel Frequency: 5.750 GHz
Output power setting: 1.0; Modulation BW: 40 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 30 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.98 dBm + 3 dB (MIMO)
= 5.98 dBm

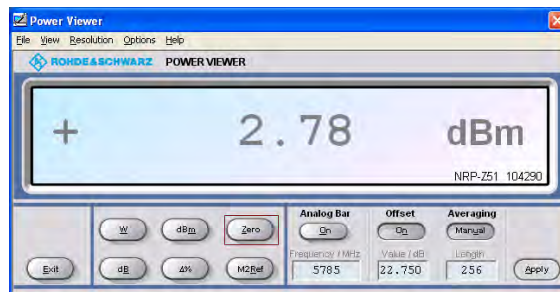


Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)
Operator: Craig B
Comments: Output port: Channel 1; Mid Channel Frequency: 5.785 GHz
Output power setting: 1.0; Modulation BW: 40MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 30 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.78 dBm + 3 dB (MIMO)
= 5.78 dBm



Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: AVERAGE Fundamental Emission Output Power – Conducted
Procedure: FCC KDB D01 DTS Meas Guidance v03r01
Section 9.2.3.1 – AVGPM (Measurement using an RF average power meter with a thermocouple detector)

Operator: Craig B

Comments: Output port: Channel 1; High Channel Frequency: 5.825 GHz
Output power setting: 1.0; Modulation BW: 40 MHz
Operating Mode: Point-to-Multipoint Antenna Gain = 30 dBi

Limit: [15.247(b)(3)]: 30 dBm (1 Watt) – 24 dB (antenna gain is 24 dB greater than the 6 dB allowed) = 6 dBm conducted.

MIMO MATRIX A: Measure-and-sum technique for MIMO with Cross-Polarized antenna: Measure and add $10 \log(N)$ dB, where N is the number of outputs. = $10 \log(2) = 3$ dB

Fundamental Emission AVERAGE Output Power = 2.97 dBm + 3 dB (MIMO)
= 5.97 dBm





Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

166 South Carter, Genoa City, WI 53128

Appendix B – Measurement Data

B2.0 Maximum Power Spectral Density – Conducted

Rule Section: Section 15.247(e)

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – *Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247*

10.3 Method AVGPS-1 (trace averaging with EUT transmitting at full (power throughout each sweep)

Description: Set instrument center frequency to DTS channel center frequency.
Set span to at least 1.5 times the OBW.
Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
Set VBW $\geq 3 \times \text{RBW}$.
Detector = power averaging (RMS).
Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
Sweep time = auto couple.
Employ trace averaging (RMS) mode over 200 traces.
Use the peak marker function to determine the maximum amplitude level.

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Limit: 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission.

Results: Passed

Notes: Tested output port 1 only as it was determined to be worst case from previous testing of this device (original certification).



166 South Carter, Genoa City, WI 53128

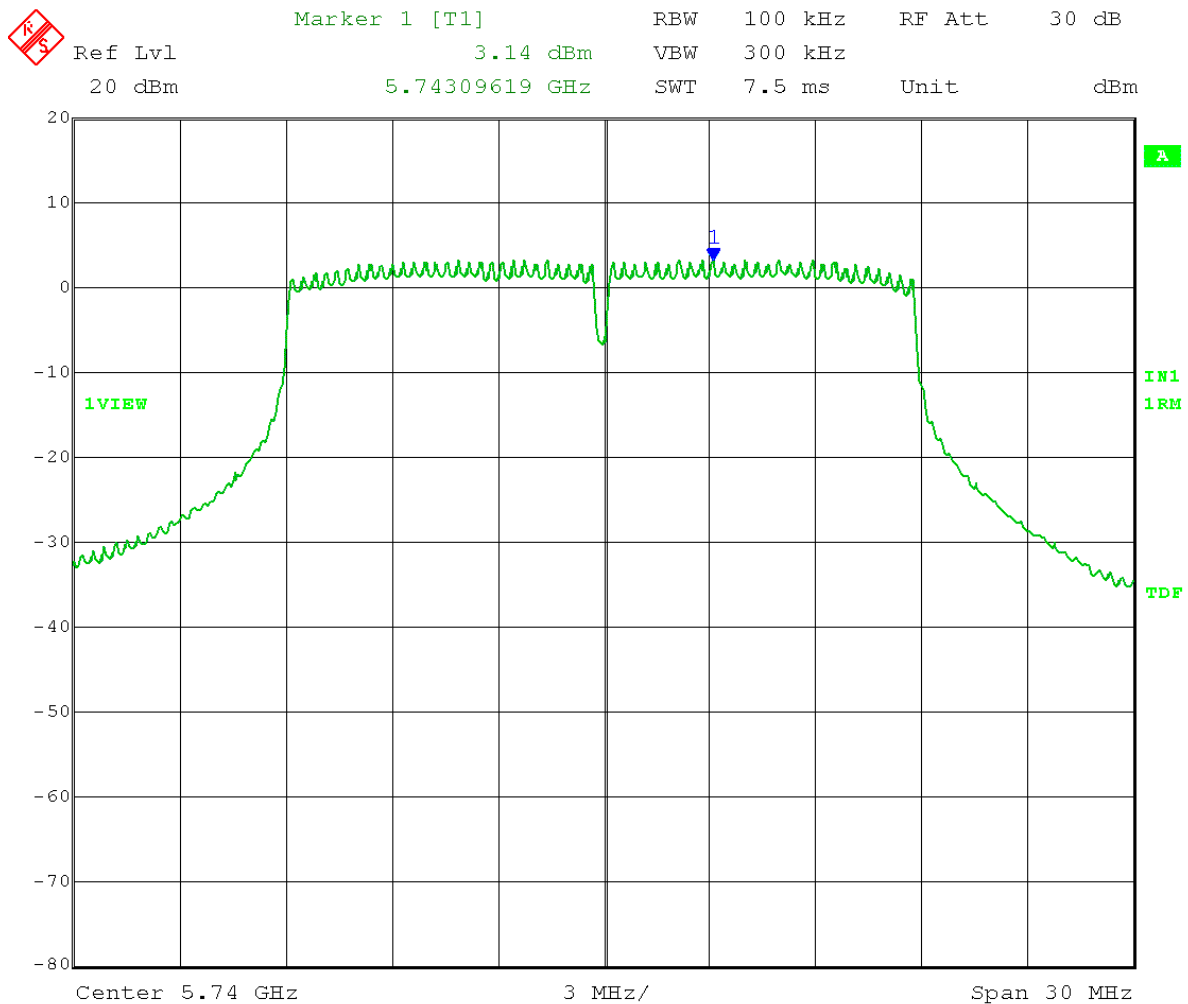
Company:	Cambium Networks
Model Tested:	C058900P122A
Report Number:	19896
DLS Project:	6493

**For the data showing
compliance for both the
20MHz & 40MHz Channel Bandwidths
with the Panel Antenna**

**See the data
with the Dish Antenna
on the following pages
(worst case power setting)**

Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: FCC DTS operating under 15.247 – OET 4/9/2013
10.3 Method AVGPSD-1
Low Channel: Frequency = 5.740 GHz
TX Output Power Setting = 28.5 dBm 20 MHz BW
RBW = 100 kHz VBW = 300 kHz
Span = 1.5 x OBW Detector = RMS
Sweep = Auto Couple Trace mode = average 200 traces
Channel 1
Limit: +8 dBm / 3 kHz

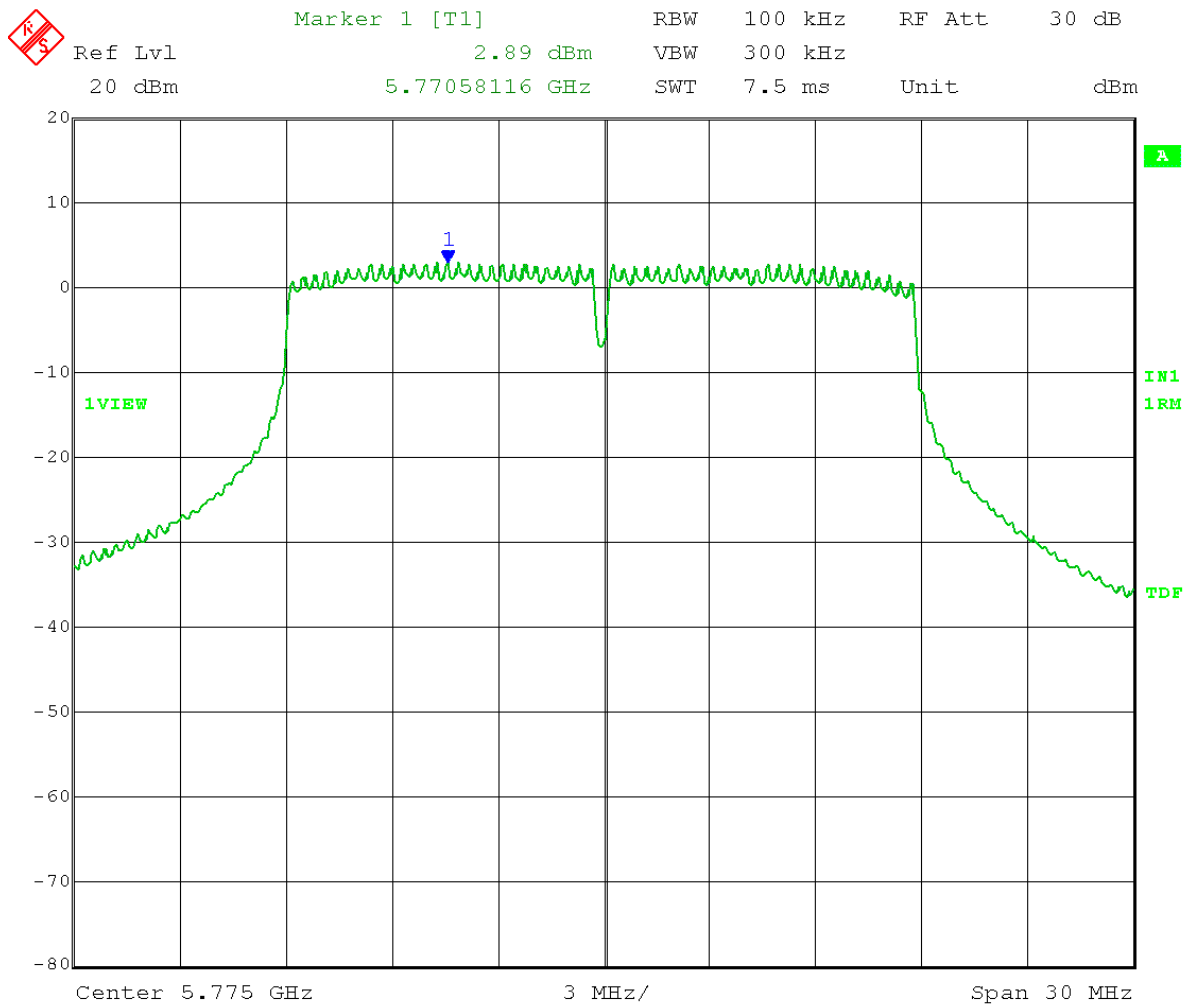
PSD = 3.14 dBm / 100 kHz



Date: 24.MAR.2014 14:51:50

Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: FCC DTS operating under 15.247 – OET 4/9/2013
10.3 Method AVGPSD-1
Mid Channel: Frequency = 5.775 GHz
TX Output Power Setting = 28.5 dBm 20 MHz BW
RBW = 100 kHz VBW = 300 kHz
Span = 1.5 x OBW Detector = RMS
Sweep = Auto Couple Trace mode = average 200 traces
Channel 1
Limit: +8 dBm / 3 kHz

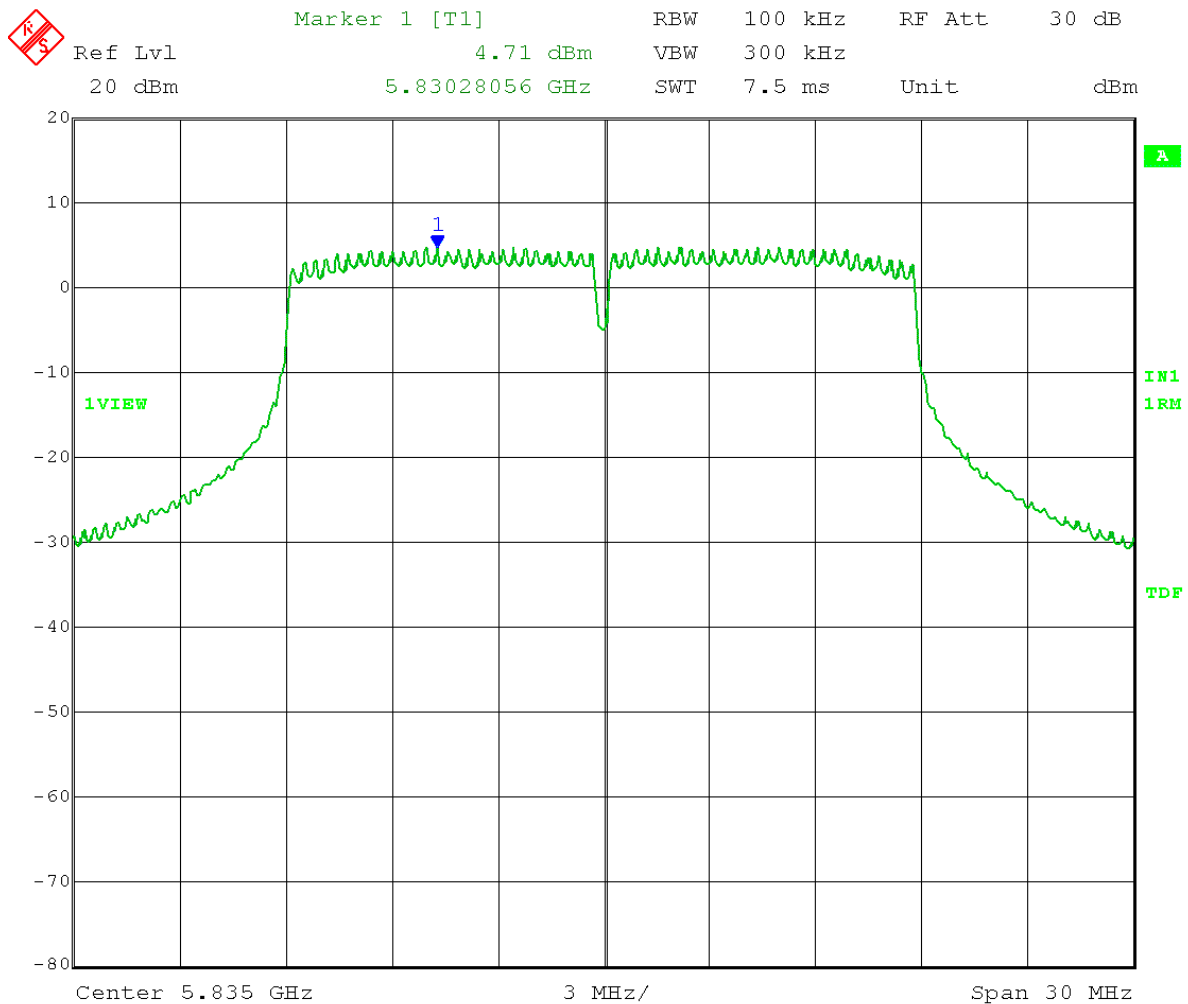
PSD = 2.89 dBm / 100 kHz



Date: 24.MAR.2014 14:48:02

Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: FCC DTS operating under 15.247 – OET 4/9/2013
10.3 Method AVGPSD-1
High Channel: Frequency = 5.835GHz
TX Output Power Setting = 28.5 dBm 20MHz BW
RBW = 100 kHz VBW = 300 kHz
Span = 1.5 x OBW Detector = RMS
Sweep = Auto Couple Trace mode = average 200 traces
Channel 1
Limit: +8 dBm / 3 kHz

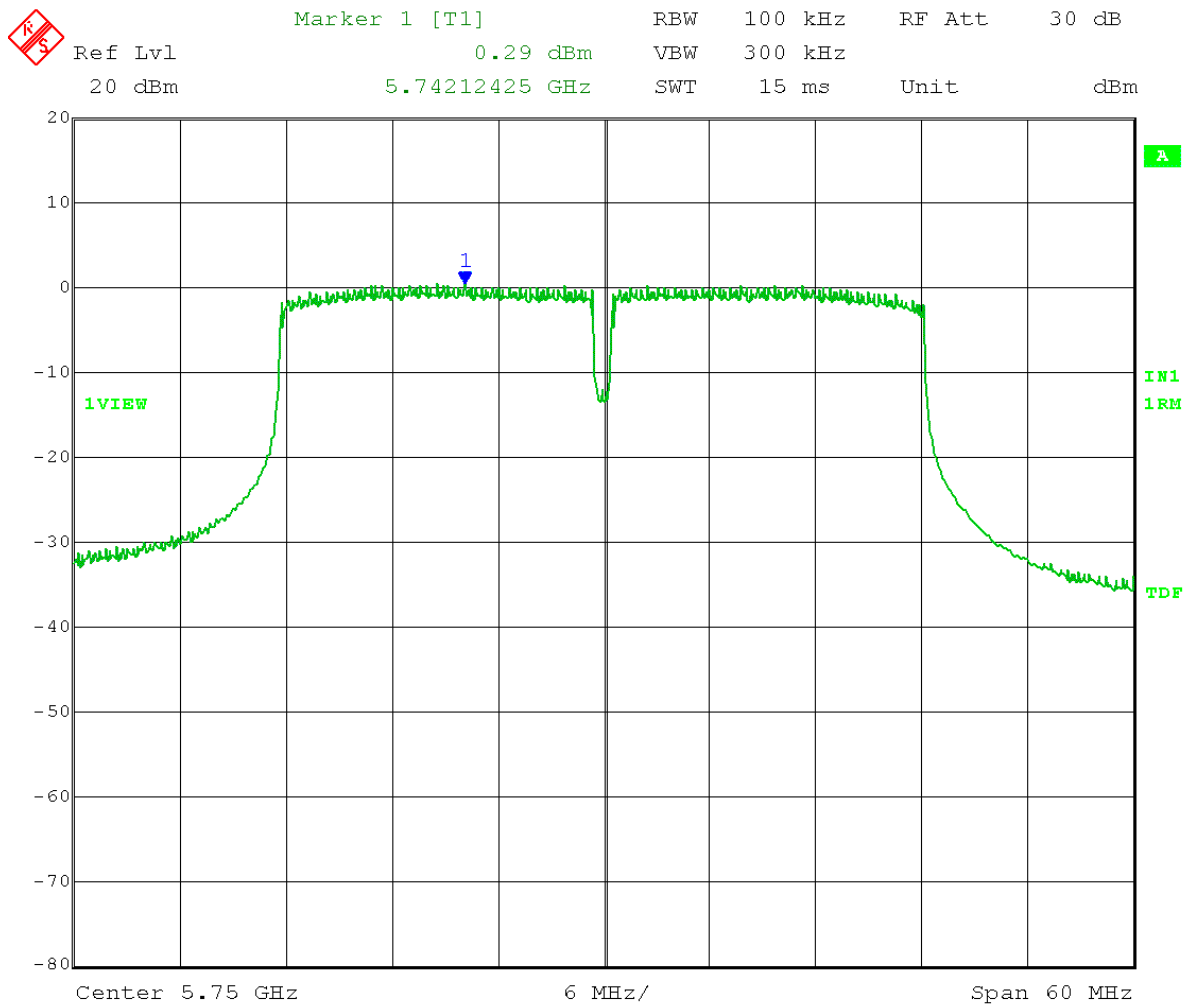
PSD = 4.71 dBm / 100 kHz



Date: 24.MAR.2014 14:35:47

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Peak Power Spectral Density - Conducted
 Operator: Craig B
 Comment: FCC DTS operating under 15.247 – OET 4/9/2013
 10.3 Method AVGPSD-1
 Low Channel: Frequency = 5.750 GHz
 TX Output Power Setting = 28.5 dBm 20 MHz BW
 RBW = 100 kHz VBW = 300 kHz
 Span = 1.5 x OBW Detector = RMS
 Sweep = Auto Couple Trace mode = average 200 traces
 Channel 1
 Limit: +8 dBm / 3 kHz

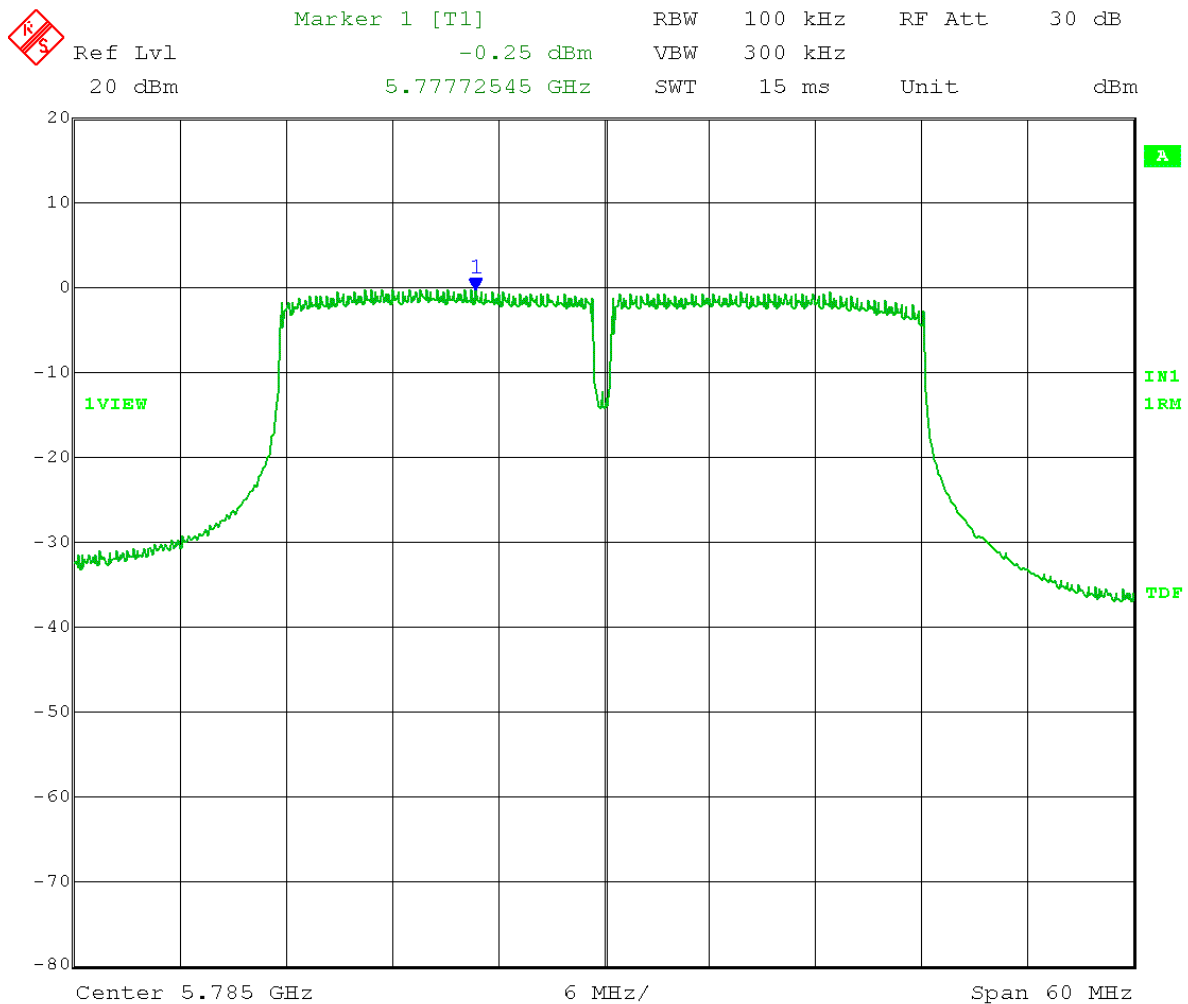
PSD = 0.29 dBm / 100 kHz



Date: 24.MAR.2014 14:59:36

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Peak Power Spectral Density - Conducted
 Operator: Craig B
 Comment: FCC DTS operating under 15.247 – OET 4/9/2013
 10.3 Method AVGPSD-1
 Mid Channel: Frequency = 5.785 GHz
 TX Output Power Setting = 28.5 dBm 20 MHz BW
 RBW = 100 kHz VBW = 300 kHz
 Span = 1.5 x OBW Detector = RMS
 Sweep = Auto Couple Trace mode = average 200 traces
 Channel 1
 Limit: +8 dBm / 3 kHz

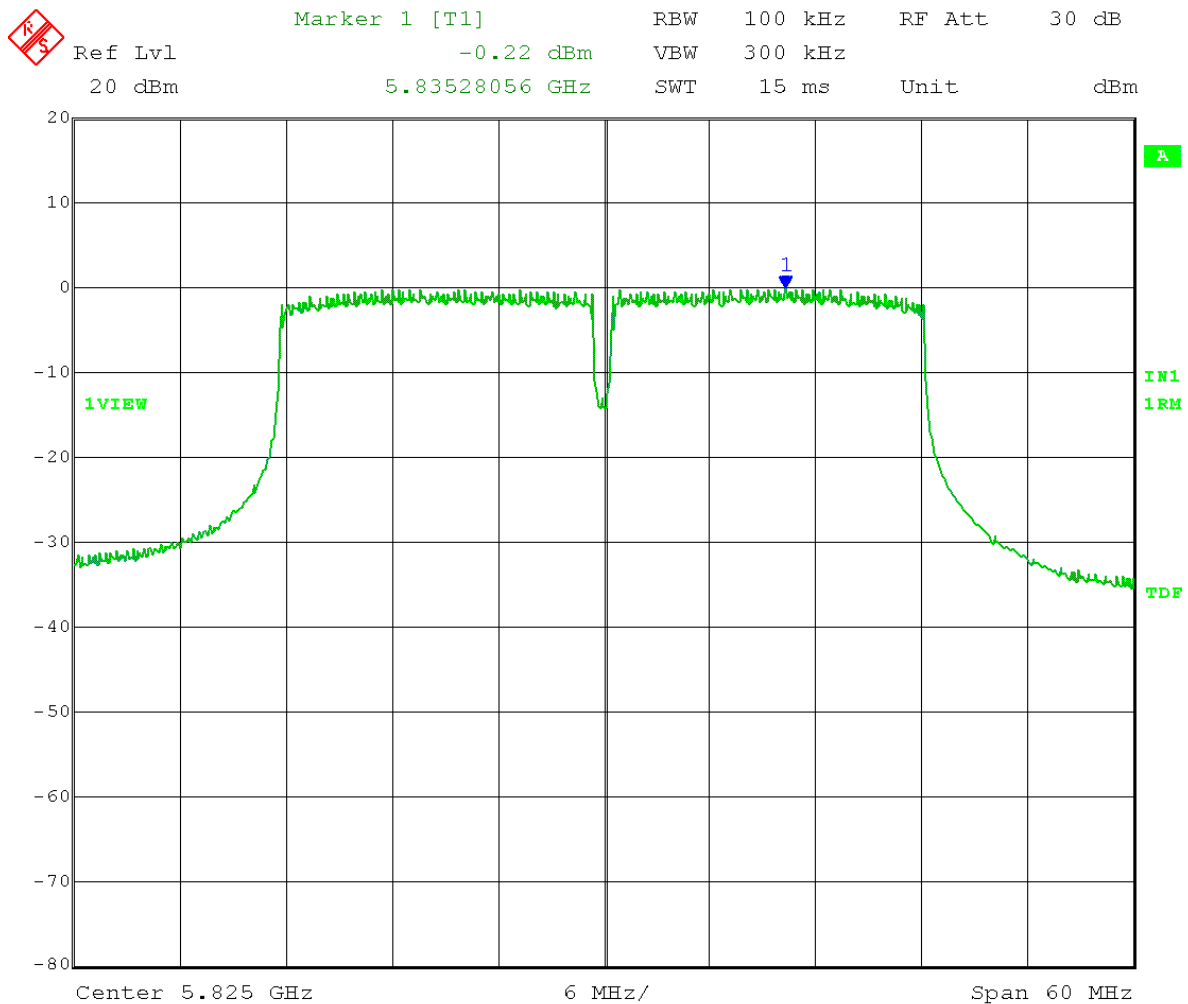
PSD = -0.25 dBm / 100 kHz



Date: 24.MAR.2014 14:57:22

Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Peak Power Spectral Density - Conducted
Operator: Craig B
Comment: FCC DTS operating under 15.247 – OET 4/9/2013
10.3 Method AVGPSD-1
High Channel: Frequency = 5.825 GHz
TX Output Power Setting = 28.5 dBm 20 MHz BW
RBW = 100 kHz VBW = 300 kHz
Span = 1.5 x OBW Detector = RMS
Sweep = Auto Couple Trace mode = average 200 traces
Channel 1
Limit: +8 dBm / 3 kHz

PSD = -0.22 dBm / 100 kHz



Date: 24.MAR.2014 15:01:58



Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

166 South Carter, Genoa City, WI 53128

Appendix B – Measurement Data

B3.0 Maximum Unwanted Emission Levels – Conducted

Rule Section: Section 15.247(d)

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – *Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247*

11.0 -Emissions in non-restricted frequency bands

11.2 - Reference level measurement

11.3 - Emission level measurement

Description: RBW = 100 kHz
VBW $\geq$ 300 kHz
Span to $\geq$ 1.5 times the *DTS bandwidth* (Reference Level)
Set the center frequency and span to encompass frequency range to be measured. (Emission Level)
Detector = peak
Sweep = auto couple
Trace mode = max hold

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Limit: 30 dB below maximum in-band average PSD level (maximum level in any 100 kHz band). Average output power procedure was used to measure the fundamental emission power

Results: Passed

Notes: Tested output port 1 only as it was determined to be worst case from previous testing of this device (original certification).



166 South Carter, Genoa City, WI 53128

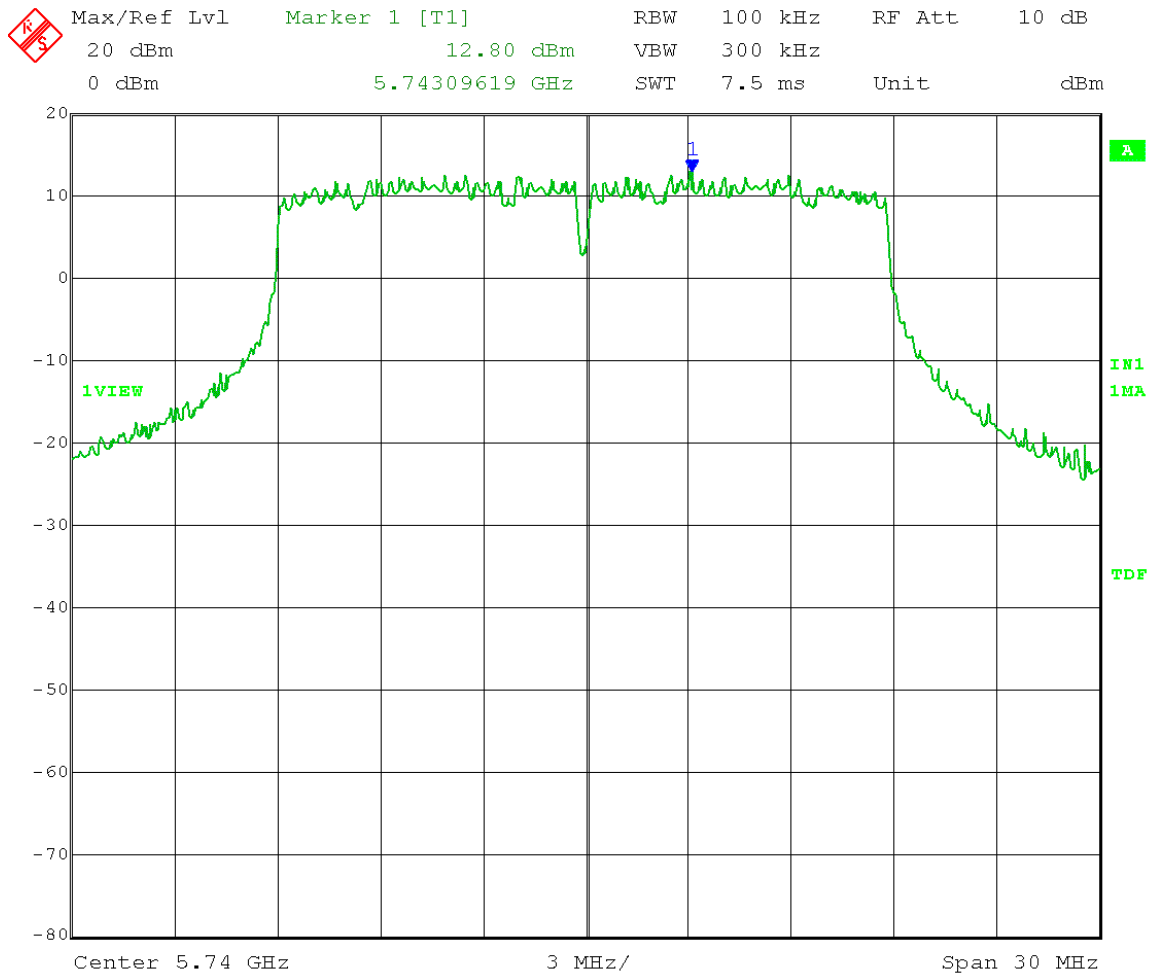
Company:	Cambium Networks
Model Tested:	C058900P122A
Report Number:	19896
DLS Project:	6493

**For the data showing the
Point-to-Point
compliance for both the
20MHz & 40MHz Channel Bandwidths
with the Panel Antenna**

**See the Point-to-Point data
with the Dish Antenna
on the following pages.**

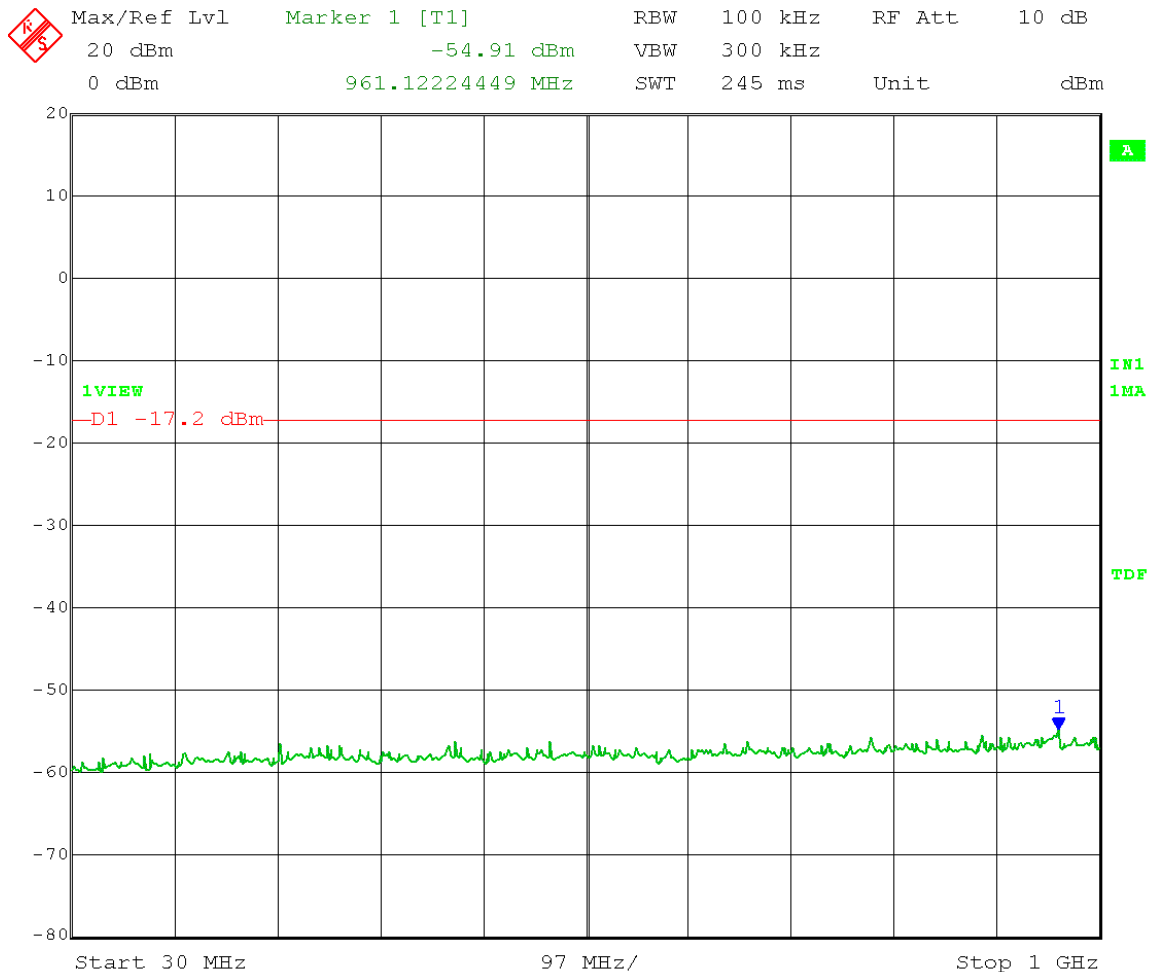
The same power settings are used.

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = 12.80 dBm - 30 dB = -17.20 dBm



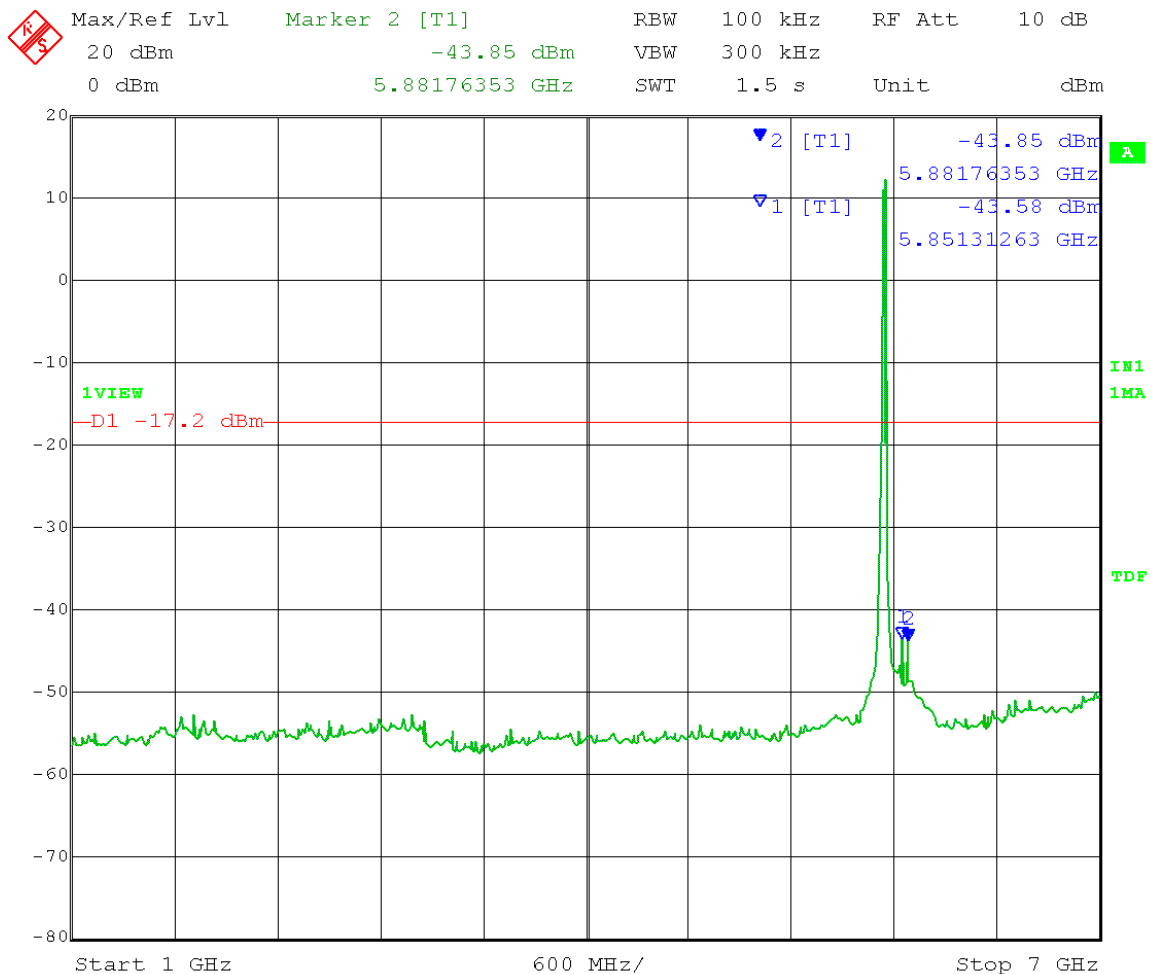
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.80 dBm - 30 dB = -17.20 dBm
 Frequency Range: 30 - 1000 MHz



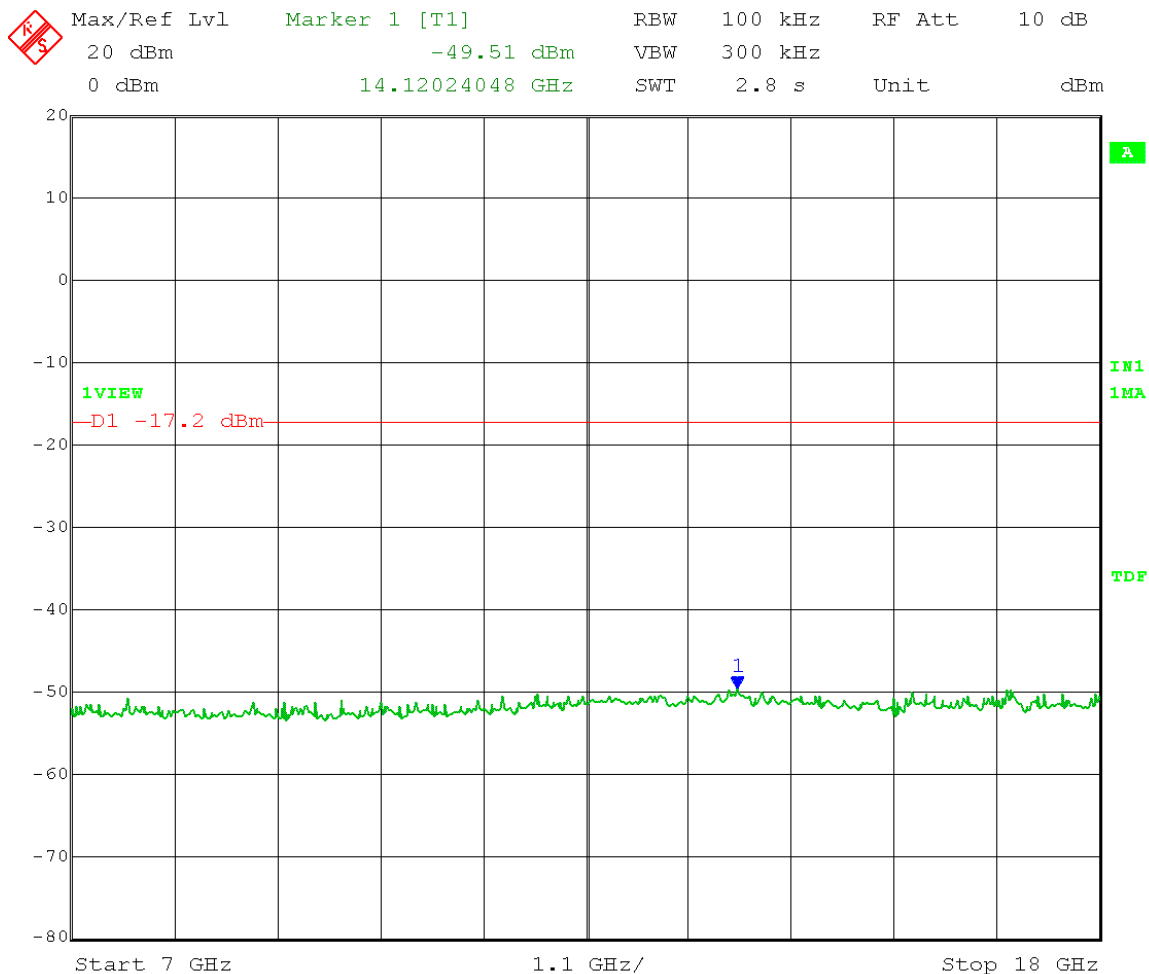
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.80 dBm - 30 dB = -17.20 dBm
 Frequency Range: 1 - 7 GHz



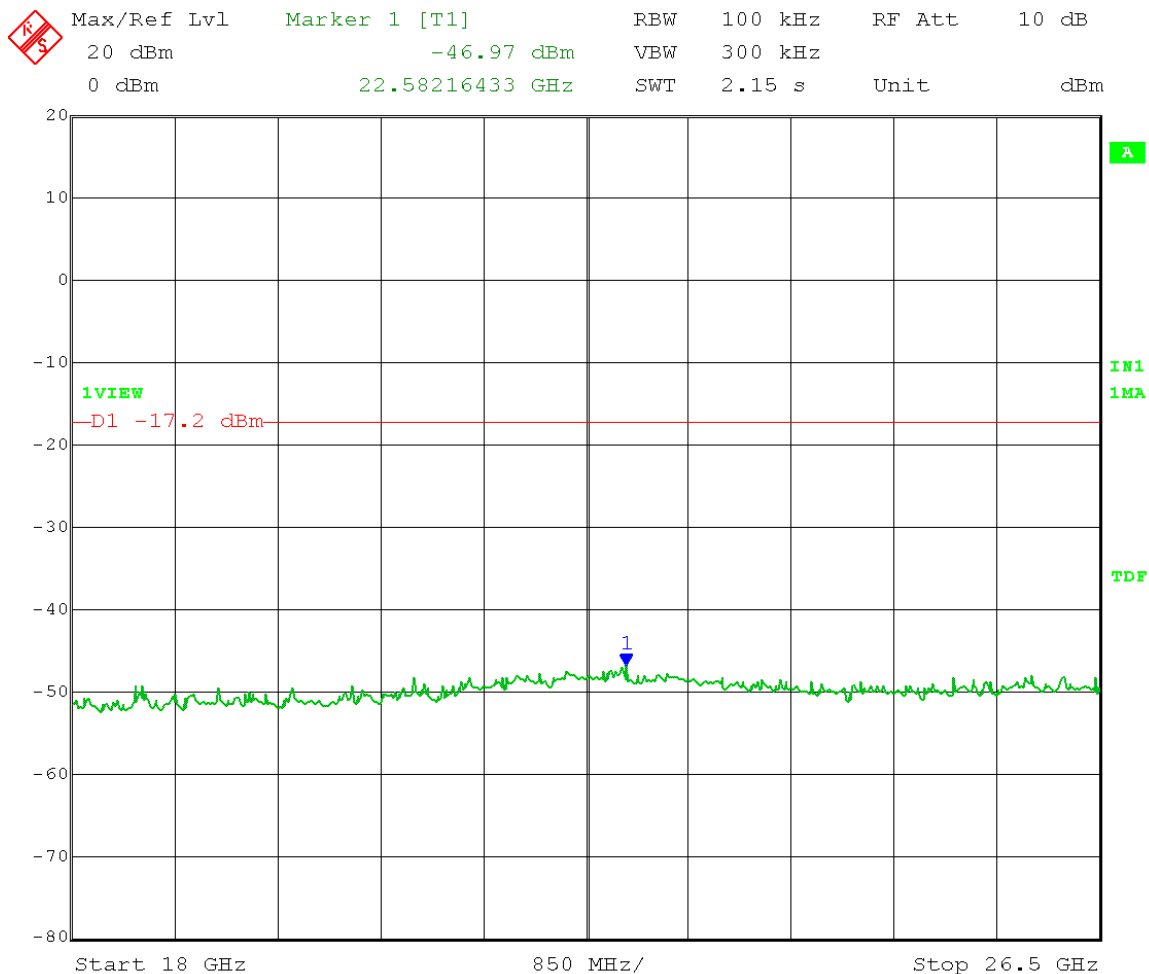
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Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 28.5 Point-to-Point mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = 12.80 dBm – 30 dB = -17.20 dBm
Frequency Range: 7 – 18 GHz



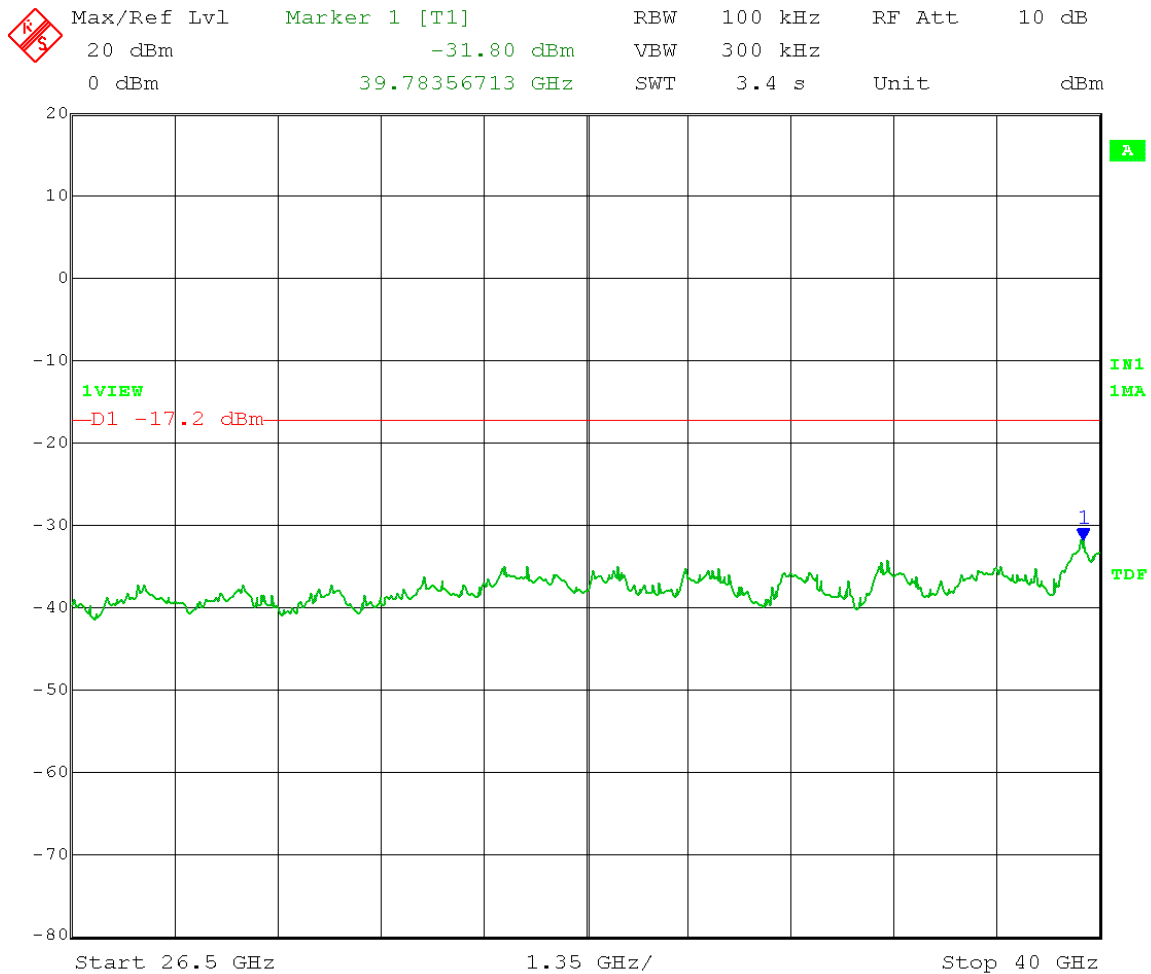
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Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 28.5 Point-to-Point mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = 12.80 dBm – 30 dB = -17.20 dBm
Frequency Range: 18 – 26.5 GHz



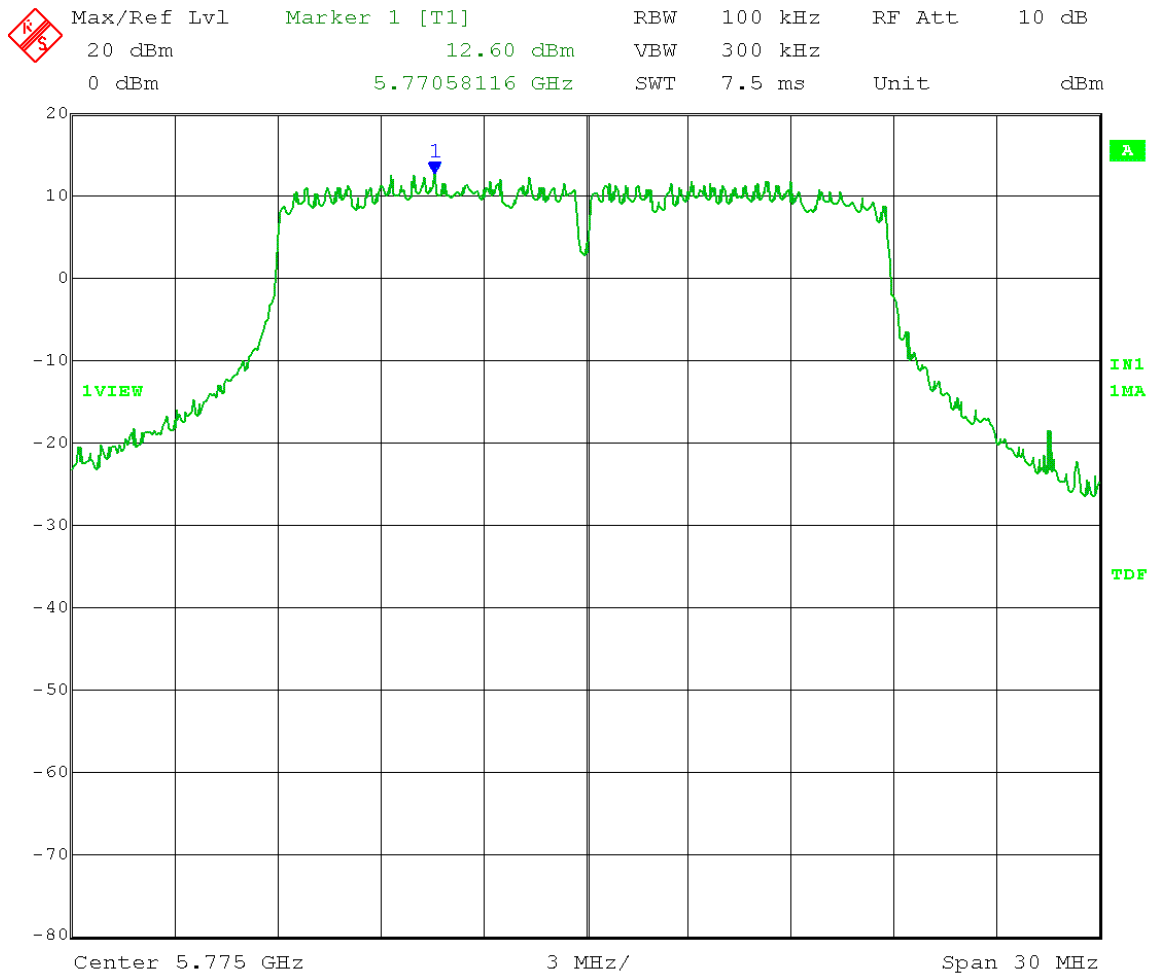
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.80 dBm – 30 dB = -17.20 dBm
 Frequency Range: 26.5 – 40 GHz



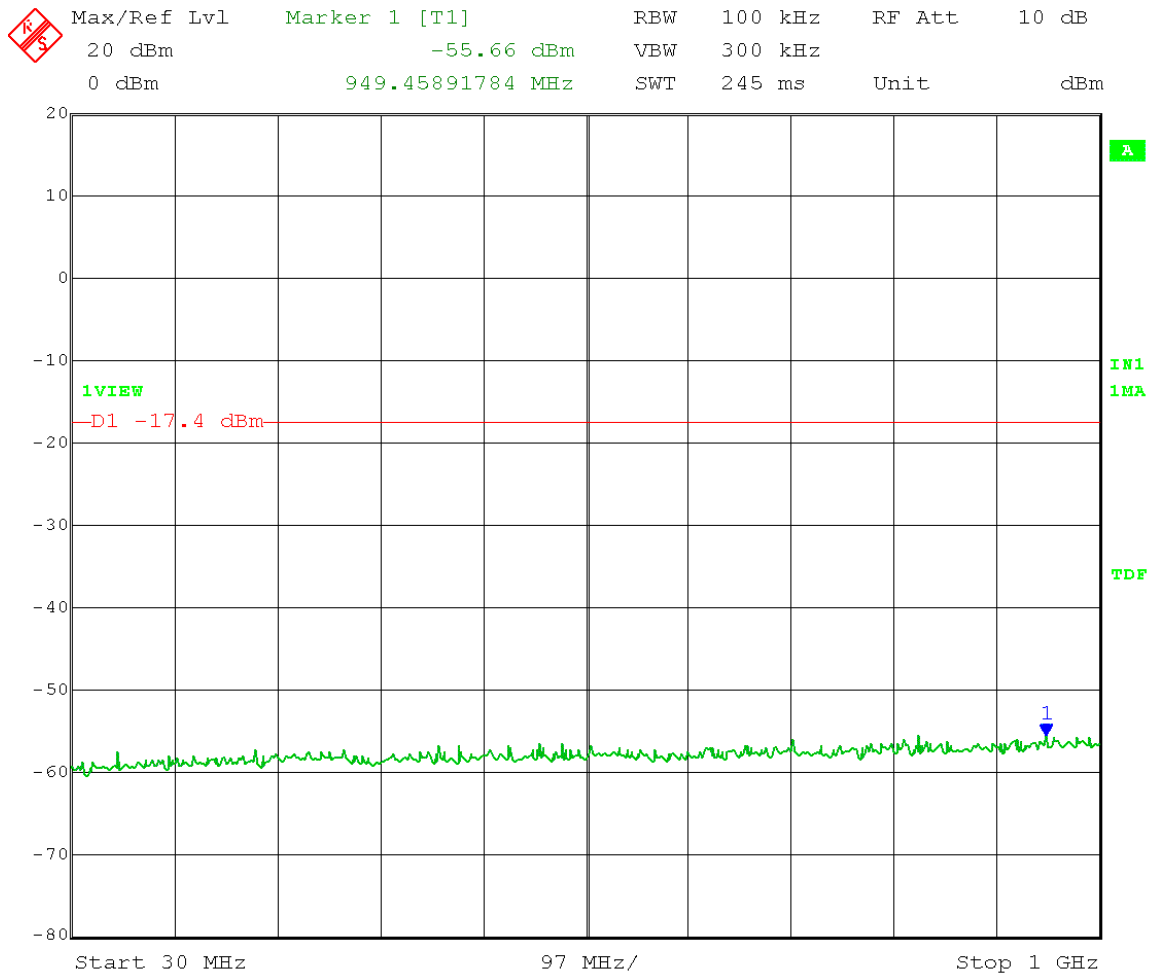
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = 12.60 dBm - 30 dB = -17.40 dBm



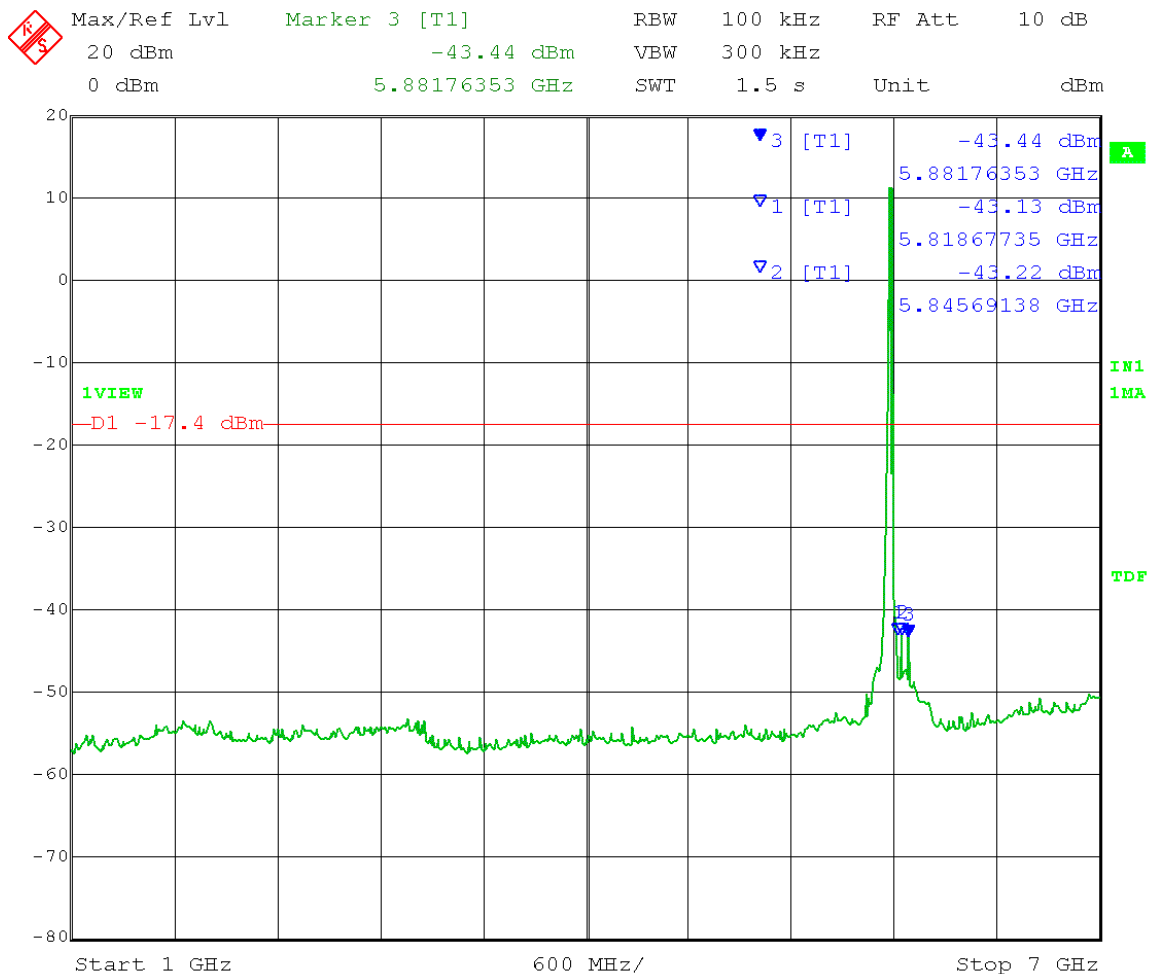
Date: 24.MAR.2014 15:42:53

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.60 dBm - 30 dB = -17.40 dBm
 Frequency Range: 30 - 1000 MHz

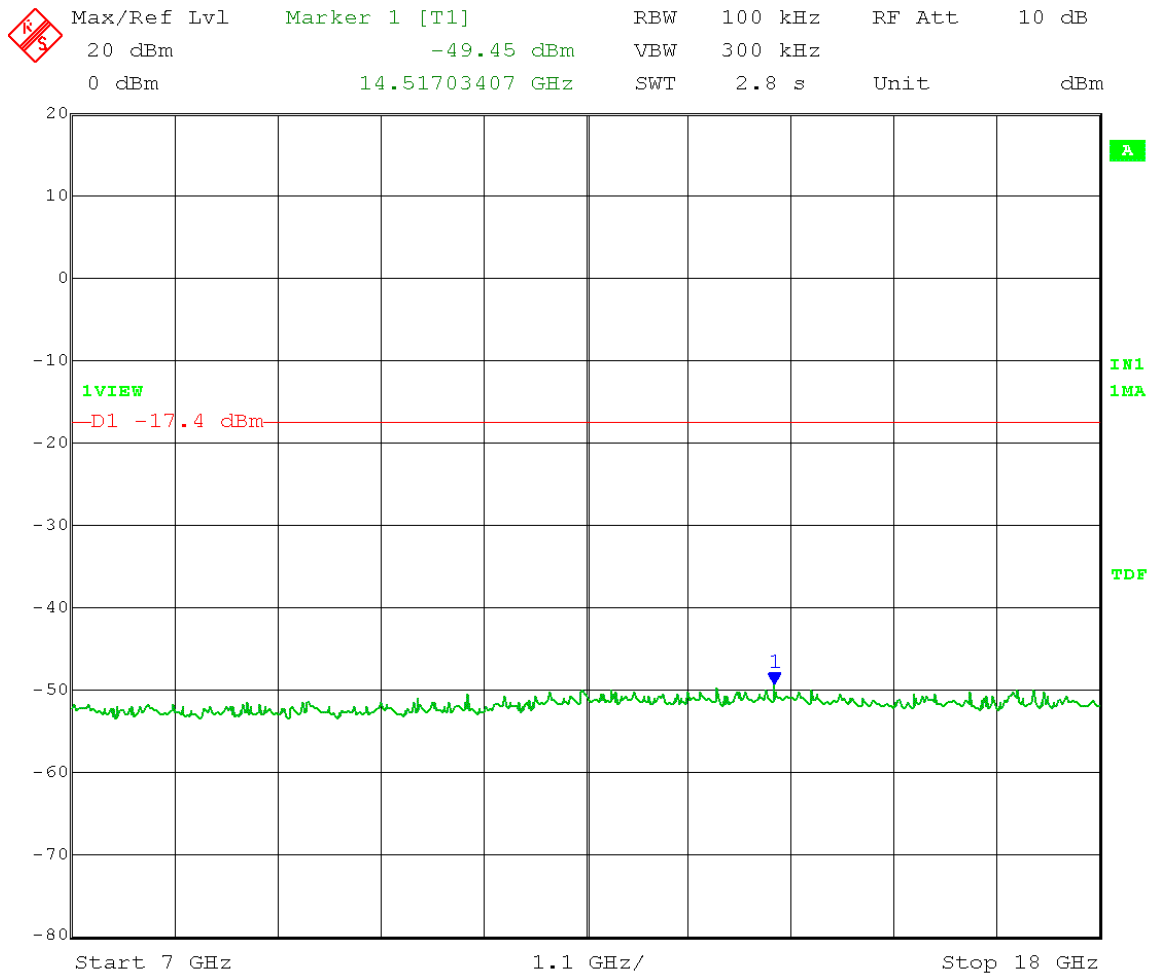


Date: 24.MAR.2014 15:53:26

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.60 dBm - 30 dB = -17.40 dBm
 Frequency Range: 1 - 7 GHz

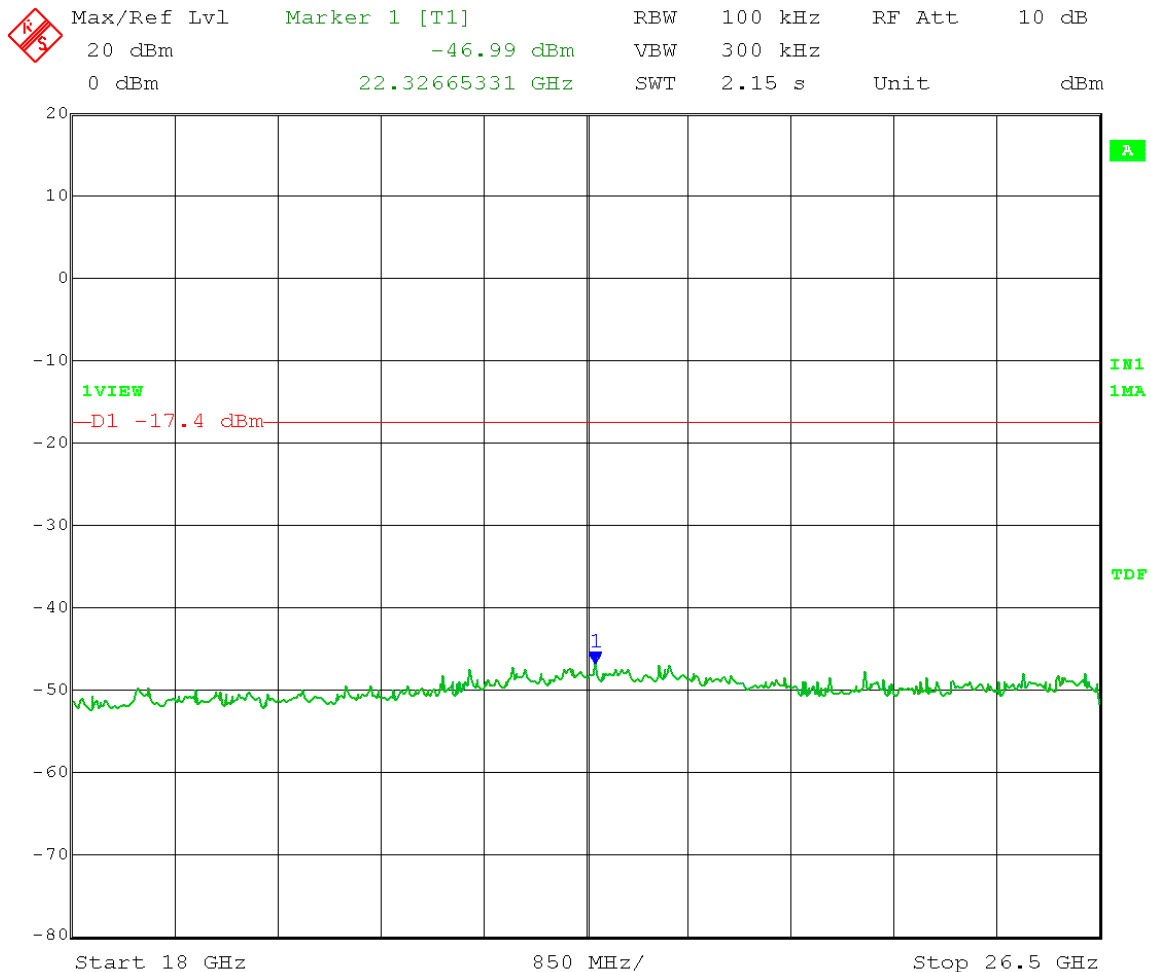


Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.60 dBm – 30 dB = -17.40 dBm
 Frequency Range: 7 – 18 GHz



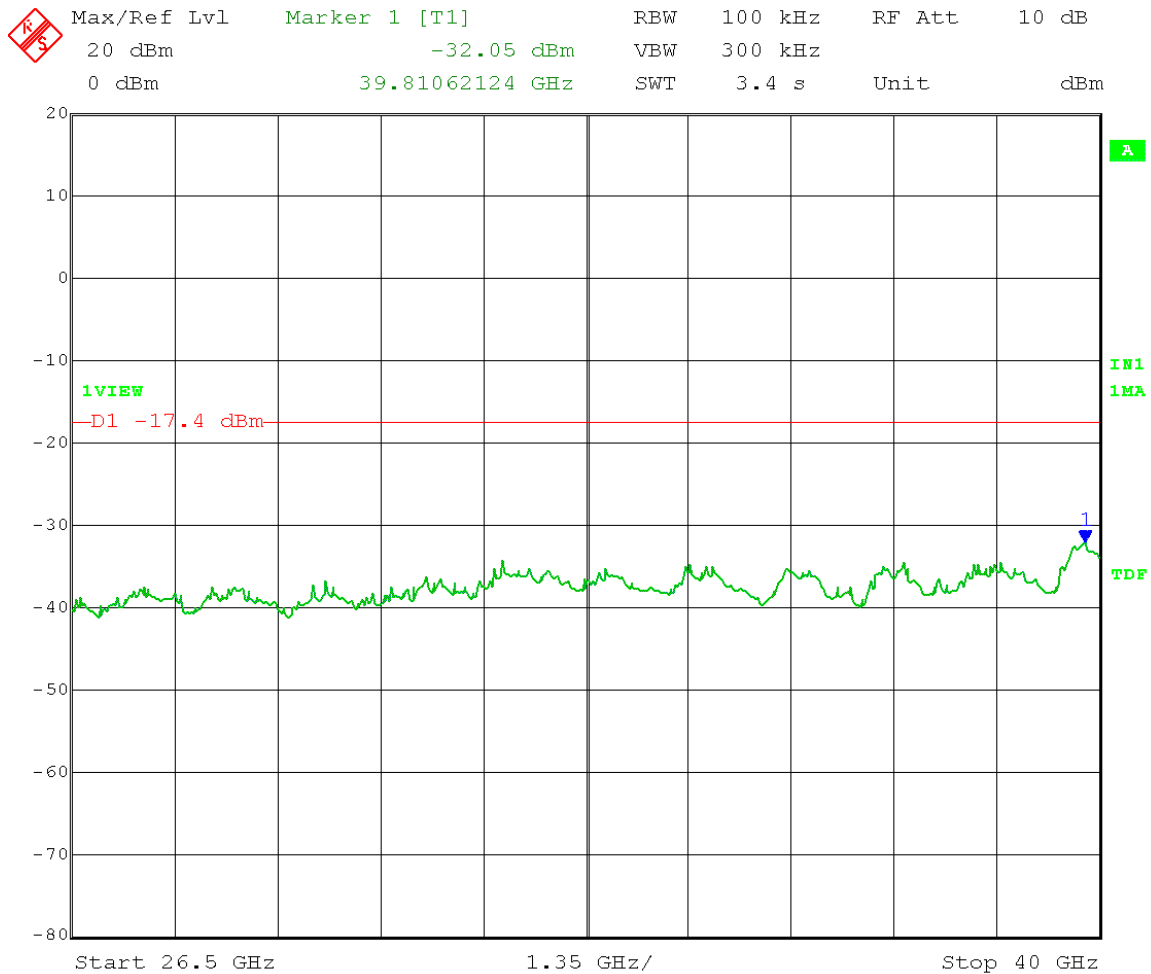
Date: 24.MAR.2014 15:48:27

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.60 dBm – 30 dB = -17.40 dBm
 Frequency Range: 18 – 26.5 GHz



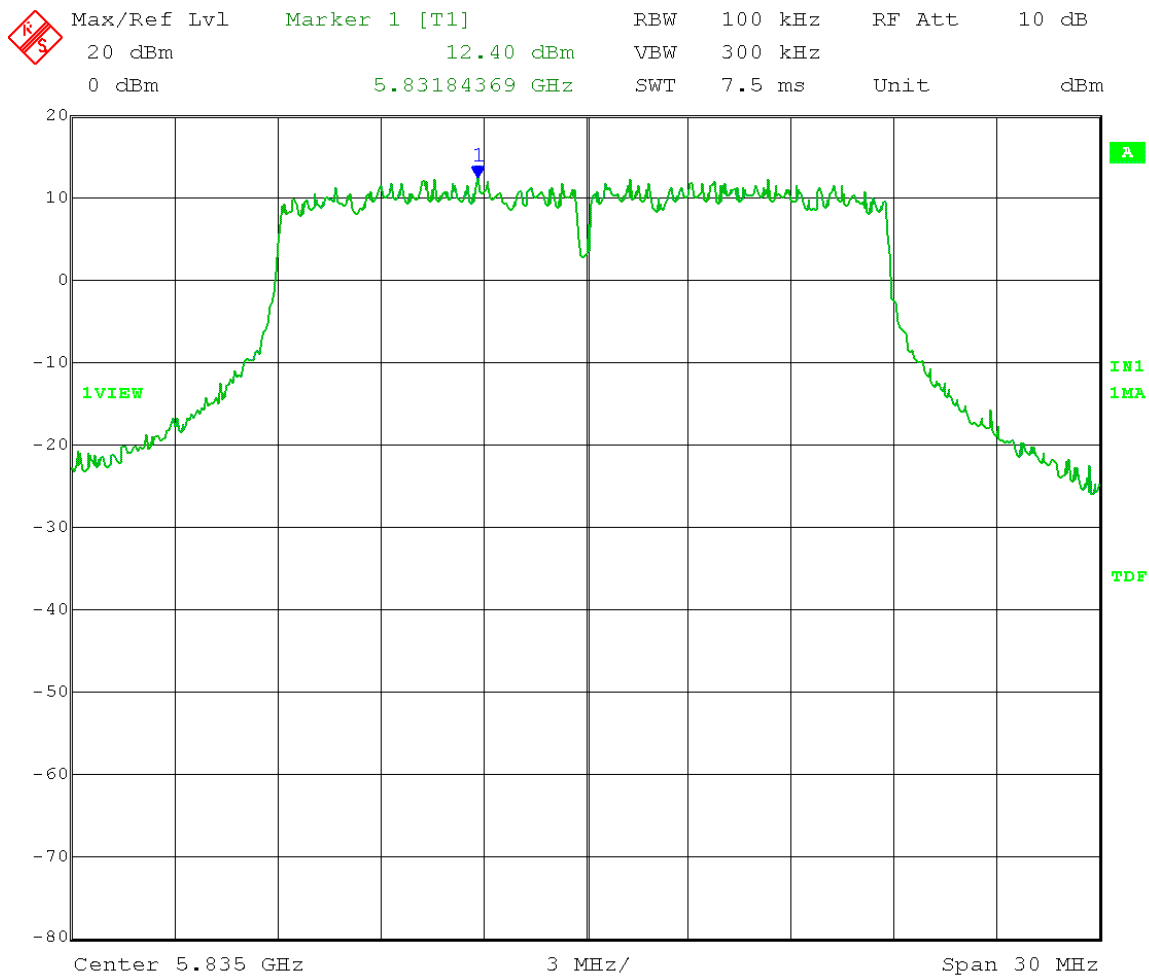
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.60 dBm – 30 dB = -17.40 dBm
 Frequency Range: 26.5 – 40 GHz



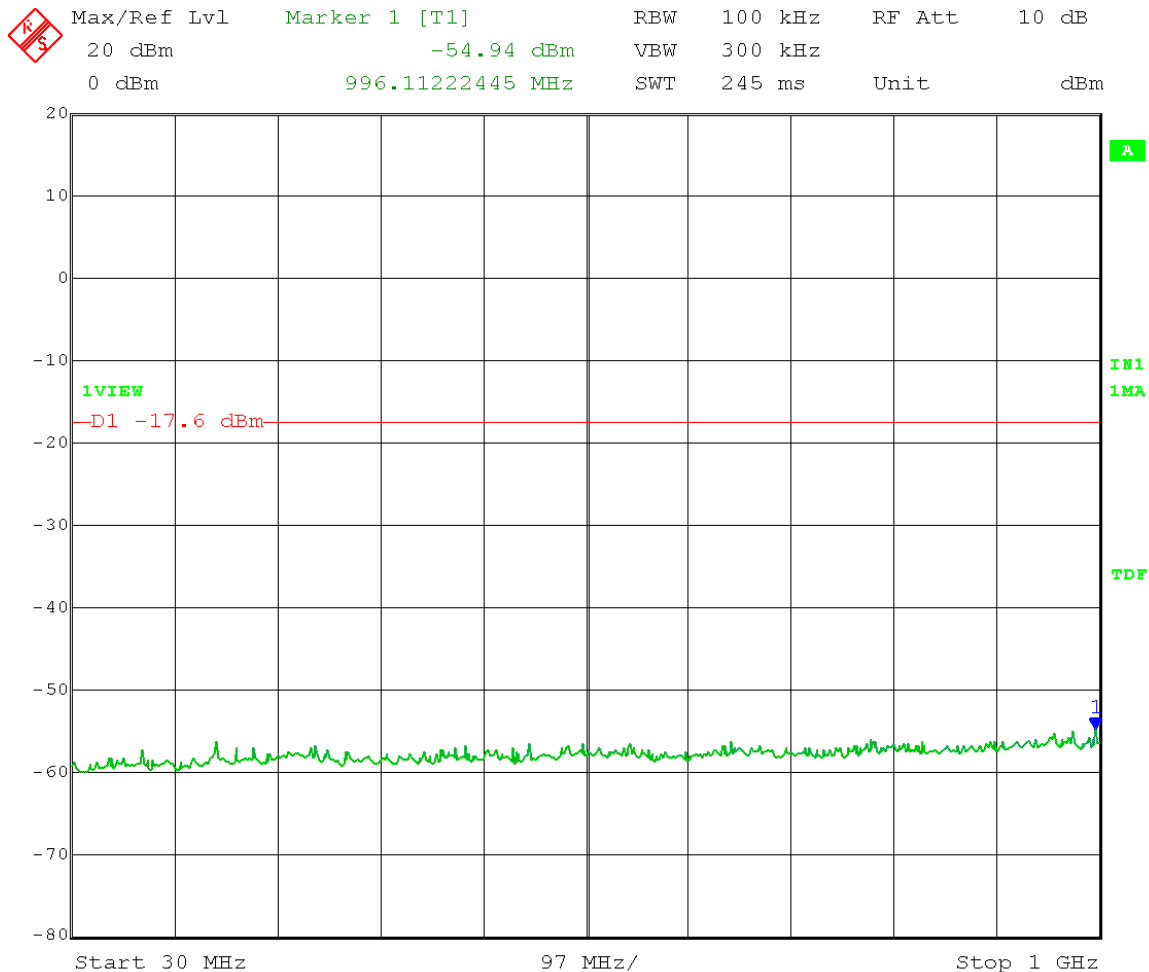
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = 12.40 dBm - 30 dB = -17.60 dBm



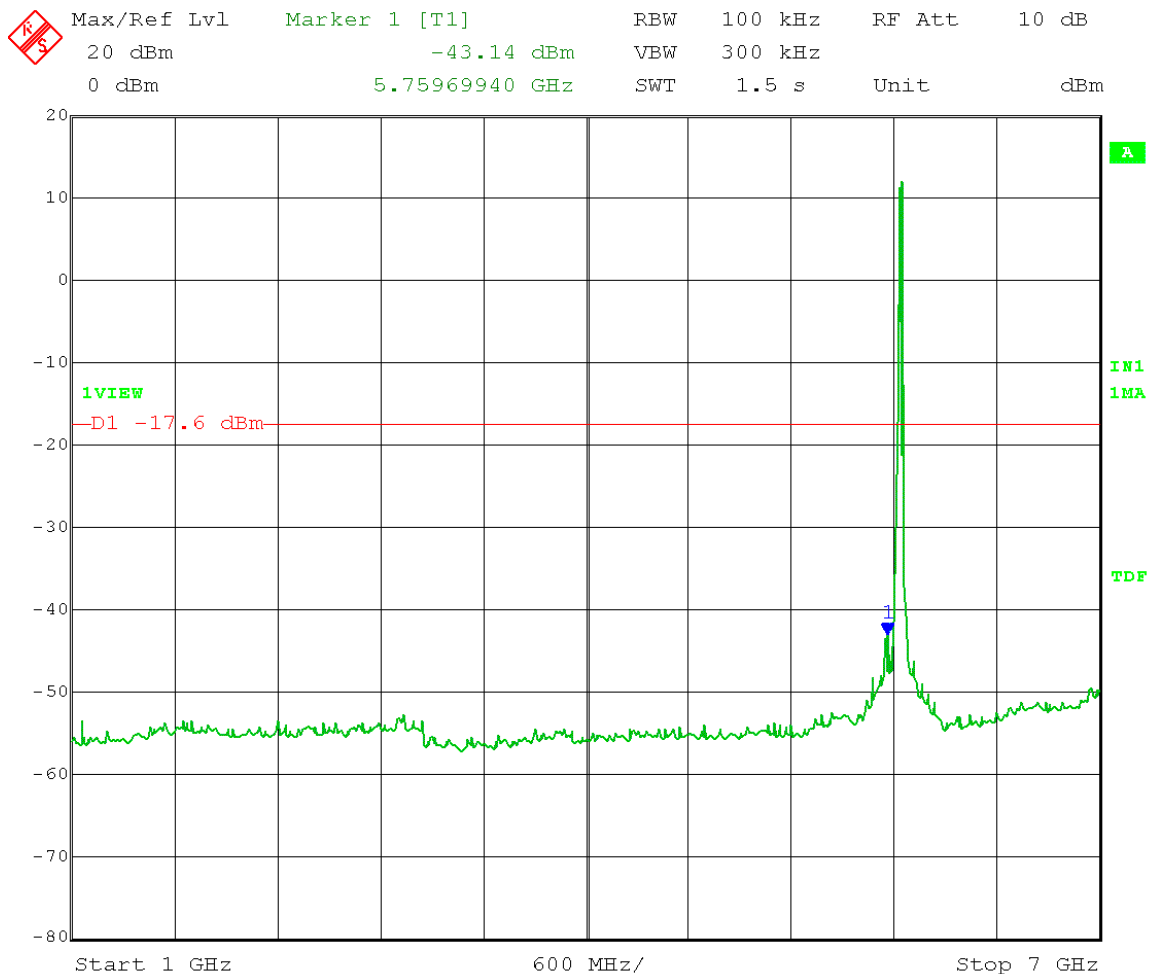
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.40 dBm – 30 dB = -17.60 dBm
 Frequency Range: 30 – 1000 MHz



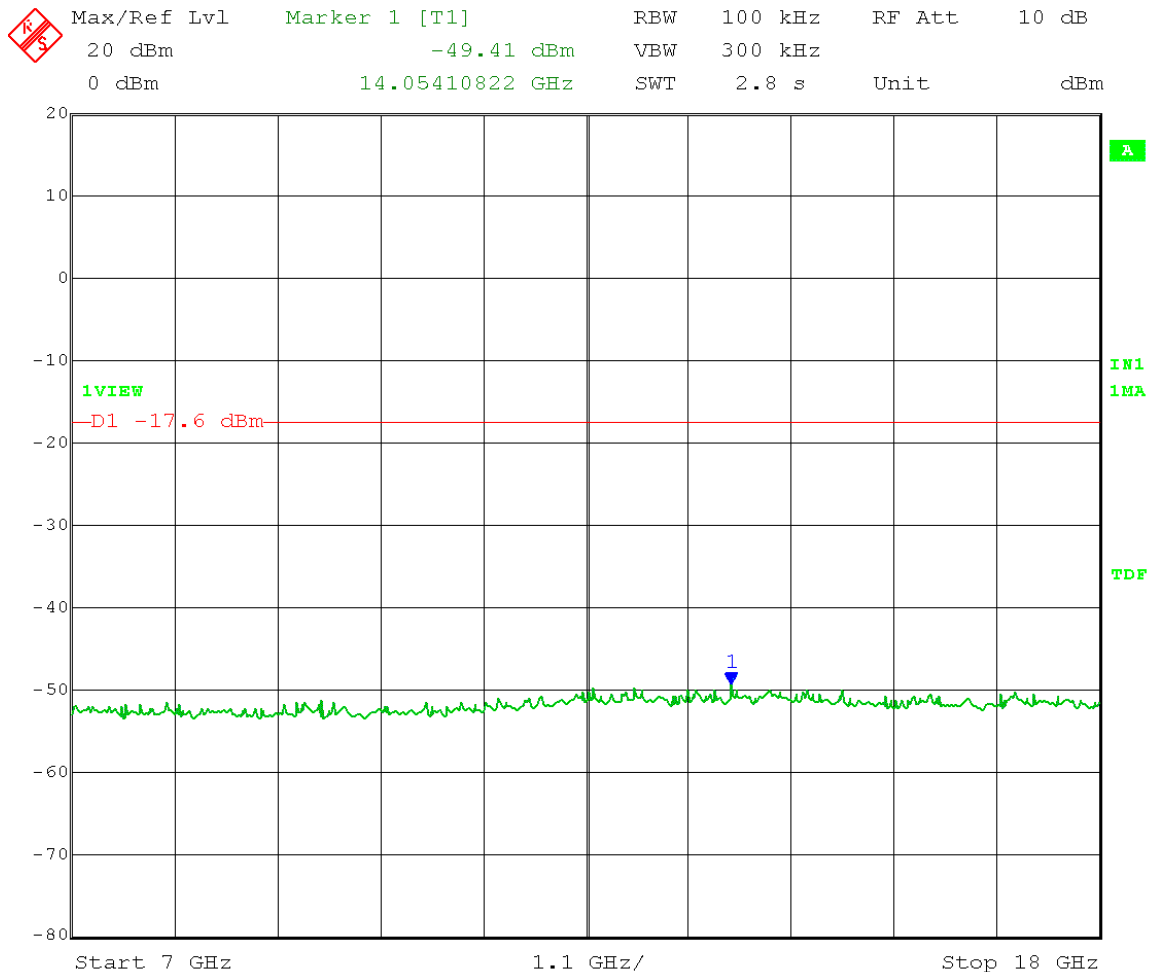
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.40 dBm - 30 dB = -17.60 dBm
 Frequency Range: 1 - 7 GHz



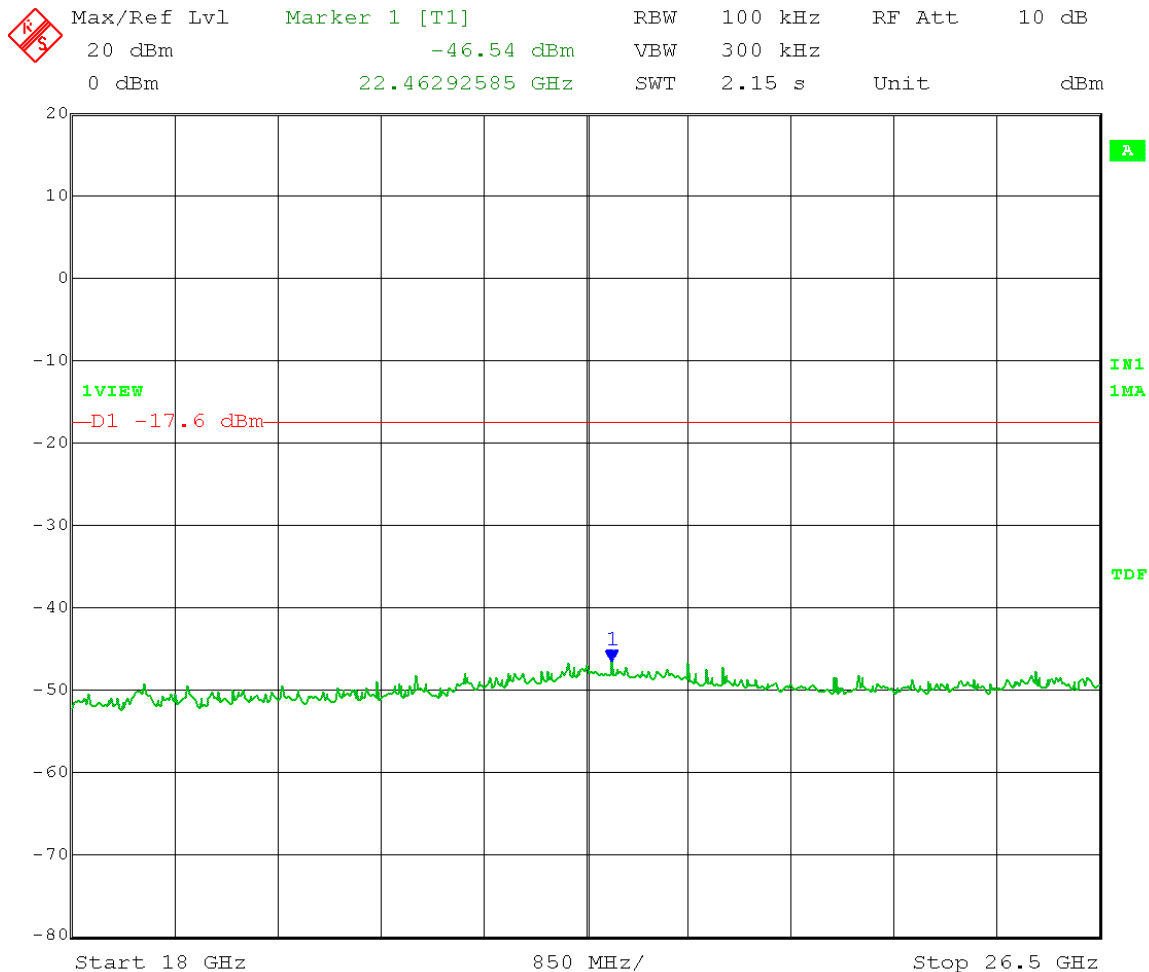
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.40 dBm – 30 dB = -17.60 dBm
 Frequency Range: 7 – 18 GHz



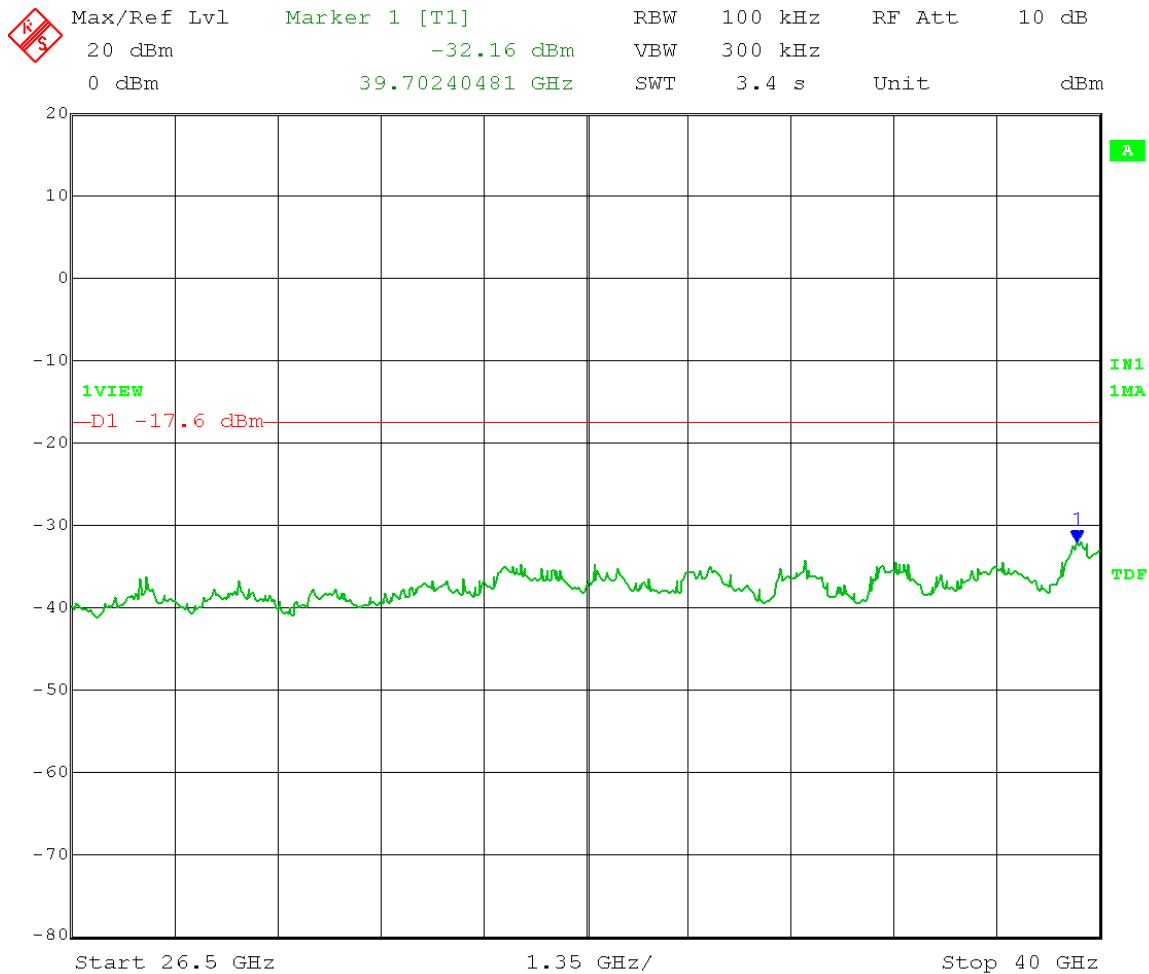
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.40 dBm - 30 dB = -17.60 dBm
 Frequency Range: 18 - 26.5 GHz



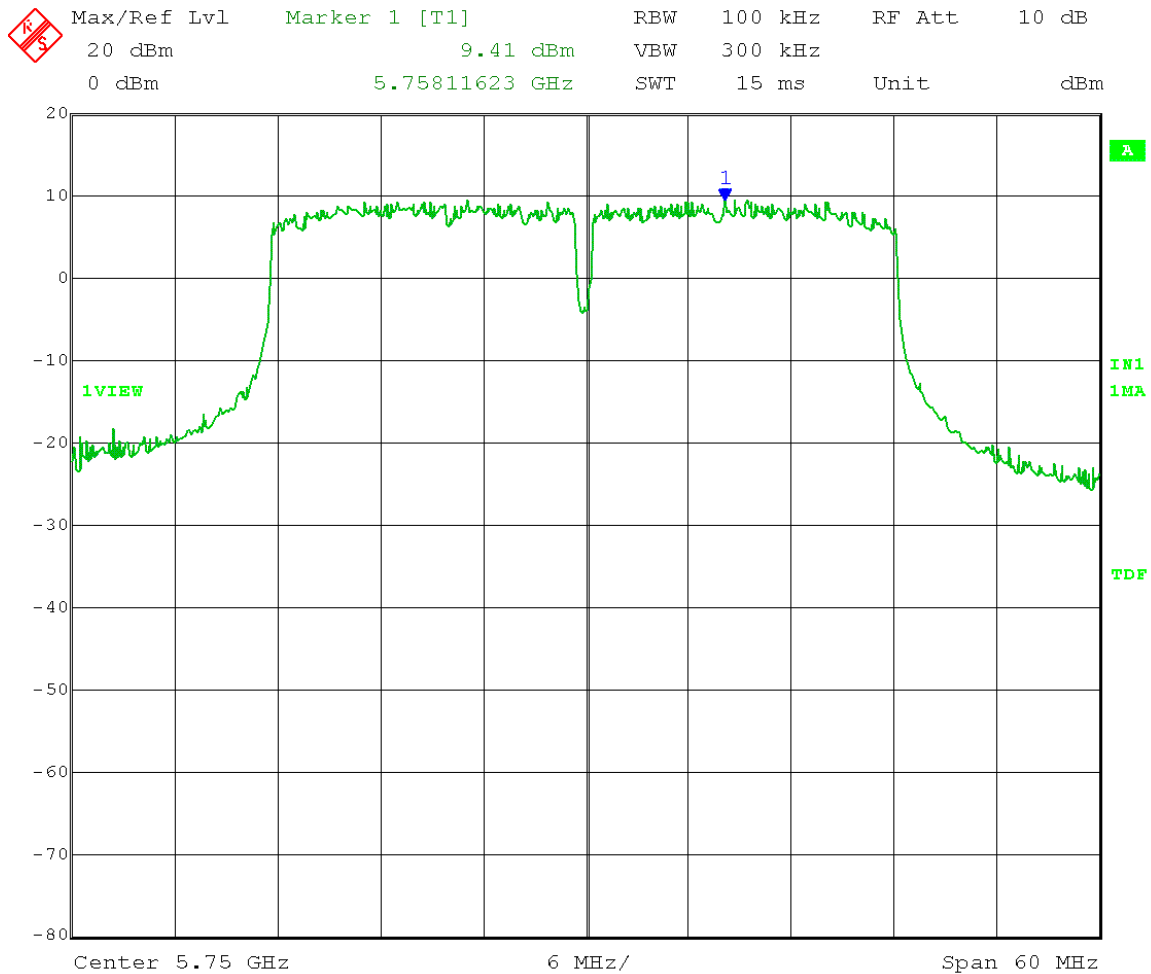
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = 12.40 dBm - 30 dB = -17.60 dBm
 Frequency Range: 26.5 - 40 GHz



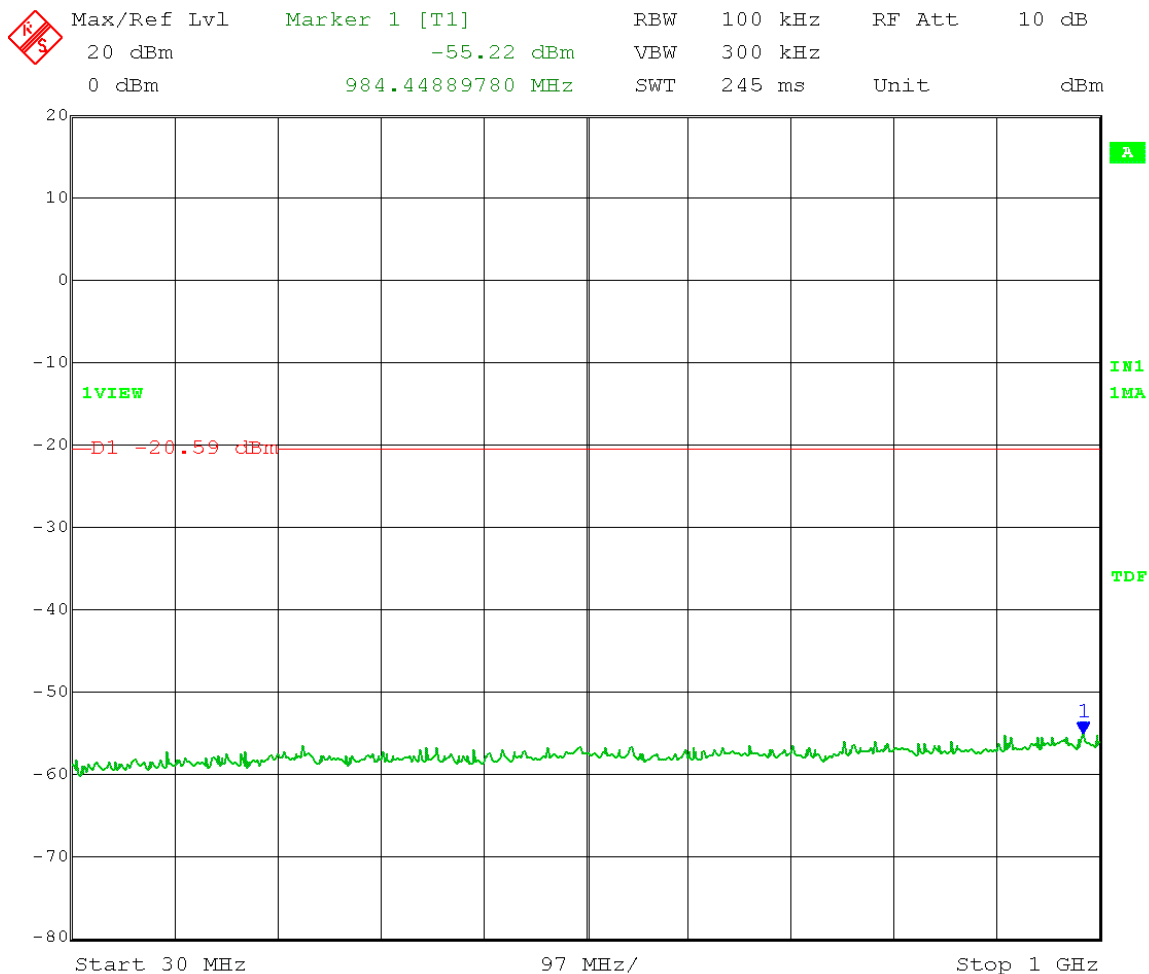
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm



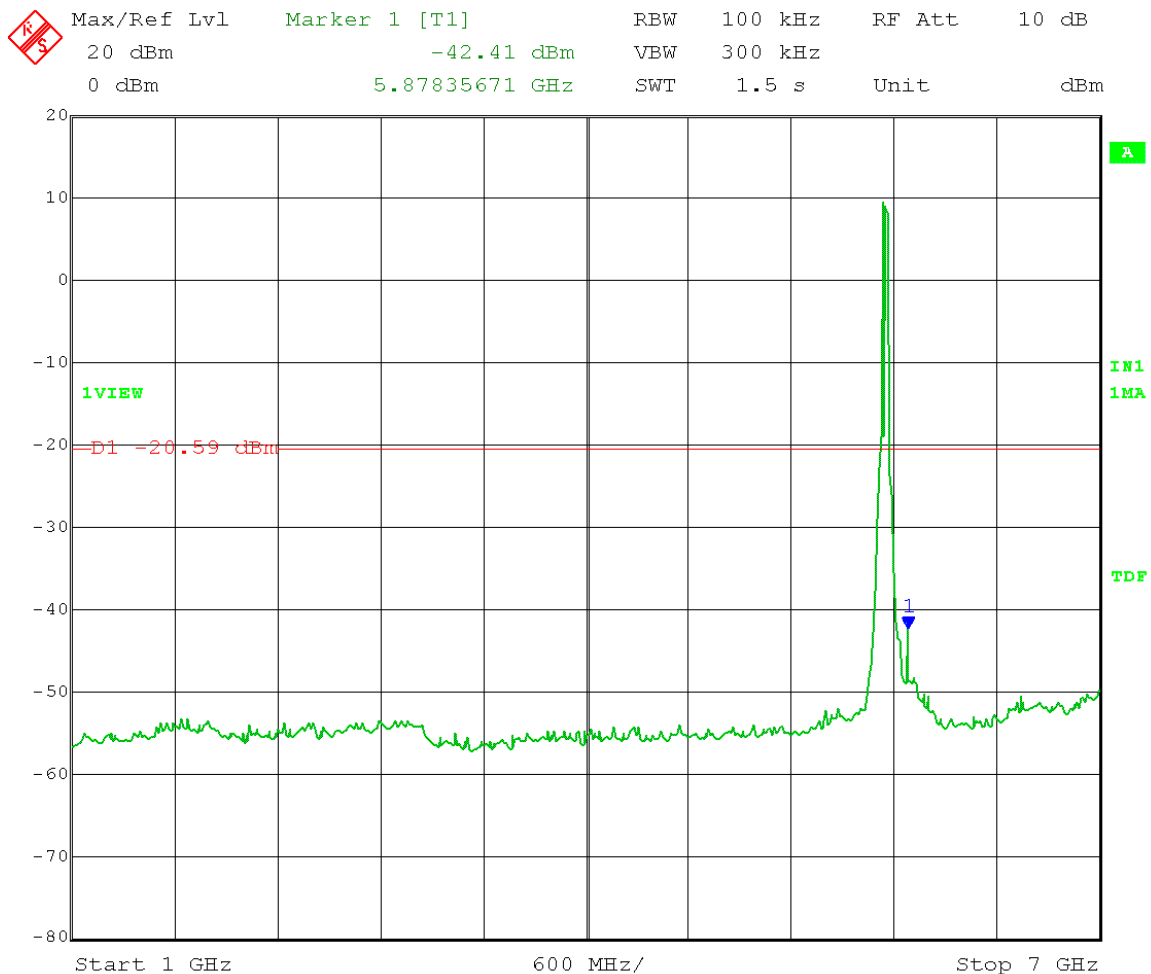
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm
 Frequency Range: 30 – 1000 MHz



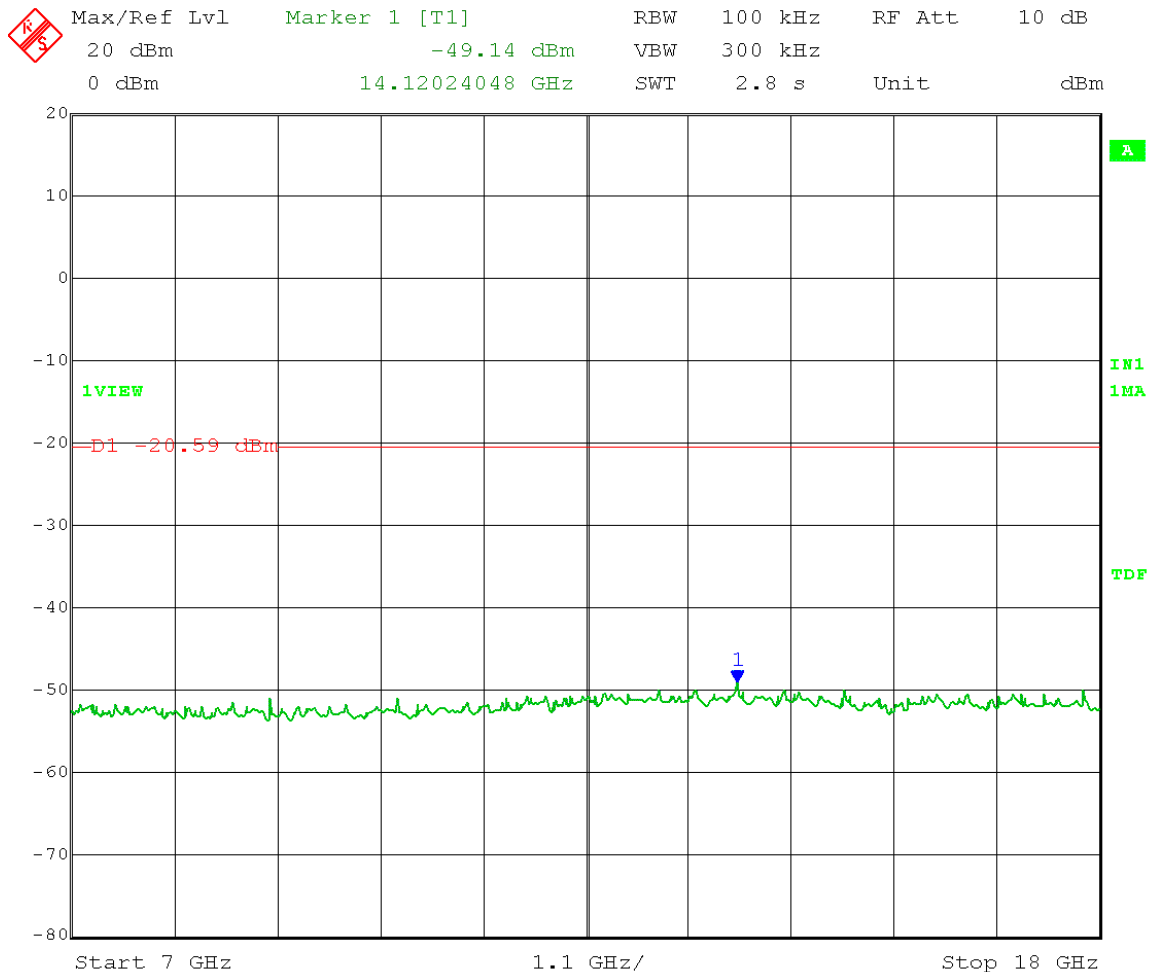
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm
 Frequency Range: 1 – 7 GHz



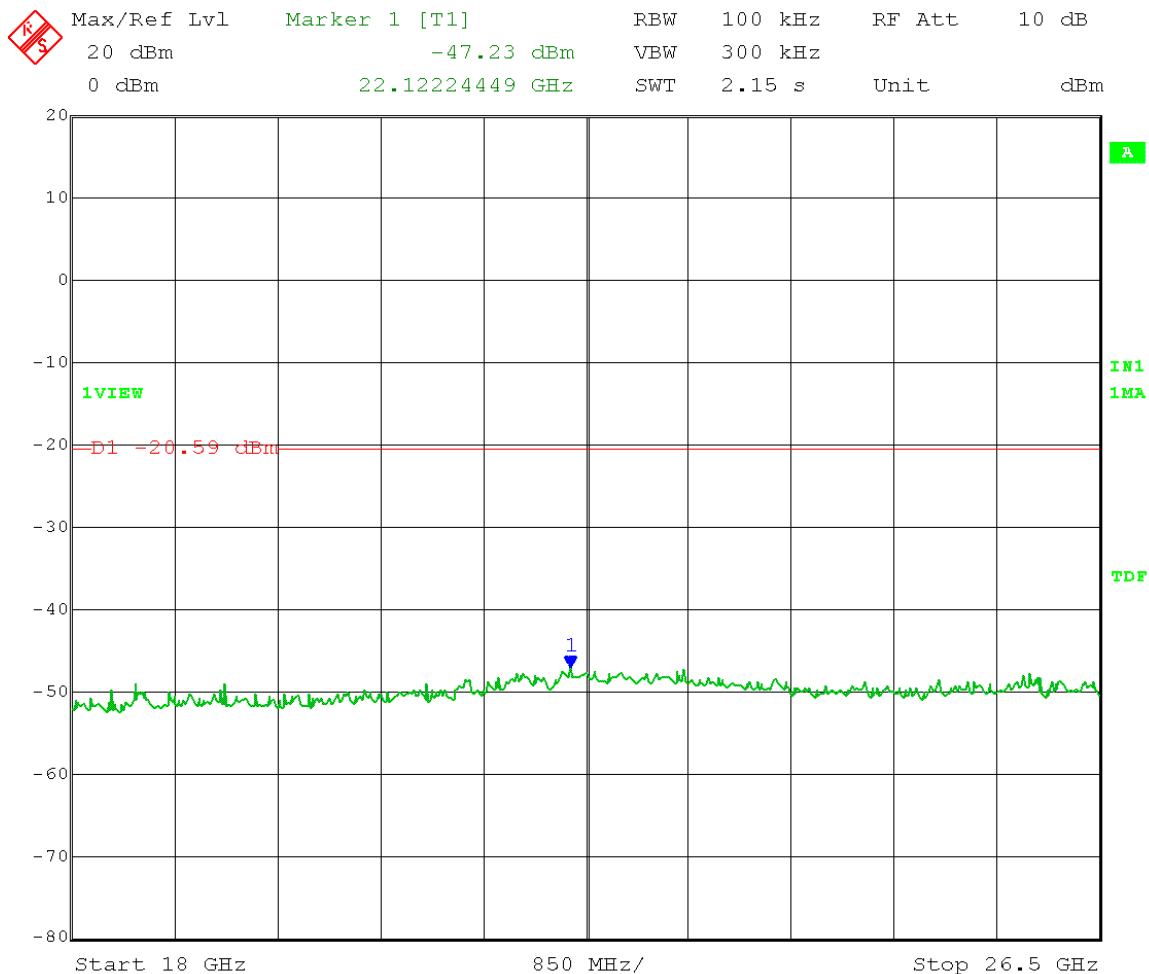
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm
 Frequency Range: 7 – 18 GHz



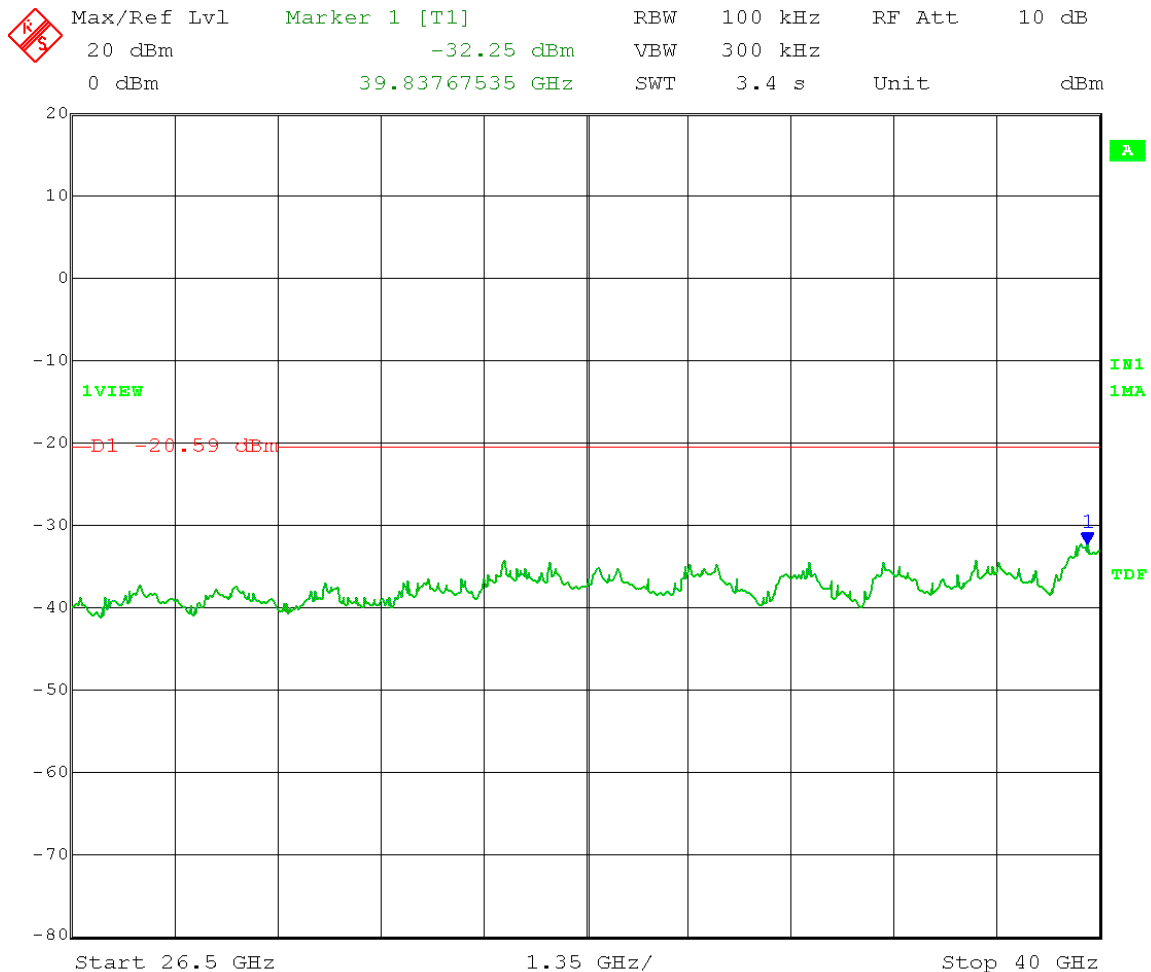
Date: 24.MAR.2014 16:26:35

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm
 Frequency Range: 18 – 26.5 GHz



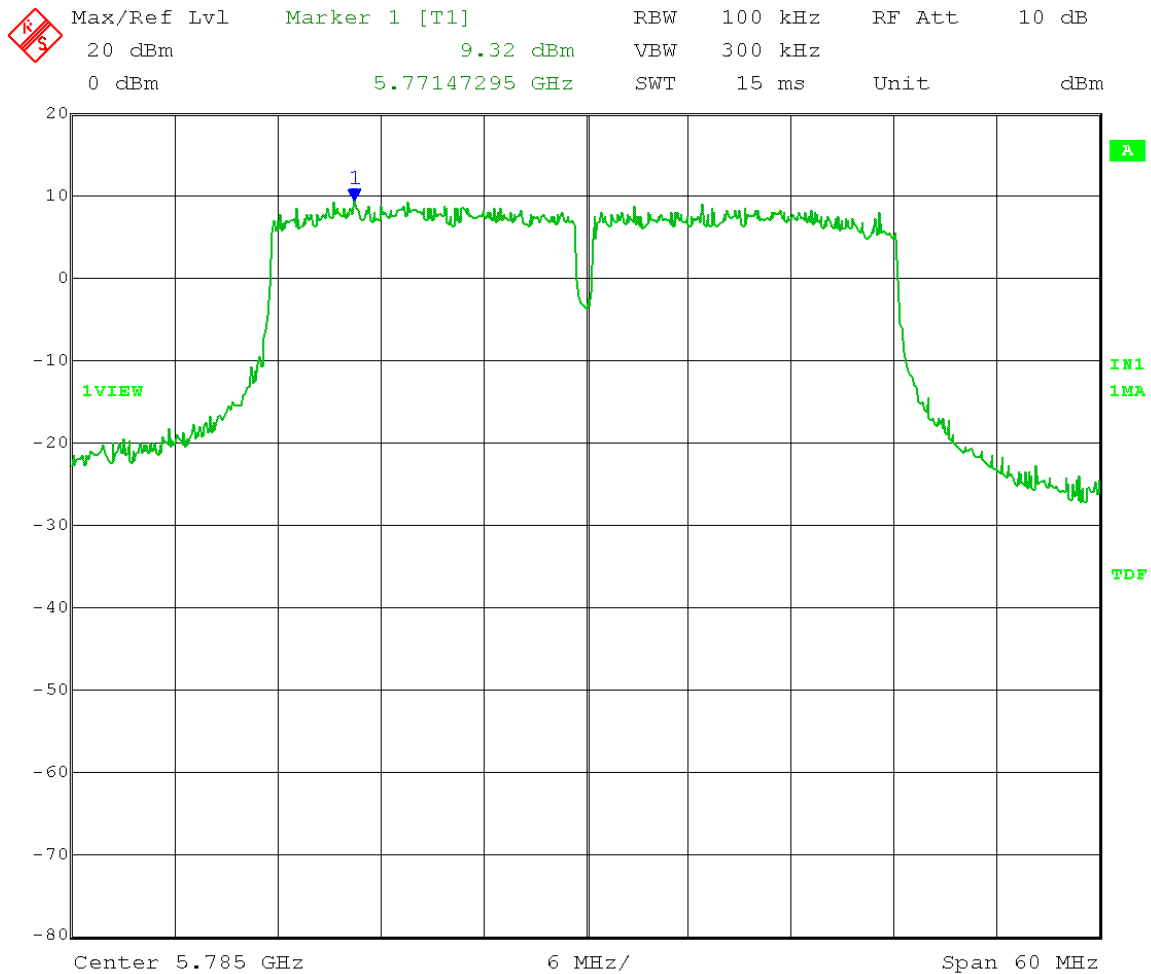
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.41 dBm – 30 dB = -20.59 dBm
 Frequency Range: 26.5 – 40 GHz



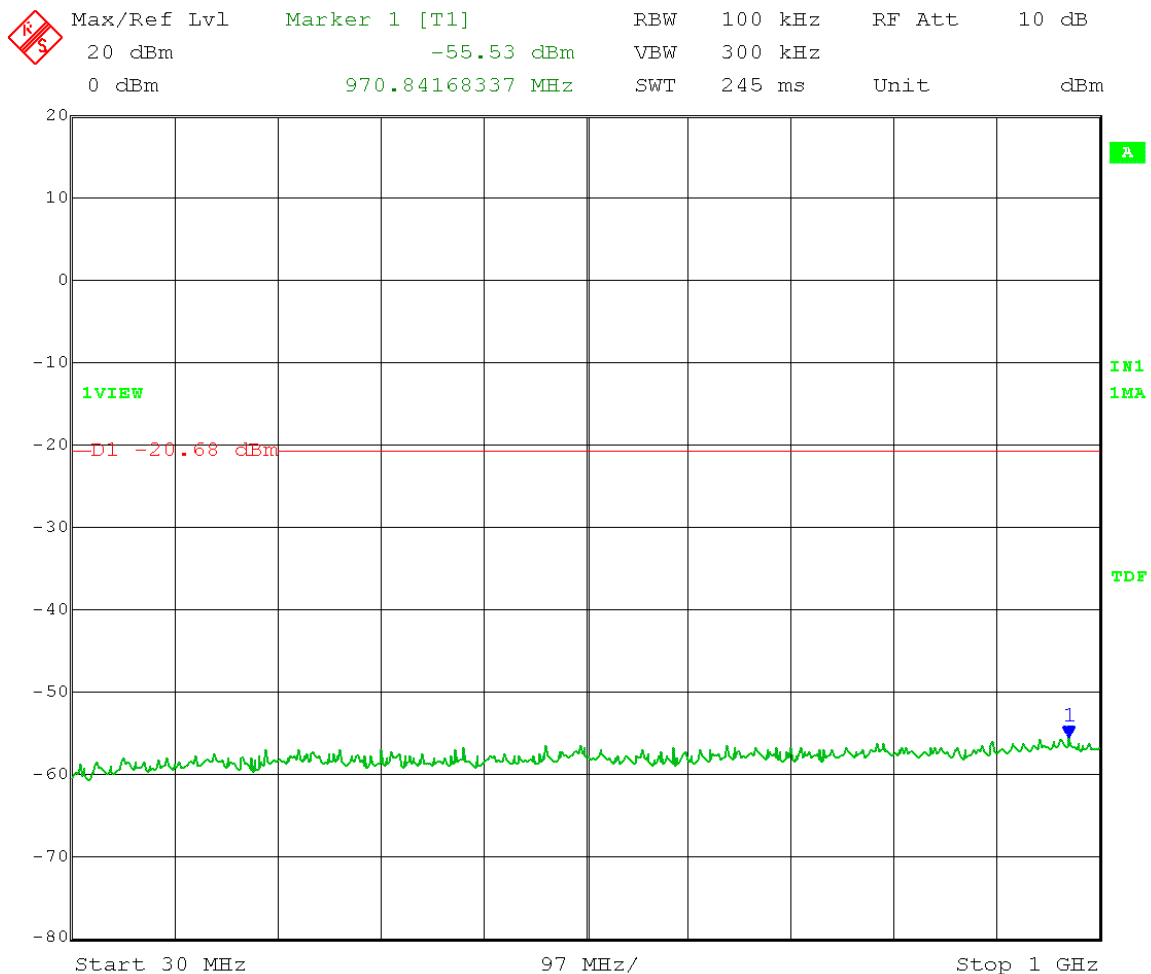
Date: 24.MAR.2014 16:30:48

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = 9.32 dBm – 30 dB = -20.68 dBm



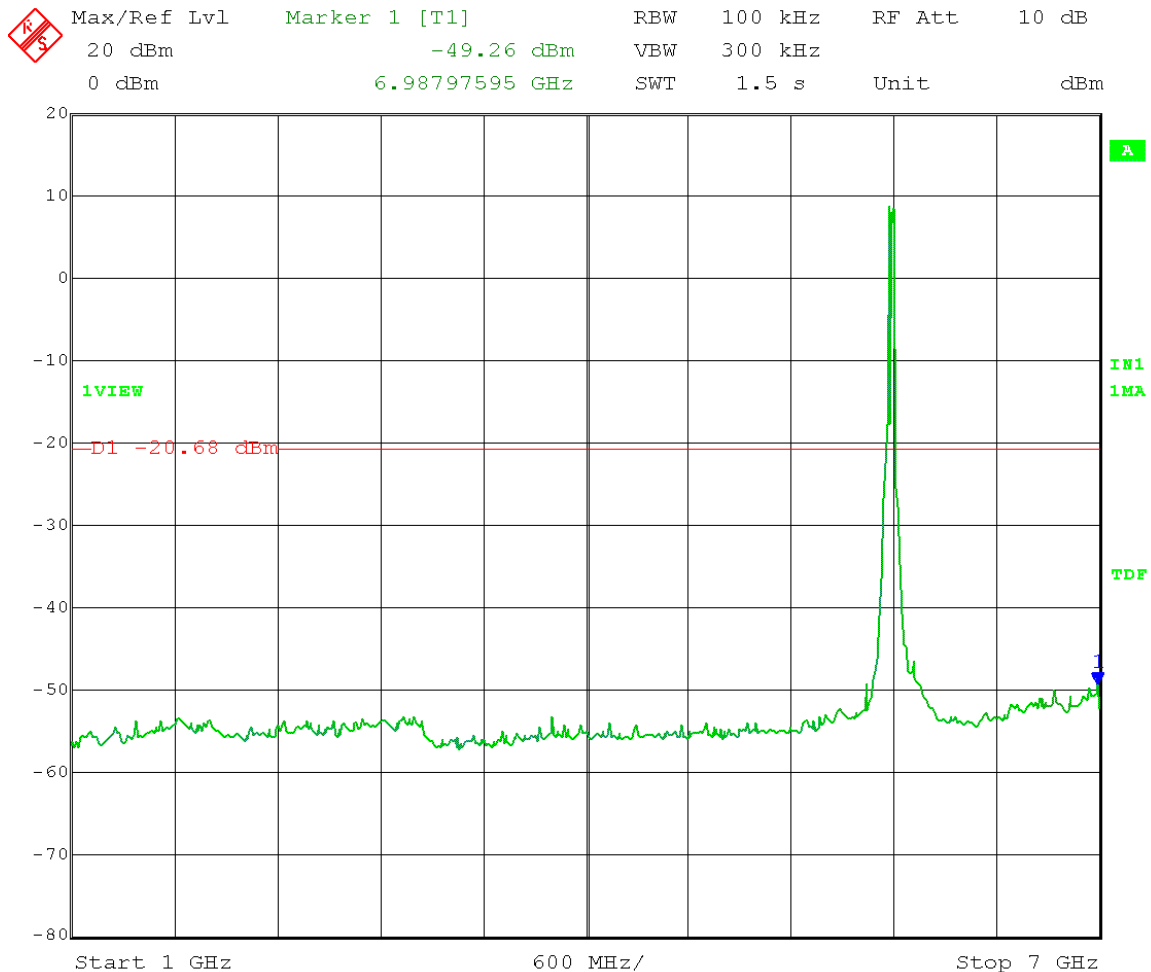
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Test Date: 03-24-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Mid Channel Transmit = 5.785 GHz
Output power setting 28.5 Point-to-Point mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = 9.32 dBm – 30 dB = -20.68 dBm
Frequency Range: 30 – 1000 MHz



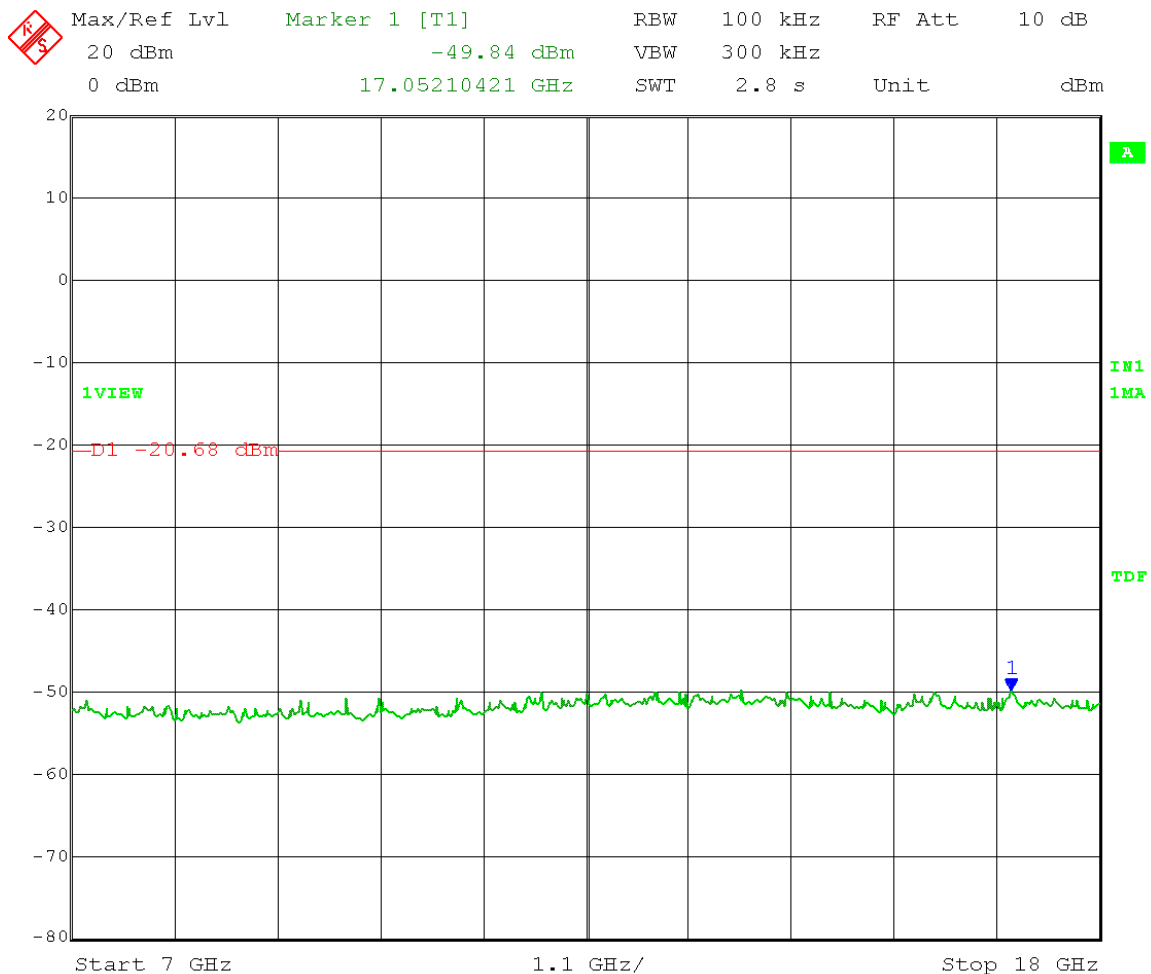
Date: 24.MAR.2014 16:19:39

Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.32 dBm – 30 dB = -20.68 dBm
 Frequency Range: 1 – 7 GHz



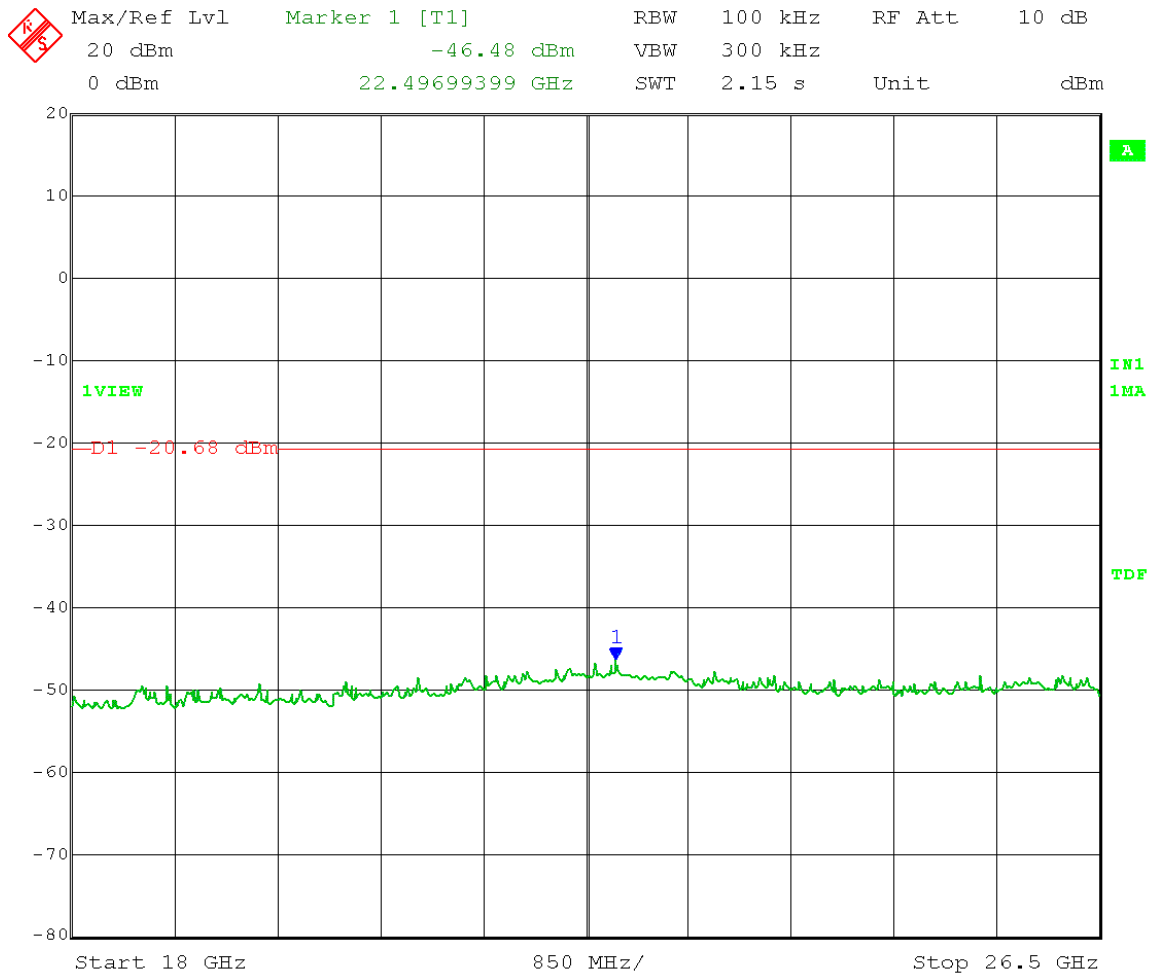
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.32 dBm – 30 dB = -20.68 dBm
 Frequency Range: 7 – 18 GHz



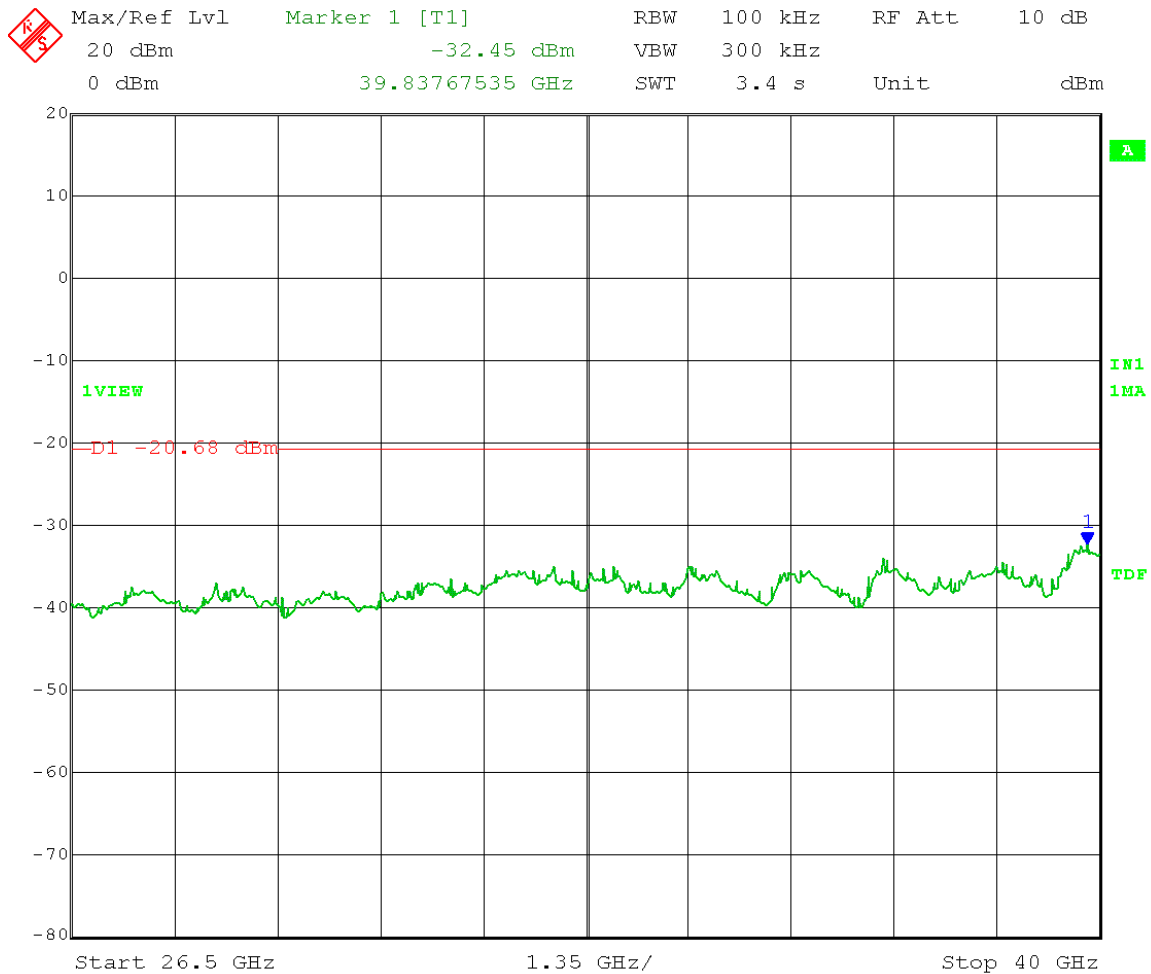
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.32 dBm – 30 dB = -20.68 dBm
 Frequency Range: 18 – 26.5 GHz



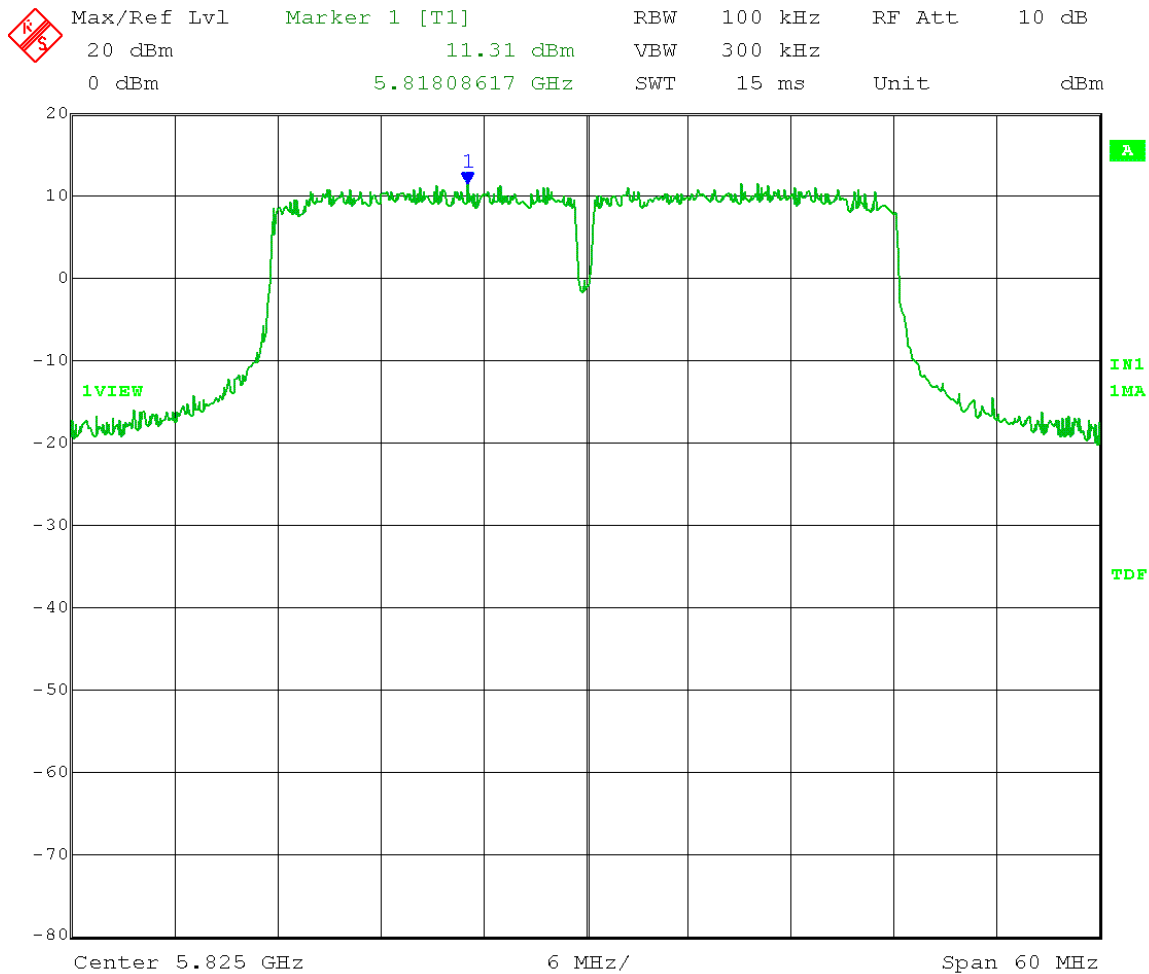
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Test Date: 03-24-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 9.32 dBm – 30 dB = -20.68 dBm
 Frequency Range: 26.5 – 40 GHz



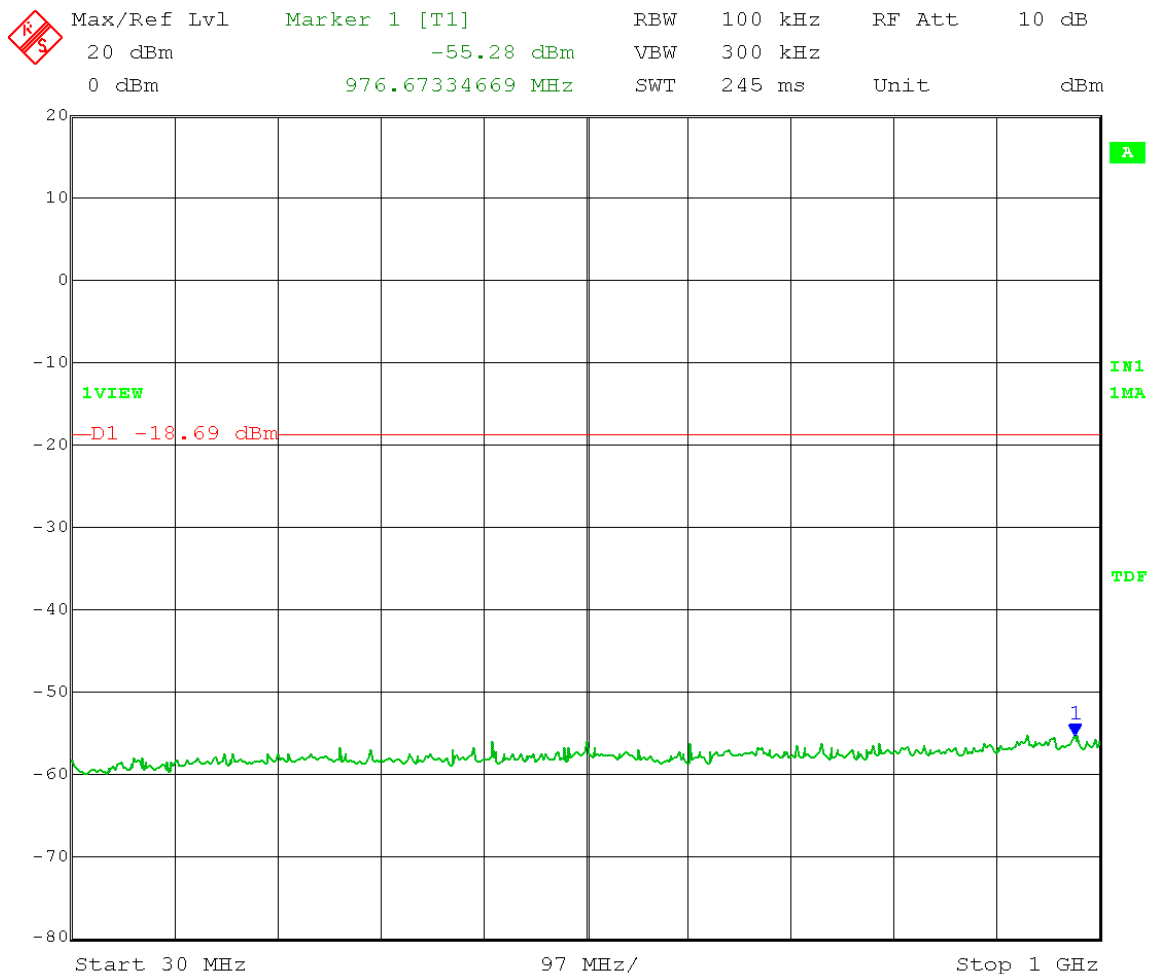
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = 11.31 dBm – 30 dB = -18.69 dBm



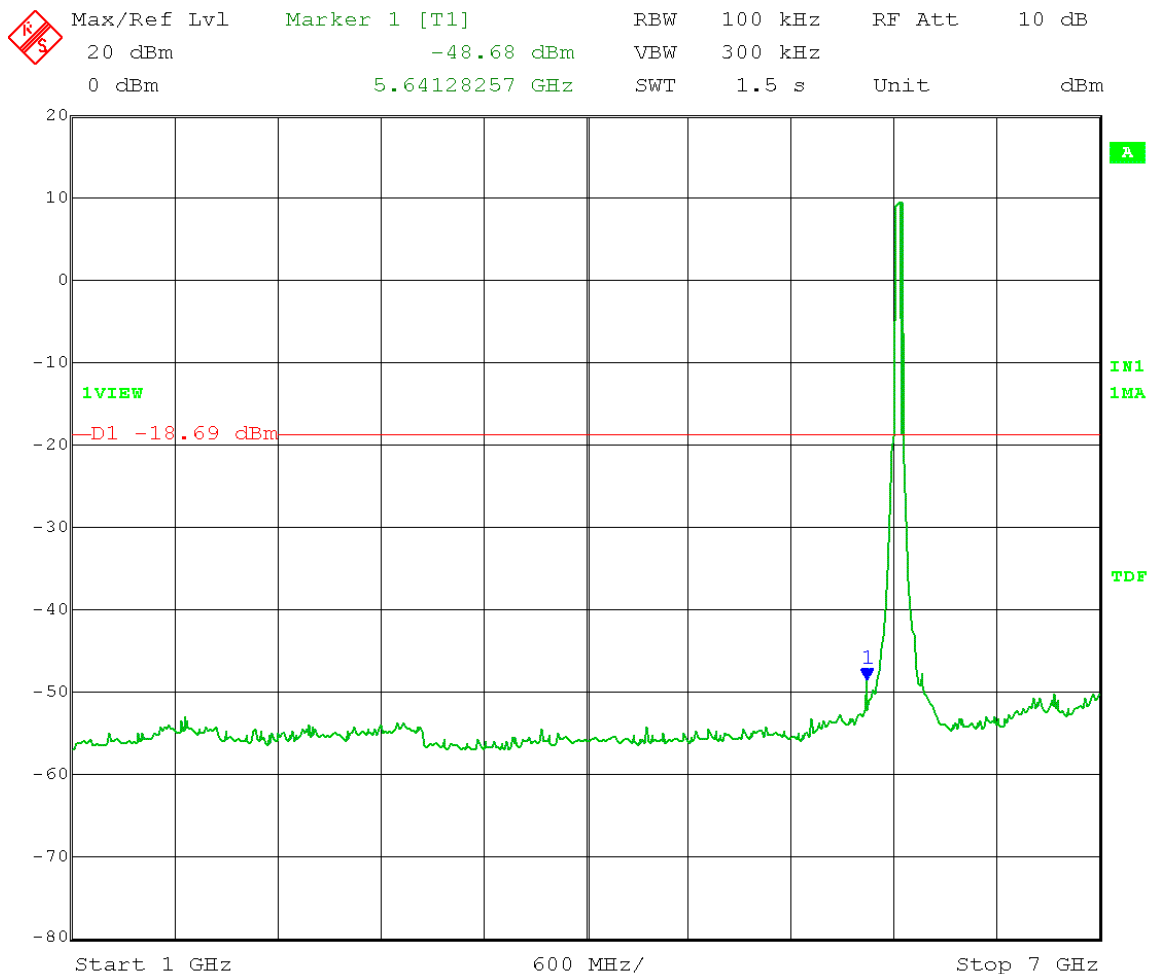
Date: 25.MAR.2014 08:51:13

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 11.31 dBm - 30 dB = -18.69 dBm
 Frequency Range: 30 - 1000 MHz



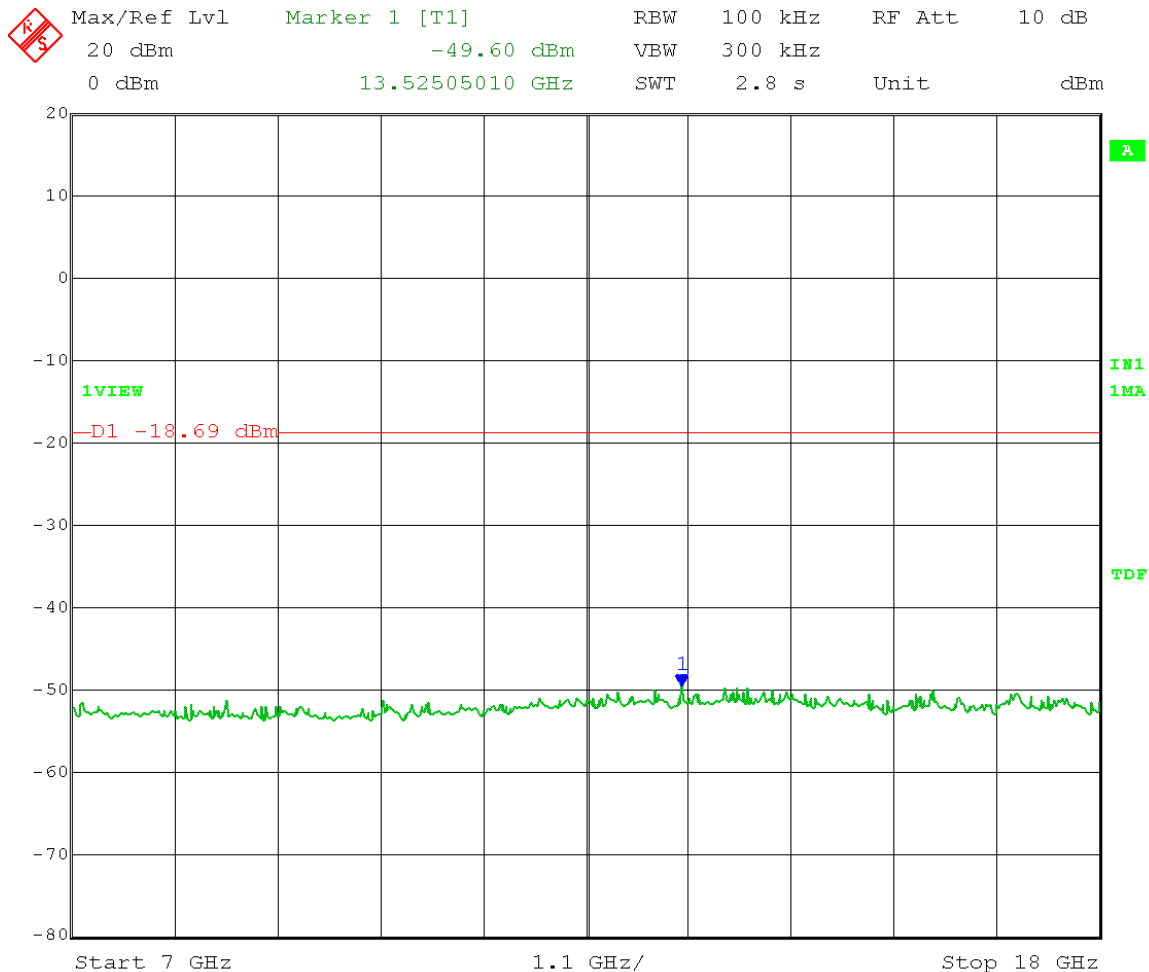
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 11.31 dBm – 30 dB = -18.69 dBm
 Frequency Range: 1 – 7 GHz



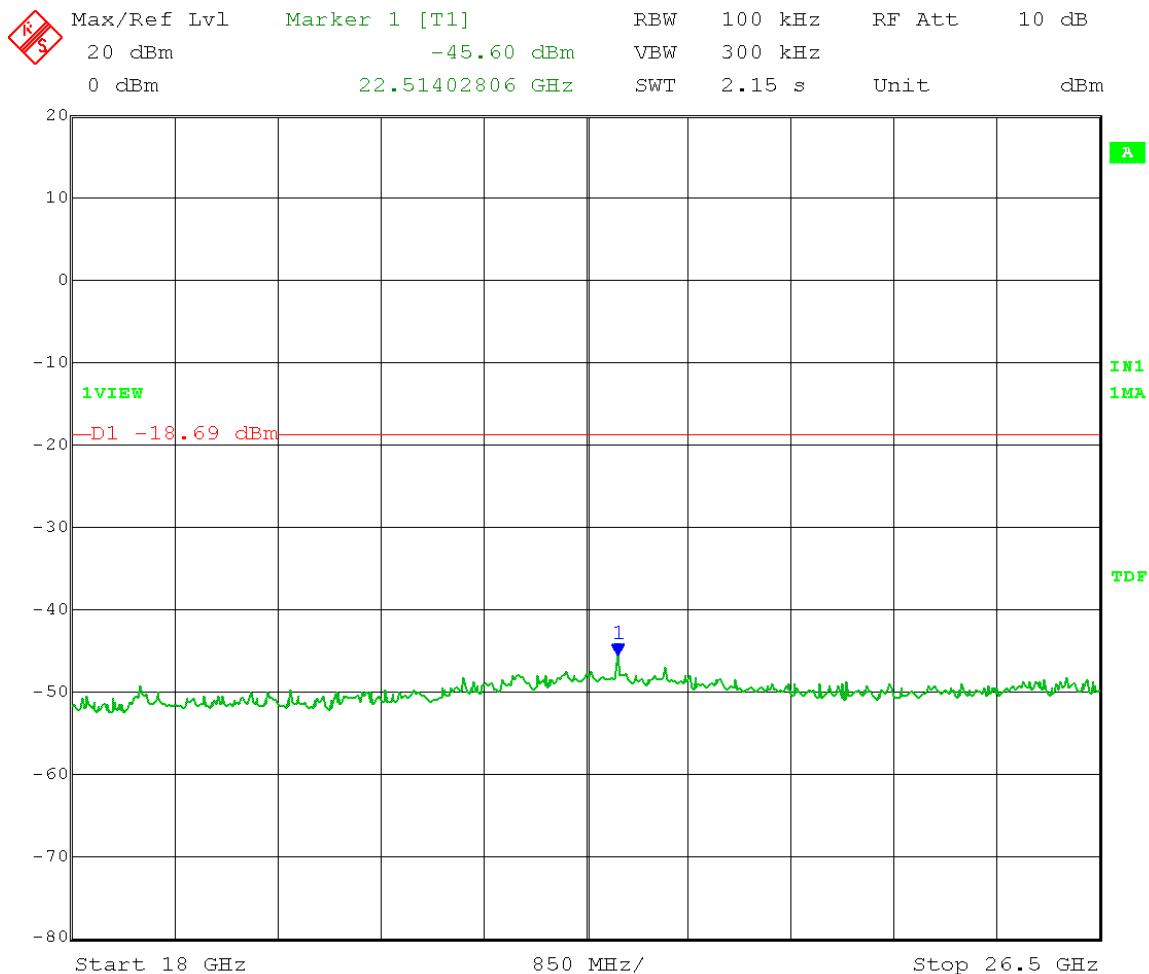
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 11.31 dBm – 30 dB = -18.69 dBm
 Frequency Range: 7 – 18 GHz



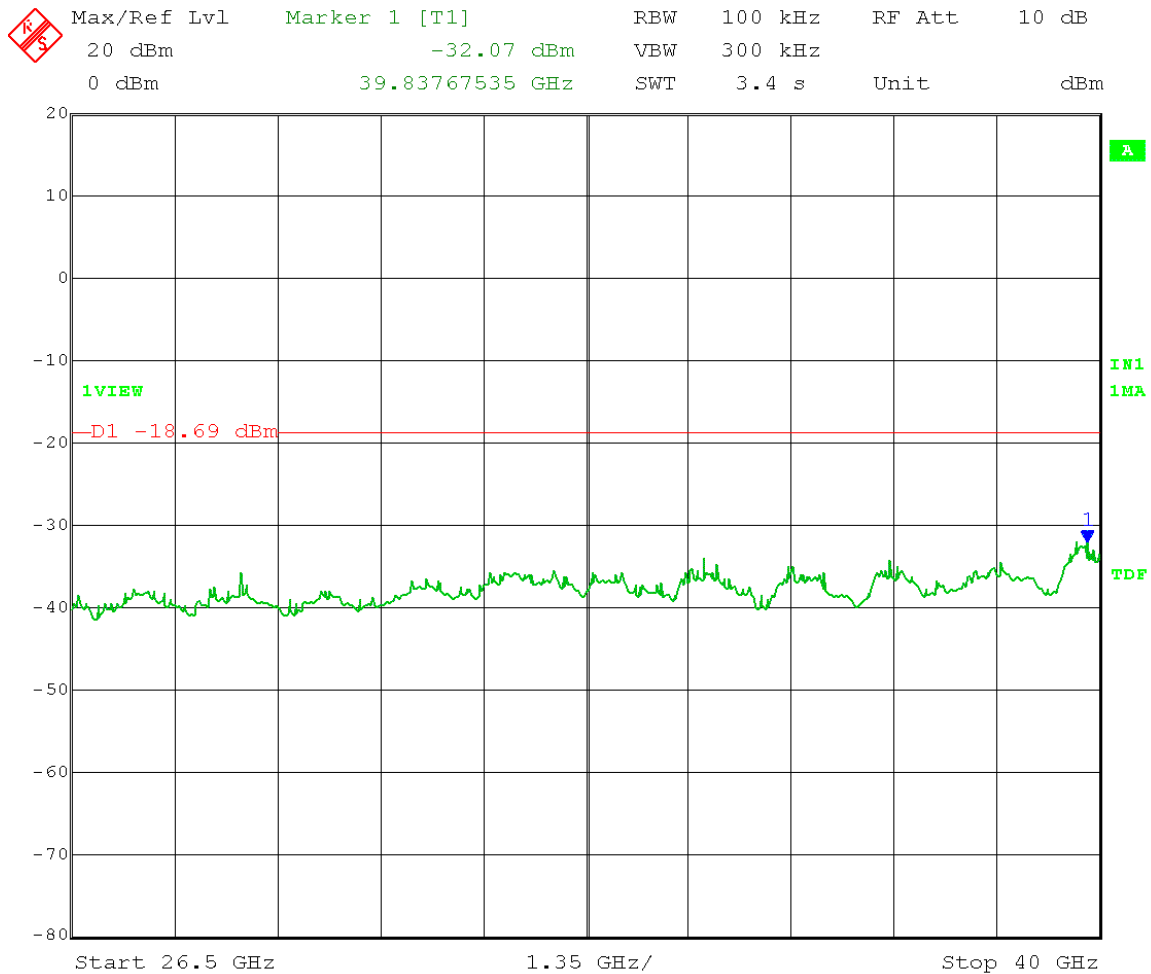
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 5.825 GHz
Output power setting 28.5 Point-to-Point mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = 11.31 dBm - 30 dB = -18.69 dBm
Frequency Range: 18 - 26.5 GHz



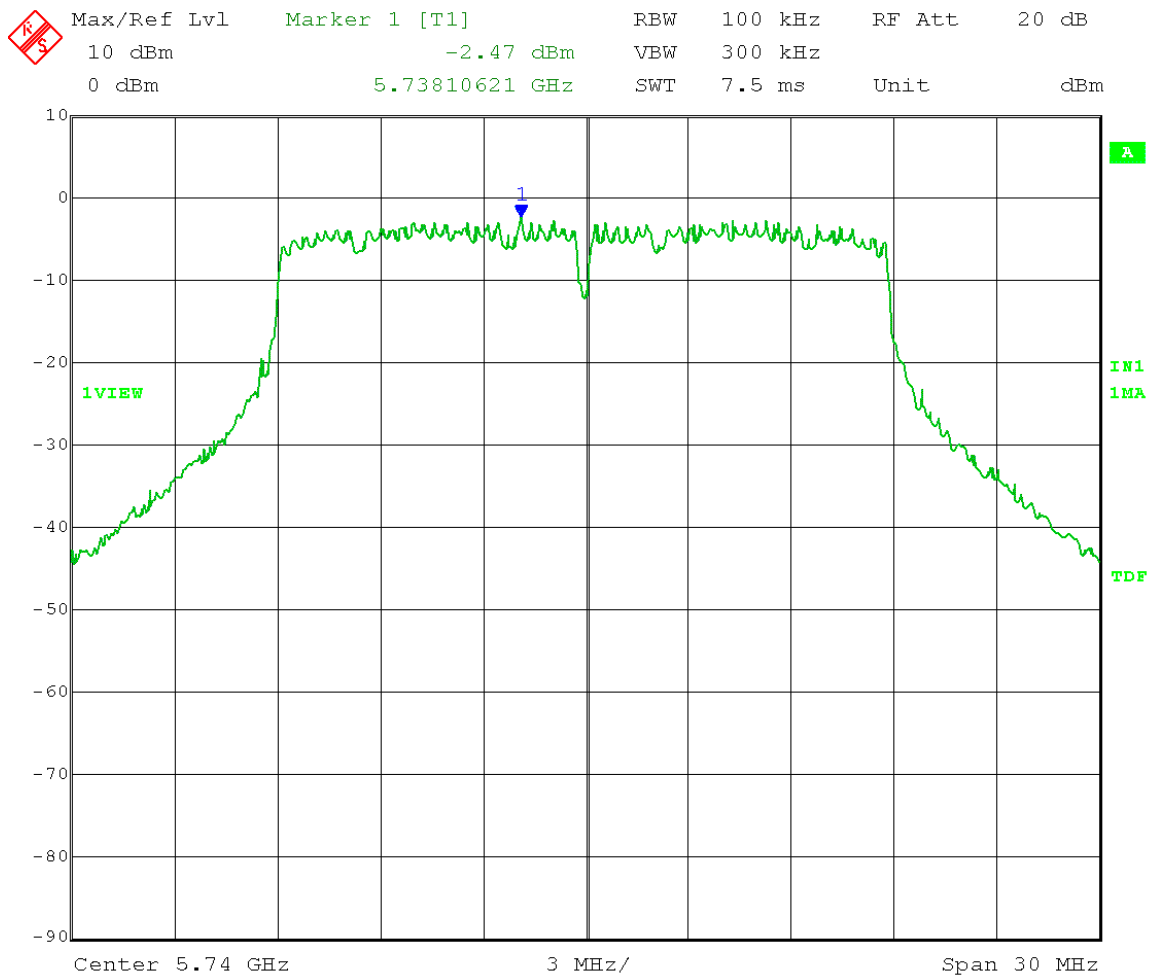
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 28.5 Point-to-Point mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = 11.31 dBm - 30 dB = -18.69 dBm
 Frequency Range: 26.5 - 40 GHz



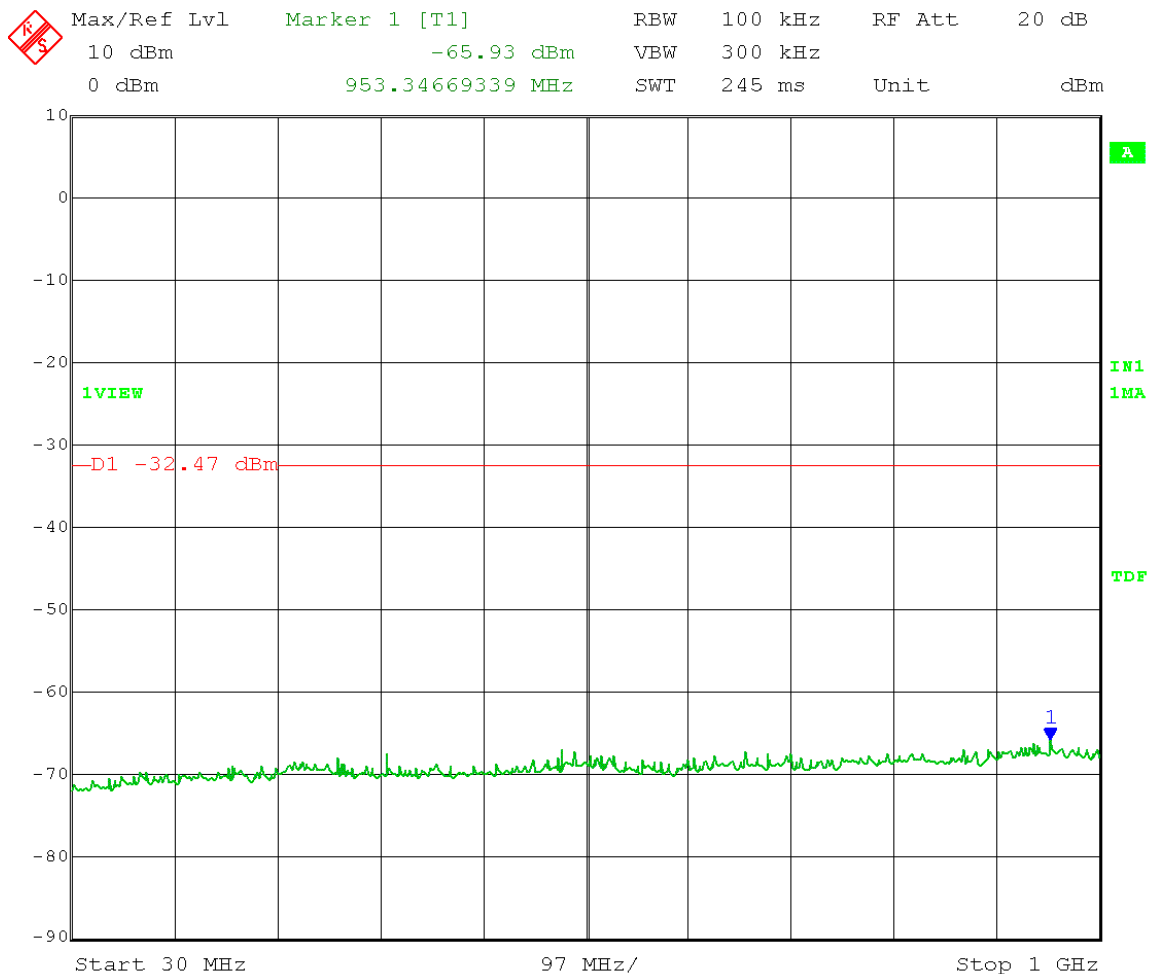
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Reference Level measurement
Limit = -2.47 dBm - 30 dB = -32.47 dBm



Date: 25.MAR.2014 11:10:55

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -2.47 dBm - 30 dB = -32.47 dBm
Frequency Range: 30 - 1000 MHz



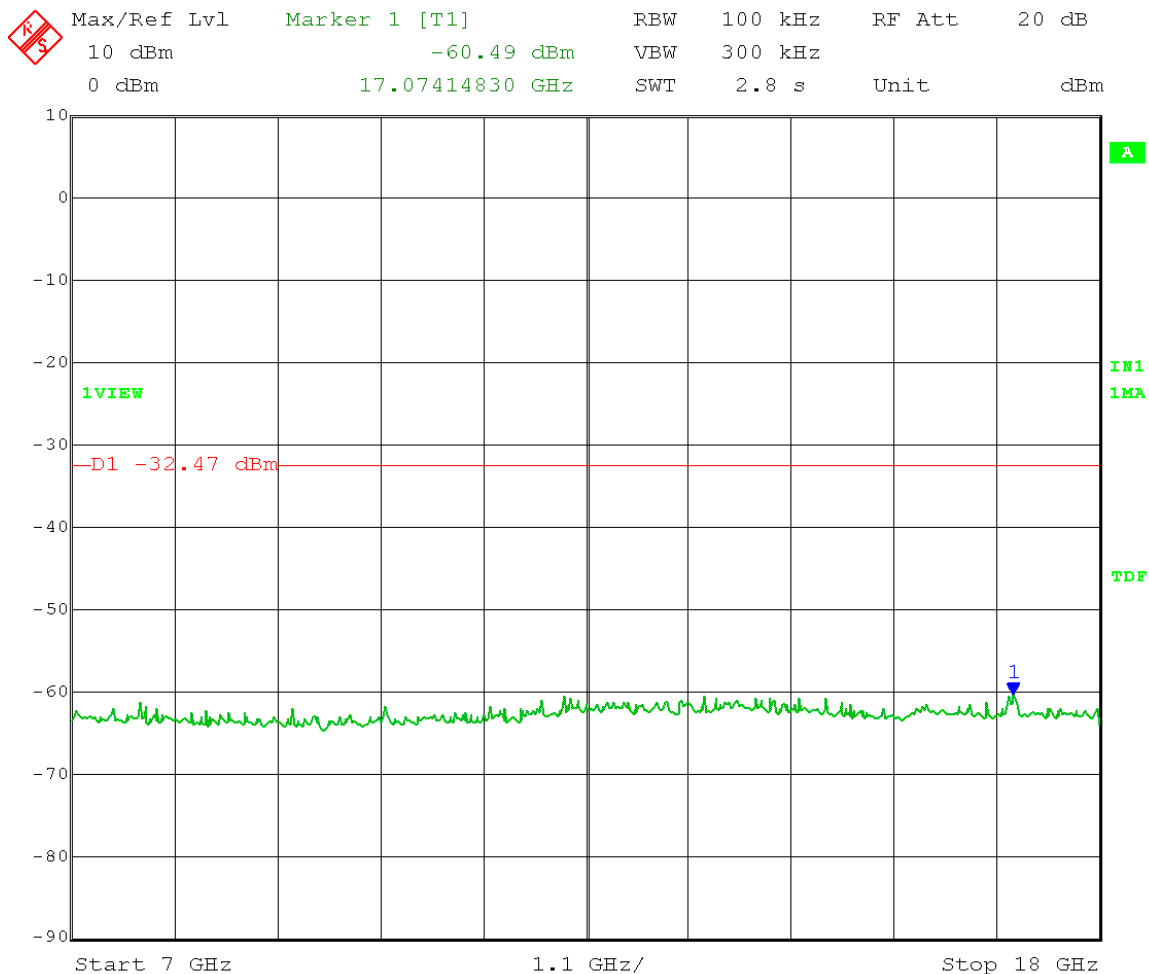
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -2.47 dBm - 30 dB = -32.47 dBm
 Frequency Range: 1 - 7 GHz



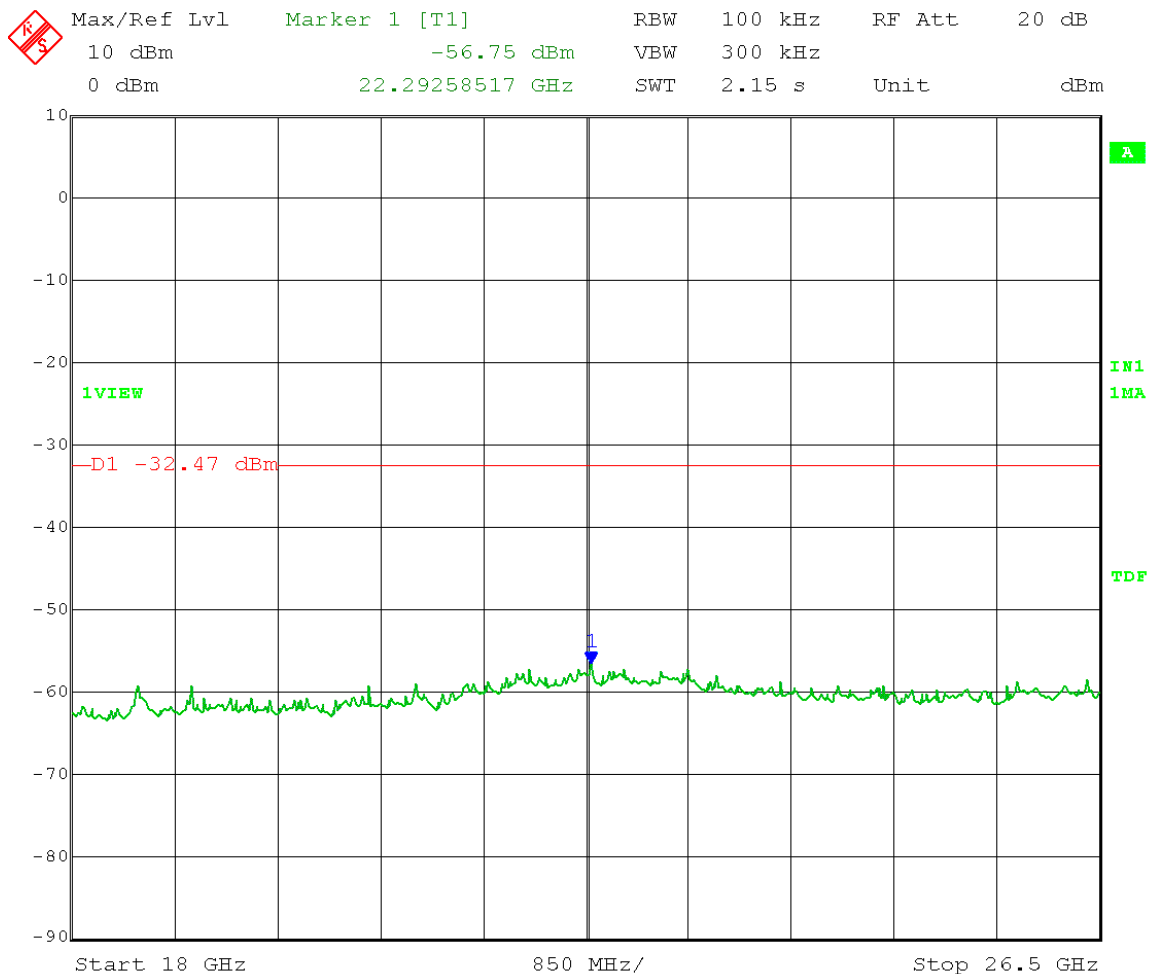
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -2.47 dBm - 30 dB = -32.47 dBm
Frequency Range: 7 - 18 GHz



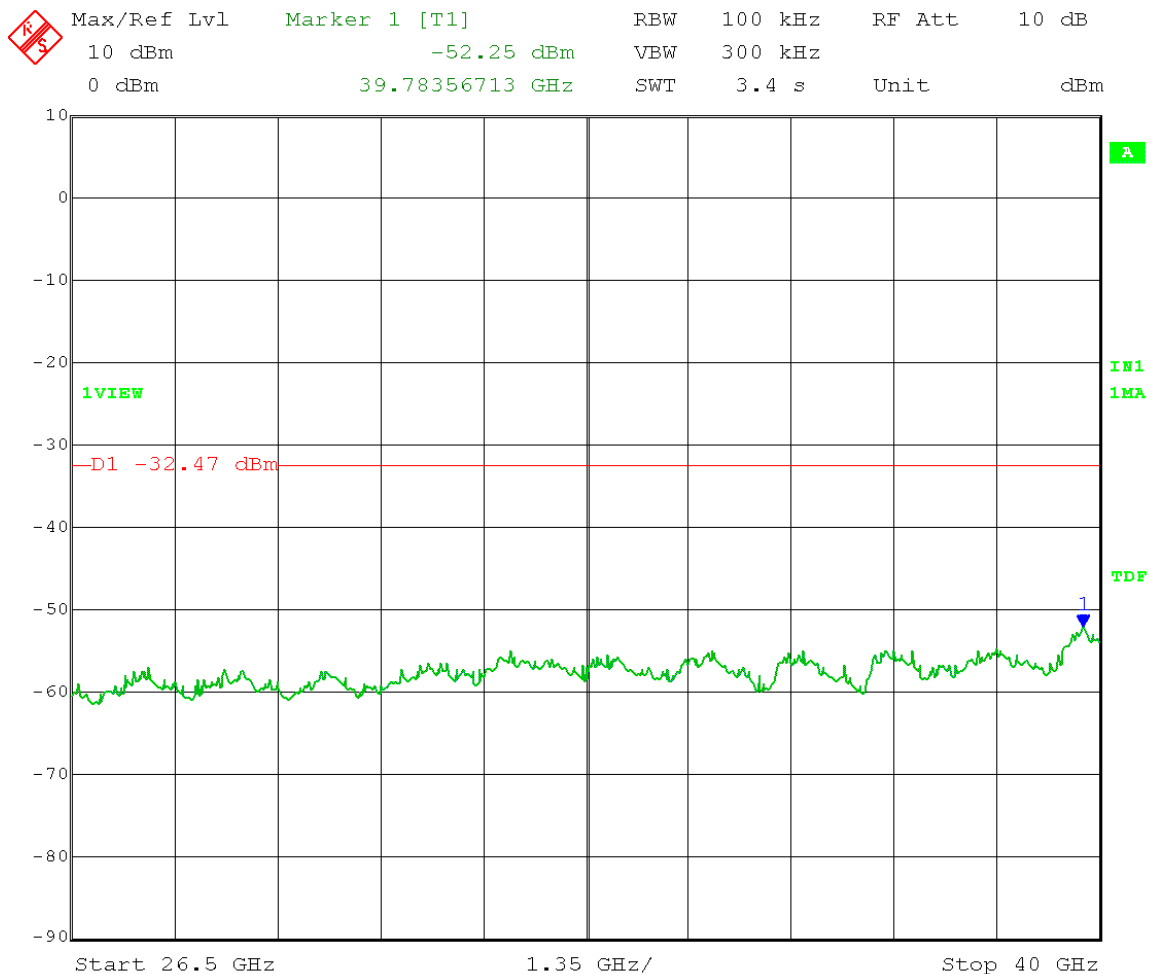
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -2.47 dBm - 30 dB = -32.47 dBm
Frequency Range: 18 - 26.5 GHz



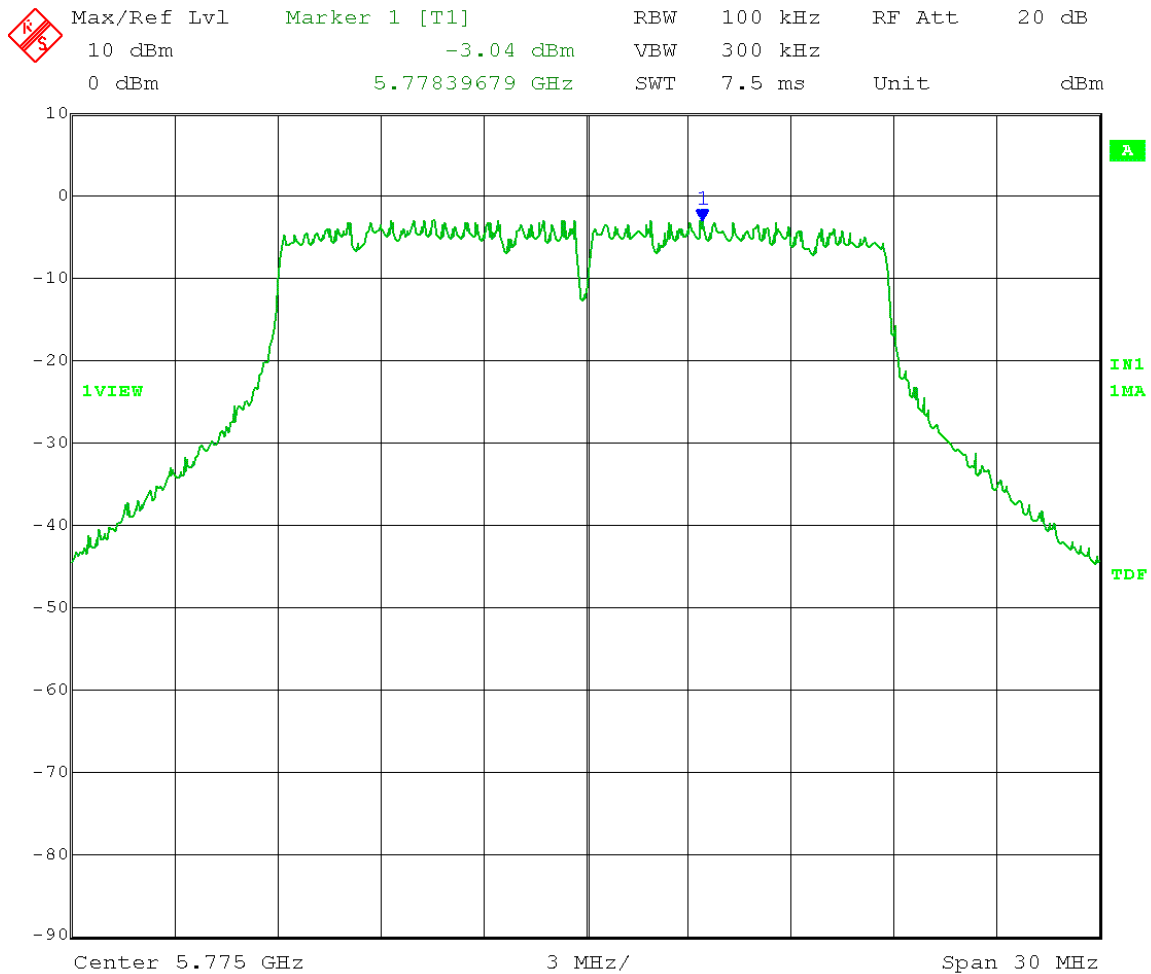
Date: 25.MAR.2014 11:16:08

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -2.47 dBm - 30 dB = -32.47 dBm
Frequency Range: 26.5 - 40 GHz



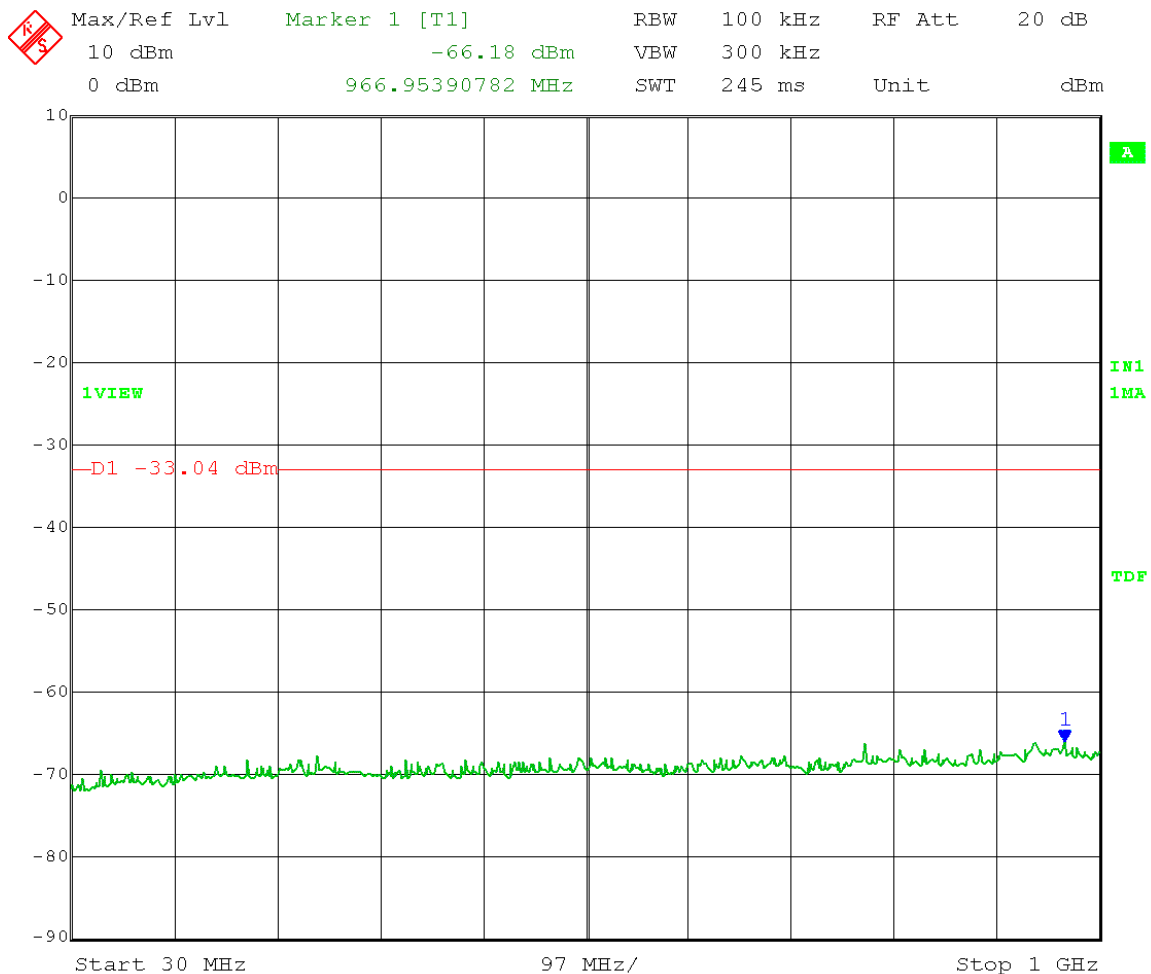
Date: 25.MAR.2014 11:17:59

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm



Date: 25.MAR.2014 10:58:03

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm
 Frequency Range: 30 - 1000 MHz



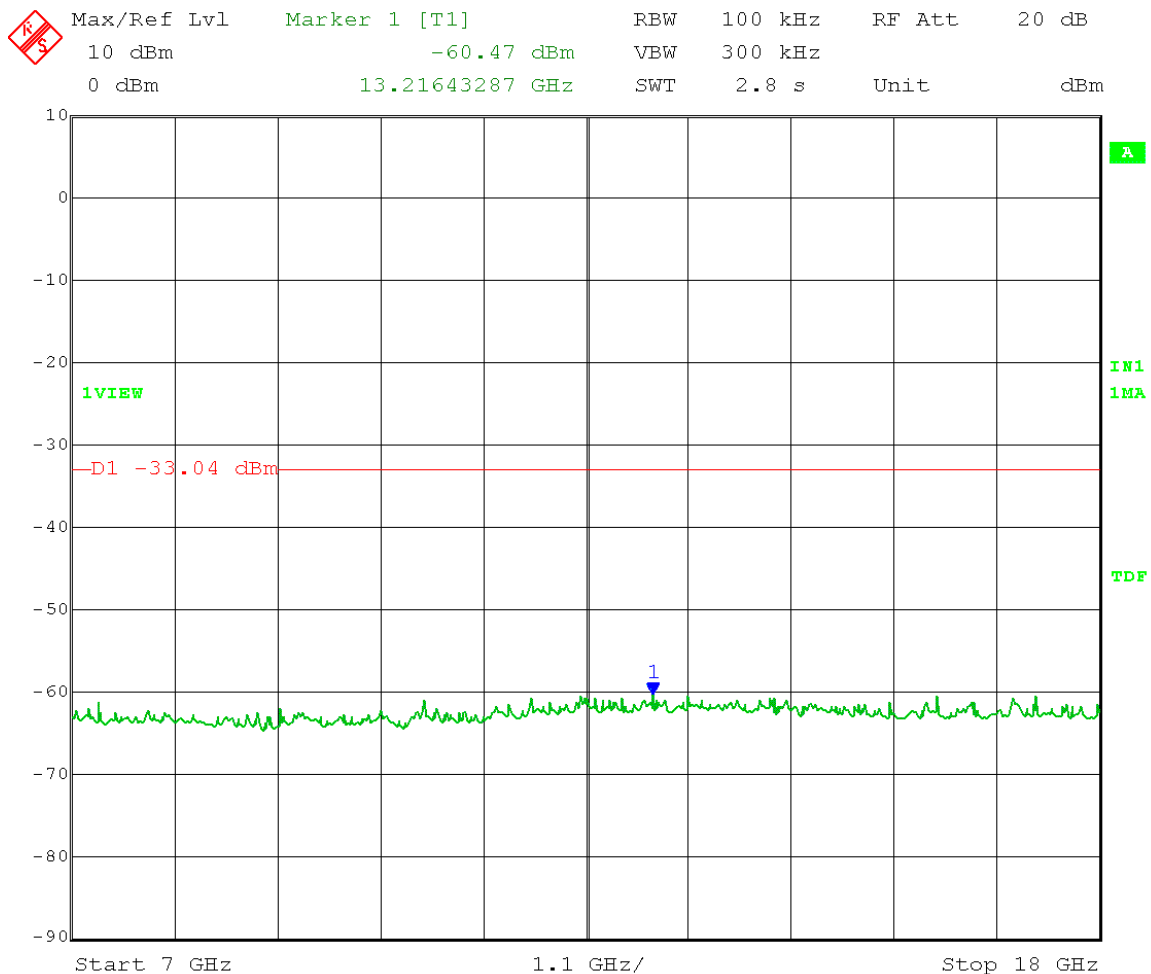
Date: 25.MAR.2014 11:07:26

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm
 Frequency Range: 1 - 7 GHz



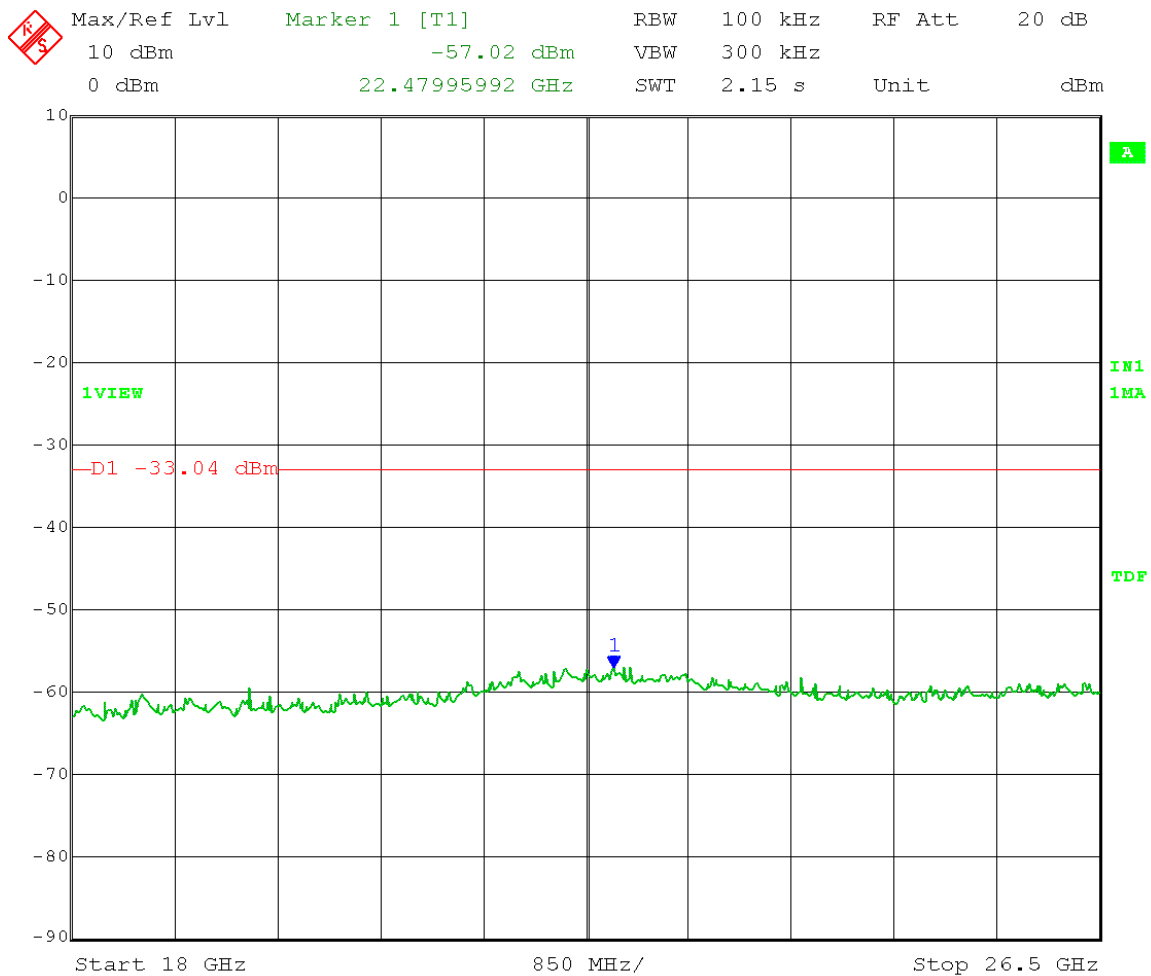
Date: 25.MAR.2014 11:00:43

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm
 Frequency Range: 7 - 18 GHz



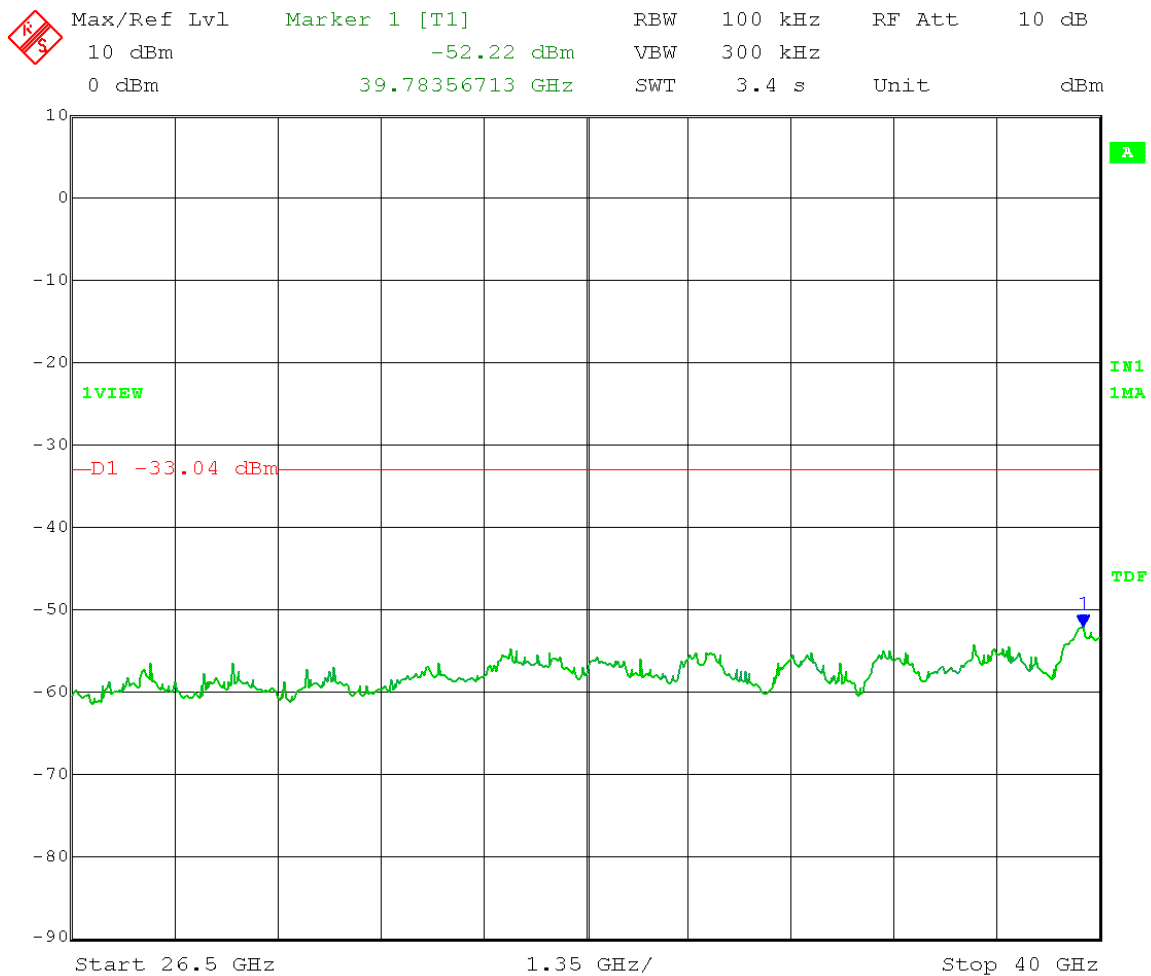
Date: 25.MAR.2014 11:02:39

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm
 Frequency Range: 18 - 26.5 GHz



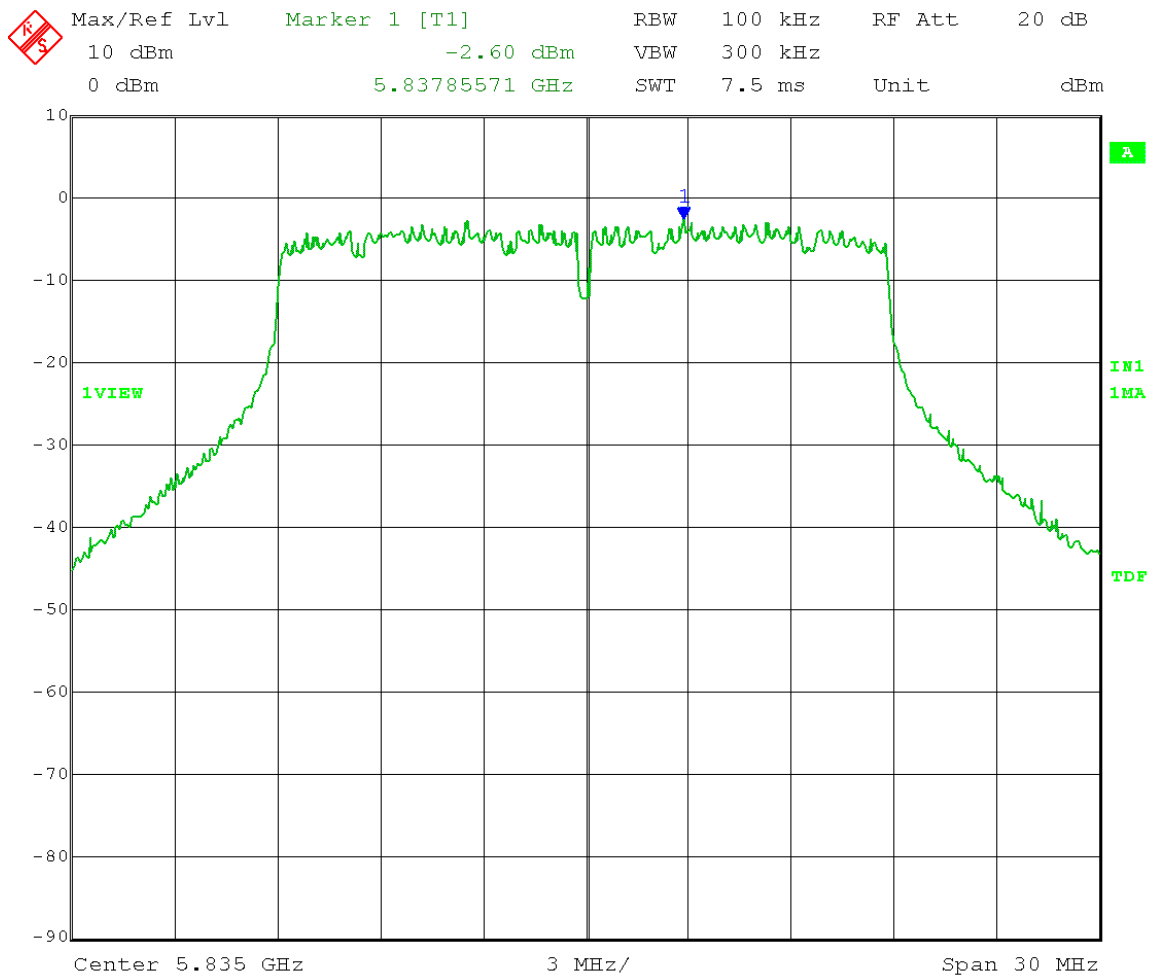
Date: 25.MAR.2014 11:04:31

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -3.04 dBm - 30 dB = -33.04 dBm
 Frequency Range: 26.5 - 40 GHz



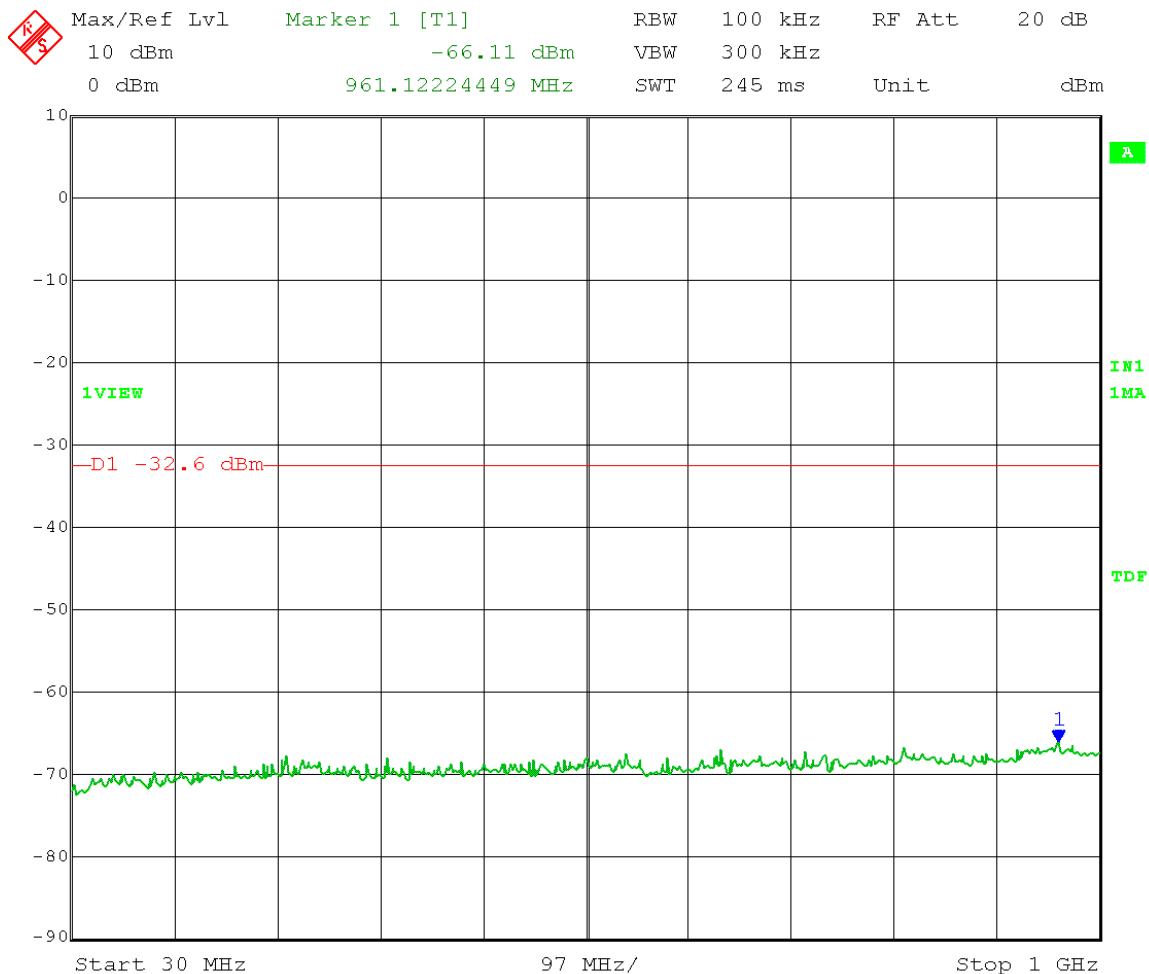
Date: 25.MAR.2014 11:05:59

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = -2.60 dBm – 30 dB = -32.60 dBm



Date: 25.MAR.2014 11:22:57

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -2.60 dBm - 30 dB = -32.60 dBm
 Frequency Range: 30 - 1000 MHz



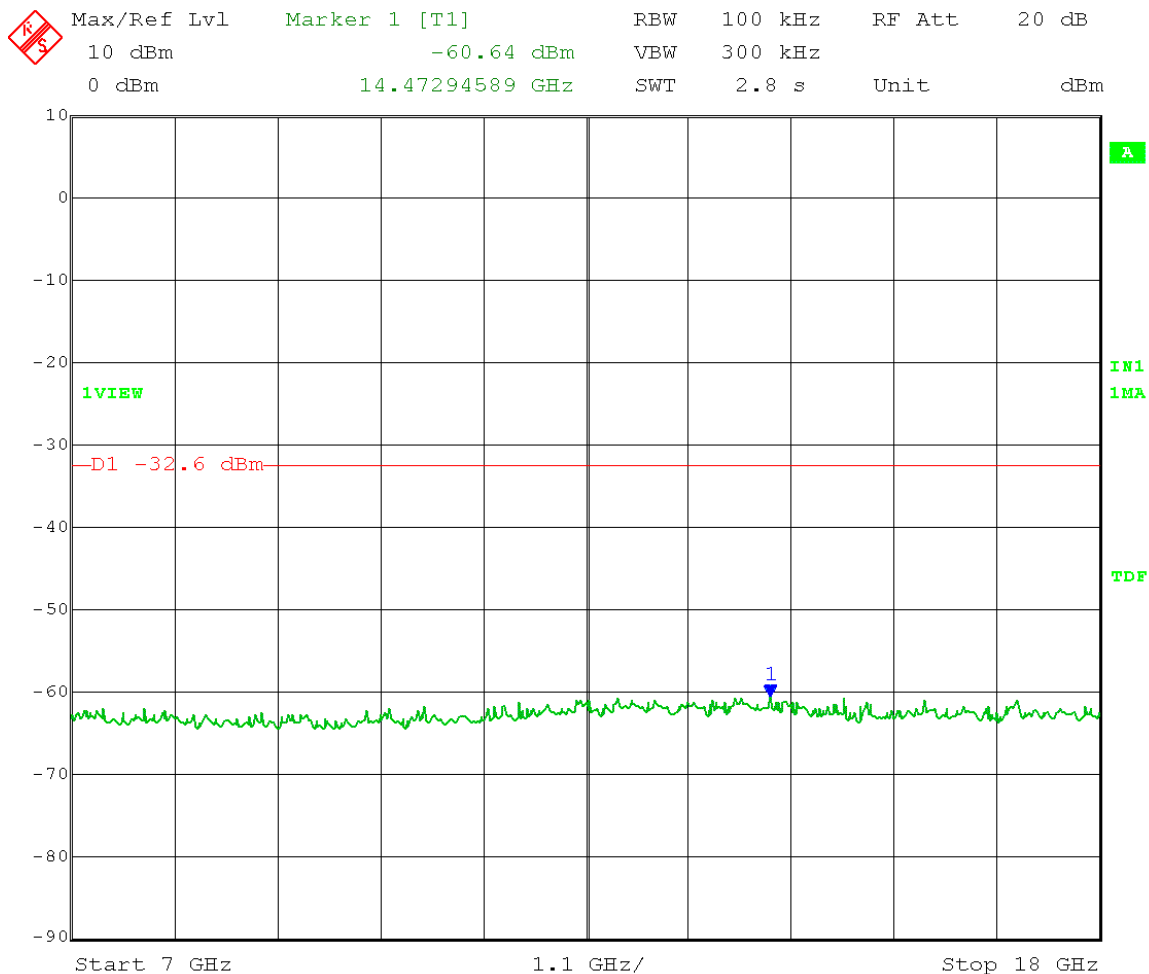
Date: 25.MAR.2014 11:31:40

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -2.60 dBm - 30 dB = -32.60 dBm
 Frequency Range: 1 - 7 GHz



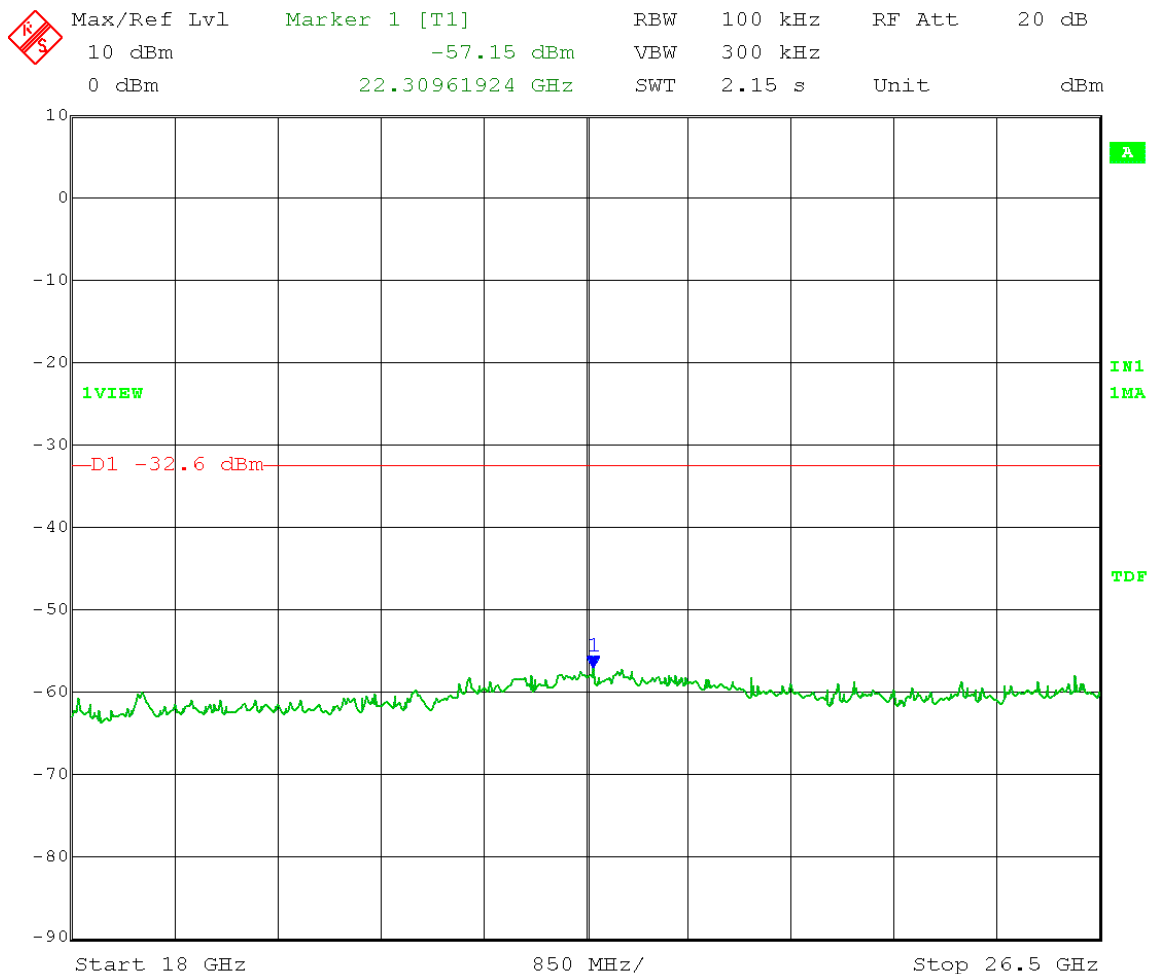
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 5.835 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -2.60 dBm - 30 dB = -32.60 dBm
Frequency Range: 7 - 18 GHz



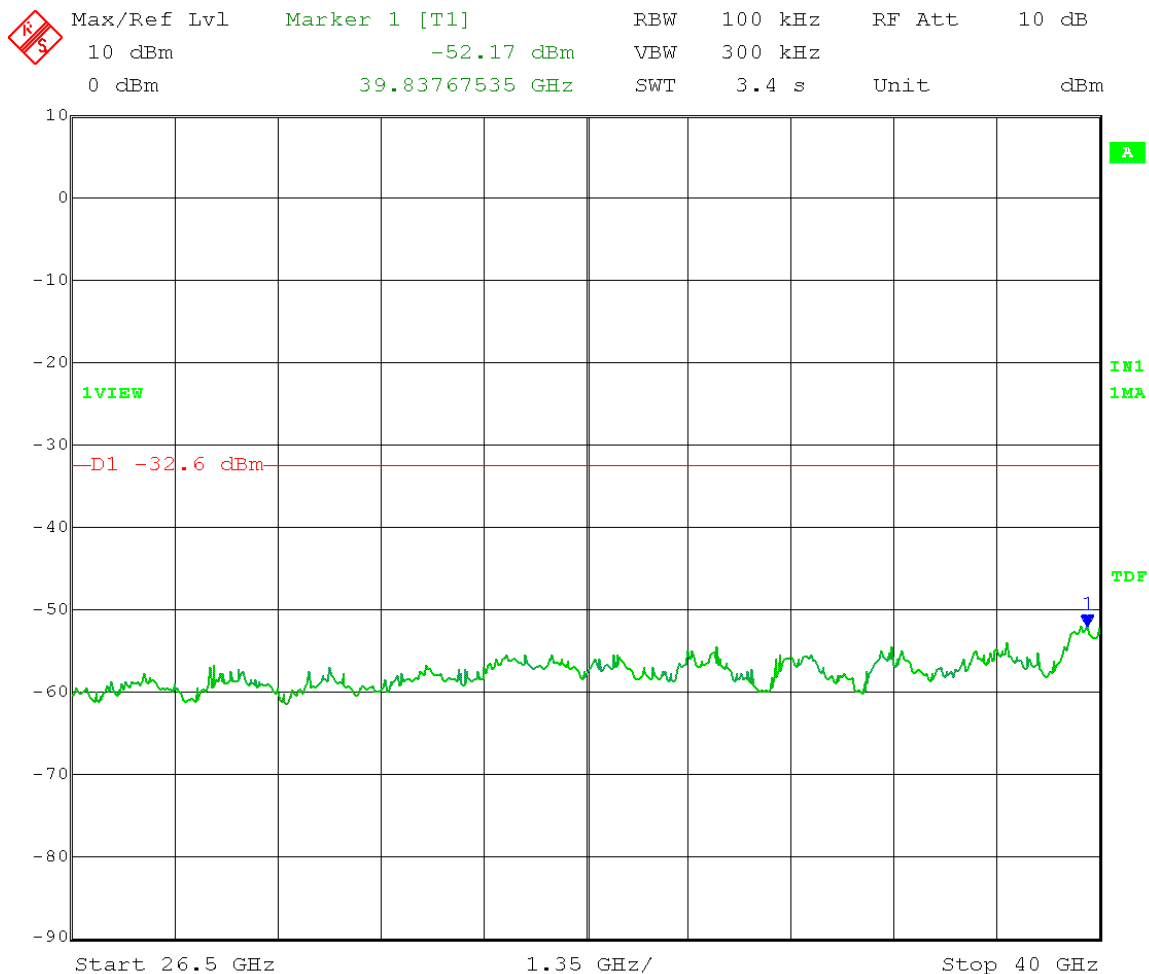
Date: 25.MAR.2014 11:27:15

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -2.60 dBm - 30 dB = -32.60 dBm
 Frequency Range: 18 - 26.5 GHz



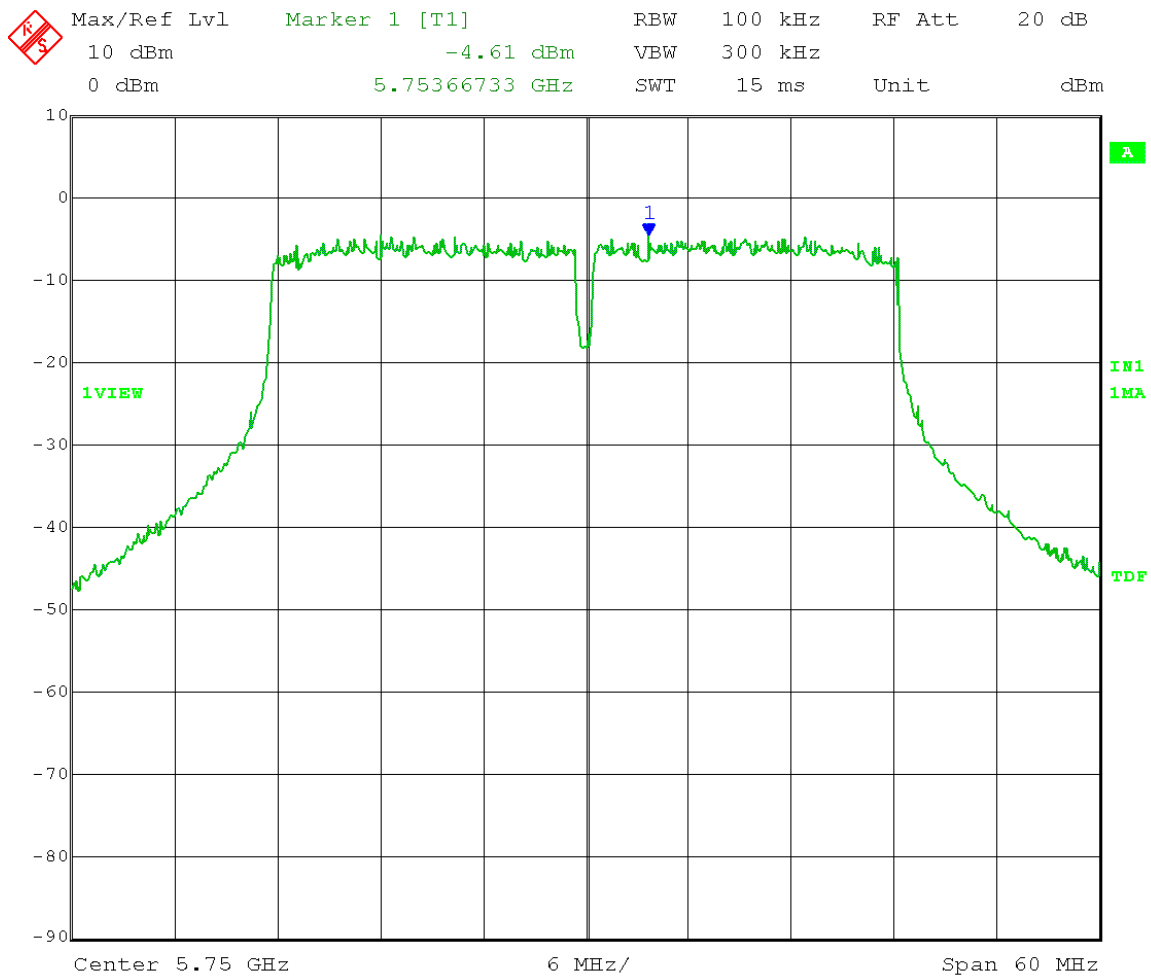
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -2.60 dBm - 30 dB = -32.60 dBm
 Frequency Range: 26.5 - 40 GHz



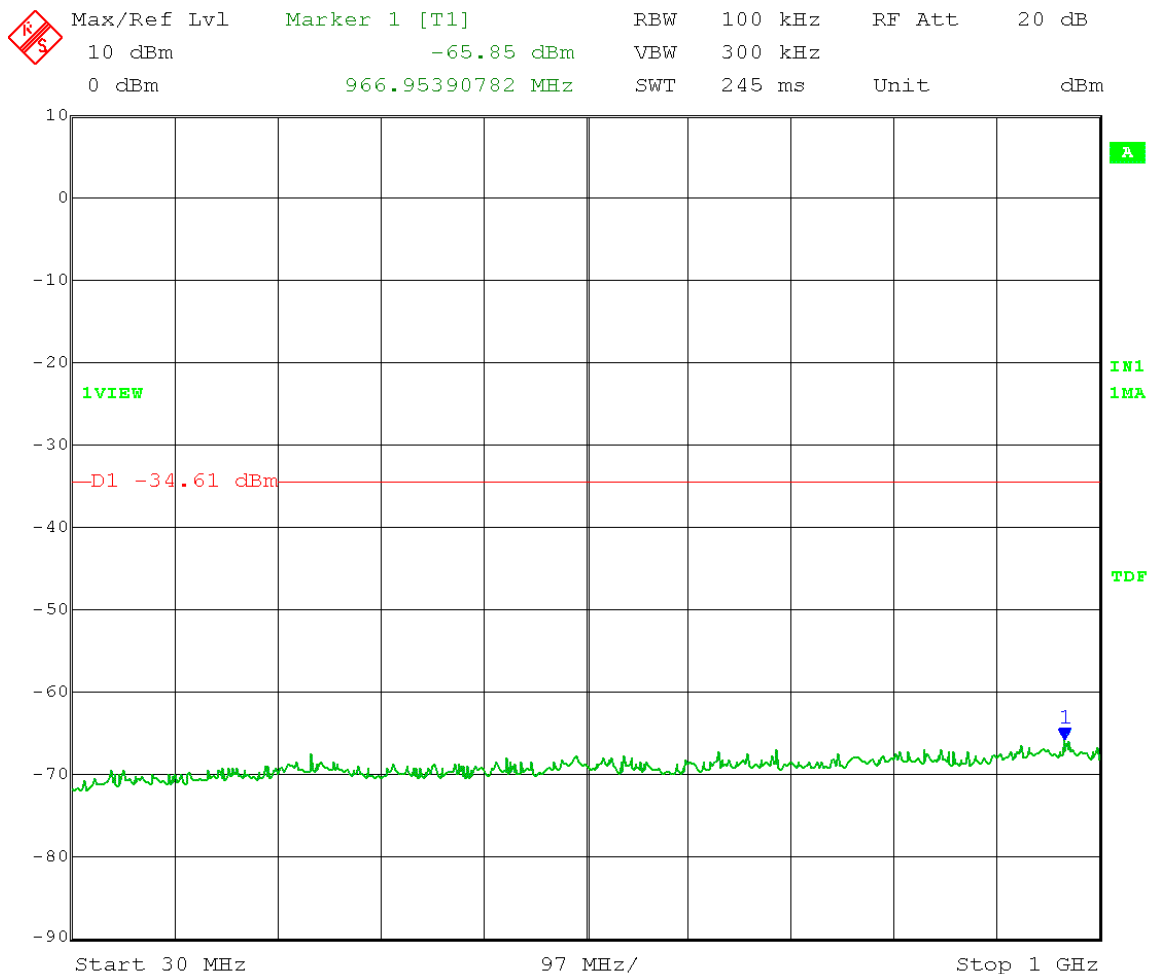
Date: 25.MAR.2014 11:30:02

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -4.61 dBm - 30 dB = -34.61 dBm



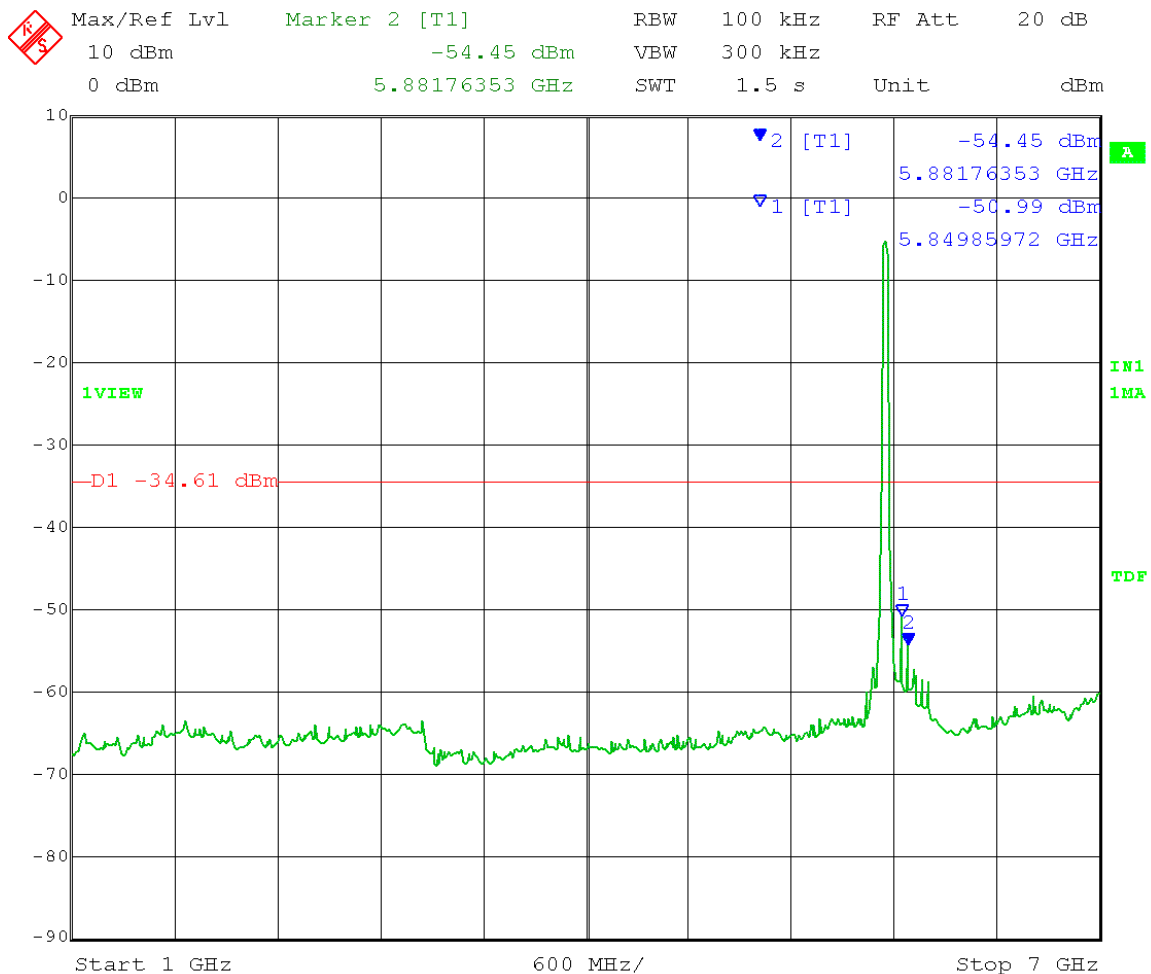
Date: 25.MAR.2014 12:50:59

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -4.61 dBm - 30 dB = -34.61 dBm
 Frequency Range: 30 - 1000 MHz



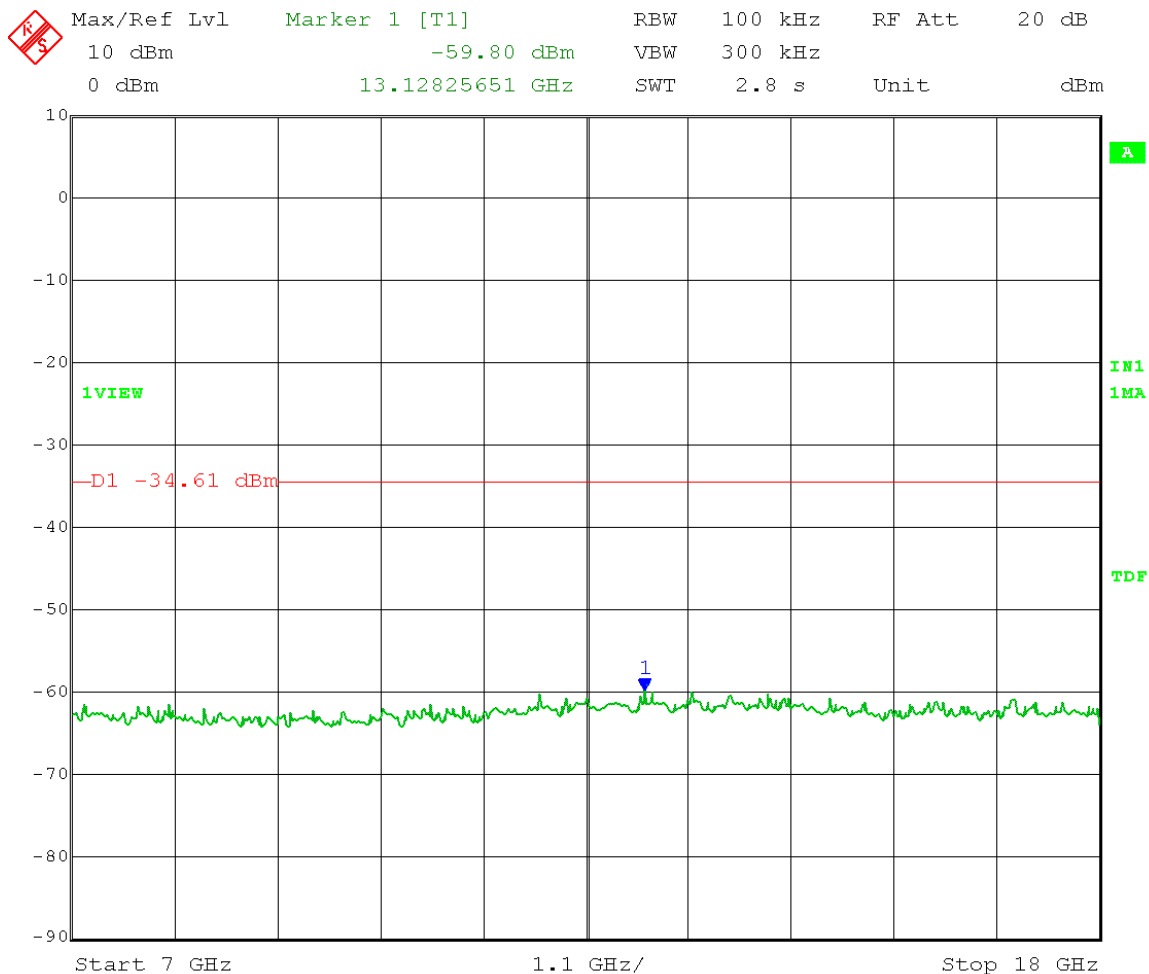
Date: 25.MAR.2014 12:59:19

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 10.5 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -4.61 dBm - 30 dB = -34.61 dBm
Frequency Range: 1 - 7 GHz



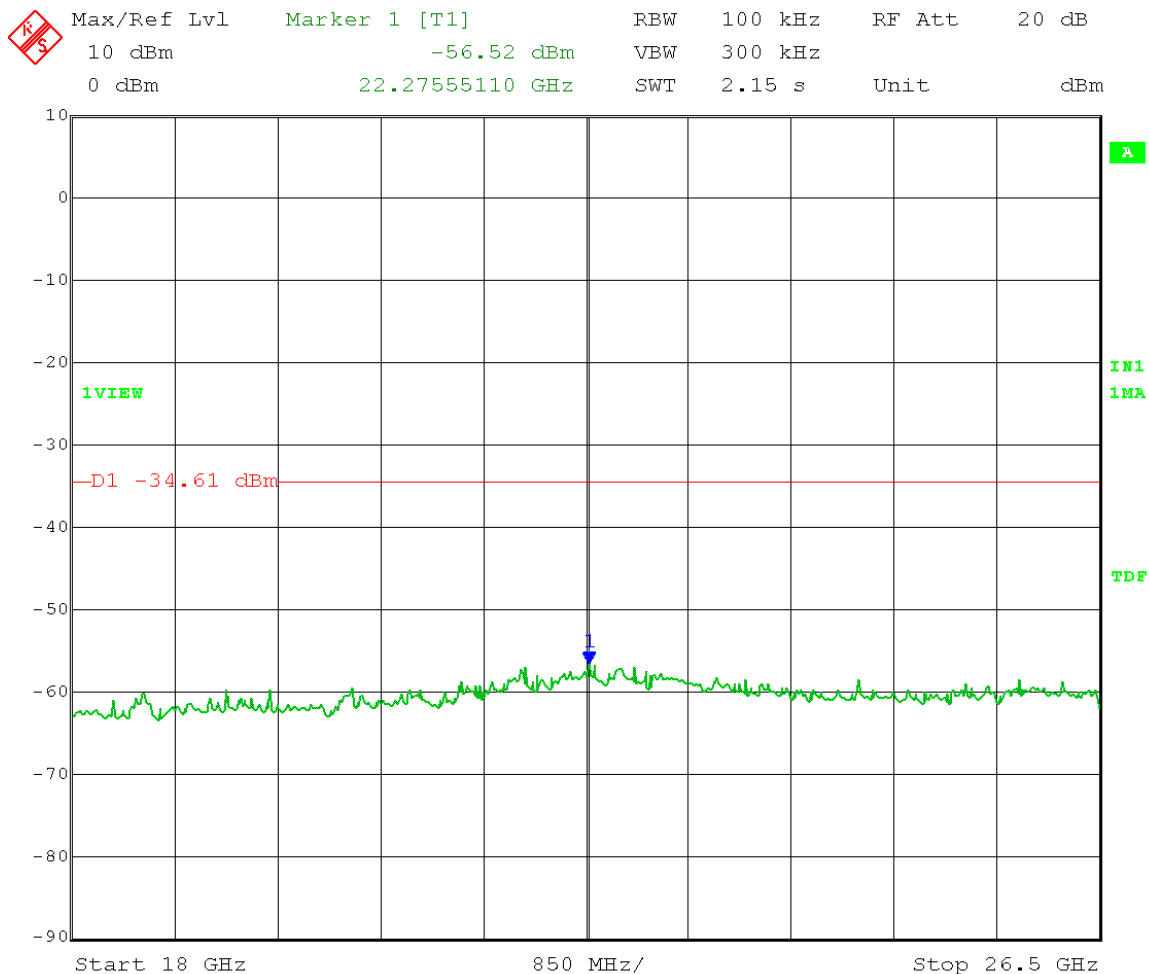
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 10.5 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -4.61 dBm - 30 dB = -34.61 dBm
Frequency Range: 7 - 18 GHz



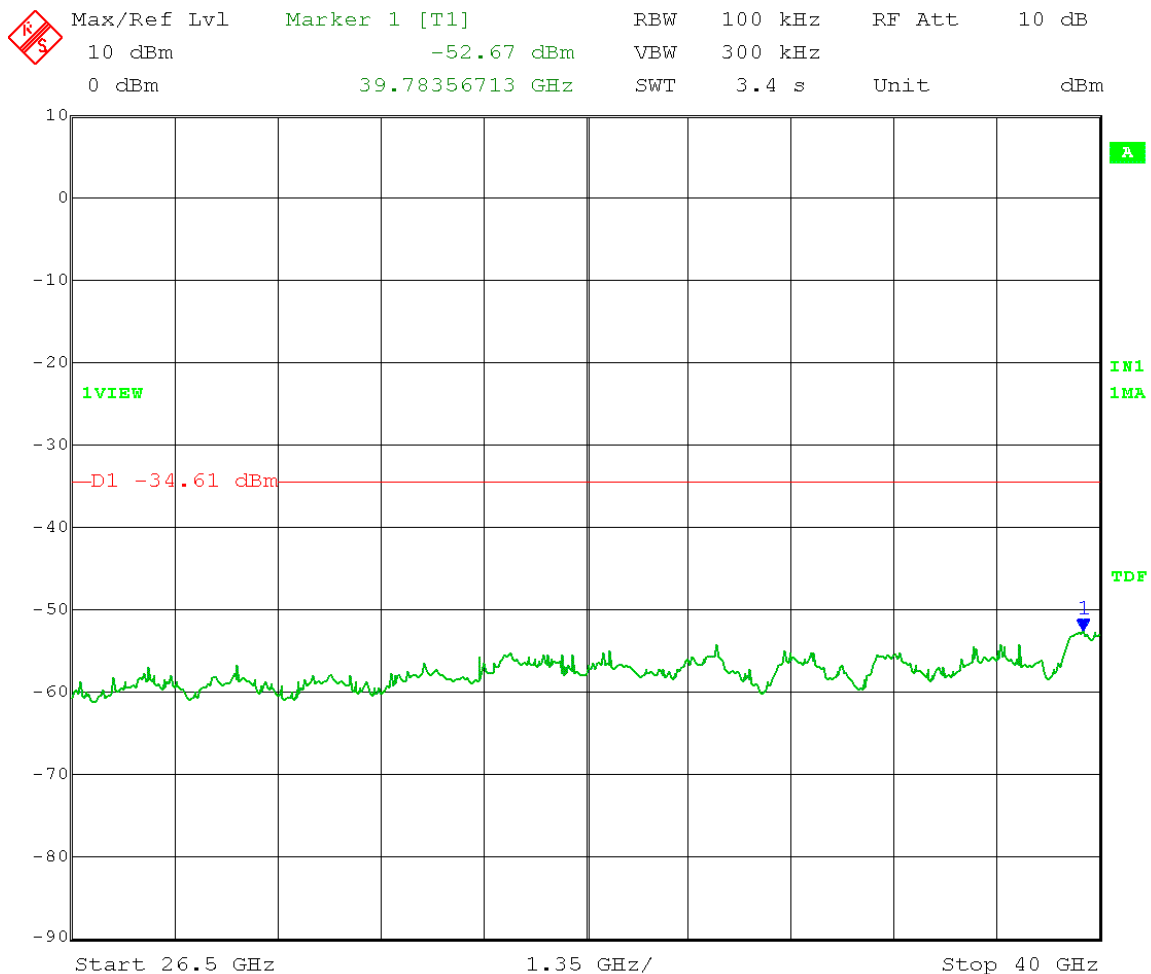
Date: 25.MAR.2014 12:55:09

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 10.5 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -4.61 dBm - 30 dB = -34.61 dBm
Frequency Range: 18 - 26.5 GHz



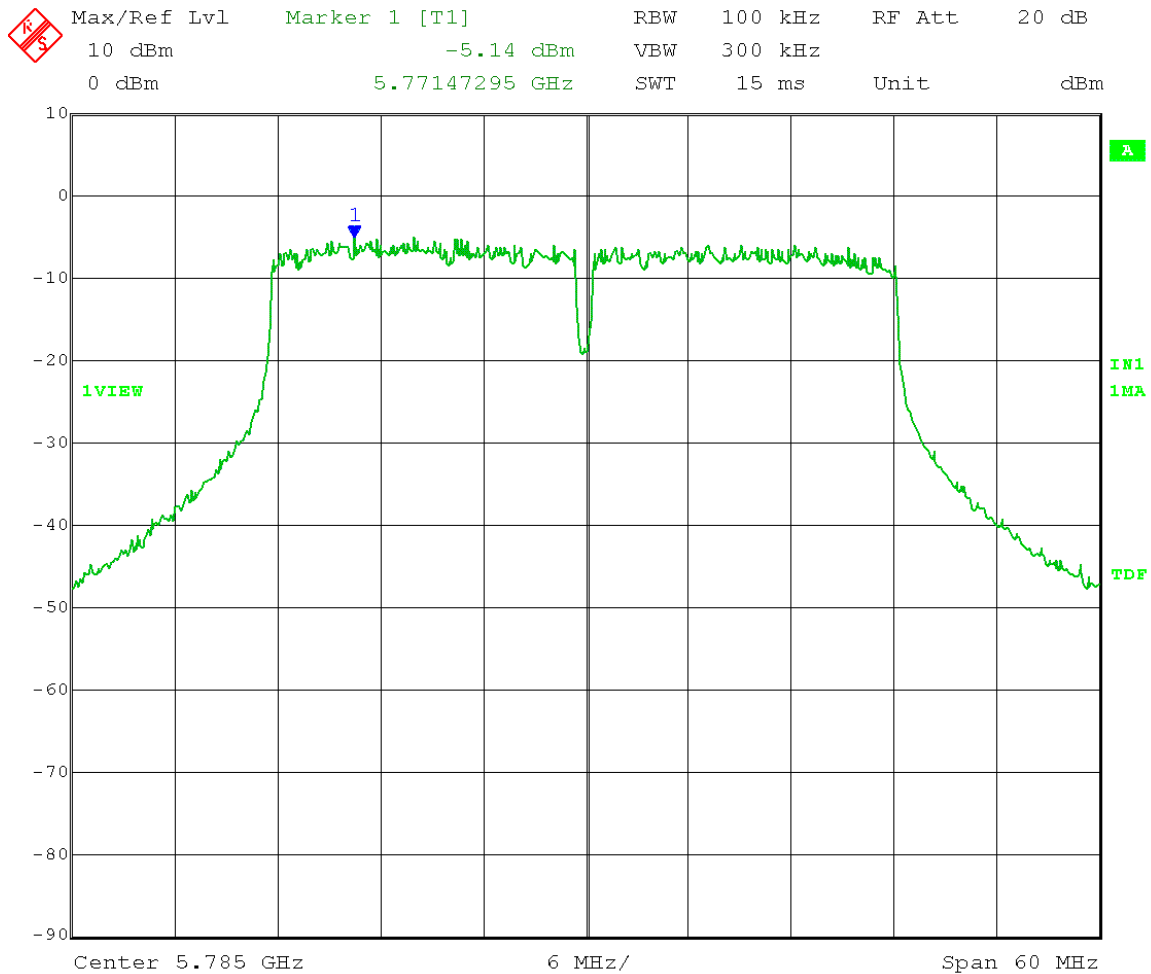
Date: 25.MAR.2014 12:56:29

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 10.5 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -4.61 dBm - 30 dB = -34.61 dBm
Frequency Range: 26.5 - 40 GHz



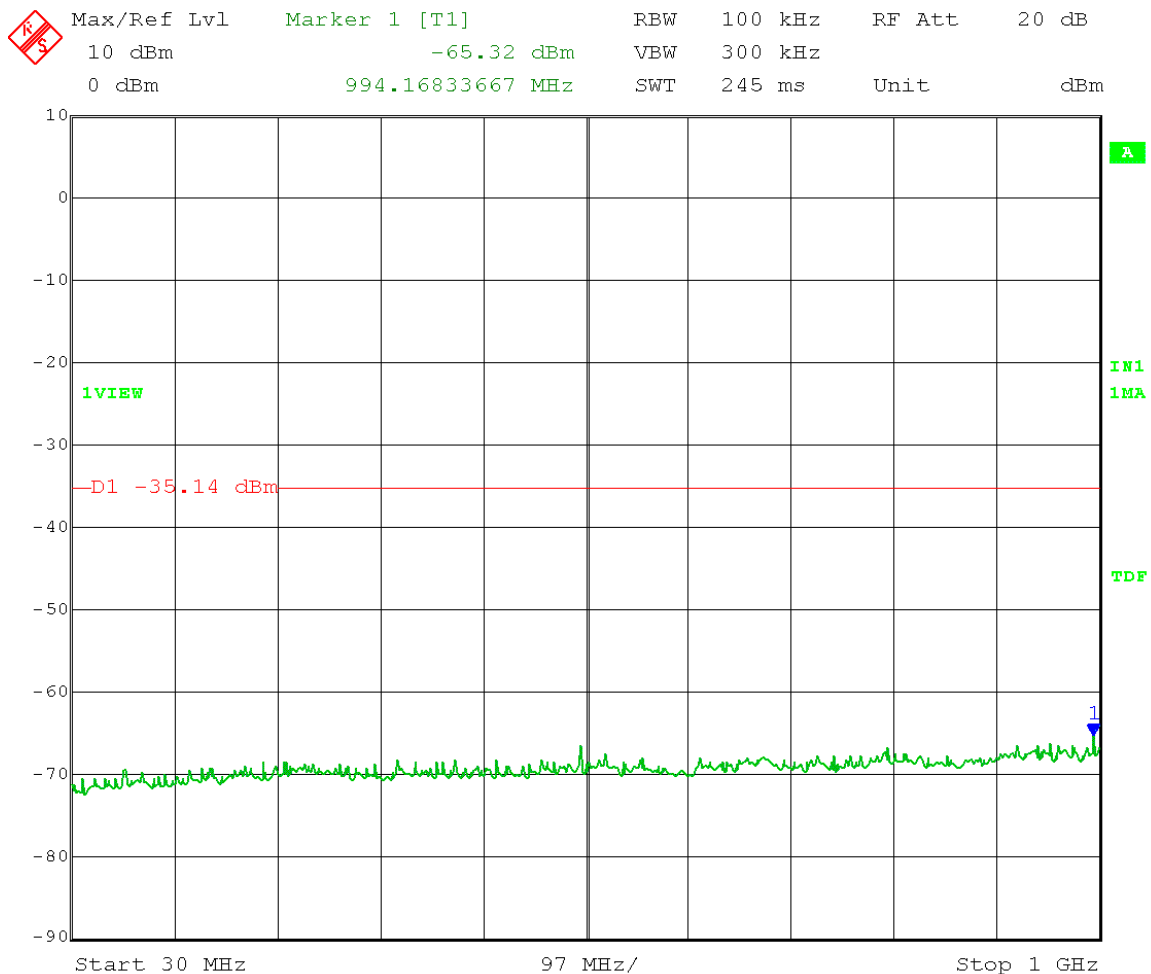
Date: 25.MAR.2014 12:57:46

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -5.14 dBm - 30 dB = -35.14 dBm



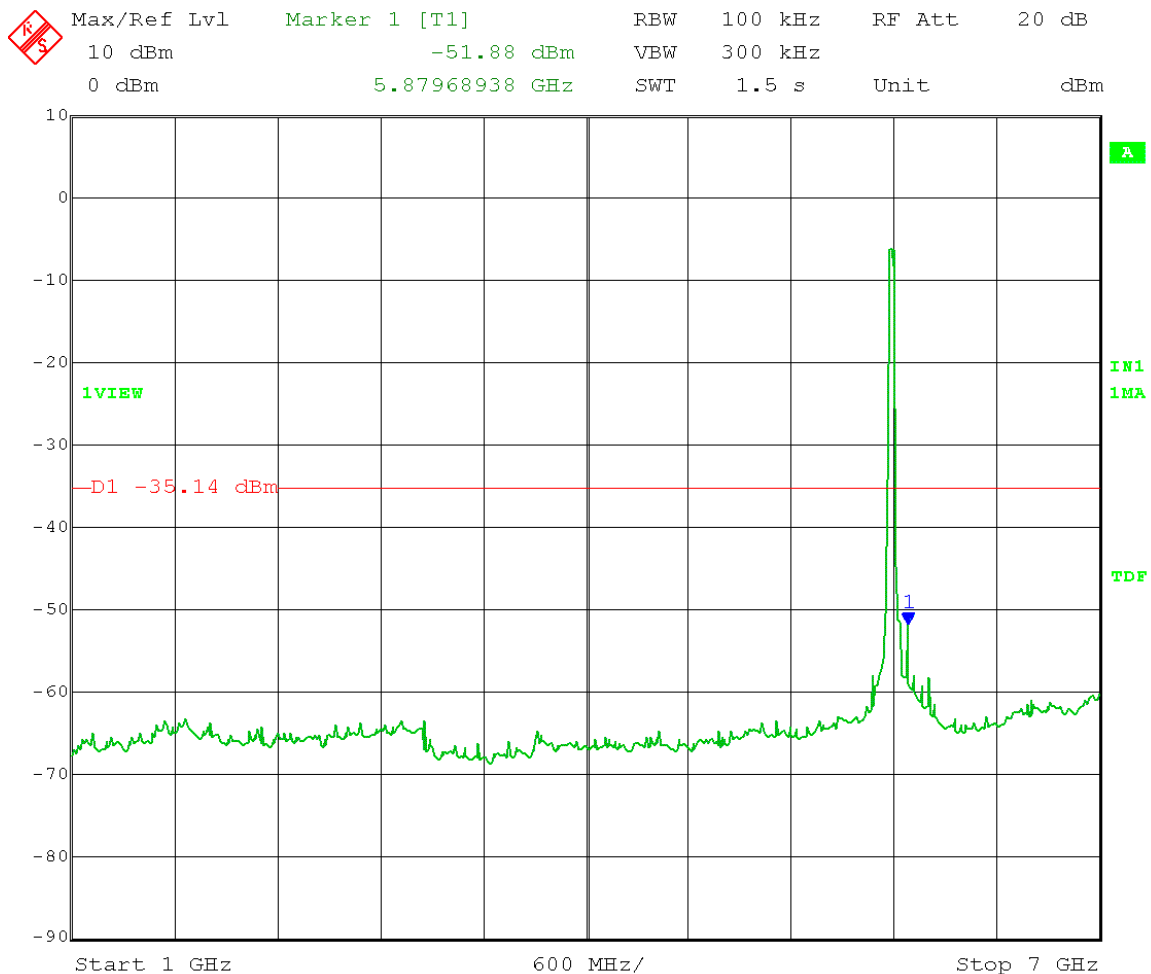
Date: 25.MAR.2014 11:36:10

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.14 dBm - 30 dB = -35.14 dBm
 Frequency Range: 30 - 1000 MHz



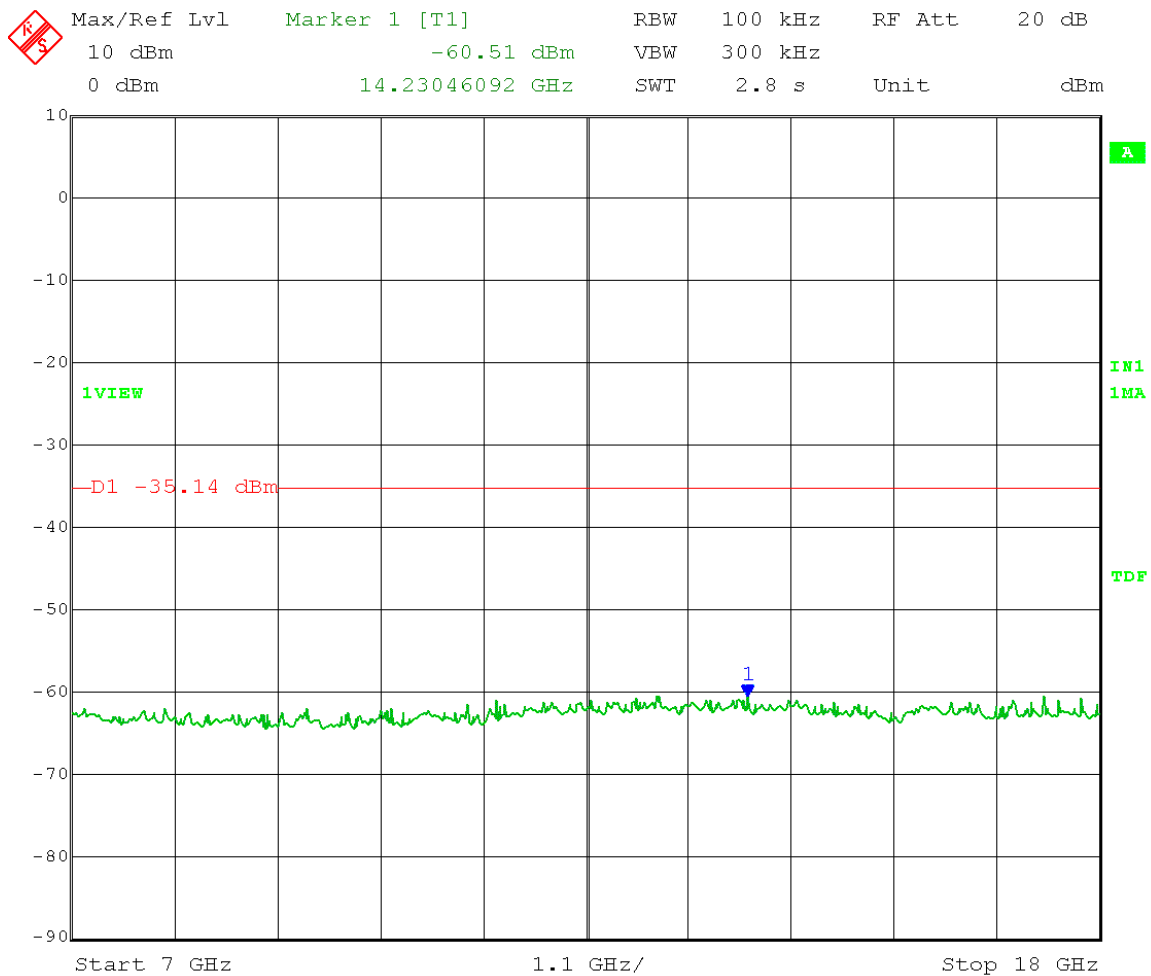
Date: 25.MAR.2014 12:47:02

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.14 dBm – 30 dB = -35.14 dBm
 Frequency Range: 1 – 7 GHz



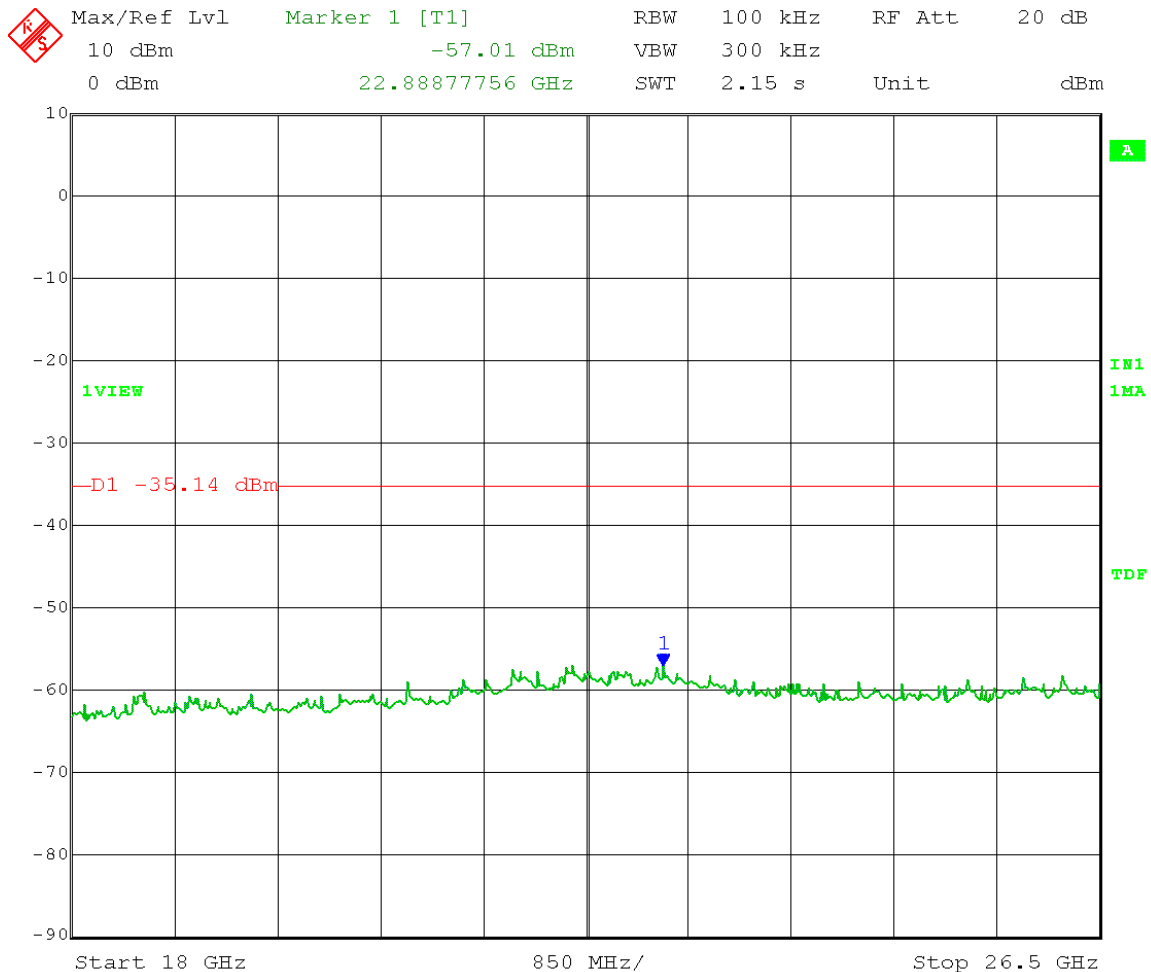
Date: 25.MAR.2014 11:38:22

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.14 dBm - 30 dB = -35.14 dBm
 Frequency Range: 7 - 18 GHz



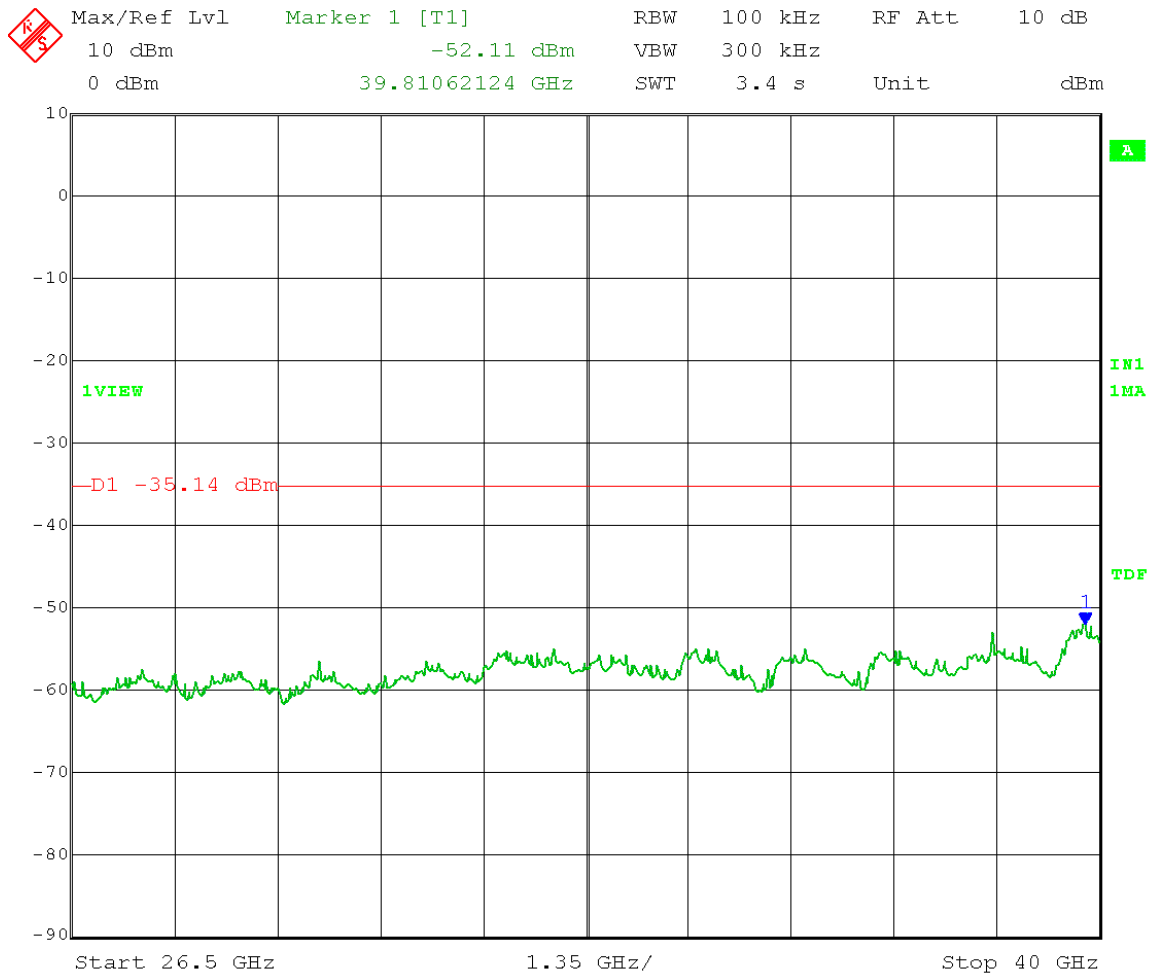
Date: 25.MAR.2014 12:43:00

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.14 dBm - 30 dB = -35.14 dBm
 Frequency Range: 18 - 26.5 GHz



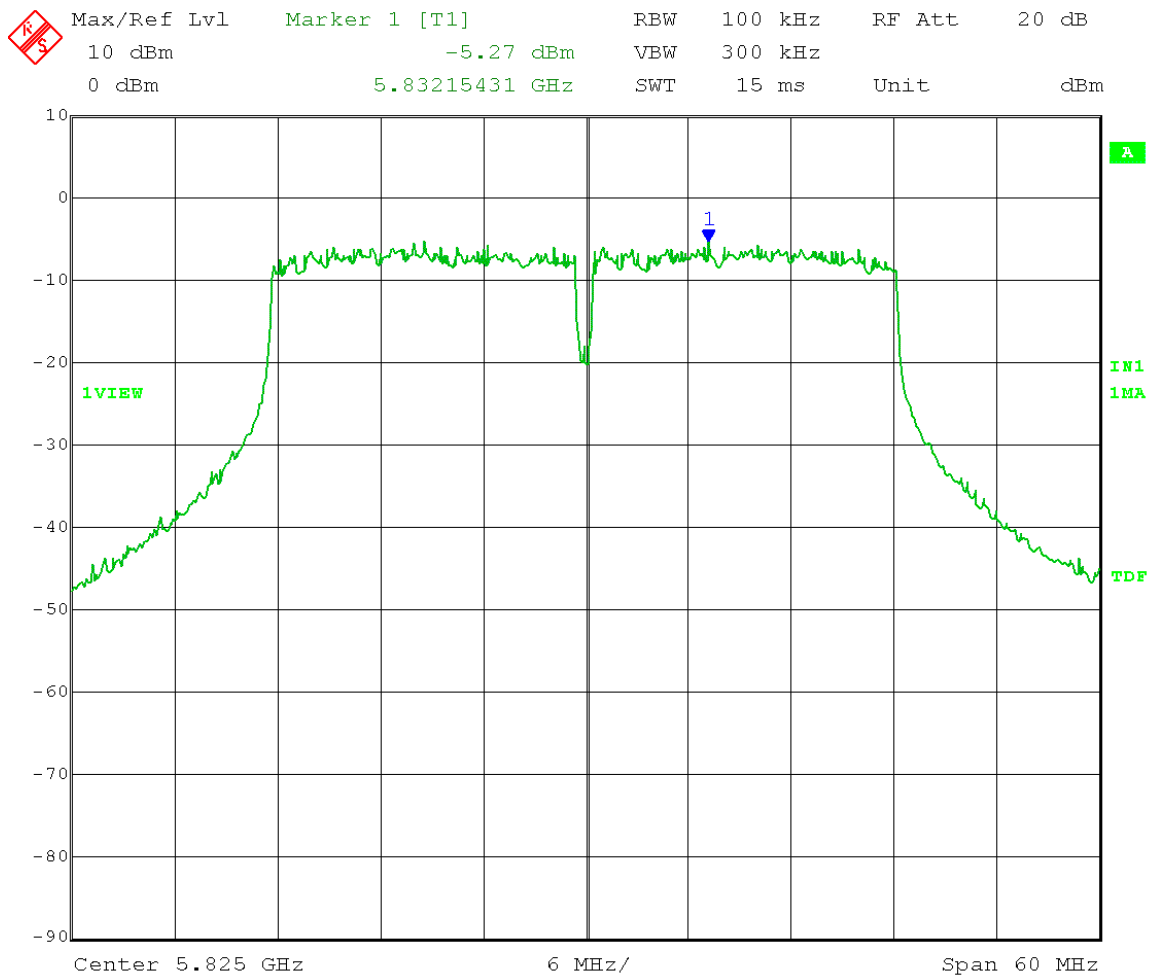
Date: 25.MAR.2014 12:44:07

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 10.5 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.14 dBm - 30 dB = -35.14 dBm
 Frequency Range: 26.5 - 40 GHz



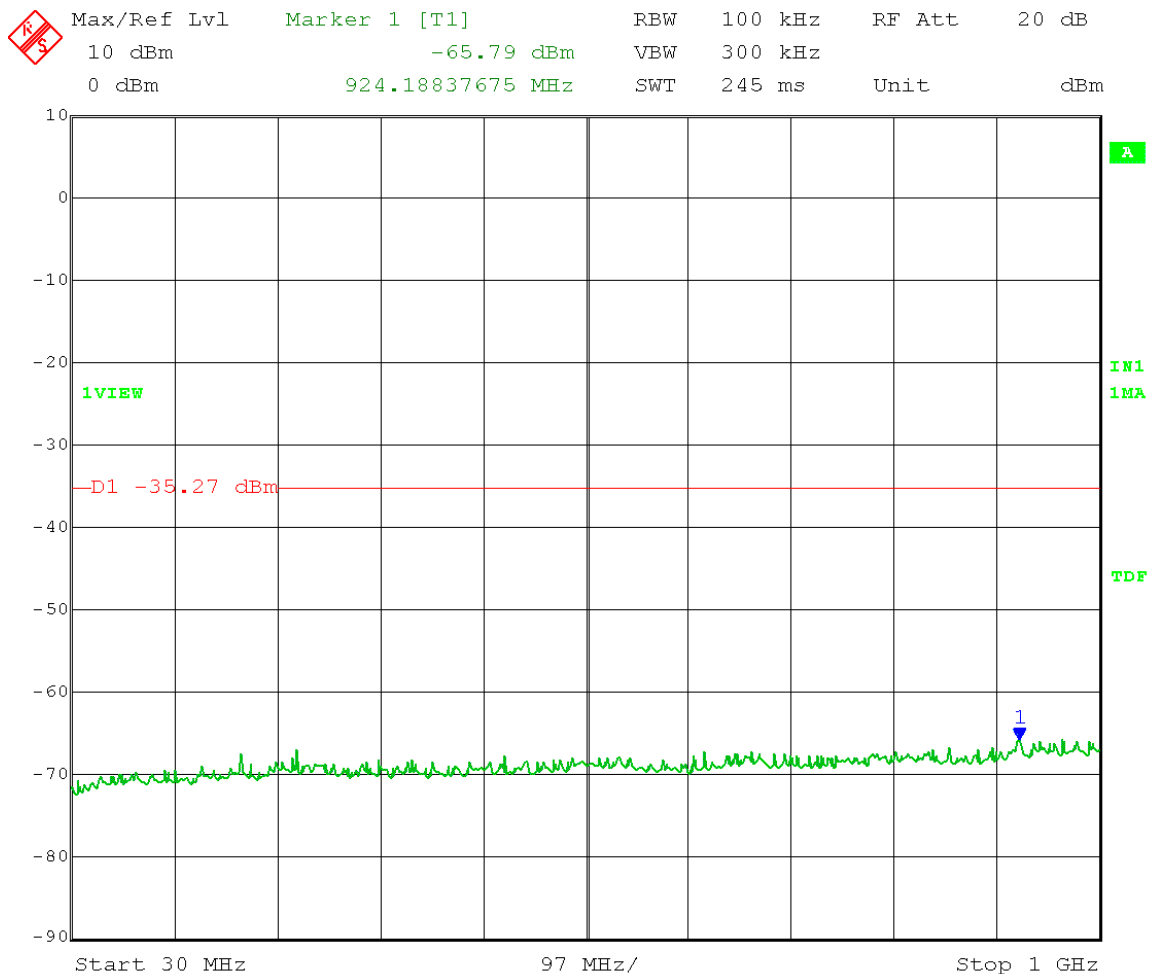
Date: 25.MAR.2014 12:45:42

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -5.27 dBm - 30 dB = -35.27 dBm



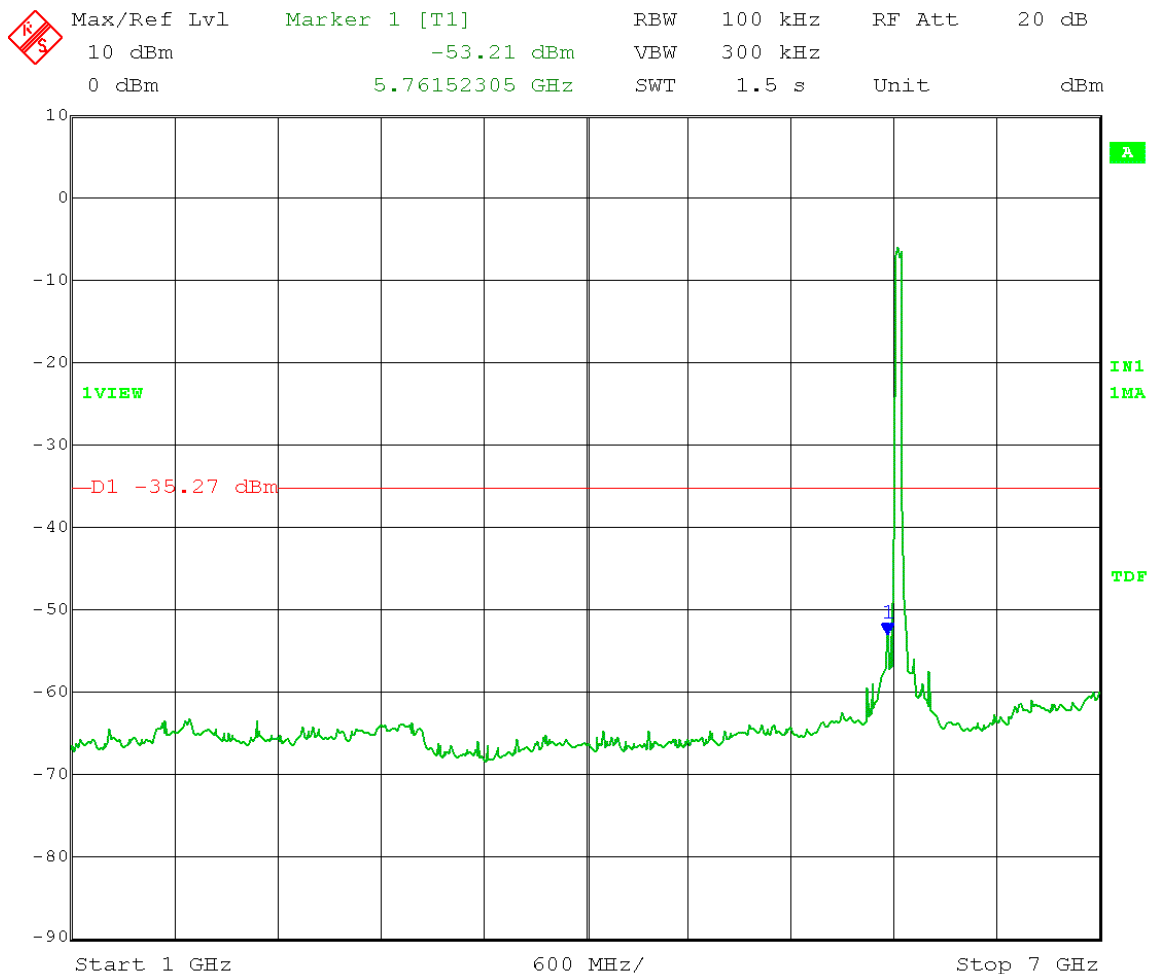
Date: 25.MAR.2014 13:02:42

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.27 dBm - 30 dB = -35.27 dBm
 Frequency Range: 30 - 1000 MHz



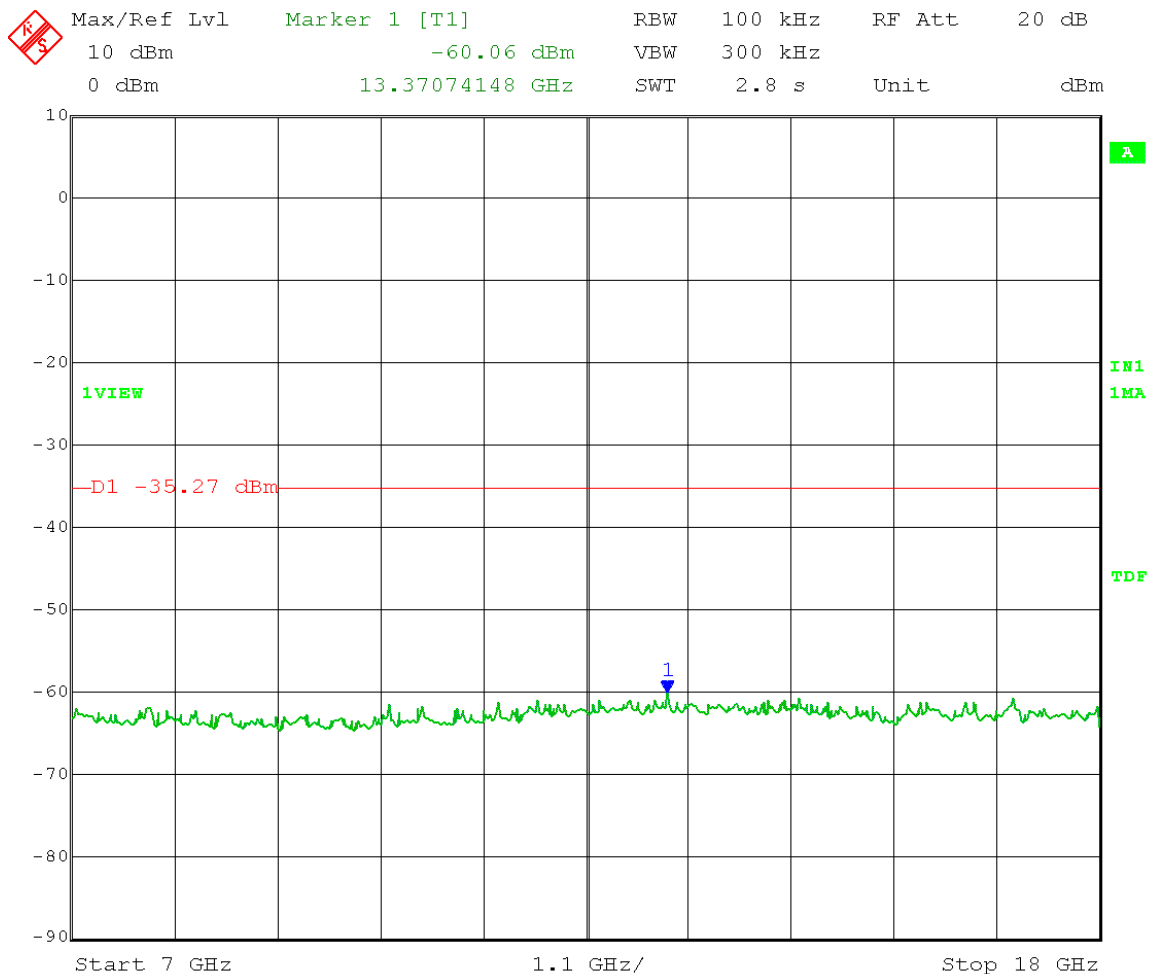
Date: 25.MAR.2014 13:11:24

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.27 dBm - 30 dB = -35.27 dBm
 Frequency Range: 1 - 7 GHz



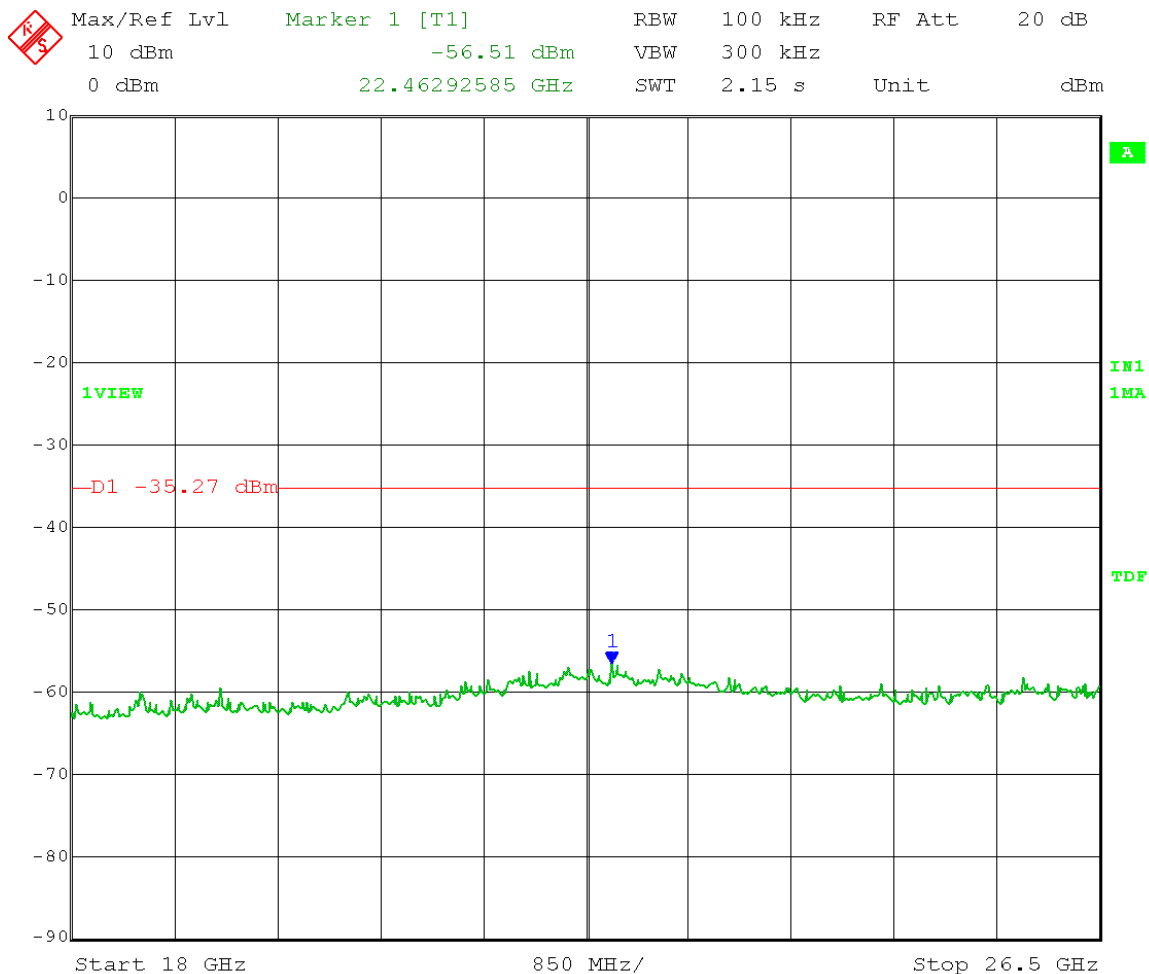
Date: 25.MAR.2014 13:05:20

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 5.825 GHz
Output power setting 10.0 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -5.27 dBm - 30 dB = -35.27 dBm
Frequency Range: 7 - 18 GHz



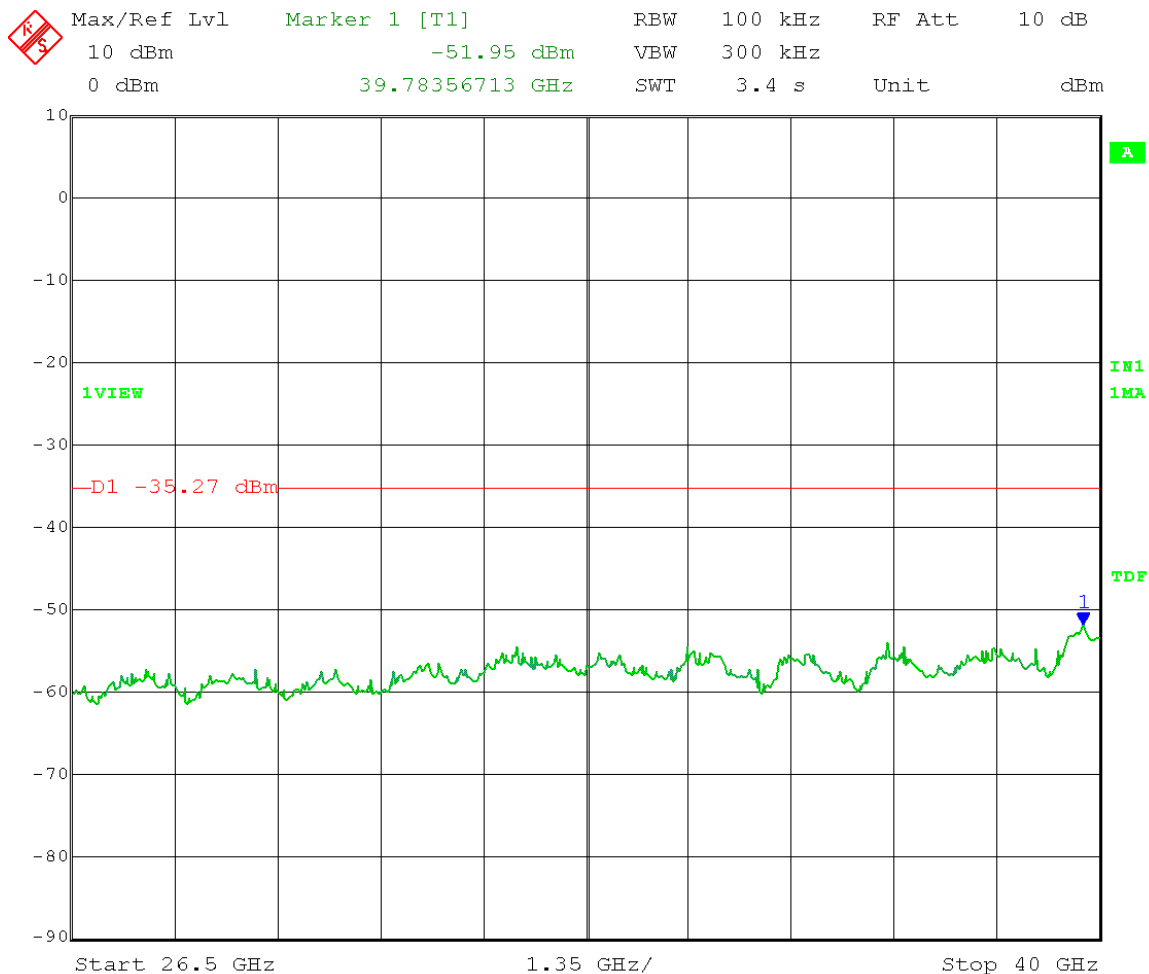
Date: 25.MAR.2014 13:06:35

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.27 dBm - 30 dB = -35.27 dBm
 Frequency Range: 18 - 26.5 GHz



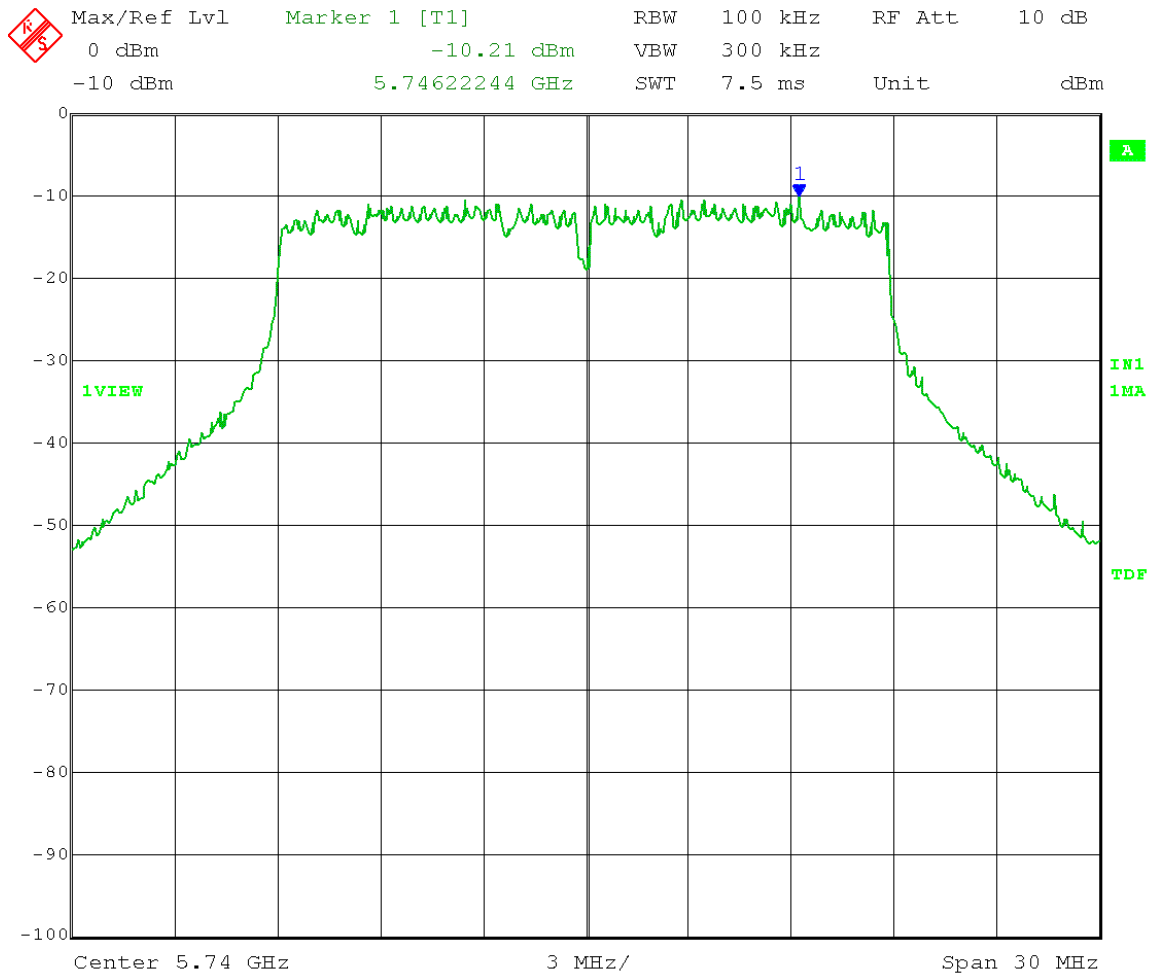
Date: 25.MAR.2014 13:07:59

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 10.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -5.27 dBm - 30 dB = -35.27 dBm
 Frequency Range: 26.5 - 40 GHz



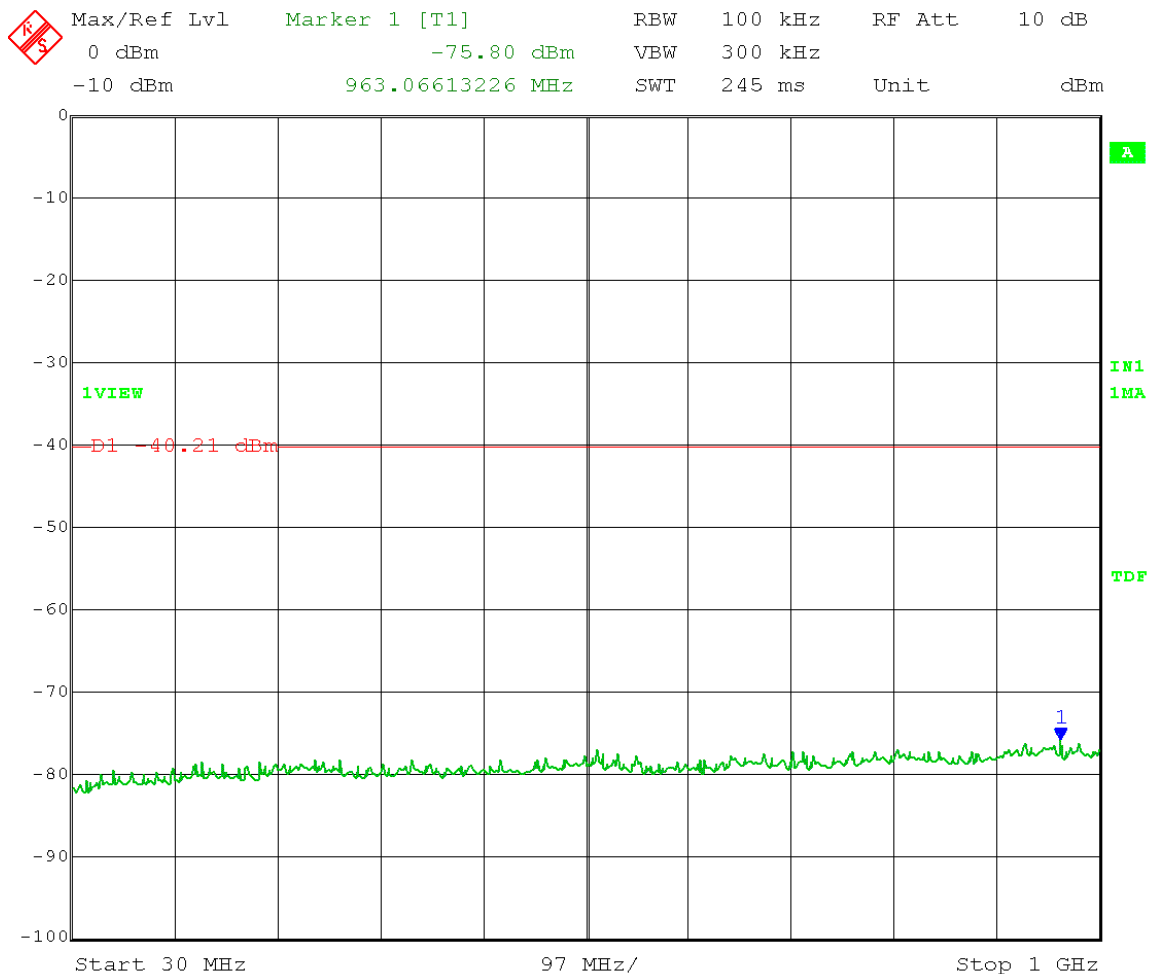
Date: 25.MAR.2014 13:09:29

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = -10.21 dBm - 30 dB = -40.21 dBm



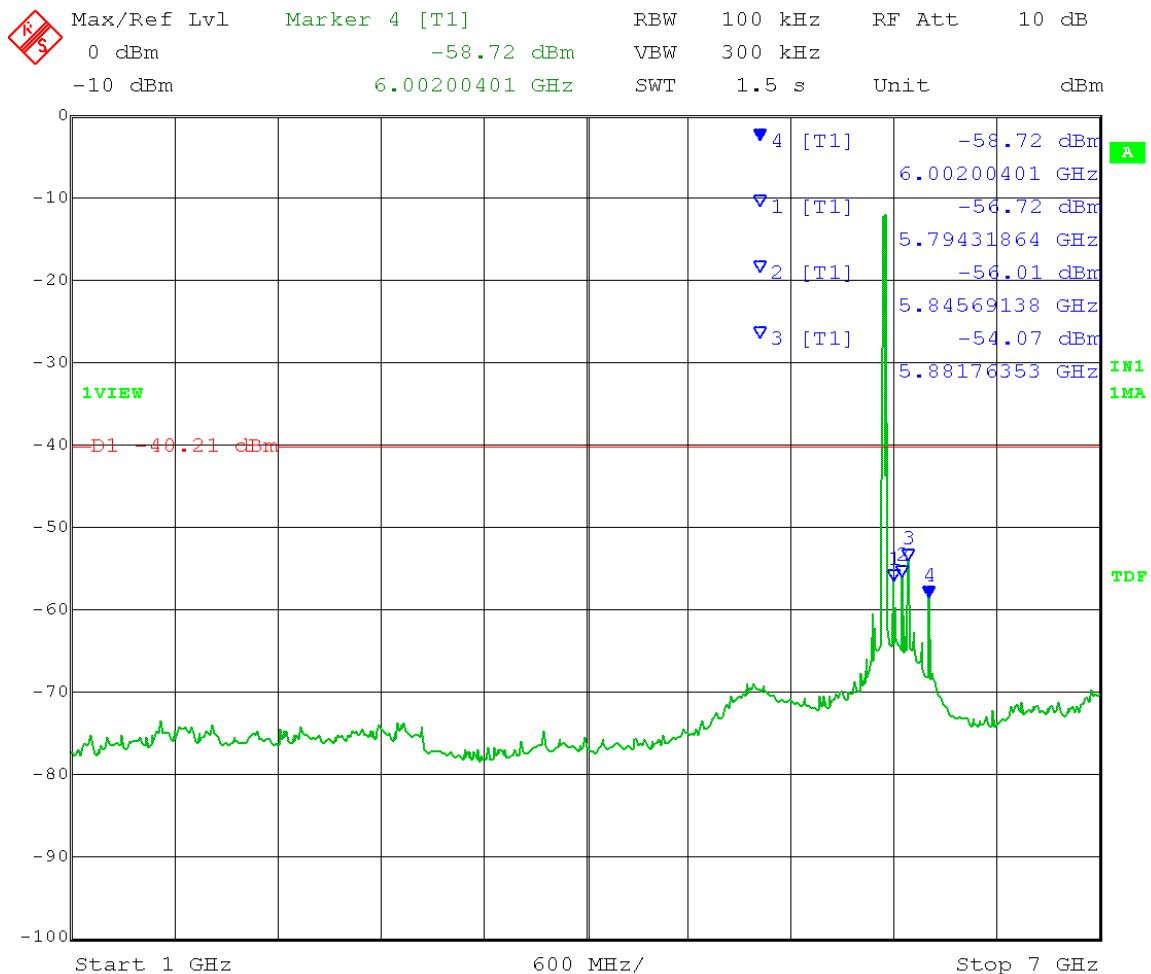
Date: 25.MAR.2014 09:31:15

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.21 dBm - 30 dB = -40.21 dBm
 Frequency Range: 30 - 1000 MHz



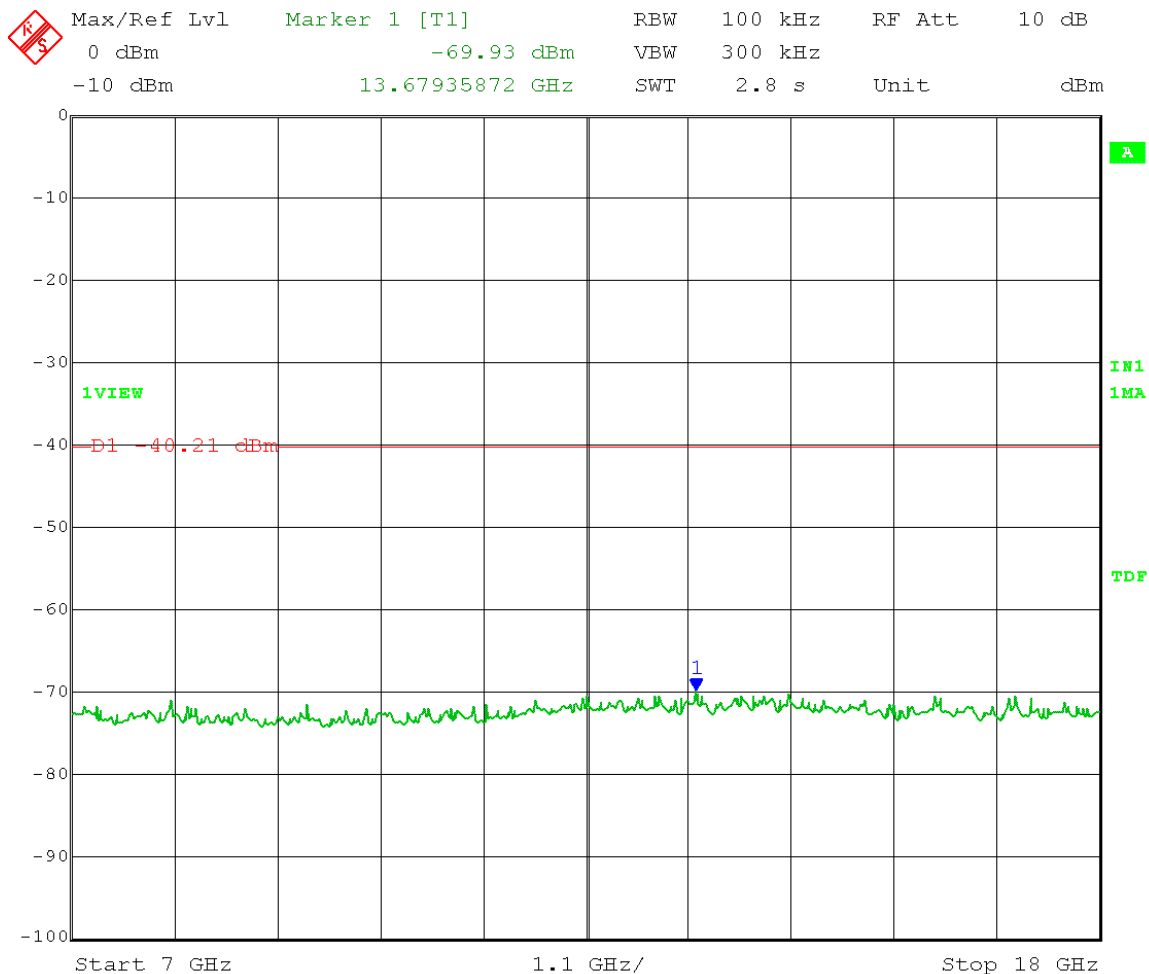
Date: 25.MAR.2014 09:40:07

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.21 dBm - 30 dB = -40.21 dBm
 Frequency Range: 1 - 7 GHz



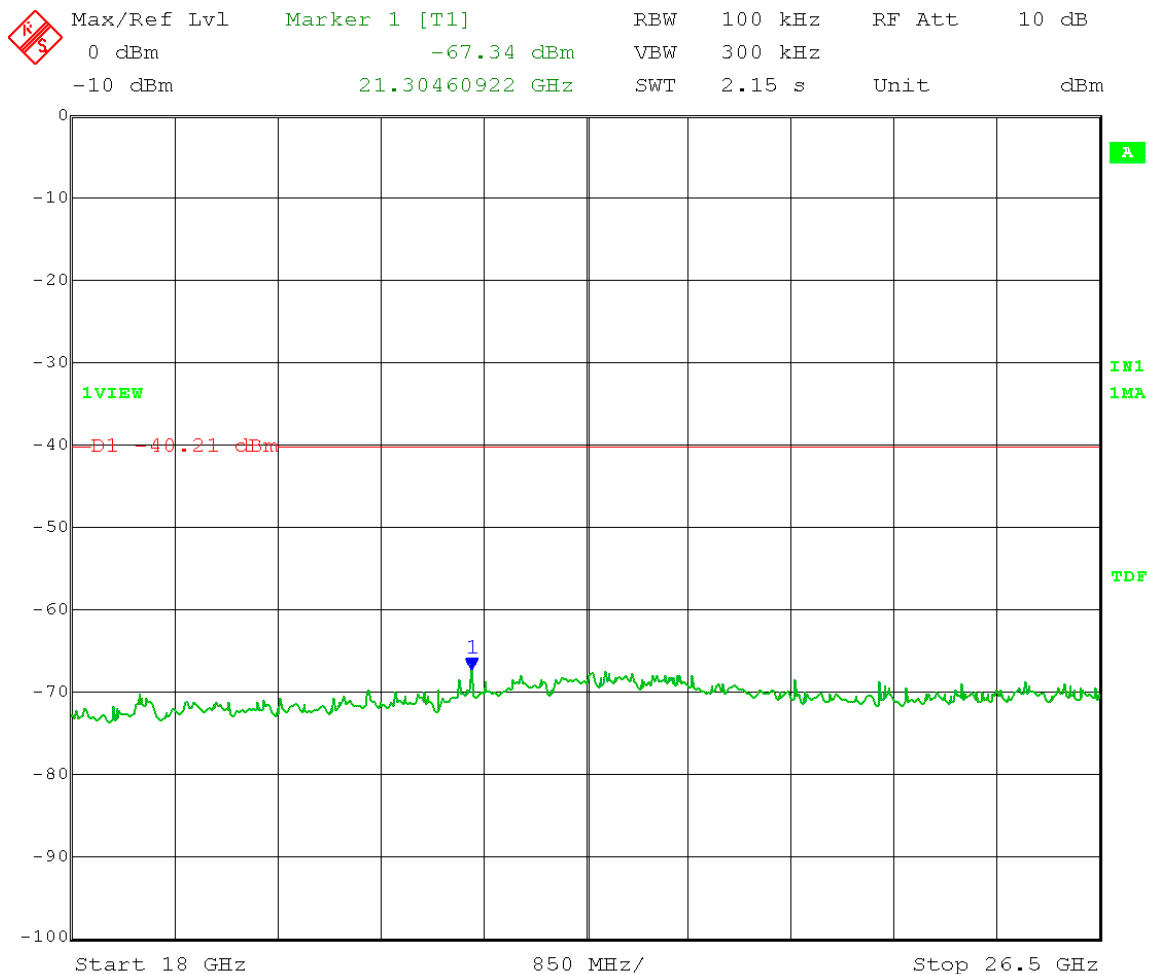
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.740 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.21 dBm - 30 dB = -40.21 dBm
 Frequency Range: 7 - 18 GHz



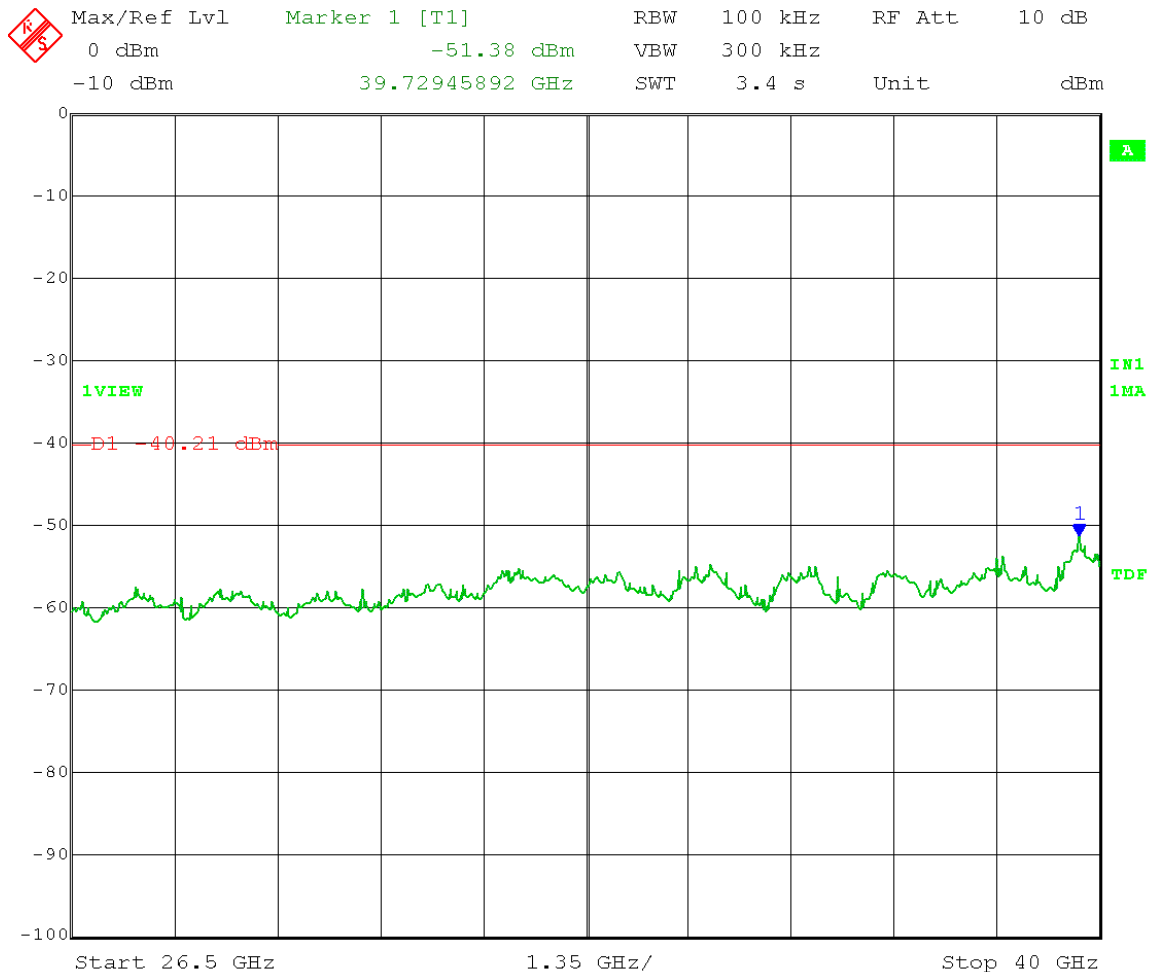
Date: 25.MAR.2014 09:35:20

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -10.21 dBm - 30 dB = -40.21 dBm
Frequency Range: 18 - 26.5 GHz



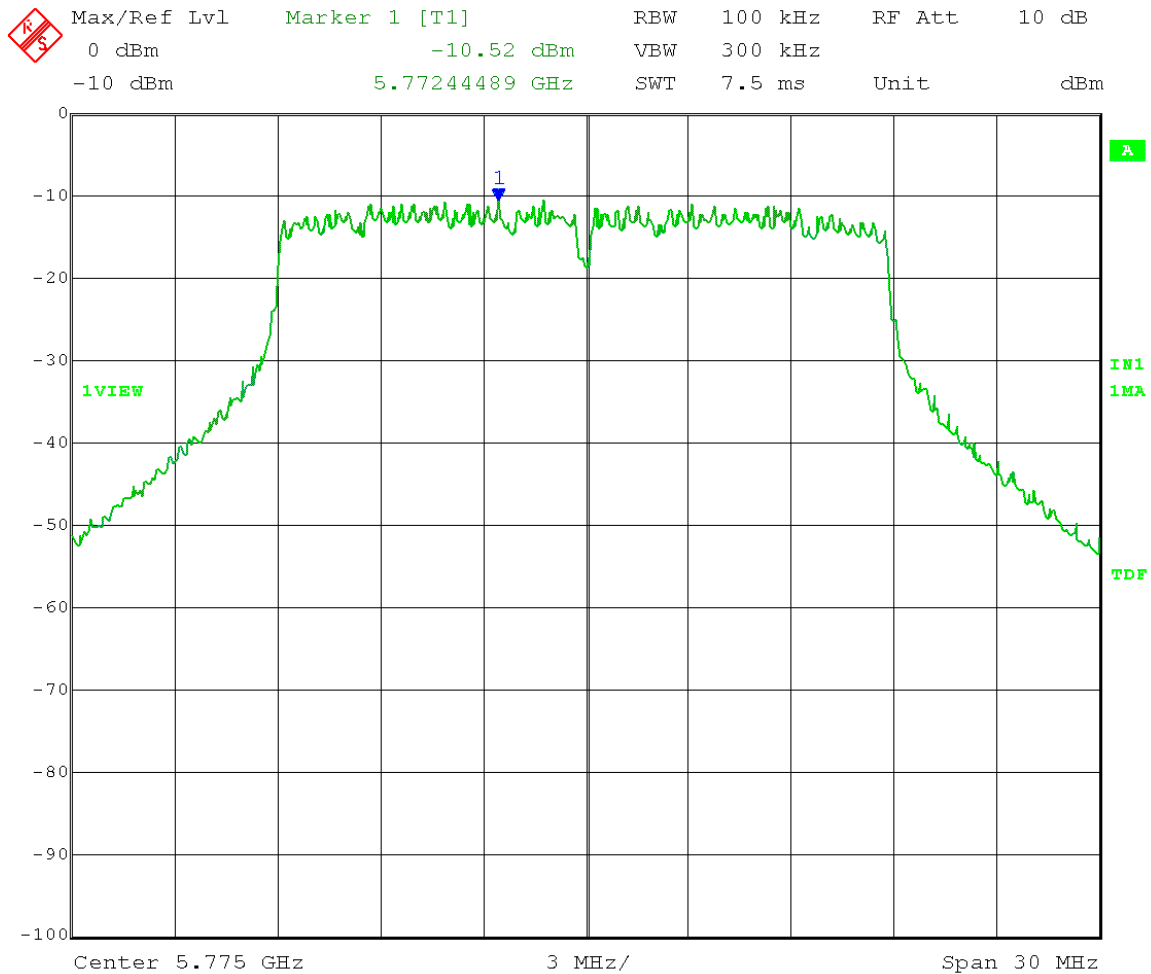
Date: 25.MAR.2014 09:36:33

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.740 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -10.21 dBm - 30 dB = -40.21 dBm
Frequency Range: 26.5 - 40 GHz



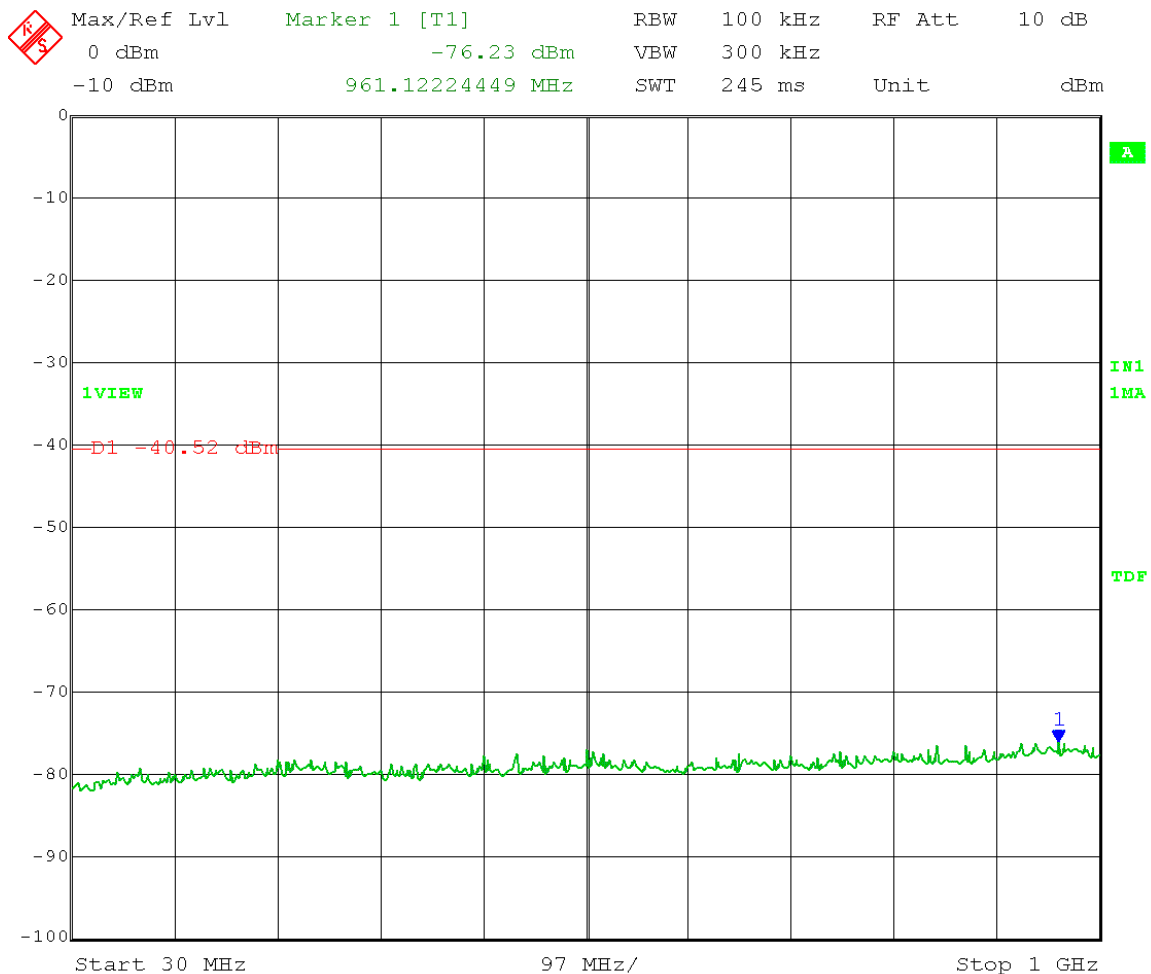
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = -10.52 dBm - 30 dB = -40.52 dBm



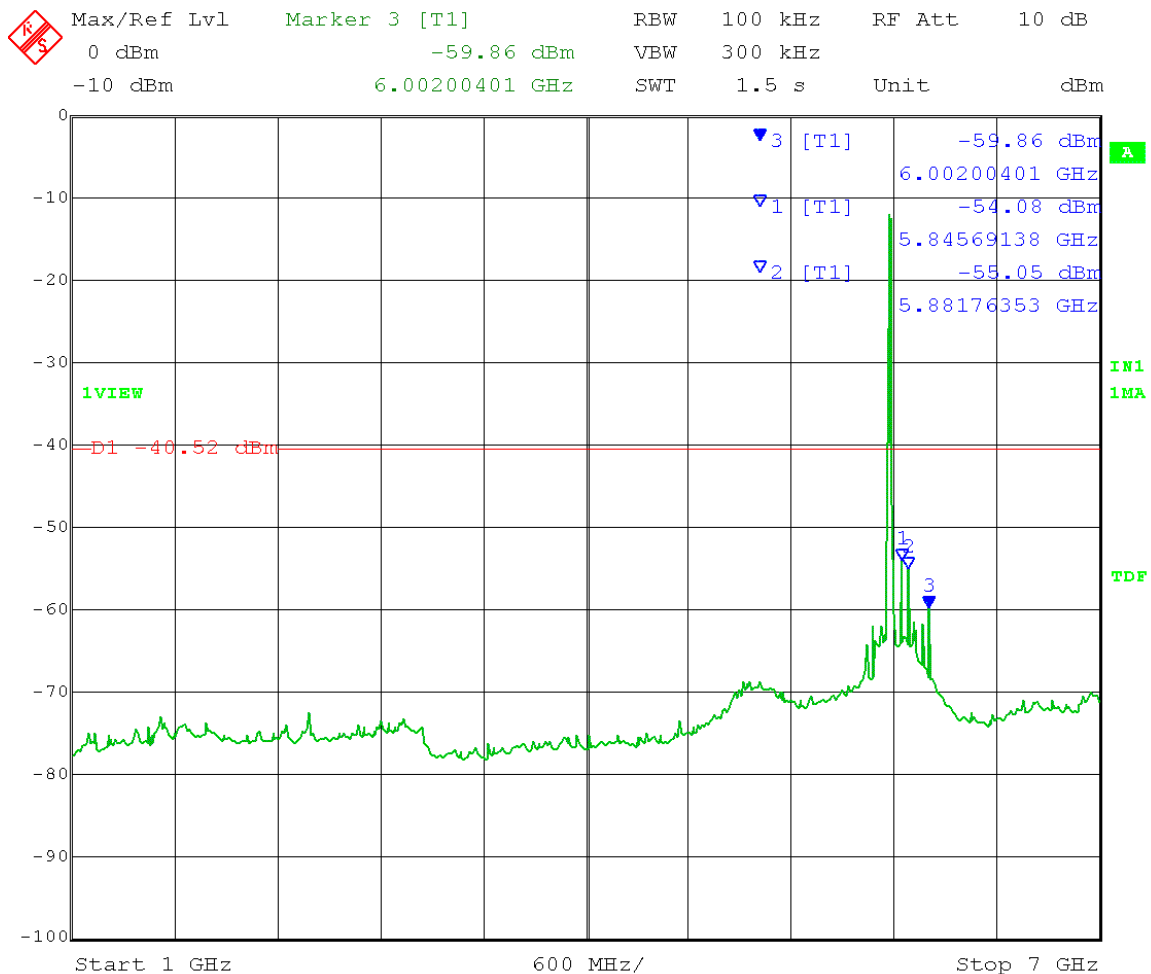
Date: 25.MAR.2014 09:43:07

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.52 dBm - 30 dB = -40.52 dBm
 Frequency Range: 30 - 1000 MHz



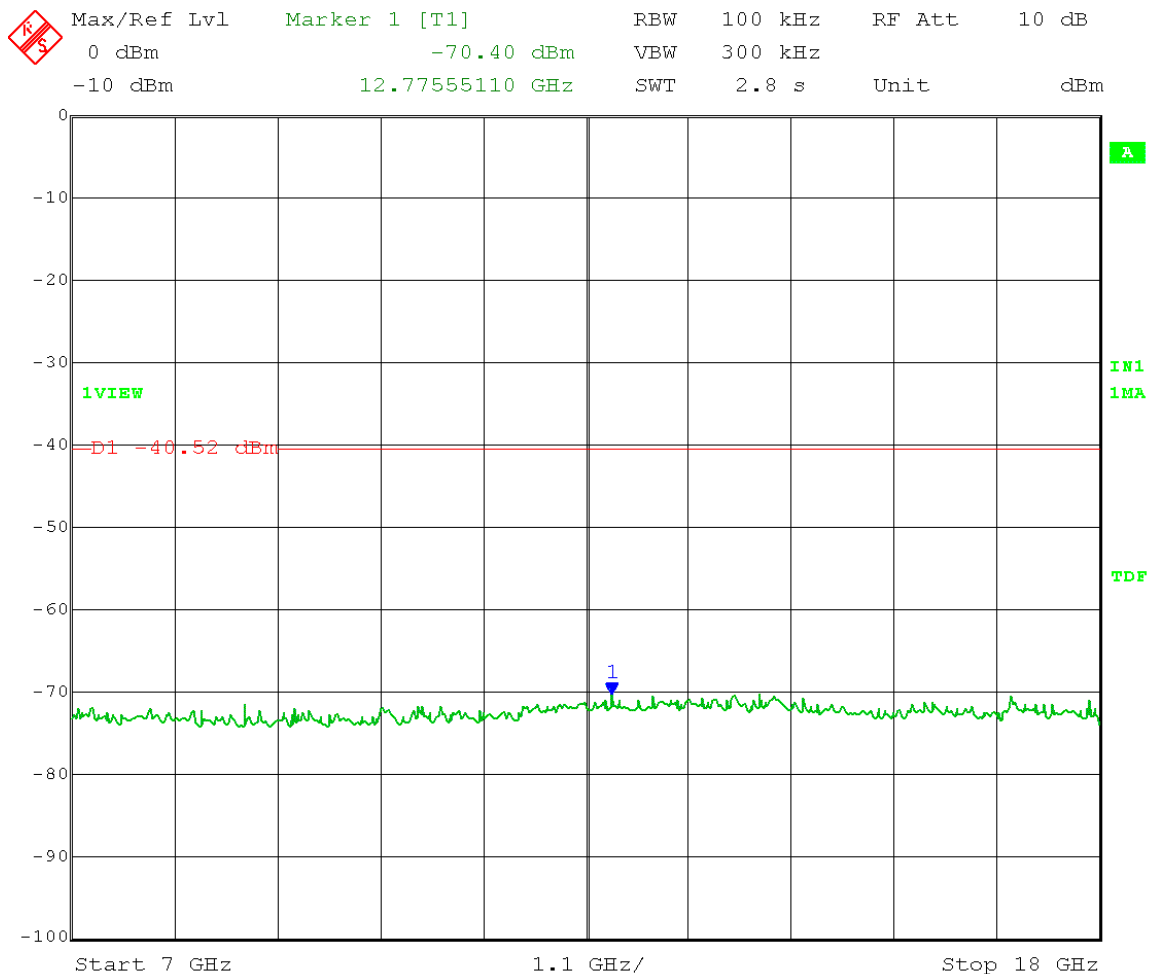
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.52 dBm - 30 dB = -40.52 dBm
 Frequency Range: 1 - 7 GHz



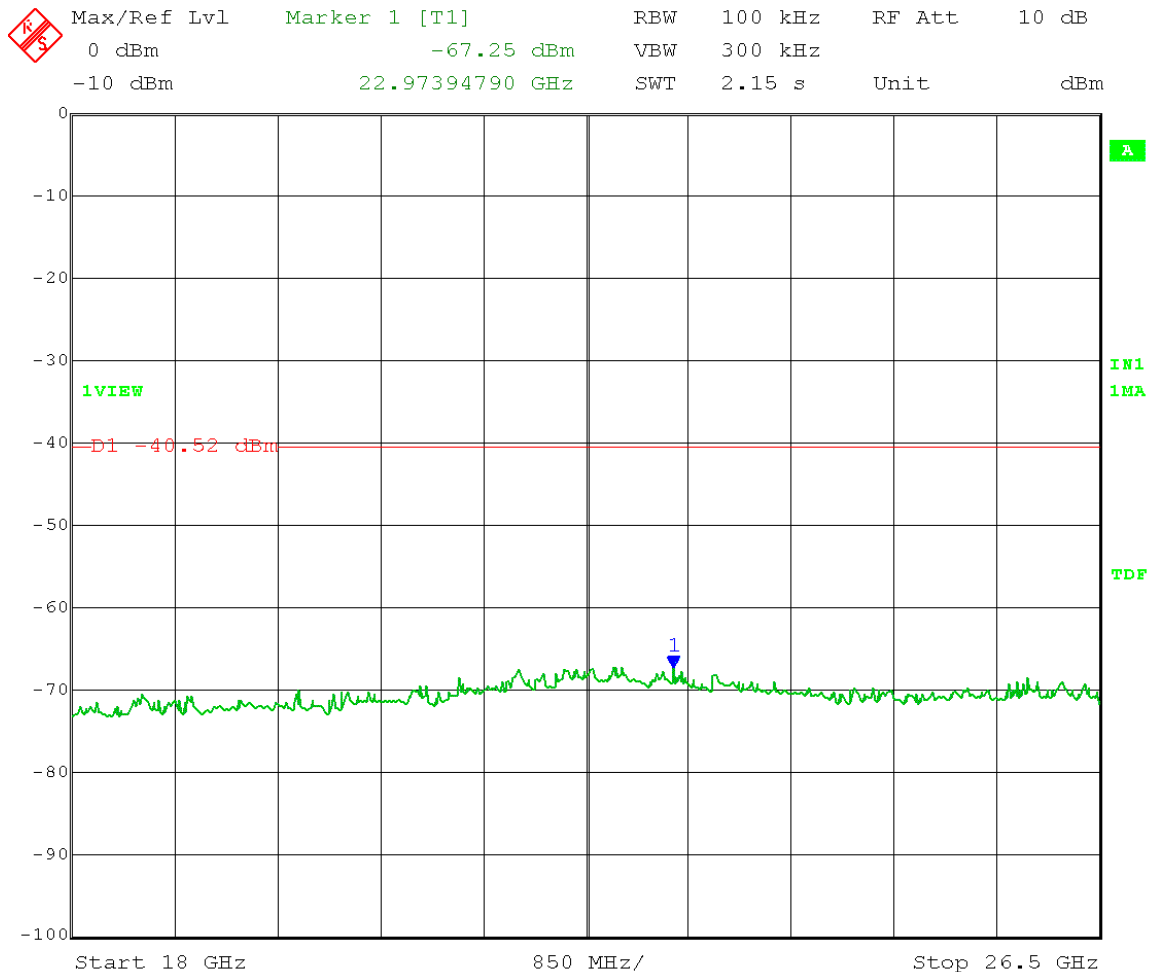
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.775 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -10.52 dBm - 30 dB = -40.52 dBm
 Frequency Range: 7 - 18 GHz



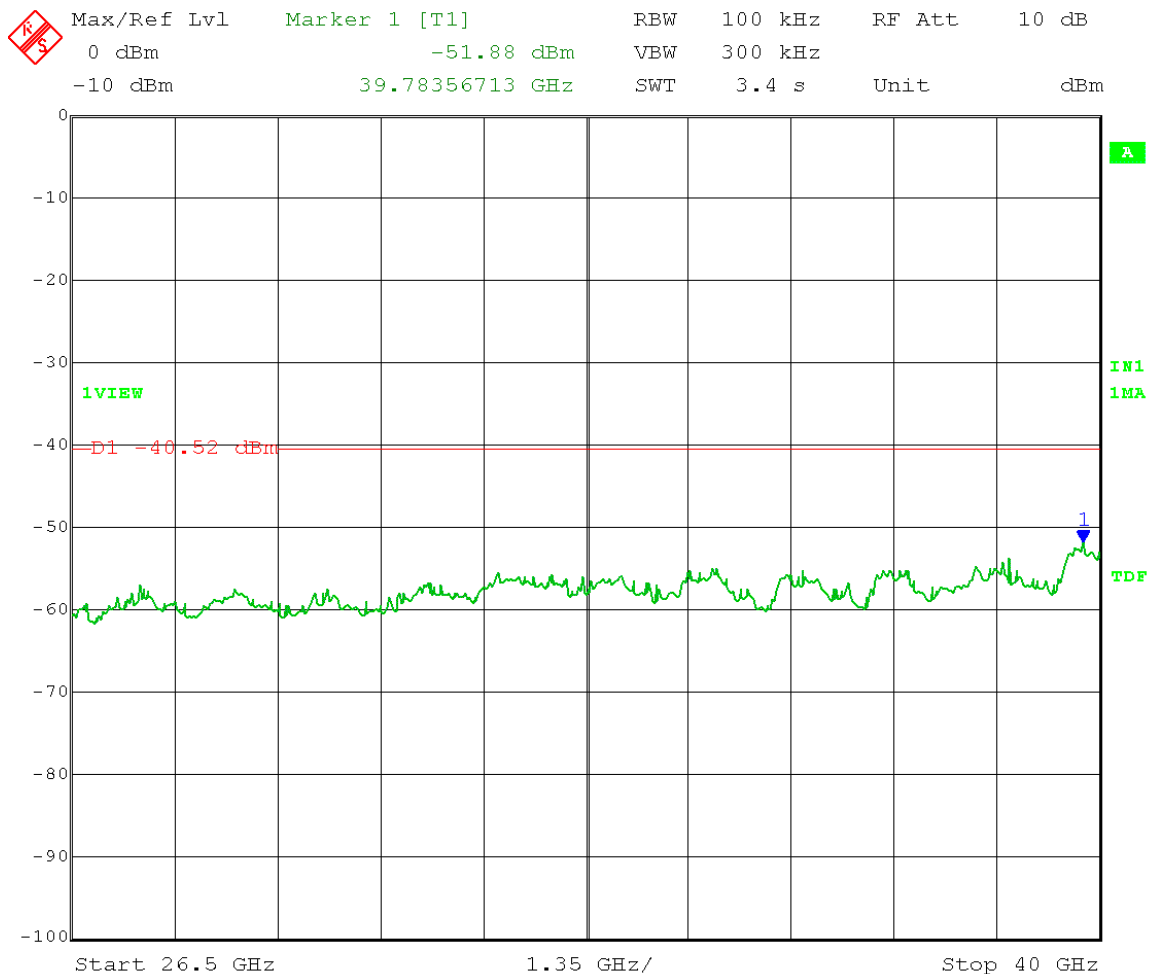
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Mid Channel Transmit = 5.775 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -10.52 dBm - 30 dB = -40.52 dBm
Frequency Range: 18 - 26.5 GHz



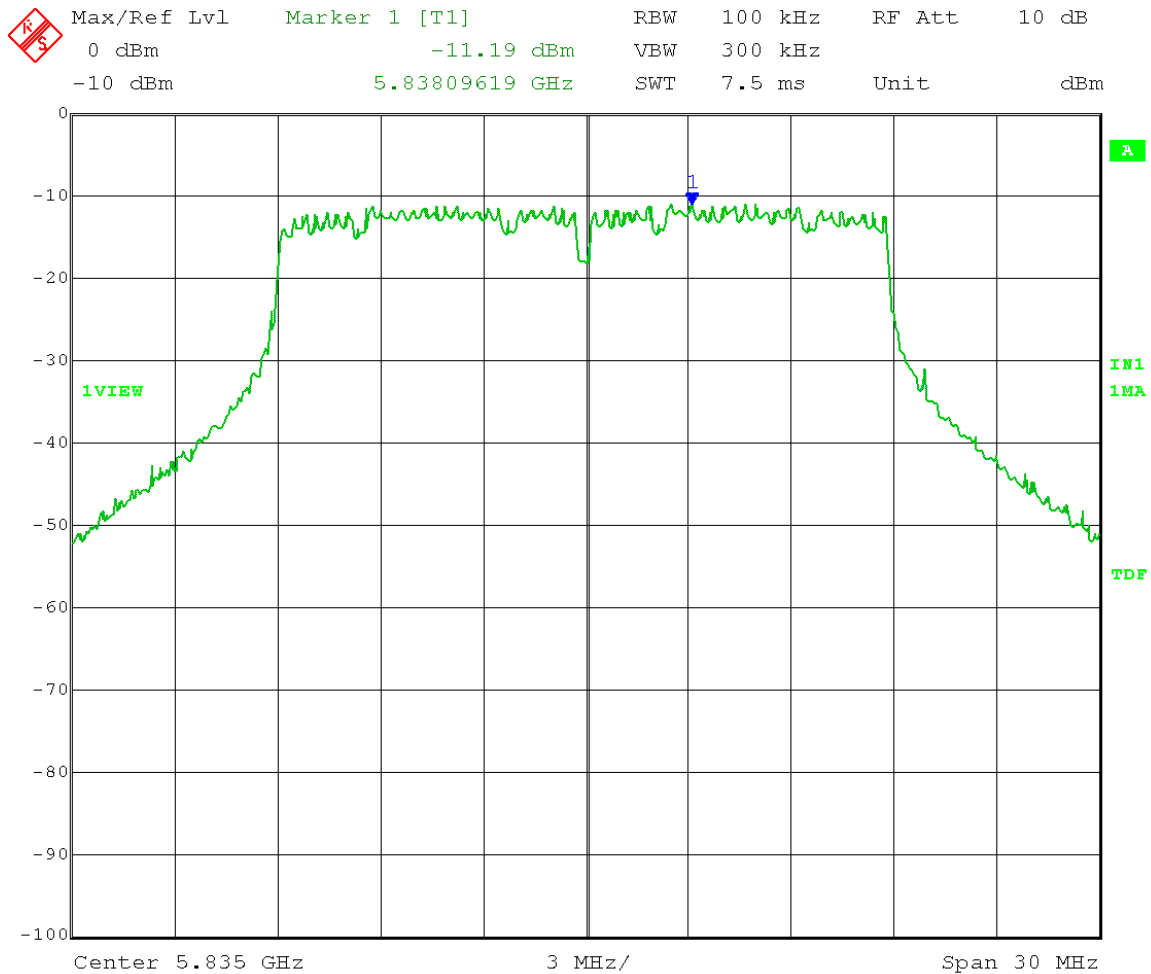
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Mid Channel Transmit = 5.775 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -10.52 dBm - 30 dB = -40.52 dBm
Frequency Range: 26.5 - 40 GHz



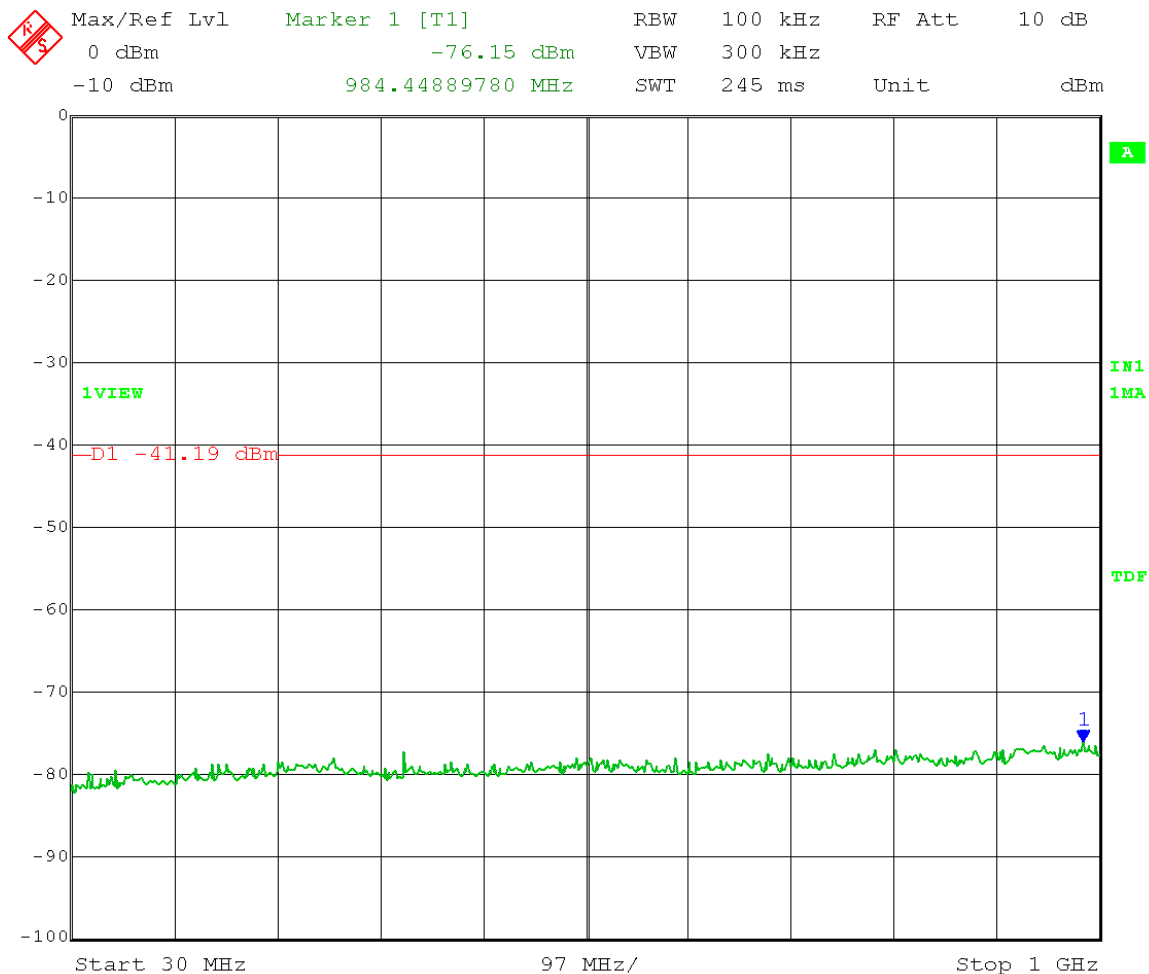
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Reference Level measurement
 Limit = -11.19 dBm - 30 dB = -41.19 dBm



Date: 25.MAR.2014 09:56:09

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -11.19 dBm - 30 dB = -41.19 dBm
 Frequency Range: 30 - 1000 MHz



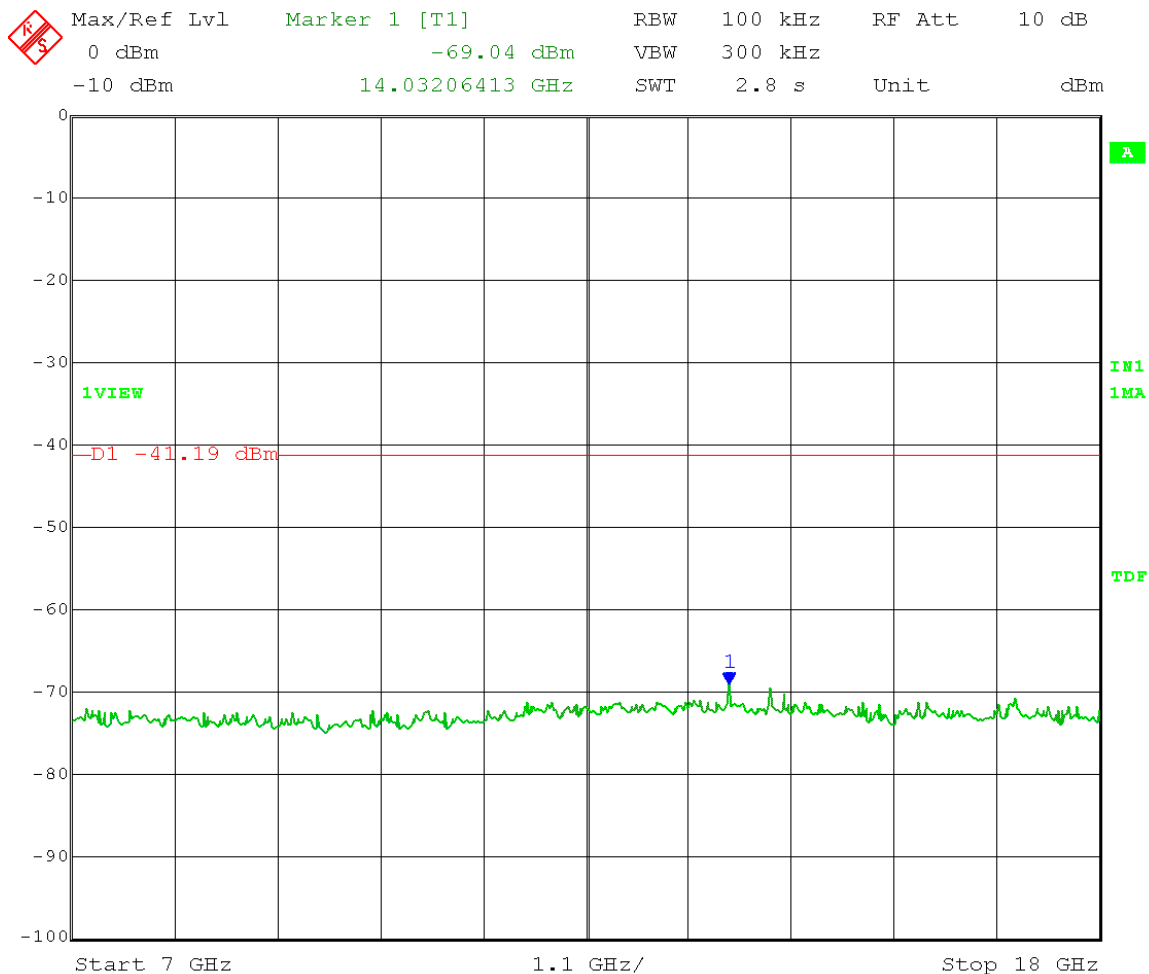
Date: 25.MAR.2014 10:03:28

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -11.19 dBm - 30 dB = -41.19 dBm
 Frequency Range: 1 - 7 GHz



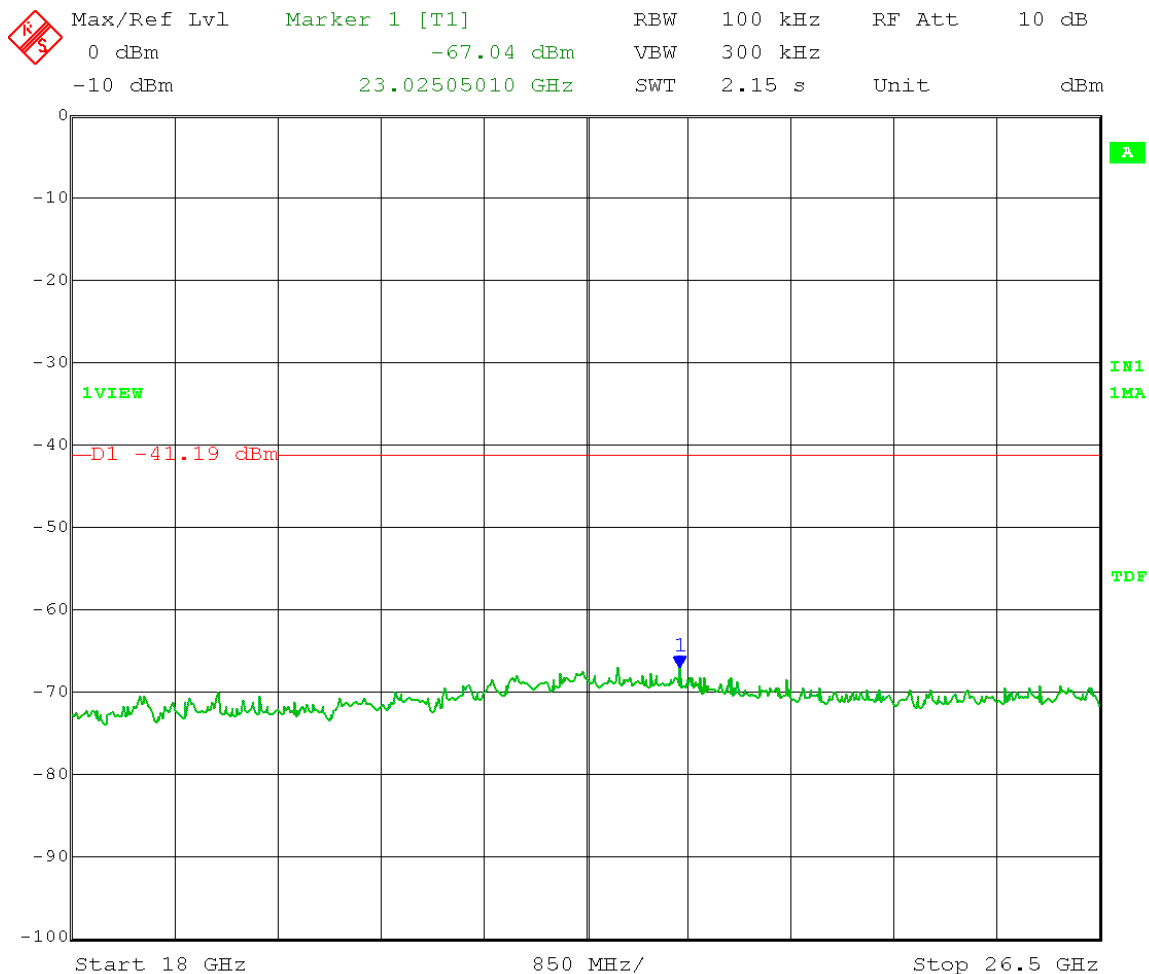
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.835 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 20 MHz channel BW
Emission Level measurement
 Limit = -11.19 dBm - 30 dB = -41.19 dBm
 Frequency Range: 7 - 18 GHz



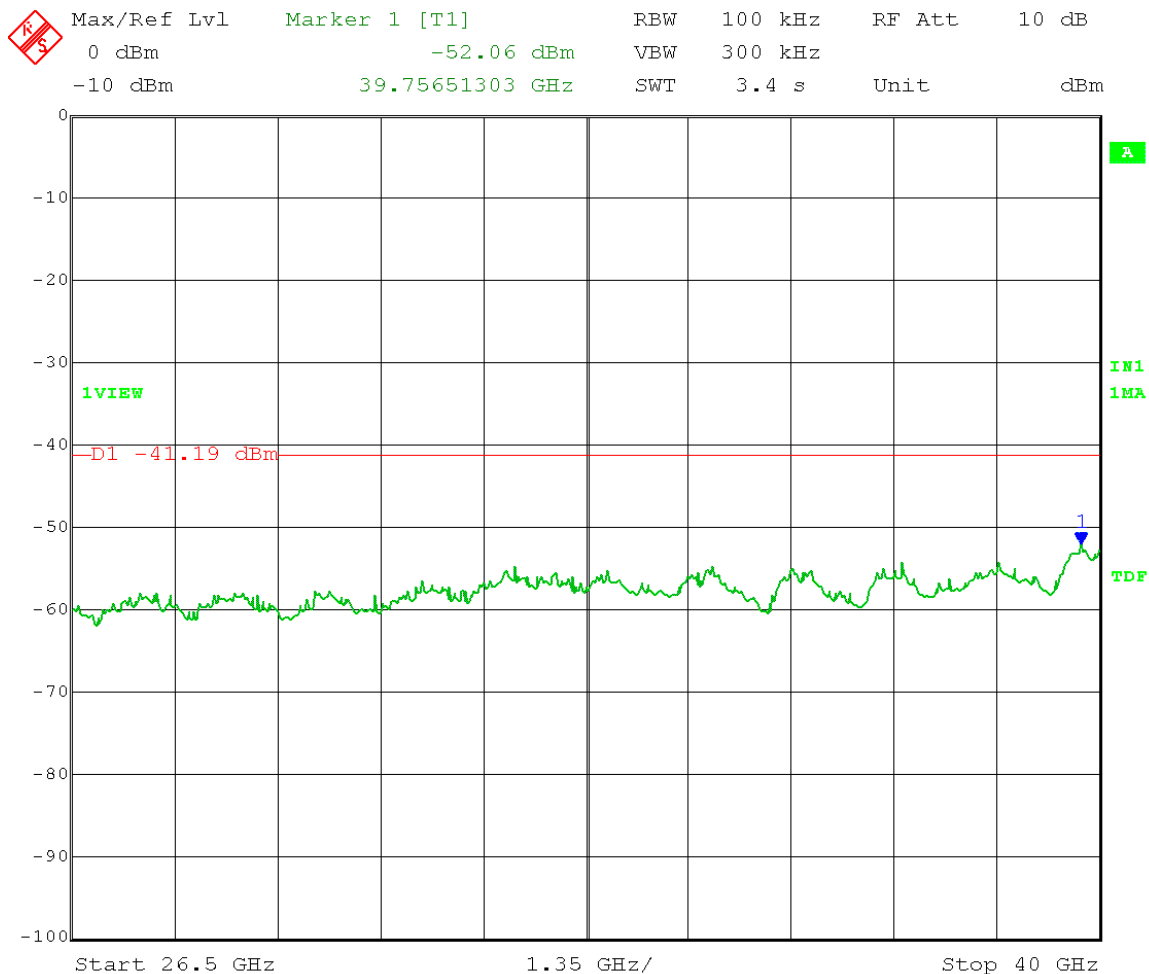
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 5.835 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -11.19 dBm - 30 dB = -41.19 dBm
Frequency Range: 18 - 26.5 GHz



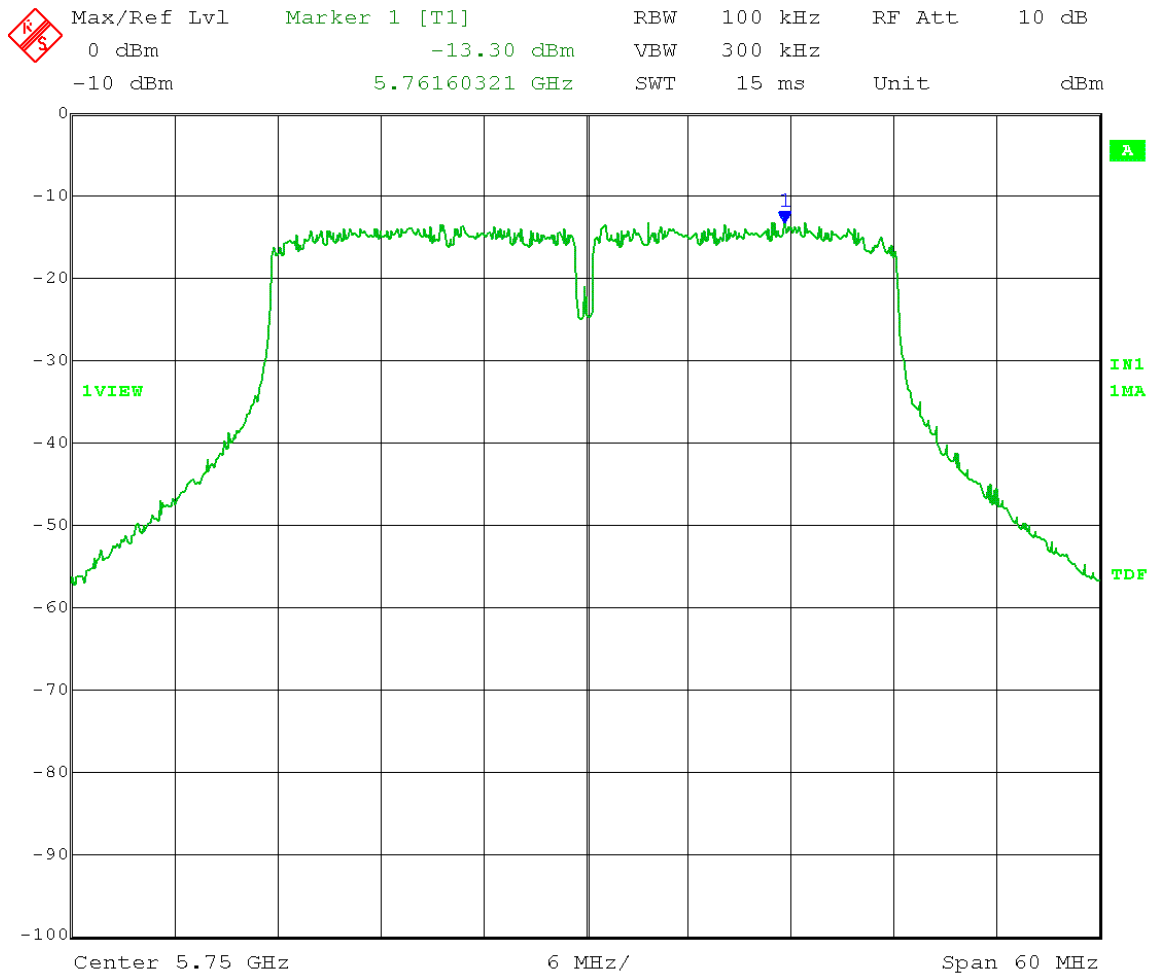
Date: 25.MAR.2014 10:00:39

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 5.835 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 20 MHz channel BW
Emission Level measurement
Limit = -11.19 dBm - 30 dB = -41.19 dBm
Frequency Range: 26.5 - 40 GHz



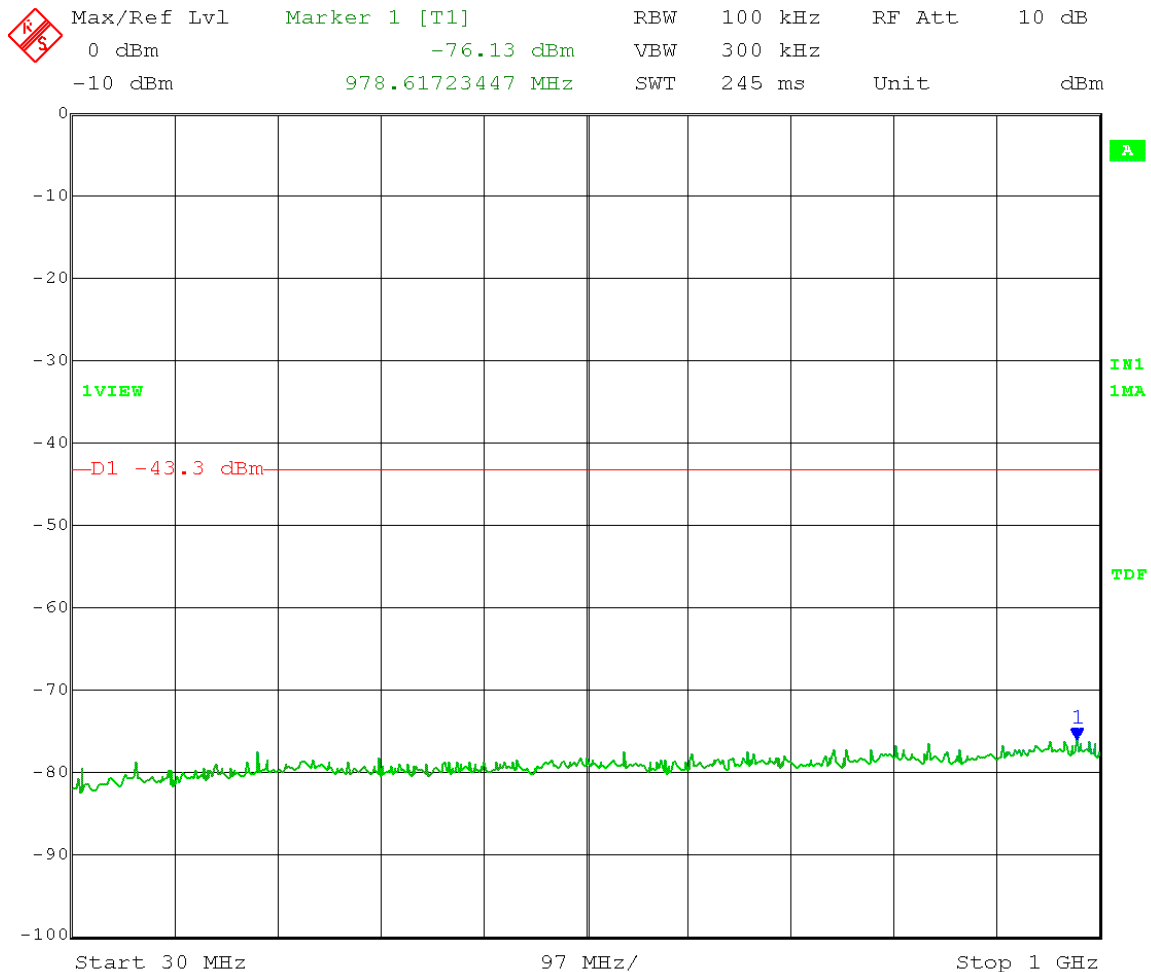
Date: 25.MAR.2014 10:01:57

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -13.30 dBm - 30 dB = -43.30 dBm



Date: 25.MAR.2014 10:29:08

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.30 dBm - 30 dB = -43.30 dBm
 Frequency Range: 30 - 1000 MHz



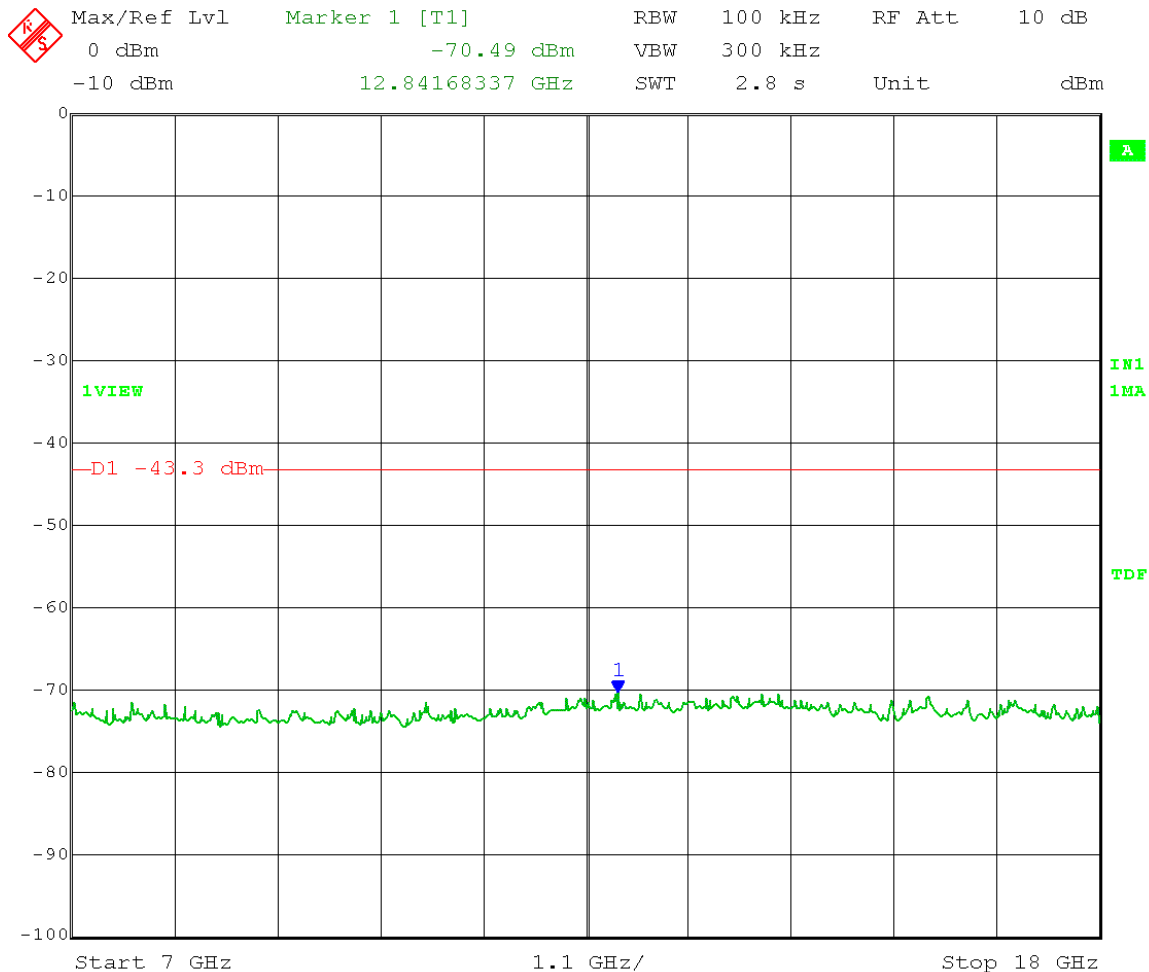
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.30 dBm - 30 dB = -43.30 dBm
 Frequency Range: 1 - 7 GHz



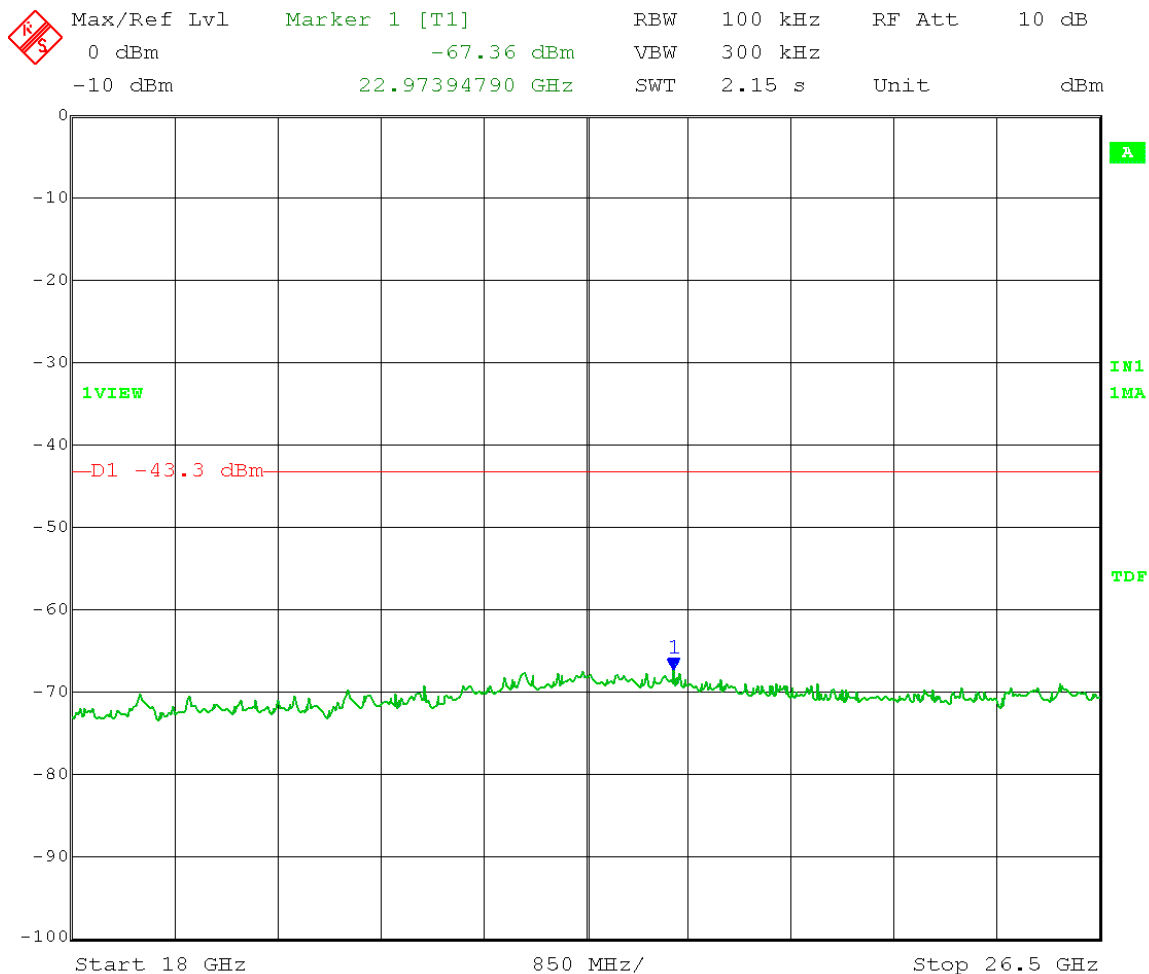
Date: 25.MAR.2014 10:31:33

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -13.30 dBm - 30 dB = -43.30 dBm
Frequency Range: 7 - 18 GHz



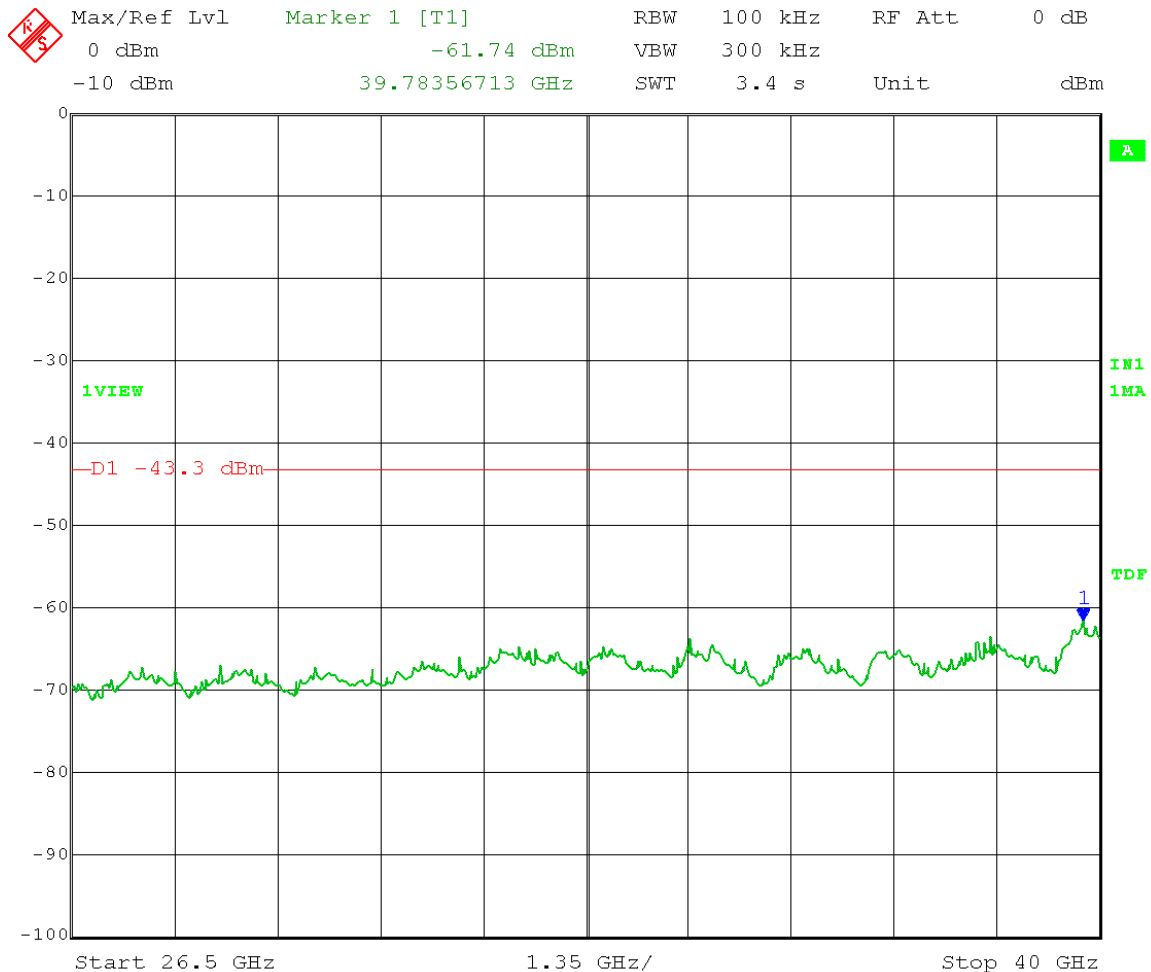
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 5.750 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.30 dBm - 30 dB = -43.30 dBm
 Frequency Range: 18 - 26.5 GHz



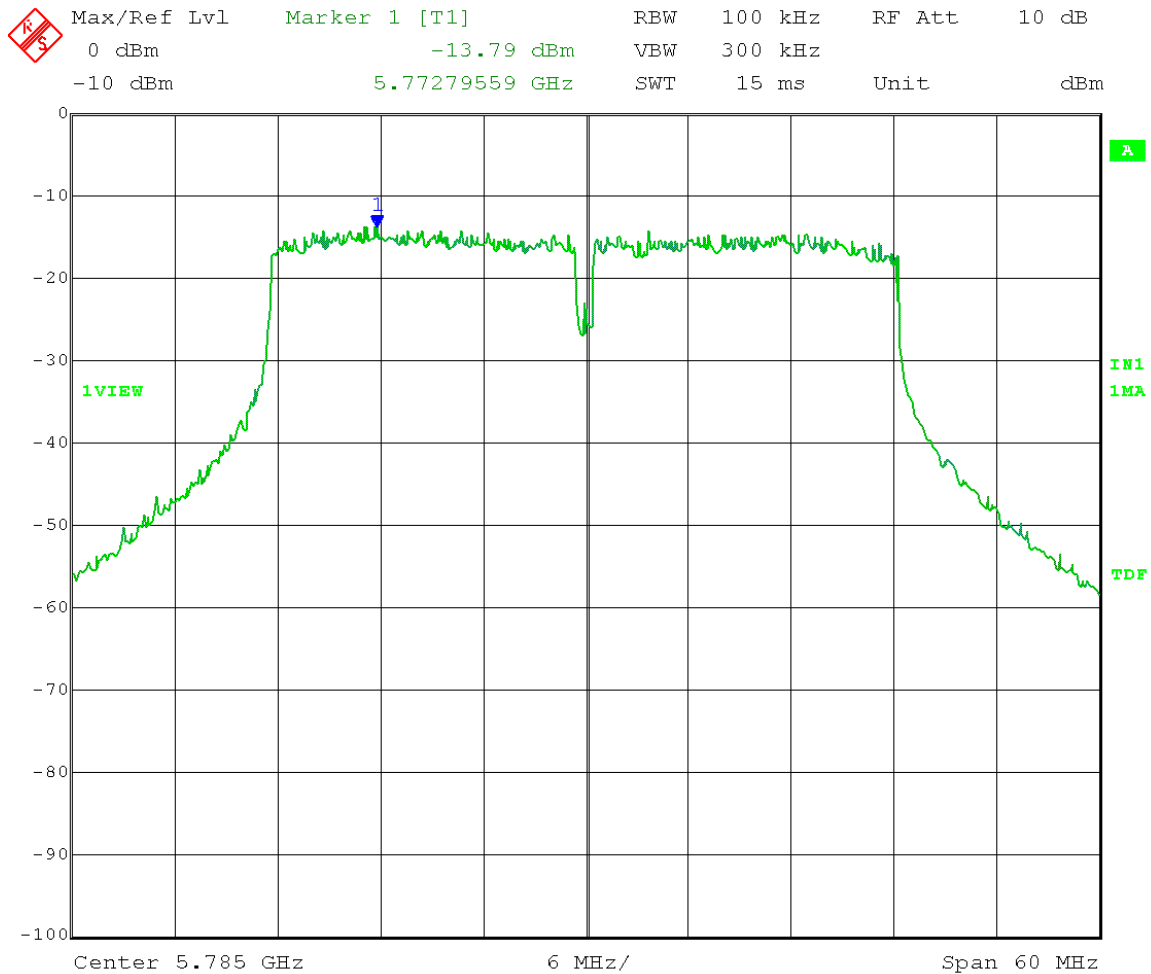
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Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Maximum Unwanted Emission Levels - Conducted
Operator: Craig B
Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 5.750 GHz
Output power setting 1.0 Point-to-Multipoint mode
Channel 1 40 MHz channel BW
Emission Level measurement
Limit = -13.30 dBm - 30 dB = -43.30 dBm
Frequency Range: 26.5 - 40 GHz



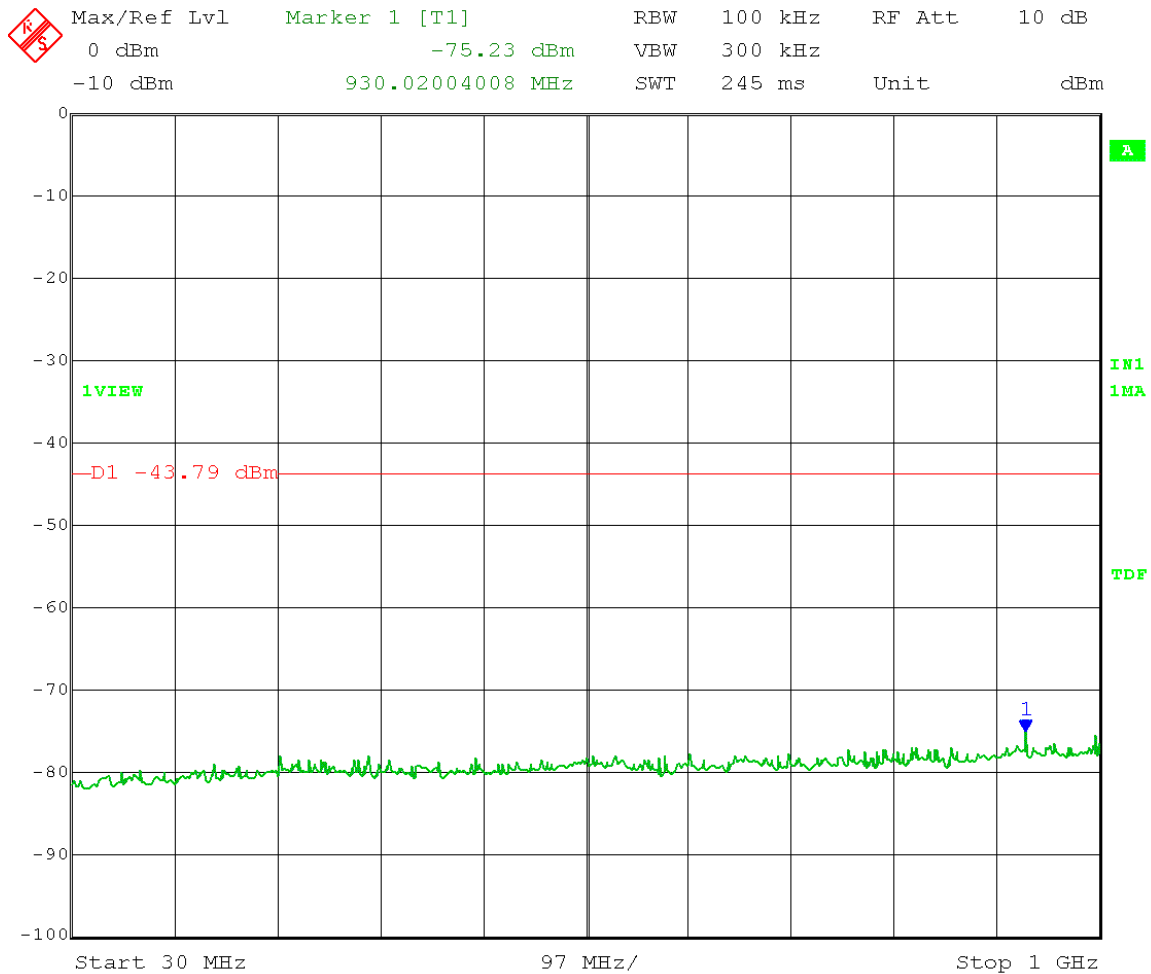
Date: 25.MAR.2014 10:36:02

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm



Date: 25.MAR.2014 10:17:42

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm
 Frequency Range: 30 - 1000 MHz



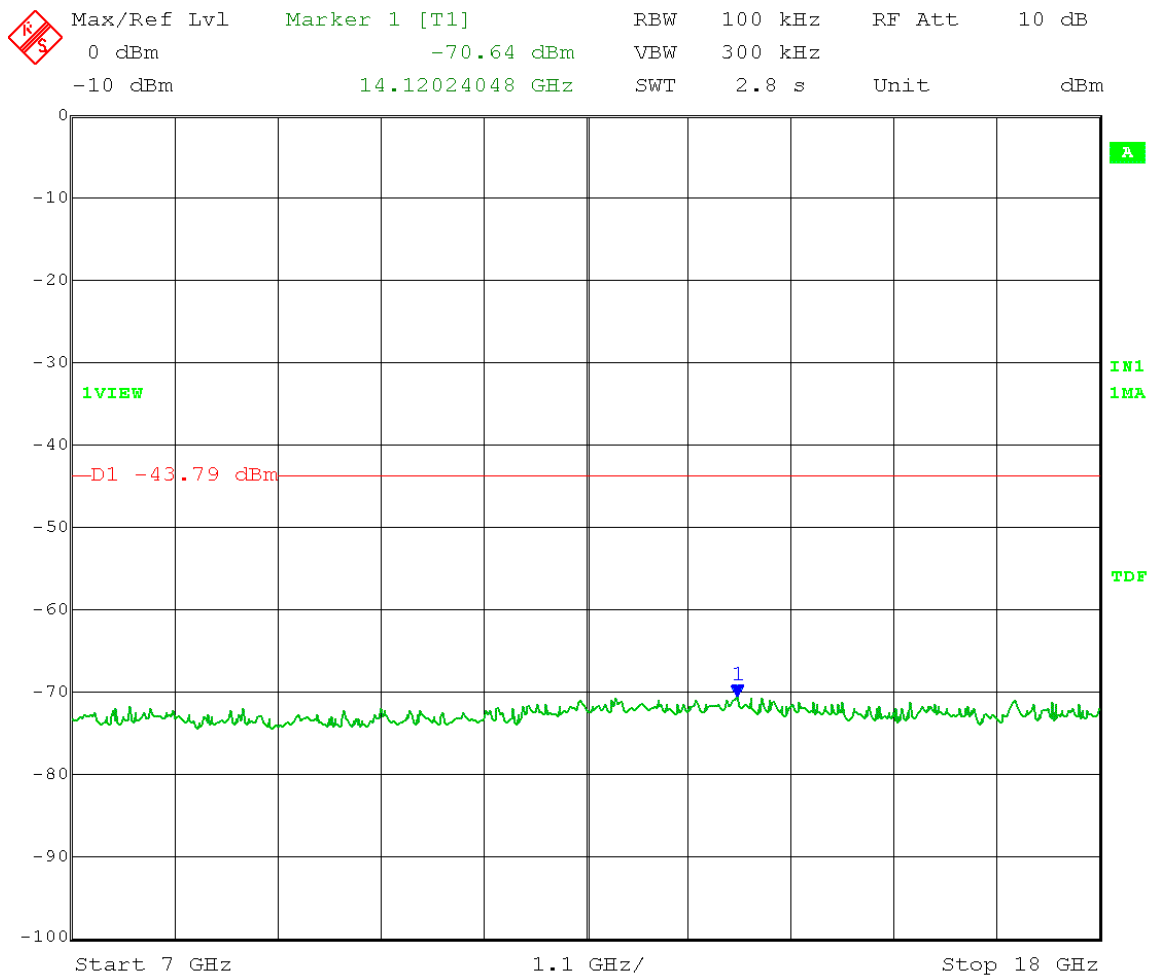
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm
 Frequency Range: 1 - 7 GHz



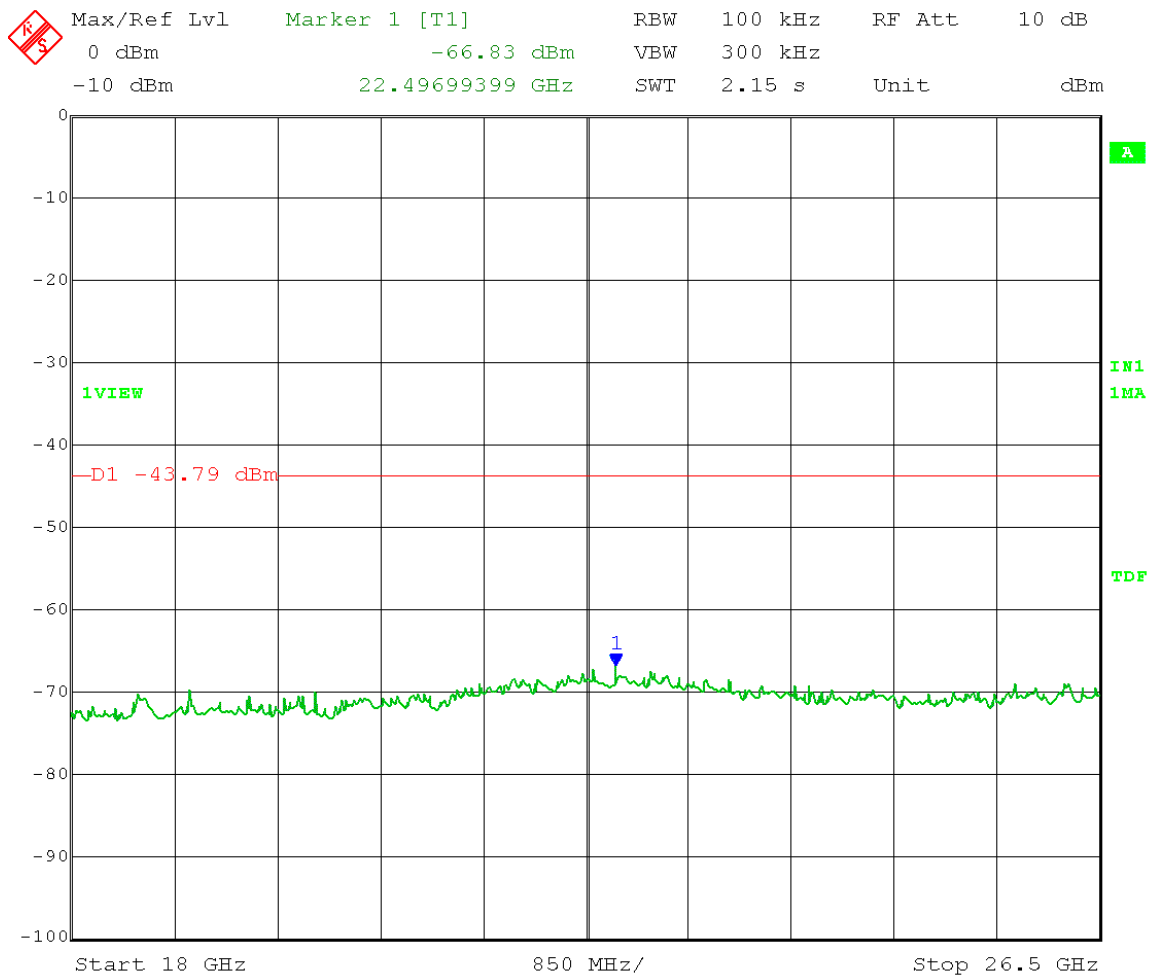
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm
 Frequency Range: 7 - 18 GHz



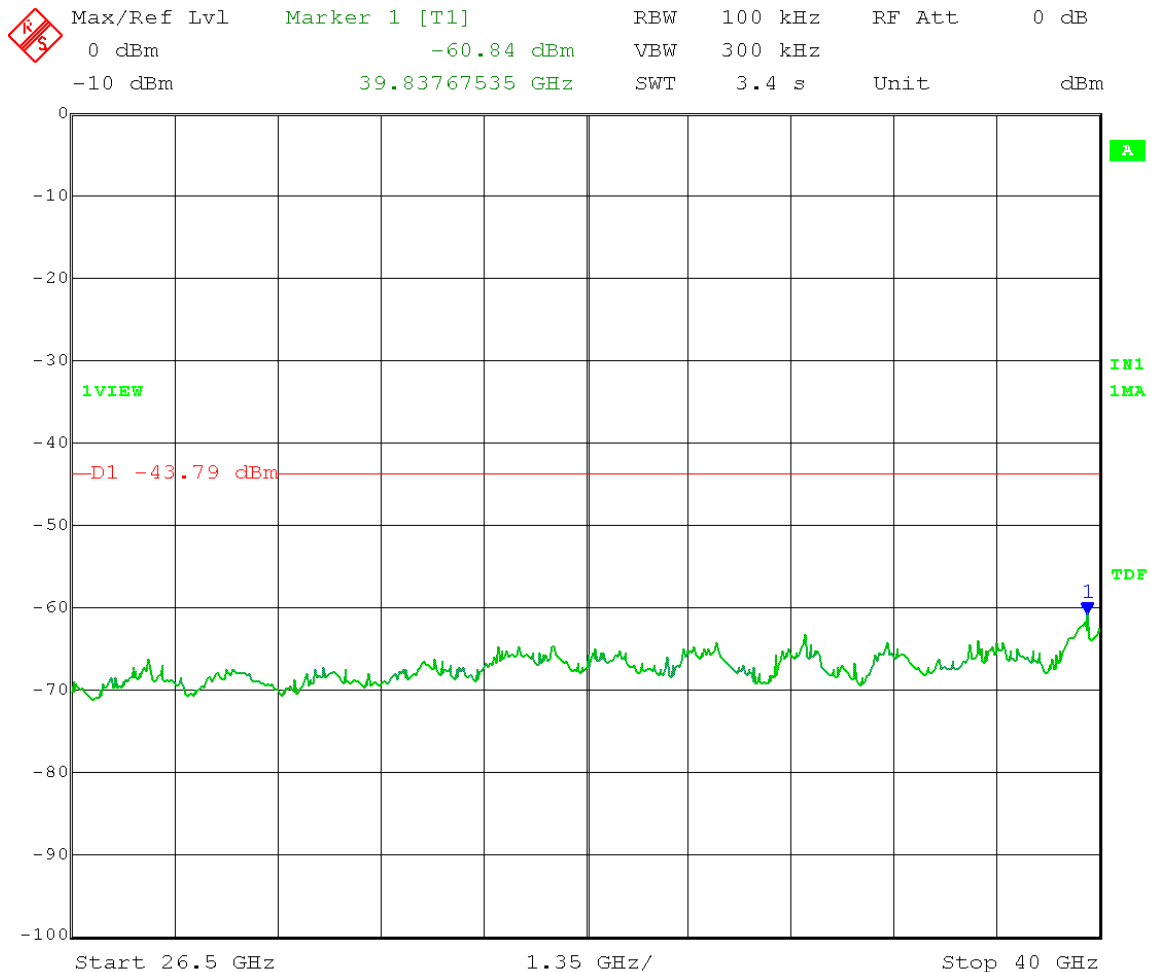
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm
 Frequency Range: 18 - 26.5 GHz



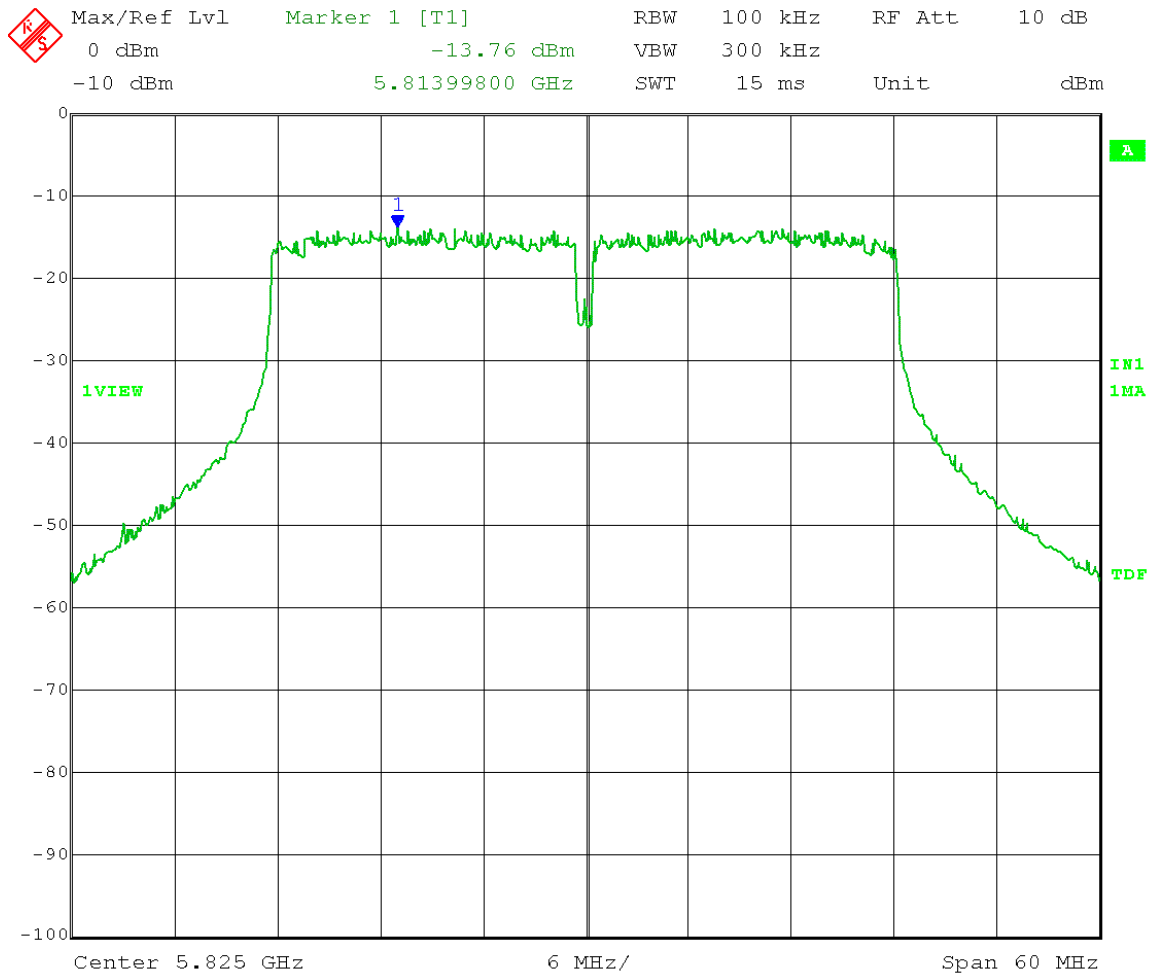
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Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 5.785 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.79 dBm - 30 dB = -43.79 dBm
 Frequency Range: 26.5 - 40 GHz



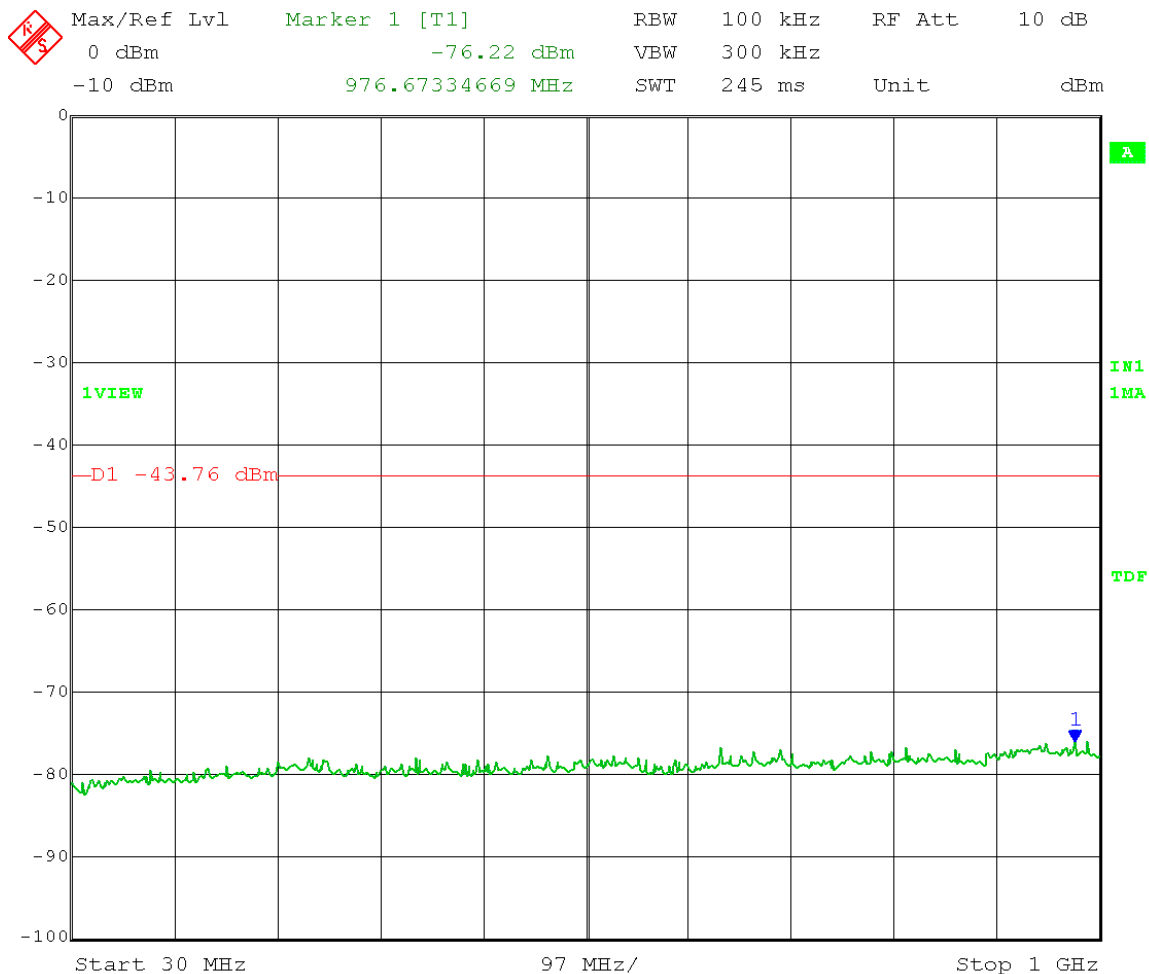
Date: 25.MAR.2014 10:24:17

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Reference Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm



Date: 25.MAR.2014 10:41:07

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm
 Frequency Range: 30 - 1000 MHz



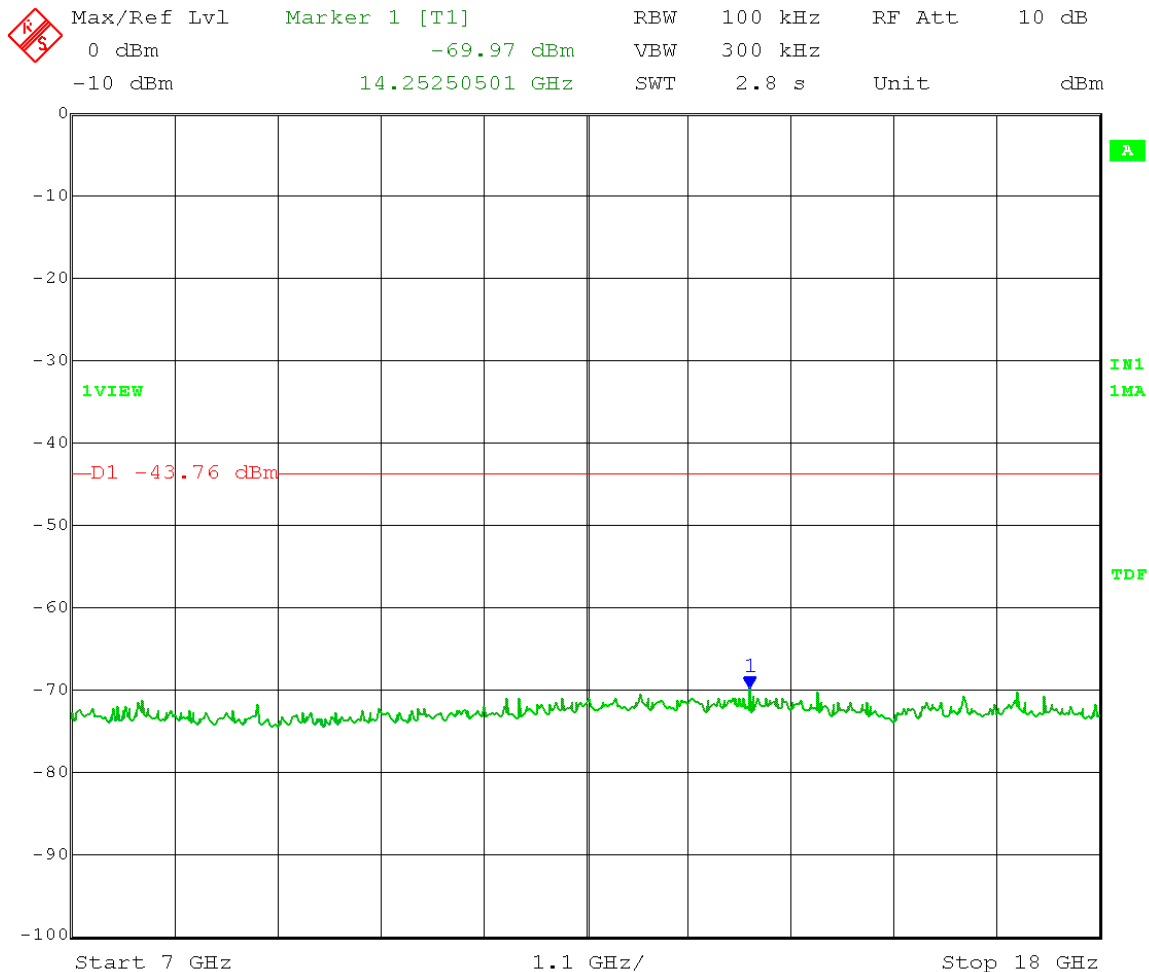
Date: 25.MAR.2014 10:50:14

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm
 Frequency Range: 1 - 7 GHz



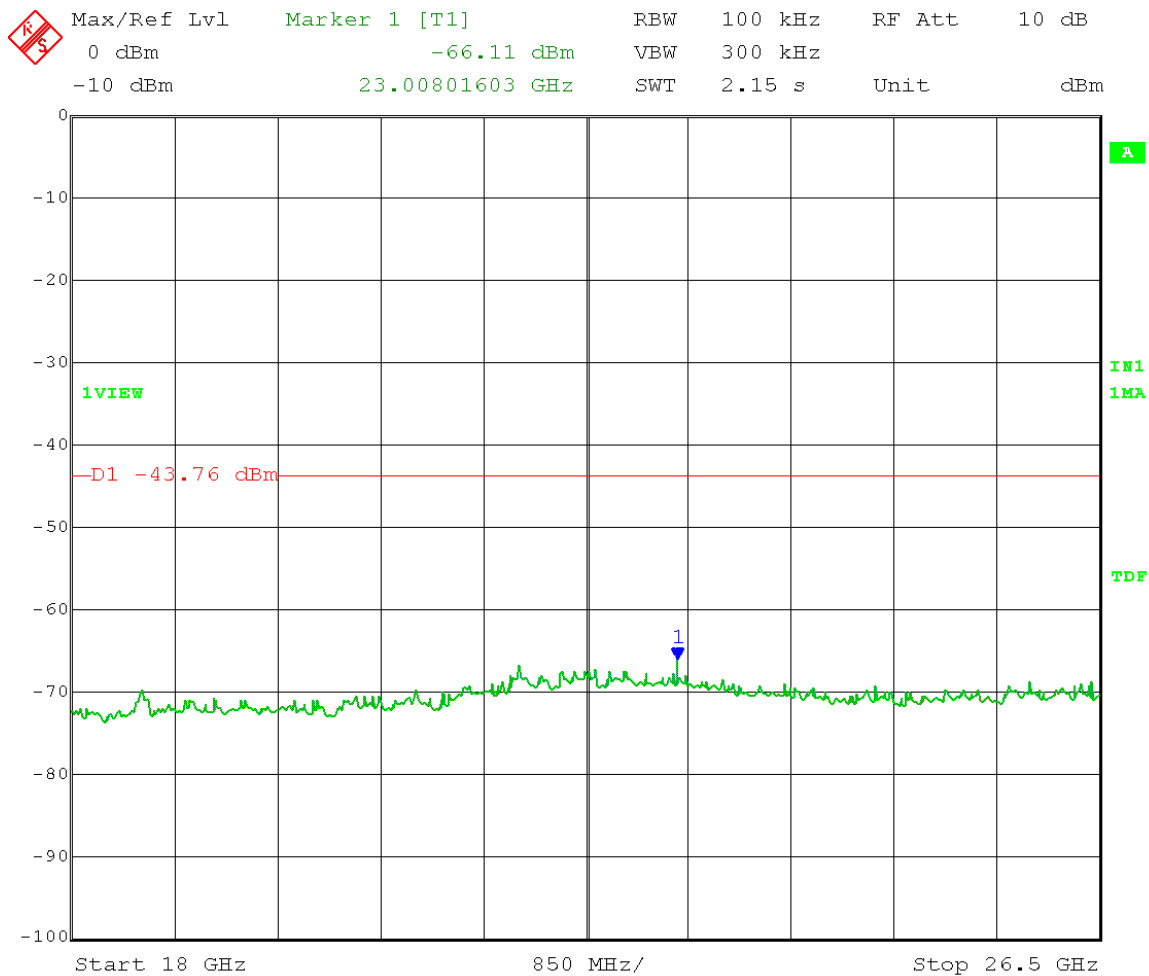
Date: 25.MAR.2014 10:43:28

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm
 Frequency Range: 7 - 18 GHz



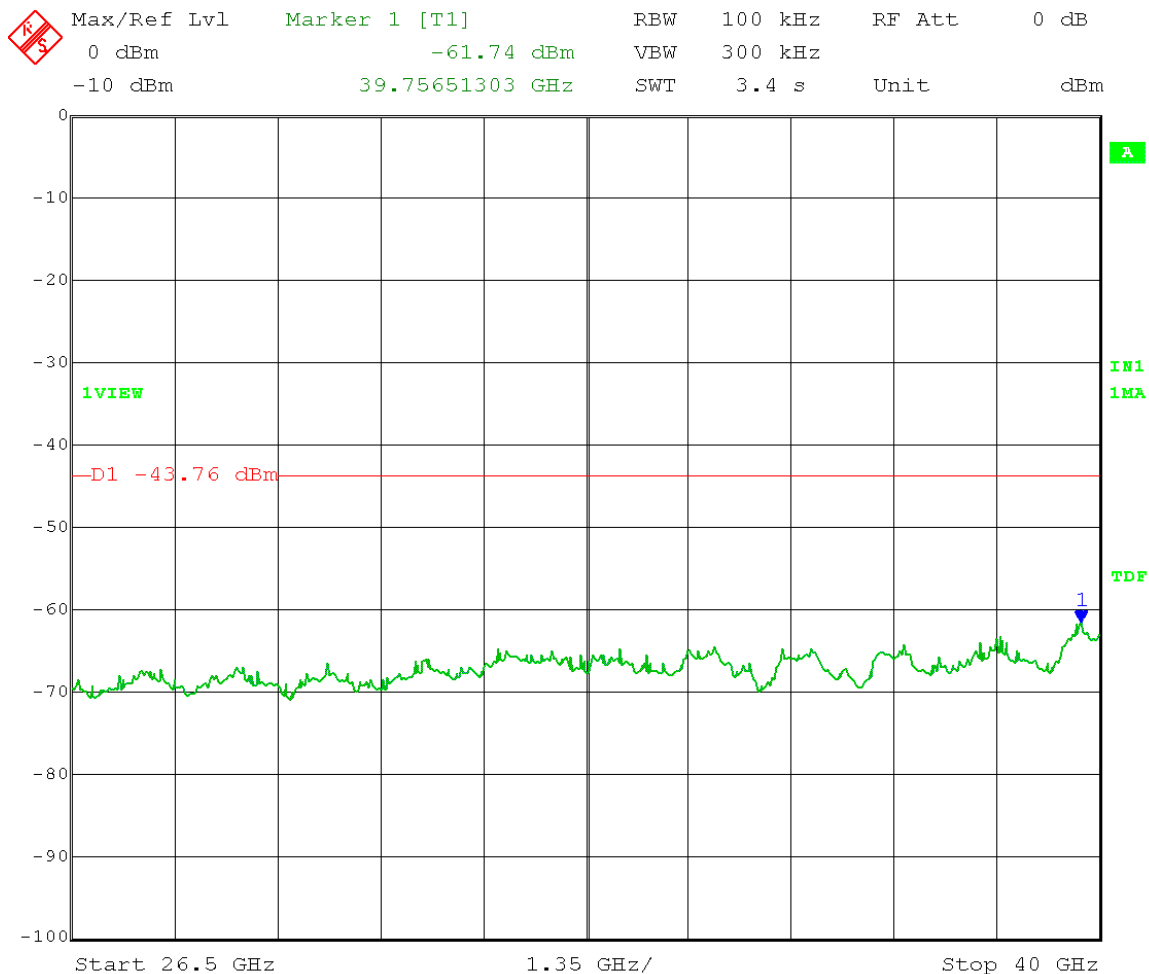
Date: 25.MAR.2014 10:45:13

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm
 Frequency Range: 18 - 26.5 GHz



Date: 25.MAR.2014 10:46:57

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Maximum Unwanted Emission Levels - Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz VBW $\geq$ 300 kHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 5.825 GHz
 Output power setting 1.0 Point-to-Multipoint mode
 Channel 1 40 MHz channel BW
Emission Level measurement
 Limit = -13.76 dBm - 30 dB = -43.76 dBm
 Frequency Range: 26.5 - 40 GHz



Date: 25.MAR.2014 10:48:25



Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

166 South Carter, Genoa City, WI 53128

Appendix B – Measurement Data

B4.0 Operating Band Edge measurements - RF Conducted

Rule Section: Section 15.247(d)

FCC KDB 558074 D01 DTS Meas Guidance v03r01 – *Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247*

11.0 Emissions in non-restricted frequency bands

Test Procedure: RBW = 100 kHz
VBW $\geq$ 300 kHz
Span = spectrum to be examined
Detector = peak
Sweep = auto couple
Trace mode = max hold

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle.

Limit: 30 dB below maximum in-band average PSD level (maximum level in any 100 kHz band). Average output power procedure was used to measure the fundamental emission power.

Results: Passed

Notes: Tested output port 1 only as it was determined to be worst case from previous testing of this device (original certification).



166 South Carter, Genoa City, WI 53128

Company:	Cambium Networks
Model Tested:	C058900P122A
Report Number:	19896
DLS Project:	6493

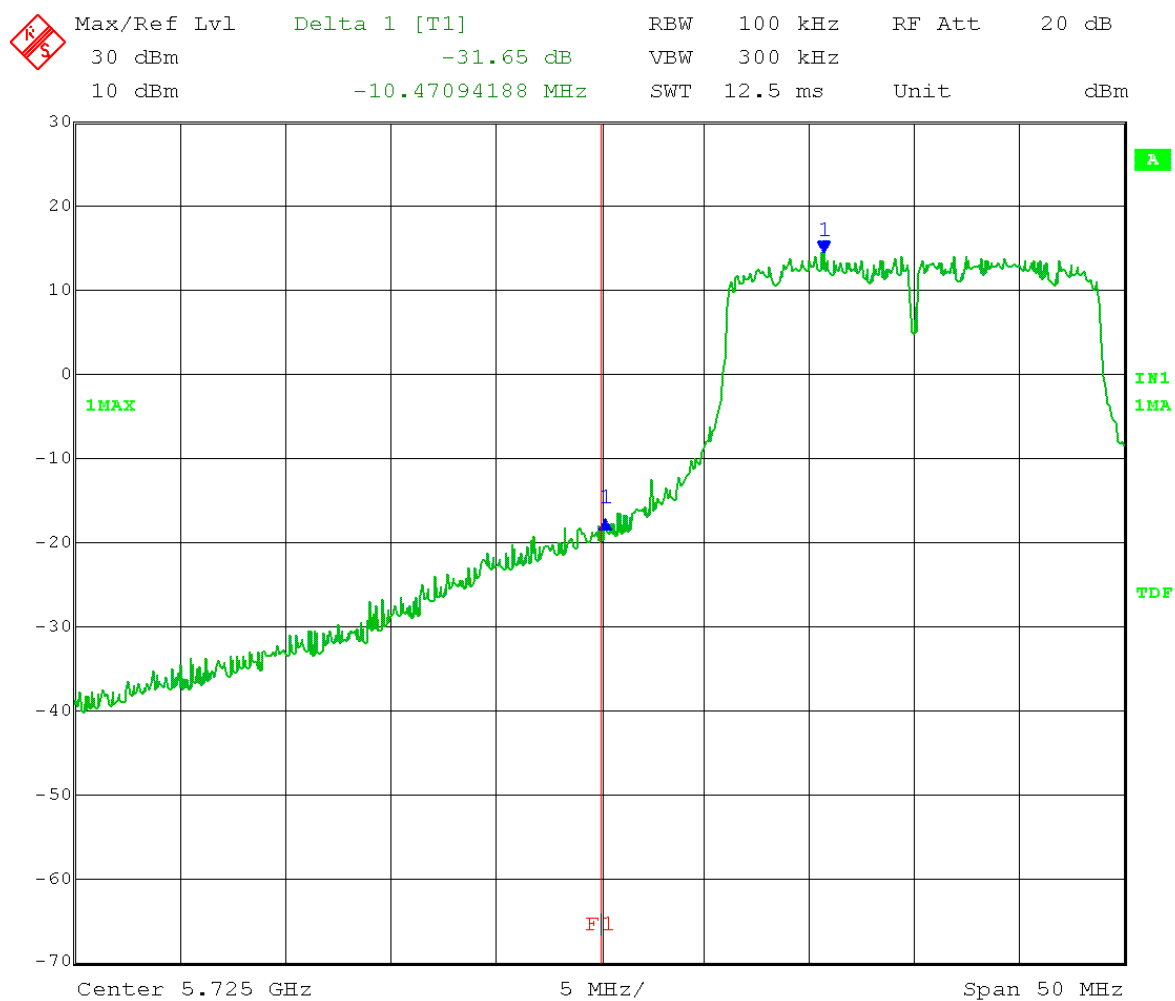
**For the data showing the
Point-to-Point
compliance for both the
20MHz & 40MHz Channel Bandwidths
with the Panel Antenna**

**See the Point-to-Point data
with the Dish Antenna
on the following pages.**

The same power settings are used.

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 Low Channel Transmit = 5.740 GHz
 20 MHz channel BW
 Limit: > 30 dB below in-band emission

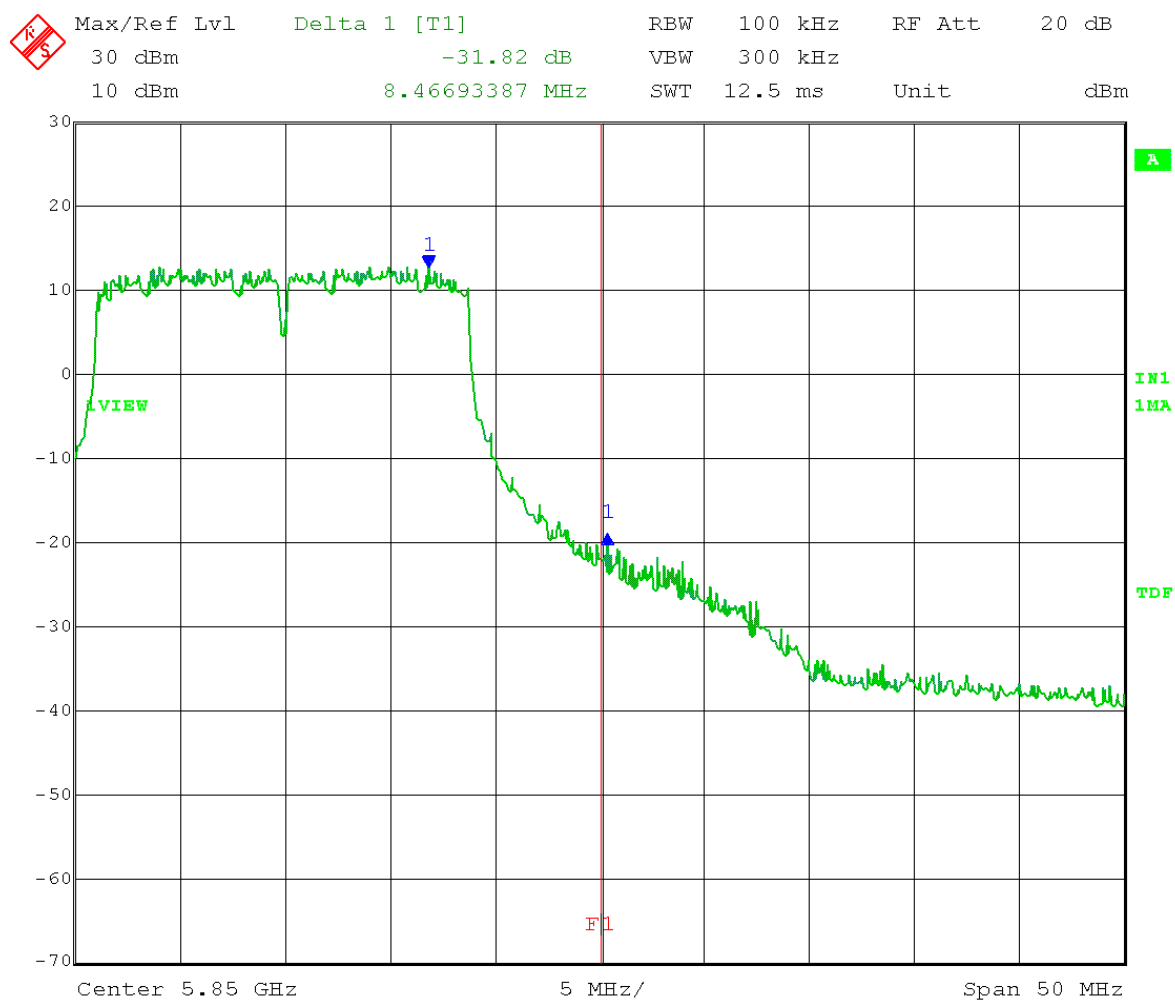
Point-to-Point mode
 Output power setting: 28.5
 Band-edge = 5.725 GHz



Date: 25.MAR.2014 13:58:46

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 High Channel Transmit = 5.835 GHz
 20 MHz channel BW
 Limit: > 30 dB below in-band emission

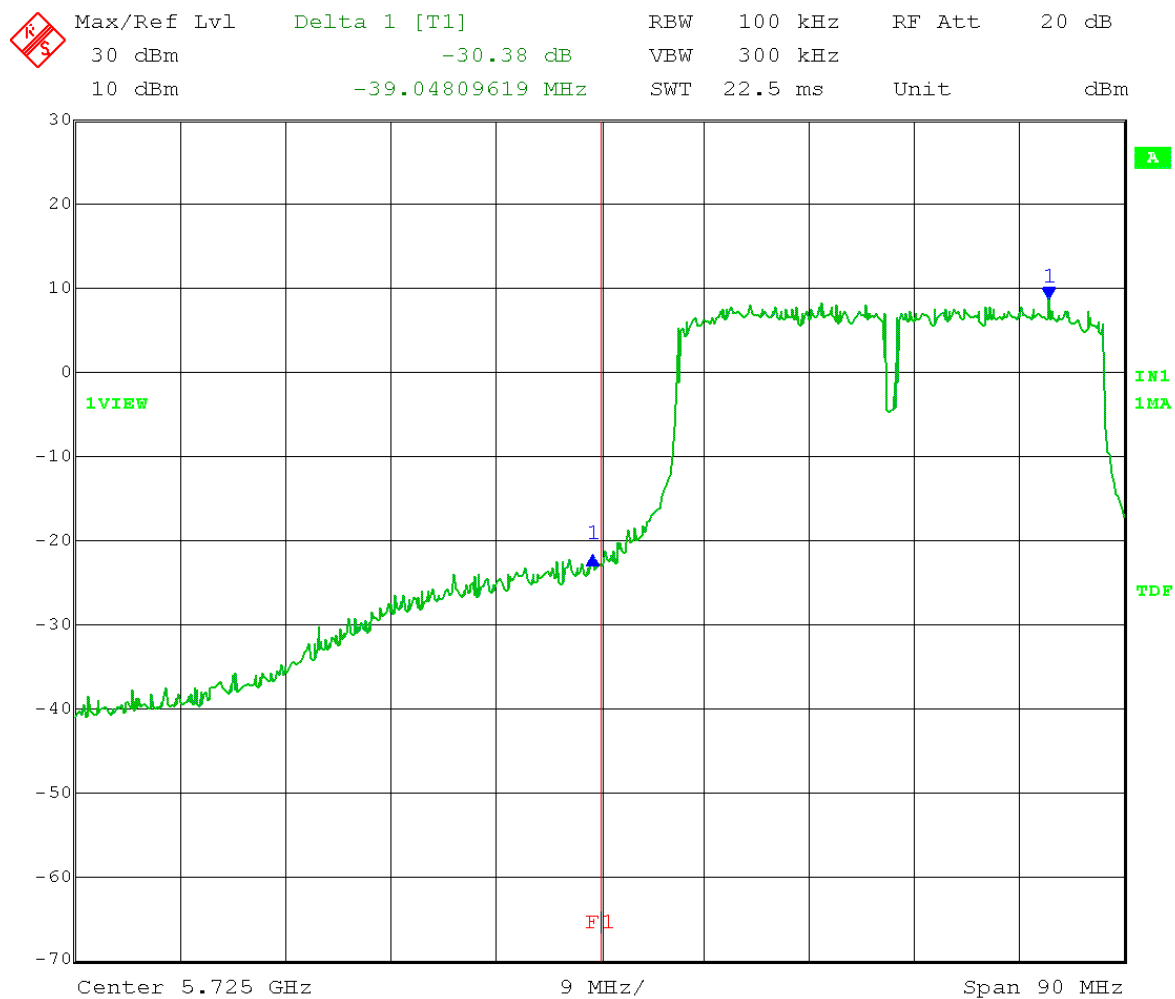
Point-to-Point mode
 Output power setting: 28.5
 Band-edge = 5.850 GHz



Date: 25.MAR.2014 14:03:01

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Band-Edge Measurements – RF Conducted
Operator: Craig B
Comment: RBW = 100 kHz
VBW $\geq$ 300 kHz
Detector = Peak
Trace = Max Hold
Low Channel Transmit = 5.750 GHz
40 MHz channel BW
Limit: > 30 dB below in-band emission

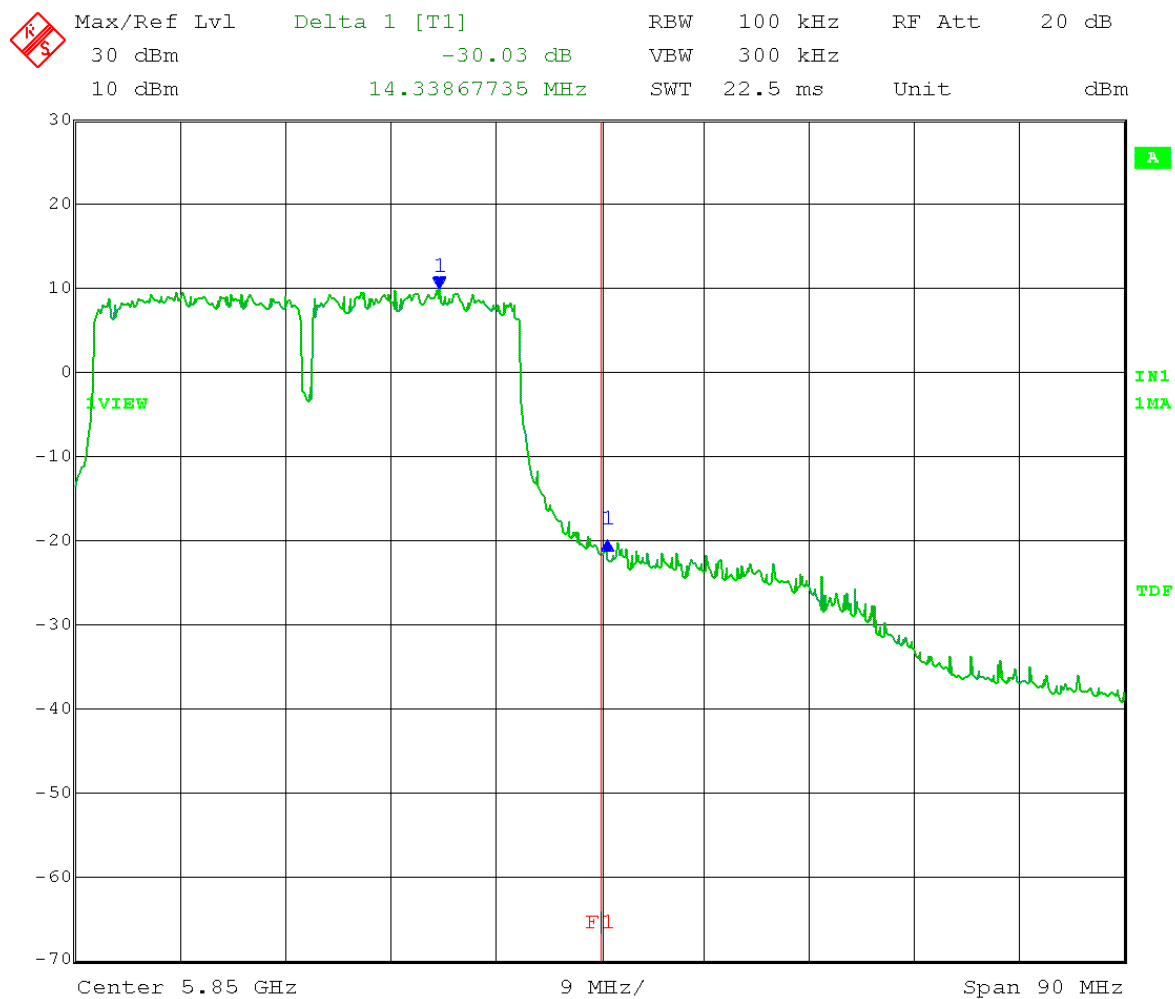
Point-to-Point mode
Output power setting: 26.0
Band-edge = 5.725 GHz



Date: 25.MAR.2014 14:32:14

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 High Channel Transmit = 5.825 GHz
 40 MHz channel BW
 Limit: > 30 dB below in-band emission

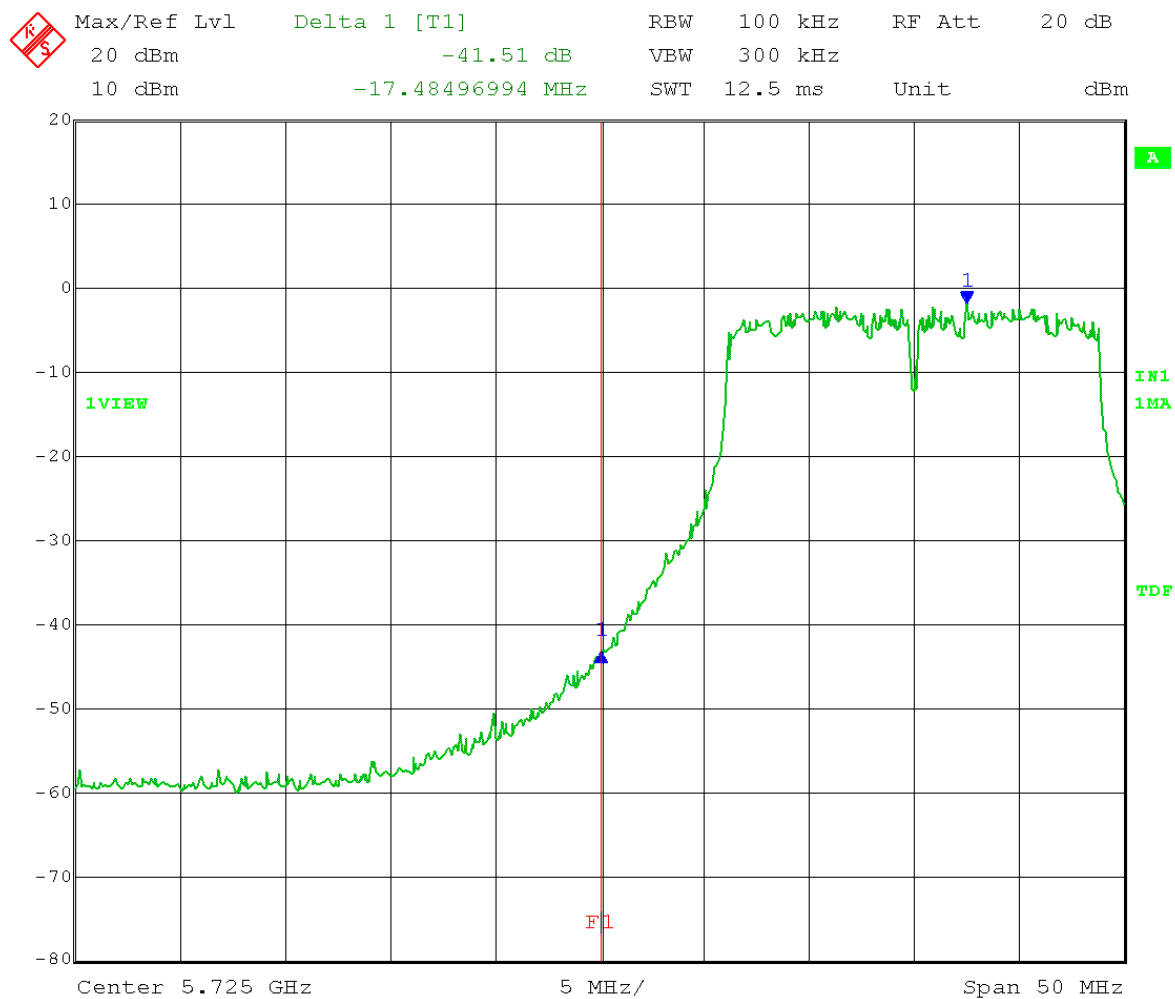
Point-to-Point mode
 Output power setting: 28.5
 Band-edge = 5.850 GHz



Date: 25.MAR.2014 14:07:36

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 Low Channel Transmit = 5.740 GHz
 20 MHz channel BW
 Limit: > 30 dB below in-band emission

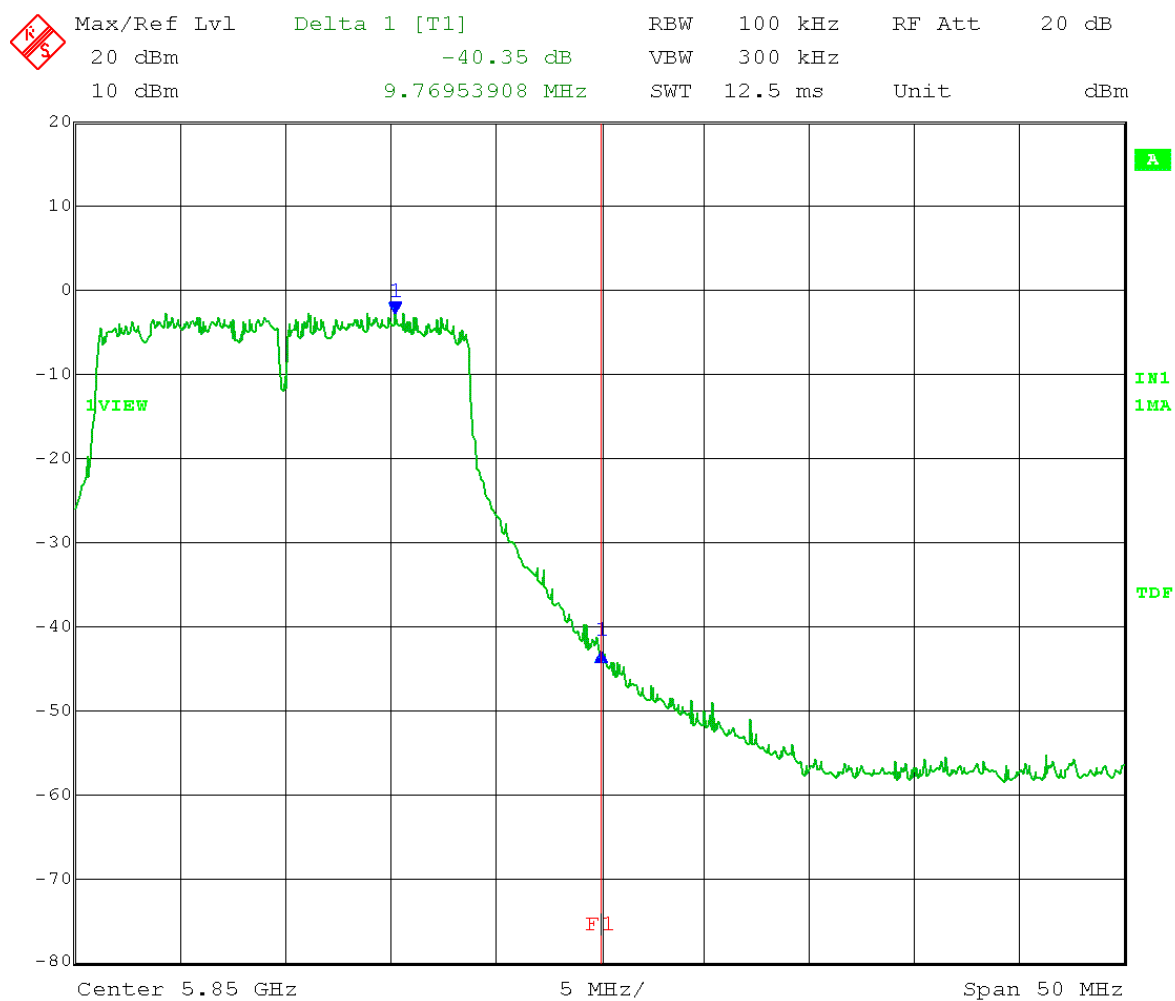
Point-to-Multipoint mode
 Output power setting: 10.0
 Band-edge = 5.725 GHz



Date: 25.MAR.2014 13:49:32

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 High Channel Transmit = 5.835 GHz
 20 MHz channel BW
 Limit: > 30 dB below in-band emission

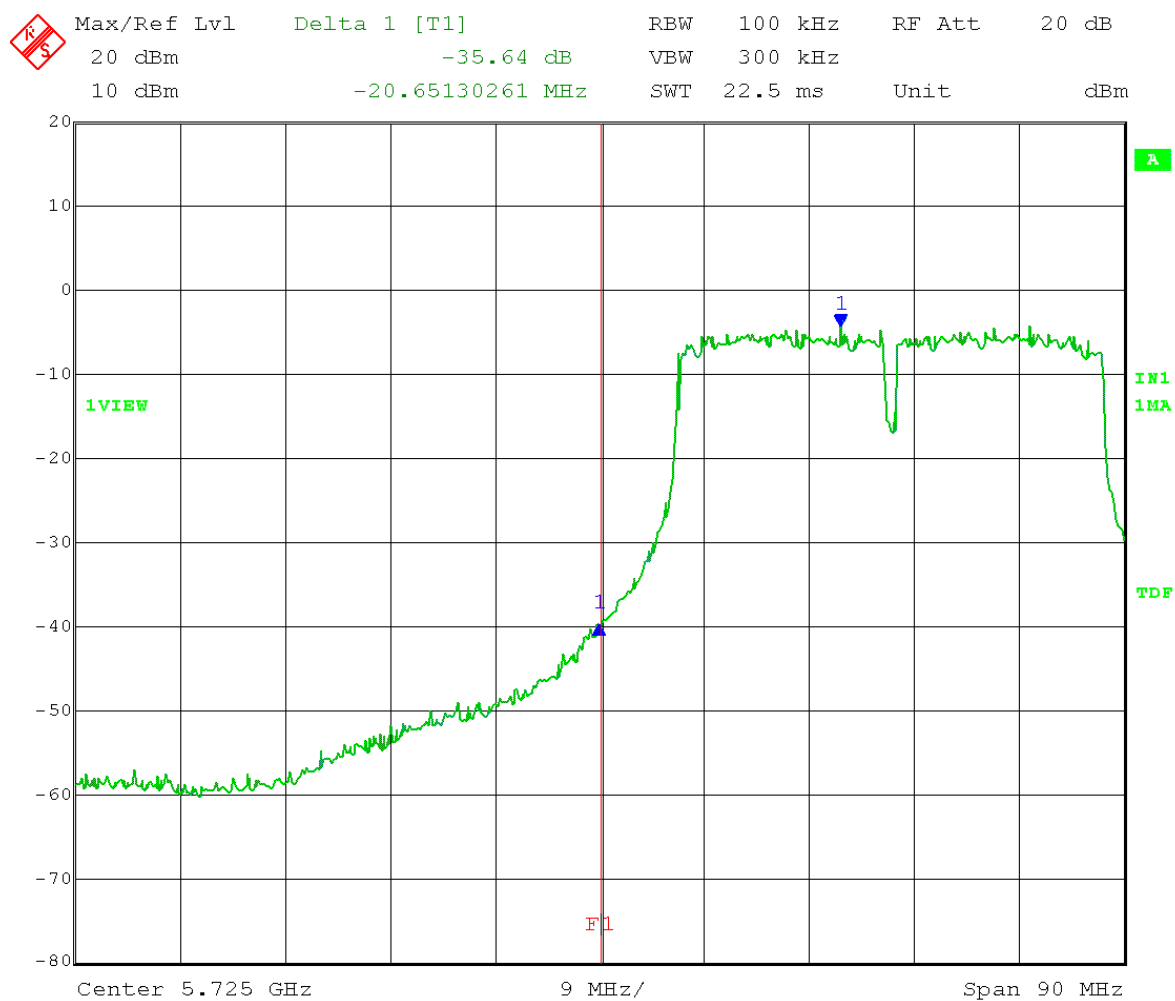
Point-to-Multipoint mode
 Output power setting: 10.0
 Band-edge = 5.850 GHz



Date: 25.MAR.2014 13:46:57

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 Low Channel Transmit = 5.750 GHz
 40 MHz channel BW
 Limit: > 30 dB below in-band emission

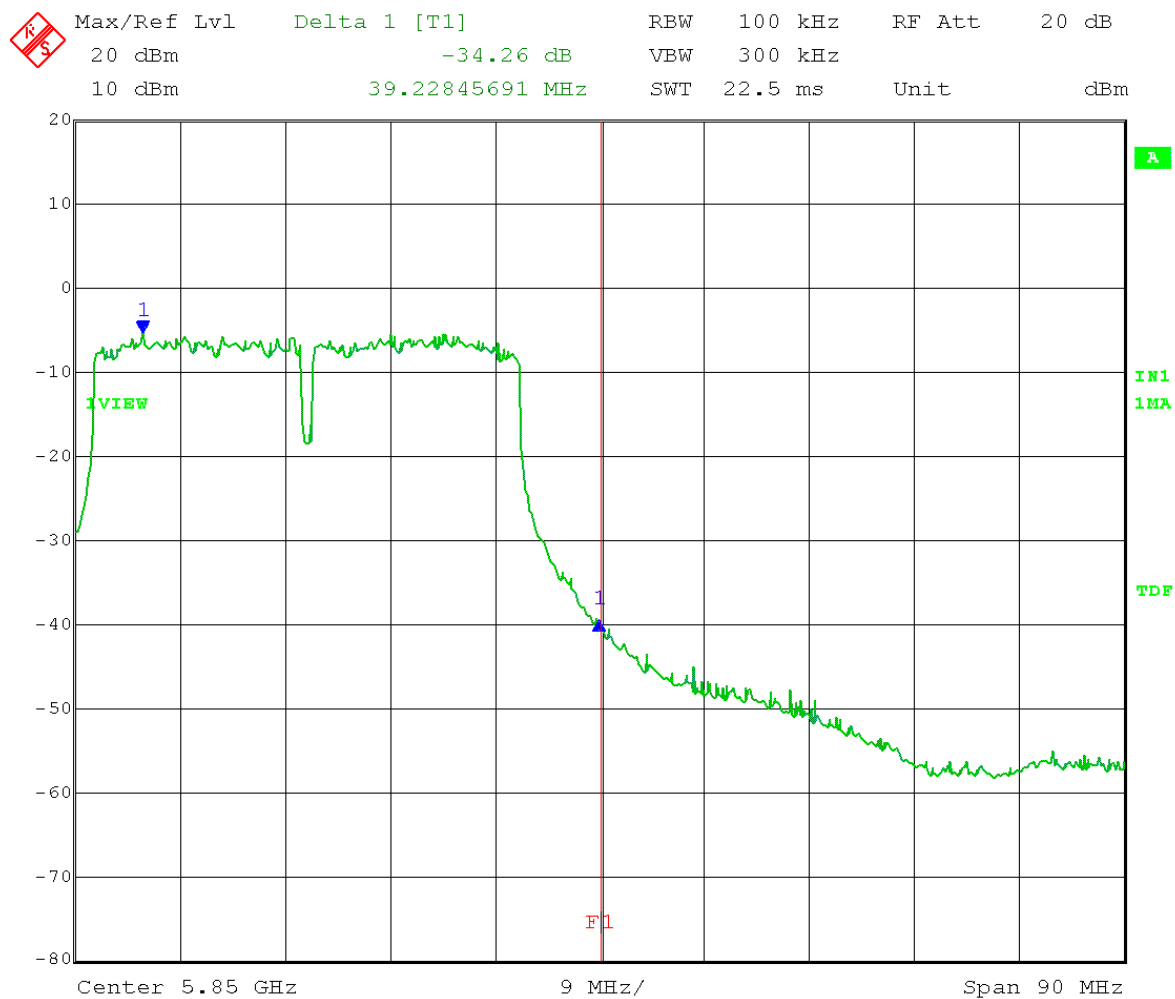
Point-to-Multipoint mode
 Output power setting: 10.5
 Band-edge = 5.725 GHz



Date: 25.MAR.2014 13:41:06

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 High Channel Transmit = 5.825 GHz
 40 MHz channel BW
 Limit: > 30 dB below in-band emission

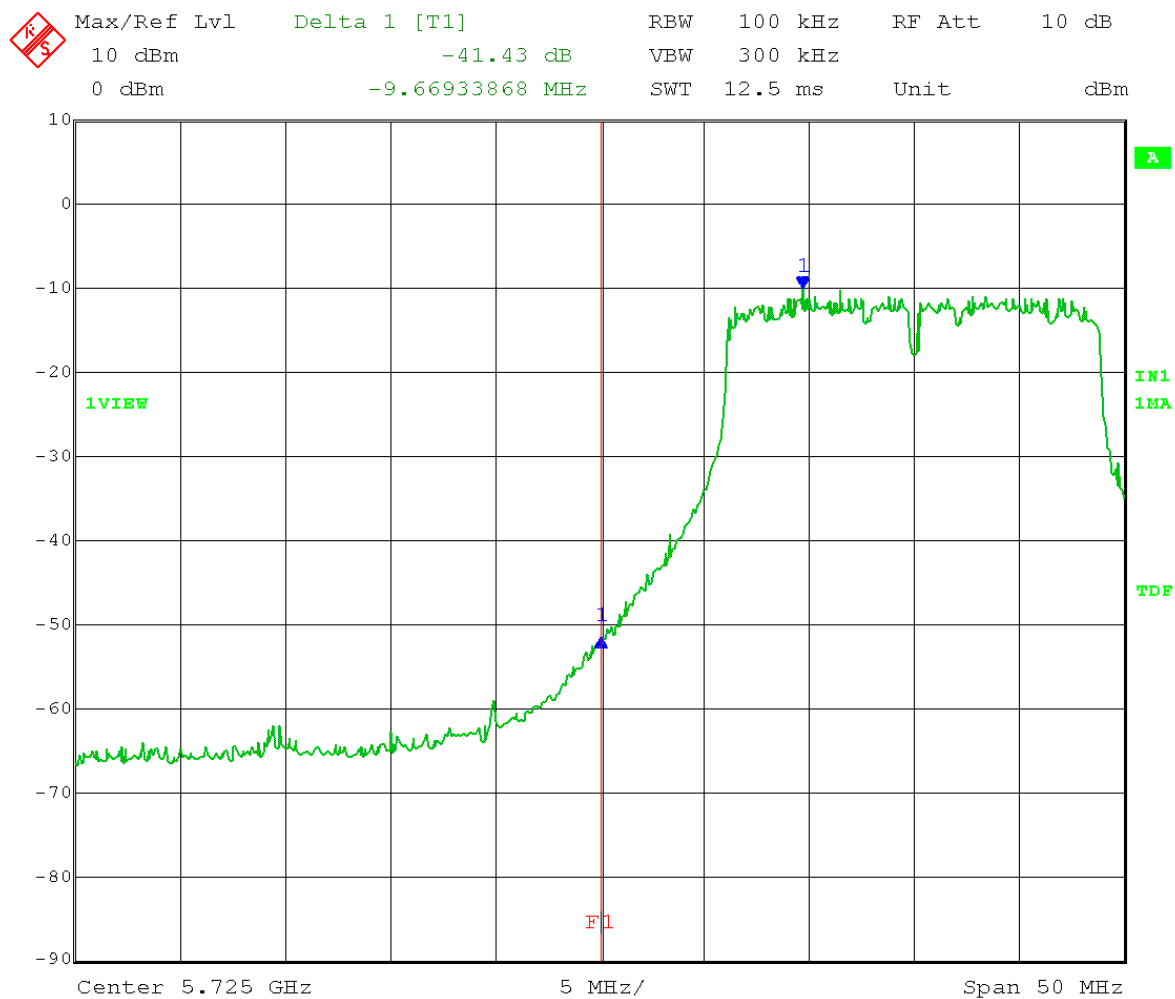
Point-to-Multipoint mode
 Output power setting: 10.0
 Band-edge = 5.850 GHz



Date: 25.MAR.2014 13:44:12

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Band-Edge Measurements – RF Conducted
Operator: Craig B
Comment: RBW = 100 kHz
VBW $\geq$ 300 kHz
Detector = Peak
Trace = Max Hold
Low Channel Transmit = 5.740 GHz
20 MHz channel BW
Limit: > 30 dB below in-band emission

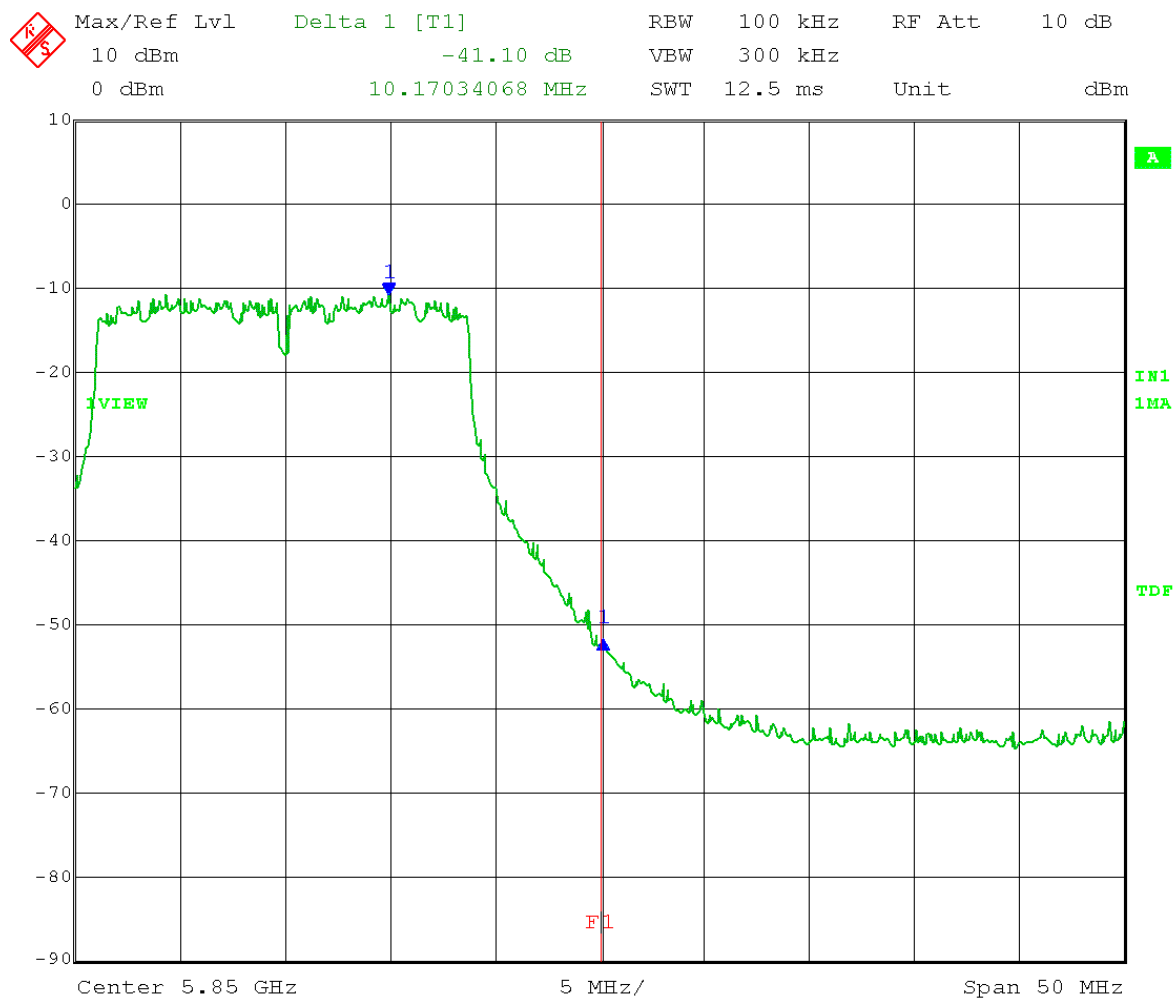
Point-to-Multipoint mode
Output power setting: 1.0
Band-edge = 5.725 GHz



Date: 25.MAR.2014 13:25:48

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Band-Edge Measurements – RF Conducted
Operator: Craig B
Comment: RBW = 100 kHz
VBW $\geq$ 300 kHz
Detector = Peak
Trace = Max Hold
High Channel Transmit = 5.835 GHz
20 MHz channel BW
Limit: > 30 dB below in-band emission

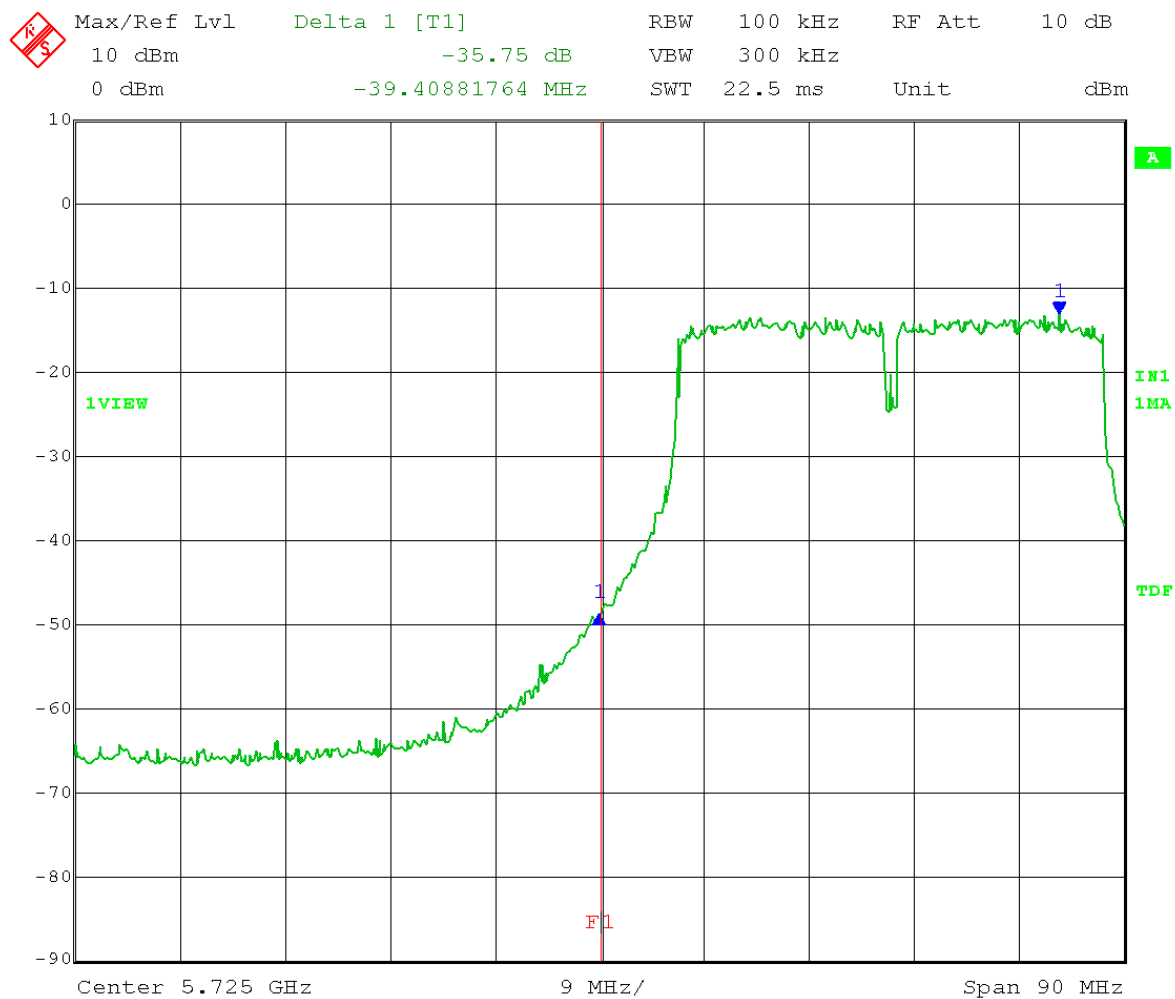
Point-to-Multipoint mode
Output power setting: 1.0
Band-edge = 5.850 GHz



Date: 25.MAR.2014 13:30:40

Test Date: 03-25-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B
 Comment: RBW = 100 kHz
 VBW $\geq$ 300 kHz
 Detector = Peak
 Trace = Max Hold
 Low Channel Transmit = 5.750 GHz
 40 MHz channel BW
 Limit: > 30 dB below in-band emission

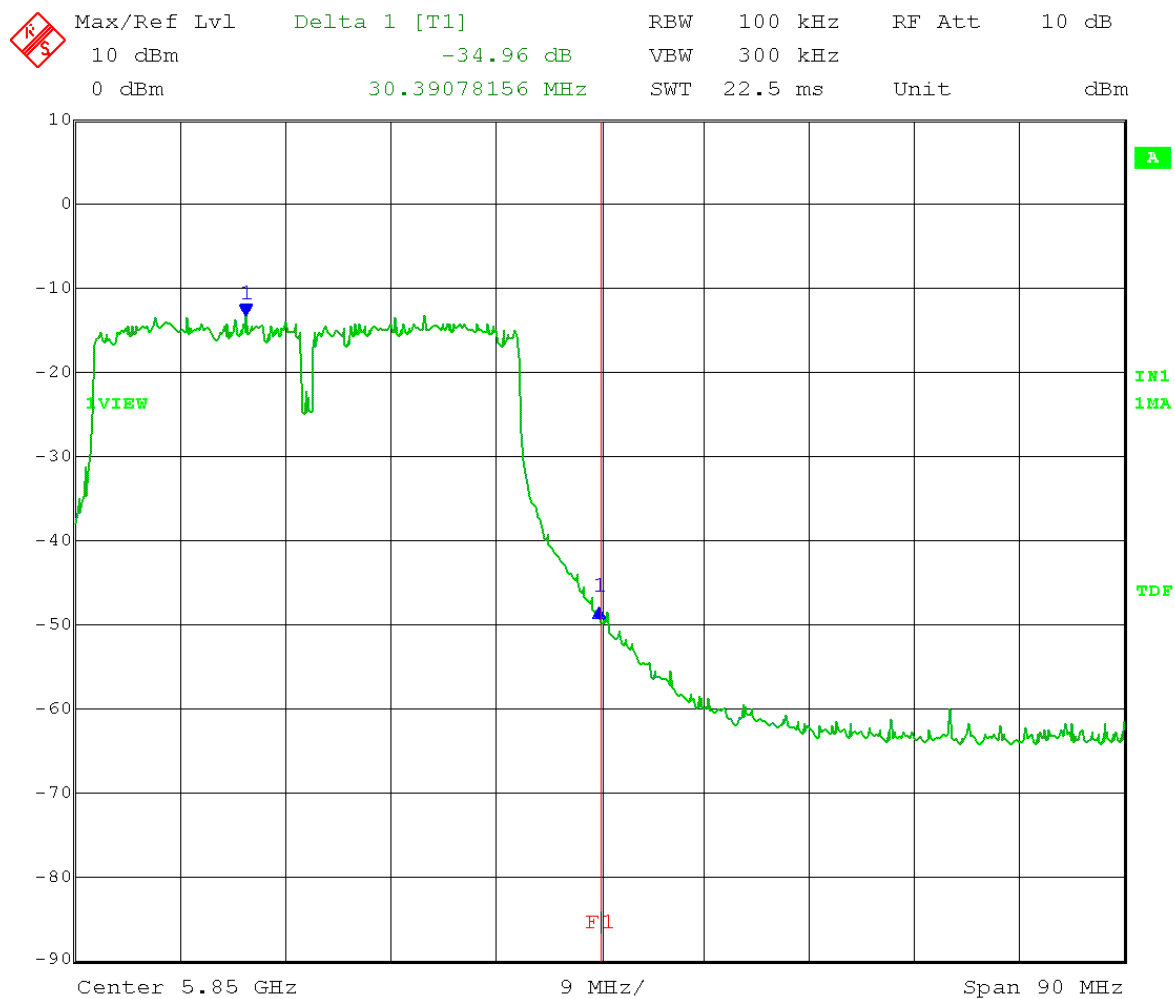
Point-to-Multipoint mode
 Output power setting: 1.0
 Band-edge = 5.725 GHz



Date: 25.MAR.2014 13:37:28

Test Date: 03-25-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Band-Edge Measurements – RF Conducted
Operator: Craig B
Comment: RBW = 100 kHz
VBW $\geq$ 300 kHz
Detector = Peak
Trace = Max Hold
High Channel Transmit = 5.825 GHz
40 MHz channel BW
Limit: > 30 dB below in-band emission

Point-to-Multipoint mode
Output power setting: 1.0
Band-edge = 5.850 GHz



Date: 25.MAR.2014 13:34:38



Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

166 South Carter, Genoa City, WI 53128

Appendix B – Measurement Data

B5.0 Maximum Unwanted Emission Levels into Restricted Frequency Bands - Radiated

Rule Section: Section 15.247(d)
Section 15.205

Test Procedure: FCC KDB 558074 D01 DTS Meas Guidance v03r01 – *Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247*

ANSI C63.10:2009 – Sections 6.5 and 6.6

12.0 Emissions in restricted frequency bands **12.1 Radiated emission measurements**

Description: This test applies to harmonics/spurs that fall in the restricted bands listed in Section 15.205.

Measurements were taken for OFDM MCS15 with 20 MHz and 40 MHz channel bandwidths at the low, middle and high channels of operation. EUT was set to transmit continuously with a 100% duty cycle. Radiated measurements were taken both vertically and horizontally with both output ports active. All other restricted band emissions were at least 20 dB under the limit.

Limit: FCC Part 15.209

Results: Passed

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish & 23 dBi Panel antennas
Date: 03-31-2014

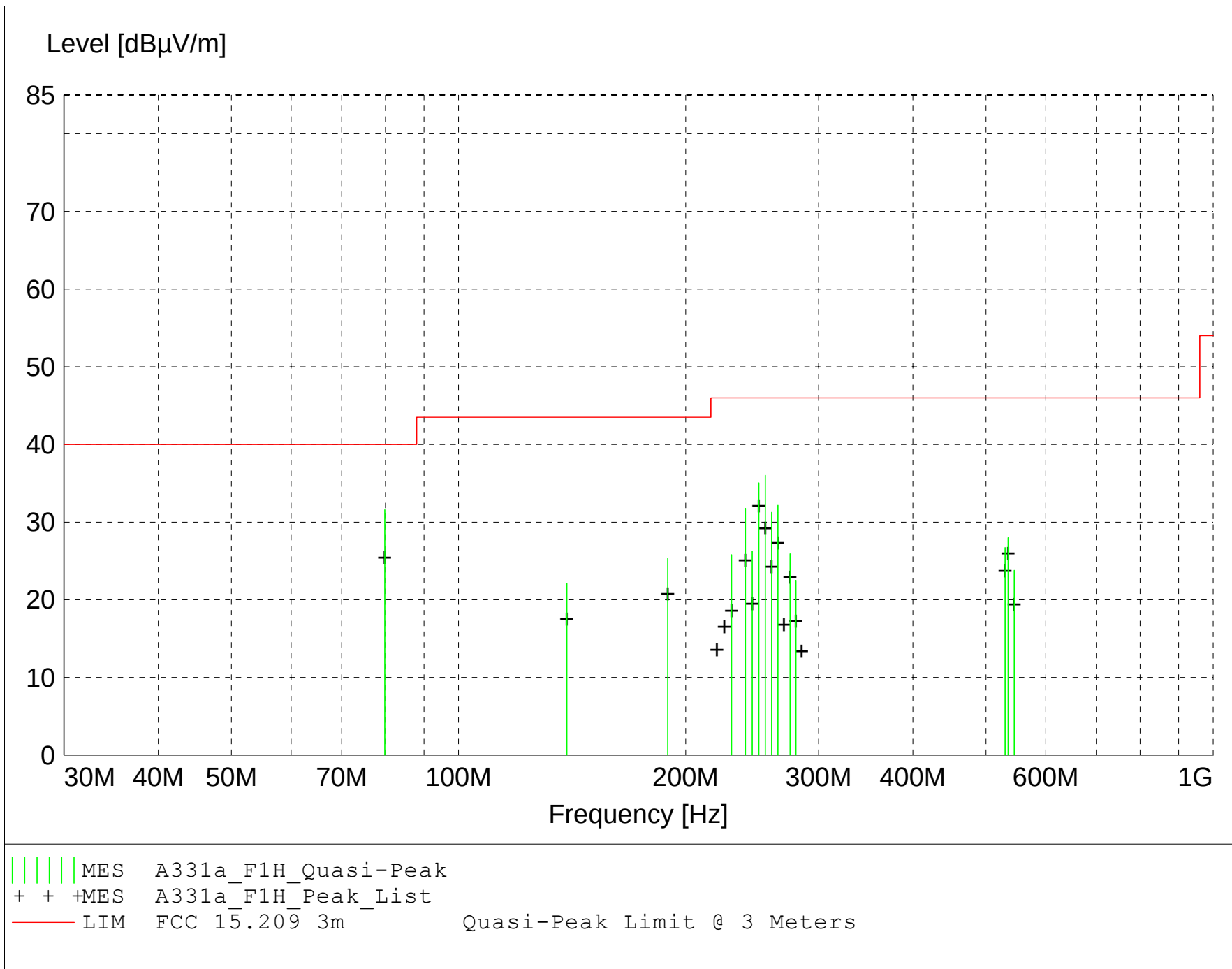
TEXT: "Horz 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Equations: $\text{Total Level (dB}\mu\text{V/m)} = \text{Level (dB}\mu\text{V)} + \text{System Loss (dB)} + \text{Antenna Factor (dB}\mu\text{V/m)}$
 $\text{Margin (dB)} = \text{Limit (dB}\mu\text{V/m)} - \text{Total Level (dB}\mu\text{V/m)}$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A331a_F1H_Final"

3/31/2014 11:23AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
79.850000	48.80	6.07	-23.3	31.6	40.0	8.4	2.70	90	QUASI-PEAK	None
254.970000	45.05	12.70	-21.7	36.0	46.0	10.0	3.20	170	QUASI-PEAK	None
249.980000	44.41	12.40	-21.8	35.1	46.0	10.9	1.20	315	QUASI-PEAK	None
264.970000	40.52	13.20	-21.6	32.2	46.0	13.8	2.50	160	QUASI-PEAK	None
239.980000	41.53	12.00	-21.7	31.8	46.0	14.2	3.00	270	QUASI-PEAK	None
259.970000	39.98	13.00	-21.7	31.3	46.0	14.7	2.60	170	QUASI-PEAK	None
534.970000	29.27	18.40	-19.7	28.0	46.0	18.0	1.00	260	QUASI-PEAK	None
189.325000	30.25	17.33	-22.3	25.3	43.5	18.2	3.20	225	QUASI-PEAK	None
529.970000	28.13	18.40	-19.8	26.7	46.0	19.3	1.00	270	QUASI-PEAK	None
244.970000	35.80	12.20	-21.7	26.3	46.0	19.7	3.00	270	QUASI-PEAK	None
274.970000	34.09	13.40	-21.6	25.9	46.0	20.1	2.00	160	QUASI-PEAK	None
229.970000	36.28	11.40	-21.9	25.8	46.0	20.2	3.10	90	QUASI-PEAK	None
139.165000	32.55	12.28	-22.7	22.1	43.5	21.4	1.90	270	QUASI-PEAK	None
544.970000	25.34	18.20	-19.8	23.8	46.0	22.2	1.10	265	QUASI-PEAK	None
279.970000	30.54	13.50	-21.5	22.5	46.0	23.5	2.00	170	QUASI-PEAK	None

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish & 23 dBi Panel antennas
Date: 03-31-2014

TEXT: "Vert 3 meters"

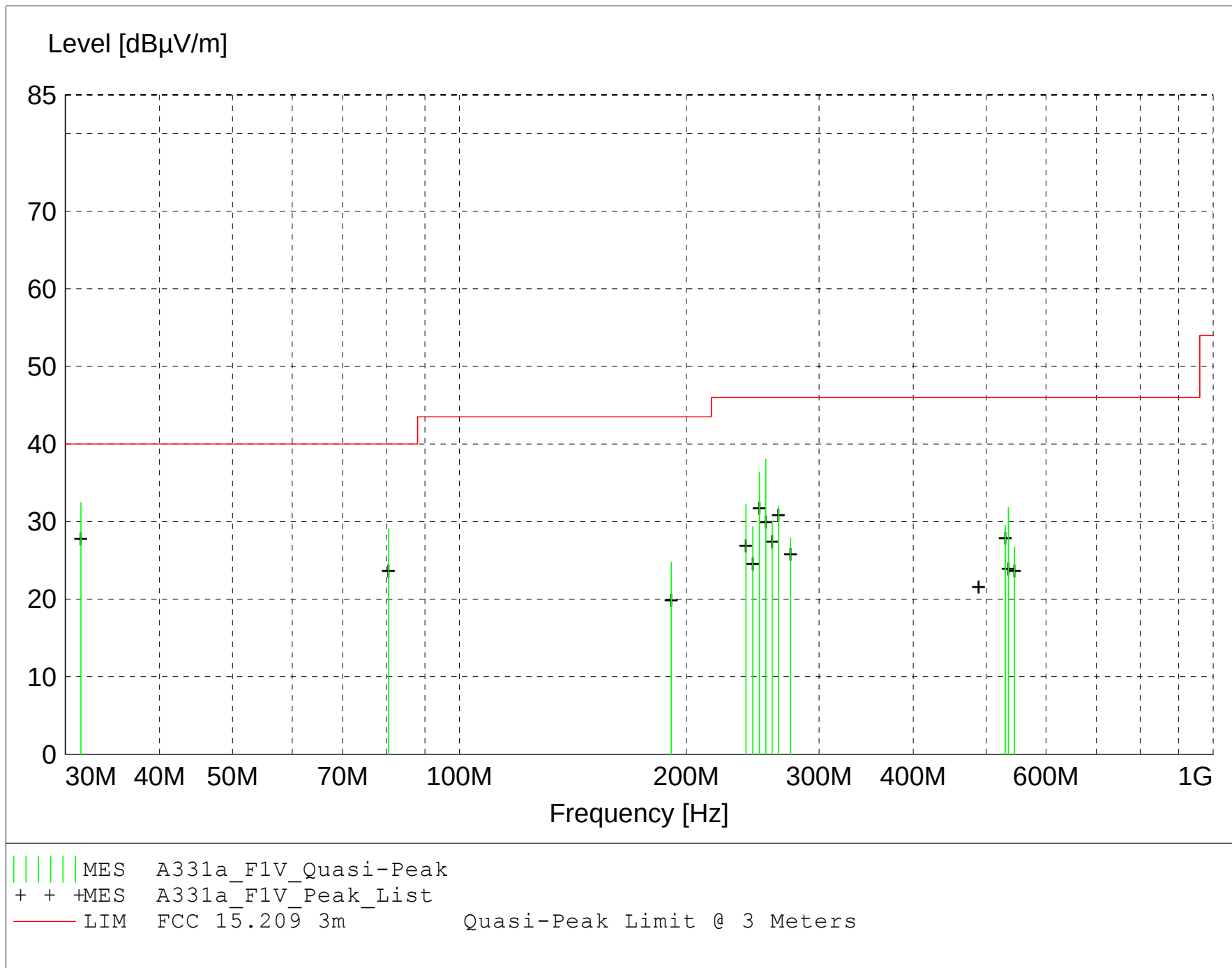
Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{array}{rclclcl} \text{Total Level (dB}\mu\text{V/m)} & = & \text{Level (dB}\mu\text{V)} & + & \text{System Loss (dB)} & + & \text{Antenna Factor (dB}\mu\text{V/m)} \\ 24.6 & & = 35.51 & & + (-22.1) & & + 11.20 \end{array}$$

$$\begin{array}{rclcl} \text{Margin (dB)} & = & \text{Limit (dB}\mu\text{V/m)} & - & \text{Total Level (dB}\mu\text{V/m)} \\ 15.4 & = & 40 & - & 24.6 \end{array}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
 | Final maximized level using Quasi-Peak detector
 X Final maximized level using Average detector
 # Final maximized level using Peak detector



MEASUREMENT RESULT: "A331a_F1V_Final"

3/31/2014 11:12AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
31.470000	45.34	11.25	-24.1	32.4	40.0	7.6	1.00	350	QUASI-PEAK	None
254.980000	47.06	12.70	-21.7	38.0	46.0	8.0	1.50	180	QUASI-PEAK	None
249.980000	45.74	12.40	-21.8	36.4	46.0	9.6	1.60	340	QUASI-PEAK	None
80.525000	46.15	6.15	-23.3	29.0	40.0	11.0	1.00	315	QUASI-PEAK	None
239.970000	41.97	12.00	-21.7	32.2	46.0	13.8	1.60	330	QUASI-PEAK	None
264.970000	40.39	13.20	-21.6	32.0	46.0	14.0	1.30	180	QUASI-PEAK	None
534.970000	33.09	18.40	-19.7	31.8	46.0	14.2	1.30	225	QUASI-PEAK	None
259.980000	38.79	13.00	-21.7	30.1	46.0	15.9	1.50	180	QUASI-PEAK	None
529.970000	30.92	18.40	-19.8	29.5	46.0	16.5	2.00	225	QUASI-PEAK	None
244.970000	38.87	12.20	-21.7	29.3	46.0	16.7	1.60	340	QUASI-PEAK	None
274.970000	36.05	13.40	-21.6	27.9	46.0	18.1	1.30	180	QUASI-PEAK	None
191.025000	29.72	17.30	-22.2	24.8	43.5	18.7	1.00	170	QUASI-PEAK	None
544.970000	28.24	18.20	-19.8	26.7	46.0	19.3	1.90	225	QUASI-PEAK	None

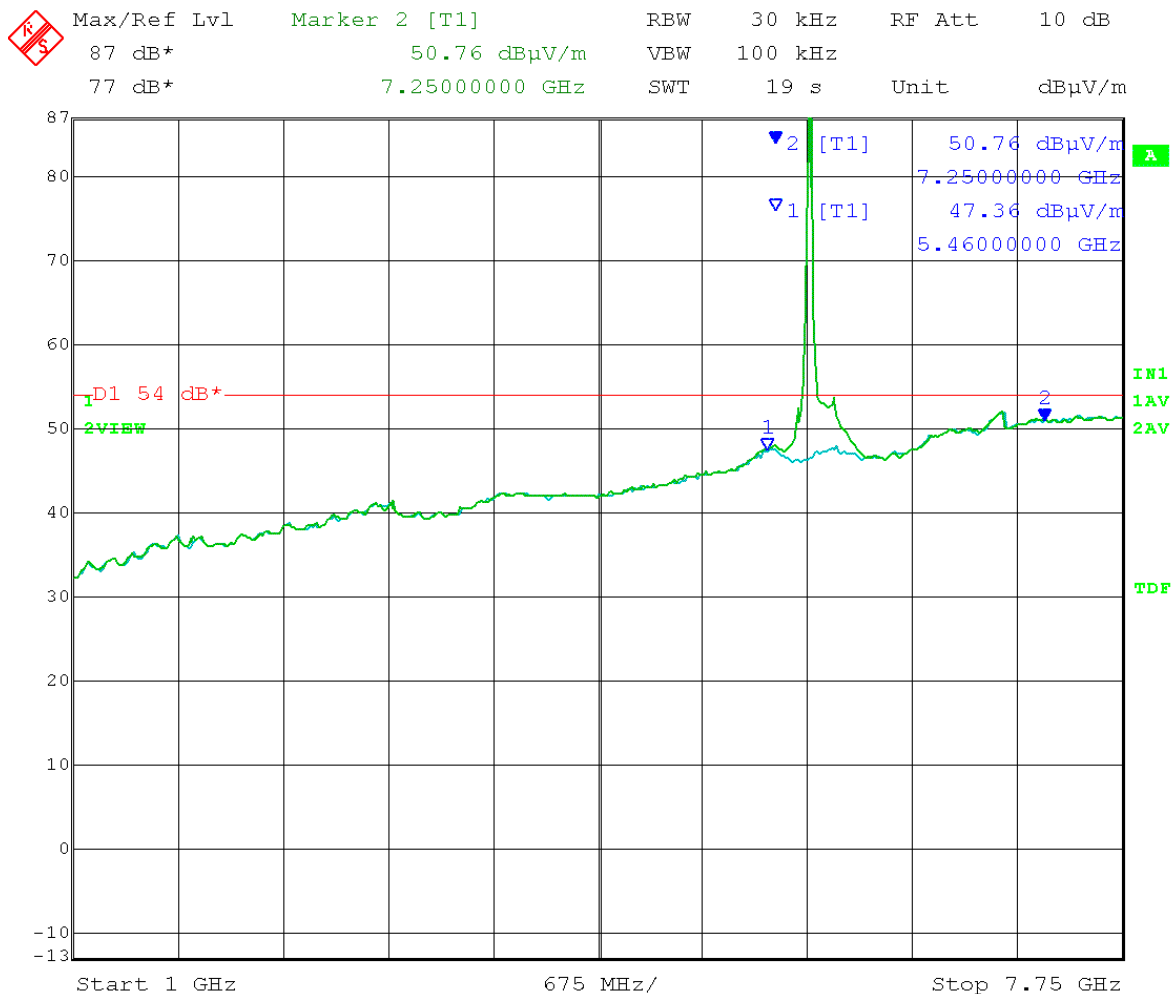
Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.740 GHz Point-to-Point mode
20 MHz channel BW Output power setting: 28.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
Polarization = Horizontal



Date: 27.MAR.2014 09:53:48

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

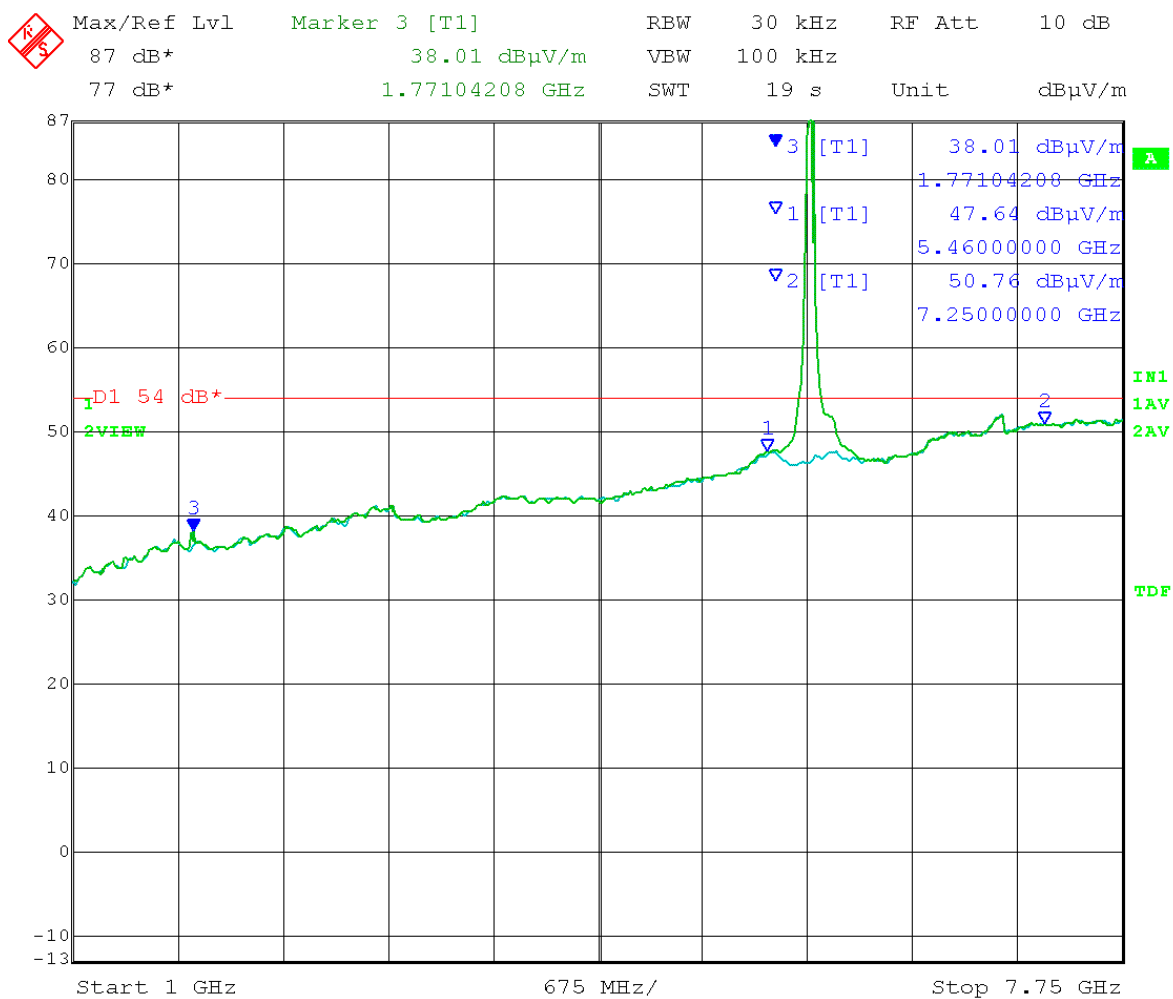
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 12:50:32

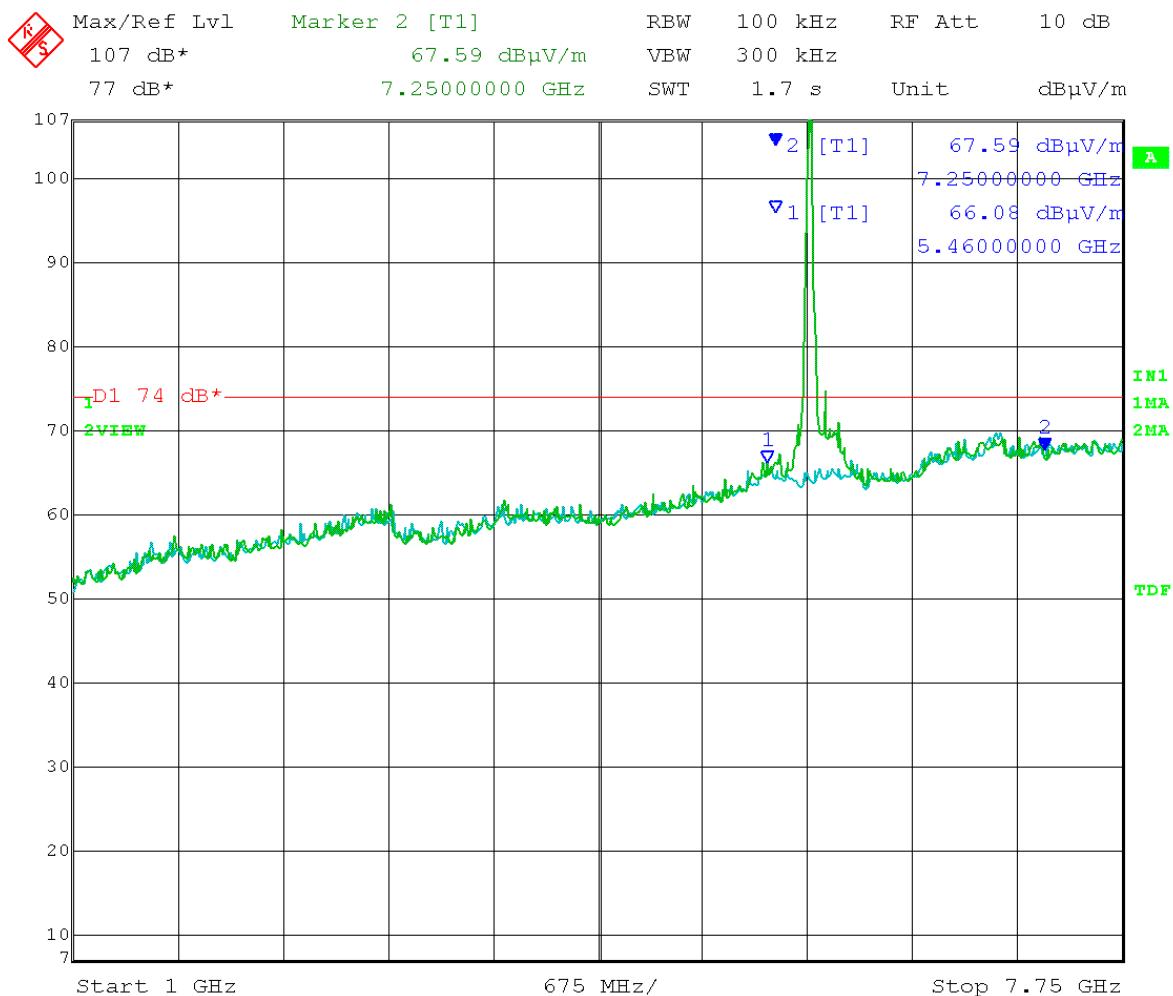
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



Date: 27.MAR.2014 10:26:31

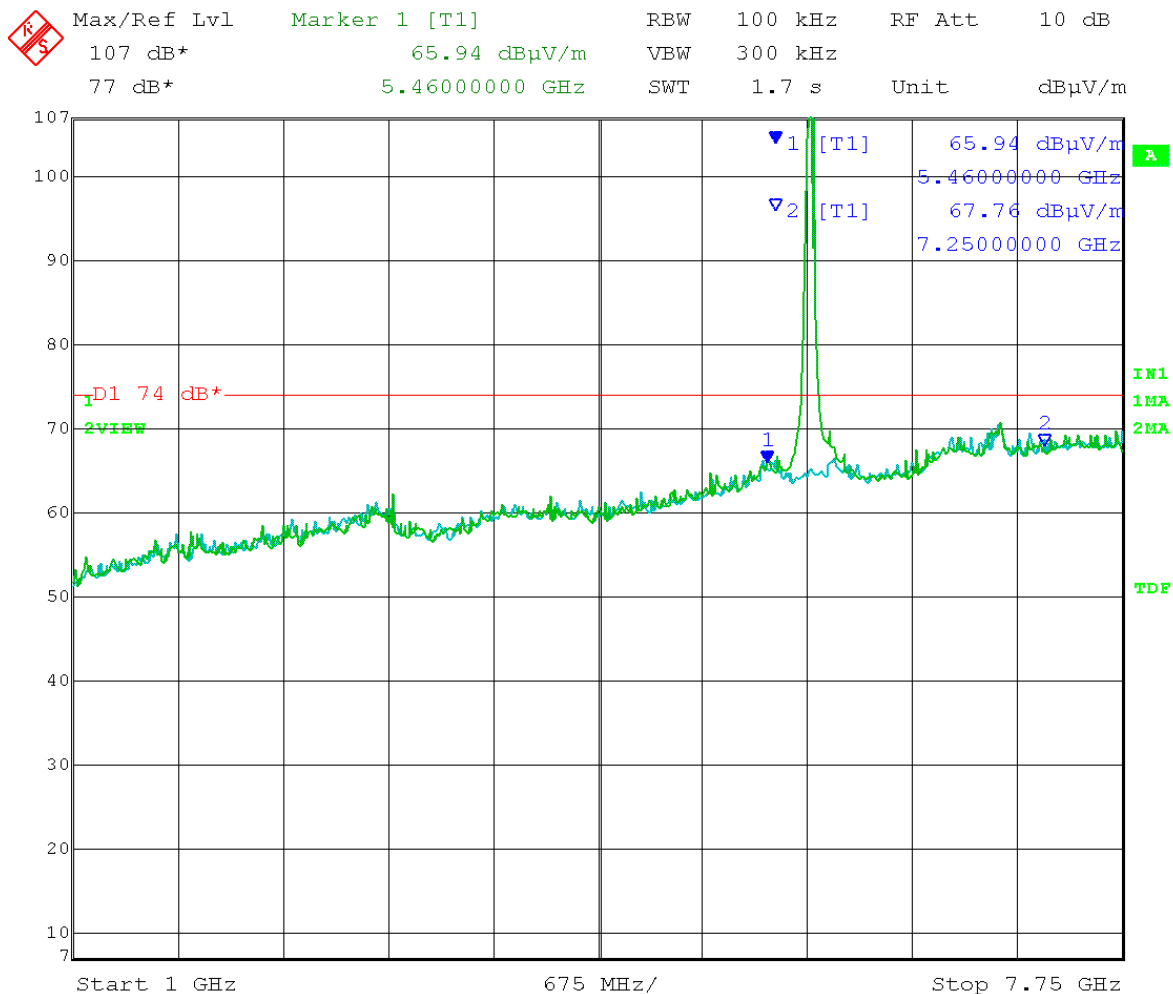
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:09:42

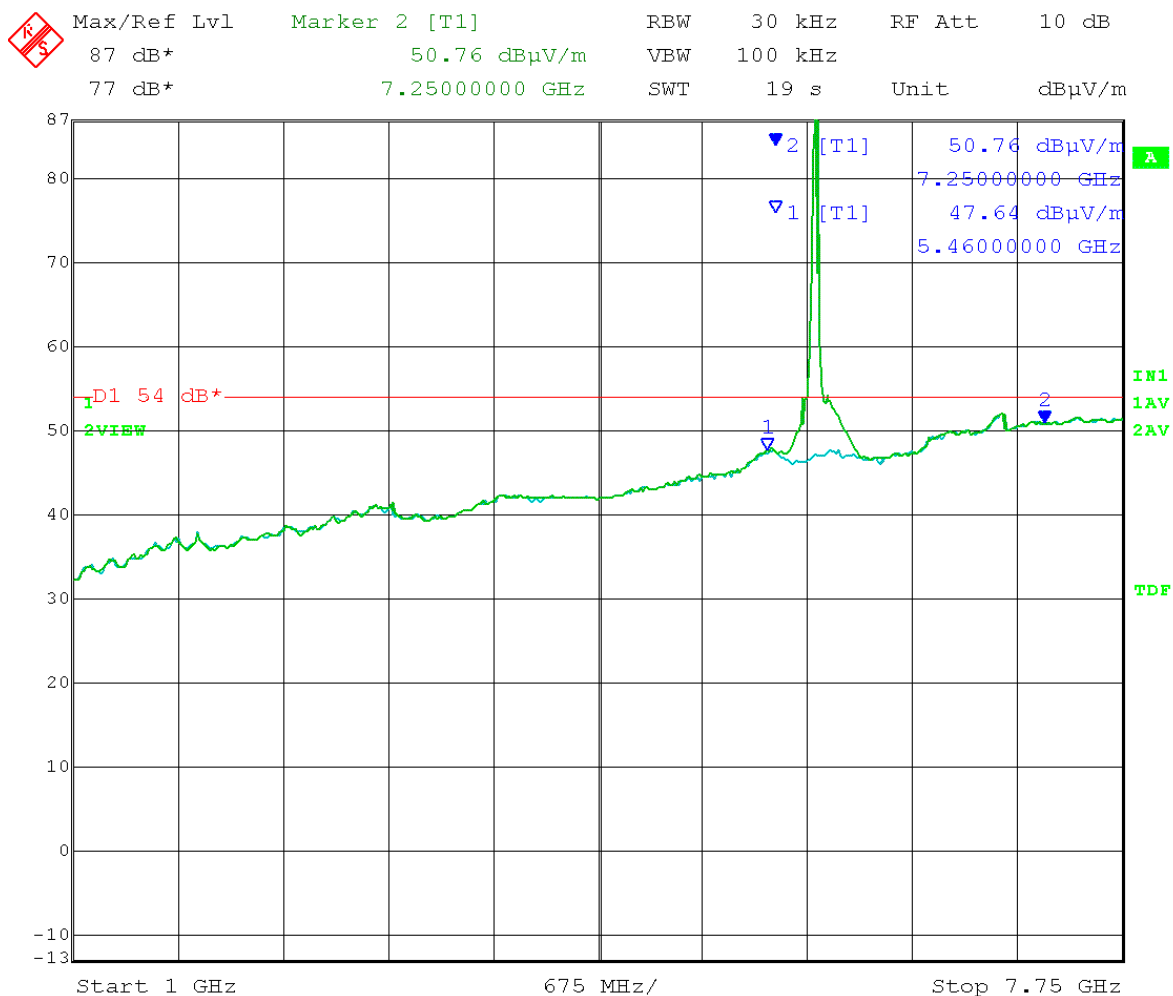
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 09:56:27

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

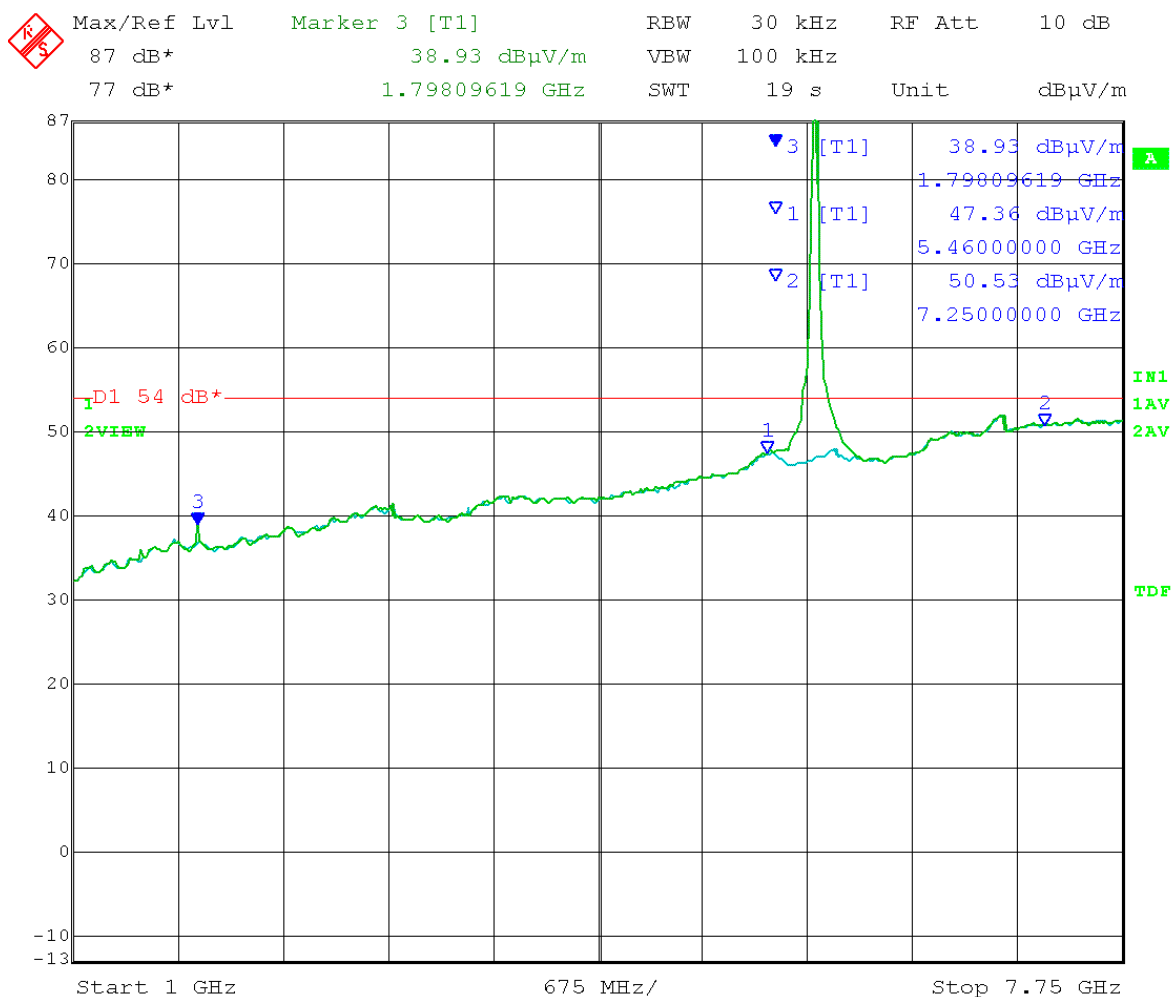
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 12:48:42

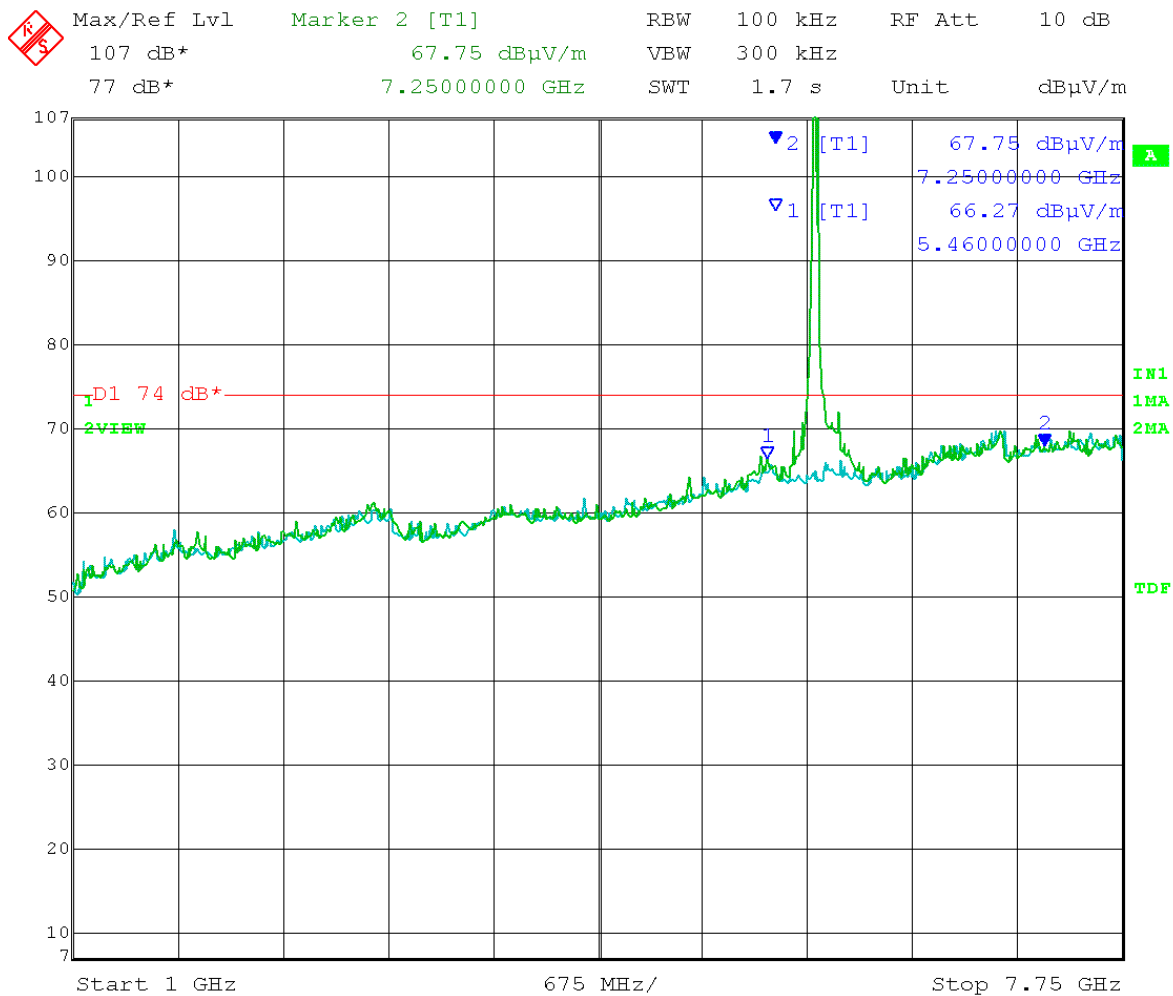
Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: Mid Channel Transmit = 5.775 GHz Point-to-Point mode
20 MHz channel BW Output power setting: 28.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Horizontal



Date: 27.MAR.2014 10:28:17

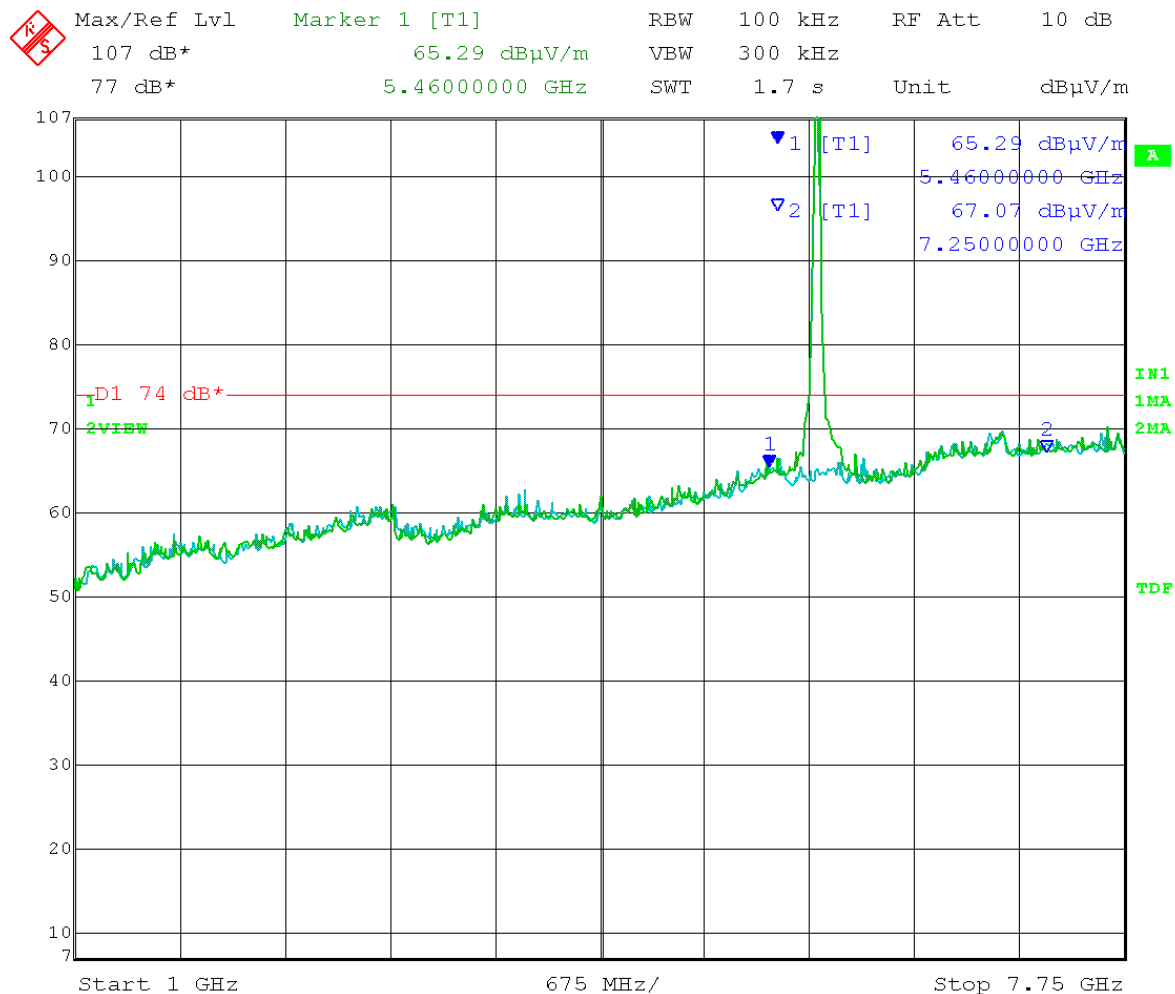
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:12:23

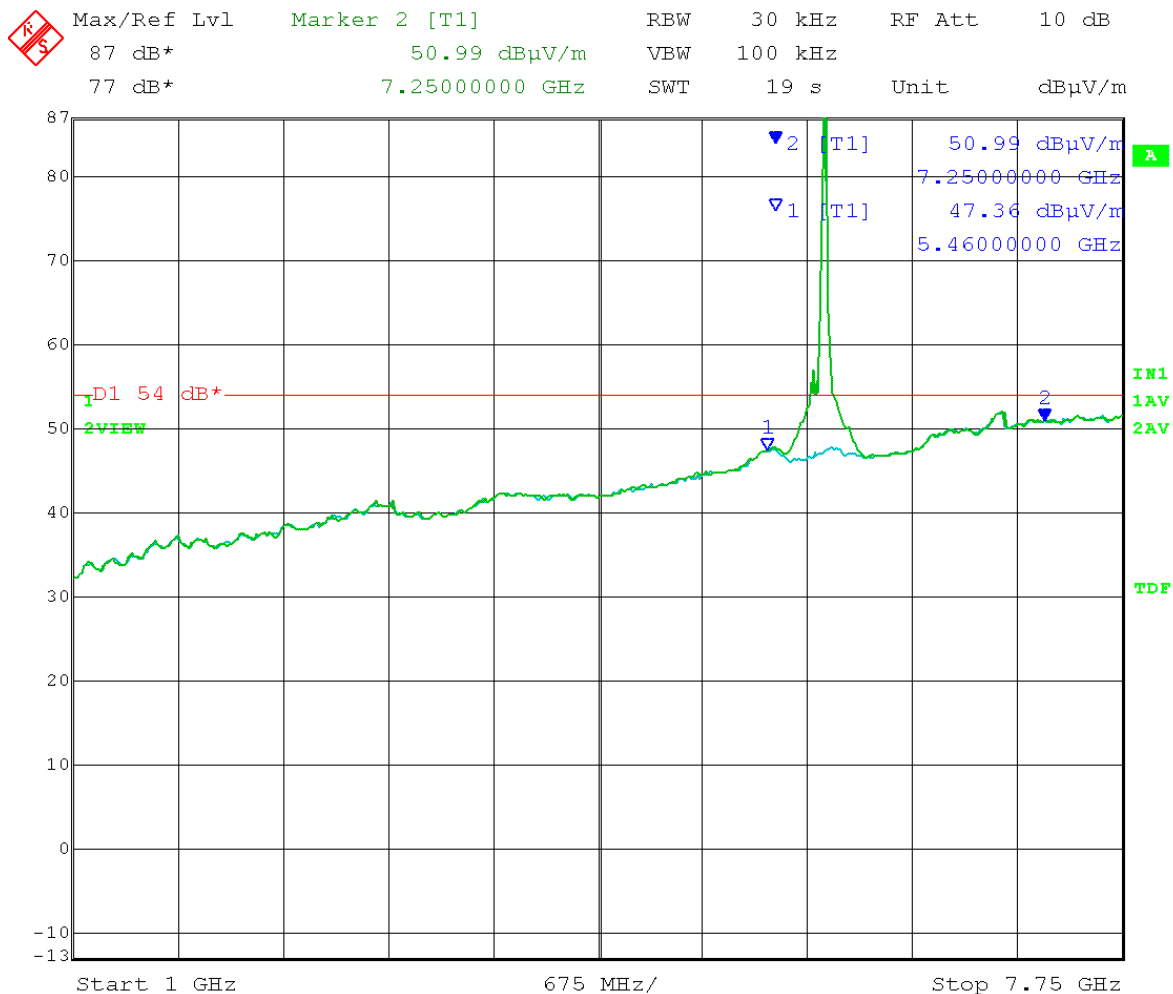
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 09:58:57

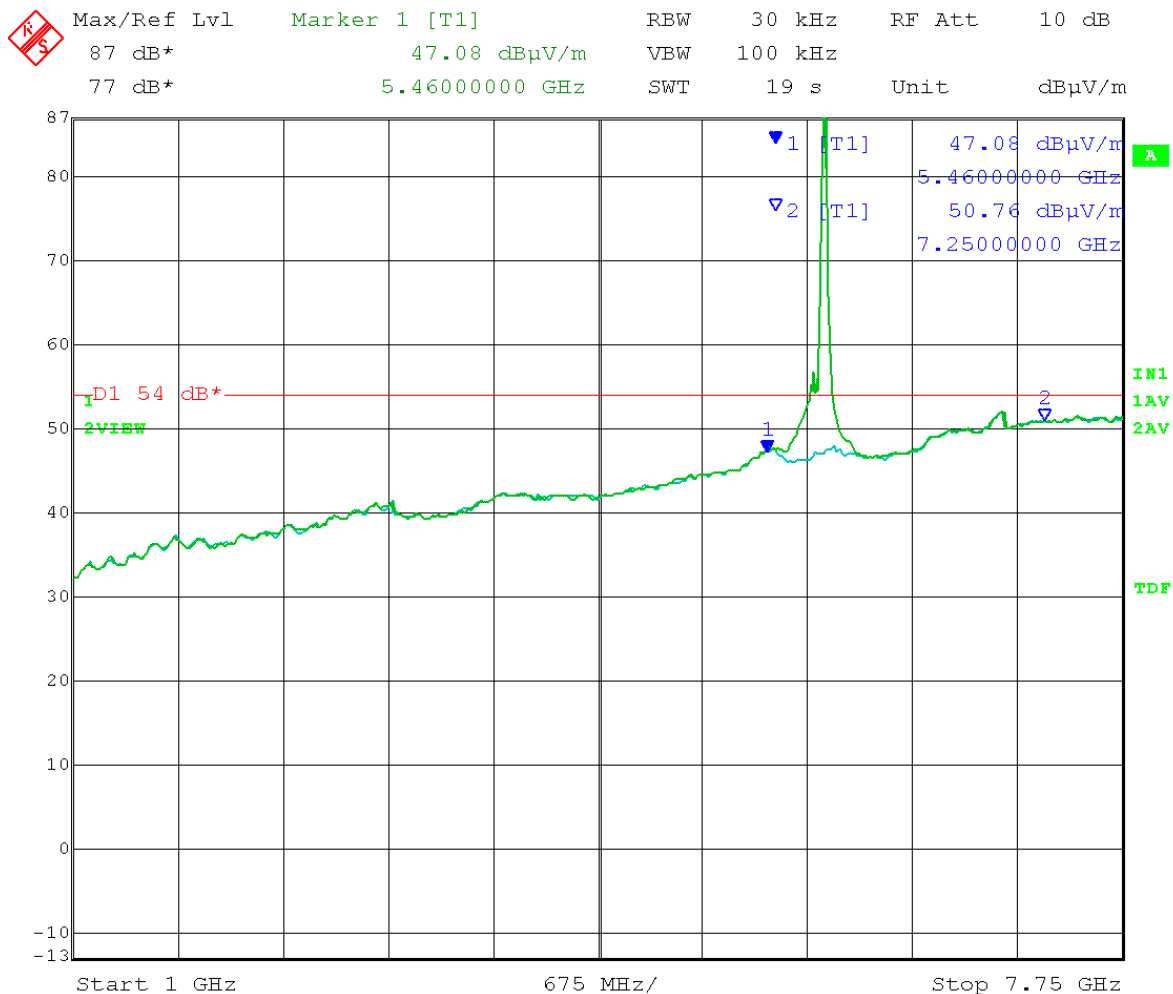
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Vertical



Date: 27.MAR.2014 12:53:32

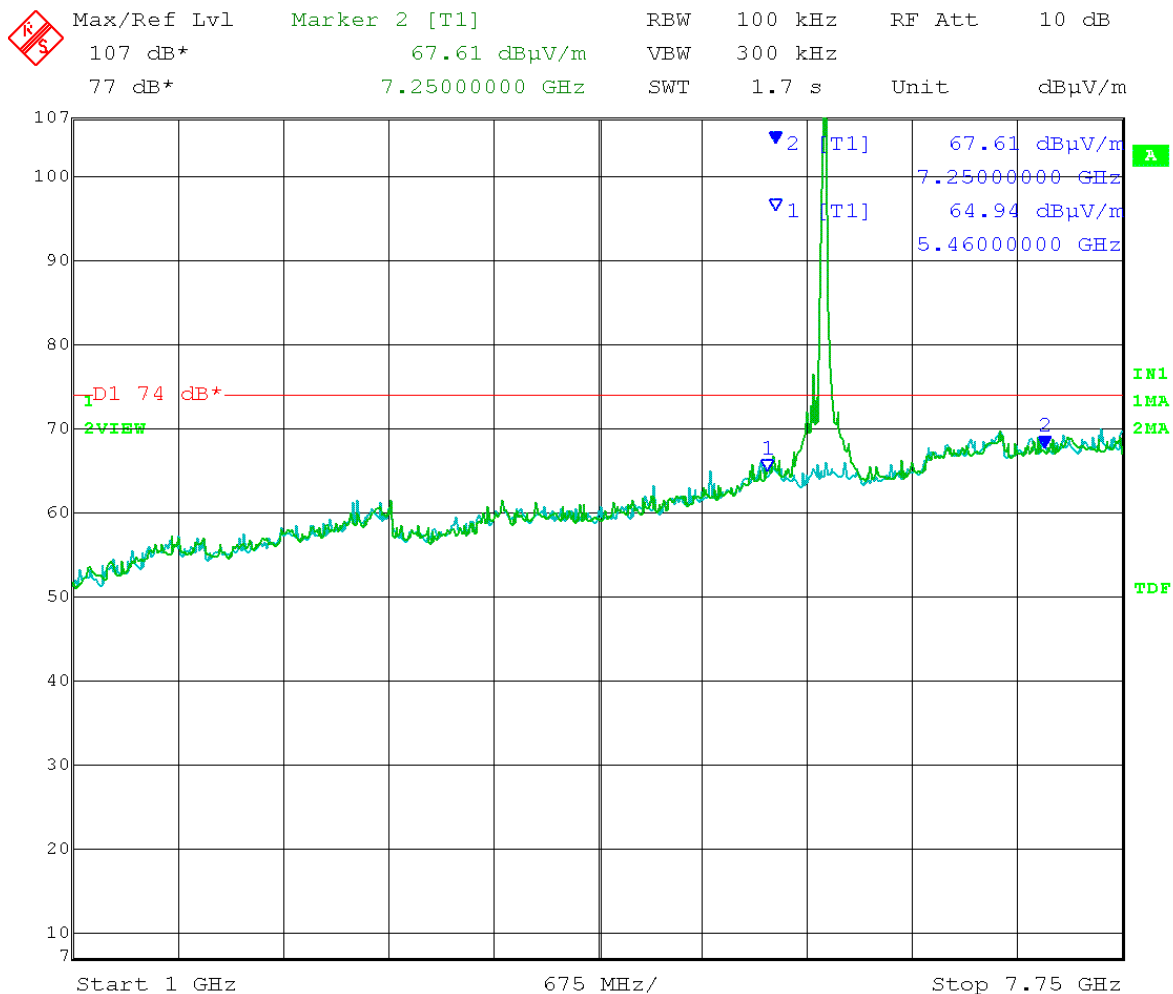
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



Date: 27.MAR.2014 10:19:59

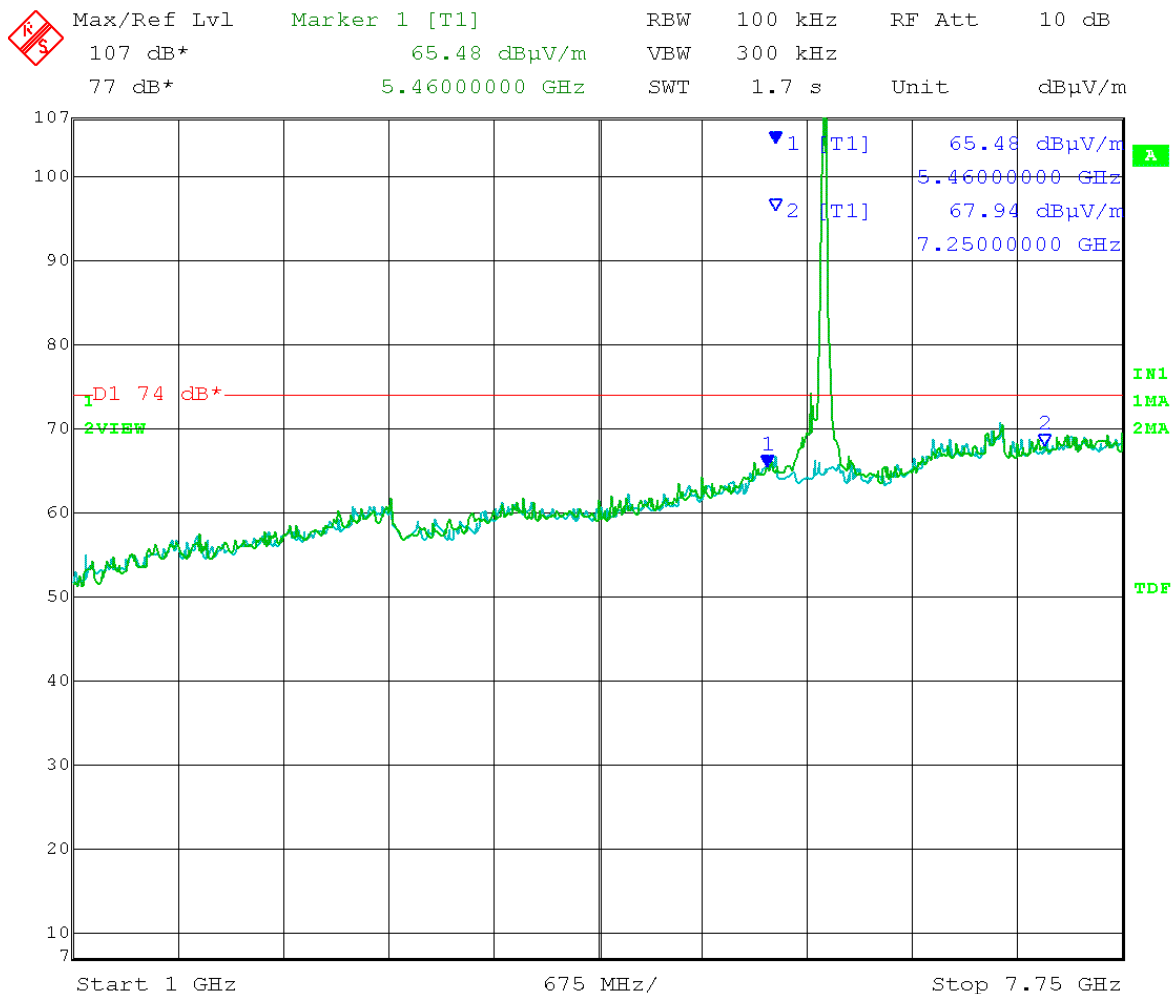
Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
20 MHz channel BW Output power setting: 28.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Vertical



Date: 27.MAR.2014 13:07:43

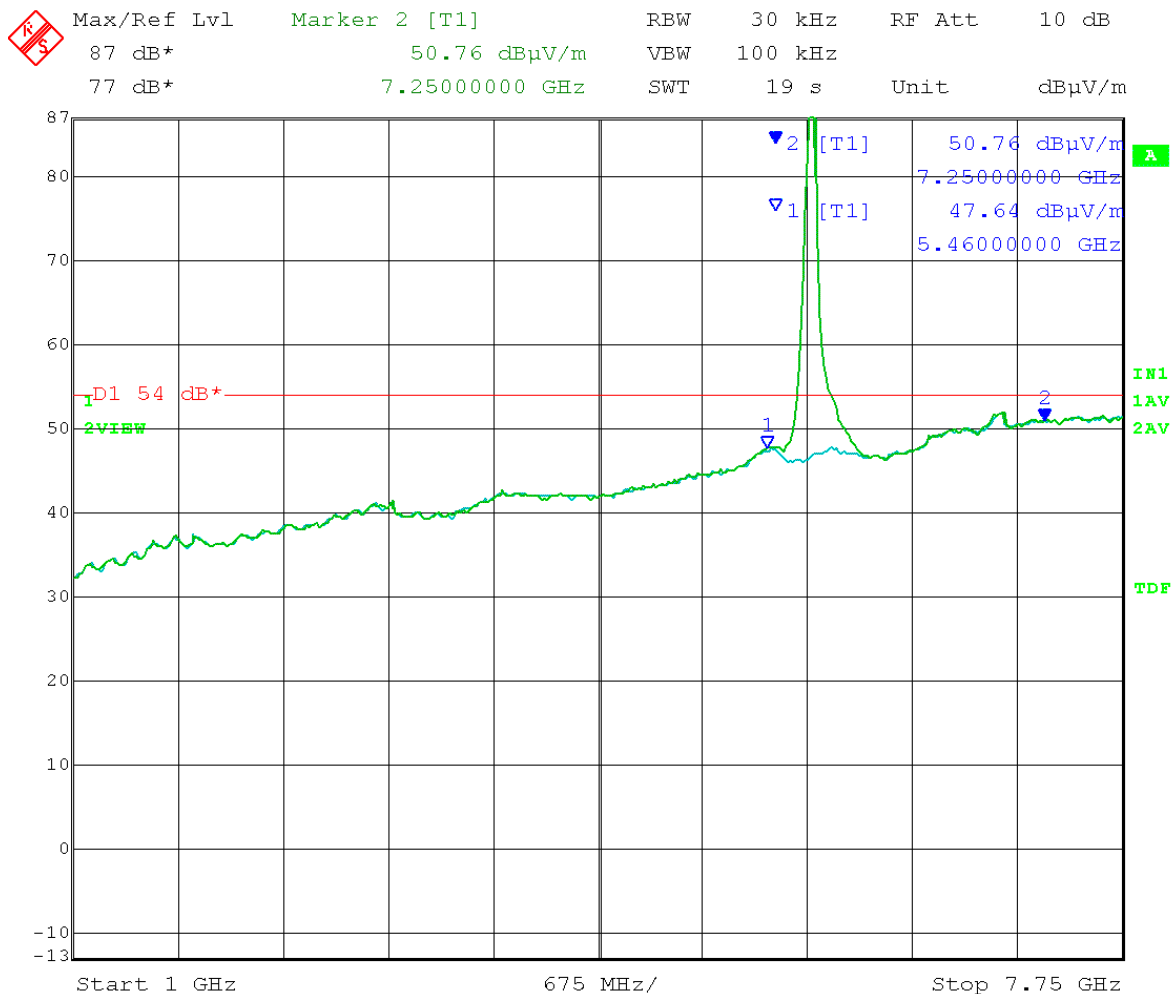
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 10:04:00

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

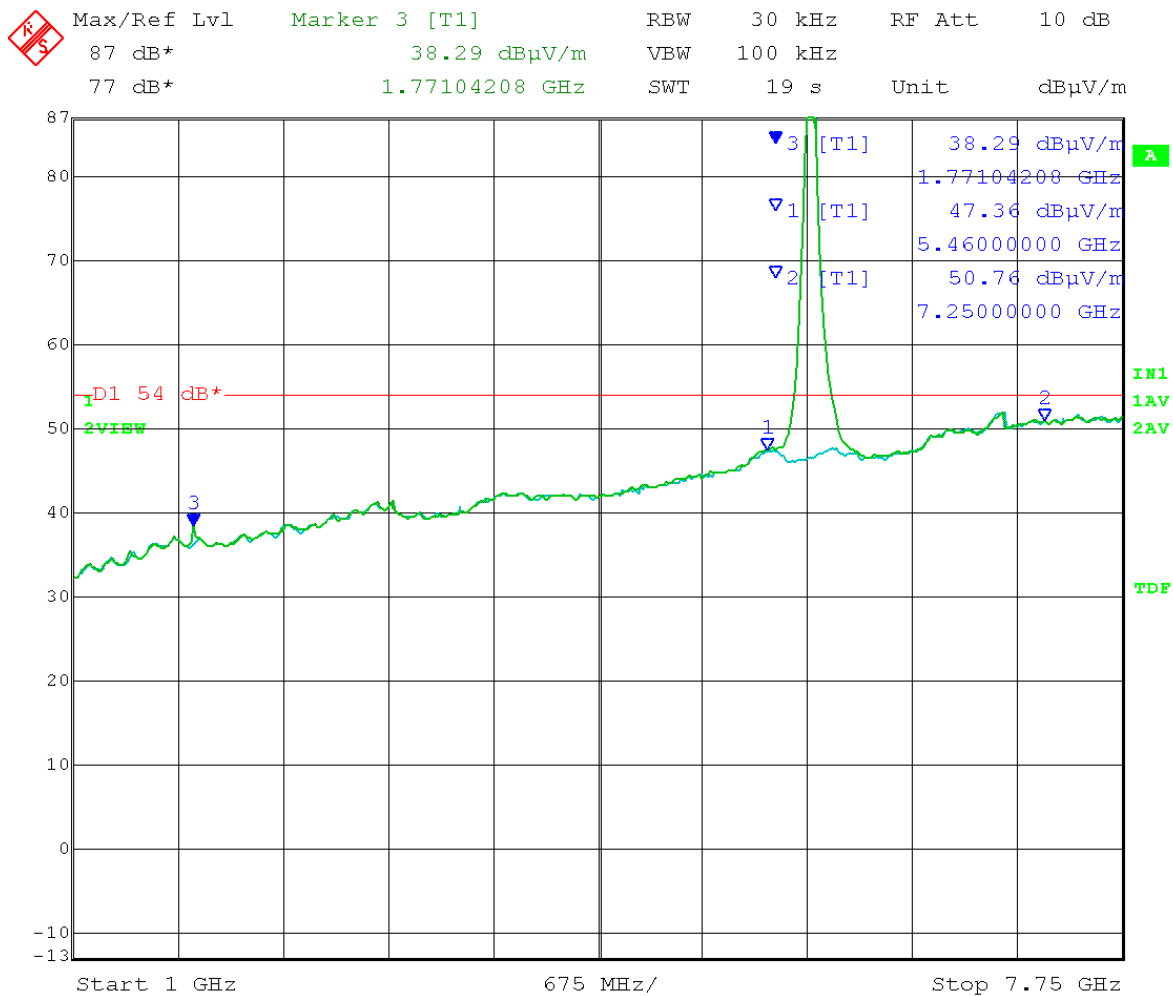
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 12:57:25

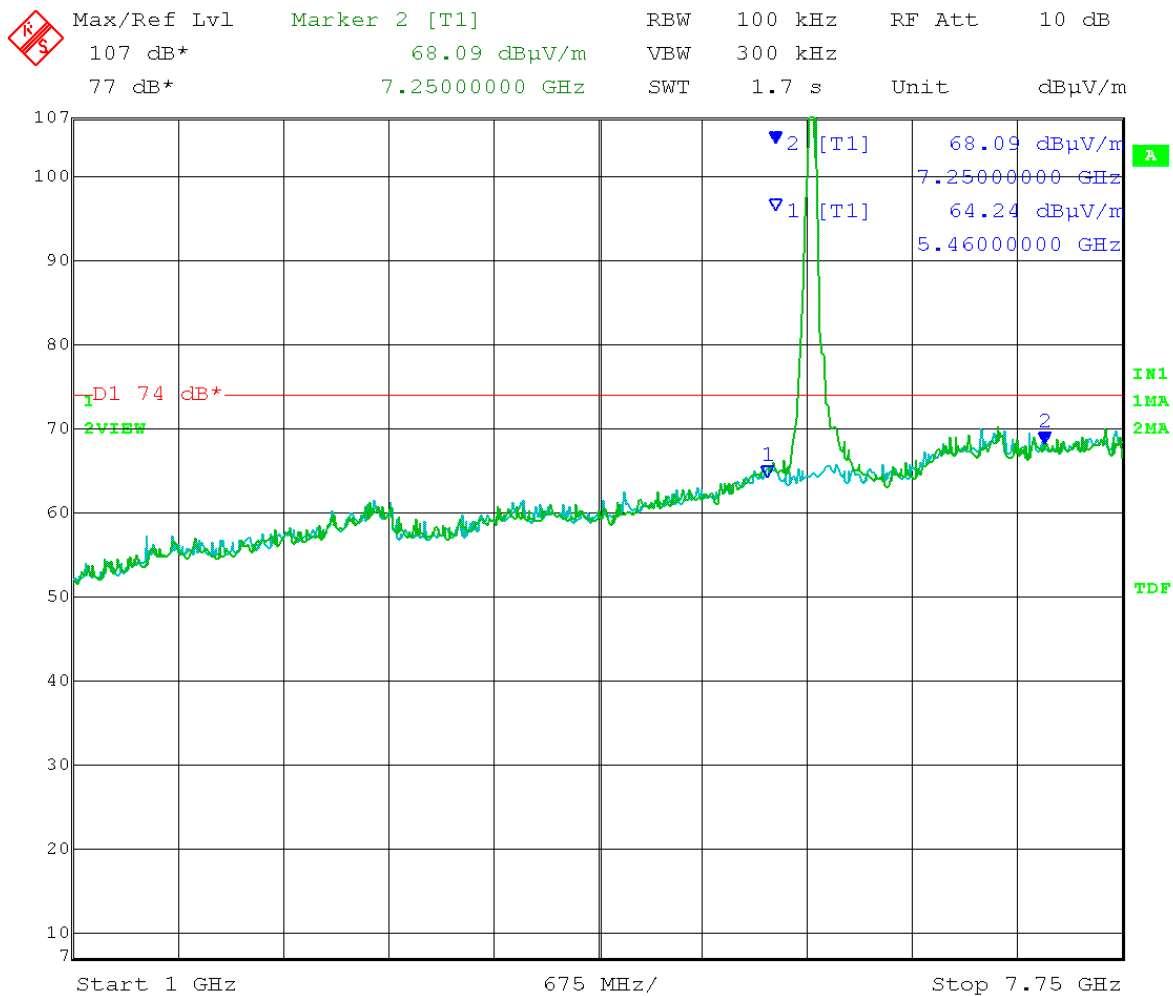
Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.750 GHz Point-to-Point mode
40 MHz channel BW Output power setting: 28.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Horizontal



Date: 27.MAR.2014 10:31:52

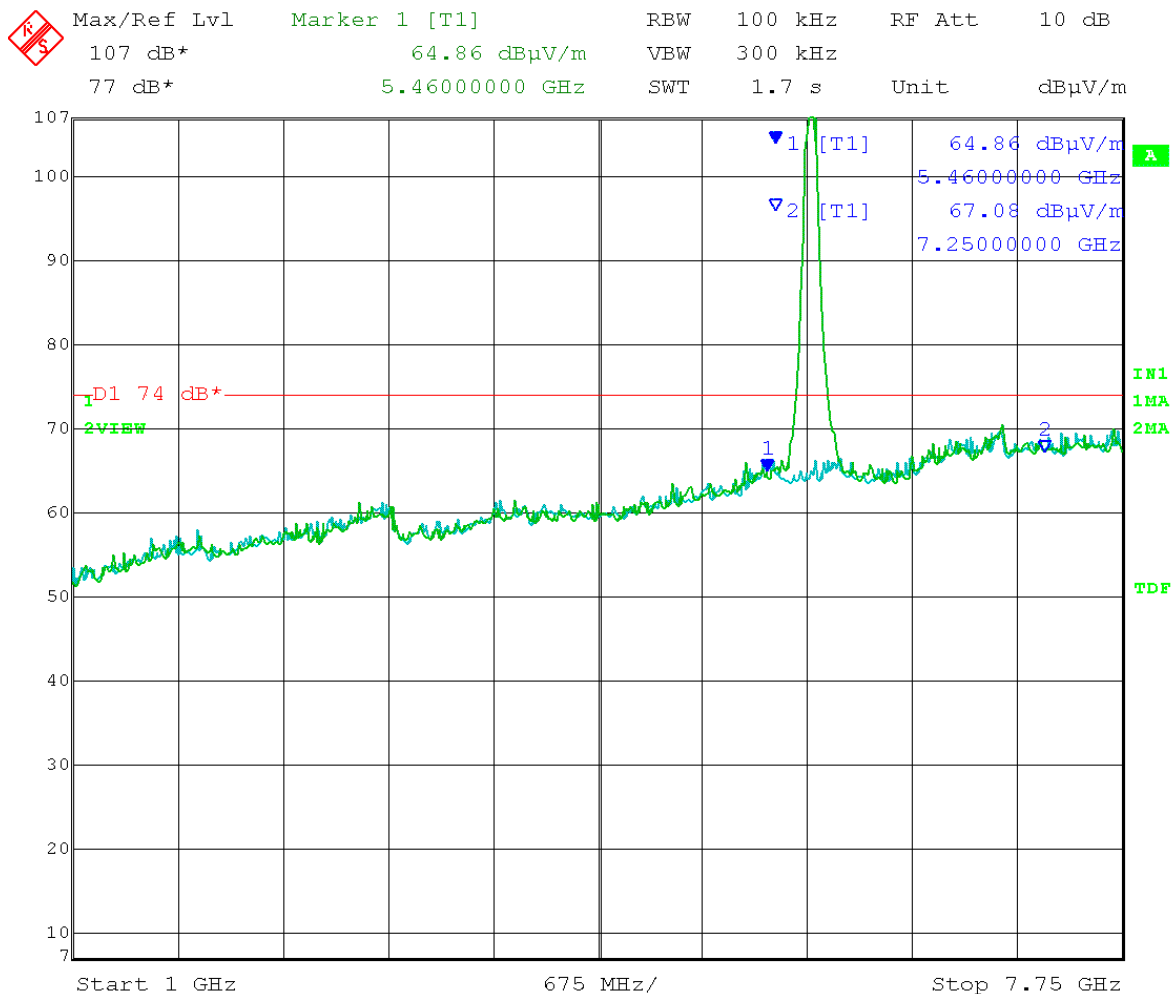
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:03:51

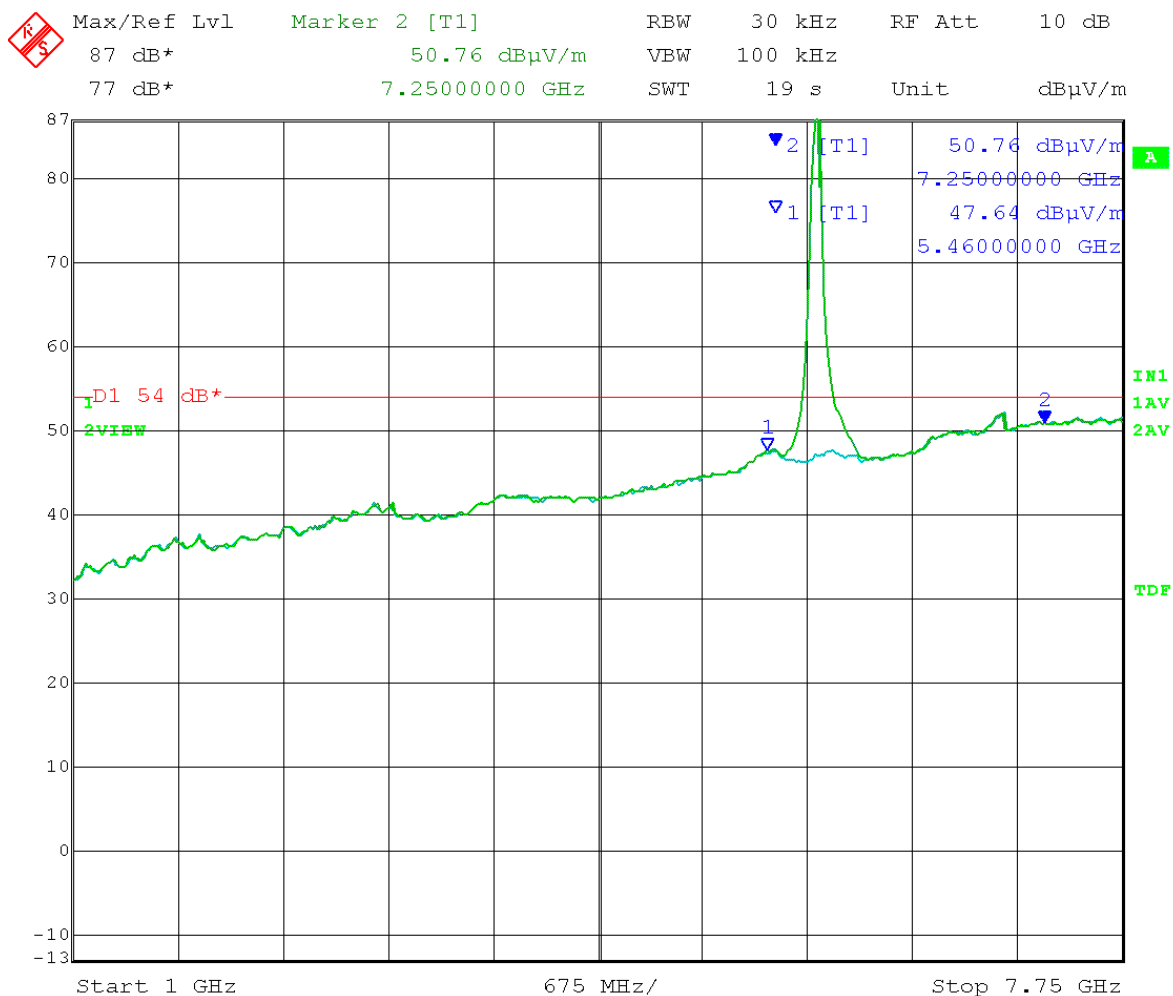
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 10:07:06

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

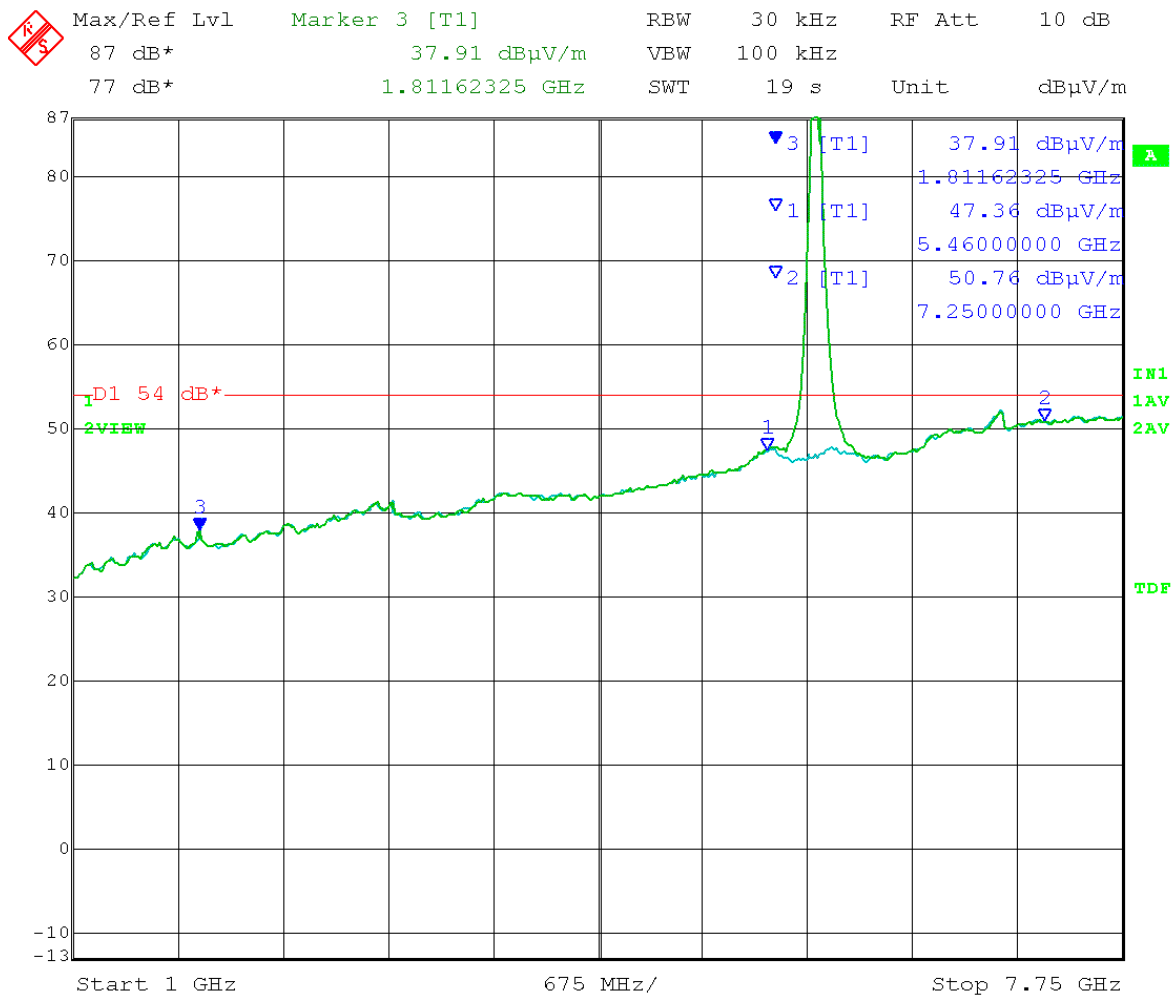
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 12:59:24

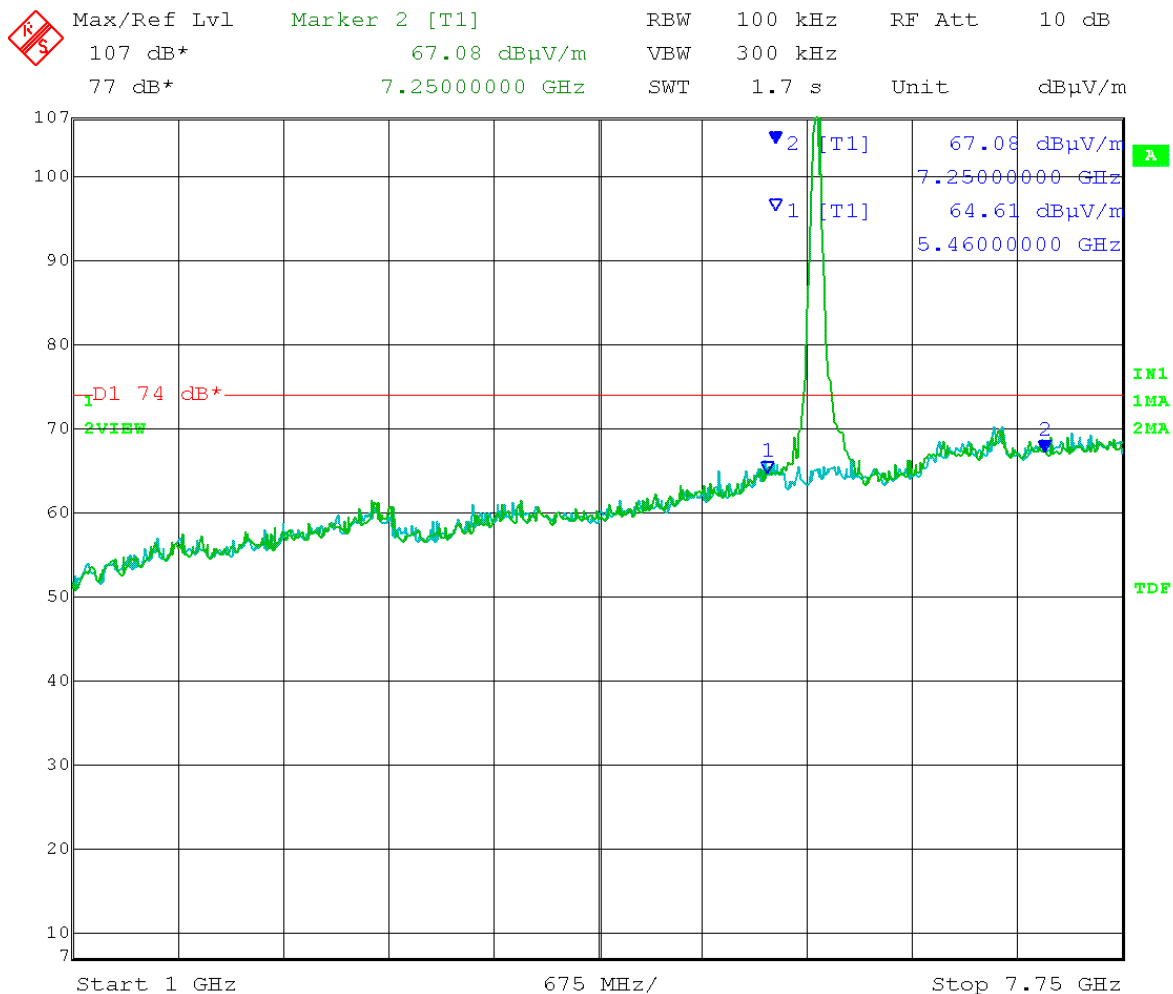
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



Date: 27.MAR.2014 10:33:24

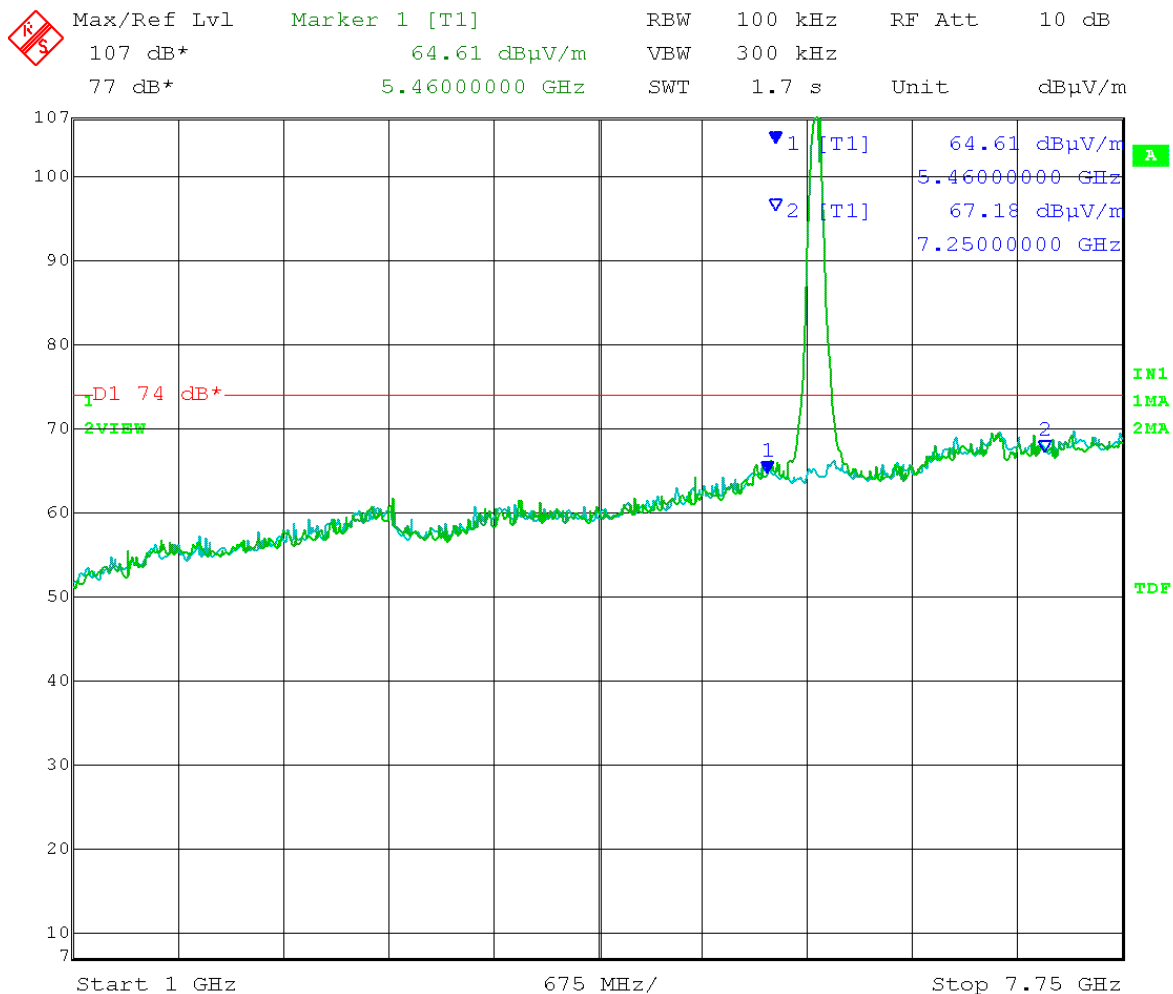
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:02:09

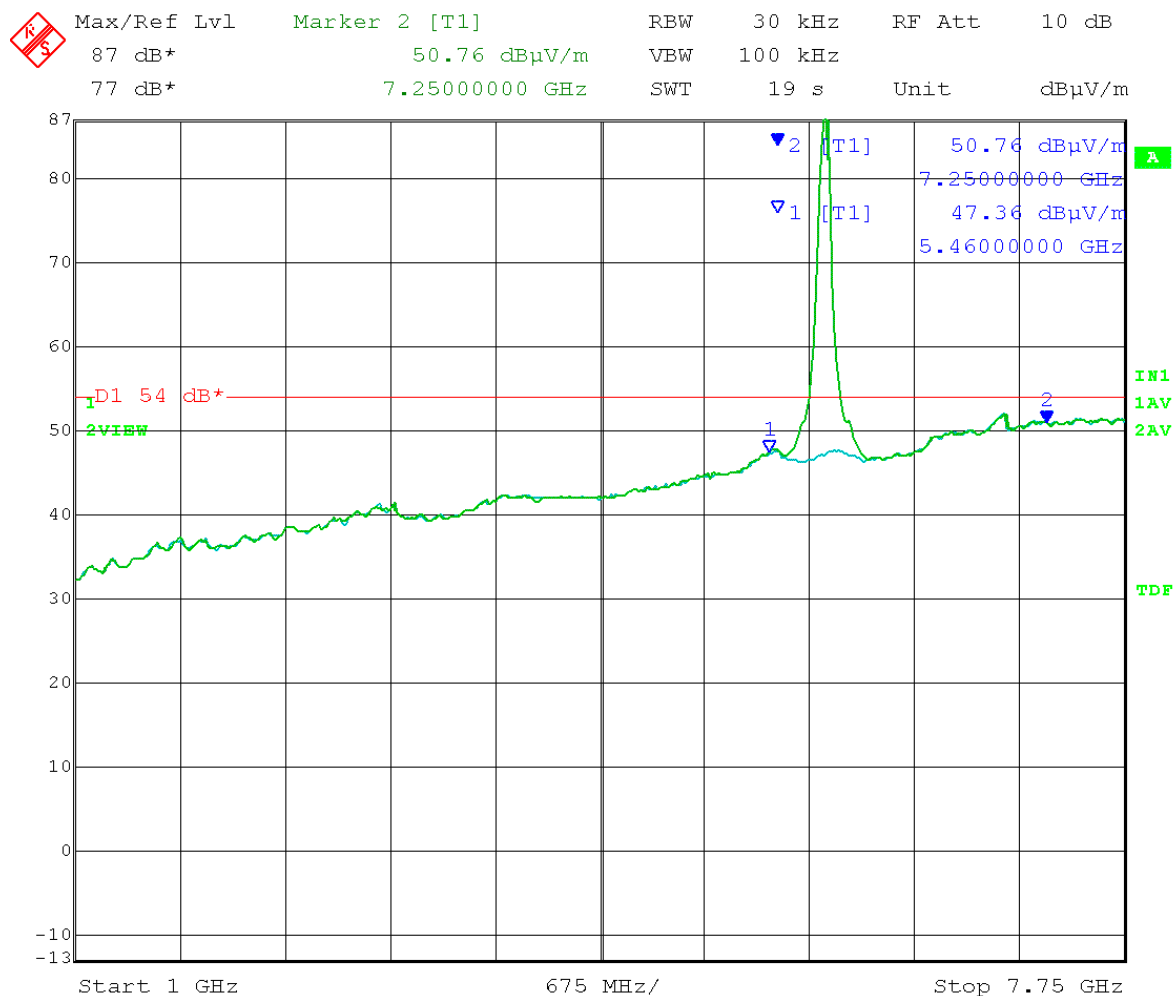
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 10:01:40

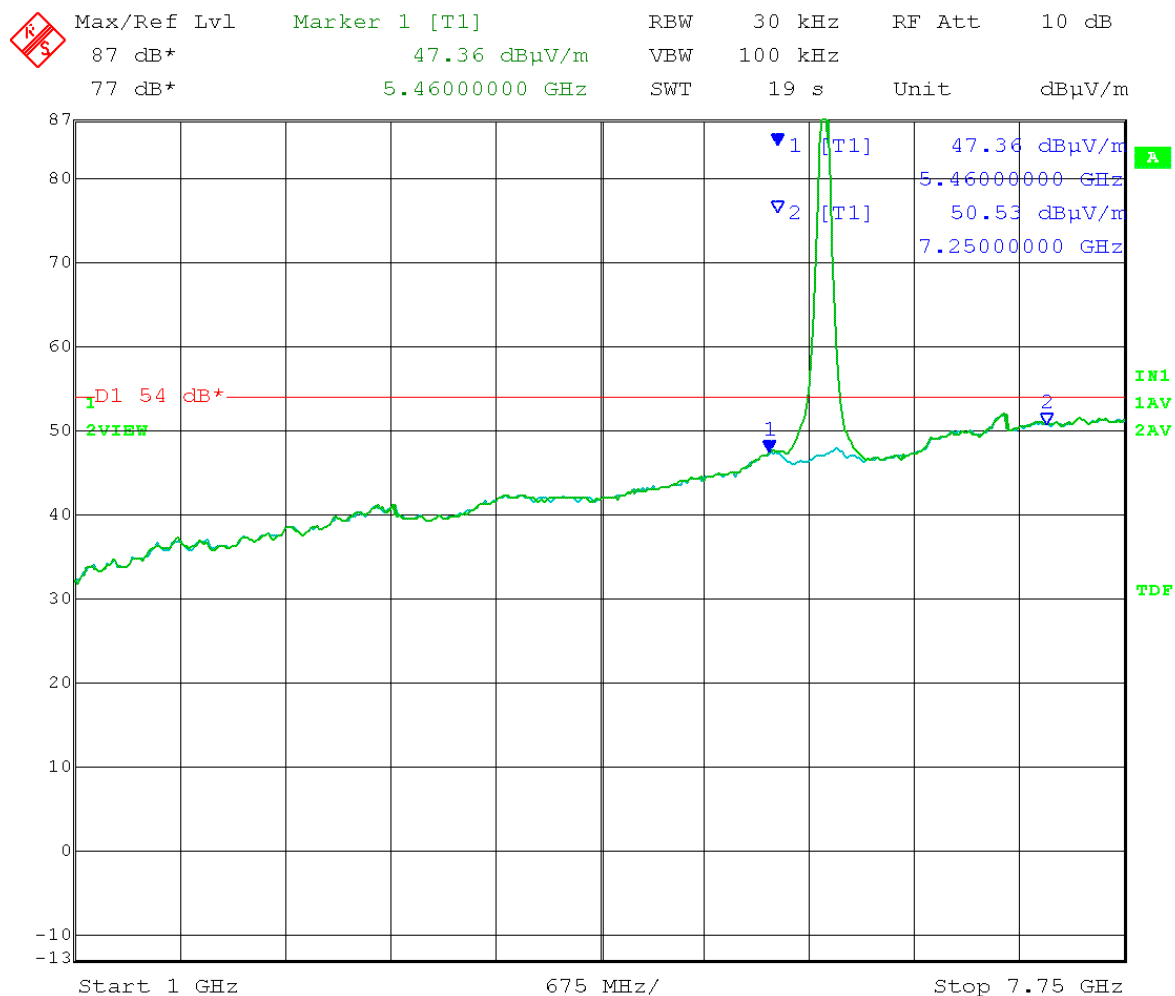
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Vertical



Date: 27.MAR.2014 12:55:28

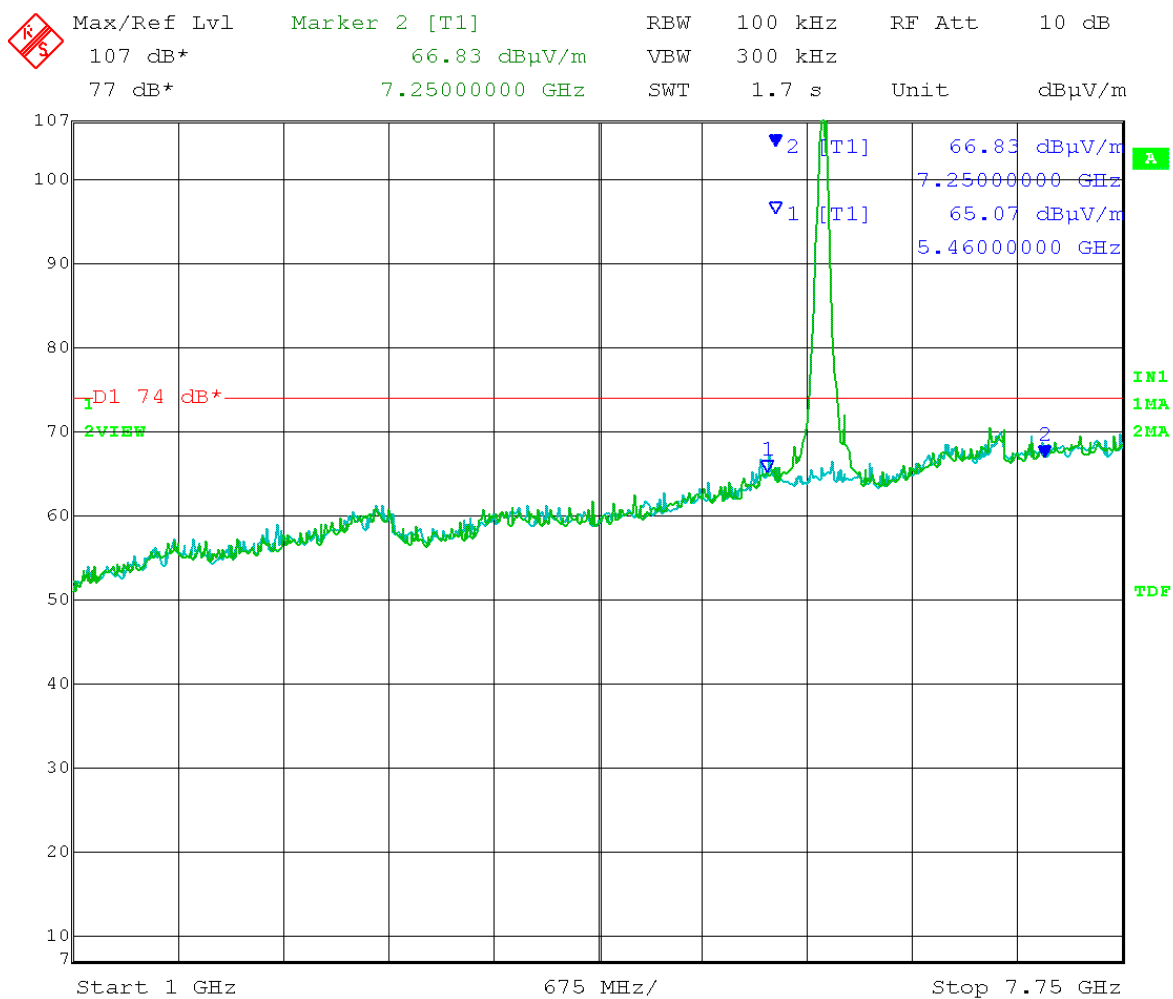
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



Date: 27.MAR.2014 10:30:20

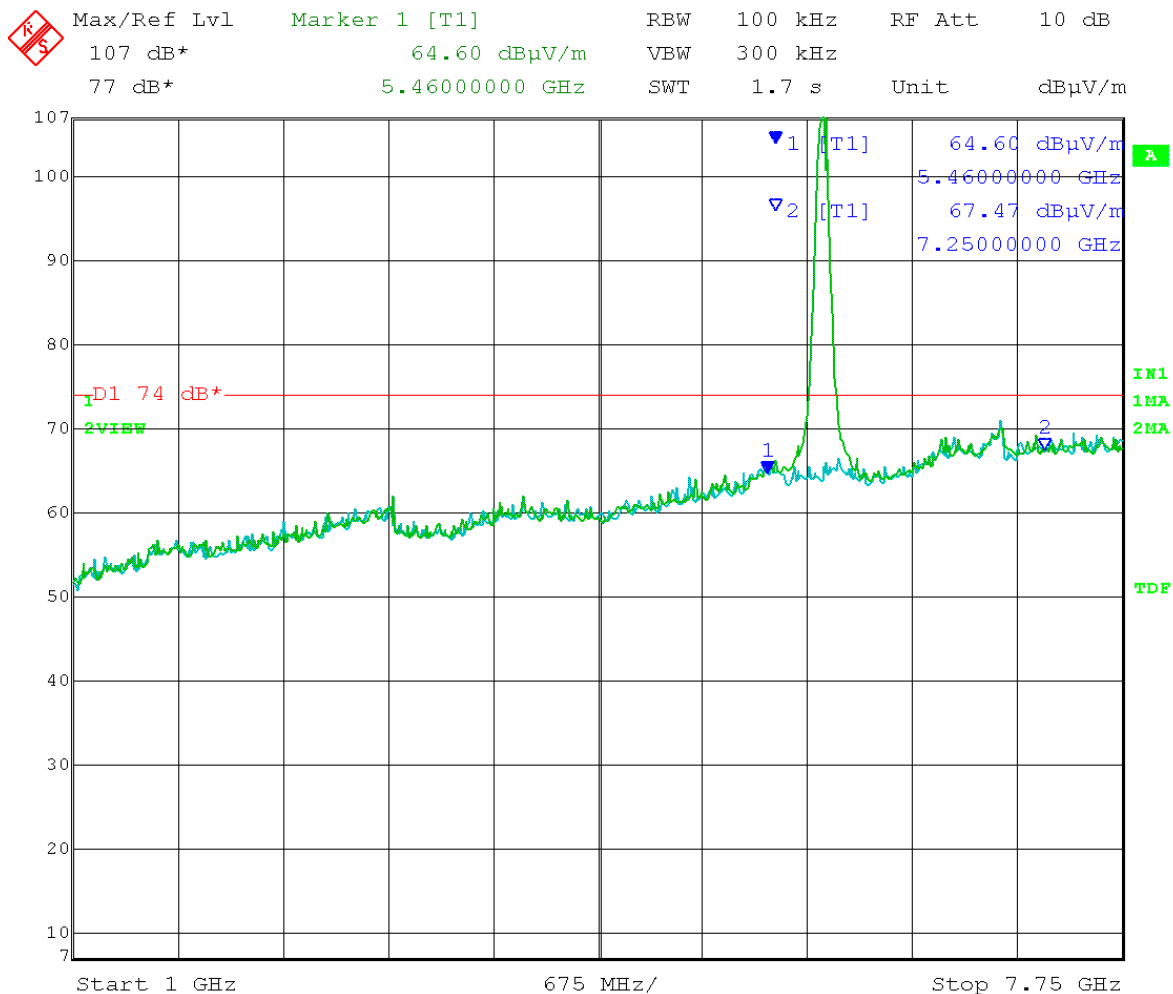
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:05:45

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

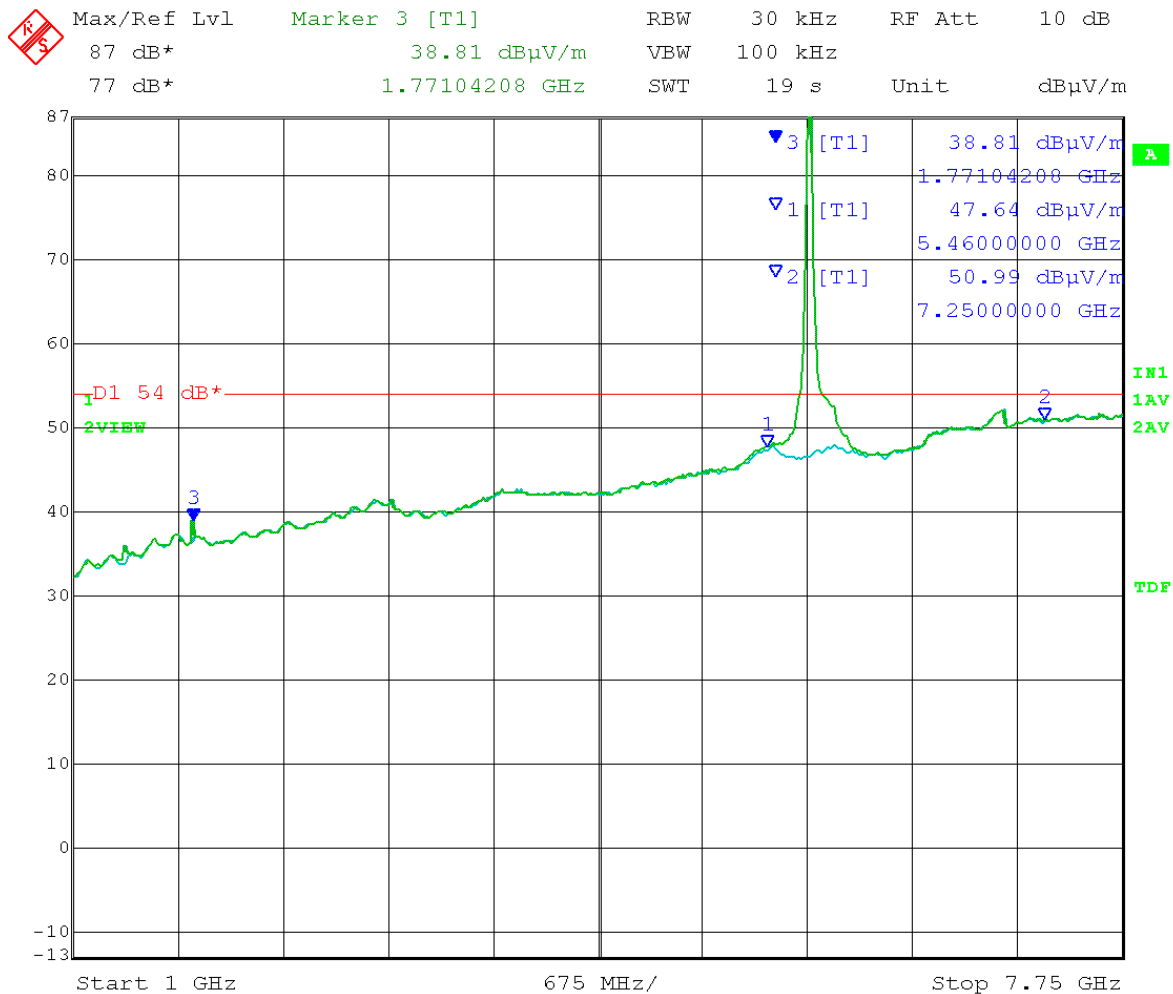
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Horizontal



Date: 26.MAR.2014 13:29:19

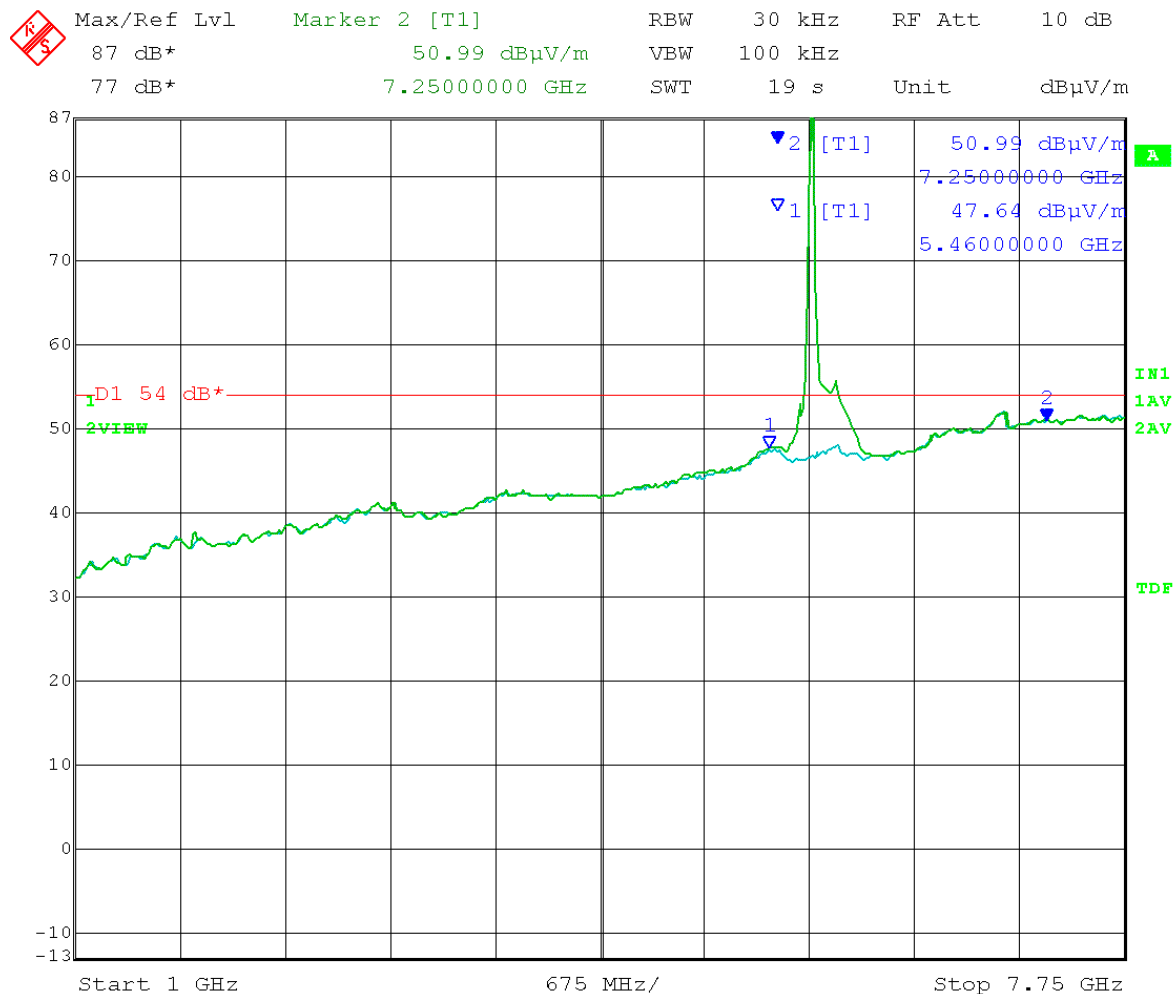
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.740 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Vertical



Date: 27.MAR.2014 08:23:33

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.740 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

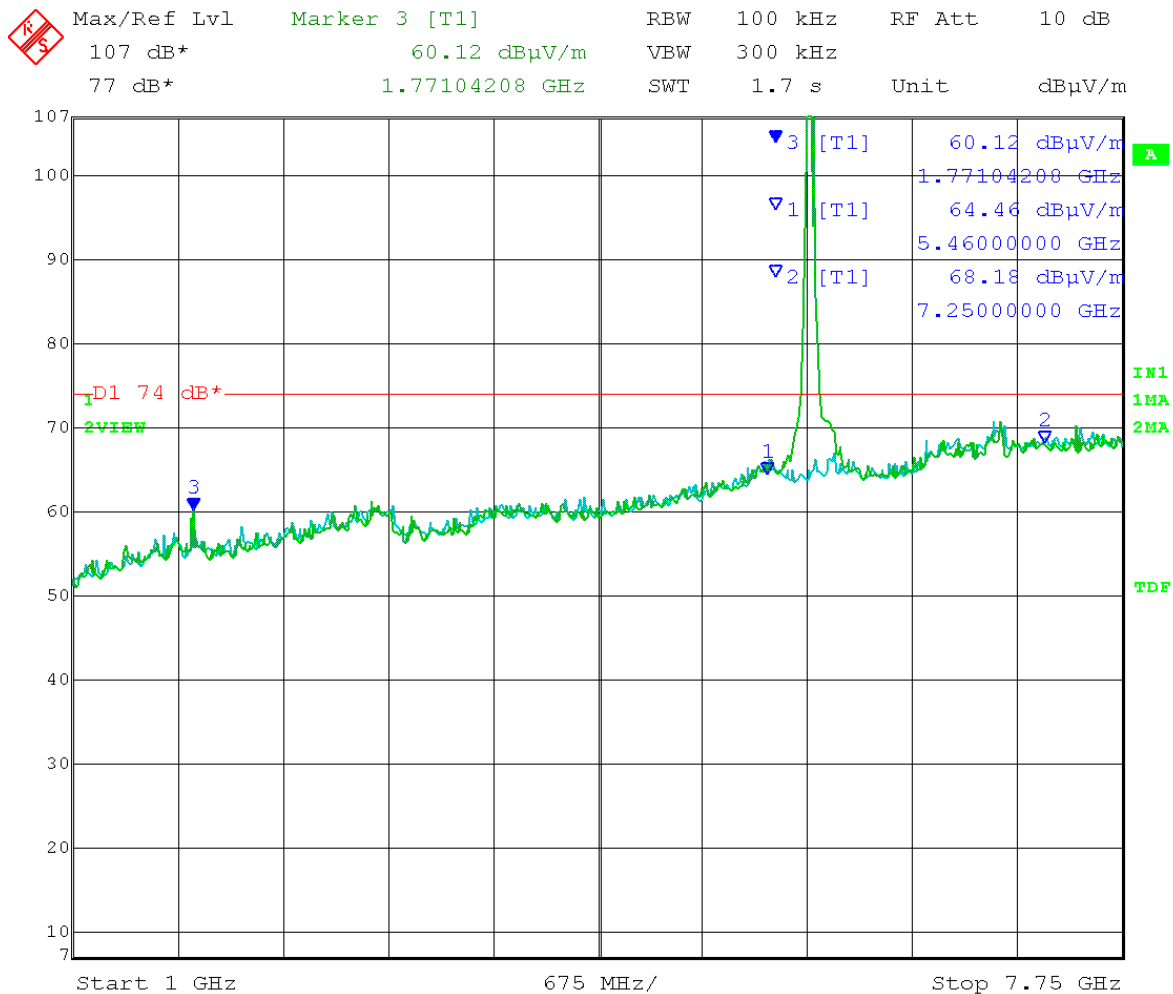
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Horizontal



Date: 26.MAR.2014 15:24:47

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.740 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Vertical



Date: 26.MAR.2014 15:48:32

Test Date: 03-26-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
20 MHz channel BW Output power setting: 28.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

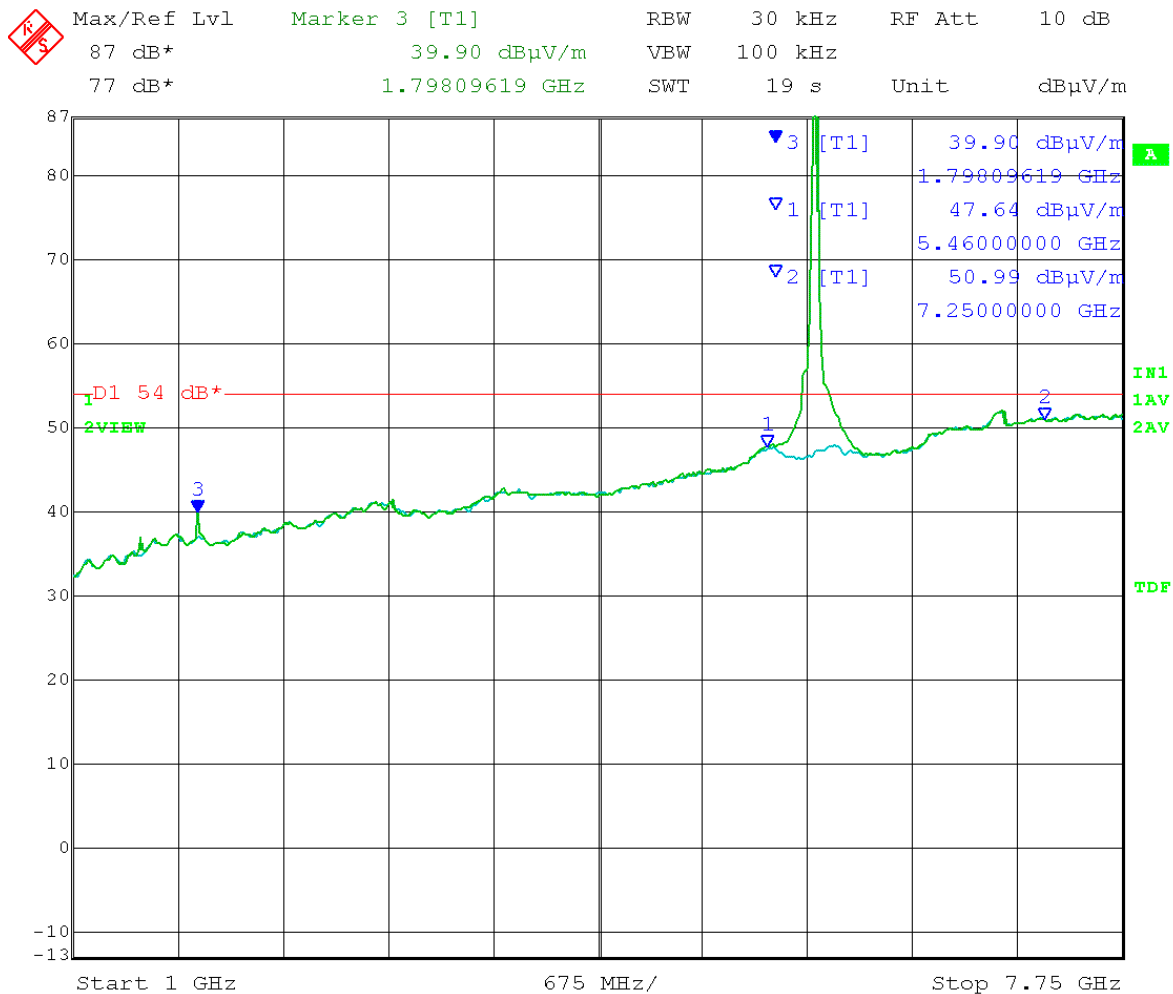
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Horizontal



Date: 26.MAR.2014 13:33:46

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

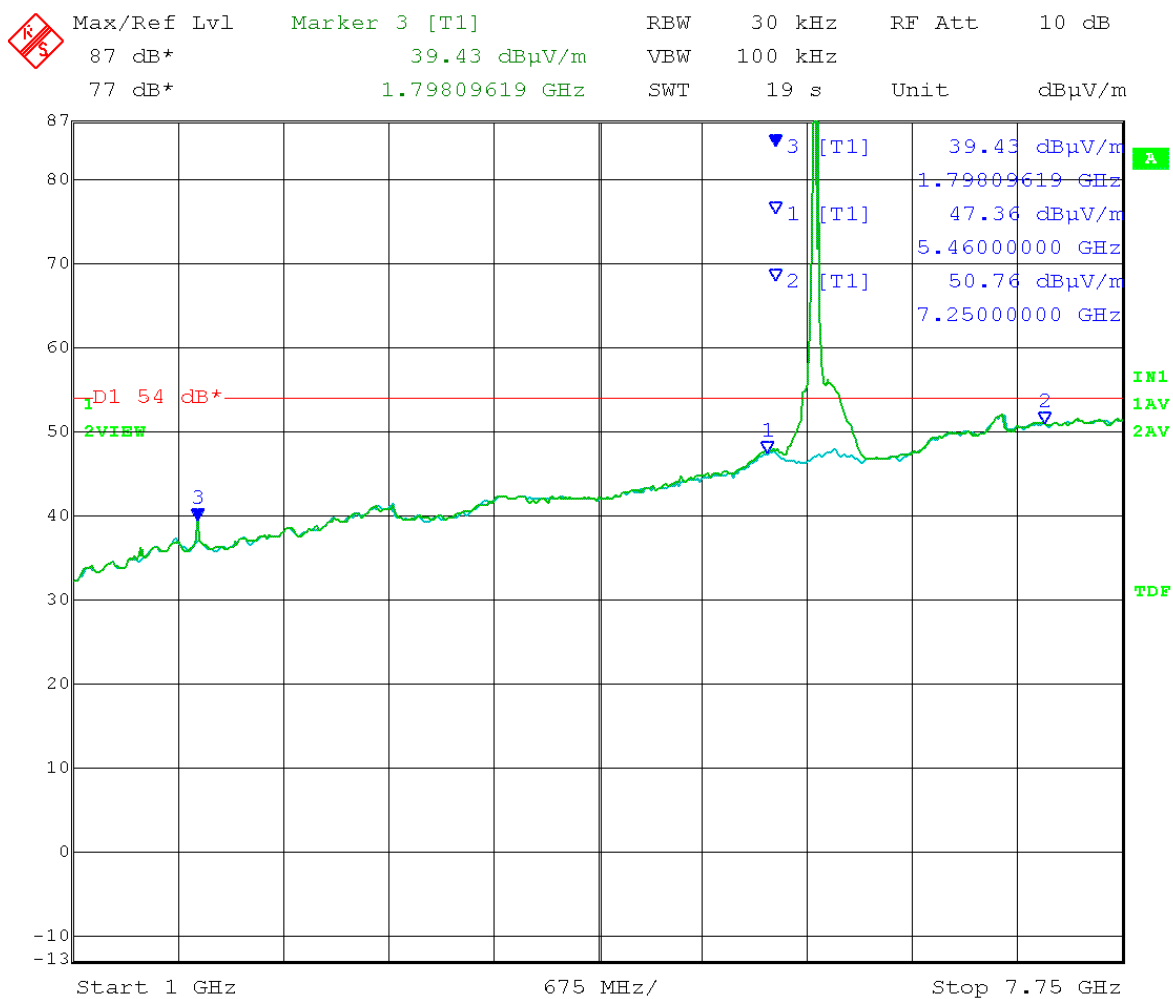
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 08:26:06

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

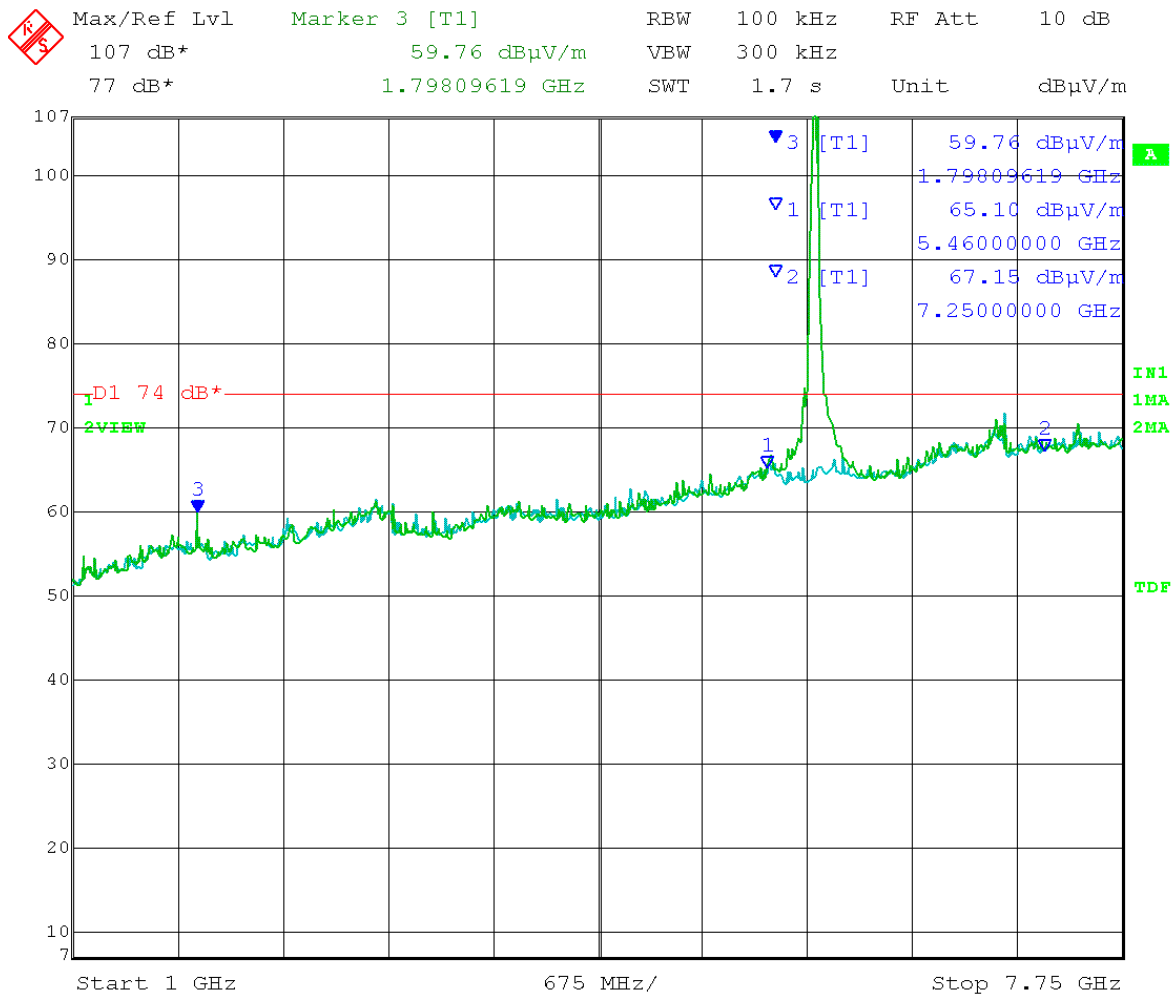
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Horizontal



Date: 26.MAR.2014 15:27:50

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Vertical



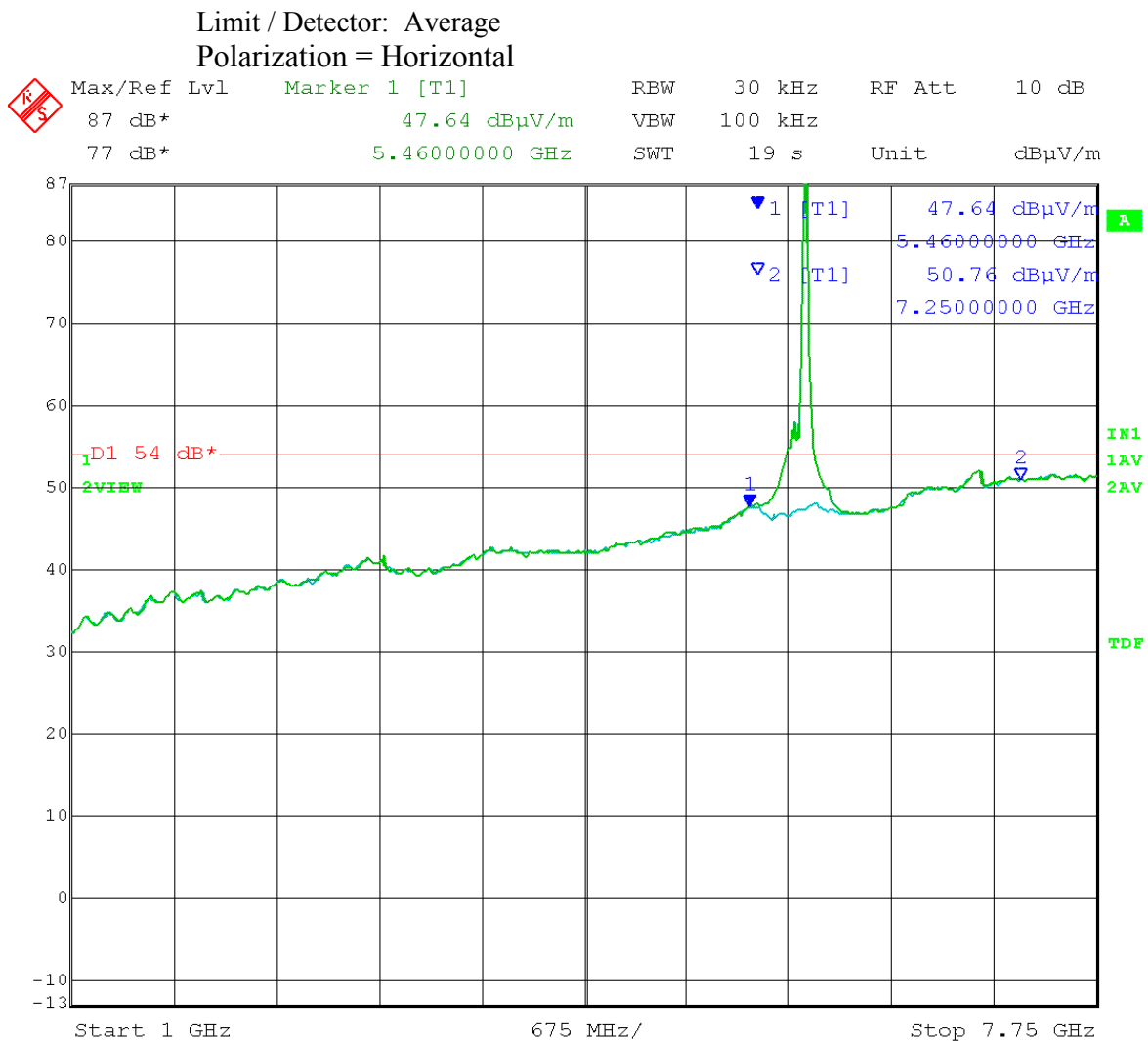
Date: 26.MAR.2014 15:35:54

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF



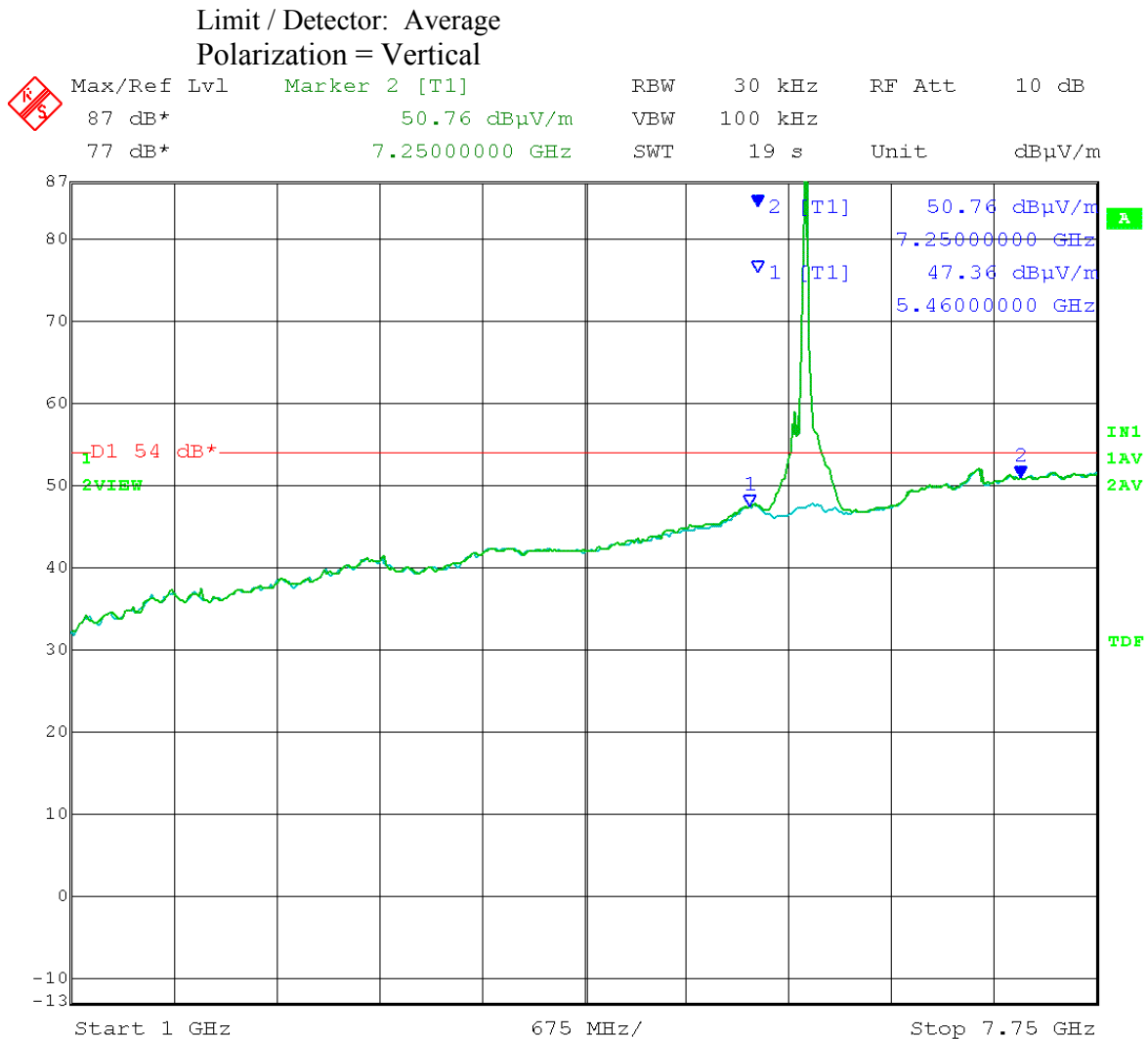
Date: 26.MAR.2014 13:36:43

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF



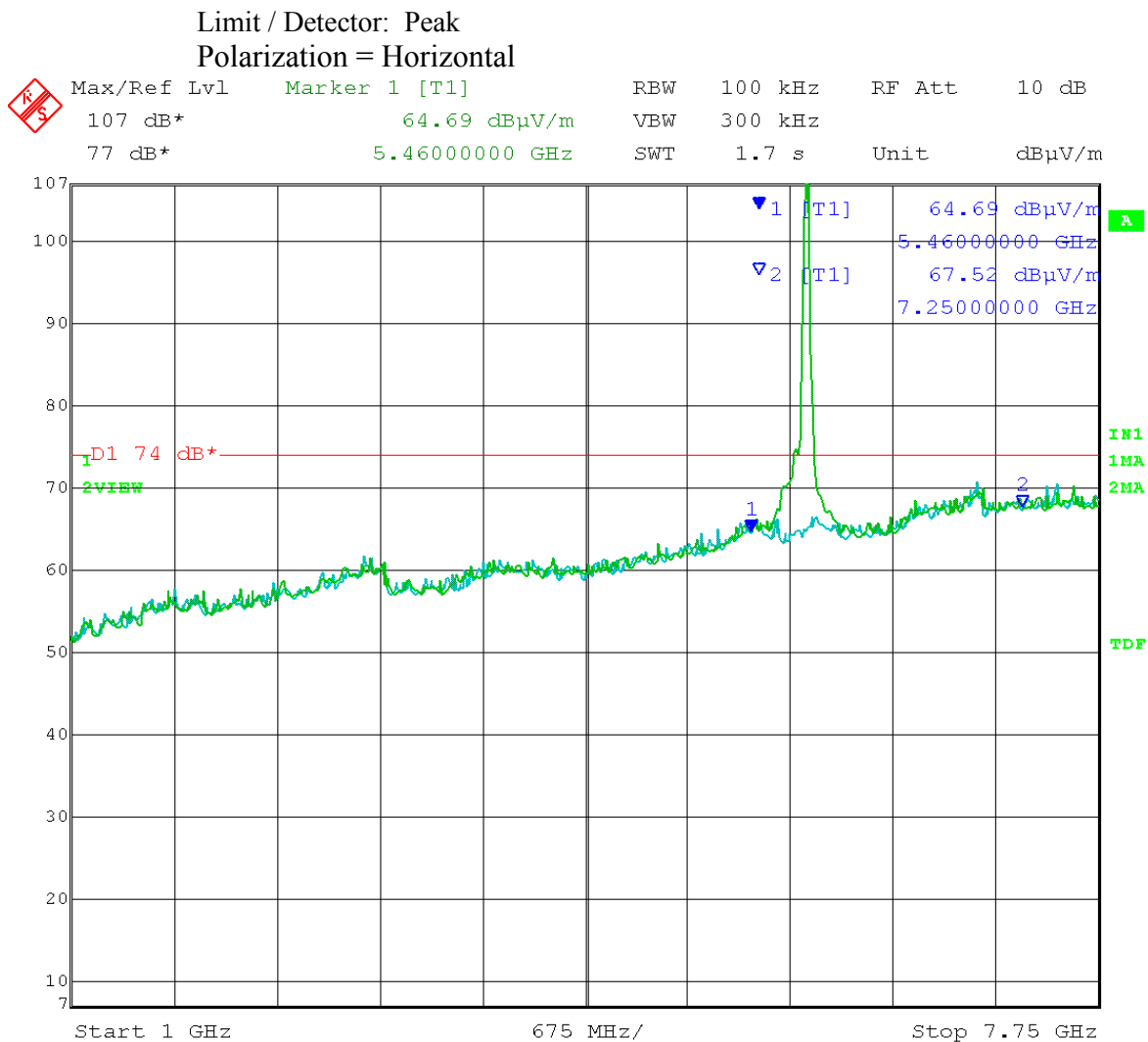
Date: 27.MAR.2014 08:20:57

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF



Date: 26.MAR.2014 15:22:26

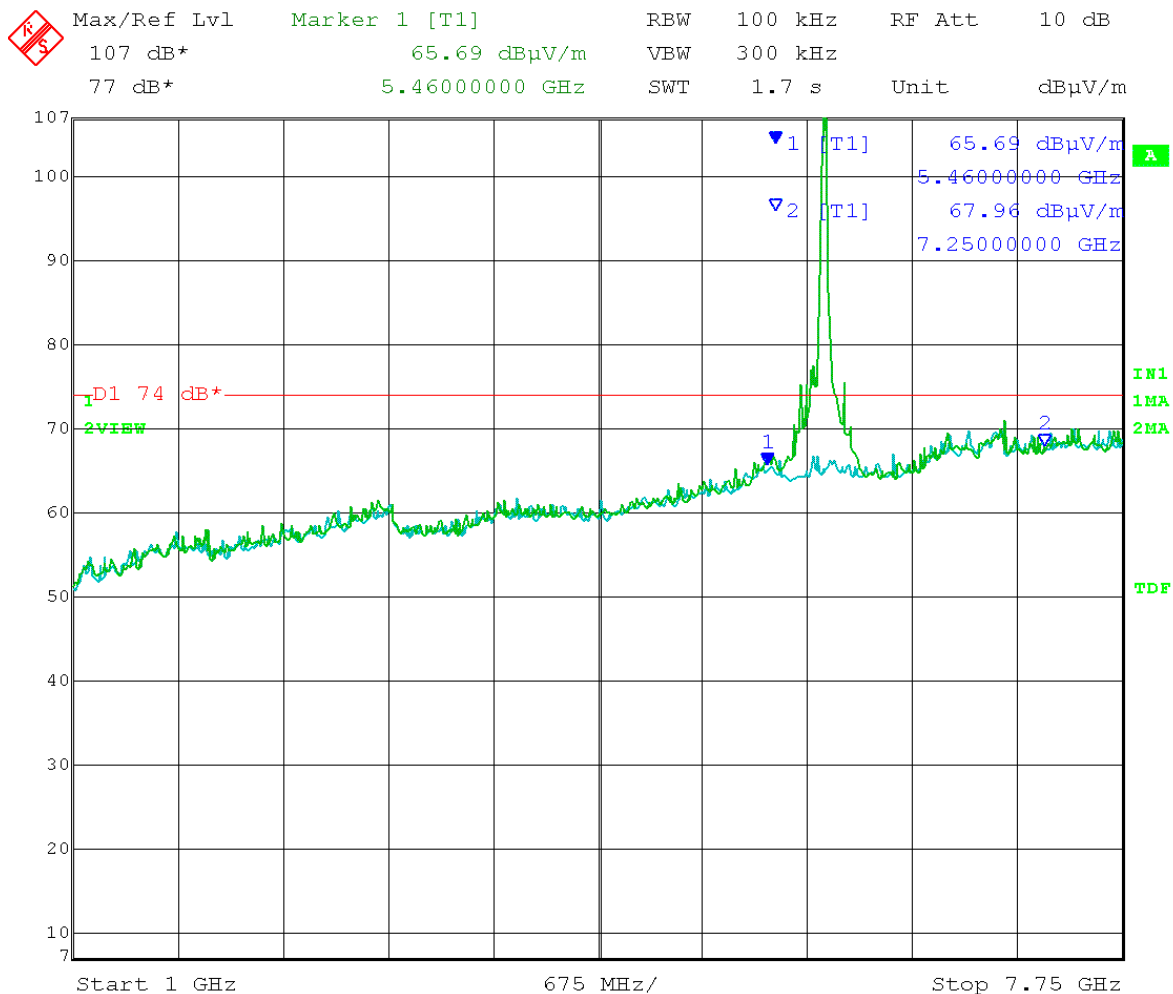
Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Point mode
 20 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 26.MAR.2014 15:50:40

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

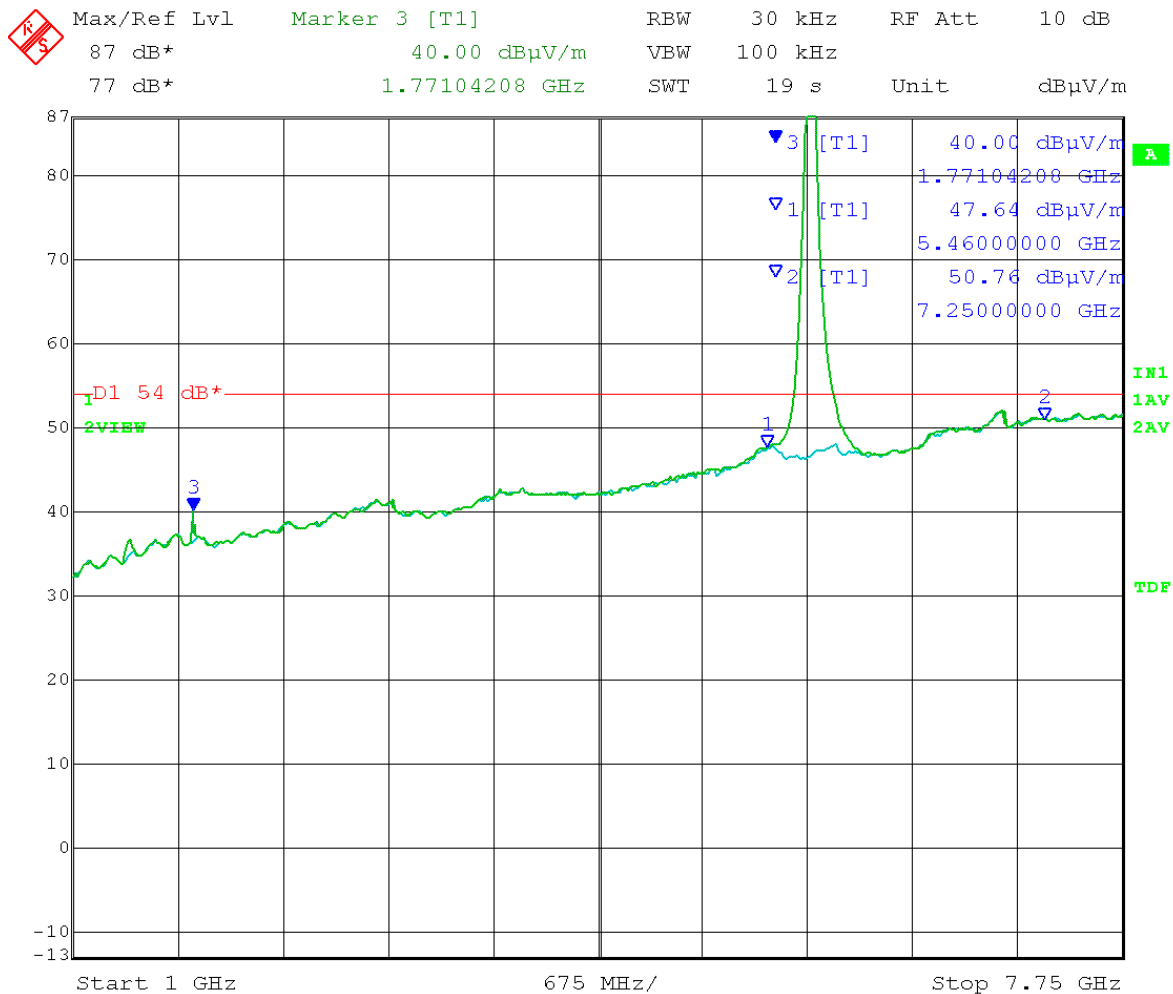
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Horizontal



Date: 26.MAR.2014 13:48:10

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

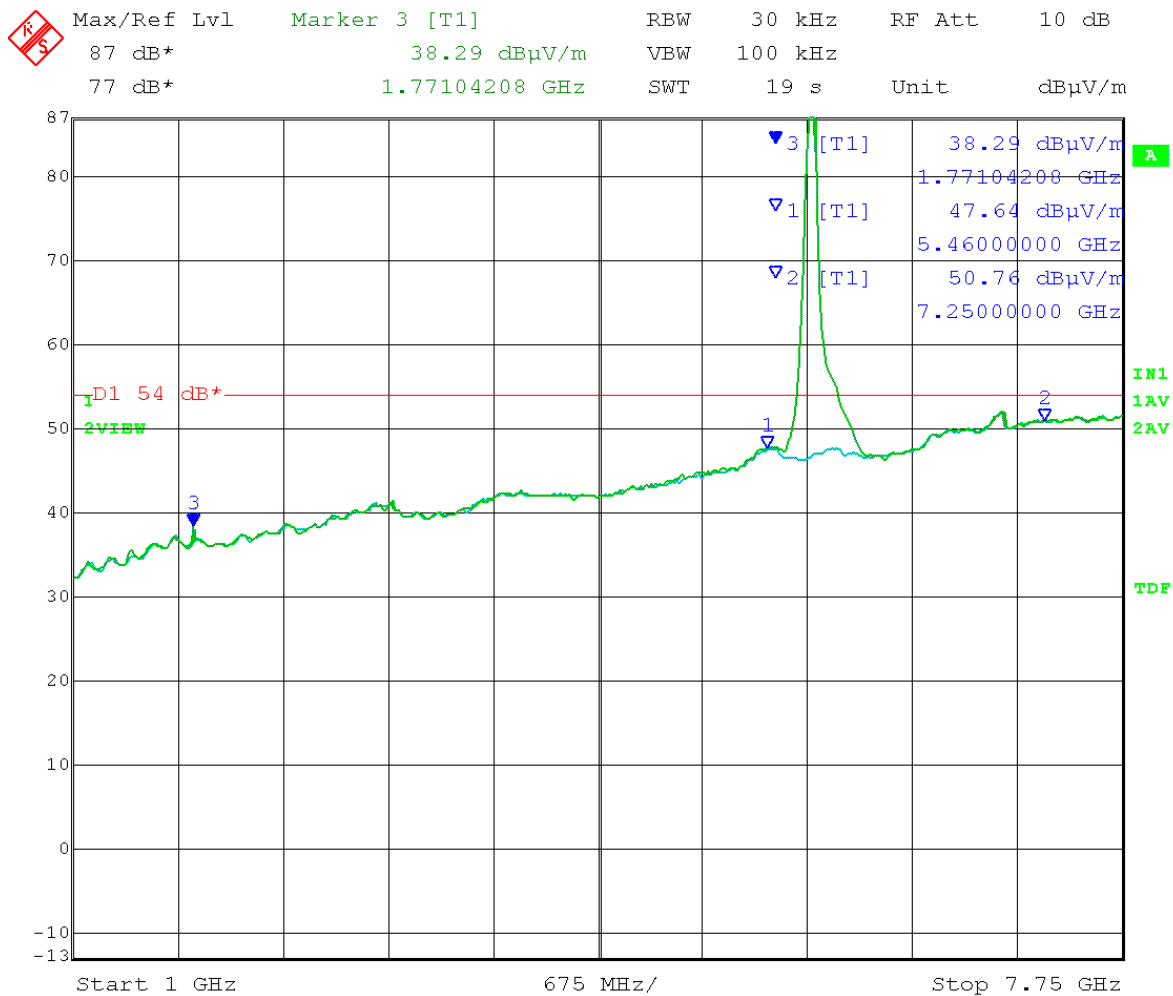
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



Date: 27.MAR.2014 08:31:14

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

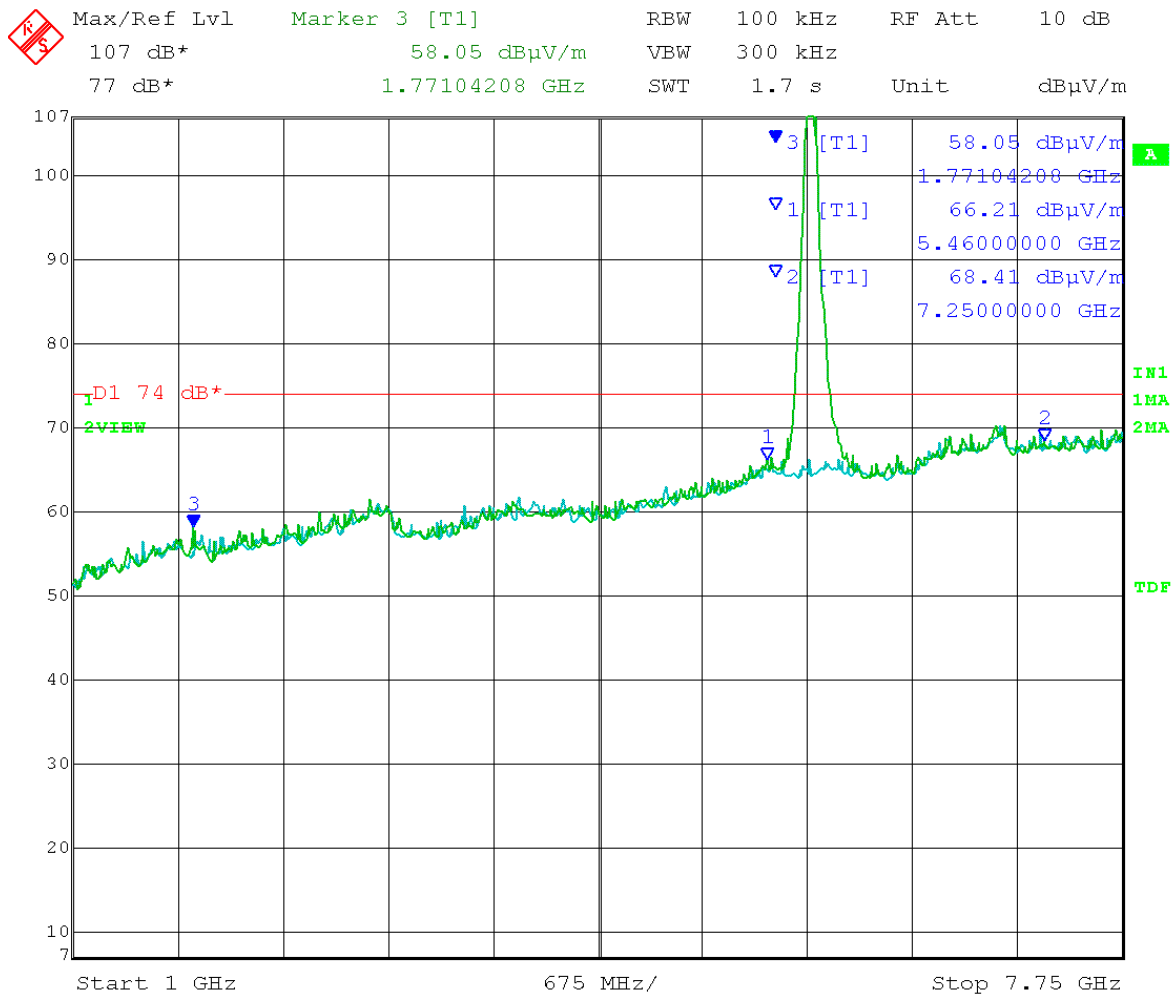
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Horizontal



Date: 26.MAR.2014 15:18:41

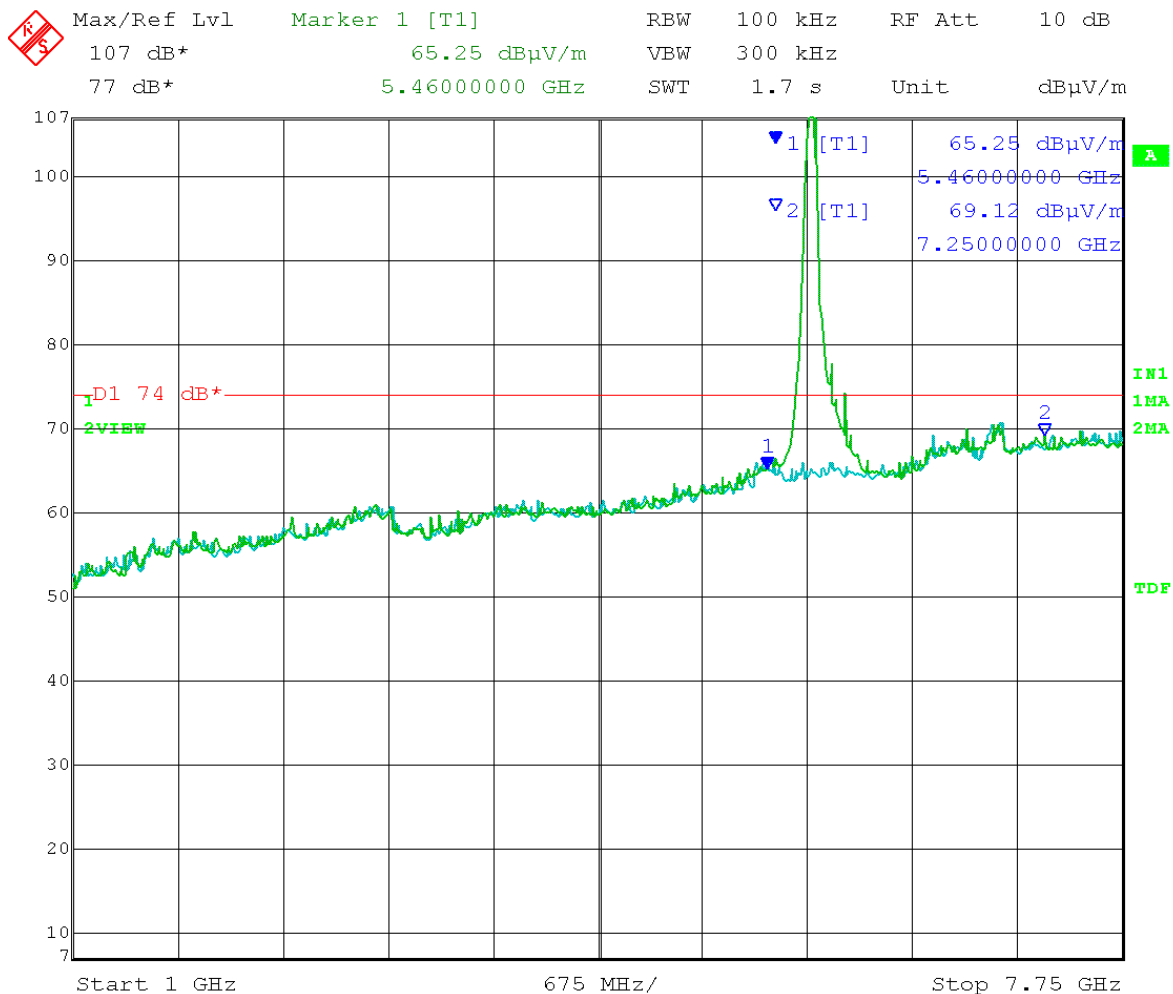
Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 26.MAR.2014 15:55:36

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

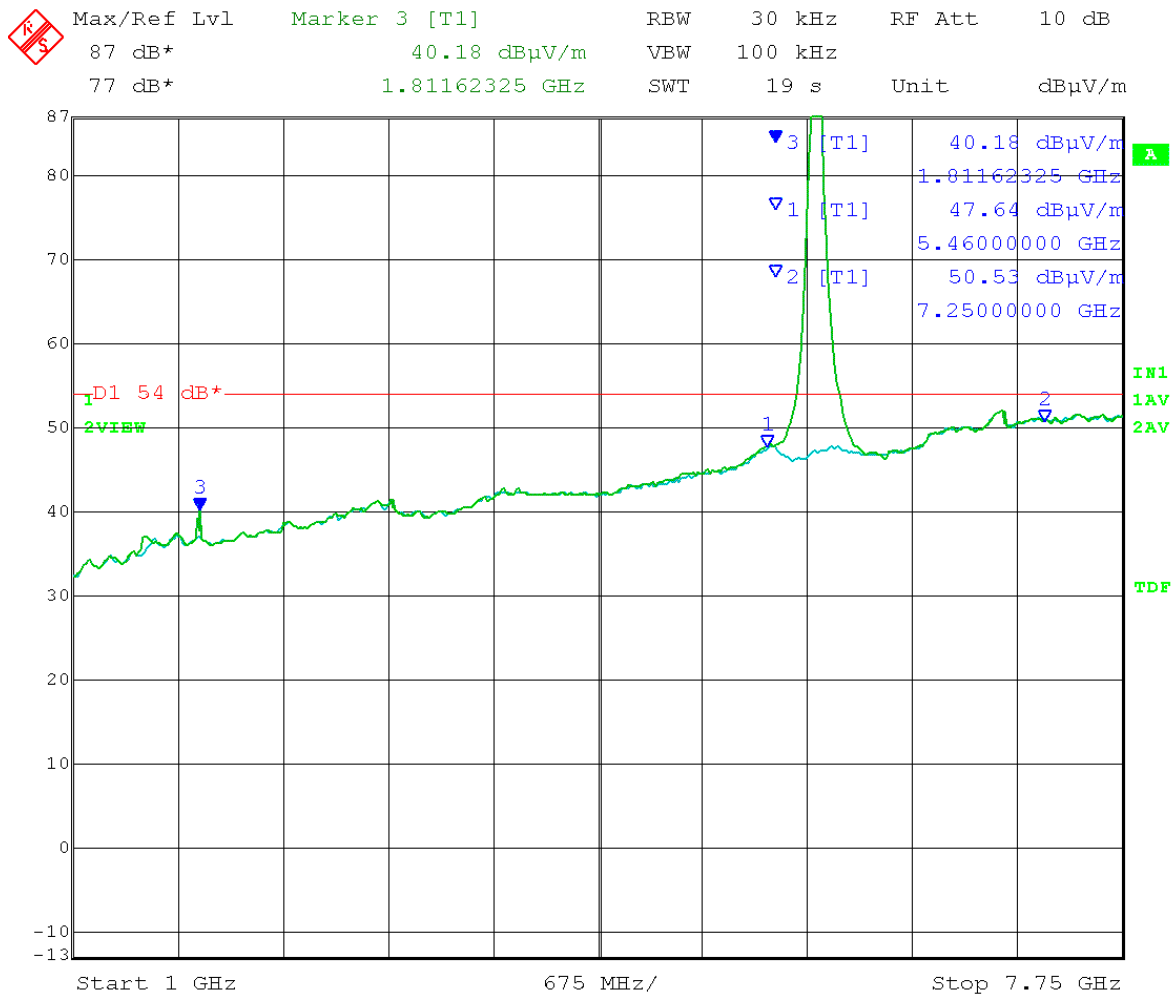
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Horizontal



Date: 26.MAR.2014 15:04:07

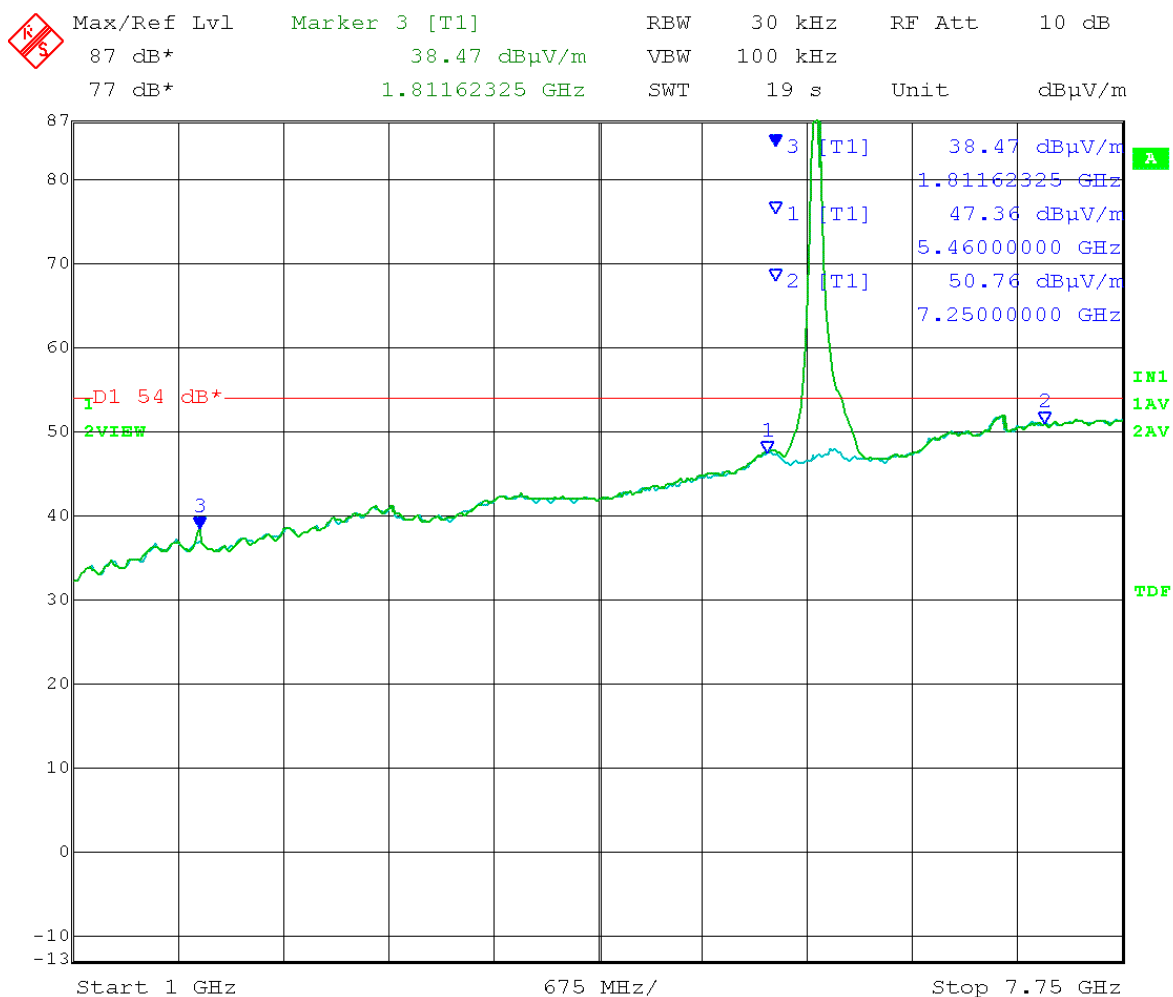
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Mid Channel Transmit = 5.785 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band
 Limit / Detector: Average
 Polarization = Vertical

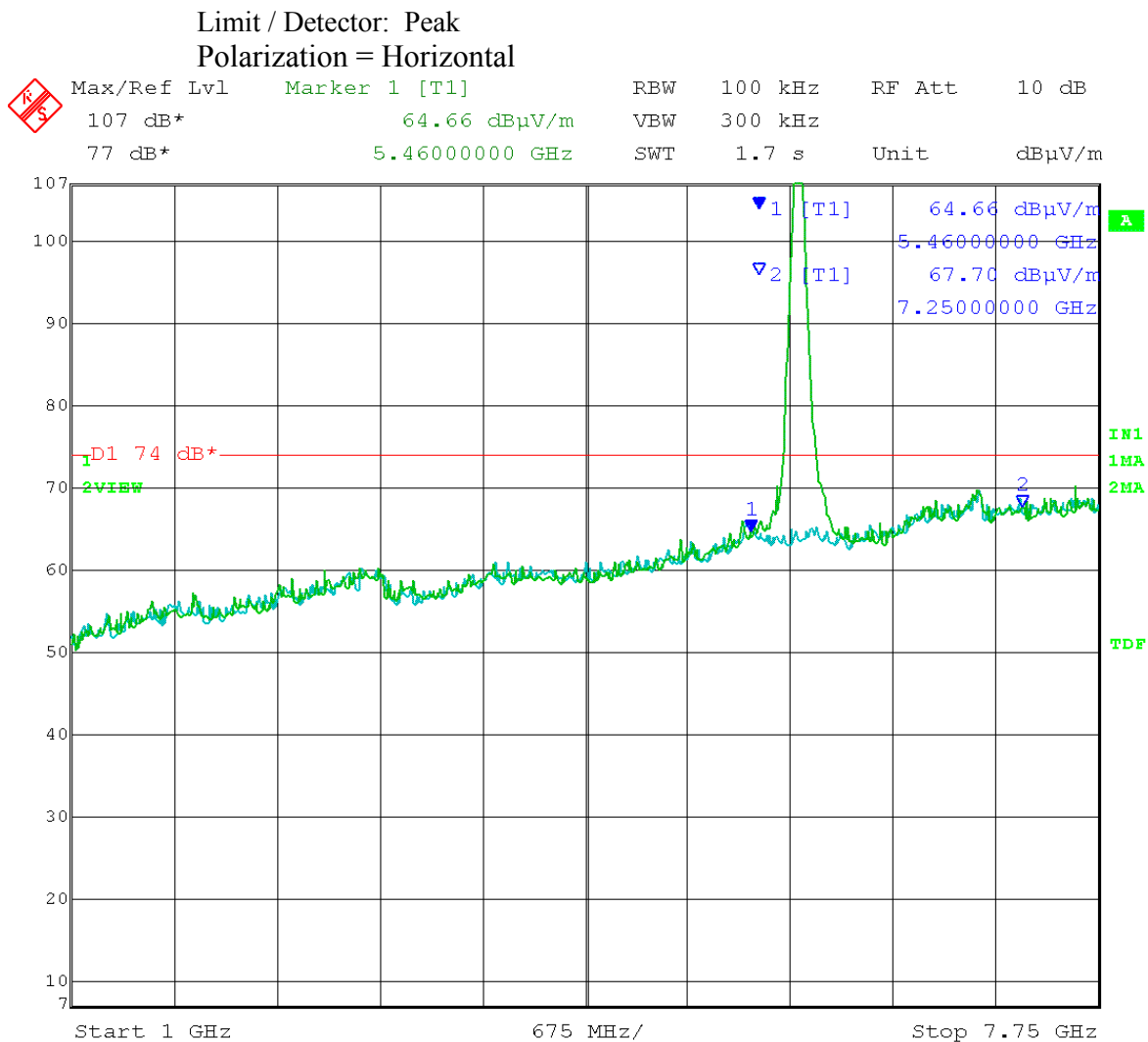


Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF



Date: 26.MAR.2014 15:08:02

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

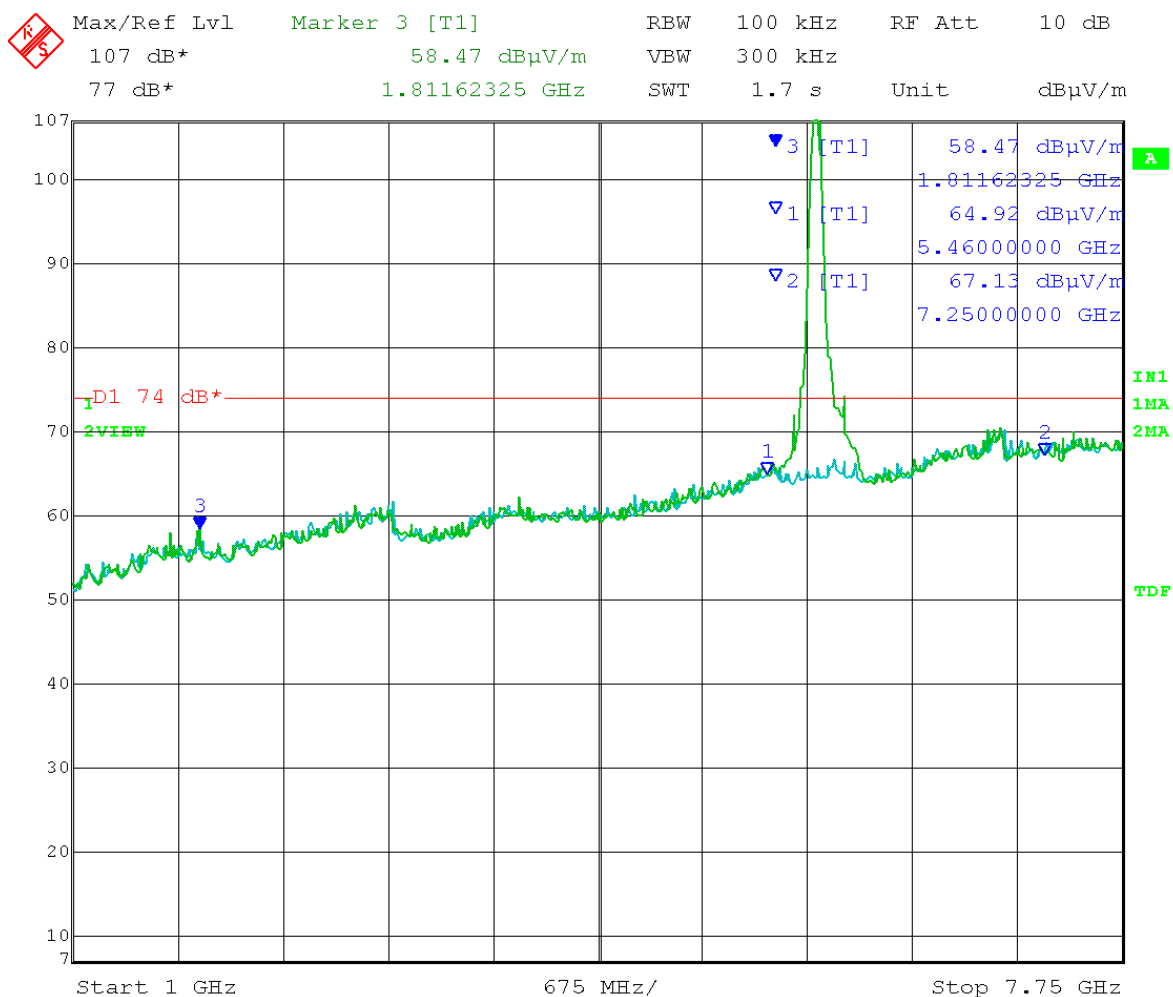
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Peak

Polarization = Vertical



Date: 26.MAR.2014 15:53:25

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

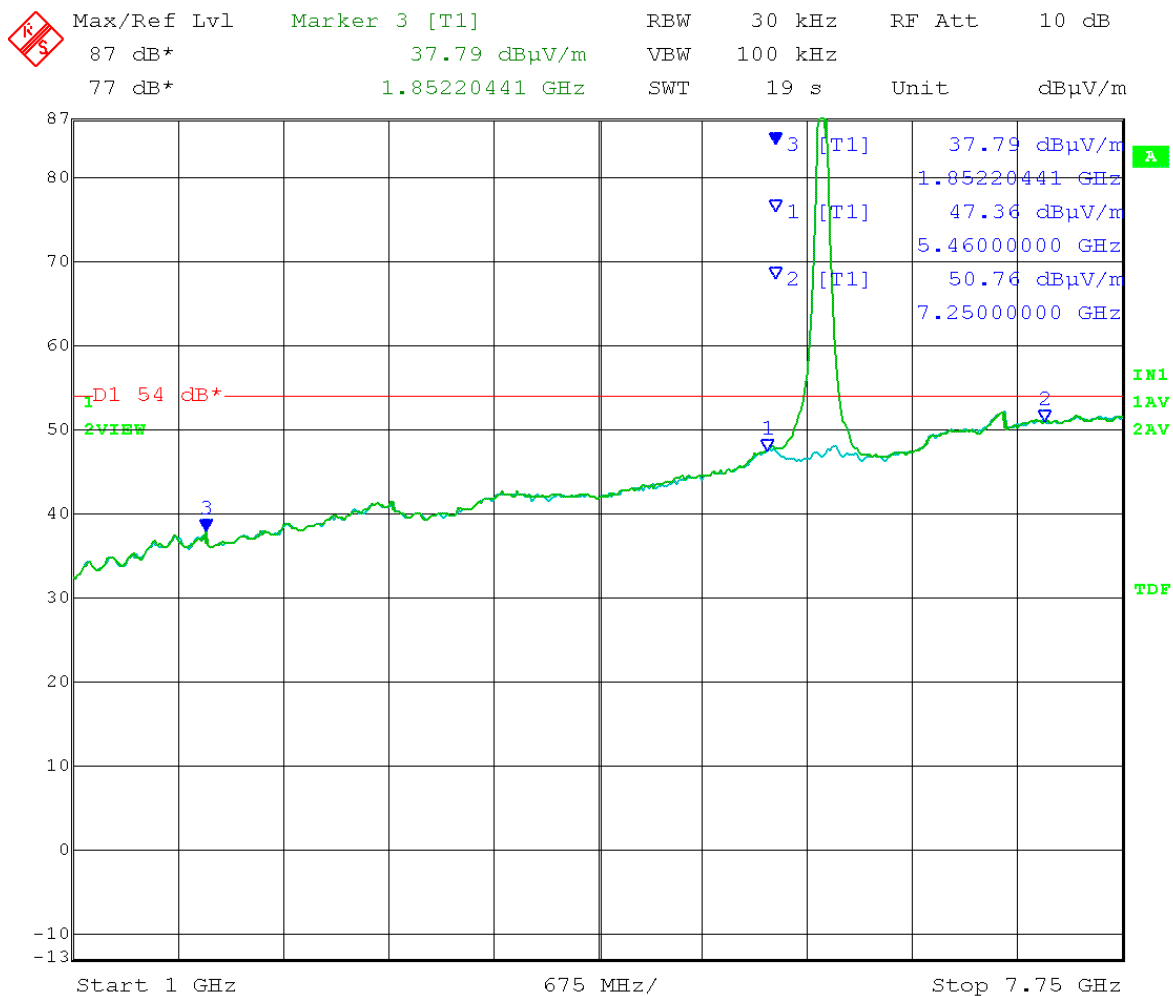
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Horizontal



Date: 26.MAR.2014 13:44:11

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

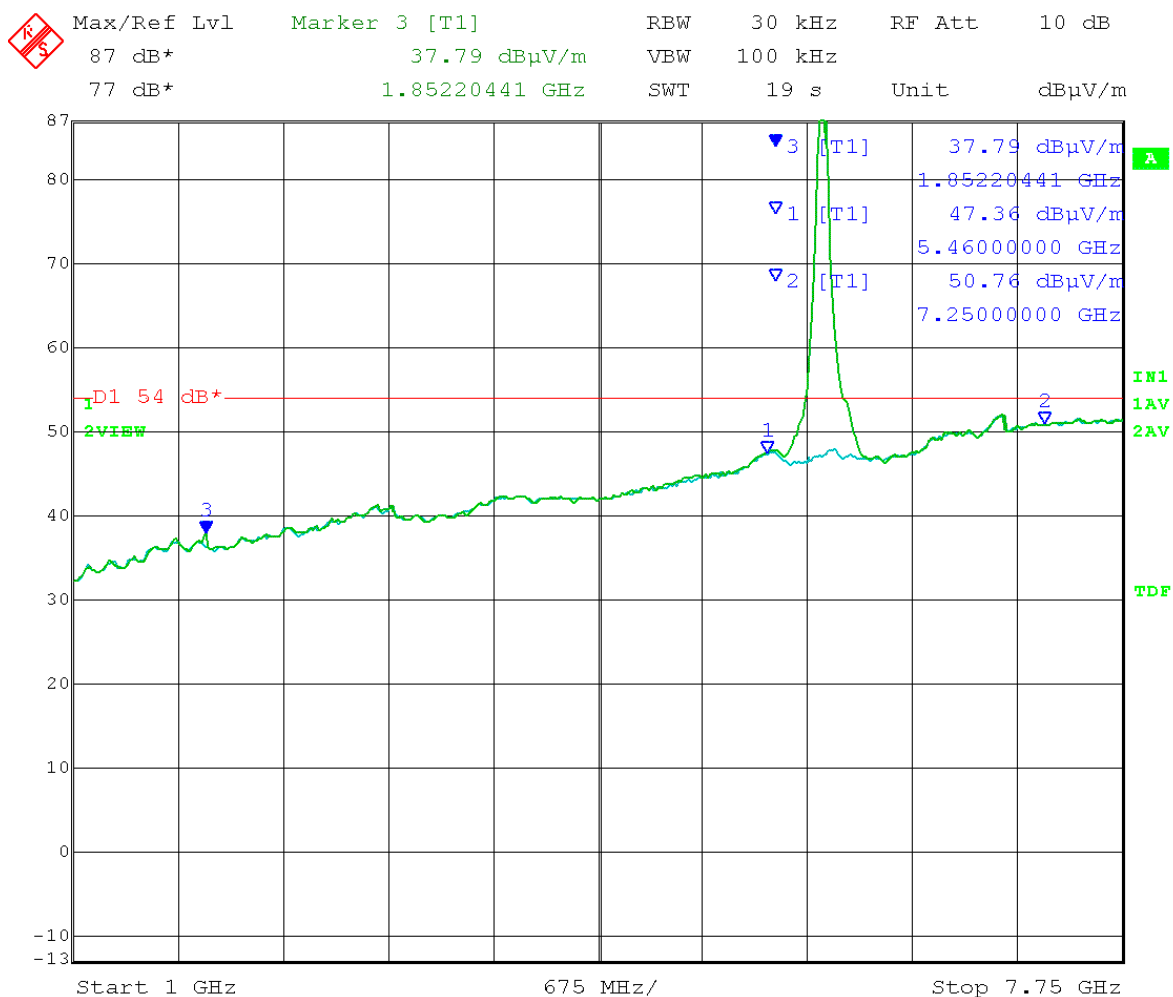
Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

NOTE: Marker #3 is not in a restricted band

Limit / Detector: Average

Polarization = Vertical



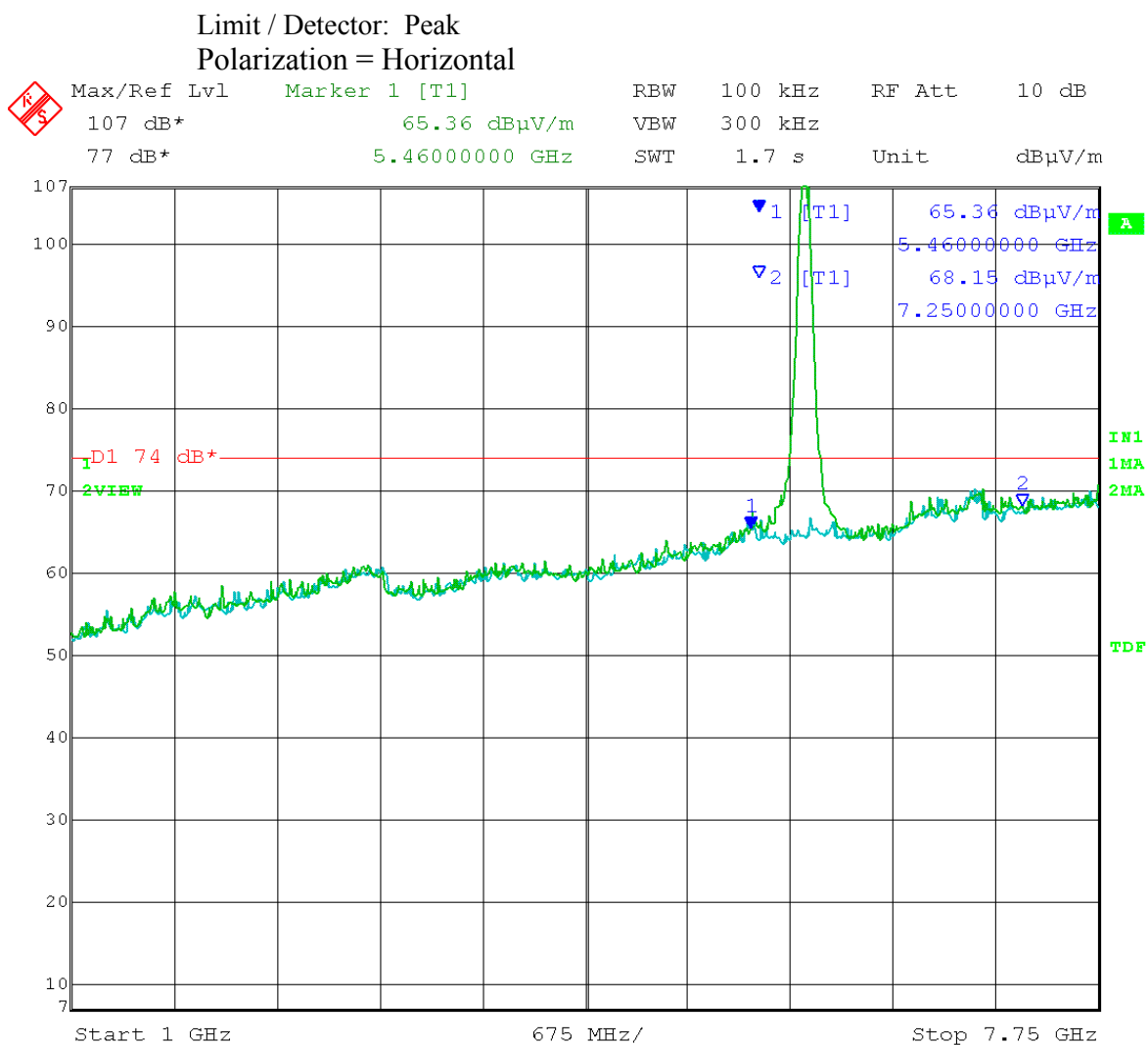
Date: 27.MAR.2014 08:28:40

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF



Date: 26.MAR.2014 15:16:37

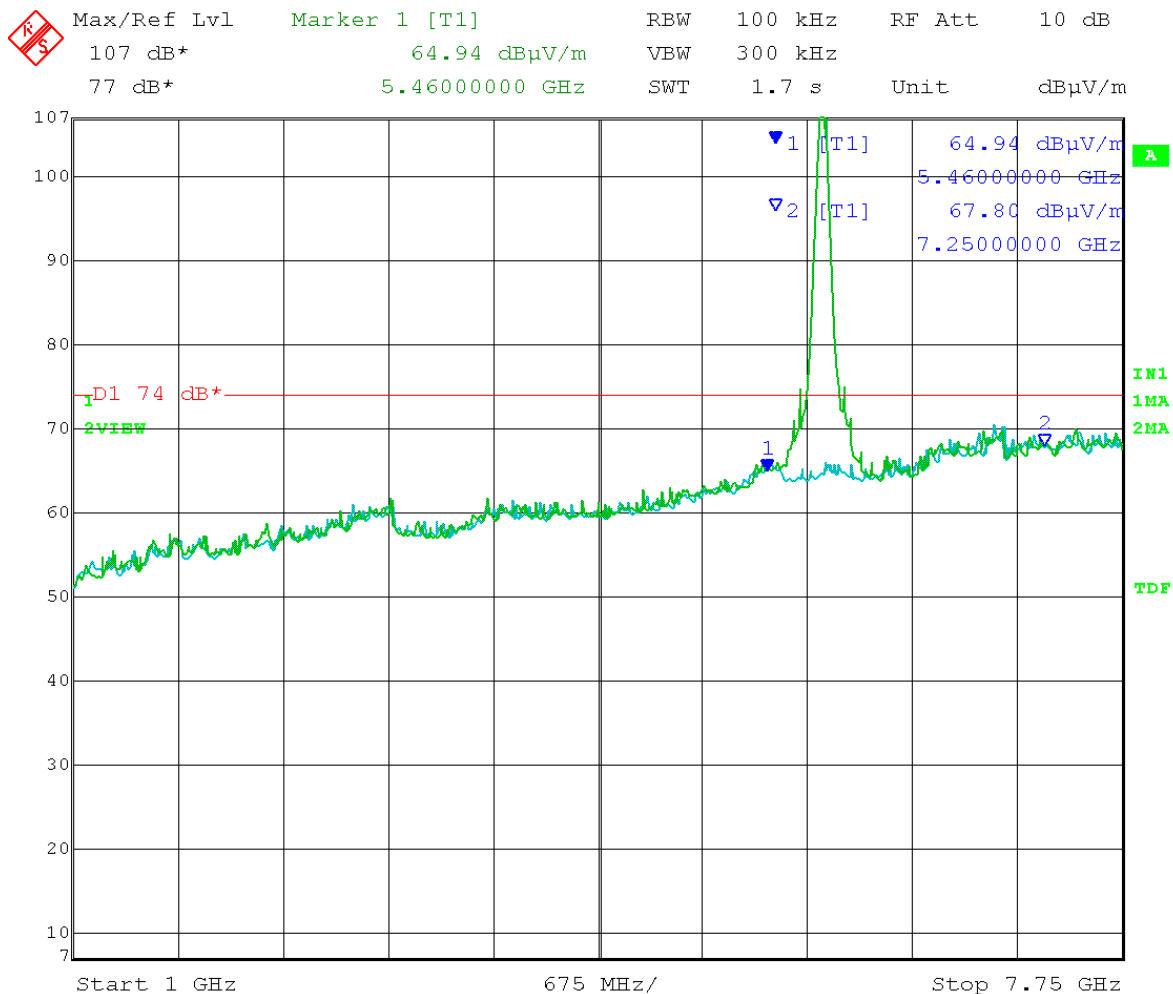
Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Point mode
 40 MHz channel BW Output power setting: 28.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

NOTE: Due to the high output power setting, along with the high gain antenna, lowering the attenuation enough to put the noise floor under the limit line resulted in an overload condition. Therefore, the RBW was lowered in order to get the noise floor under the limit line. It can be seen that there are no emissions from the EUT in the restricted bands from 1 GHz to 7.75 GHz.

Green trace = EUT transmitting on both ports at power setting 28.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



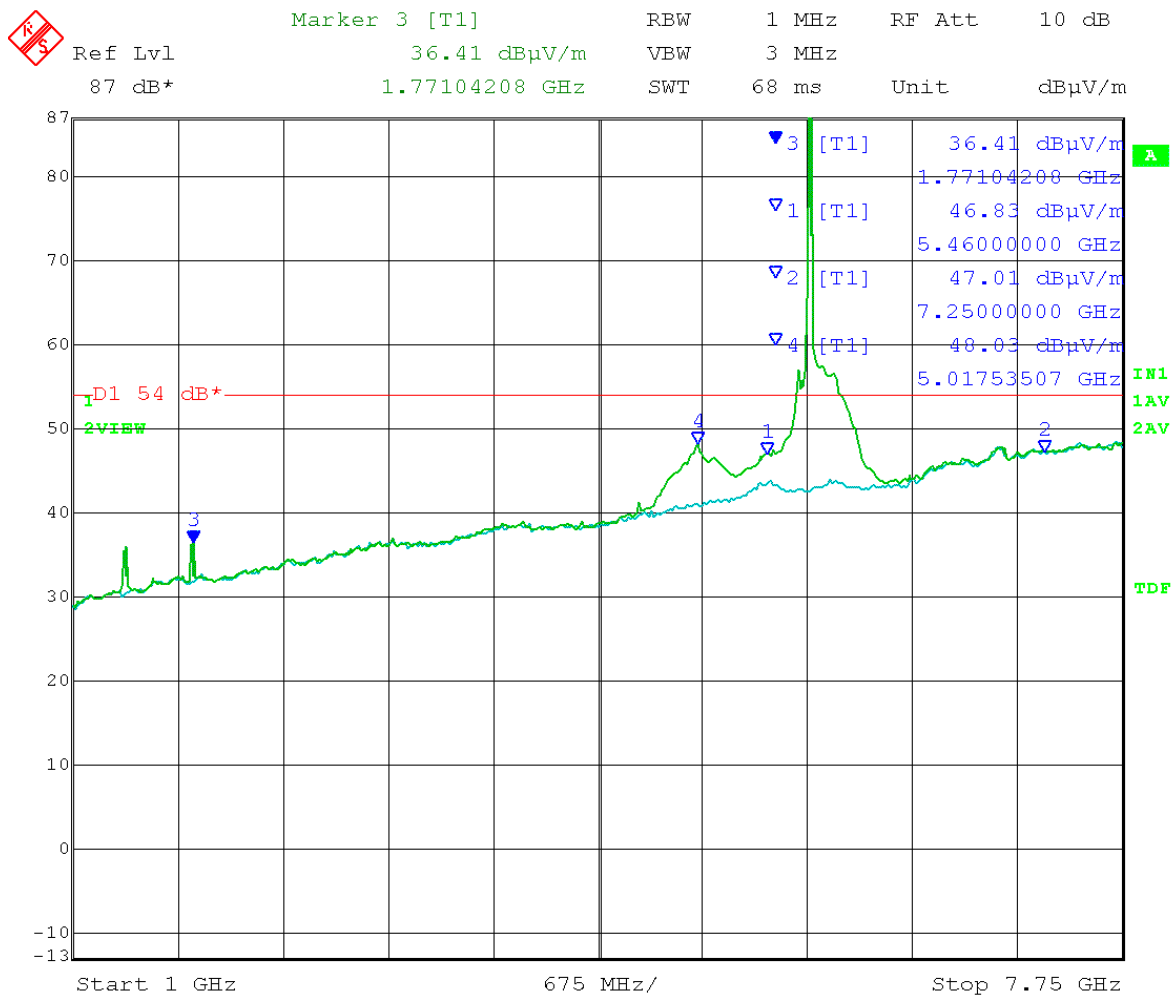
Date: 26.MAR.2014 15:57:44

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 11:14:08

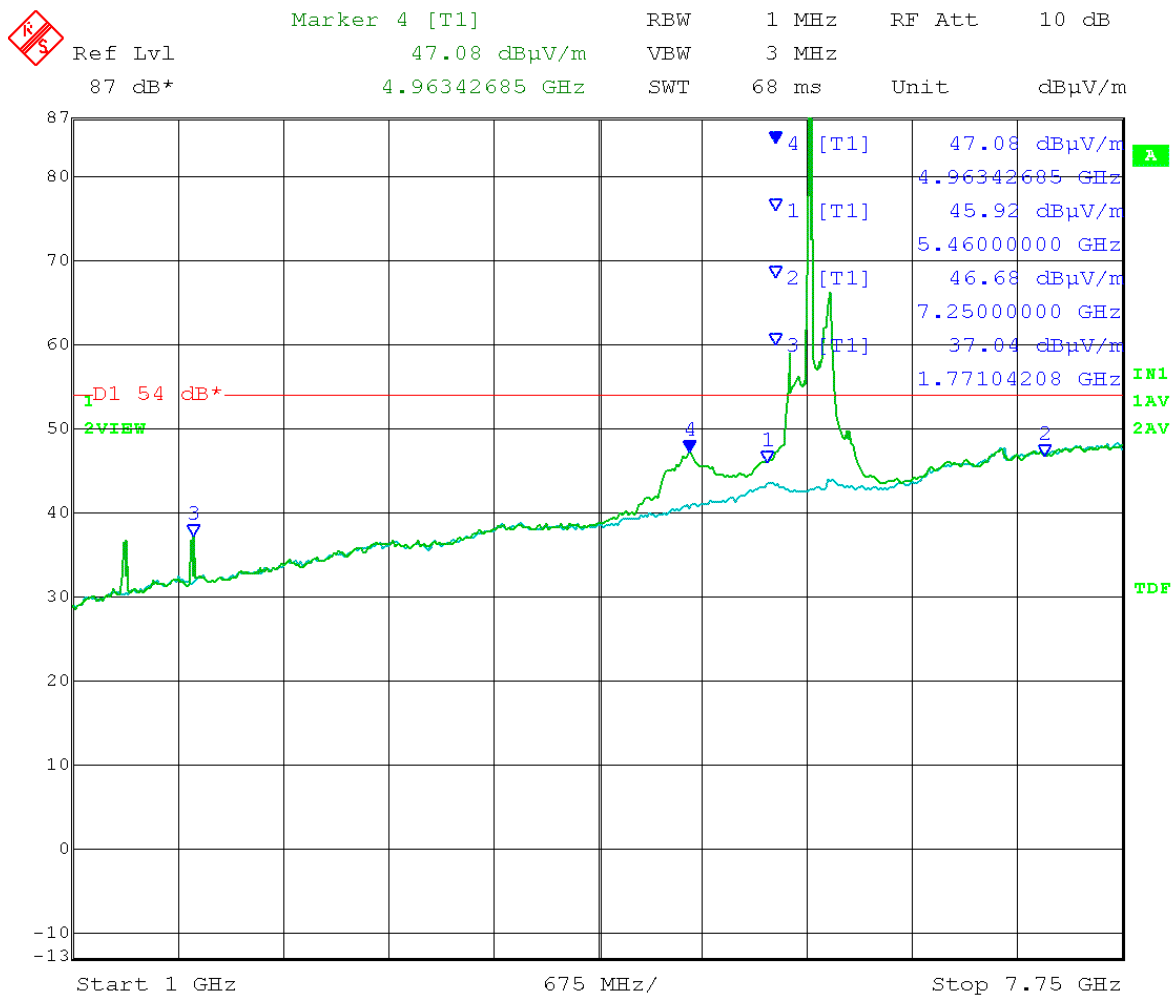
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Vertical



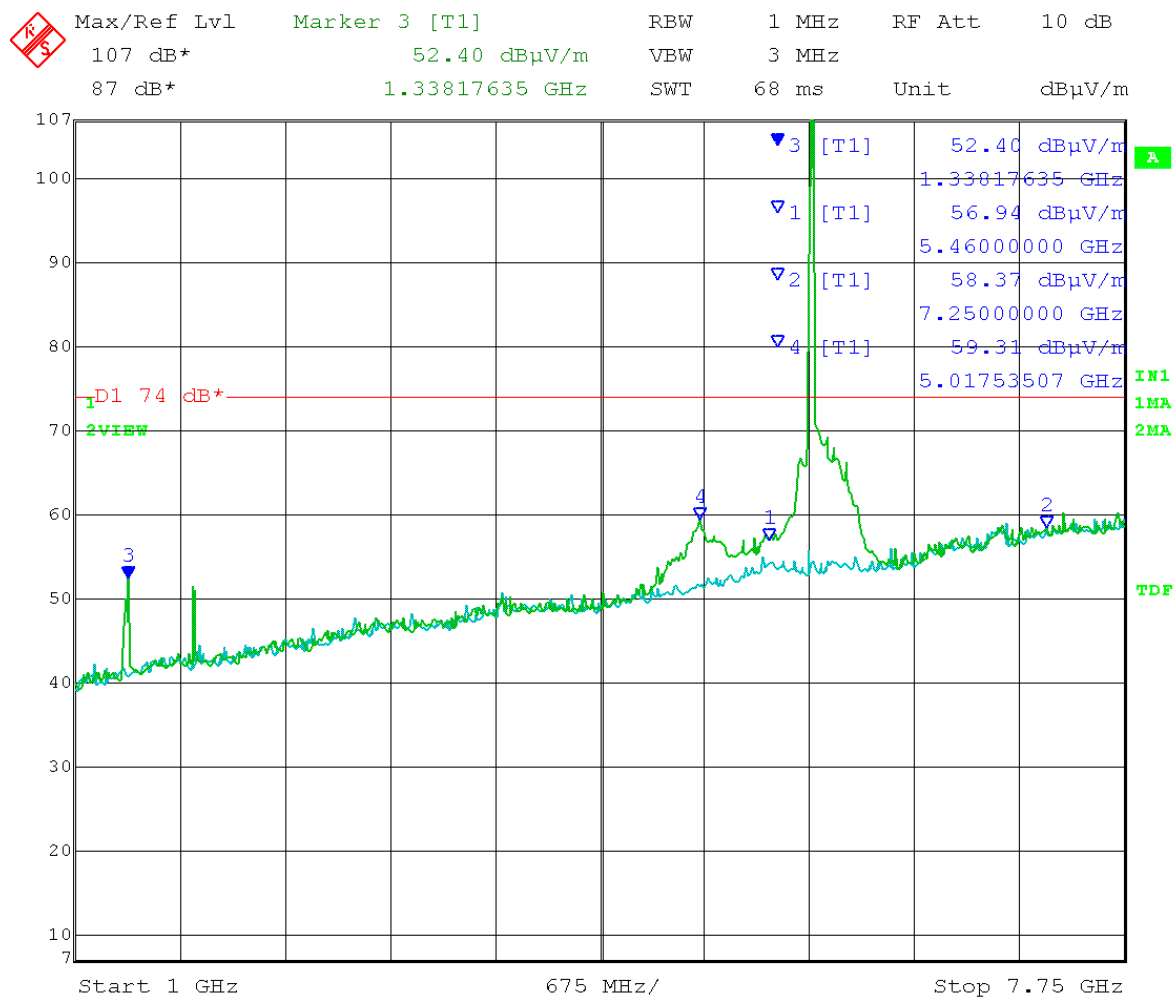
Date: 27.MAR.2014 13:33:27

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



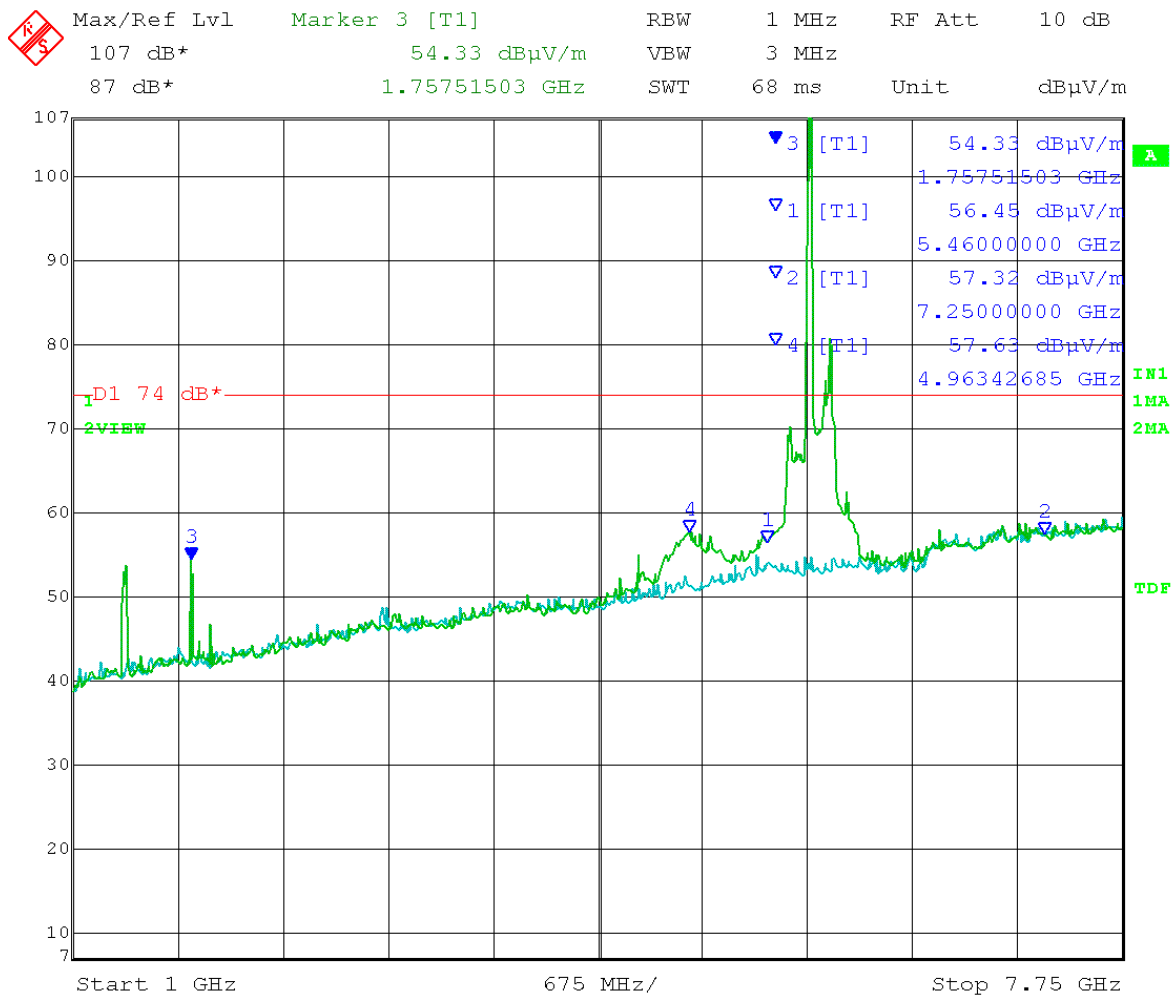
Date: 27.MAR.2014 11:37:29

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 10.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Vertical



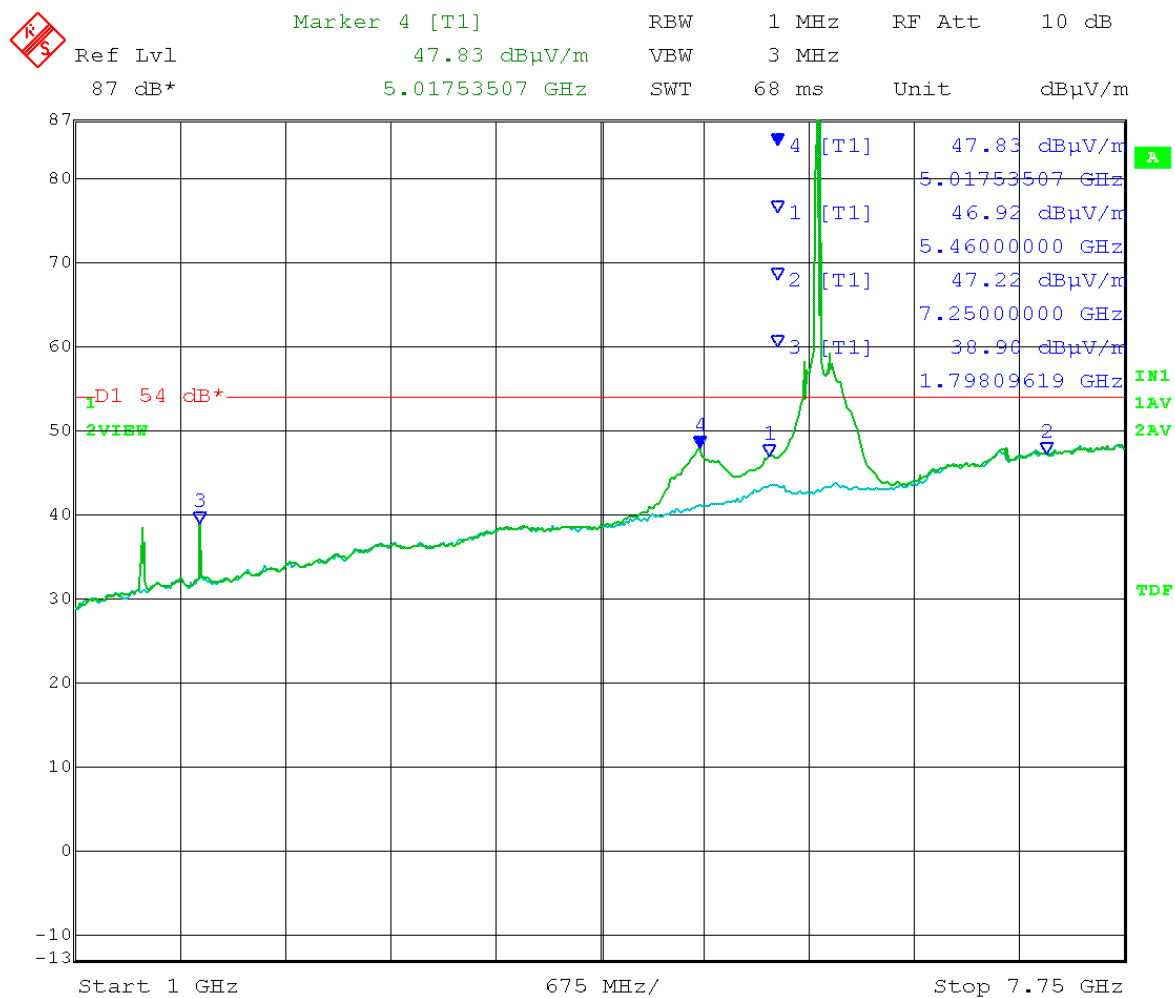
Date: 27.MAR.2014 14:11:15

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Mid Channel Transmit = 5.775 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 11:17:18

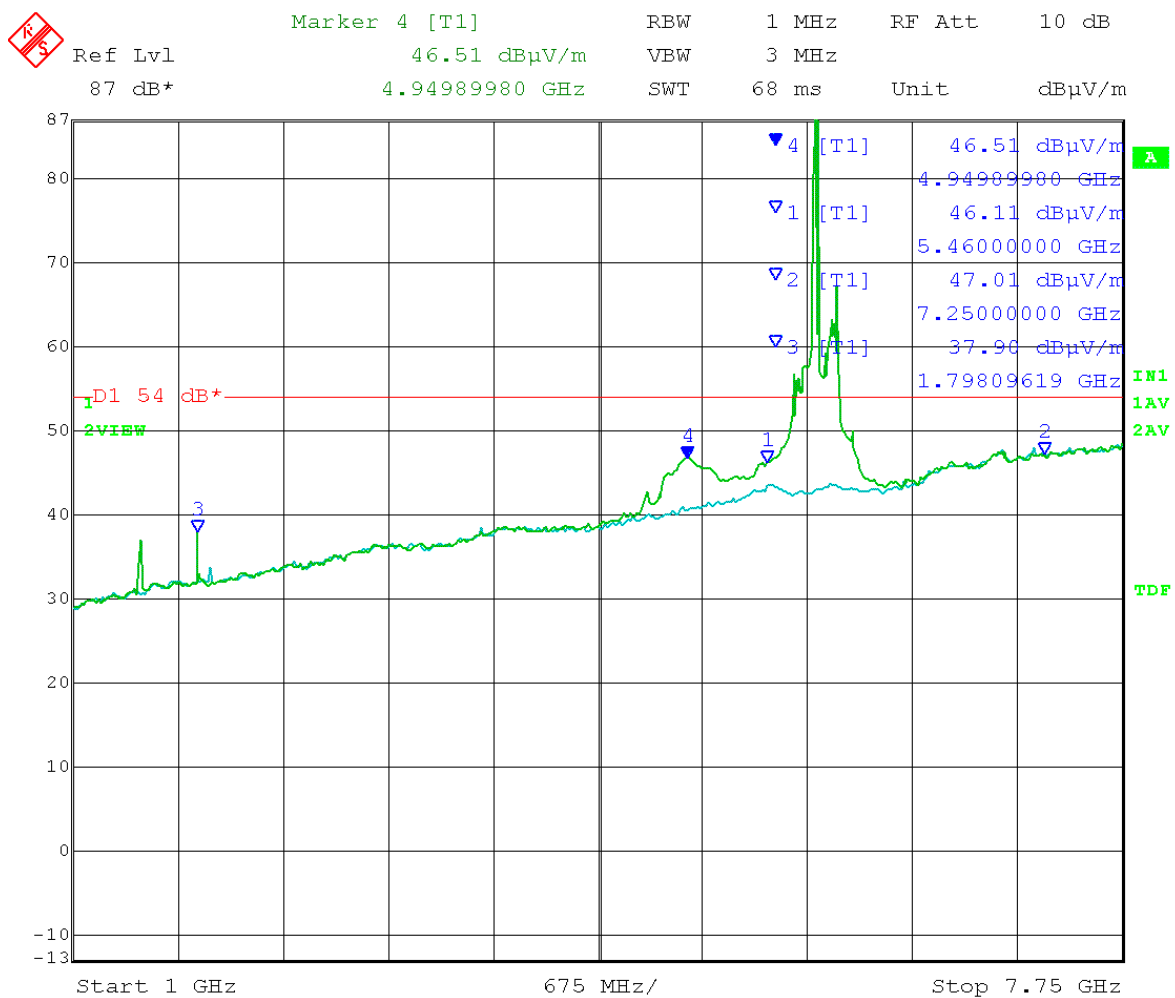
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Vertical



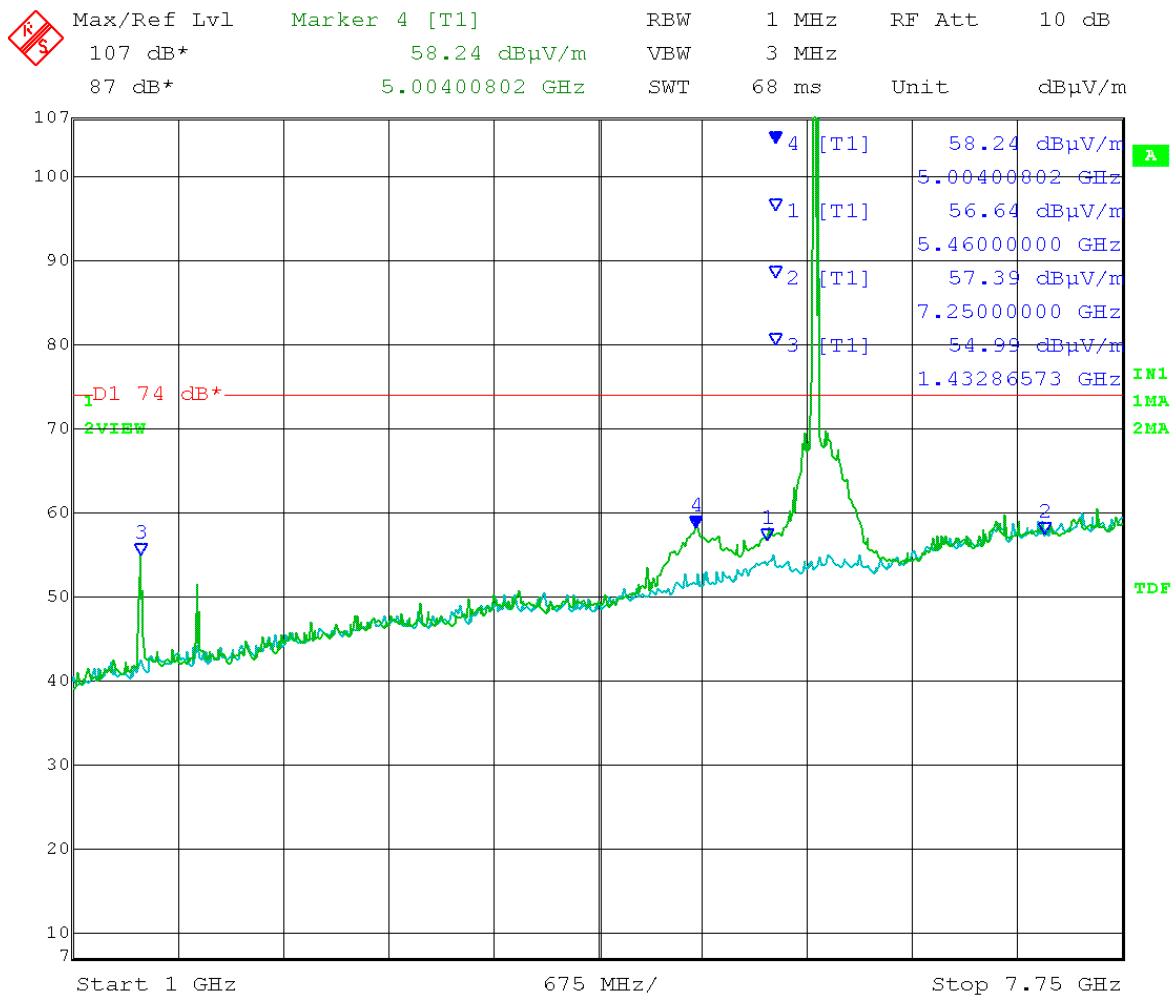
Date: 27.MAR.2014 13:20:29

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



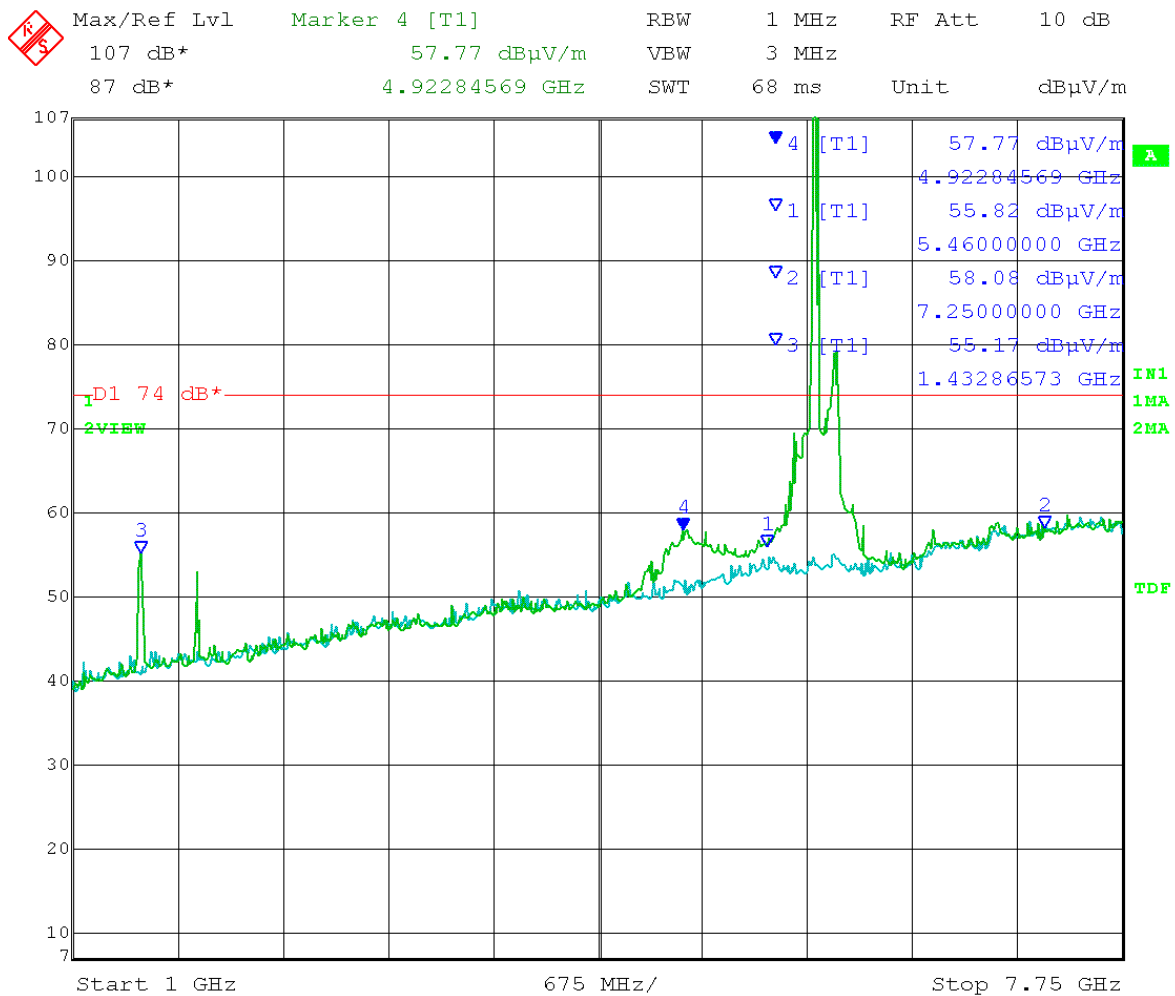
Date: 27.MAR.2014 11:39:14

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 14:13:19

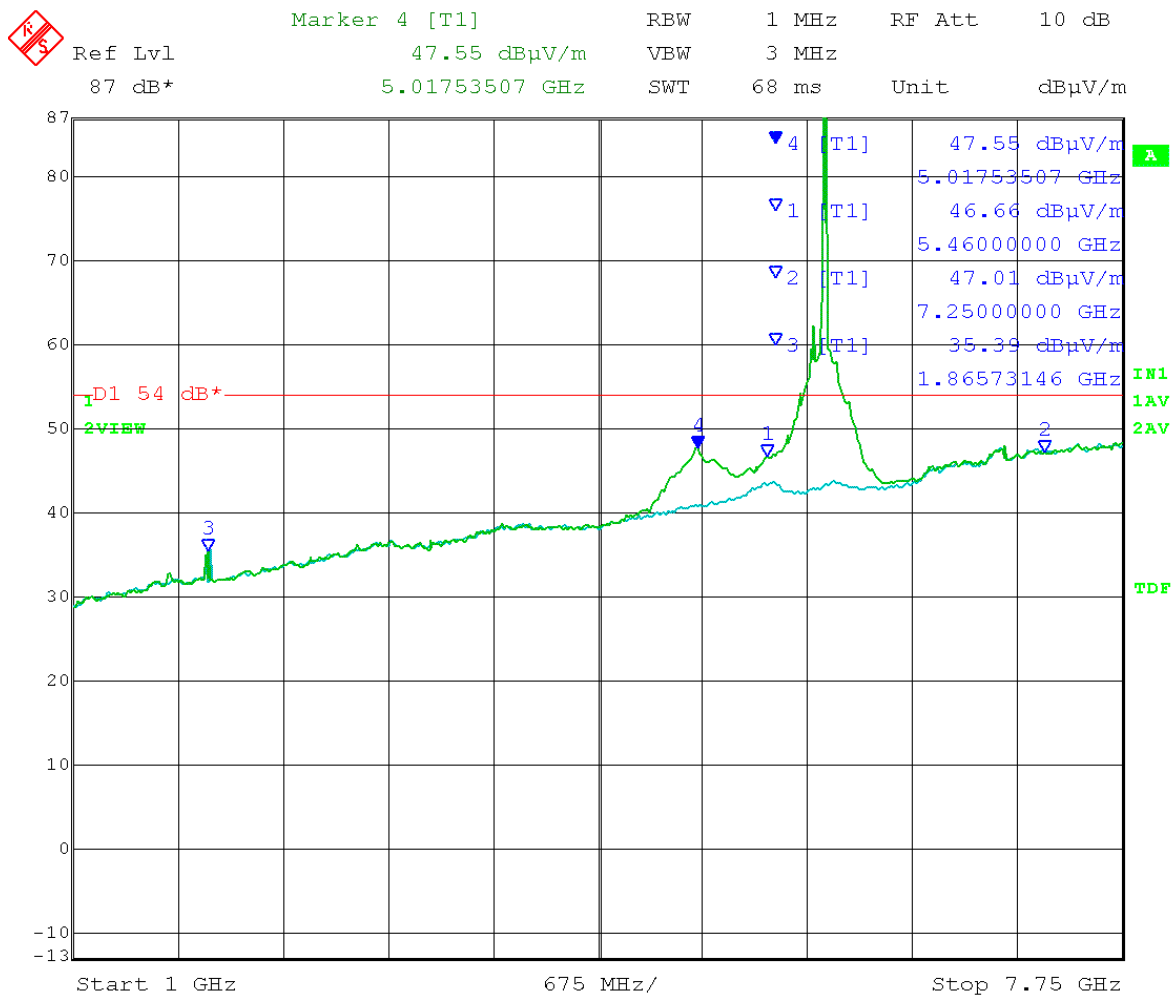
Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 10.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Horizontal



Date: 27.MAR.2014 11:09:13

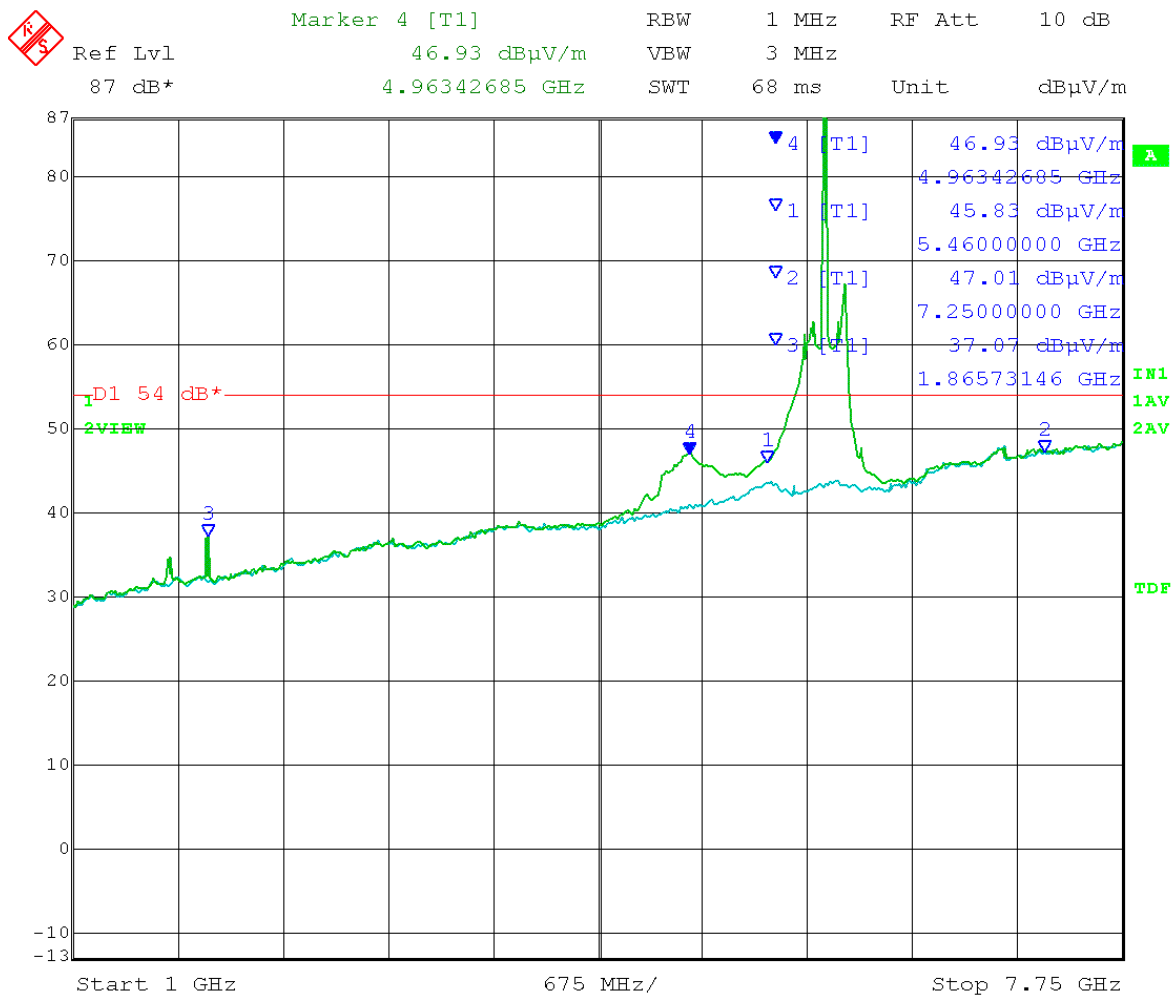
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Vertical



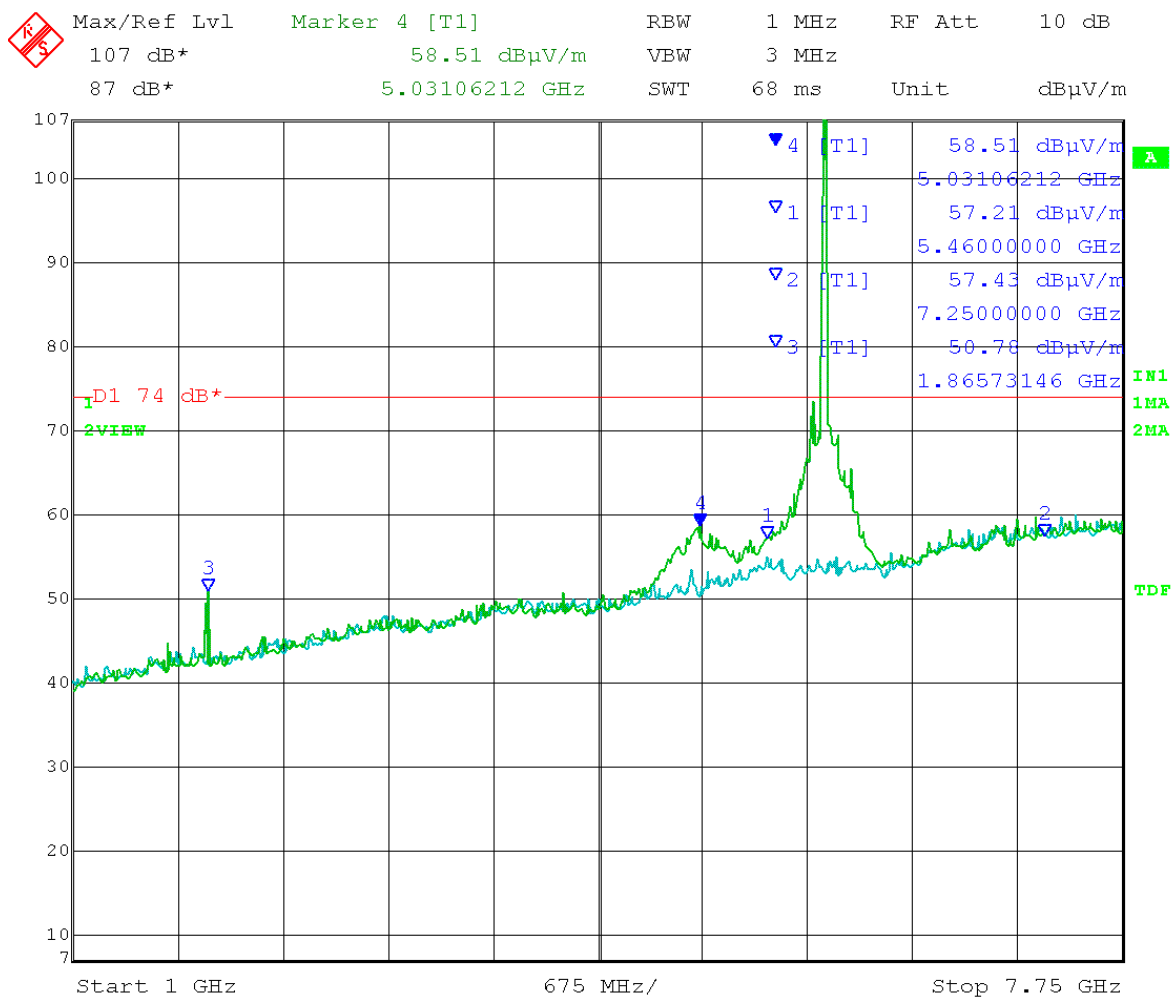
Date: 27.MAR.2014 13:35:05

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



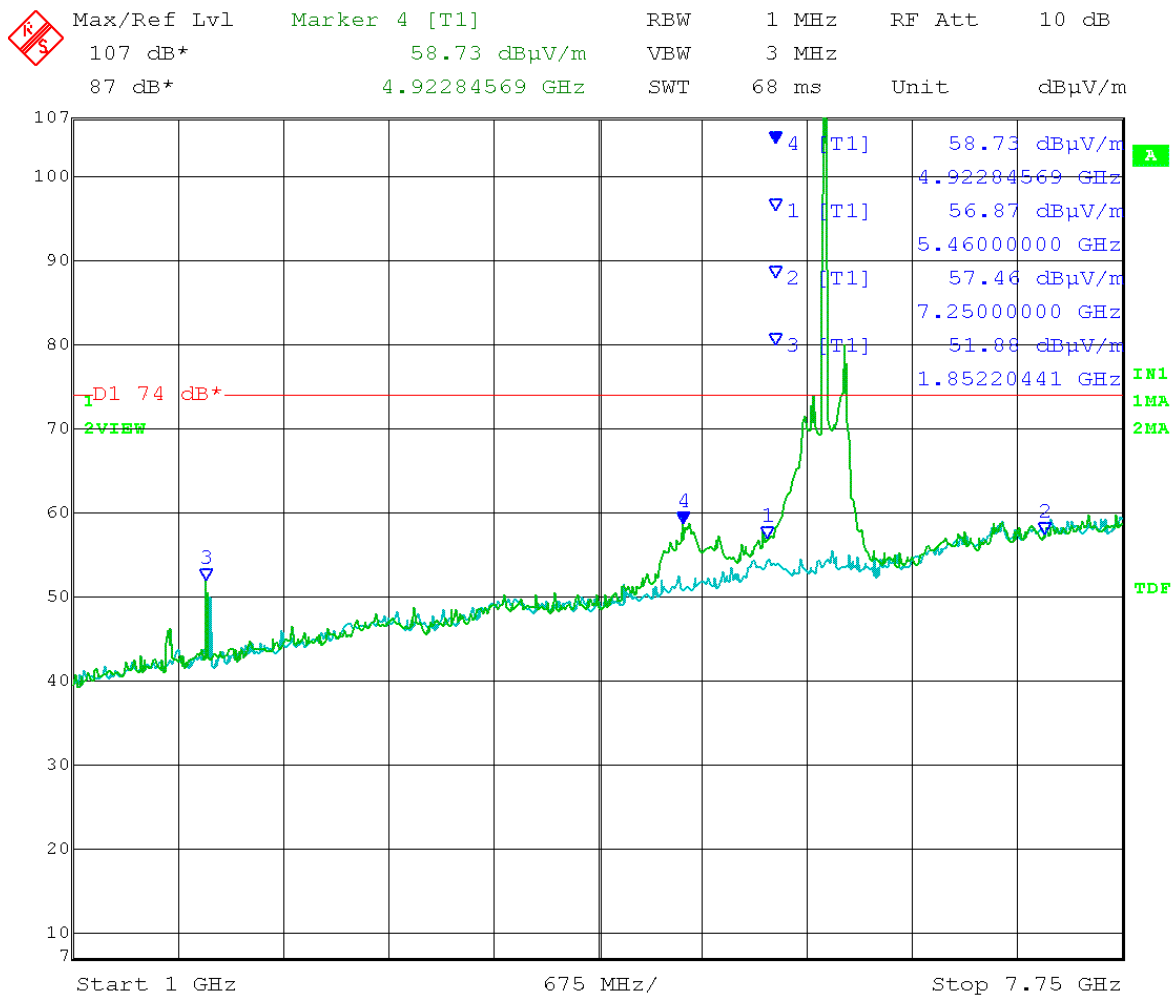
Date: 27.MAR.2014 11:35:49

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
Operator: Craig B
Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 10.5
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Vertical



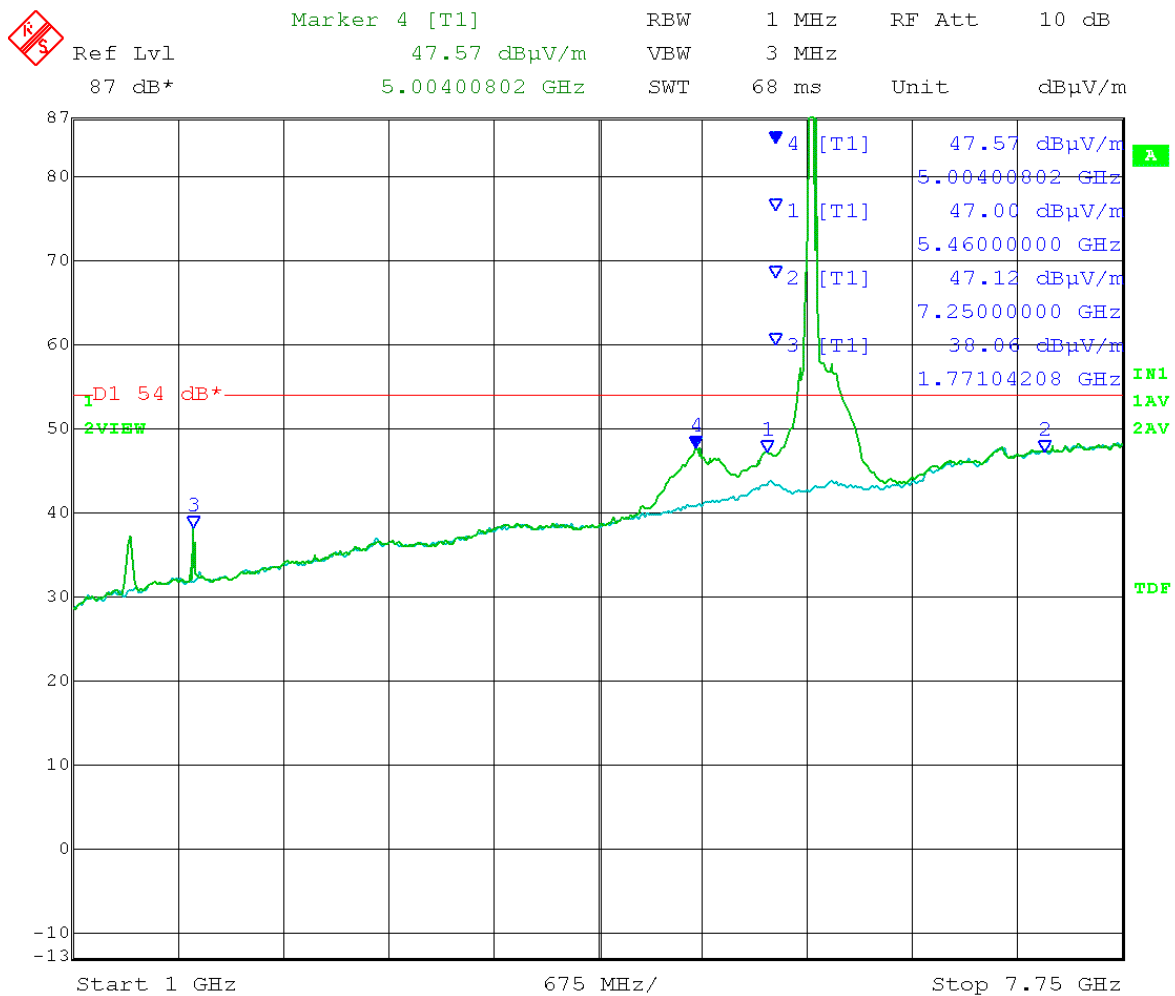
Date: 27.MAR.2014 14:01:29

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 11:23:27

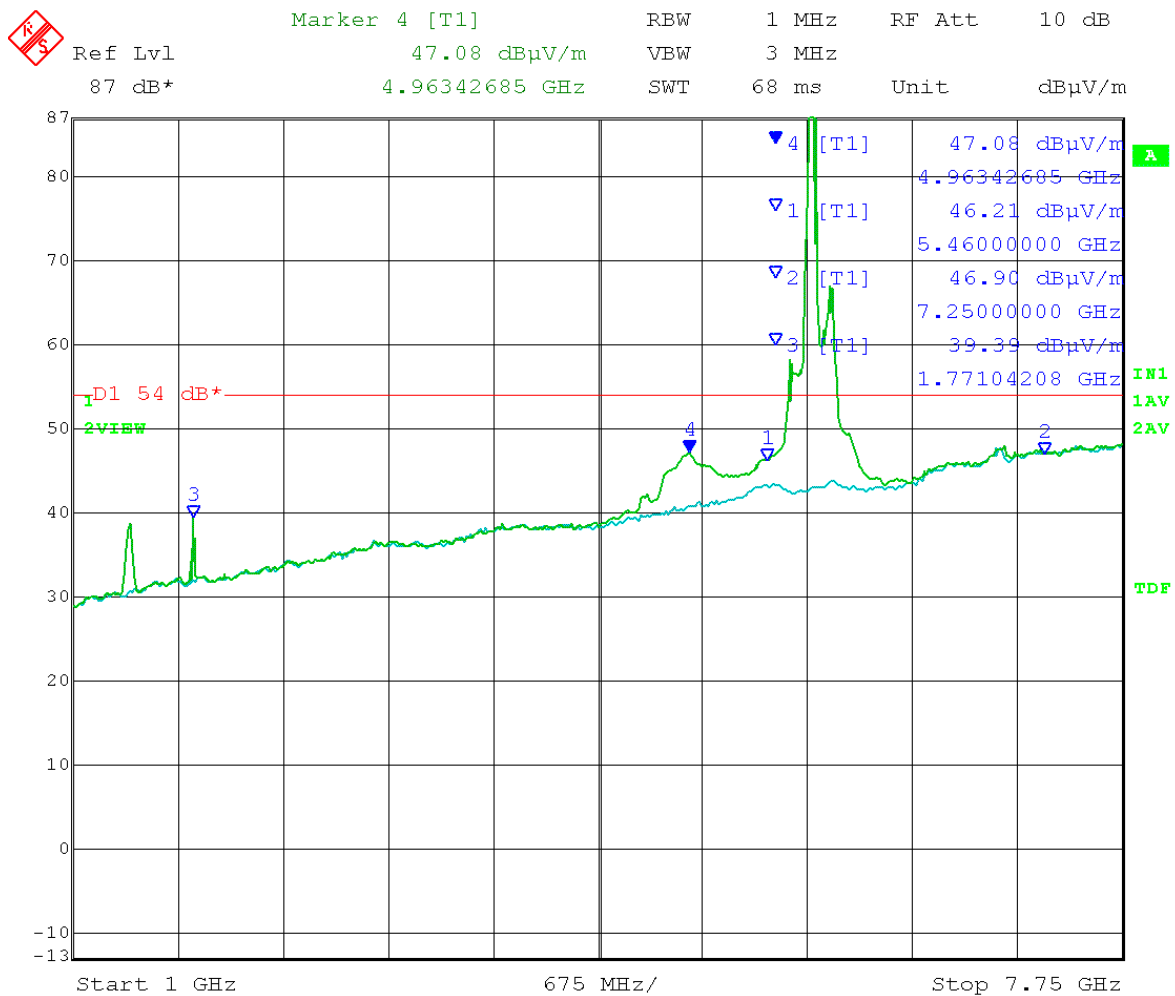
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Vertical



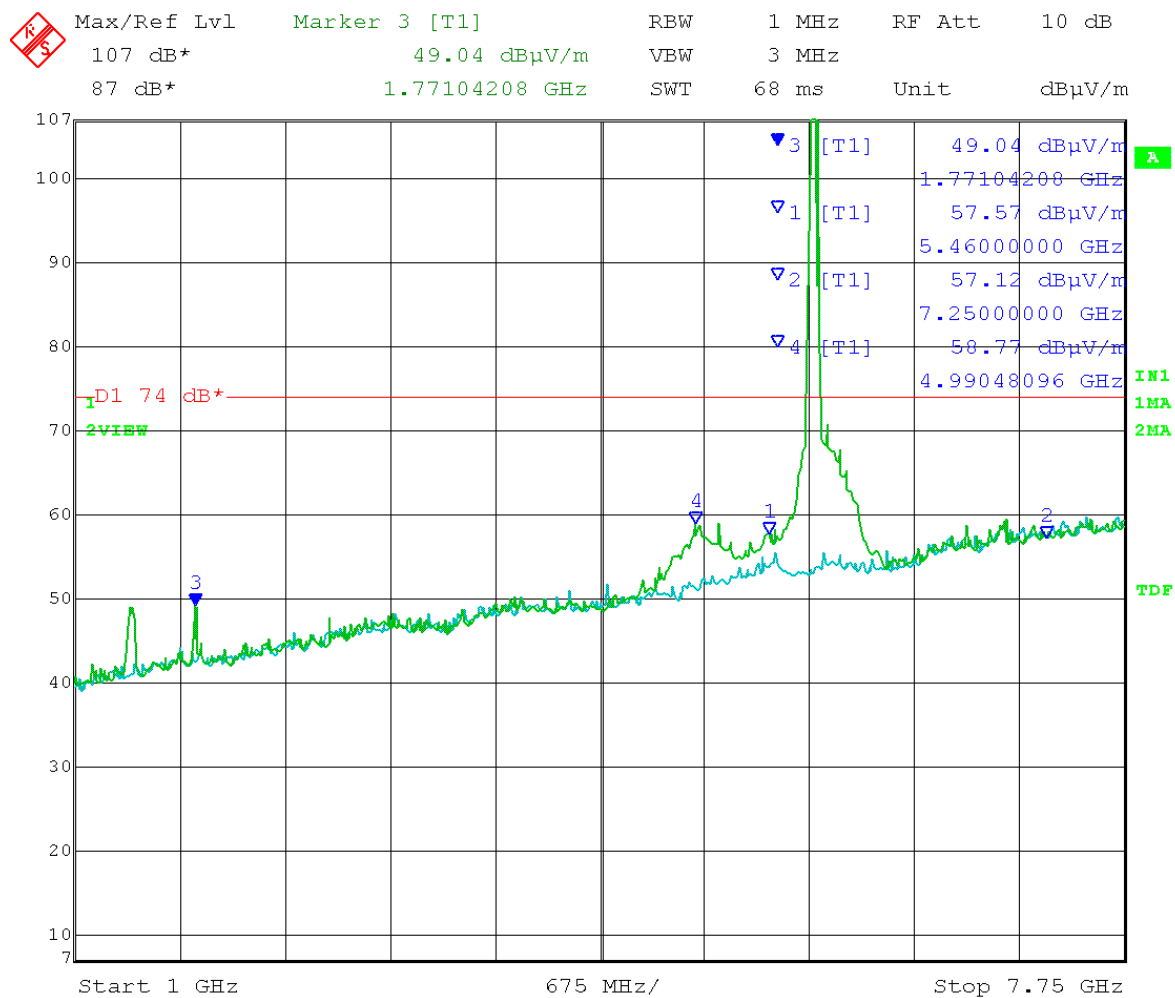
Date: 27.MAR.2014 13:39:01

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



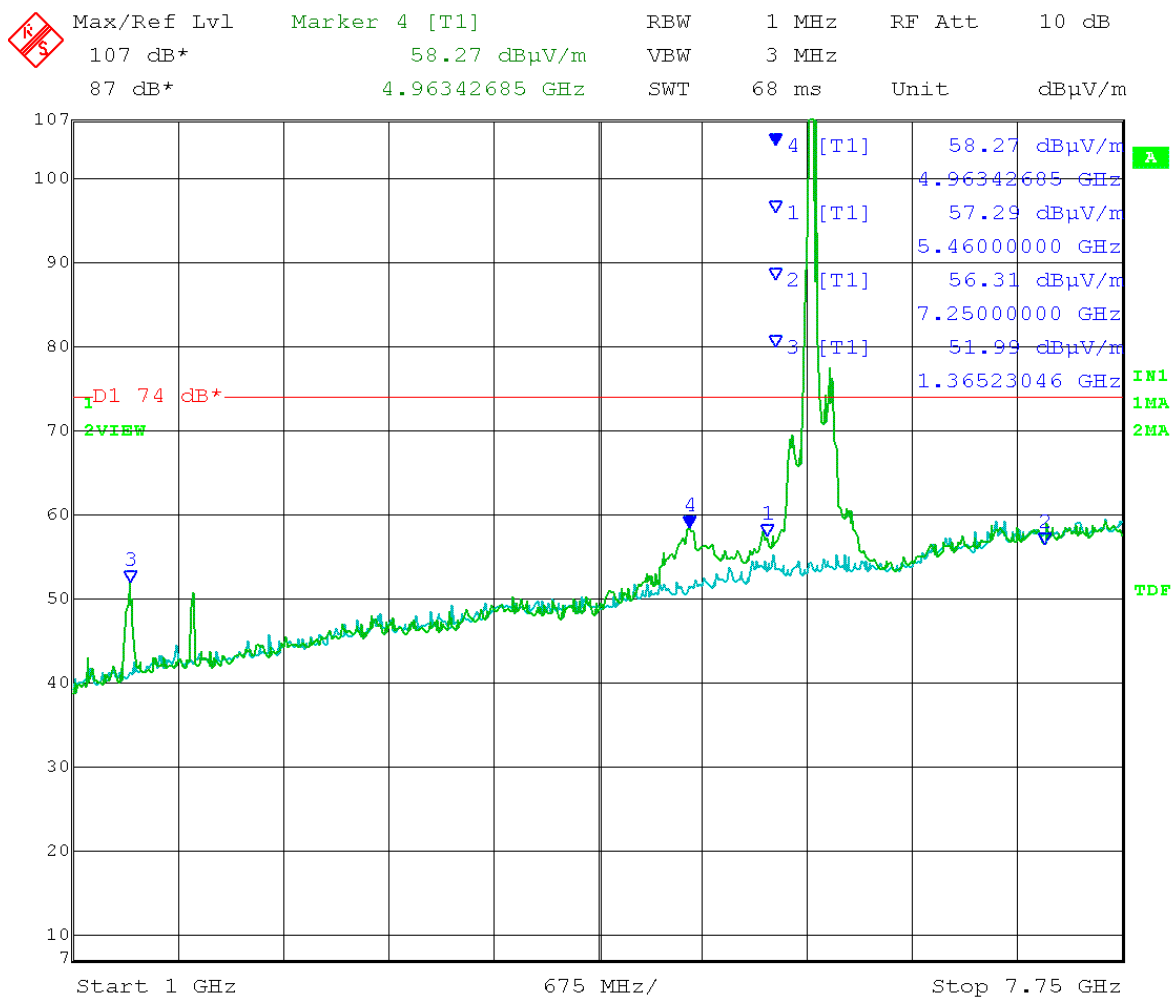
Date: 27.MAR.2014 11:32:16

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Low Channel Transmit = 5.750 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



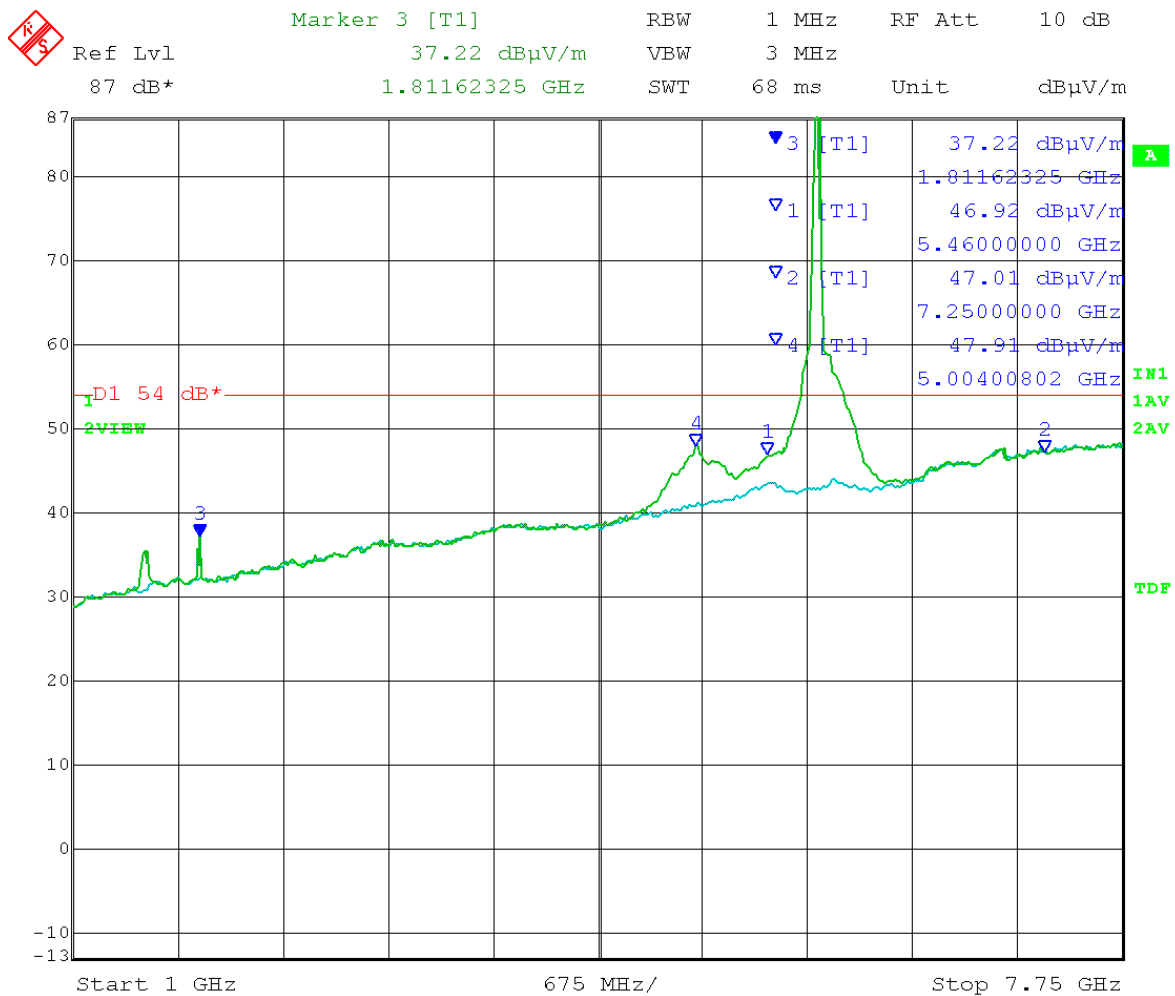
Date: 27.MAR.2014 13:57:02

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal



Date: 27.MAR.2014 11:27:23

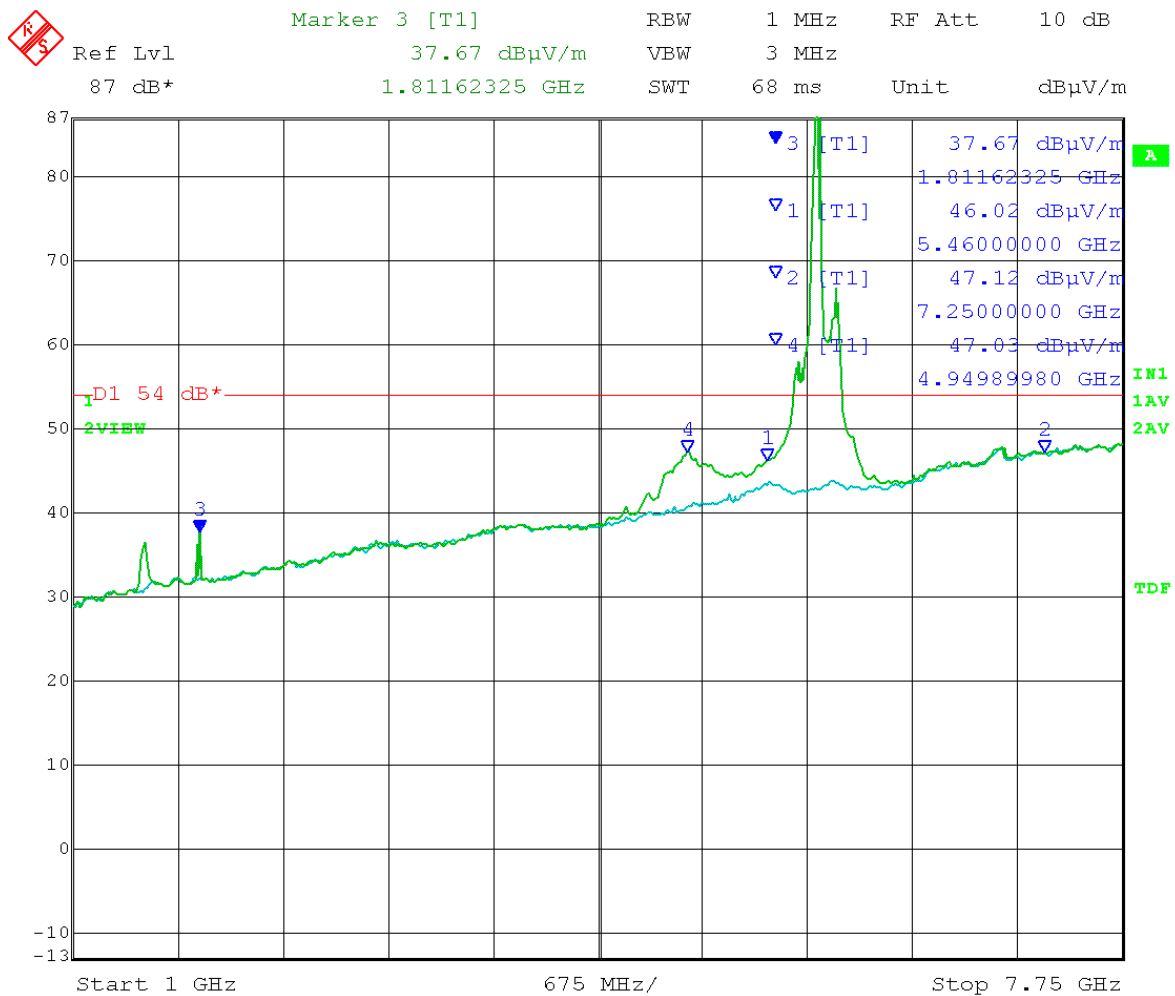
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Vertical



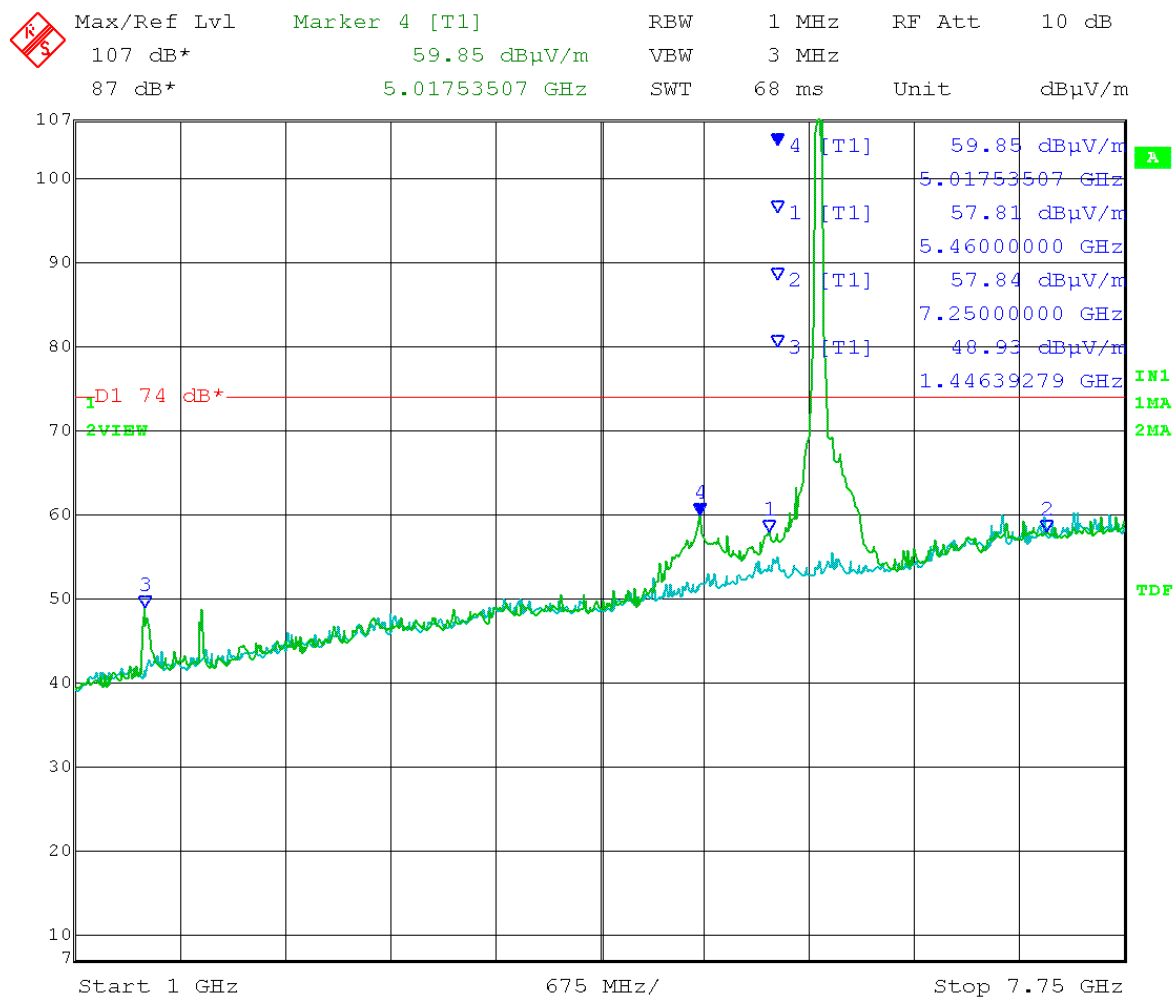
Date: 27.MAR.2014 13:40:26

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



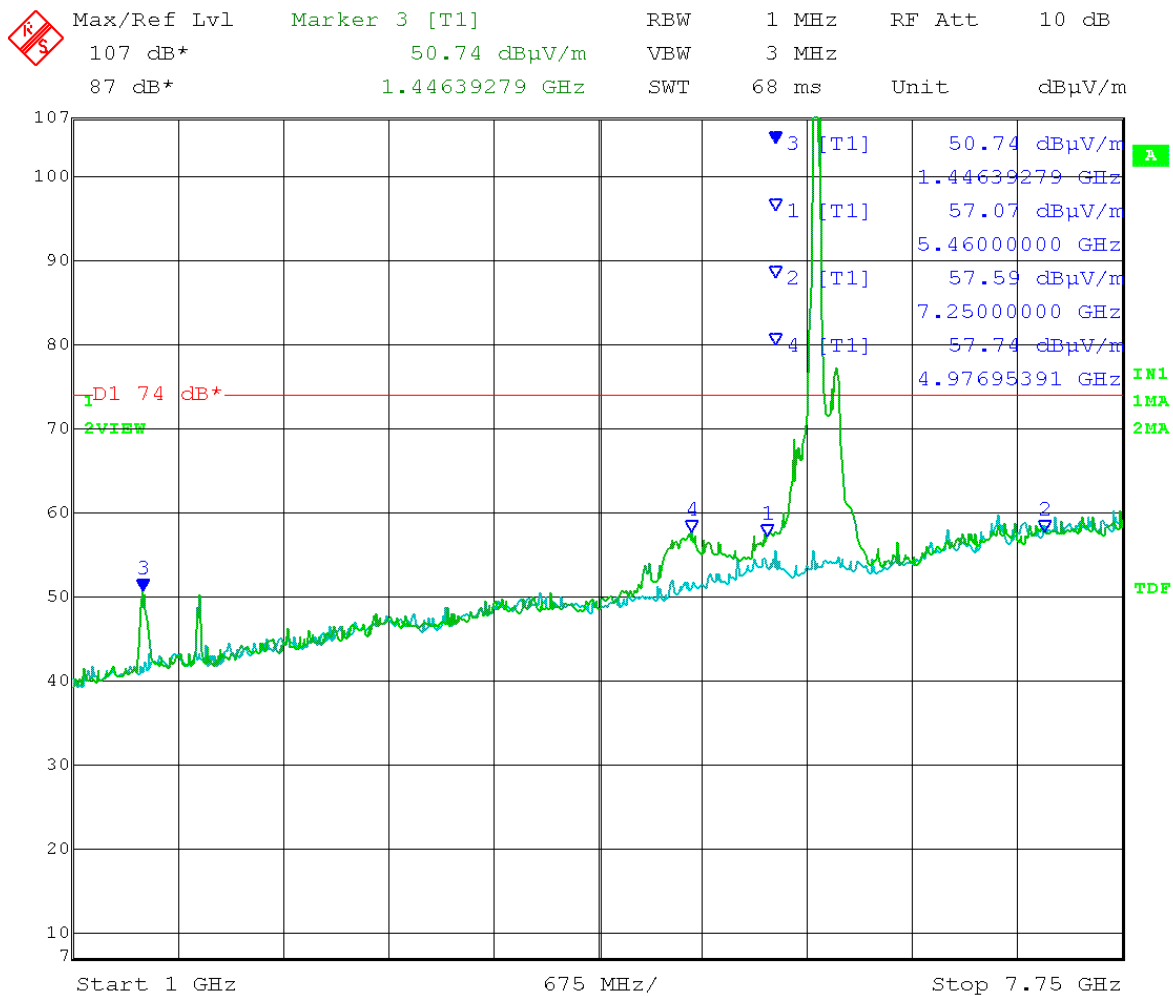
Date: 27.MAR.2014 11:30:36

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:55:06

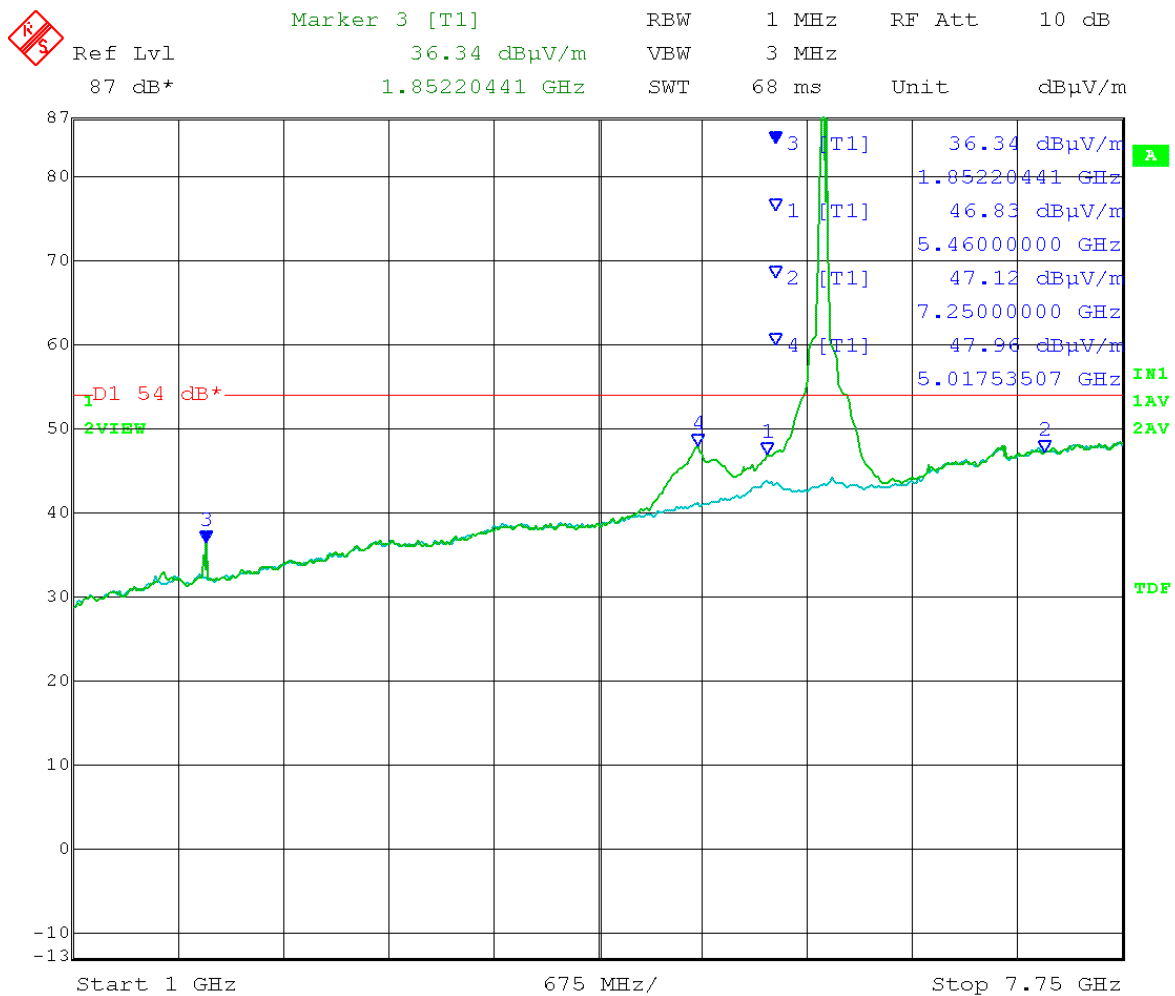
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

Polarization = Horizontal

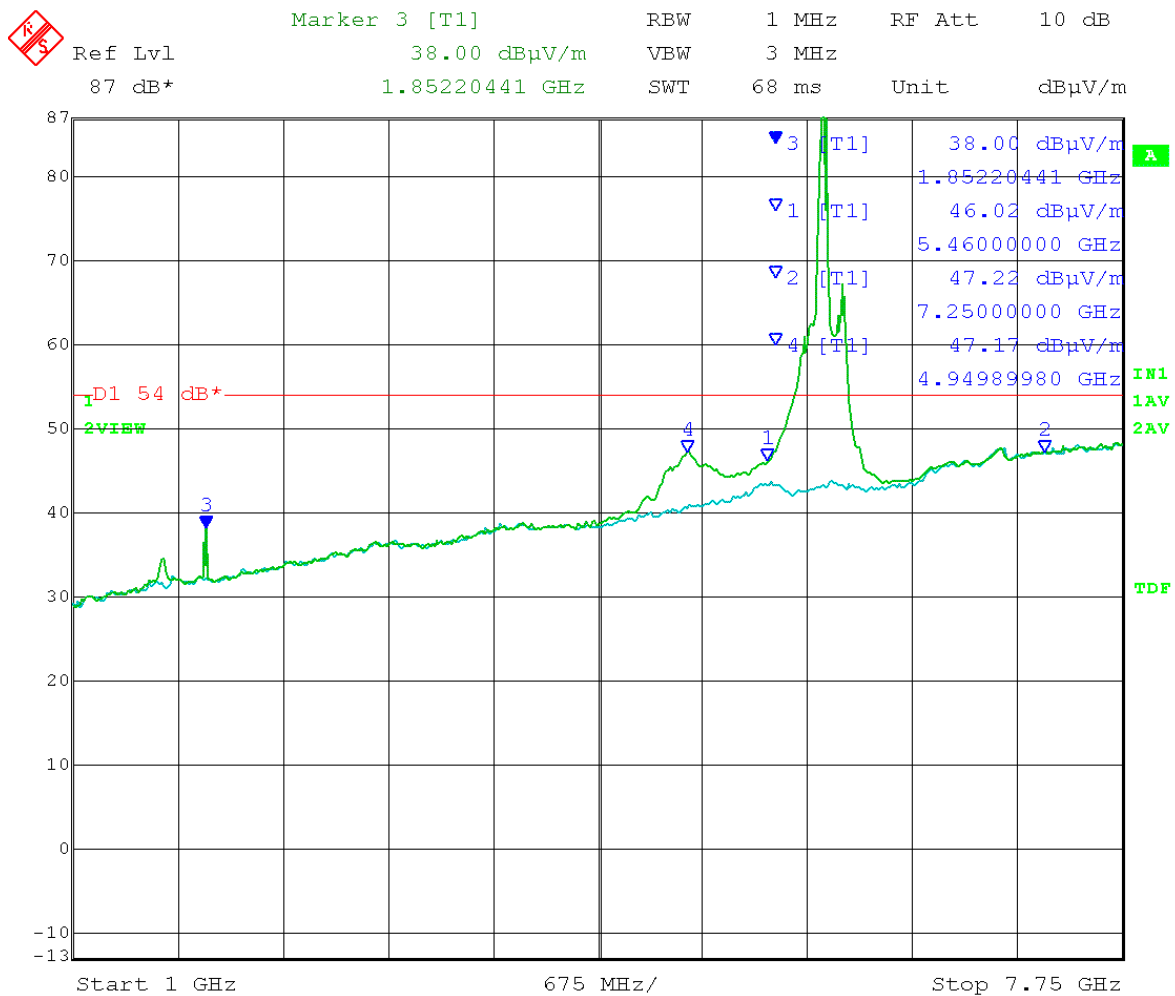


Date: 27.MAR.2014 11:20:23

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5
 Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Vertical

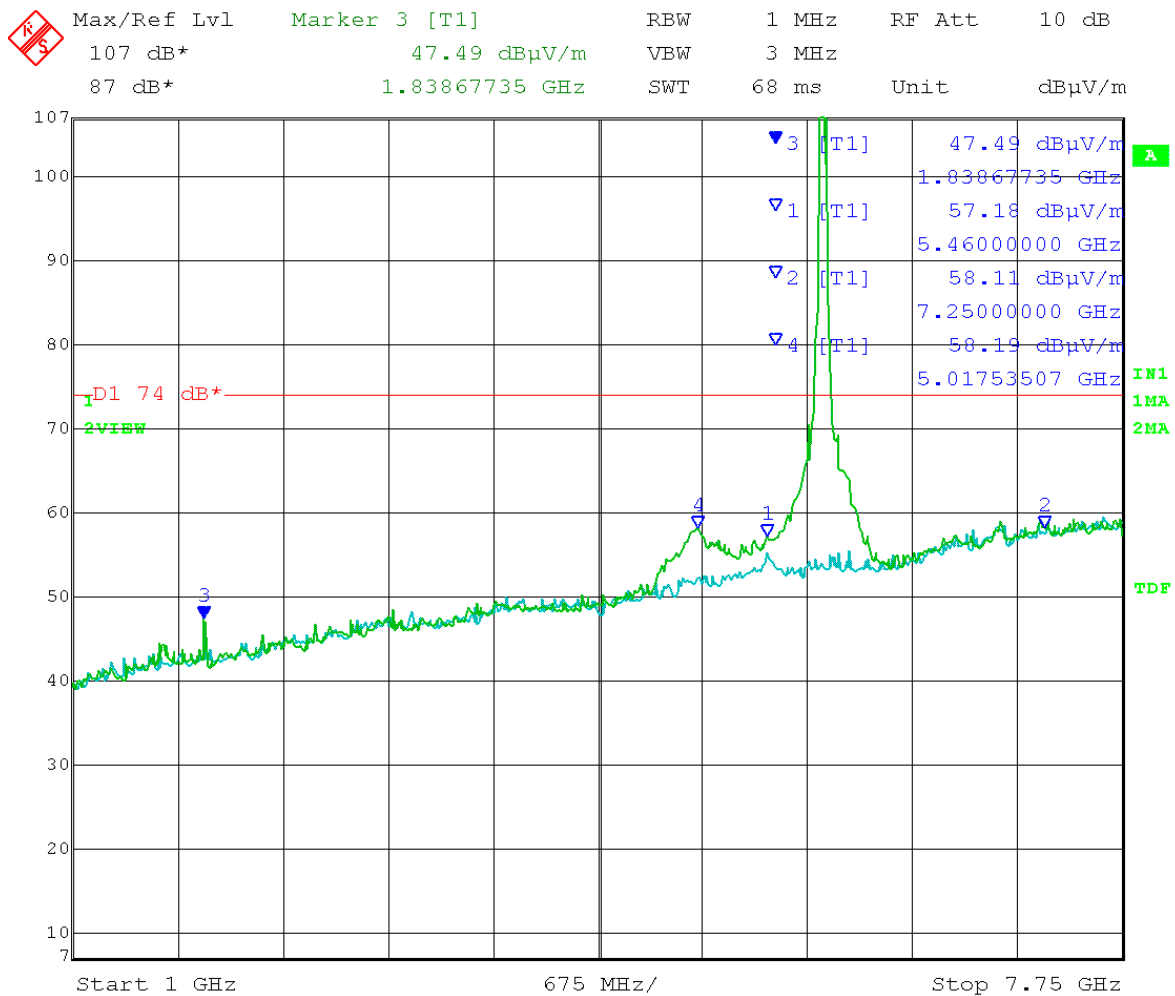


Date: 27.MAR.2014 13:37:22

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5
 Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal



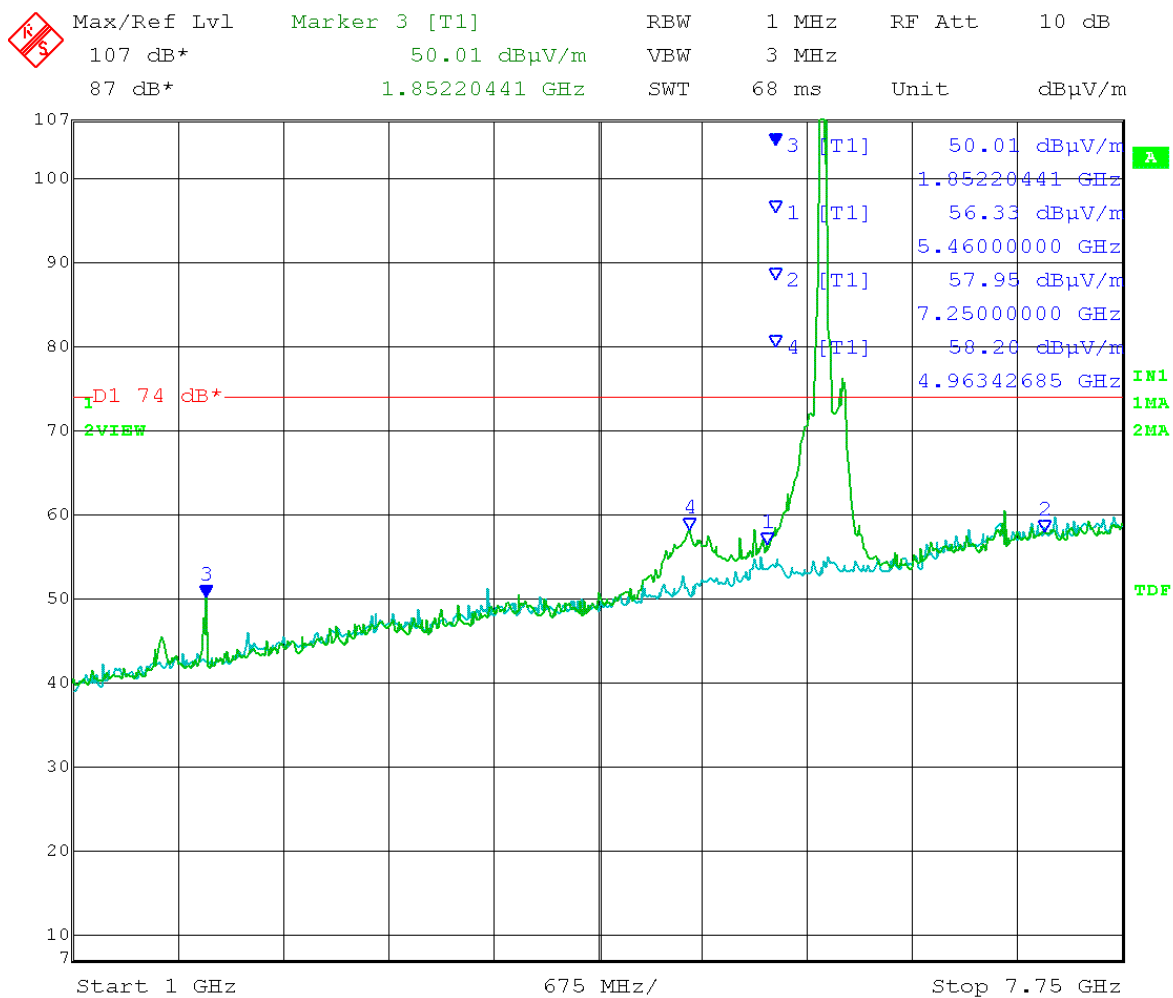
Date: 27.MAR.2014 11:33:52

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 23 dBi Panel antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 10.5
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 10.5

Blue trace = EUT transmit turned OFF

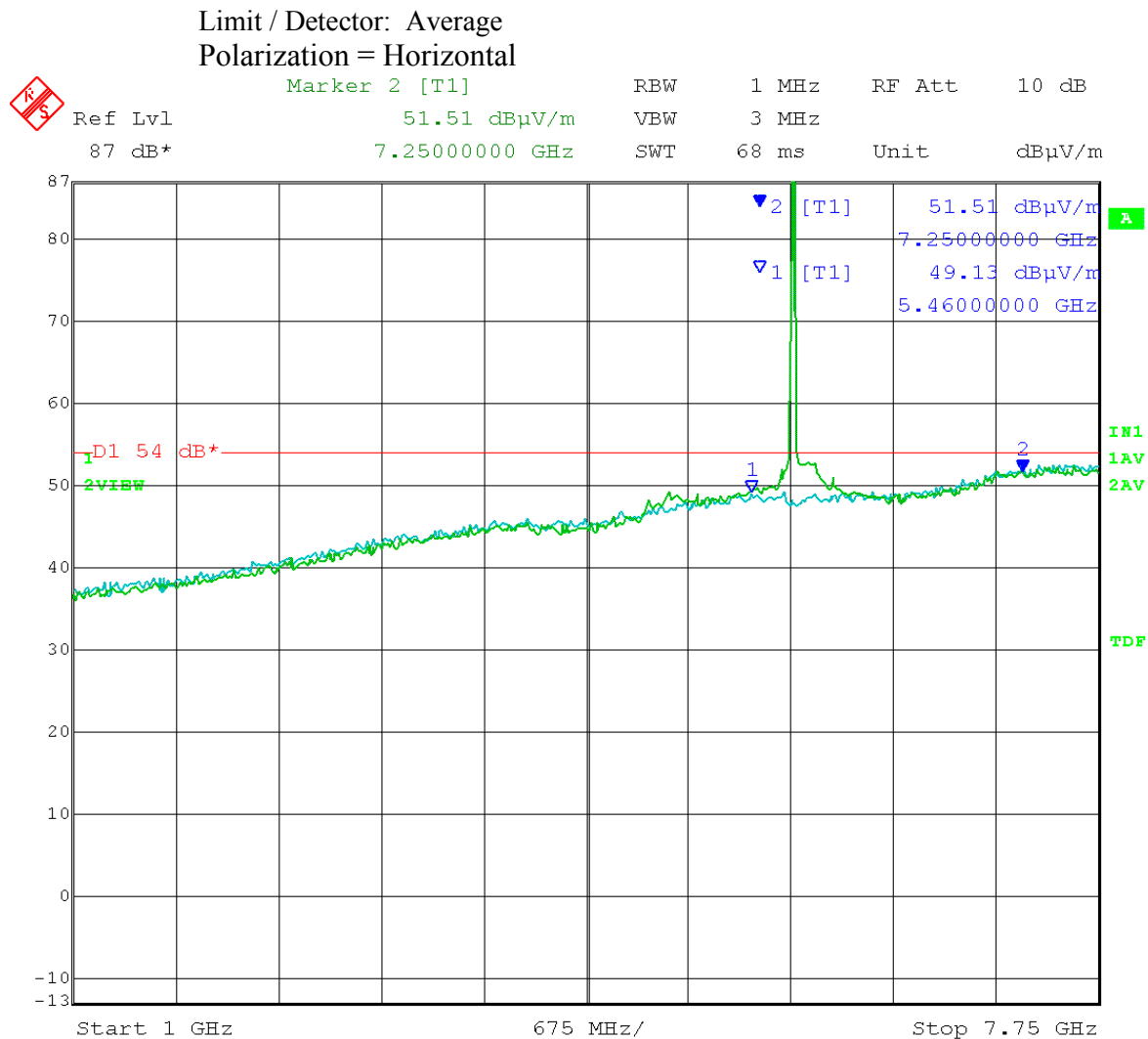
Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 13:58:48

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF



Date: 26.MAR.2014 12:47:51

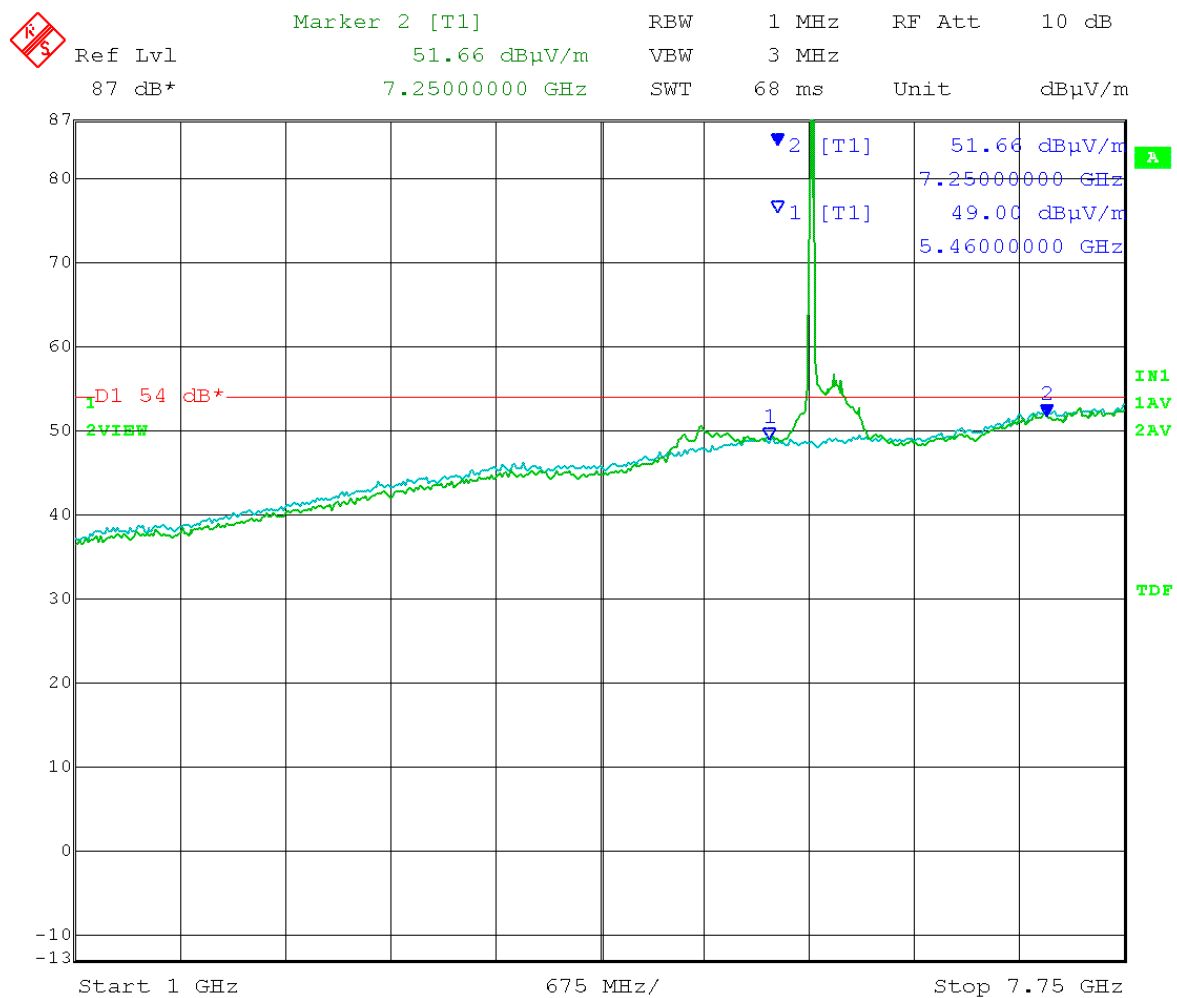
Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0

Blue trace = EUT transmit turned OFF

Limit / Detector: Average

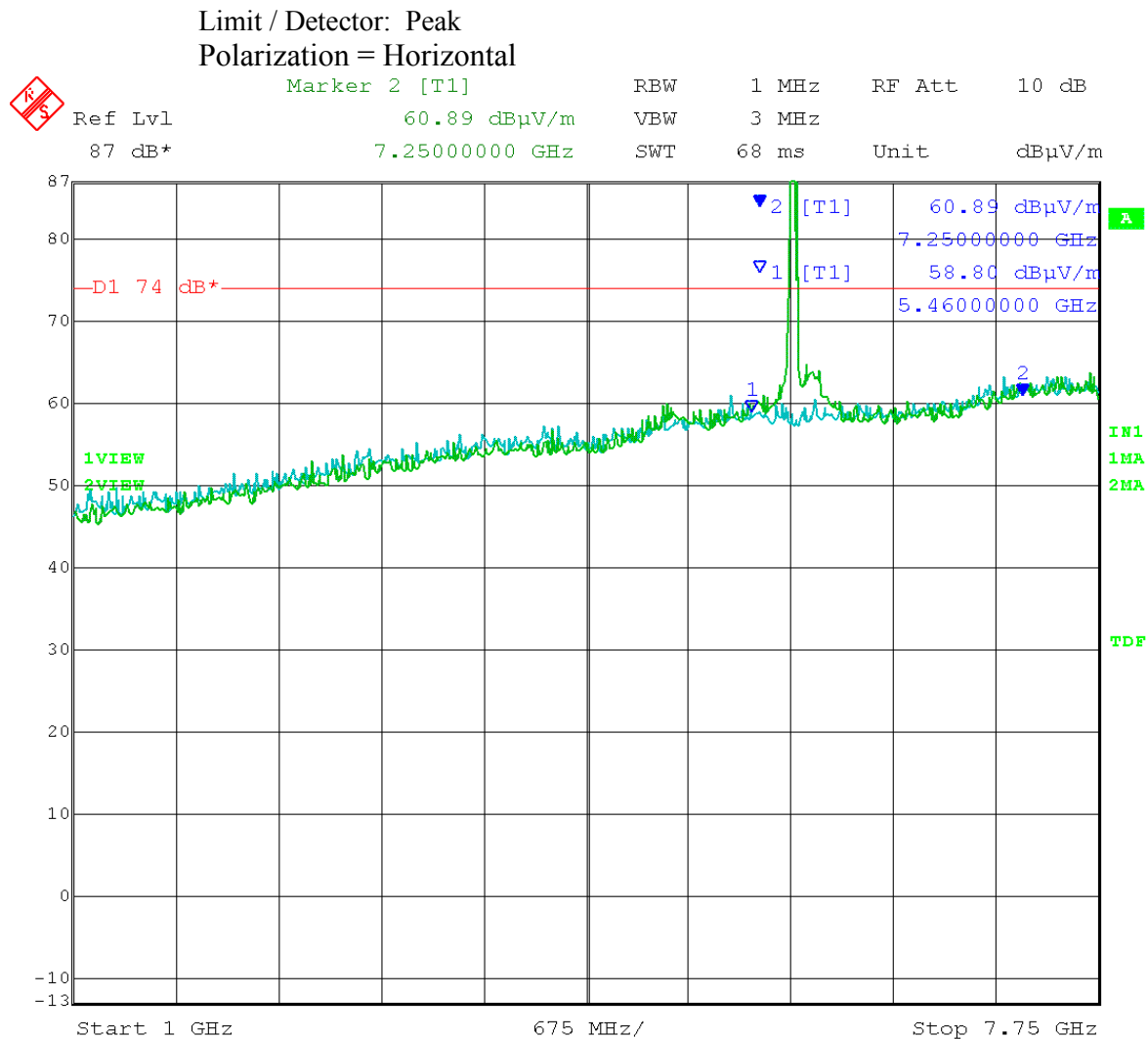
Polarization = Vertical



Date: 27.MAR.2014 08:44:54

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

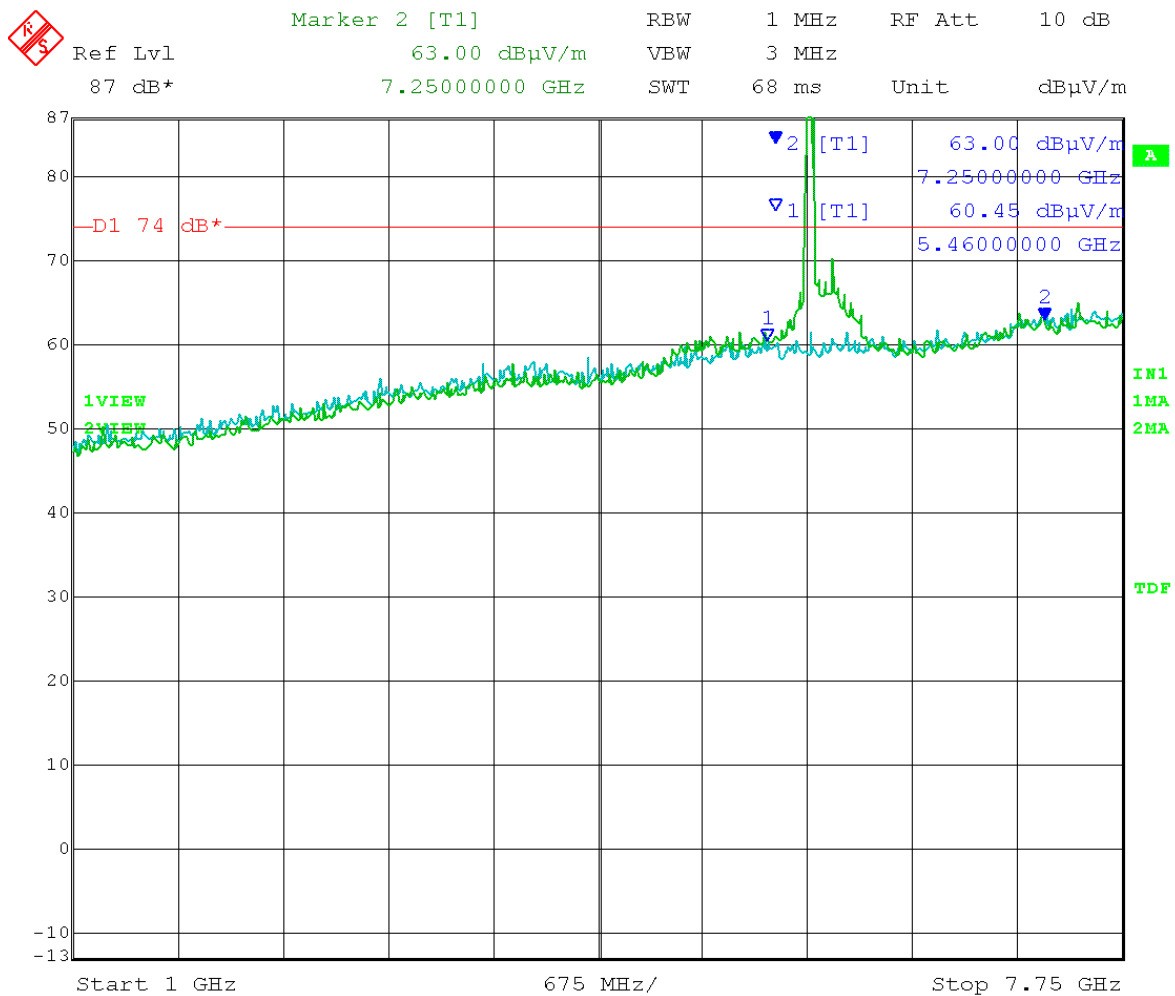


Date: 26.MAR.2014 13:16:54

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.740 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

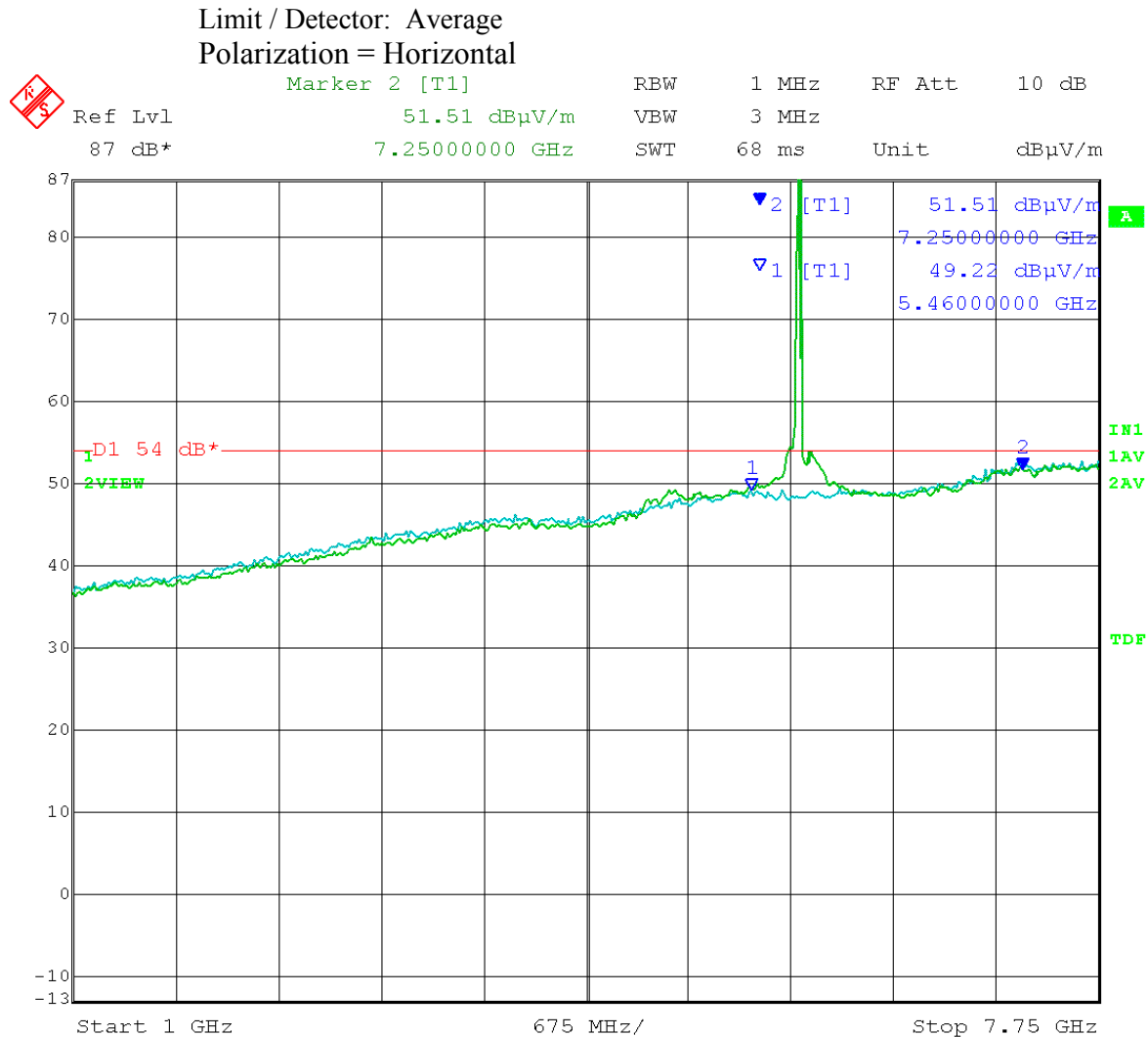
Limit / Detector: Peak
Polarization = Vertical



Date: 27.MAR.2014 09:11:14

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Mid Channel Transmit = 5.775 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

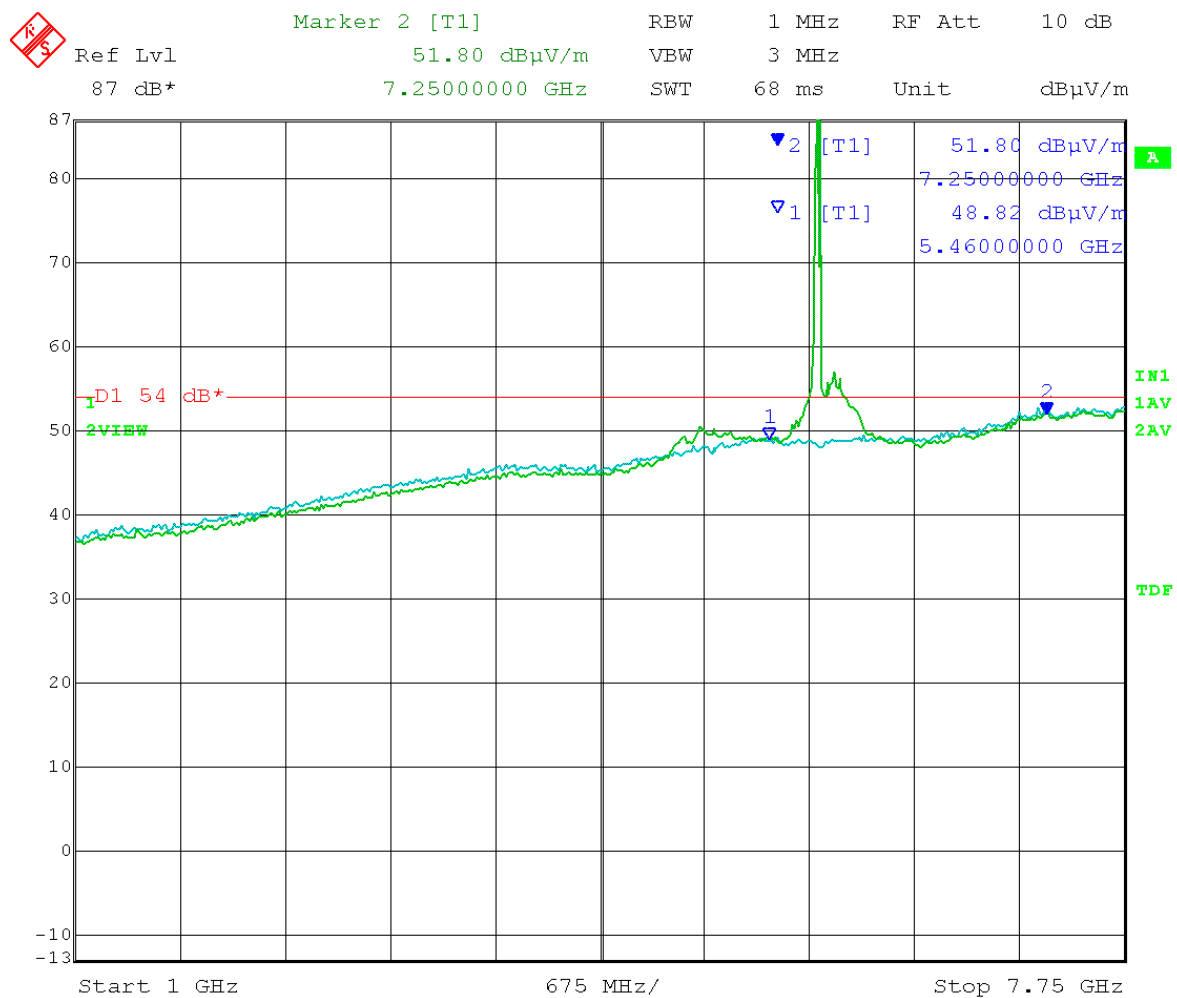


Date: 26.MAR.2014 12:51:55

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

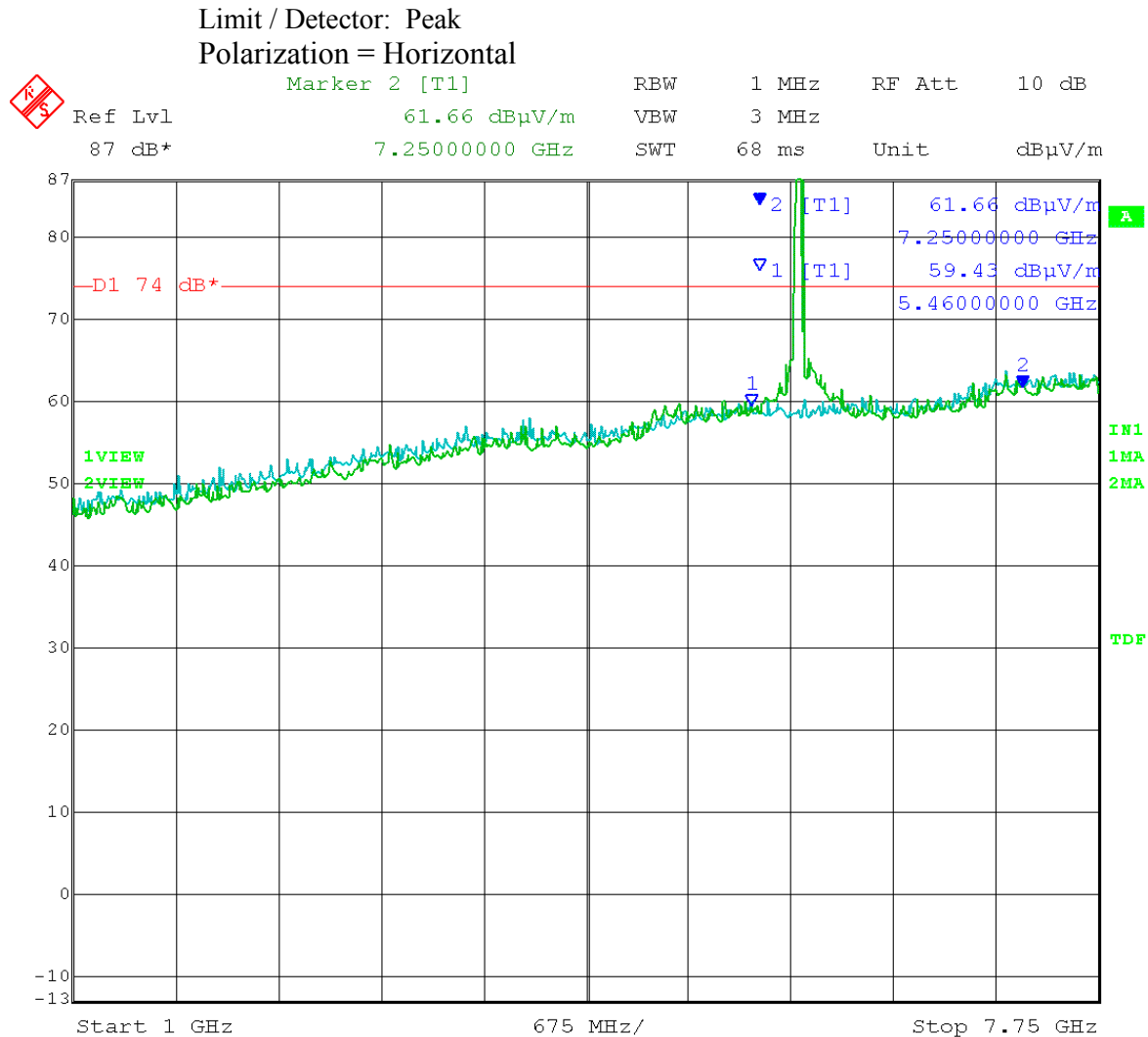
Limit / Detector: Average
 Polarization = Vertical



Date: 27.MAR.2014 08:46:17

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.775 GHz** Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

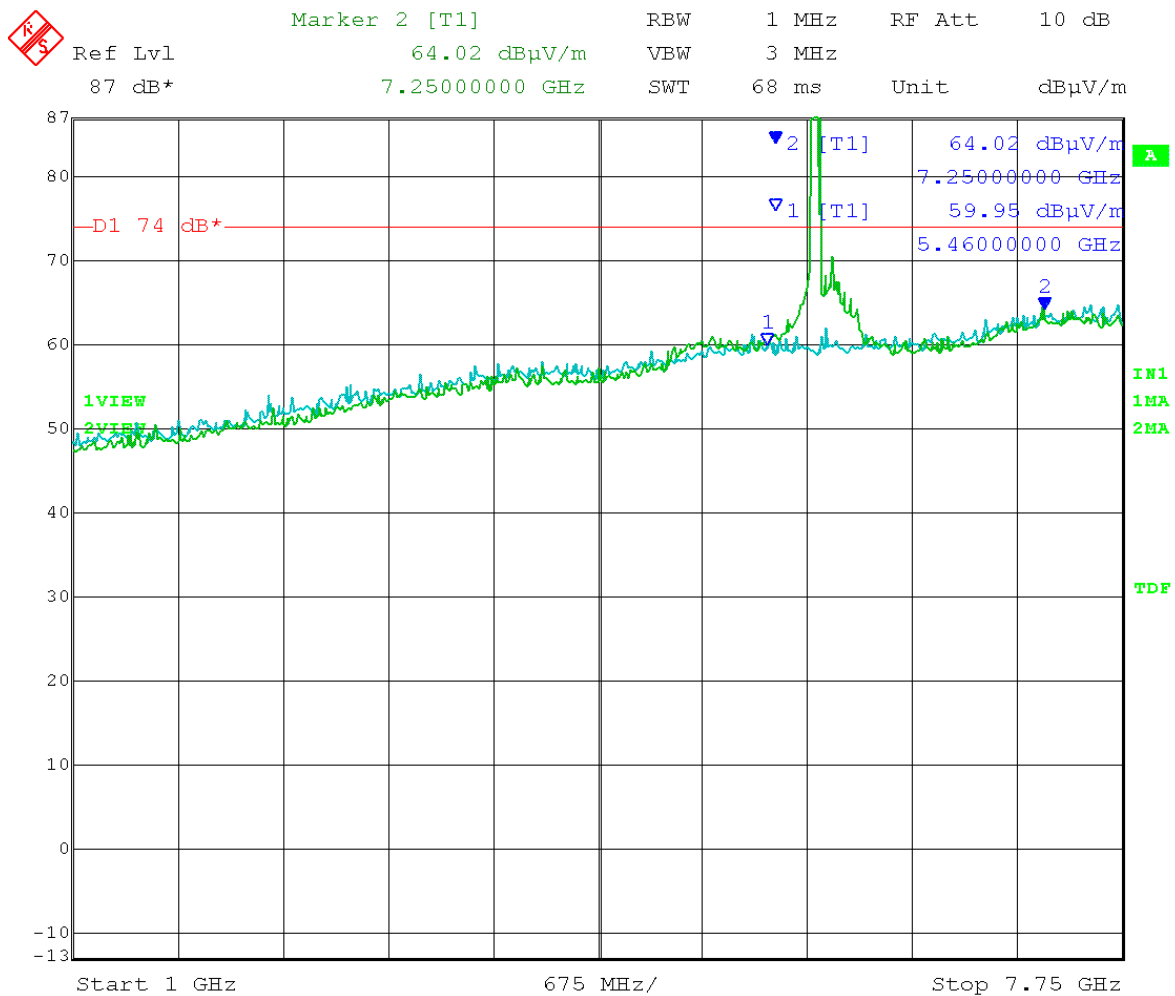


Date: 26.MAR.2014 13:18:38

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: Mid Channel Transmit = 5.775 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Vertical

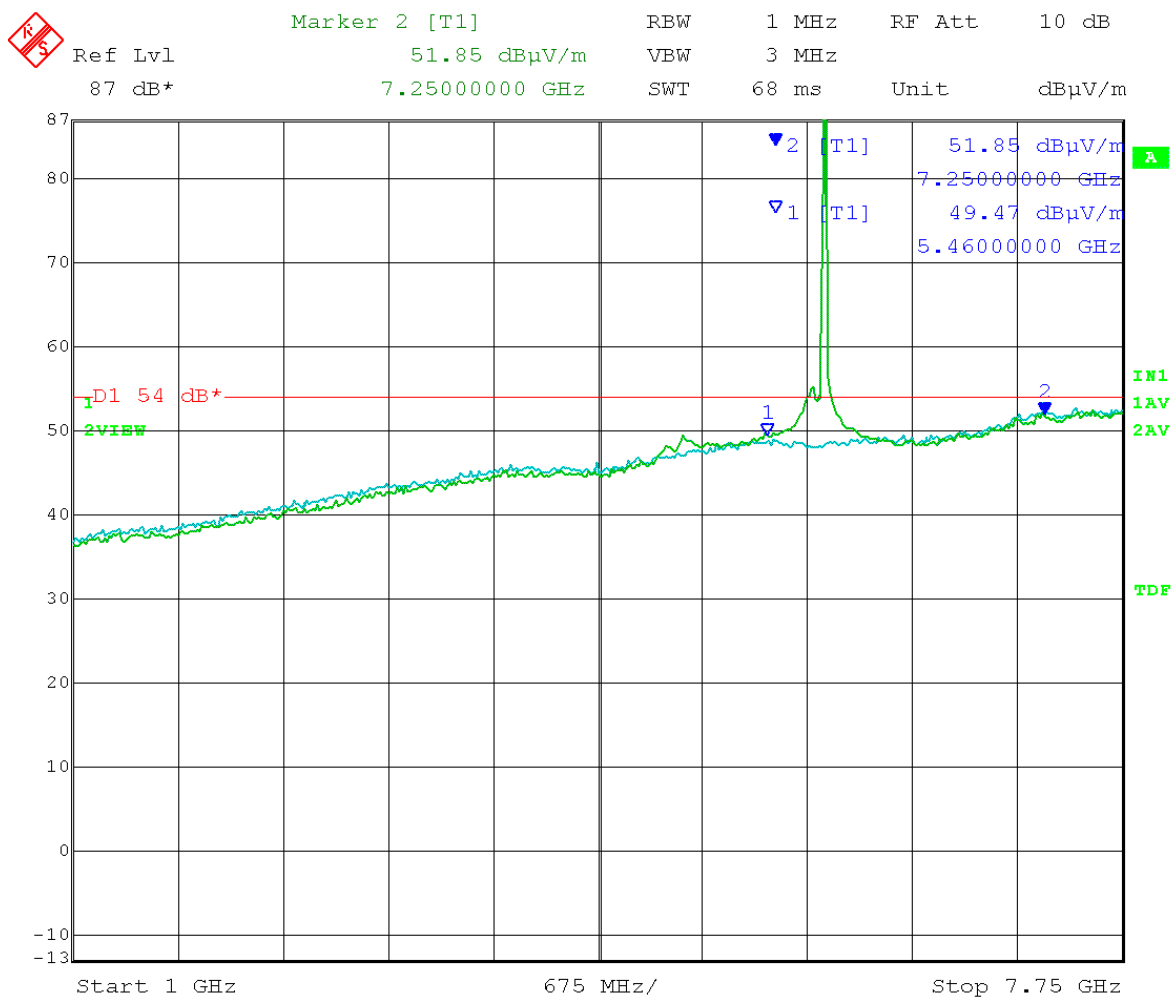


Date: 27.MAR.2014 09:09:28

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal

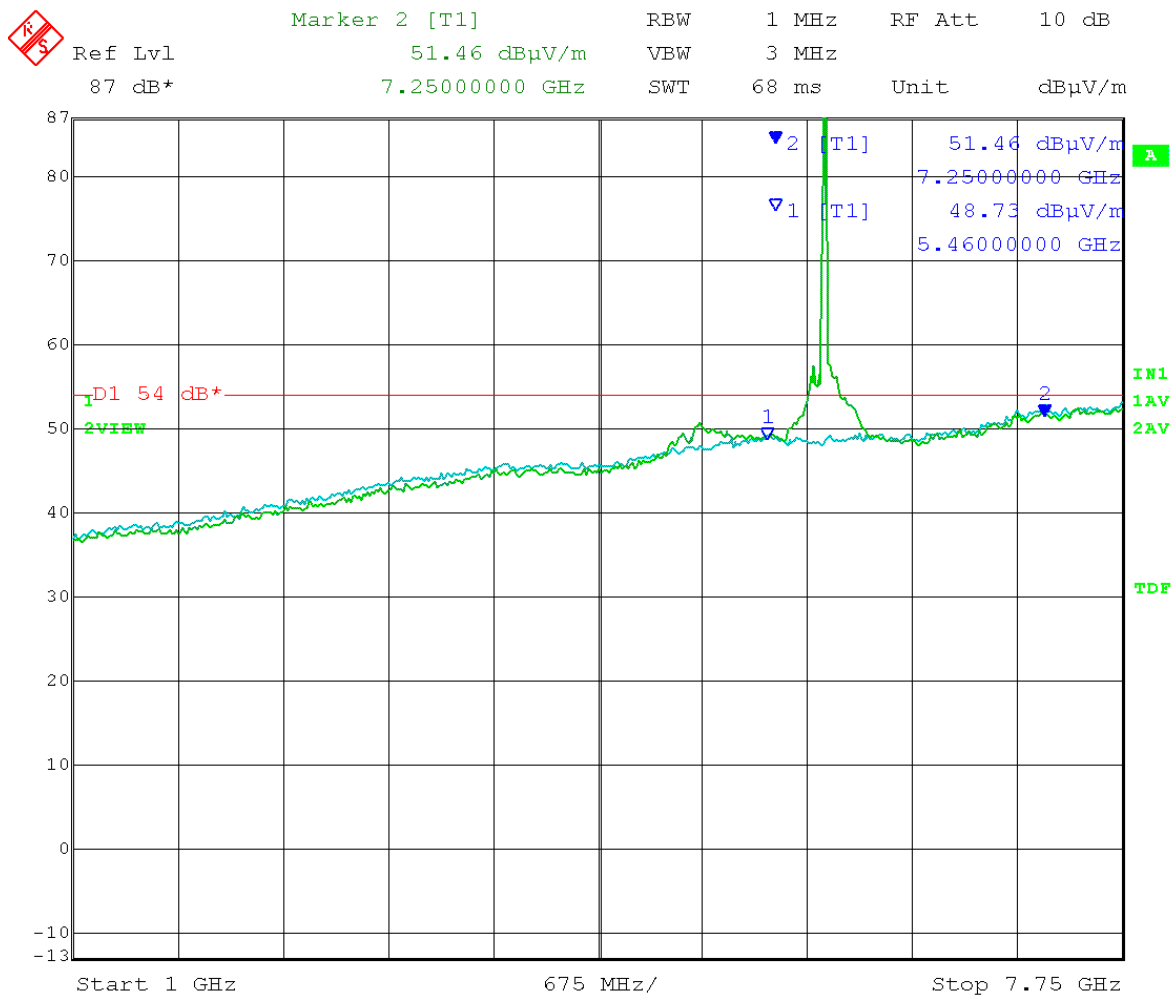


Date: 26.MAR.2014 12:59:18

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

Limit / Detector: Average
Polarization = Vertical

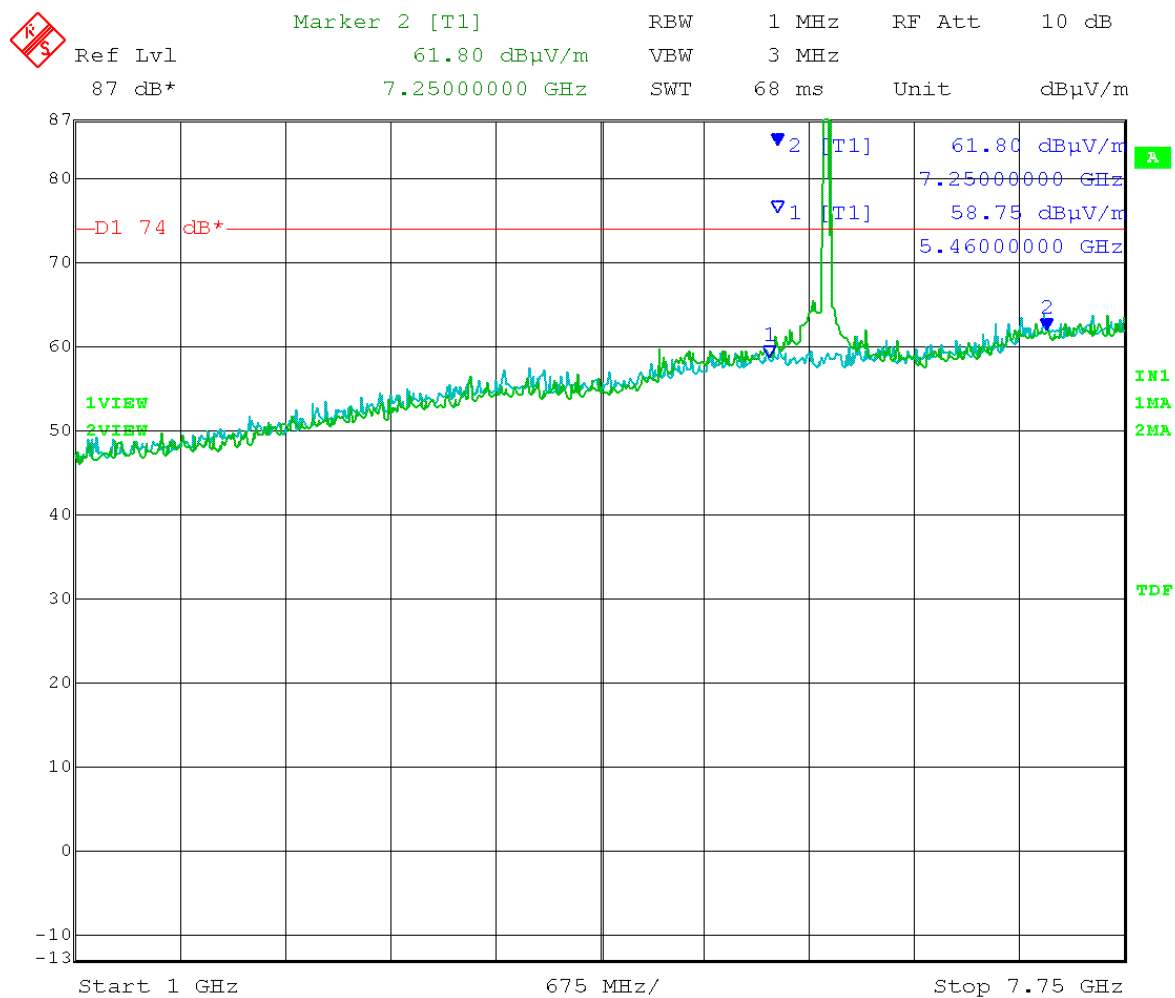


Date: 27.MAR.2014 08:43:22

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
 20 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal

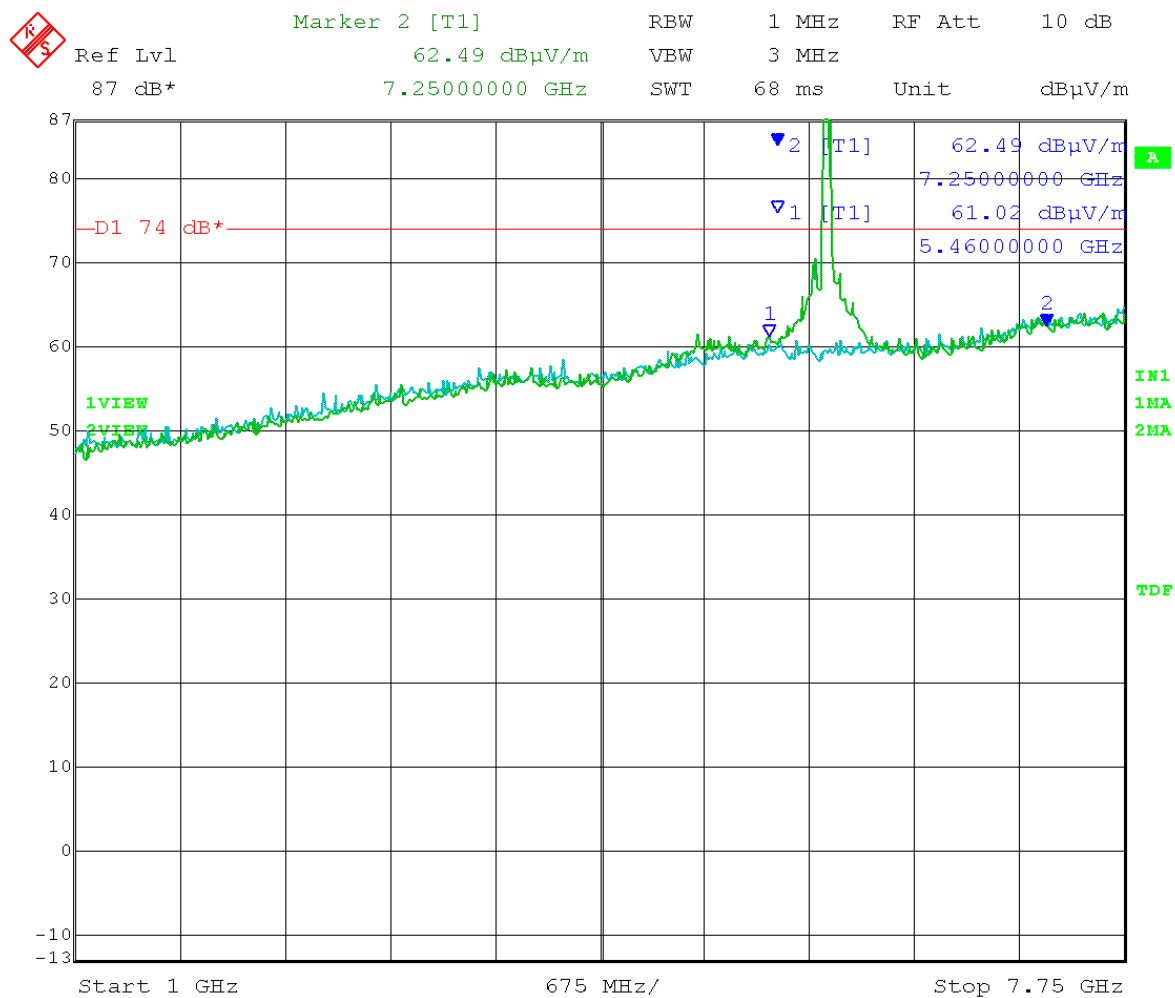


Date: 26.MAR.2014 13:15:11

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: High Channel Transmit = 5.835 GHz Point-to-Multipoint mode
20 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
Polarization = Vertical

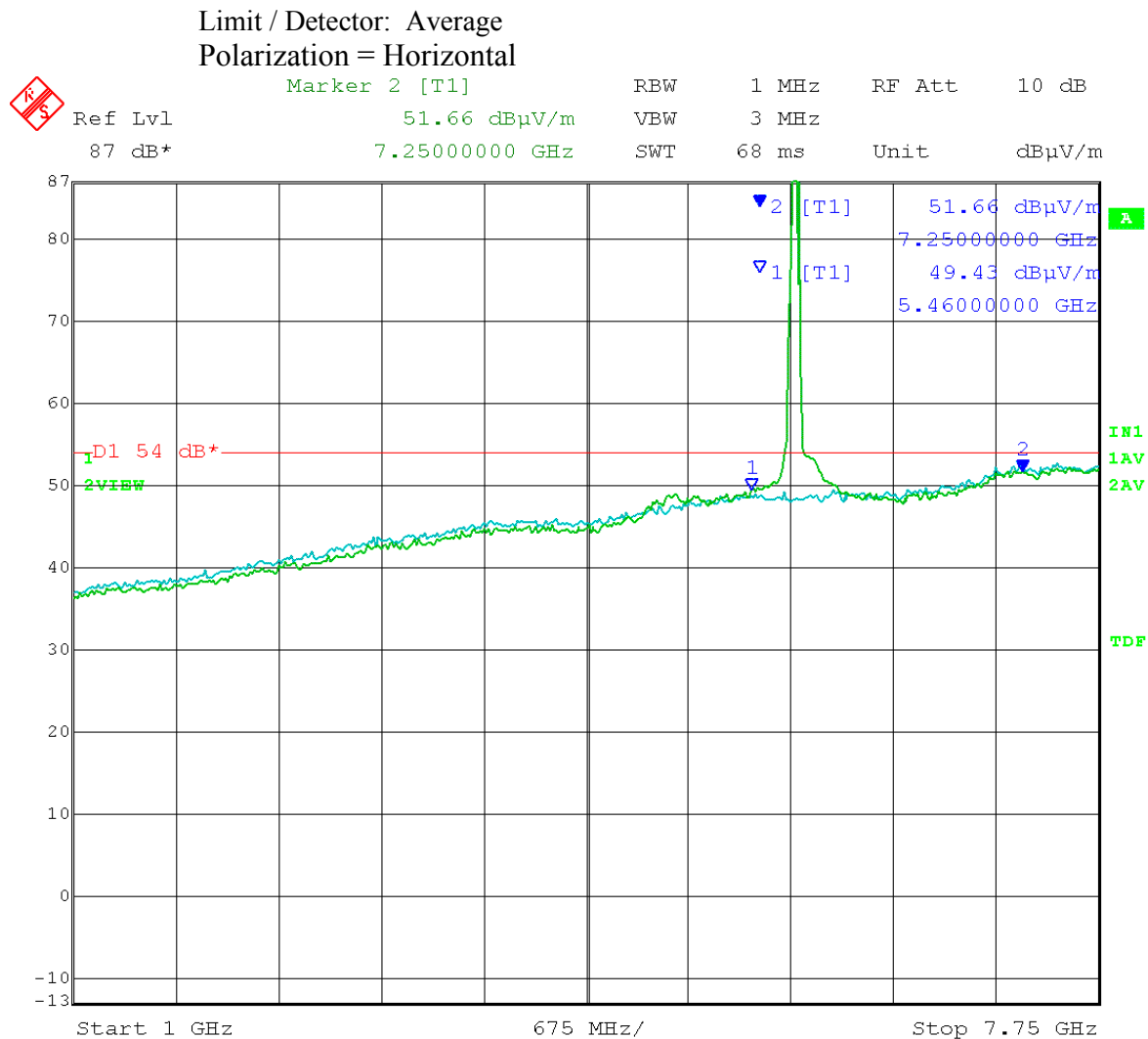


Date: 27.MAR.2014 09:12:47

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0

Blue trace = EUT transmit turned OFF

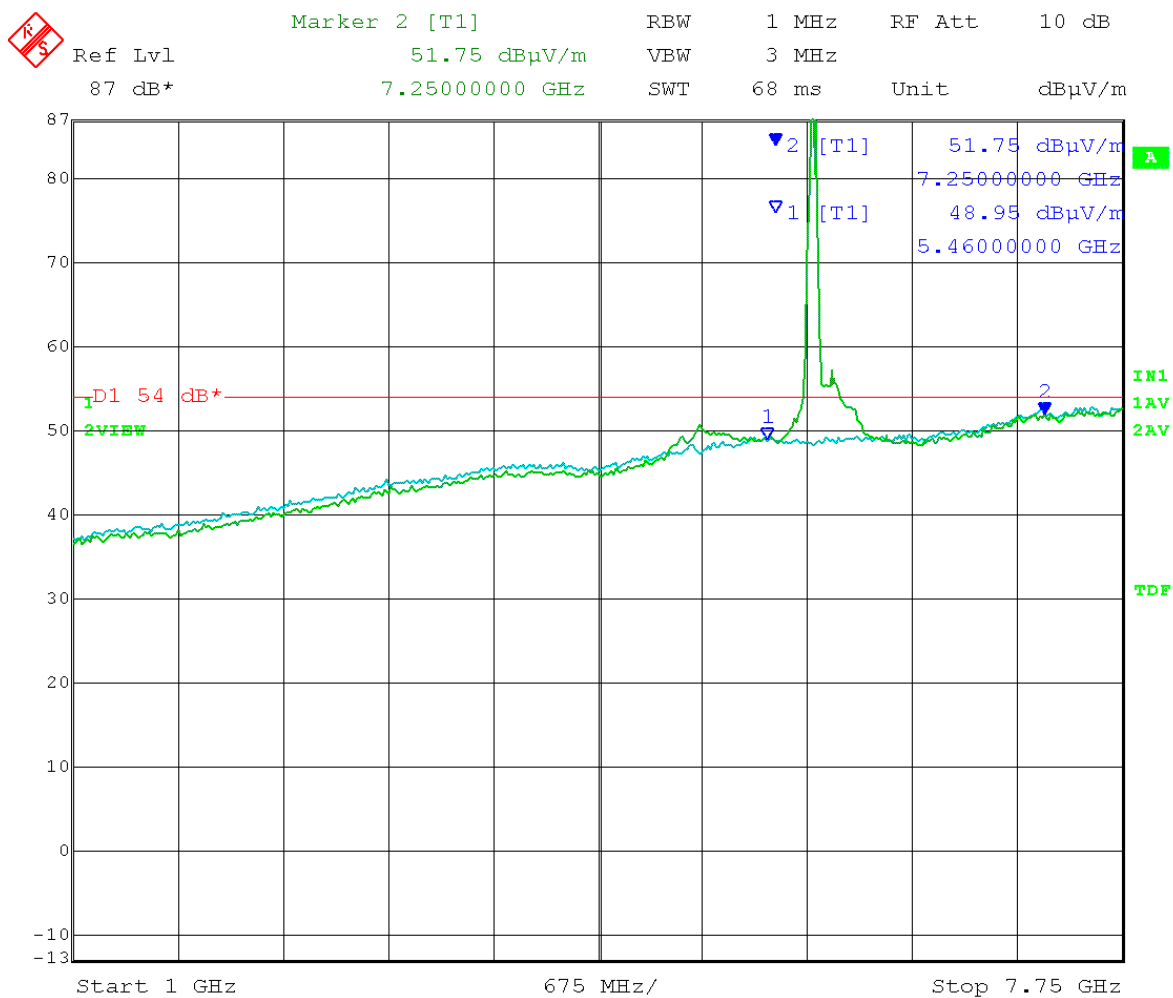


Date: 26.MAR.2014 13:05:52

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
40 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

Limit / Detector: Average
Polarization = Vertical

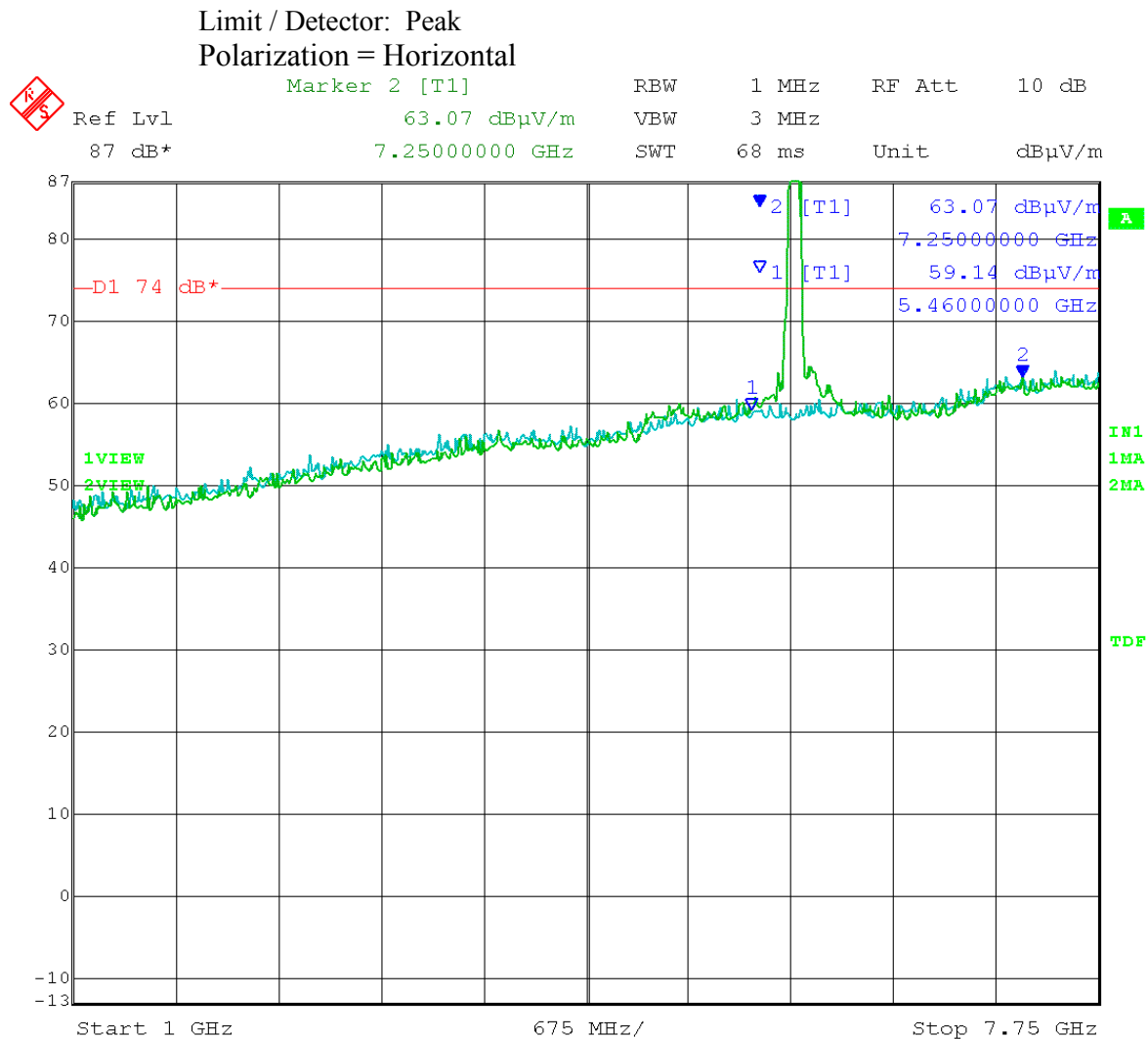


Date: 27.MAR.2014 08:49:16

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0

Blue trace = EUT transmit turned OFF



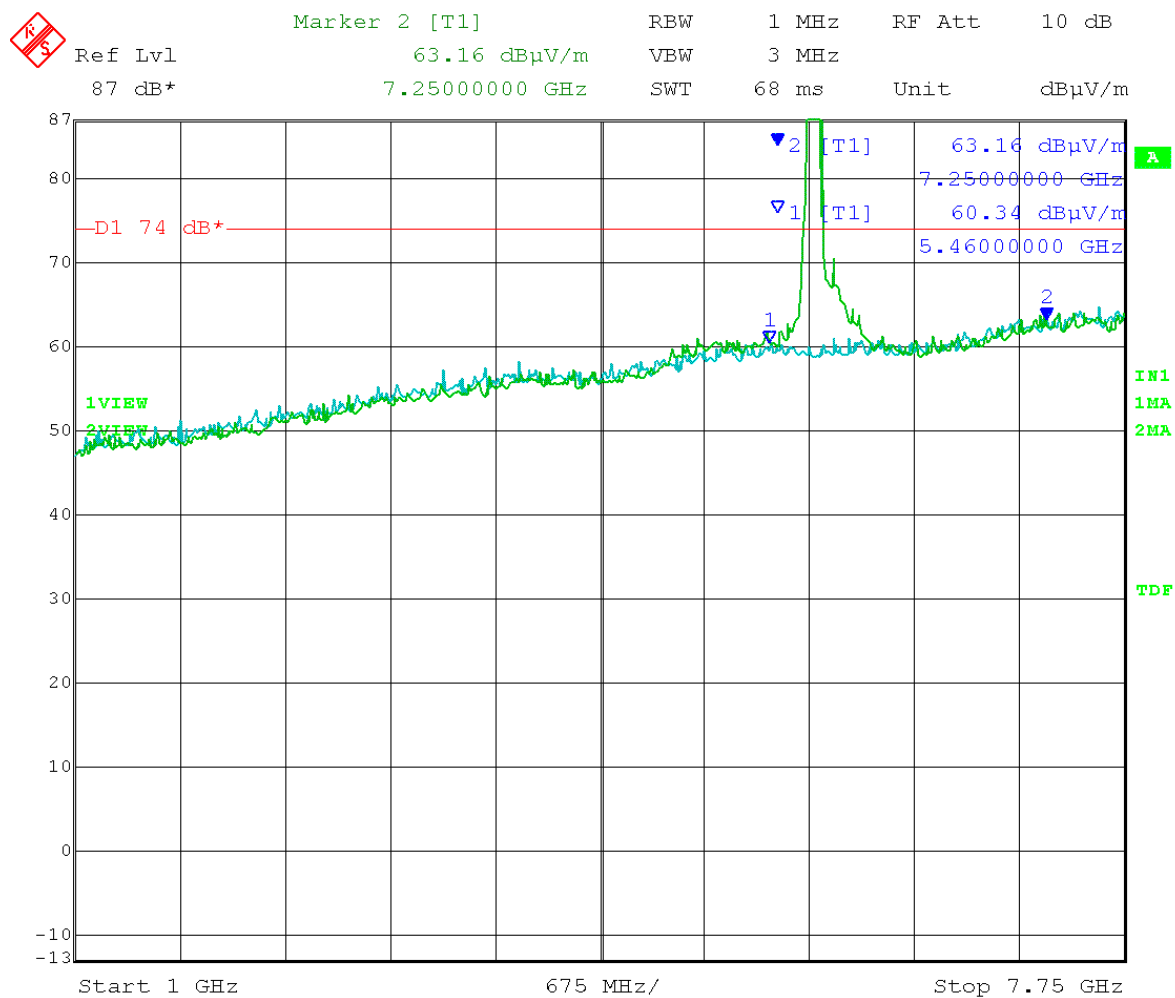
Date: 26.MAR.2014 13:11:20

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: Low Channel Transmit = 5.750 GHz Point-to-Multipoint mode
40 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0

Blue trace = EUT transmit turned OFF

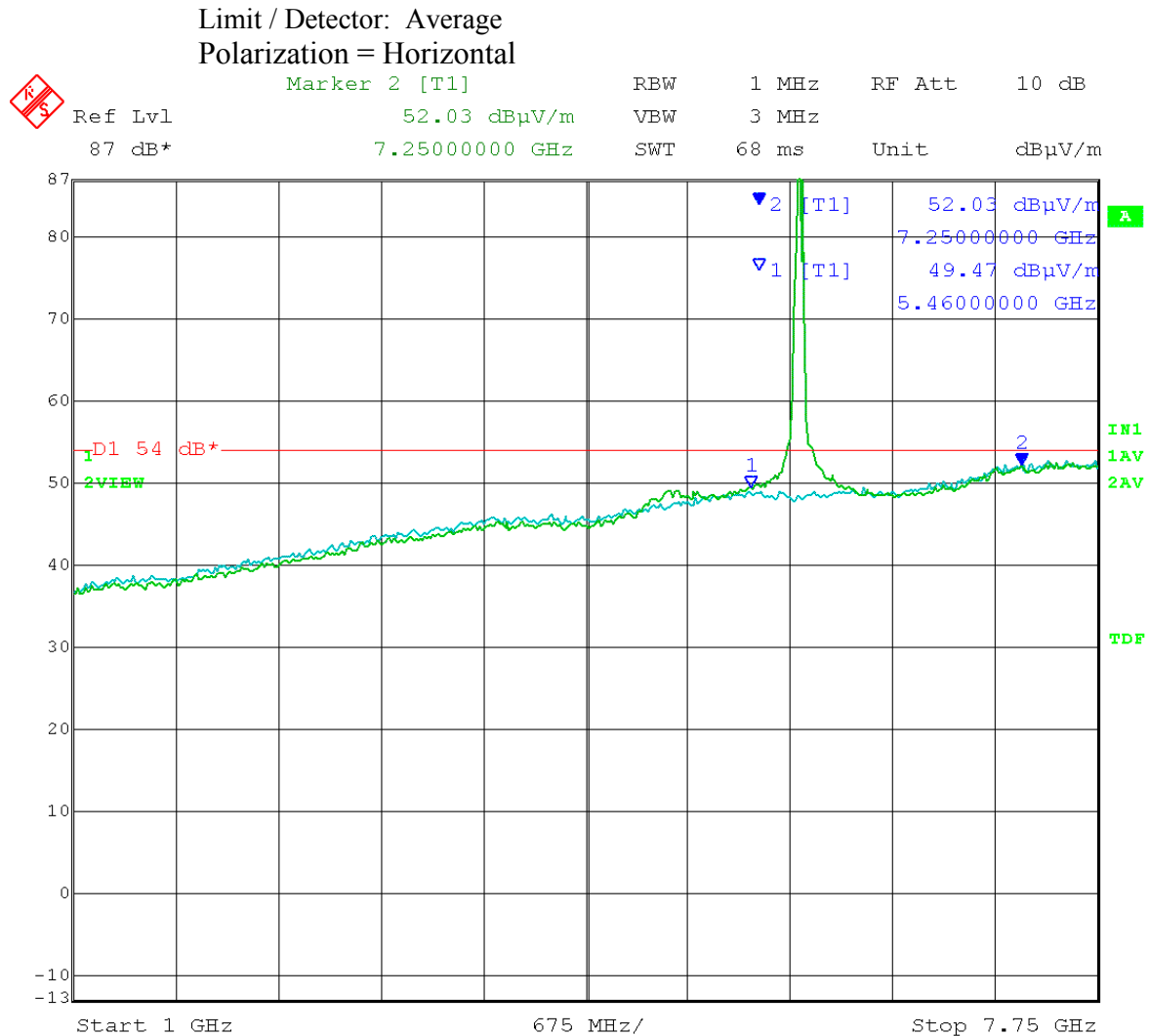
Limit / Detector: Peak
Polarization = Vertical



Date: 27.MAR.2014 09:05:41

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

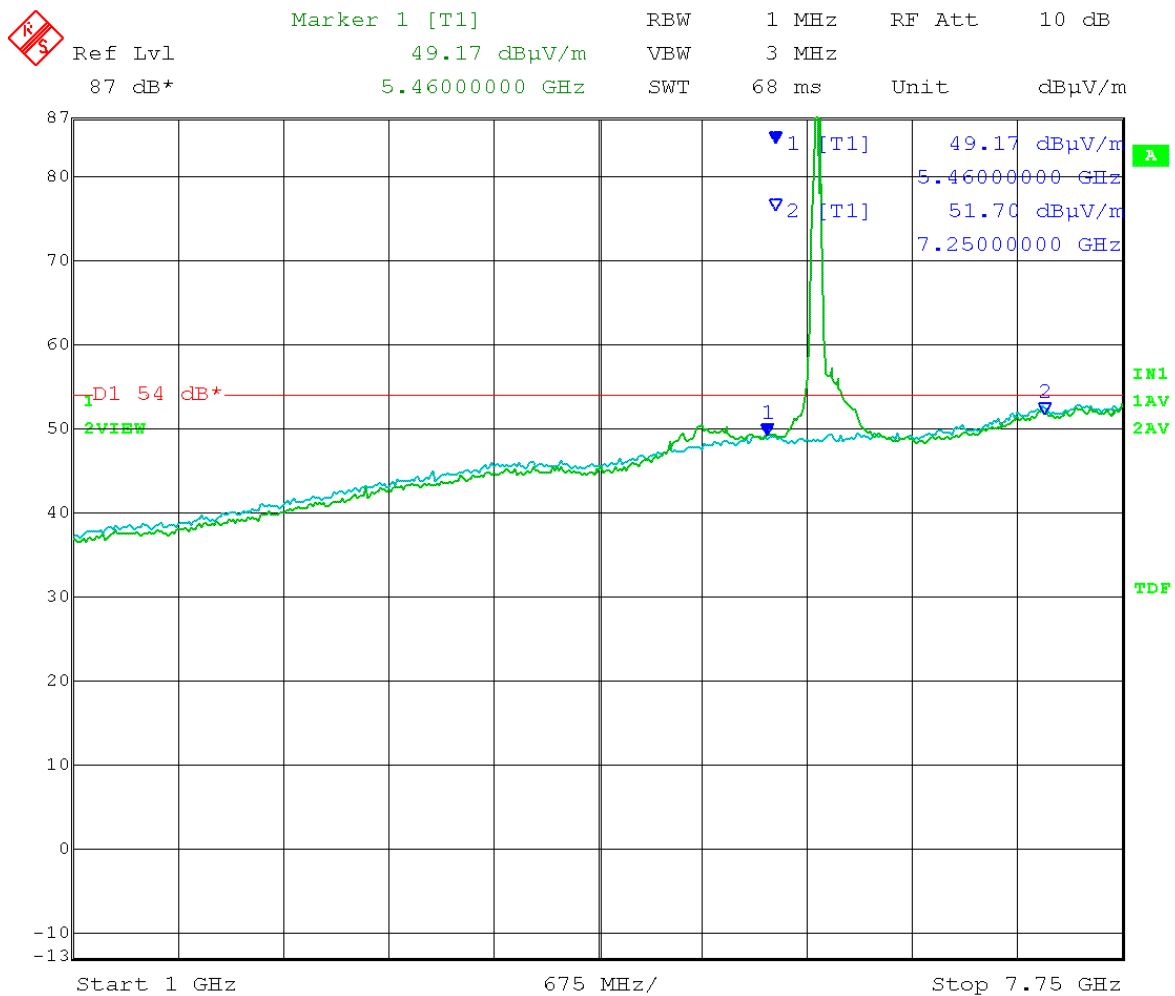


Date: 26.MAR.2014 13:03:49

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: Mid Channel Transmit = 5.785 GHz Point-to-Multipoint mode
40 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

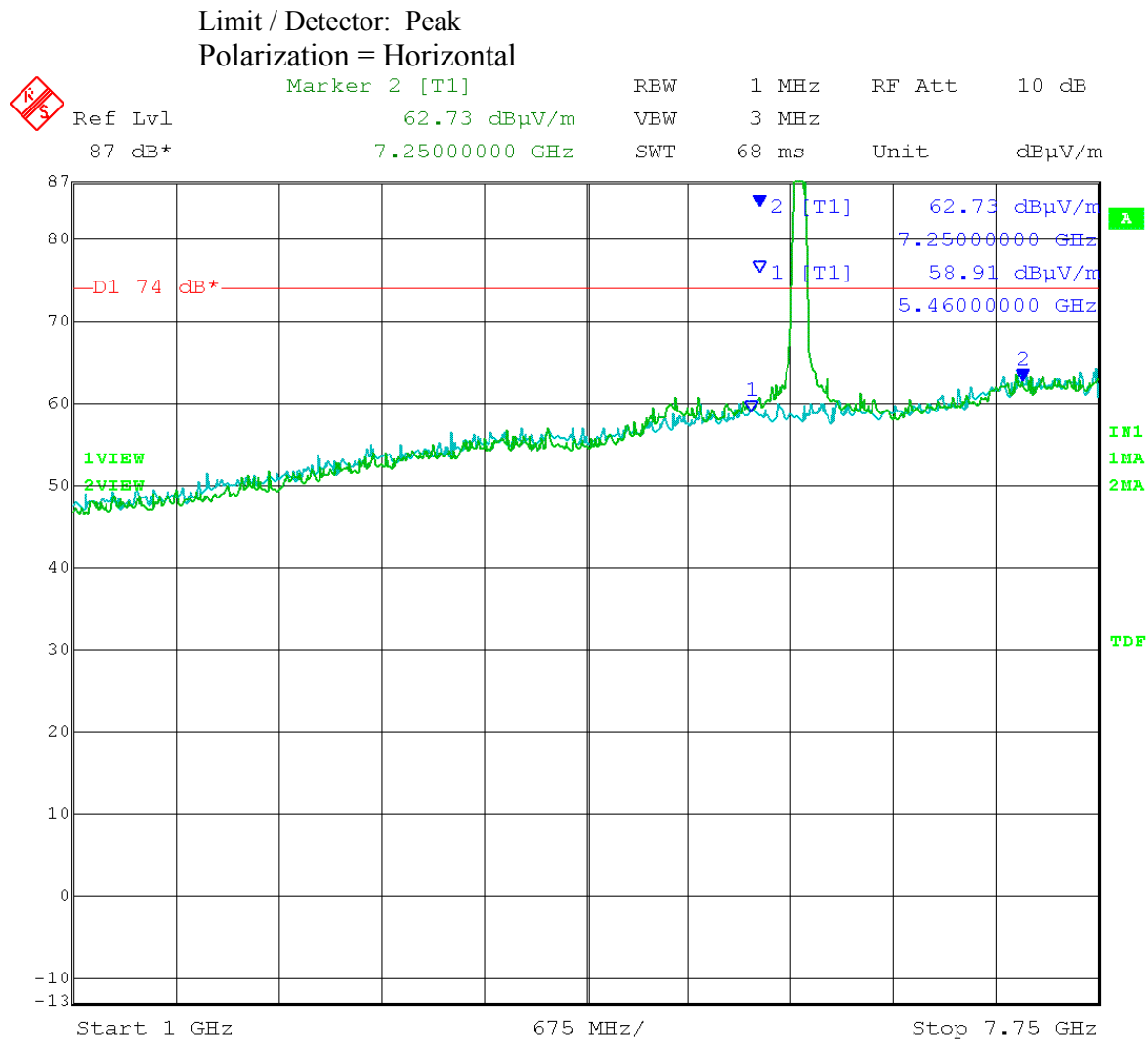
Limit / Detector: Average
Polarization = Vertical



Date: 27.MAR.2014 08:51:44

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

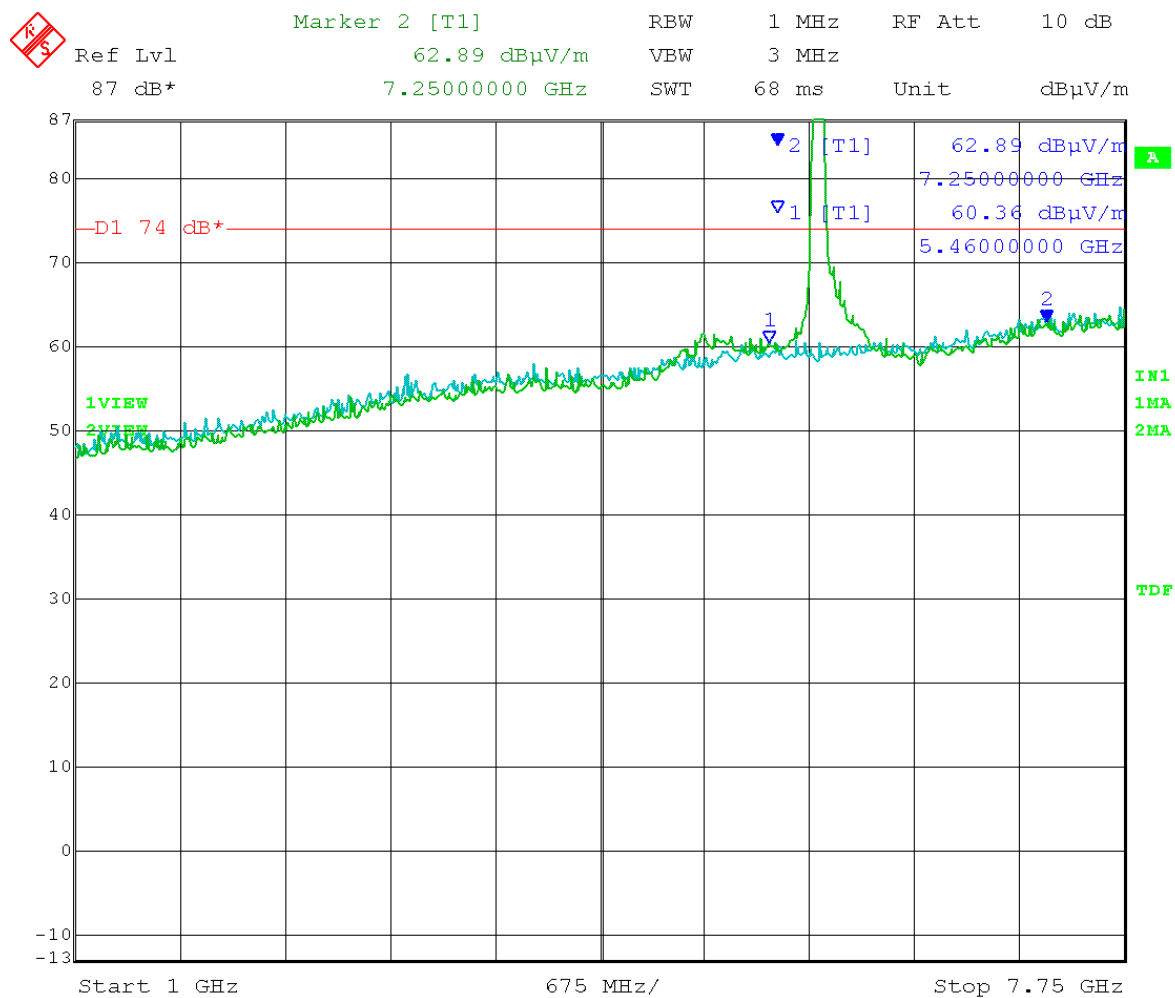


Date: 26.MAR.2014 13:13:00

Test Date: 03-27-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: **Mid Channel Transmit = 5.785 GHz** Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical

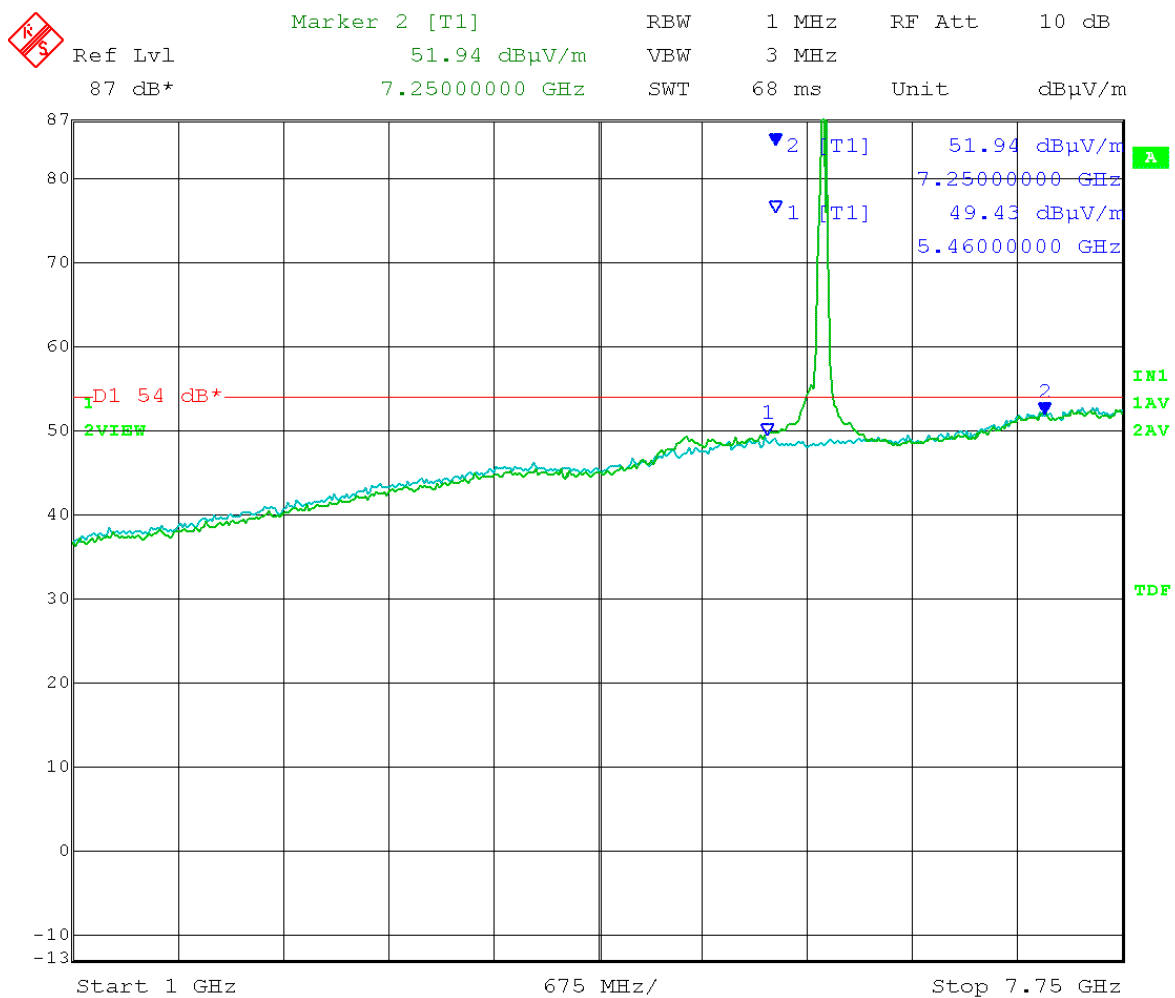


Date: 27.MAR.2014 08:54:25

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Average
 Polarization = Horizontal

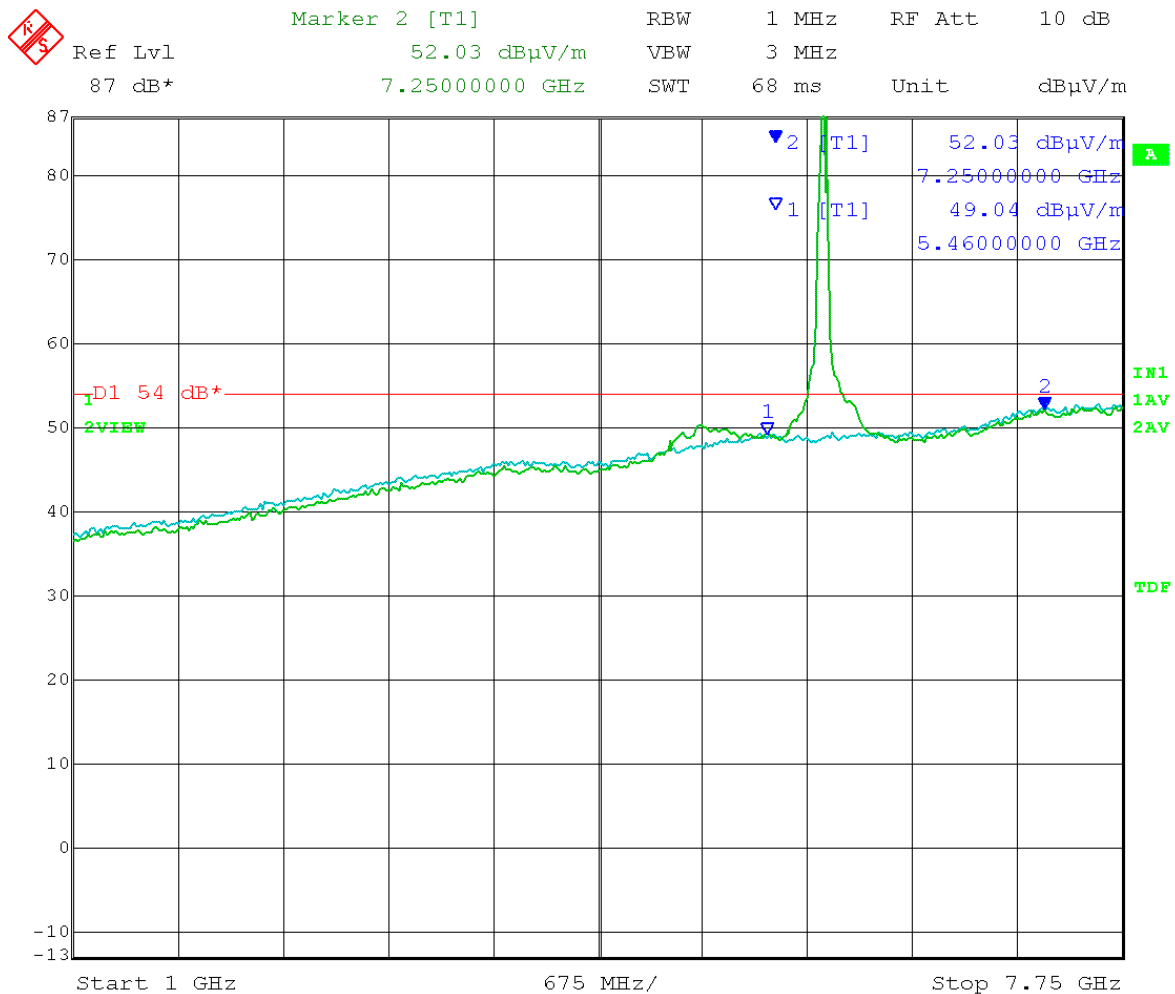


Date: 26.MAR.2014 13:01:35

Test Date: 03-27-2014
Company: Cambium Networks
EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
Operator: Craig B
Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
40 MHz channel BW Output power setting: 1.0
Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
Blue trace = EUT transmit turned OFF

Limit / Detector: Average
Polarization = Vertical

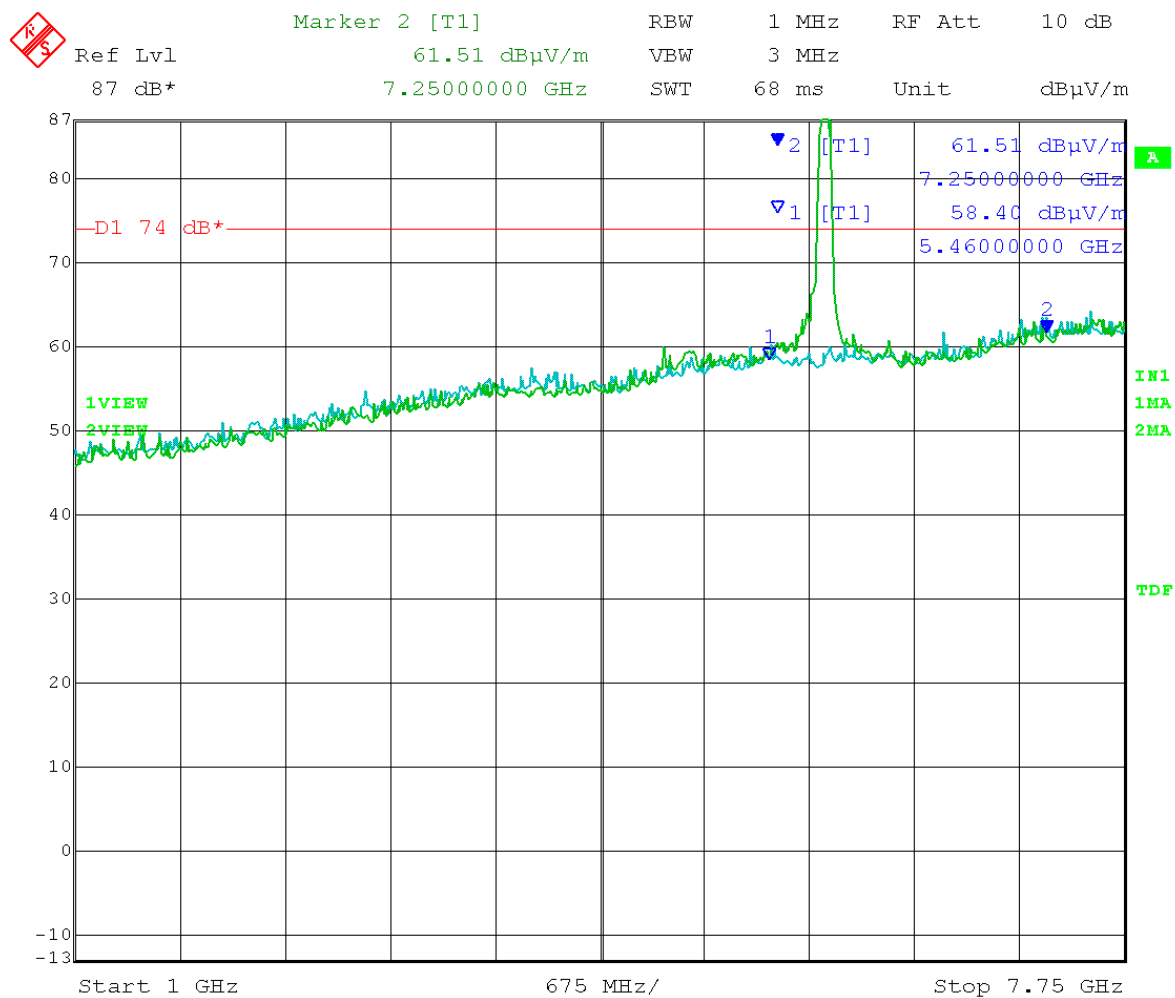


Date: 27.MAR.2014 08:47:54

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Horizontal

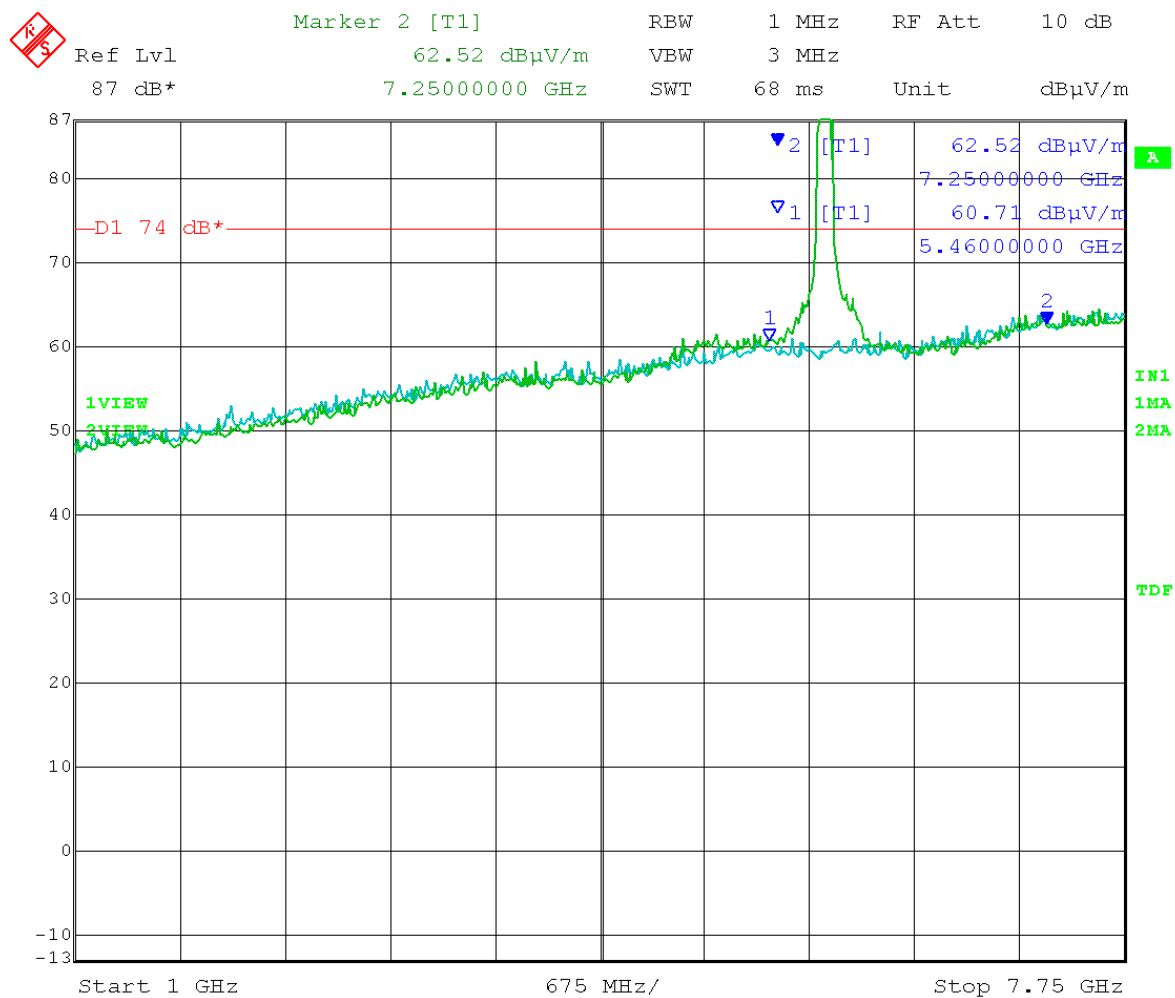


Date: 26.MAR.2014 13:09:30

Test Date: 03-26-2014
 Company: Cambium Networks
 EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
 Test: Restricted Band Measurements – Radiated with 30 dBi Dish antenna
 Operator: Craig B
 Comment: High Channel Transmit = 5.825 GHz Point-to-Multipoint mode
 40 MHz channel BW Output power setting: 1.0
 Restricted Band-edges = 5.46 GHz and 7.25 GHz

Green trace = EUT transmitting on both ports at power setting 1.0
 Blue trace = EUT transmit turned OFF

Limit / Detector: Peak
 Polarization = Vertical



Date: 27.MAR.2014 09:07:11

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 70 deg C 26% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW's; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-27-2014

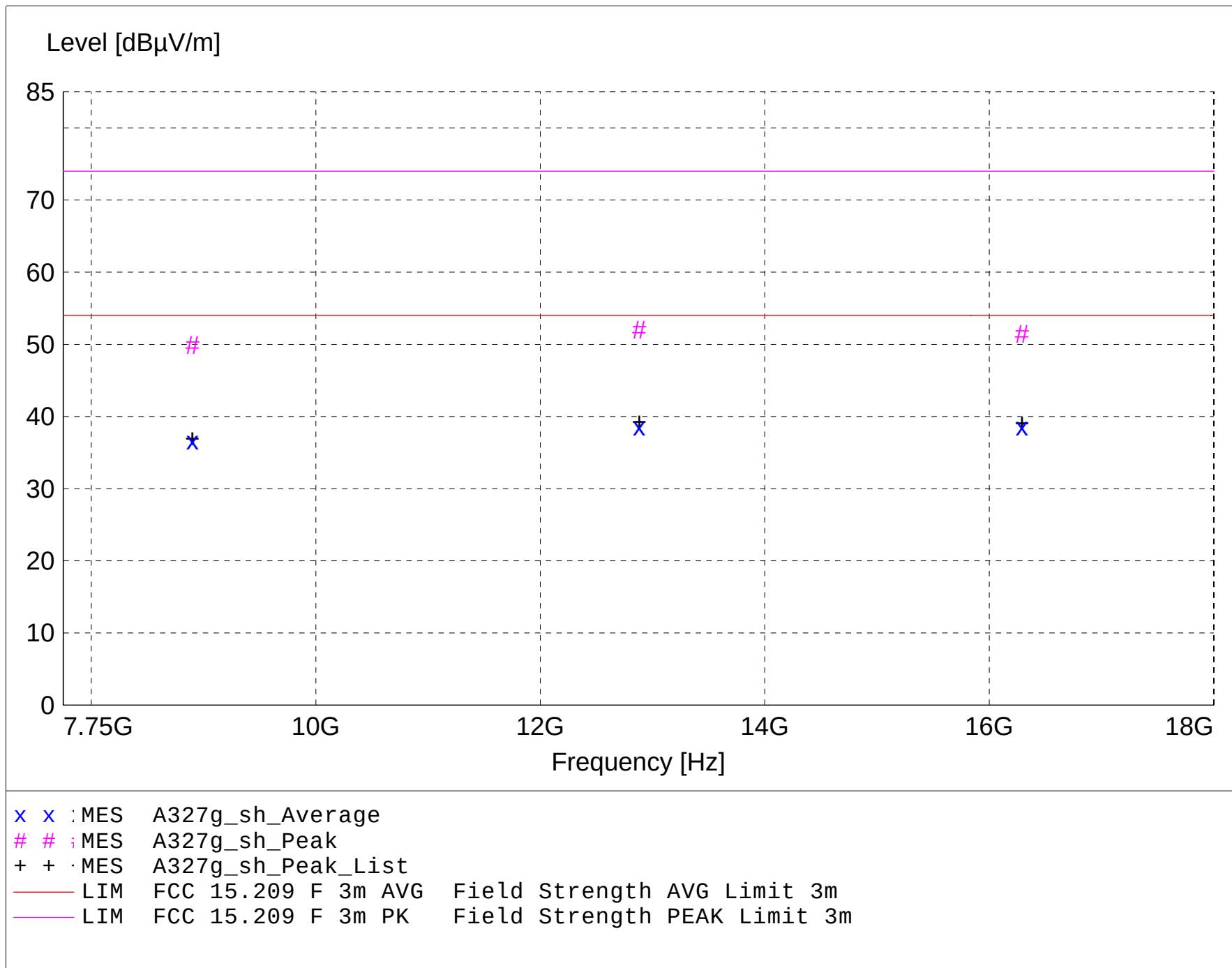
TEXT: "Horz 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Sample Equations:
$$\begin{array}{rcll} \text{Total Level(dB}\mu\text{V/m)} & = & \text{Level(dB}\mu\text{V)} & + \text{ System Loss(dB)} & + \text{ Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 & & = 35.51 & + (-22.1) & + 11.20 \end{array}$$
$$\begin{array}{rcll} \text{Margin(dB)} & = & \text{Limit(dB}\mu\text{V/m)} & - \text{ Total Level(dB}\mu\text{V/m)} \\ 15.4 & & = 40 & - 24.6 \end{array}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector
- Background Scan Peak Detector (Optional)
- Background Scan Average Detector (Optional)



MEASUREMENT RESULT: "A327g_sh_Final"

3/27/2014 3:45PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
12881.200000	35.34	39.36	-36.1	38.6	54.0	15.4	1.30	0	AVERAGE	noise floor
16292.400000	37.72	38.14	-37.3	38.6	54.0	15.4	1.30	0	AVERAGE	noise floor
8902.000000	33.99	37.72	-35.1	36.6	54.0	17.4	1.30	0	AVERAGE	noise floor
12881.200000	48.75	39.36	-36.1	52.0	74.0	22.0	1.30	0	MAX PEAK	noise floor
16292.400000	50.61	38.14	-37.3	51.4	74.0	22.6	1.30	0	MAX PEAK	noise floor
8902.000000	47.24	37.72	-35.1	49.9	74.0	24.1	1.30	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-28-2014

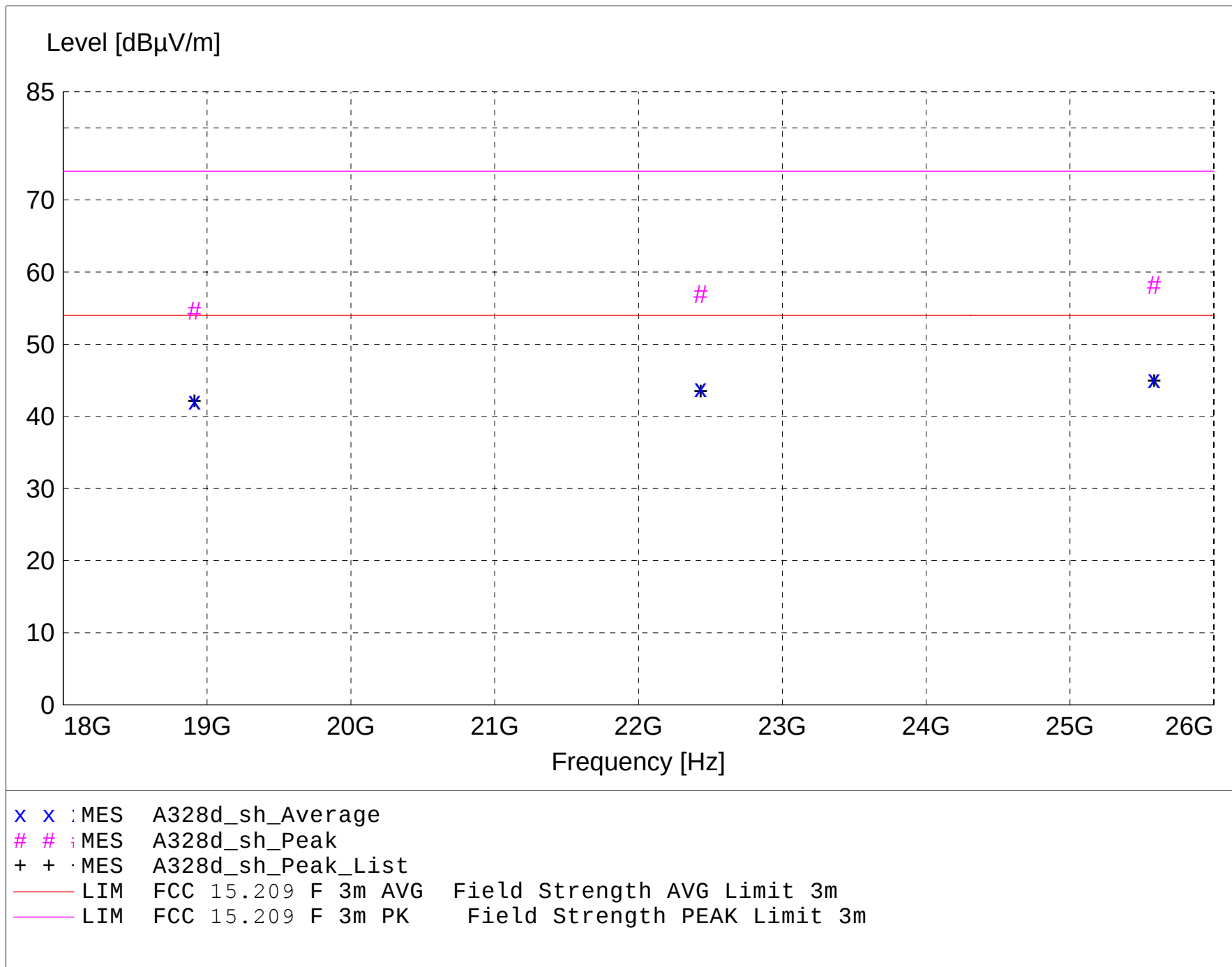
TEXT: "Horz 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Equations: $\text{Total Level(dB}\mu\text{V/m)} = \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)}$
 $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)}$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328d_sh_Final"

3/28/2014 1:29PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
25585.200000	34.61	46.53	-36.0	45.2	54.0	8.8	1.30	0	AVERAGE	noise floor
22432.000000	38.35	46.35	-40.8	43.9	54.0	10.1	1.30	0	AVERAGE	noise floor
18912.400000	36.98	44.71	-39.5	42.2	54.0	11.8	1.30	0	AVERAGE	noise floor
25585.200000	47.62	46.53	-36.0	58.2	74.0	15.8	1.30	0	MAX PEAK	noise floor
22432.000000	51.38	46.35	-40.8	57.0	74.0	17.0	1.30	0	MAX PEAK	noise floor
18912.400000	49.38	44.71	-39.5	54.6	74.0	19.4	1.30	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-28-2014

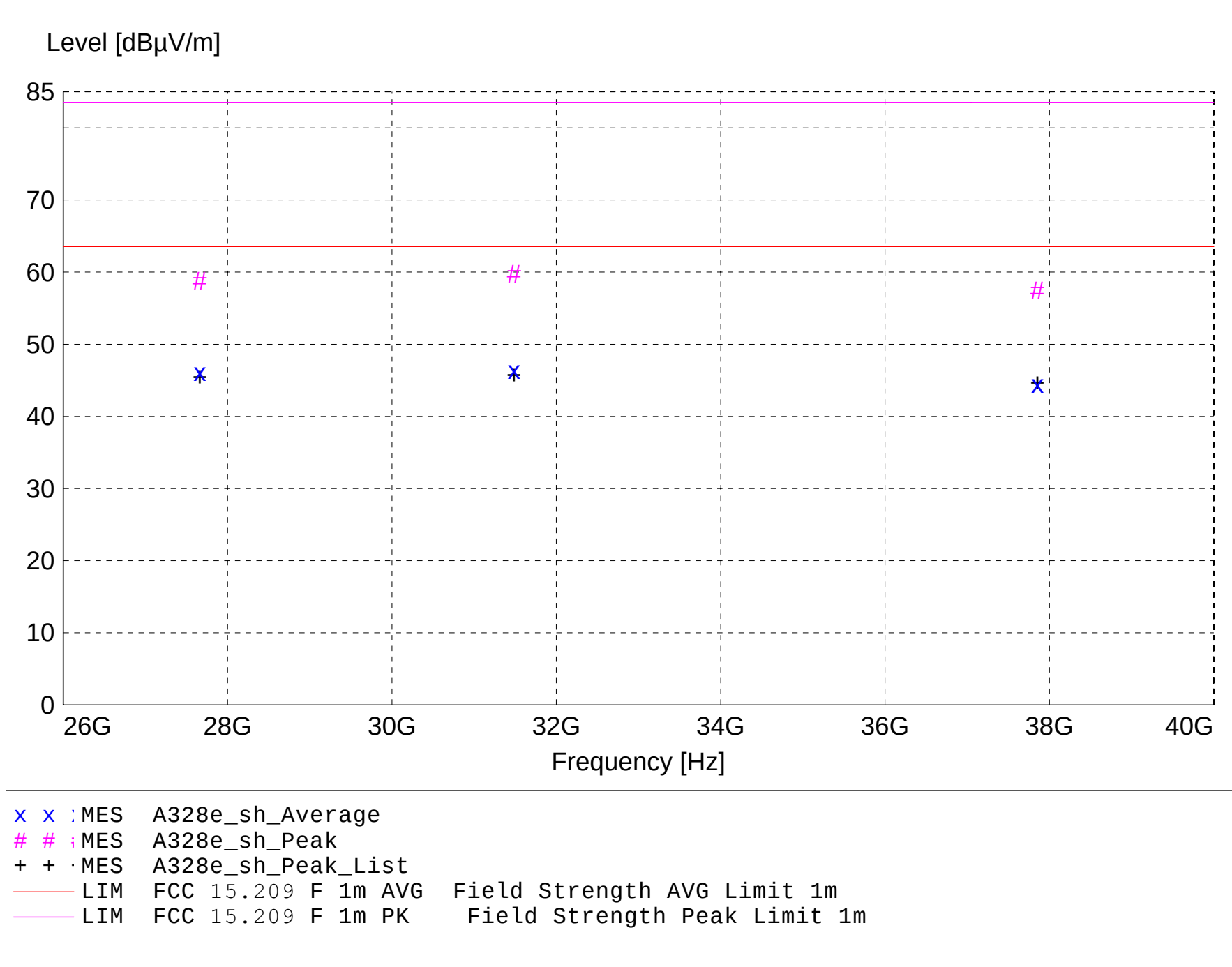
TEXT: "Horz 1 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 1 Meters with HORIZONTAL Antenna Polarization

Equations: $\text{Total Level(dB}\mu\text{V/m)} = \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)}$
 $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)}$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328e_sh_Final"

3/28/2014 1:50PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
31485.000000	49.25	47.49	-50.4	46.4	63.5	17.2	1.30	0	AVERAGE	noise floor
27661.600000	49.84	46.48	-50.3	46.1	63.5	17.5	1.30	0	AVERAGE	noise floor
37855.400000	45.09	45.40	-46.0	44.5	63.5	19.0	1.30	0	AVERAGE	noise floor
31485.000000	62.59	47.49	-50.4	59.7	83.5	23.8	1.30	0	MAX PEAK	noise floor
27661.600000	62.59	46.48	-50.3	58.8	83.5	24.7	1.30	0	MAX PEAK	noise floor
37855.400000	57.99	45.40	-46.0	57.4	83.5	26.1	1.30	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 70 deg C 26% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW's; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-27-2014

TEXT: "Vert 3 meters"

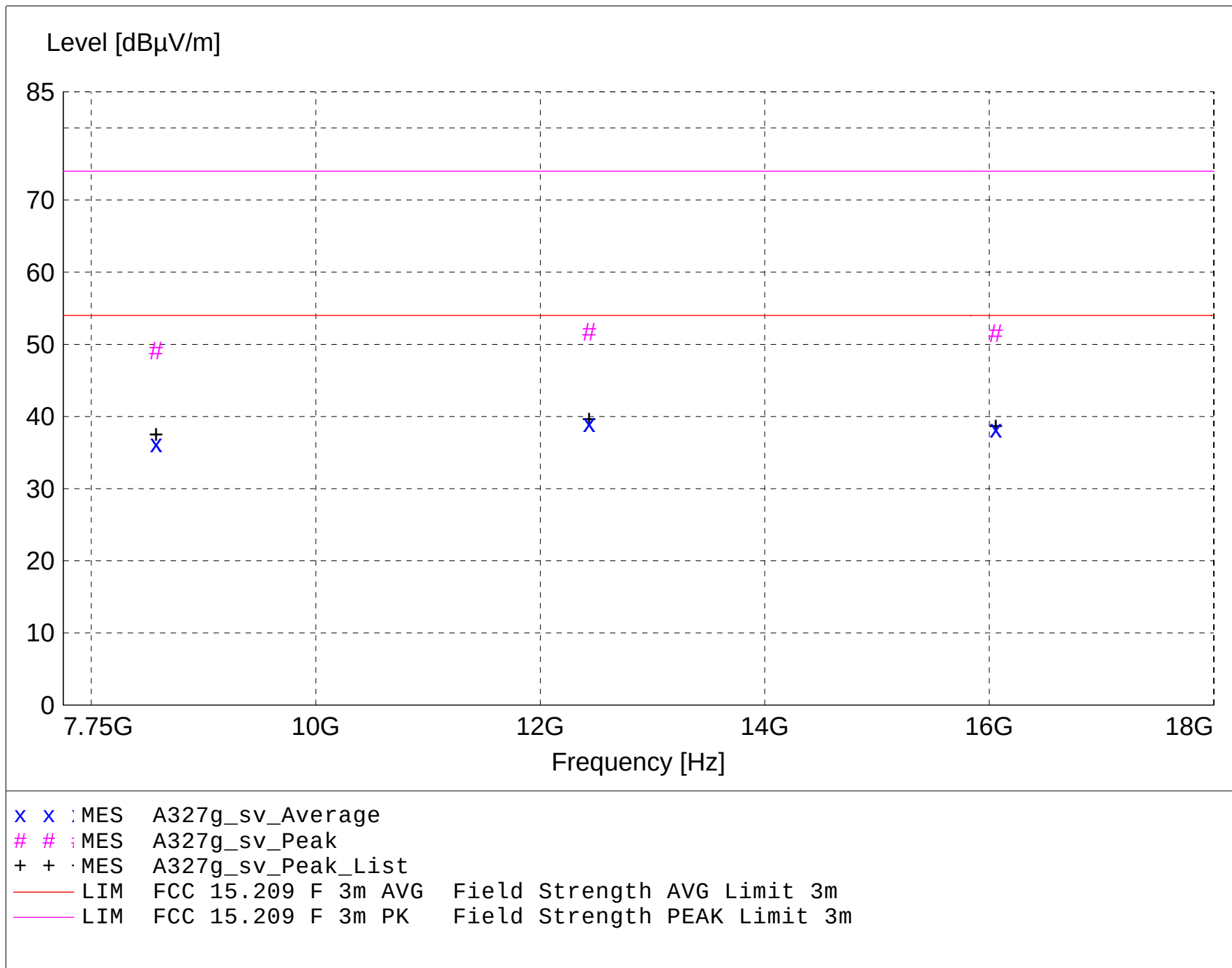
Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{array}{rclcl} \text{Total Level(dB}\mu\text{V/m)} & = & \text{Level(dB}\mu\text{V)} & + & \text{System Loss(dB)} & + & \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 & & = 35.51 & + & (-22.1) & + & 11.20 \end{array}$$

$$\begin{array}{rclcl} \text{Margin(dB)} & = & \text{Limit(dB}\mu\text{V/m)} & - & \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 & = & 40 & - & 24.6 \end{array}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector
- Background Scan Peak Detector (Optional)
- Background Scan Average Detector (Optional)



MEASUREMENT RESULT: "A327g_sv_Final"

3/27/2014 3:20PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
12436.200000	35.34	39.69	-36.0	39.1	54.0	14.9	1.26	0	AVERAGE	noise floor
16058.200000	37.60	37.72	-37.1	38.3	54.0	15.7	1.26	0	AVERAGE	noise floor
8576.800000	34.26	37.28	-35.3	36.2	54.0	17.8	1.26	0	AVERAGE	noise floor
12436.200000	48.06	39.69	-36.0	51.8	74.0	22.2	1.26	0	MAX PEAK	noise floor
16058.200000	50.87	37.72	-37.1	51.5	74.0	22.5	1.26	0	MAX PEAK	noise floor
8576.800000	47.11	37.28	-35.3	49.1	74.0	24.9	1.26	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-28-2014

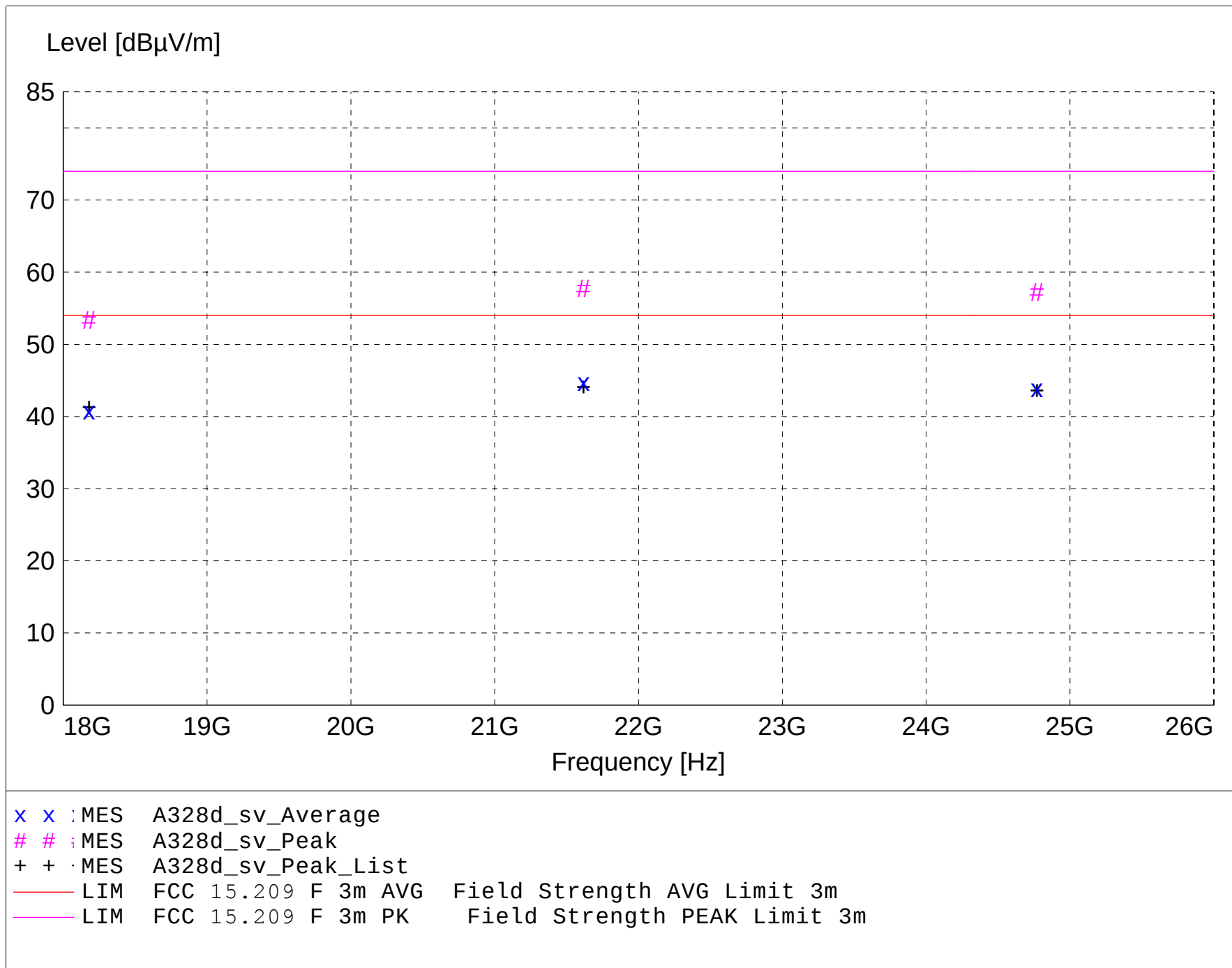
TEXT: "Vert 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{aligned} \text{Total Level(dB}\mu\text{V/m)} &= \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 &= 35.51 + (-22.1) + 11.20 \end{aligned}$$
$$\begin{aligned} \text{Margin(dB)} &= \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 &= 40 - 24.6 \end{aligned}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328d_sv_Final"

3/28/2014 1:33PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
21617.800000	38.01	46.53	-39.8	44.8	54.0	9.2	1.30	0	AVERAGE	noise floor
24770.000000	36.37	46.24	-38.7	44.0	54.0	10.0	1.30	0	AVERAGE	noise floor
18179.600000	35.87	44.07	-39.1	40.9	54.0	13.1	1.30	0	AVERAGE	noise floor
21617.800000	50.97	46.53	-39.8	57.7	74.0	16.3	1.30	0	MAX PEAK	noise floor
24770.000000	49.65	46.24	-38.7	57.2	74.0	16.8	1.30	0	MAX PEAK	noise floor
18179.600000	48.44	44.07	-39.1	53.4	74.0	20.6	1.30	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 23 dBi Panel antenna
Date: 03-28-2014

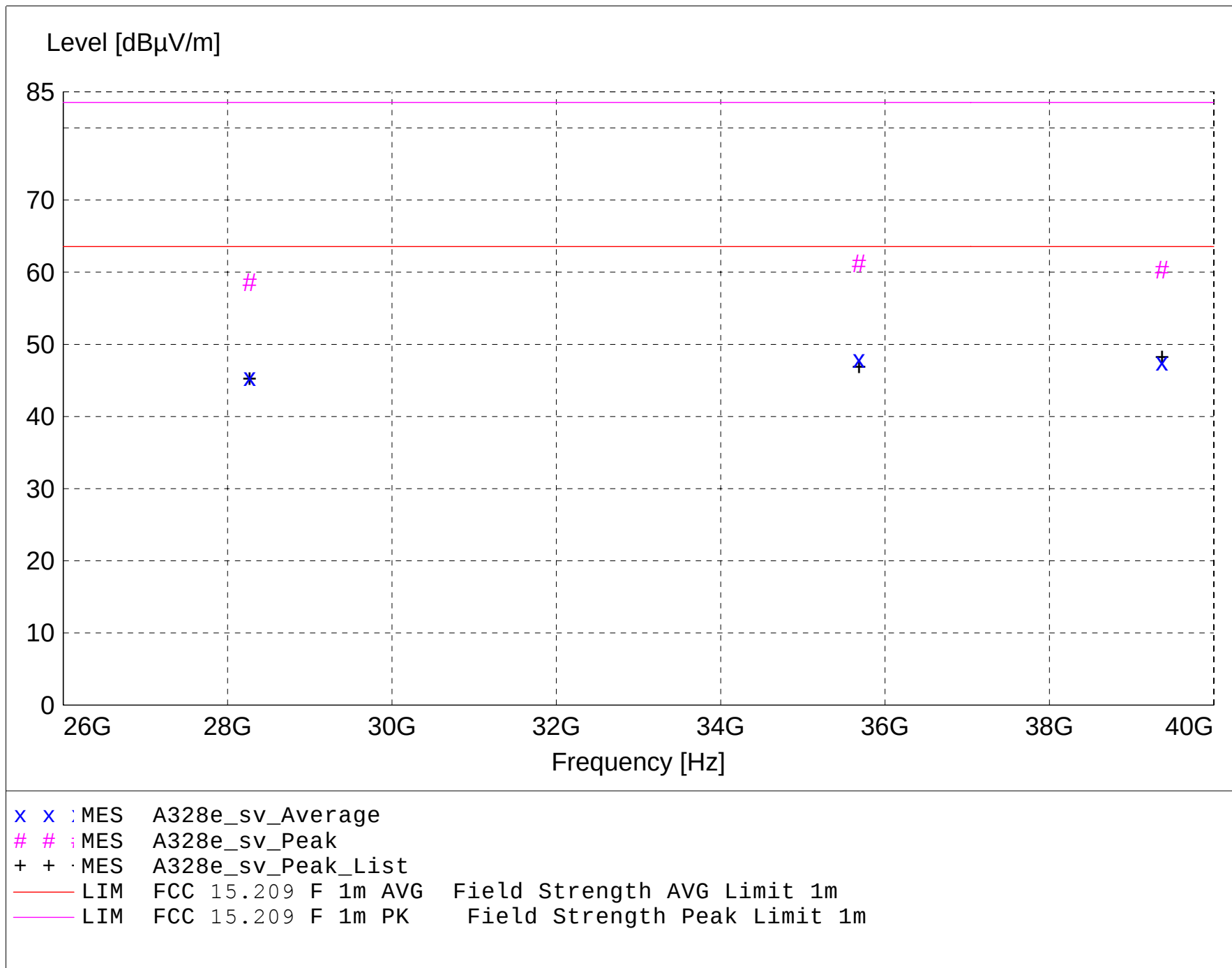
TEXT: "Vert 1 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 1 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{aligned} \text{Total Level(dB}\mu\text{V/m)} &= \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 &= 35.51 + (-22.1) + 11.20 \end{aligned}$$
$$\begin{aligned} \text{Margin(dB)} &= \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 &= 40 - 24.6 \end{aligned}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328e_sv_Final"

3/28/2014 1:54PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
35684.200000	45.89	48.46	-46.4	47.9	63.5	15.6	1.30	0	AVERAGE	noise floor
39370.400000	48.62	45.89	-47.0	47.6	63.5	16.0	1.30	0	AVERAGE	noise floor
28268.000000	49.32	46.58	-50.4	45.5	63.5	18.1	1.30	0	AVERAGE	noise floor
35684.200000	59.19	48.46	-46.4	61.2	83.5	22.3	1.30	0	MAX PEAK	noise floor
39370.400000	61.43	45.89	-47.0	60.4	83.5	23.2	1.30	0	MAX PEAK	noise floor
28268.000000	62.47	46.58	-50.4	58.6	83.5	24.9	1.30	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 70 deg C 27% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

TEXT: "Horz 3 meters"

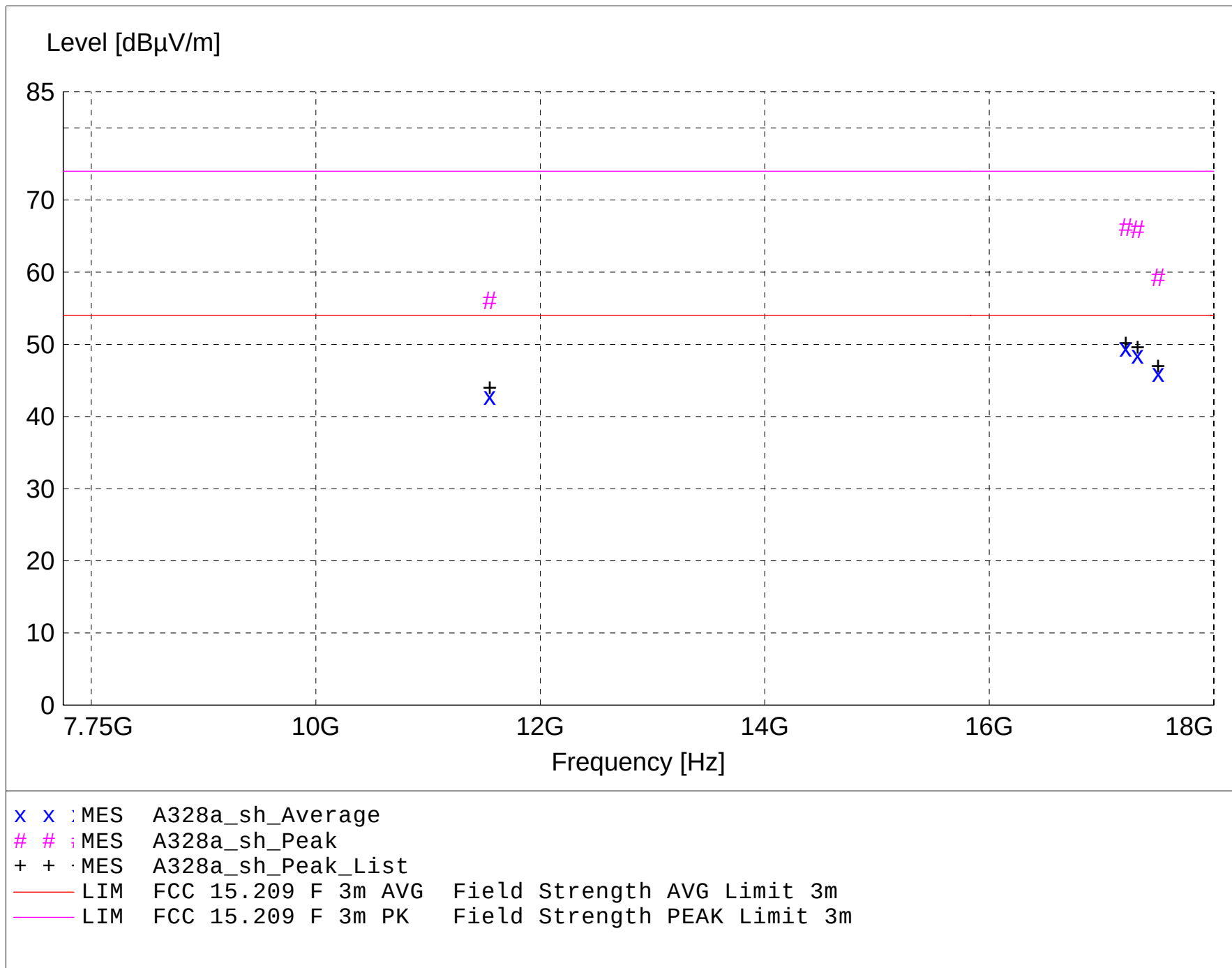
Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Sample Equations:
$$\begin{array}{rcll} \text{Total Level(dB}\mu\text{V/m)} & = & \text{Level(dB}\mu\text{V)} & + \text{ System Loss(dB)} & + \text{ Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 & & = 35.51 & + (-22.1) & + 11.20 \end{array}$$

$$\begin{array}{rcll} \text{Margin(dB)} & = & \text{Limit(dB}\mu\text{V/m)} & - \text{ Total Level(dB}\mu\text{V/m)} \\ 15.4 & & = 40 & - 24.6 \end{array}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
 | Final maximized level using Quasi-Peak detector
 X Final maximized level using Average detector
 # Final maximized level using Peak detector
 - Background Scan Peak Detector (Optional)
 - Background Scan Average Detector (Optional)



MEASUREMENT RESULT: "A328a_sh_Final"

3/28/2014 9:49AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
17216.650000	43.35	42.35	-36.2	49.5	54.0	4.5	1.21	0	AVERAGE	20 MHz; low ch
17322.410000	40.75	43.50	-35.7	48.5	54.0	5.5	1.22	0	AVERAGE	20 MHz; mid ch
17216.650000	60.07	42.35	-36.2	66.2	74.0	7.8	1.21	0	MAX PEAK	20 MHz; low ch
17506.210000	36.78	44.58	-35.3	46.1	54.0	7.9	1.23	0	AVERAGE	20 MHz; high ch
17322.410000	58.16	43.50	-35.7	65.9	74.0	8.1	1.22	0	MAX PEAK	20 MHz; mid ch
11550.050000	38.01	40.36	-35.5	42.9	54.0	11.1	1.35	0	AVERAGE	20 MHz; mid ch
17506.210000	50.04	44.58	-35.3	59.3	74.0	14.7	1.23	0	MAX PEAK	20 MHz; high ch
11550.050000	51.23	40.36	-35.5	56.1	74.0	17.9	1.35	0	MAX PEAK	20 MHz; mid ch

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

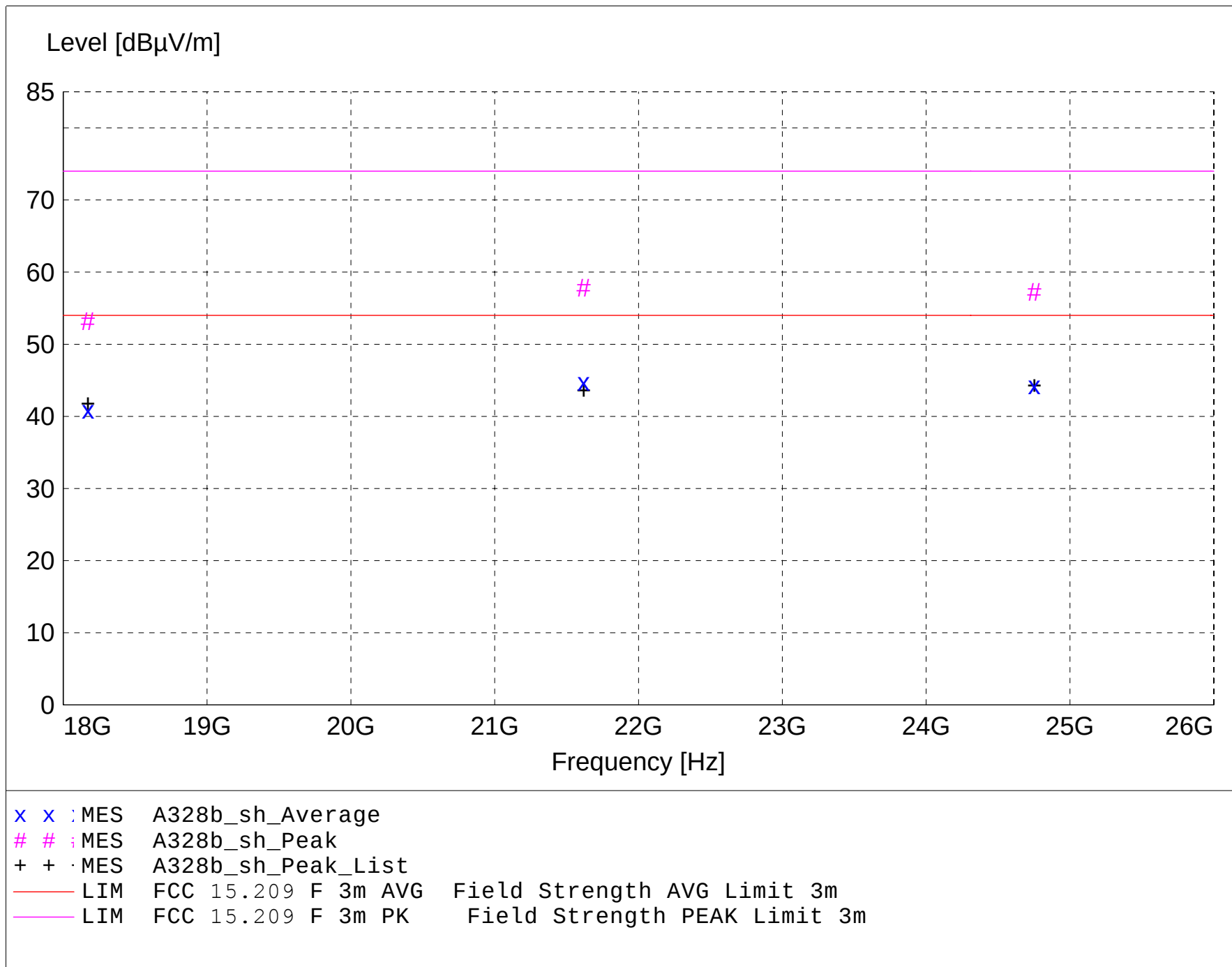
TEXT: "Horz 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with HORIZONTAL Antenna Polarization

Equations: $\text{Total Level(dB}\mu\text{V/m)} = \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)}$
 $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)}$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328b_sh_Final"

3/28/2014 1:08PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
21618.600000	38.07	46.53	-39.8	44.8	54.0	9.2	1.50	0	AVERAGE	noise floor
24752.400000	36.71	46.23	-38.7	44.3	54.0	9.7	1.50	0	AVERAGE	noise floor
18172.600000	35.87	44.06	-39.1	40.9	54.0	13.1	1.50	0	AVERAGE	noise floor
21618.600000	51.11	46.53	-39.8	57.9	74.0	16.1	1.50	0	MAX PEAK	noise floor
24752.400000	49.65	46.23	-38.7	57.2	74.0	16.8	1.50	0	MAX PEAK	noise floor
18172.600000	48.17	44.06	-39.1	53.2	74.0	20.8	1.50	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

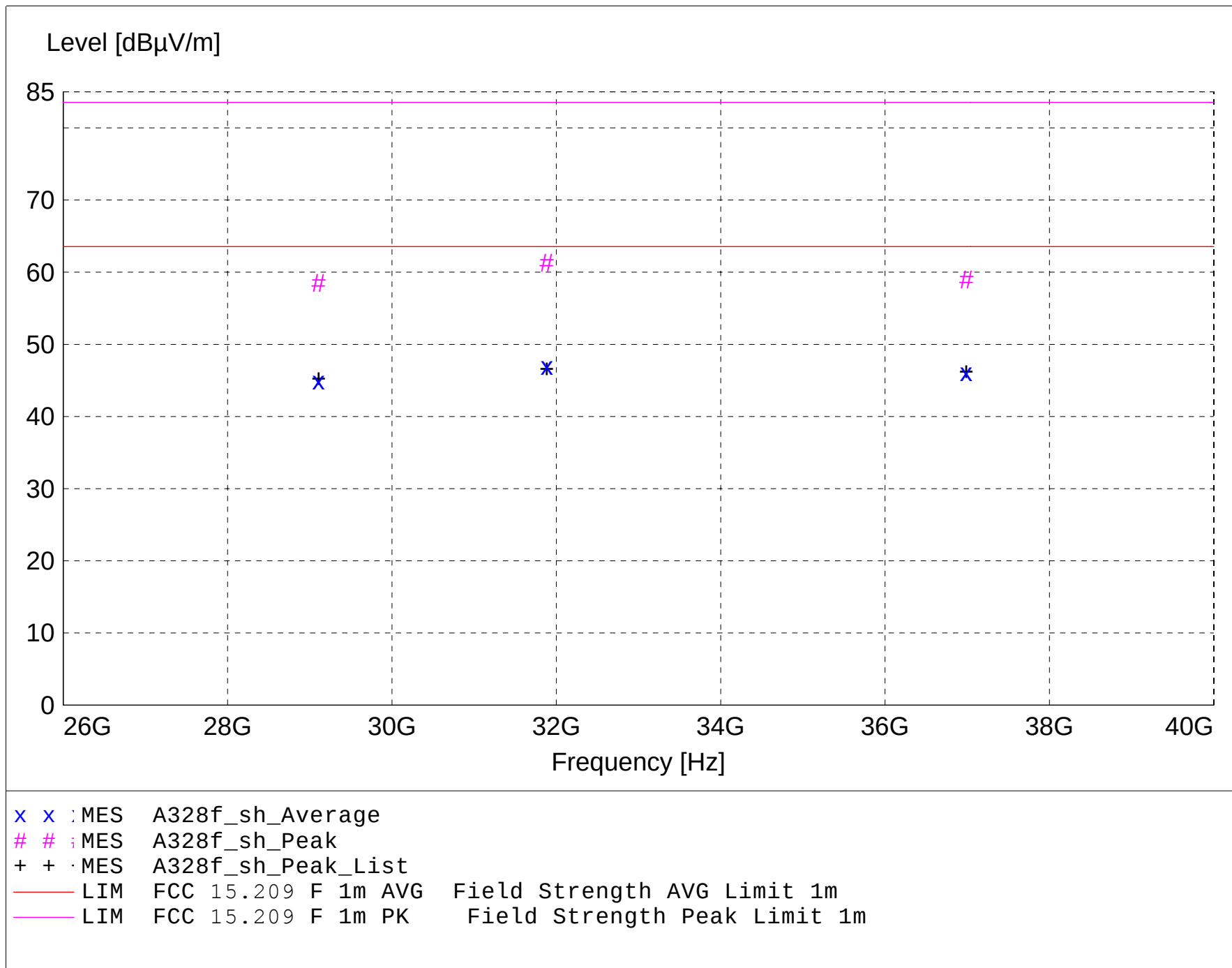
TEXT: "Horz 1 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 1 Meters with HORIZONTAL Antenna Polarization

Equations: $\text{Total Level(dB}\mu\text{V/m)} = \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)}$
 $\text{Margin(dB)} = \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)}$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328f_sh_Final"

3/28/2014 2:41PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
31883.800000	49.63	47.77	-50.4	47.0	63.5	16.5	1.40	0	AVERAGE	noise floor
36989.200000	47.00	46.28	-47.2	46.1	63.5	17.4	1.40	0	AVERAGE	noise floor
29107.800000	47.50	46.56	-49.1	45.0	63.5	18.6	1.40	0	AVERAGE	noise floor
31883.800000	63.93	47.77	-50.4	61.3	83.5	22.2	1.40	0	MAX PEAK	noise floor
36989.200000	59.87	46.28	-47.2	59.0	83.5	24.5	1.40	0	MAX PEAK	noise floor
29107.800000	61.05	46.56	-49.1	58.5	83.5	25.0	1.40	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 70 deg C 27% R.H.
Test Site: DLS O.F. G1
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

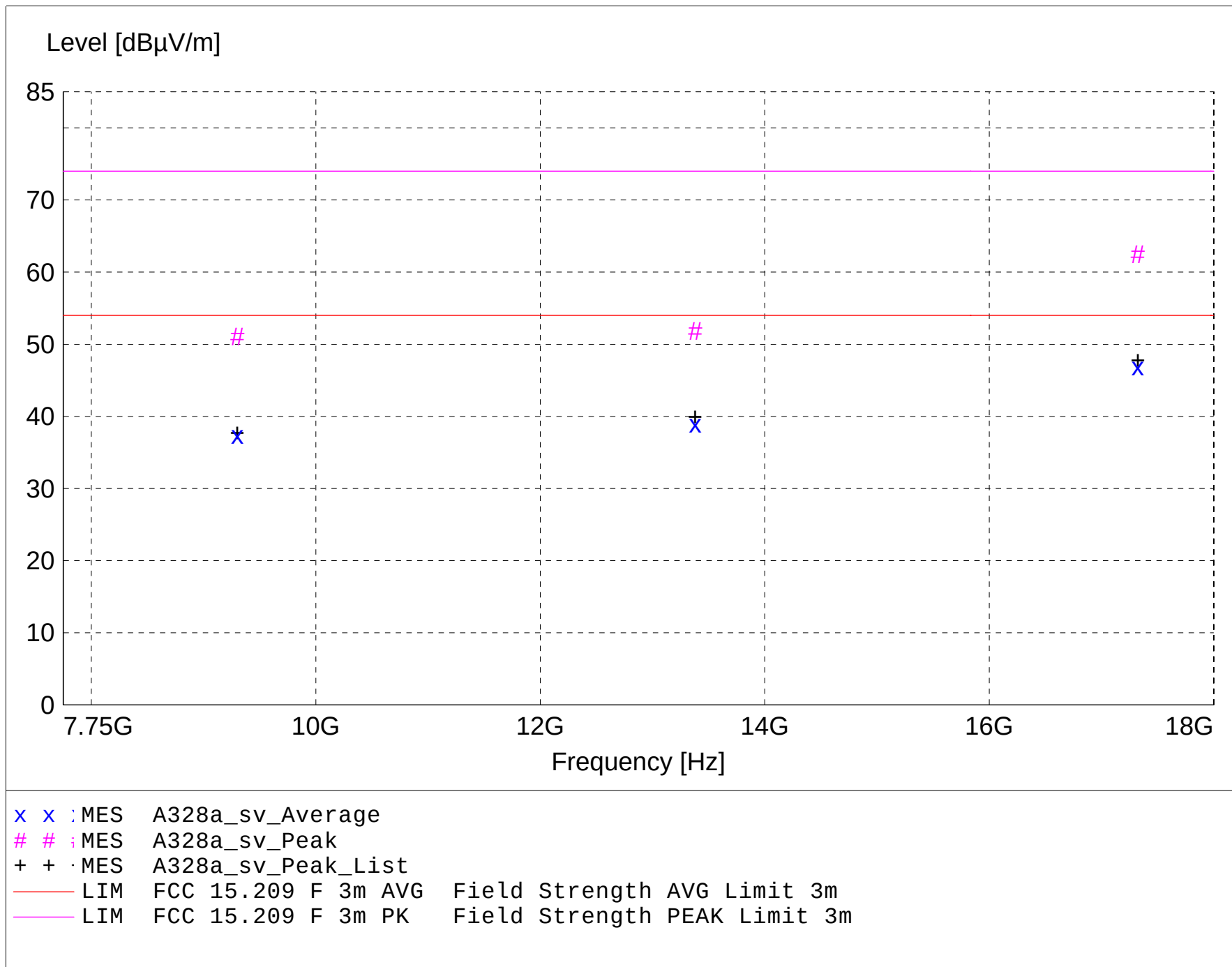
TEXT: "Vert 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{array}{rclcl} \text{Total Level(dB}\mu\text{V/m)} & = & \text{Level(dB}\mu\text{V)} & + & \text{System Loss(dB)} & + & \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 & & = 35.51 & + & (-22.1) & + & 11.20 \end{array}$$
$$\begin{array}{rclcl} \text{Margin(dB)} & = & \text{Limit(dB}\mu\text{V/m)} & - & \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 & = & 40 & - & 24.6 \end{array}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector
- Background Scan Peak Detector (Optional)
- Background Scan Average Detector (Optional)



MEASUREMENT RESULT: "A328a_sv_Final"

3/28/2014 10:07AM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
17323.660000	39.15	43.51	-35.7	46.9	54.0	7.1	1.51	0	AVERAGE	20 MHz; mid ch
17323.660000	54.65	43.51	-35.7	62.4	74.0	11.6	1.51	0	MAX PEAK	20 MHz; mid ch
13380.200000	35.26	40.16	-36.5	38.9	54.0	15.1	1.50	0	AVERAGE	noise floor
9300.800000	35.10	37.57	-35.3	37.4	54.0	16.6	1.50	0	AVERAGE	noise floor
13380.200000	48.15	40.16	-36.5	51.8	74.0	22.2	1.50	0	MAX PEAK	noise floor
9300.800000	48.83	37.57	-35.3	51.1	74.0	22.9	1.50	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

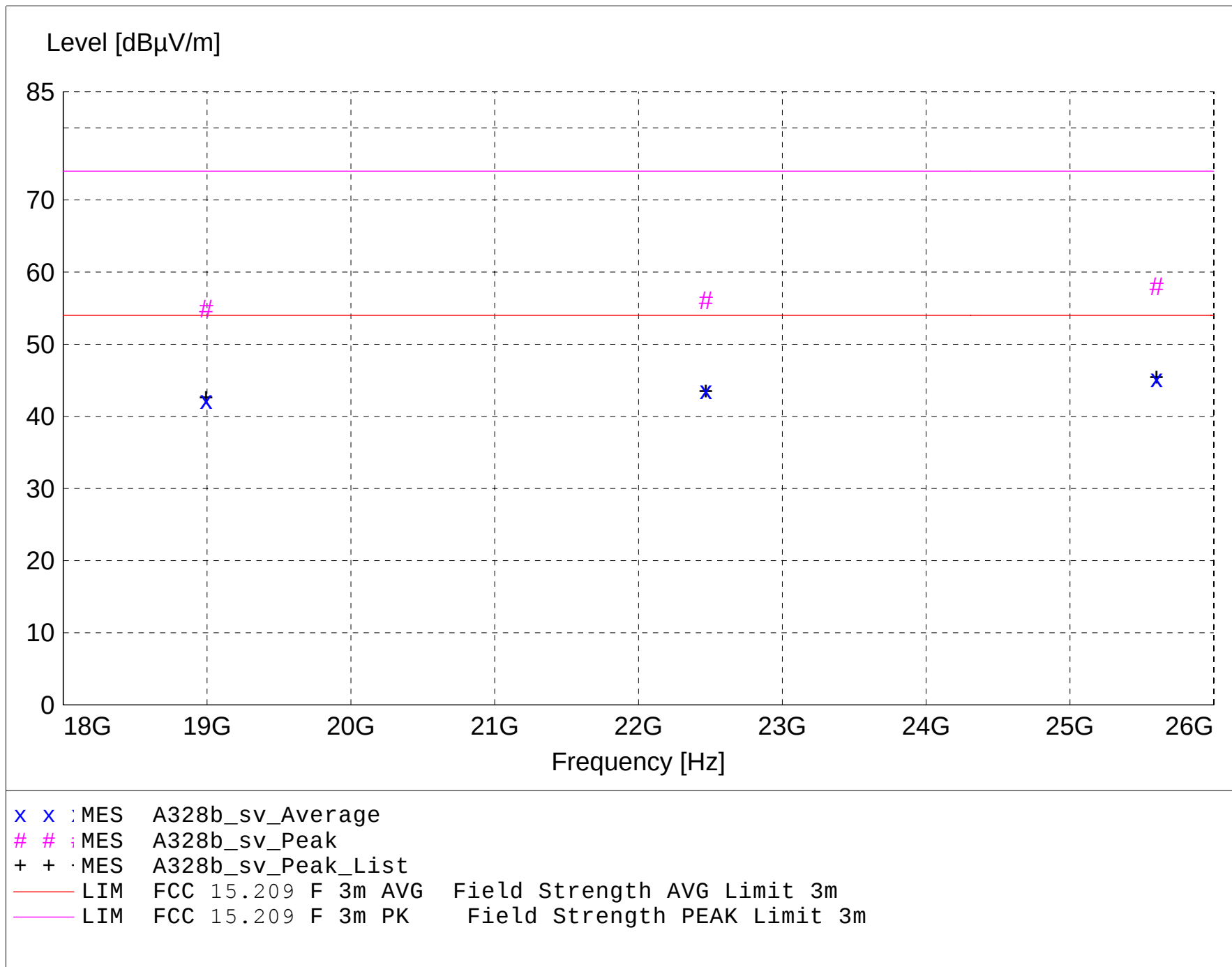
TEXT: "Vert 3 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 3 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{aligned} \text{Total Level(dB}\mu\text{V/m)} &= \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 &= 35.51 + (-22.1) + 11.20 \end{aligned}$$
$$\begin{aligned} \text{Margin(dB)} &= \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 &= 40 - 24.6 \end{aligned}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328b_sv_Final"

3/28/2014 1:05PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
25602.400000	34.69	46.53	-36.0	45.2	54.0	8.8	1.40	0	AVERAGE	noise floor
22468.400000	38.07	46.35	-40.8	43.6	54.0	10.4	1.40	0	AVERAGE	noise floor
18994.200000	37.04	44.82	-39.6	42.3	54.0	11.7	1.40	0	AVERAGE	noise floor
25602.400000	47.48	46.53	-36.0	58.0	74.0	16.0	1.40	0	MAX PEAK	noise floor
22468.400000	50.58	46.35	-40.8	56.1	74.0	17.9	1.40	0	MAX PEAK	noise floor
18994.200000	49.65	44.82	-39.6	54.9	74.0	19.1	1.40	0	MAX PEAK	noise floor

FCC Part 15.209

Electric Field Strength

EUT: ePMP STA 5.7 GHz OFDM, ESN: 000456C560B4
Manufacturer: Cambium Networks
Operating Condition: 68 deg. F; 32% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Restricted Band emissions; 20 & 40 MHz ch BW; L,M,H channels
Comment: Both ports Tx setting 28.5; with 30 dBi Dish antenna
Date: 03-28-2014

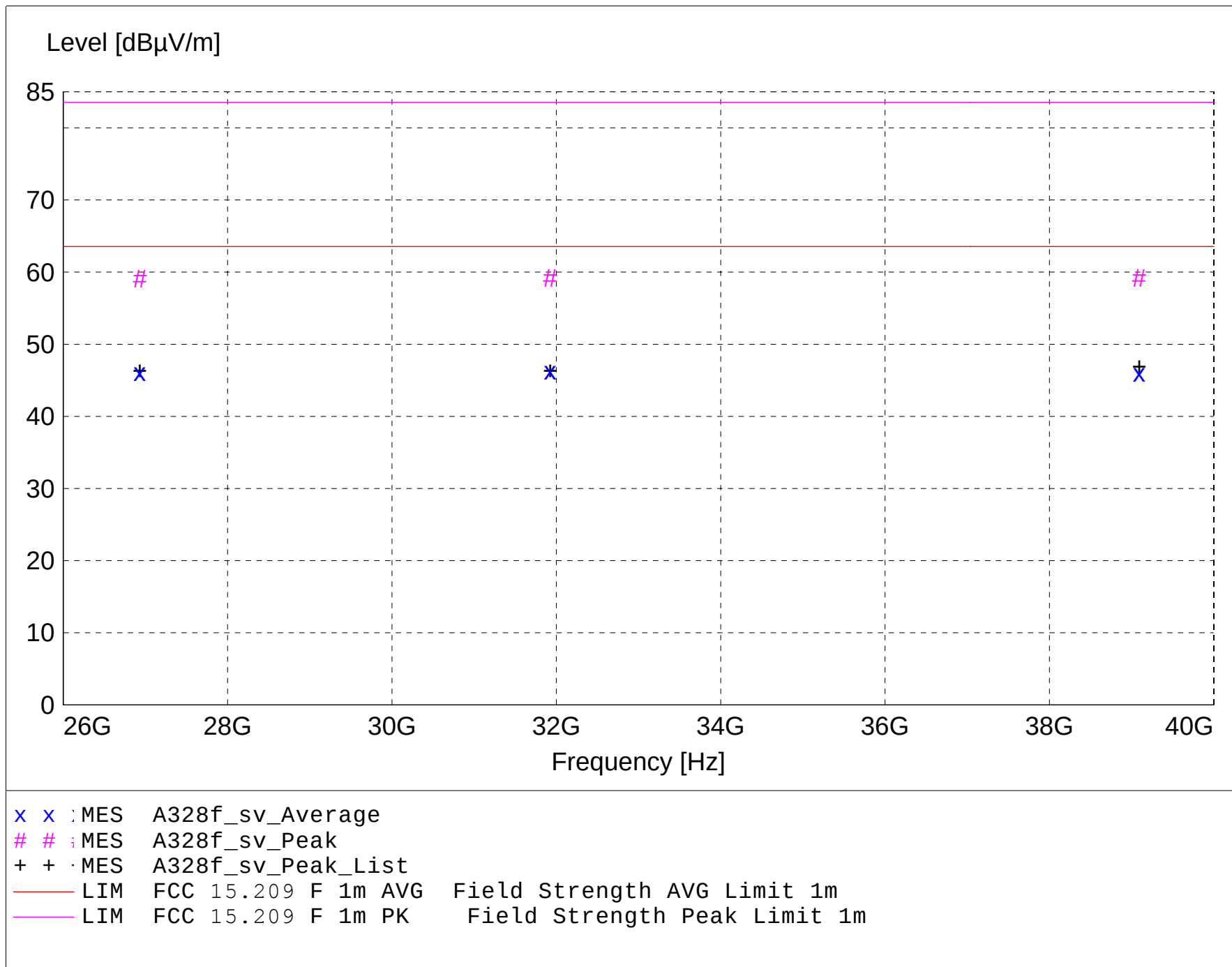
TEXT: "Vert 1 meters"

Short Description: Test Set-up

Test Set-up: EUT Measured at 1 Meters with VERTICAL Antenna Polarization

Sample Equations:
$$\begin{aligned} \text{Total Level(dB}\mu\text{V/m)} &= \text{Level(dB}\mu\text{V)} + \text{System Loss(dB)} + \text{Antenna Factor(dB}\mu\text{V/m)} \\ 24.6 &= 35.51 + (-22.1) + 11.20 \end{aligned}$$
$$\begin{aligned} \text{Margin(dB)} &= \text{Limit(dB}\mu\text{V/m)} - \text{Total Level(dB}\mu\text{V/m)} \\ 15.4 &= 40 - 24.6 \end{aligned}$$

Graph Markers: + Frequency marker (Level of marker not related to final level)
| Final maximized level using Quasi-Peak detector
X Final maximized level using Average detector
Final maximized level using Peak detector



MEASUREMENT RESULT: "A328f_sv_Final"

3/28/2014 2:46PM

Frequency	Level	Antenna	System	Total	Limit	Margin	Height	EuT	Final	Comment
MHz	dBμV	Factor	Loss	Level			Ant.	Angle	Detector	
		dBμV/m	dB	dBμV/m	dBμV/m	dB	m	deg		
31926.600000	48.79	47.82	-50.3	46.3	63.5	17.3	1.50	0	AVERAGE	noise floor
26932.600000	50.18	46.37	-50.4	46.1	63.5	17.4	1.50	0	AVERAGE	noise floor
39093.000000	47.34	45.73	-47.0	46.0	63.5	17.5	1.50	0	AVERAGE	noise floor
39093.000000	60.53	45.73	-47.0	59.2	83.5	24.3	1.50	0	MAX PEAK	noise floor
31926.600000	61.69	47.82	-50.3	59.2	83.5	24.4	1.50	0	MAX PEAK	noise floor
26932.600000	63.13	46.37	-50.4	59.1	83.5	24.5	1.50	0	MAX PEAK	noise floor



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C058900P122A
Report Number: 19896
DLS Project: 6493

END OF REPORT

Revision #	Date	Comments	By
1.0	04-04-2014	Preliminary Release	JS
1.1	04-17-2014	Model Number correction	JS