



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

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.

PART 2 - Sections B7.0 to B12.0

THE FOLLOWING MEETS THE ABOVE TEST SPECIFICATION

Formal Name: EPMP Station 2.4 GHz OFDM MIMO Radio

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

Frequency Range: 2412 to 2462 MHz (20 MHz bandwidth)
2427 to 2452 MHz (40 MHz bandwidth)

Please see the Users' Manual for the channel specifications for use with the Dish antenna.

Test Configuration: Stand-alone

Model Number(s): Connectorized: C024900P021A, C024900A021A
Integrated: C024900P031A, C024900C031A

Model(s) Tested: Connectorized: C024900P021A
Integrated: C024900P031A

Serial Number(s): Connectorized: MAC Address: 000456C2CE92
Integrated: MAC Address: 000456C2CE05

Date of Tests: January to March, 2014 (non-consecutive days)

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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166 South Carter, Genoa City, WI 53128

Company:
Model Tested:
Report Number:
DLS Project:

Cambium Networks
C024900P021A & C024900P031A
19738
6334

SIGNATURE PAGE

Tested By:

A handwritten signature in black ink that reads "Craig Brandt".

Craig Brandt
Senior Test Engineer

Reviewed By:

A handwritten signature in black ink that reads "William Stumpf".

William Stumpf
OATS Manager

Approved By:

A handwritten signature in black ink that reads "Brian J. Mattson".

Brian Mattson
General Manager



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Appendix B – Measurement Data

B7.0 Maximum Unwanted Emission Levels into Restricted Frequency Bands - Radiated

Rule Section: FCC 15.205

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

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.

Limit: FCC Part 15.209

Results: Passed

Note: Tested with the 12 dBi integral Patch antenna.
Both transmit chains were active at maximum power during this test.
The Ethernet cable was unplugged from the remote computer in order to pass radiated emissions below 1 GHz.

Electric Field Strength

EUT: Cambium Networks
Manufacturer: EPMP 2.4 GHz STA with 12 dBi Integral antenna
Operating Condition: 66 deg. F; 17% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Low, Mid, & High channels
Comment: Continuous Tx 20 & 40 MHz channel BW's; Power setting 27
Date: 01-28-2014

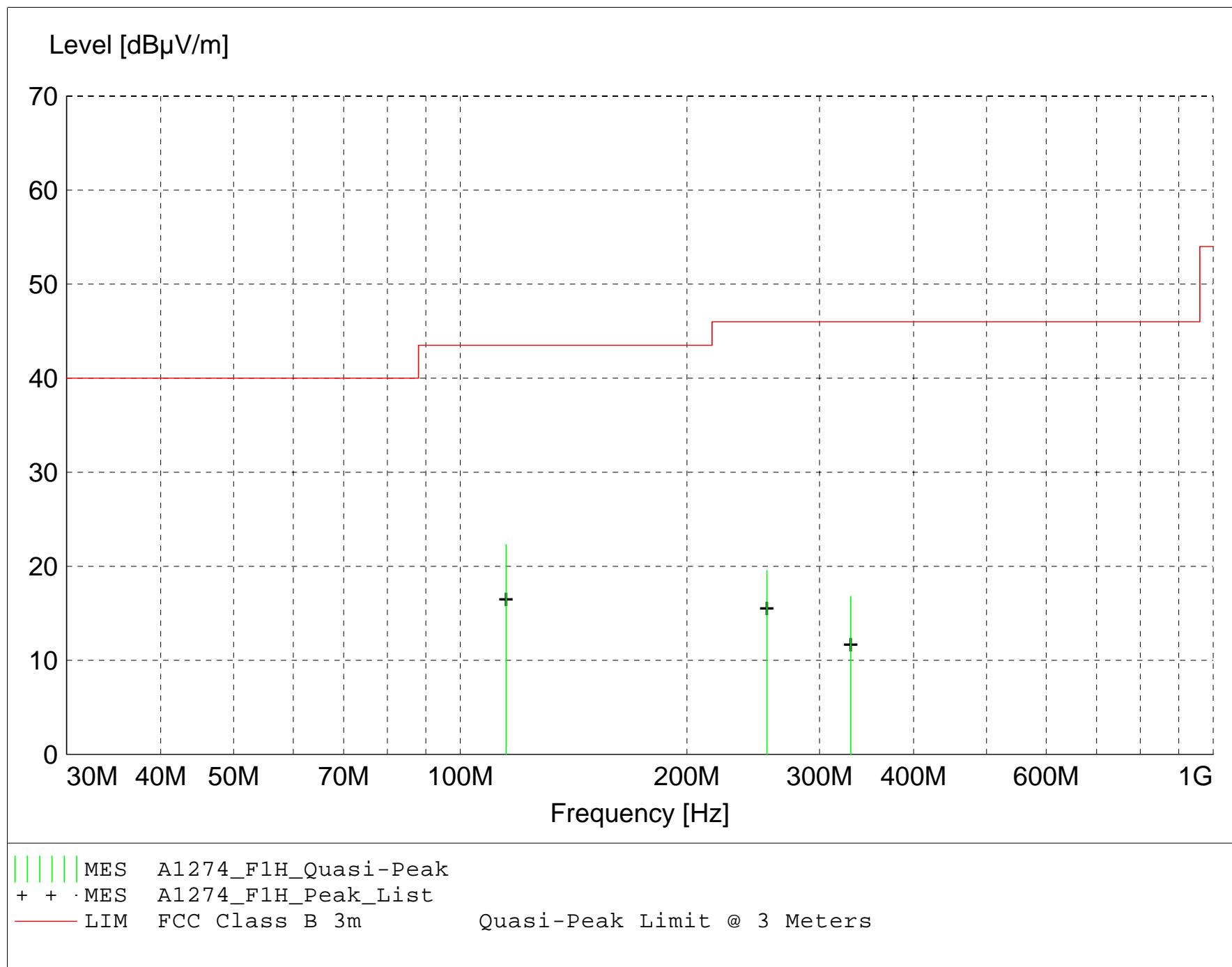
TEXT: "Horz 3 meters"

Short Description: Test Set-up

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

Equations: Total Level(dB μ V/m) = Level(dB μ V) + System Loss(dB) + Antenna Factor(dB μ V/m)
Margin(dB) = Limit(dB μ V/m) - Total Level(dB μ 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: "A1274_F1H_Final"

1/28/2014 1:46PM

Frequency MHz	Level dB μ V	Antenna Factor dB μ V/m	System Loss dB	Total Level dB μ V/m	Limit dB μ V/m	Margin dB	Height Ant. m	EuT Angle deg	Final Detector	Comment
115.025000	33.01	12.31	-23.0	22.3	43.5	21.2	3.00	80	QUASI-PEAK	None
255.400000	28.84	12.72	-22.0	19.5	46.0	26.5	1.00	90	QUASI-PEAK	None
330.000000	23.85	14.60	-21.6	16.8	46.0	29.2	1.20	90	QUASI-PEAK	None

Electric Field Strength

EUT: Cambium Networks
Manufacturer: EPMP 2.4 GHz STA with 12 dBi Integral antenna
Operating Condition: 66 deg. F; 17% R.H.
Test Site: DLS O.F. Site 2
Operator: Craig B
Test Specification: Low, Mid, & High channels
Comment: Continuous Tx 20 & 40 MHz channel BW's; Power setting 27
Date: 01-28-2014

TEXT: "Vert 3 meters"

Short Description: Test Set-up

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

Sample Equations: Total Level(dB μ V/m) = Level(dB μ V) + System Loss(dB) + Antenna Factor(dB μ V/m)
24.6 = 35.51 + (-22.1) + 11.20

Margin(dB) = Limit(dB μ V/m) - Total Level(dB μ V/m)
15.4 = 40 - 24.6

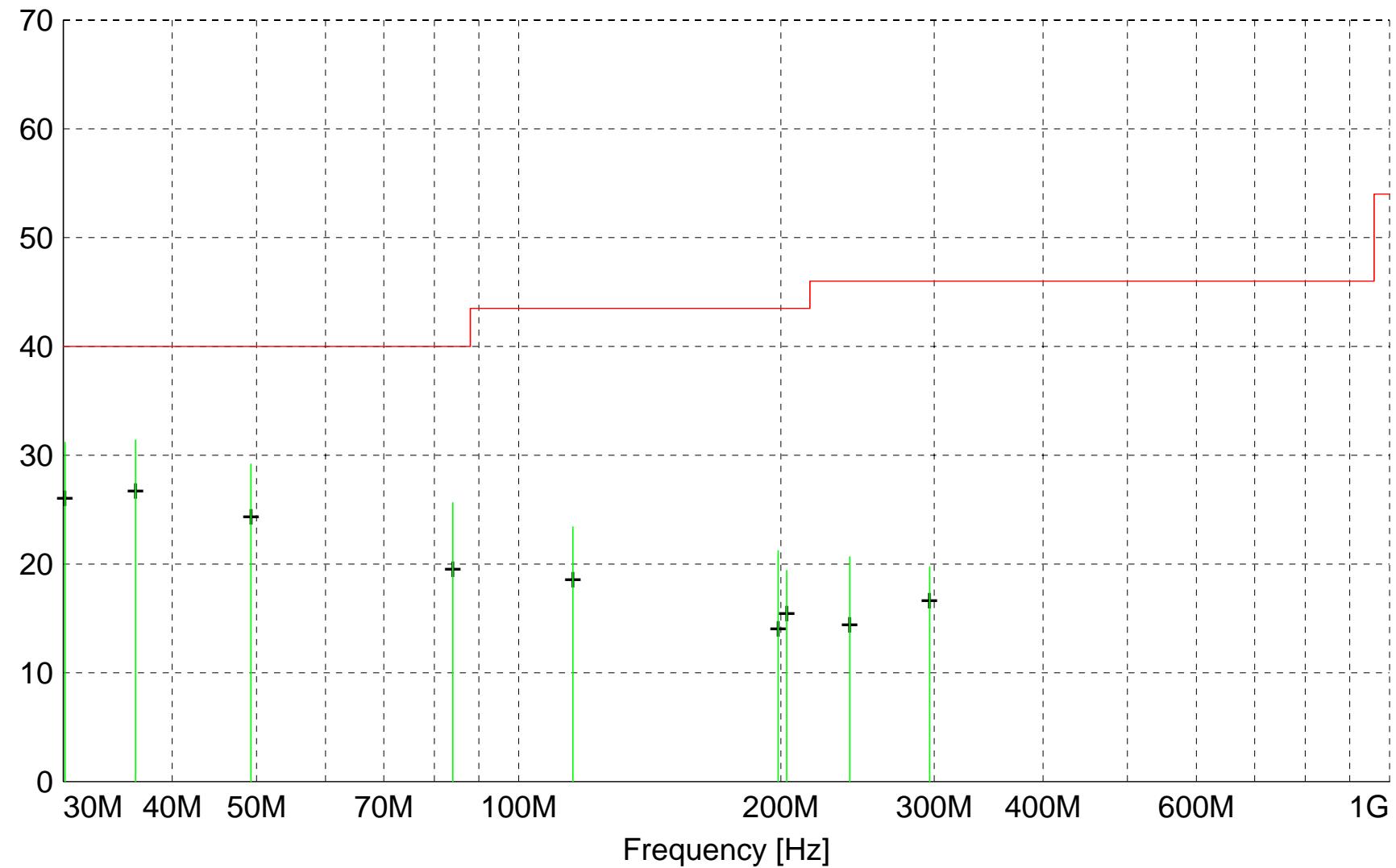
Graph Markers: + Frequency marker (Level of marker not related to final level)

| Final maximized level using Quasi-Peak detector

X Final maximized level using Average detector

Final maximized level using Peak detector

Level [dB μ V/m]



||||| MES A1274_F1V_Quasi-Peak
+ + · MES A1274_F1V_Peak_List
— LIM FCC Class B 3m

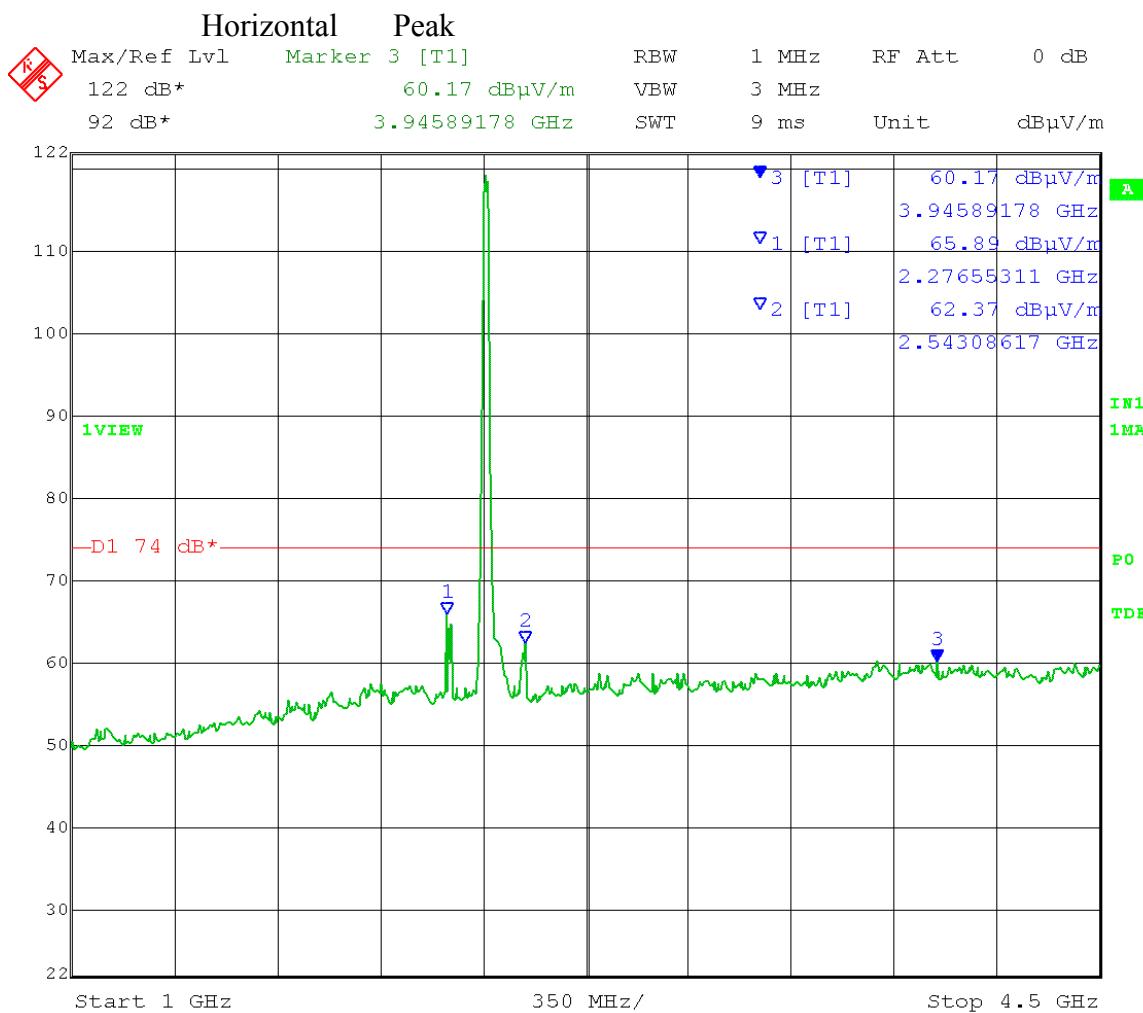
Quasi-Peak Limit @ 3 Meters

MEASUREMENT RESULT: "A1274_F1V_Final"

1/28/2014 1:17PM

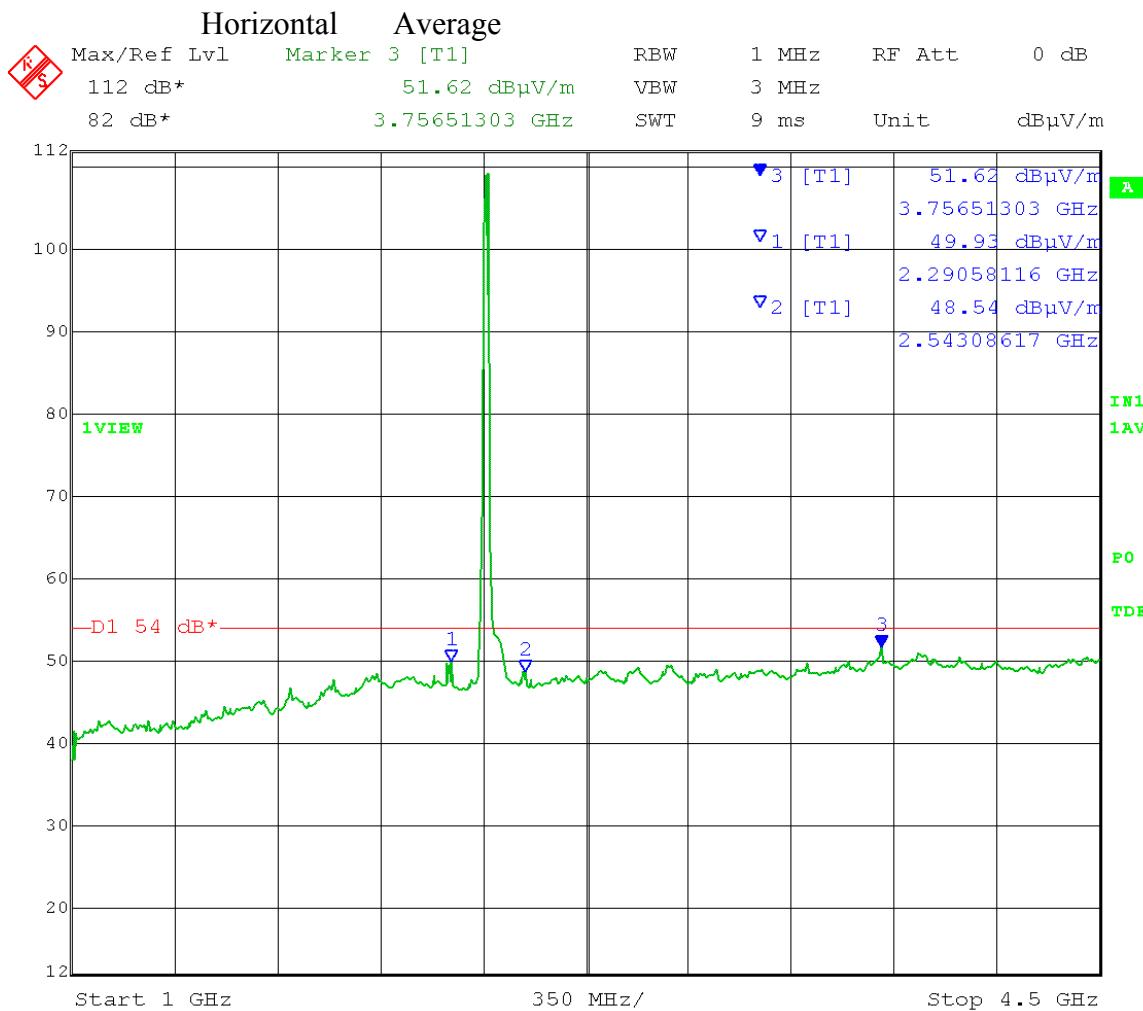
Frequency MHz	Level dB μ V	Antenna Factor	System Loss dB	Total dB μ V/m	Limit dB μ V/m	Margin dB	Height m	EuT Ant.	Final Angle deg	Comment	Detector
36.305000	44.05	11.50	-24.1	31.4	40.0	8.6	1.00	0	QUASI-PEAK	None	
30.130000	43.99	11.46	-24.3	31.2	40.0	8.8	1.00	0	QUASI-PEAK	None	
49.275000	41.30	11.80	-23.9	29.2	40.0	10.8	1.00	225	QUASI-PEAK	None	
84.000000	42.23	6.80	-23.4	25.6	40.0	14.4	1.00	170	QUASI-PEAK	None	
115.405000	34.04	12.38	-23.0	23.4	43.5	20.1	1.00	225	QUASI-PEAK	None	
198.595000	26.18	17.54	-22.5	21.2	43.5	22.3	1.00	170	QUASI-PEAK	None	
203.110000	29.87	12.01	-22.5	19.4	43.5	24.1	1.00	150	QUASI-PEAK	None	
239.980000	30.71	12.00	-22.0	20.7	46.0	25.3	1.00	225	QUASI-PEAK	None	
296.420000	27.35	14.19	-21.8	19.8	46.0	26.2	1.00	100	QUASI-PEAK	None	

Test Date: 01-29-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
Test: Maximum Unwanted Emission Levels - RADIATED
Operator: Craig B
Comment: RBW = 1 MHz VBW = 3 MHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold Low Channel Transmit = 2412 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
Output Power Setting 15 Channel bandwidth: 20 MHz
Both output chains active OFDM MCS15
Emission Level Measurement
Peak limit: 74 dB μ V/m at 3 meters
Frequency Range: 1 – 4.5 GHz



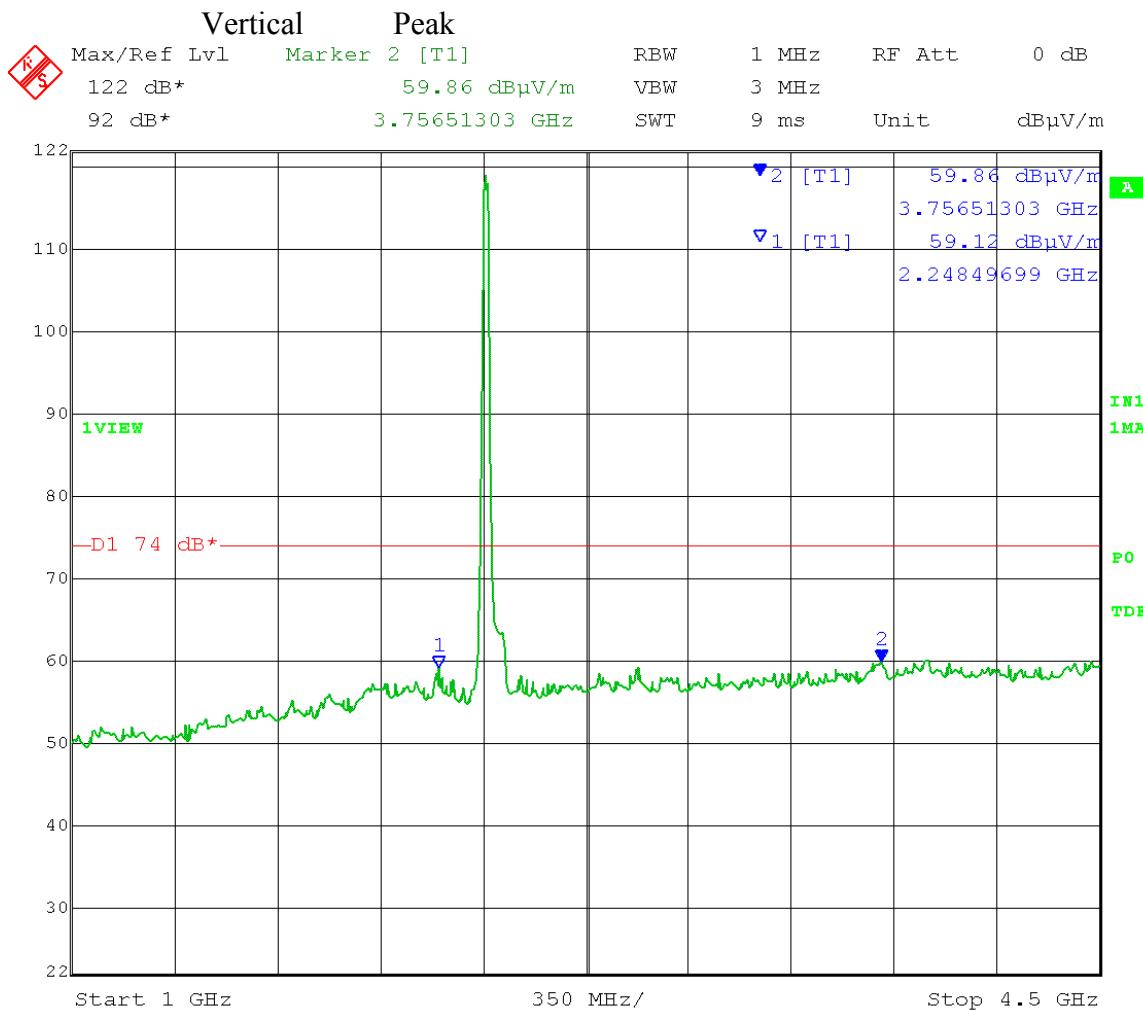
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



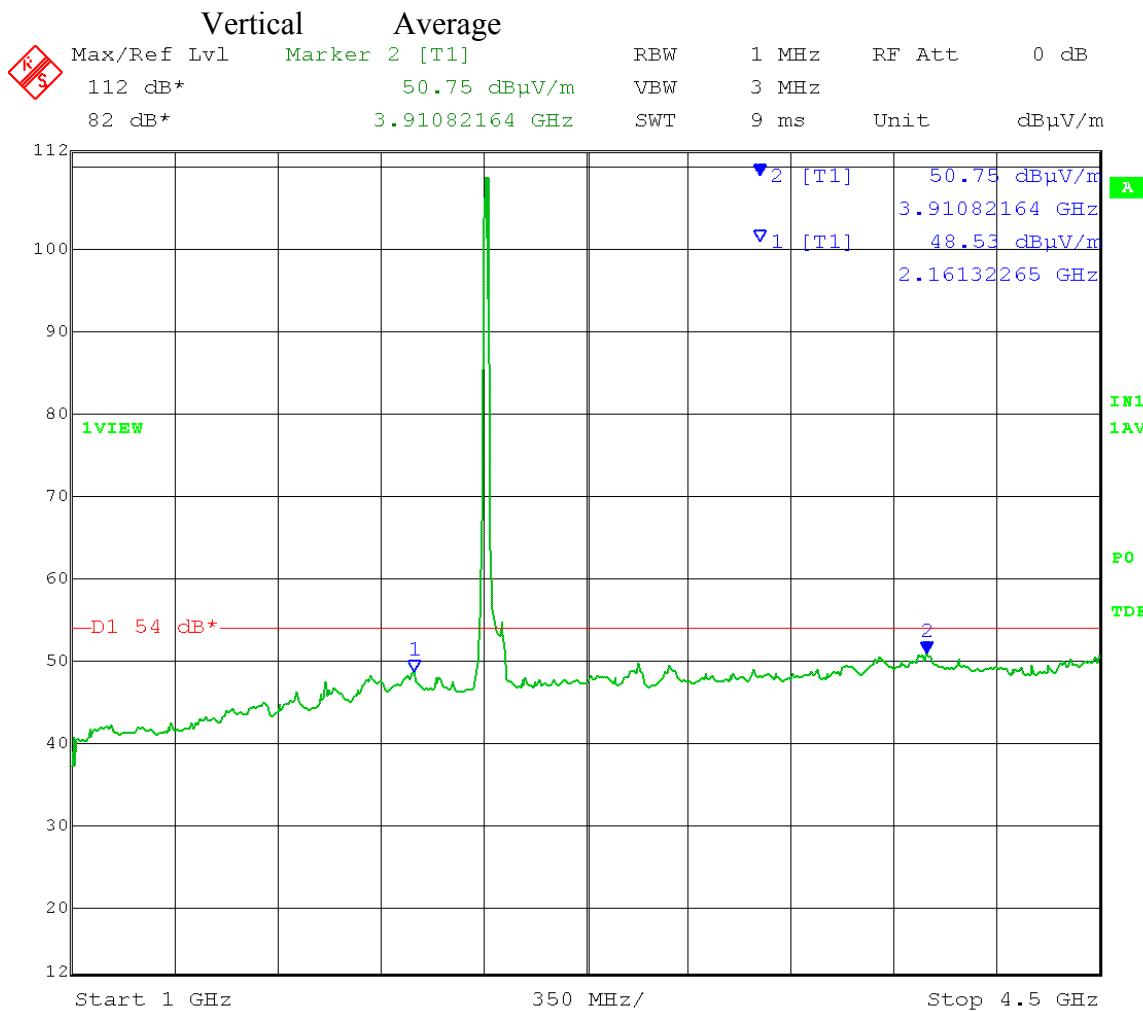
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



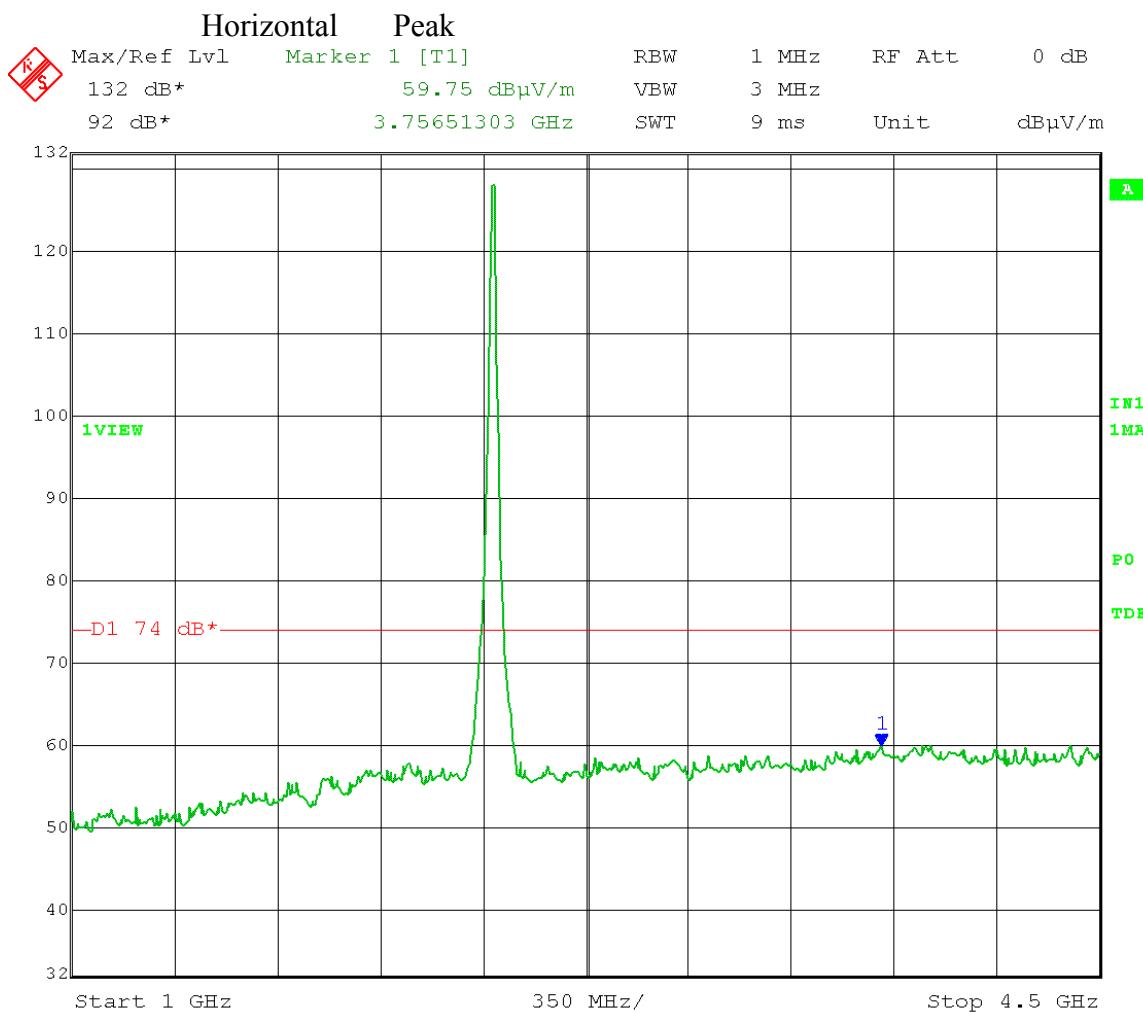
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



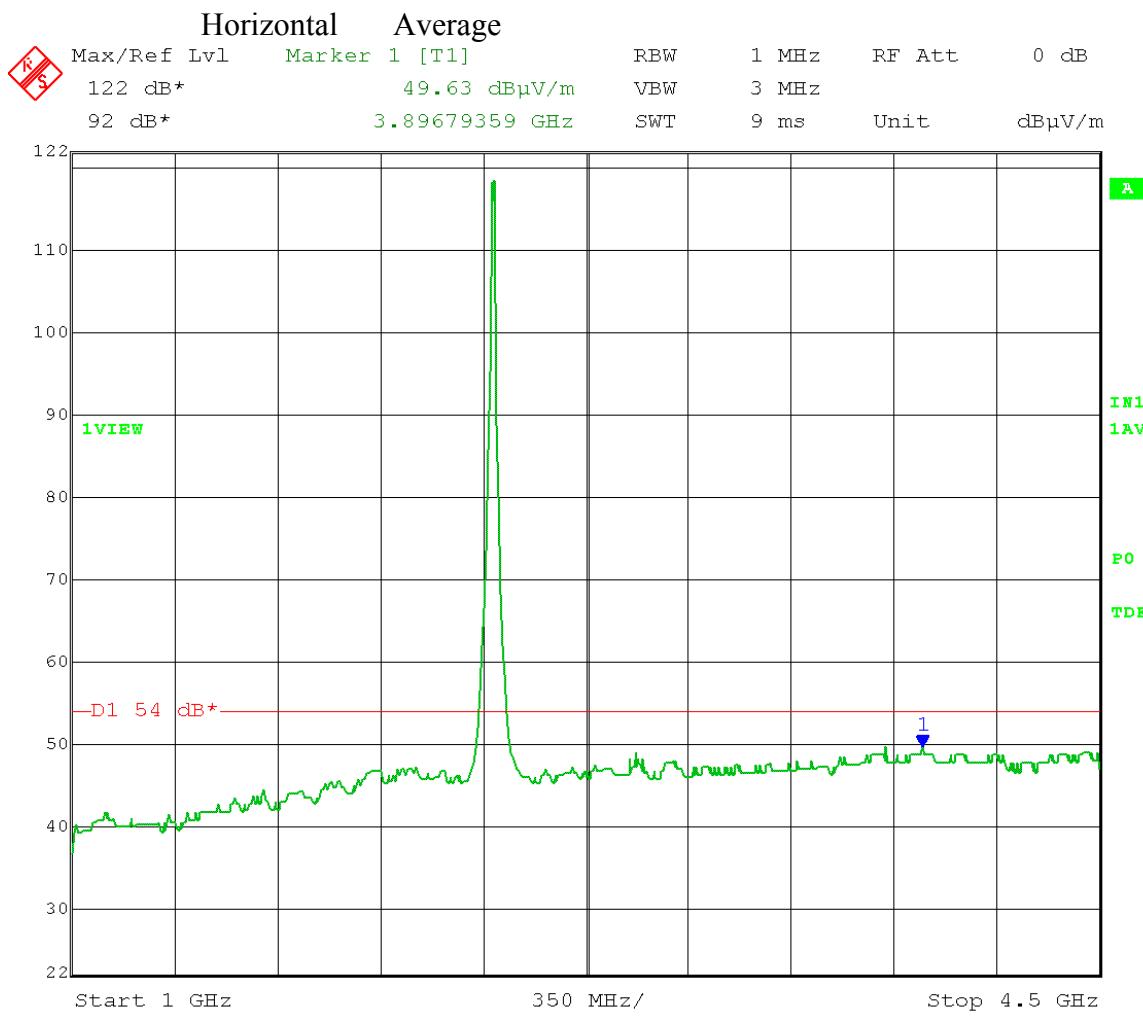
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-POINT OPERATION
 Output Power Setting 27 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



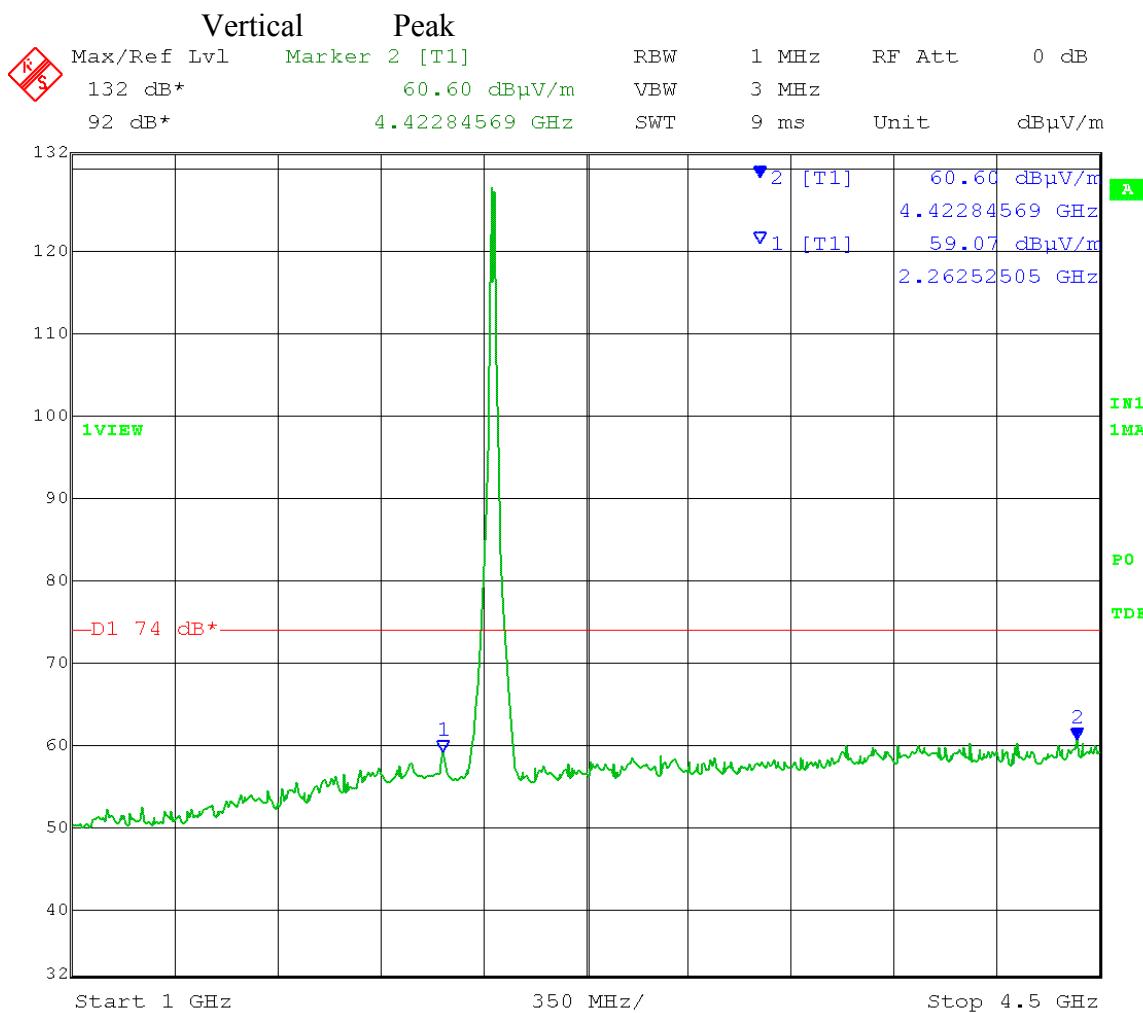
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-POINT OPERATION
 Output Power Setting 27 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



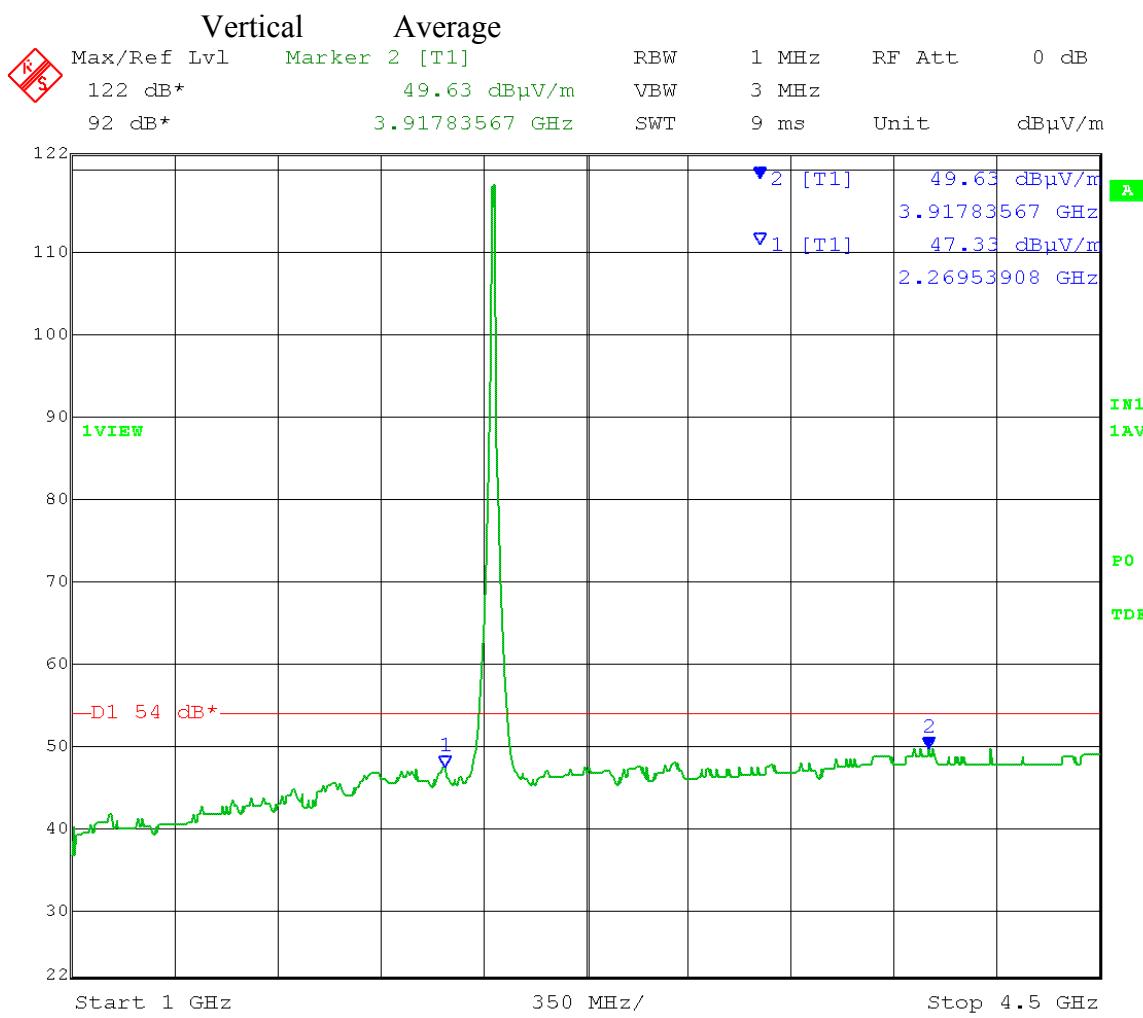
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-POINT OPERATION
 Output Power Setting 27 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



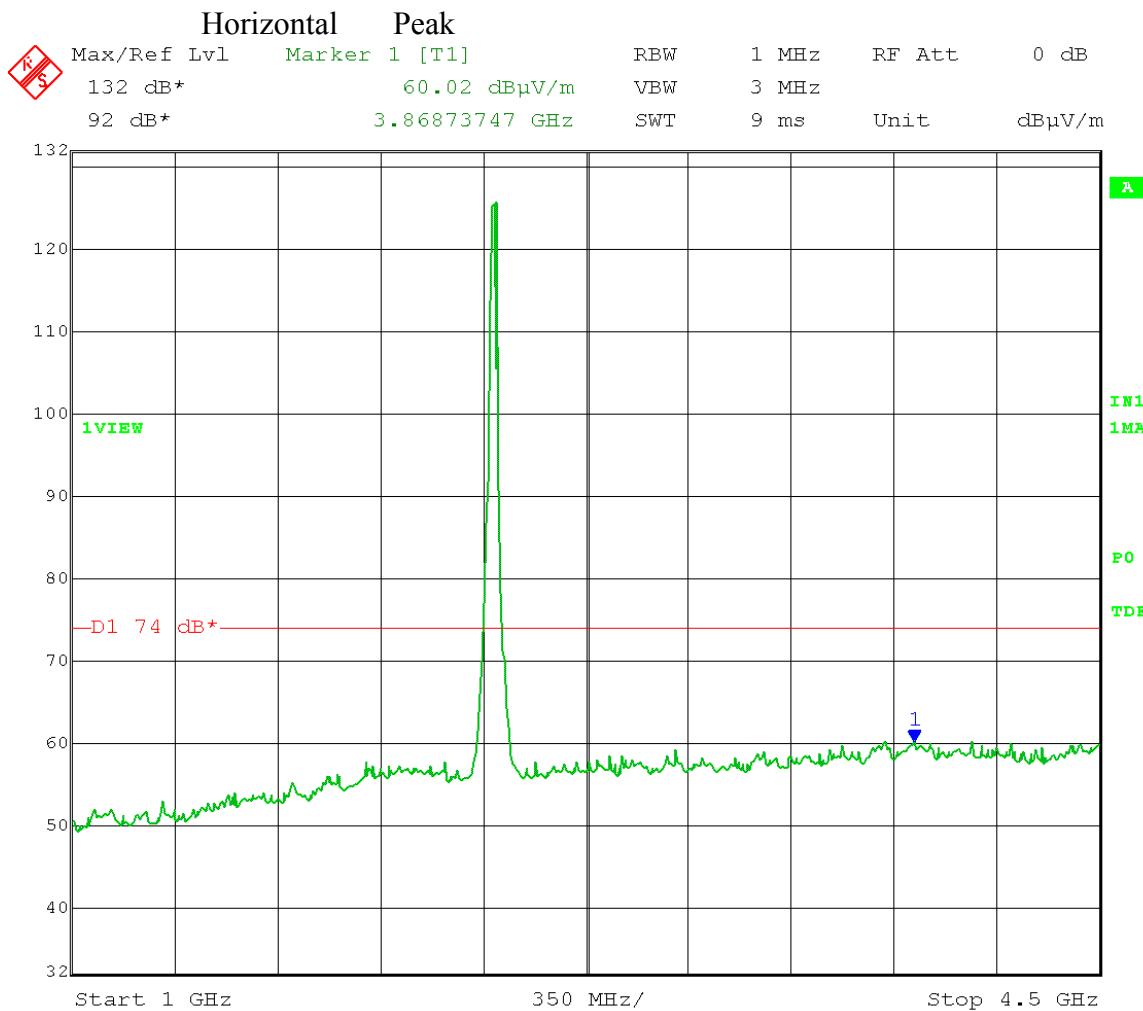
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-POINT OPERATION
 Output Power Setting 27 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



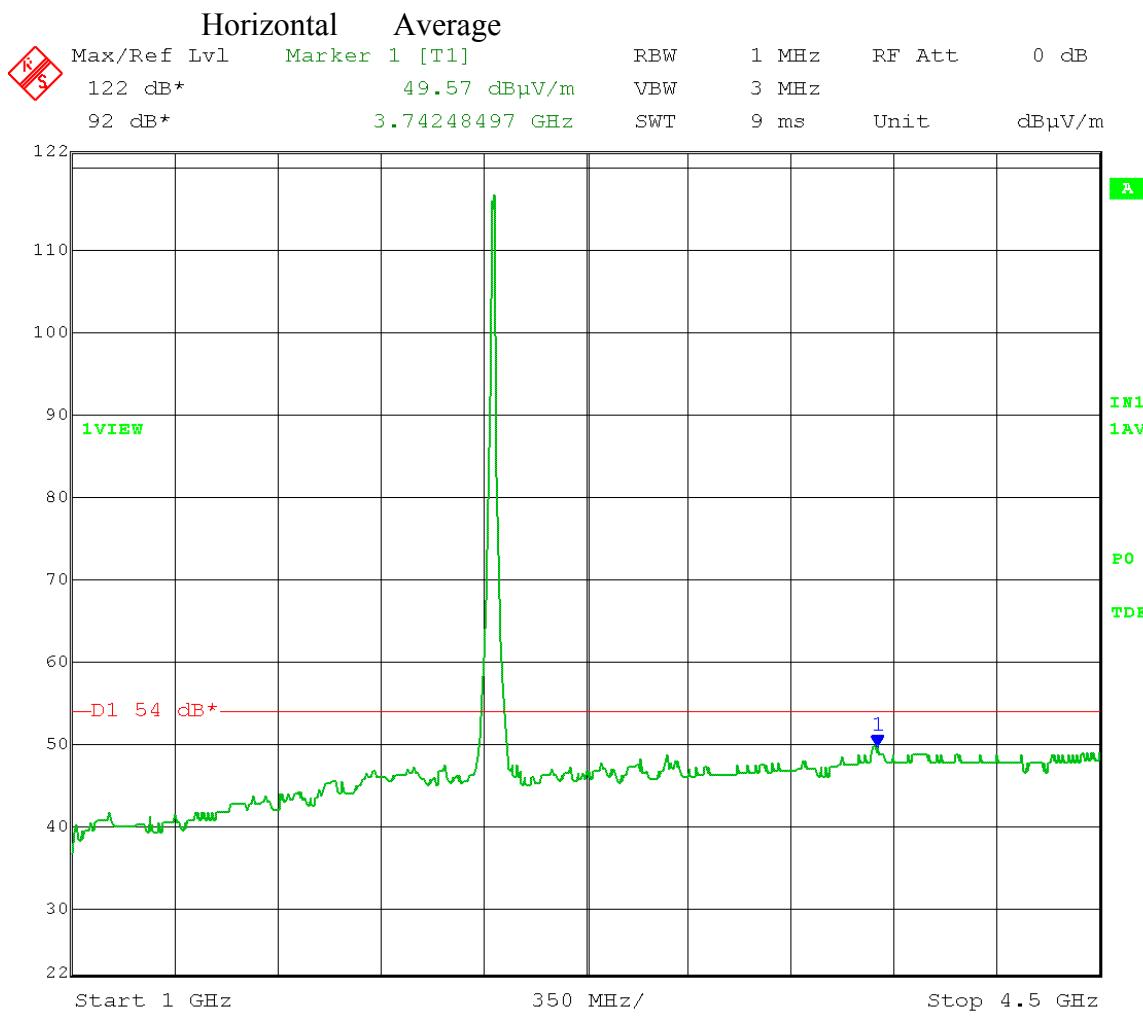
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 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 24.5 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



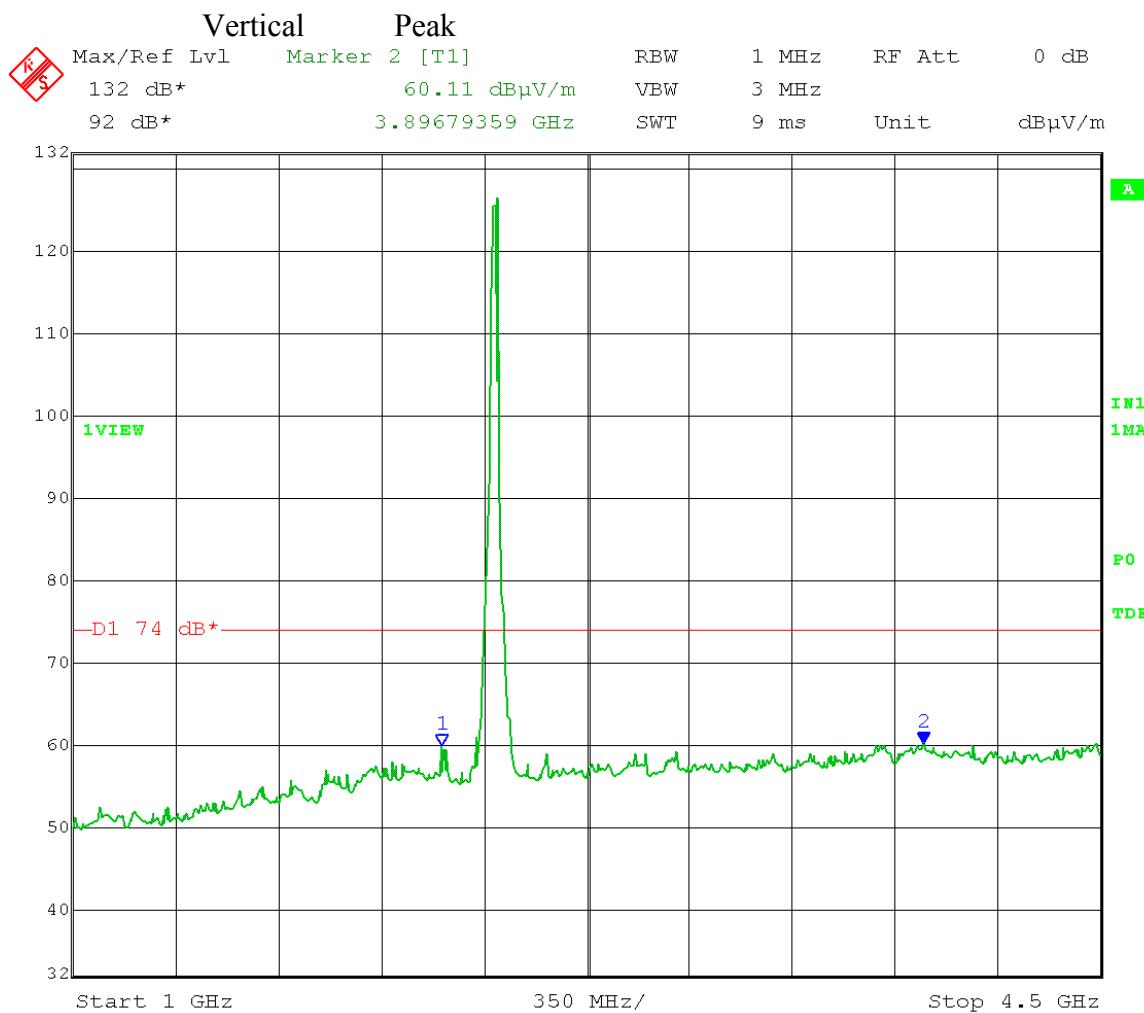
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 24.5 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



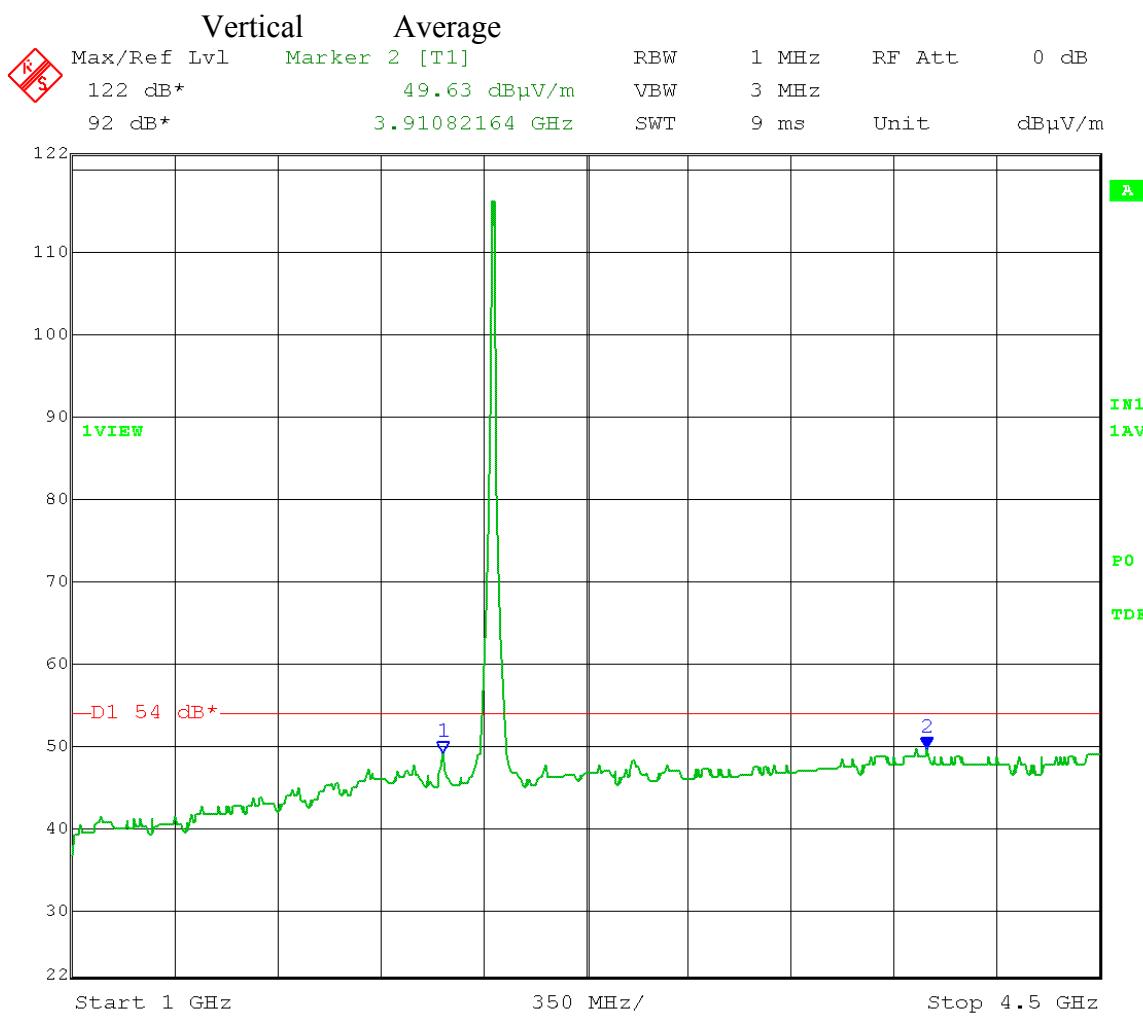
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 24.5 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



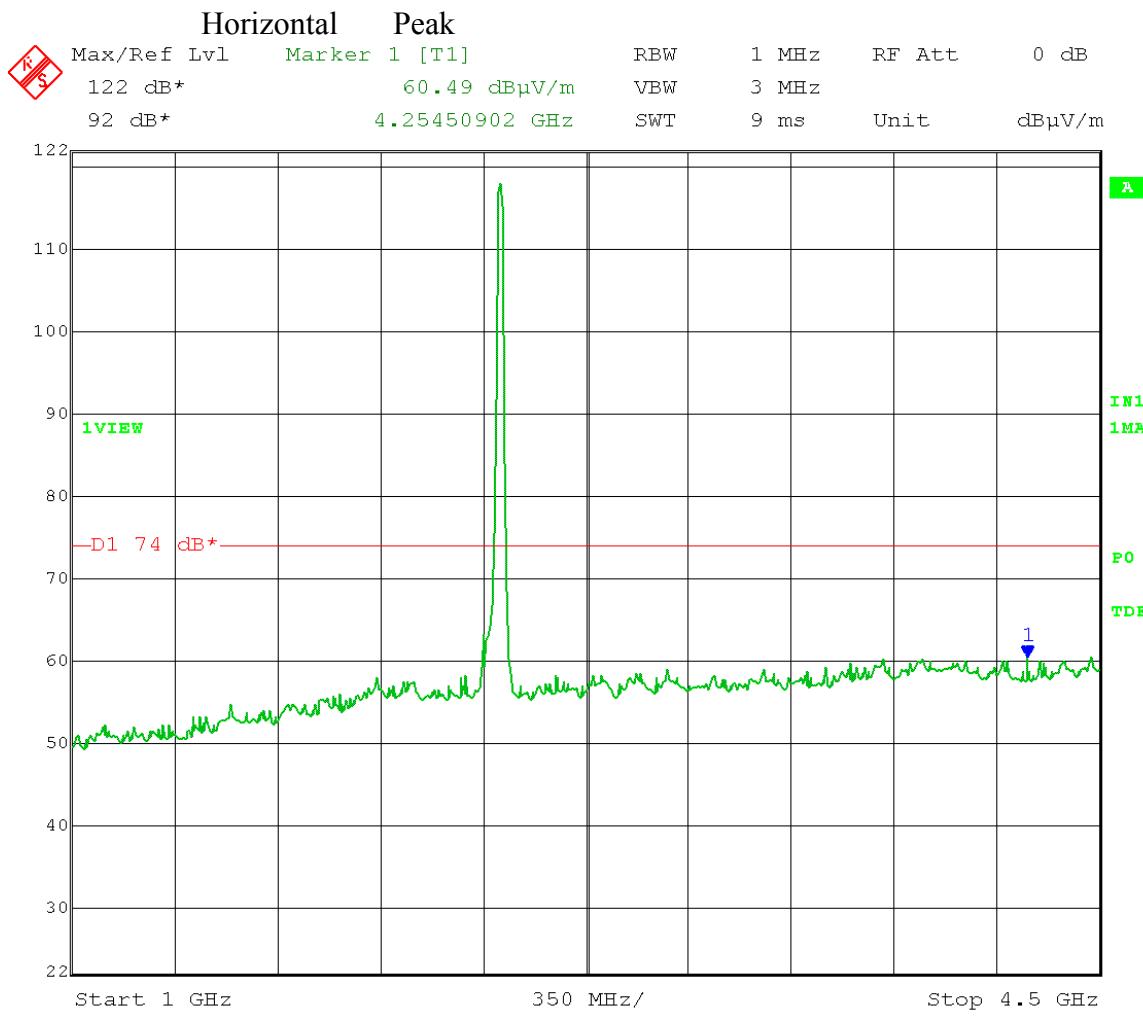
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Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 24.5 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



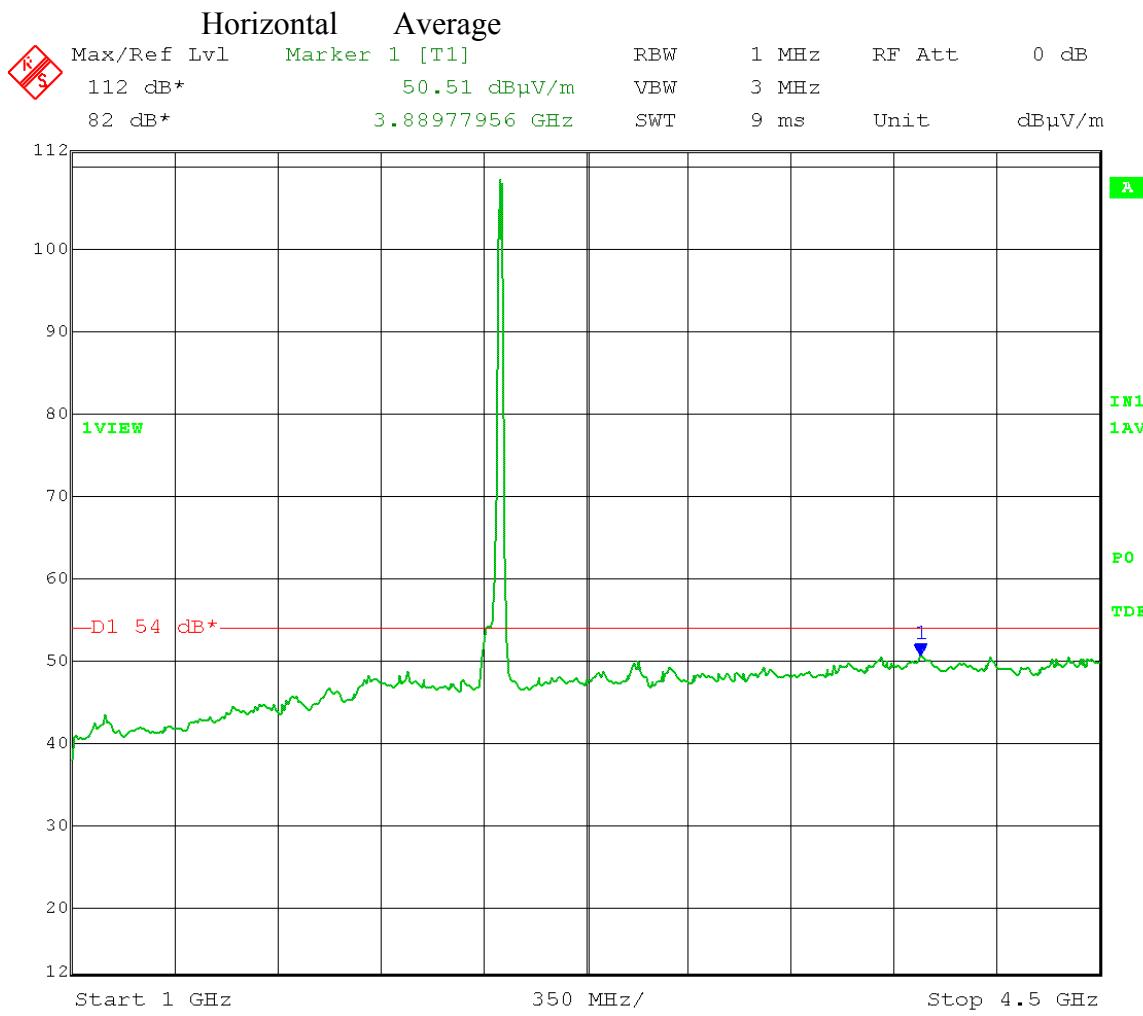
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Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



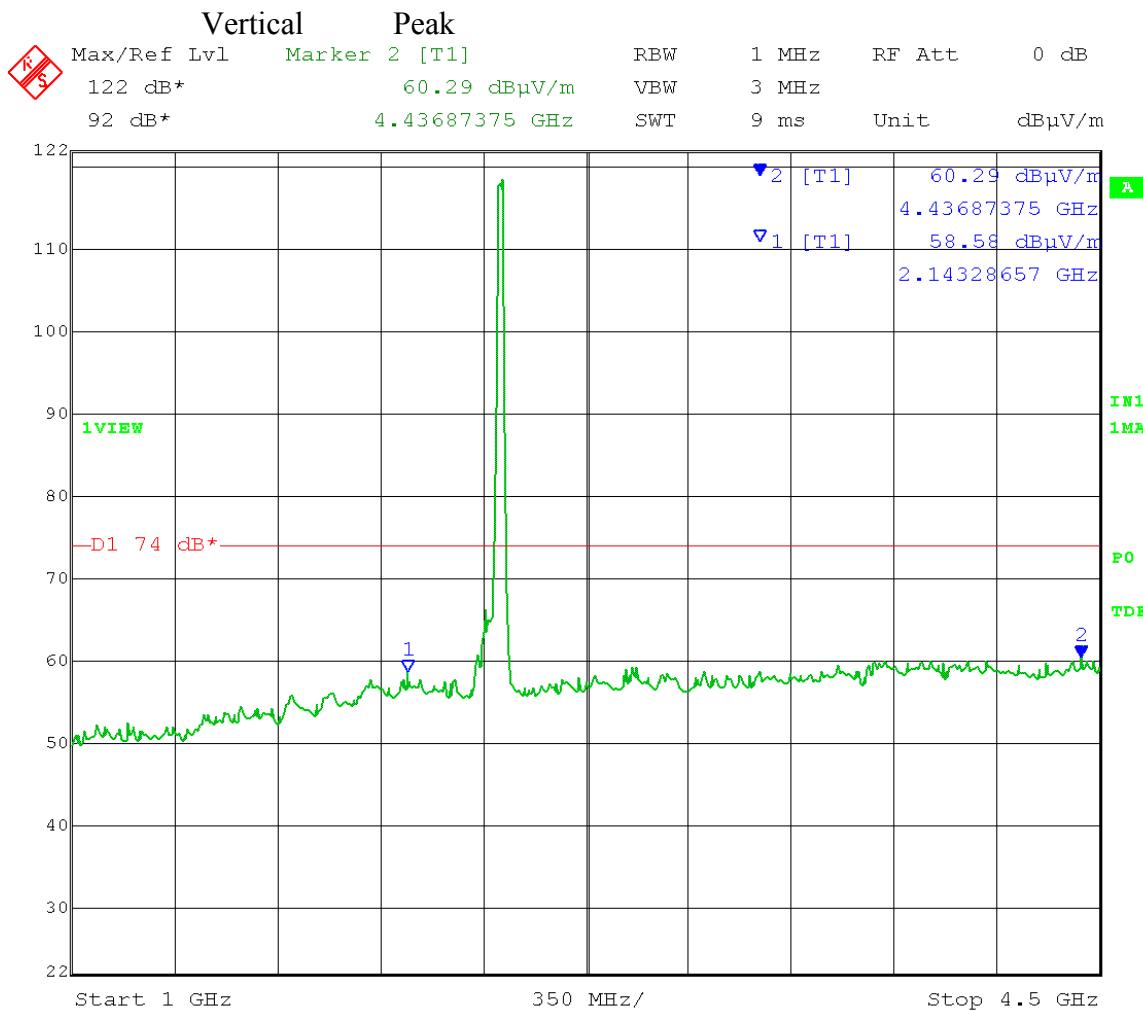
Date: 24.JAN.2014 13:18:44

Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



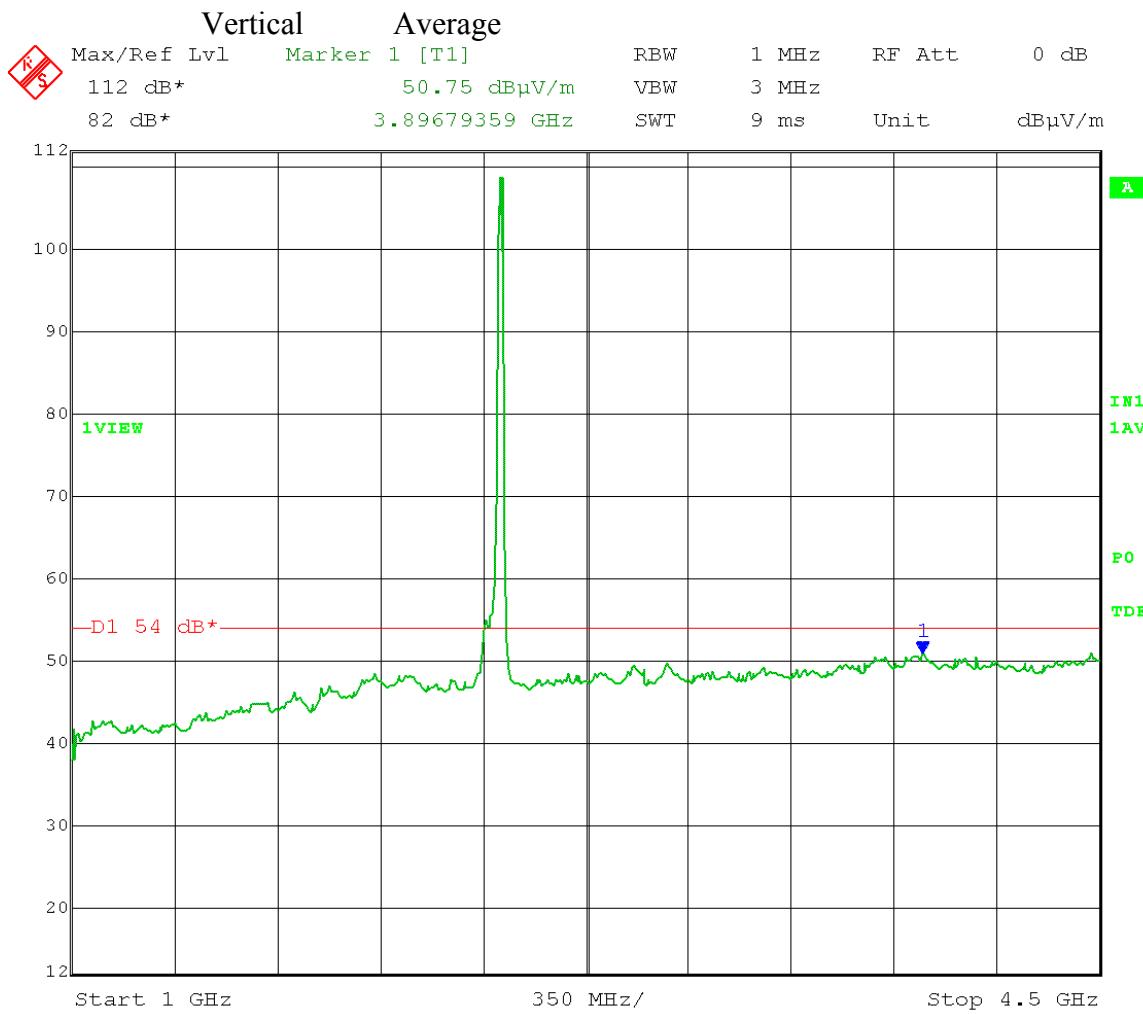
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Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



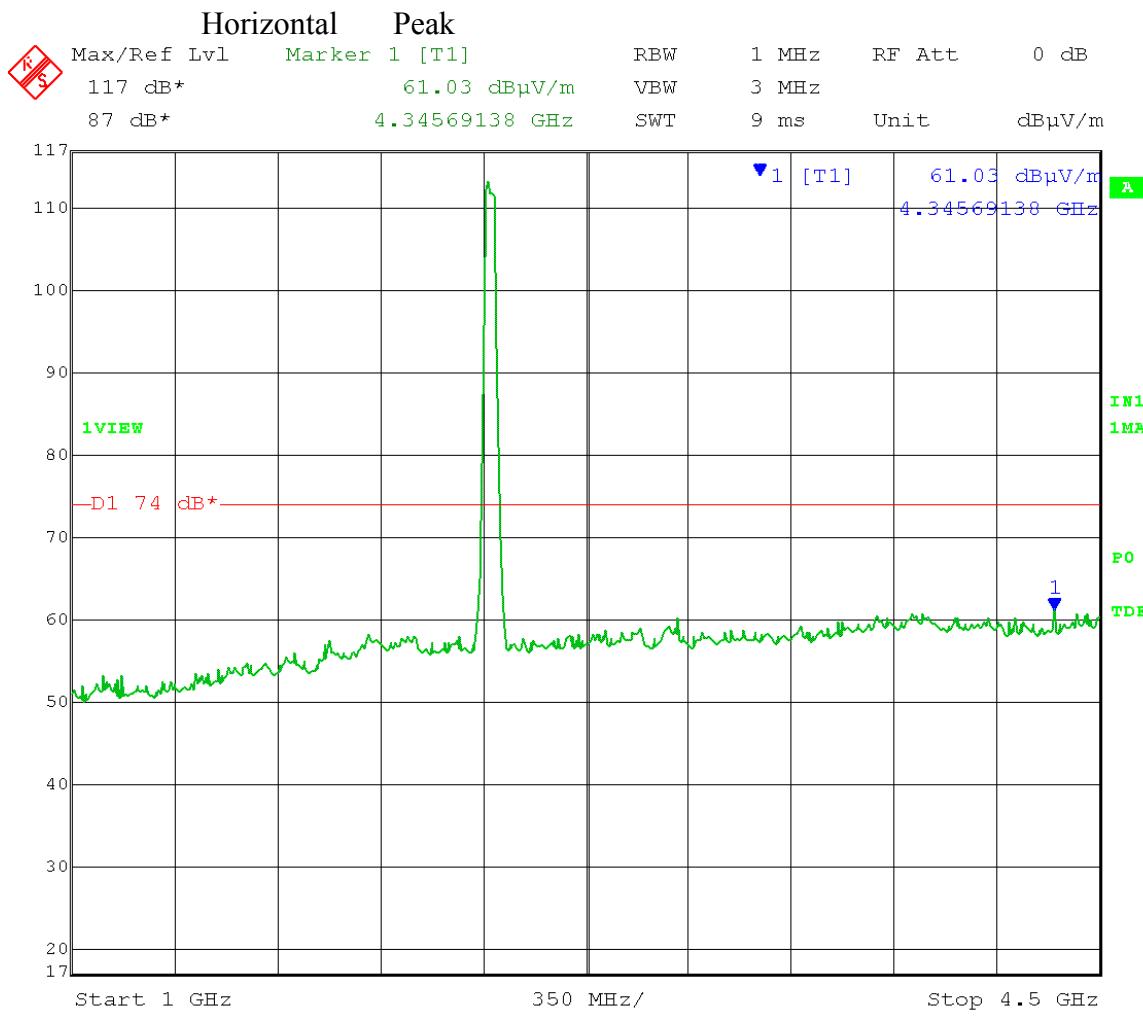
Date: 24.JAN.2014 13:26:22

Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 20 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



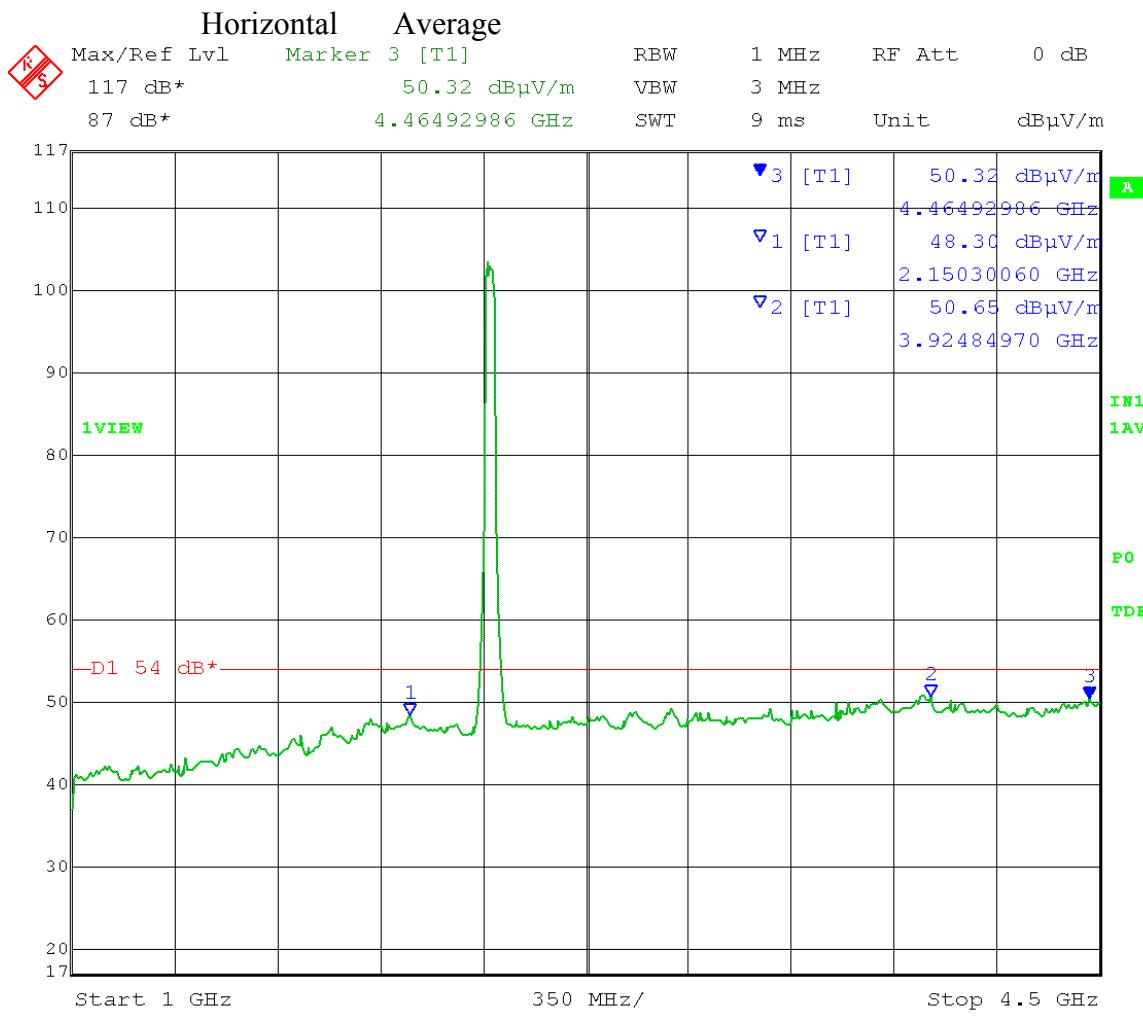
Date: 24.JAN.2014 13:27:19

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = **2427 MHz**
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 12.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



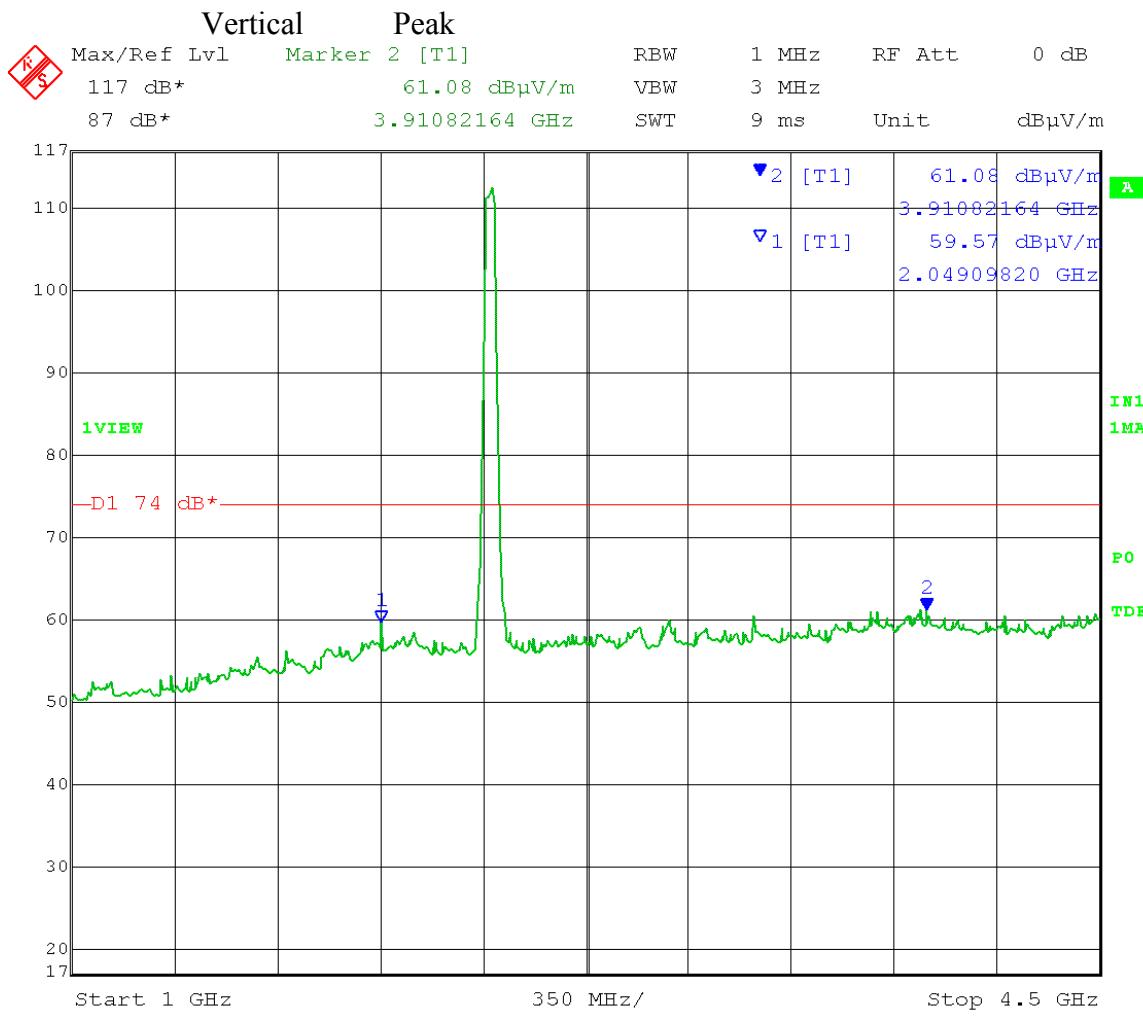
Date: 29.JAN.2014 11:25:48

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = **2427 MHz**
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 12.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



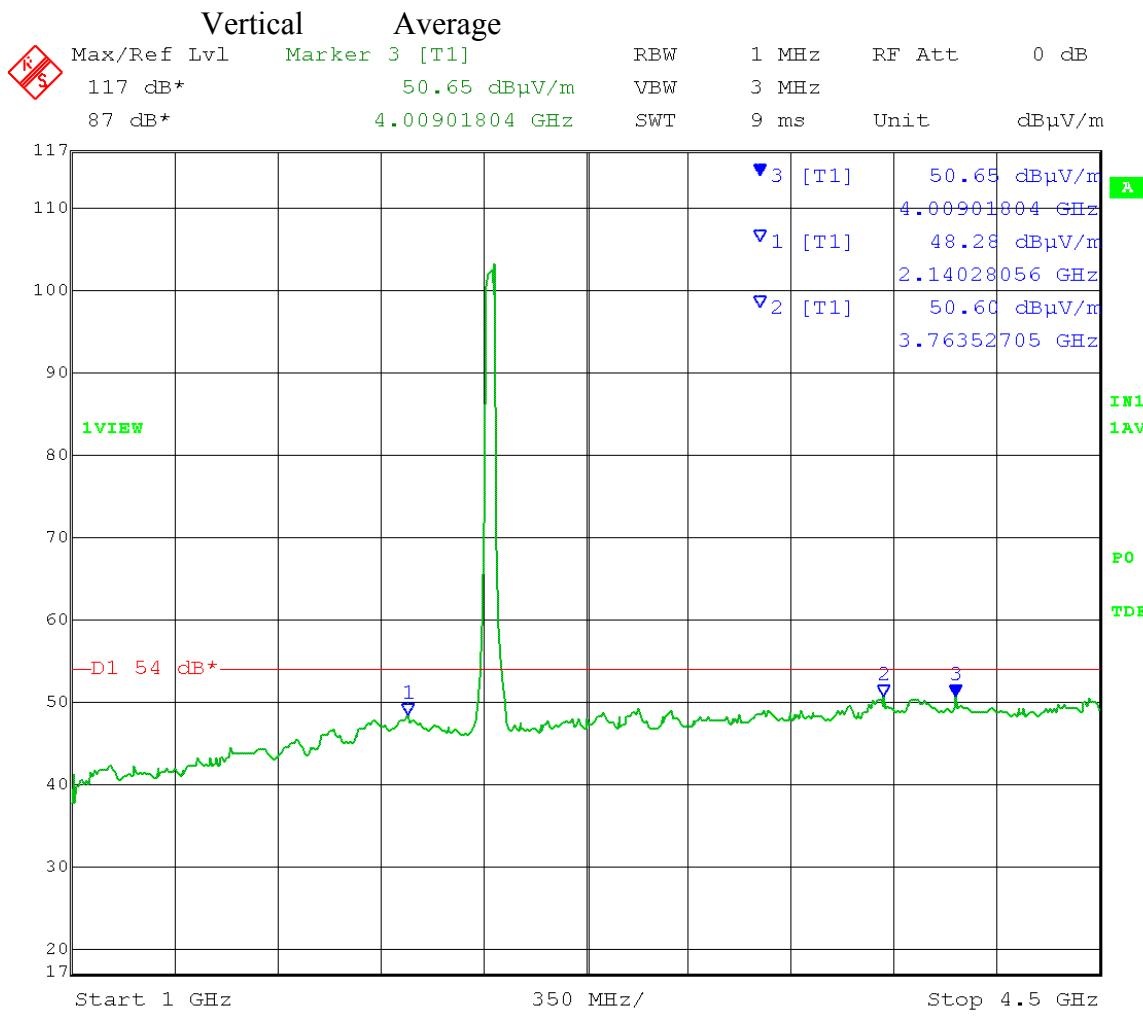
Date: 29.JAN.2014 11:26:56

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = **2427 MHz**
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 12.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz

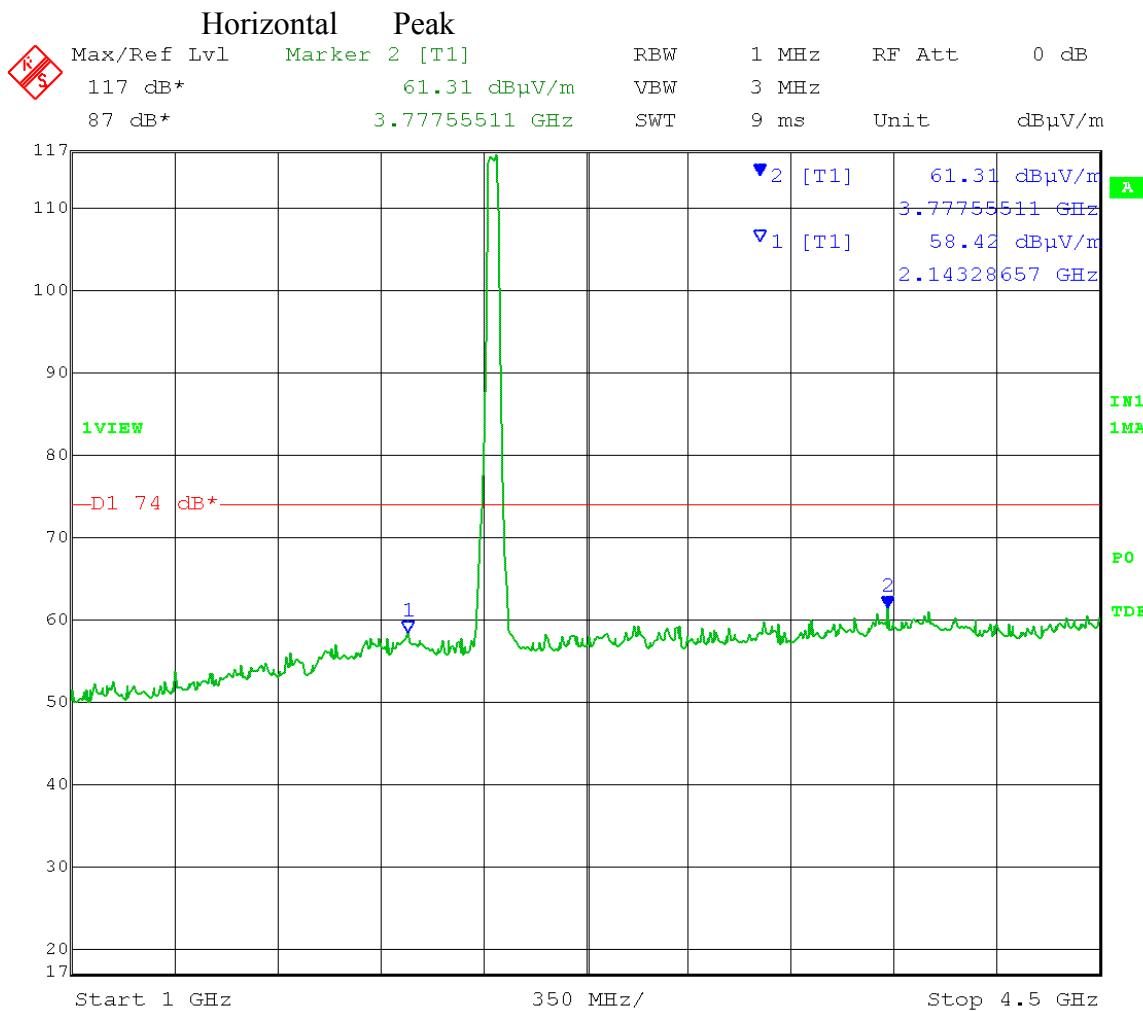


Date: 29.JAN.2014 11:38:13

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = **2427 MHz**
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 12.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz

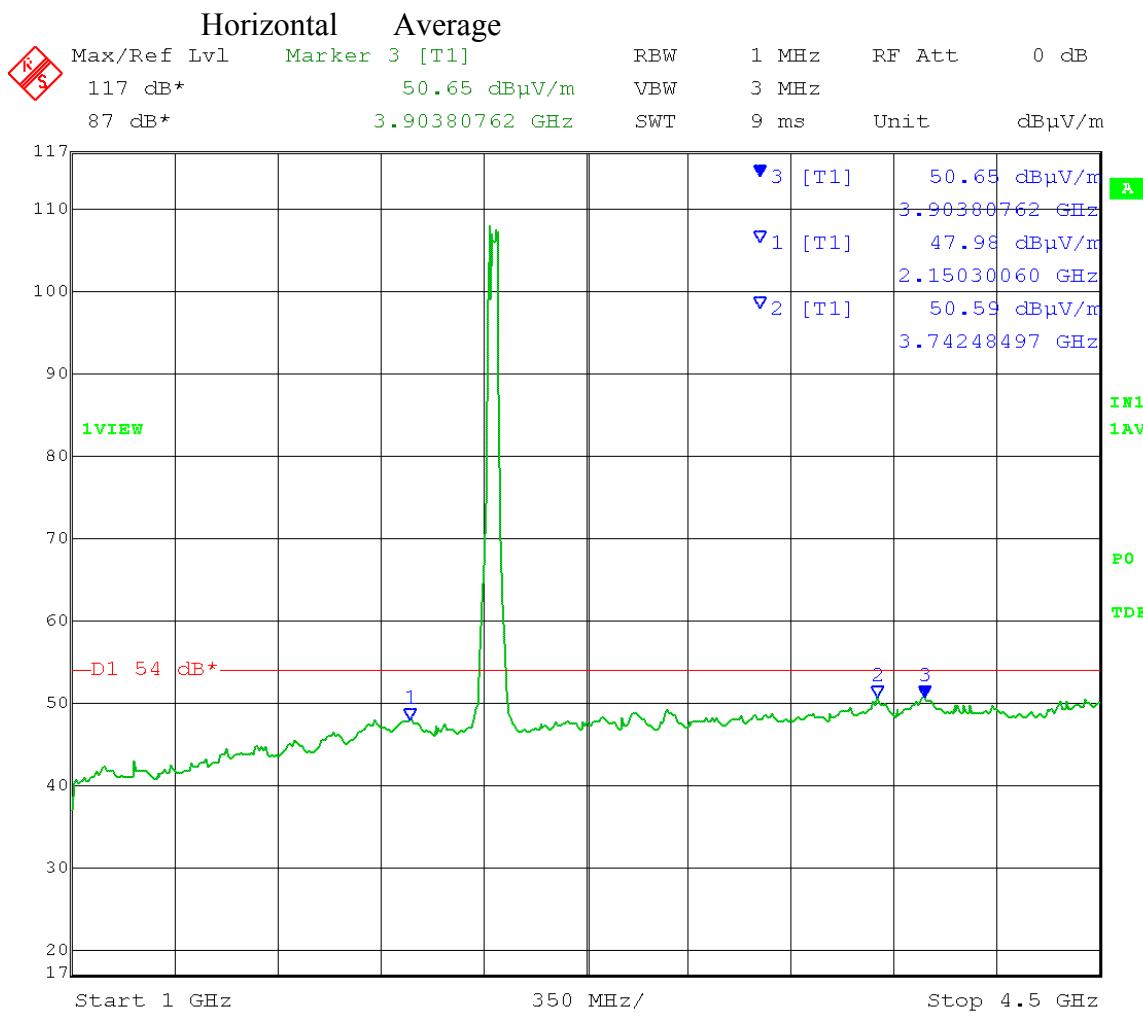


Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 POINT-TO-POINT 7 POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



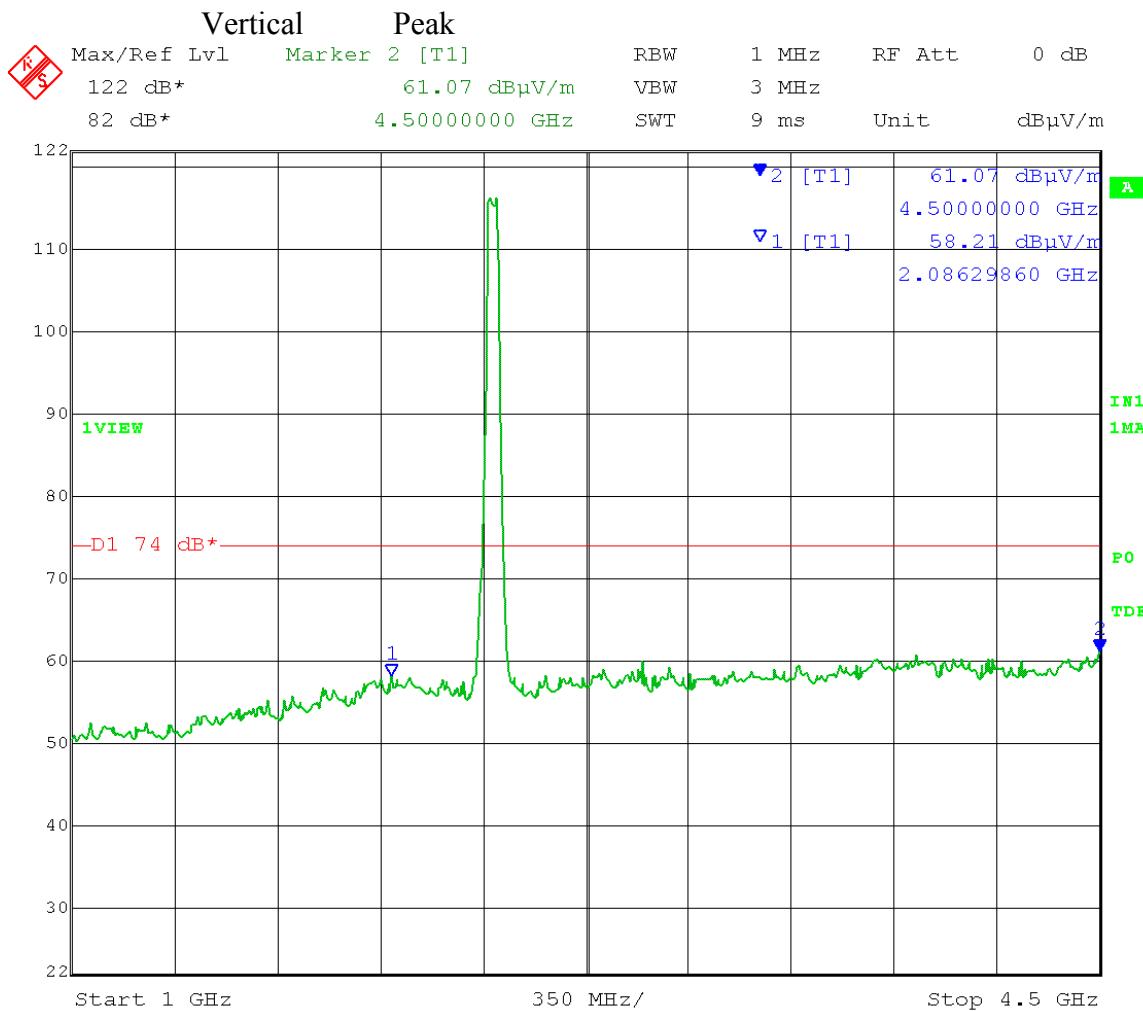
Date: 29.JAN.2014 11:11:57

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 POINT-TO-POINT 7 POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



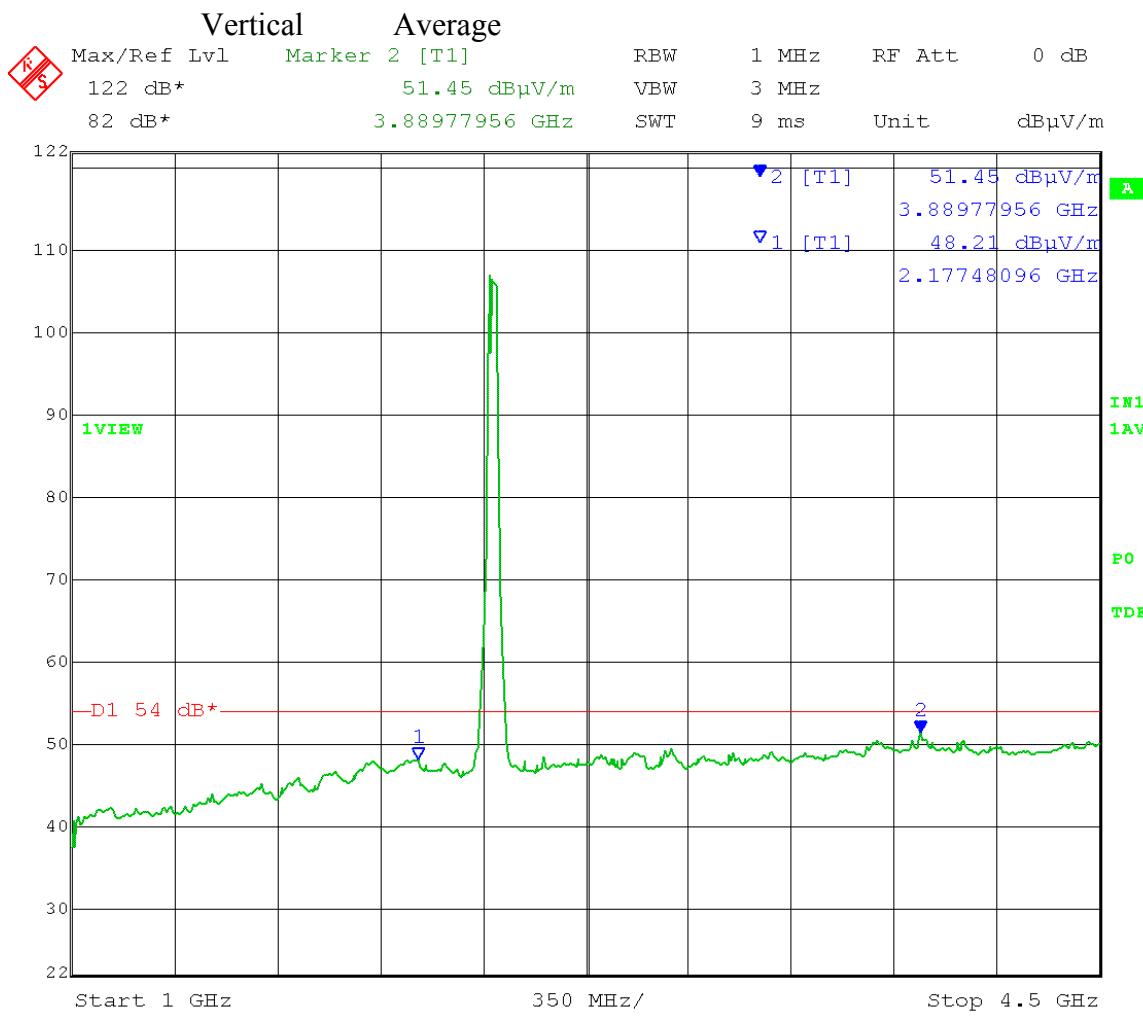
Date: 29.JAN.2014 11:09:31

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



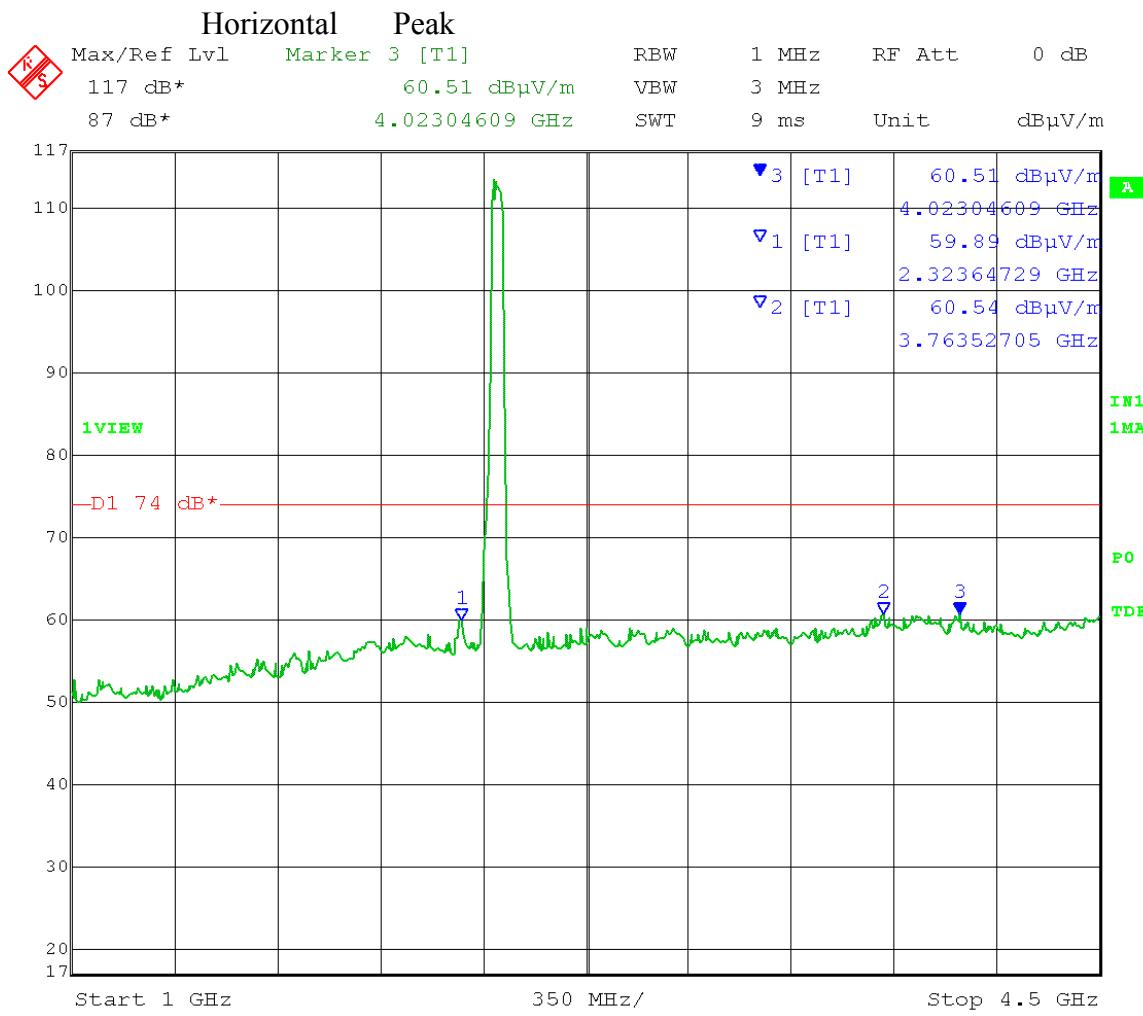
Date: 29.JAN.2014 10:49:39

Test Date: 01-29-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 17 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters



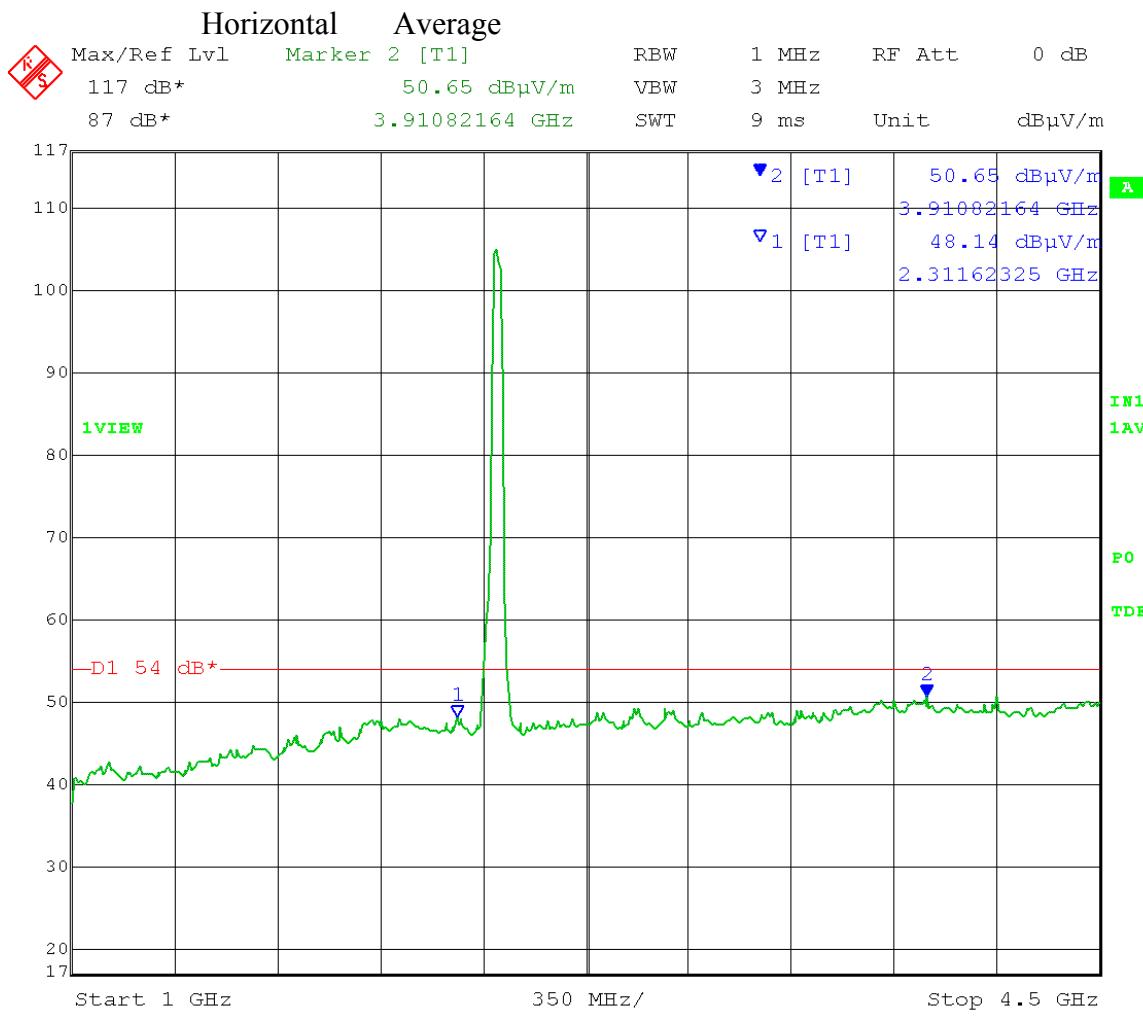
Date: 29.JAN.2014 10:50:44

Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 13.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Peak limit: 74 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



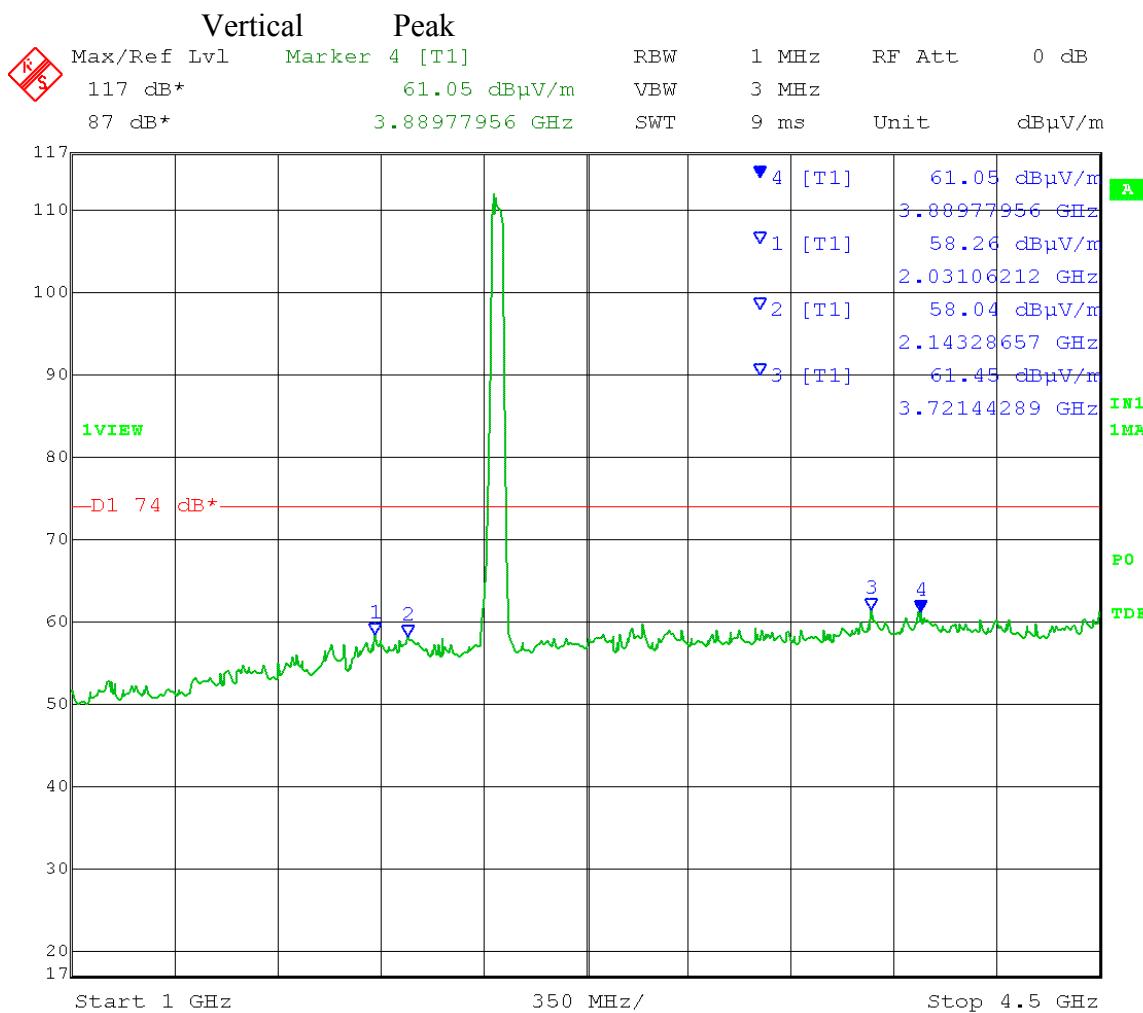
Date: 29.JAN.2014 13:13:01

Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 13.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



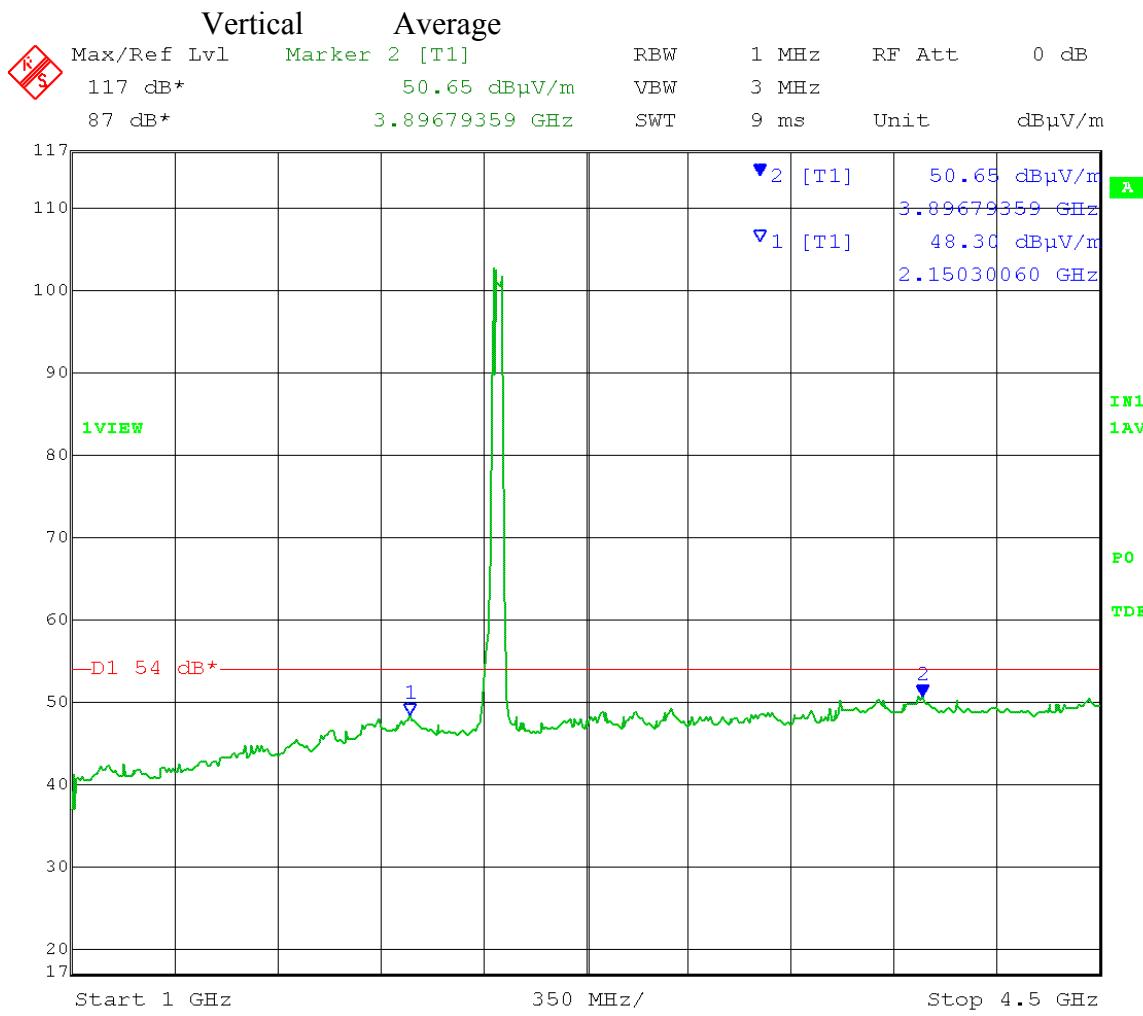
Date: 29.JAN.2014 13:14:02

Test Date: 01-24-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
Test: Maximum Unwanted Emission Levels - **RADIATED**
Operator: Craig B
Comment: RBW = 1 MHz VBW = 3 MHz
Detector = Peak Sweep = Auto Couple
Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
Output Power Setting 13.5 Channel bandwidth: 40 MHz
Both output chains active OFDM MCS15
Emission Level Measurement
Peak limit: 74 dB μ V/m at 3 meters
Frequency Range: 1 – 4.5 GHz



Date: 29.JAN.2014 11:45:12

Test Date: 01-24-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C2CE05
 Test: Maximum Unwanted Emission Levels - **RADIATED**
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-POINT & POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 13.5 Channel bandwidth: 40 MHz
 Both output chains active OFDM MCS15
Emission Level Measurement
 Average limit: 54 dB μ V/m at 3 meters
 Frequency Range: 1 – 4.5 GHz



Date: 29.JAN.2014 11:43:55

**Maximum Unwanted Emission Levels
into Restricted Frequency Bands -
Radiated**

with 12 dBi Integral Patch Antenna

**No measurable emissions were detected
from the EUT from
4.5 to 25 GHz.**

Software power setting 27



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

Appendix B – Measurement Data

B8.0 Conducted Measurements for Radiated Restricted Band-Edge Compliance - for Sector, Panel, and Dish antennas

Rule Section: FCC 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*

12.1 Emissions in restricted frequency bands

12.2.2 General Procedure for conducted measurements in restricted bands

Description: Measure the conducted output power (in dBm) using the detector specified (section 12.2.4 used for peak, and 12.2.5.1 used for average).
Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level.
For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (*e.g.*, Watts, mW).
Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

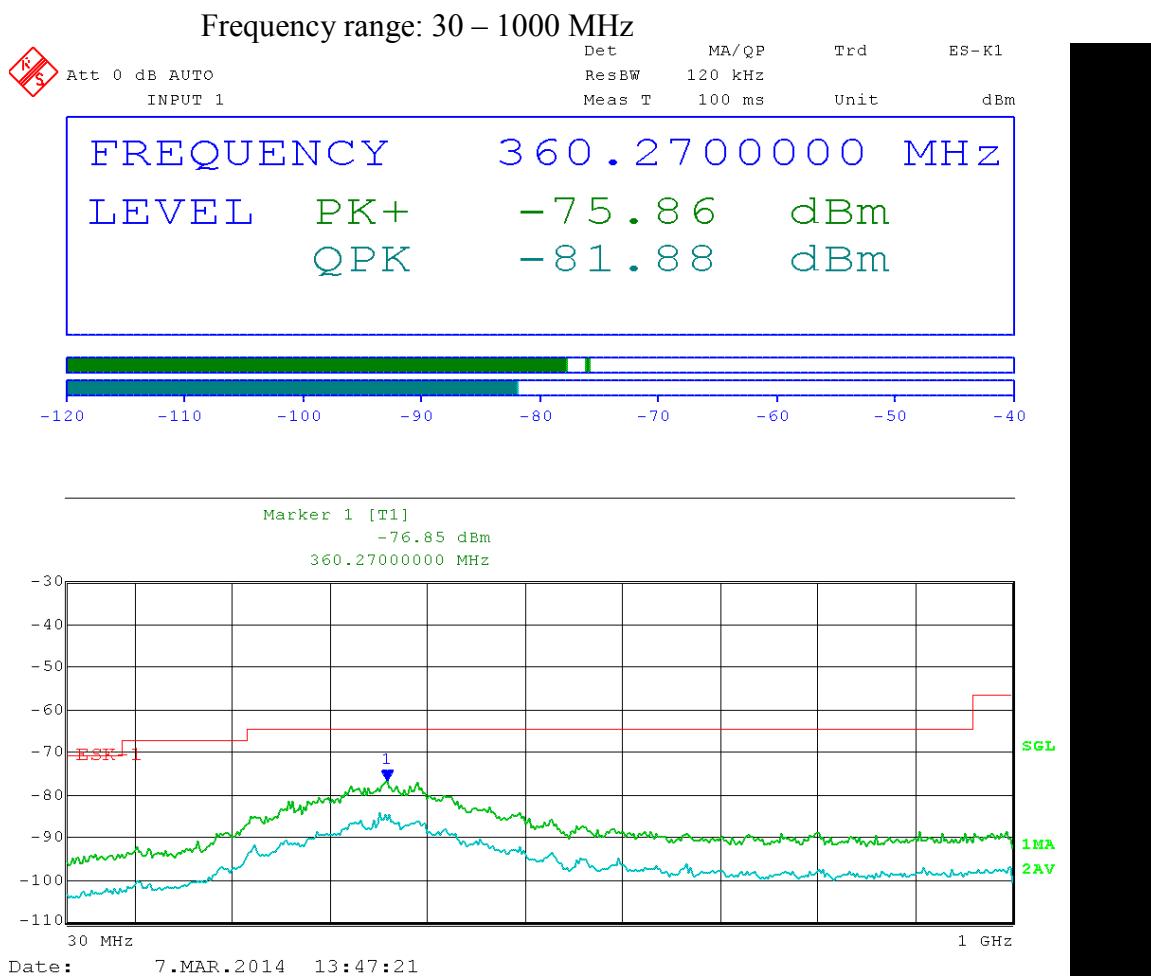
Compare the resultant electric field strength level to the applicable limit.

Limit: Average Limit = 54dB μ V/m @ 3 meters
Peak Limit = 74dB μ V/m @ 3 meters

Results: Passed

Notes: 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.

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2412 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = 40 dB μ V/m + 20log (3 meters) – 104.8 – 8 dBi antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

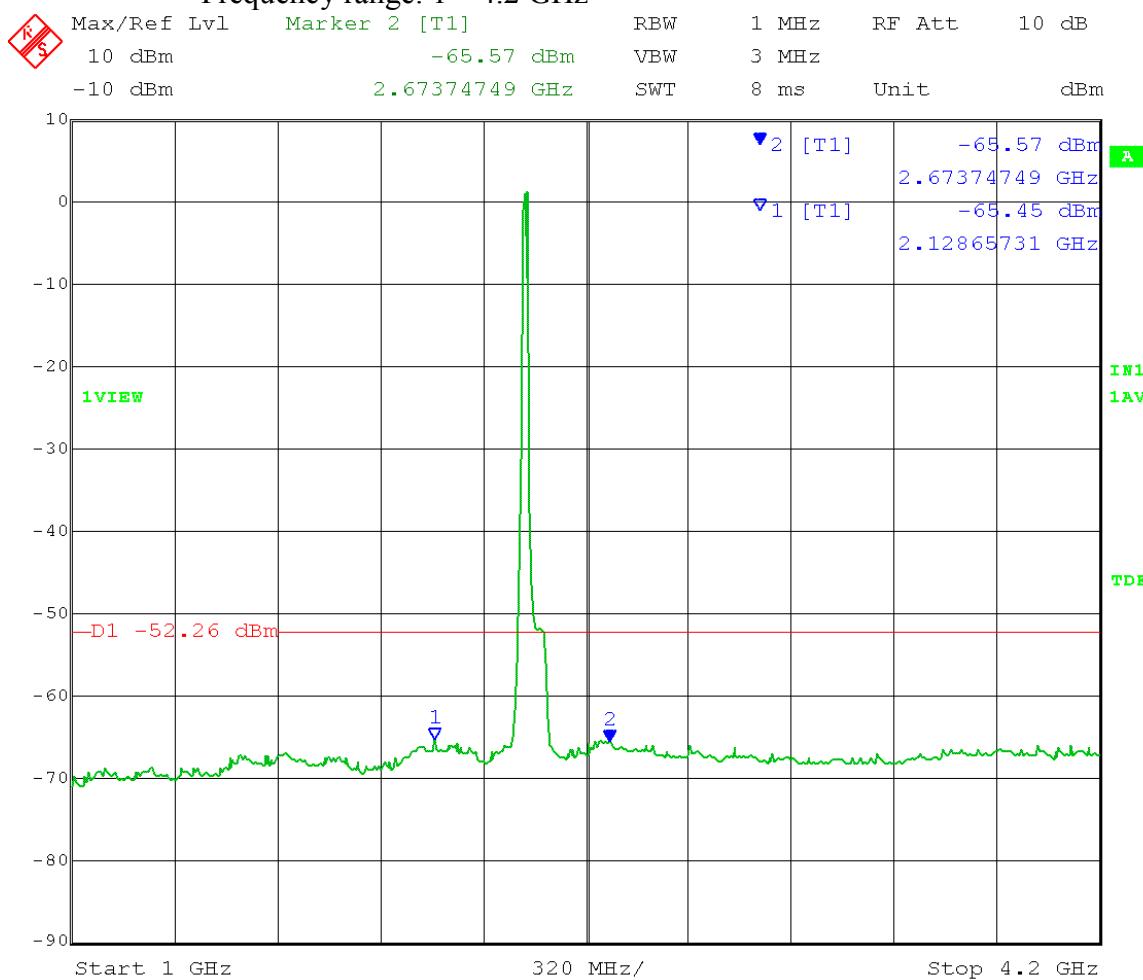
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:01:41

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

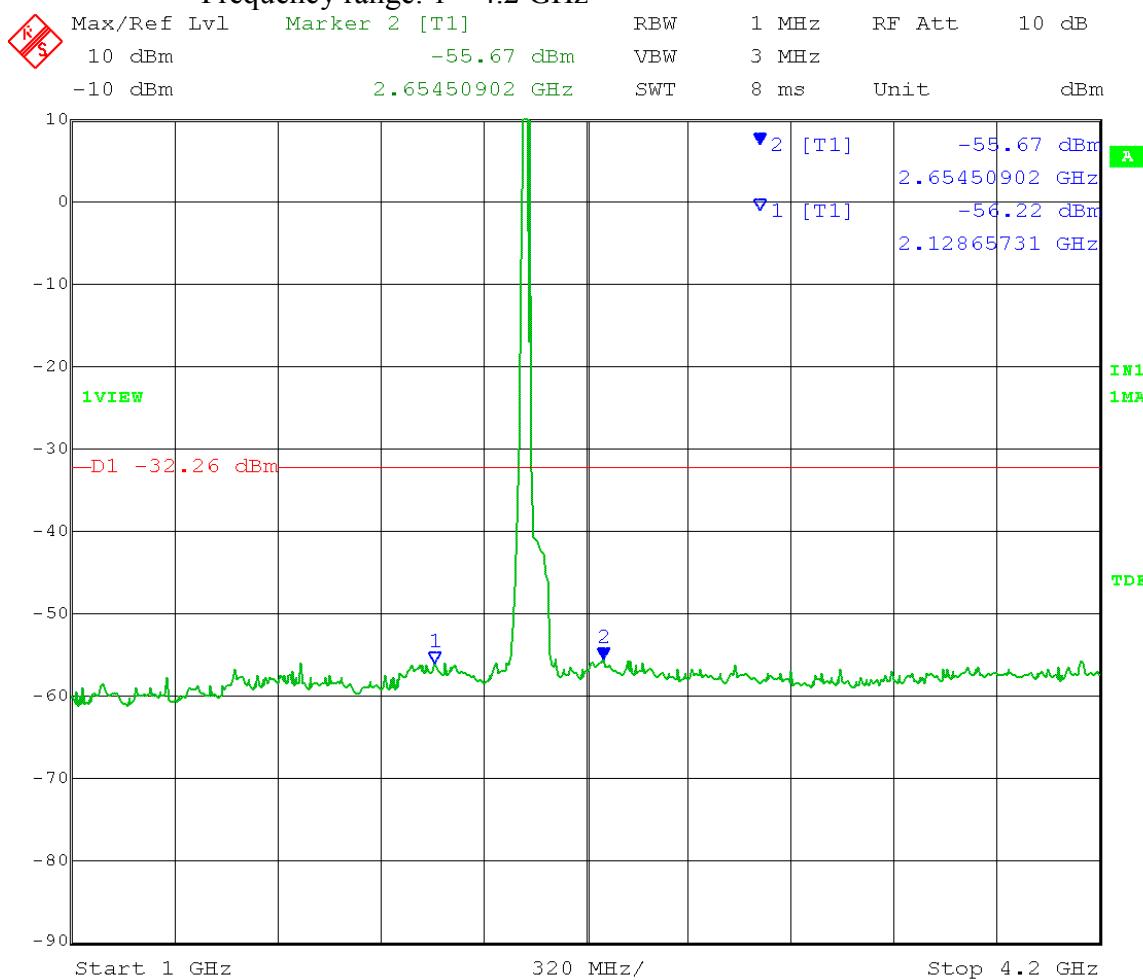
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:02:33

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

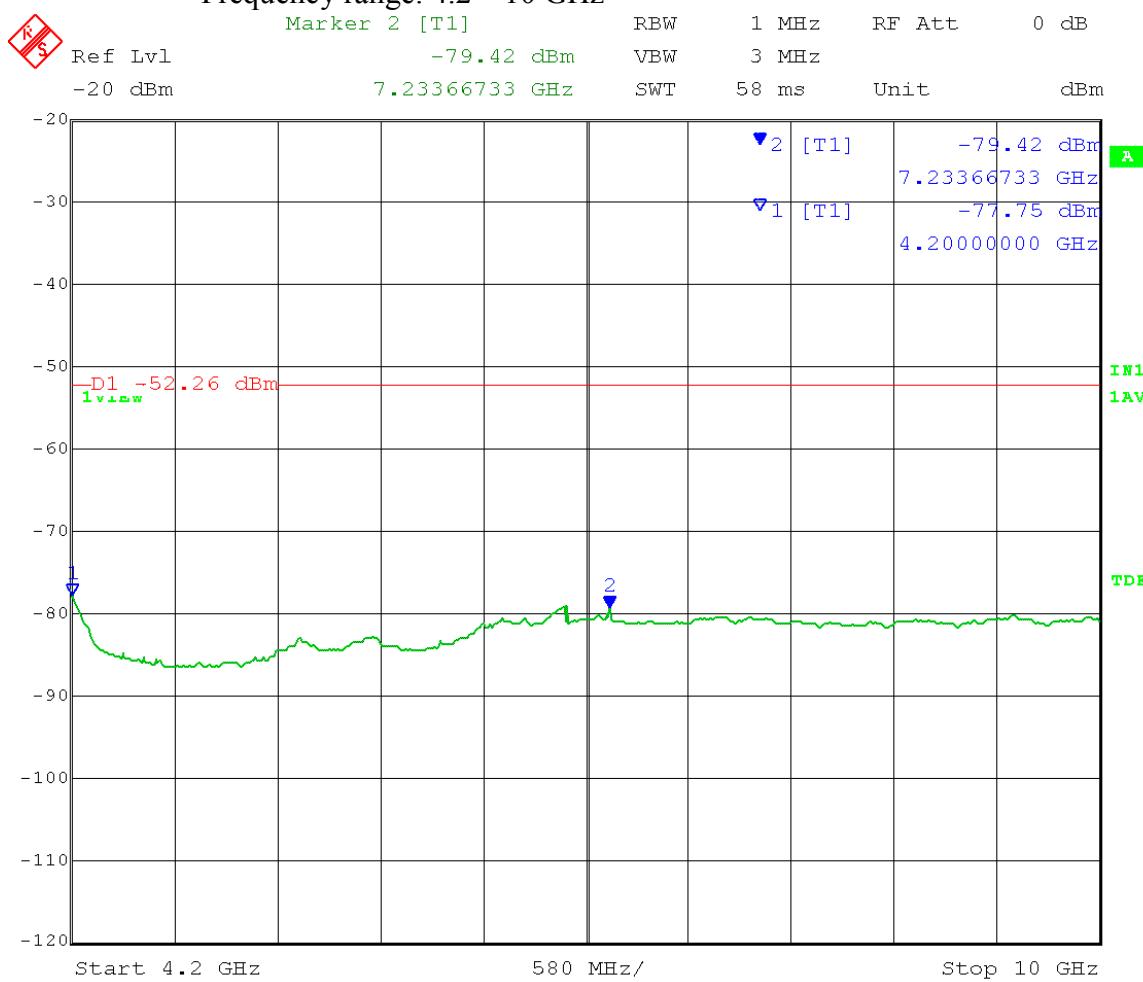
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 4.2 – 10 GHz



Date: 7.MAR.2014 14:16:57

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

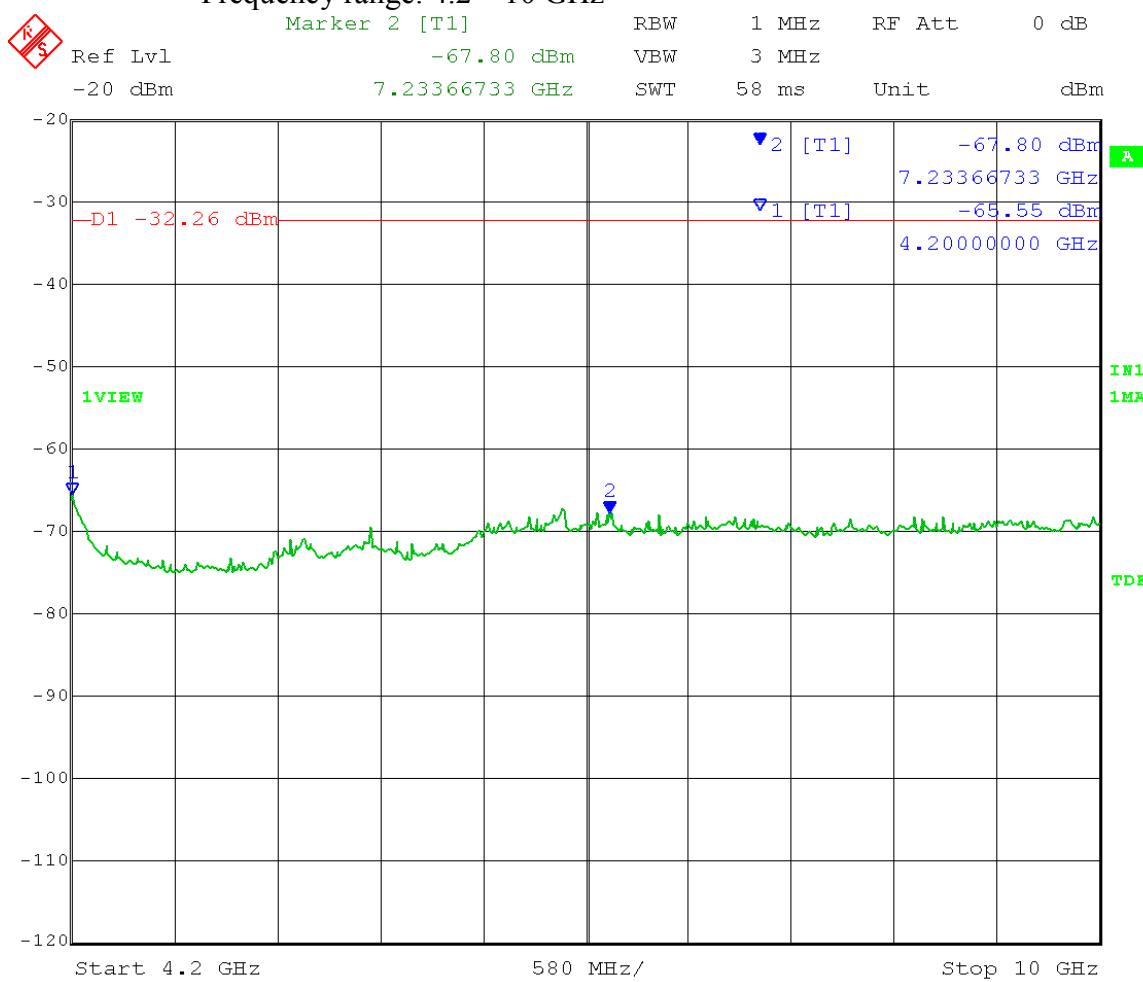
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 4.2 – 10 GHz



Date: 7.MAR.2014 14:18:42

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

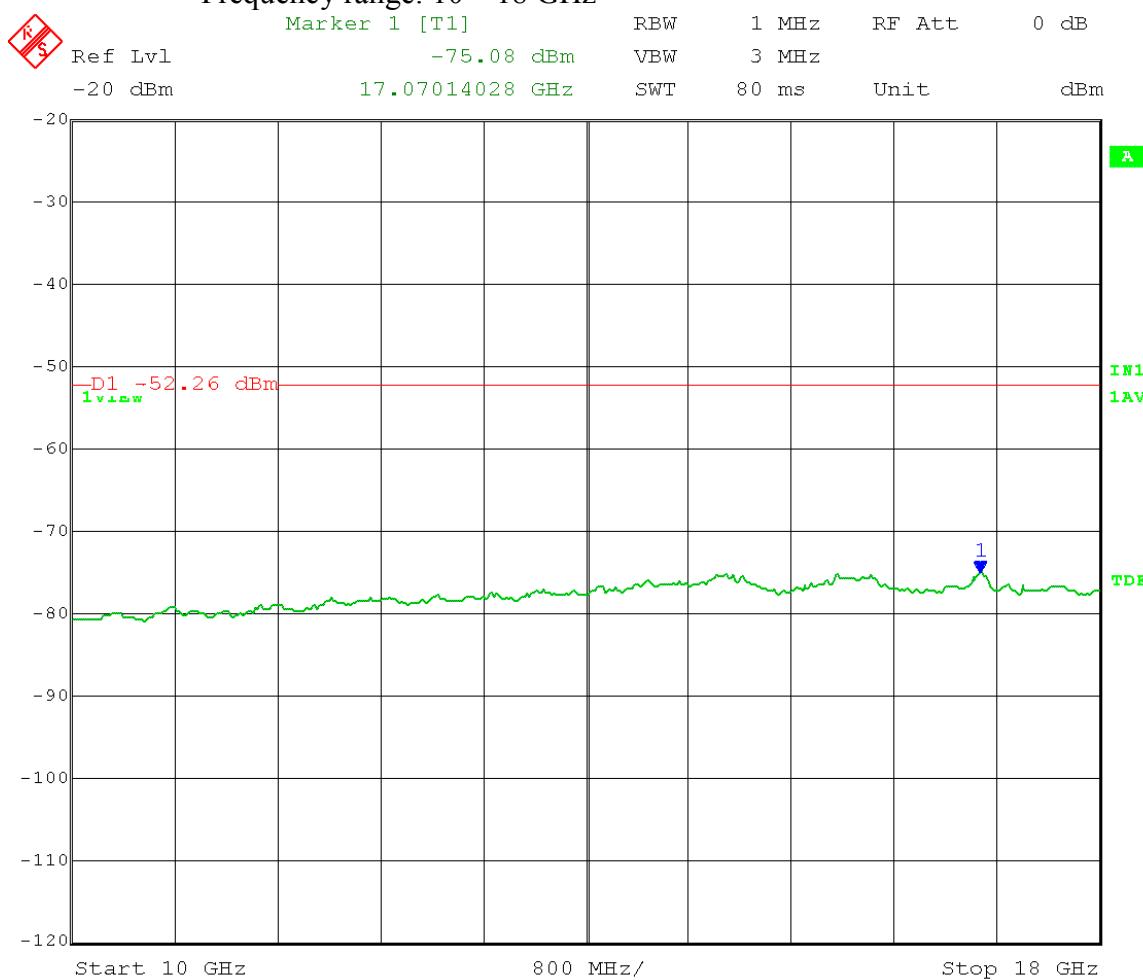
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 10 – 18 GHz



Date: 7.MAR.2014 14:42:14

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

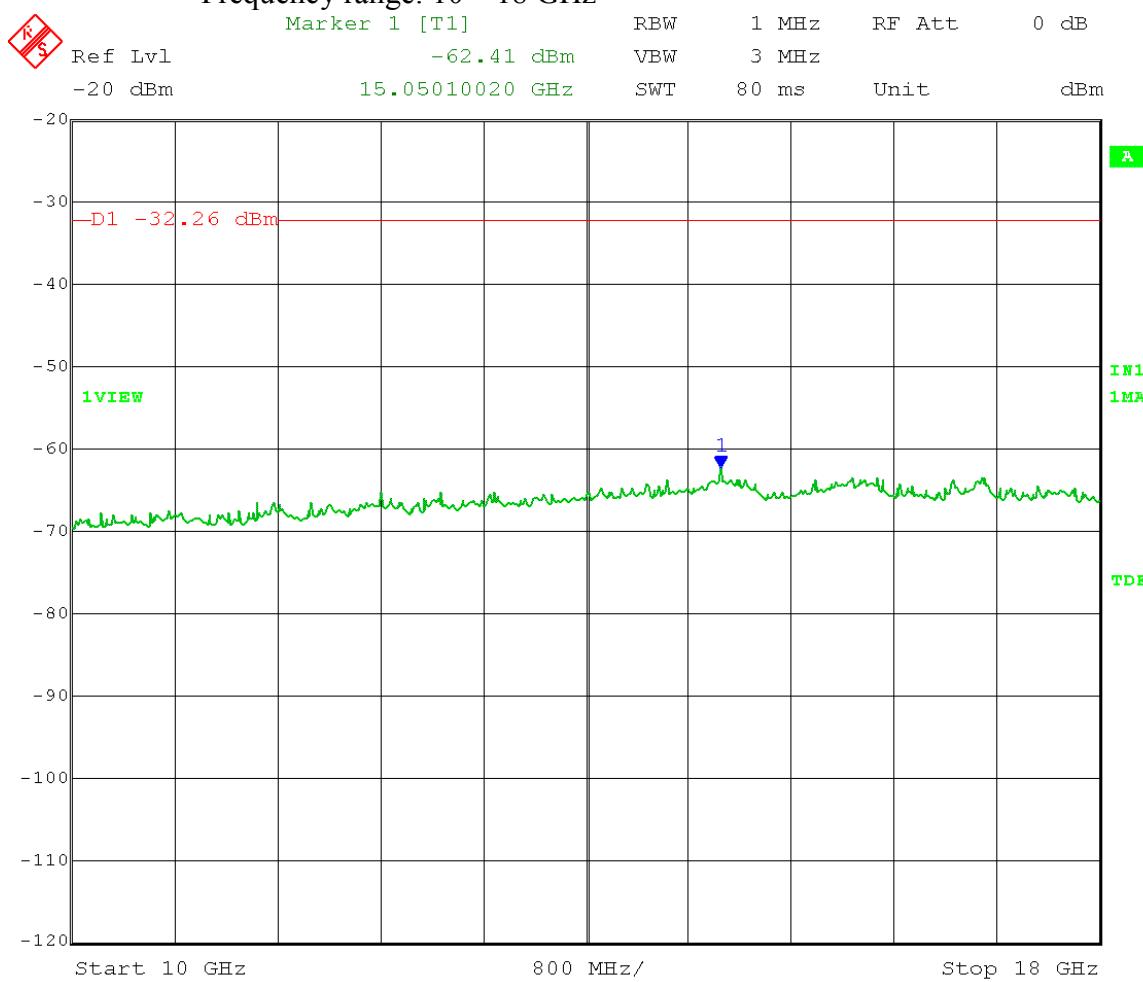
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

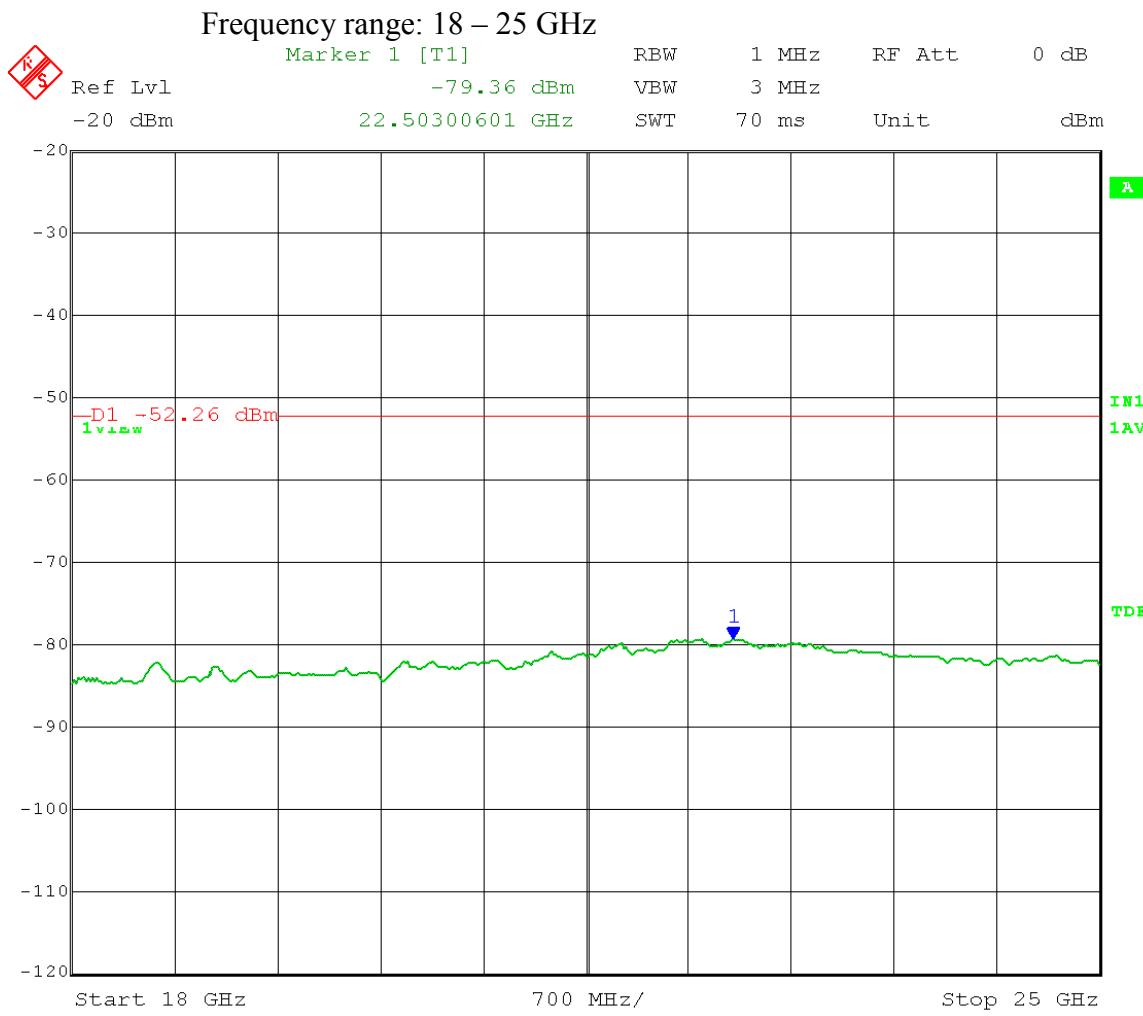
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 10 – 18 GHz



Date: 7.MAR.2014 14:43:34

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 15:16:08

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

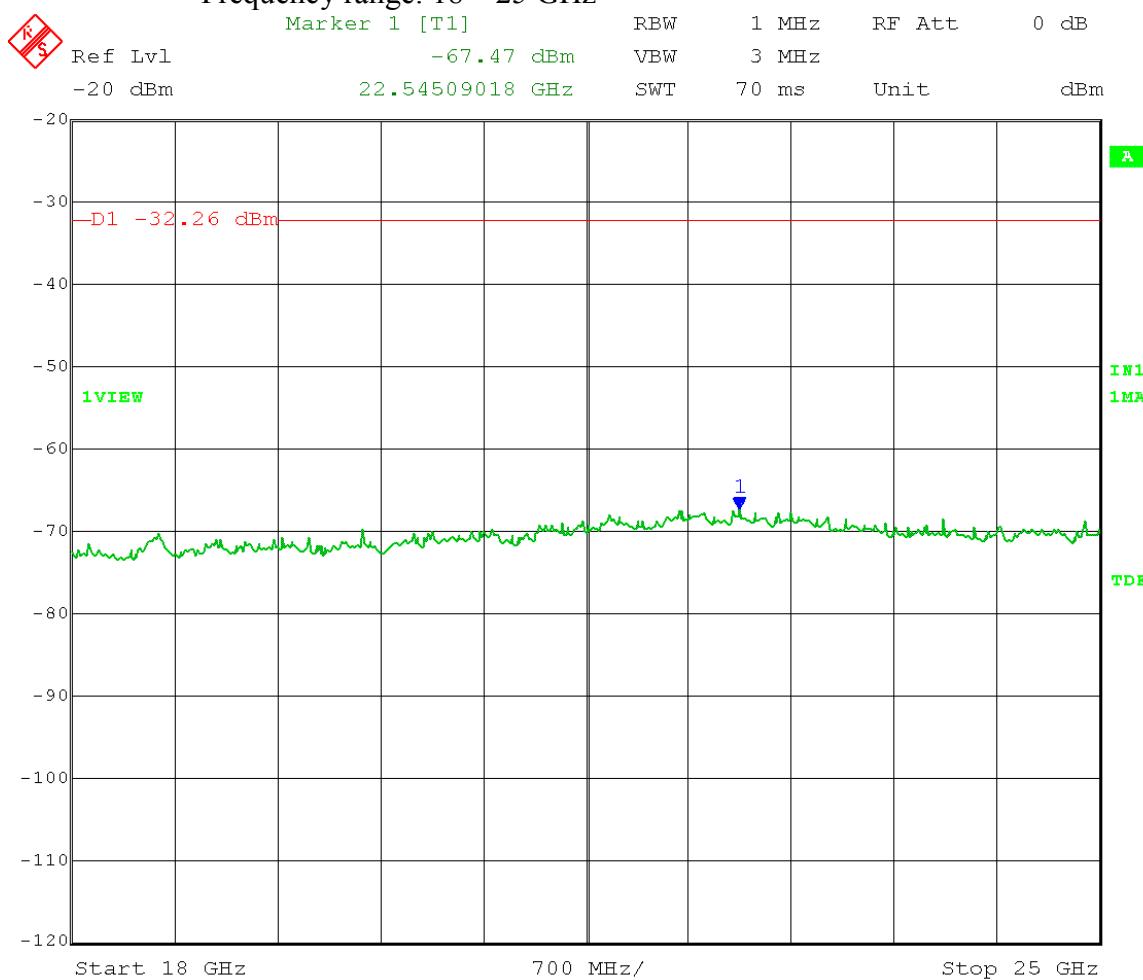
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

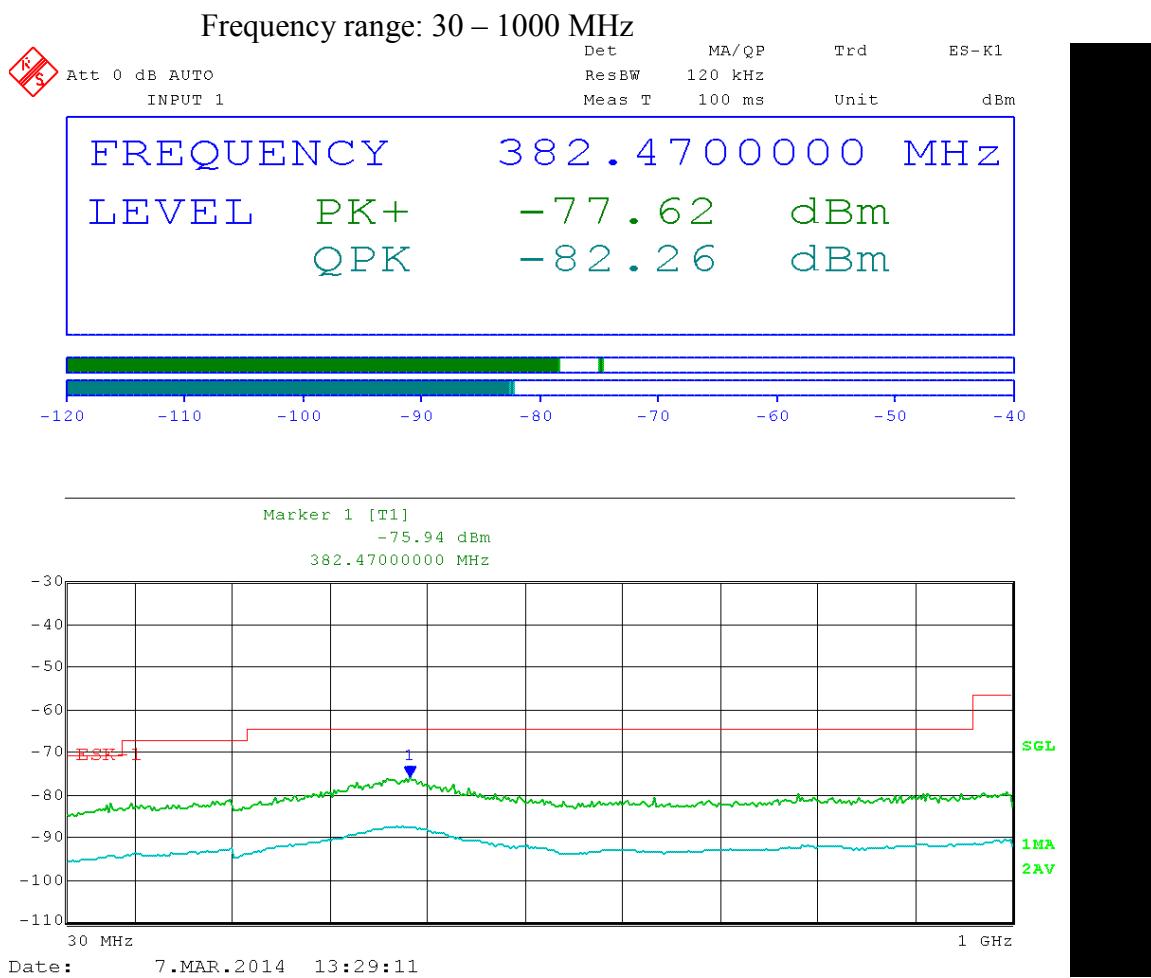
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 18 – 25 GHz

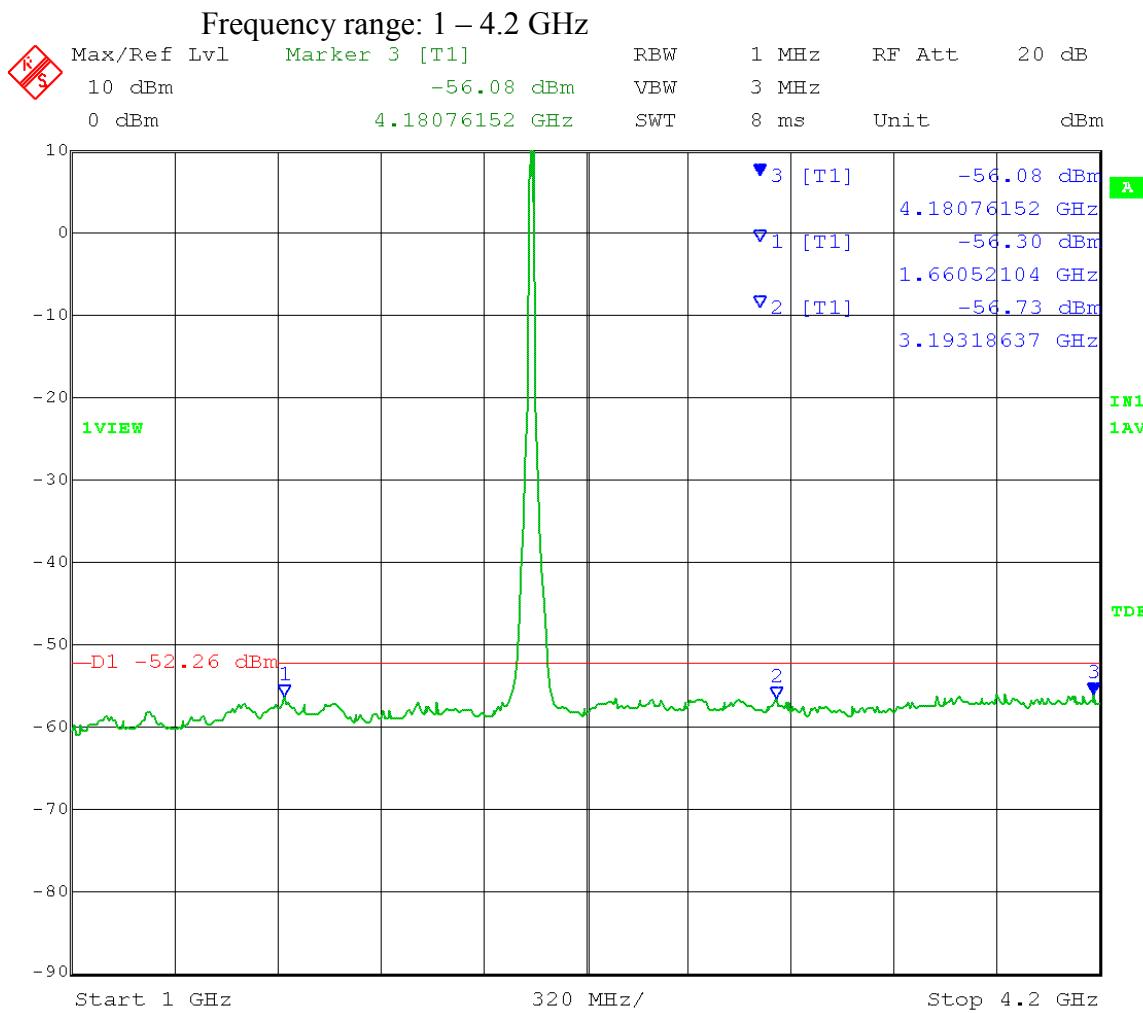


Date: 7.MAR.2014 15:17:10

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



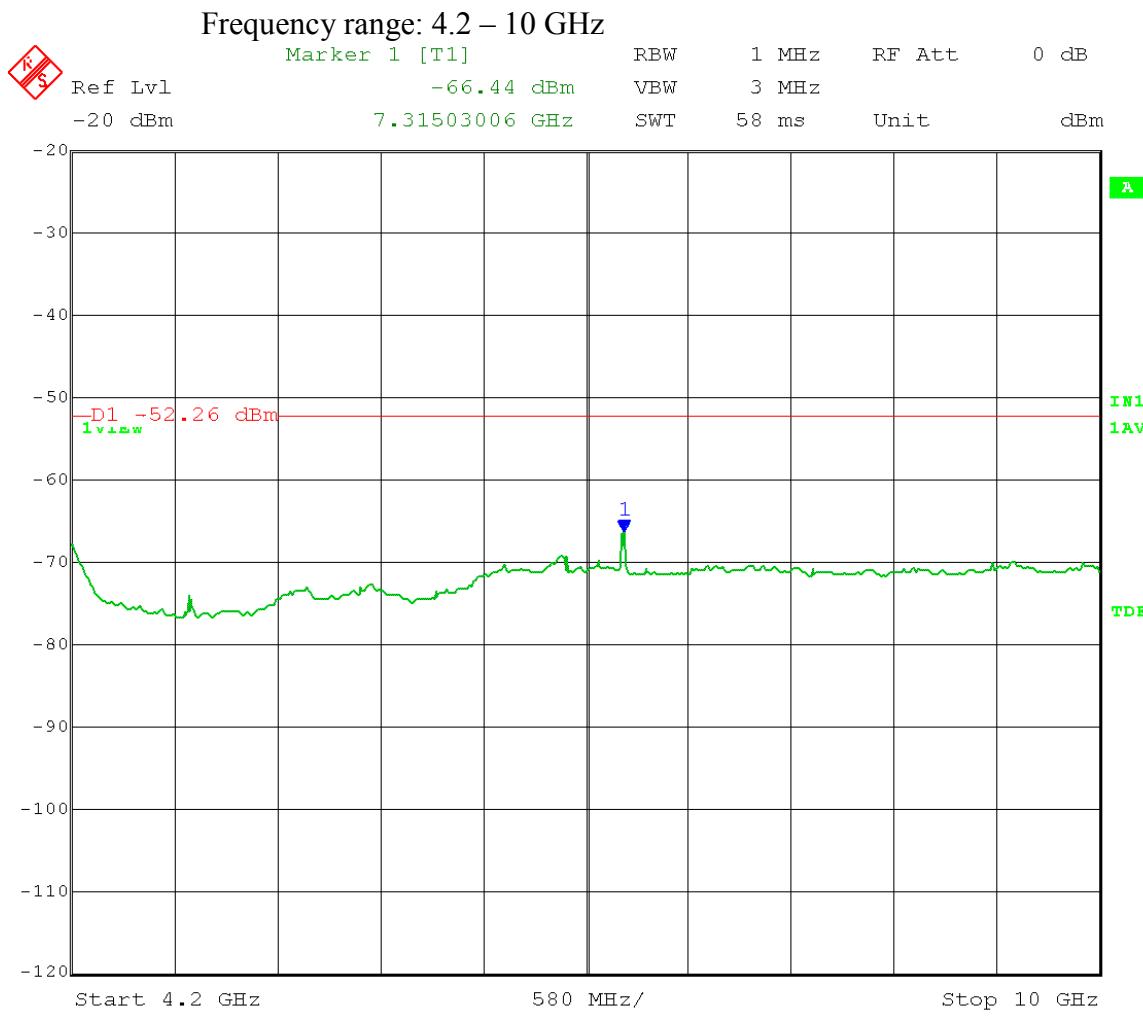
Date: 11.MAR.2014 12:55:01

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 11.MAR.2014 12:56:36

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 11:18:05

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 26.5 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

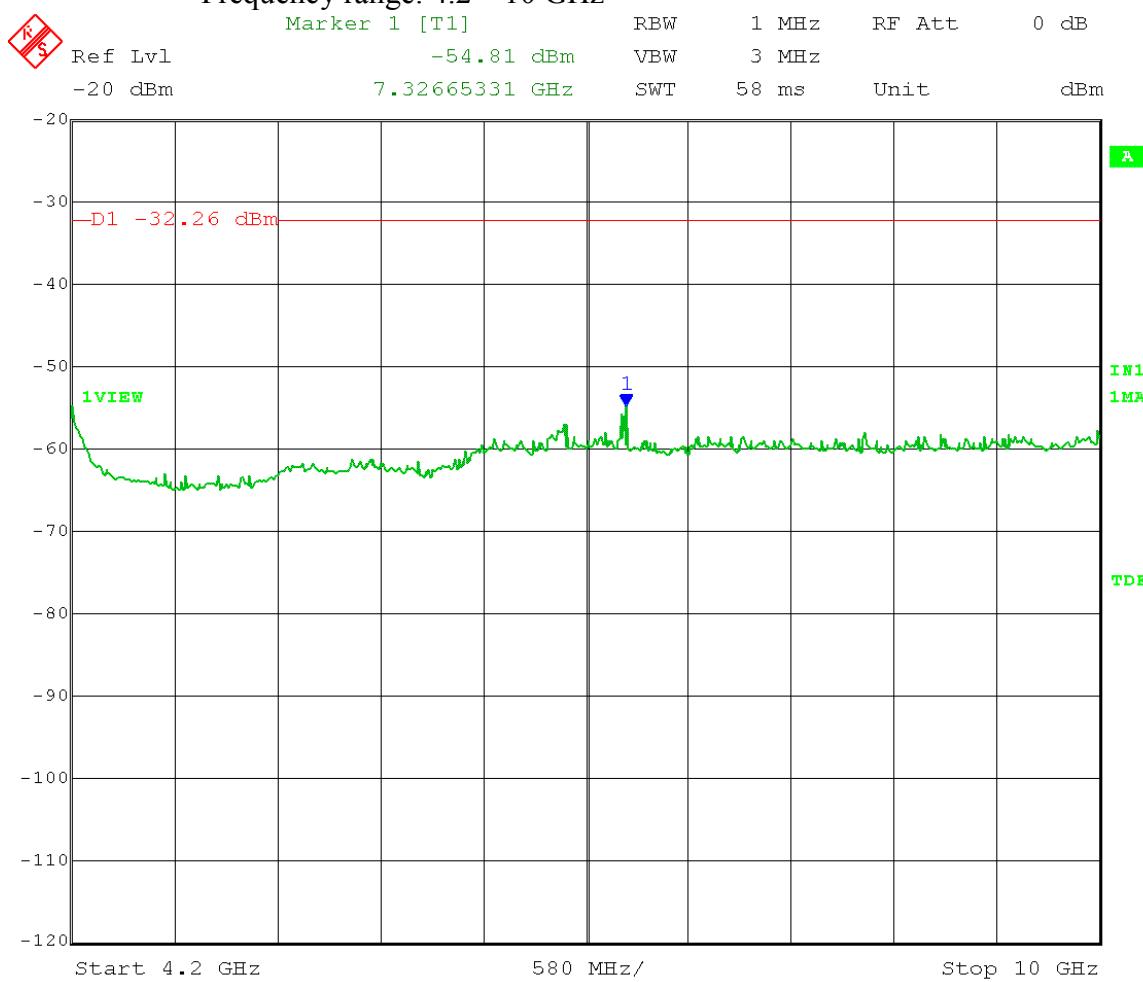
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

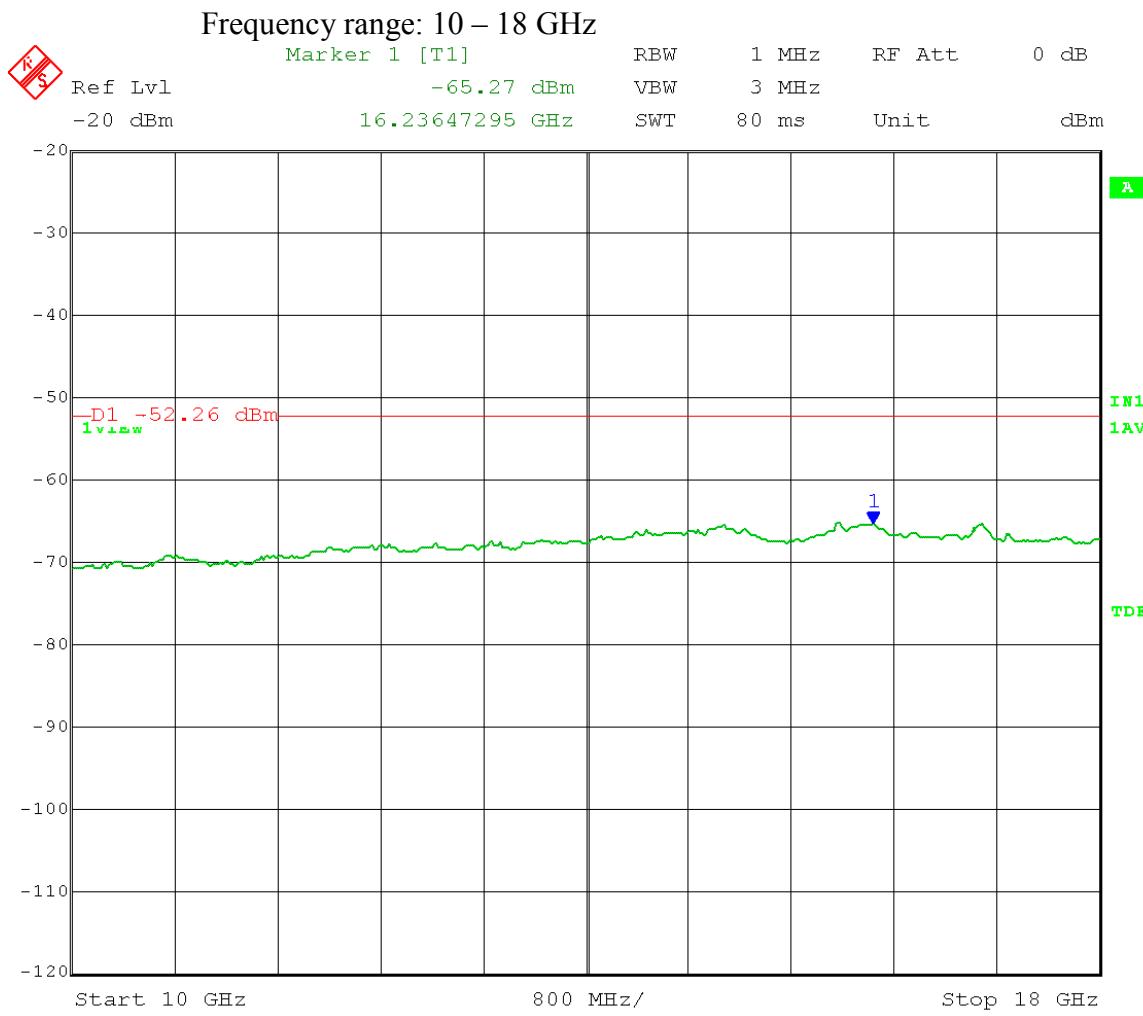
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 4.2 – 10 GHz



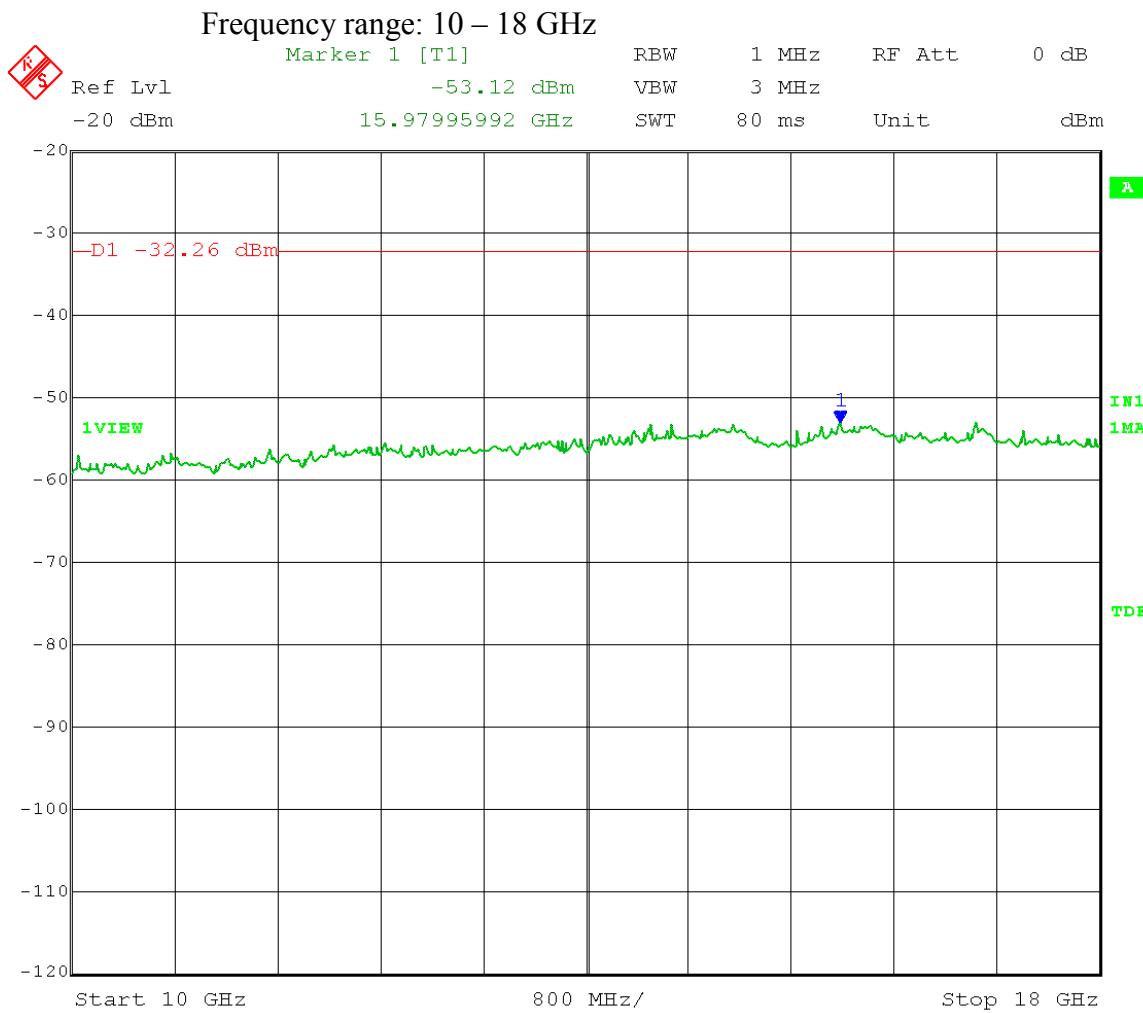
Date: 7.MAR.2014 11:21:47

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



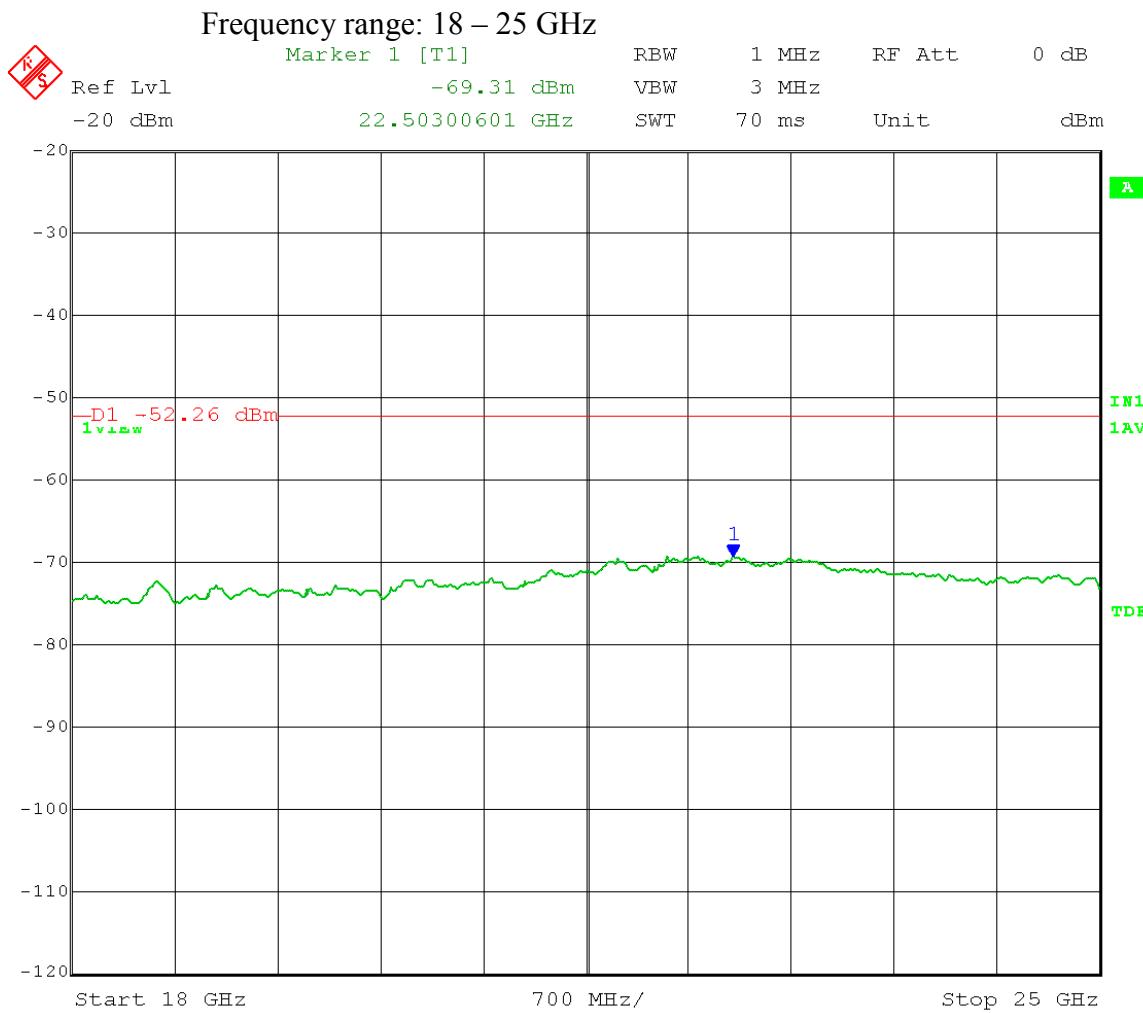
Date: 7.MAR.2014 11:30:21

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



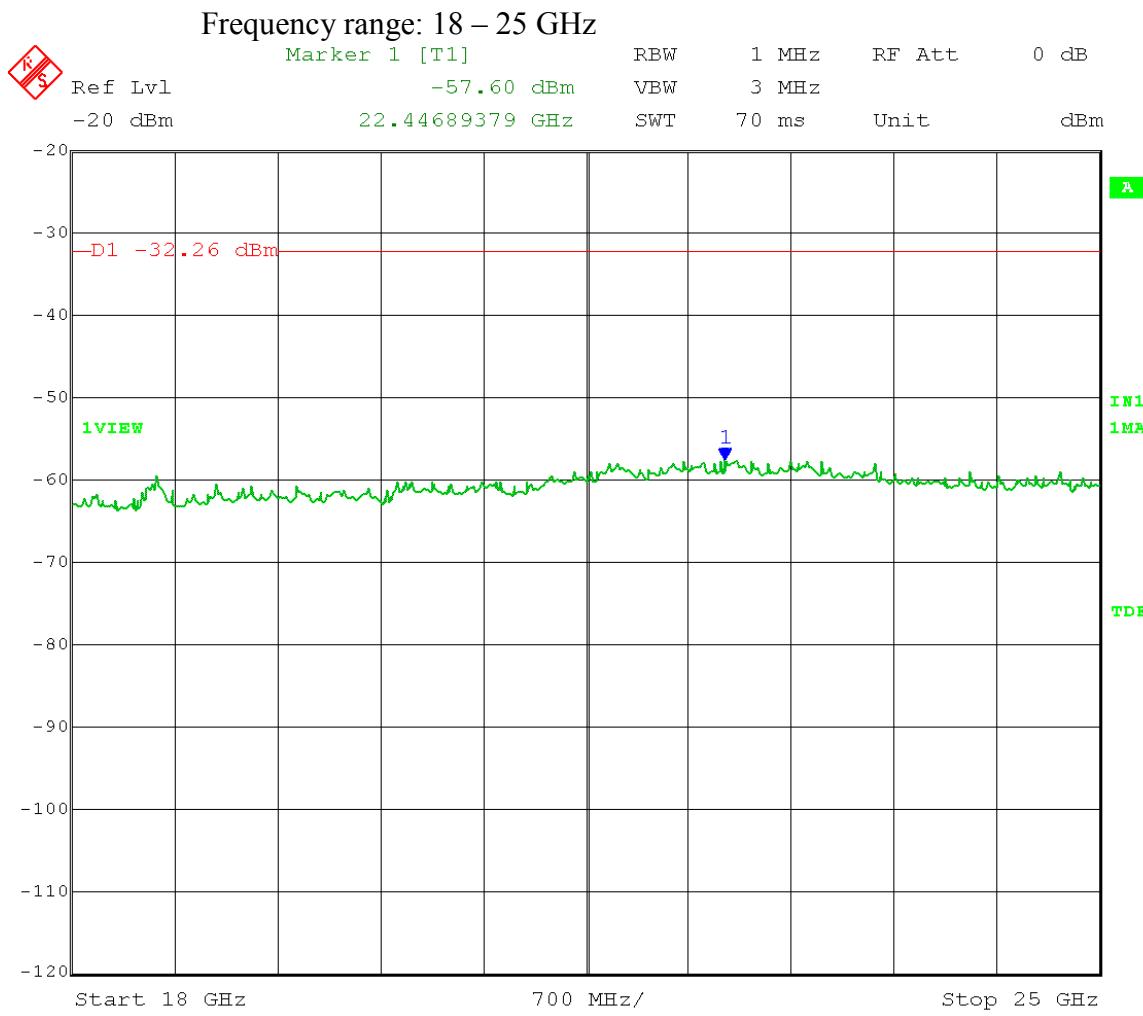
Date: 7.MAR.2014 11:29:16

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



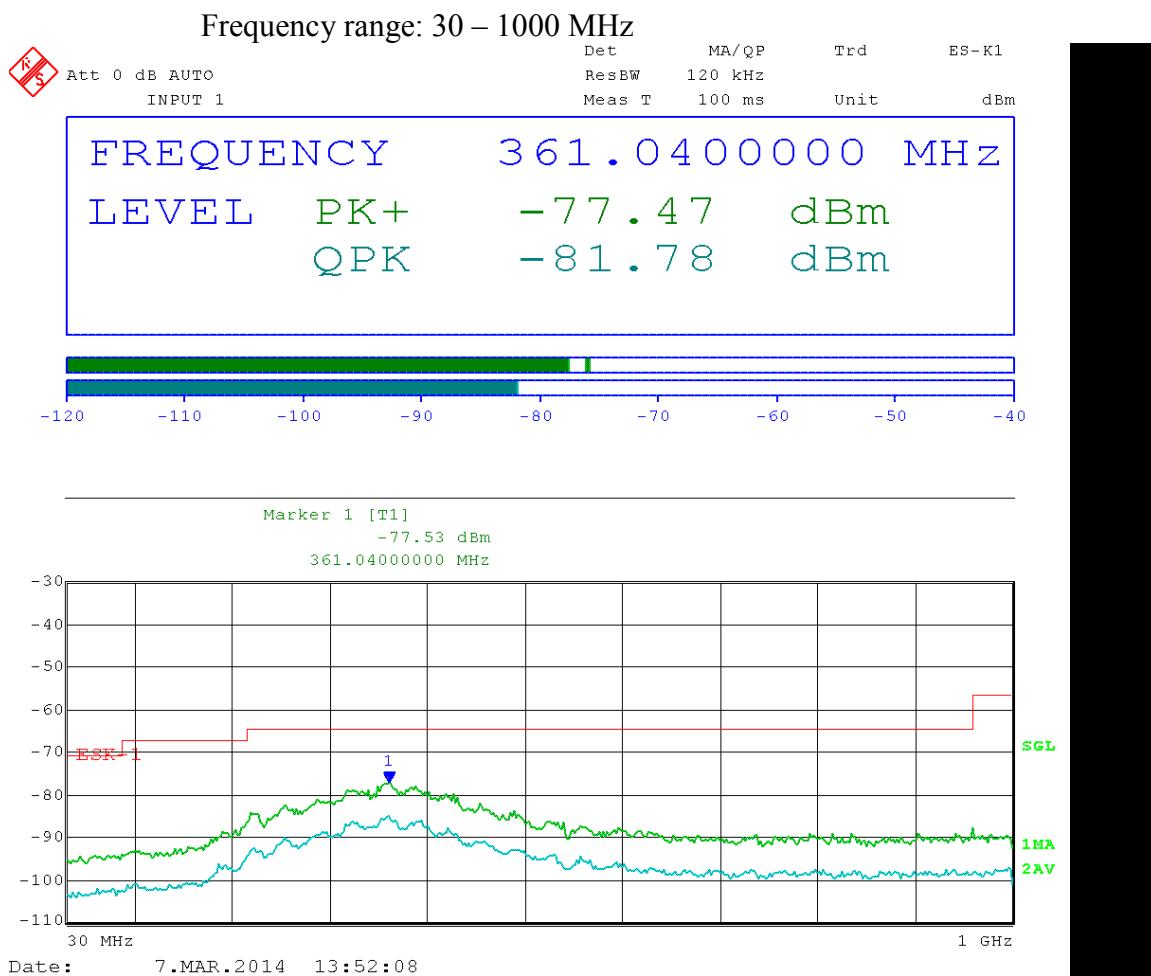
Date: 7.MAR.2014 12:45:39

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 26.5 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 7.MAR.2014 12:46:53

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = 40 dB μ V/m + 20log (3 meters) – 104.8 – 8 dBi antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

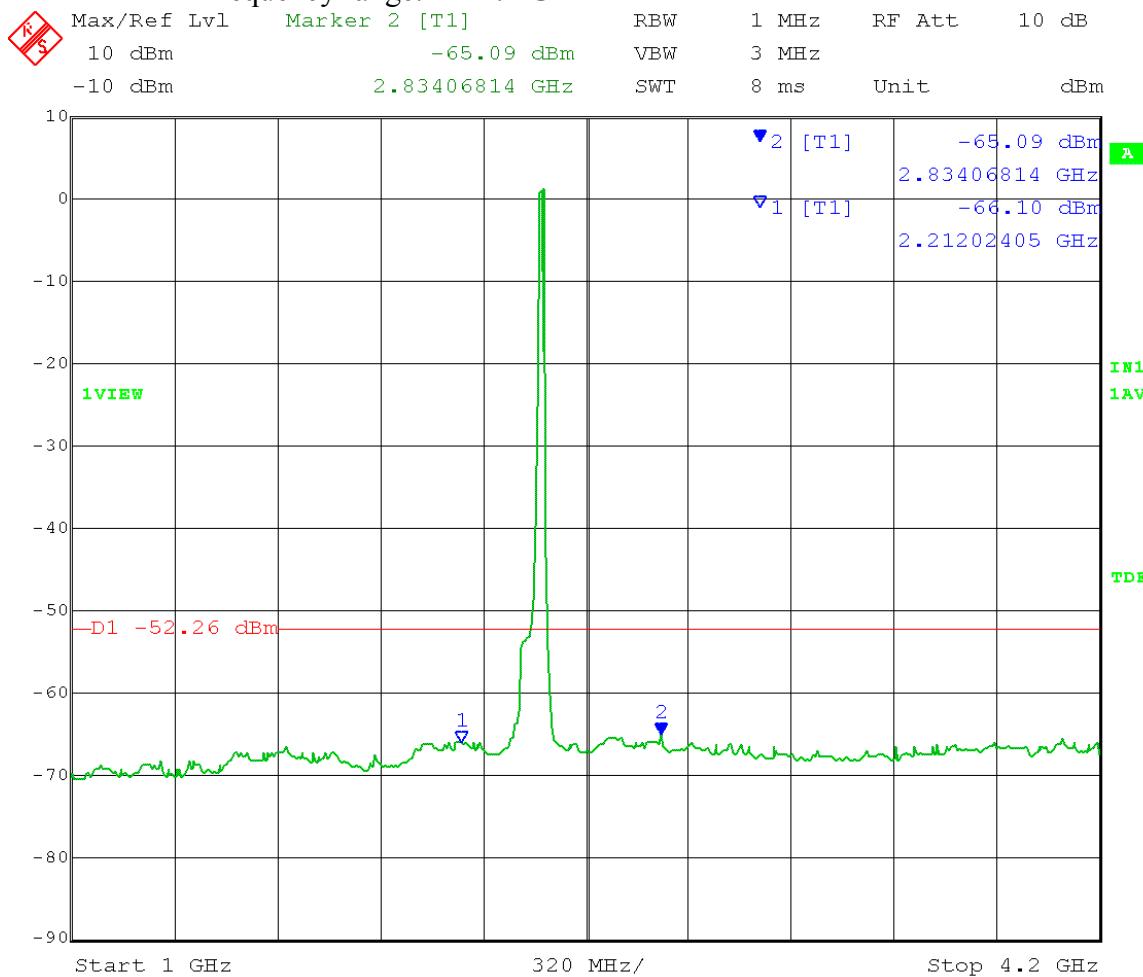
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:07:07

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

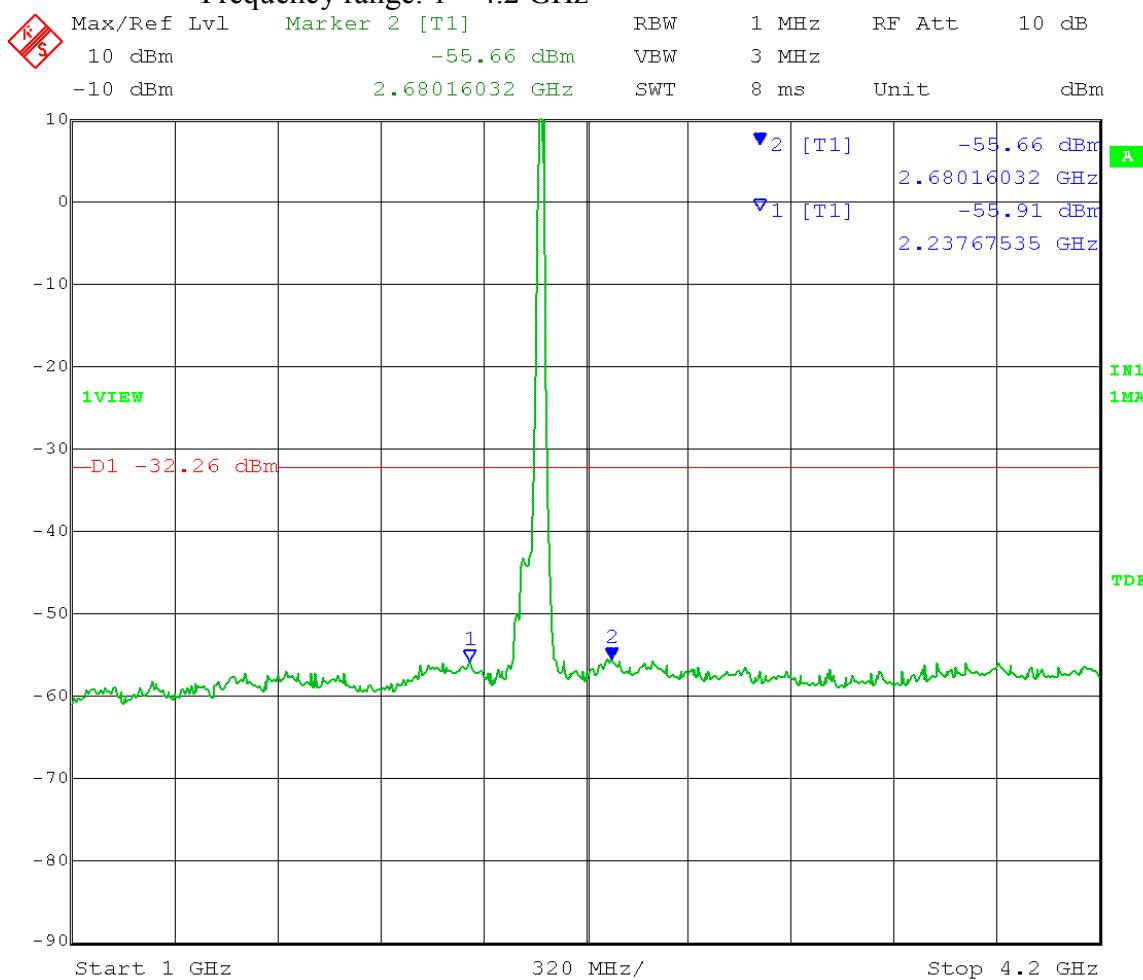
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:05:58

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 20 MHz

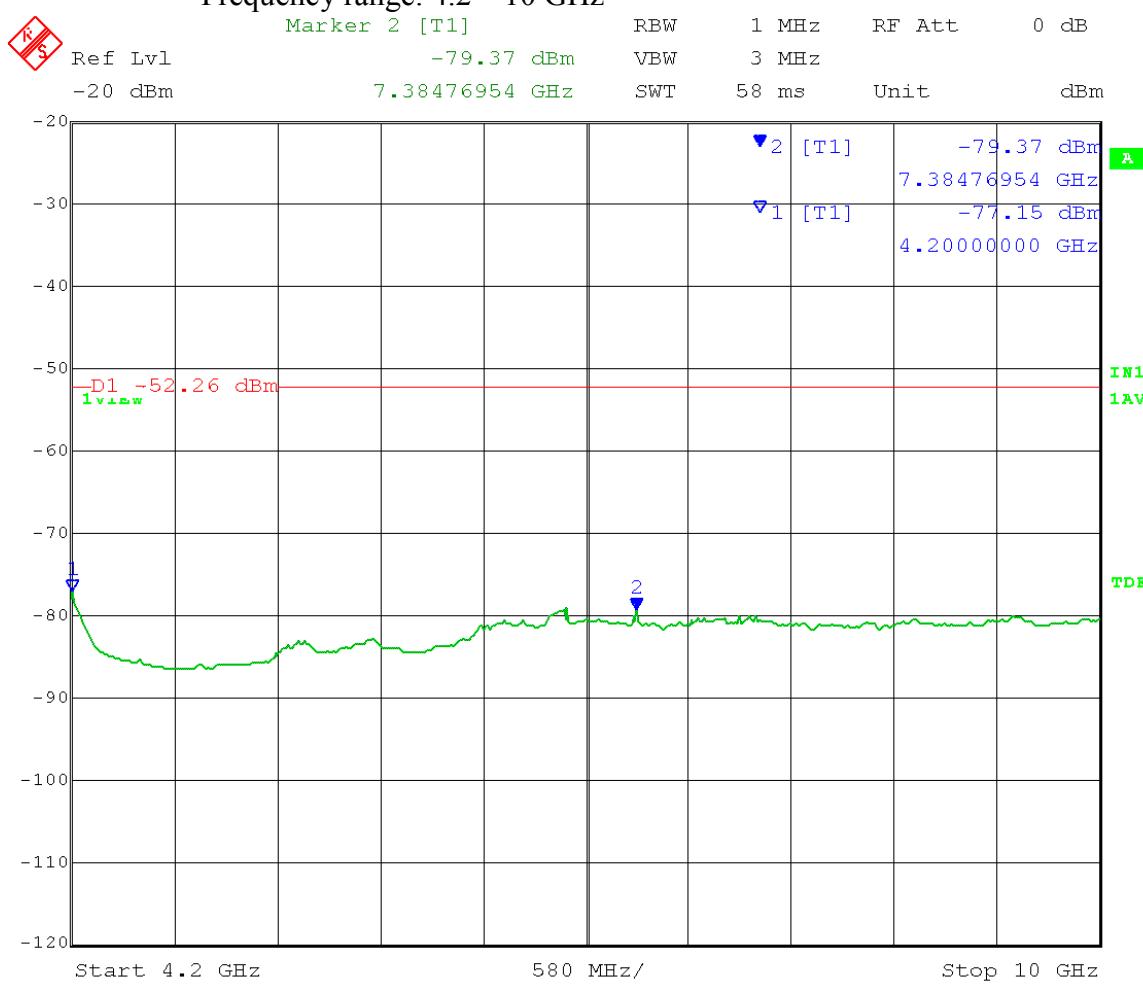
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

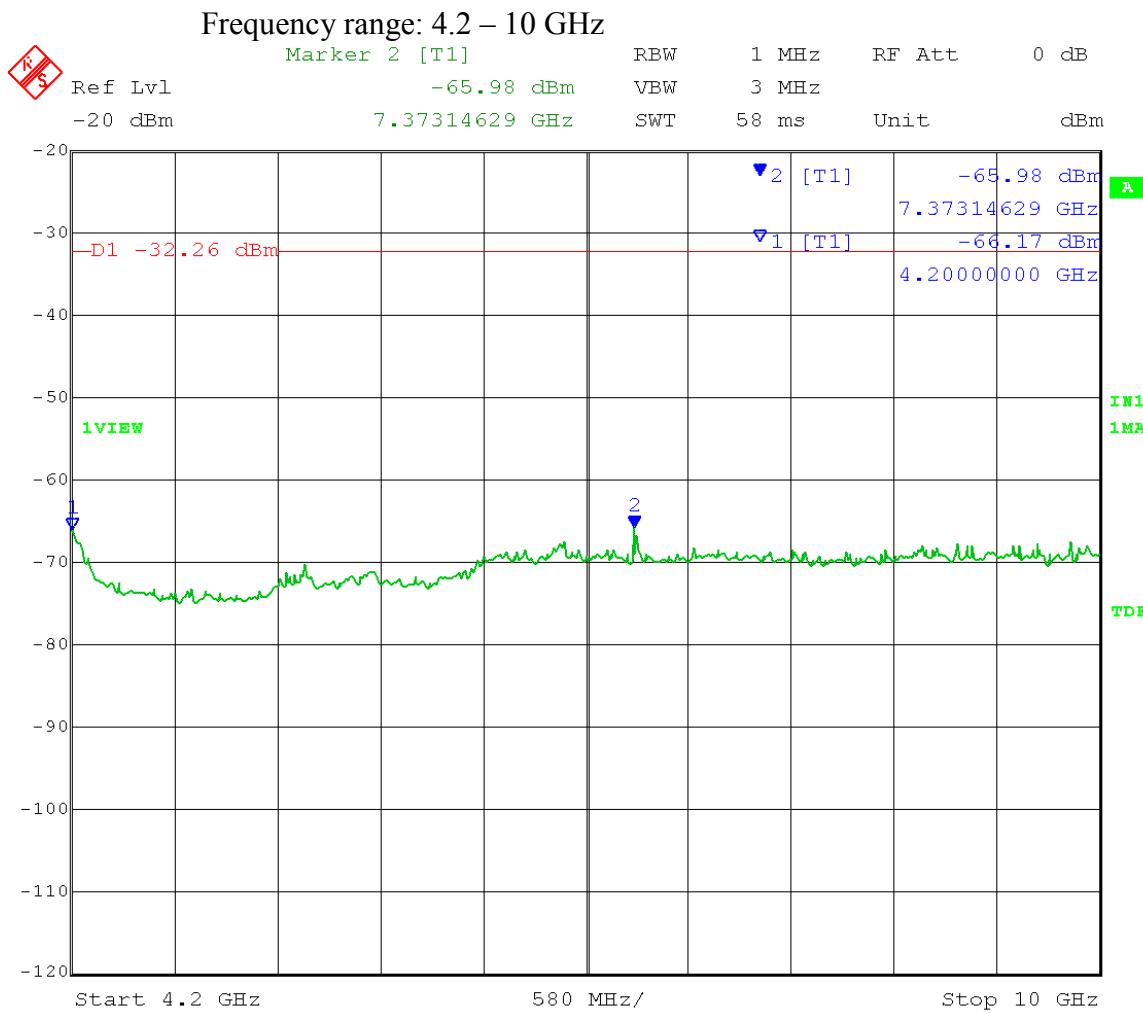
= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 4.2 – 10 GHz



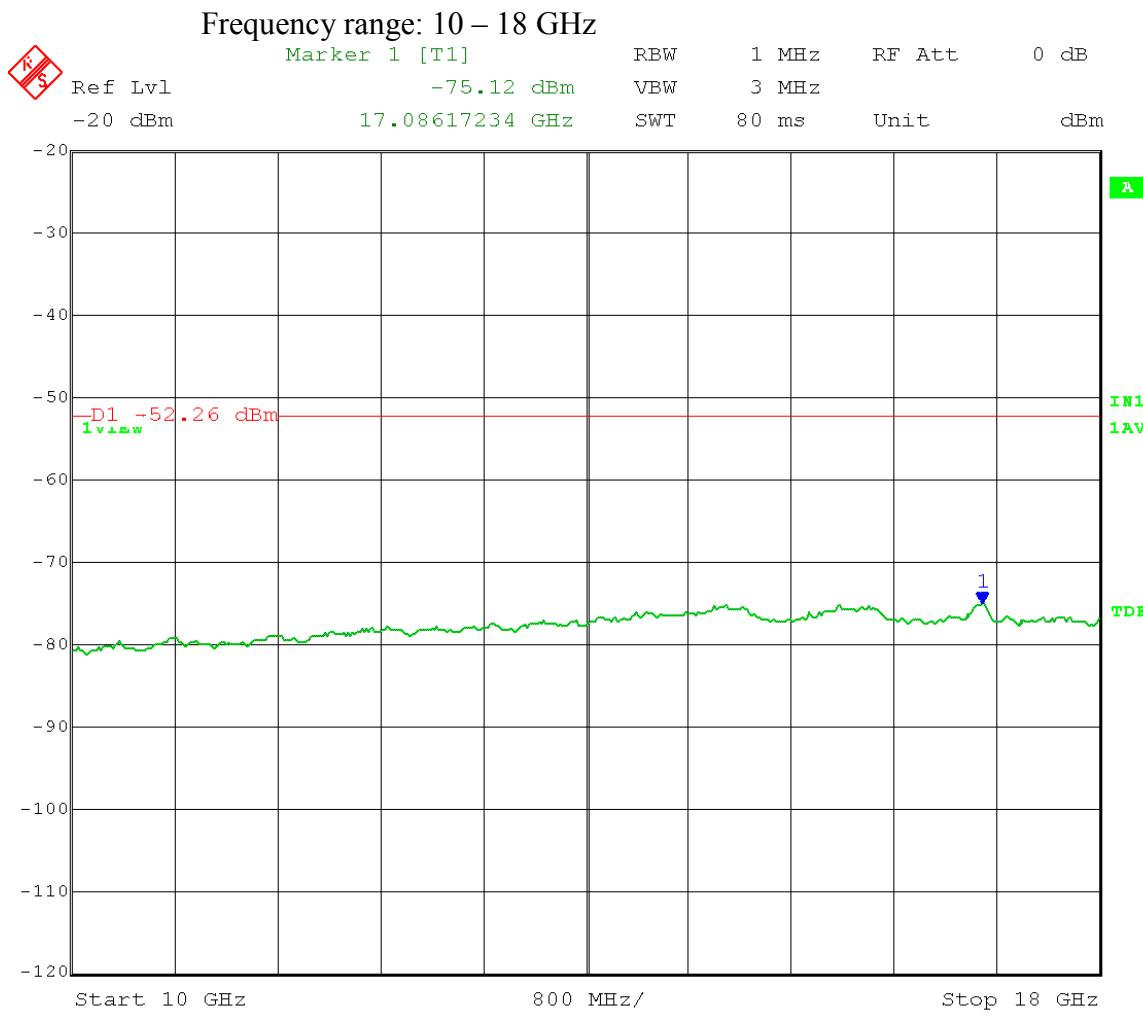
Date: 7.MAR.2014 14:21:14

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



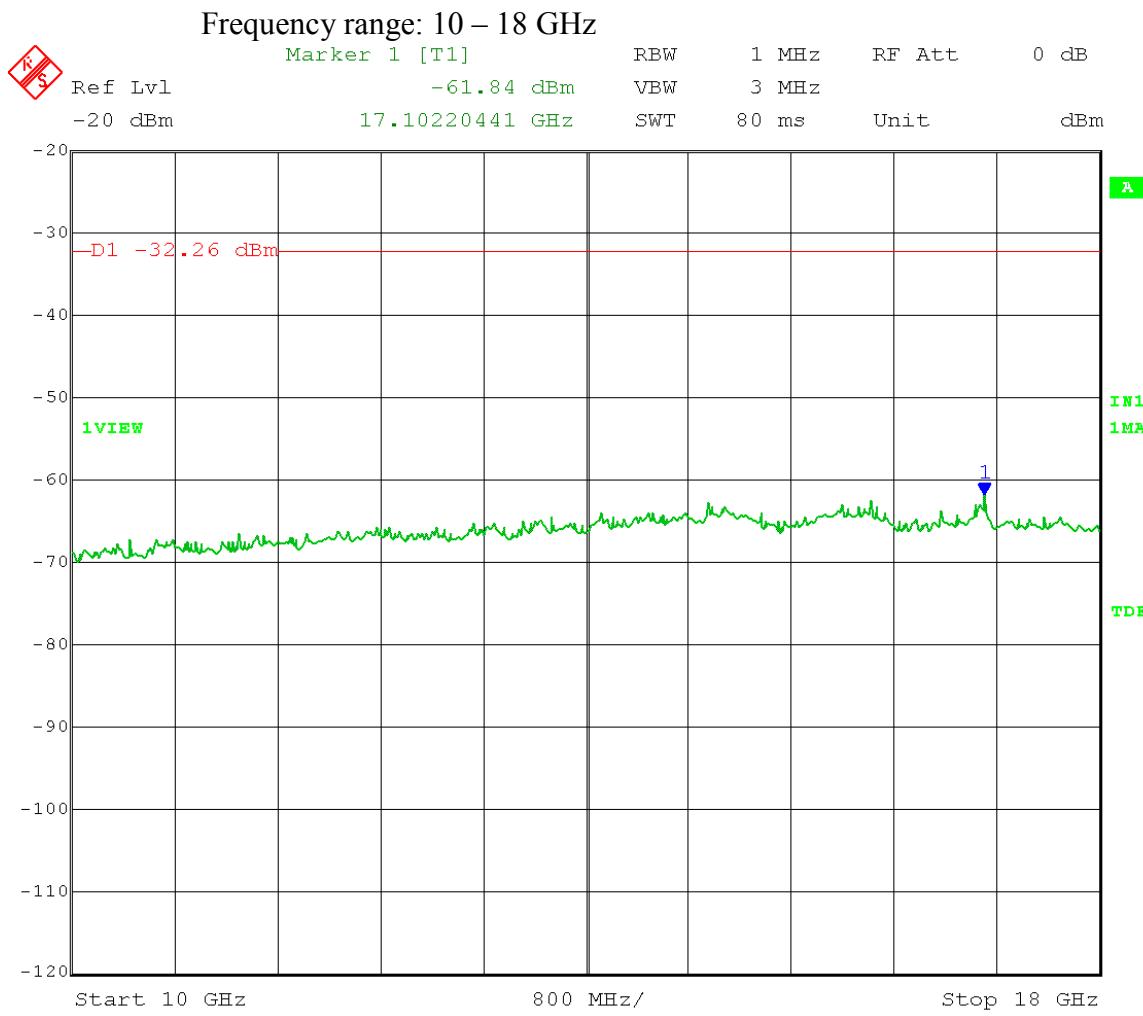
Date: 7.MAR.2014 14:22:51

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



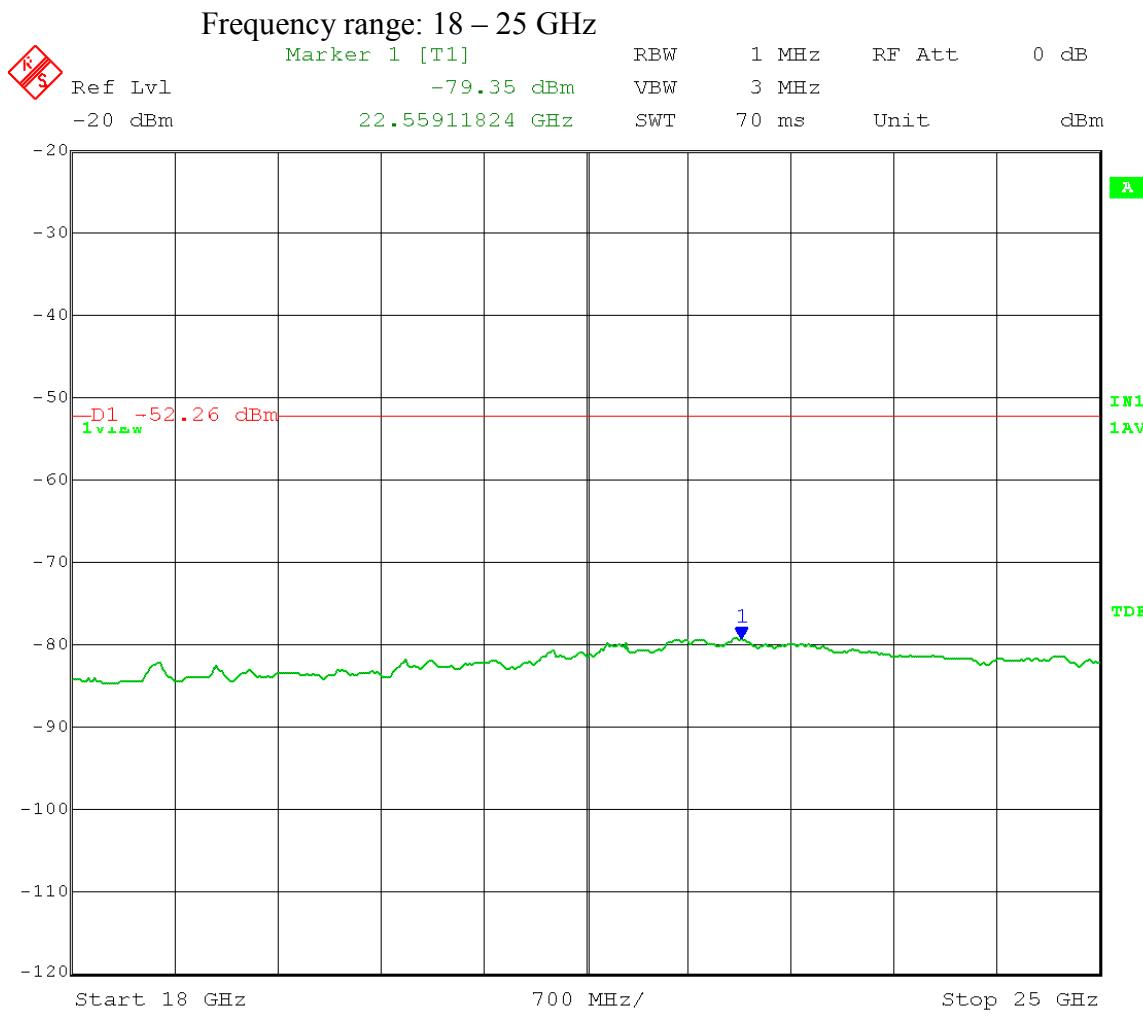
Date: 7.MAR.2014 14:46:27

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



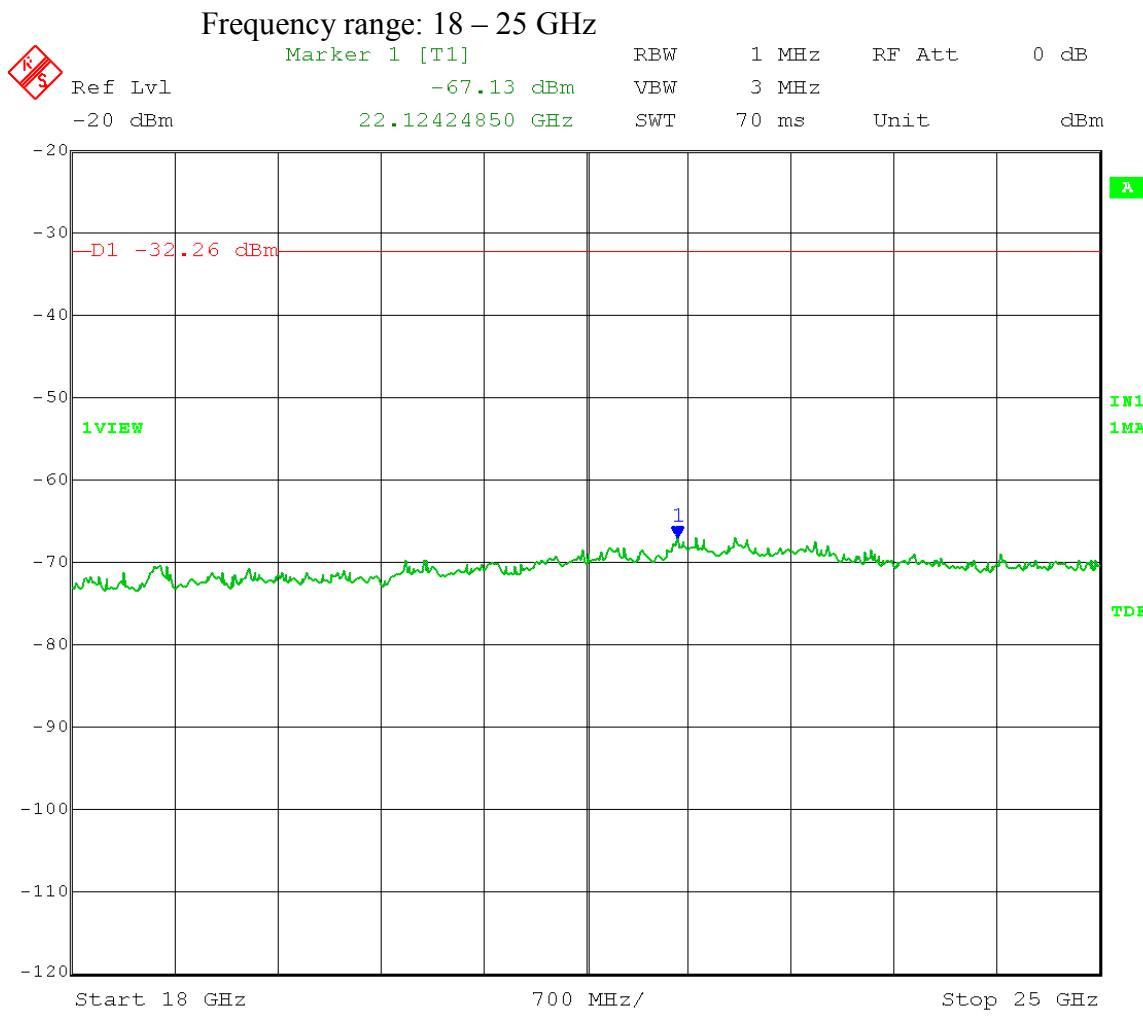
Date: 7.MAR.2014 14:47:49

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



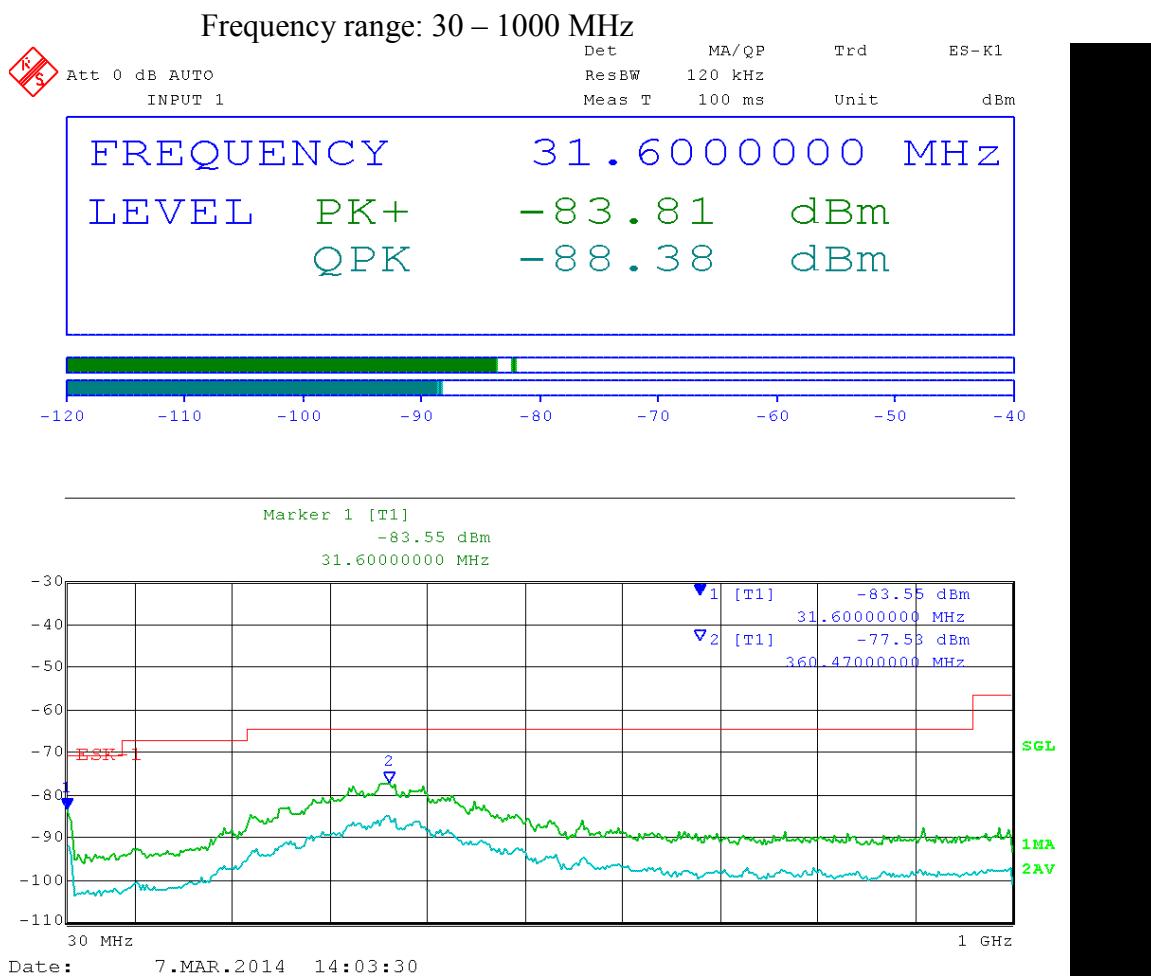
Date: 7.MAR.2014 15:19:41

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 7.MAR.2014 15:20:54

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2427 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

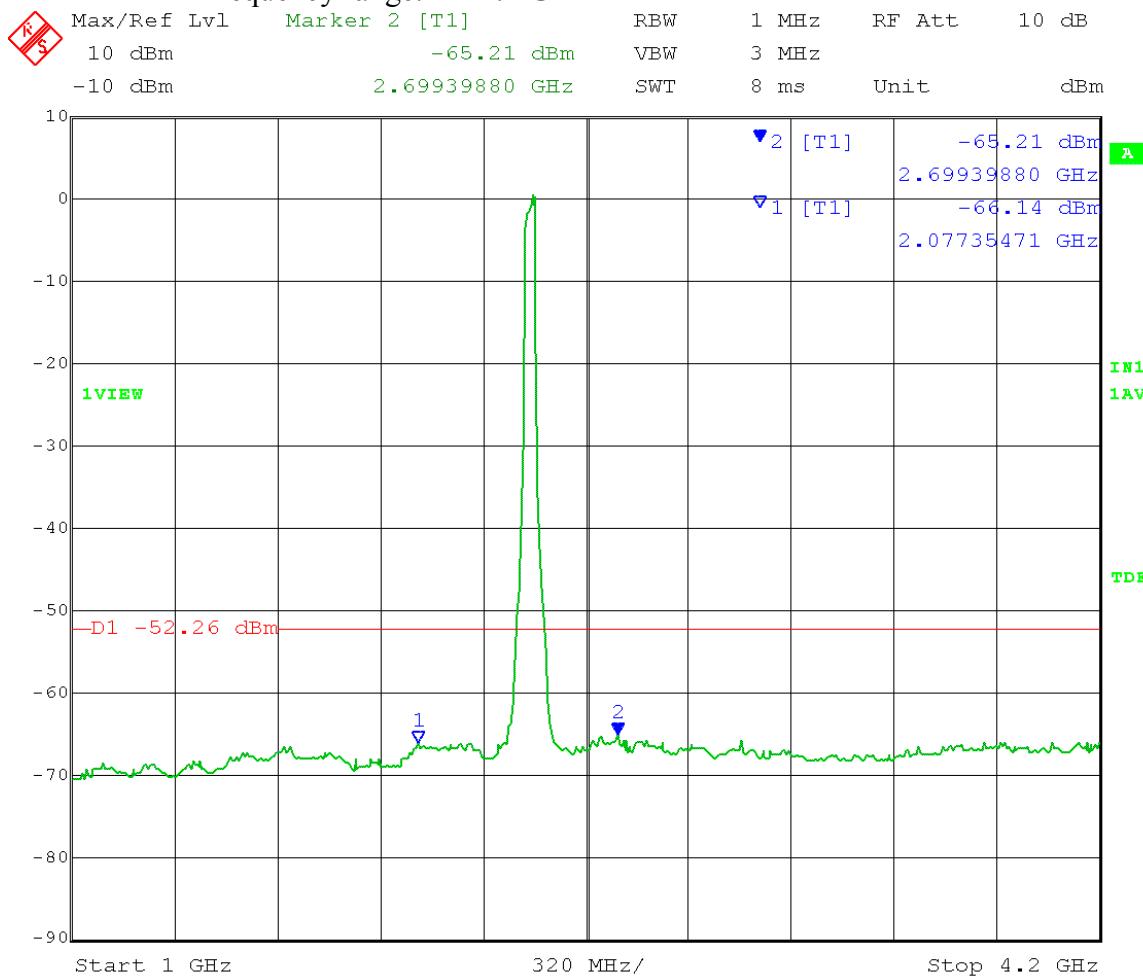
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:15:12

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

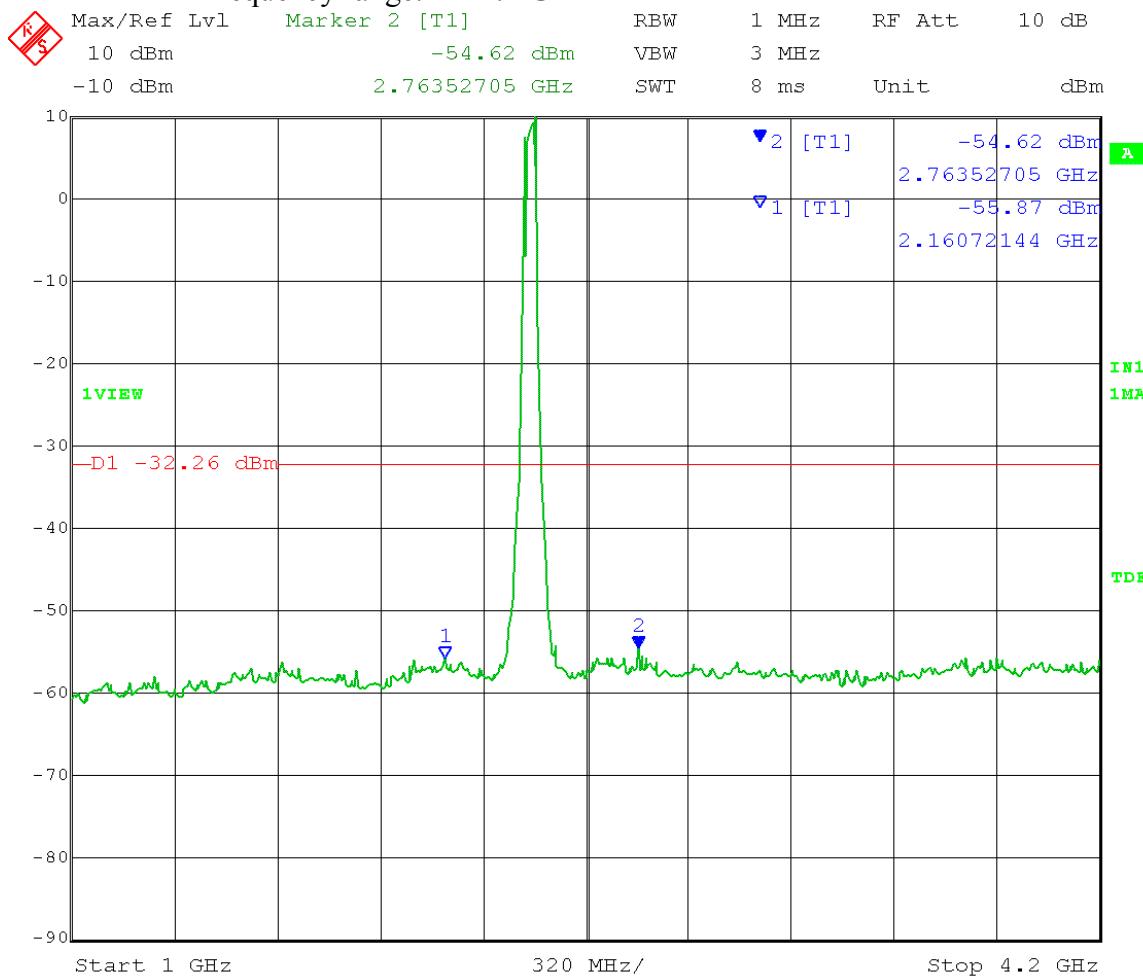
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

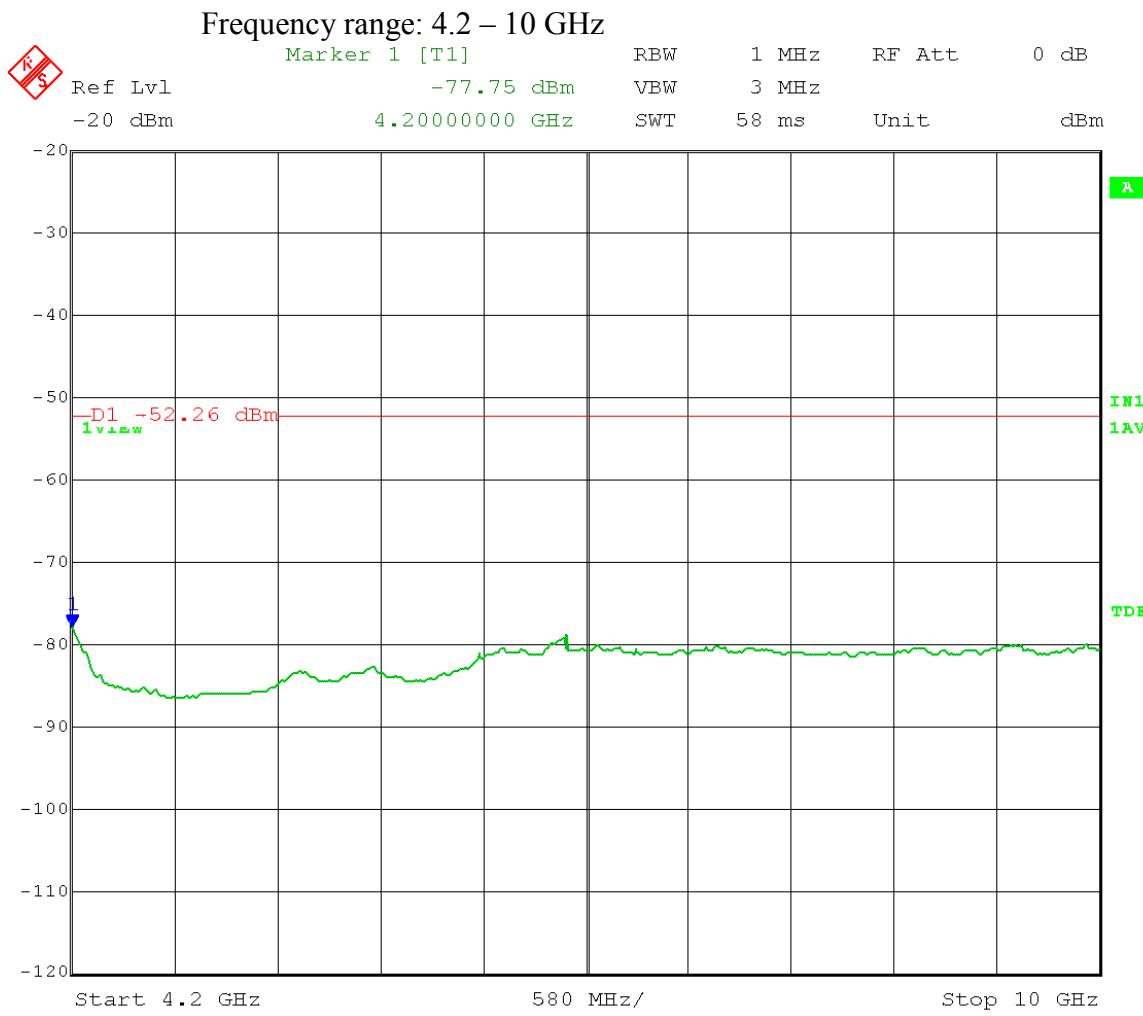
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 1 – 4.2 GHz



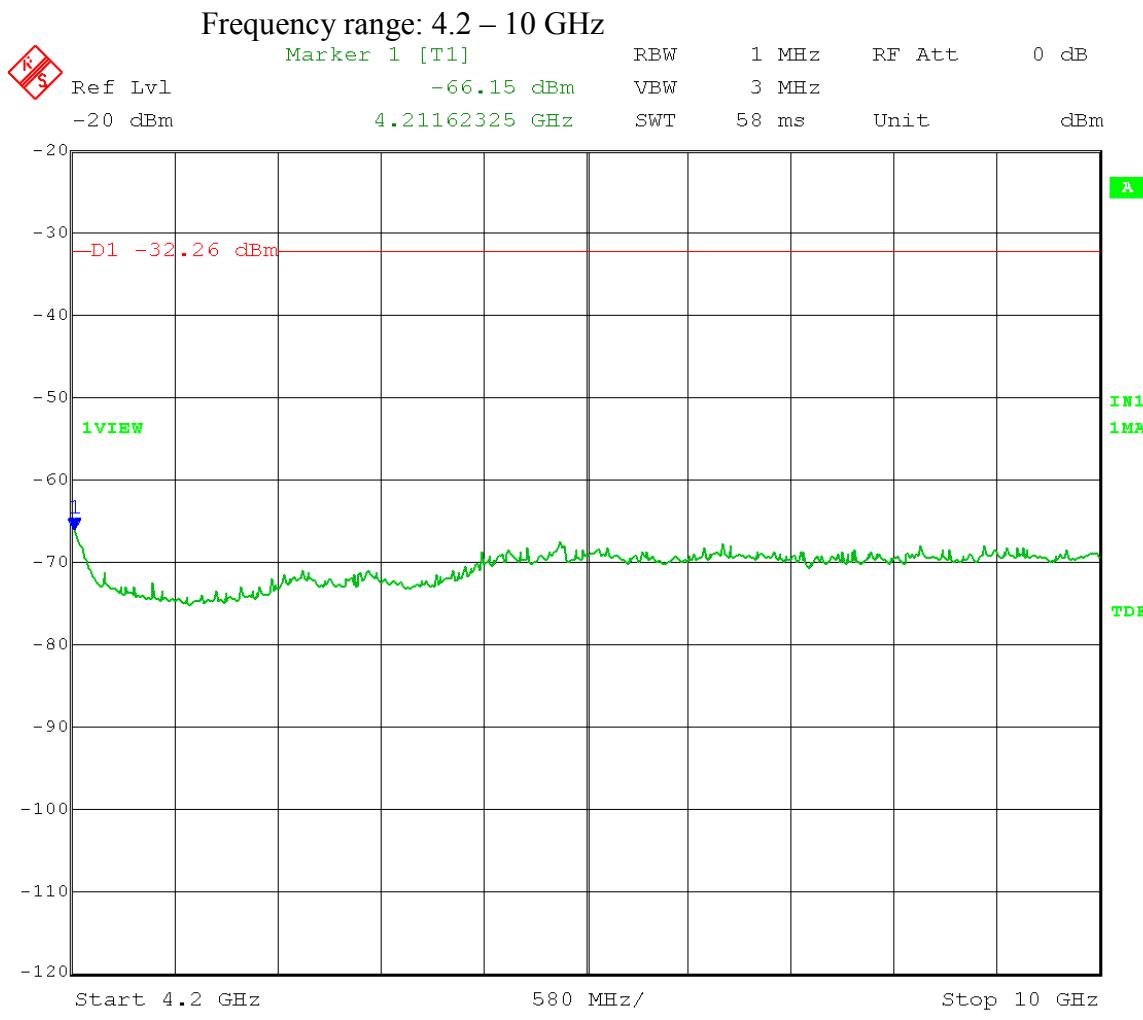
Date: 11.MAR.2014 13:14:14

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 14:30:46

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 7.MAR.2014 14:32:13

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

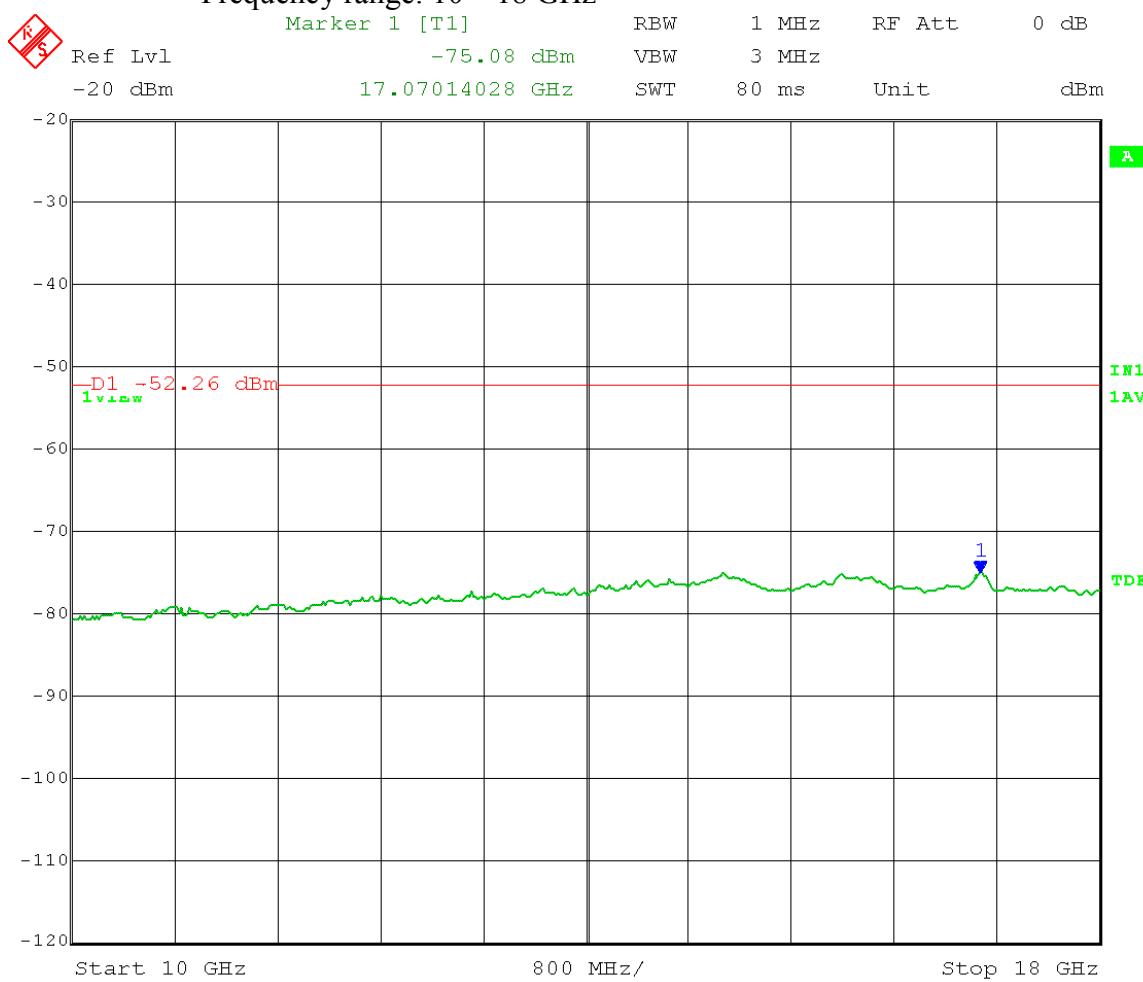
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 10 – 18 GHz



Date: 7.MAR.2014 14:54:47

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

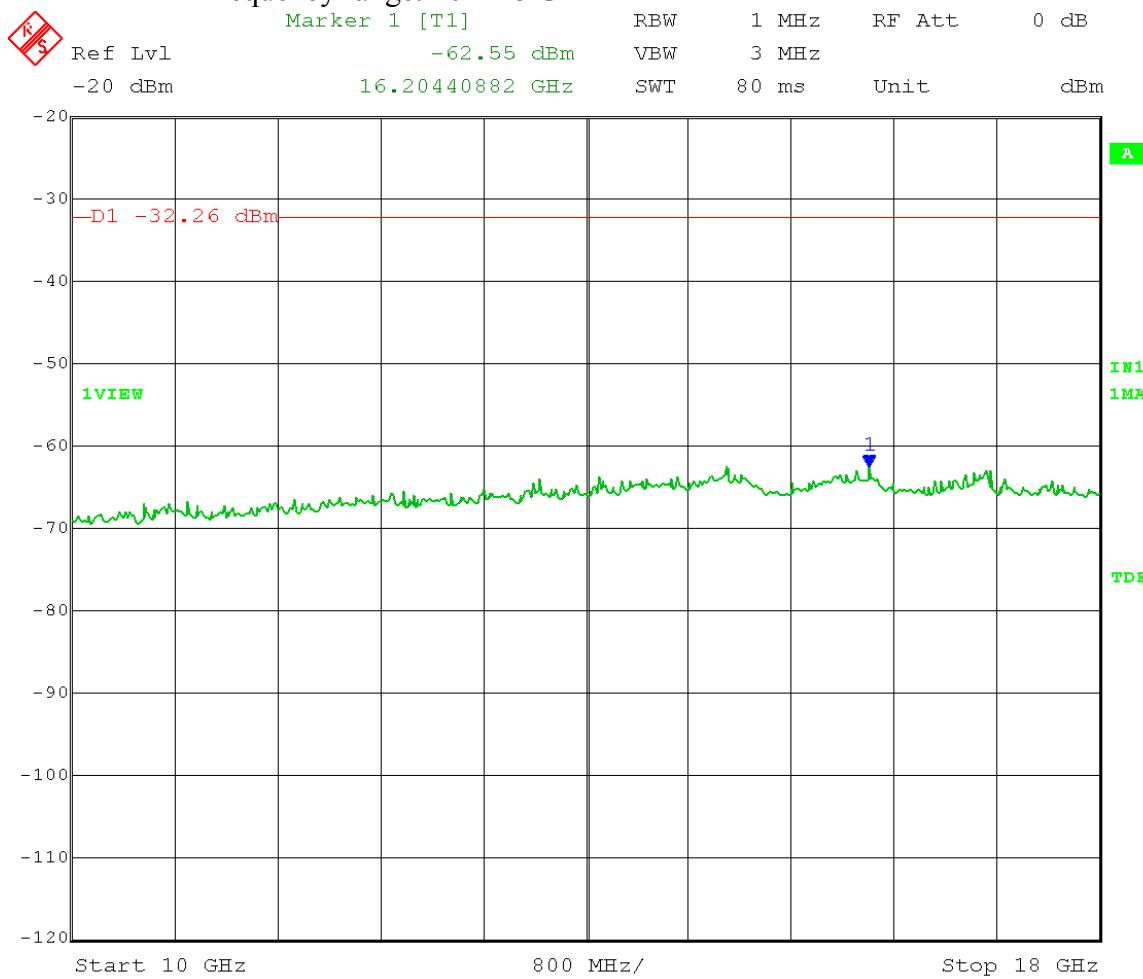
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

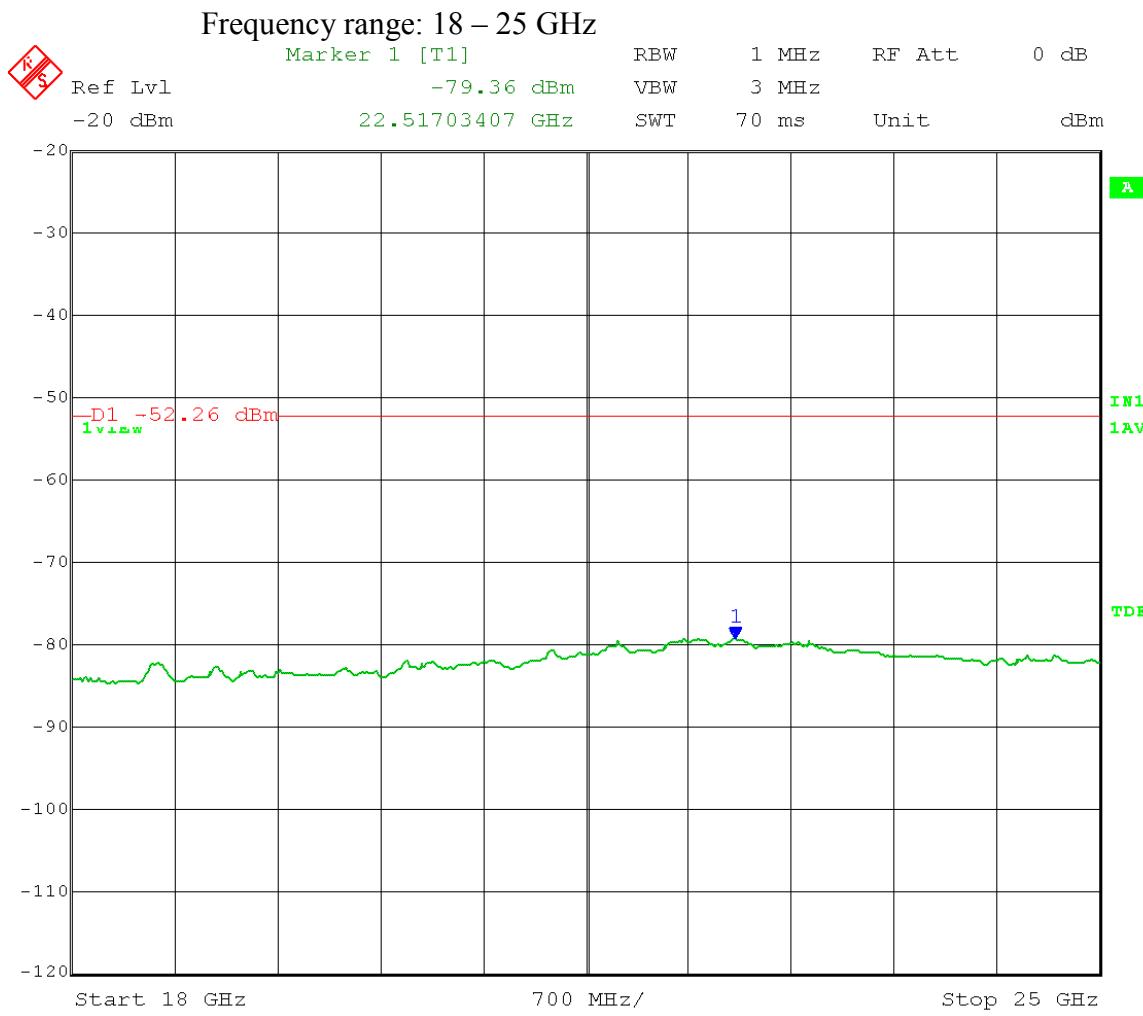
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 10 – 18 GHz



Date: 7.MAR.2014 14:56:08

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 15:27:53

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

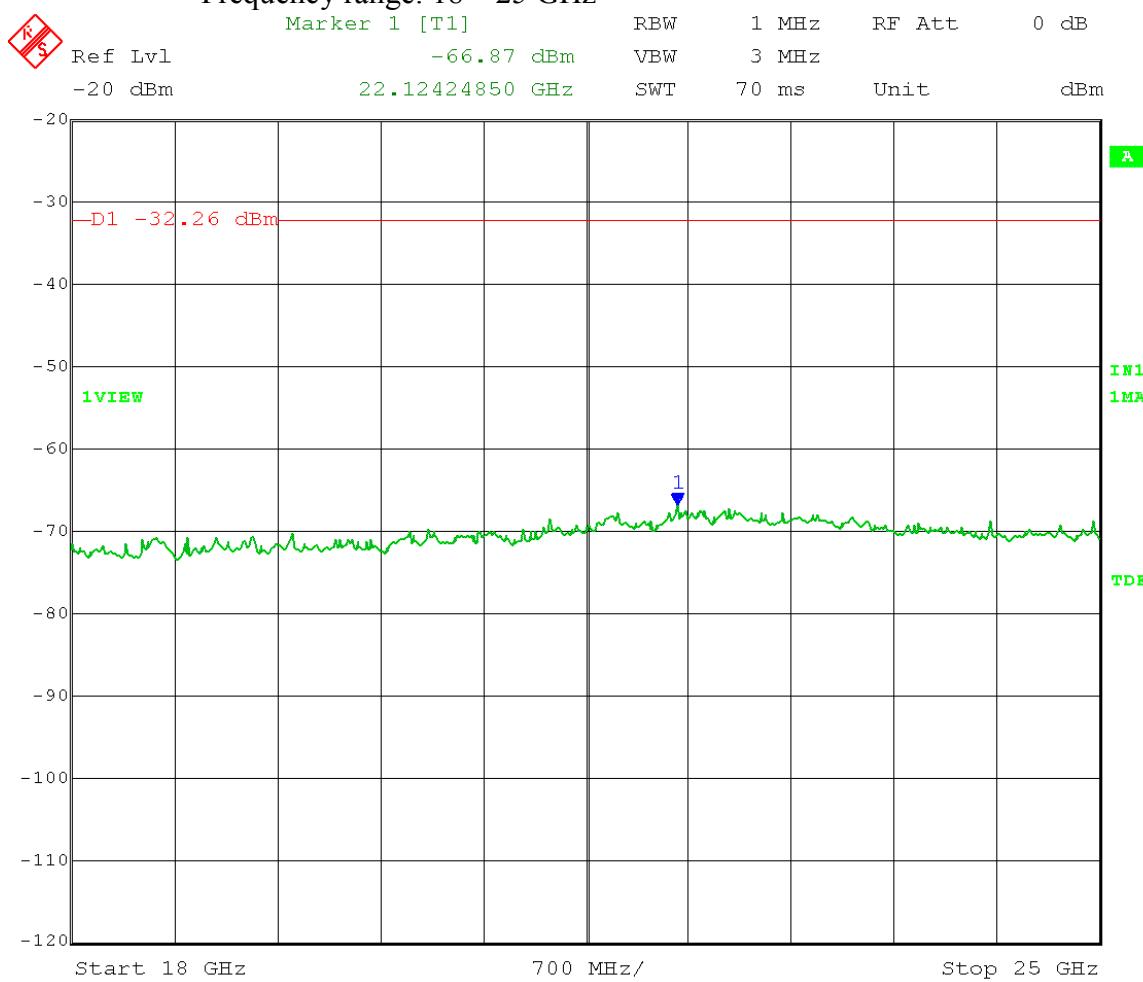
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

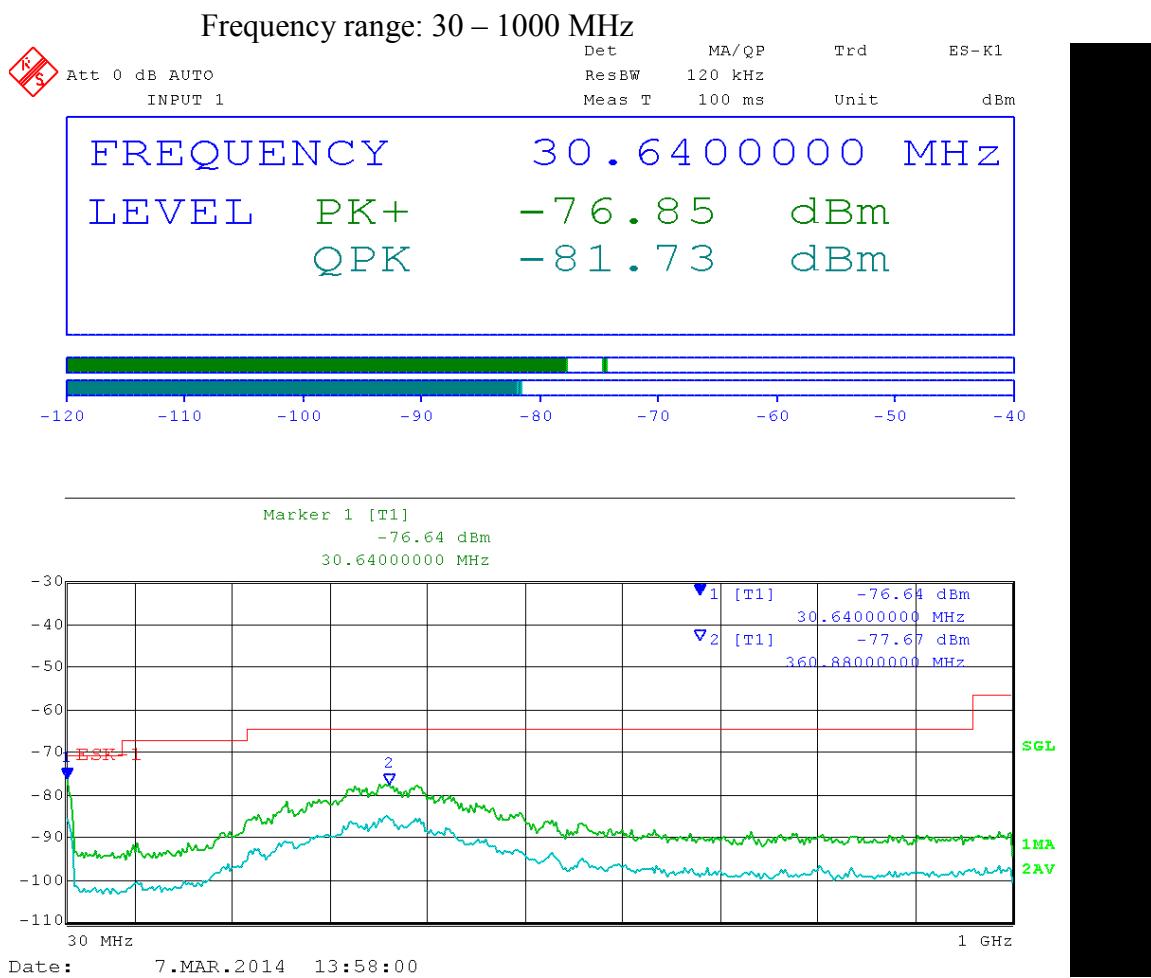
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 18 – 25 GHz



Date: 7.MAR.2014 15:29:16

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

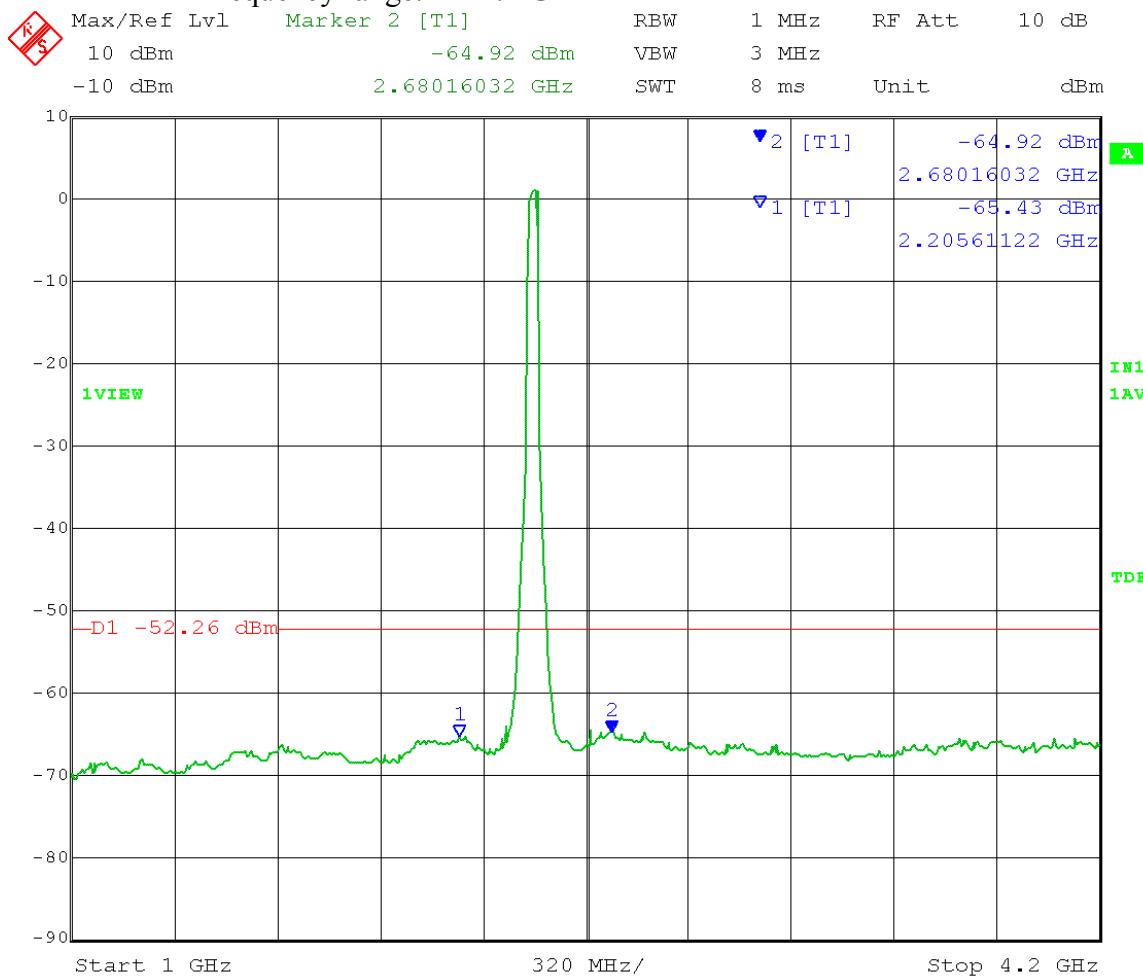
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:11:02

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

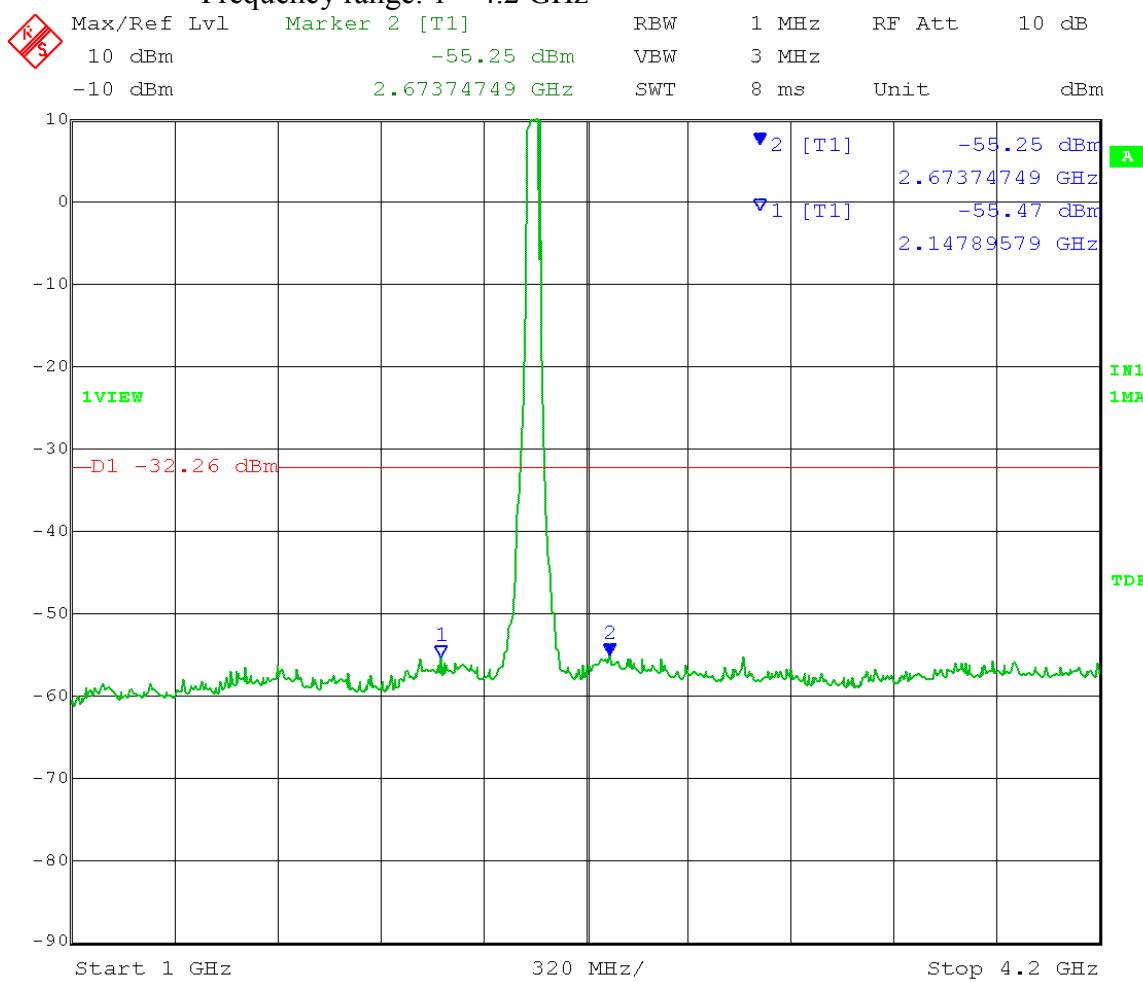
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 11.MAR.2014 13:12:01

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

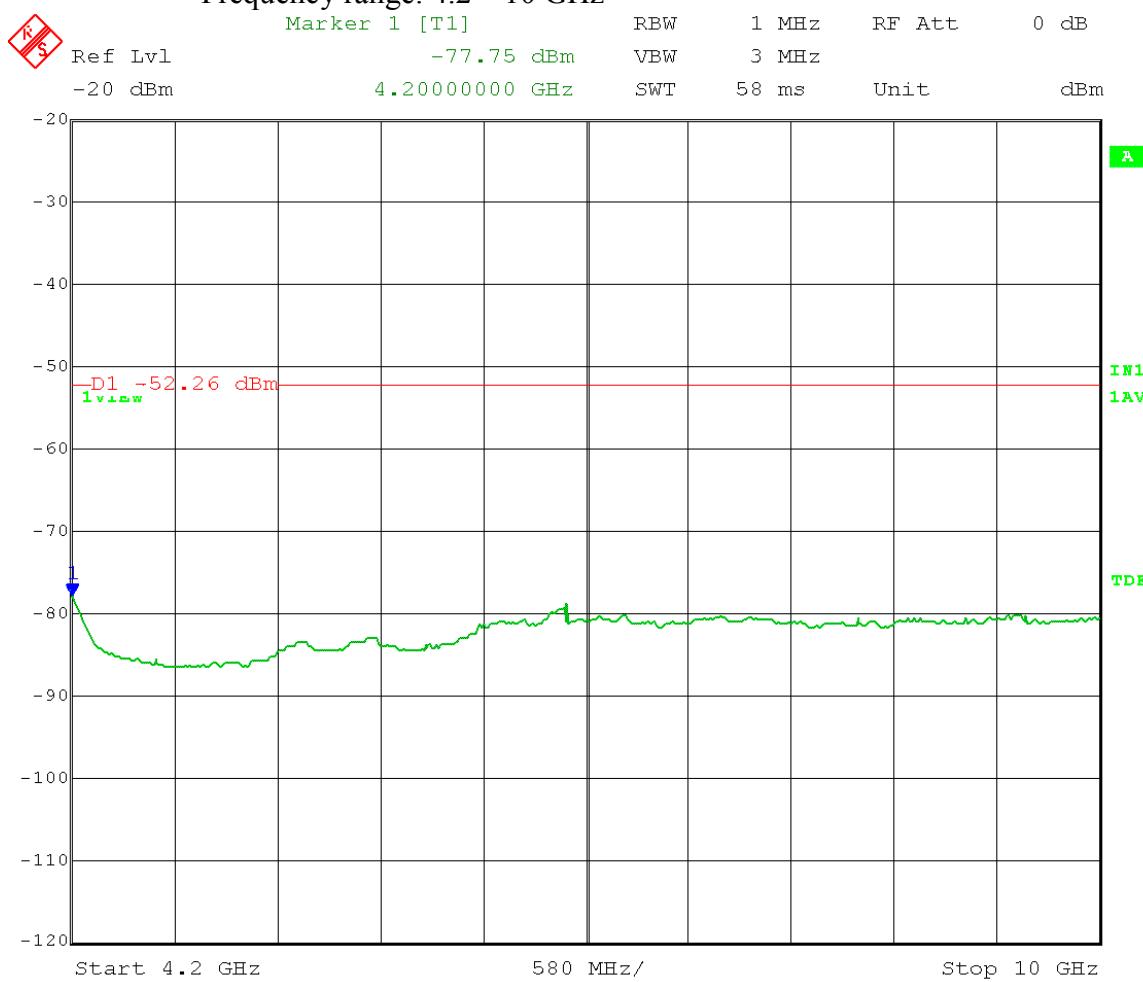
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 4.2 – 10 GHz



Date: 7.MAR.2014 14:25:34

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

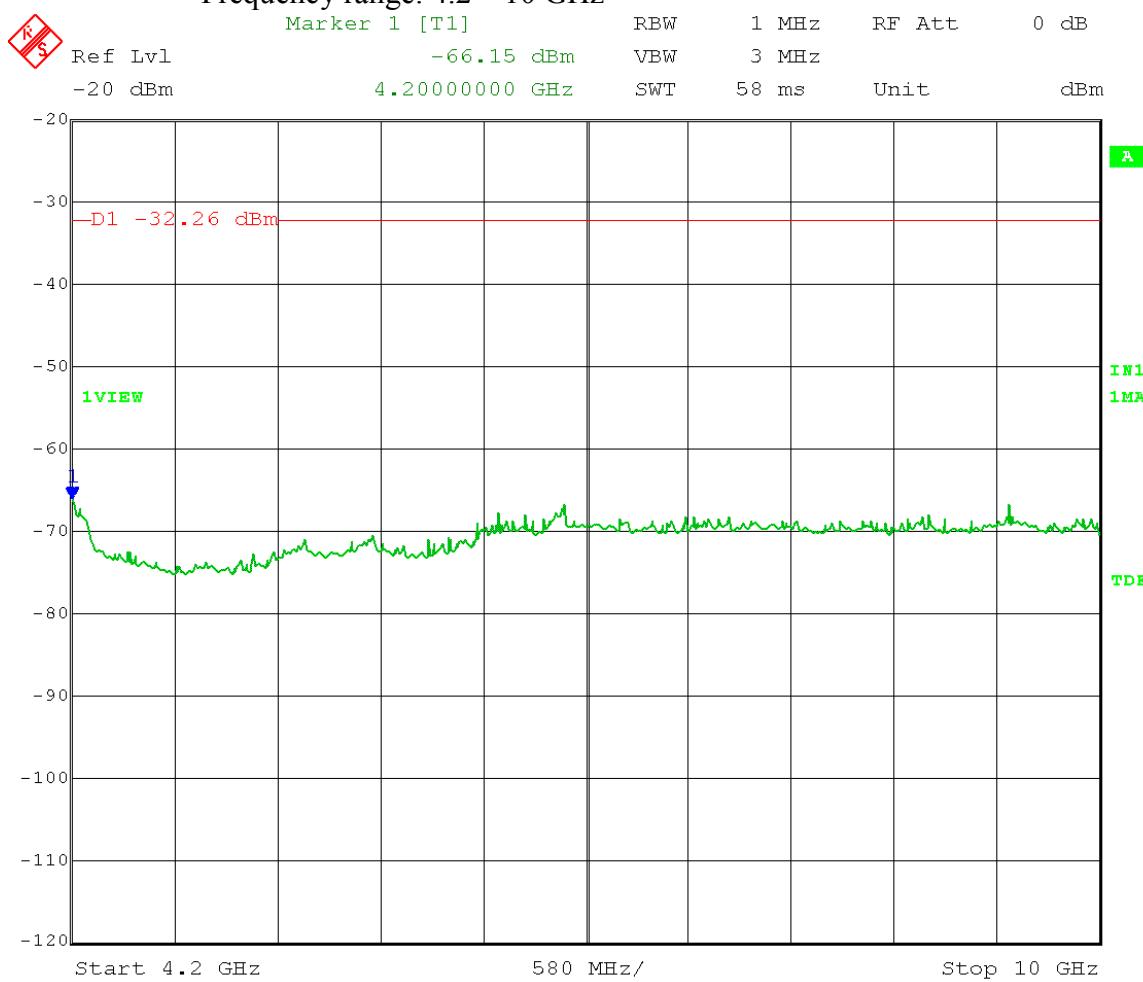
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 4.2 – 10 GHz



Date: 7.MAR.2014 14:26:49

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

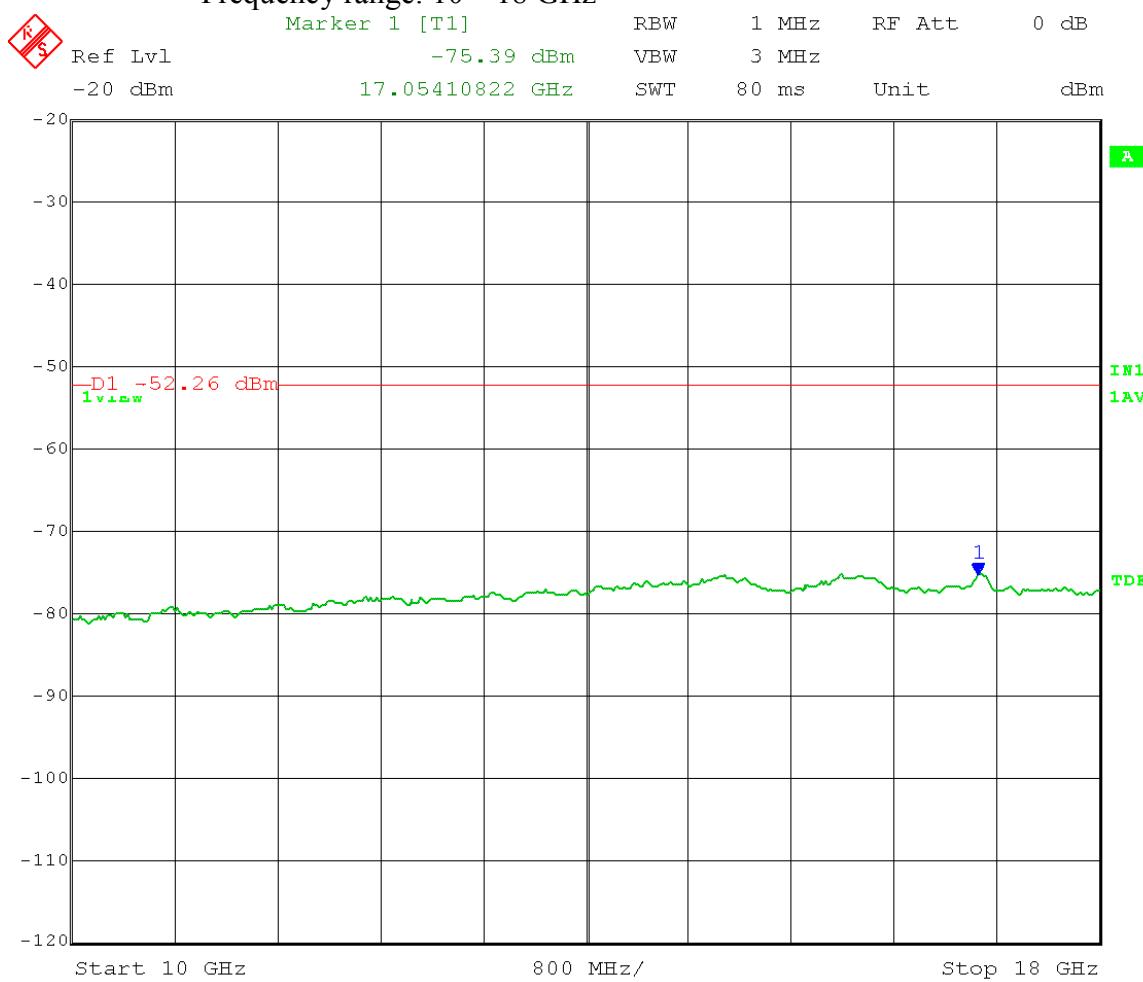
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

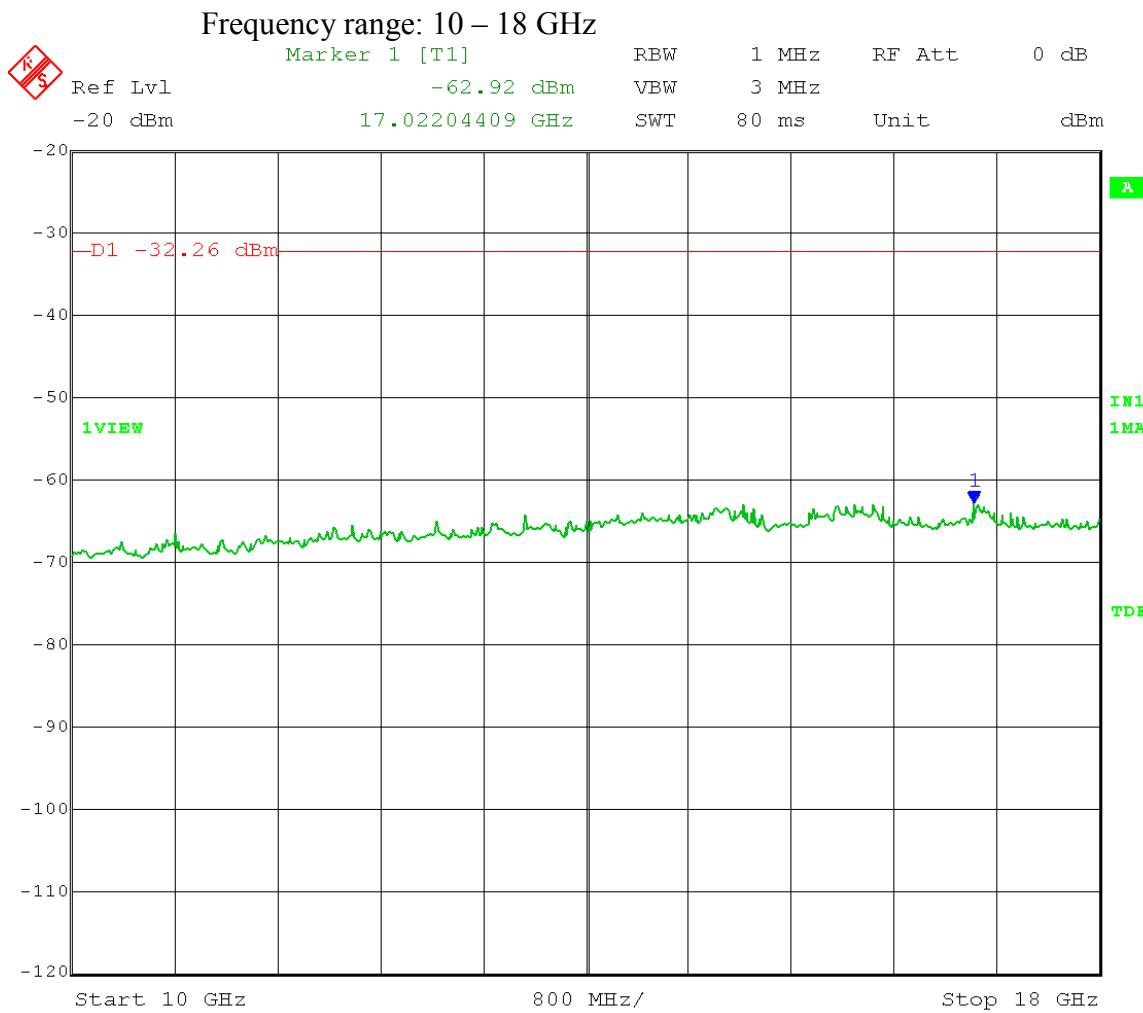
= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 10 – 18 GHz



Date: 7.MAR.2014 14:50:41

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 18 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 7.MAR.2014 14:52:05

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

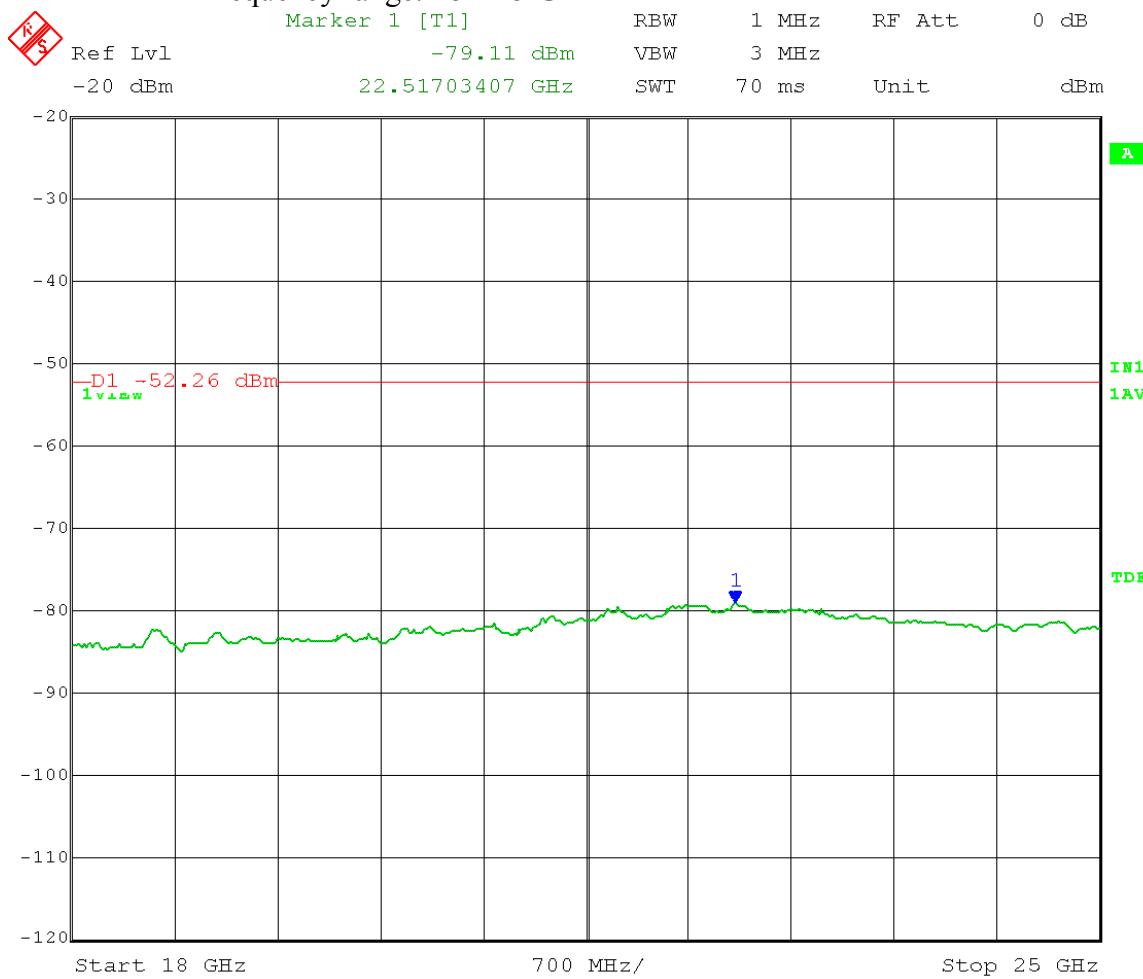
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 18 – 25 GHz



Date: 7.MAR.2014 15:23:58

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 18 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

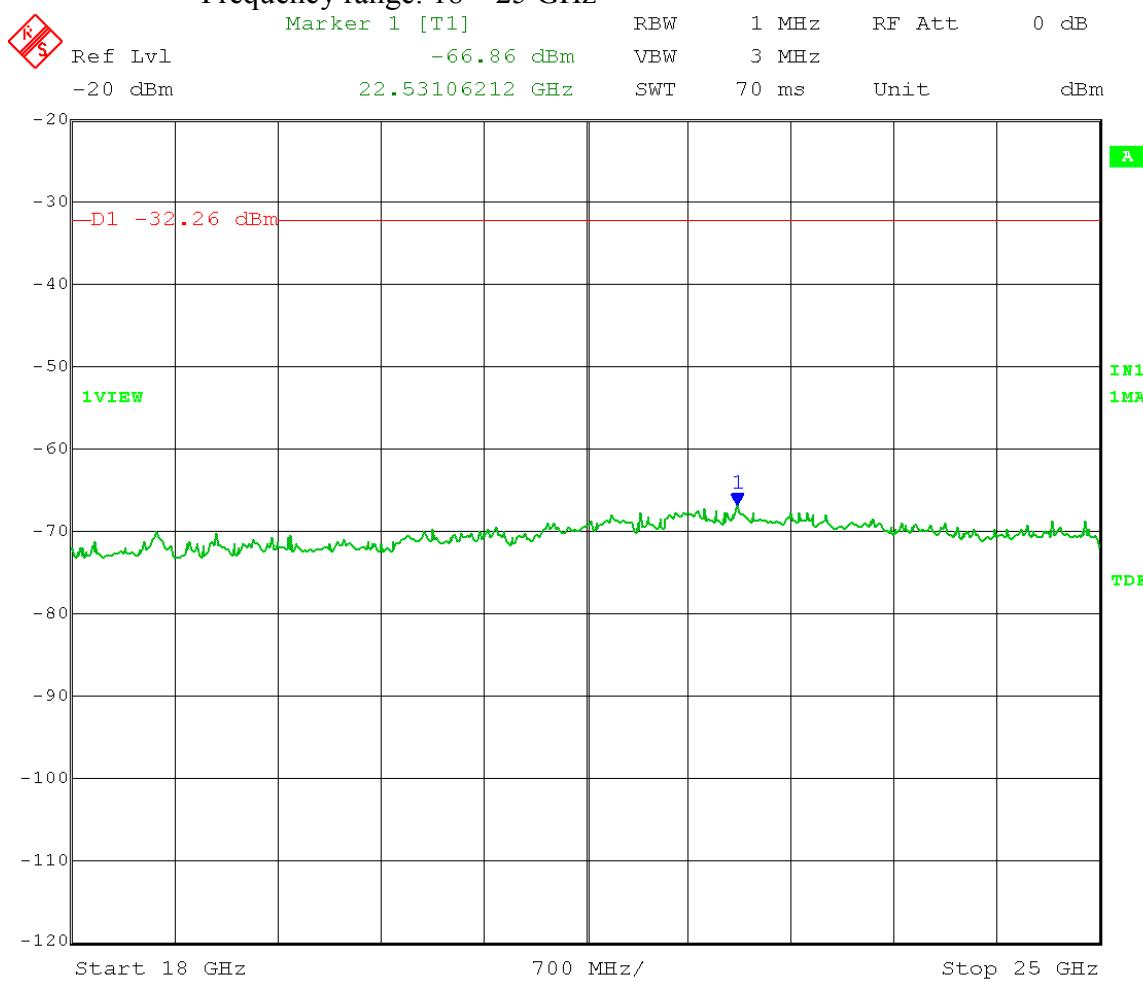
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

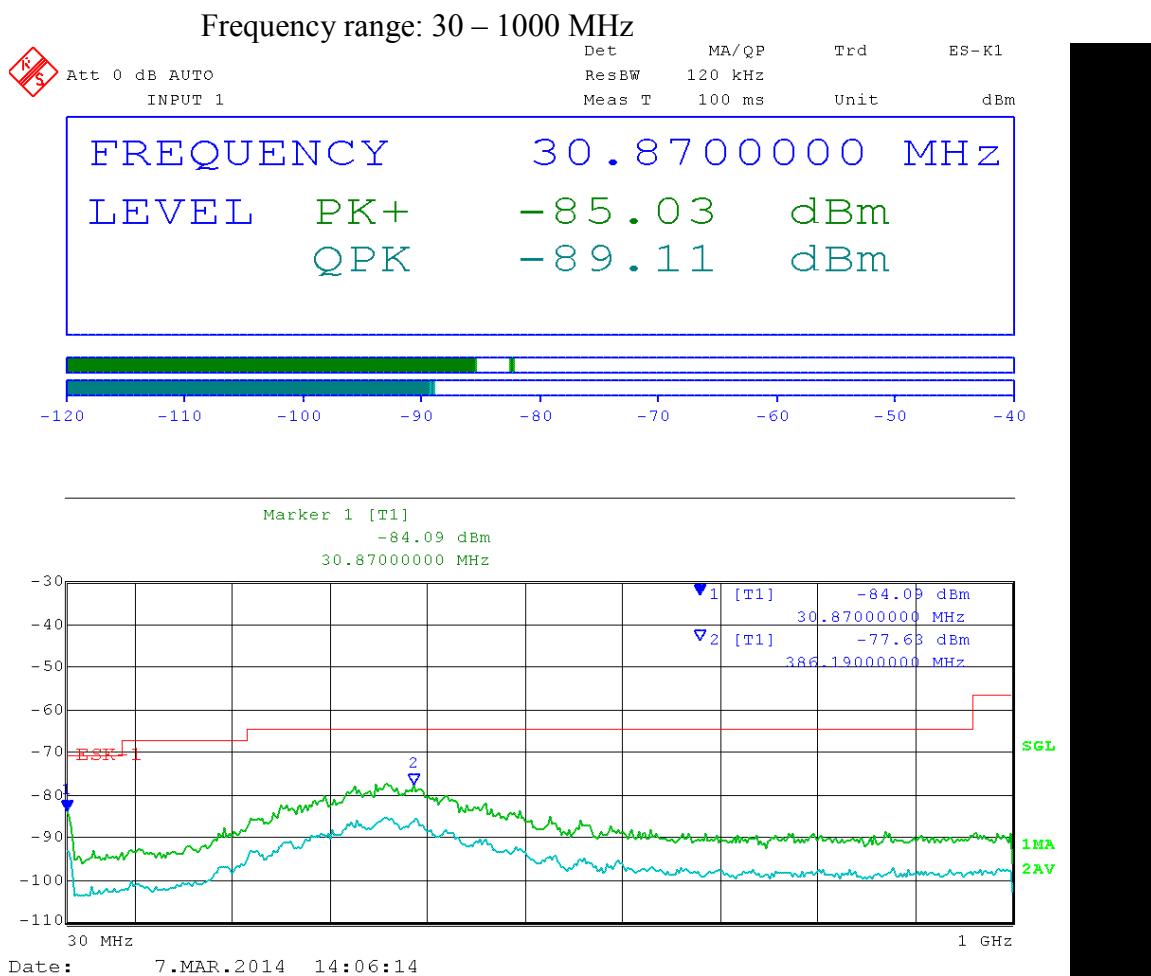
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 18 – 25 GHz



Date: 7.MAR.2014 15:25:19

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Conducted limits:
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -70.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -67.46 dBm
 216-960 MHz (46 dB μ V/m): = -64.96 dBm
 960-1000 MHz (54 dB μ V/m): = -56.96 dBm



Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

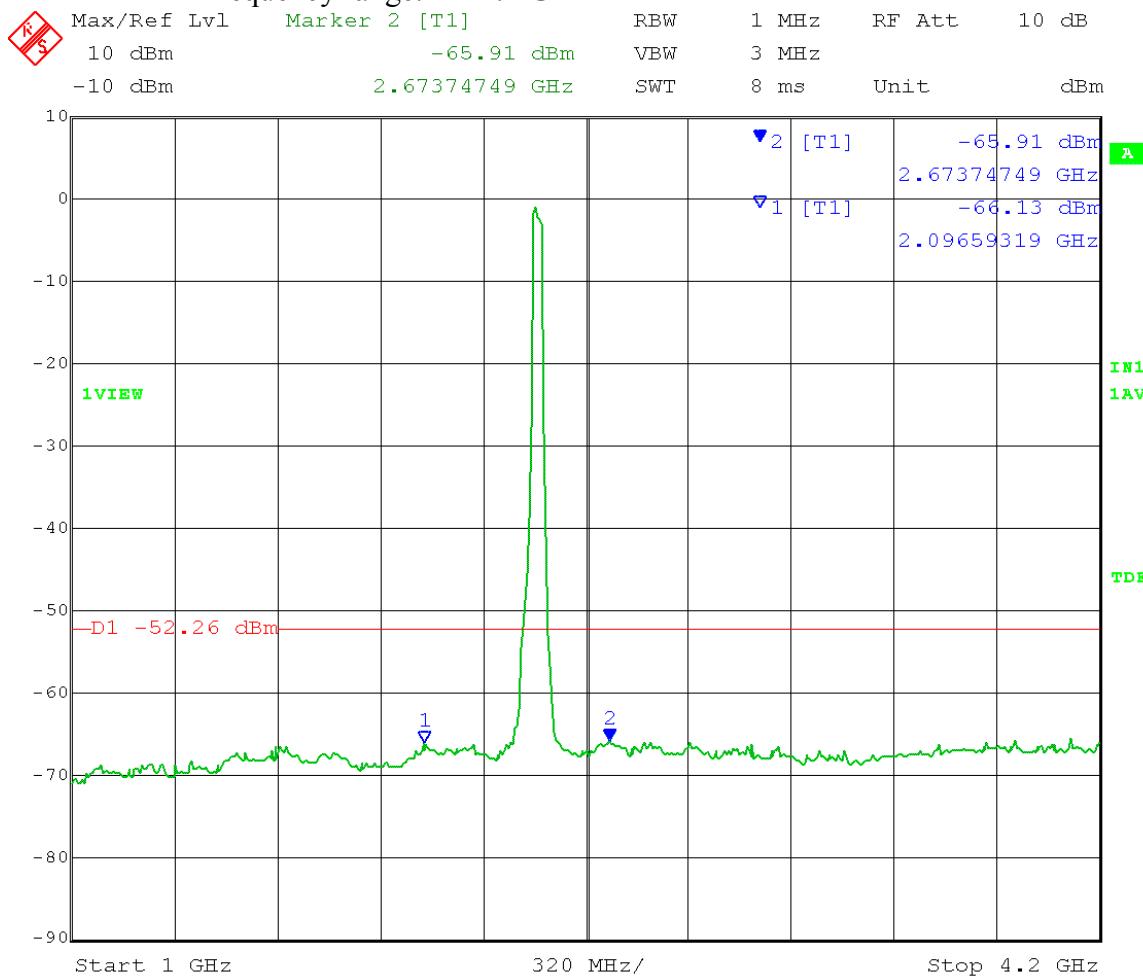
Output port: 1 OFDM MCS15

Average limit = 54 dB μ V/m at 3 meters

Conducted limit

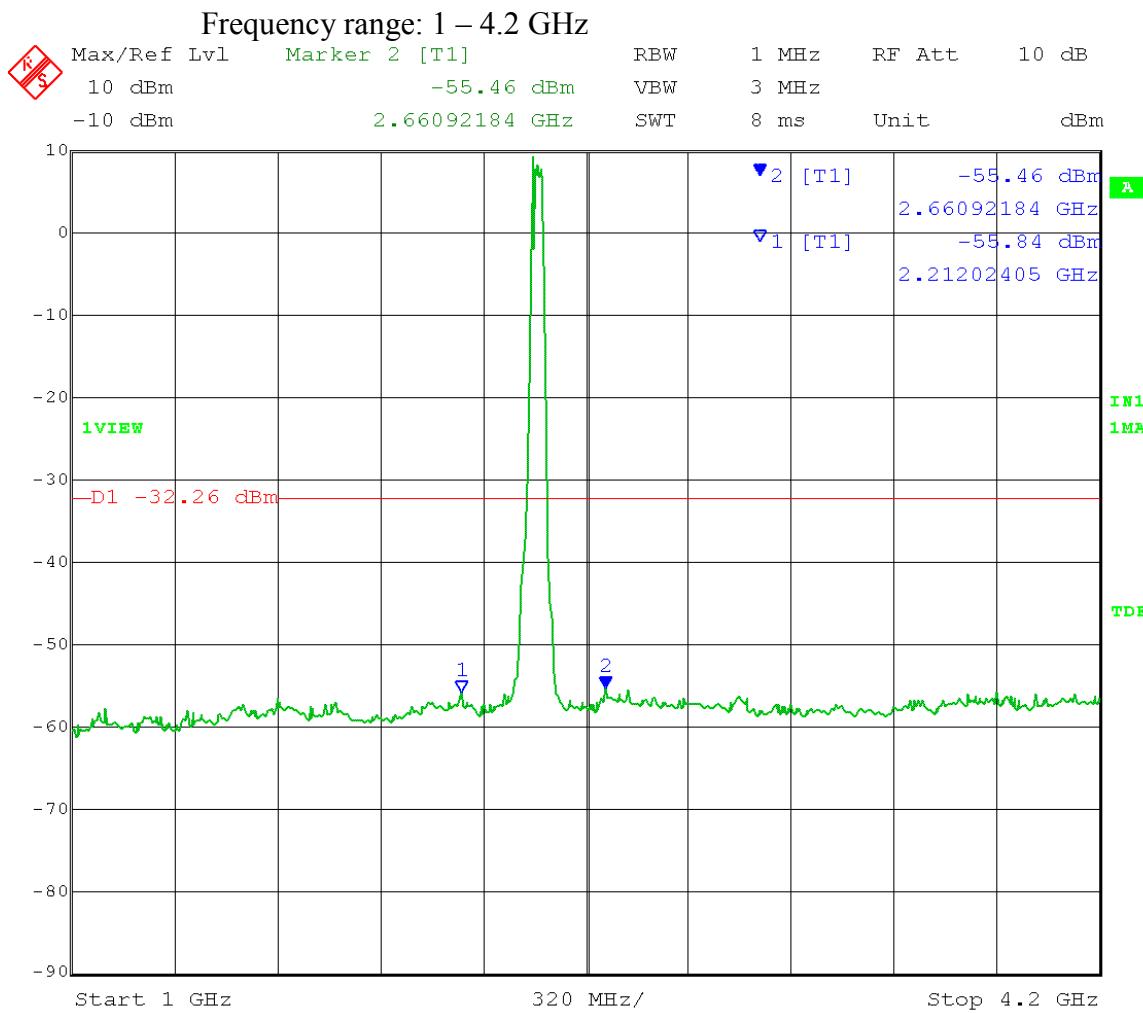
= $54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -52.26 dBm

Frequency range: 1 – 4.2 GHz



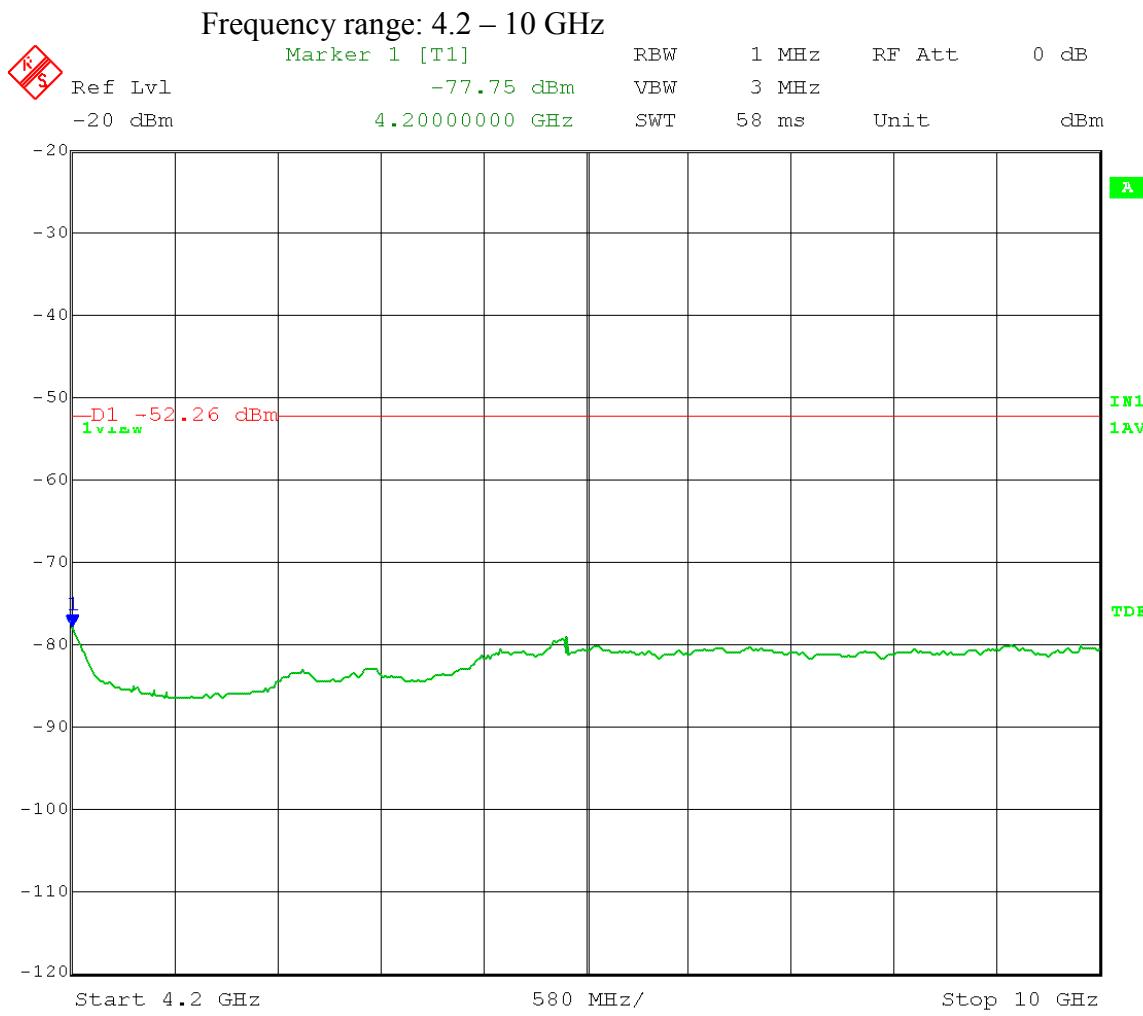
Date: 11.MAR.2014 13:17:34

Test Date: 03-11-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 11.MAR.2014 13:18:28

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 14:36:59

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

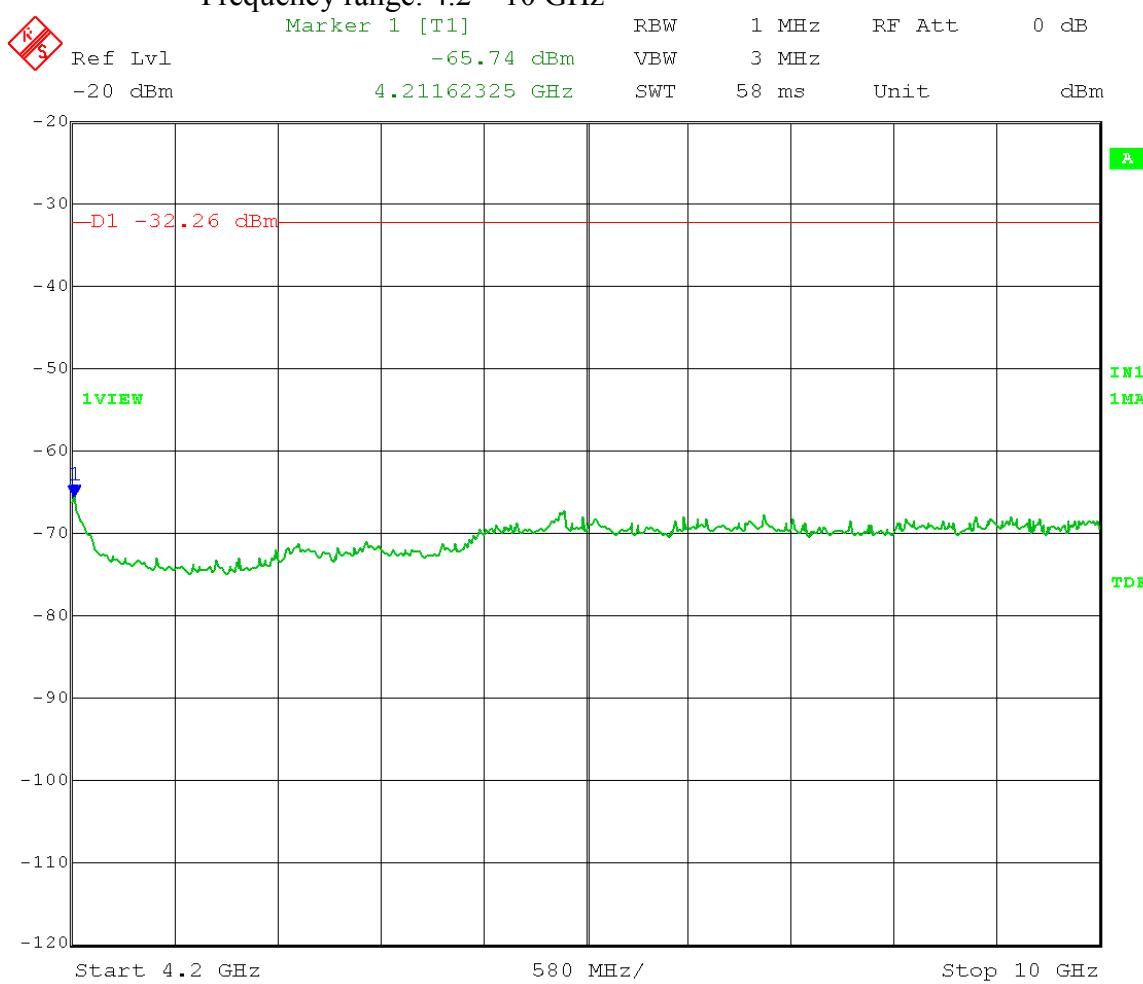
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

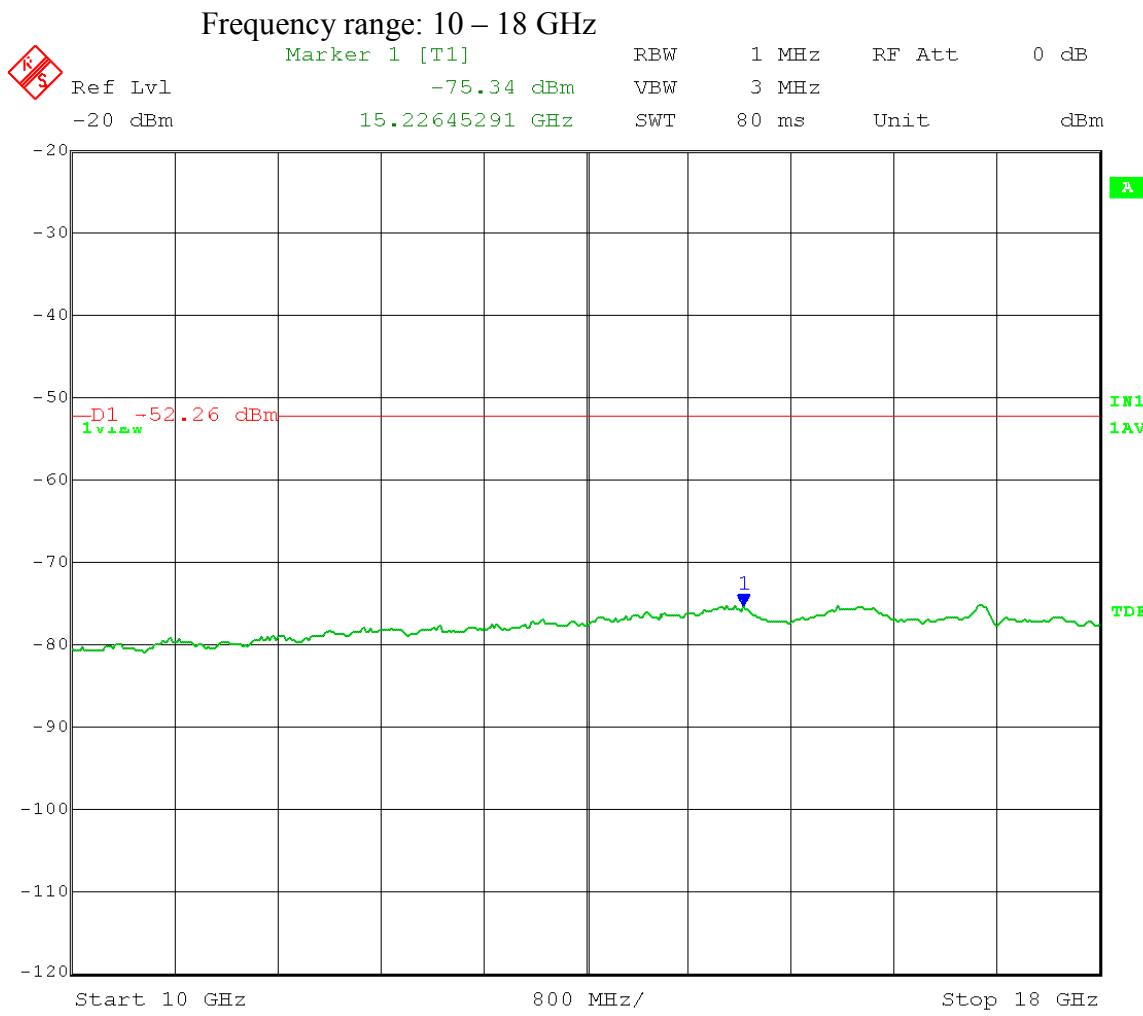
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 4.2 – 10 GHz



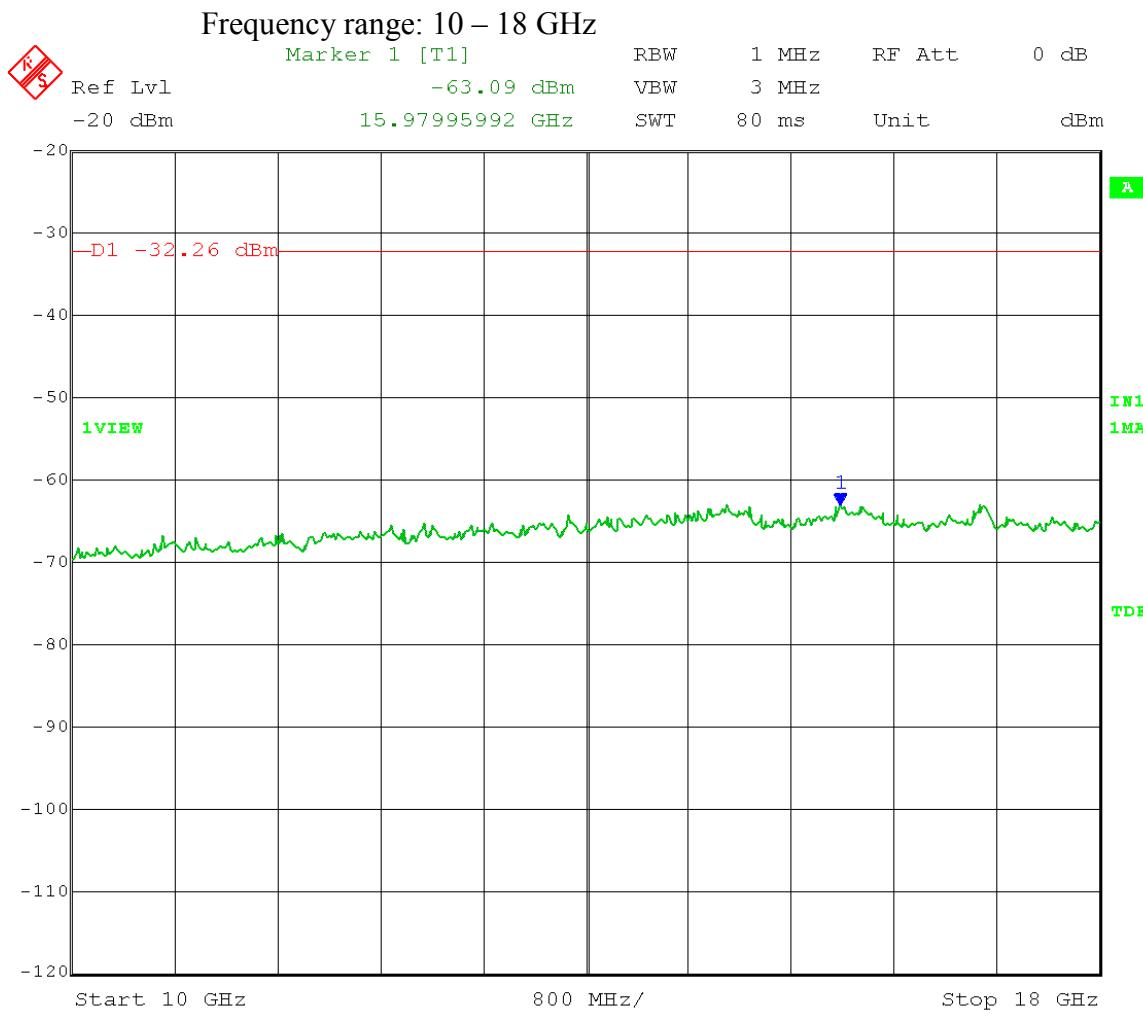
Date: 7.MAR.2014 14:38:49

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



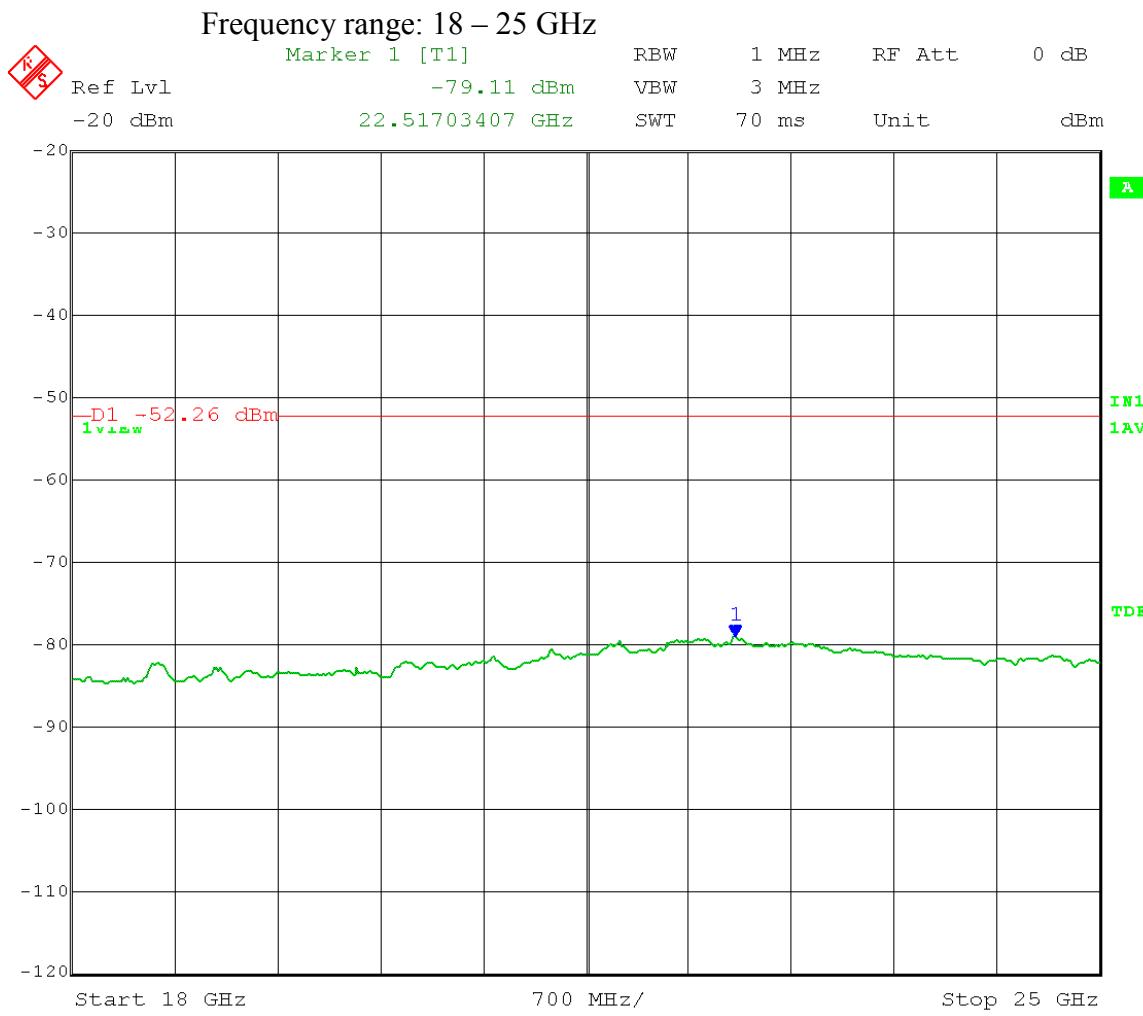
Date: 7.MAR.2014 14:58:33

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -32.26 \text{ dBm}$



Date: 7.MAR.2014 14:59:48

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
POINT-TO-MULTIPOINT OPERATION
 Output Power Setting 15.5 Antenna gain: 8 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -52.26 \text{ dBm}$



Date: 7.MAR.2014 15:31:47

Test Date: 03-07-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz

POINT-TO-MULTIPOINT OPERATION

Output Power Setting 15.5 Antenna gain: 8 dBi

Channel bandwidth: 40 MHz

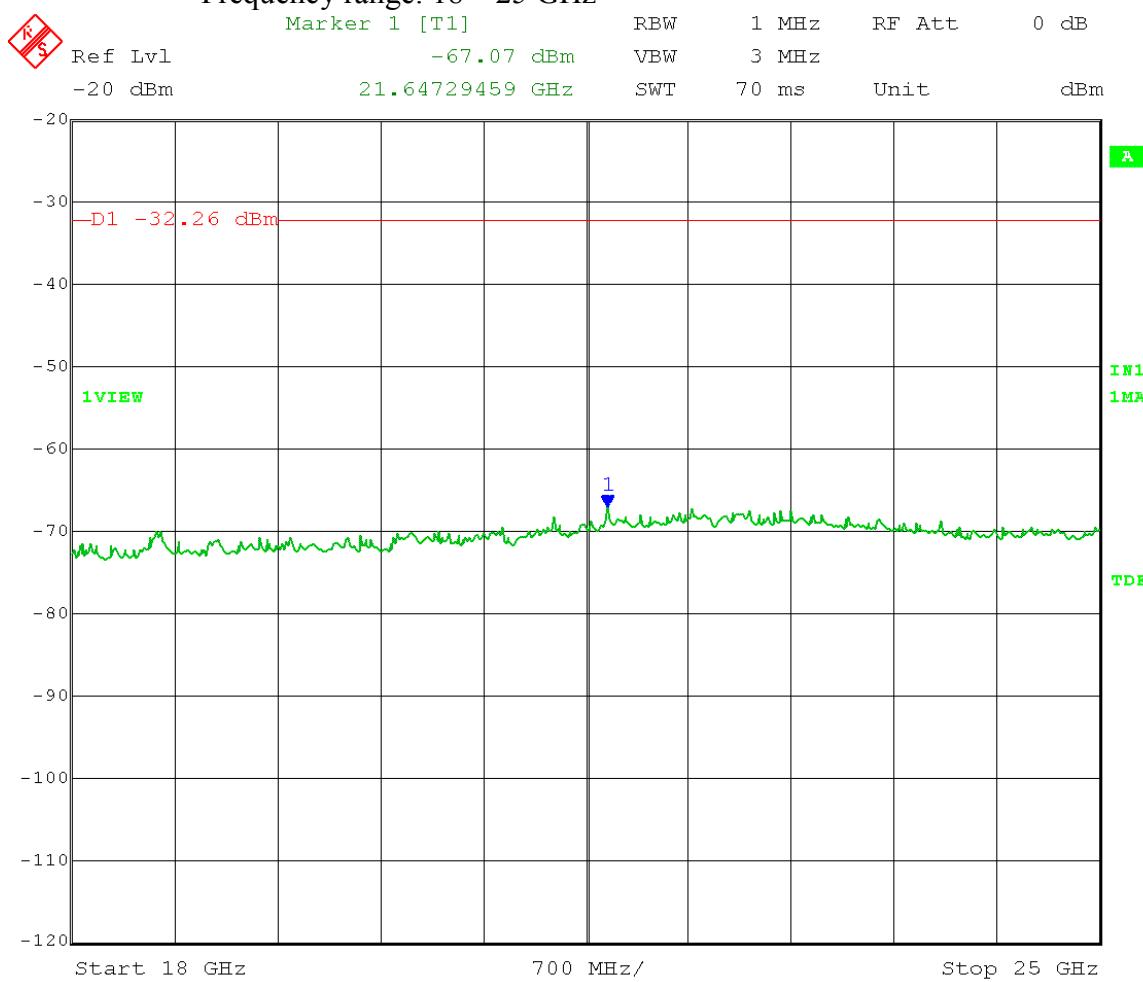
Output port: 1 OFDM MCS15

Peak limit = 74 dB μ V/m at 3 meters

Conducted limit

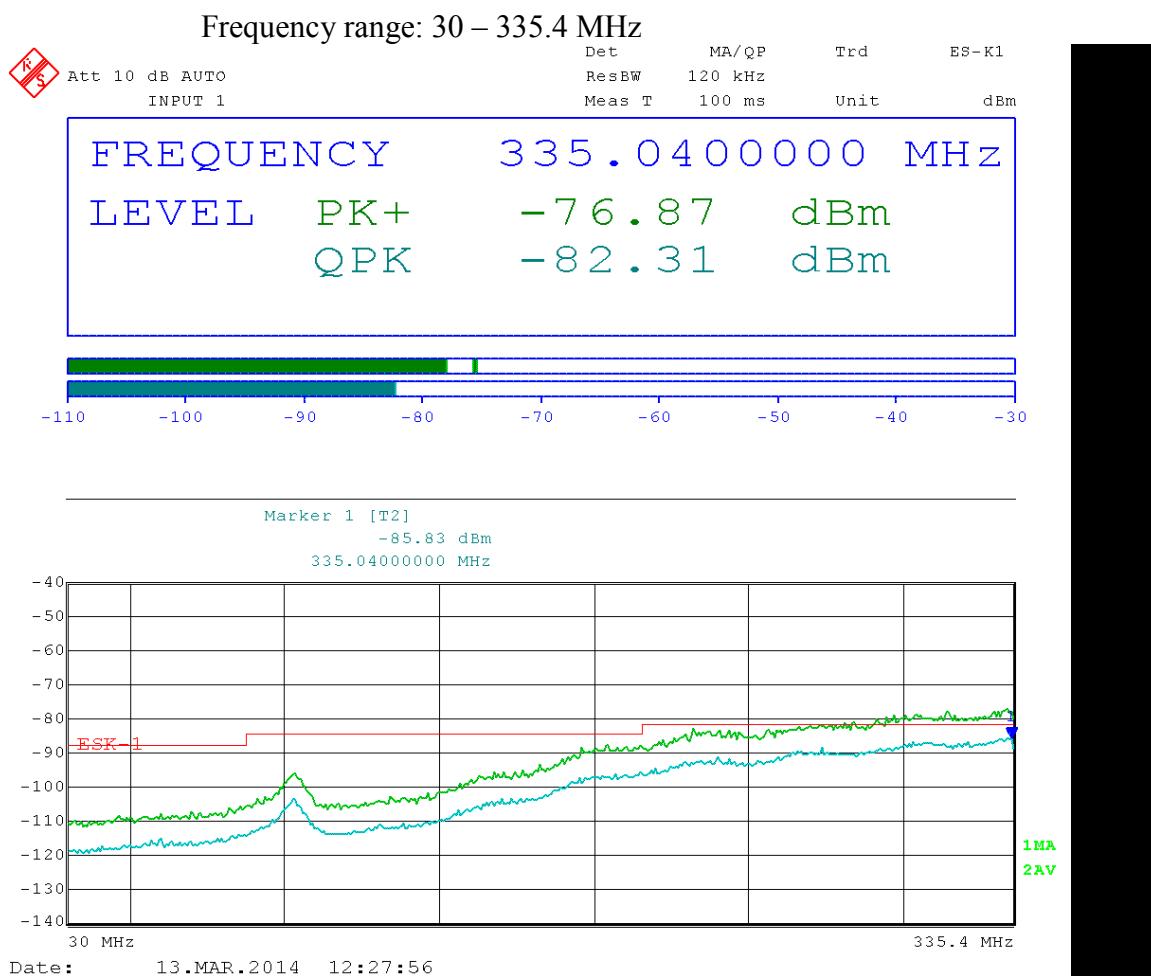
= $74 + 20\log(3 \text{ meters}) - 104.8 - 8 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -32.26 dBm

Frequency range: 18 – 25 GHz

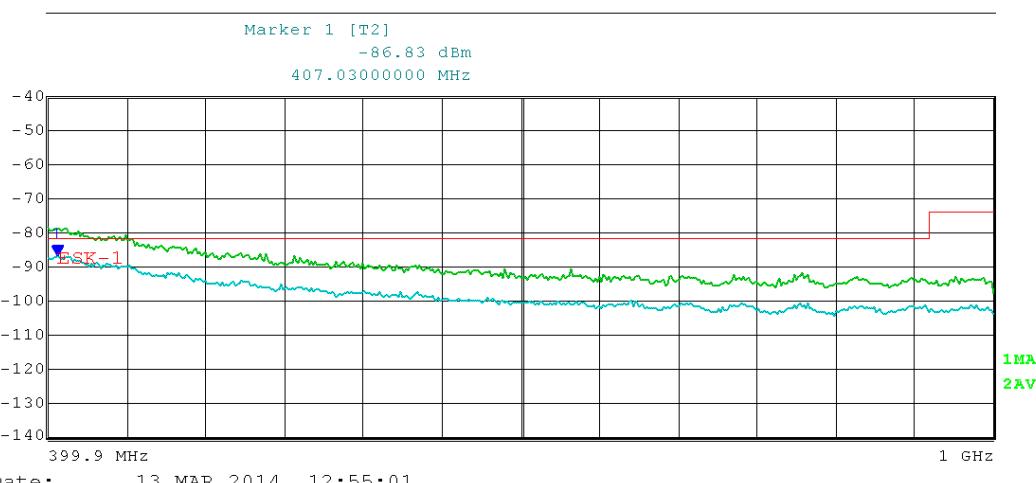
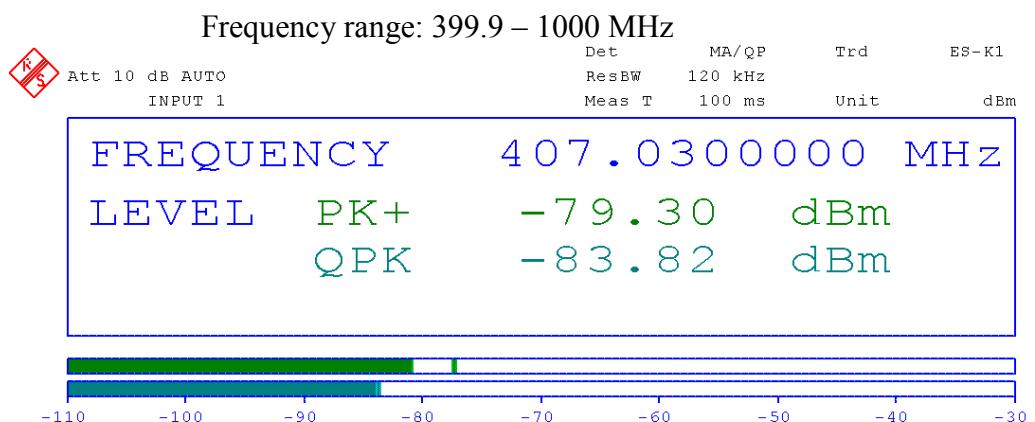


Date: 7.MAR.2014 15:33:02

Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2412 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 11.5 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 20 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm

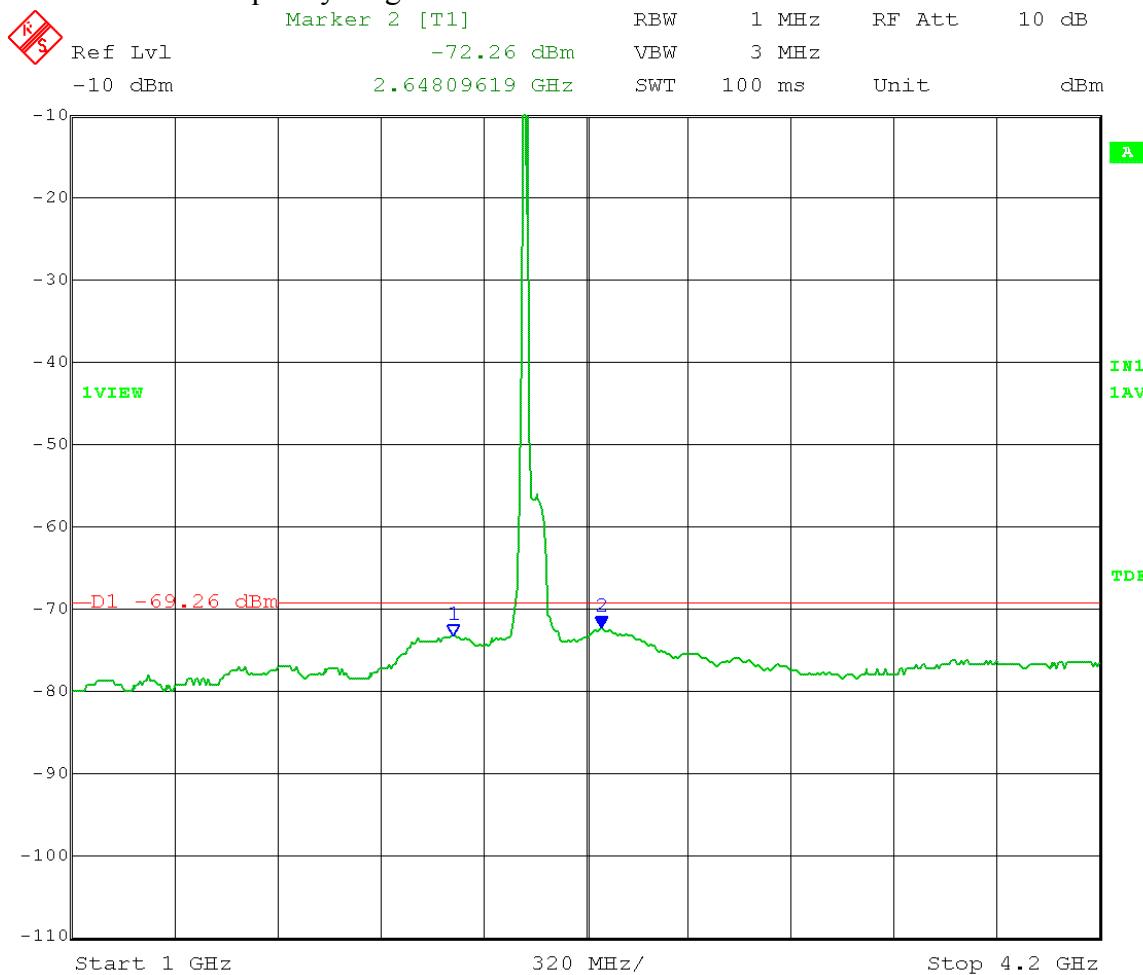


Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2412 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 11.5 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 20 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold **Low Channel Transmit = 2412 MHz**
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

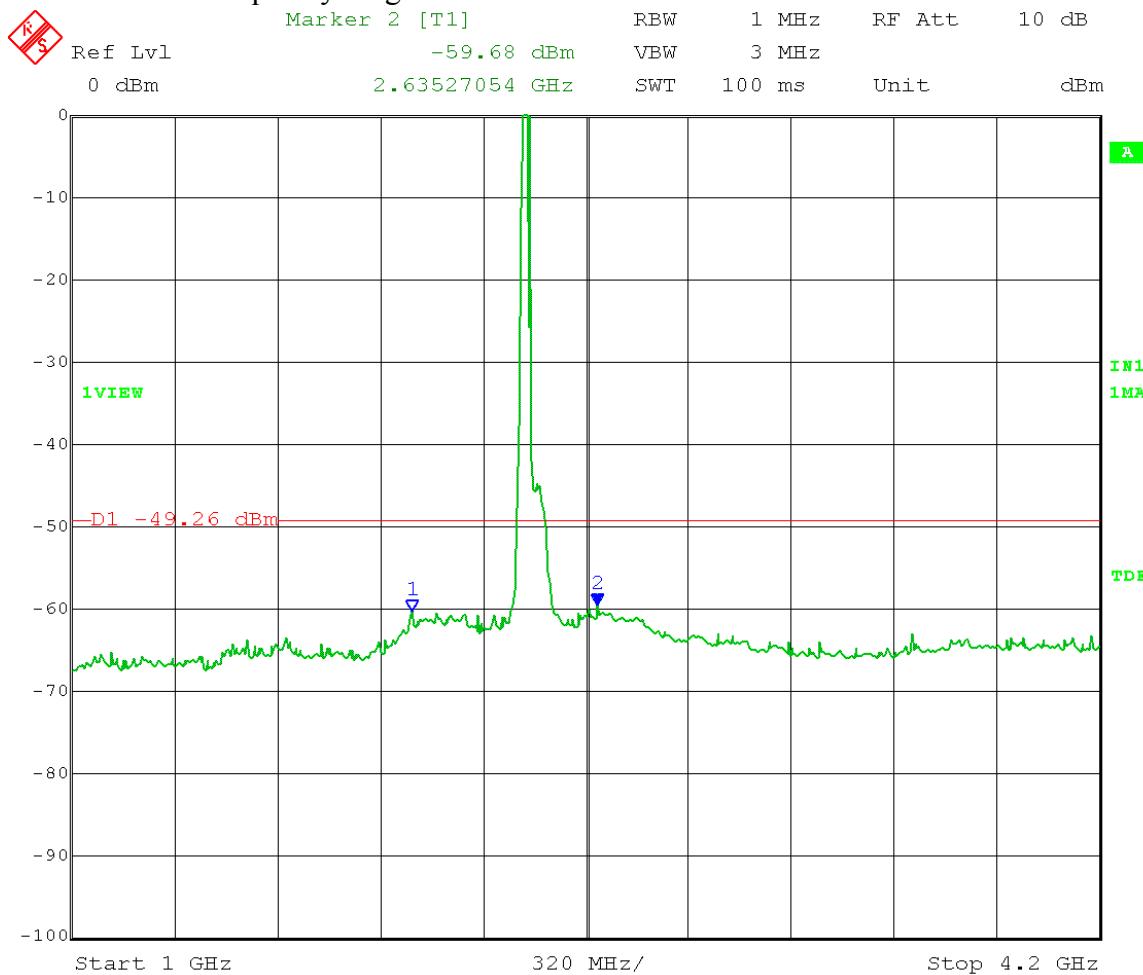
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:20:08

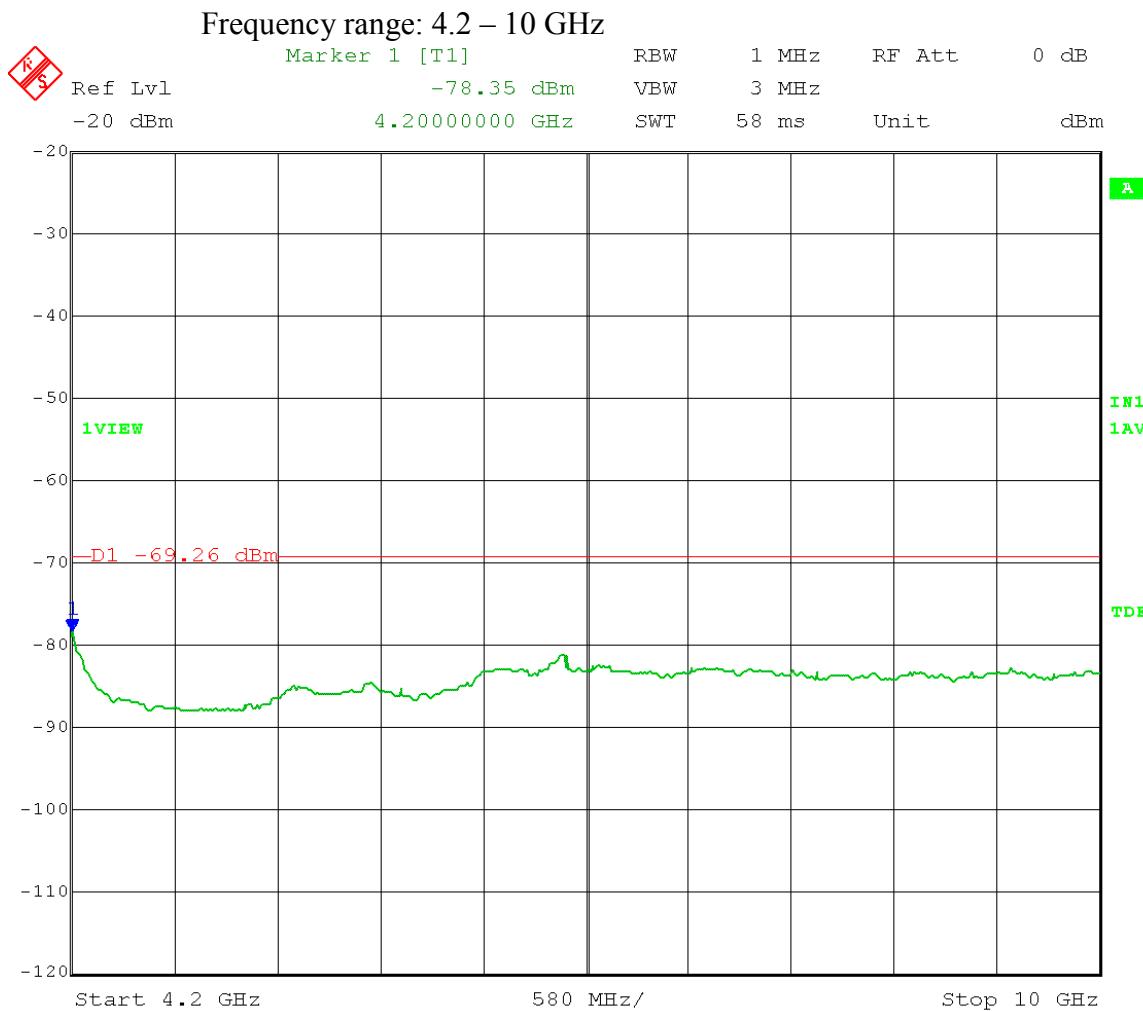
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:21:10

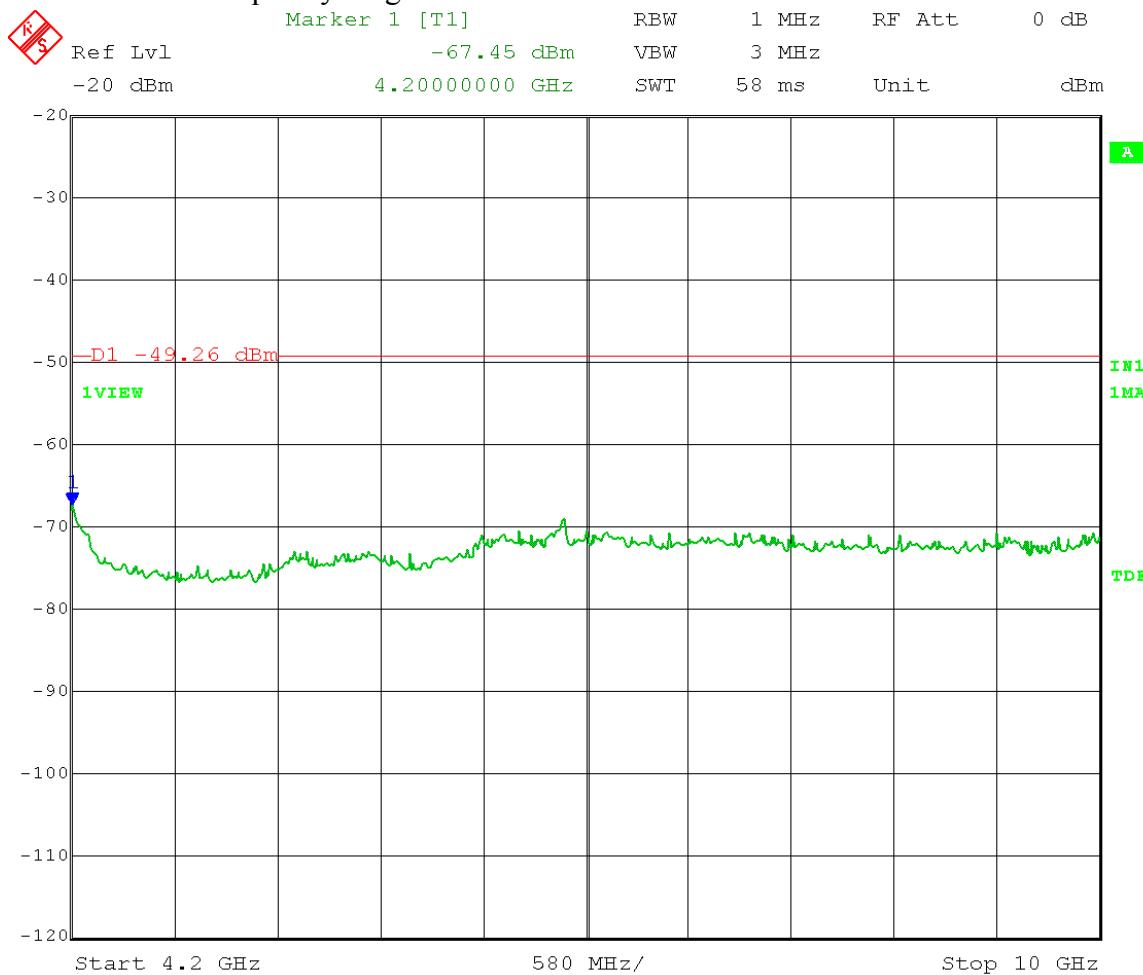
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 13.MAR.2014 15:19:30

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

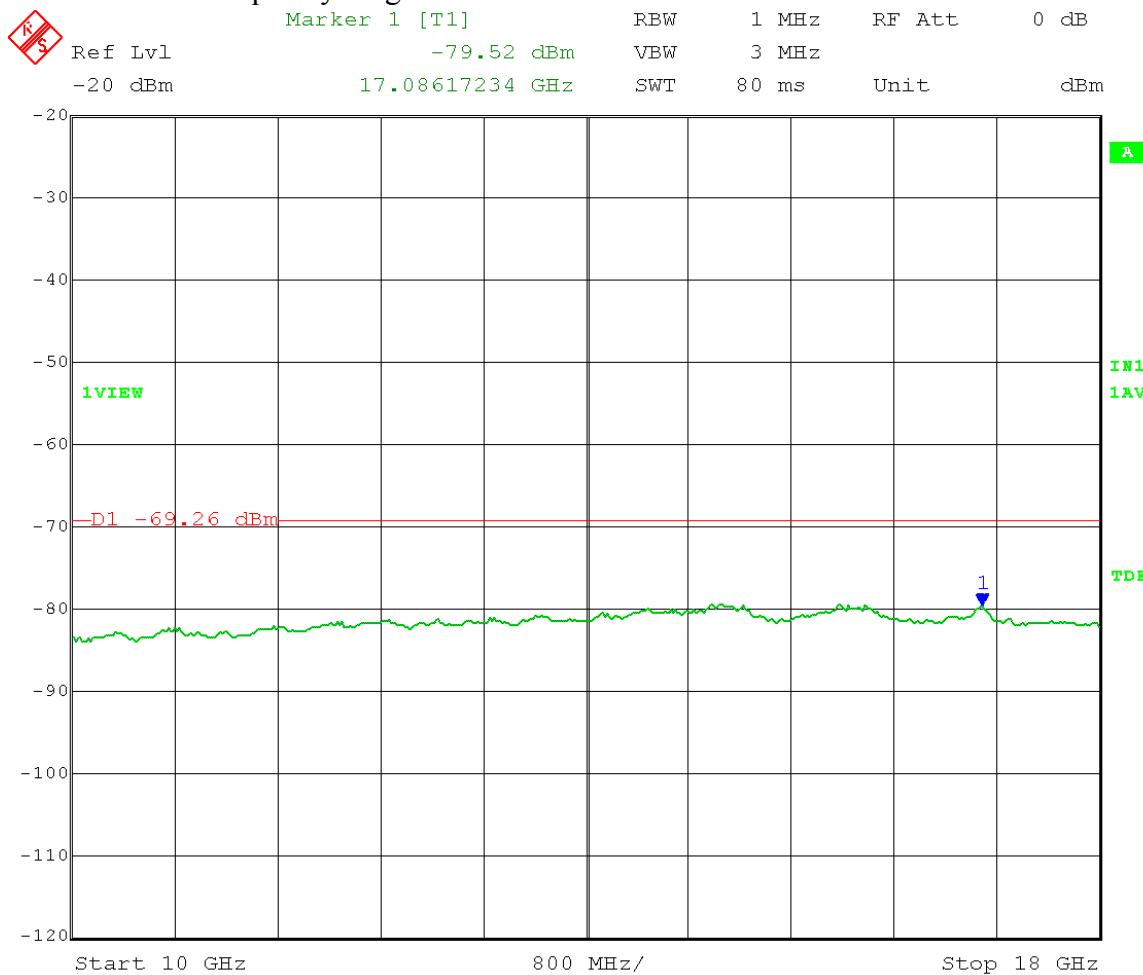
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:20:36

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

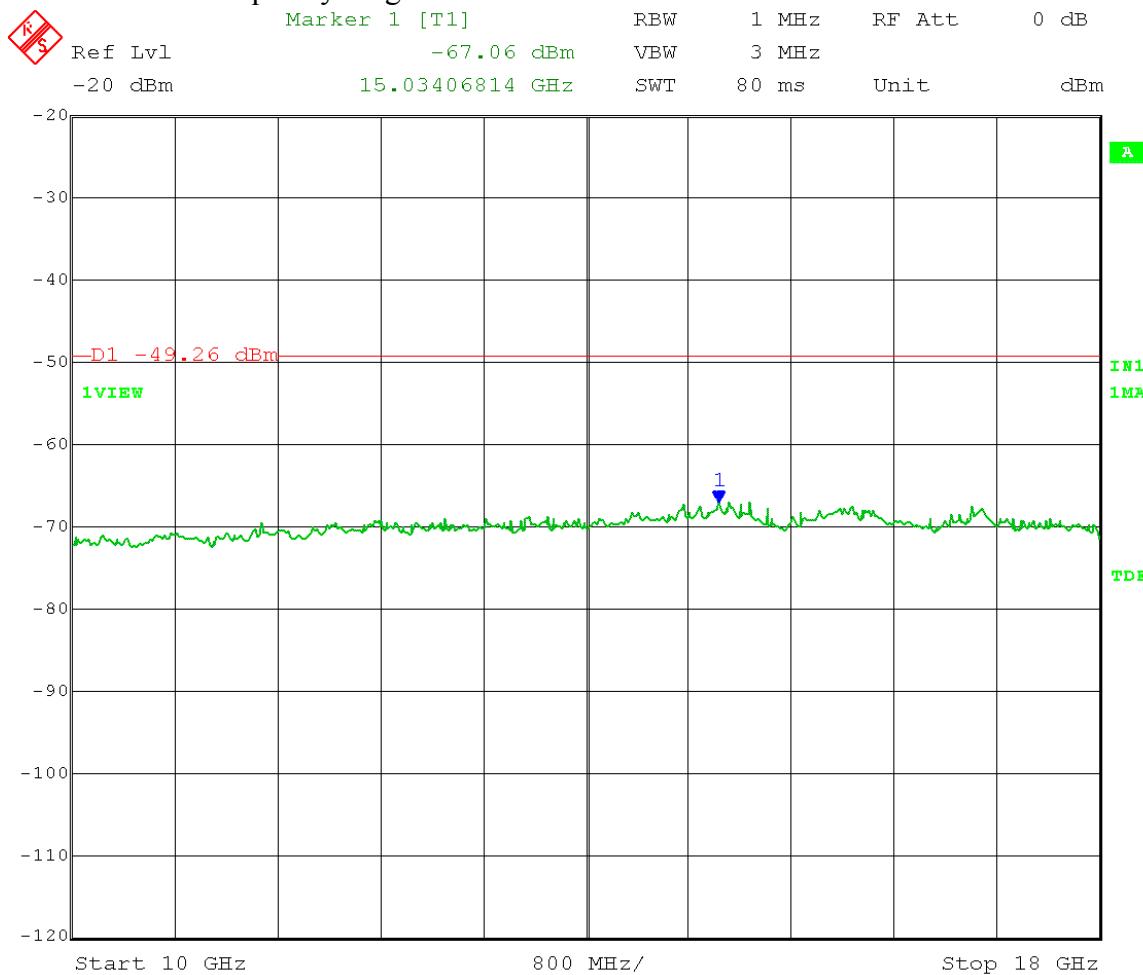
Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:03:35

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:04:54

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



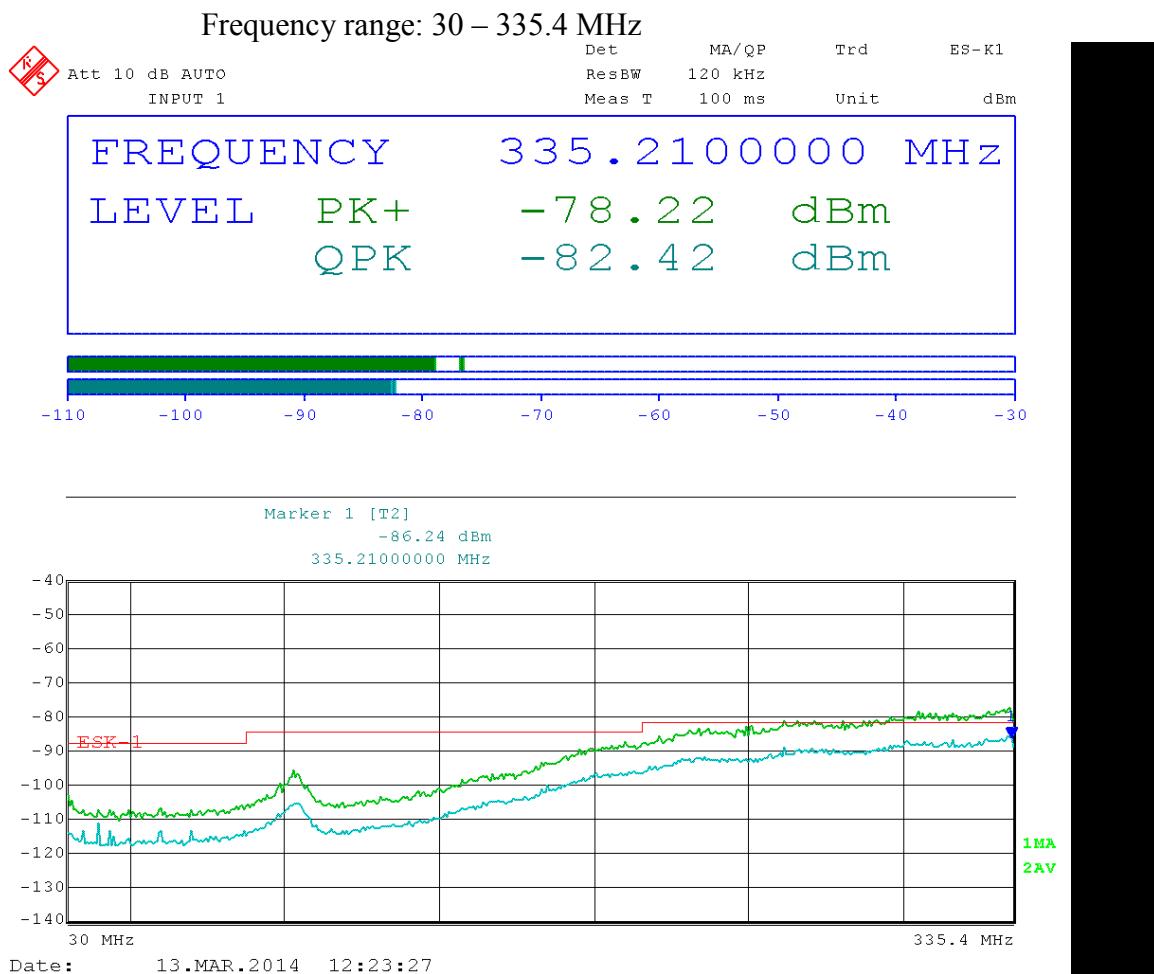
Date: 14.MAR.2014 09:41:55

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2412 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

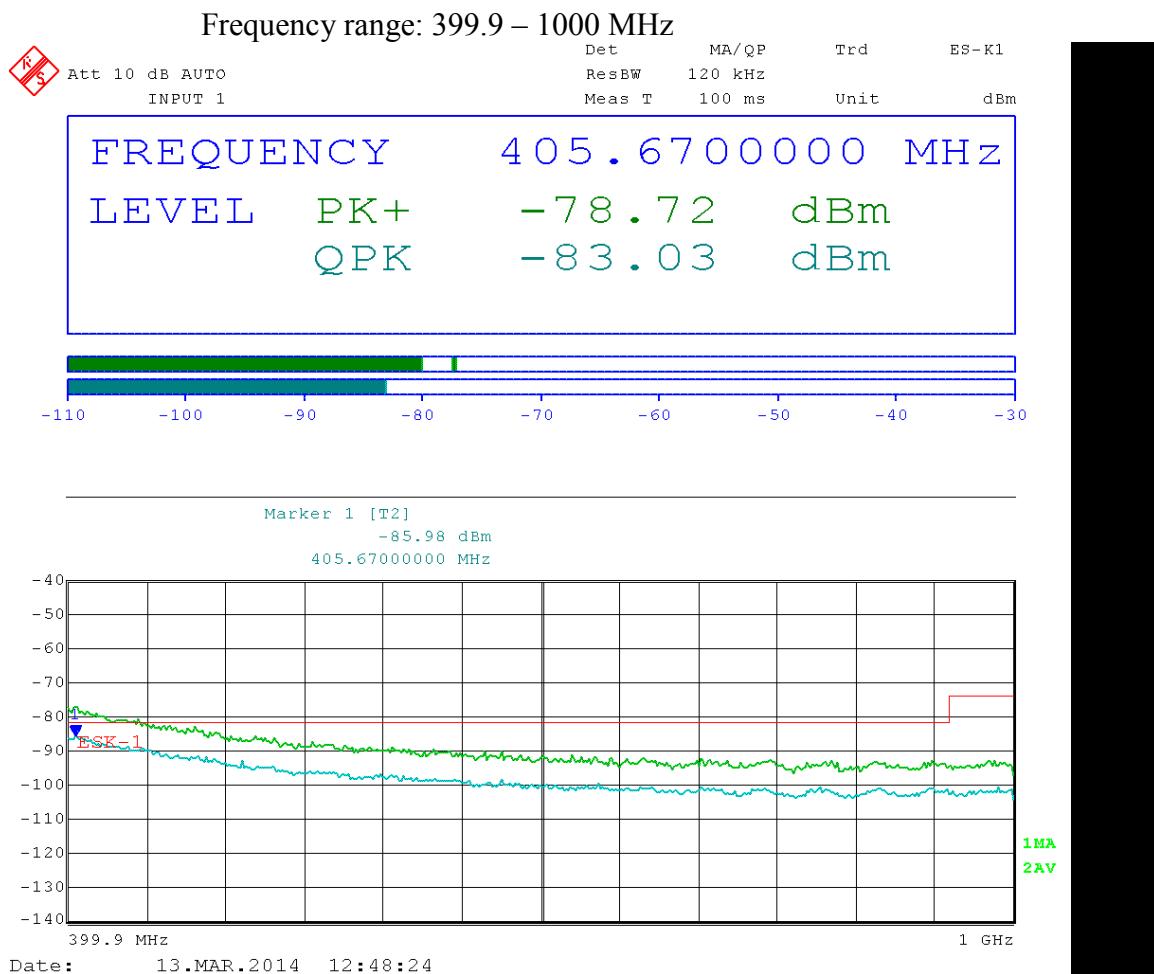


Date: 14.MAR.2014 09:43:06

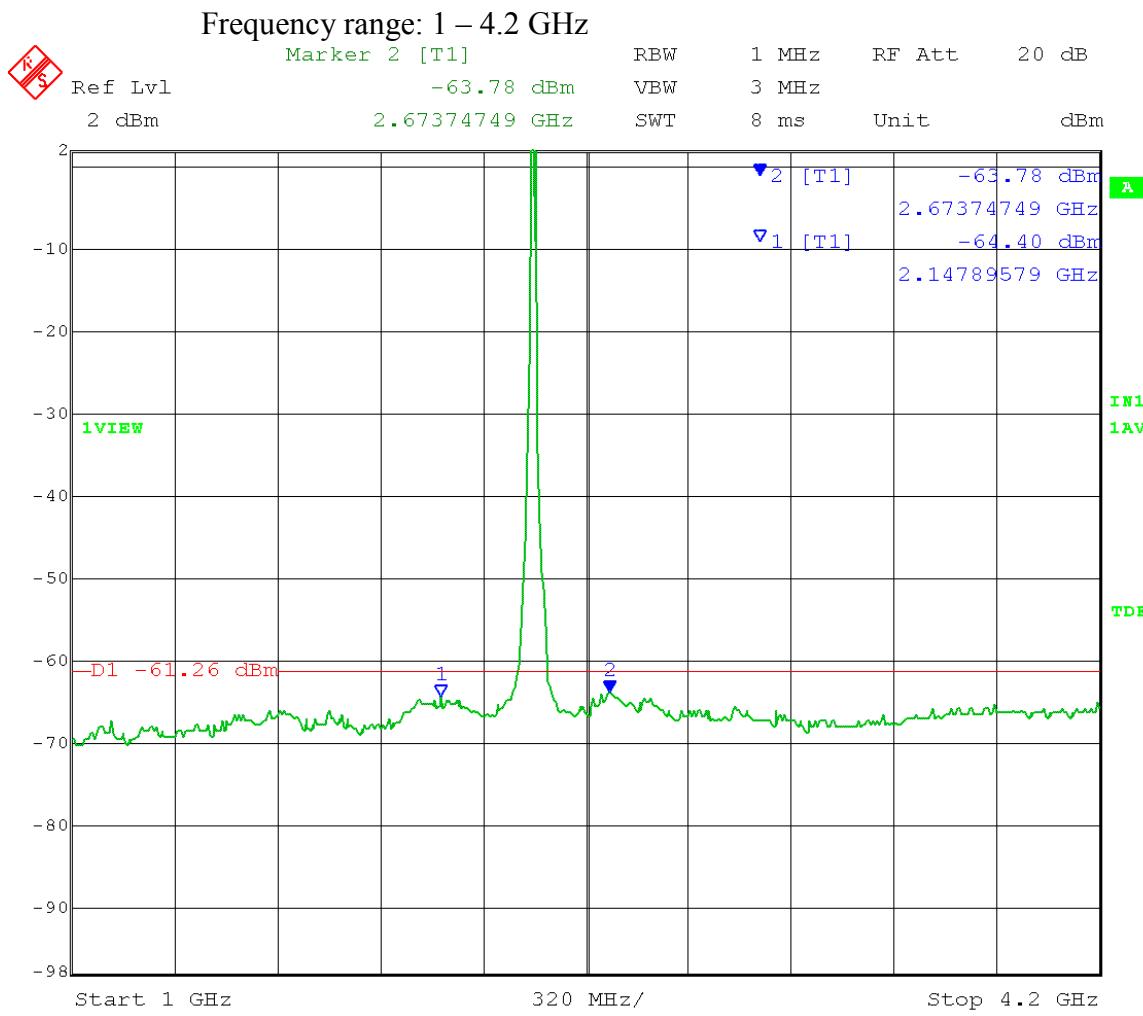
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment:
Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits: (calculated using worst case antenna gain of 25 dBi)
 30-88 MHz: = 40 dB μ V/m + 20log (3 meters) – 104.8 – 25 dBi antenna
 gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
 reflection = -87.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
 216-960 MHz (46 dB μ V/m): = -81.96 dBm
 960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits: (calculated using worst case antenna gain of 25 dBi)
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) -4.7 dB (maximum ground reflection) = -87.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
 216-960 MHz (46 dB μ V/m): = -81.96 dBm
 960-1000 MHz (54 dB μ V/m): = -73.96 dBm



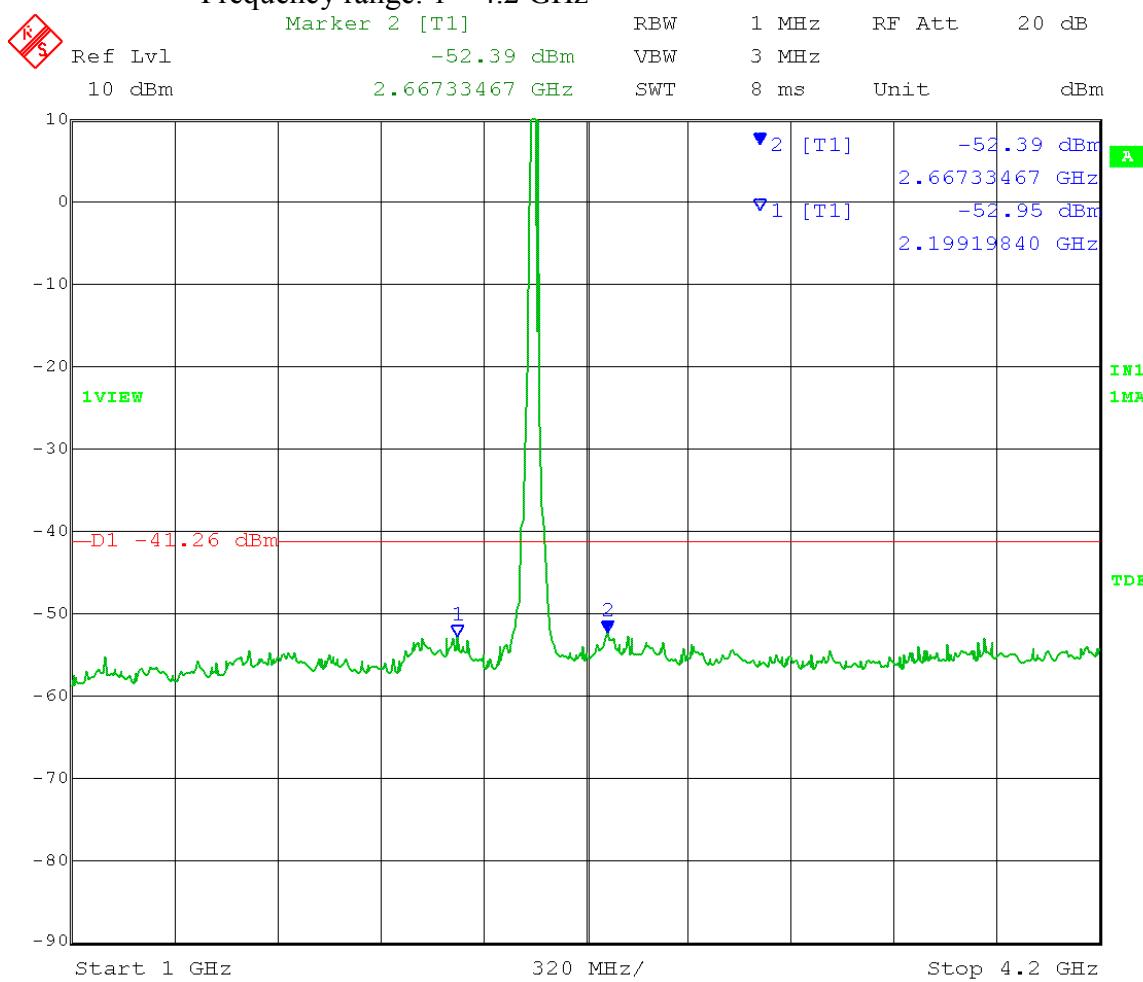
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 Antenna gain: 17 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -61.26 dBm



Date: 13.MAR.2014 13:55:47

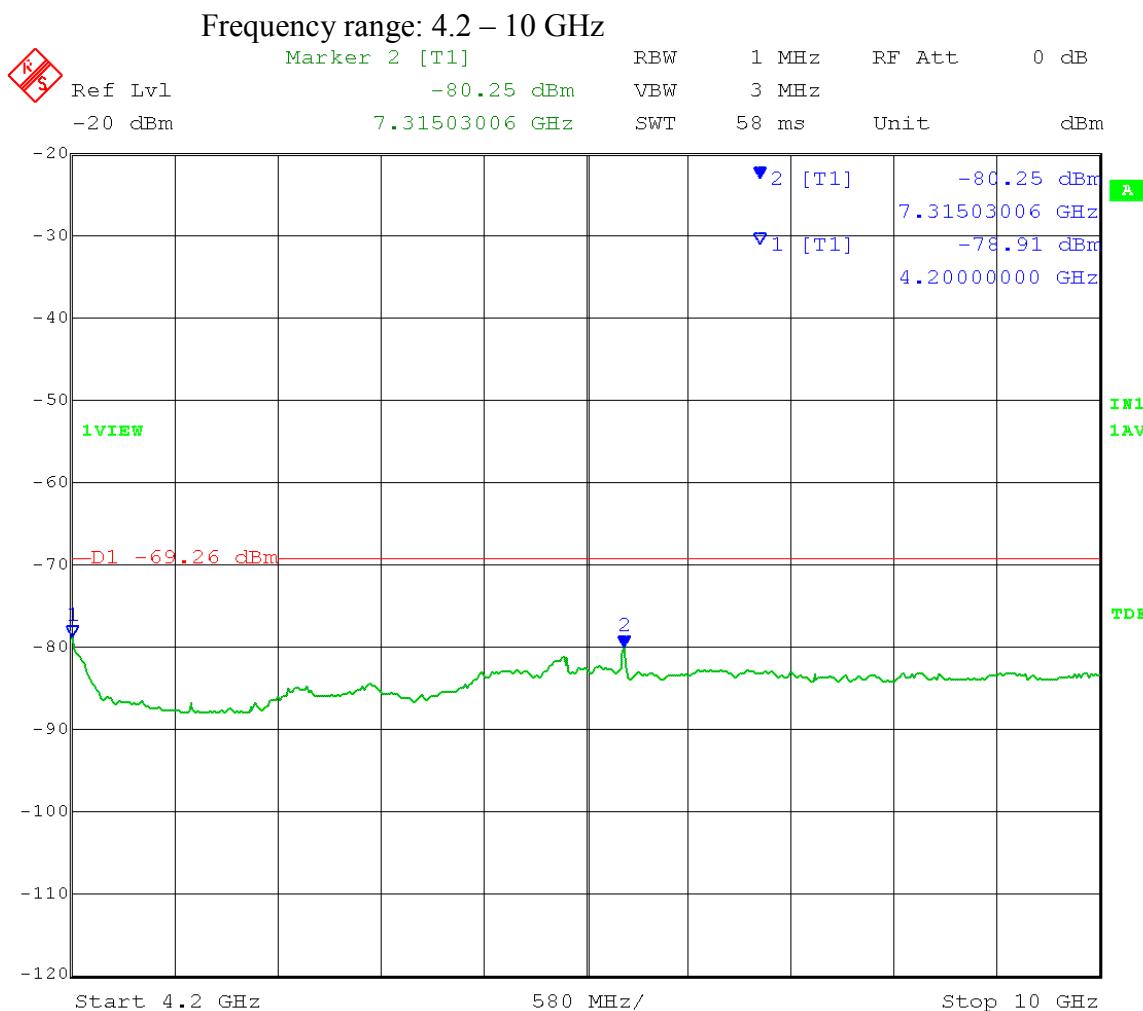
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 Antenna gain: 17 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -41.26 dBm

Frequency range: 1 – 4.2 GHz



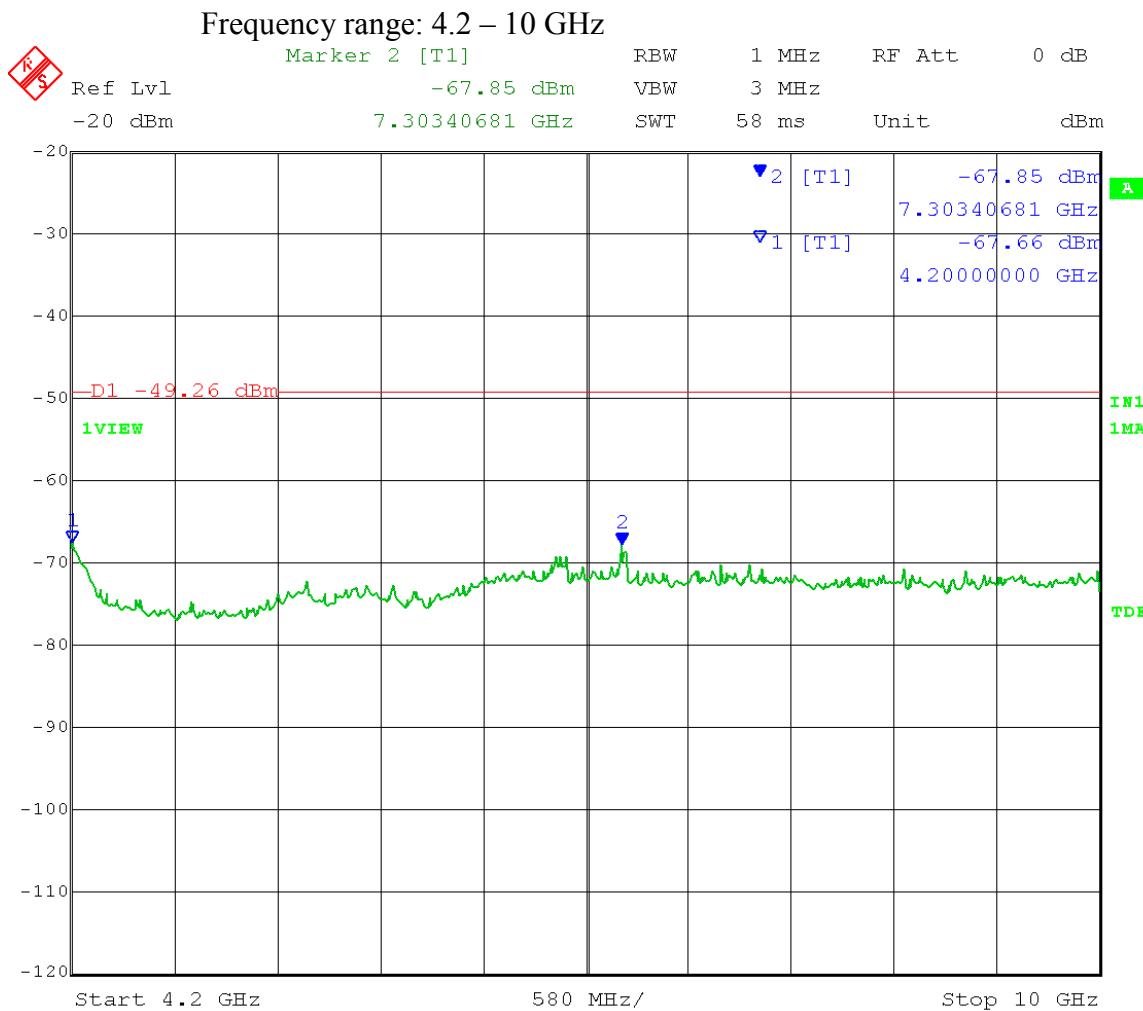
Date: 13.MAR.2014 13:54:17

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



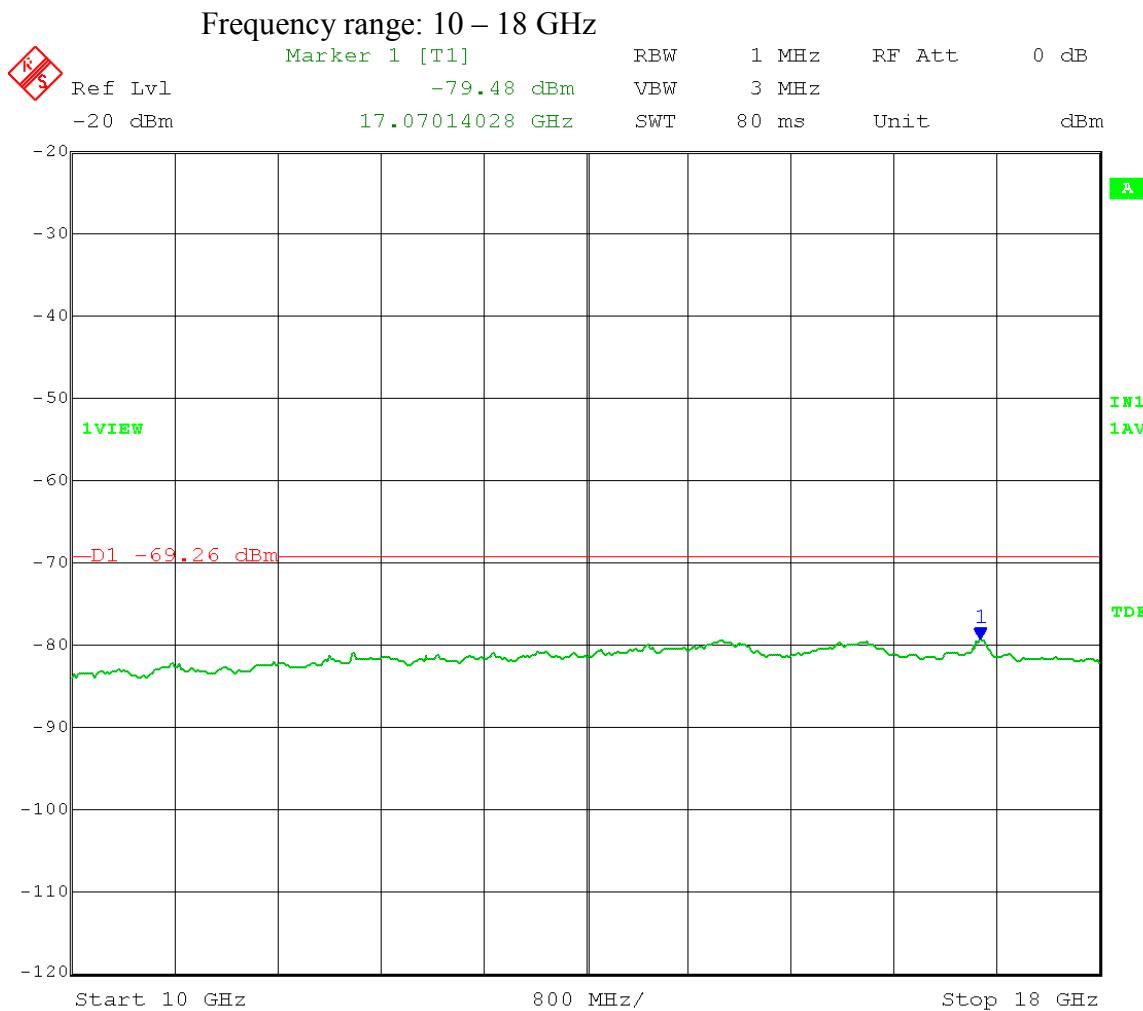
Date: 13.MAR.2014 15:09:02

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm



Date: 13.MAR.2014 15:08:13

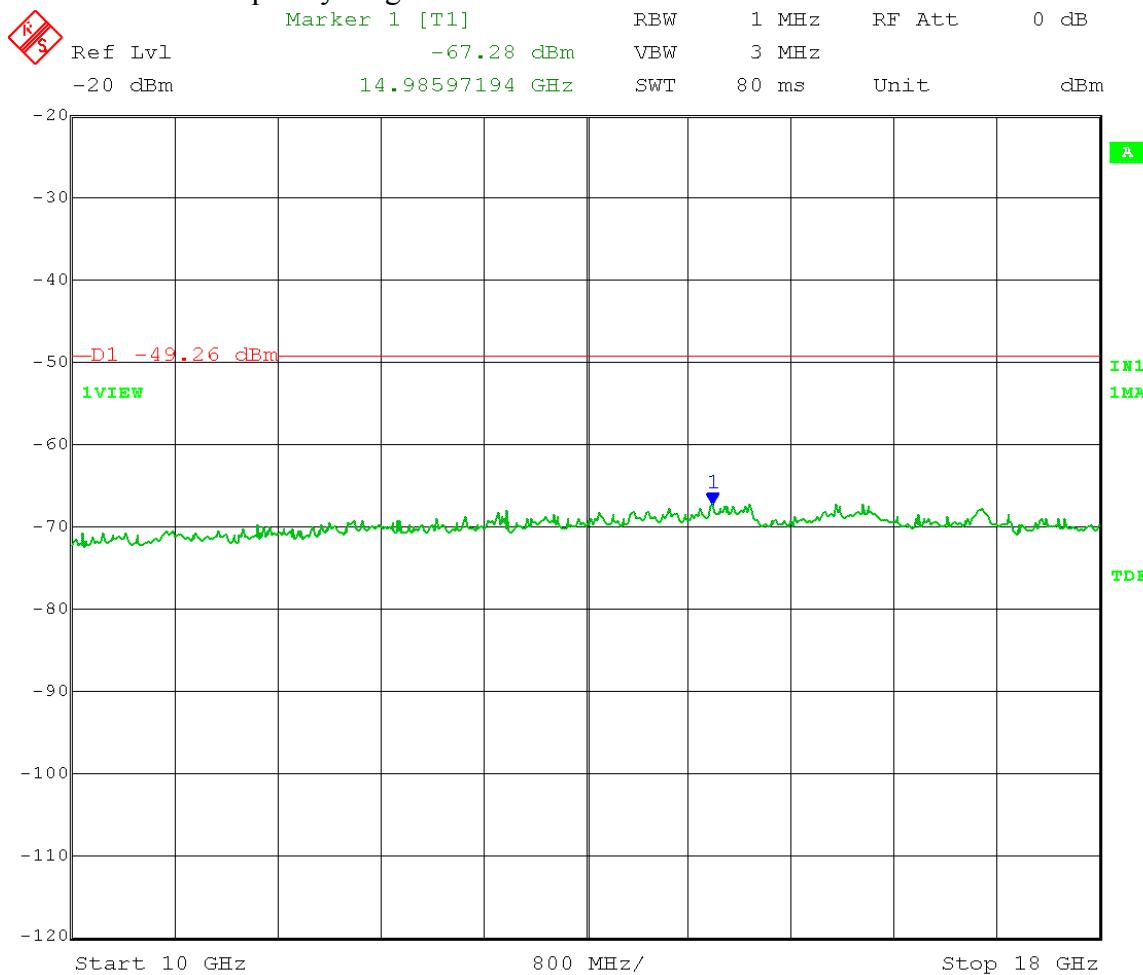
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 14.MAR.2014 08:46:58

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 08:48:29

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



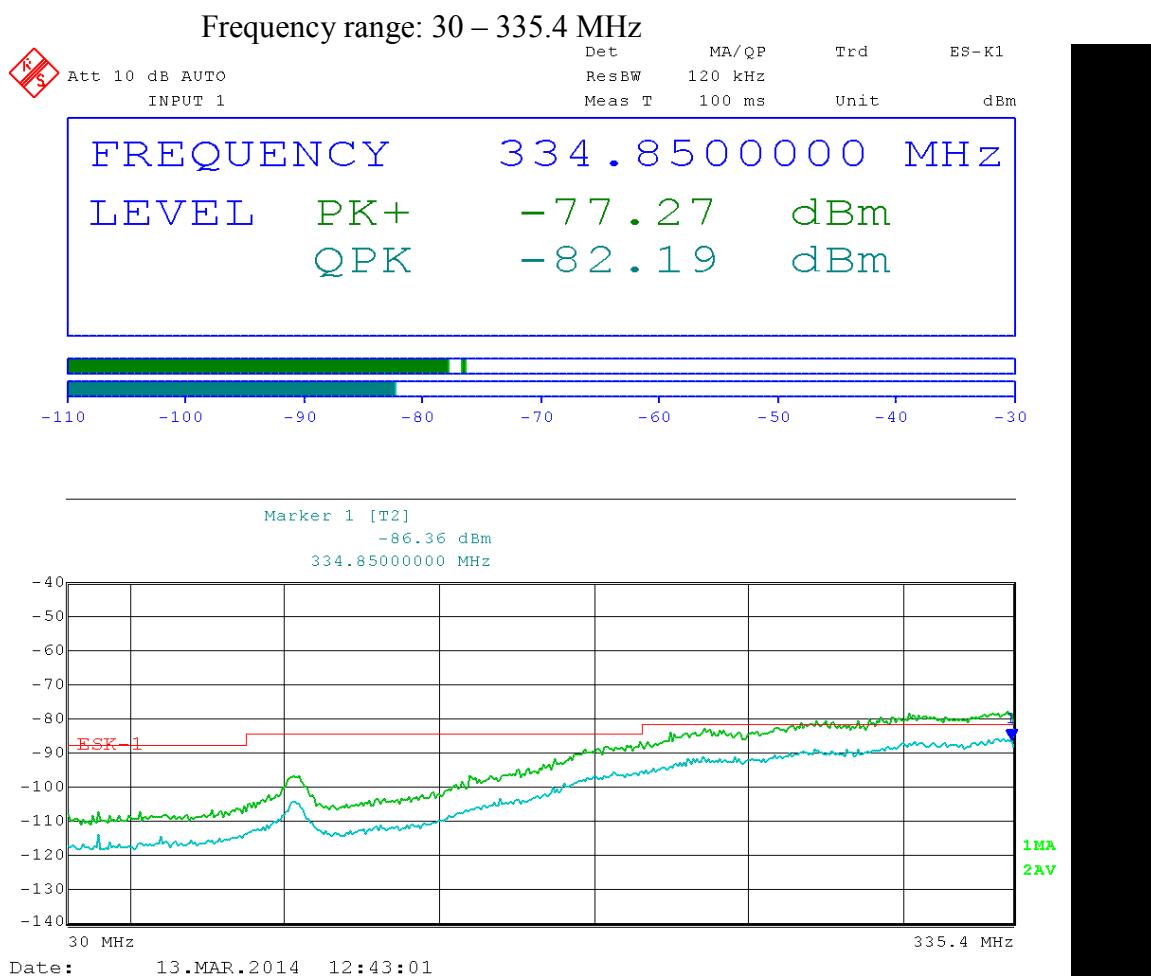
Date: 14.MAR.2014 09:34:13

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point operation
 Output Power Setting 20.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

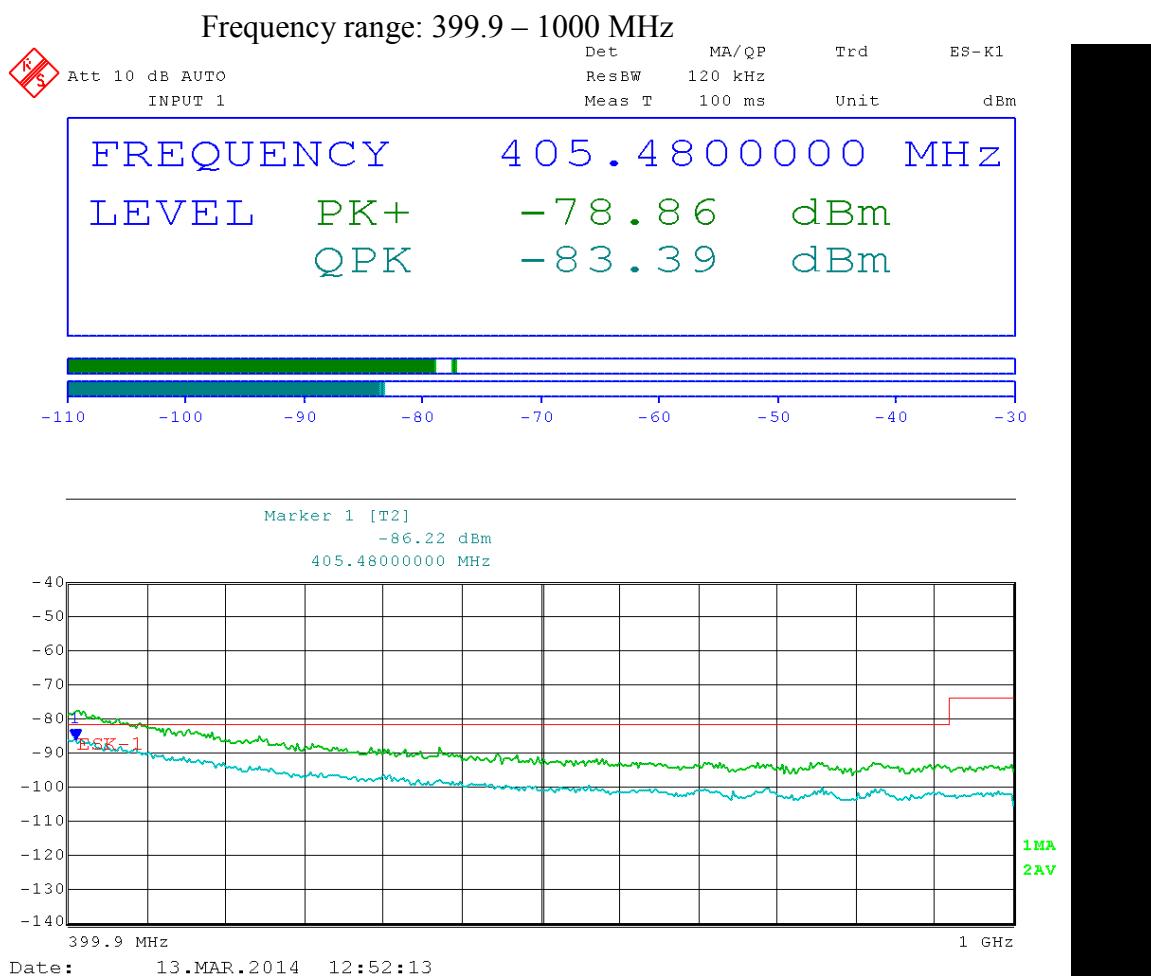


Date: 14.MAR.2014 09:35:30

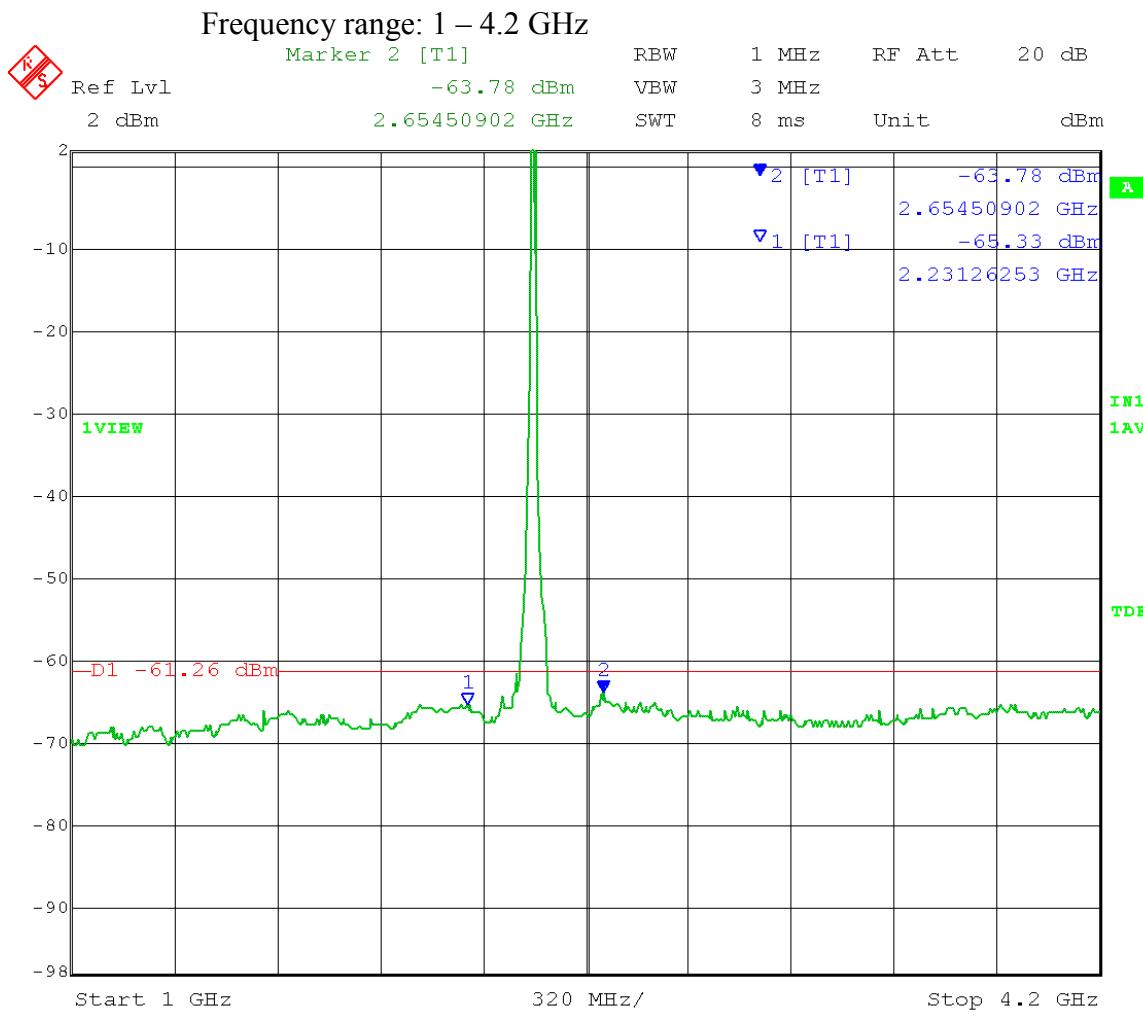
Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 18 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 20 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 18 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 20 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



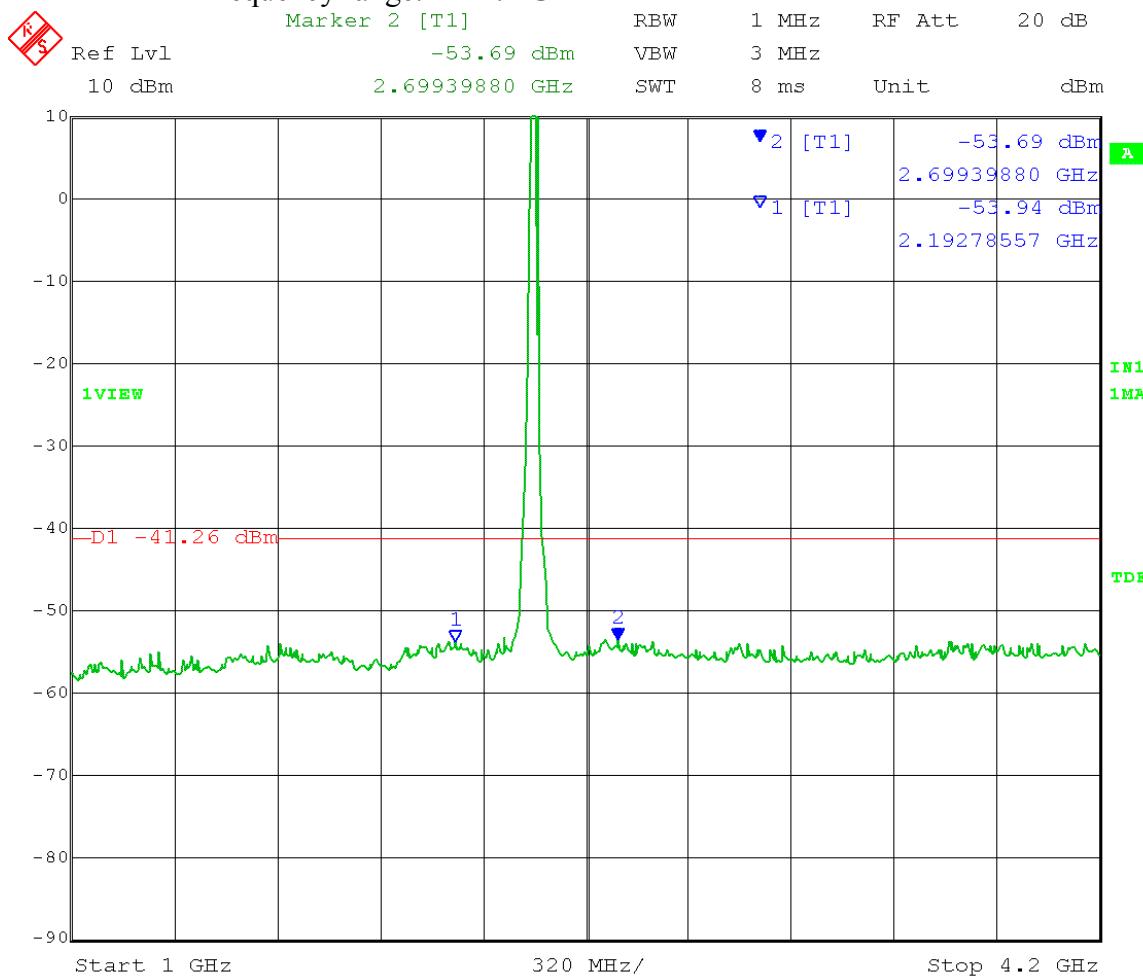
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 Antenna gain: 17 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -61.26 dBm



Date: 13.MAR.2014 13:58:10

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 Antenna gain: 17 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 17 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -41.26 dBm

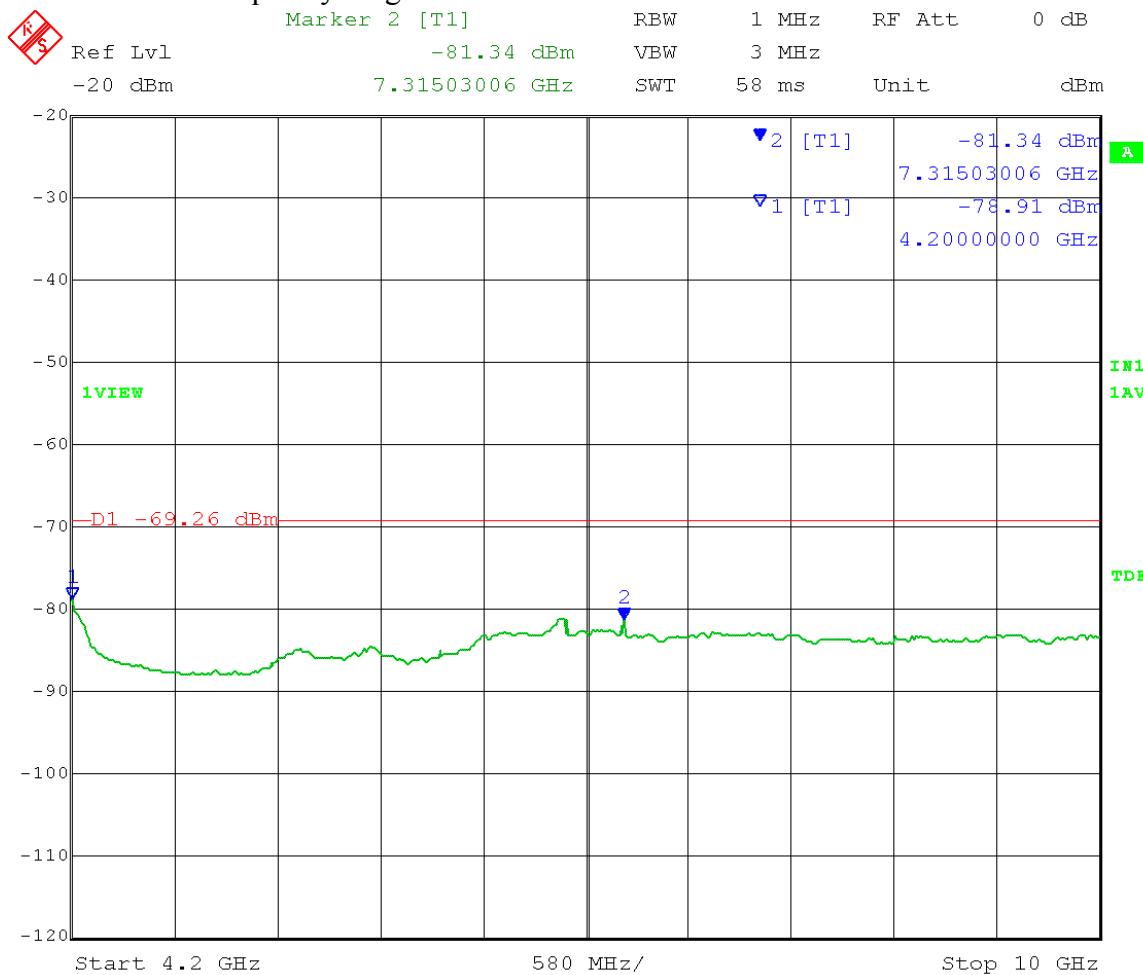
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 13:59:20

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

Frequency range: 4.2 – 10 GHz



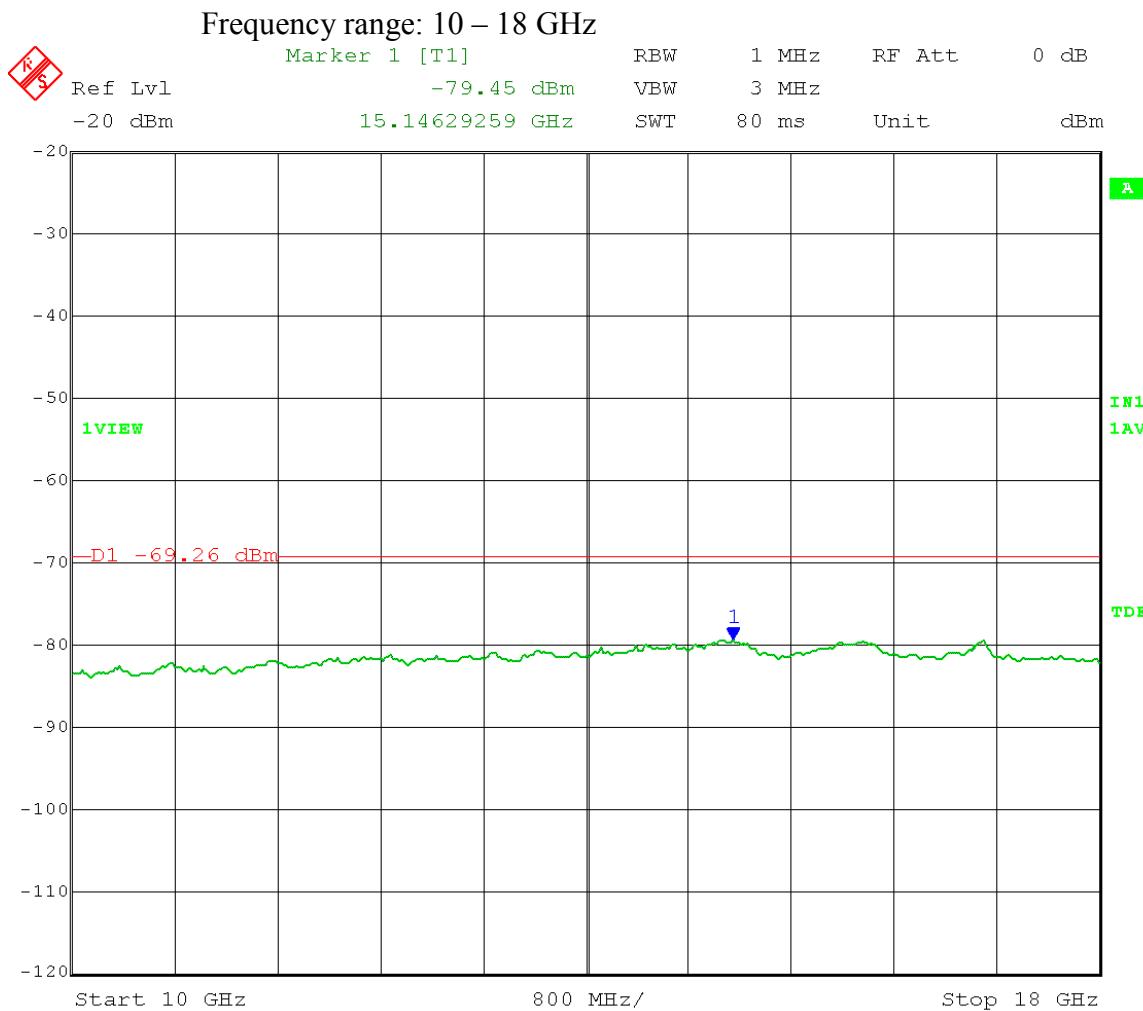
Date: 13.MAR.2014 15:14:44

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm



Date: 13.MAR.2014 15:15:40

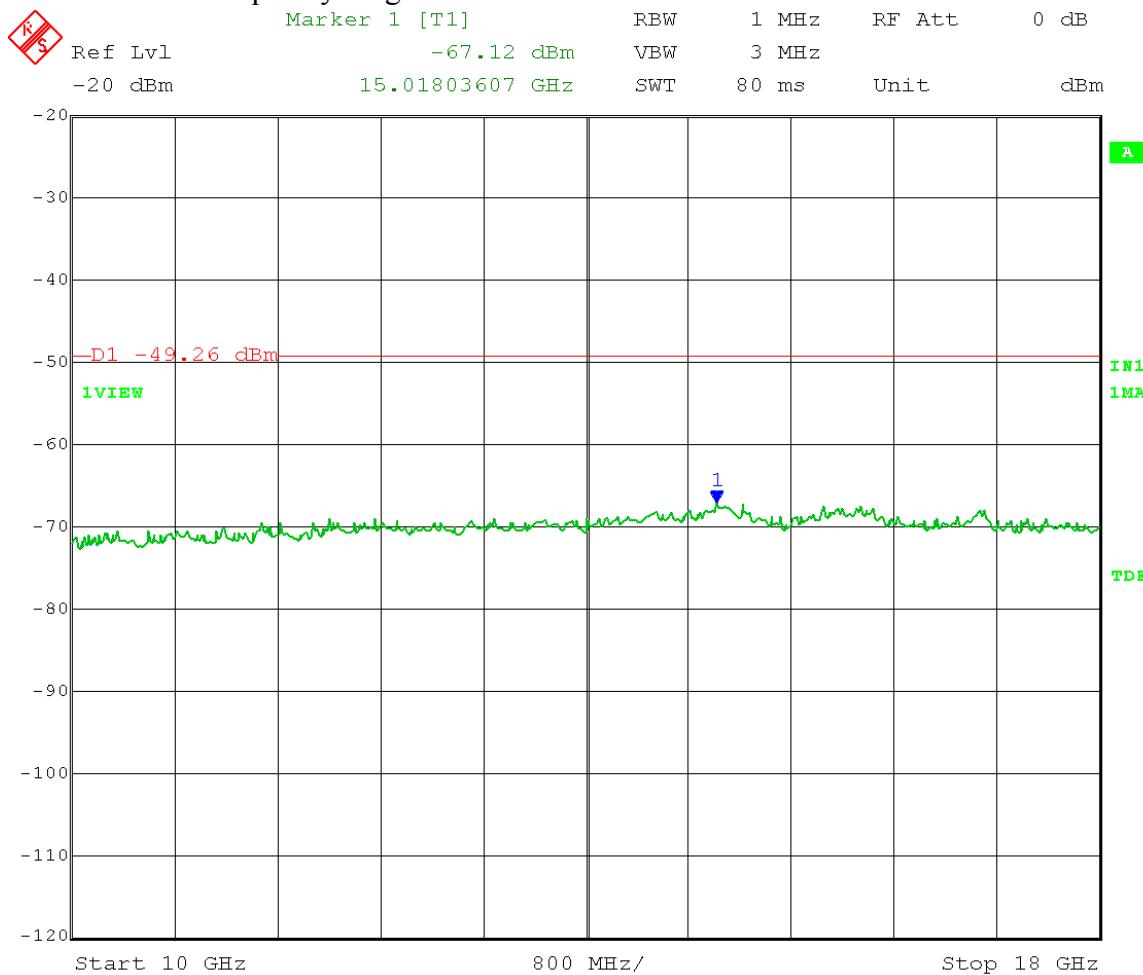
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 14.MAR.2014 08:52:22

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 08:51:32

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



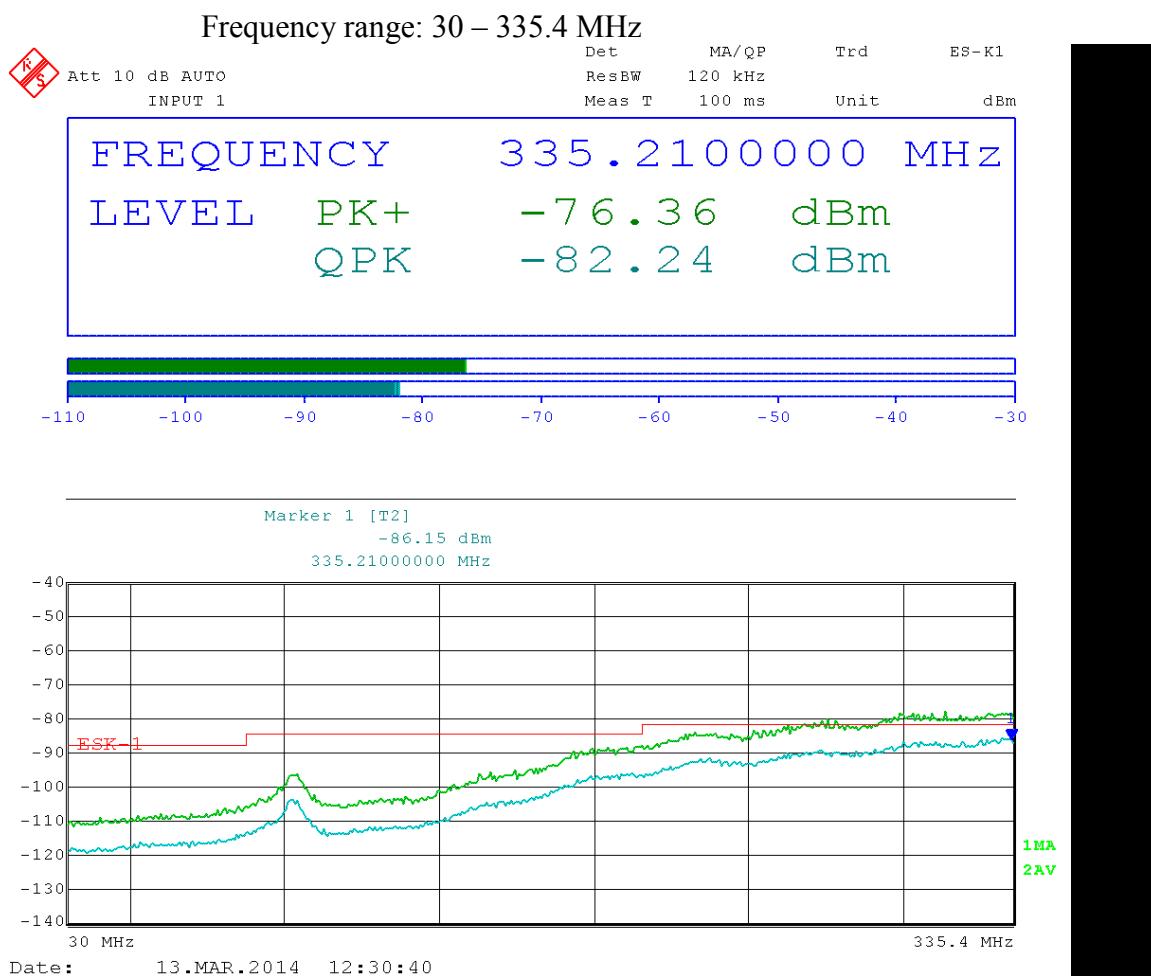
Date: 14.MAR.2014 09:38:52

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Multipoint operation
 Output Power Setting 18 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

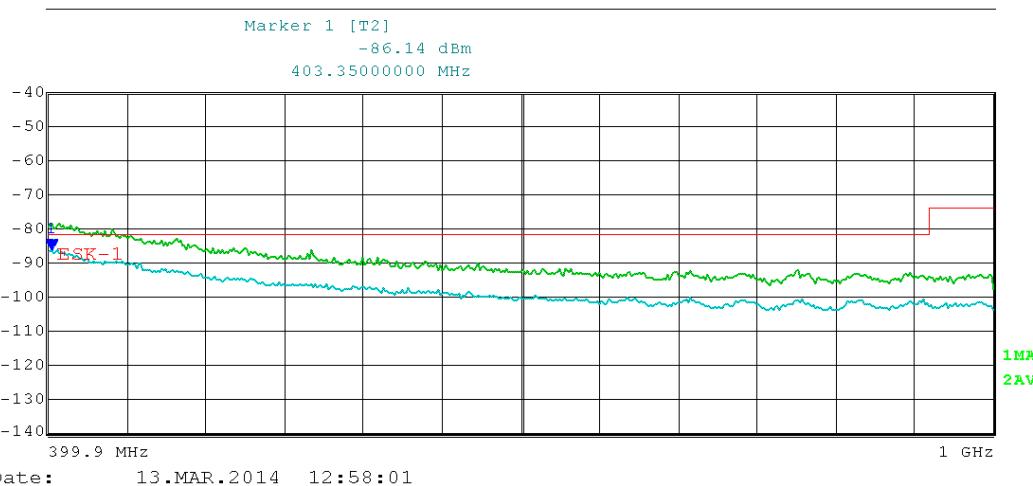
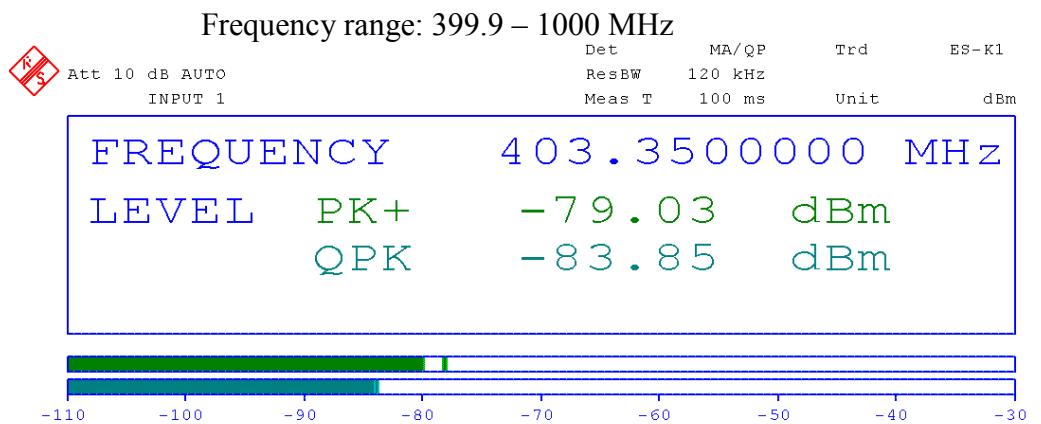


Date: 14.MAR.2014 09:37:56

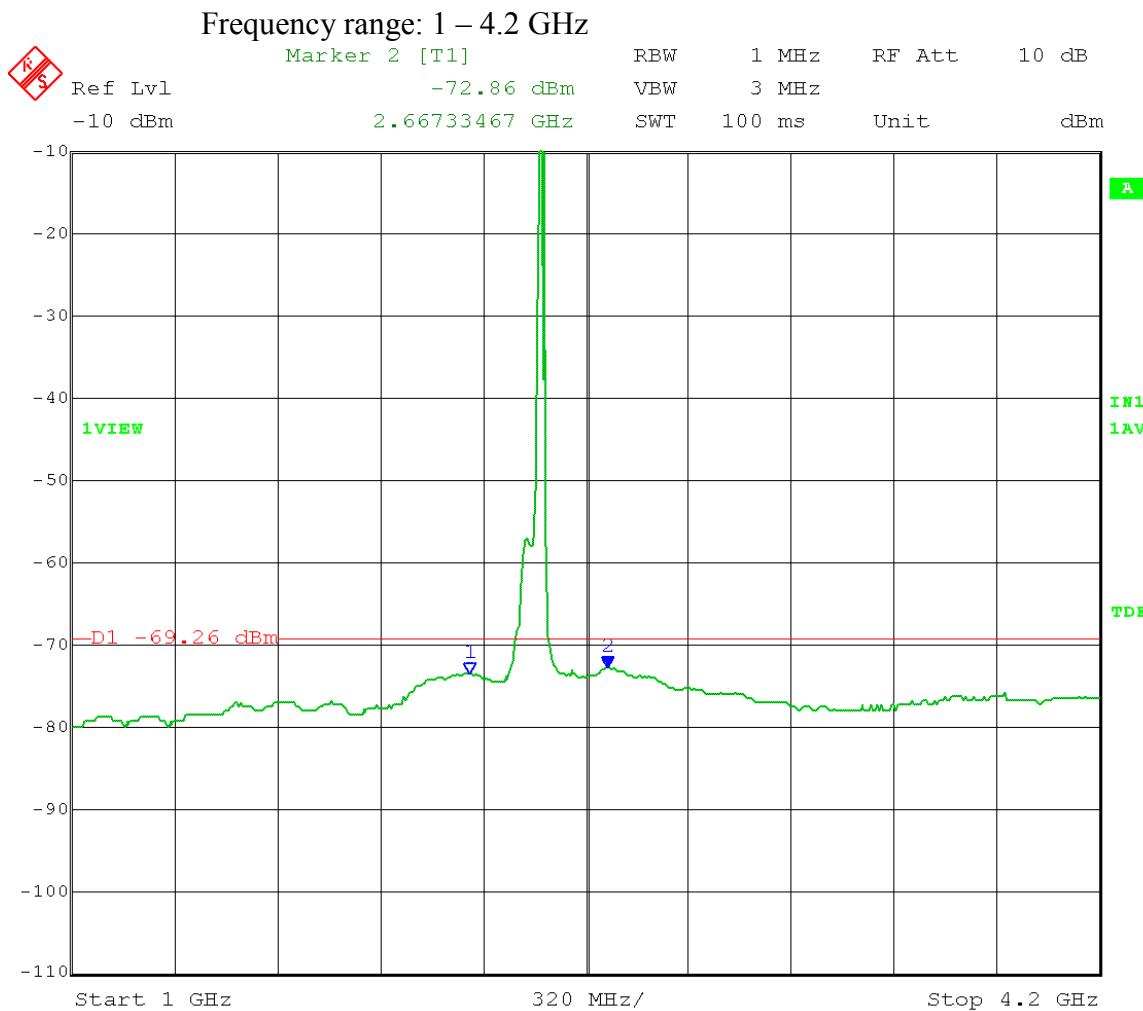
Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
High Channel Transmit = 2462 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 10 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 20 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment:
High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Conducted limits: (calculated using worst case antenna gain of 25 dBi)
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) -4.7 dB (maximum ground reflection) = -87.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
 216-960 MHz (46 dB μ V/m): = -81.96 dBm
 960-1000 MHz (54 dB μ V/m): = -73.96 dBm



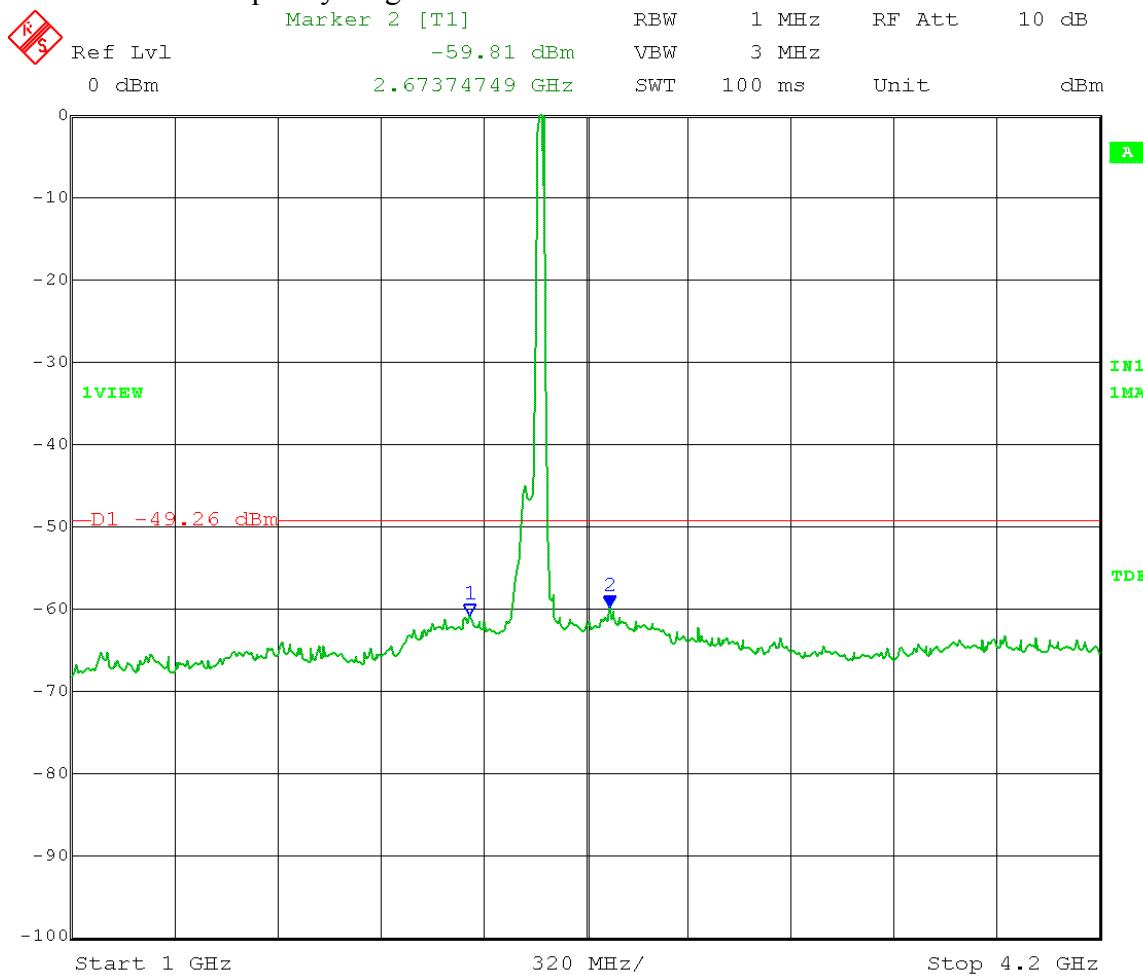
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 13.MAR.2014 14:24:08

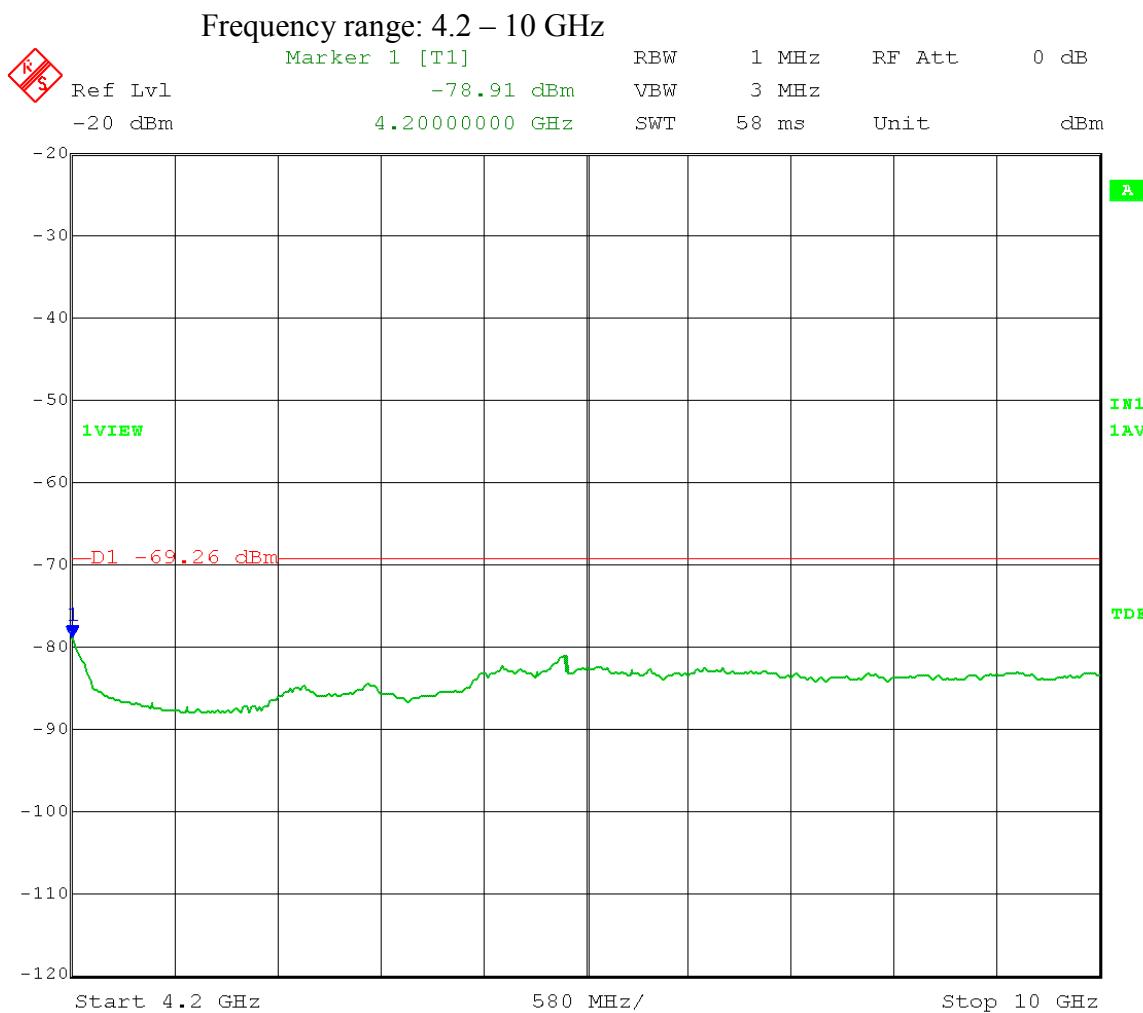
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:27:25

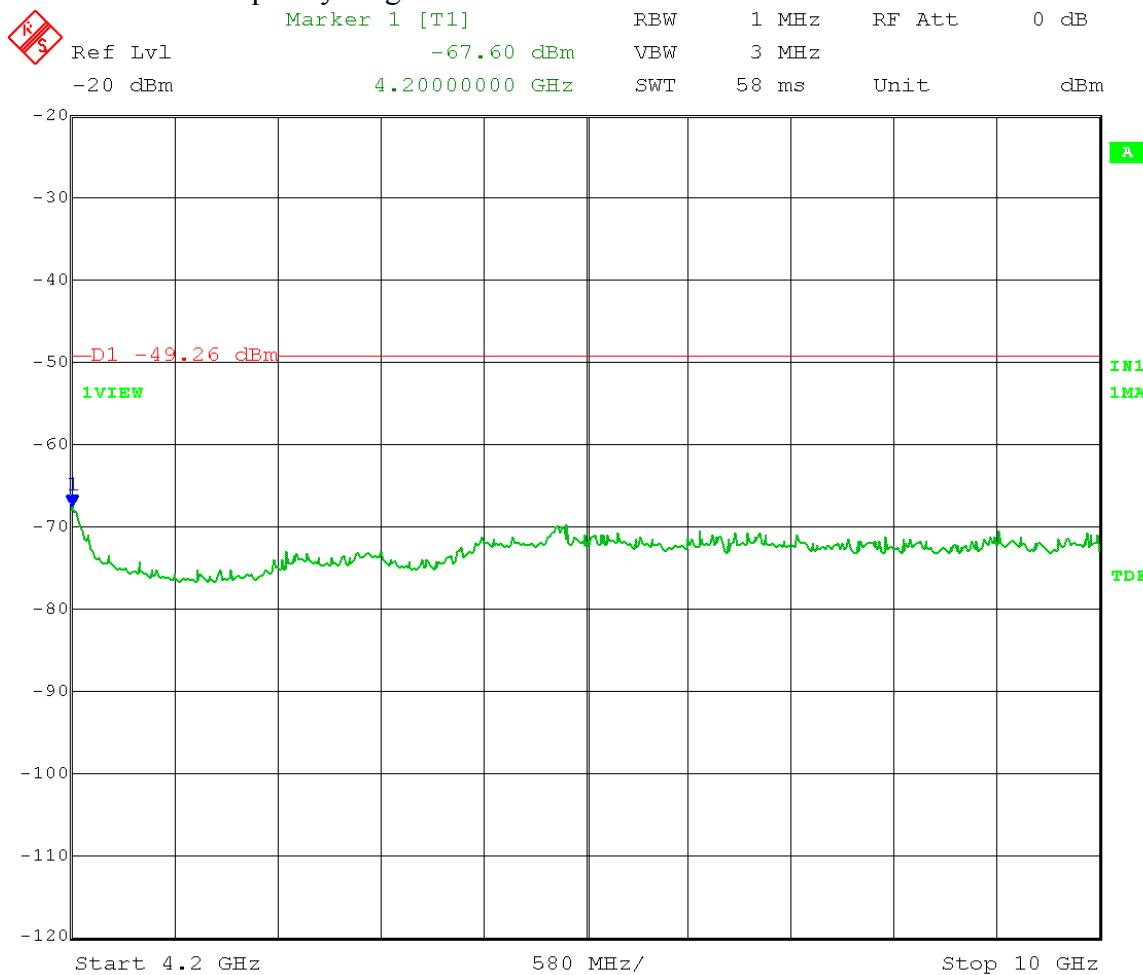
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 13.MAR.2014 15:24:15

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

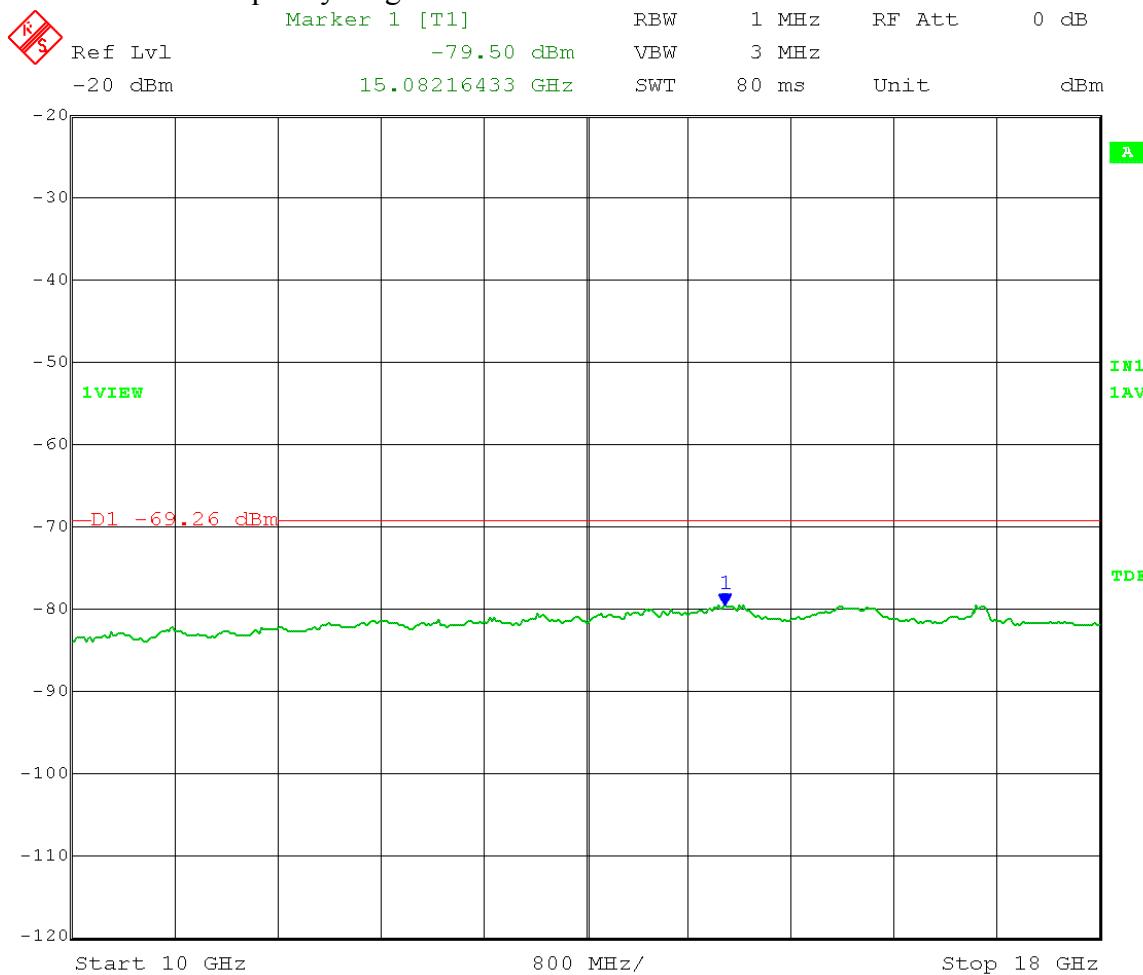
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:23:28

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

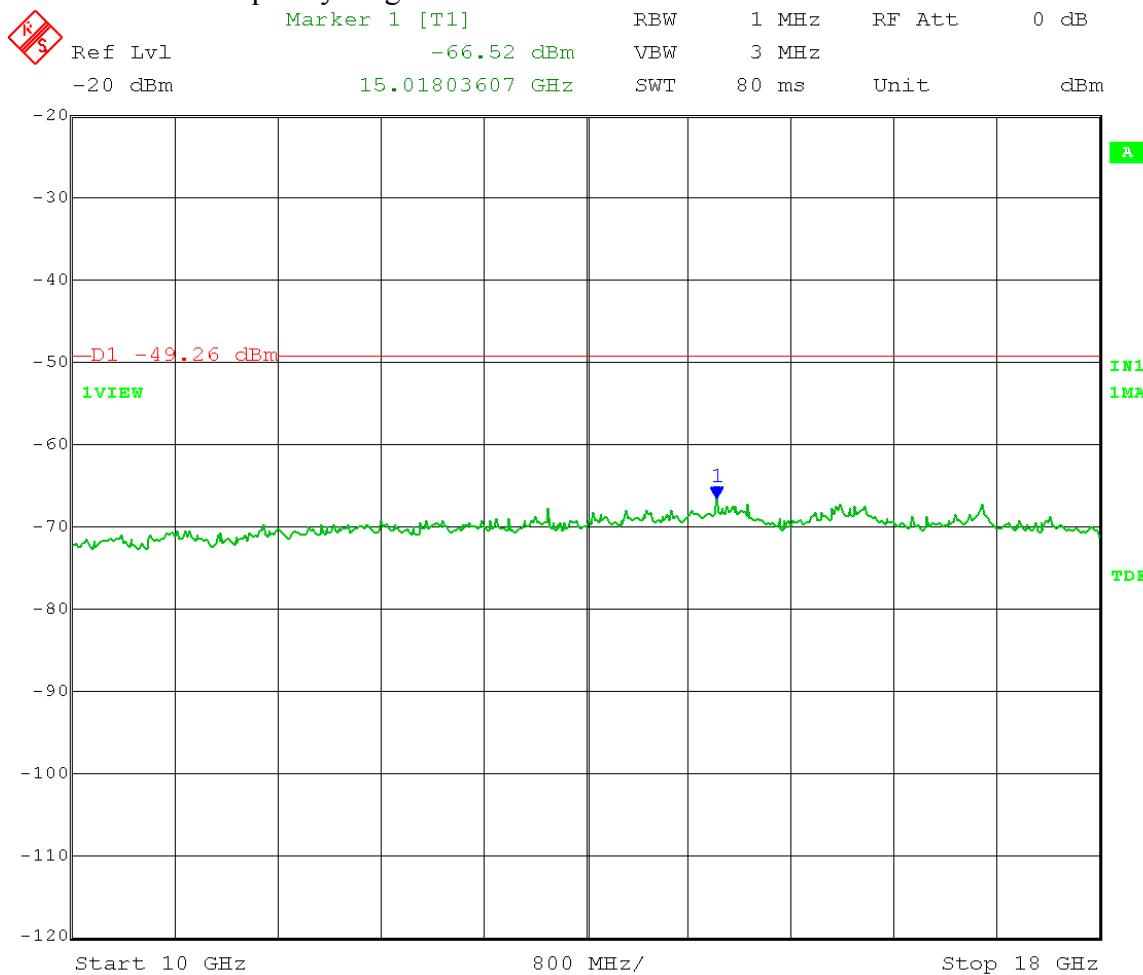
Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:09:41

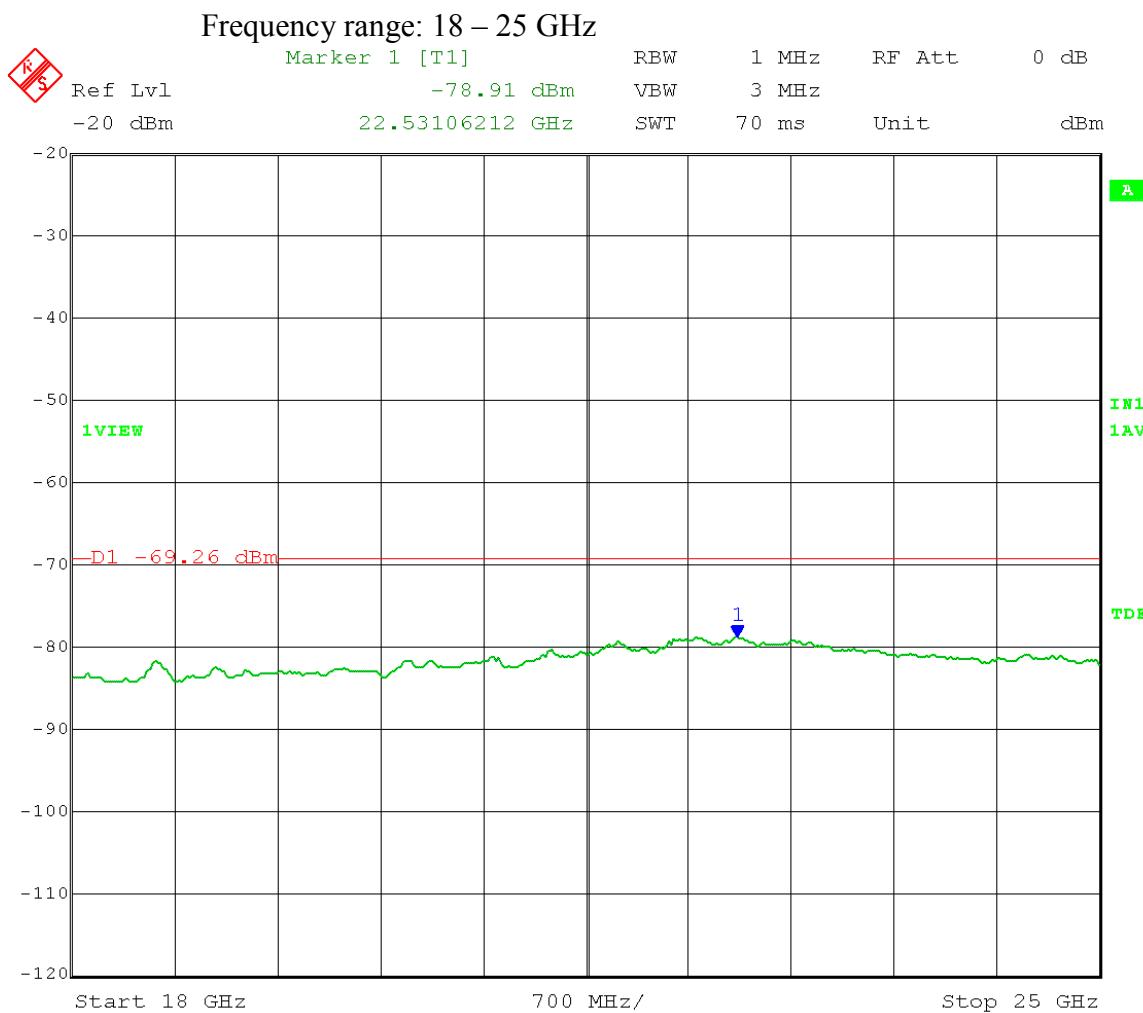
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:08:55

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



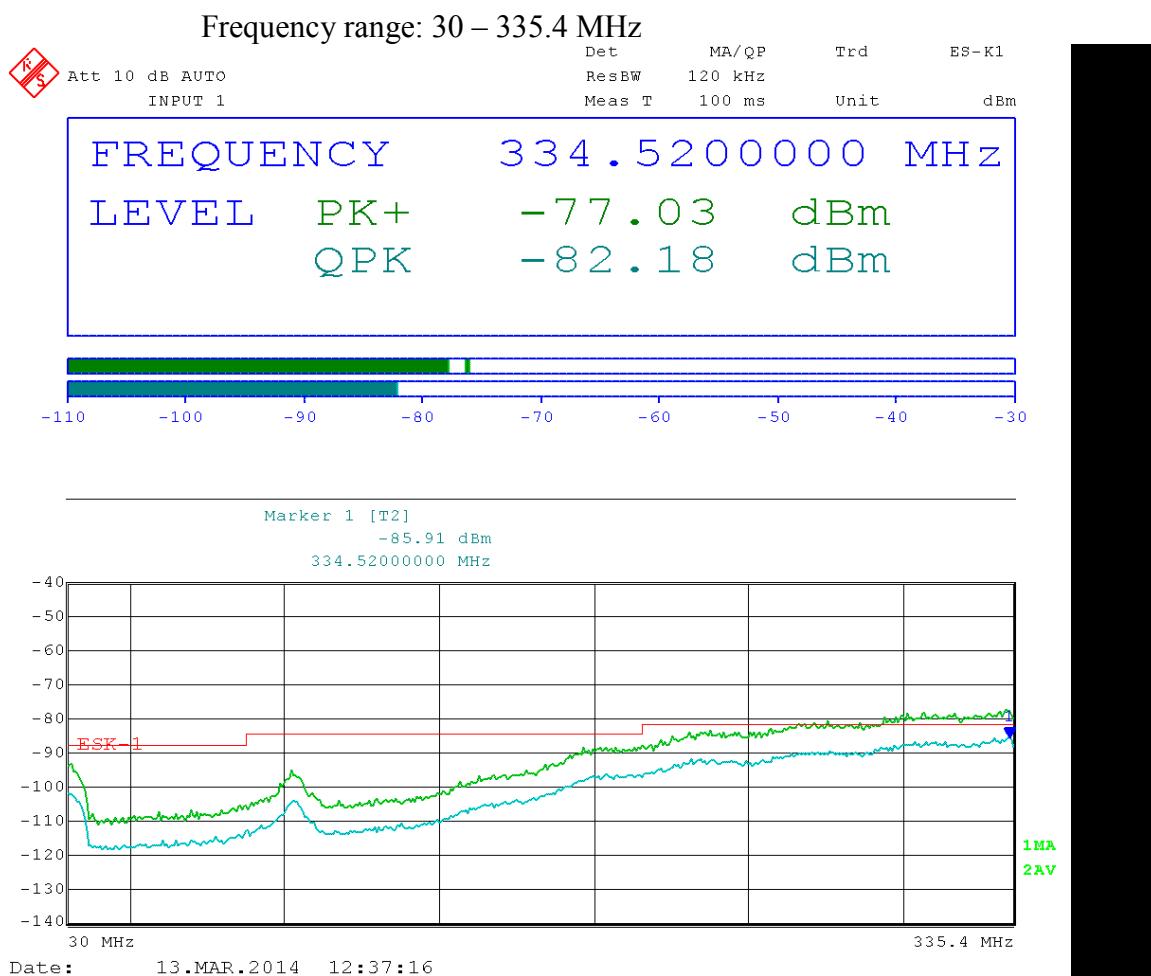
Date: 14.MAR.2014 09:47:21

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2462 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

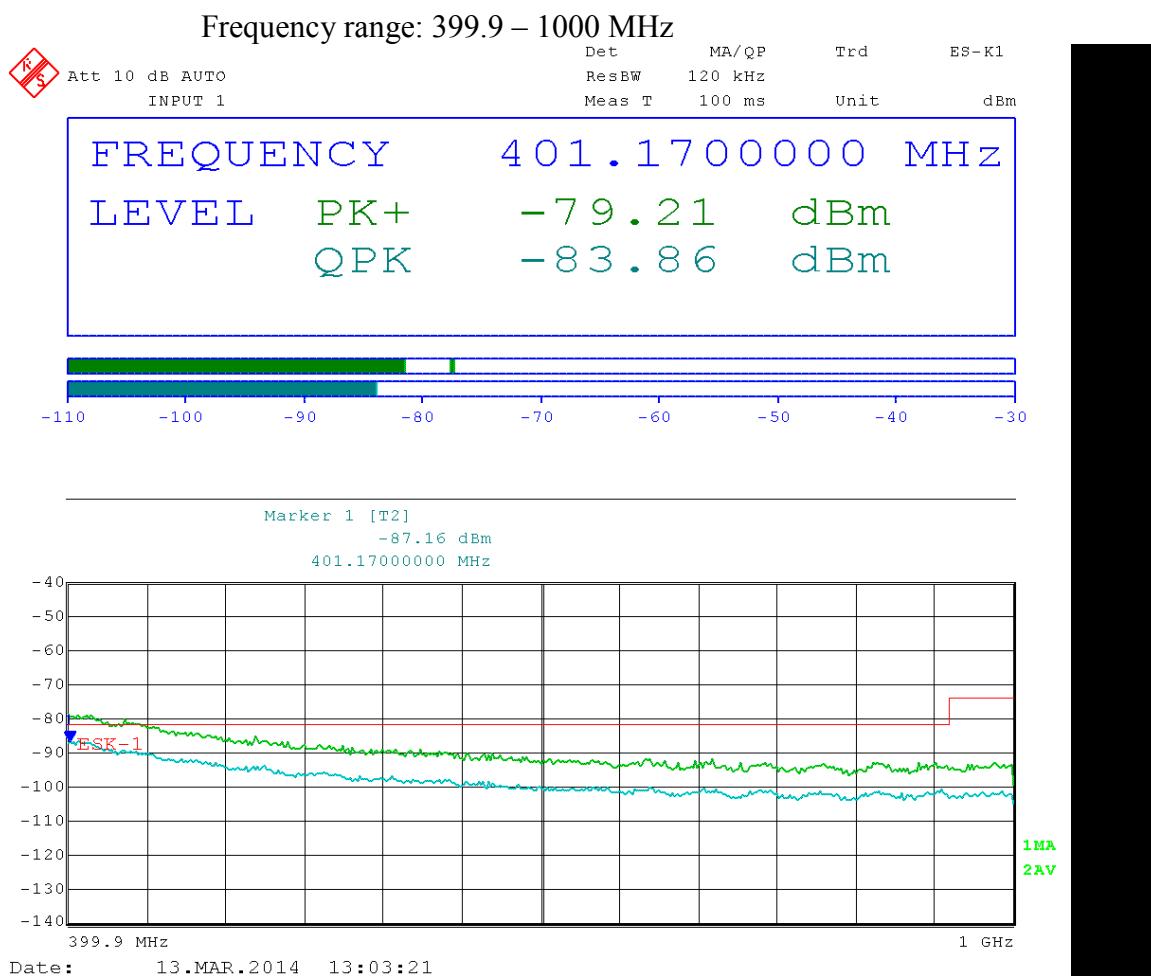


Date: 14.MAR.2014 09:46:14

Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2427 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 10 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 40 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm

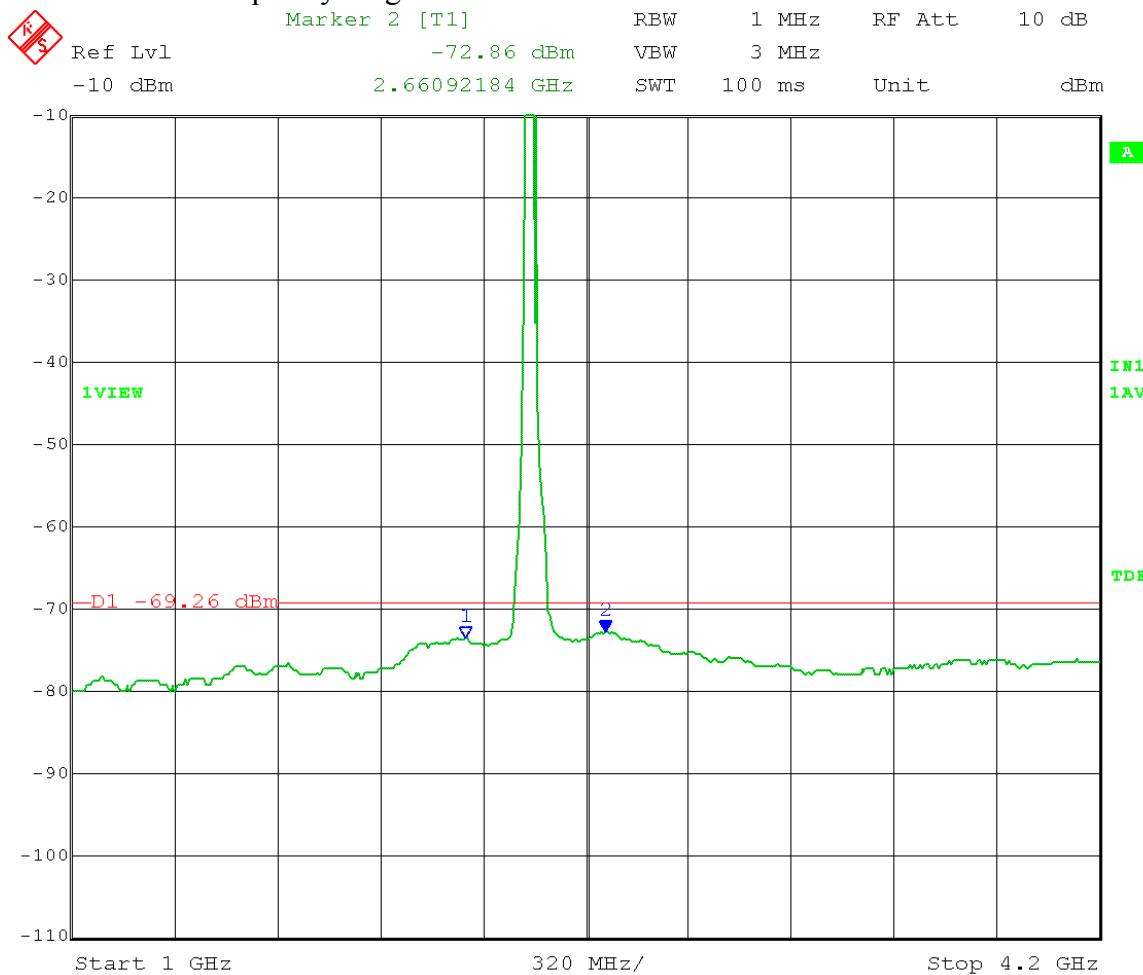


Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Low Channel Transmit = 2427 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 10 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 40 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

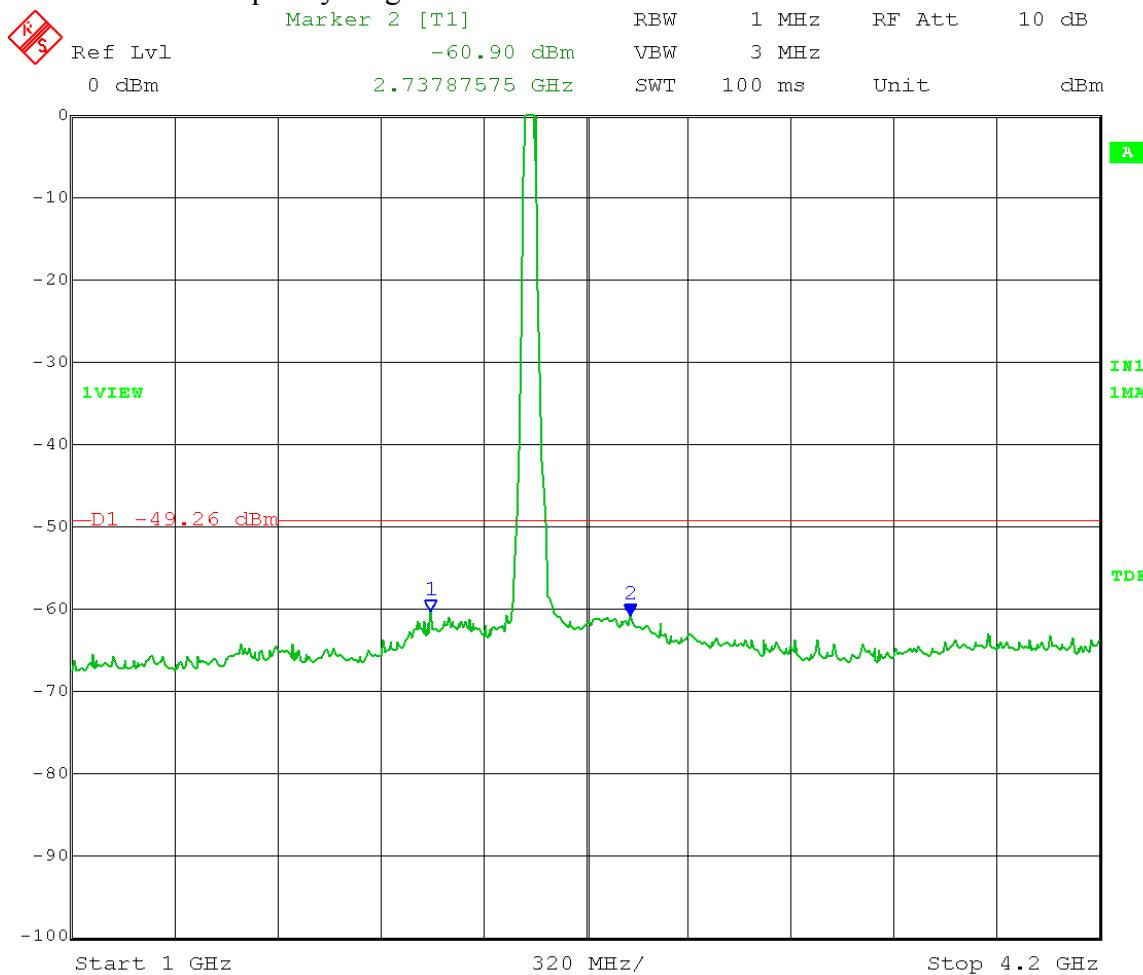
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:39:32

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

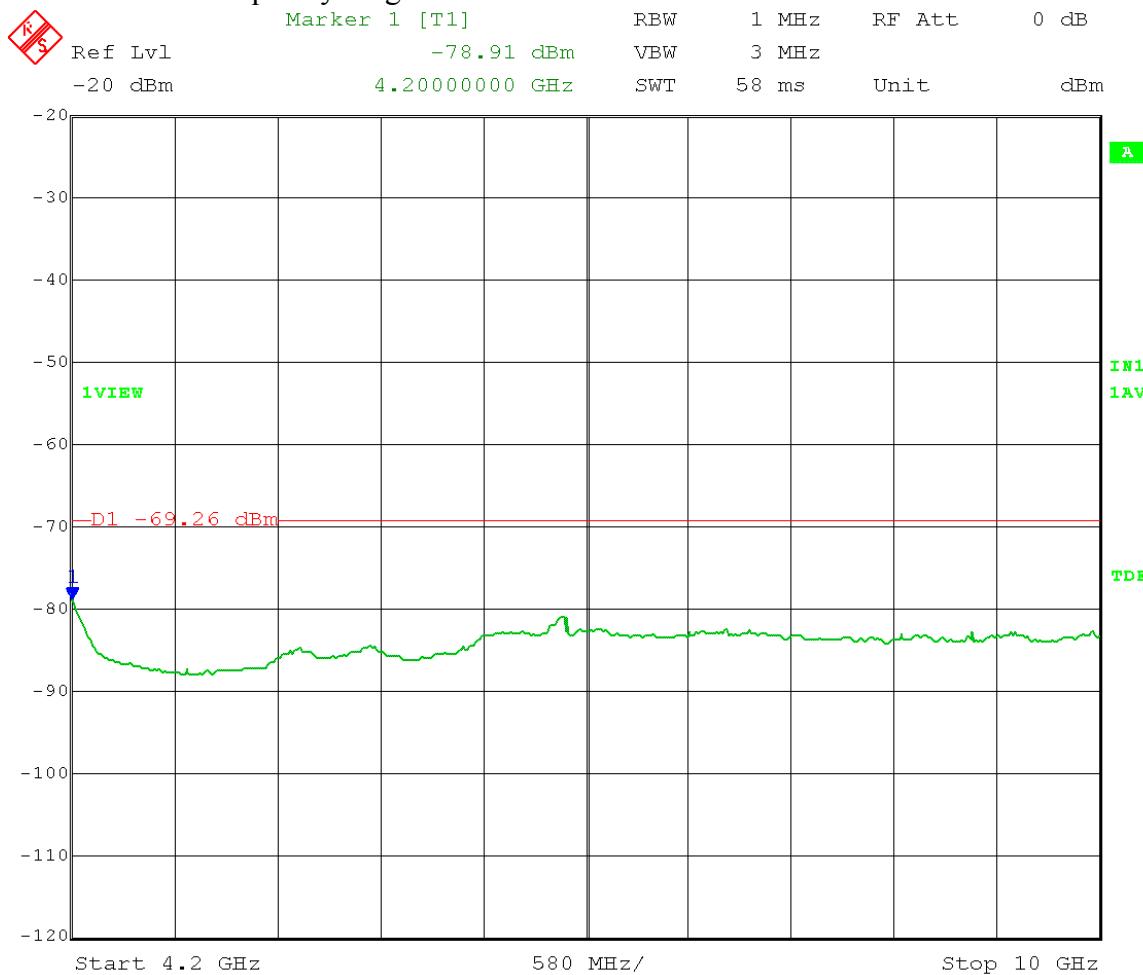
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:40:24

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

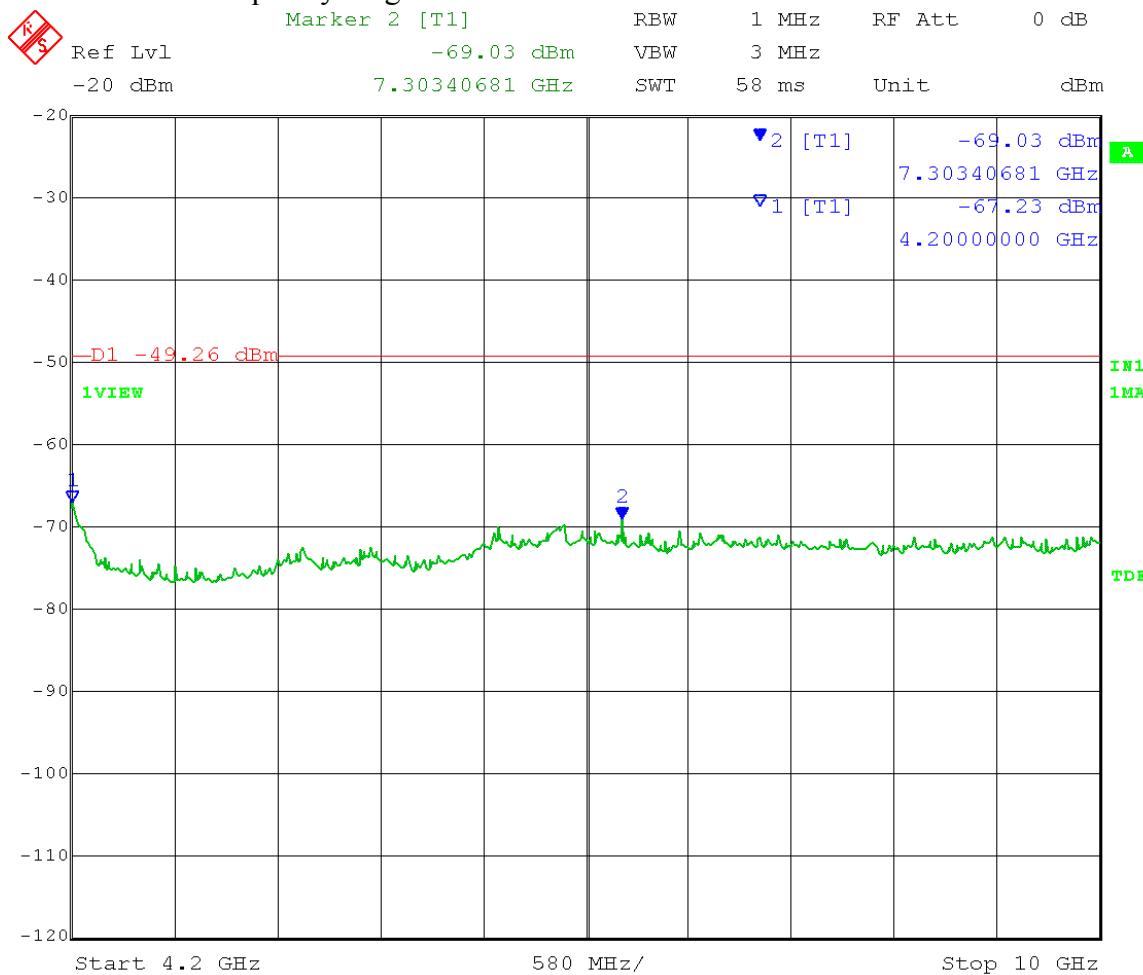
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:34:03

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

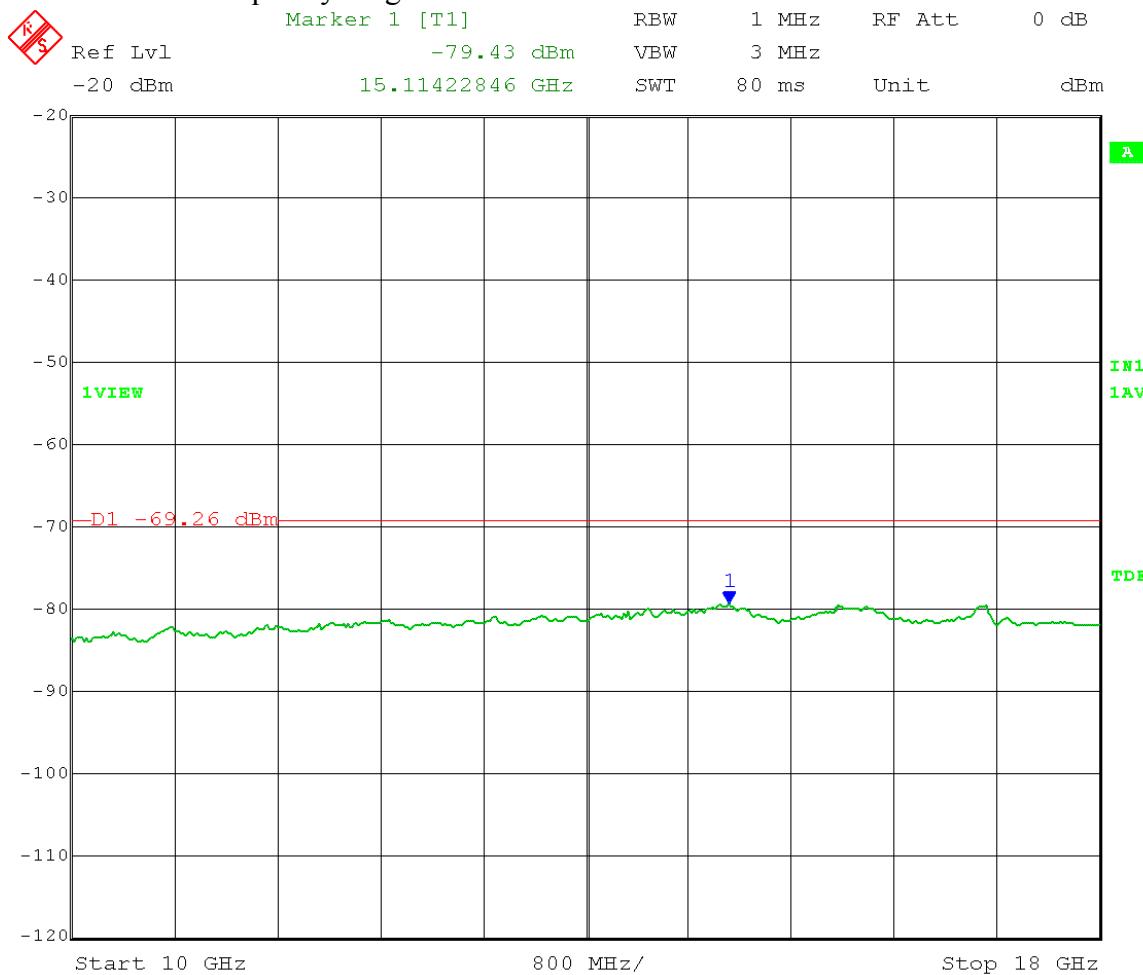
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:32:53

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:18:54

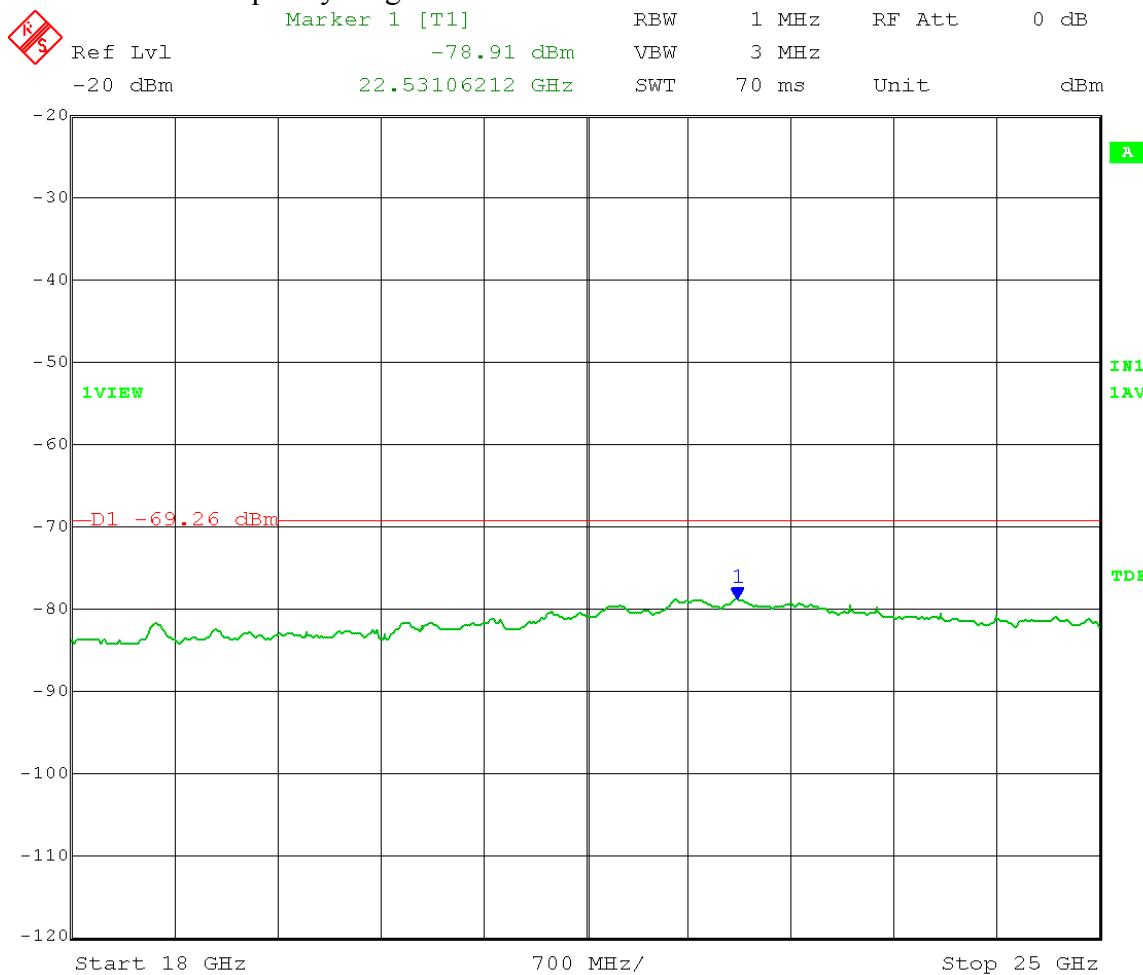
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm



Date: 14.MAR.2014 09:18:05

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

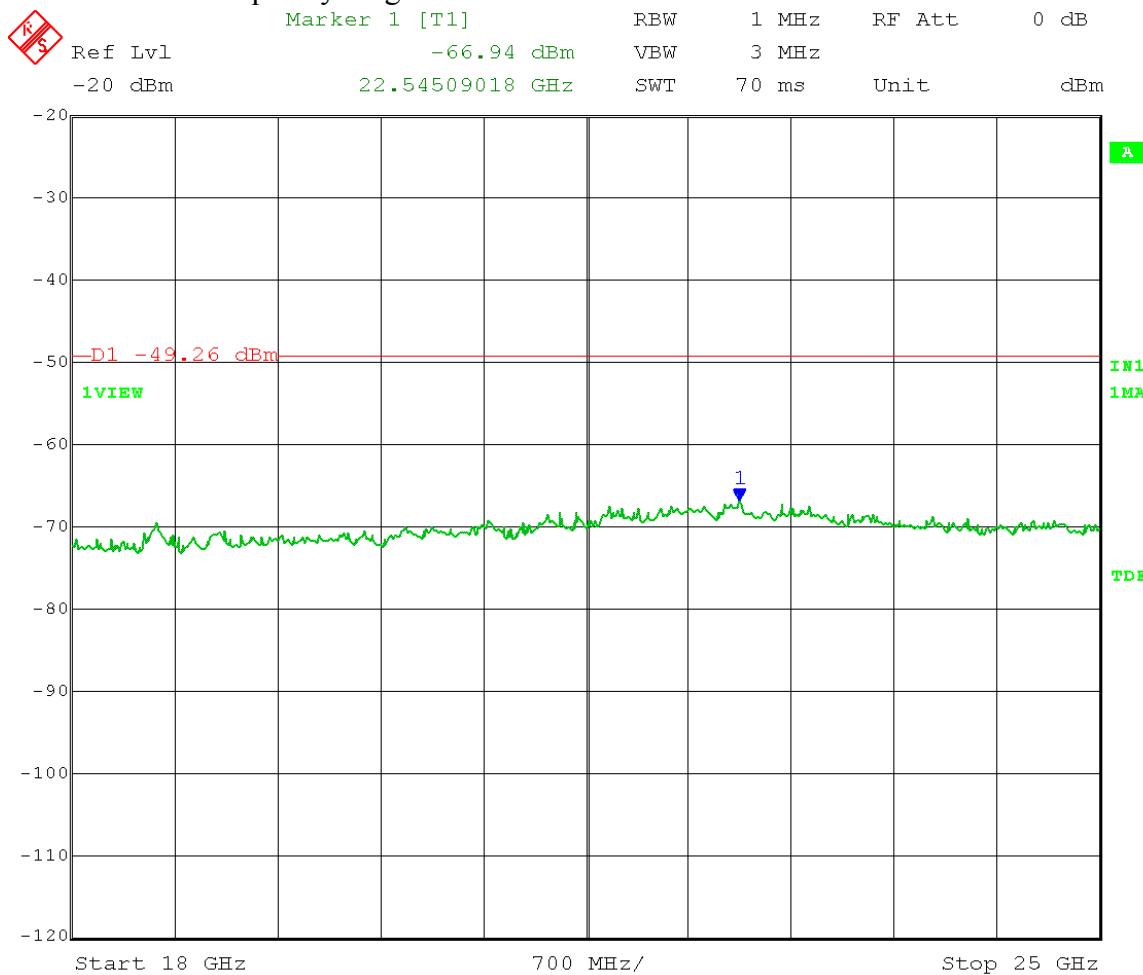
Frequency range: 18 – 25 GHz



Date: 14.MAR.2014 09:55:29

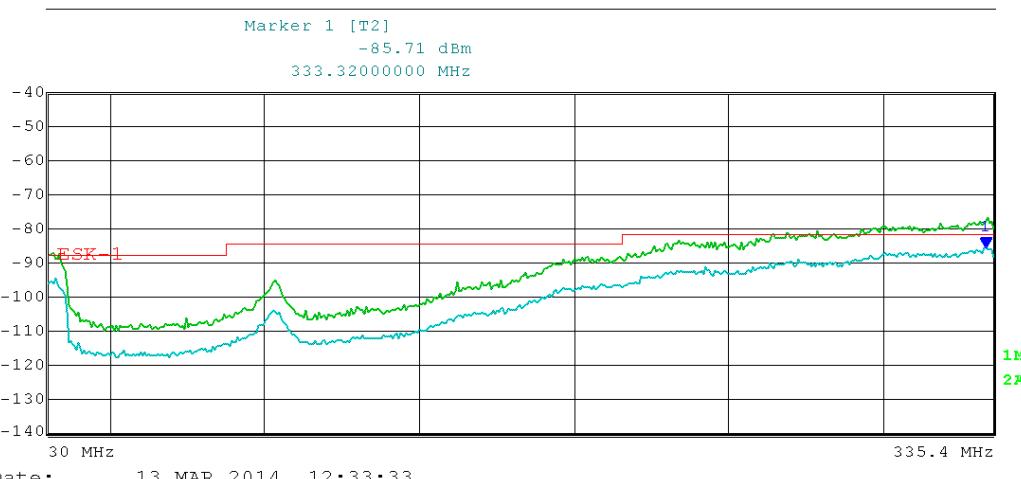
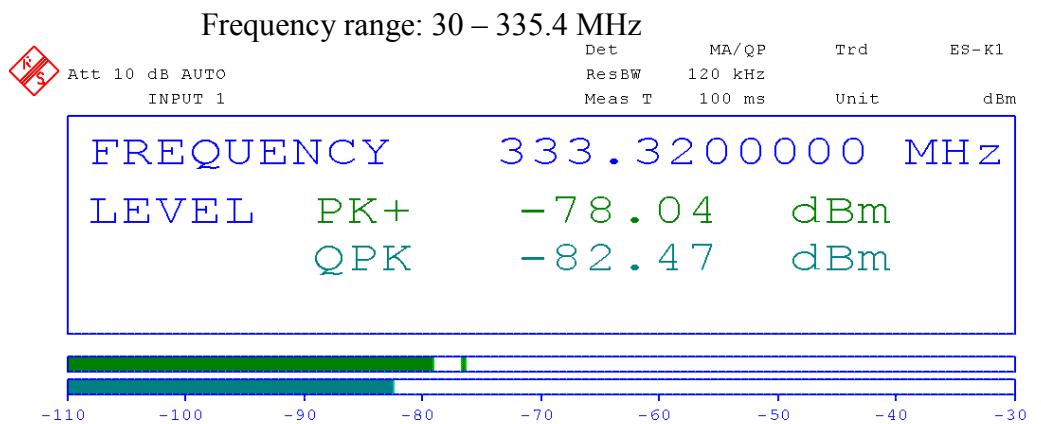
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Low Channel Transmit = 2427 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 10 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

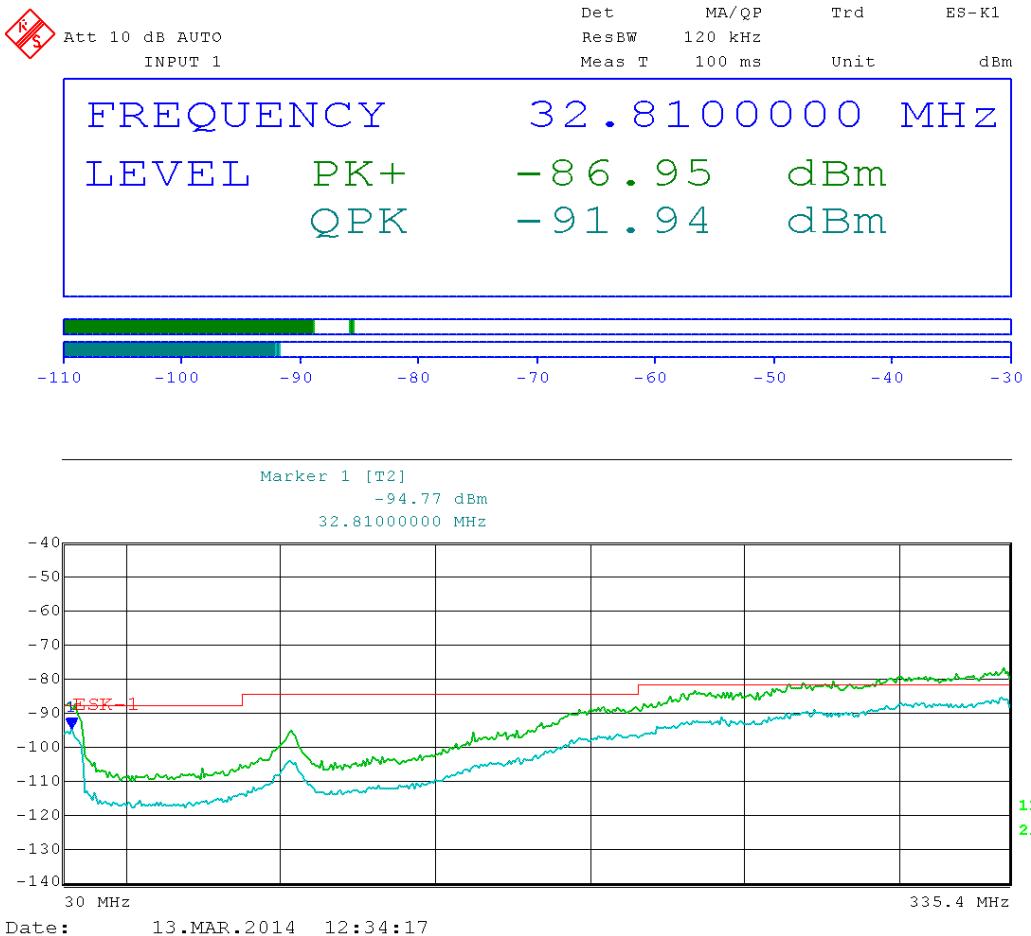
Frequency range: 18 – 25 GHz



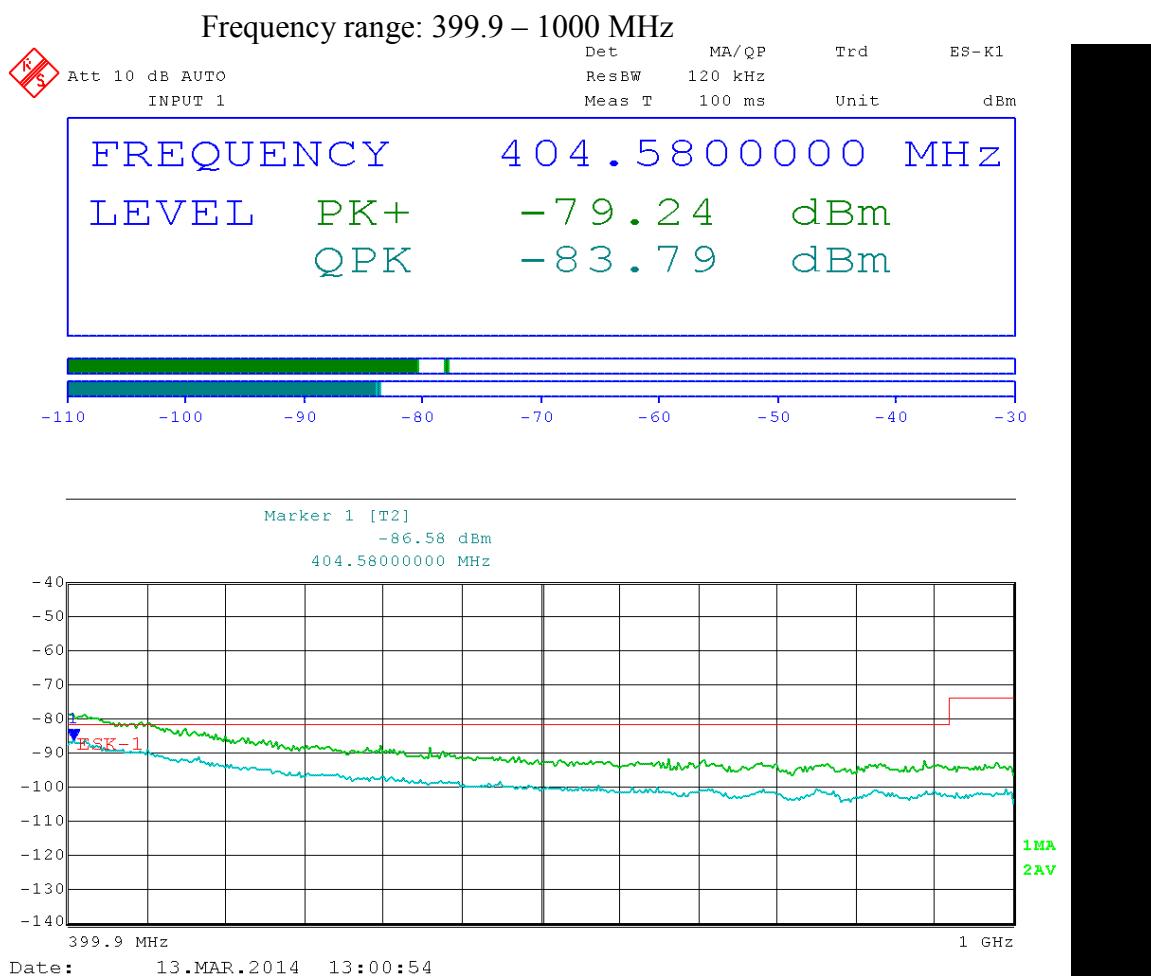
Date: 14.MAR.2014 09:54:31

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment:
Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Conducted limits: (calculated using worst case antenna gain of 25 dBi)
 30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) -4.7 dB (maximum ground reflection) = -87.96 dBm
 88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
 216-960 MHz (46 dB μ V/m): = -81.96 dBm
 960-1000 MHz (54 dB μ V/m): = -73.96 dBm

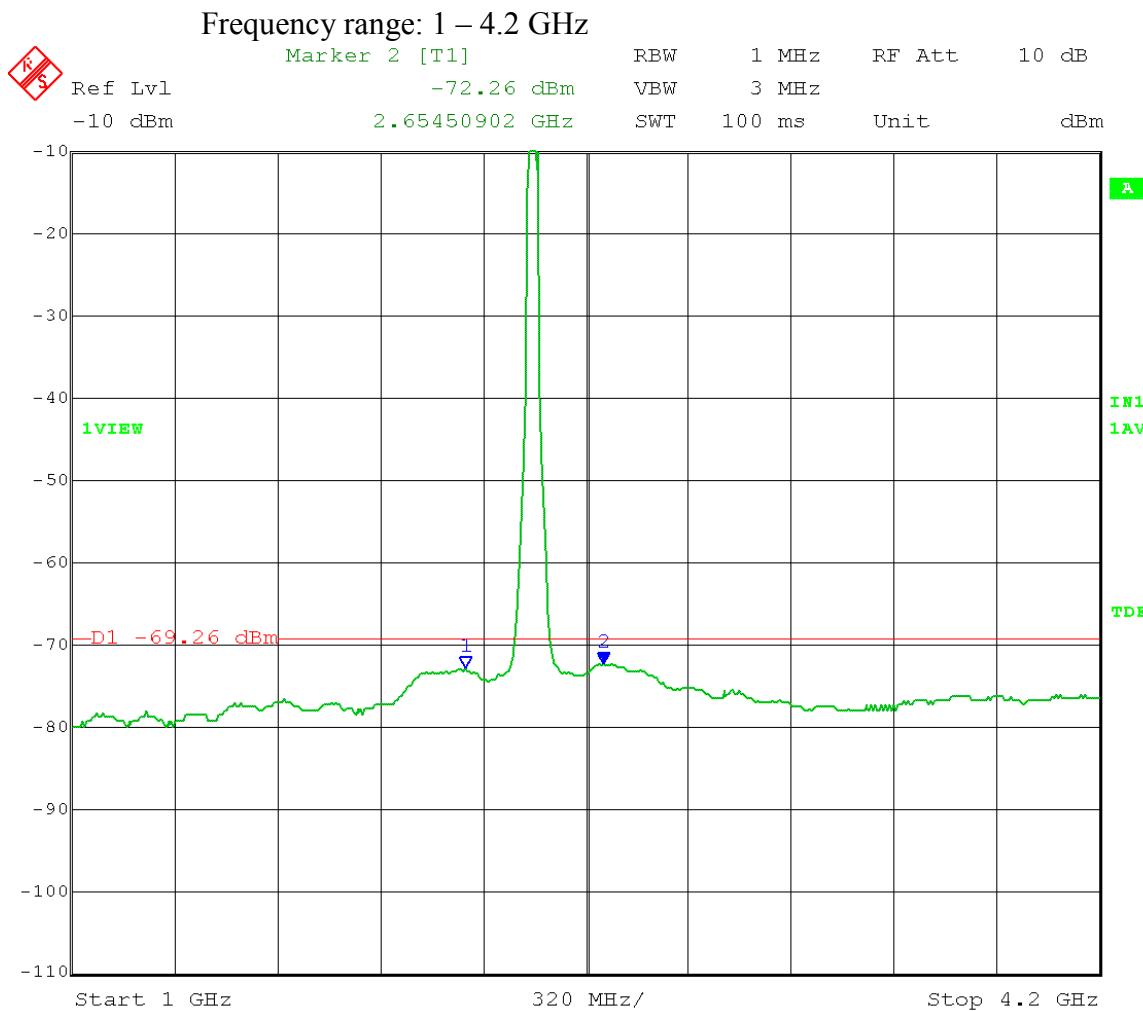




Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
Mid Channel Transmit = 2437 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 11.5 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 40 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



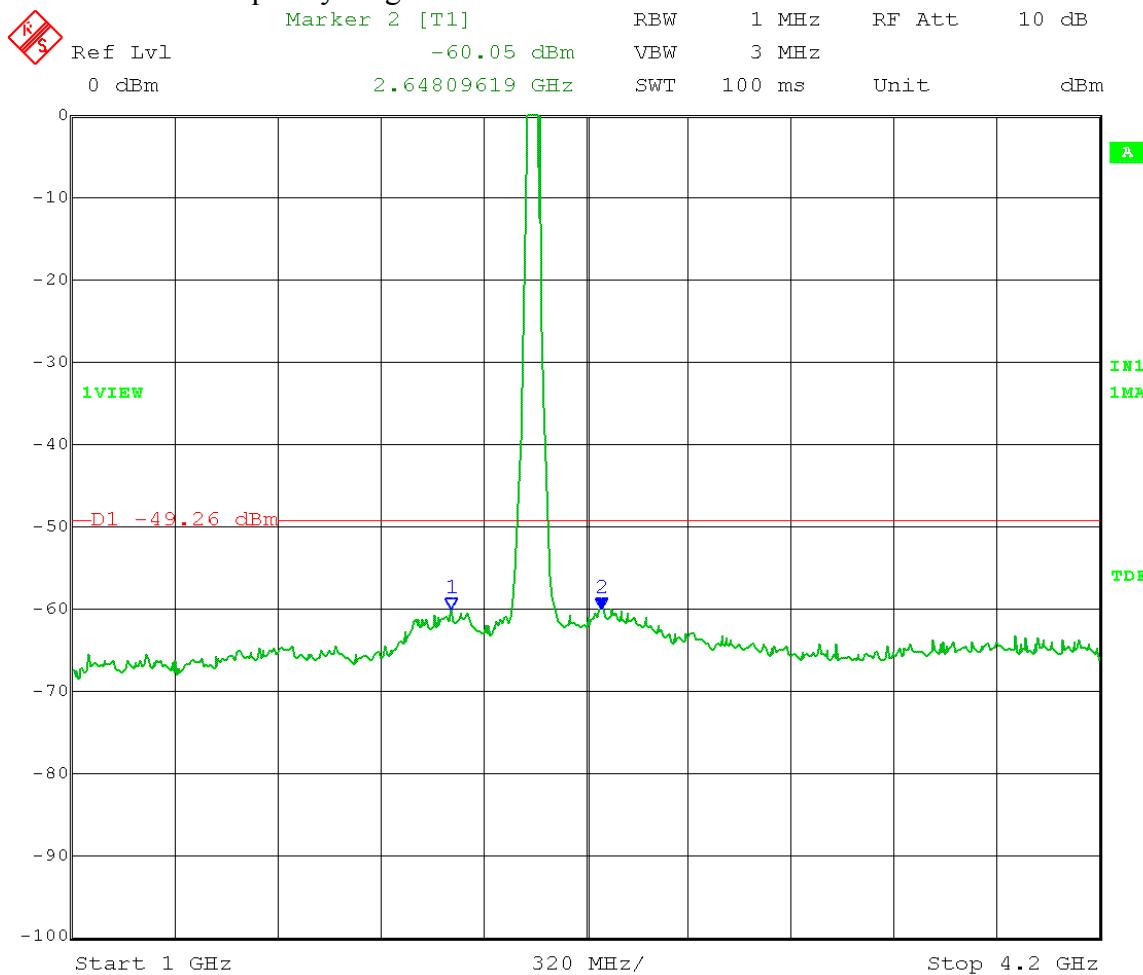
Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 13.MAR.2014 14:35:08

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

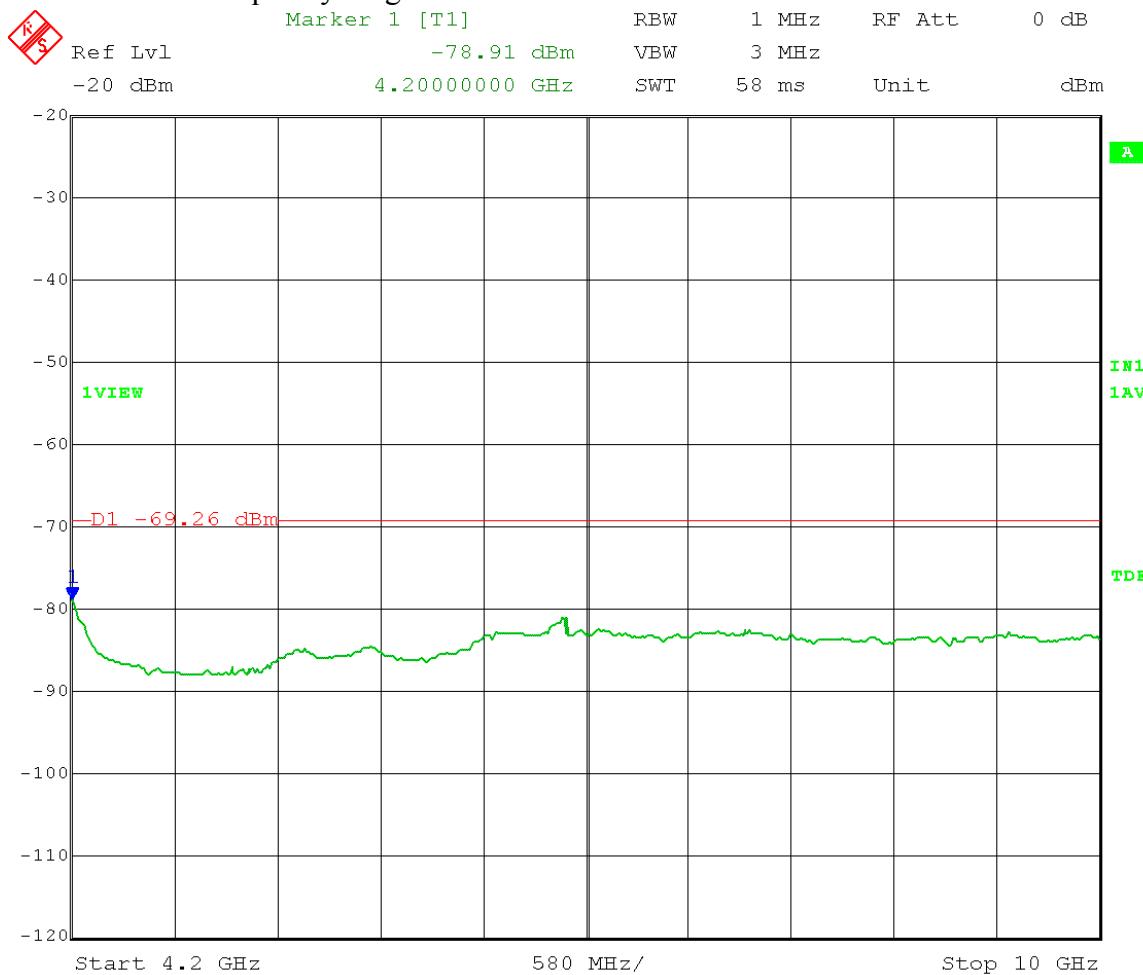
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:36:13

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

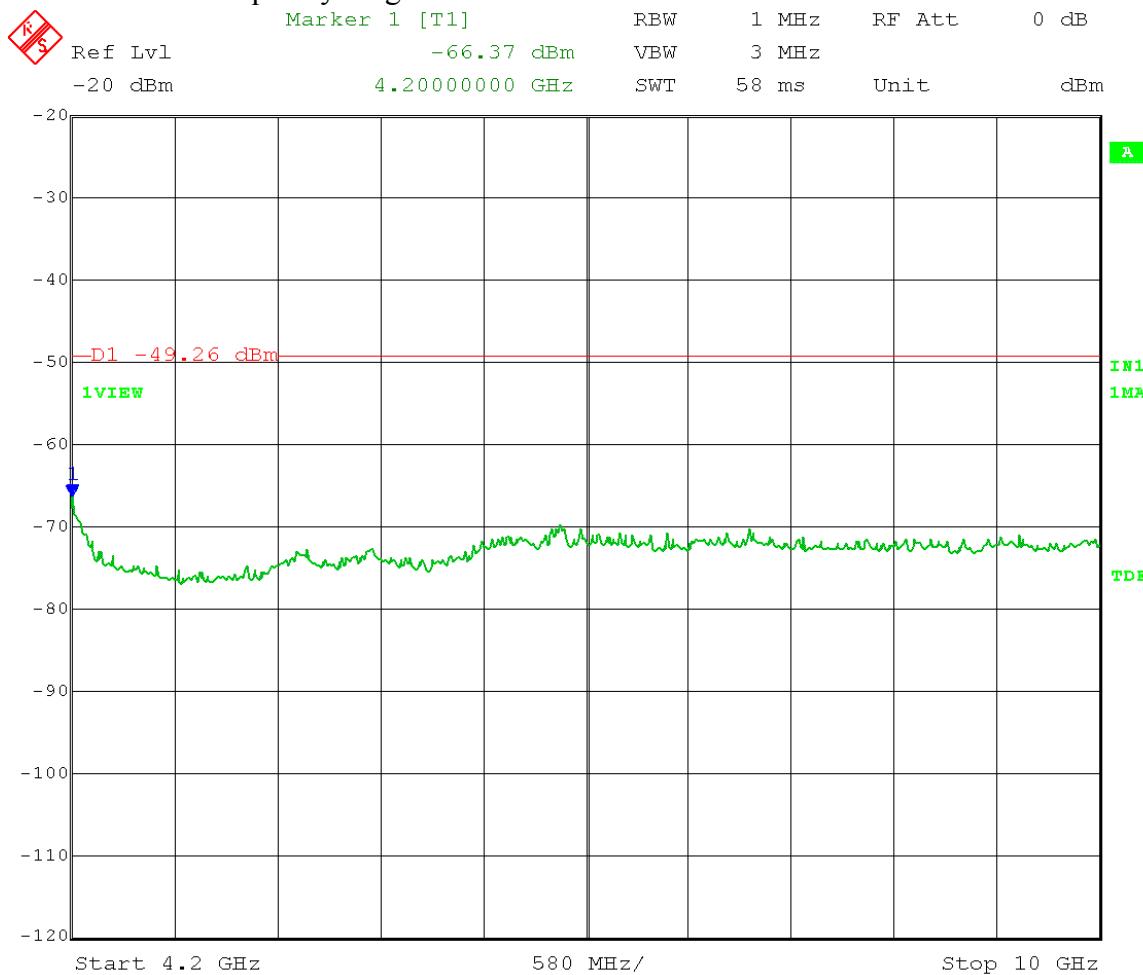
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:27:44

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

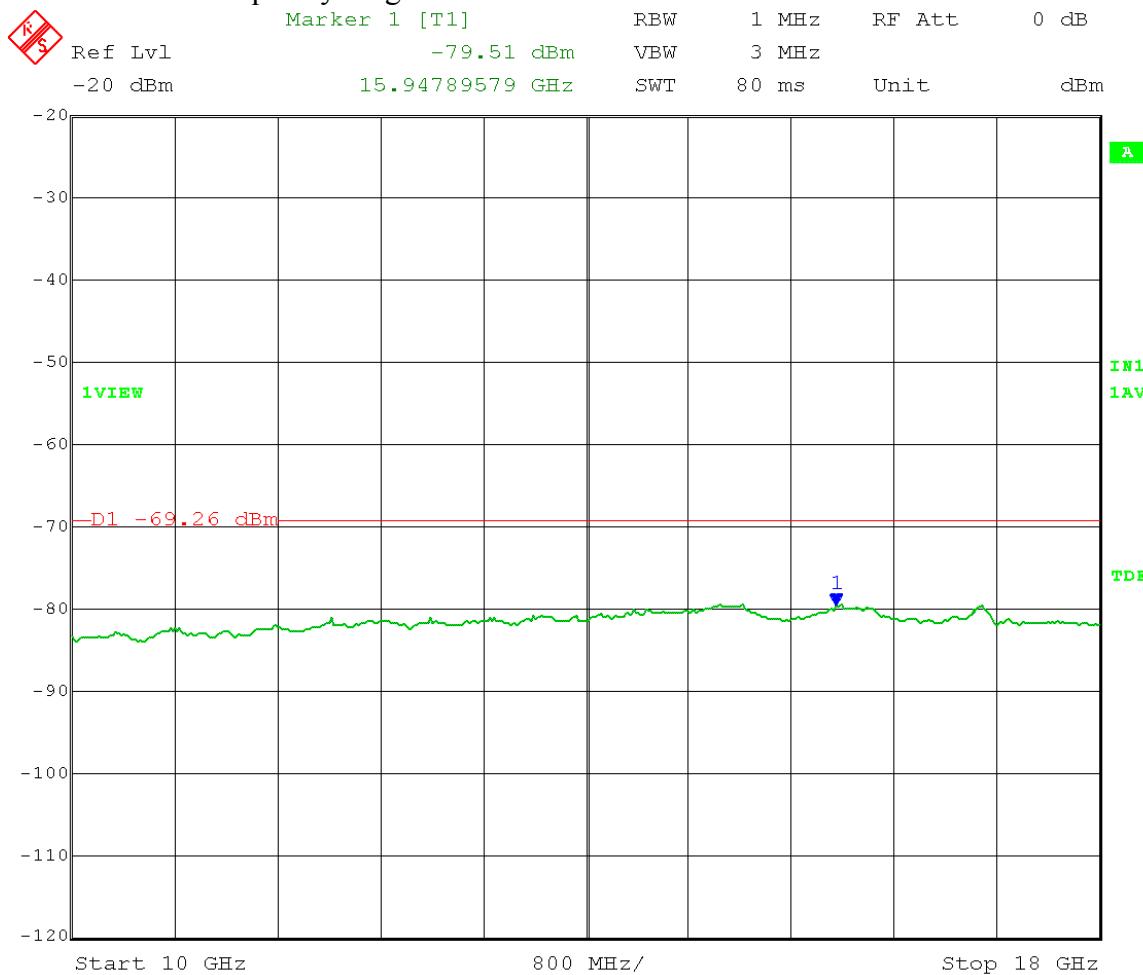
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:28:46

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

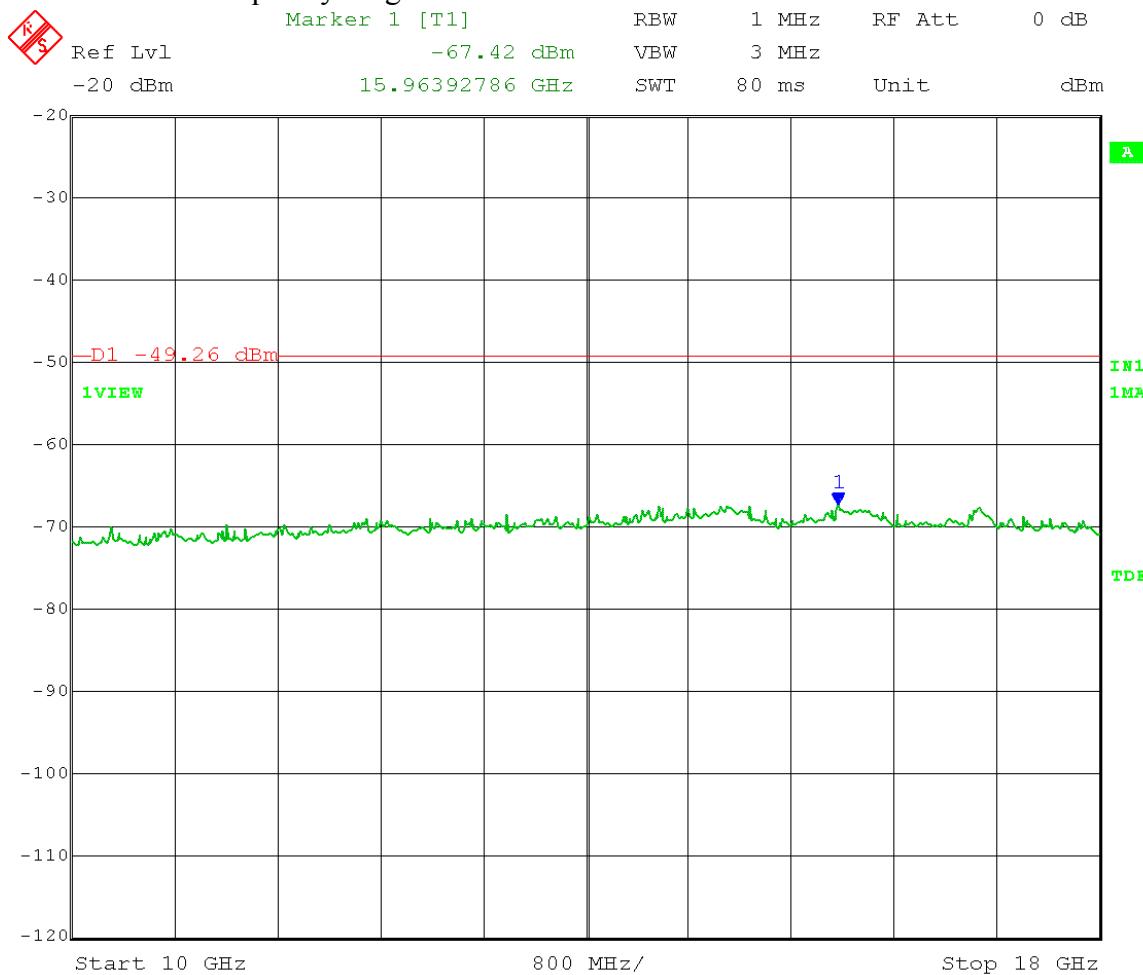
Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:13:08

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:15:05

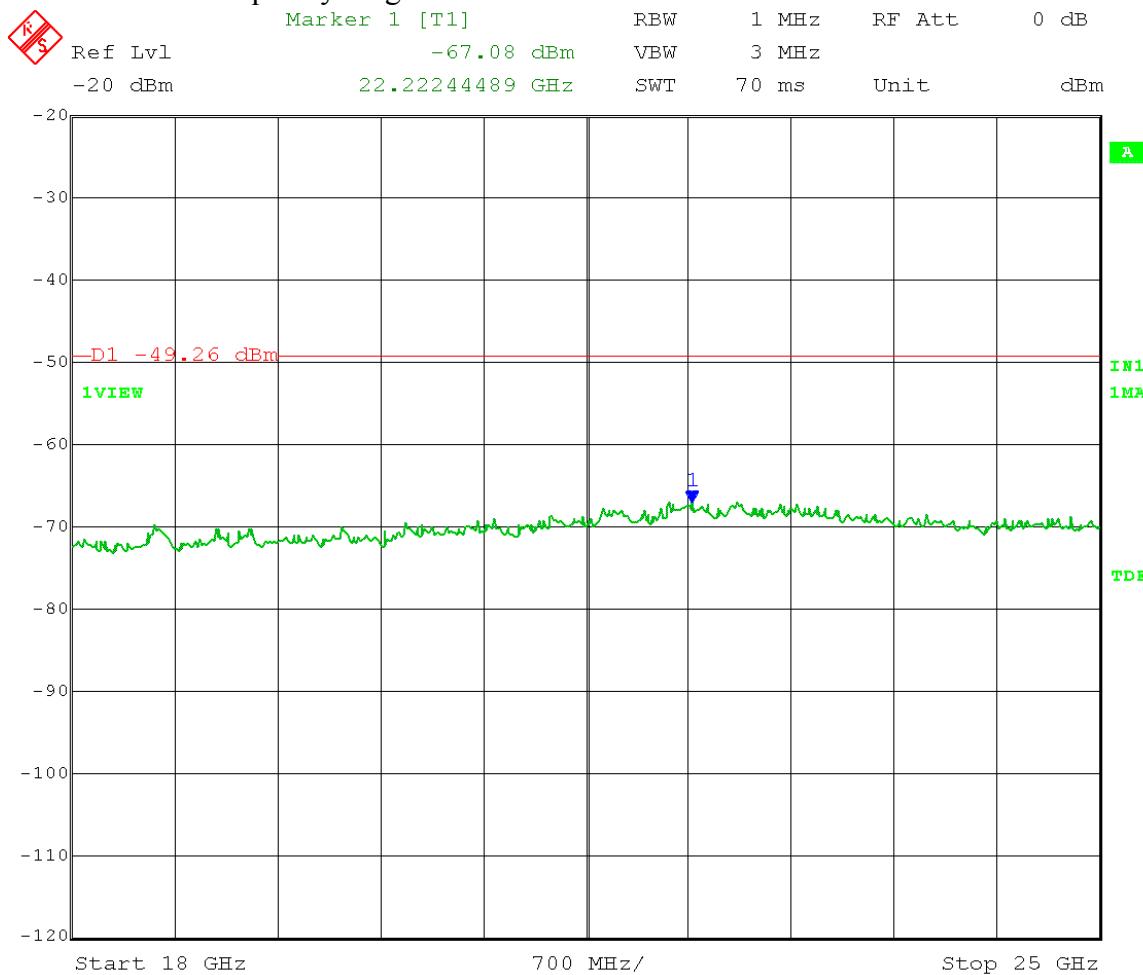
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm



Date: 14.MAR.2014 09:50:49

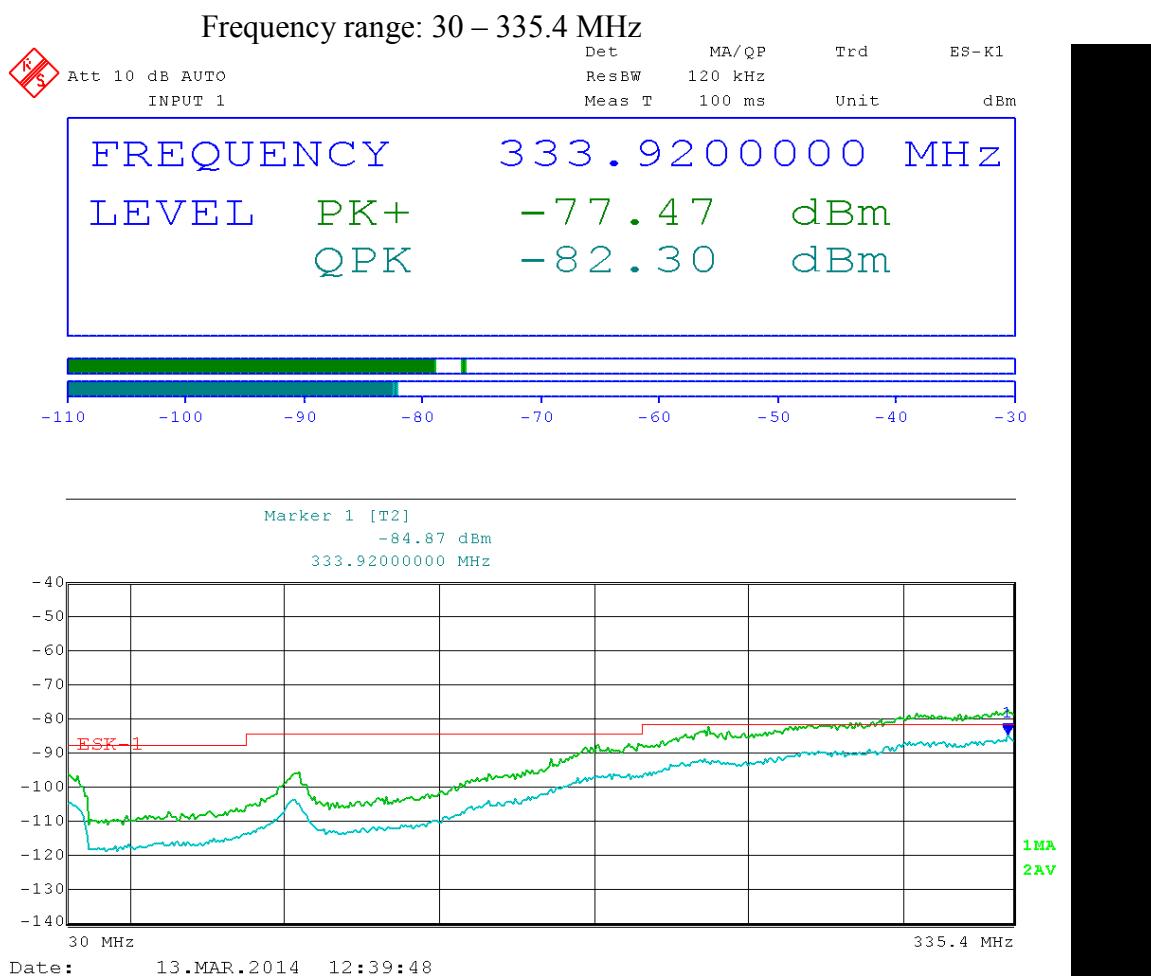
Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 11.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 18 – 25 GHz

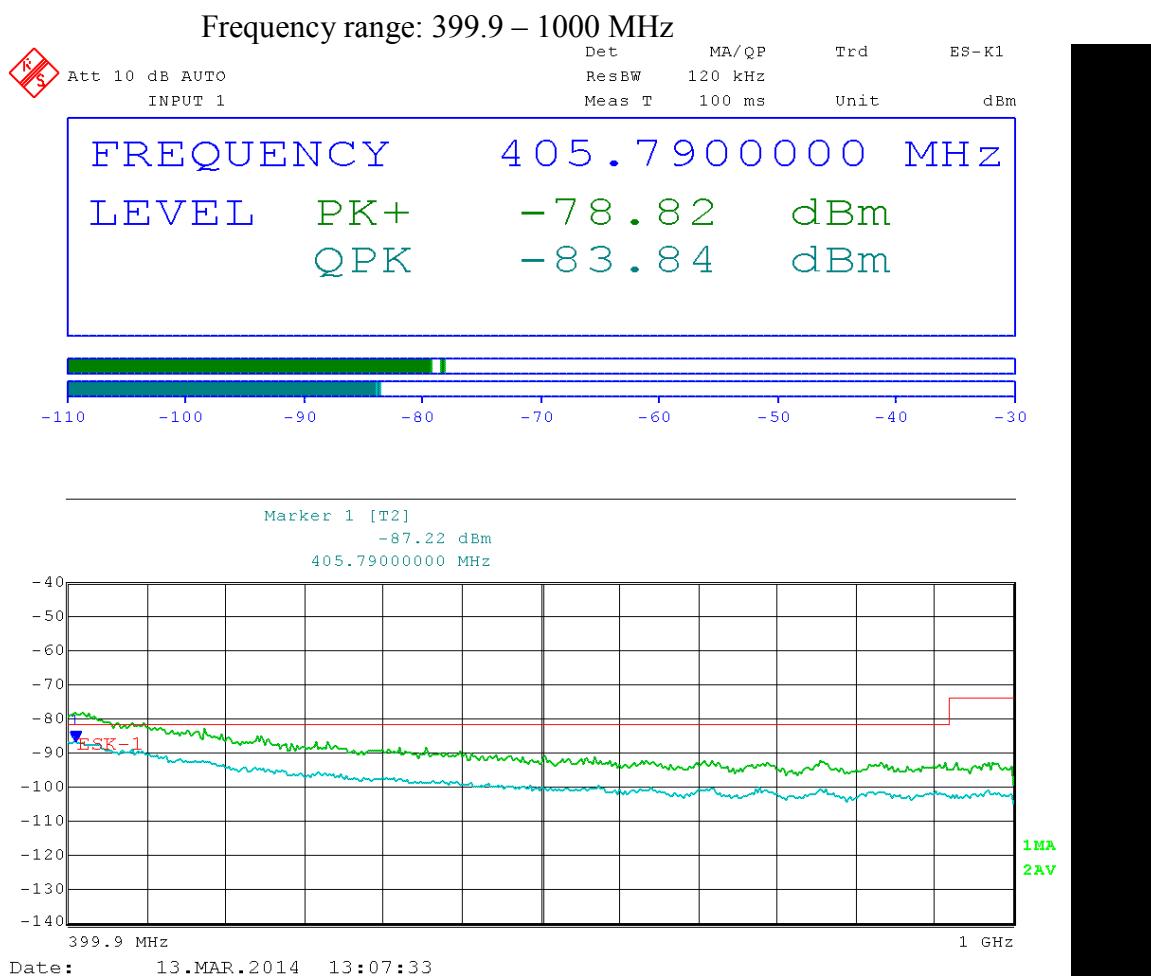


Date: 14.MAR.2014 09:51:55

Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
High Channel Transmit = 2452 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 6.5 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 40 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm

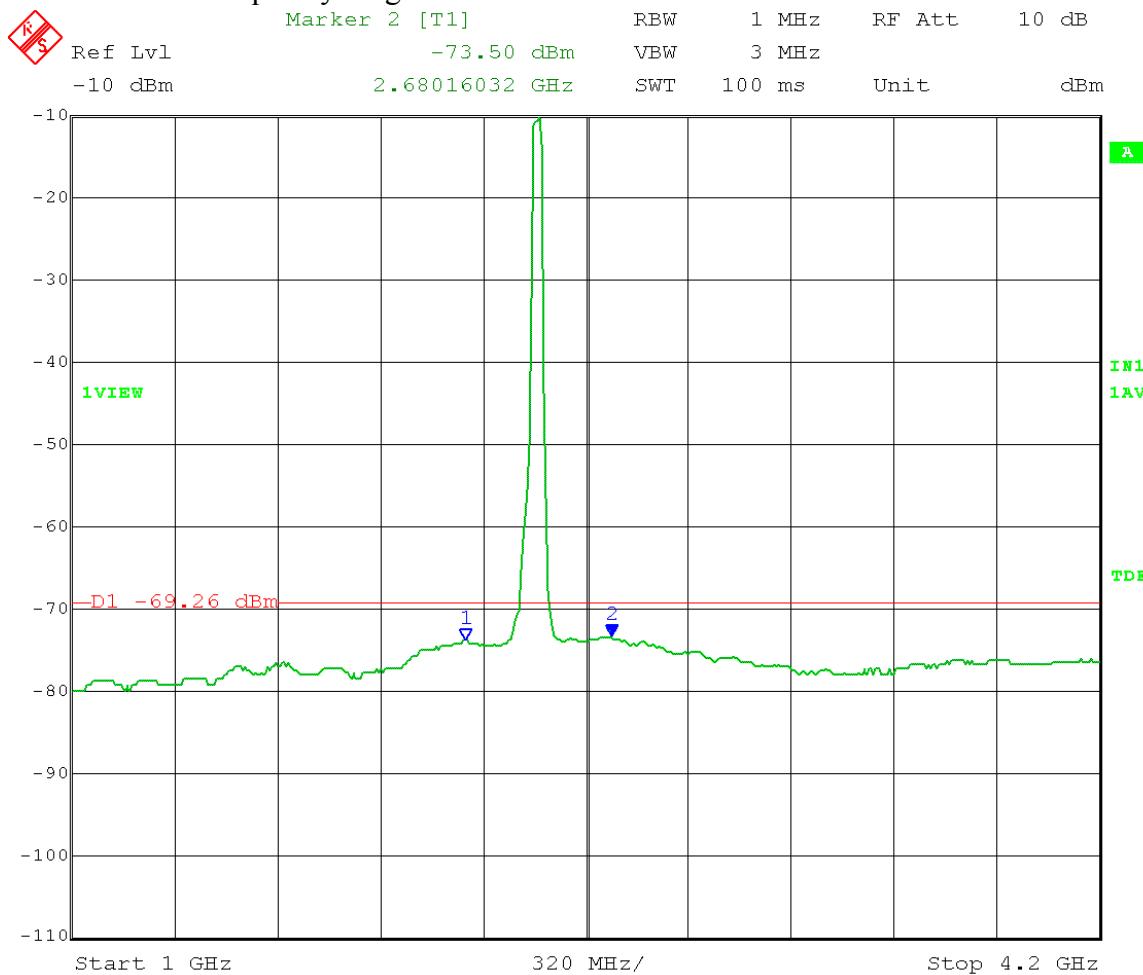


Test Date: 03-13-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Unwanted Emission Levels in Restricted Bands- Conducted
Operator: Craig B
Comment: Receiver detector bandwidth 120 kHz
High Channel Transmit = 2452 MHz
Point-to-Point & Point-to-Multipoint operation
Output Power Setting 6.5 (used for 17 dBi antenna)
Antenna gain: 17, 19, or 25 dBi
Channel bandwidth: 40 MHz
Output port: 1 OFDM MCS15
Conducted limits: (calculated using worst case antenna gain of 25 dBi)
30-88 MHz: = $40 \text{ dB}\mu\text{V/m} + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna
gain – 3 dB (MIMO operation) -4.7 dB (maximum ground
reflection = -87.96 dBm
88-216 MHz (43.5 dB μ V/m): = -84.46 dBm
216-960 MHz (46 dB μ V/m): = -81.96 dBm
960-1000 MHz (54 dB μ V/m): = -73.96 dBm



Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -69.26 dBm

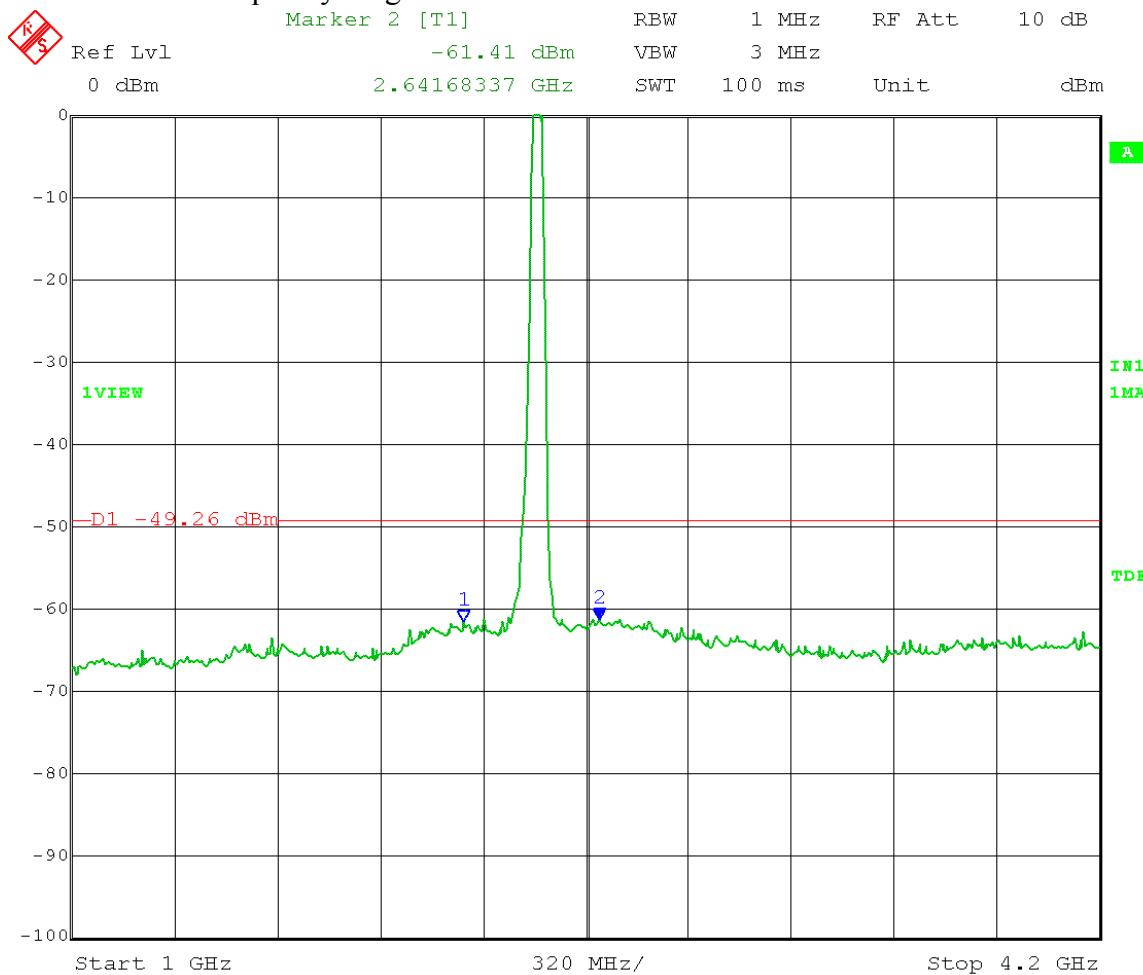
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:43:31

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

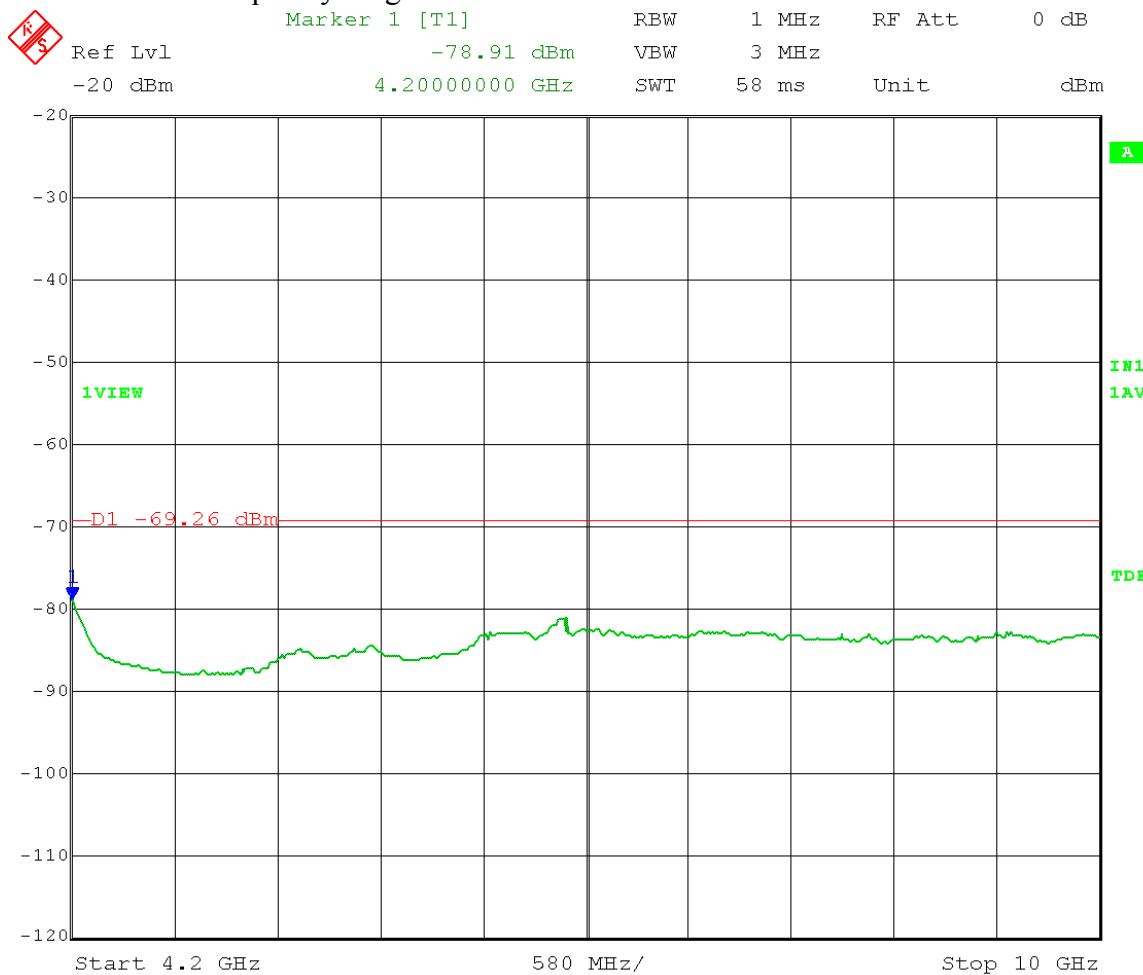
Frequency range: 1 – 4.2 GHz



Date: 13.MAR.2014 14:44:47

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -69.26 \text{ dBm}$

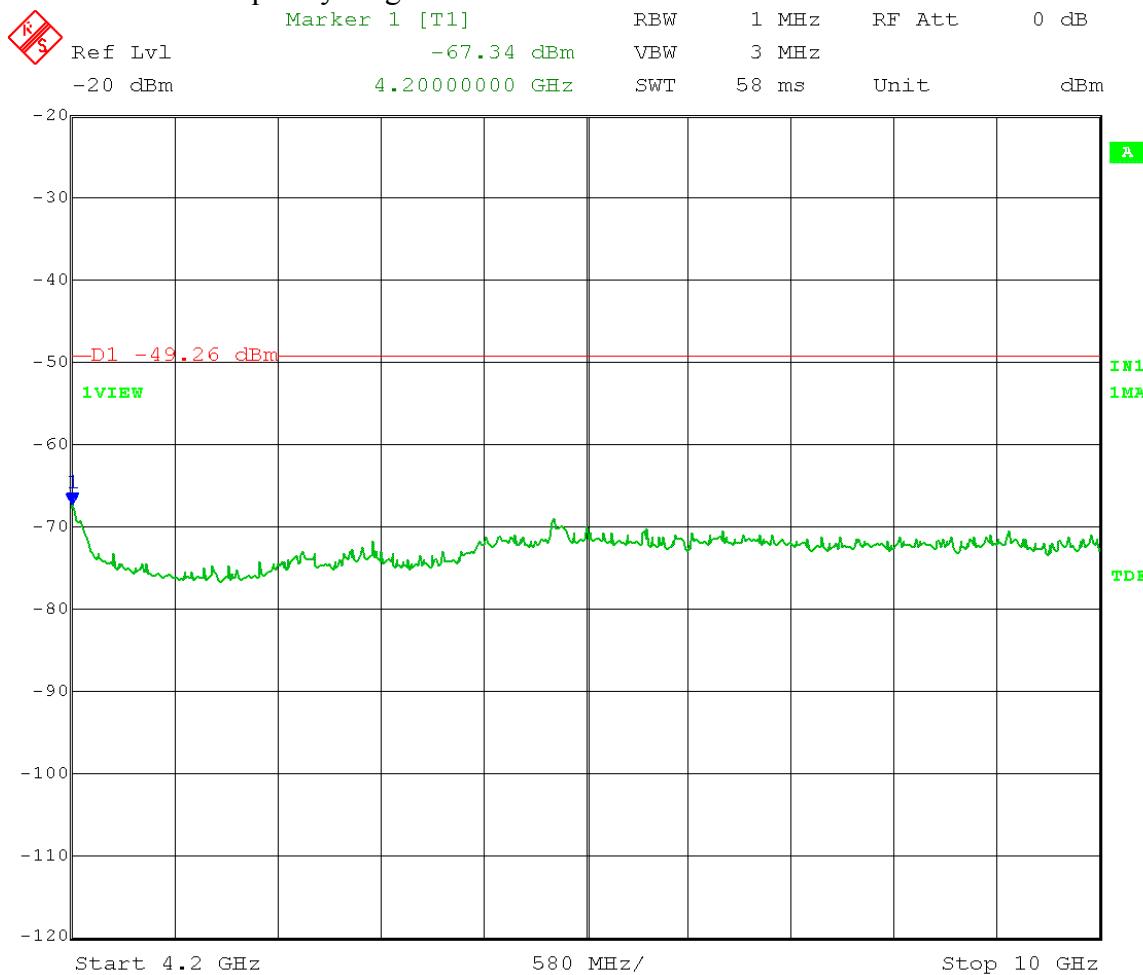
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:37:02

Test Date: 03-13-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

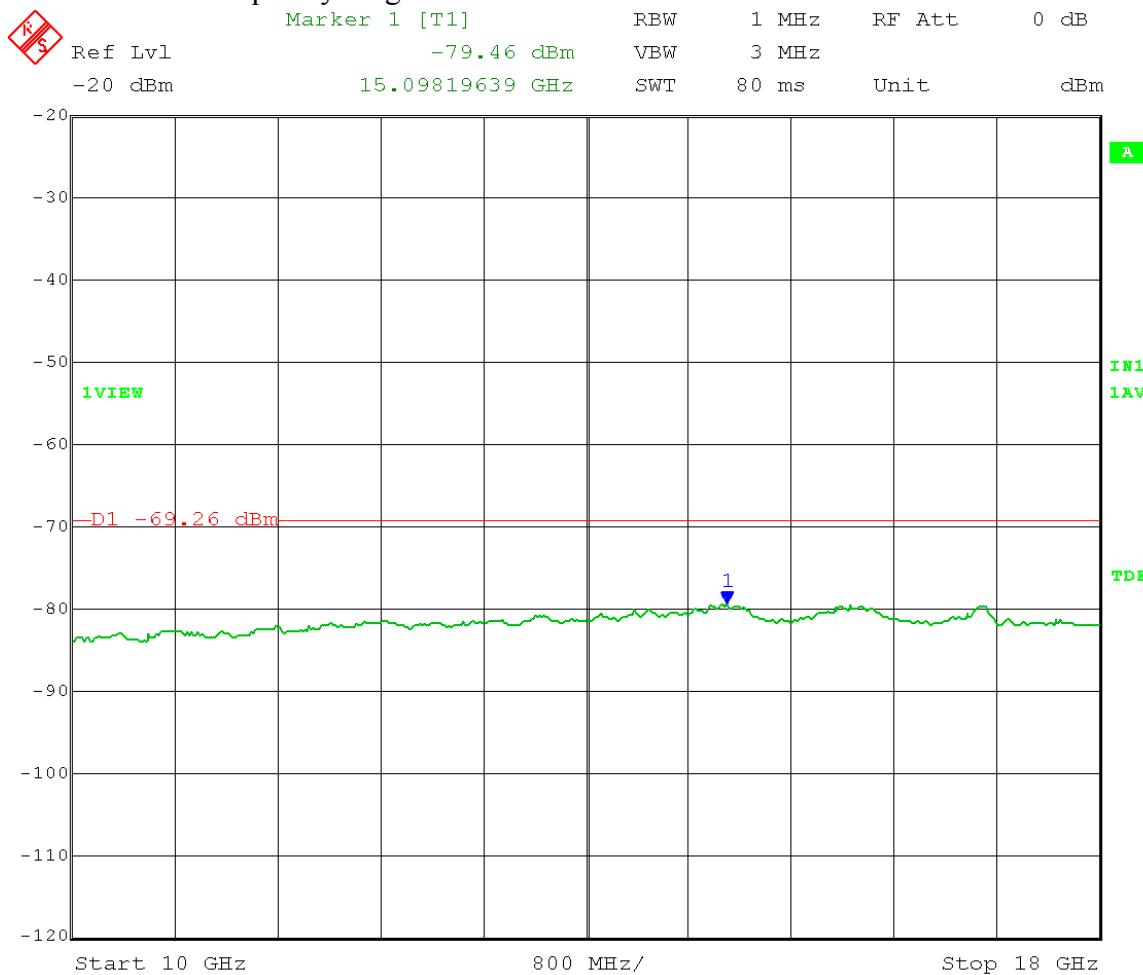
Frequency range: 4.2 – 10 GHz



Date: 13.MAR.2014 15:38:04

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -69.26 \text{ dBm}$

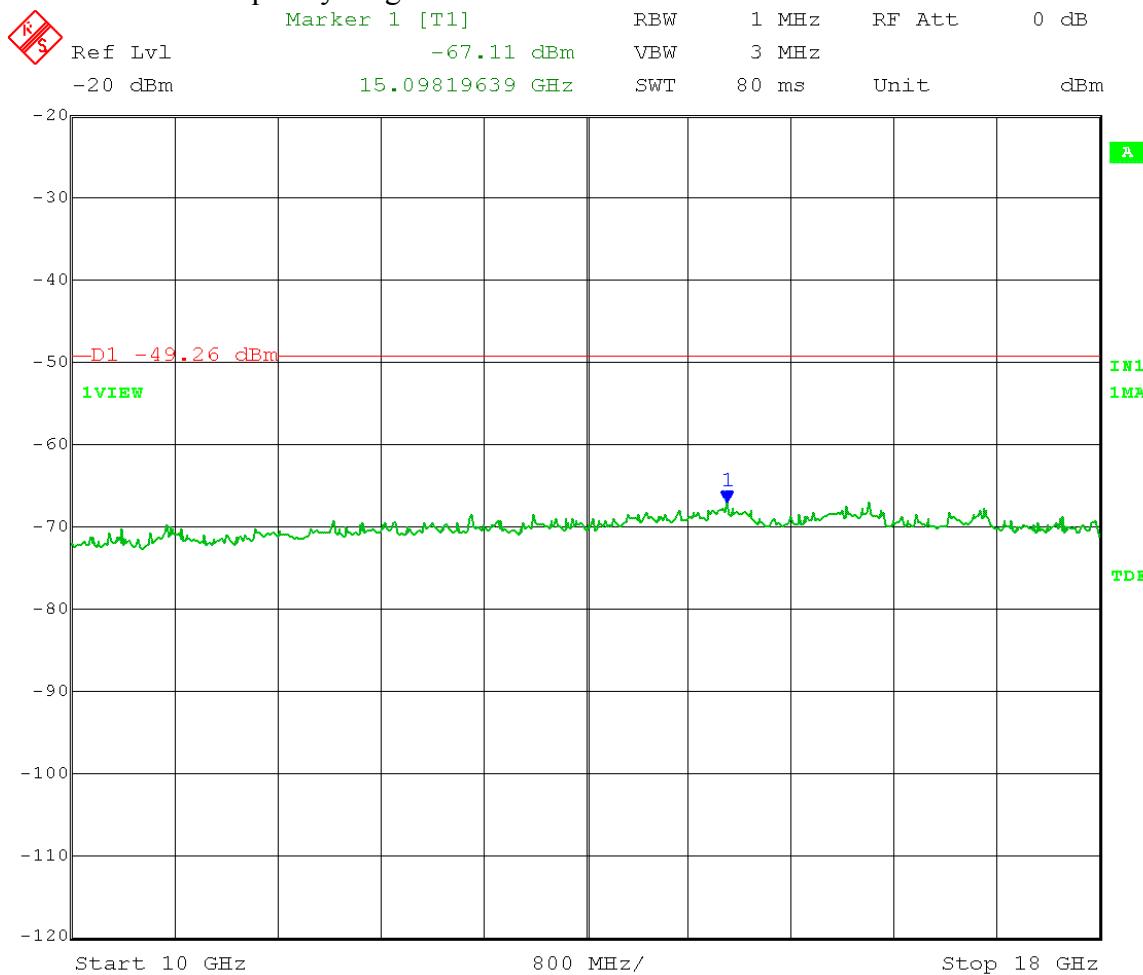
Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:21:36

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

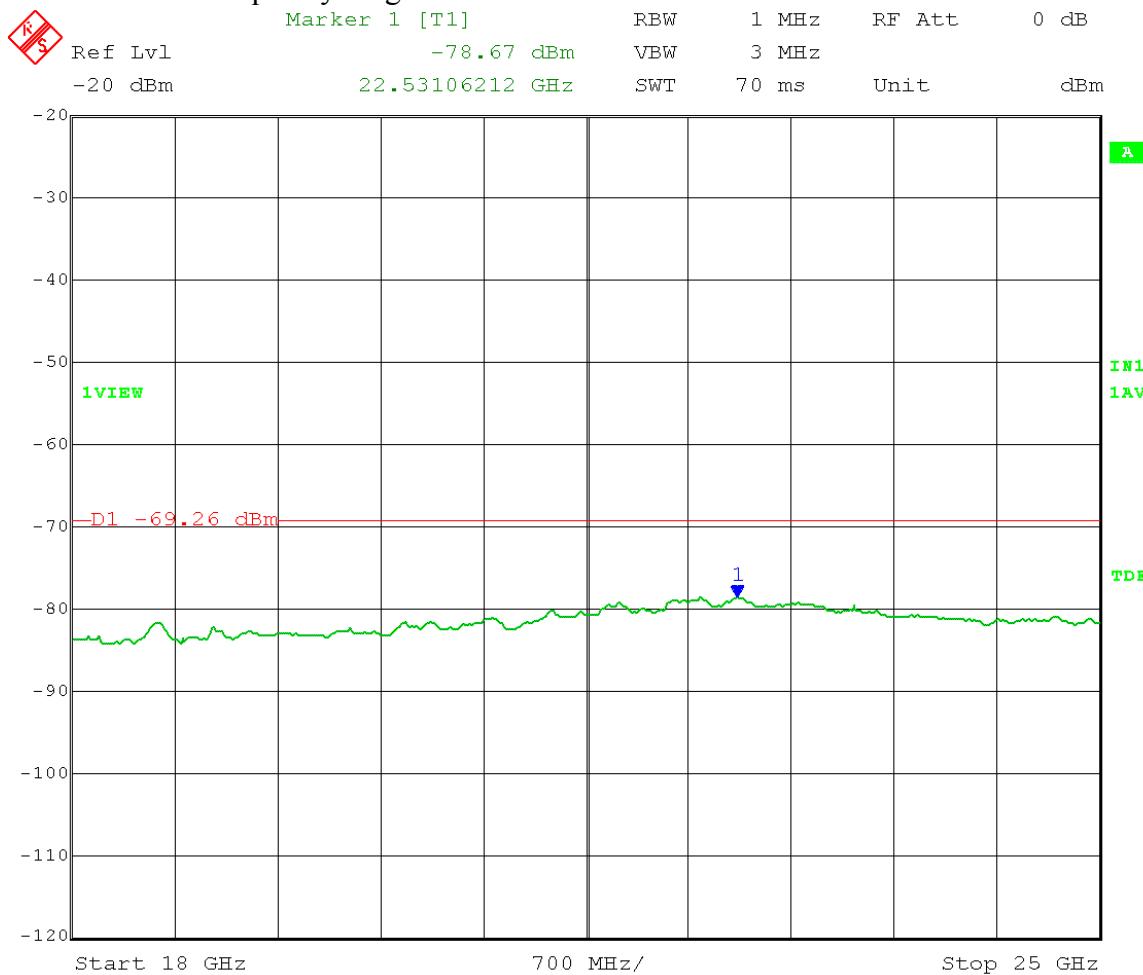
Frequency range: 10 – 18 GHz



Date: 14.MAR.2014 09:22:38

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -69.26 \text{ dBm}$

Frequency range: 18 – 25 GHz



Date: 14.MAR.2014 10:00:31

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak Sweep = Auto Couple
 Trace = Max Hold High Channel Transmit = 2452 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 6.5 (used for 17 dBi antenna gain)
 Antenna gain: 17, 19, or 25 dBi
 Channel bandwidth: 40 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -49.26 \text{ dBm}$



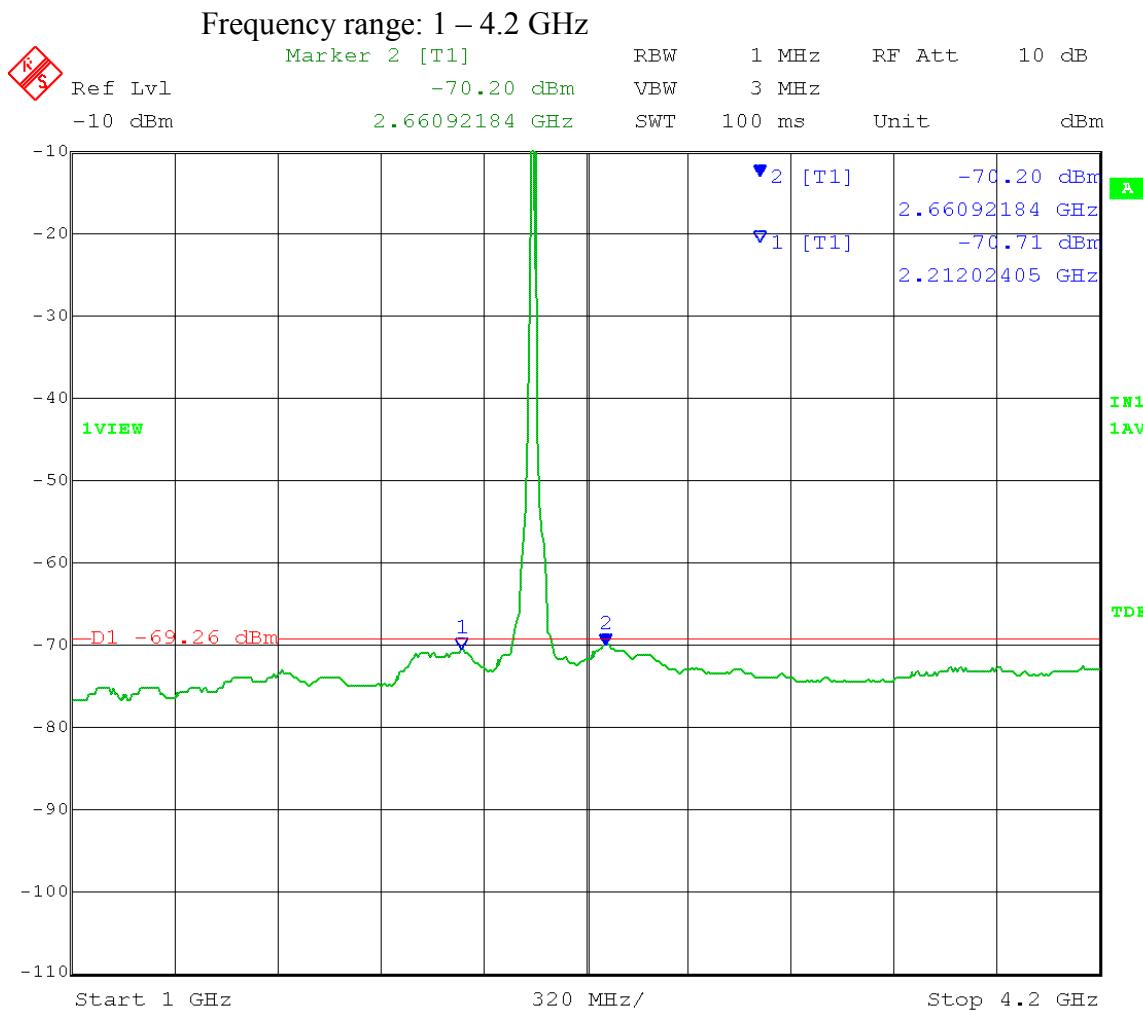
Date: 14.MAR.2014 10:01:44

Conducted Measurements for Radiated Restricted Band Compliance - 19 dBi Panel Antenna

**for 20MHz Channel Bandwidth
Low & High Channel data**

**See the notes with the
20MHz Channel Bandwidth
Low & High Channel data
for the
17 dBi Sector Antenna**

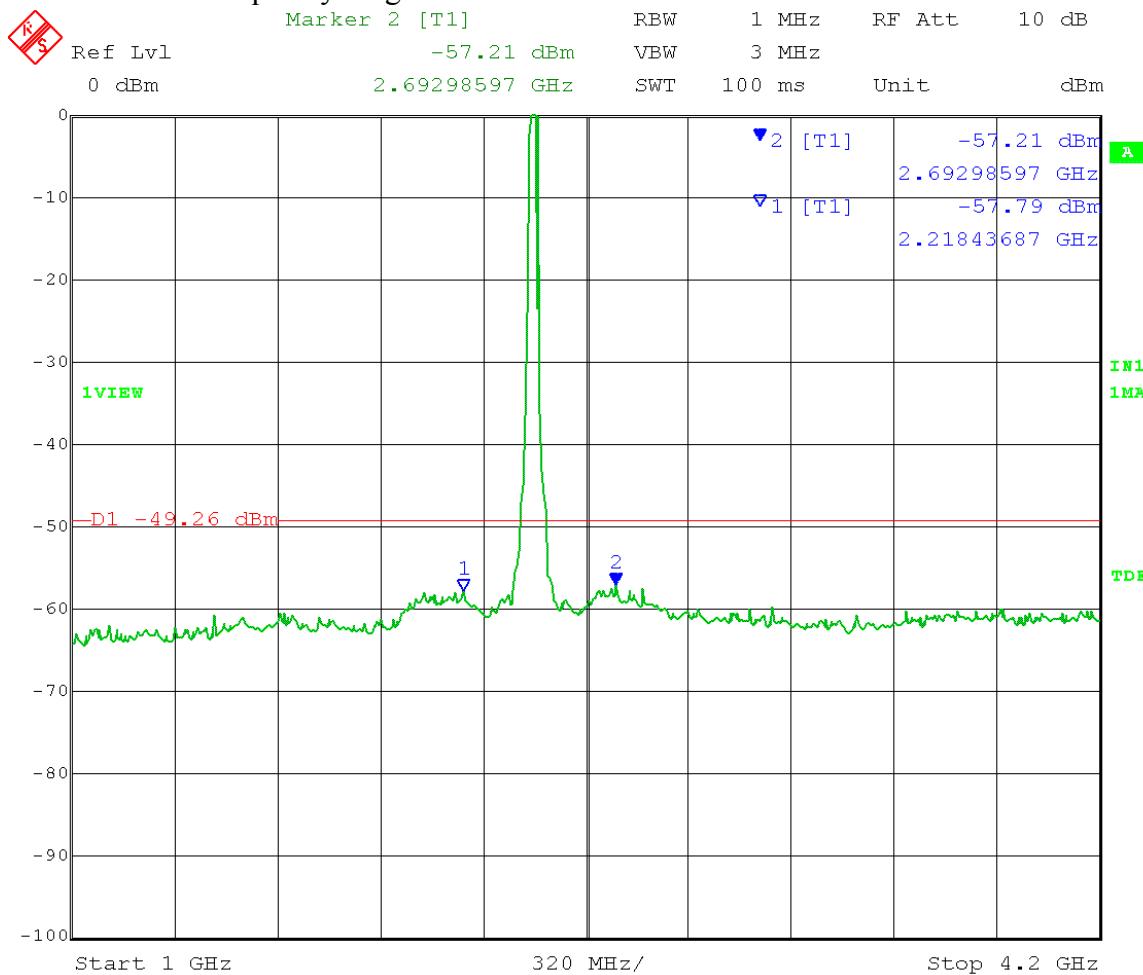
Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Average
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 15 (used for 19 dBi antenna gain)
 Antenna gain: 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Average limit = 54 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 $= 54 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi antenna gain} - 3 \text{ dB (MIMO operation)} = -69.26 \text{ dBm}$



Date: 15.MAR.2014 12:48:30

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Unwanted Emission Levels in Restricted Bands- Conducted
 Operator: Craig B
 Comment: RBW = 1 MHz VBW = 3 MHz
 Detector = Peak
 Trace = Max Hold Mid Channel Transmit = 2437 MHz
 Point-to-Point & Point-to-Multipoint operation
 Output Power Setting 15 (used for 19 dBi antenna gain)
 Antenna gain: 19, or 25 dBi
 Channel bandwidth: 20 MHz
 Output port: 1 OFDM MCS15
 Peak limit = 74 dB μ V/m at 3 meters
 Conducted limit (calculated using worst case antenna gain of 25 dBi)
 = $74 + 20\log(3 \text{ meters}) - 104.8 - 25 \text{ dBi}$ antenna gain – 3 dB (MIMO operation) = -49.26 dBm

Frequency range: 1 – 4.2 GHz



Date: 15.MAR.2014 12:51:27

Conducted Measurements for Radiated Restricted Band Compliance - 19 dBi Panel Antenna

**for 20MHz Channel Bandwidth
Mid Channel data,
30 to 1000 MHz
&
4.2 to 25 GHz**

**See the notes with the
20MHz Channel Bandwidth
Mid Channel data
for the
17 dBi Sector Antenna,
30 to 1000 MHz
&
4.2 to 25 GHz**

Conducted Measurements for Radiated Restricted Band Compliance - 25 dBi Dish Antenna

**for 20MHz Channel Bandwidth
Low & High Channel data:**

See the notes with the 20MHz Channel Bandwidth Low & High Channel data for the 17 dBi Sector Antenna

**for 20MHz Channel Bandwidth
Mid Channel data:**

See the notes with the 20MHz Channel Bandwidth Mid Channel data for the 19 dBi Panel Antenna

Conducted Measurements for Radiated Restricted Band Compliance - 25 dBi Dish Antenna

for 40MHz Channel Bandwidth

**See the notes with the
40MHz Channel Bandwidth data
for the
17 dBi Sector Antenna**



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

Appendix B – Measurement Data

B9.0 Radiated Restricted Band-Edge Compliance - radiated with Omni & Patch Antennas

Rule Section: FCC 15.205

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

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.

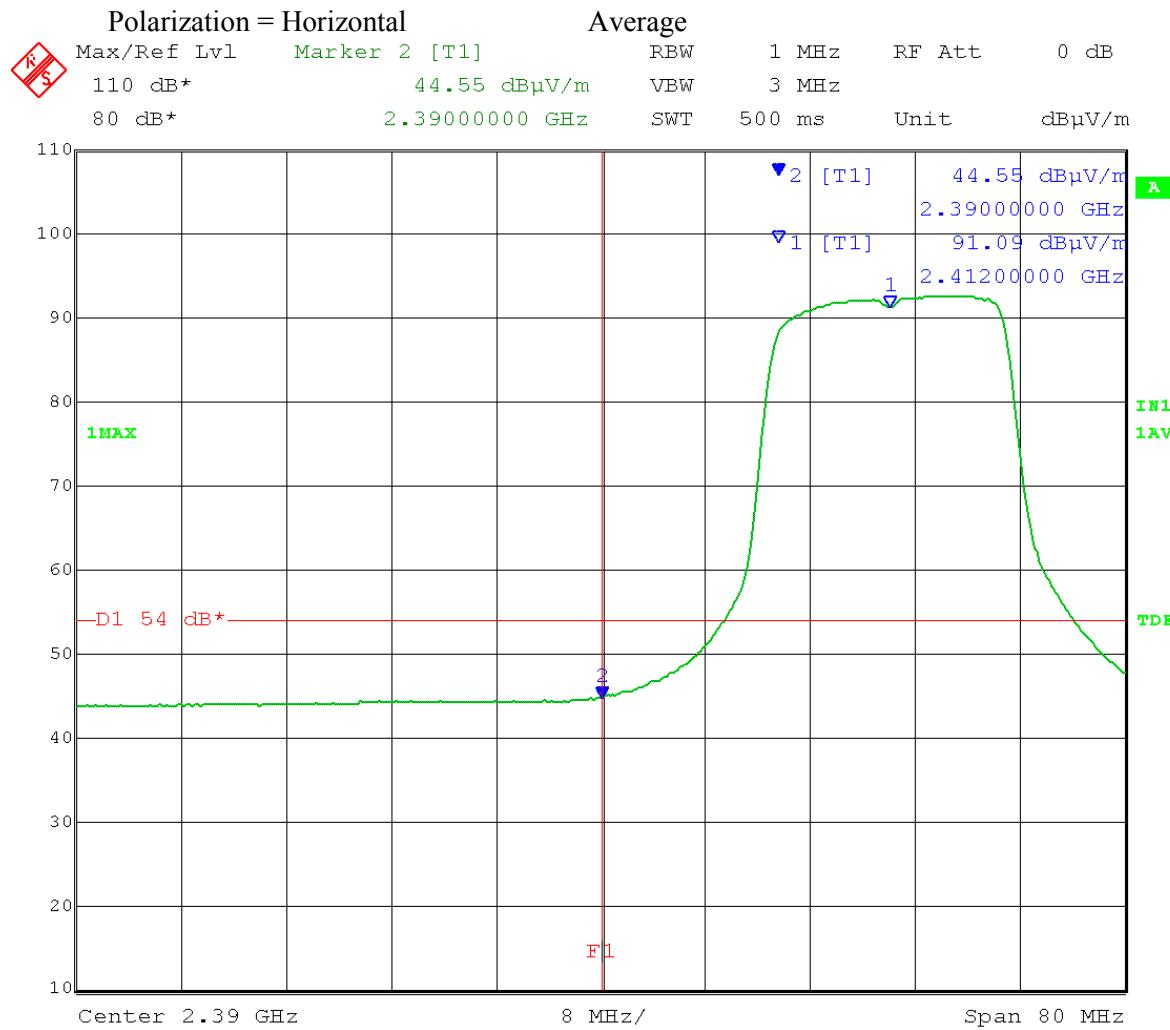
Limit: FCC Part 15.209

Results: Passed

Notes: Tested while transmitting from antennas. Both transmit chains were active during this test.

Test Date: 03-04-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Band-Edge Measurements – Radiated from integral antenna
Operator: Craig B

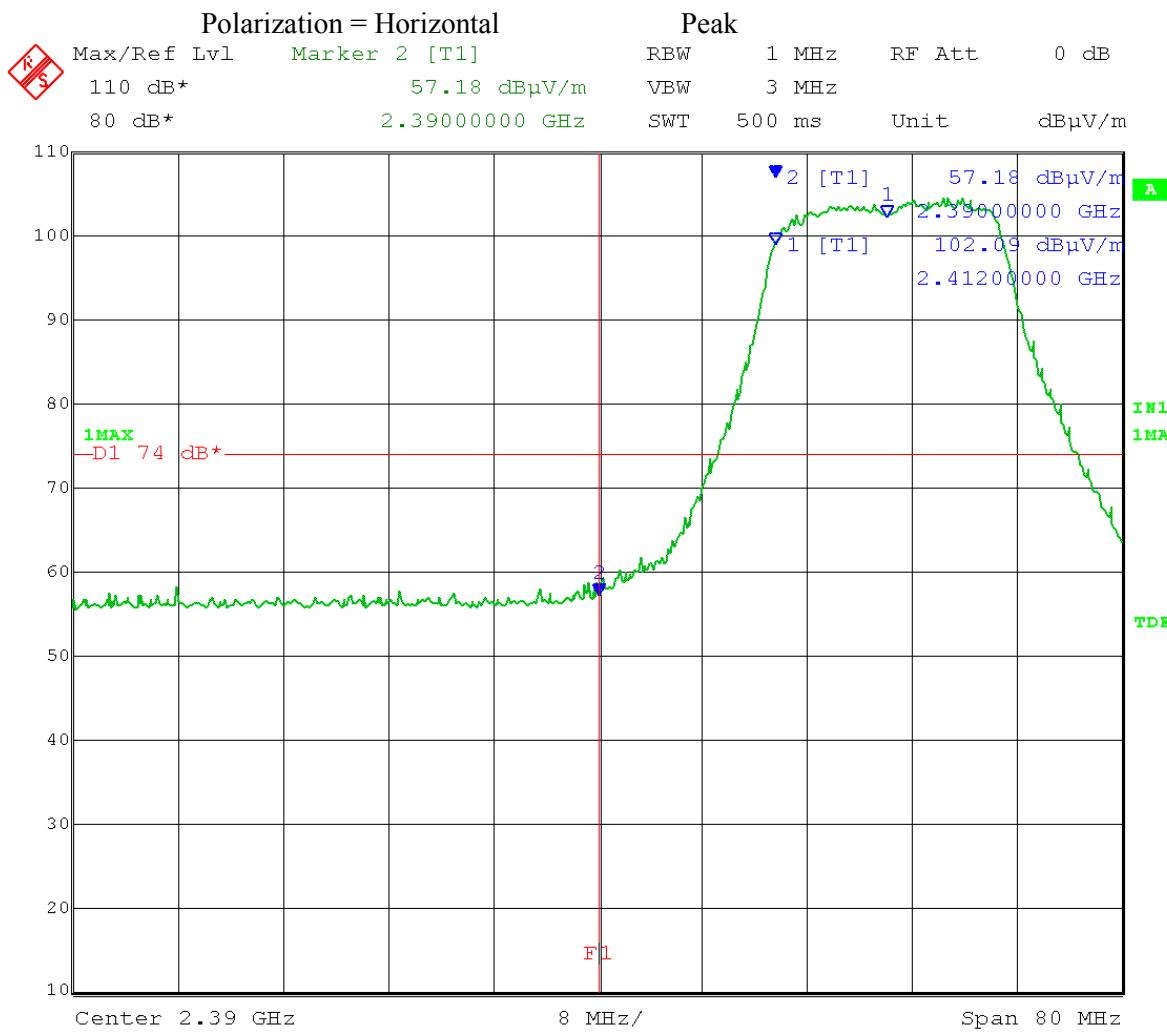
Comment: RBW = 1MHz
VBW \geq 3MHz
Detector = Average
Trace mode = max hold
Low Channel Transmit = 2.412 GHz
Test software power setting: 18
20 MHz CH BW Both chains 0 and 1 active
Lower Restricted Band-Edge Frequency = 2.390 GHz
Average Limit = 54 dBuV/m
Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:59:59

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

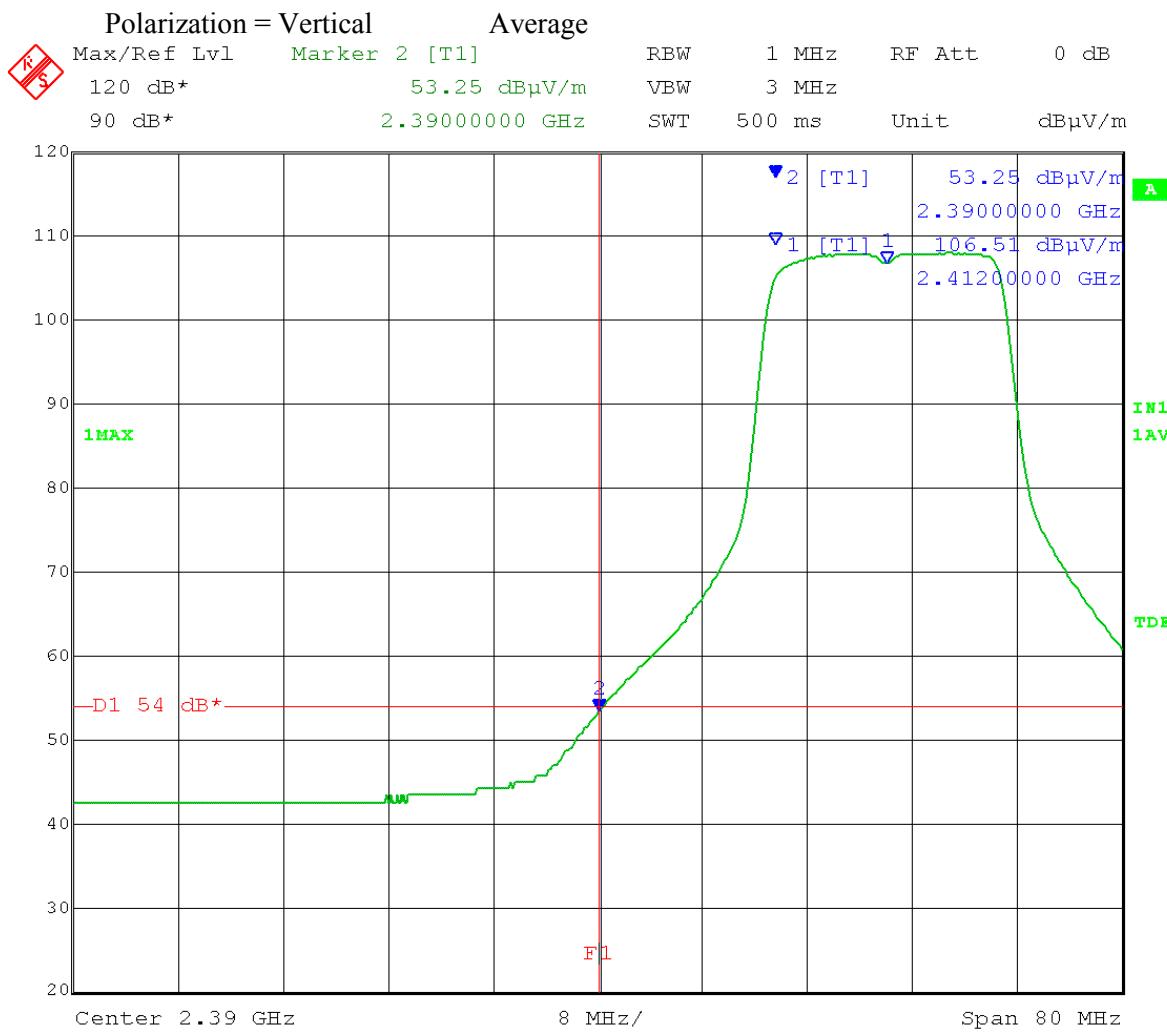
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 14:01:07

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

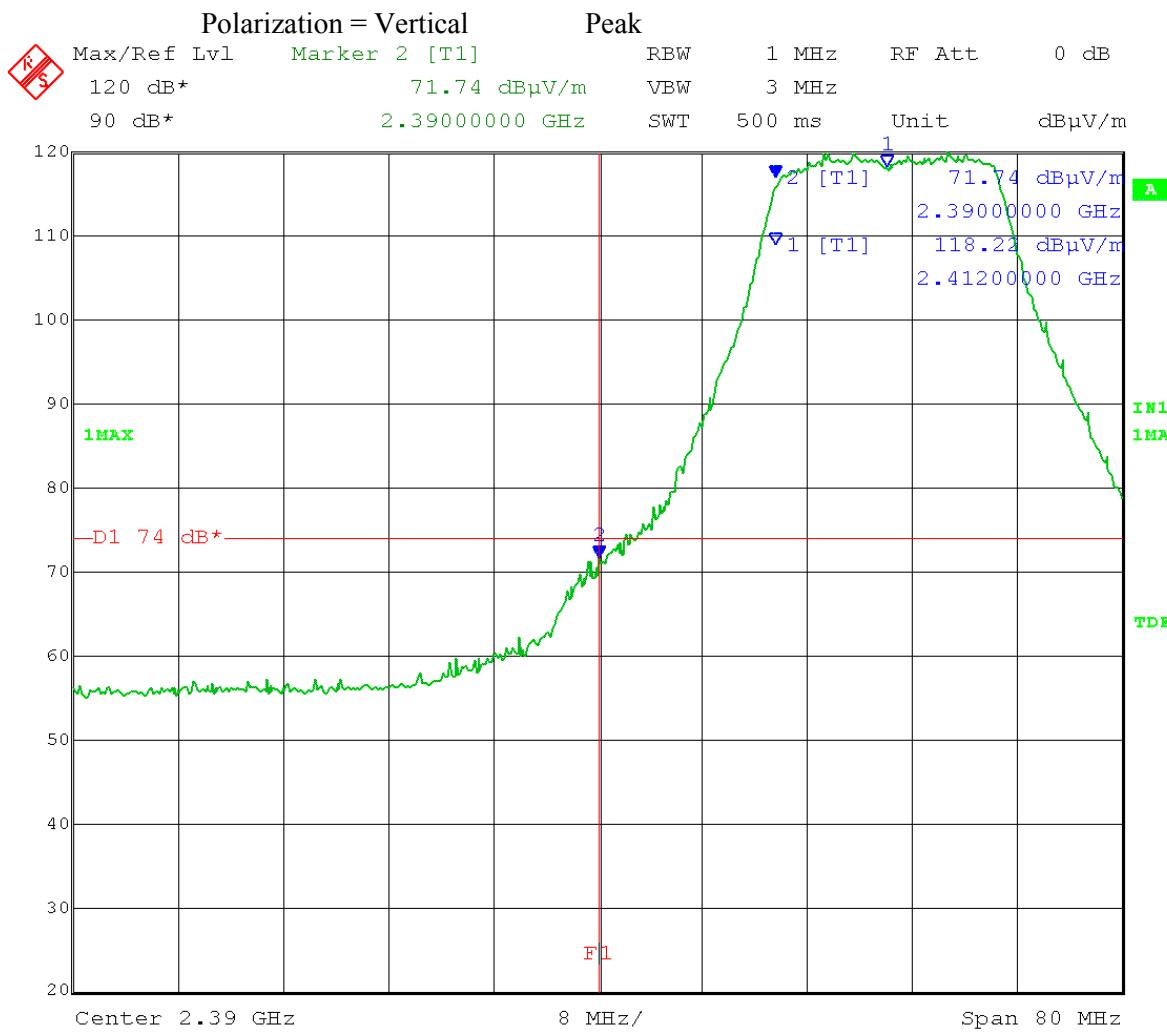
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:57:05

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

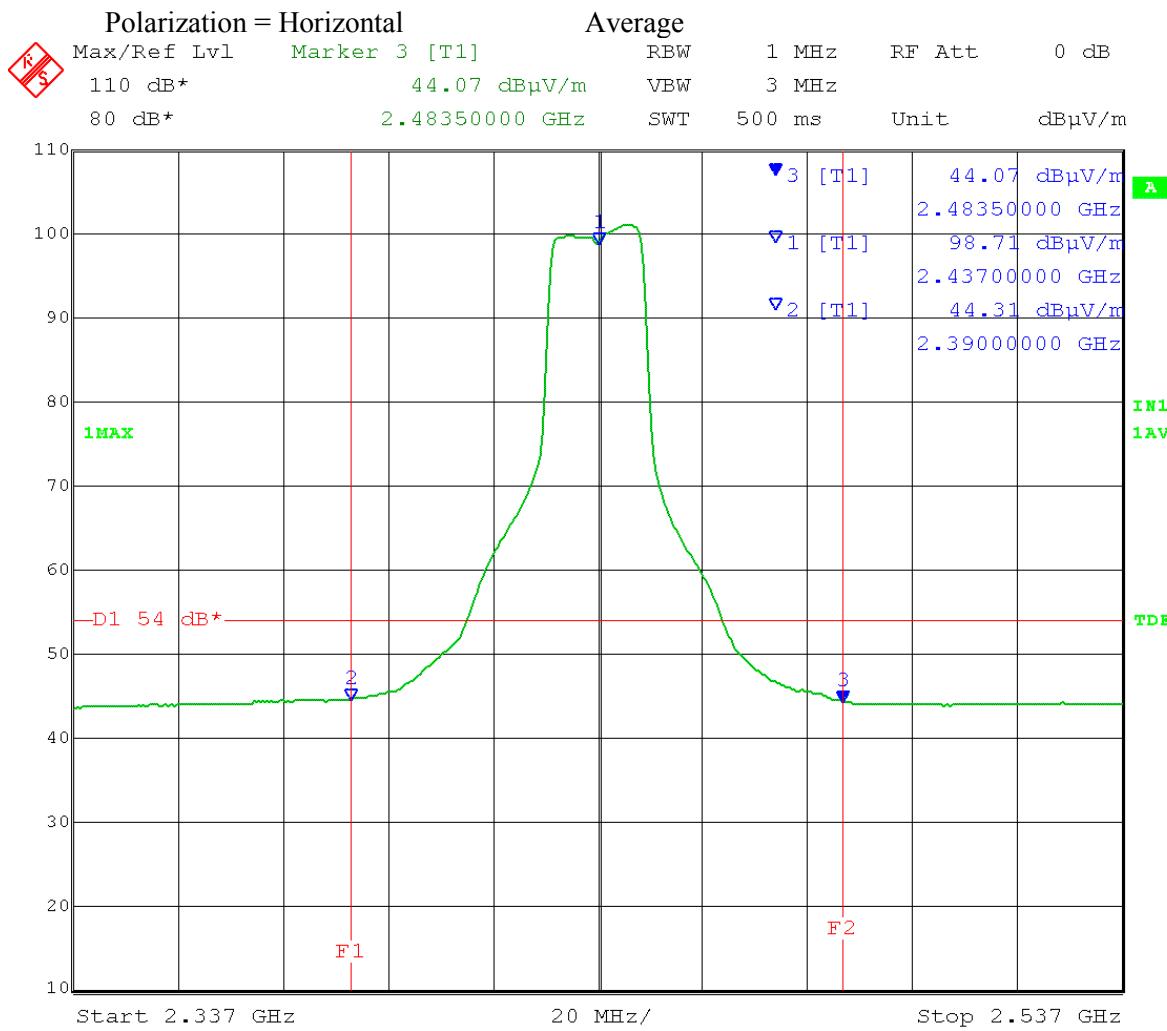
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:59:17

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

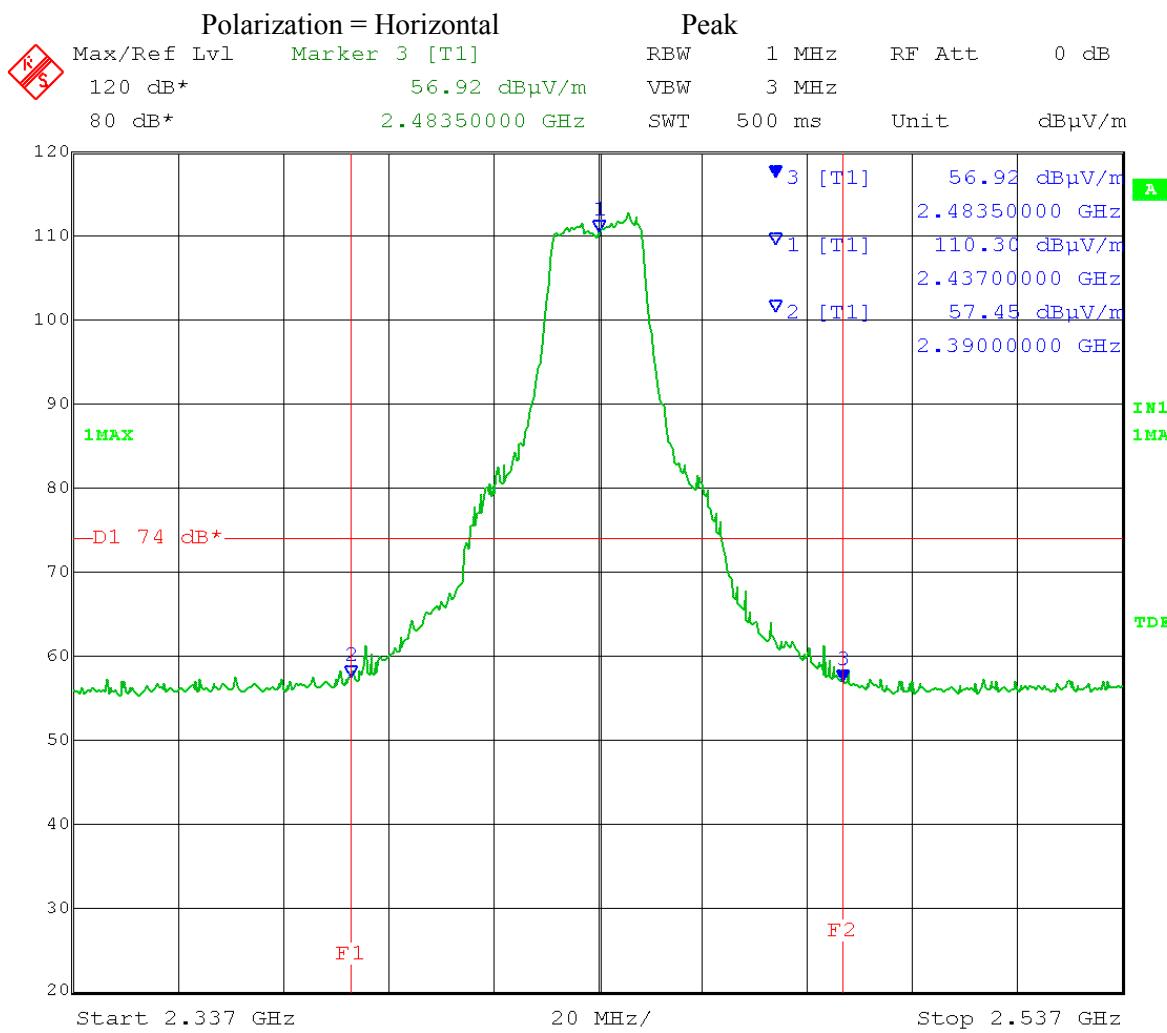
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 26.5
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 14:10:46

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

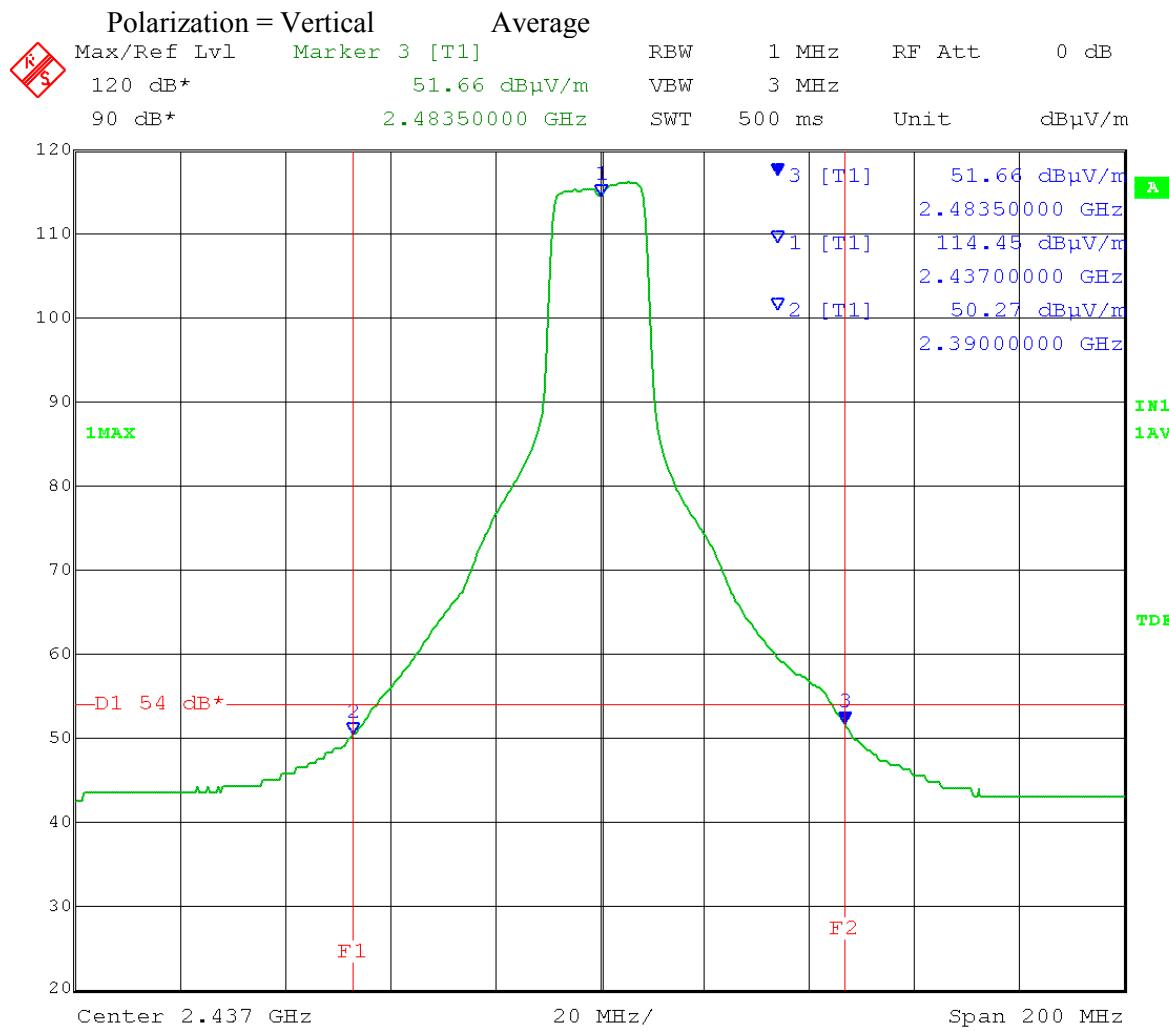
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 26.5
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 14:11:48

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

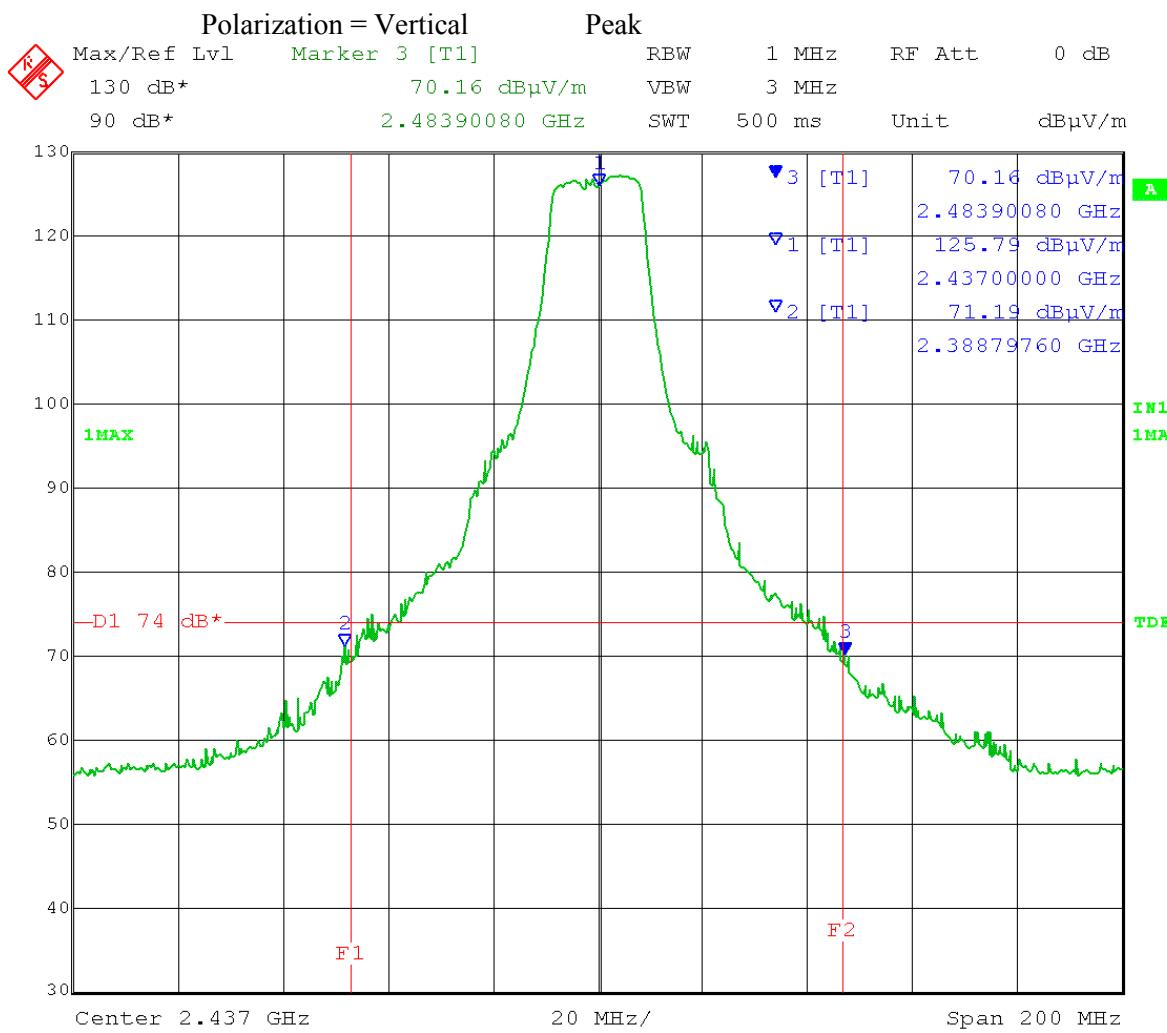
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 26.5
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:47:52

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

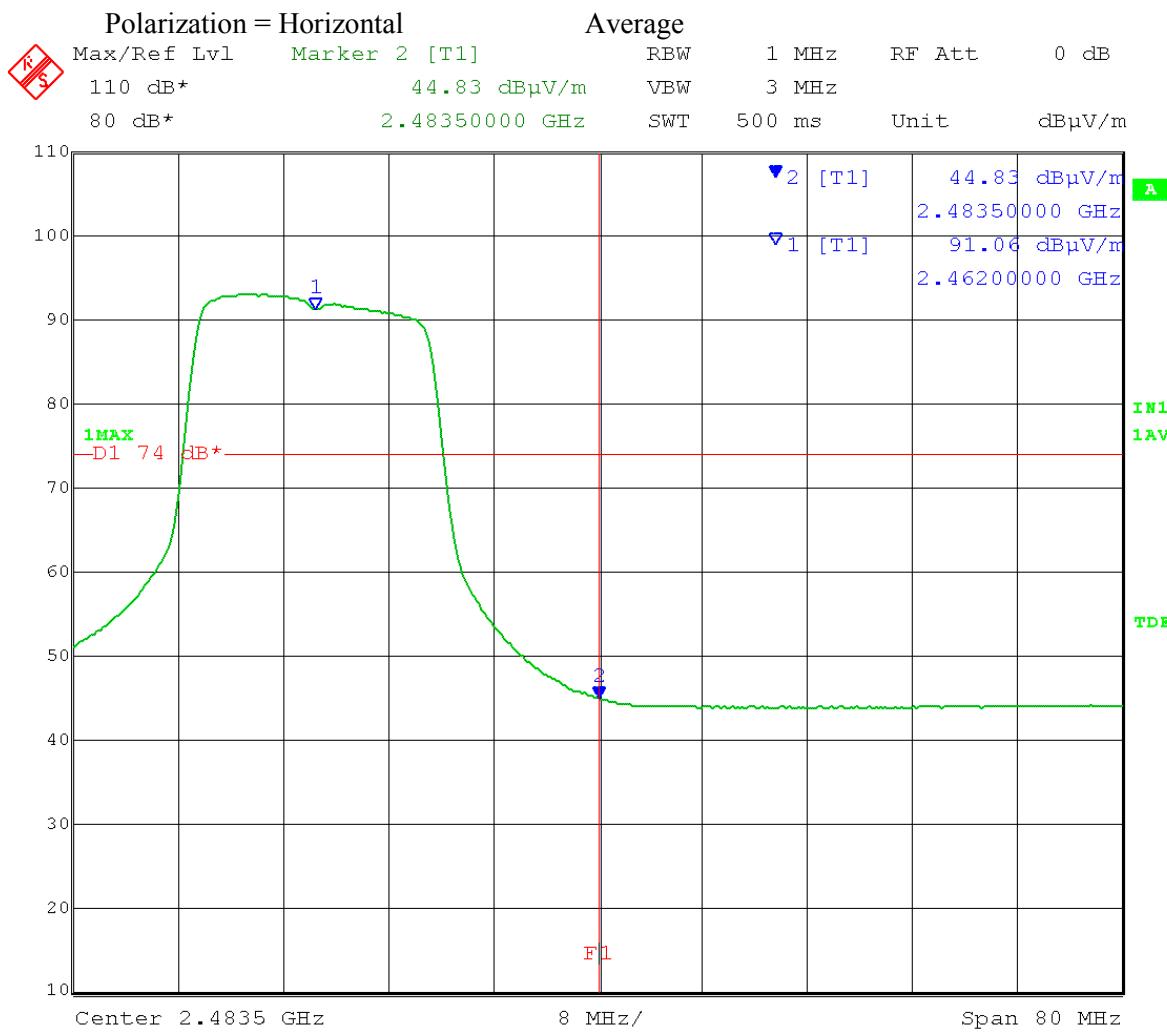
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 26.5
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:50:29

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

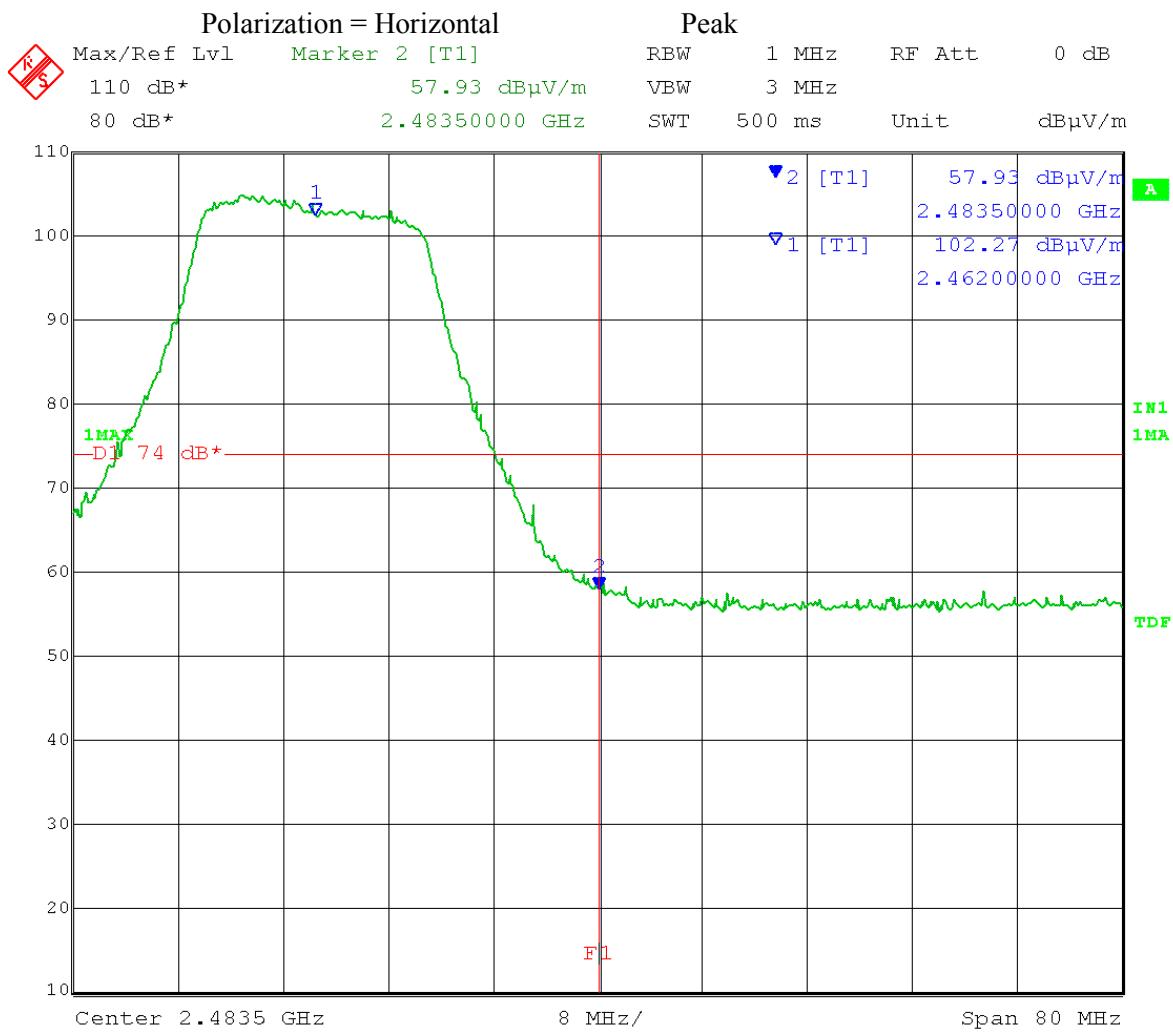
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:55:07

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

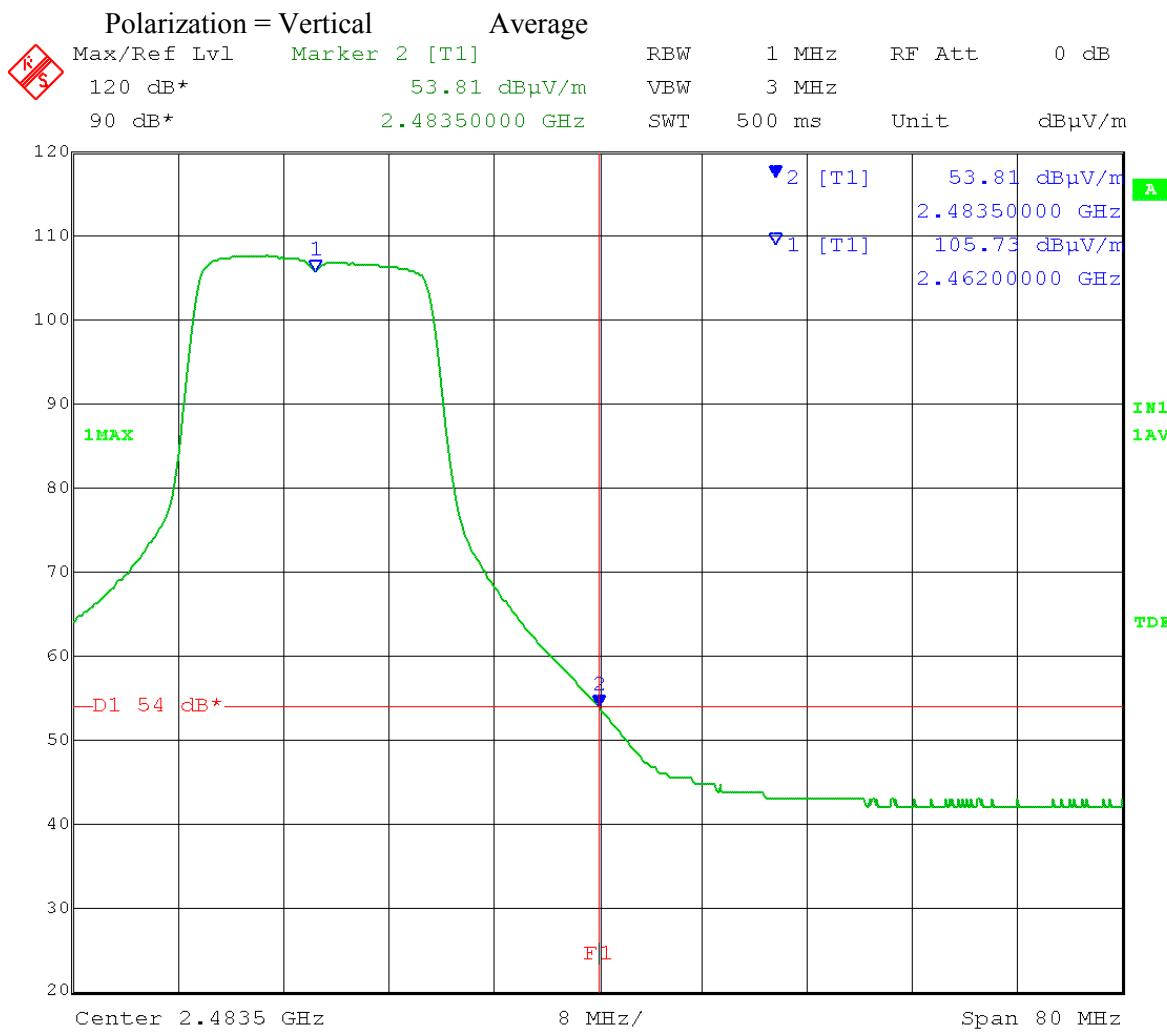
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:56:10

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

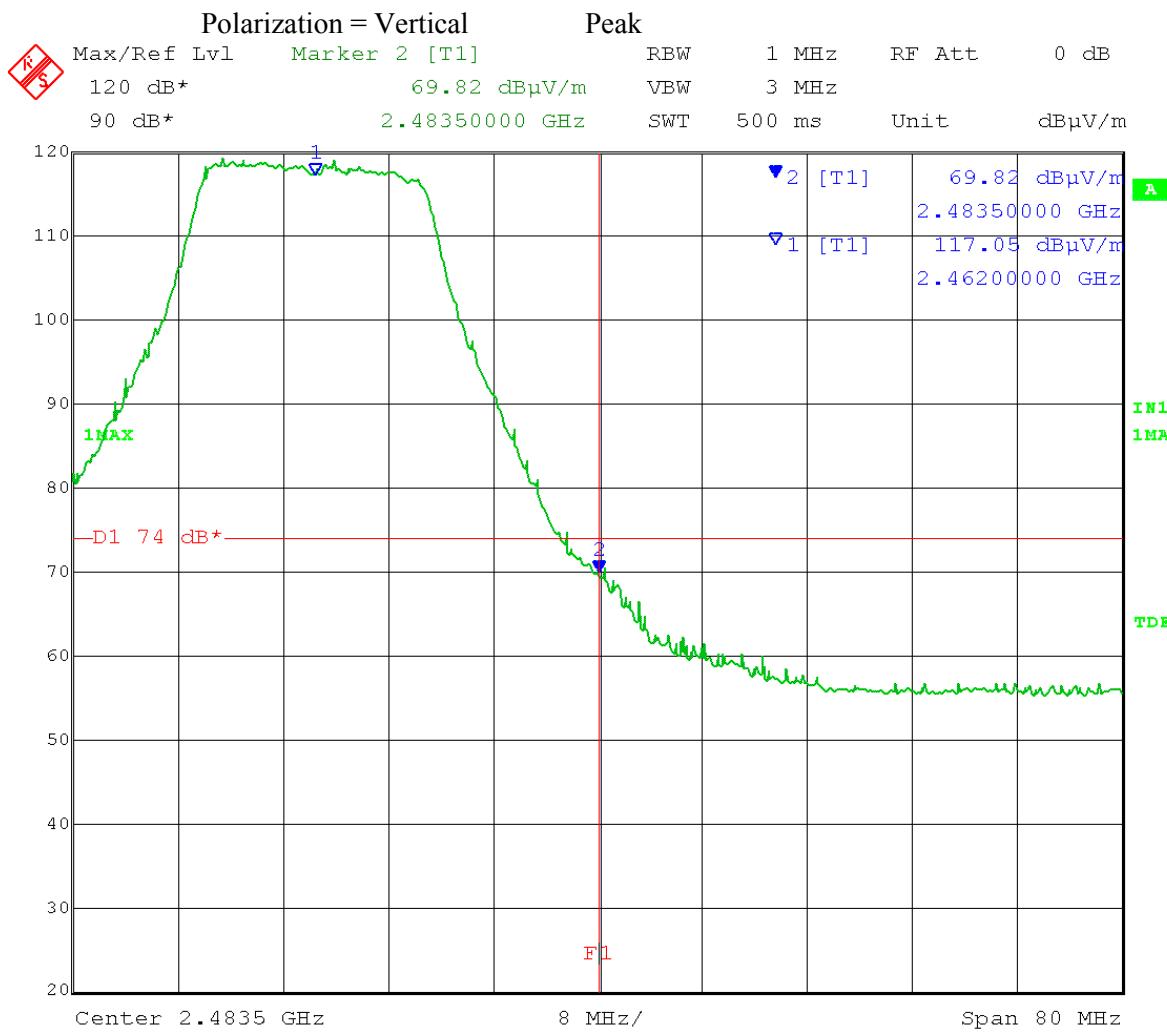
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:22:53

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

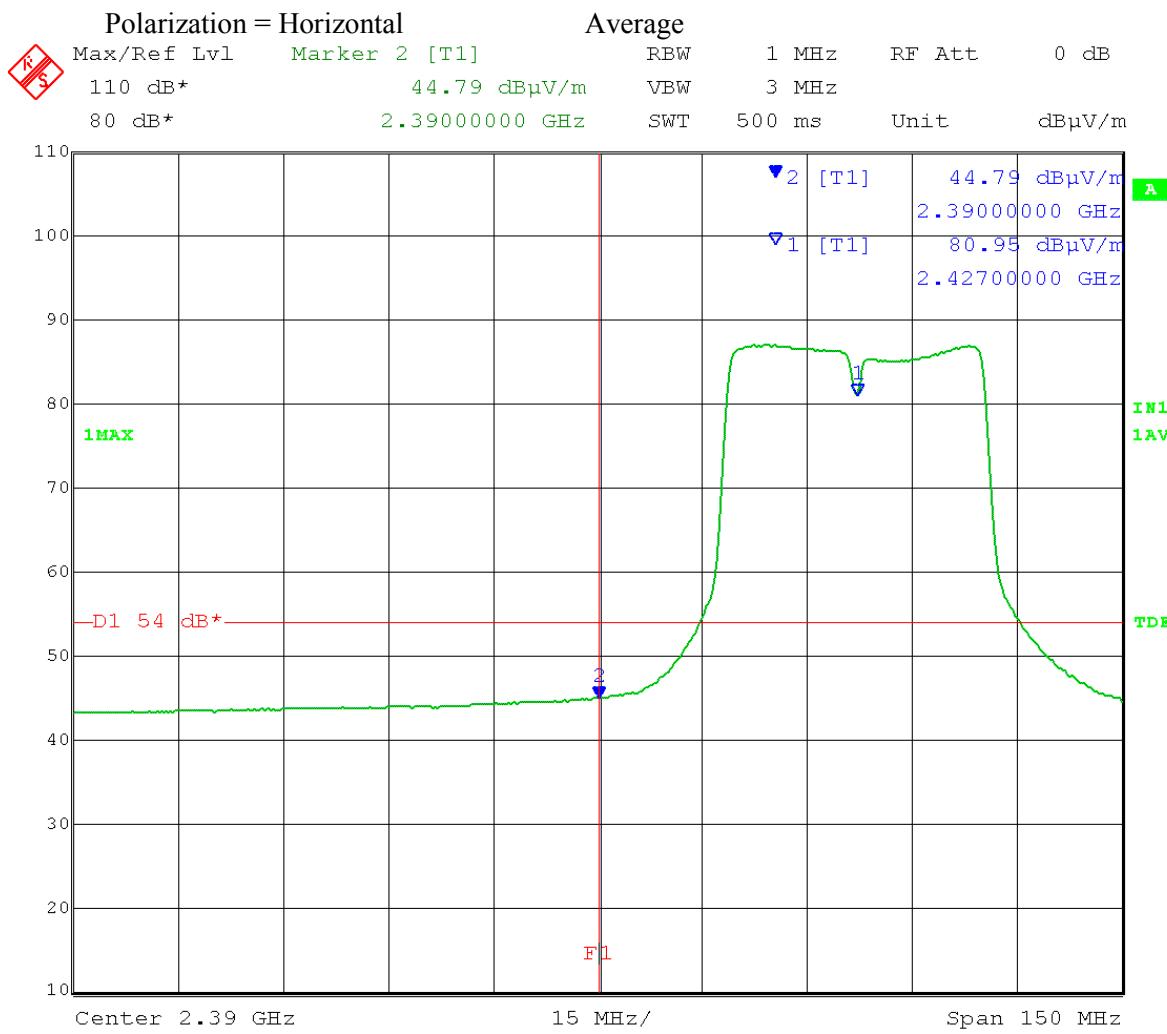
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 18
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:24:32

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

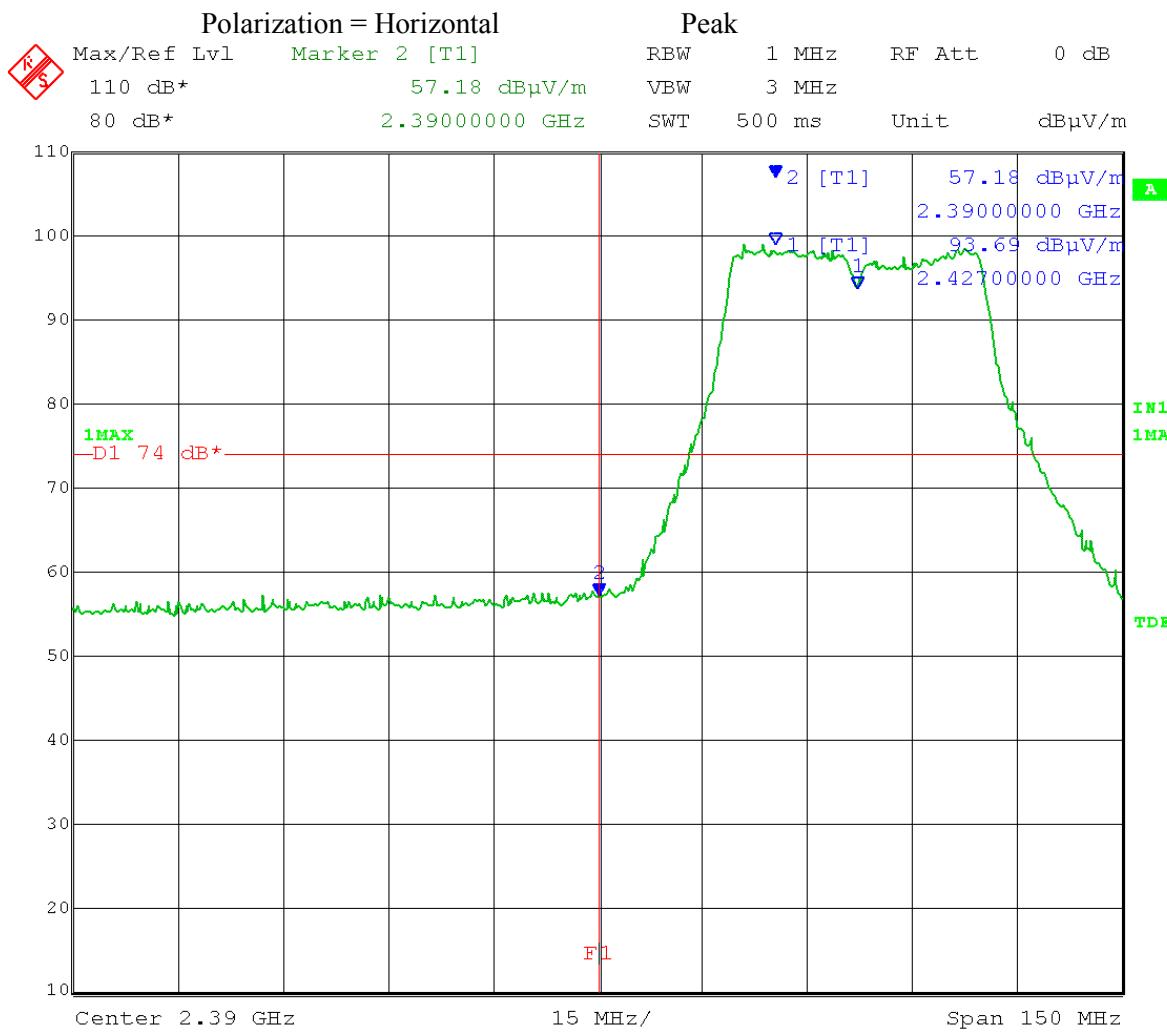
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 14:03:23

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

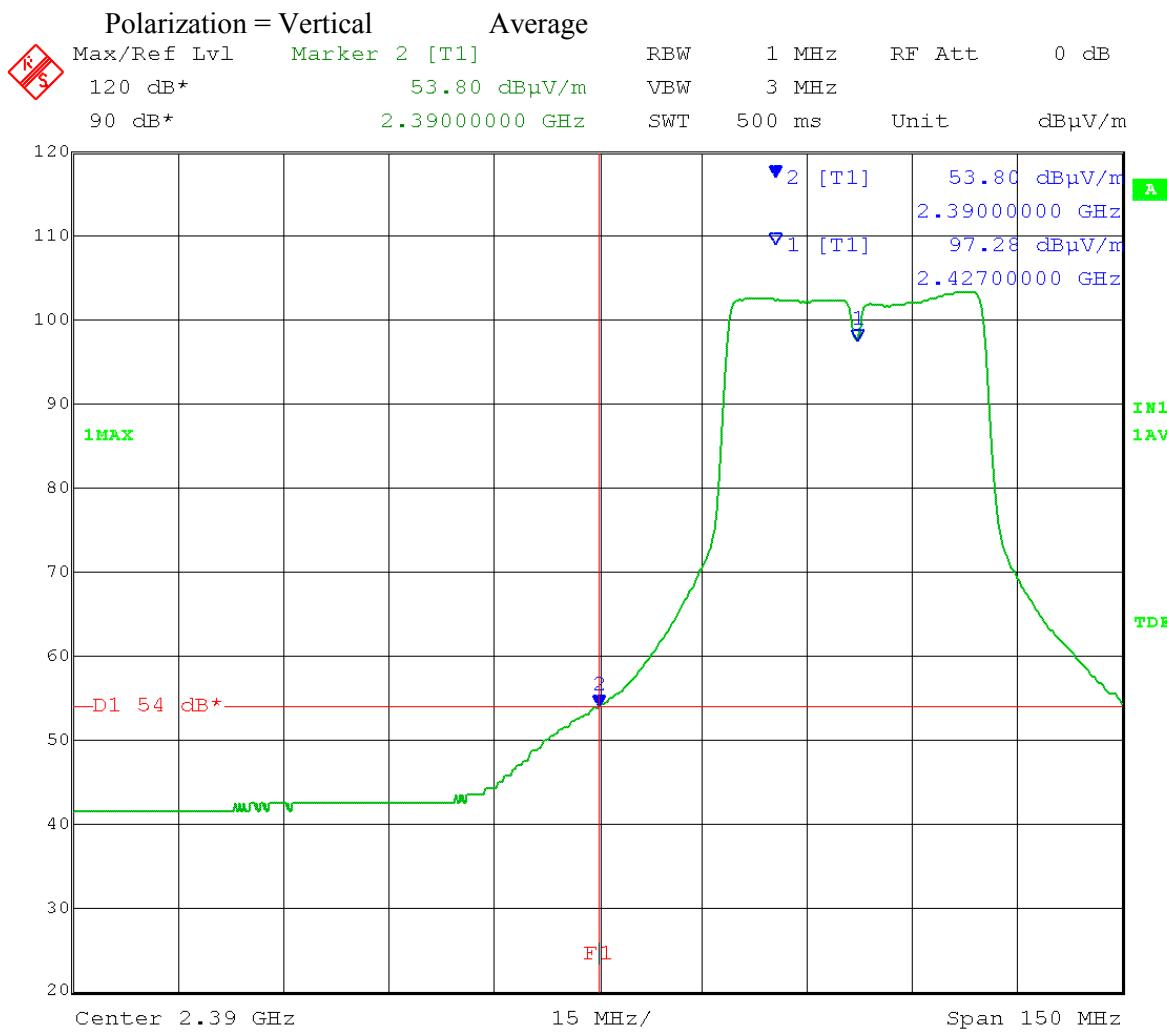
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 14:04:18

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

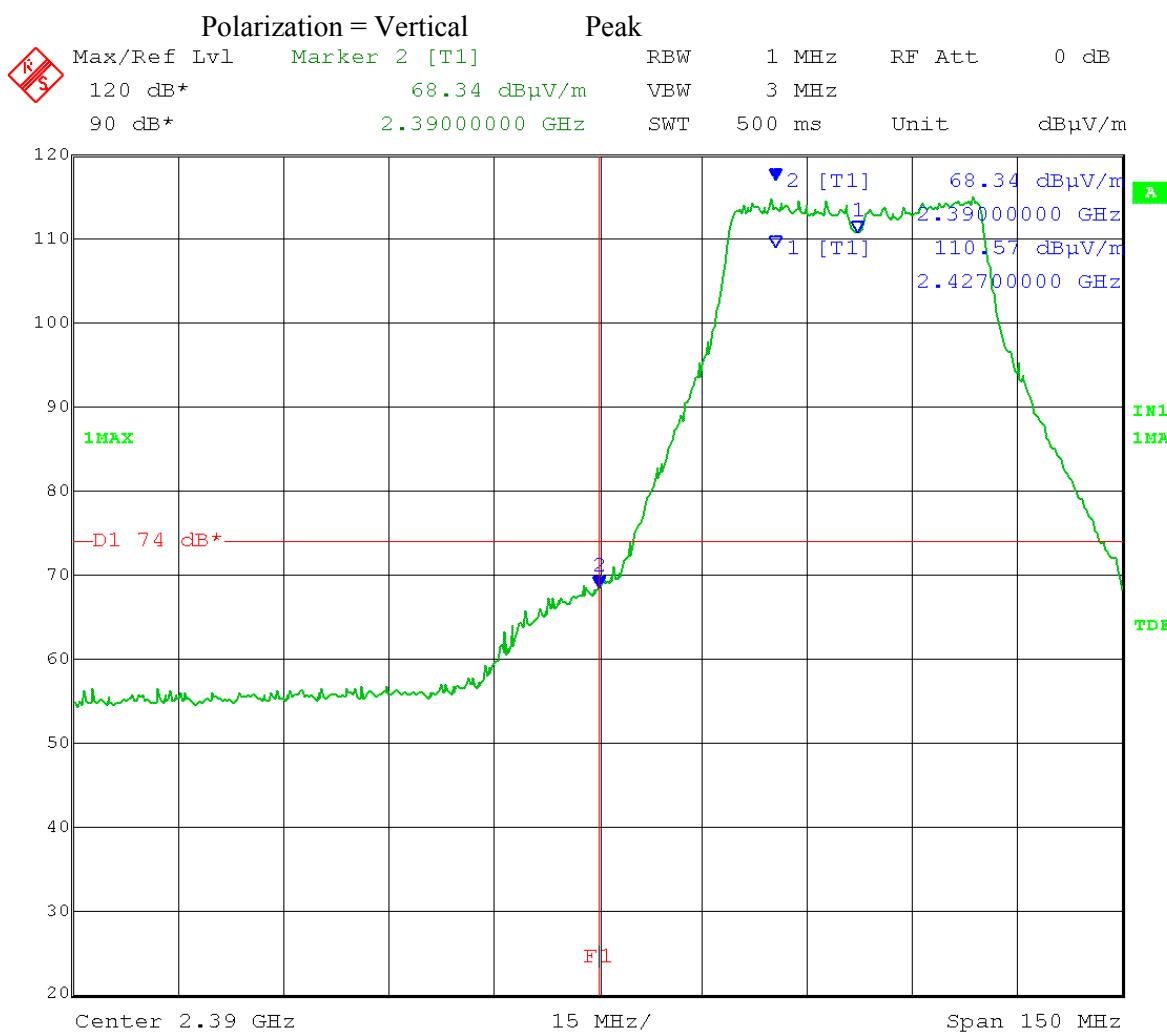
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:07:34

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

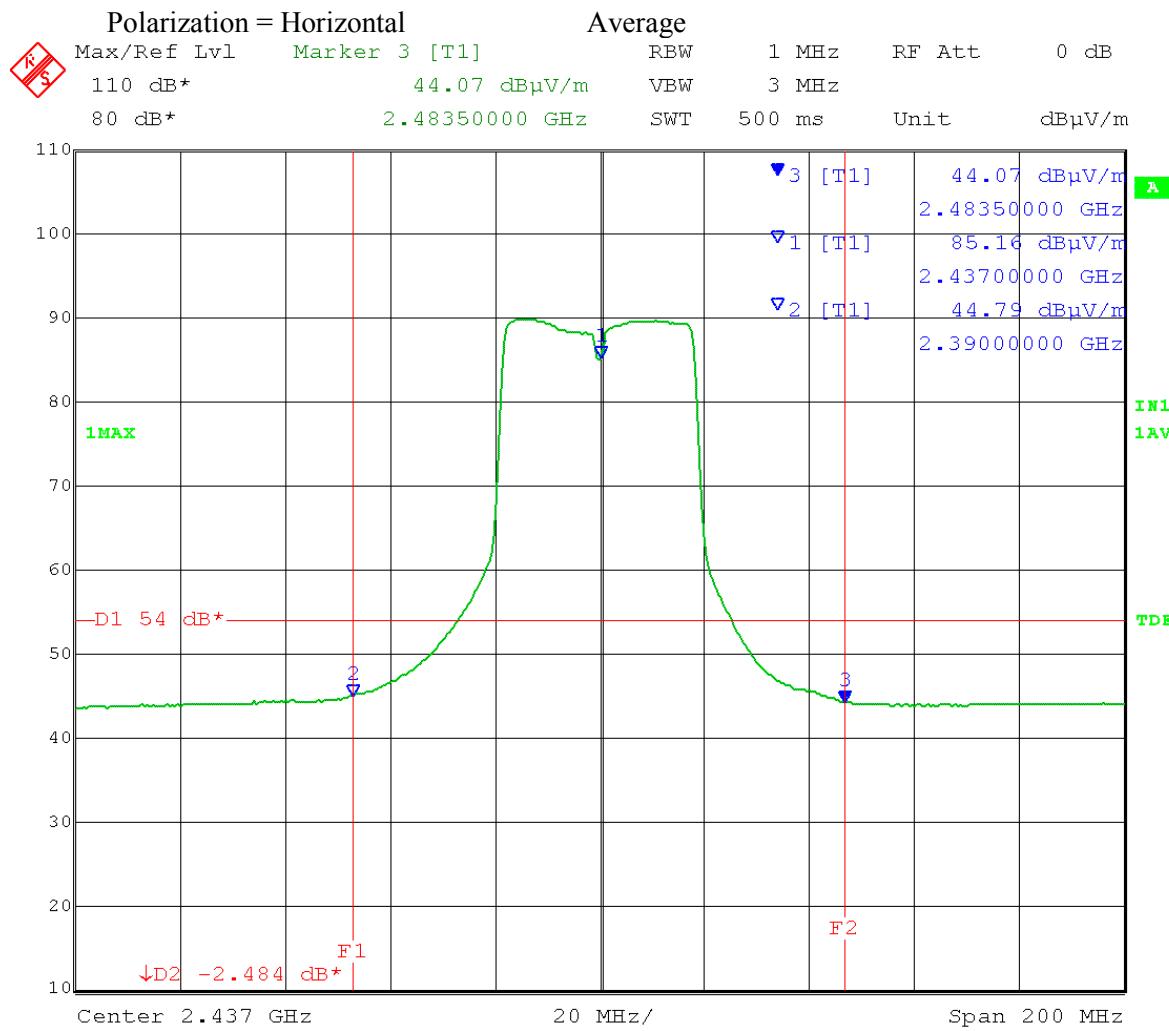
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:09:18

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

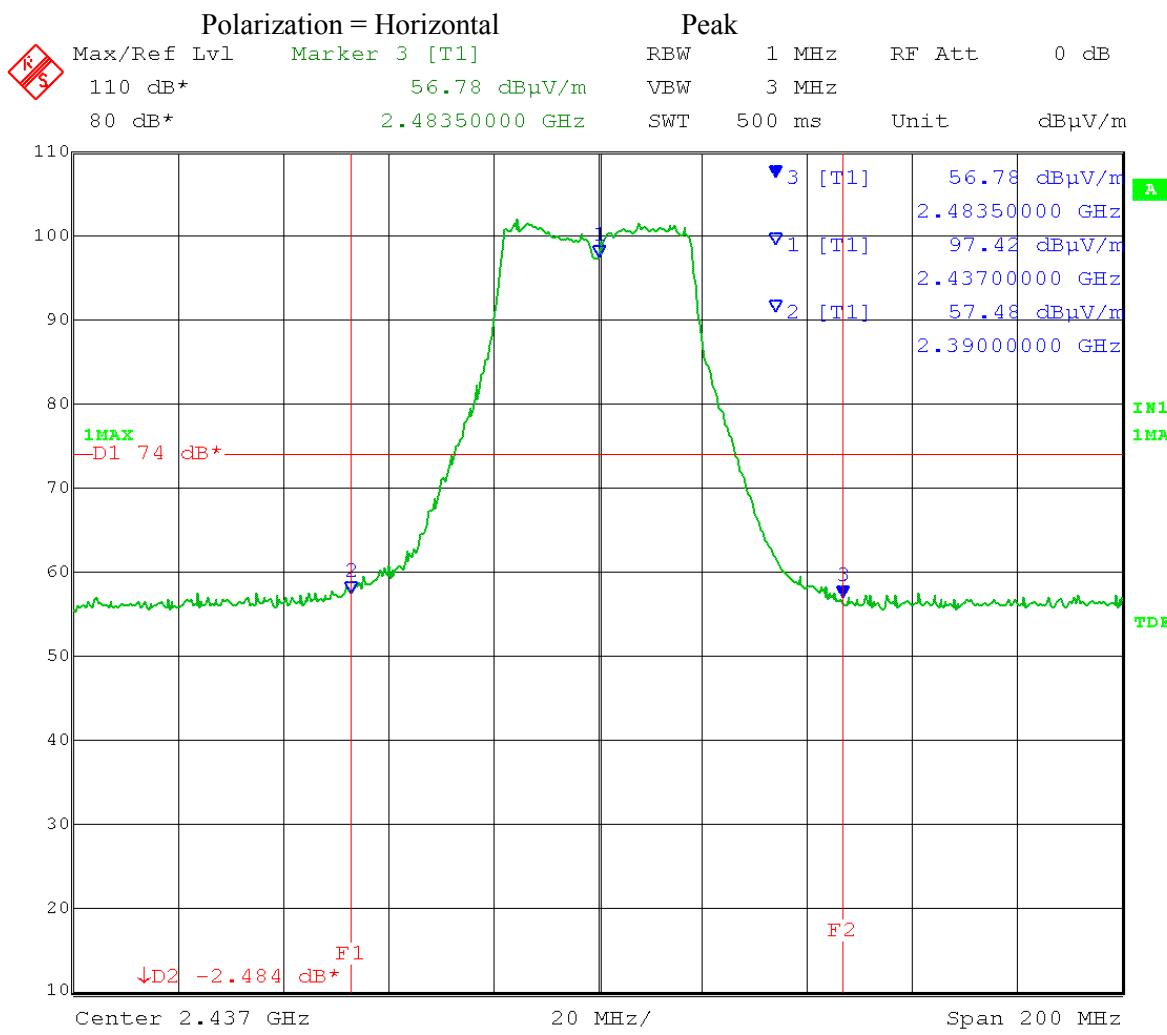
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 18
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:32:14

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

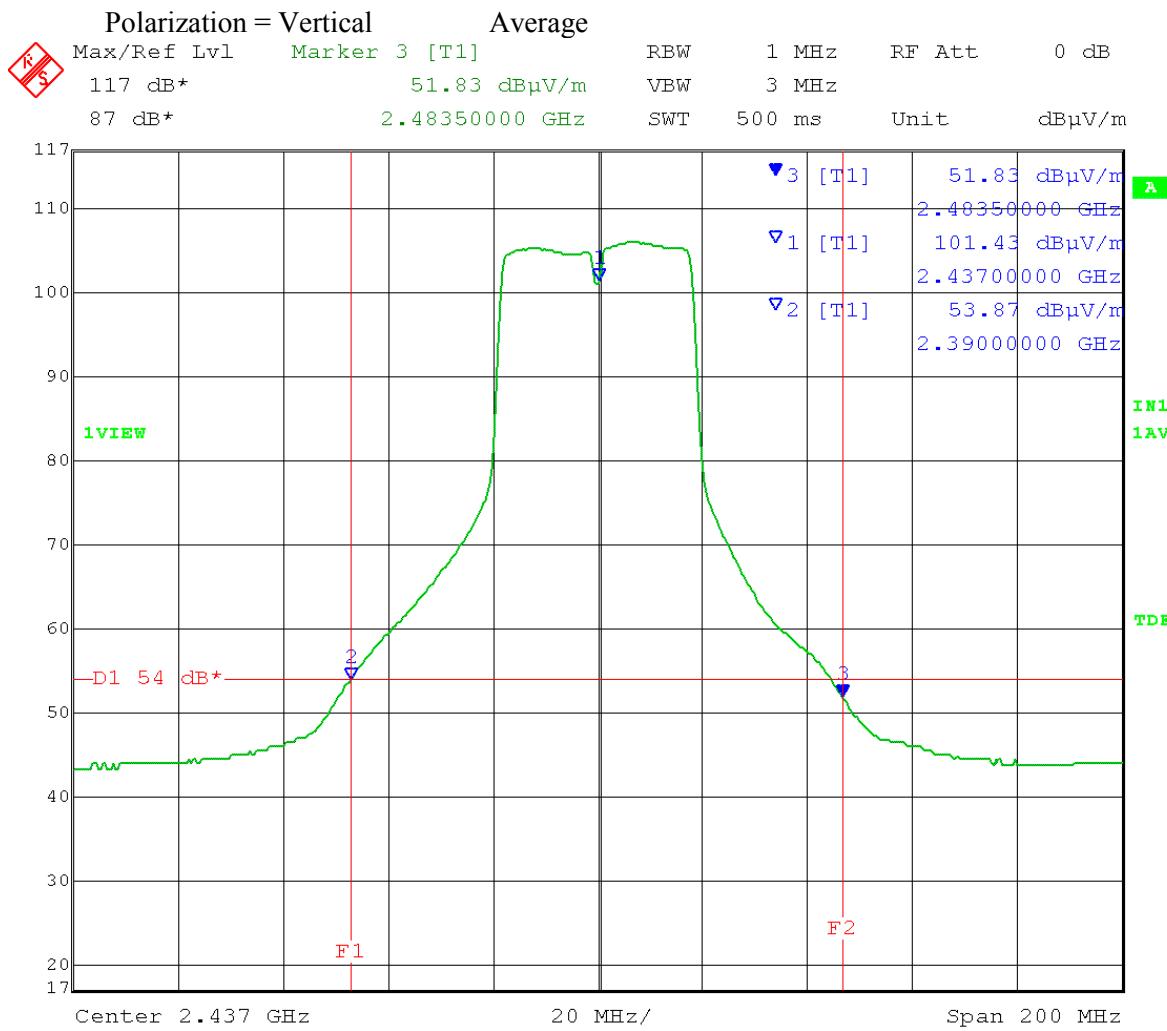
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 18
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:33:34

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

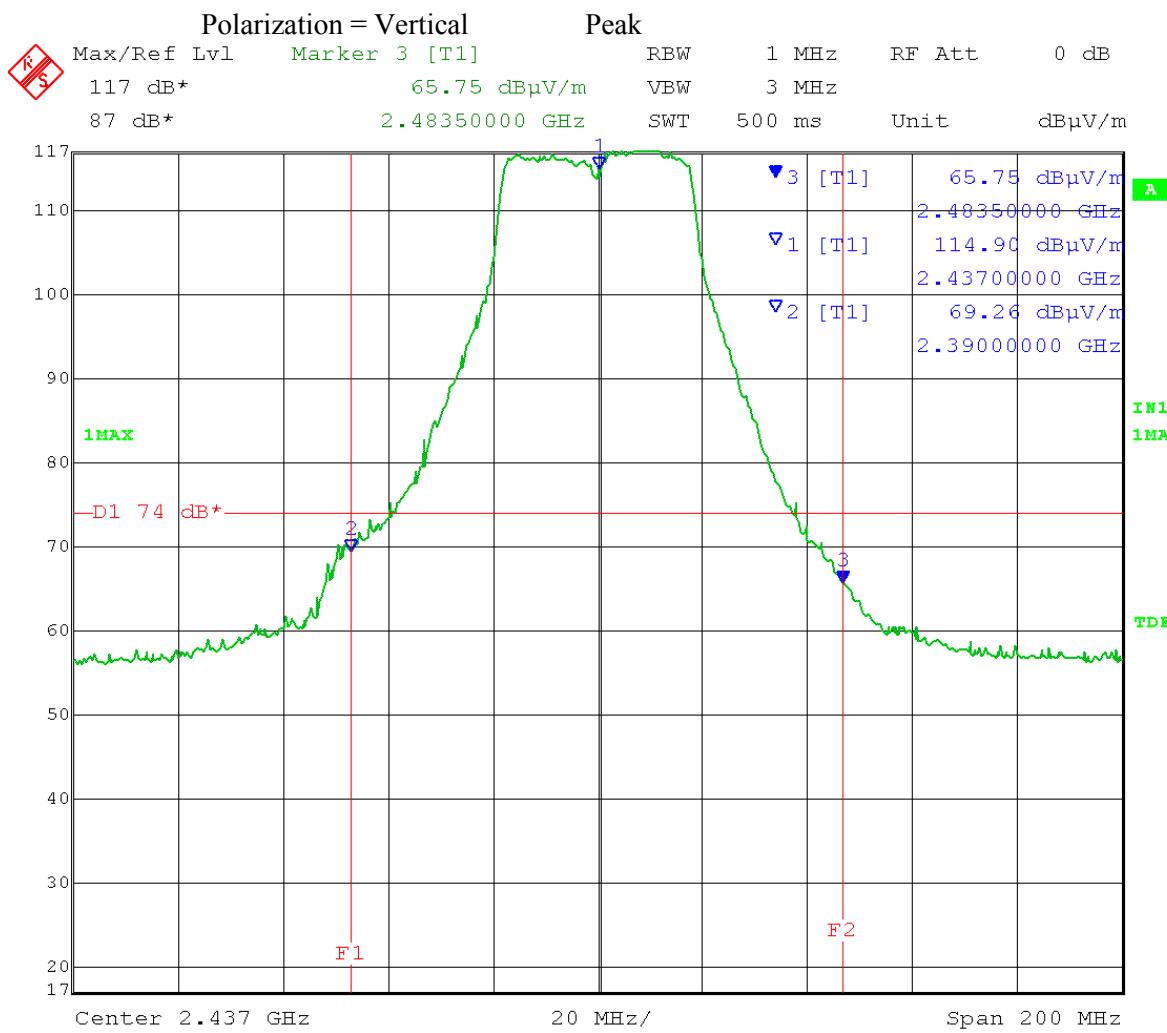
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 18
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:33:57

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

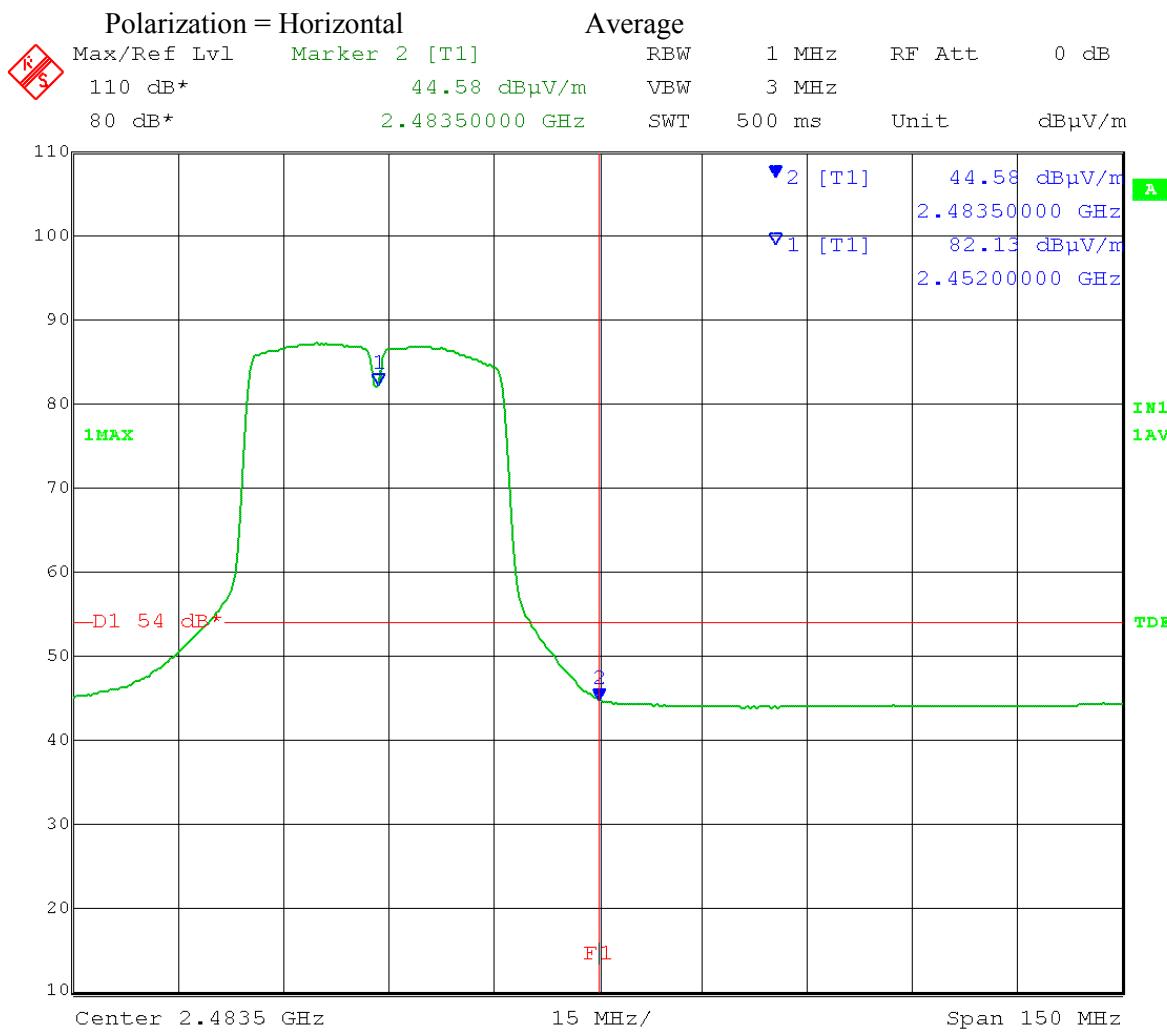
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 18
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 12:36:01

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

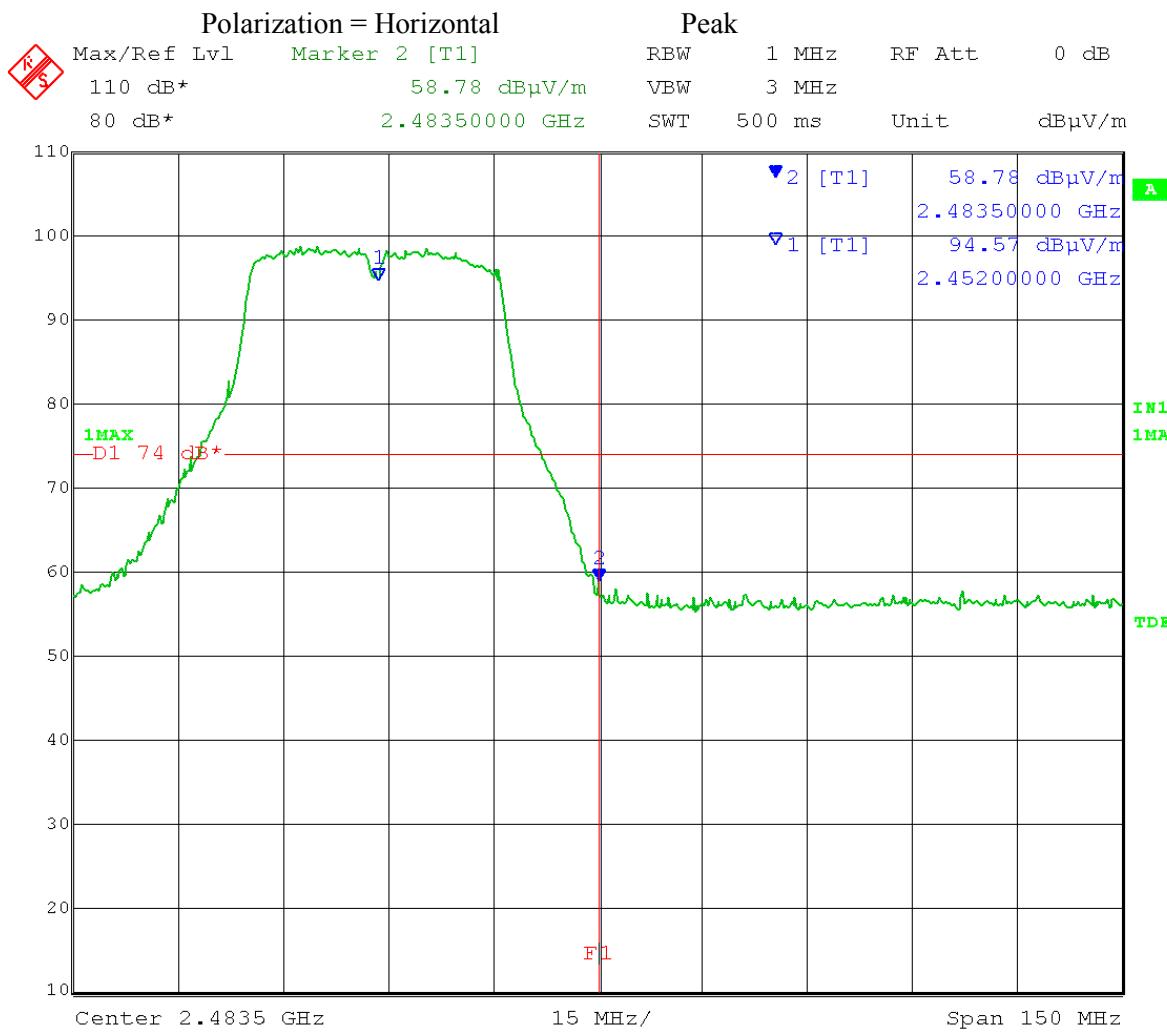
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:43:11

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

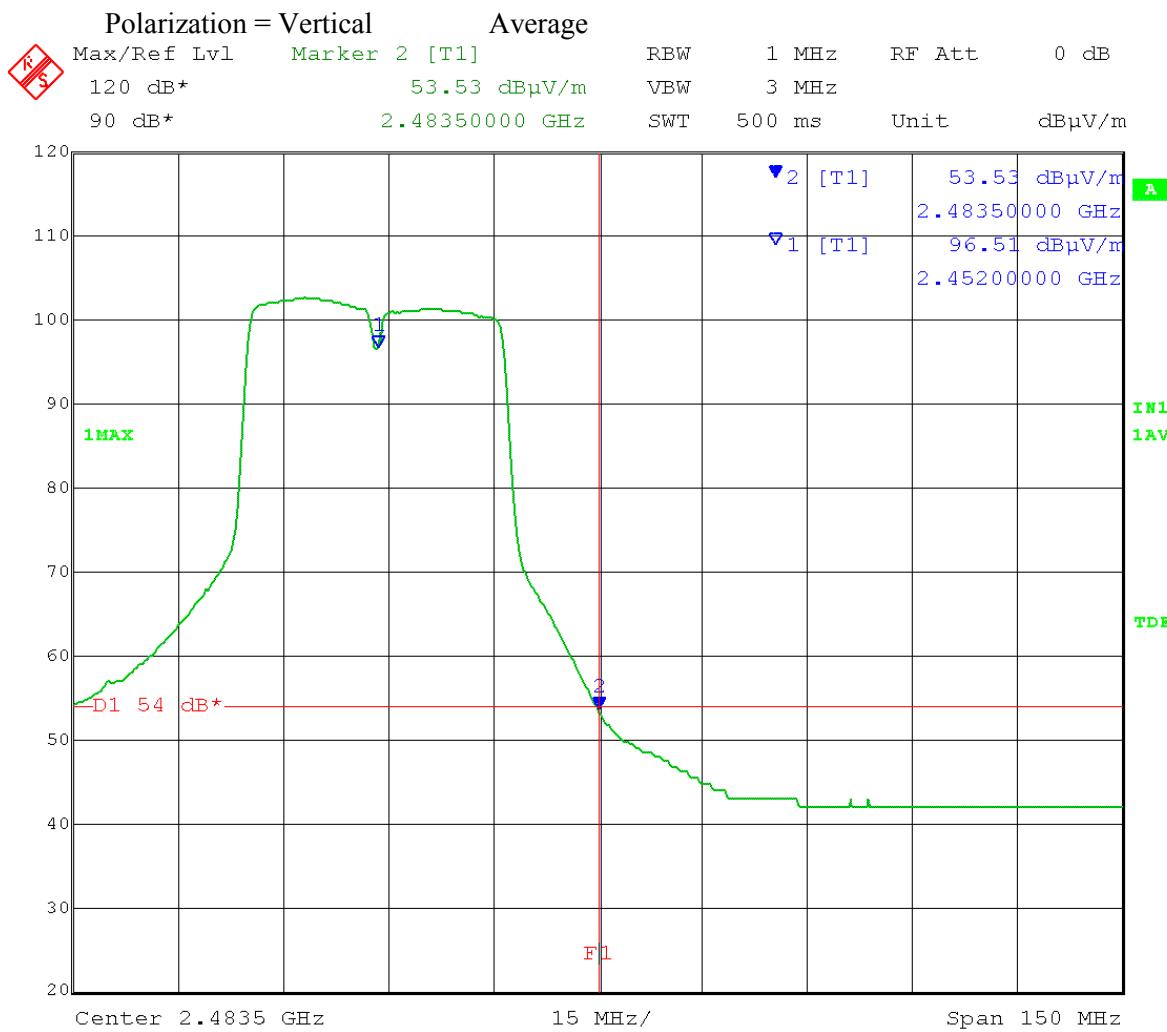
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:44:28

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

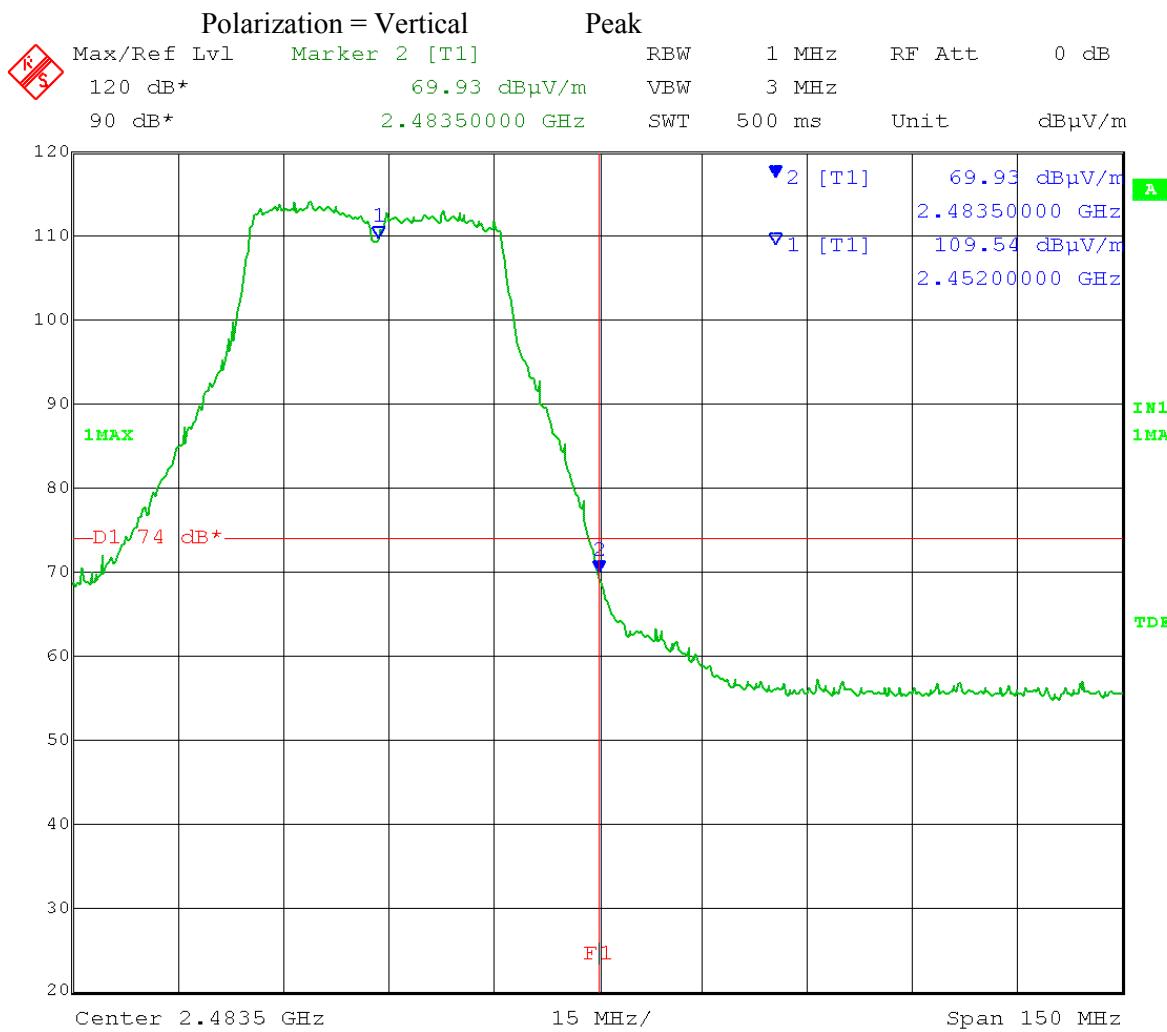
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Average
 Trace mode = max hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:16:25

Test Date: 03-04-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – Radiated from 8 dBi Omni antenna
 Operator: Craig B

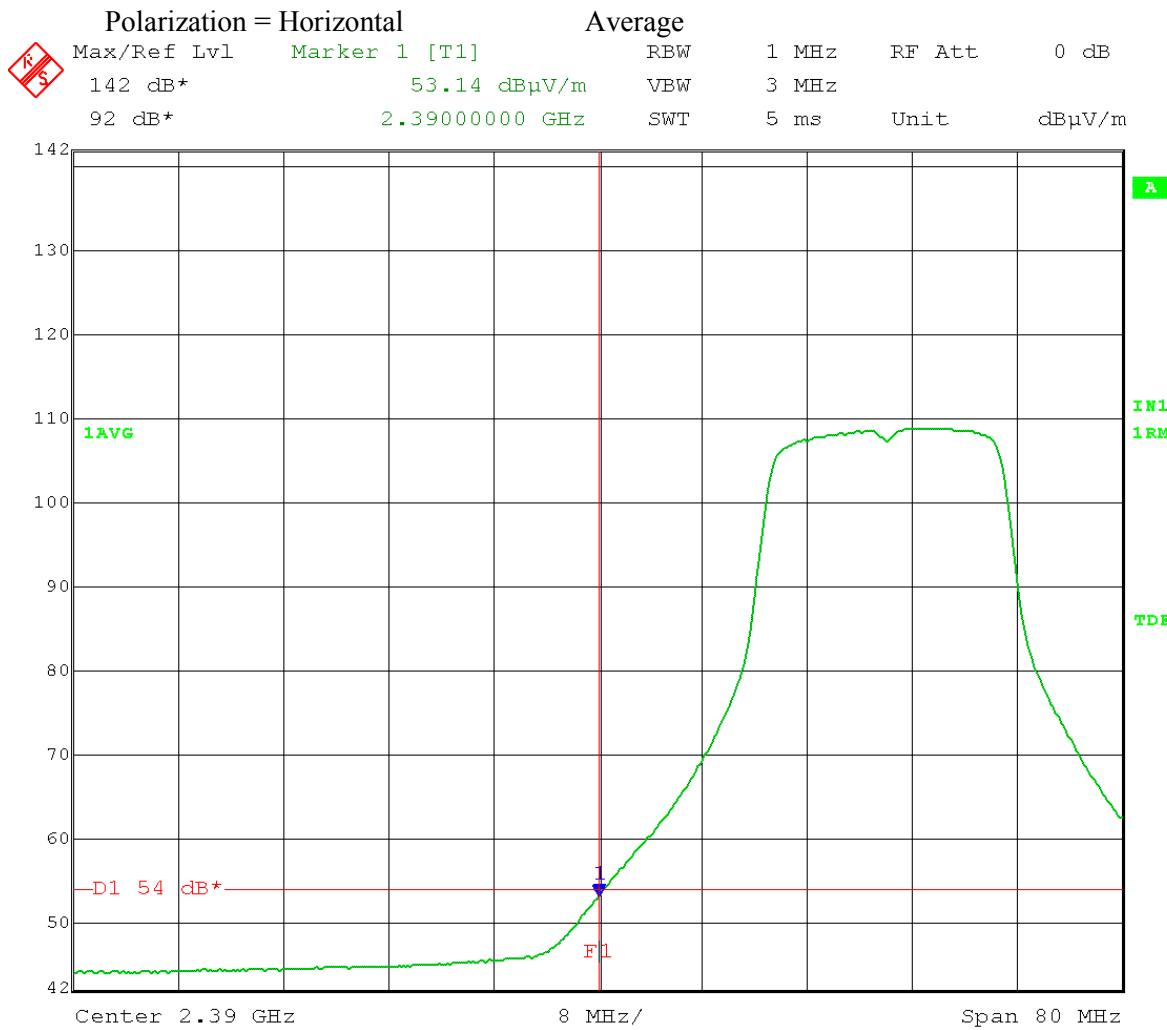
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 15.5
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 4.MAR.2014 13:17:27

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

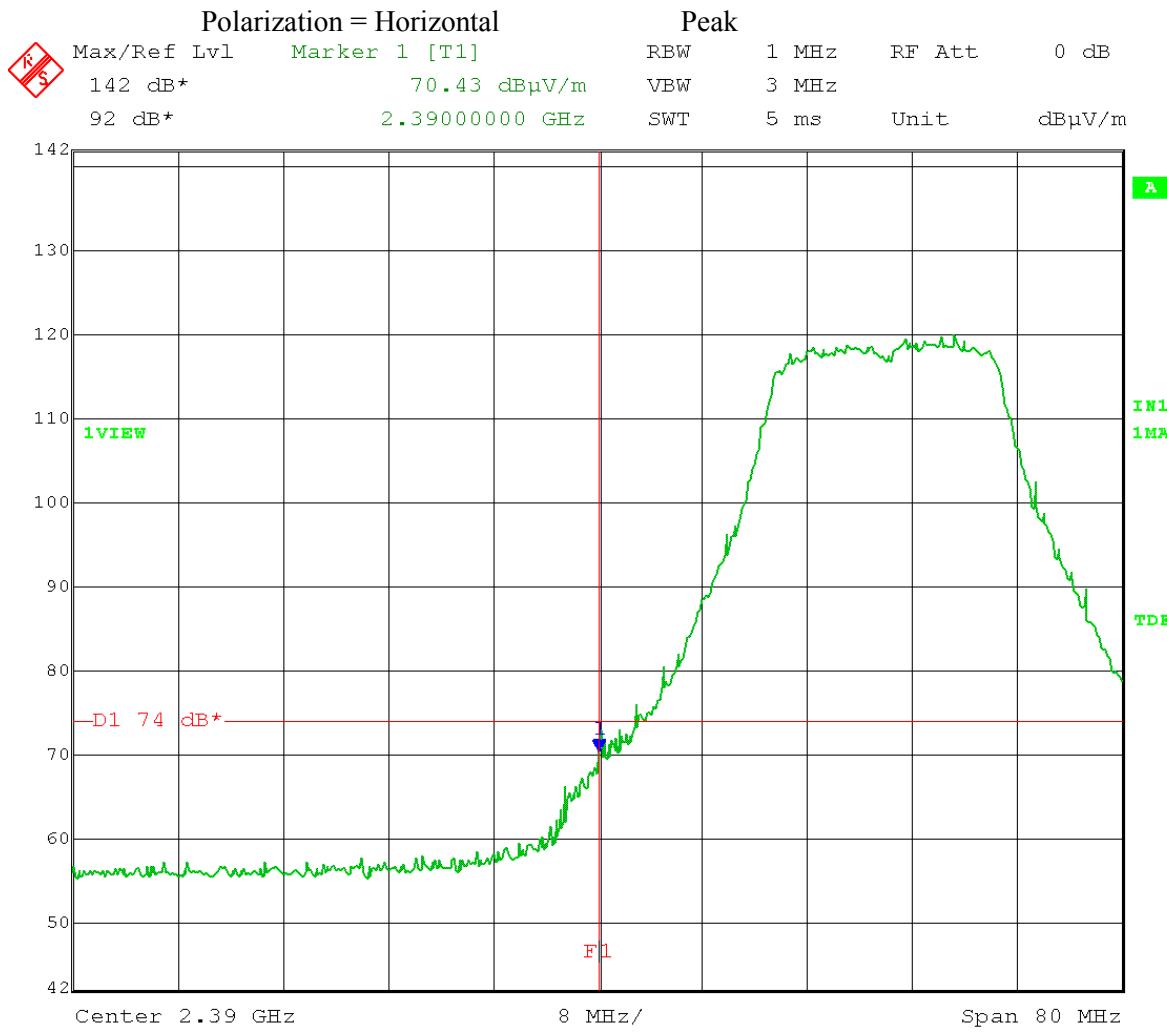
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software setting: **15** (used to get 14 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 09:27:23

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

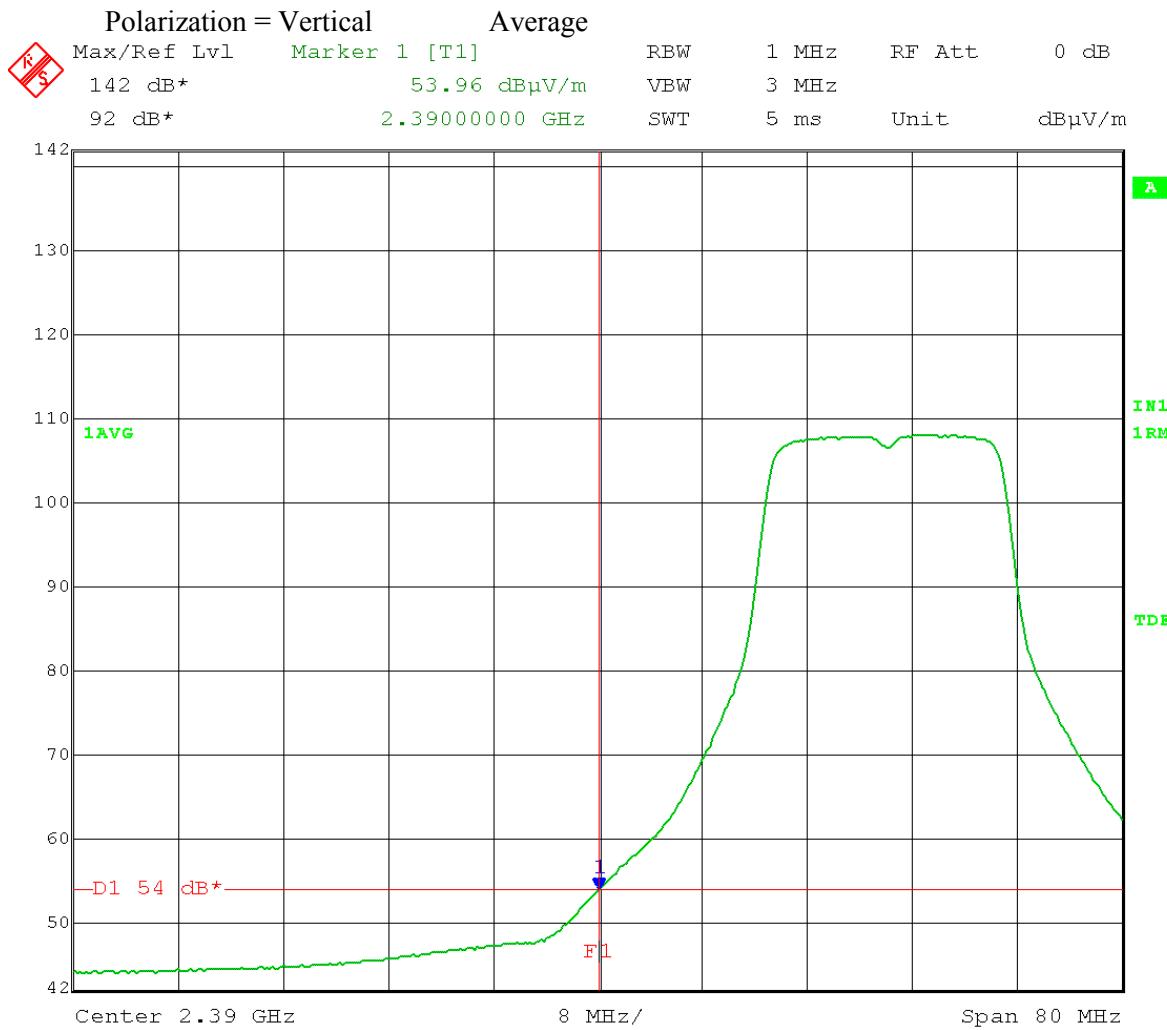
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software setting: **15** (used to get 14 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 09:28:50

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

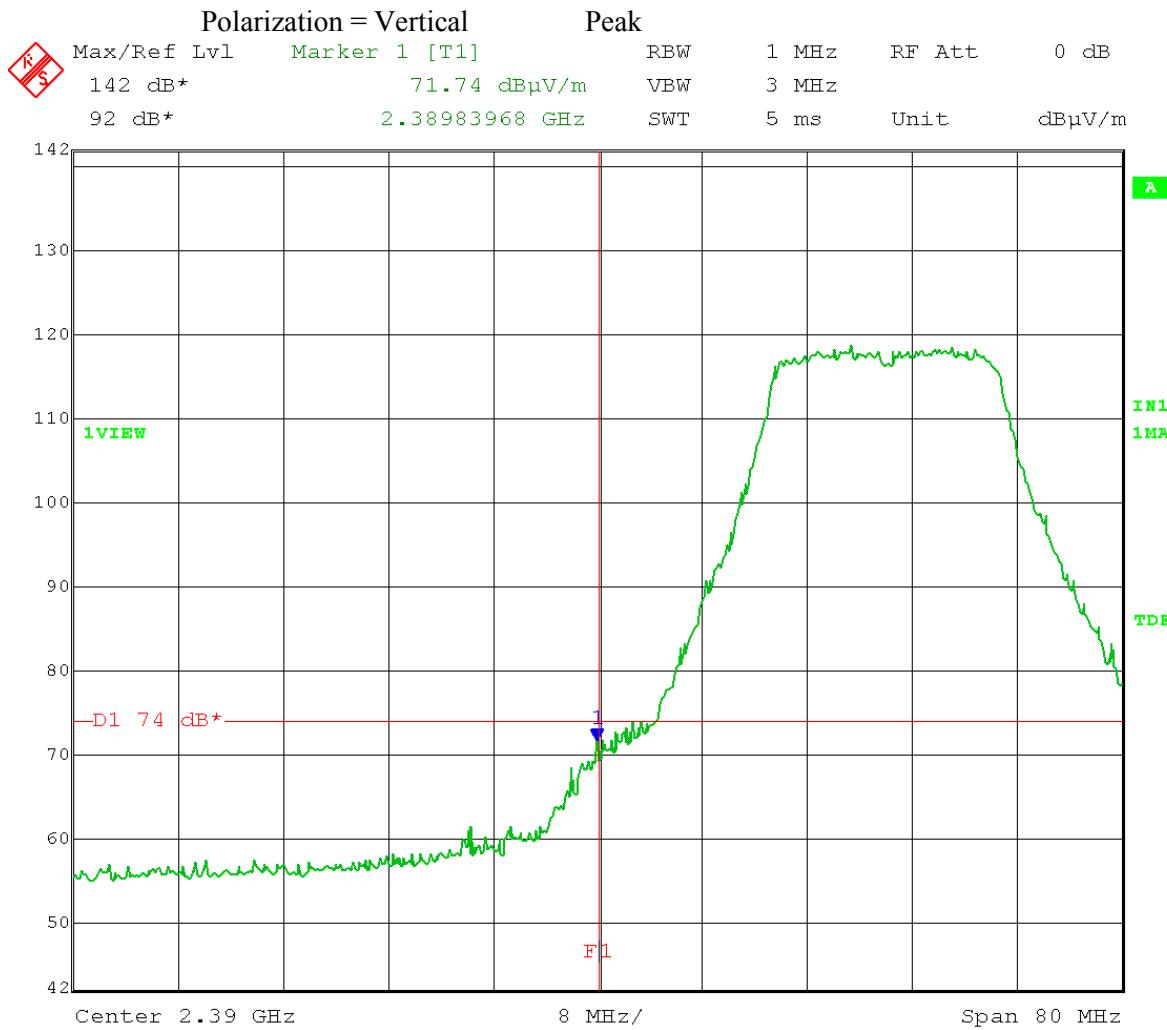
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software setting: **15** (used to get 14 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 08:58:47

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

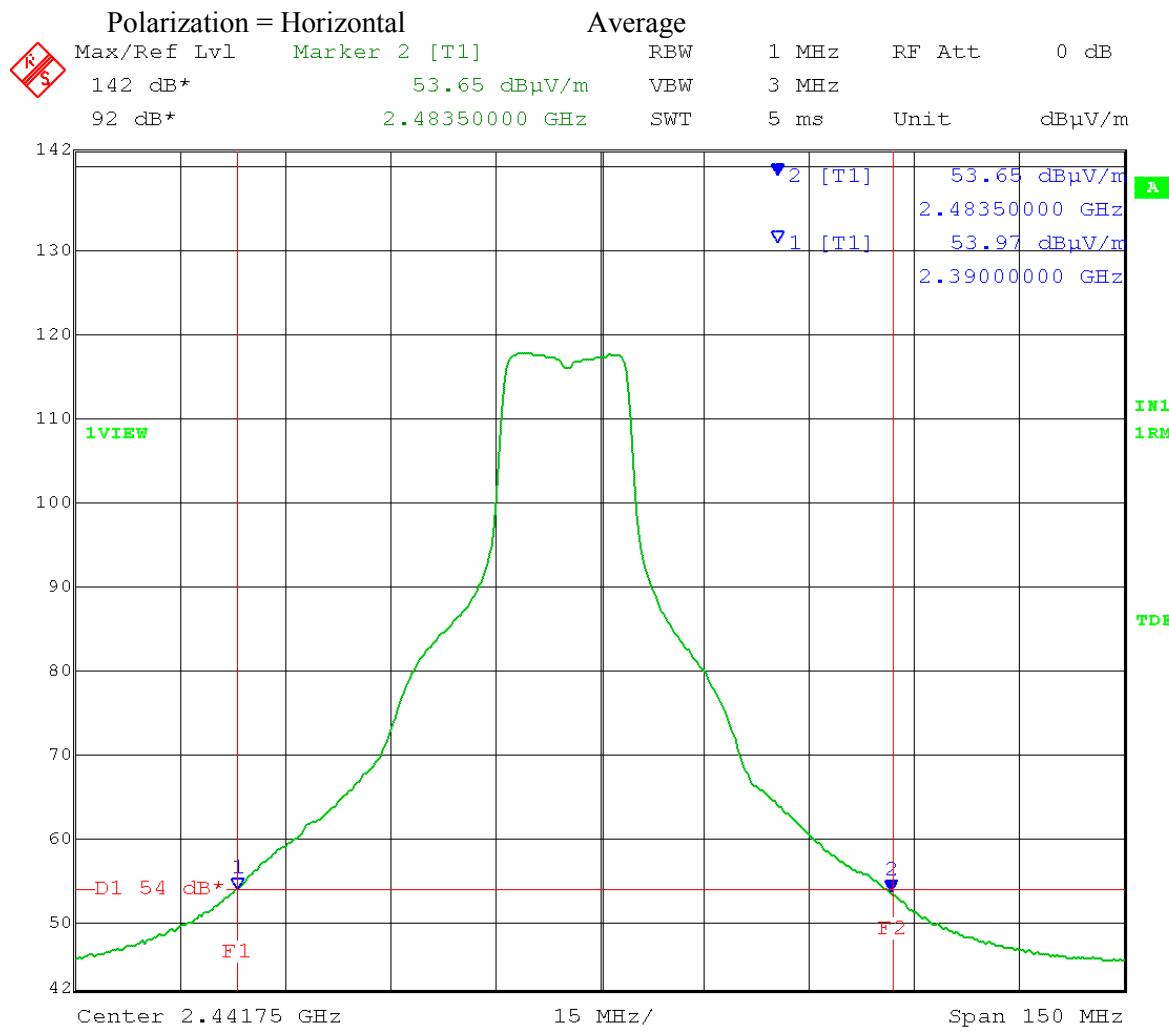
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software setting: **15** (used to get 14 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 09:00:03

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

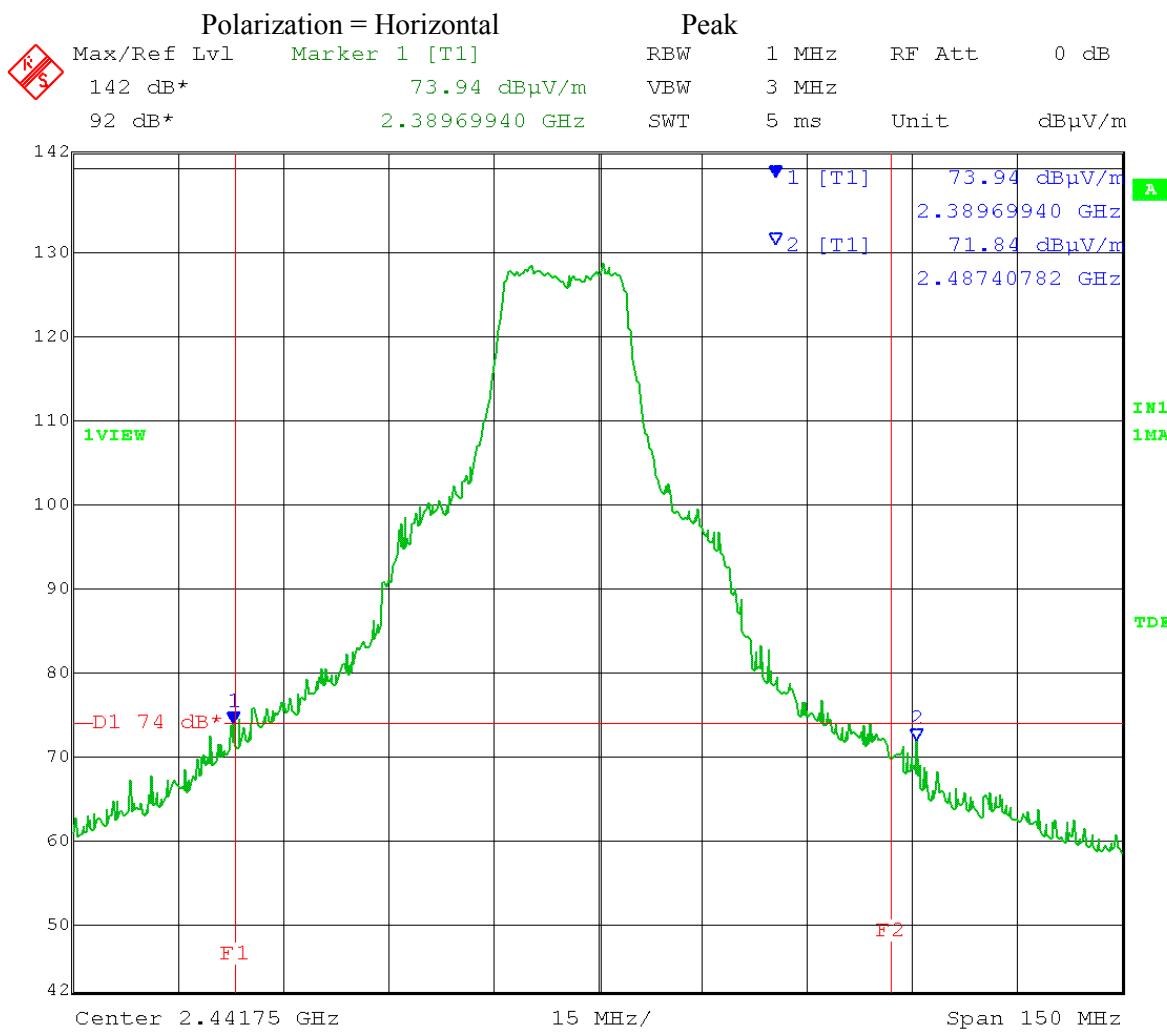
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software setting: 27 (used to get 26 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:19:17

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

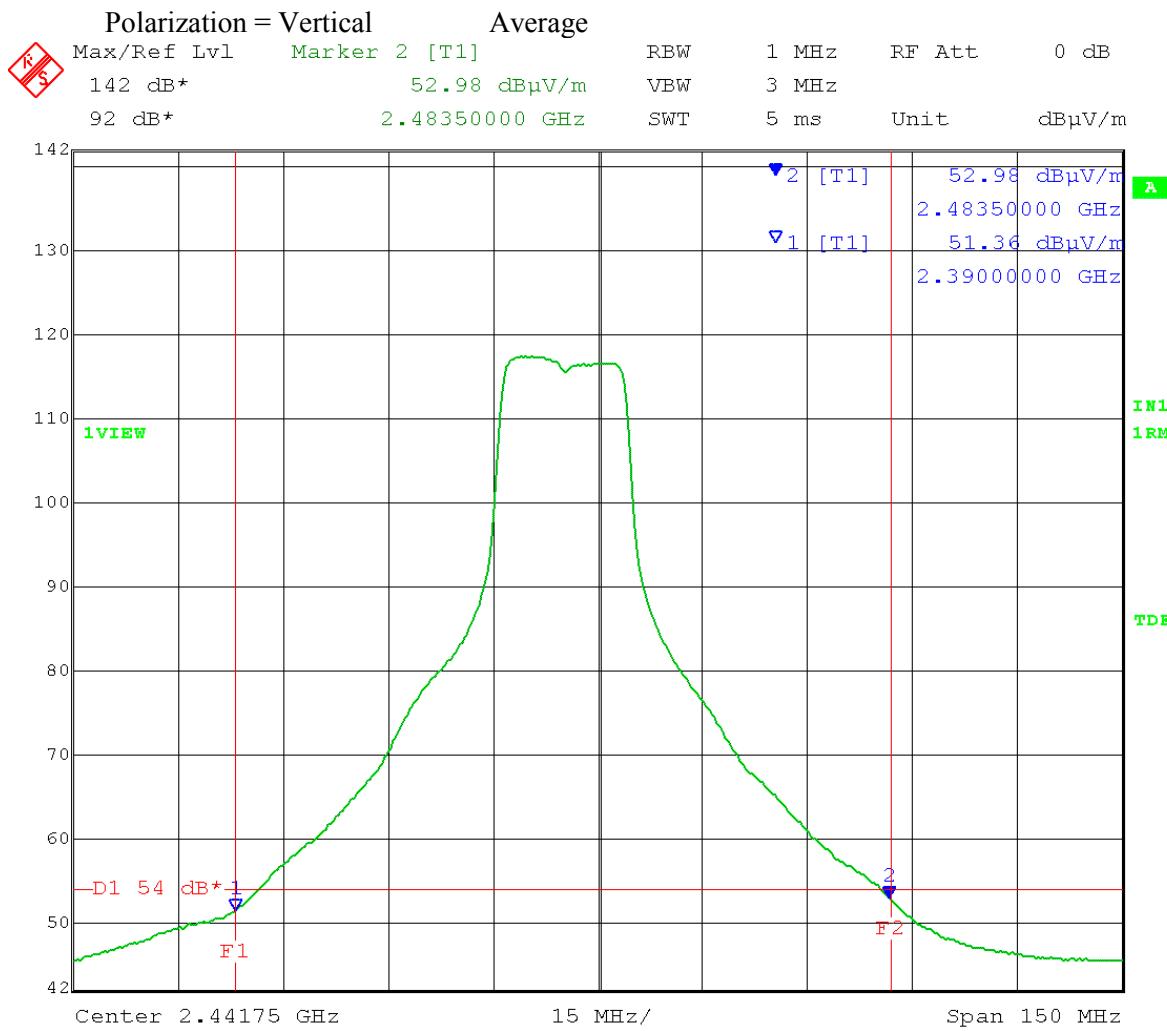
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software setting: 27 (used to get 26 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:21:38

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

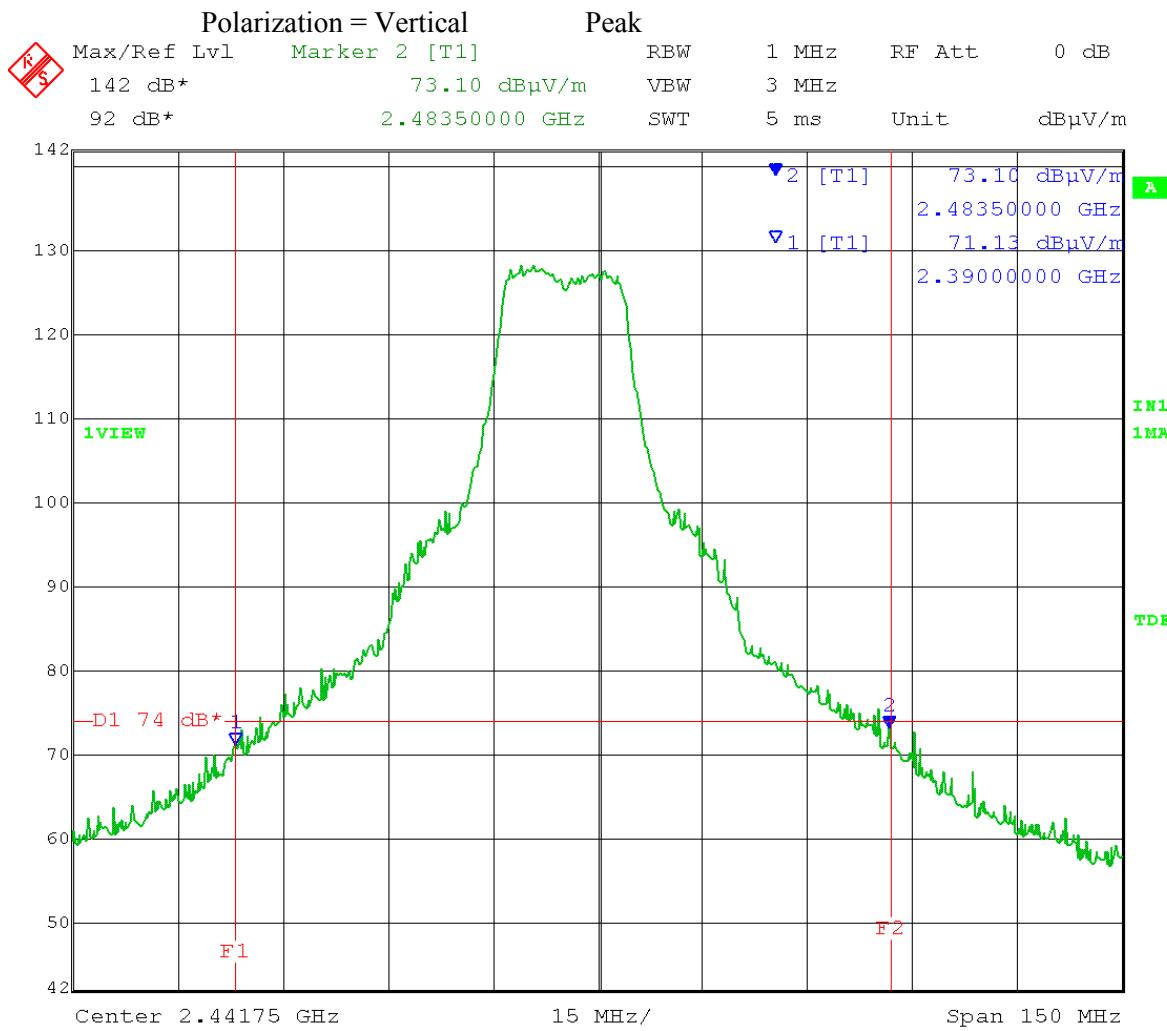
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software setting: 27 (used to get 26 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:05:29

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

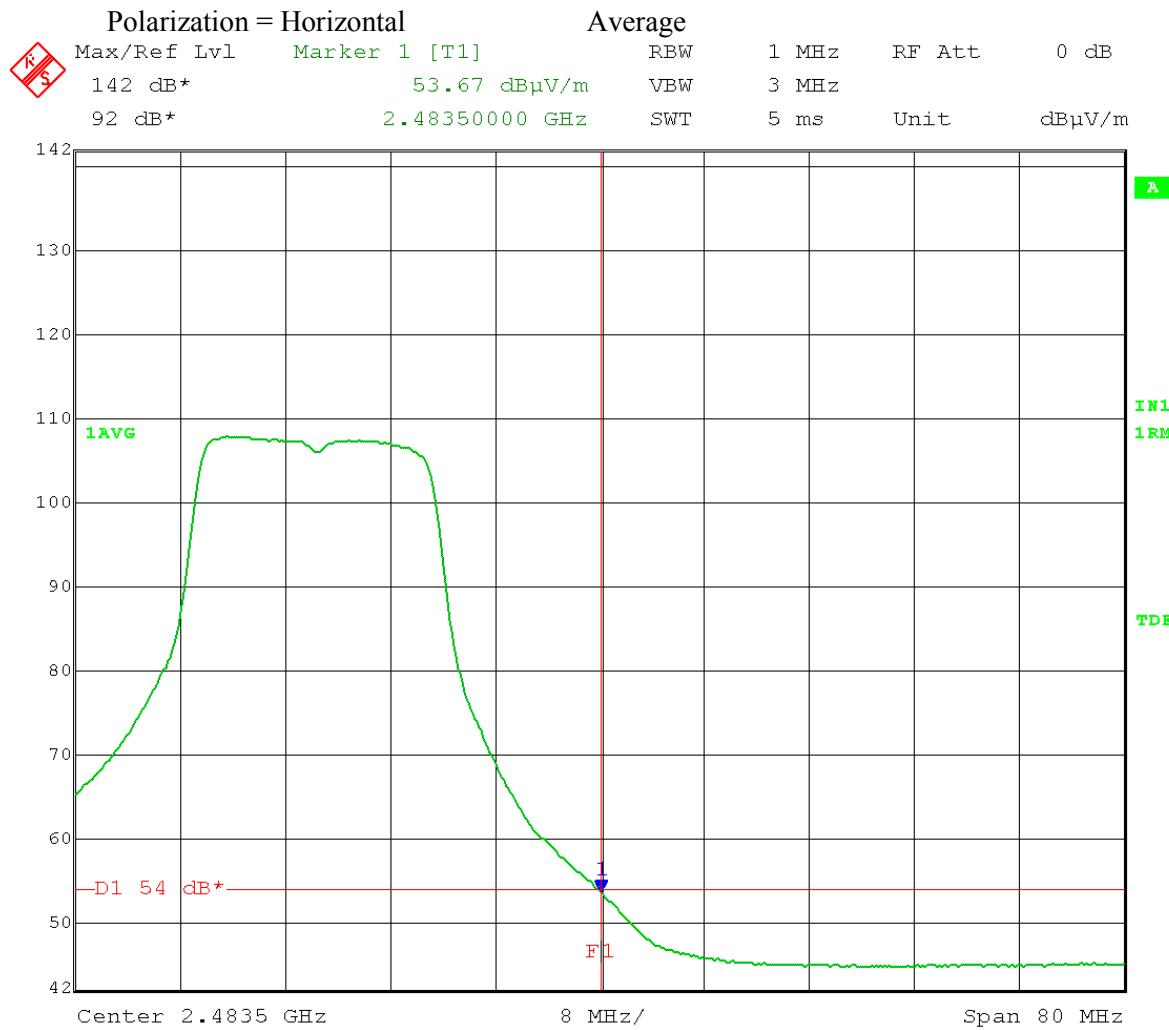
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software setting: 27 (used to get 26 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:04:10

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

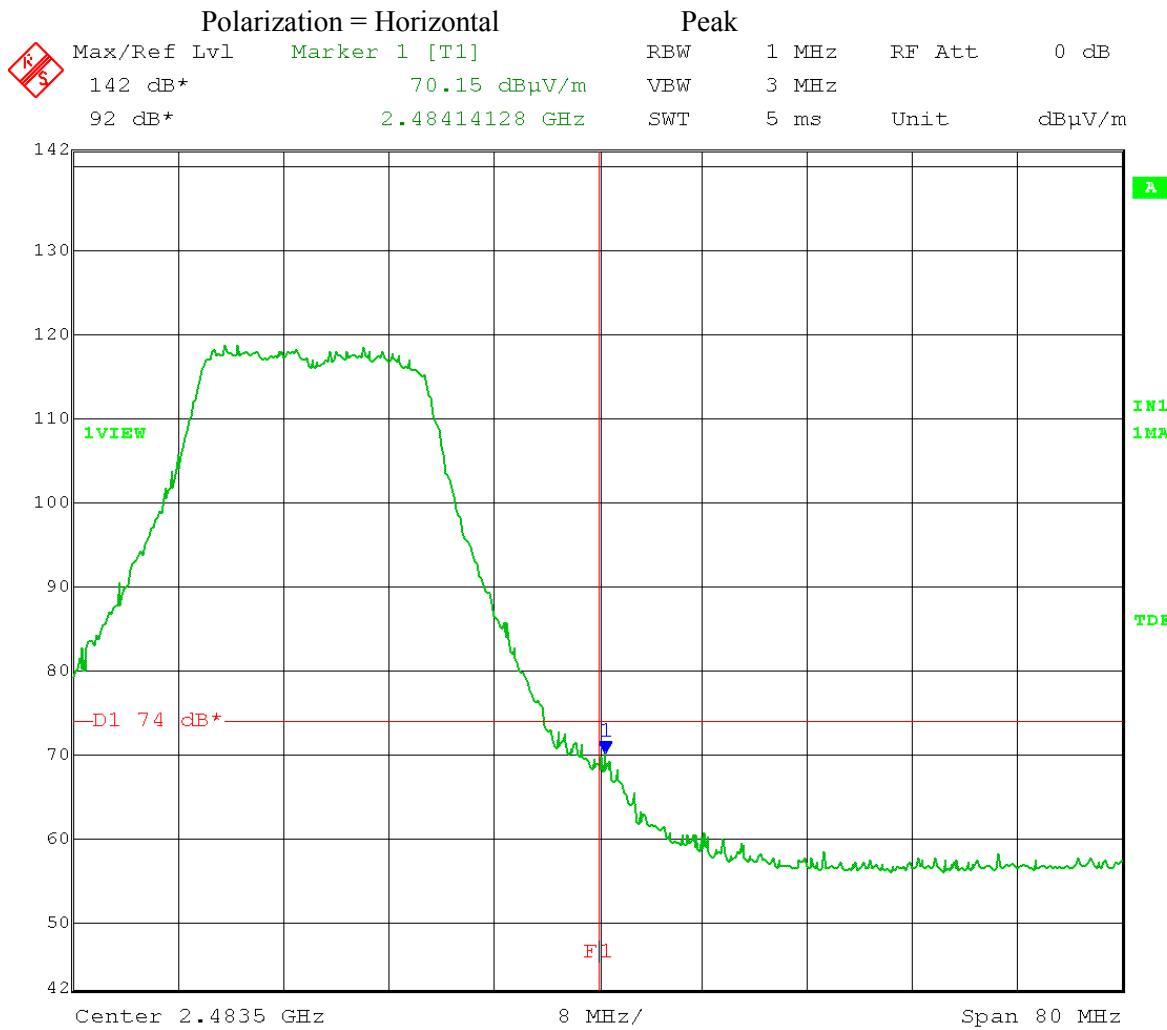
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.462 GHz
 Test software setting: 17 (used to get 16 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 09:50:22

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

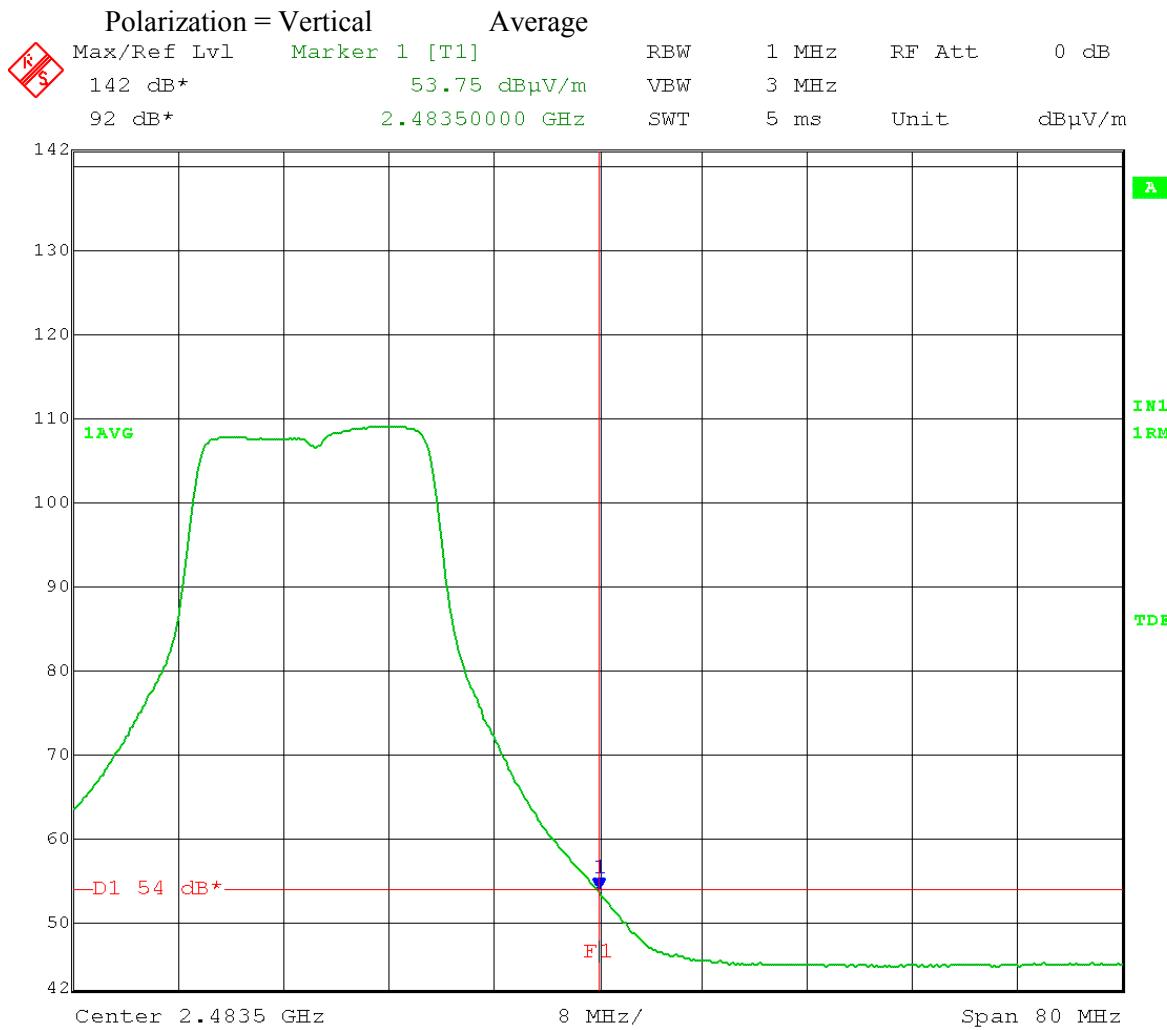
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software setting: 17 (used to get 16 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 09:52:42

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

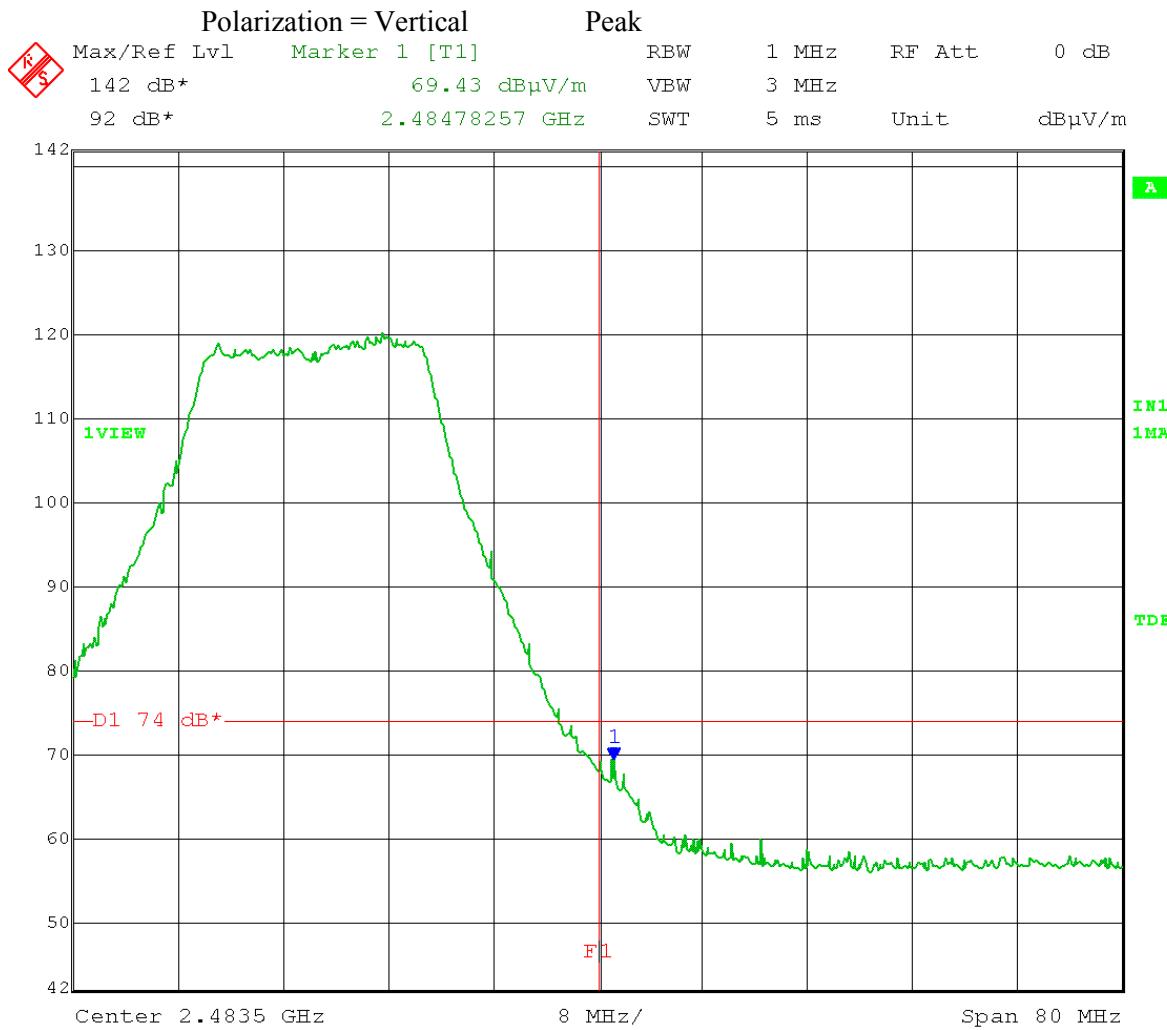
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.462 GHz
 Test software setting: **17** (used to get 16 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 10:12:52

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

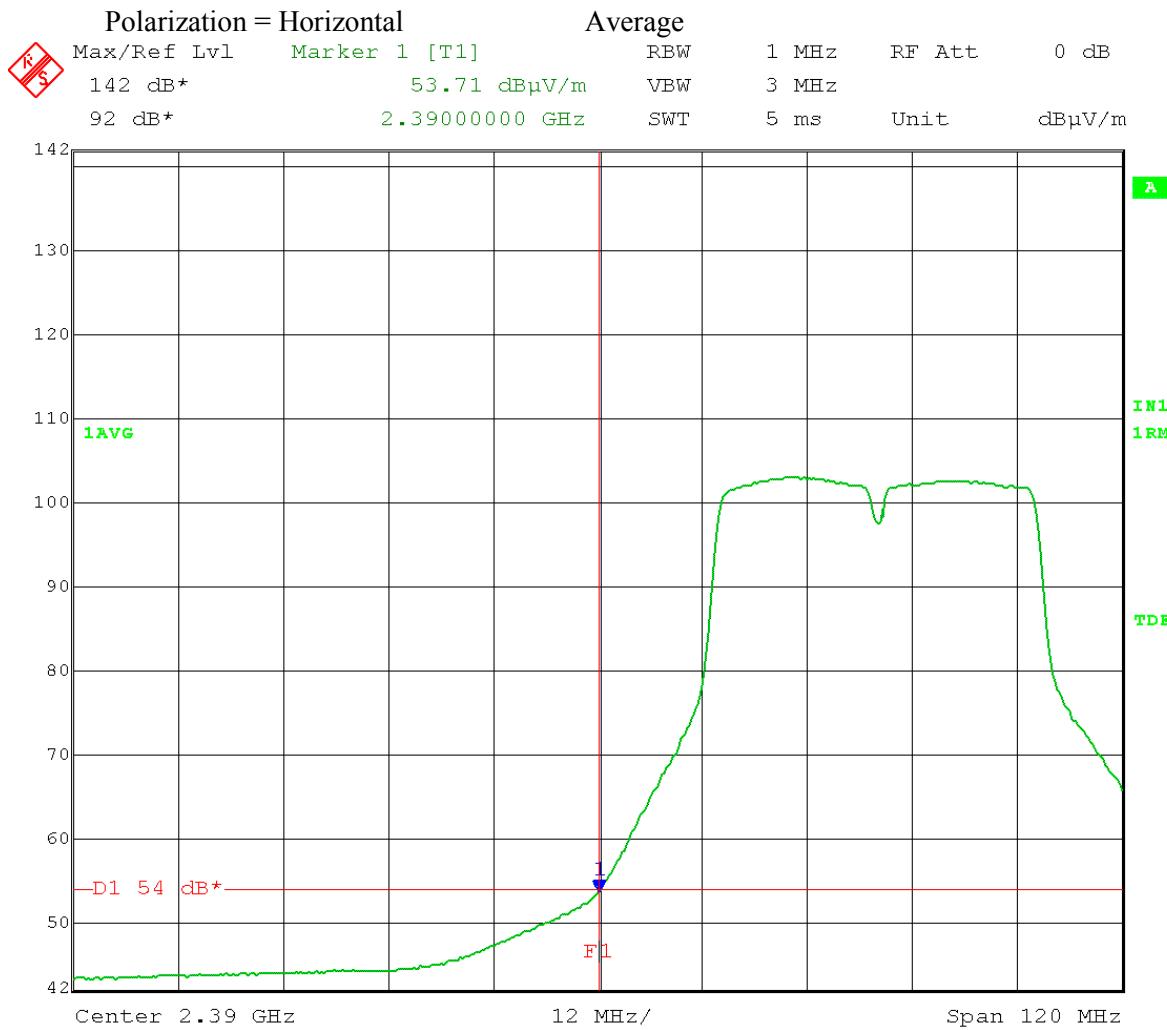
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software setting: 17 (used to get 16 dBm output)
 20 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 10:15:09

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

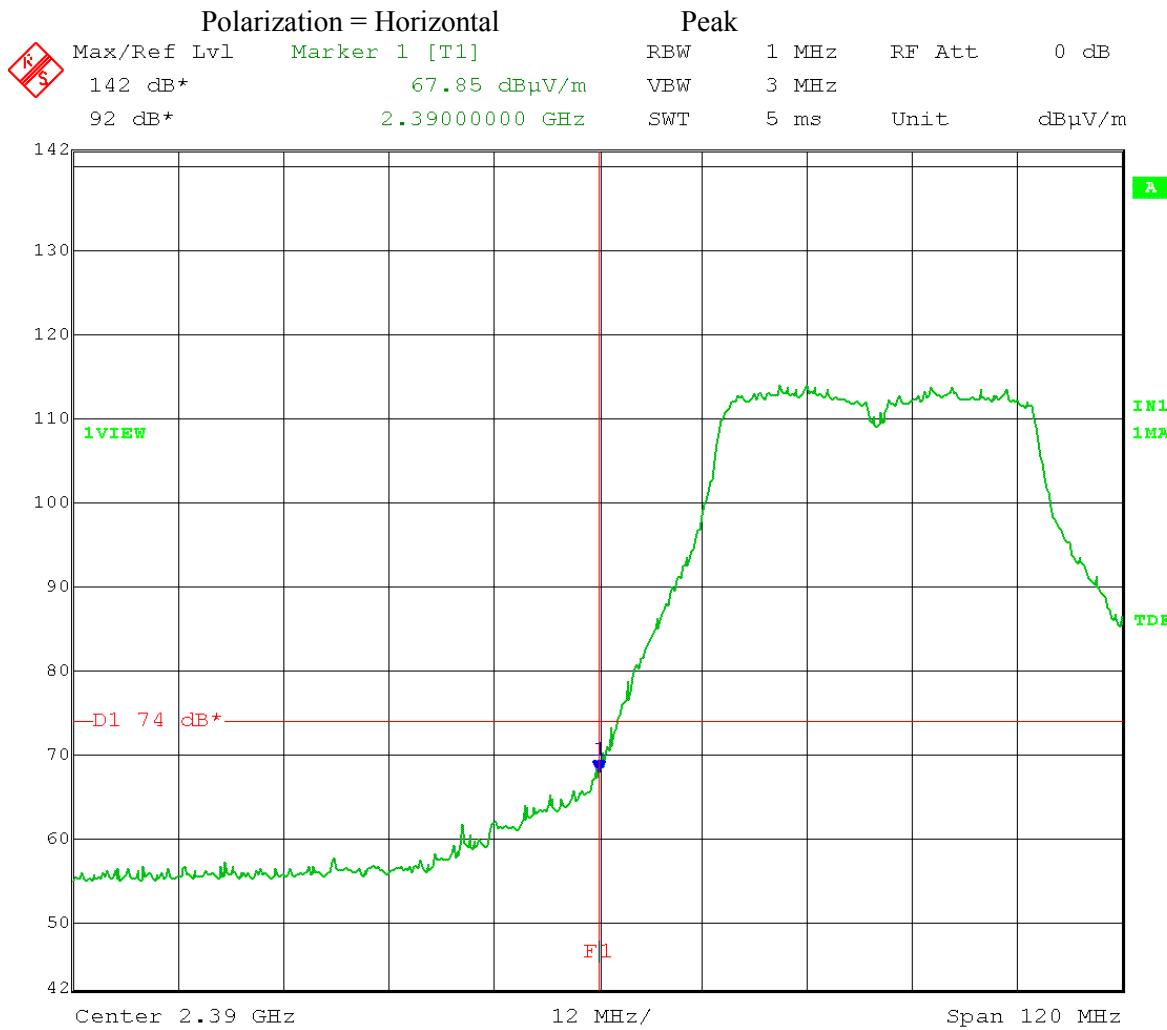
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.422 GHz
 Test software setting: 12.5 (used to get 11.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 11:24:50

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

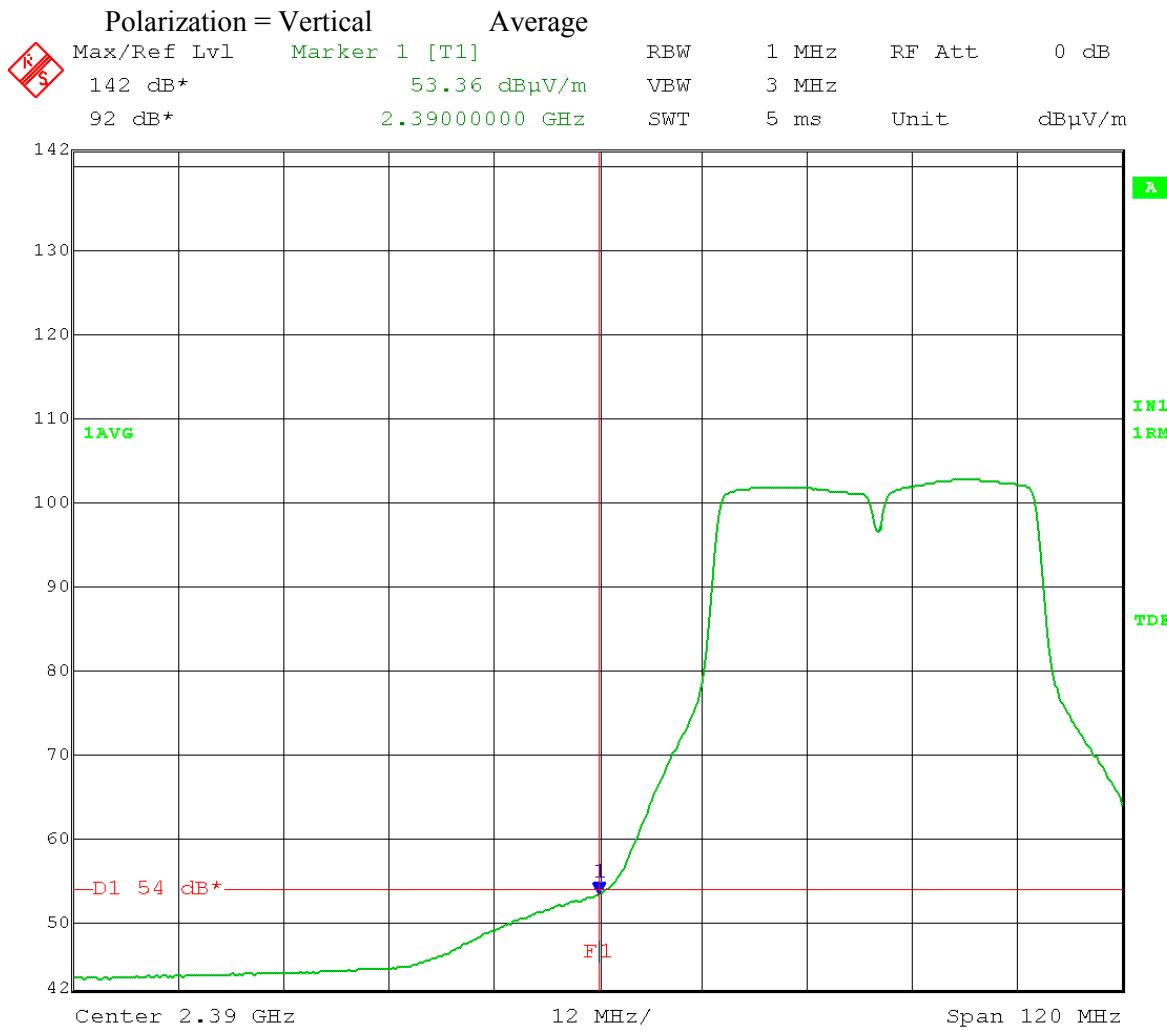
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.422 GHz
 Test software setting: 12.5 (used to get 11.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 11:27:15

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

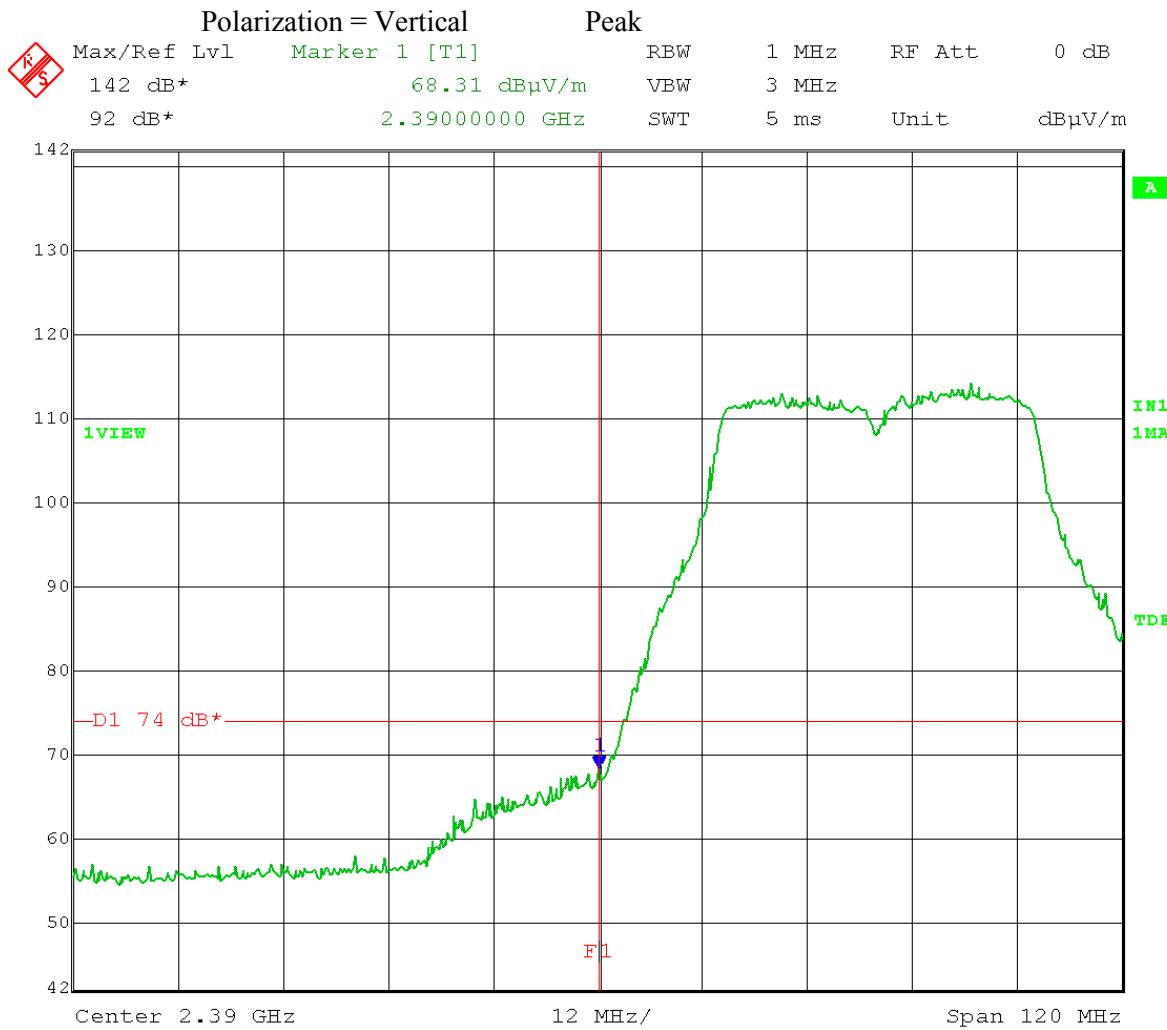
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.422 GHz
 Test software setting: 12.5 (used to get 11.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 11:40:52

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

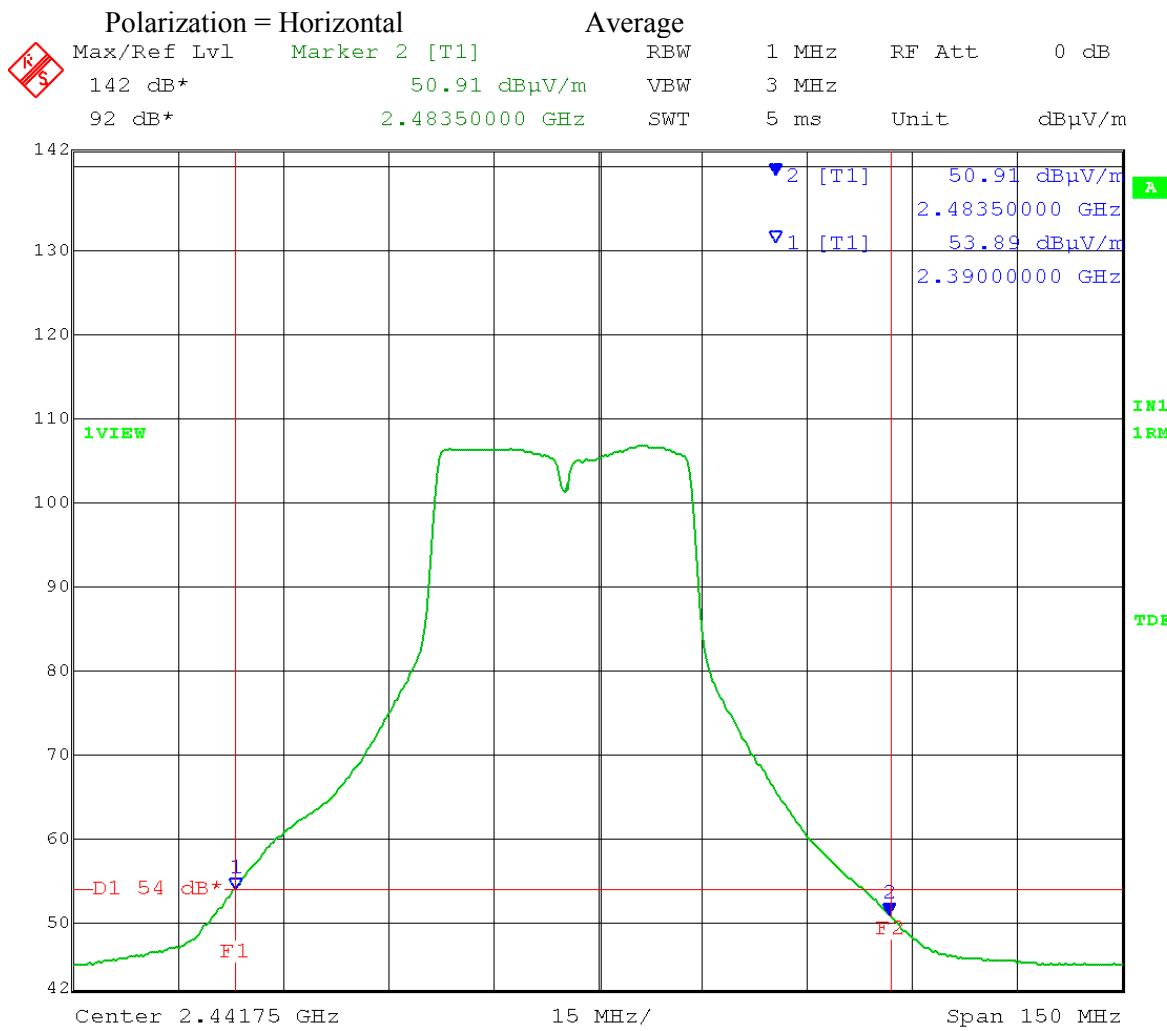
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.422 GHz
 Test software setting: 12.5 (used to get 11.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 11:42:28

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

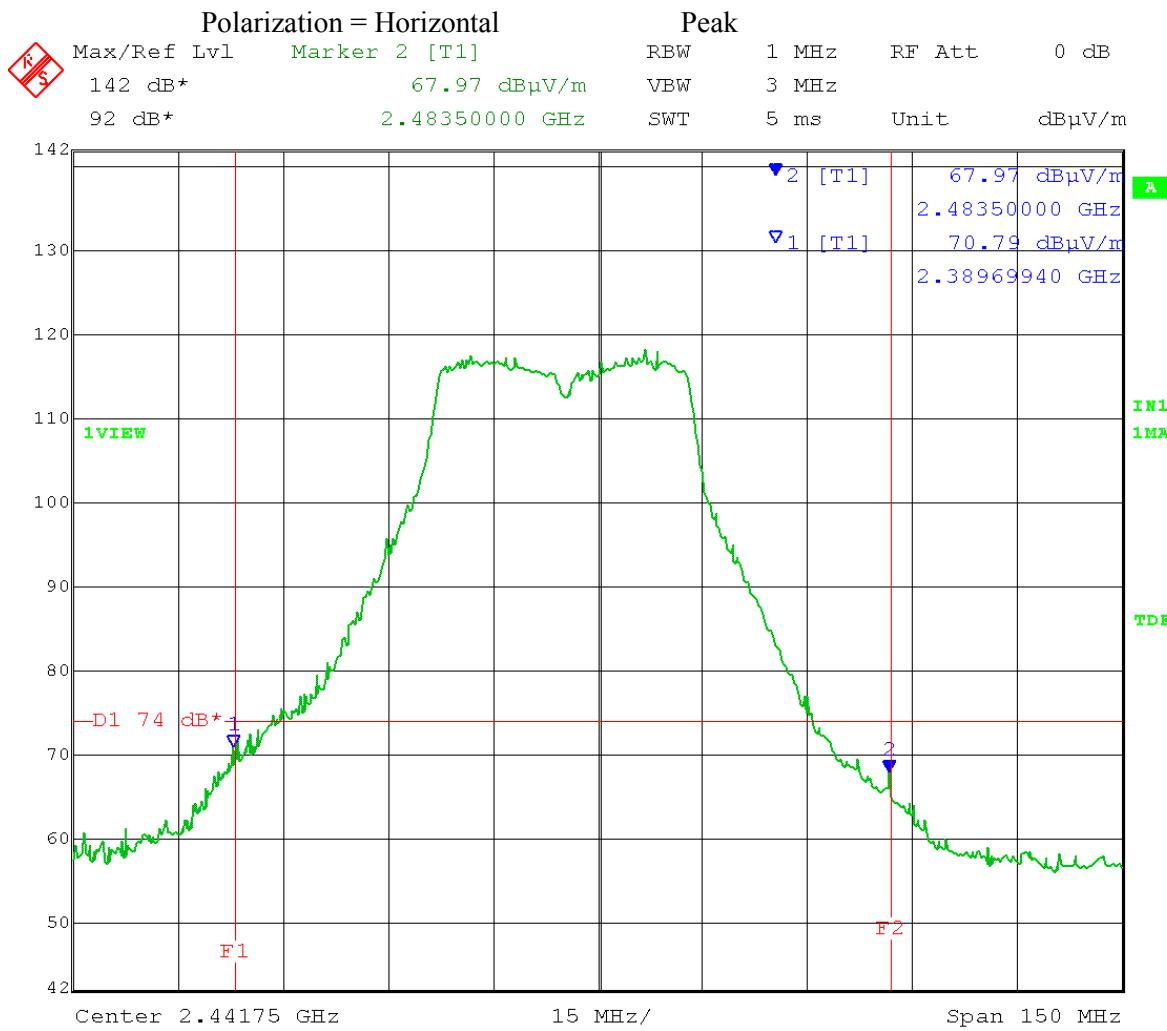
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software setting: 17 (used to get 16 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:45:38

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

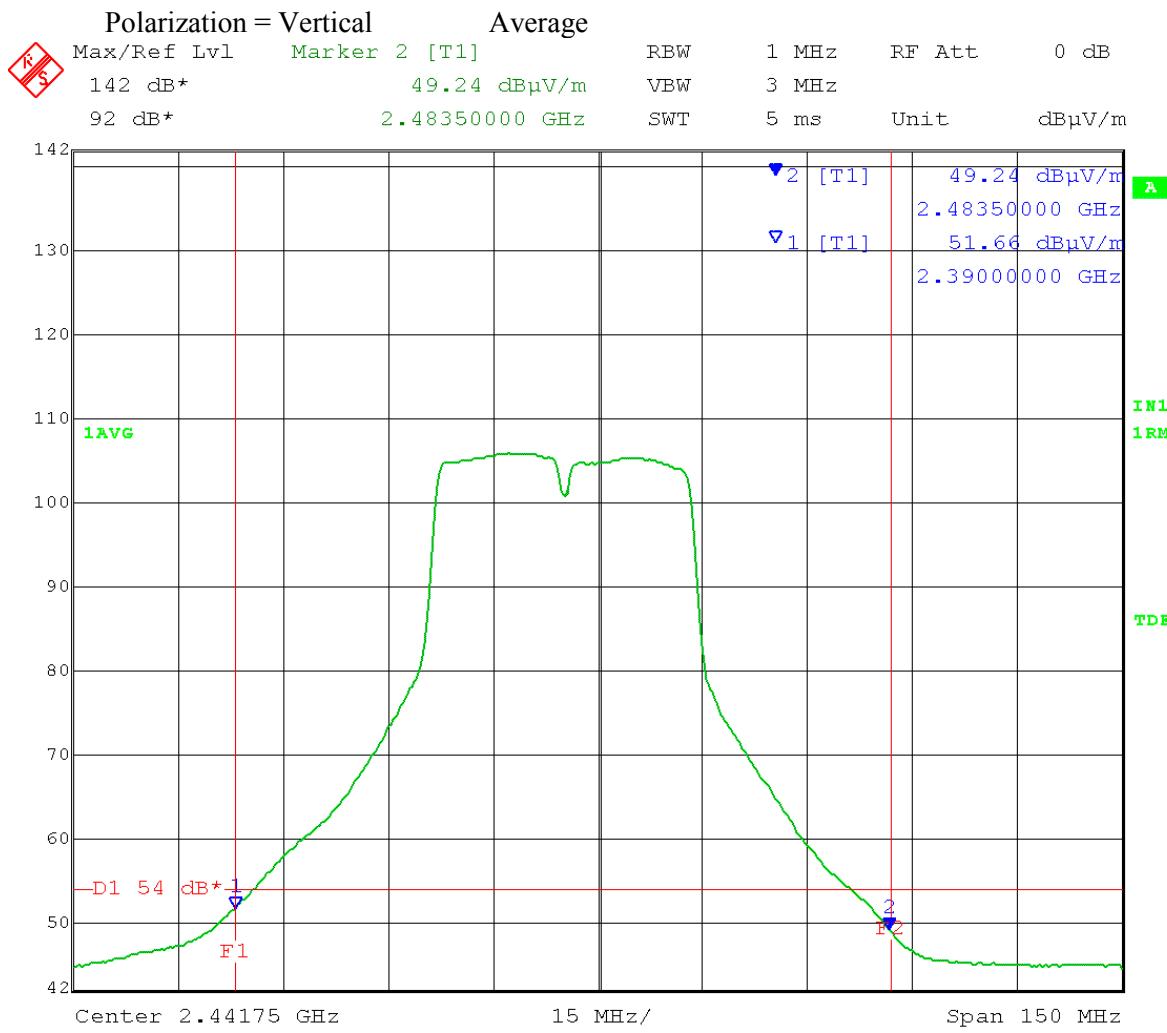
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software setting: 17 (used to get 16 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 15:49:01

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

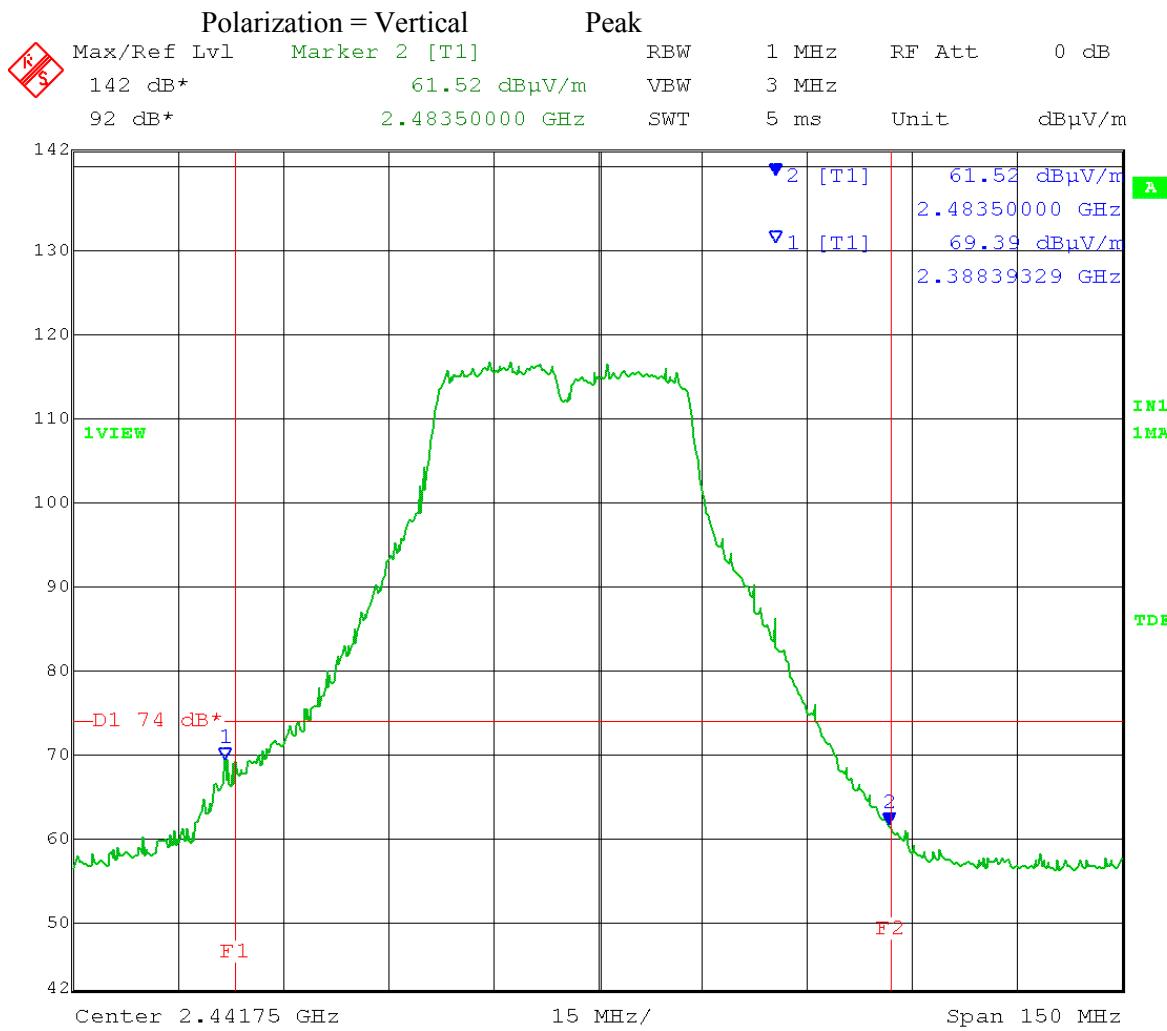
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software setting: 17 (used to get 16 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 16:09:23

Test Date: 01-17-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

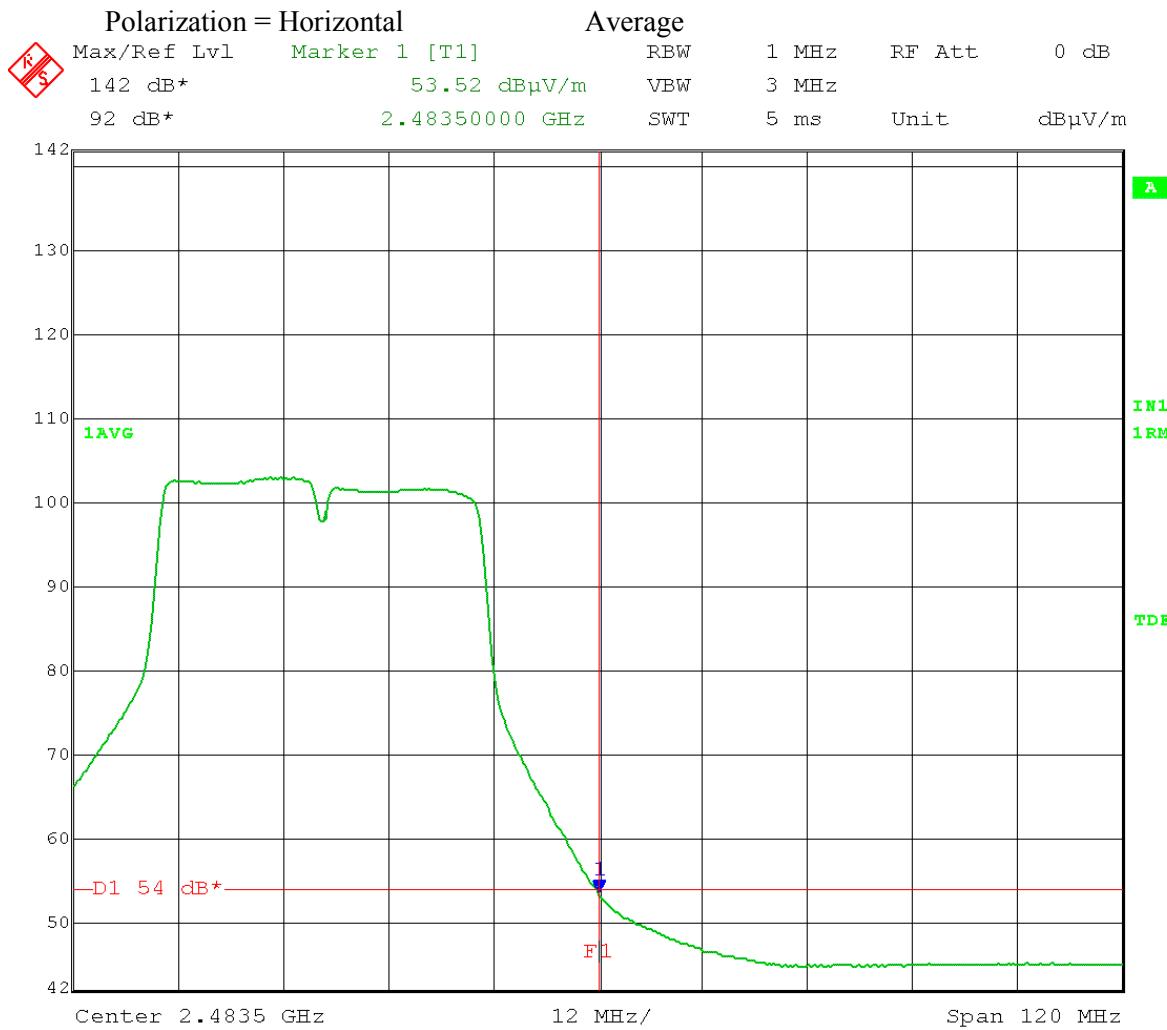
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software setting: 17 (used to get 16 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Lower Restricted Band-Edge Frequency = 2.390 GHz
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 17.JAN.2014 16:08:24

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

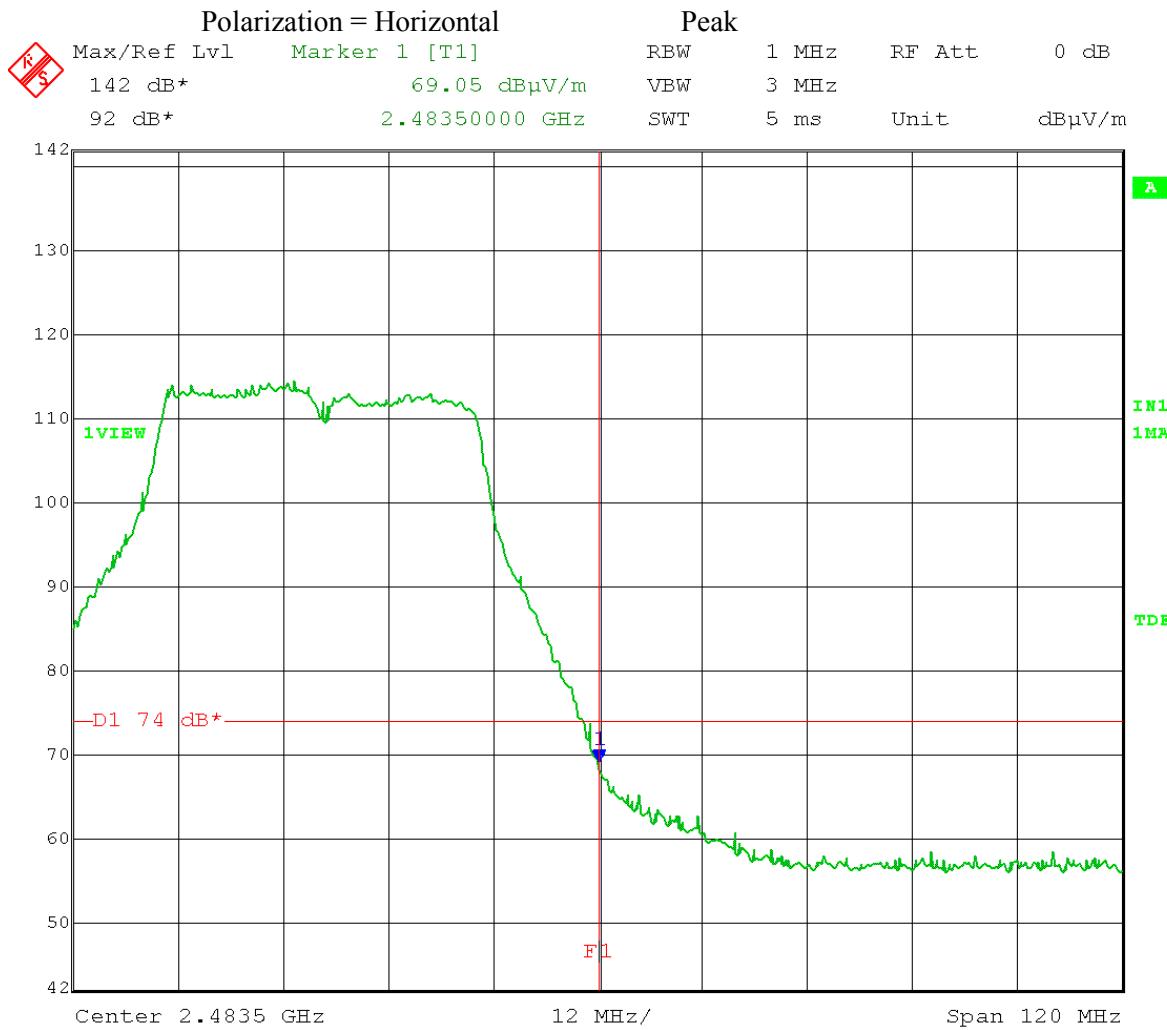
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software setting: 13.5 (used to get 12.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 11:01:13

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

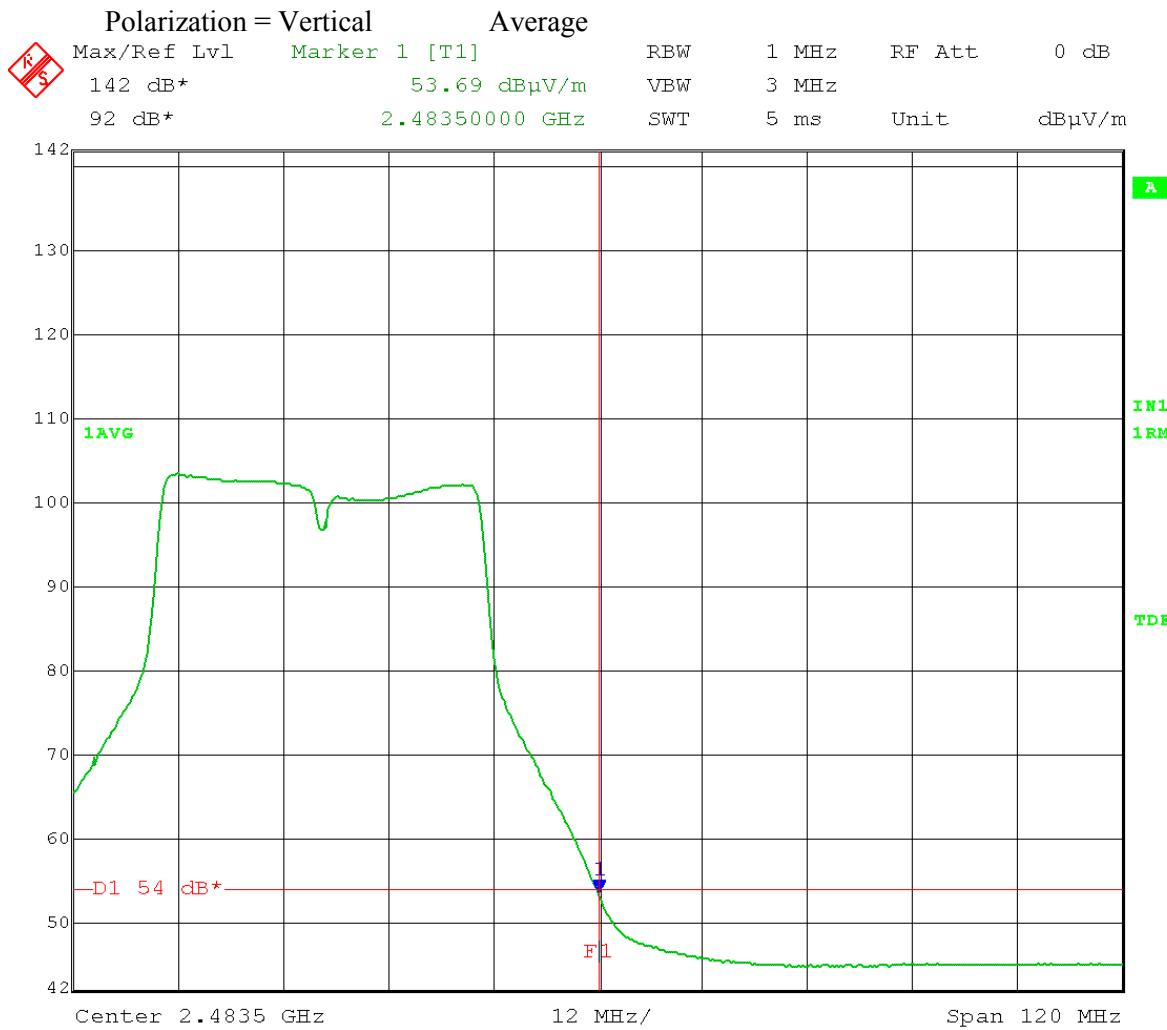
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software setting: 13.5 (used to get 12.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 10:56:25

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

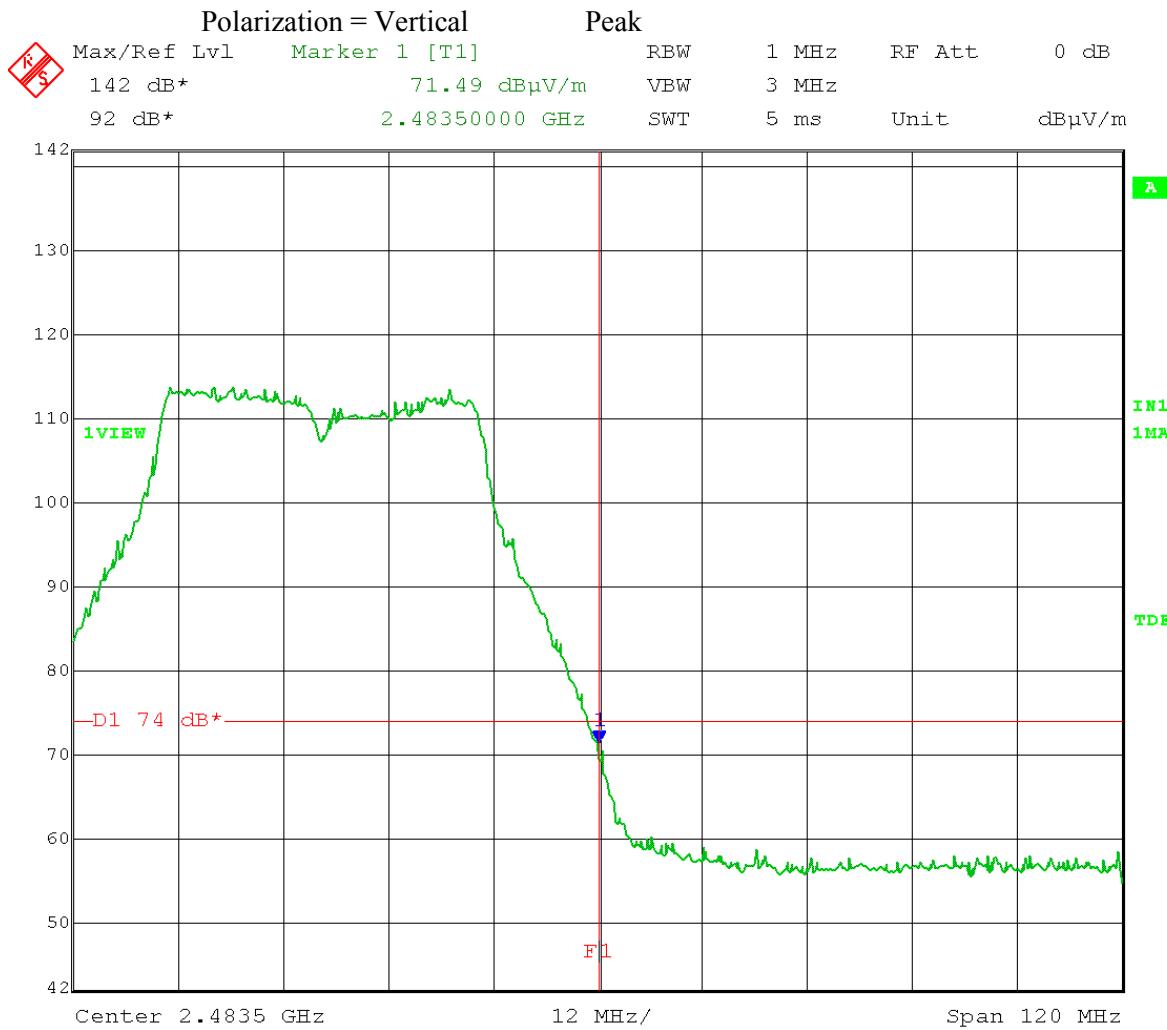
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software setting: 13.5 (used to get 12.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 10:37:08

Test Date: 01-20-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C1A853
 Test: Band-Edge Measurements – Radiated from integral antenna
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software setting: 13.5 (used to get 12.5 dBm output)
 40 MHz CH BW Both chains 0 and 1 active
 Upper Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 20.JAN.2014 10:51:27



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

Appendix B – Measurement Data

B10.0 Conducted Measurements for Radiated Restricted Band-Edge Compliance - for Sector, Panel, and Dish Antennas

Rule Section: FCC 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*

- 12.1 Emissions in restricted frequency bands
- 12.2.2 General Procedure for conducted measurements in restricted bands

Description: Measure the conducted output power (in dBm) using the detector specified (section 12.2.4 used for peak, and 12.2.5.1 used for average).
Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level.
For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (*e.g.*, Watts, mW).
Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

Compare the resultant electric field strength level to the applicable limit.

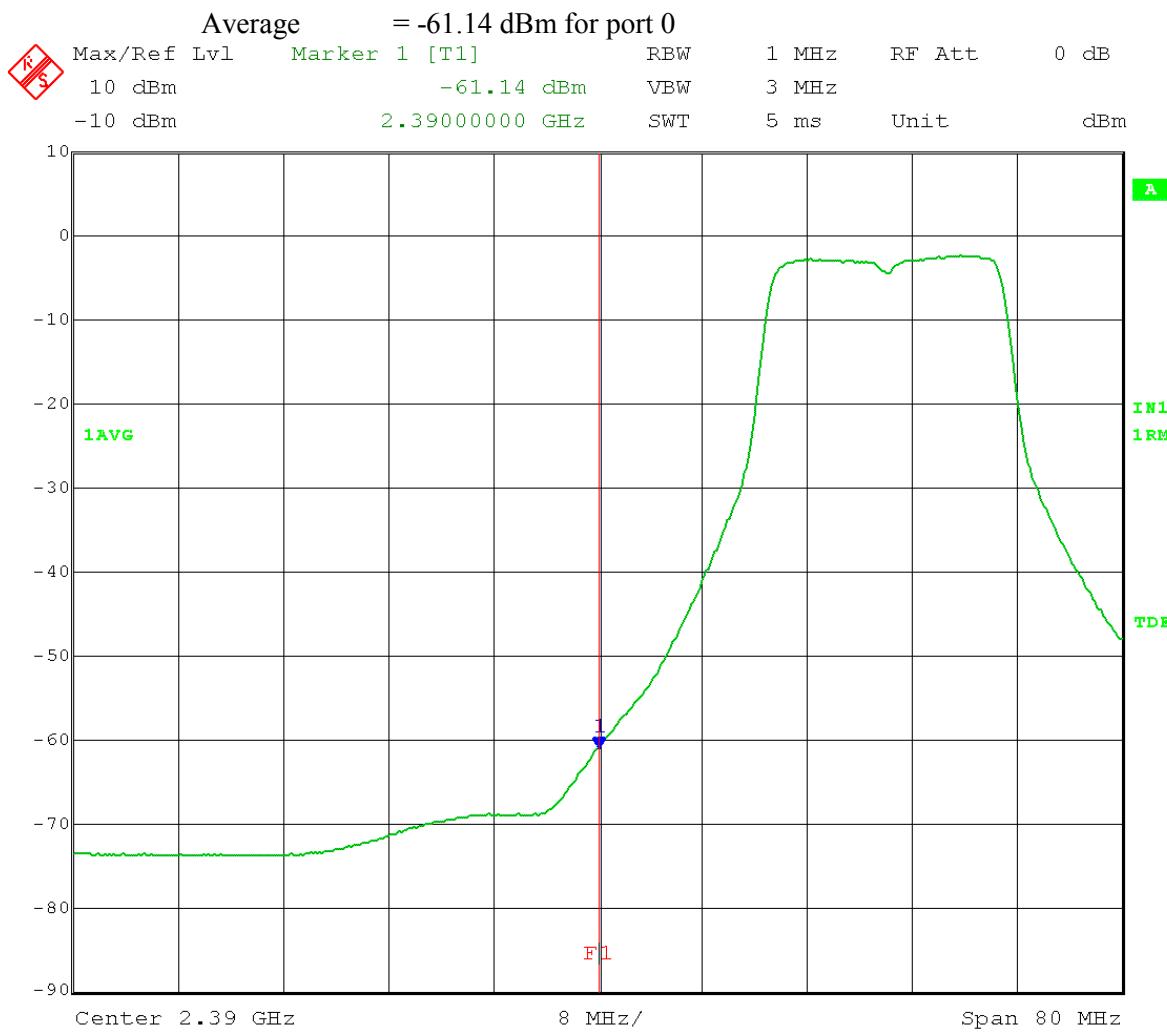
Limit: Average Limit = 54dB μ V/m @ 3 meters
Peak Limit = 74dB μ V/m @ 3 meters

Results: Passed

Notes: 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.

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

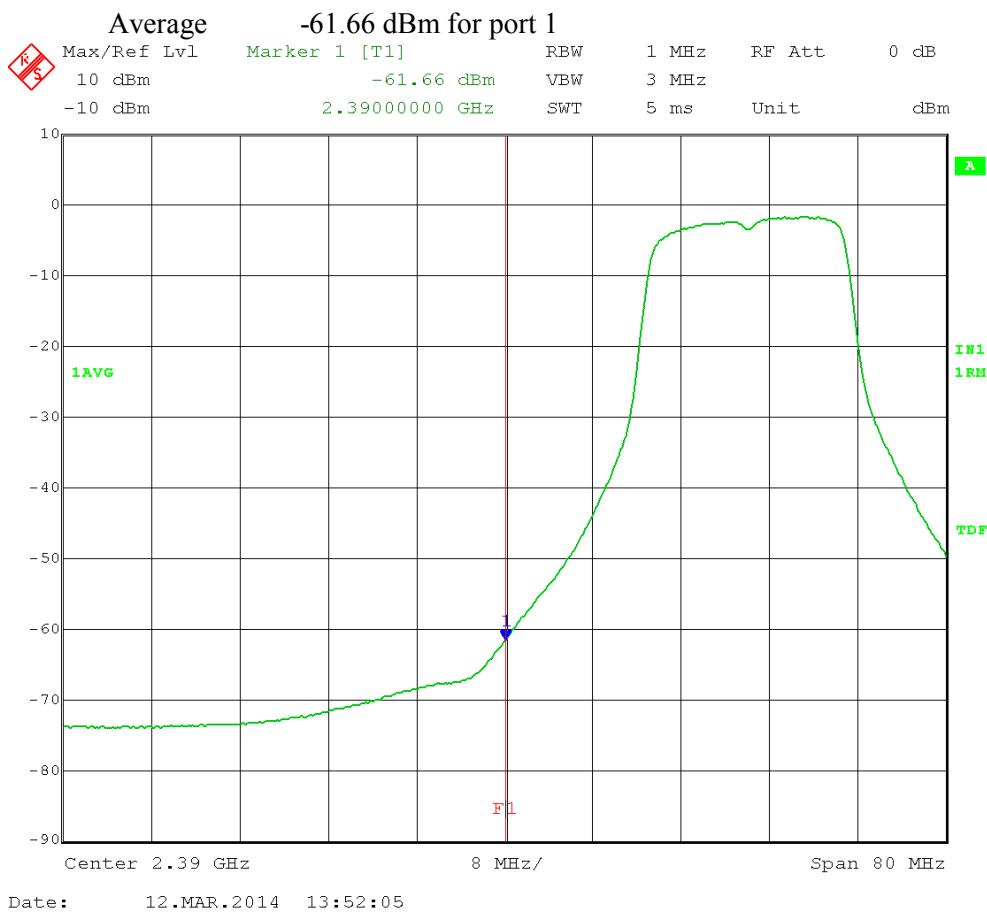
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 11.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 13:49:50

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 11.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-61.14 \text{ dBm} = 0.000000769 \text{ mW}$$

$$-61.66 \text{ dBm} = 0.000000682 \text{ mW}$$

$$\text{Total} = 0.000000769 + 0.000000682 = 0.000001451 \text{ mW} = -58.38 \text{ dBm}$$

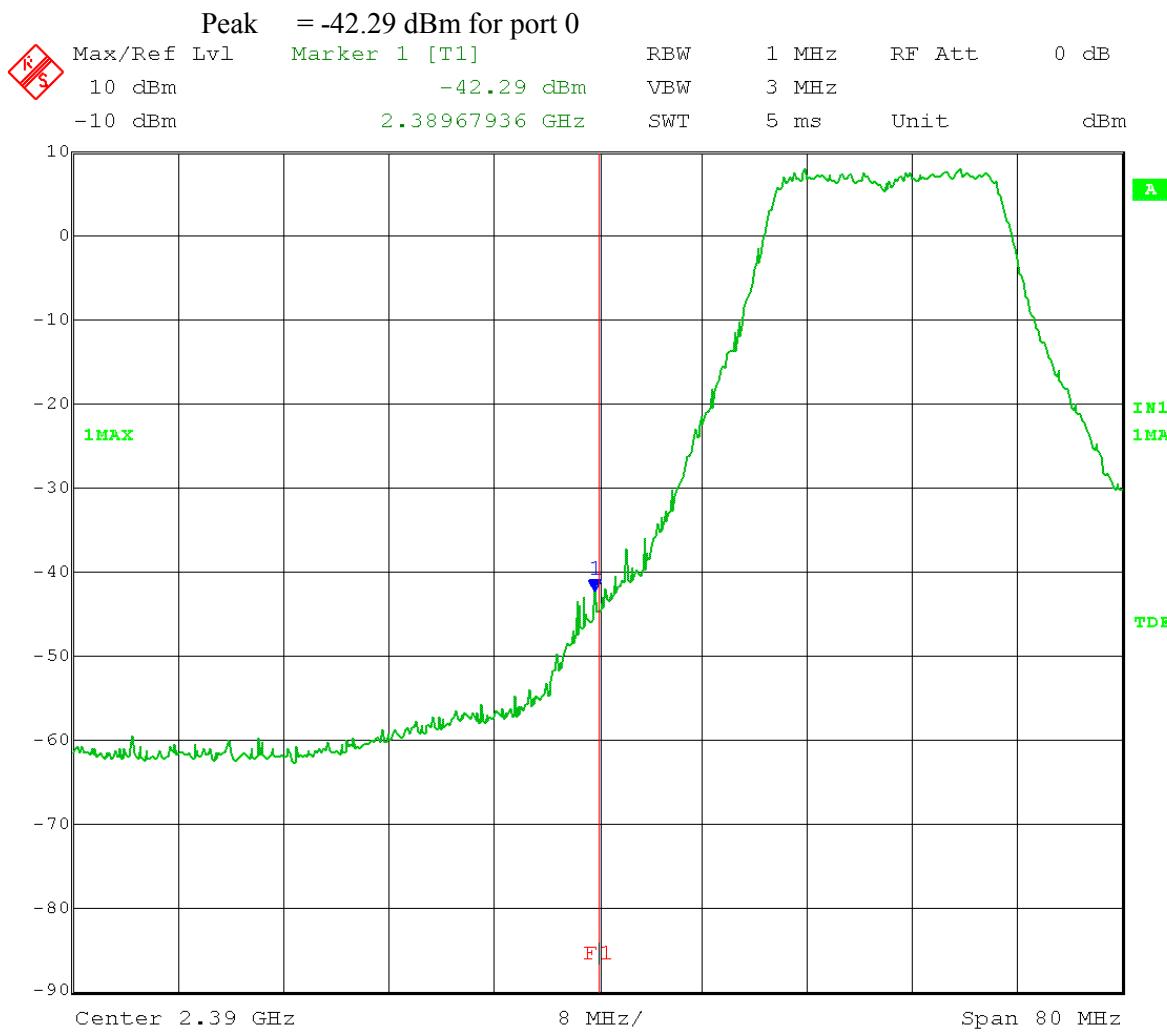
$$E = \text{EIRP} - 20\log D + 104.8$$

$$= -58.38 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.88 \text{ dB}\mu\text{V/m}$$

Margin = 0.12 (for Average limit of 54 dB μ V/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

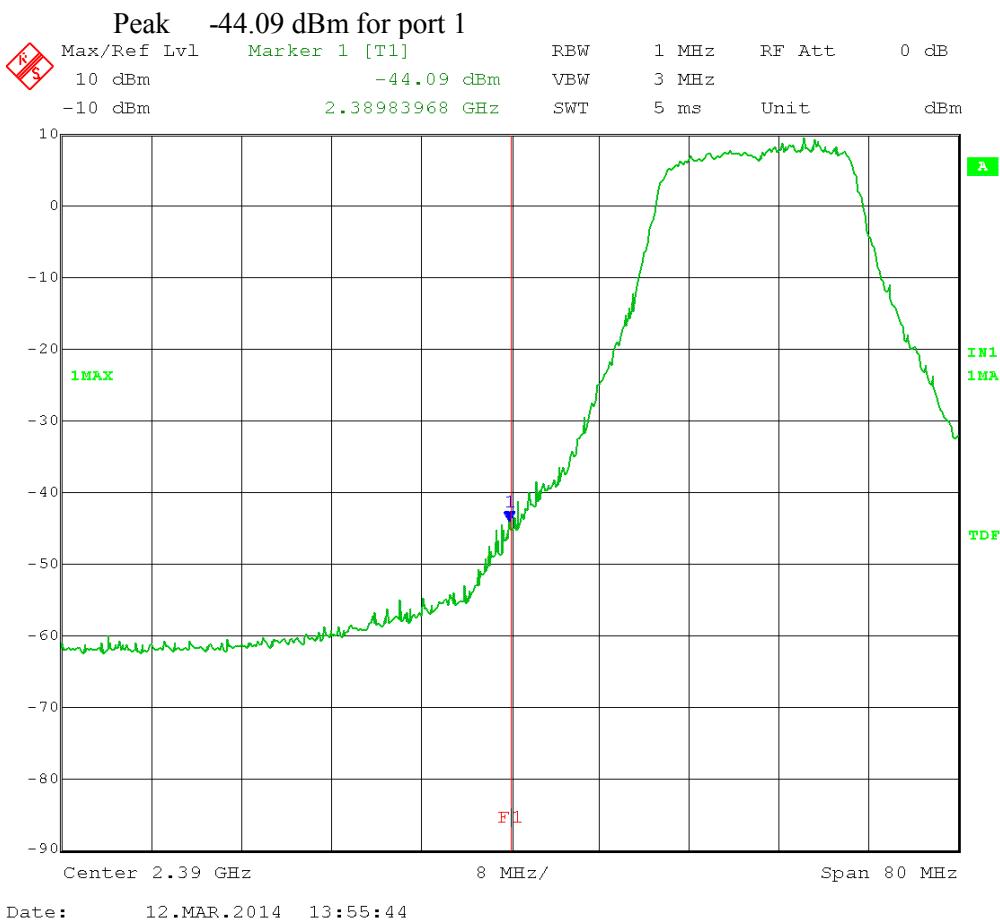
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 11.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 13:58:03

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 11.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



$$-42.29 \text{ dBm} = 0.000059020 \text{ mW}$$

$$-44.09 \text{ dBm} = 0.000038994 \text{ mW}$$

$$\text{Total} = 0.000059020 + 0.000038994 = 0.000098014 \text{ mW} = -40.08 \text{ dBm}$$

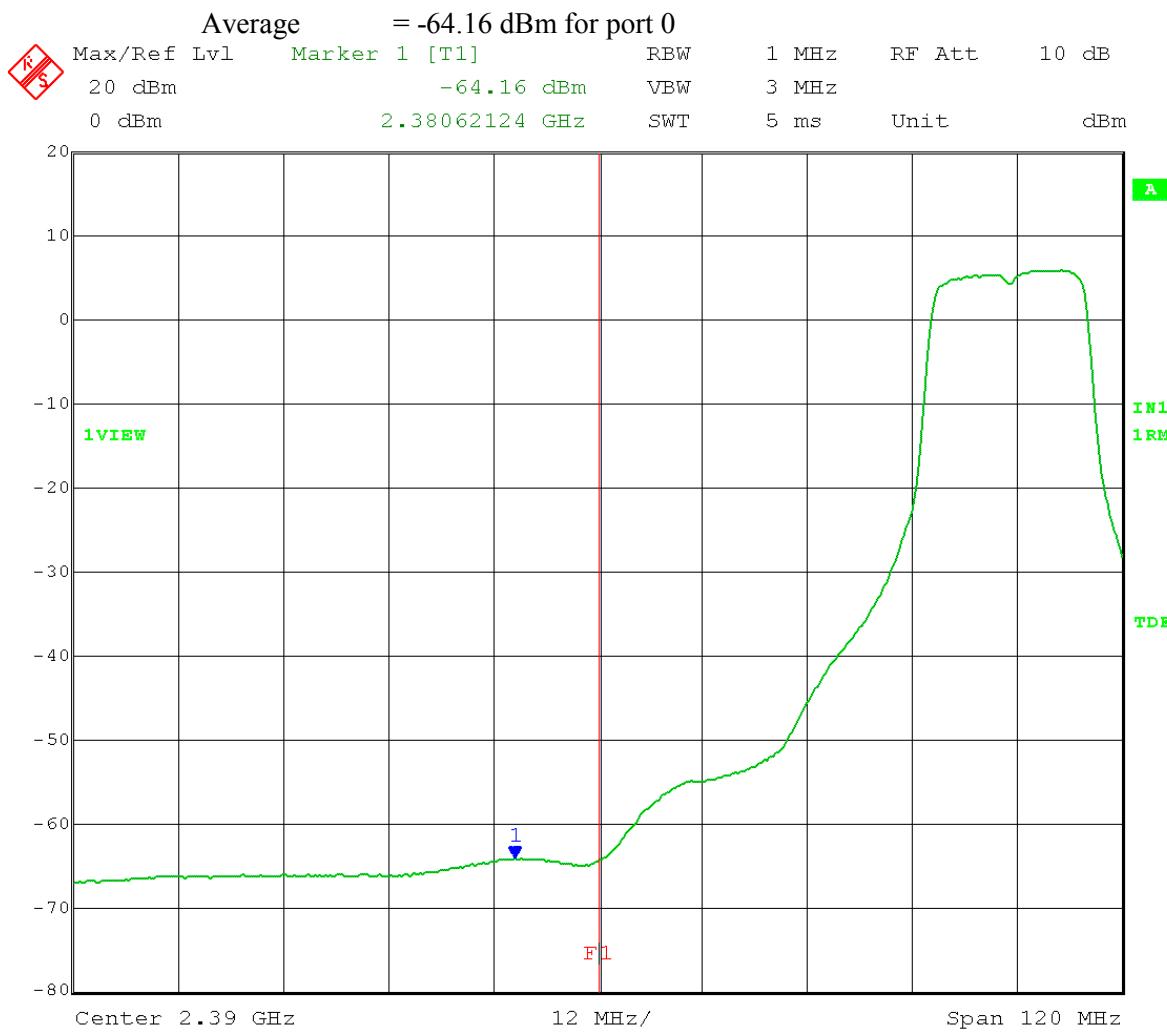
$$E = \text{EIRP} - 20\log D + 104.8$$

$$= -40.08 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 72.18 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 1.82 dB}} \text{ (for Peak limit of 74 dB}\mu\text{V/m)}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

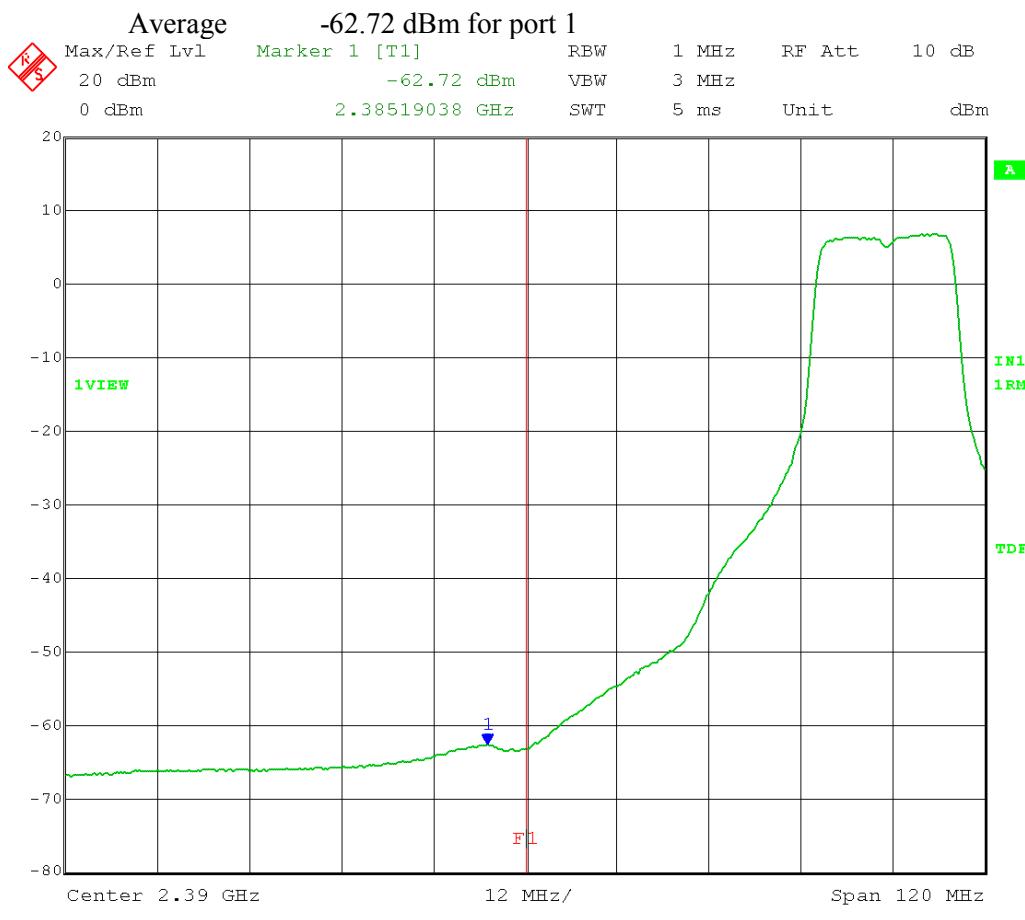
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 08:42:22

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-64.16 \text{ dBm} = 0.000000384 \text{ mW}$$

$$-62.72 \text{ dBm} = 0.000000535 \text{ mW}$$

$$\text{Total} = 0.000000384 + 0.000000535 = 0.000000919 \text{ mW} = -60.36 \text{ dBm}$$

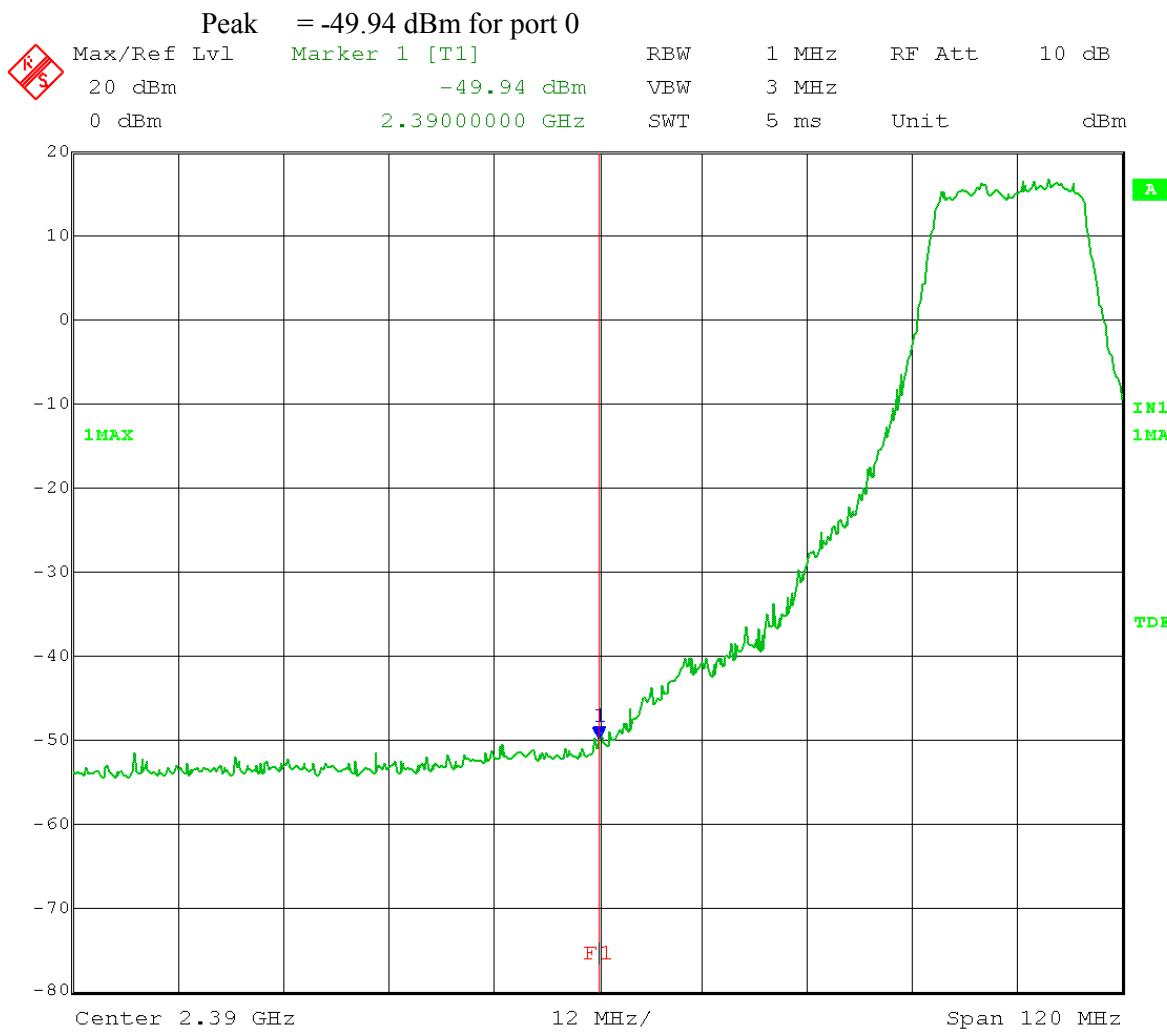
$$E = EIRP - 20\log D + 104.8$$

$$= -60.36 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 51.90 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 2.10 dB}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

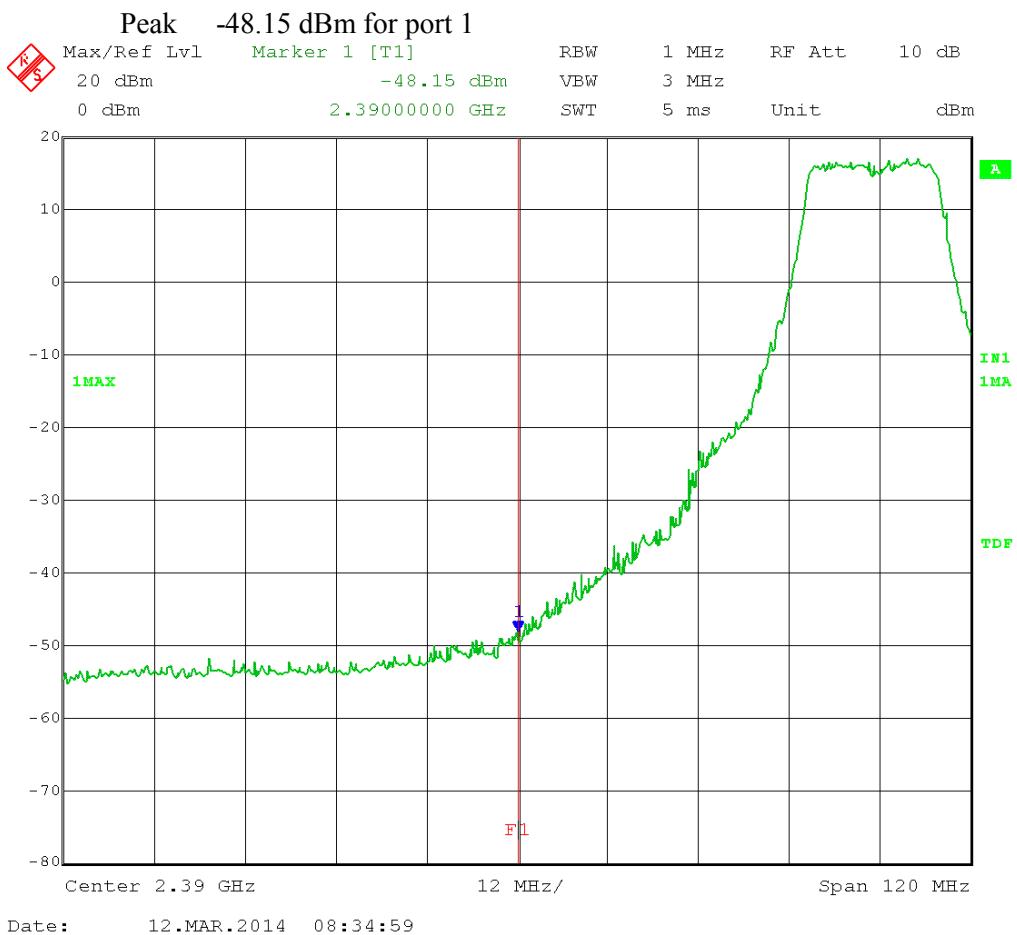
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 08:38:06

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-49.94 \text{ dBm} = 0.000010139 \text{ mW}$$

$$-48.15 \text{ dBm} = 0.000015311 \text{ mW}$$

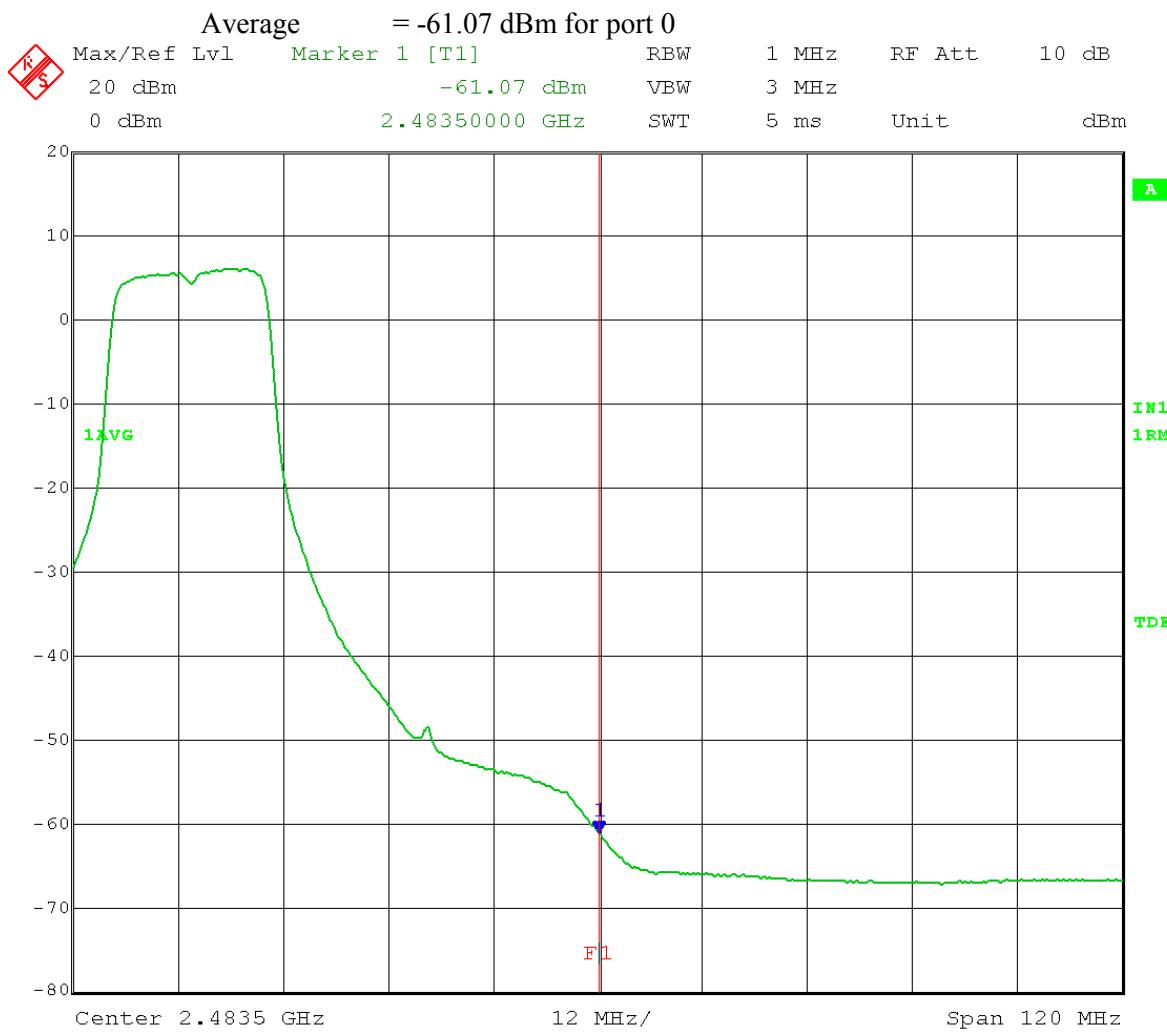
$$\text{Total} = 0.000010139 + 0.000015311 = 0.00002545 \text{ mW} = -45.94 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -45.94 \text{ dBm} + 17 \text{ dB} - 20\log 3 + 104.8 = 66.32 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 7.68 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

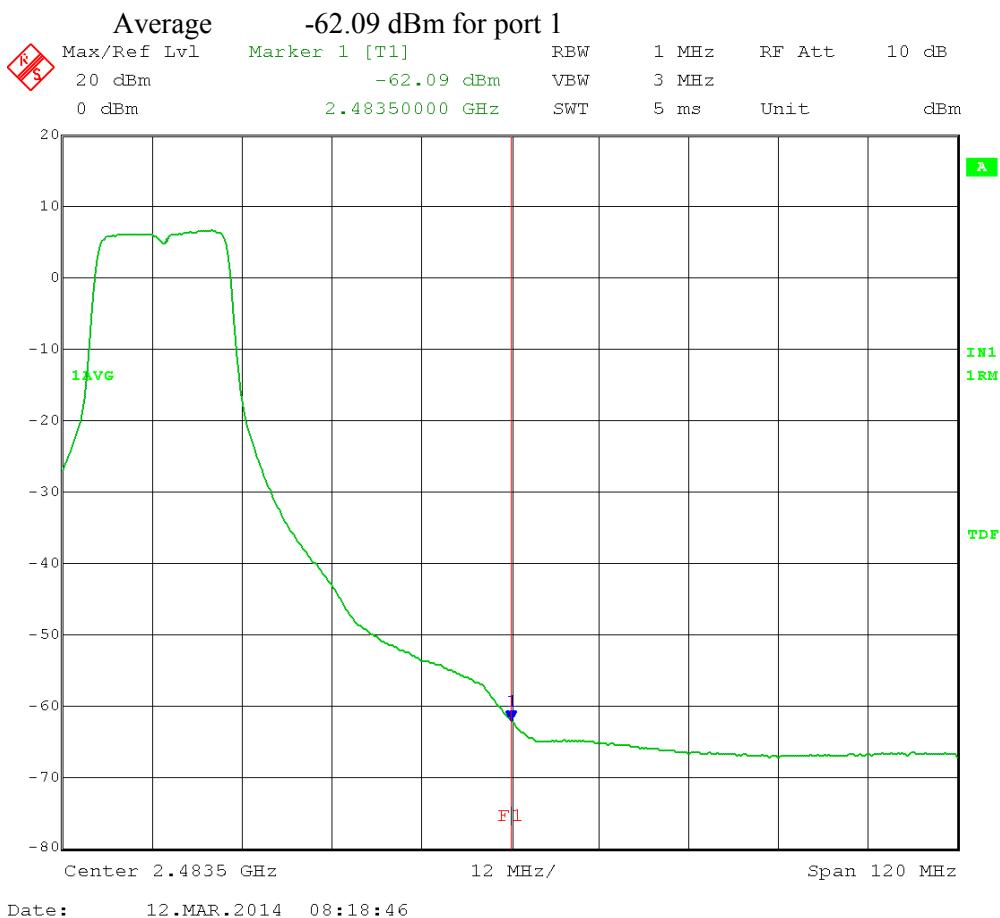
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 08:21:18

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-61.07 \text{ dBm} = 0.000000782 \text{ mW}$$

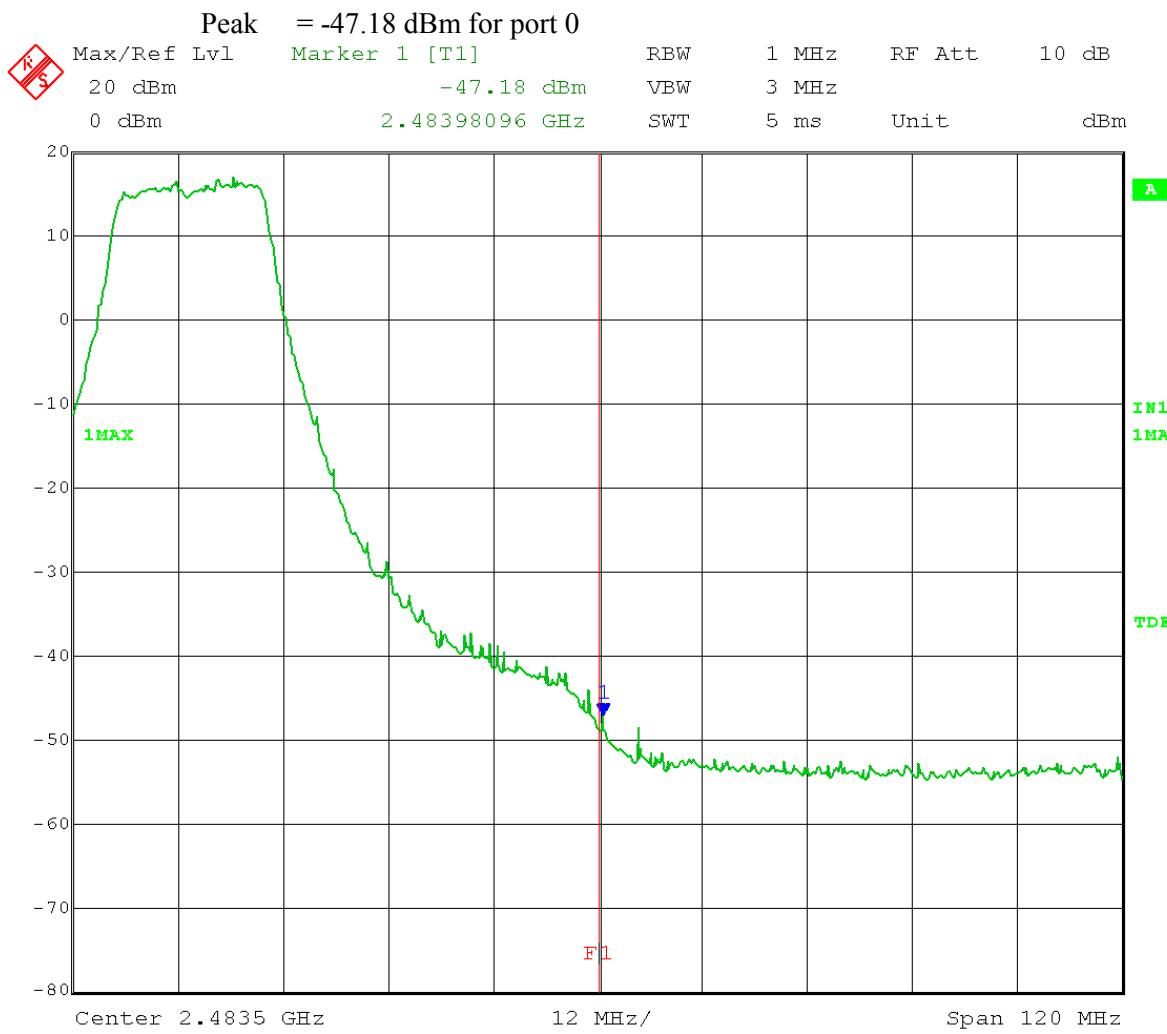
$$-62.09 \text{ dBm} = 0.000000618 \text{ mW}$$

$$\text{Total} = 0.000000782 + 0.000000618 = 0.000001400 \text{ mW} = -58.53 \text{ dBm}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -58.53 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.23 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\mathbf{0.77 \text{ dB}}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

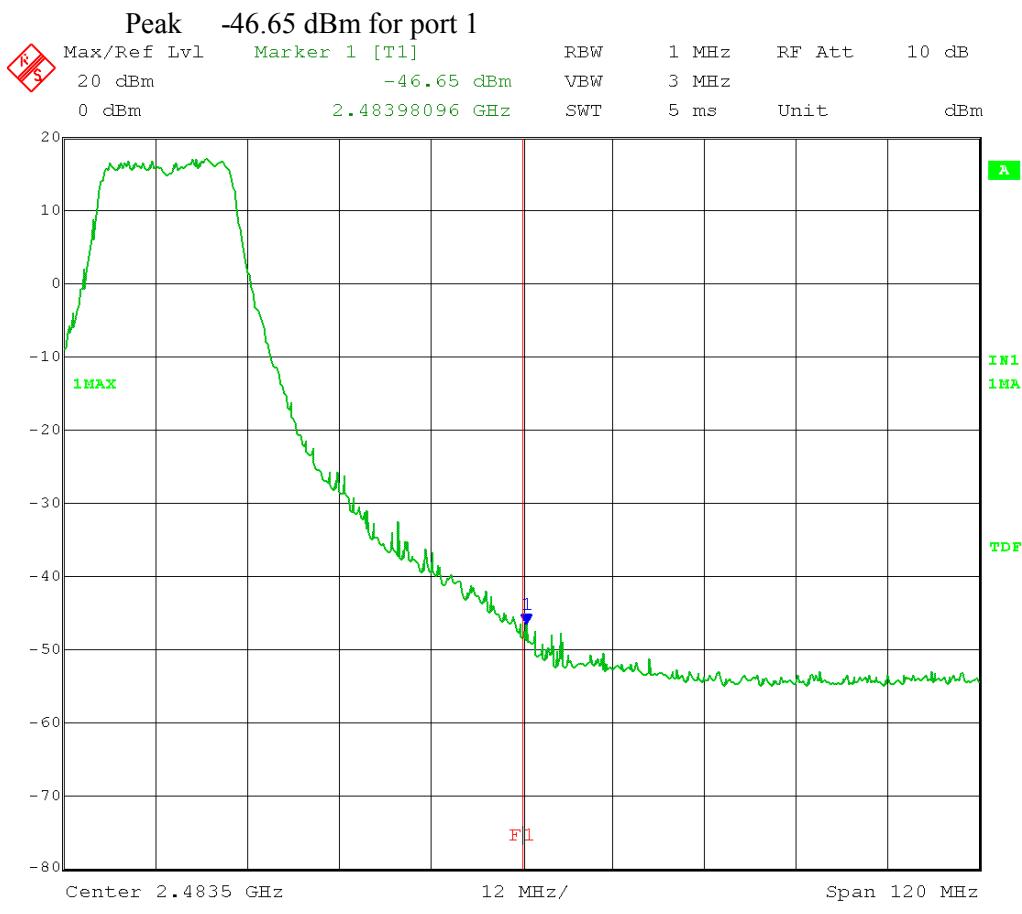
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 08:26:48

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 20.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



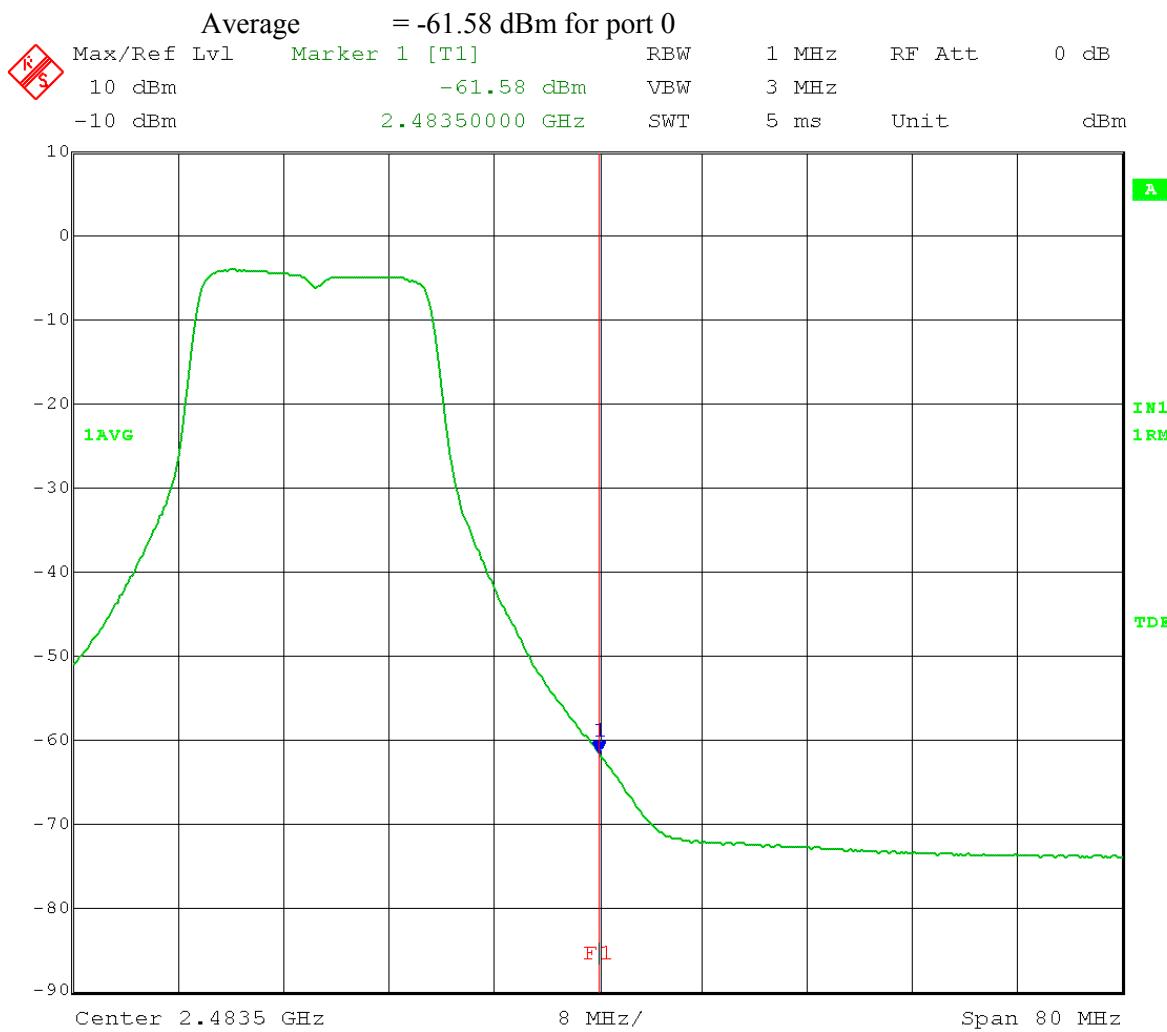
Date: 12.MAR.2014 08:29:23

$$\begin{aligned}
 -47.18 \text{ dBm} &= 0.000019143 \text{ mW} \\
 -46.65 \text{ dBm} &= 0.000021627 \text{ mW} \\
 \text{Total} &= 0.000019143 + 0.000021627 = 0.00004077 \text{ mW} = -43.89 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -43.89 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 68.37 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{5.63 dB}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

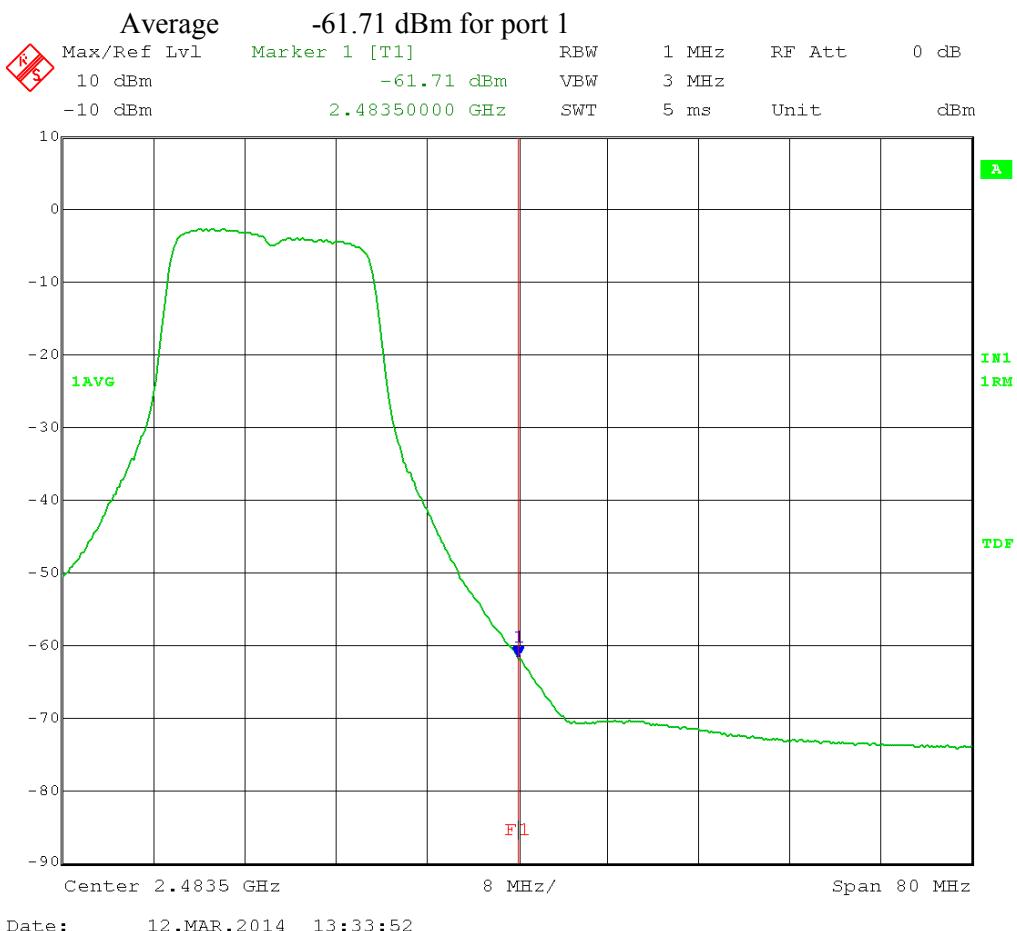
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 High Channel Transmit = 2.462 GHz
 Test software power setting: 10
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 13:32:15

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 High Channel Transmit = 2.462 GHz
 Test software power setting: 10
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-61.58 \text{ dBm} = 0.000000695 \text{ mW}$$

$$-61.71 \text{ dBm} = 0.000000675 \text{ mW}$$

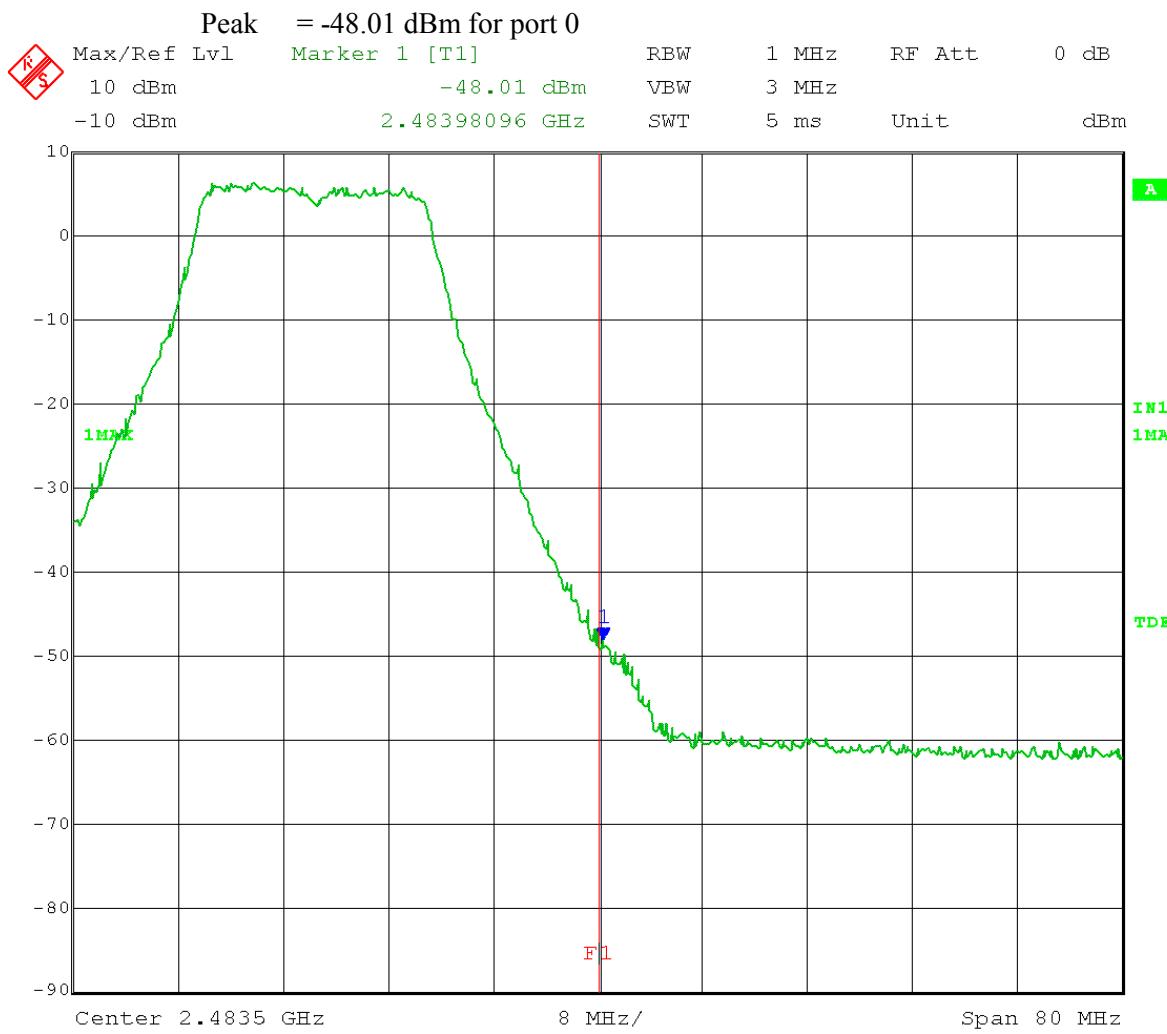
$$\text{Total} = 0.000000695 + 0.000000675 = 0.000001370 \text{ mW} = -58.63 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -58.63 \text{ dBm} + 17 \text{ dB}i - 20\log 3 + 104.8 = 53.63 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 0.37 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

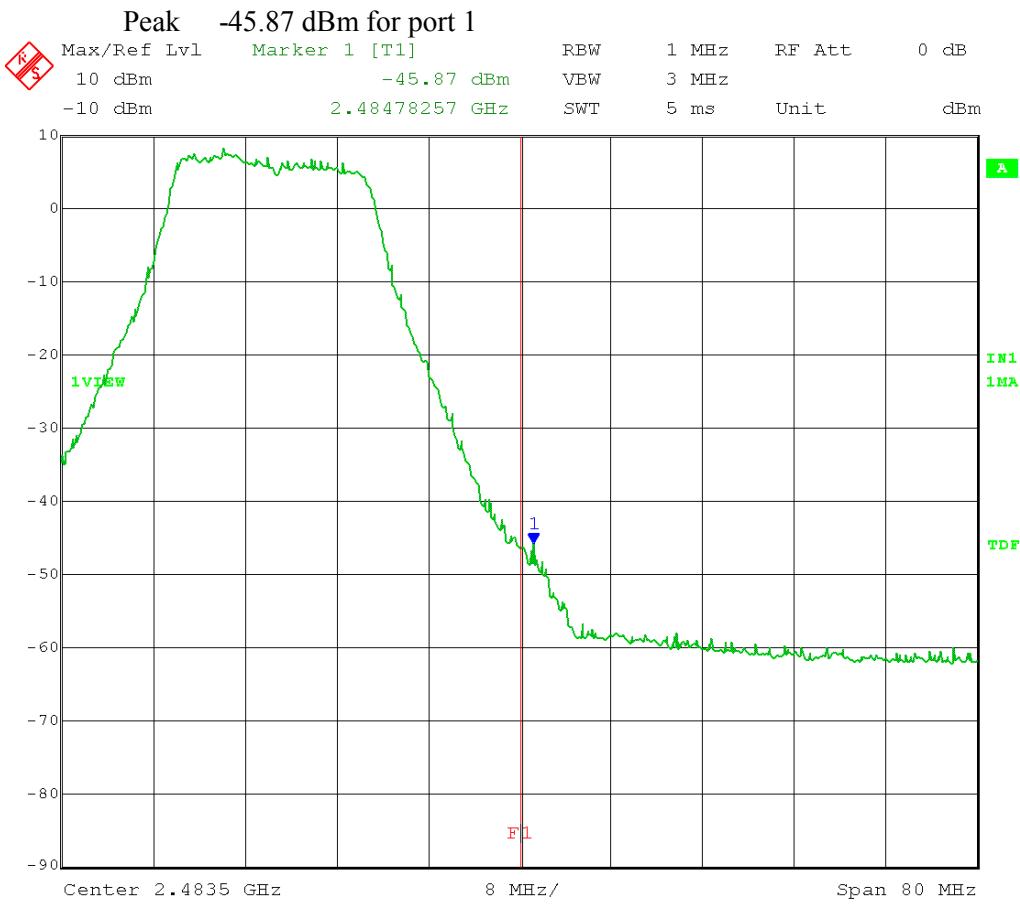
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 10
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 13:40:57

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 10
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



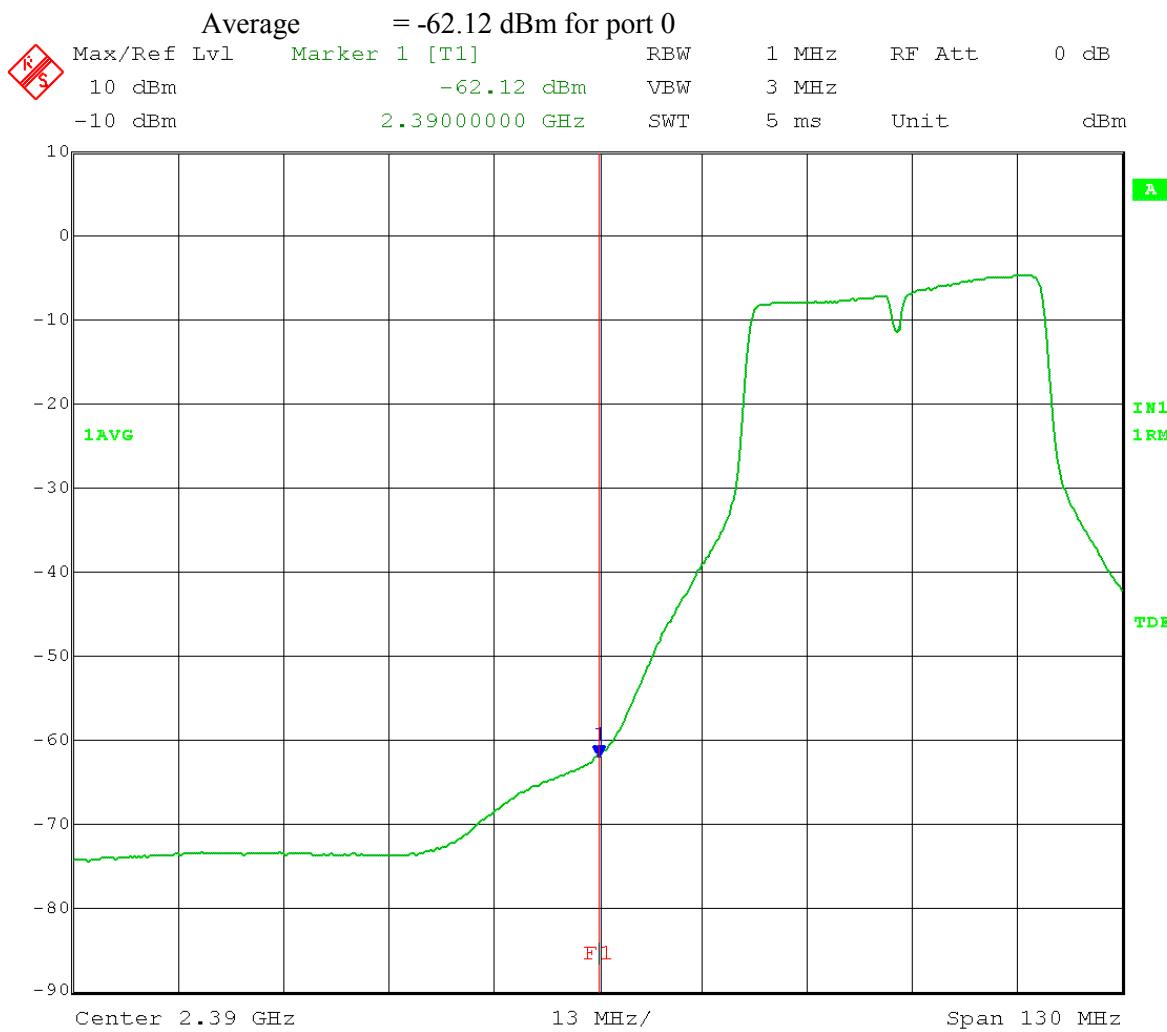
Date: 12.MAR.2014 13:38:31

$$\begin{aligned}
 -48.01 \text{ dBm} &= 0.000015812 \text{ mW} \\
 -45.87 \text{ dBm} &= 0.000025882 \text{ mW} \\
 \text{Total} &= 0.000015812 + 0.000025882 = 0.000041694 \text{ mW} = -43.79 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -43.79 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 68.47 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\underline{5.53 \text{ dB}}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

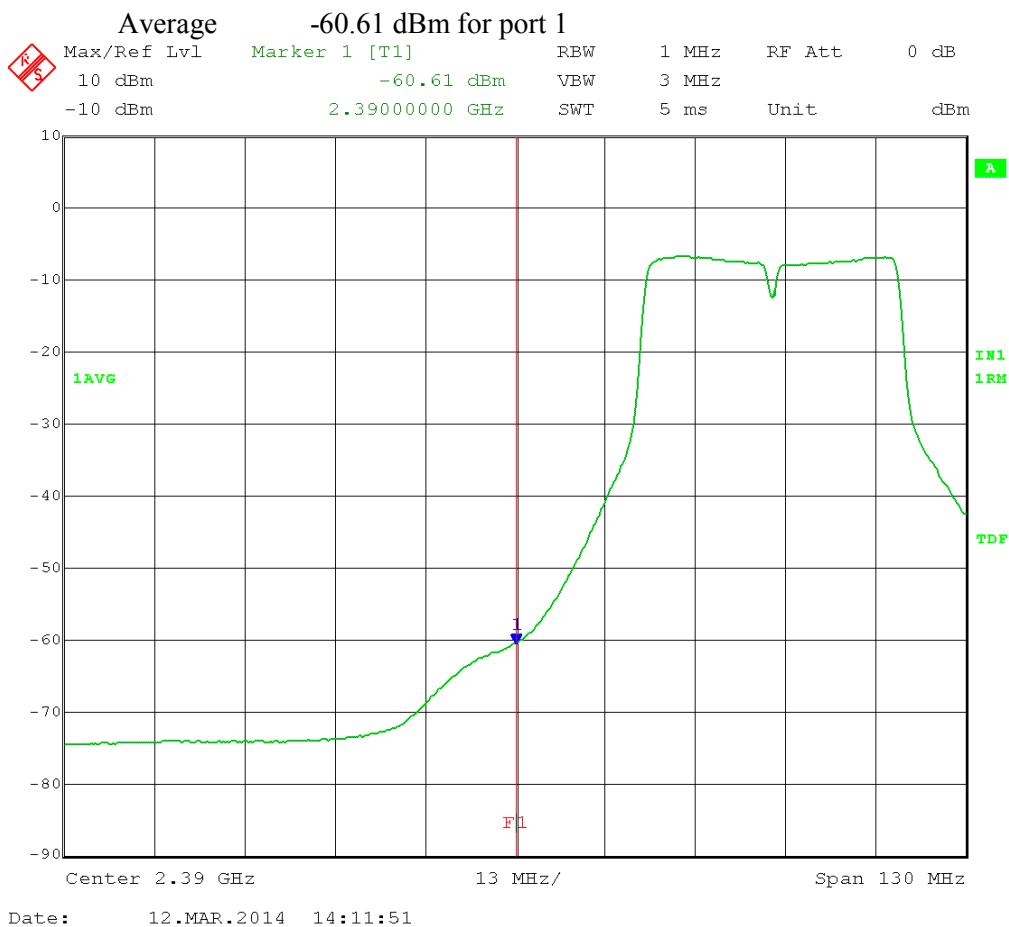
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 14:13:54

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-62.12 \text{ dBm} = 0.000000614 \text{ mW}$$

$$-60.61 \text{ dBm} = 0.000000869 \text{ mW}$$

$$\text{Total} = 0.000000614 + 0.000000869 = 0.000001483 \text{ mW} = -58.28 \text{ dBm}$$

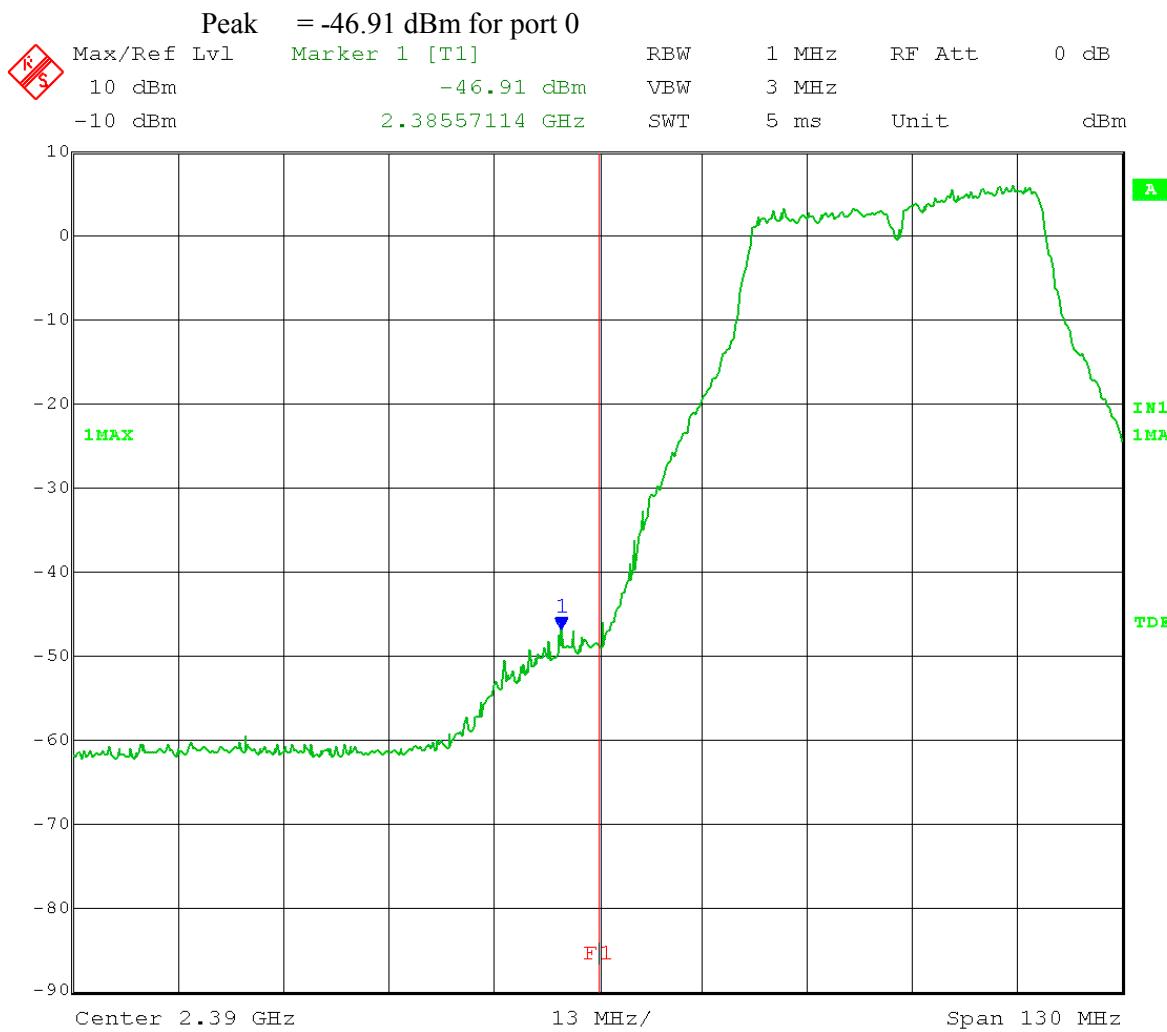
$$E = \text{EIRP} - 20\log D + 104.8$$

$$= -58.28 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.98 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 0.02}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

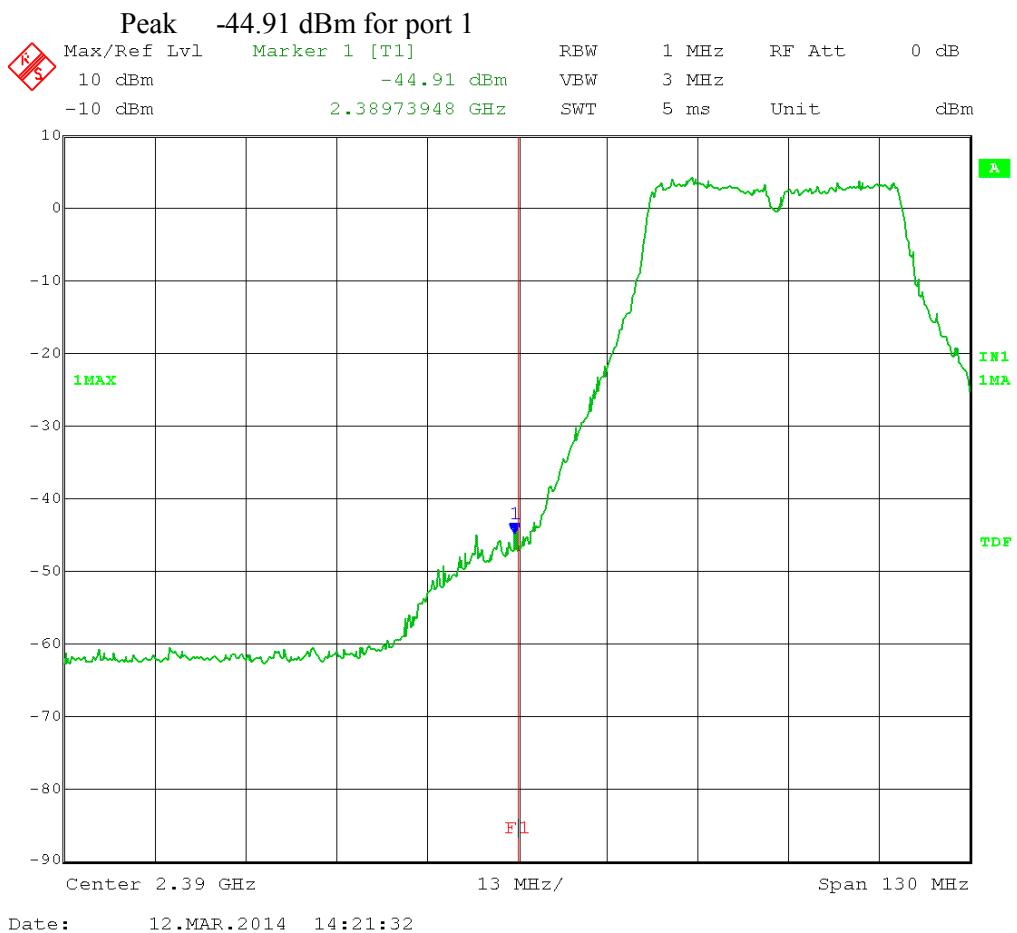
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 14:18:44

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-46.91 \text{ dBm} = 0.000020370 \text{ mW}$$

$$-44.91 \text{ dBm} = 0.000032285 \text{ mW}$$

$$\text{Total} = 0.000020370 + 0.000032285 = 0.000052655 \text{ mW} = -42.78 \text{ dBm}$$

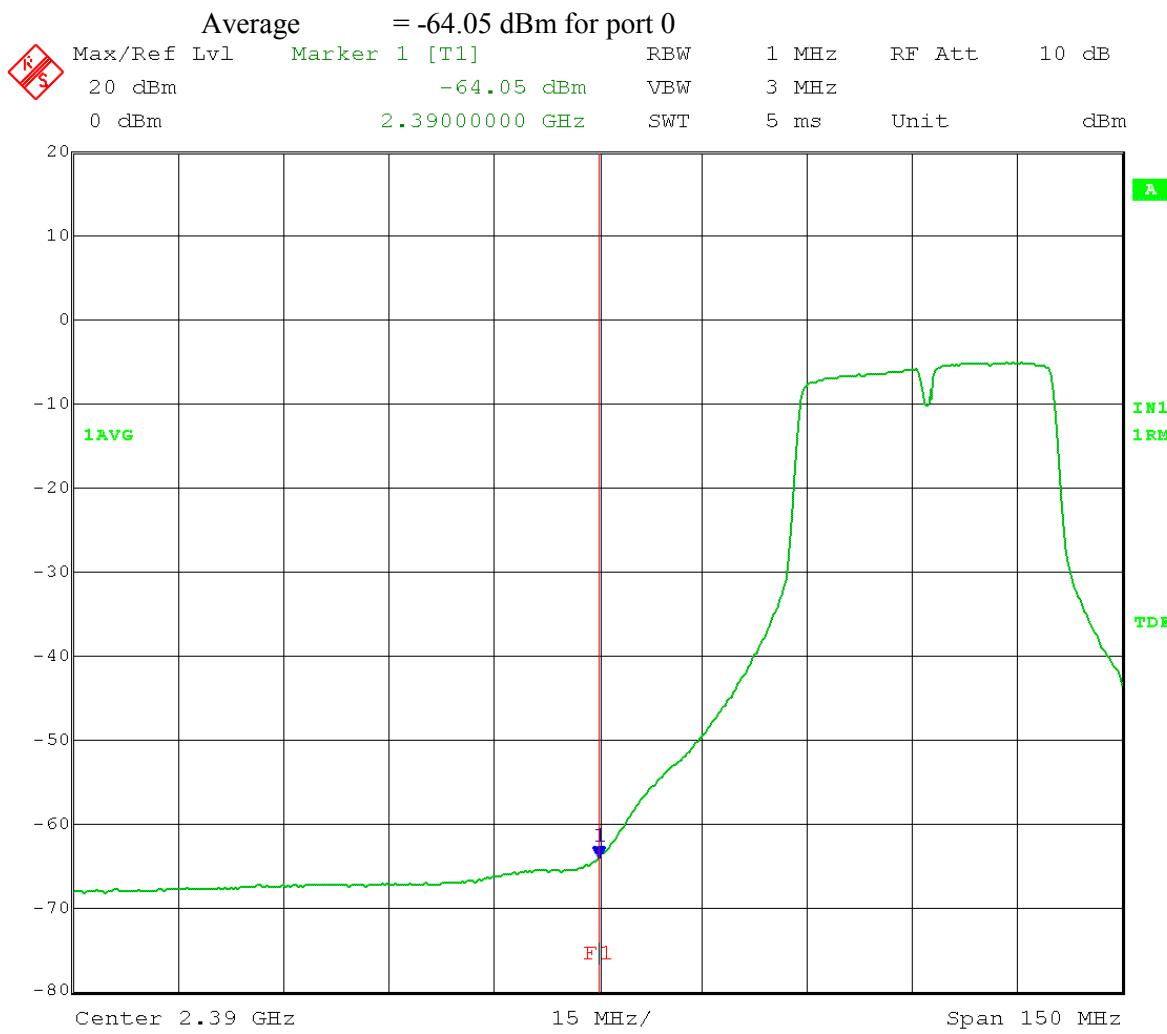
$$E = EIRP - 20\log D + 104.8$$

$$= -42.78 \text{ dBm} + 17 \text{ dB} - 20\log 3 + 104.8 = 69.48 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 4.52 dB}} \text{ (for Peak limit of 74 dB}\mu\text{V/m)}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

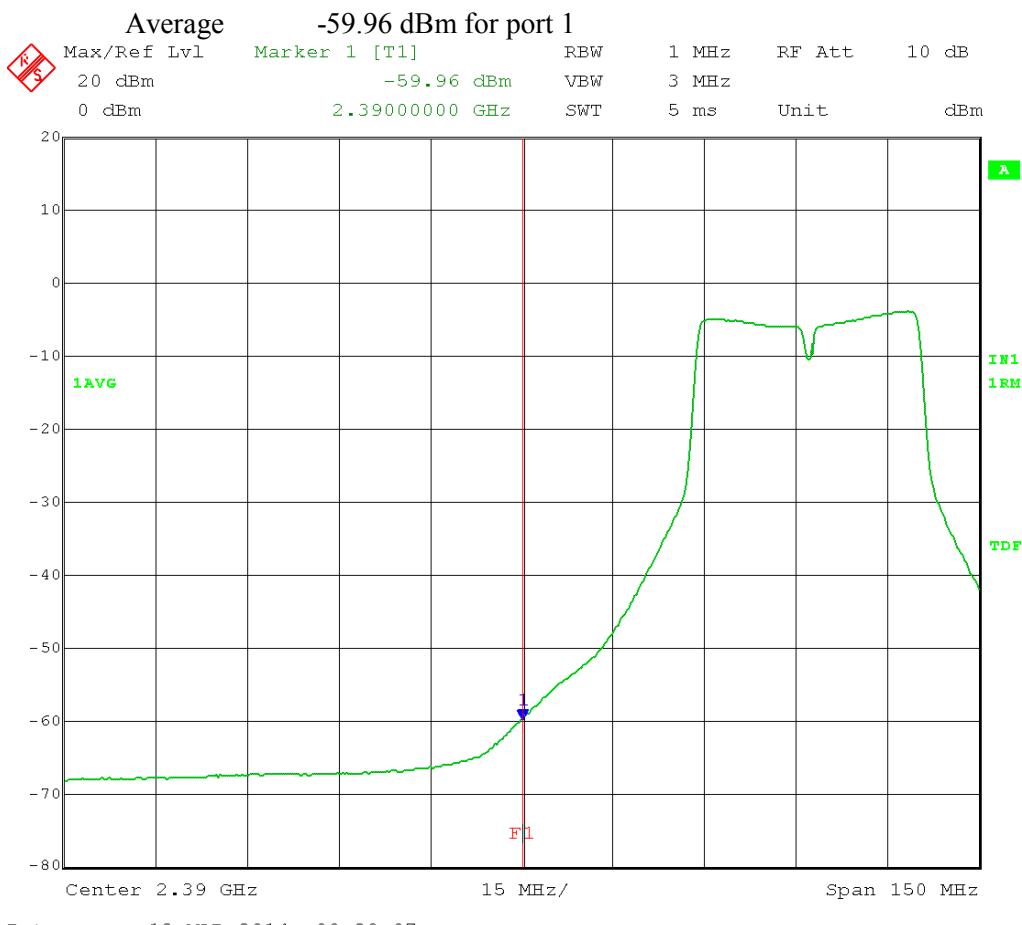
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 09:42:50

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15

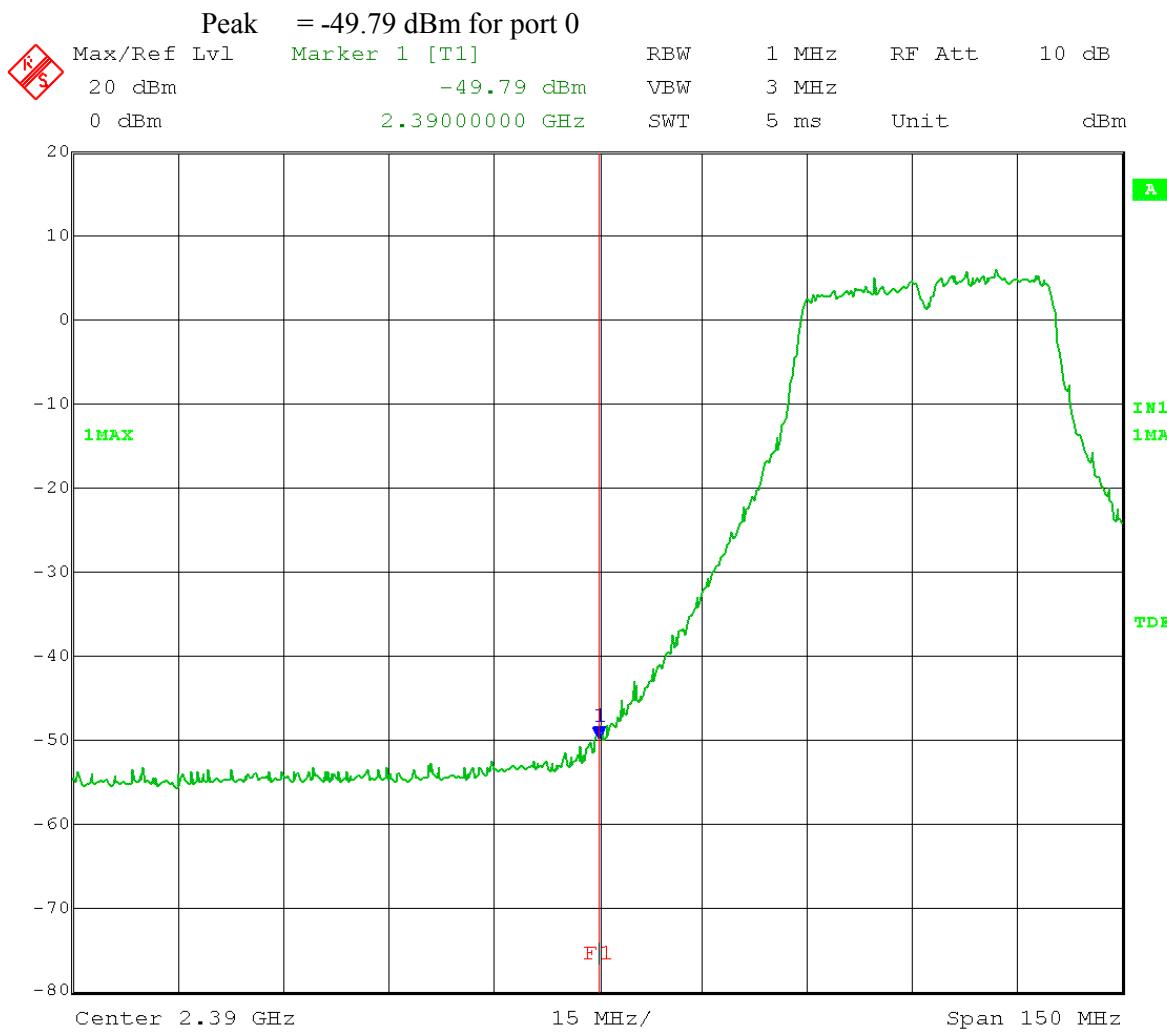


$$\begin{aligned}
 -64.05 \text{ dBm} &= 0.000000394 \text{ mW} \\
 -59.96 \text{ dBm} &= 0.000001009 \text{ mW} \\
 \text{Total} &= 0.000000394 + 0.000001009 = 0.000001403 \text{ mW} = -58.53 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -58.53 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.73 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{0.27 dB}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

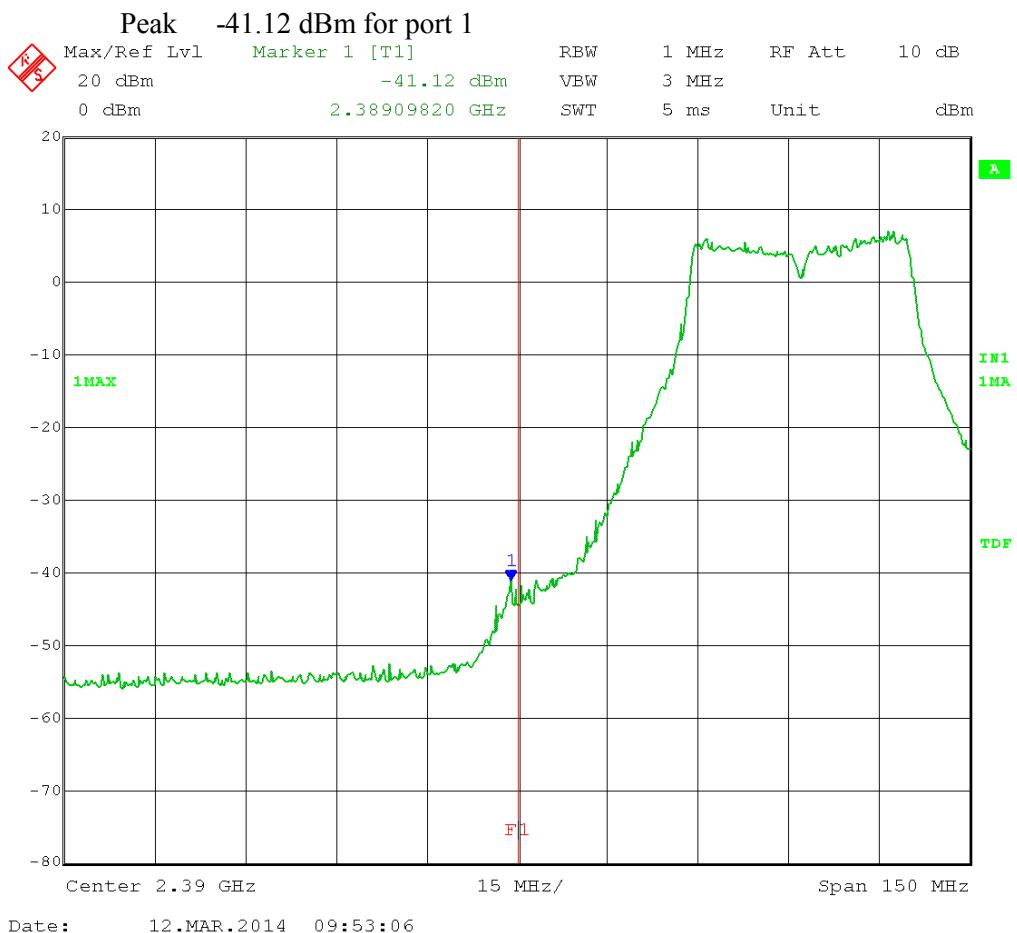
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 09:47:15

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-49.79 \text{ dBm} = 0.000010495 \text{ mW}$$

$$-41.12 \text{ dBm} = 0.000077268 \text{ mW}$$

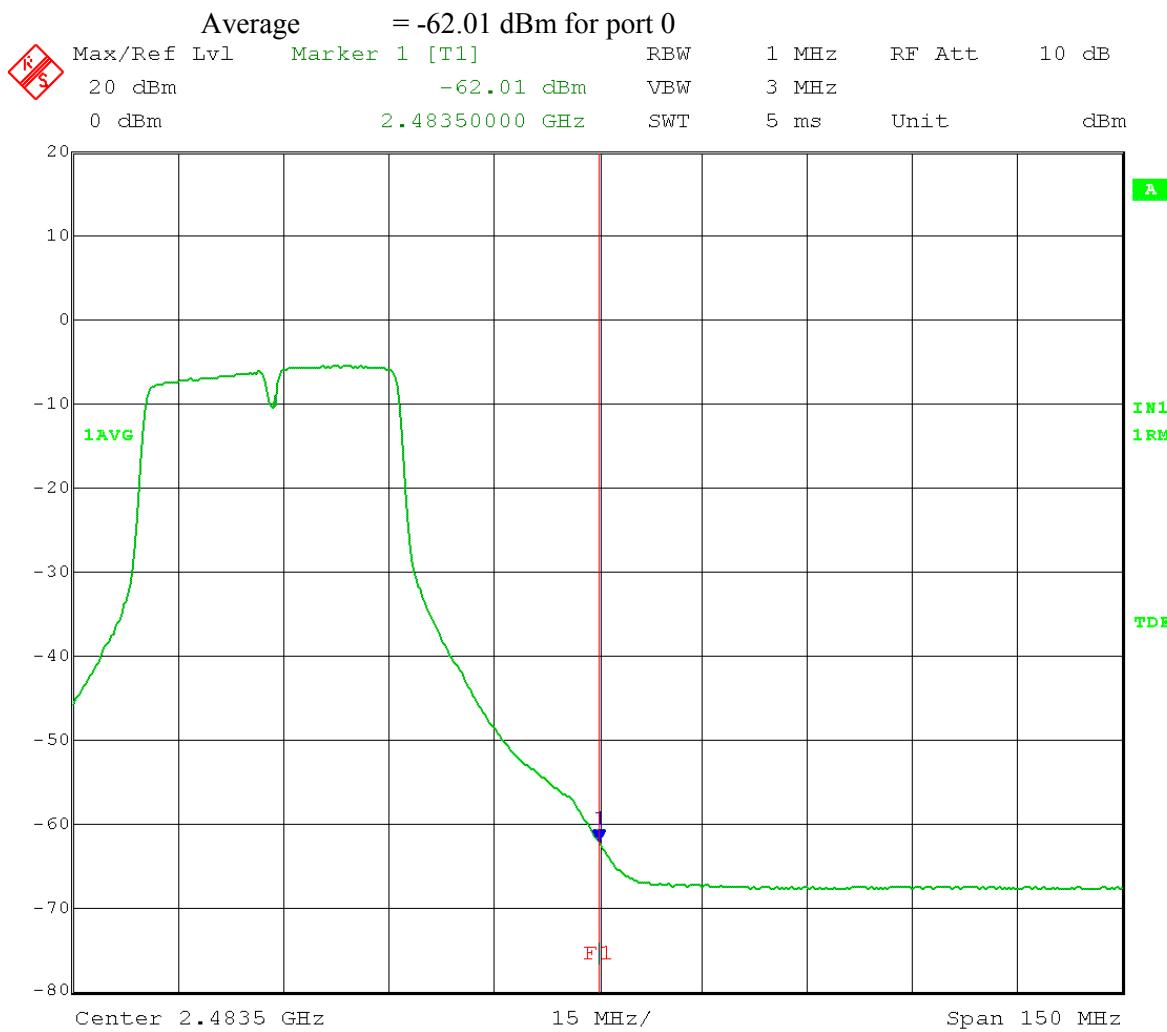
$$\text{Total} = 0.000010495 + 0.000077268 = 0.000087763 \text{ mW} = -40.56 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -40.56 \text{ dBm} + 17 \text{ dB} - 20\log 3 + 104.8 = 71.70 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 2.30 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

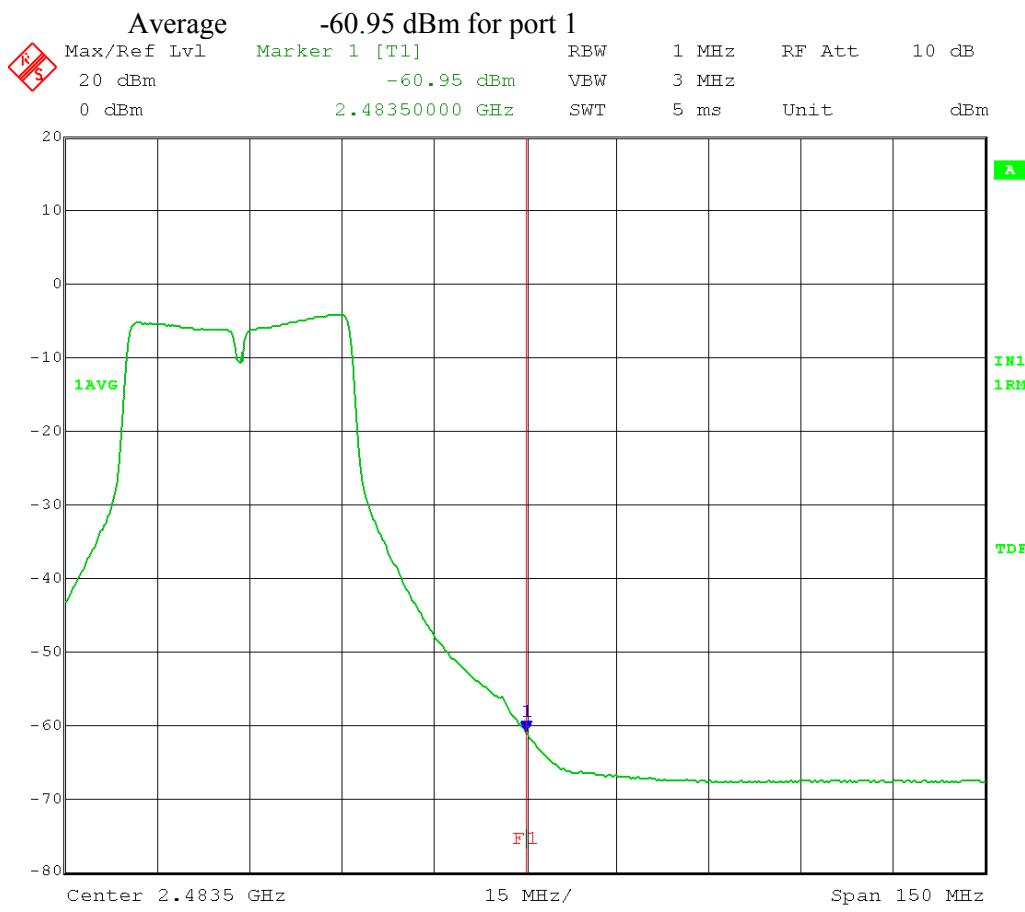
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 09:10:05

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-62.01 \text{ dBm} = 0.000000630 \text{ mW}$$

$$-60.95 \text{ dBm} = 0.000000804 \text{ mW}$$

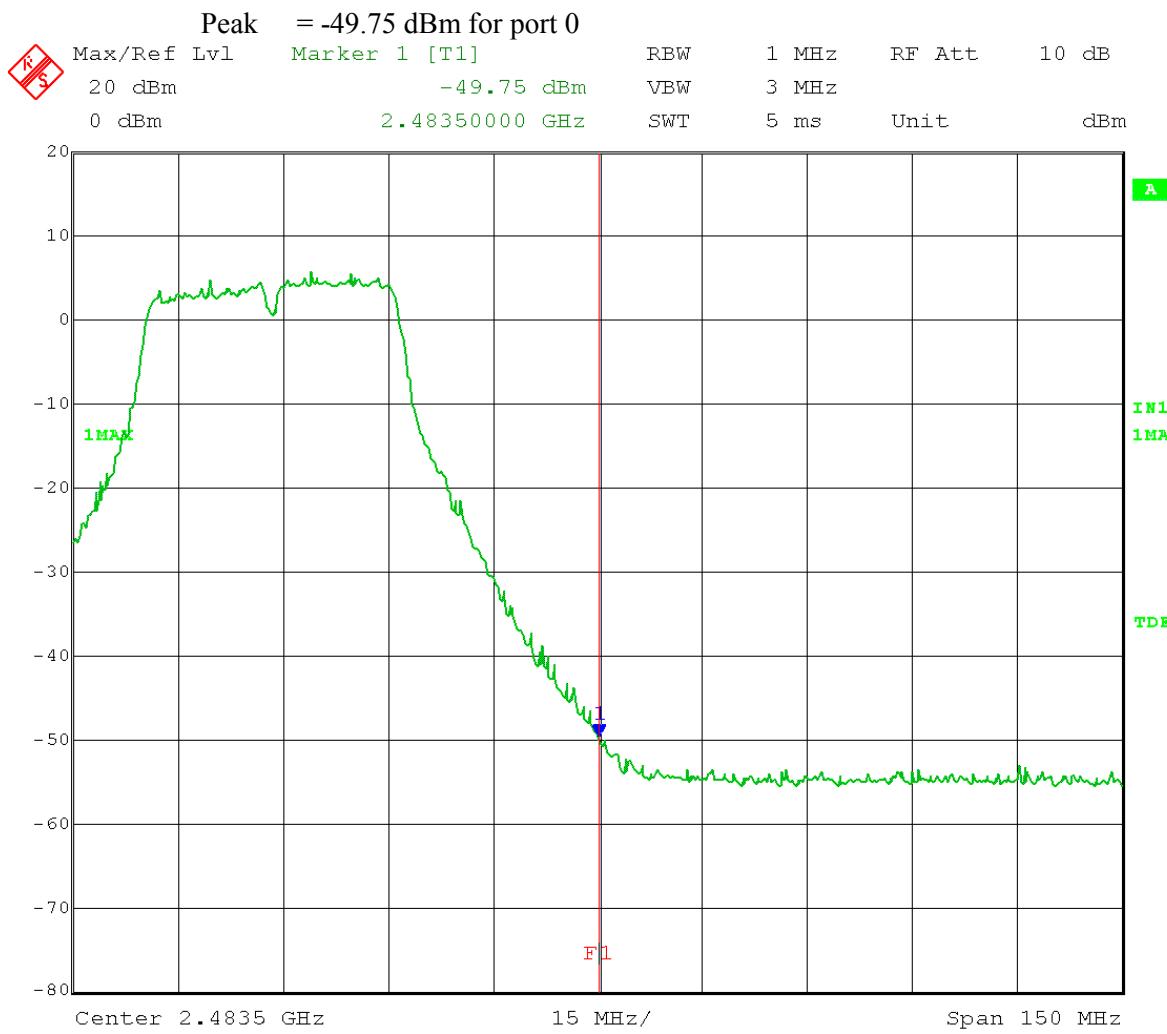
$$\text{Total} = 0.000000630 + 0.000000804 = 0.000001434 \text{ mW} = -58.43 \text{ dBm}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -58.43 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.83 \text{ dB}\mu\text{V/m}
 \end{aligned}$$

Margin = 0.17 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

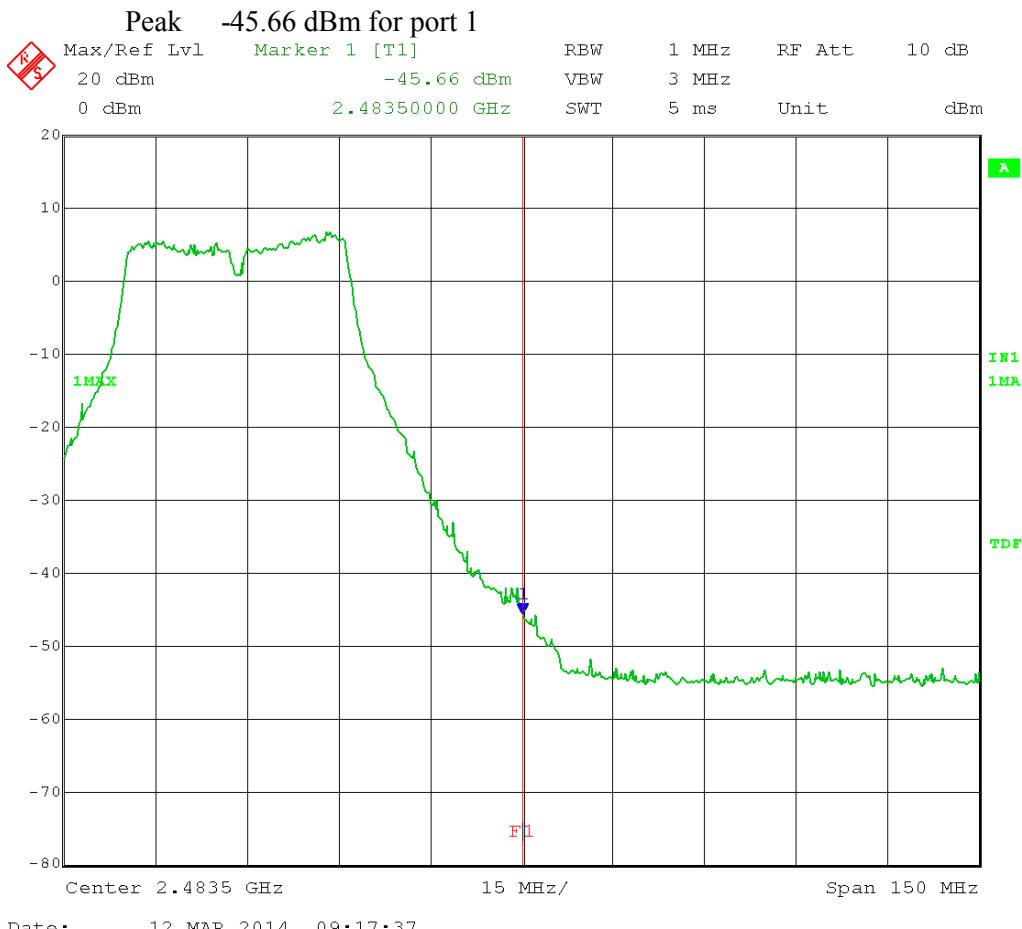
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 09:14:39

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 11.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15

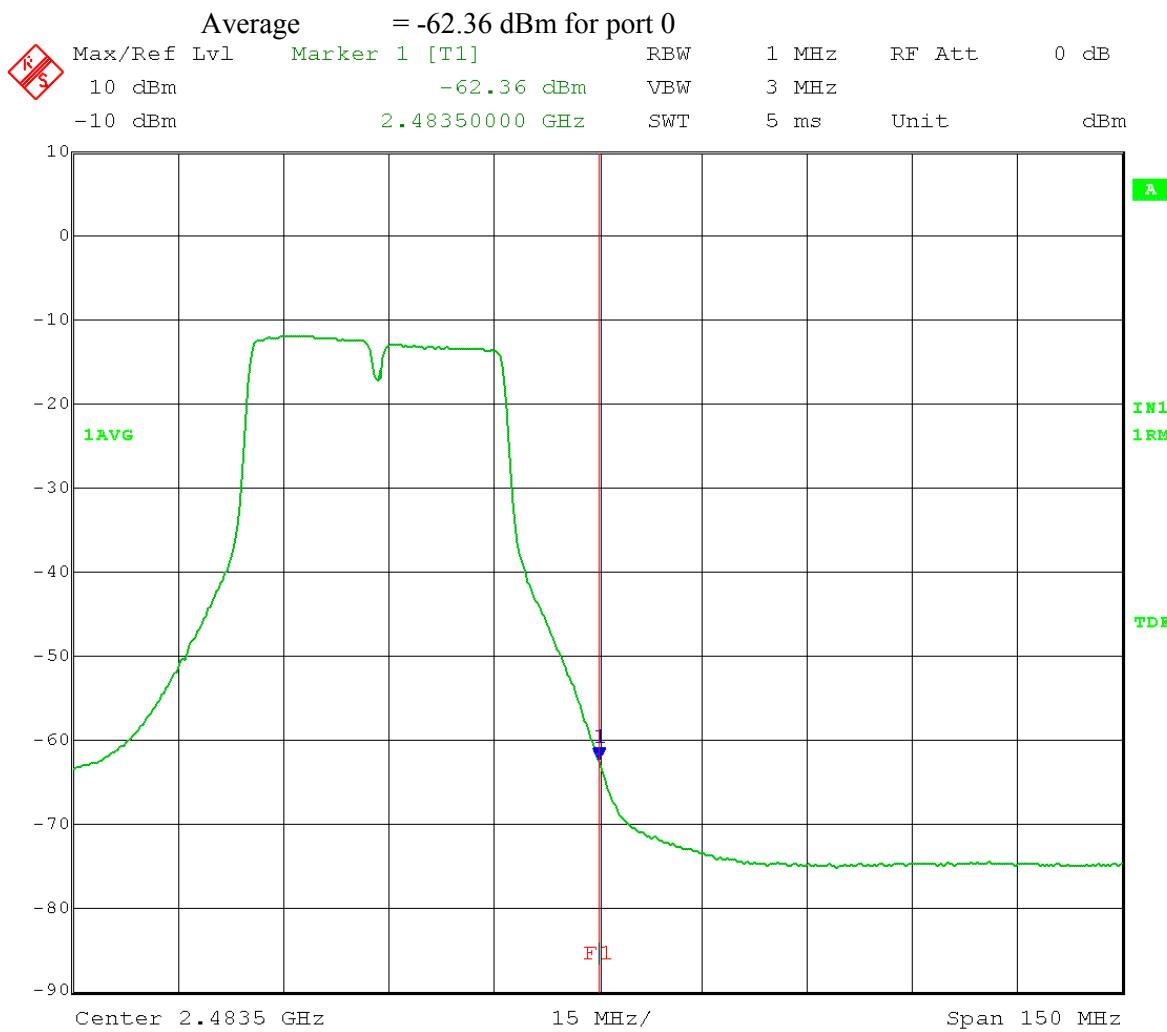


$$\begin{aligned}
 -49.75 \text{ dBm} &= 0.000010593 \text{ mW} \\
 -45.66 \text{ dBm} &= 0.000027164 \text{ mW} \\
 \text{Total} &= 0.000010593 + 0.000027164 = 0.000037757 \text{ mW} = -44.23 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -44.23 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 68.03 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\mathbf{5.97 \text{ dB}}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

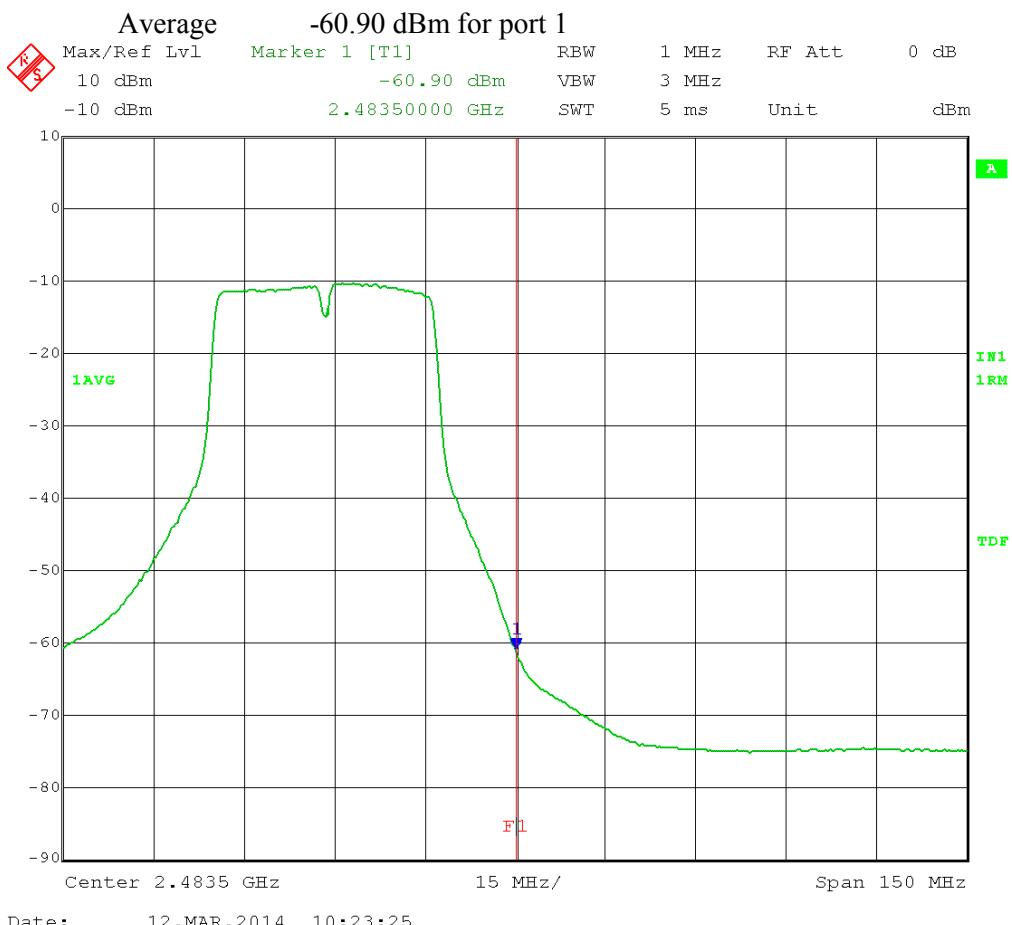
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software power setting: 6.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 10:21:53

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software power setting: 6.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-62.36 \text{ dBm} = 0.000000581 \text{ mW}$$

$$-60.90 \text{ dBm} = 0.000000813 \text{ mW}$$

$$\text{Total} = 0.000000581 + 0.000000813 = 0.000001394 \text{ mW} = -58.55 \text{ dBm}$$

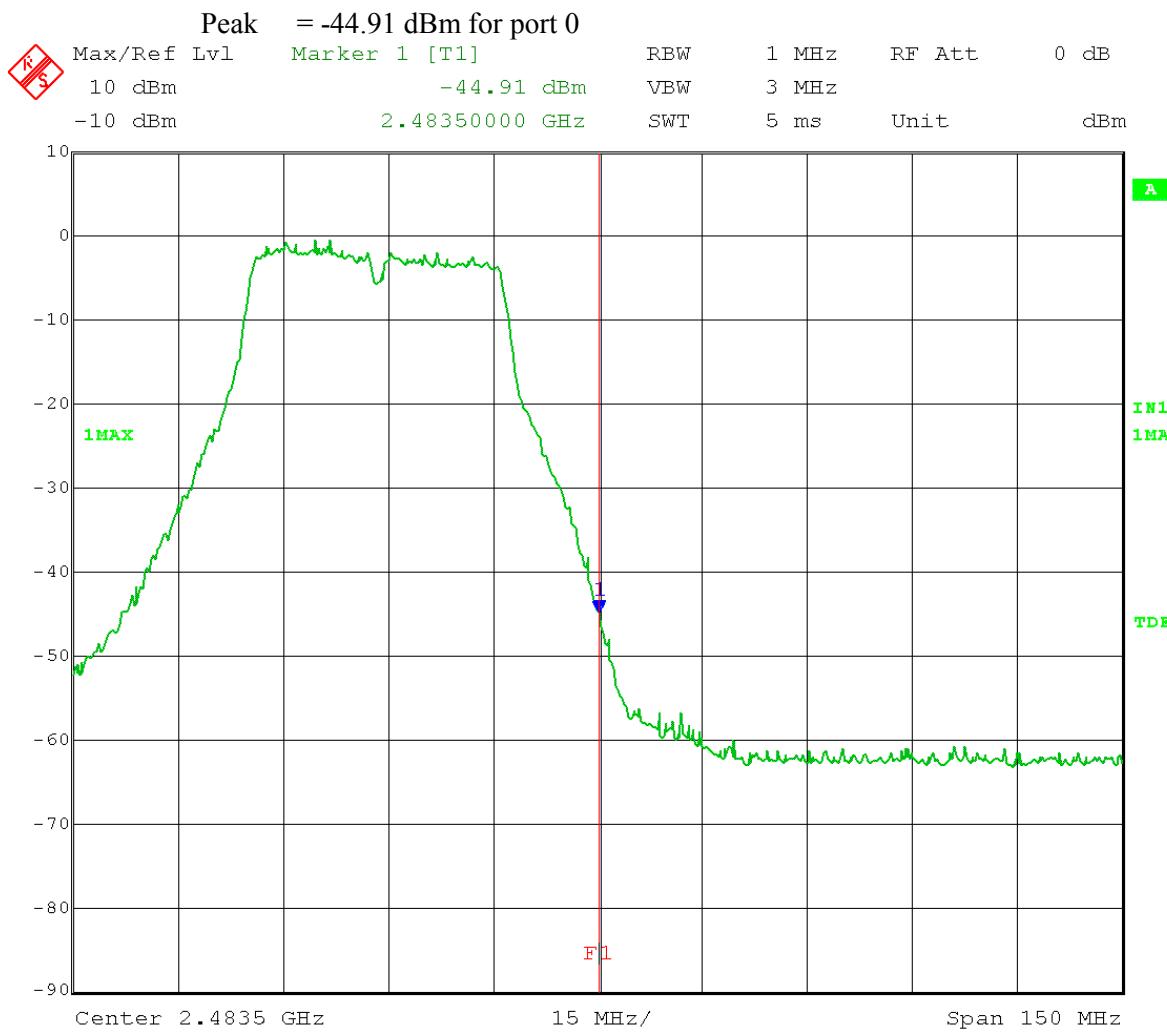
$$E = \text{EIRP} - 20\log D + 104.8$$

$$= -58.55 \text{ dBm} + 17 \text{ dBi} - 20\log 3 + 104.8 = 53.71 \text{ dB}\mu\text{V/m}$$

Margin = 0.29 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

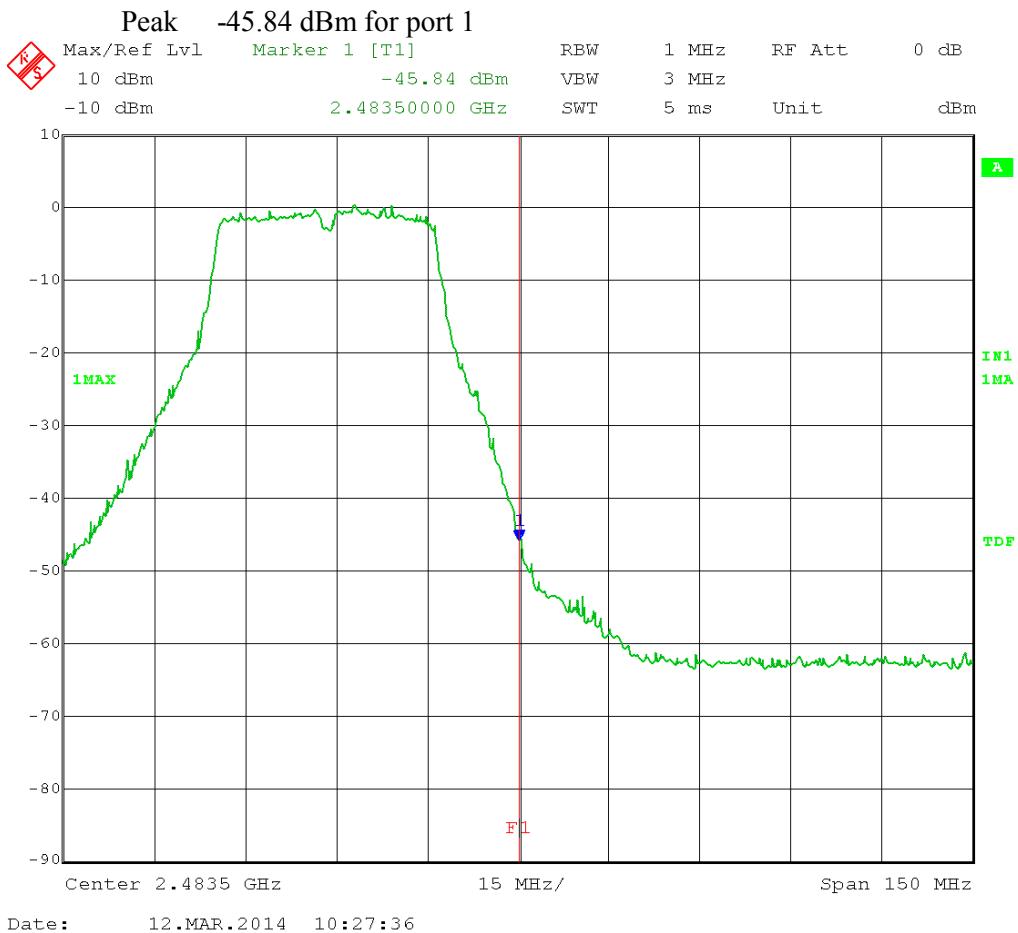
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 6.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 12.MAR.2014 10:31:03

Test Date: 03-12-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 6.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-44.91 \text{ dBm} = 0.000032285 \text{ mW}$$

$$-45.84 \text{ dBm} = 0.000026062 \text{ mW}$$

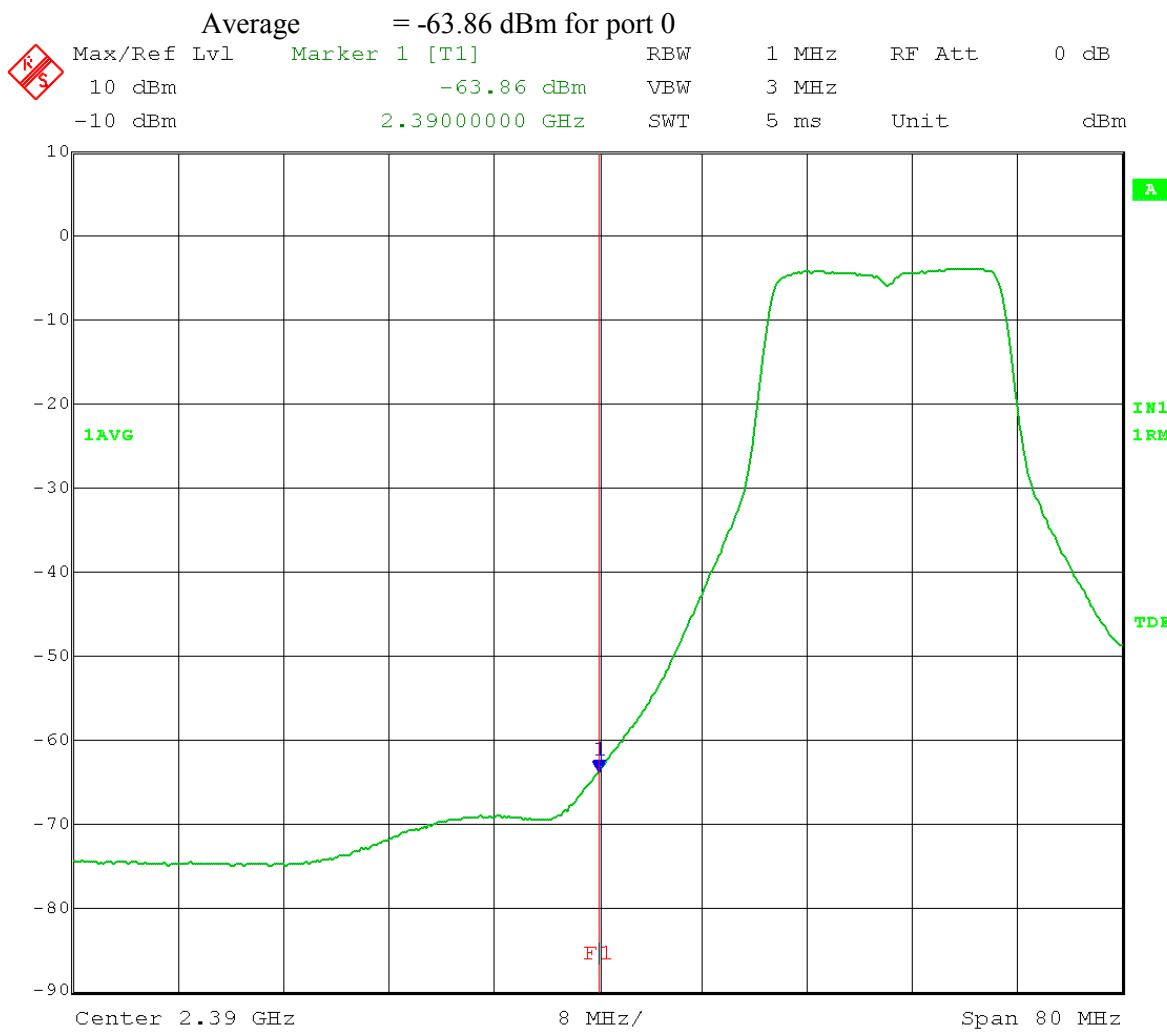
$$\text{Total} = 0.000032285 + 0.000026062 = 0.000058347 \text{ mW} = -42.33 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -42.33 \text{ dBm} + 17 \text{ dB} - 20\log 3 + 104.8 = 69.93 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 4.07 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

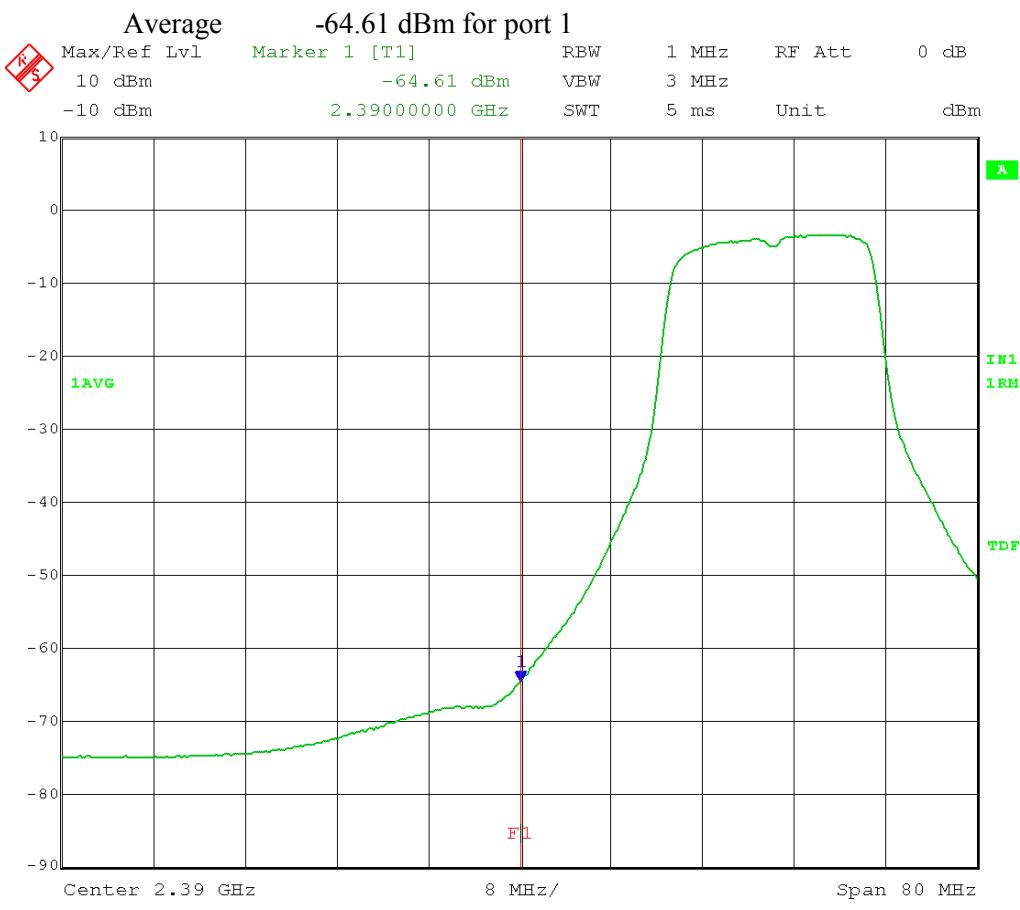
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 10.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 13:52:54

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 10.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



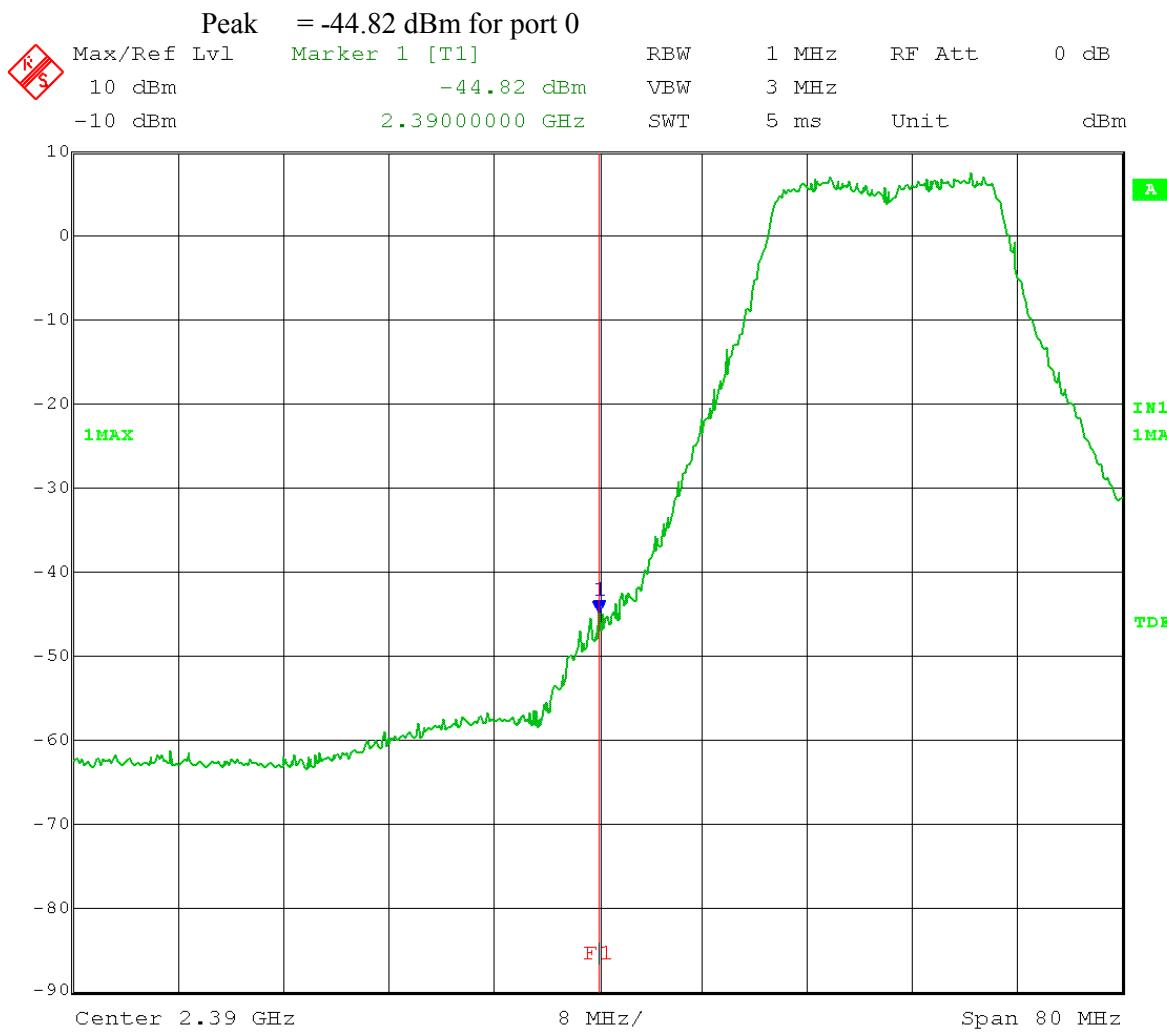
Date: 14.MAR.2014 13:55:50

$$\begin{aligned}
 -63.86 \text{ dBm} &= 0.000000411 \text{ mW} \\
 -64.61 \text{ dBm} &= 0.000000346 \text{ mW} \\
 \text{Total} &= 0.000000411 + 0.000000346 = 0.000000757 \text{ mW} = -61.20 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -61.20 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 53.06 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{0.94}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

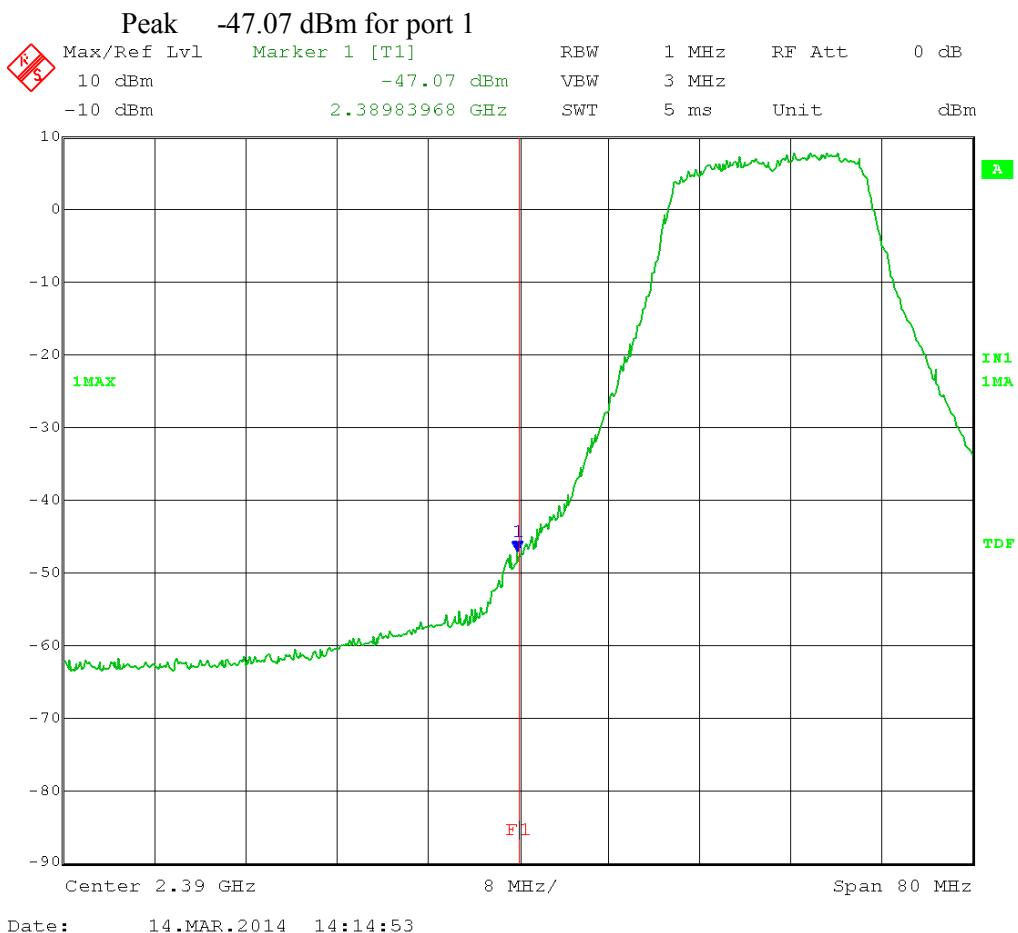
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 10.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 14:10:42

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 10.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-44.82 \text{ dBm} = 0.000032961 \text{ mW}$$

$$-47.07 \text{ dBm} = 0.000019634 \text{ mW}$$

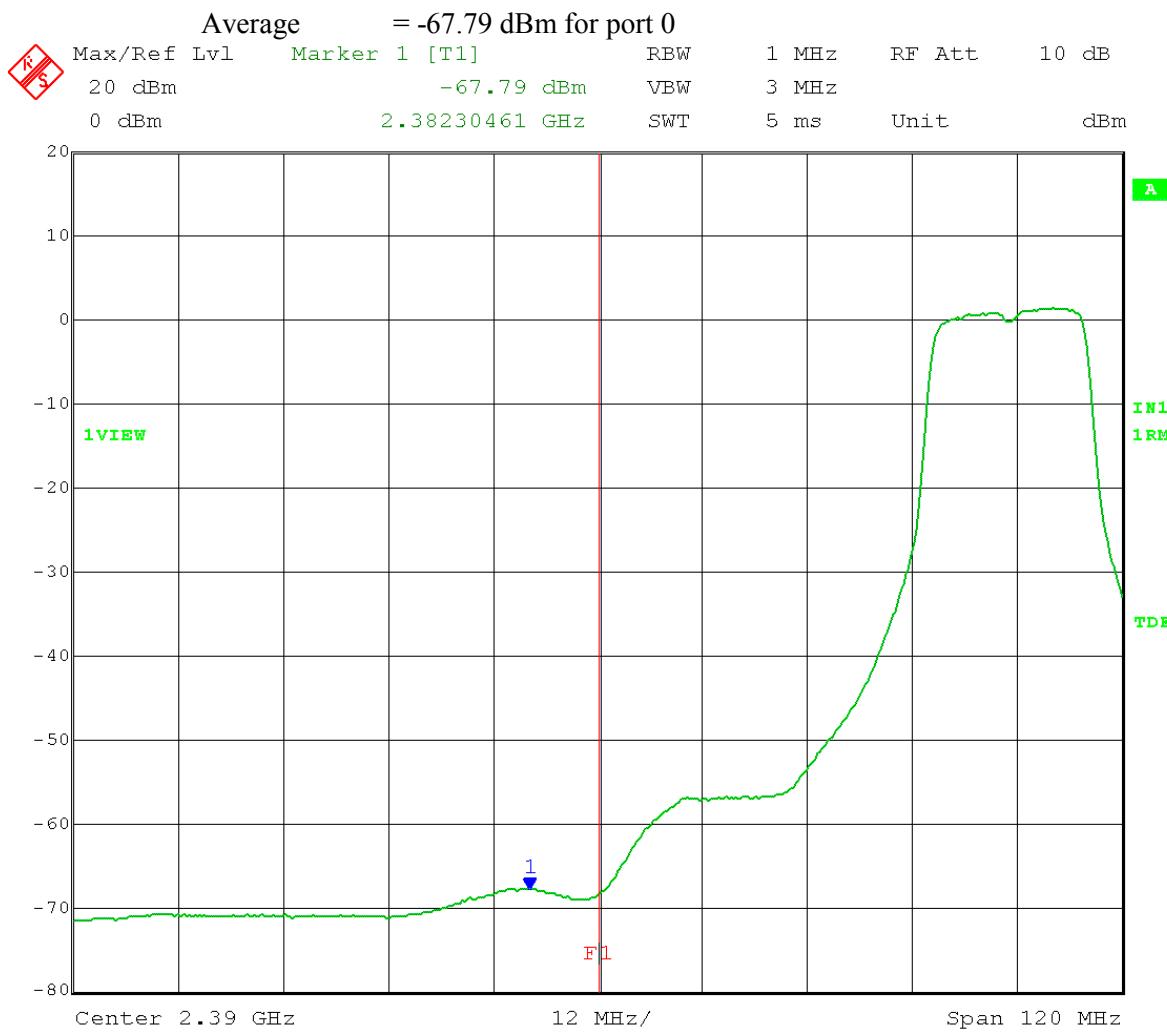
$$\text{Total} = 0.000032961 + 0.000019634 = 0.000052595 \text{ mW} = -42.79 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -42.79 \text{ dBm} + 19 \text{ dB} - 20\log 3 + 104.8 = 71.47 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 2.53 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

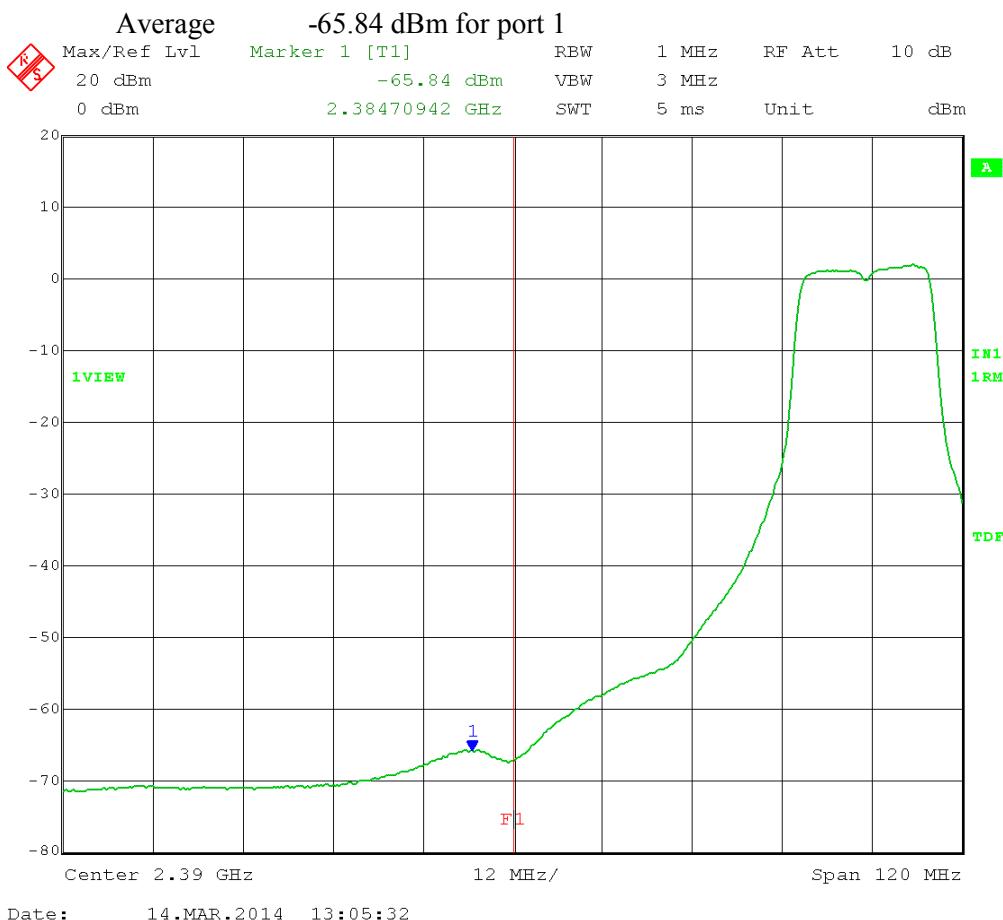
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 13:03:09

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-67.79 \text{ dBm} = 0.000000166 \text{ mW}$$

$$-65.84 \text{ dBm} = 0.000000261 \text{ mW}$$

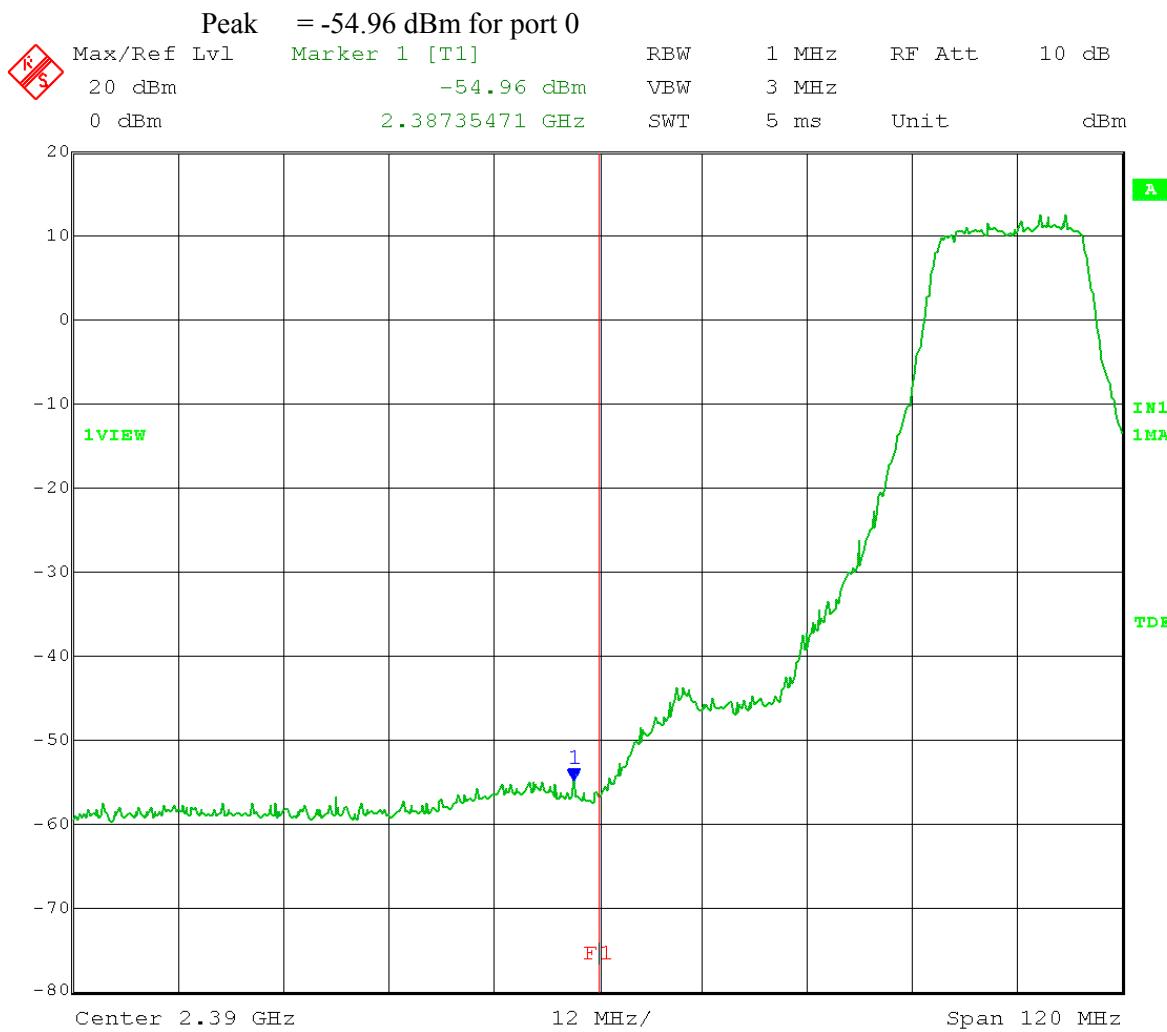
$$\text{Total} = 0.000000166 + 0.000000261 = 0.000000427 \text{ mW} = -63.69 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -63.69 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 50.57 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 3.43 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

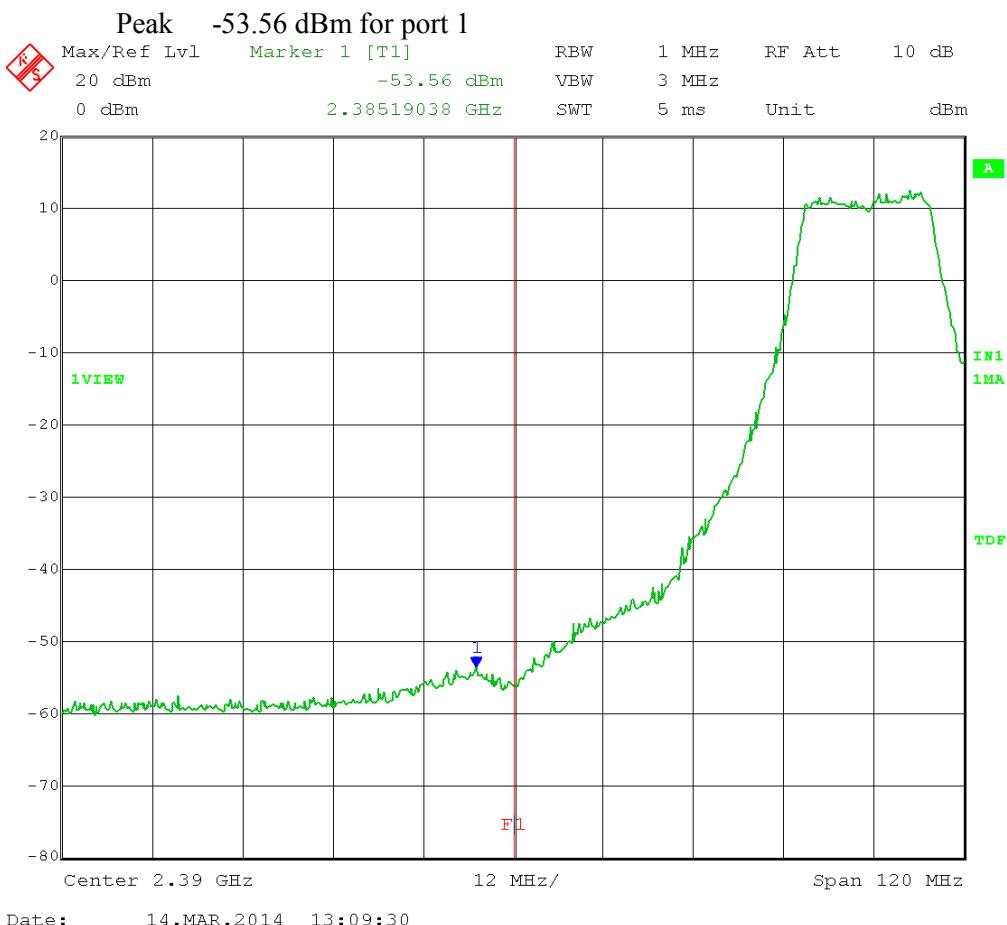
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 13:12:38

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15

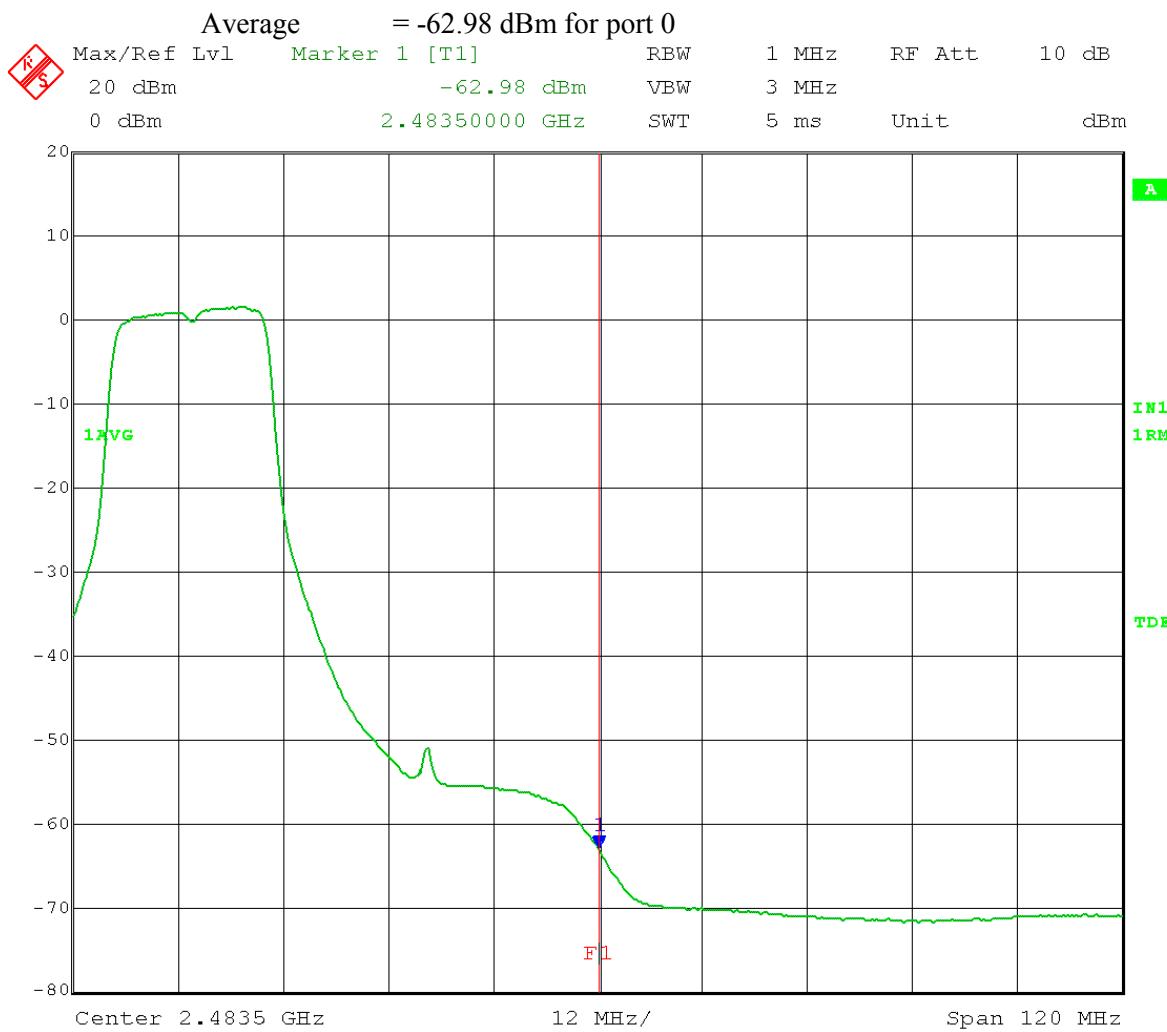


$$\begin{aligned}
 -54.96 \text{ dBm} &= 0.000003192 \text{ mW} \\
 -53.56 \text{ dBm} &= 0.000004406 \text{ mW} \\
 \text{Total} &= 0.000003192 + 0.000004406 = 0.000007598 \text{ mW} = -51.19 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -51.19 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 63.07 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\mathbf{10.93 \text{ dB}}}
 \end{aligned}
 \text{(for Peak limit of } 74 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

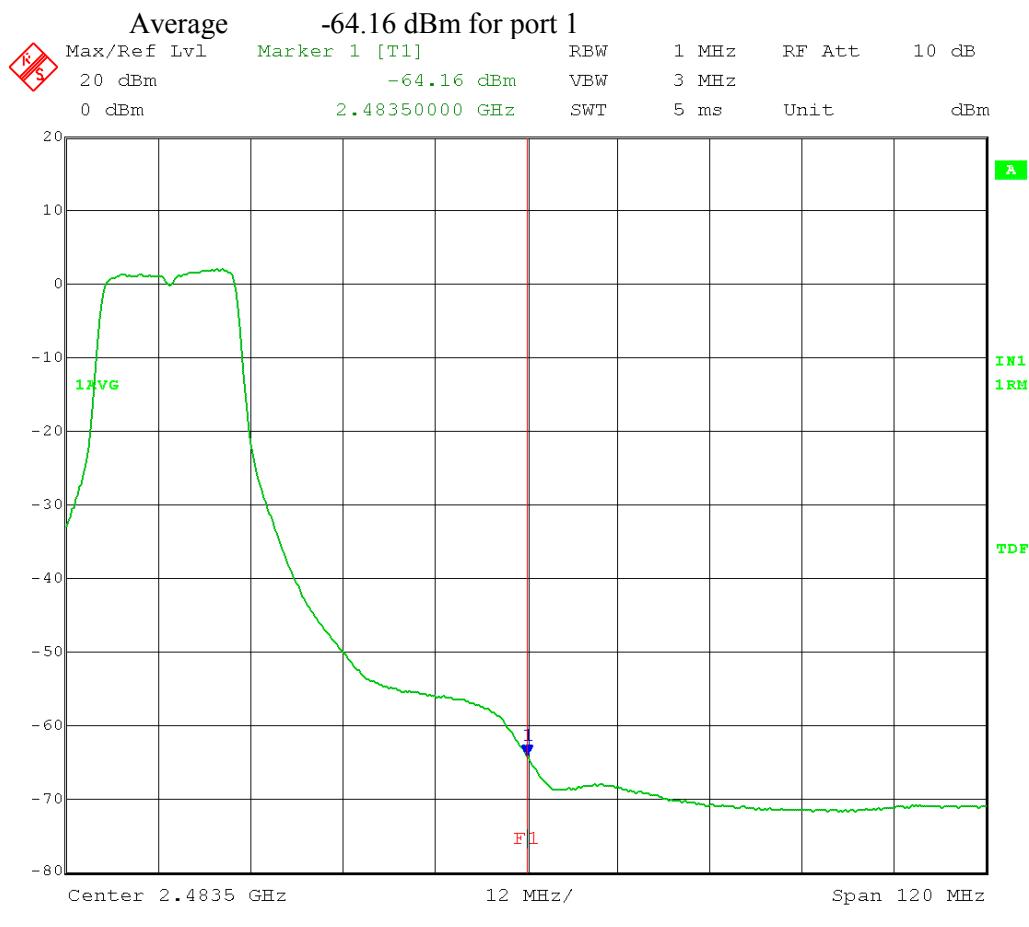
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 12:39:48

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-62.98 \text{ dBm} = 0.000000504 \text{ mW}$$

$$-64.16 \text{ dBm} = 0.000000384 \text{ mW}$$

$$\text{Total} = 0.000000504 + 0.000000384 = 0.000000888 \text{ mW} = -60.51 \text{ dBm}$$

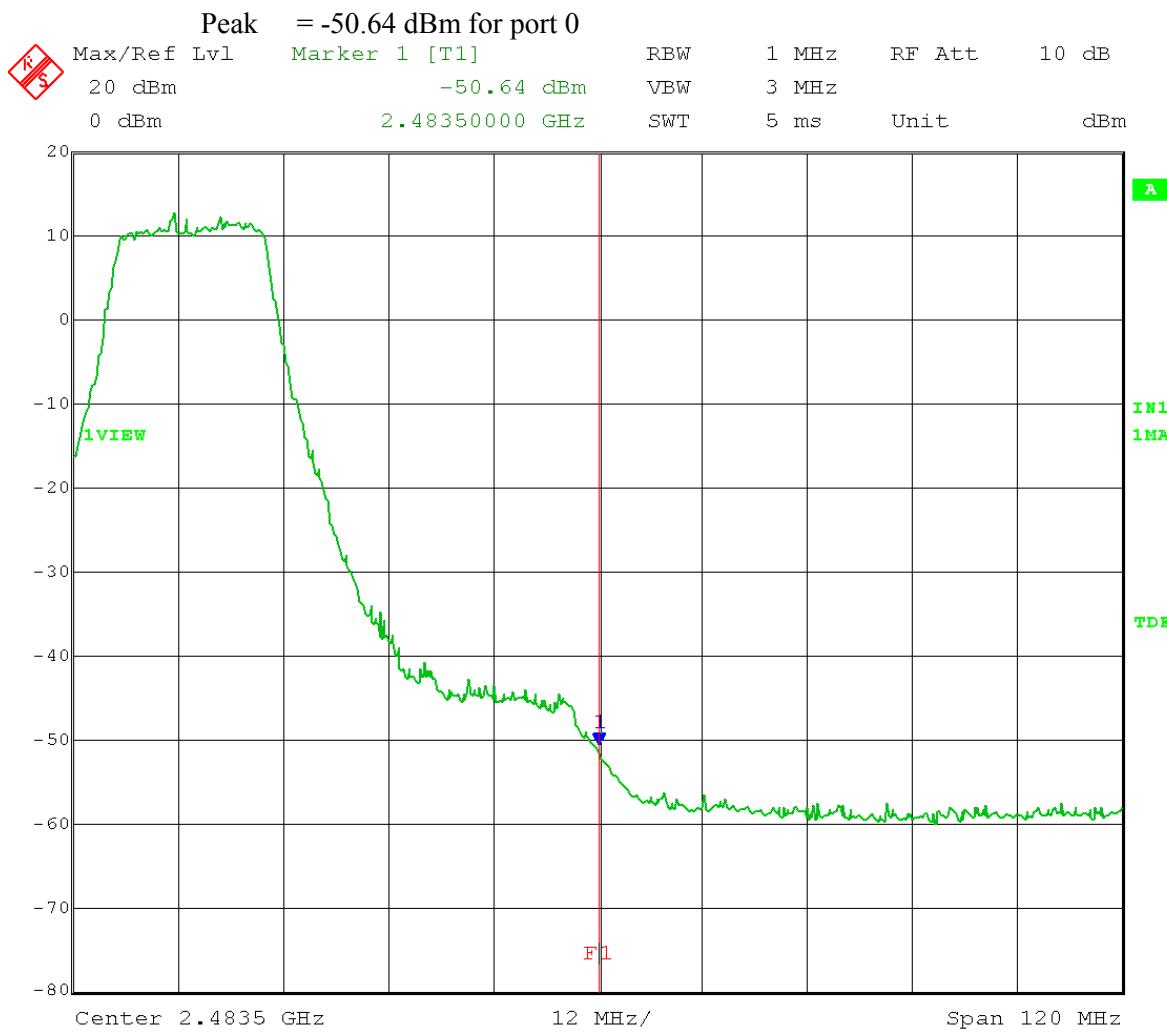
$$E = EIRP - 20\log D + 104.8$$

$$= -60.51 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 53.75 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 0.25 dB}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

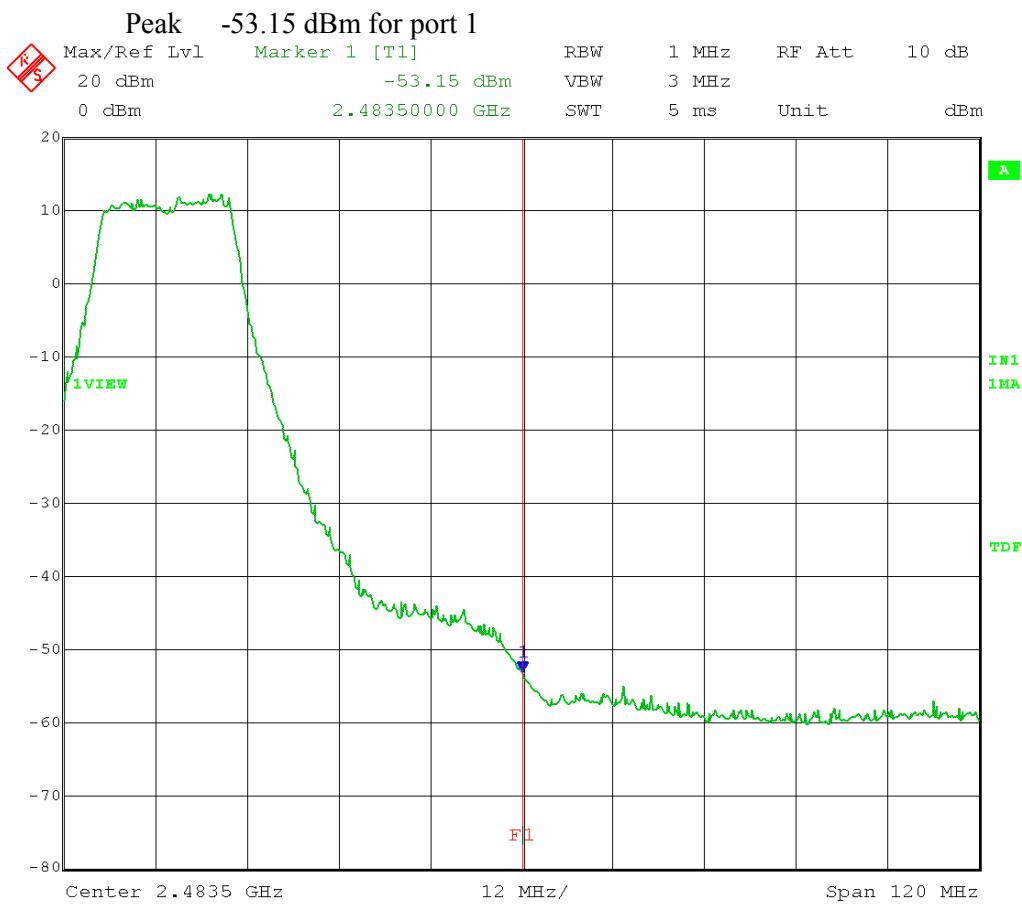
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 12:51:57

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 15
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 12:48:40

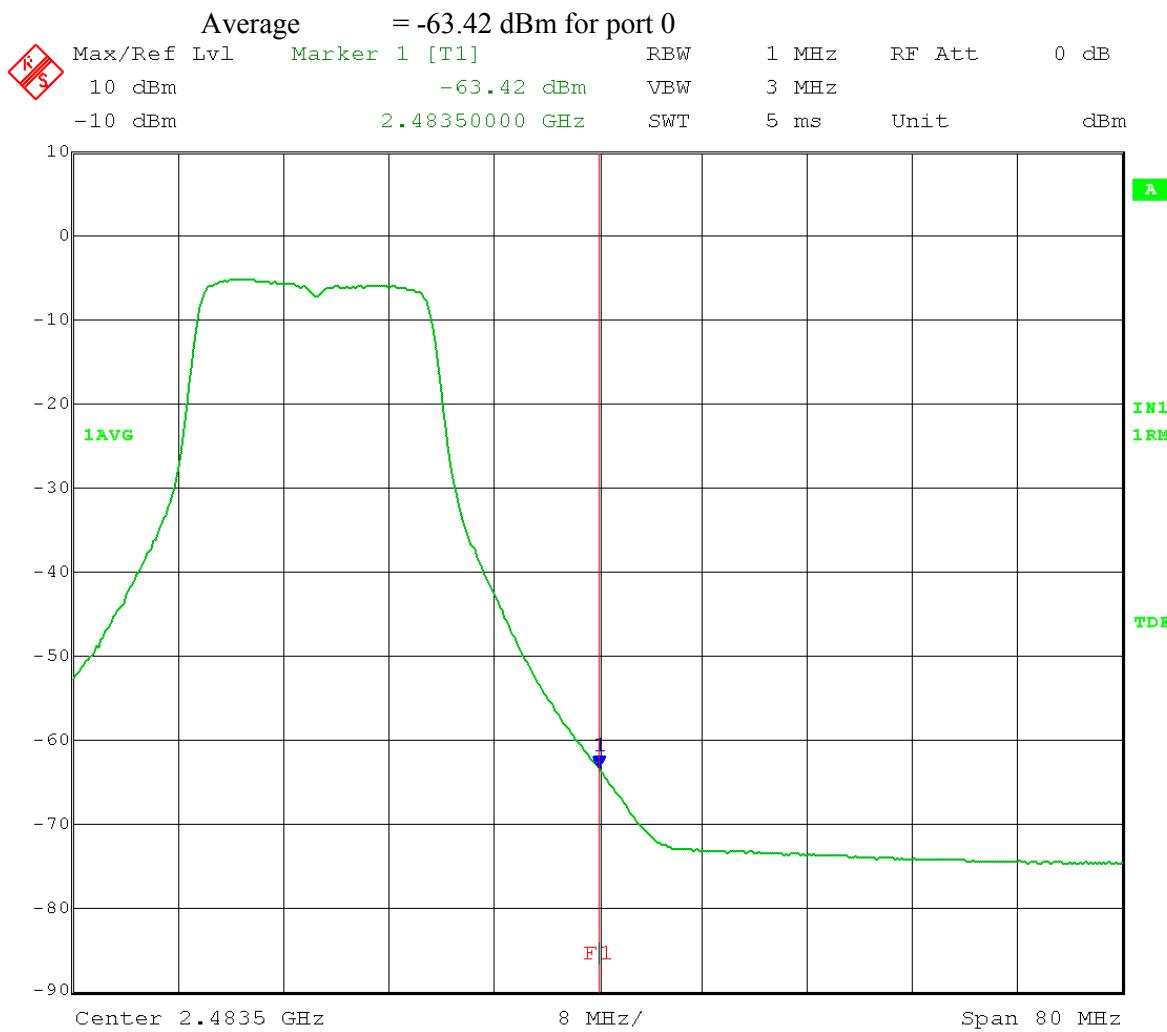
$$\begin{aligned}
 -50.64 \text{ dBm} &= 0.000008630 \text{ mW} \\
 -53.15 \text{ dBm} &= 0.000004842 \text{ mW} \\
 \text{Total} &= 0.000008630 + 0.000004842 = 0.000013472 \text{ mW} = -48.70 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -48.70 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 65.56 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\mathbf{8.44 \text{ dB}}}
 \end{aligned}$$

(for Peak limit of 74 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

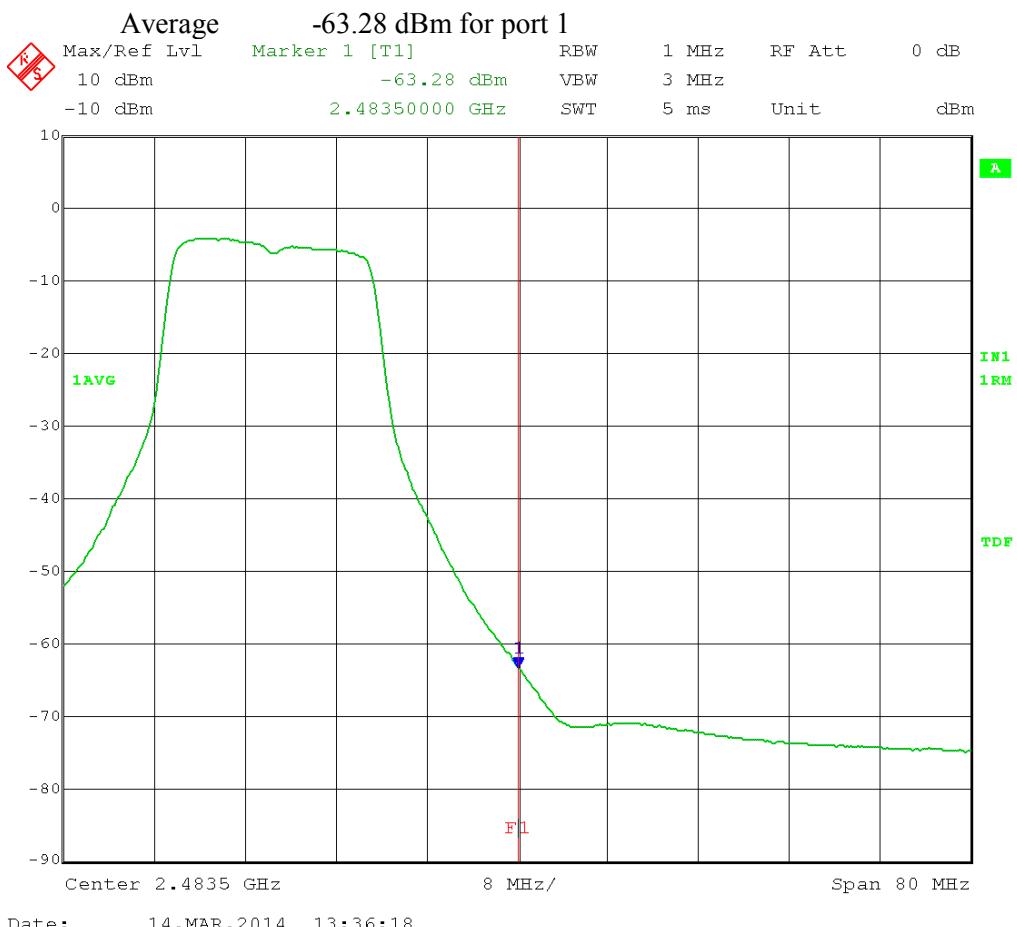
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.462 GHz
 Test software power setting: 9
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 13:33:57

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.462 GHz
 Test software power setting: 9
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-63.42 \text{ dBm} = 0.000000455 \text{ mW}$$

$$-63.28 \text{ dBm} = 0.000000470 \text{ mW}$$

$$\text{Total} = 0.000000455 + 0.000000470 = 0.000000925 \text{ mW} = -60.33 \text{ dBm}$$

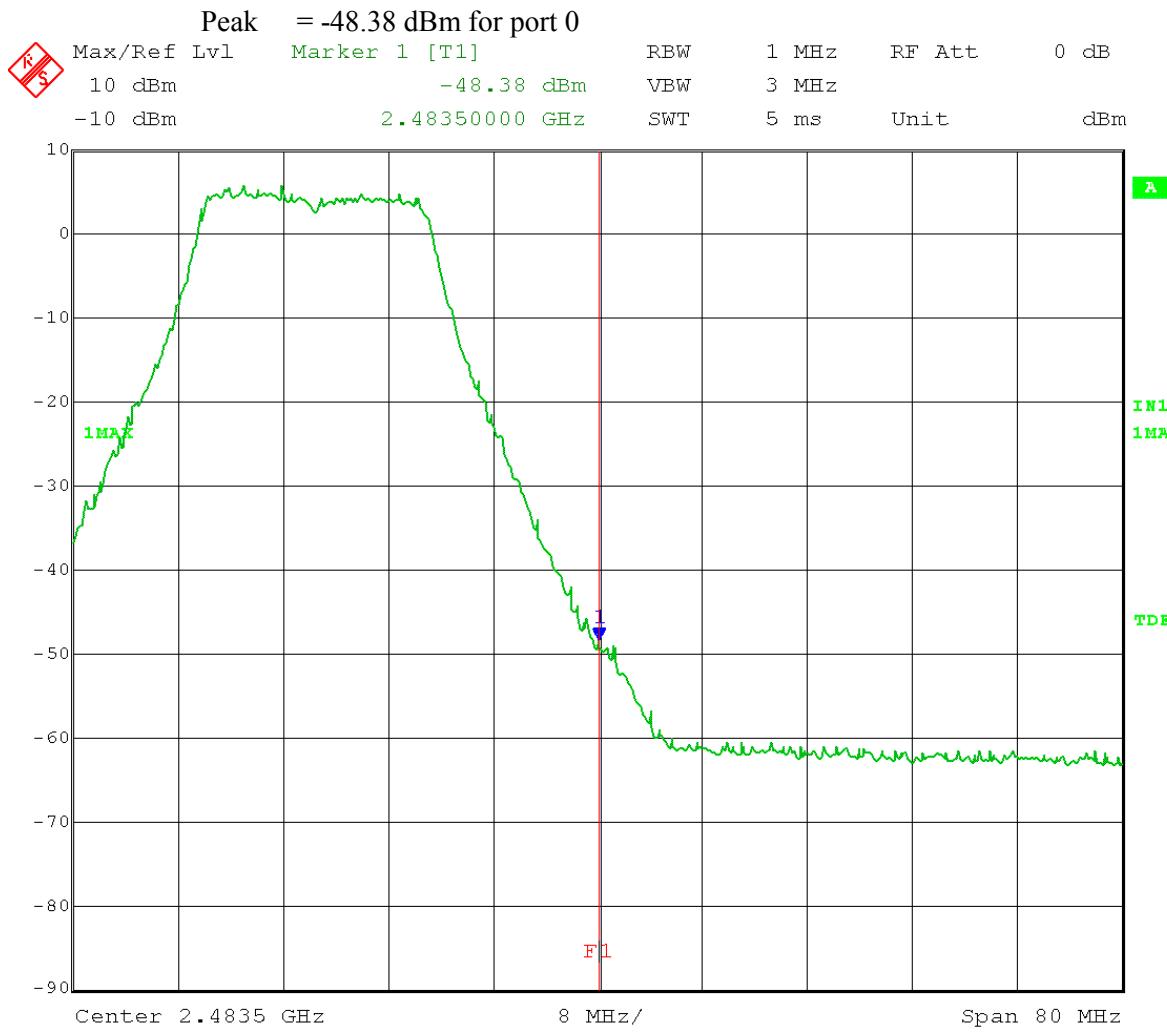
$$E = EIRP - 20\log D + 104.8$$

$$= -60.33 \text{ dBm} + 19 \text{ dB} - 20\log 3 + 104.8 = 53.93 \text{ dB}\mu\text{V/m}$$

Margin = 0.07 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

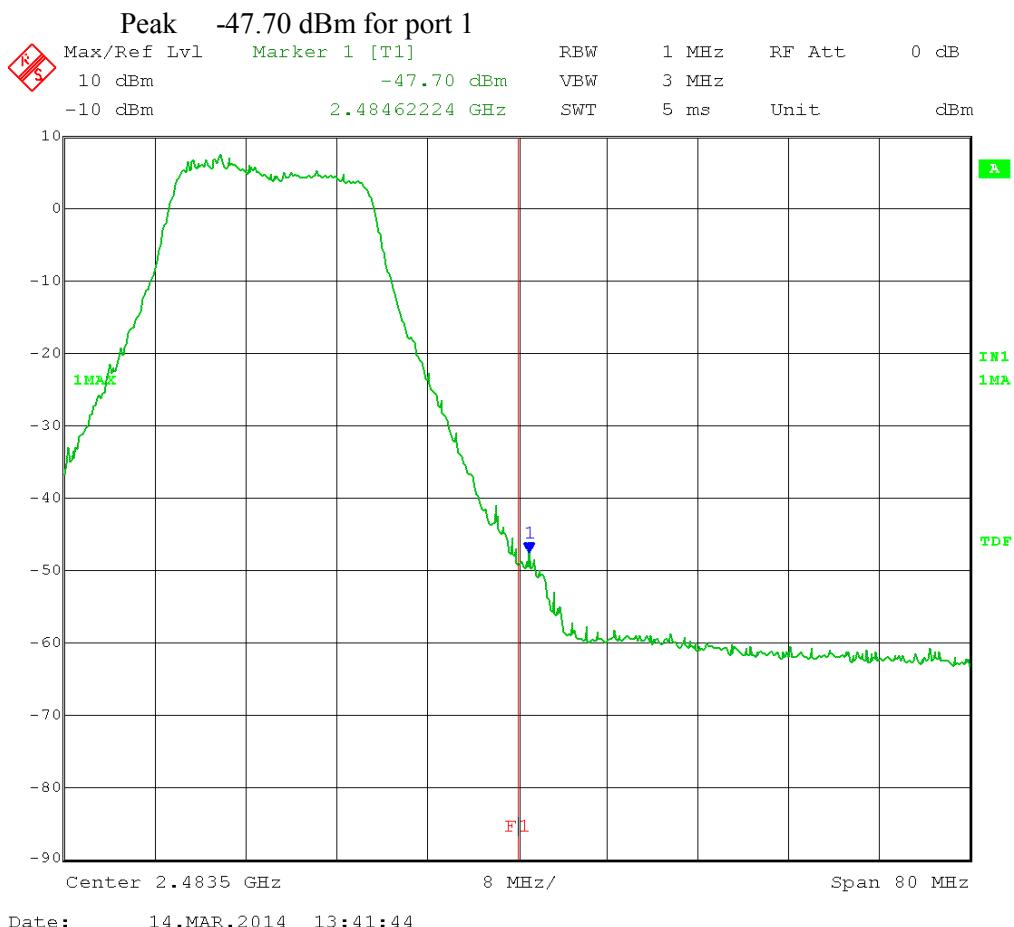
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 9
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 13:45:12

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 9
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-48.38 \text{ dBm} = 0.000014521 \text{ mW}$$

$$-47.70 \text{ dBm} = 0.000016982 \text{ mW}$$

$$\text{Total} = 0.000014521 + 0.000016982 = 0.000031503 \text{ mW} = -45.01 \text{ dBm}$$

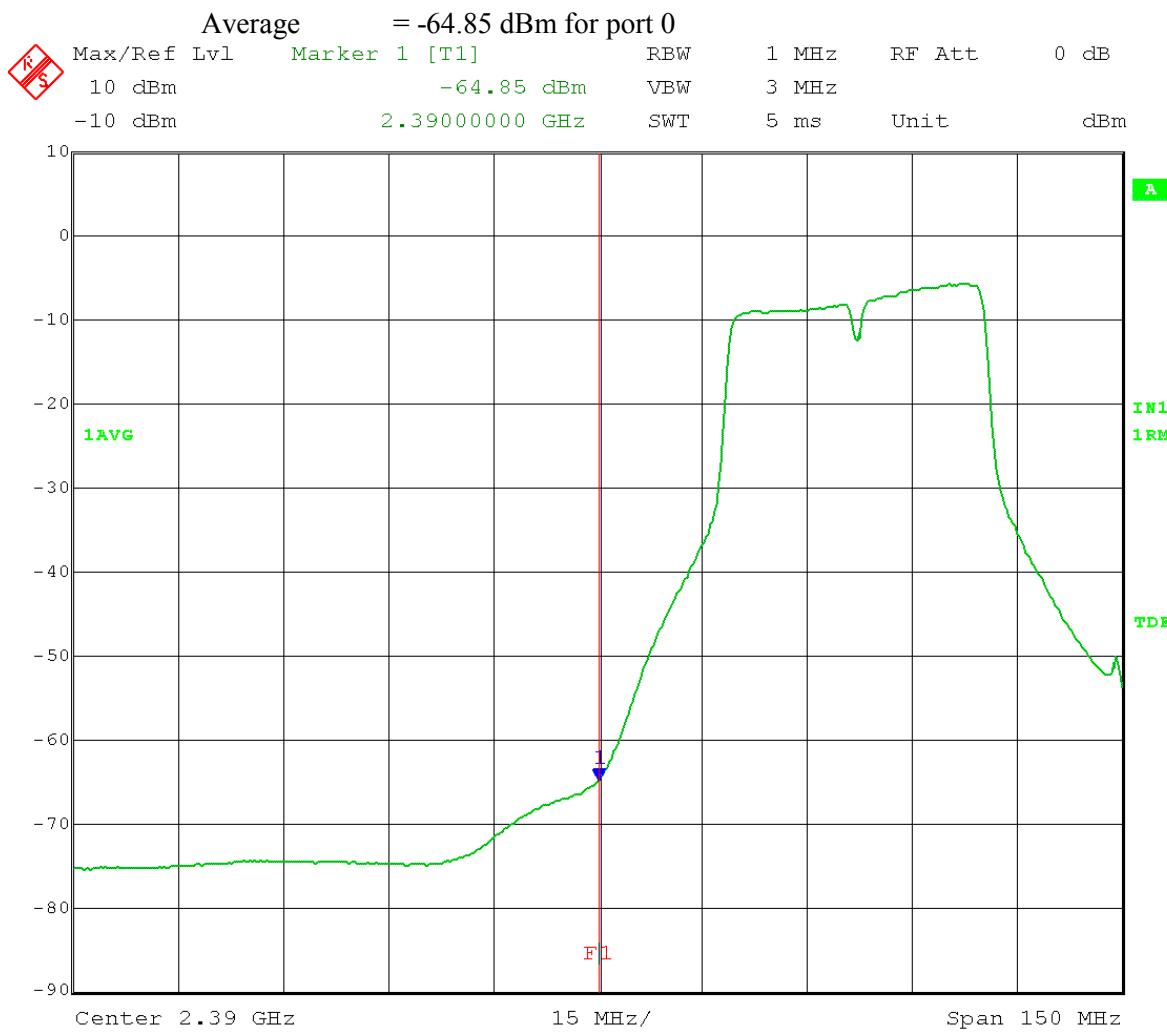
$$E = EIRP - 20\log D + 104.8$$

$$= -45.01 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 69.25 \text{ dB}\mu\text{V/m}$$

Margin = 4.75 dB (for Peak limit of 74 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

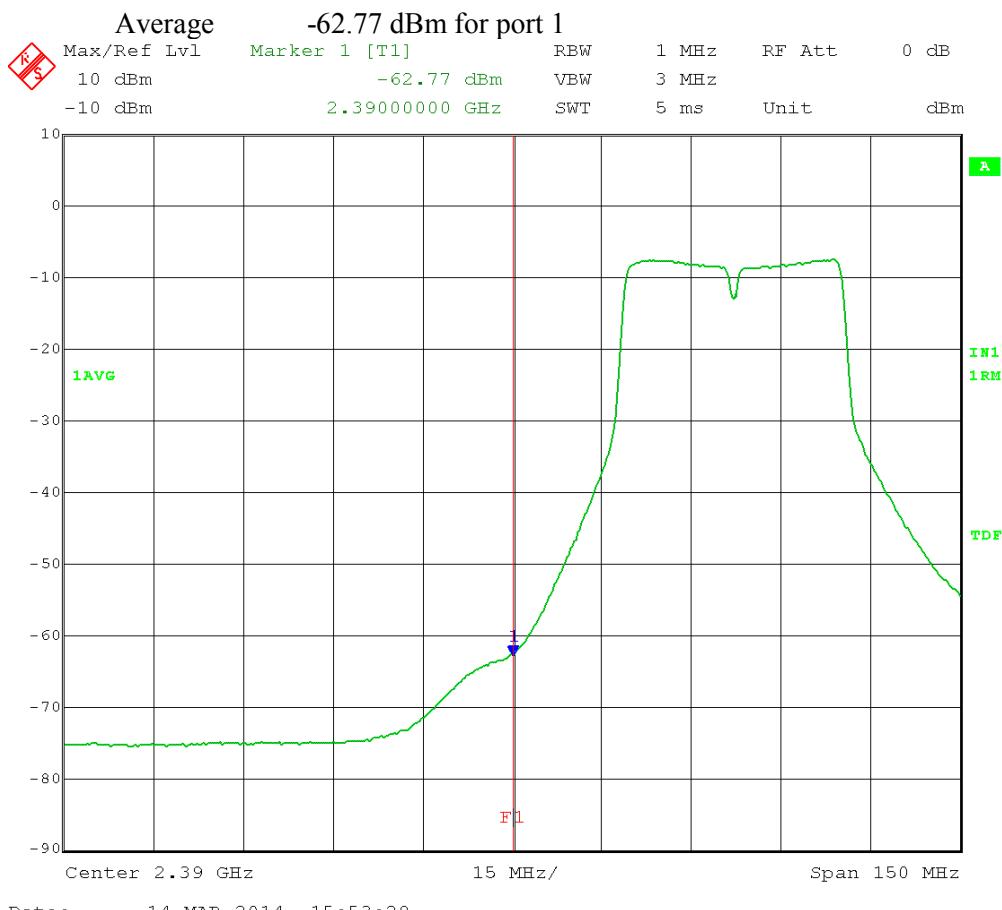
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 9
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 15:51:55

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 9
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-64.85 \text{ dBm} = 0.000000327 \text{ mW}$$

$$-62.77 \text{ dBm} = 0.000000528 \text{ mW}$$

$$\text{Total} = 0.000000327 + 0.000000528 = 0.000000855 \text{ mW} = -60.67 \text{ dBm}$$

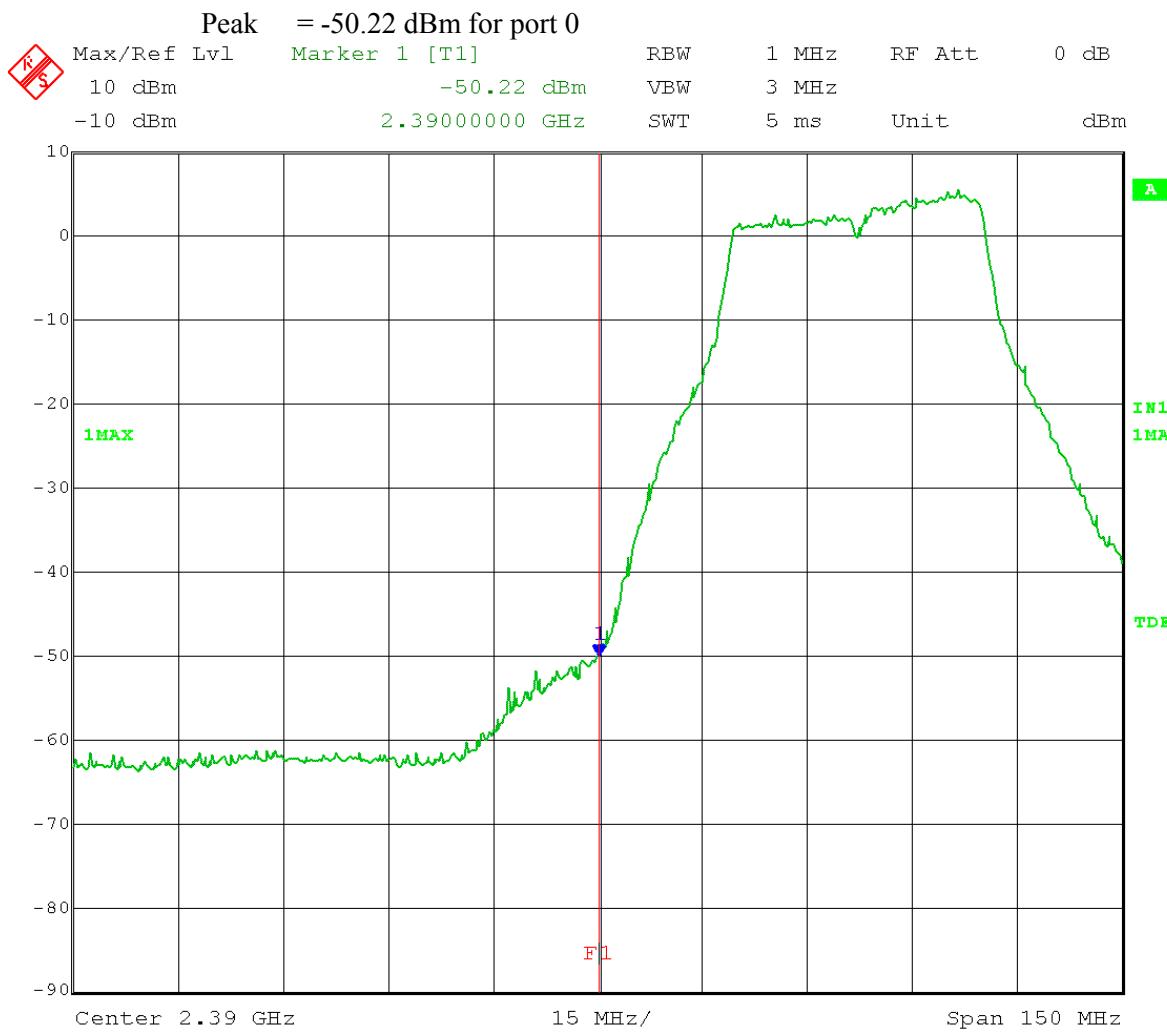
$$E = \text{EIRP} - 20\log D + 104.8$$

$$= -60.67 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 53.59 \text{ dB}\mu\text{V/m}$$

Margin = 0.41 (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

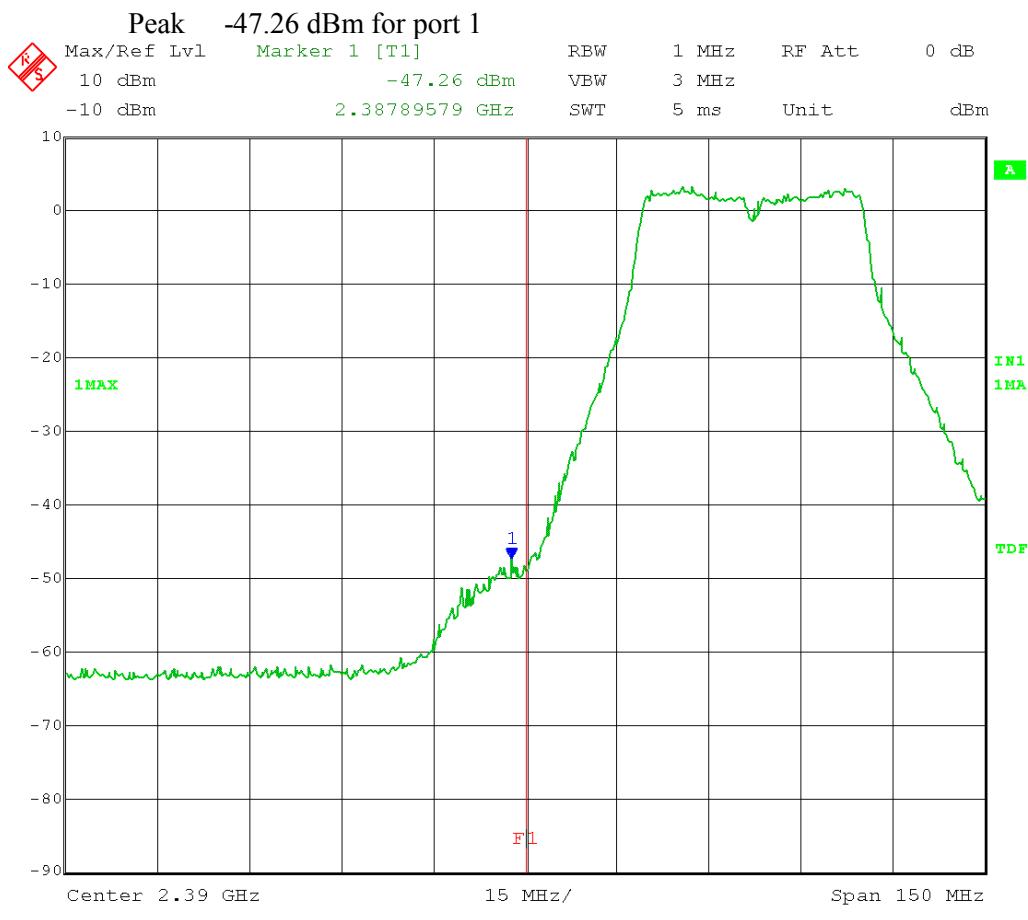
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 9
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 16:07:28

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 9
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15

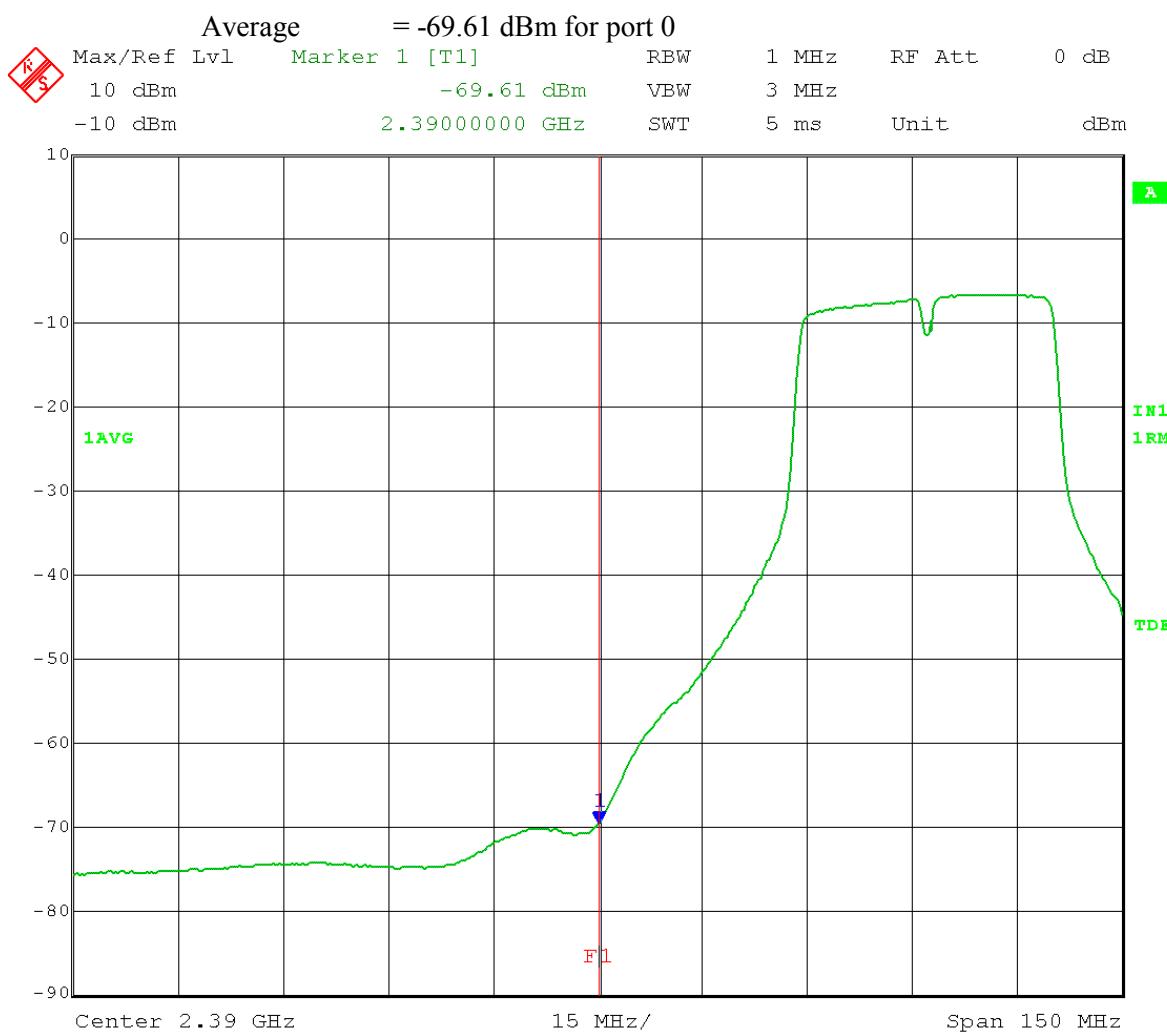


$$\begin{aligned}
 -50.22 \text{ dBm} &= 0.000009506 \text{ mW} \\
 -47.26 \text{ dBm} &= 0.000018793 \text{ mW} \\
 \text{Total} &= 0.000009506 + 0.000018793 = 0.000028299 \text{ mW} = -45.48 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -45.48 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 68.78 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{5.22 dB}} \text{ (for Peak limit of 74 dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

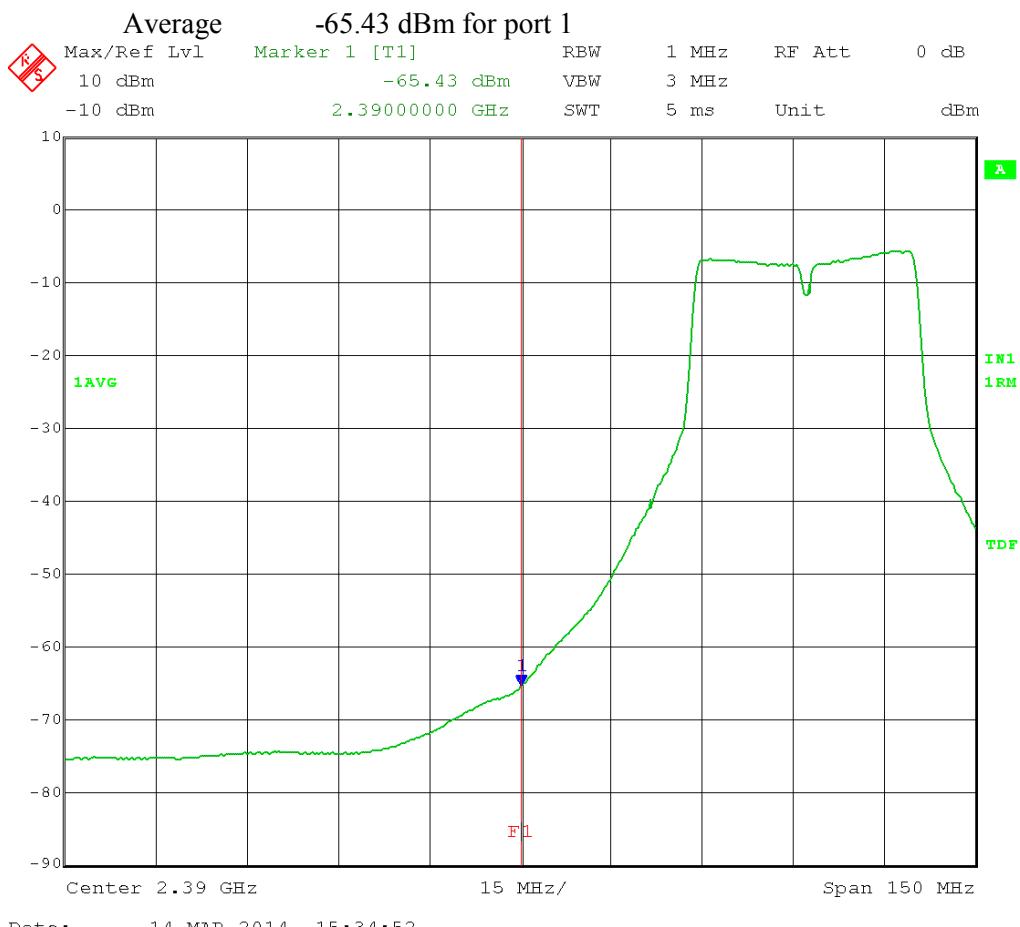
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 15:32:30

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-69.61 \text{ dBm} = 0.000000109 \text{ mW}$$

$$-65.43 \text{ dBm} = 0.000000286 \text{ mW}$$

$$\text{Total} = 0.000000109 + 0.000000286 = 0.000000395 \text{ mW} = -64.02 \text{ dBm}$$

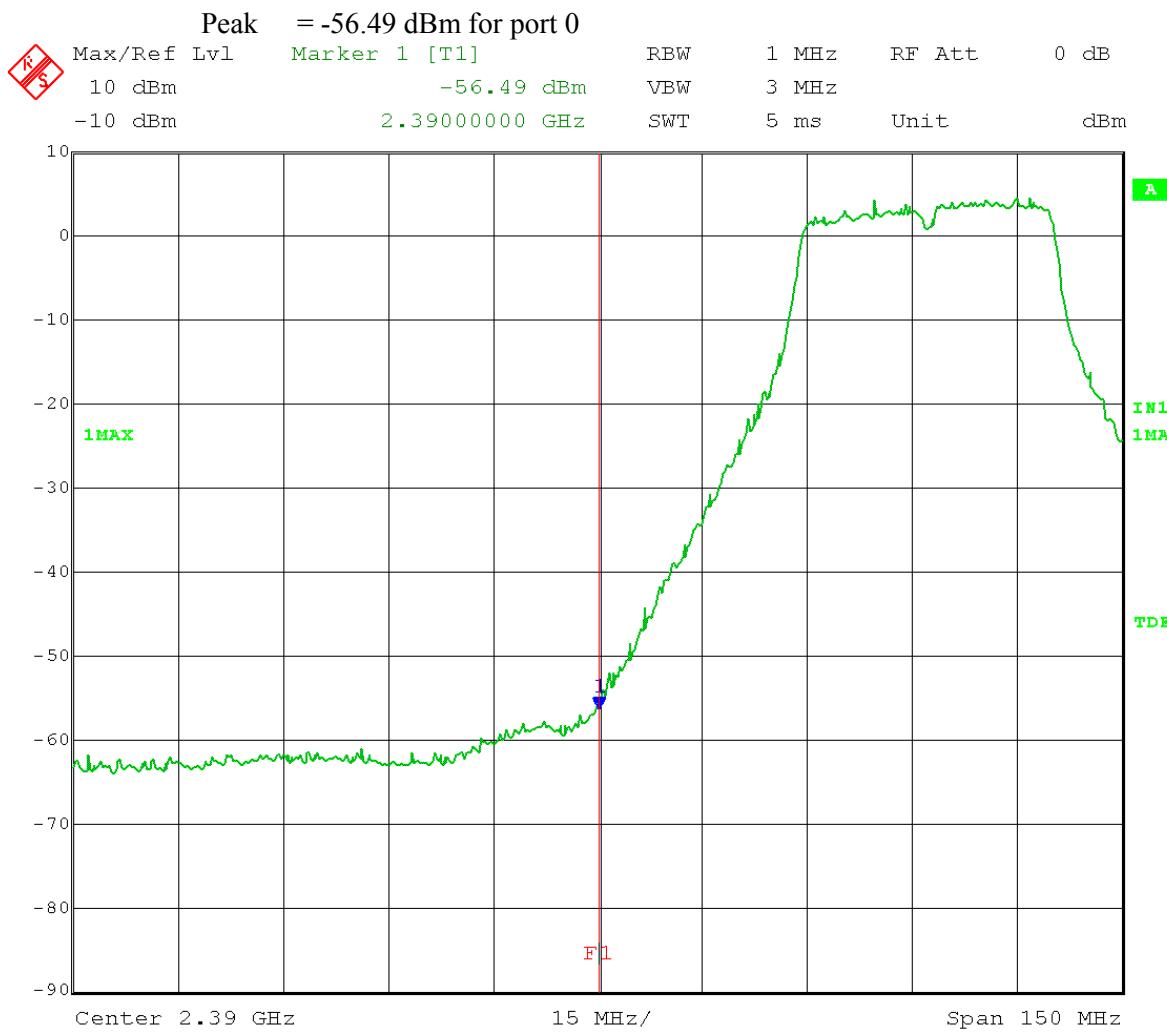
$$E = EIRP - 20\log D + 104.8$$

$$= -64.02 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 50.24 \text{ dB}\mu\text{V/m}$$

Margin = 3.76 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

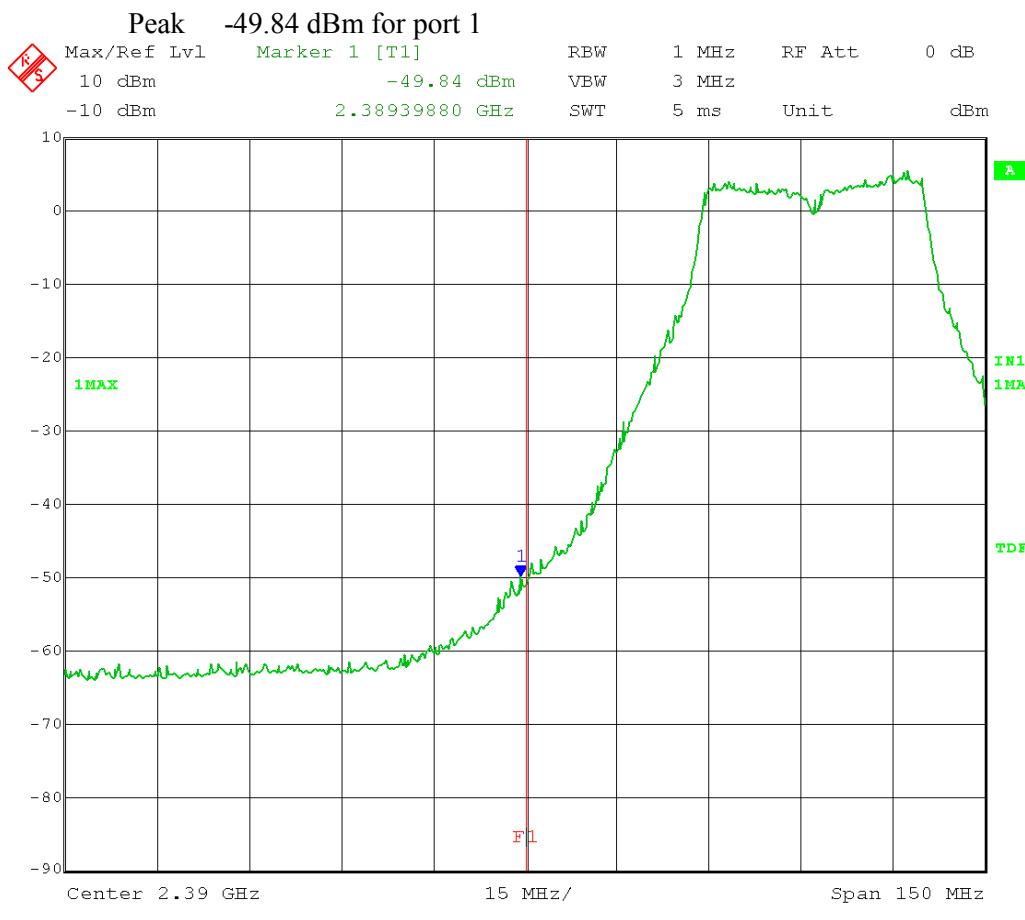
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 15:43:55

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



$$-56.49 \text{ dBm} = 0.000002244 \text{ mW}$$

$$-49.84 \text{ dBm} = 0.000010375 \text{ mW}$$

$$\text{Total} = 0.000002244 + 0.000010375 = 0.000012619 \text{ mW} = -48.98 \text{ dBm}$$

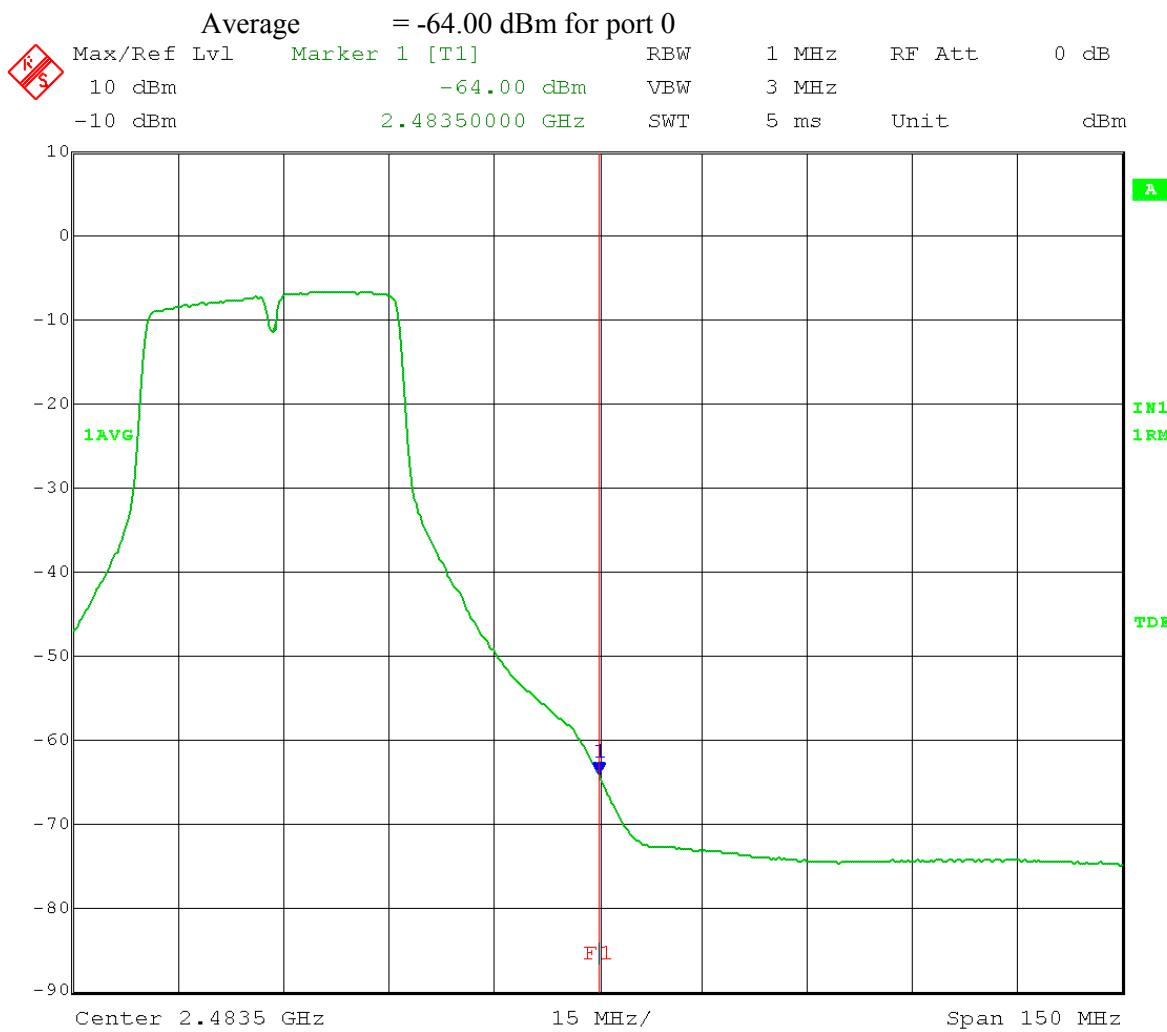
$$E = EIRP - 20\log D + 104.8$$

$$= -48.98 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 65.28 \text{ dB}\mu\text{V/m}$$

Margin = 8.72 dB (for Peak limit of 74 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

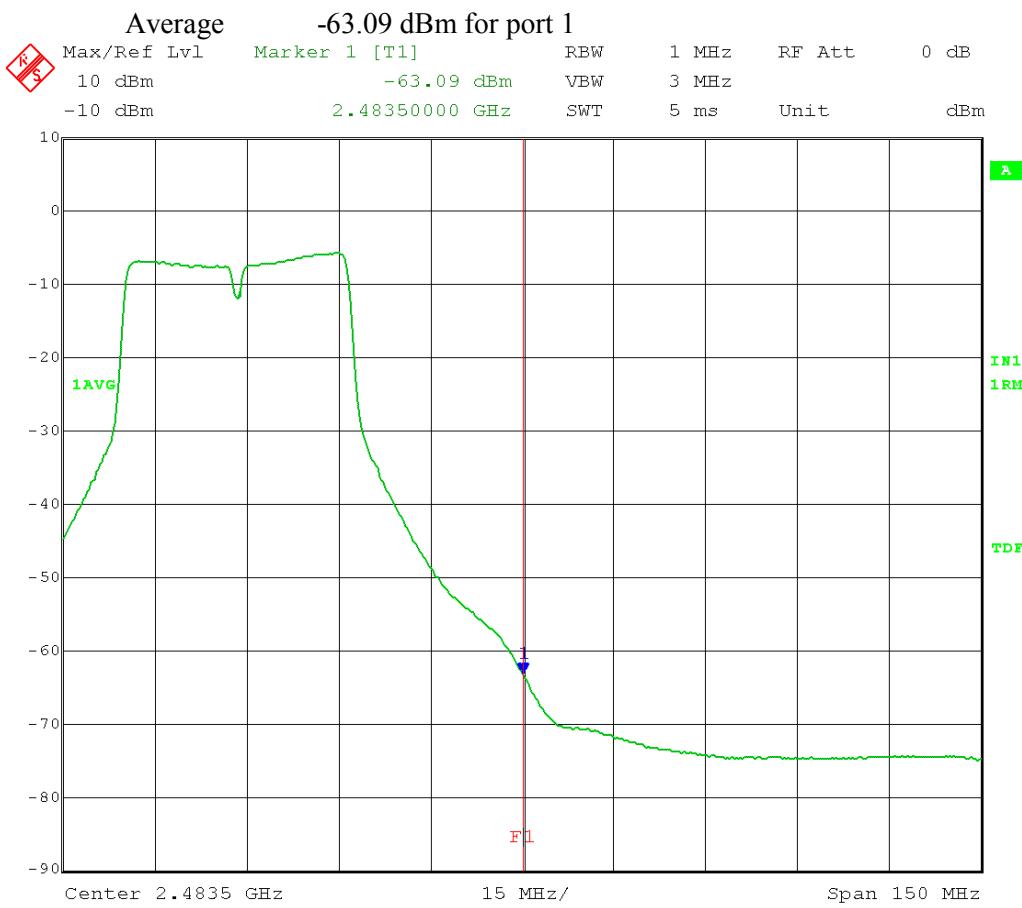
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 14:30:00

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 14:32:26

$$-64.00 \text{ dBm} = 0.000000398 \text{ mW}$$

$$-63.09 \text{ dBm} = 0.000000491 \text{ mW}$$

$$\text{Total} = 0.000000398 + 0.000000491 = 0.000000889 \text{ mW} = -60.51 \text{ dBm}$$

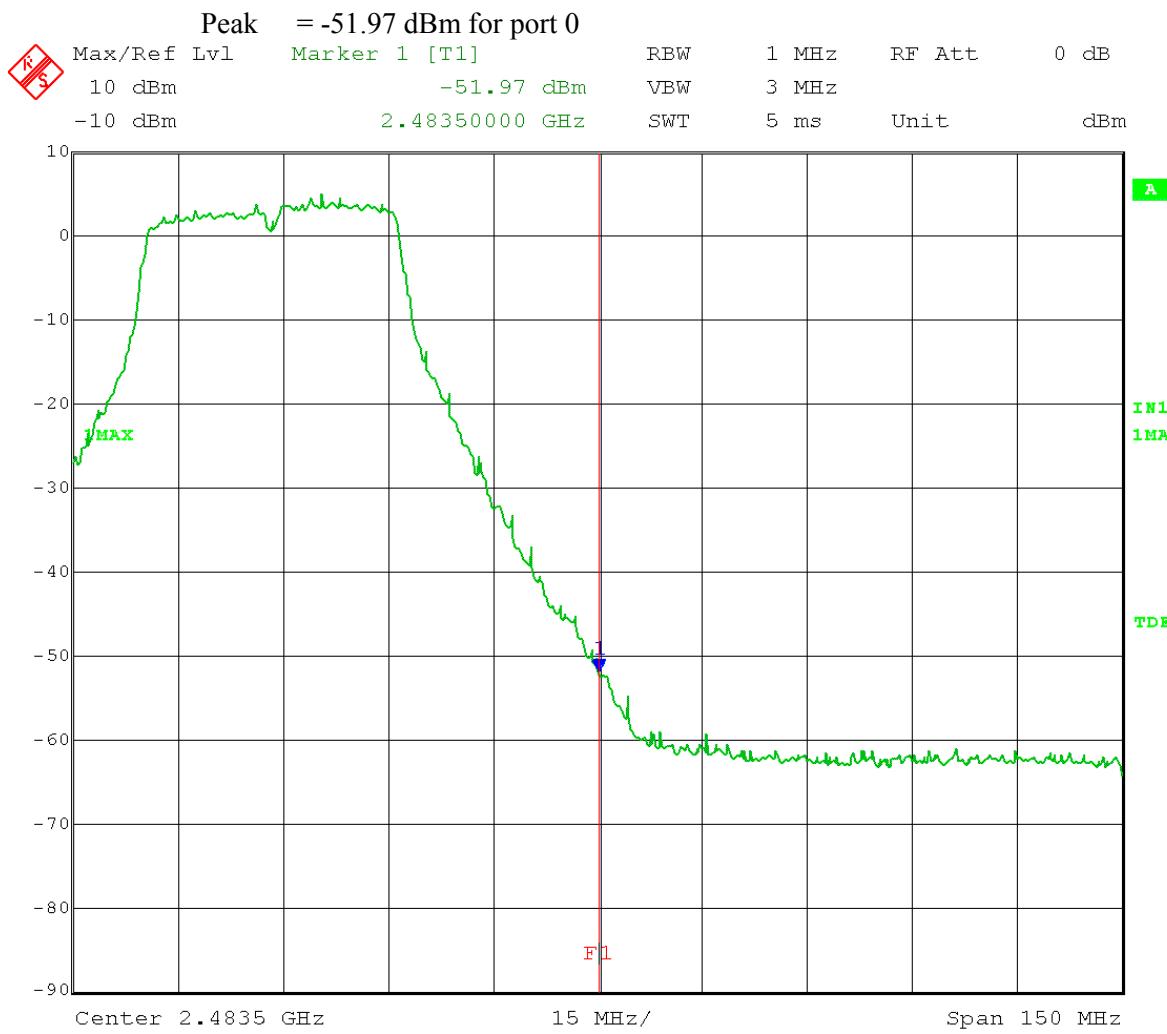
$$E = EIRP - 20\log D + 104.8$$

$$= -60.51 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 53.75 \text{ dB}\mu\text{V/m}$$

Margin = 0.25 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

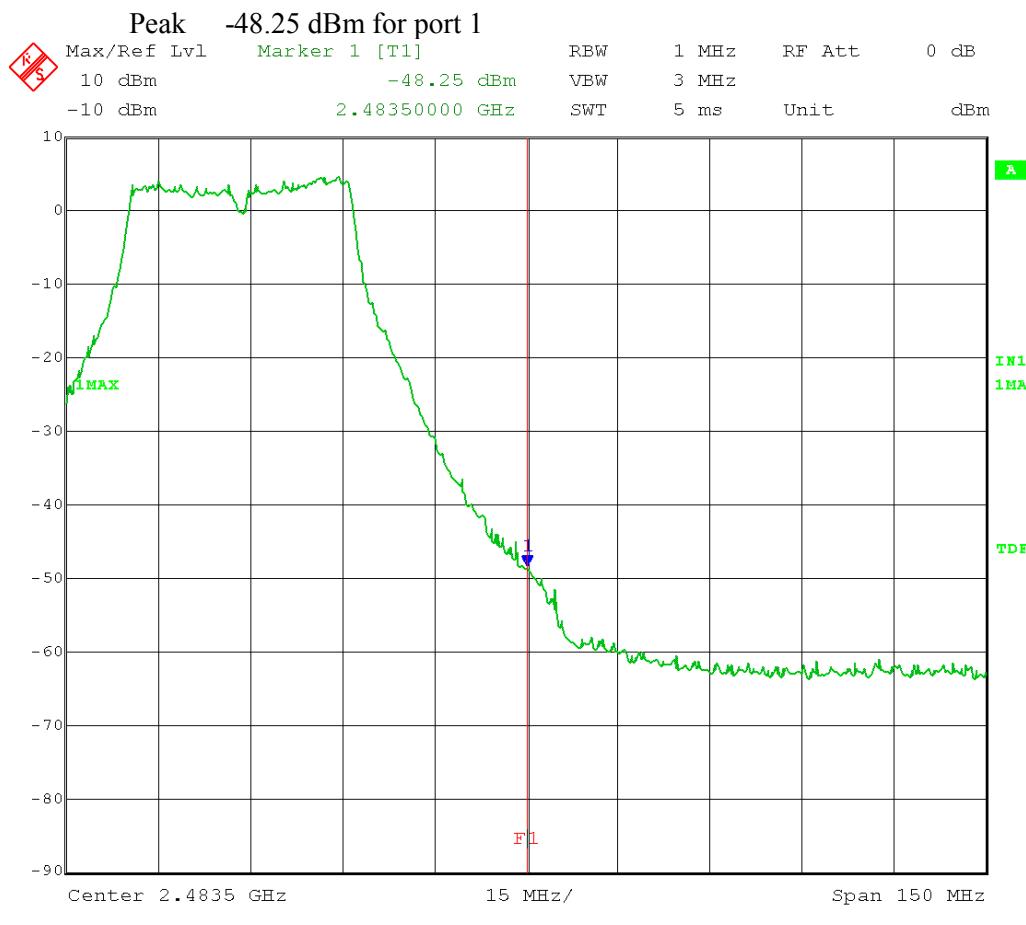
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 14:41:01

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 10
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15

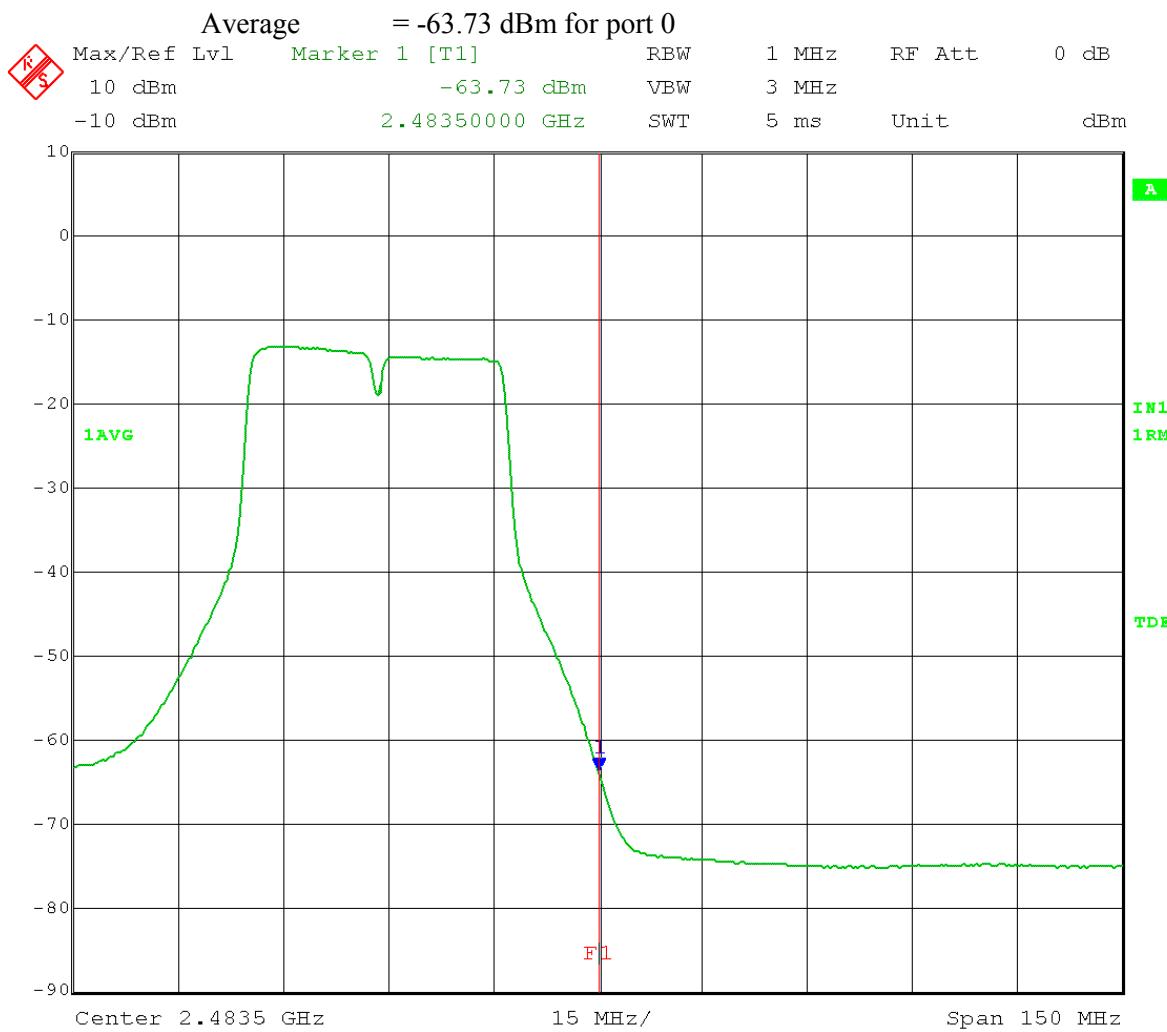


$$\begin{aligned}
 -51.97 \text{ dBm} &= 0.000006353 \text{ mW} \\
 -48.25 \text{ dBm} &= 0.000014962 \text{ mW} \\
 \text{Total} &= 0.000006353 + 0.000014962 = 0.000021315 \text{ mW} = -46.71 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -46.71 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 67.55 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{6.45 dB}} \text{ (for Peak limit of 74 dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

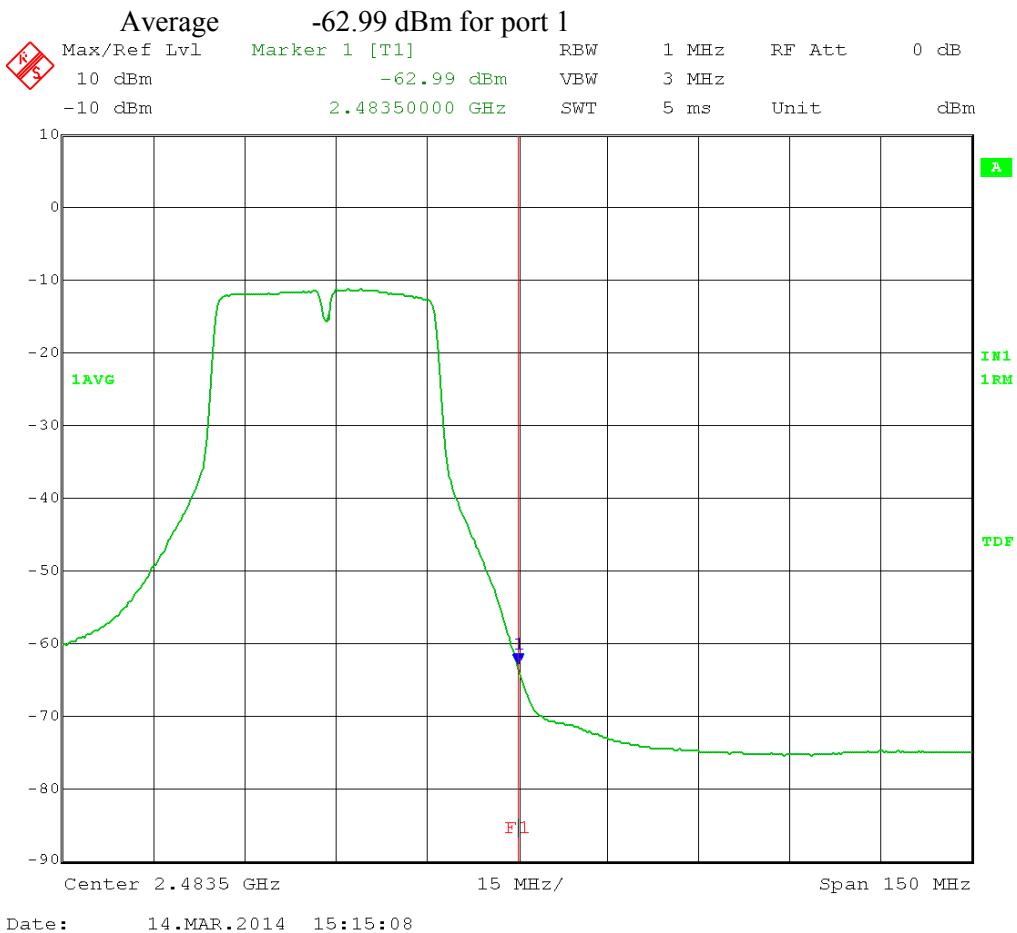
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 15:12:38

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.452 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-63.73 \text{ dBm} = 0.000000424 \text{ mW}$$

$$-62.99 \text{ dBm} = 0.000000502 \text{ mW}$$

$$\text{Total} = 0.000000424 + 0.000000502 = 0.000000926 \text{ mW} = -60.33 \text{ dBm}$$

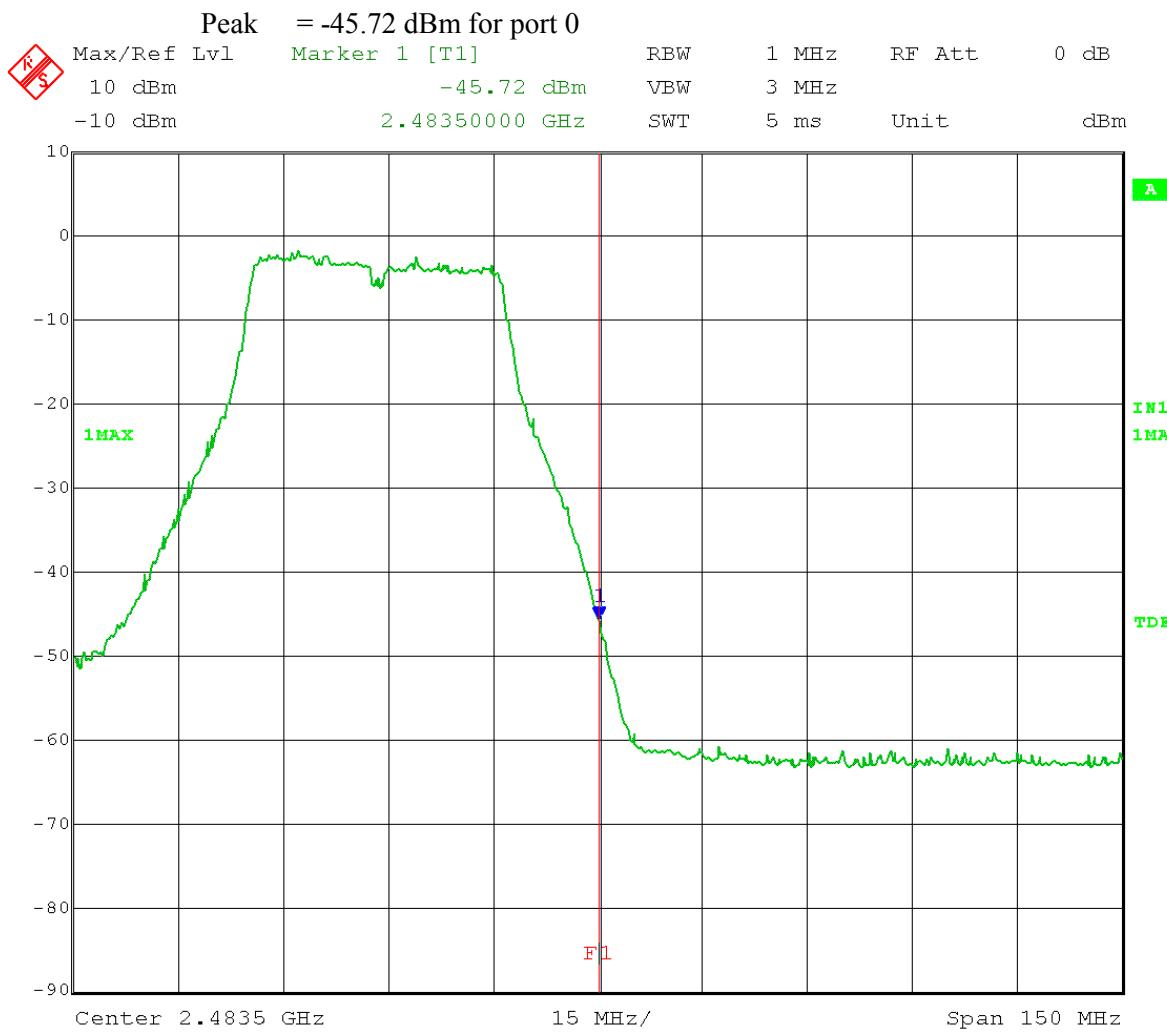
$$E = EIRP - 20\log D + 104.8$$

$$= -60.33 \text{ dBm} + 19 \text{ dB} - 20\log 3 + 104.8 = 53.93 \text{ dB}\mu\text{V/m}$$

Margin = 0.07 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

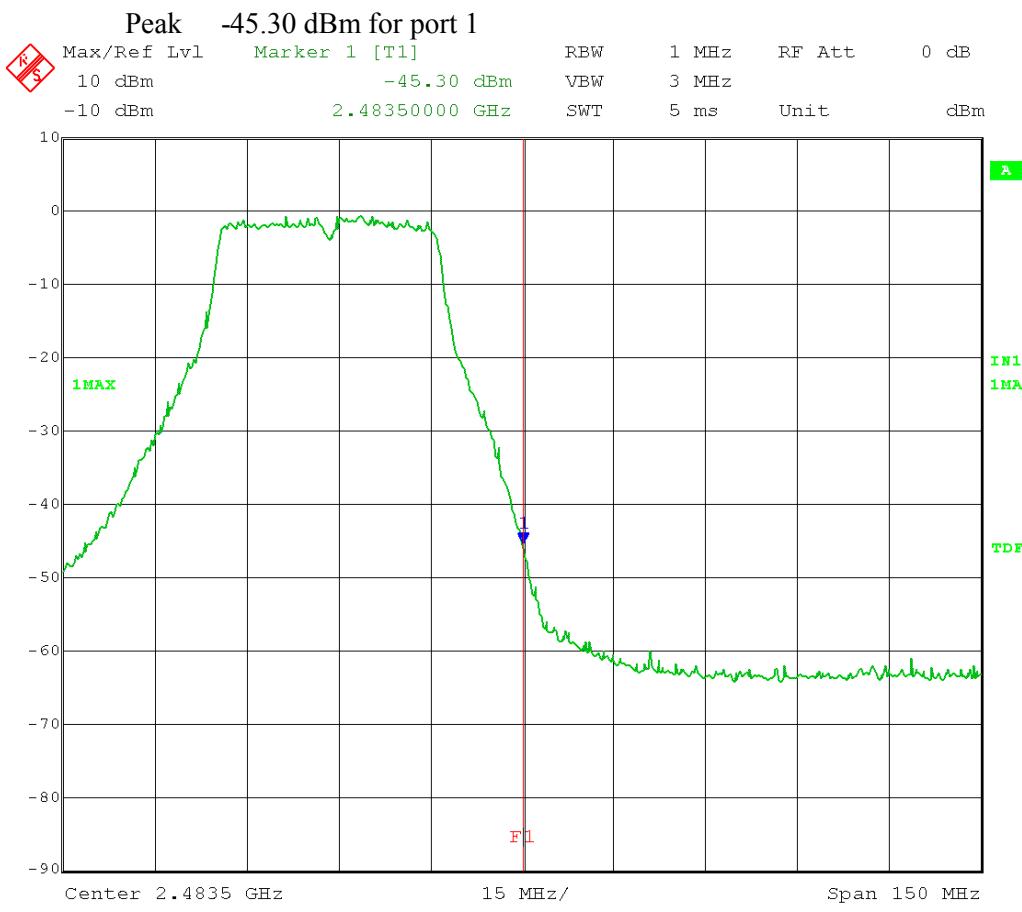
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 14.MAR.2014 15:25:26

Test Date: 03-14-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.452 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15

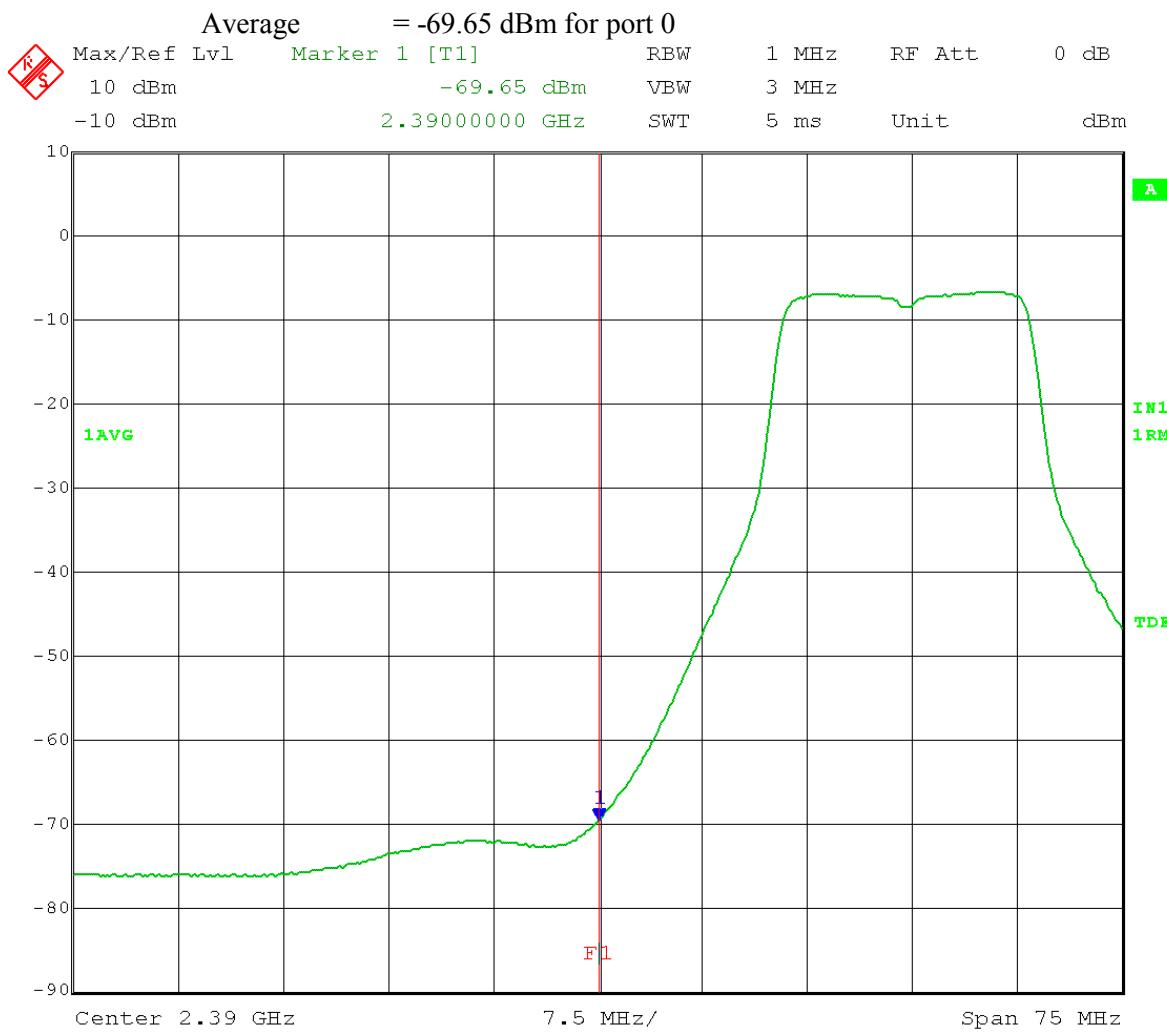


$$\begin{aligned}
 -45.72 \text{ dBm} &= 0.000026792 \text{ mW} \\
 -45.30 \text{ dBm} &= 0.000029512 \text{ mW} \\
 \text{Total} &= 0.000026792 + 0.000029512 = 0.000056304 \text{ mW} = -42.49 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -42.49 \text{ dBm} + 19 \text{ dBi} - 20\log 3 + 104.8 = 71.77 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{2.23 dB}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

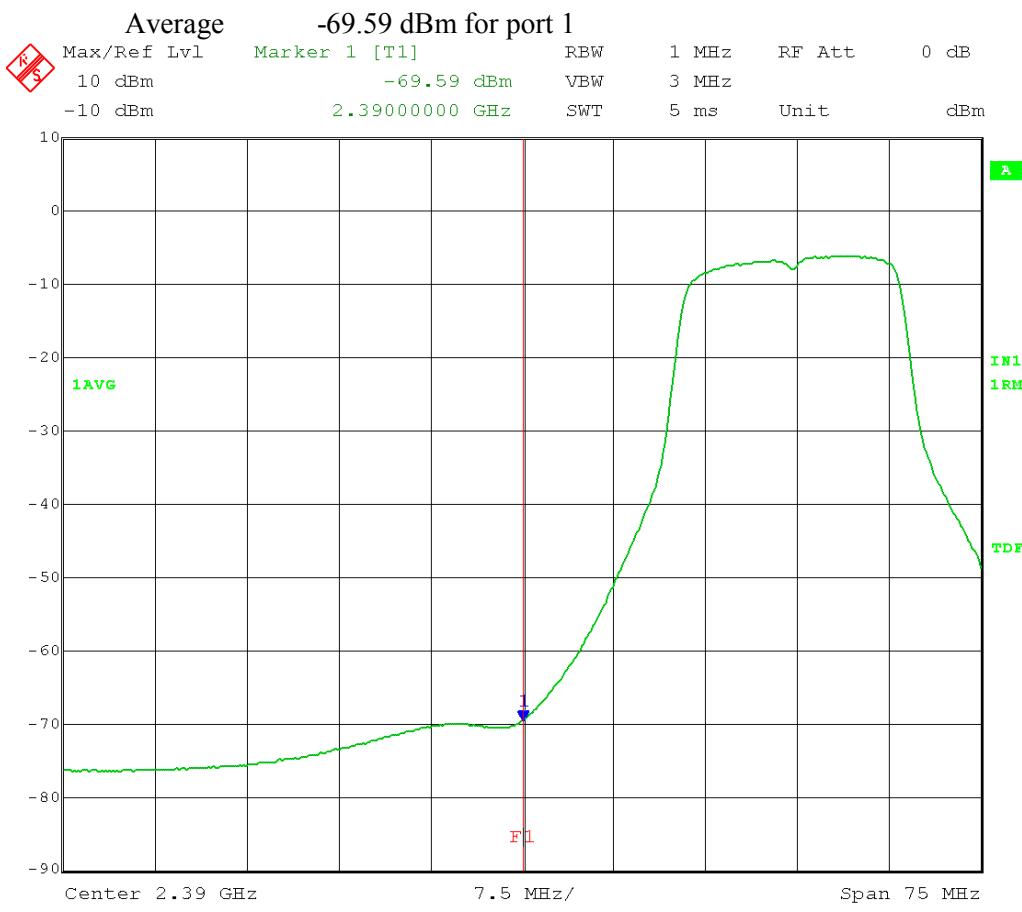
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 17:39:58

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.412 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



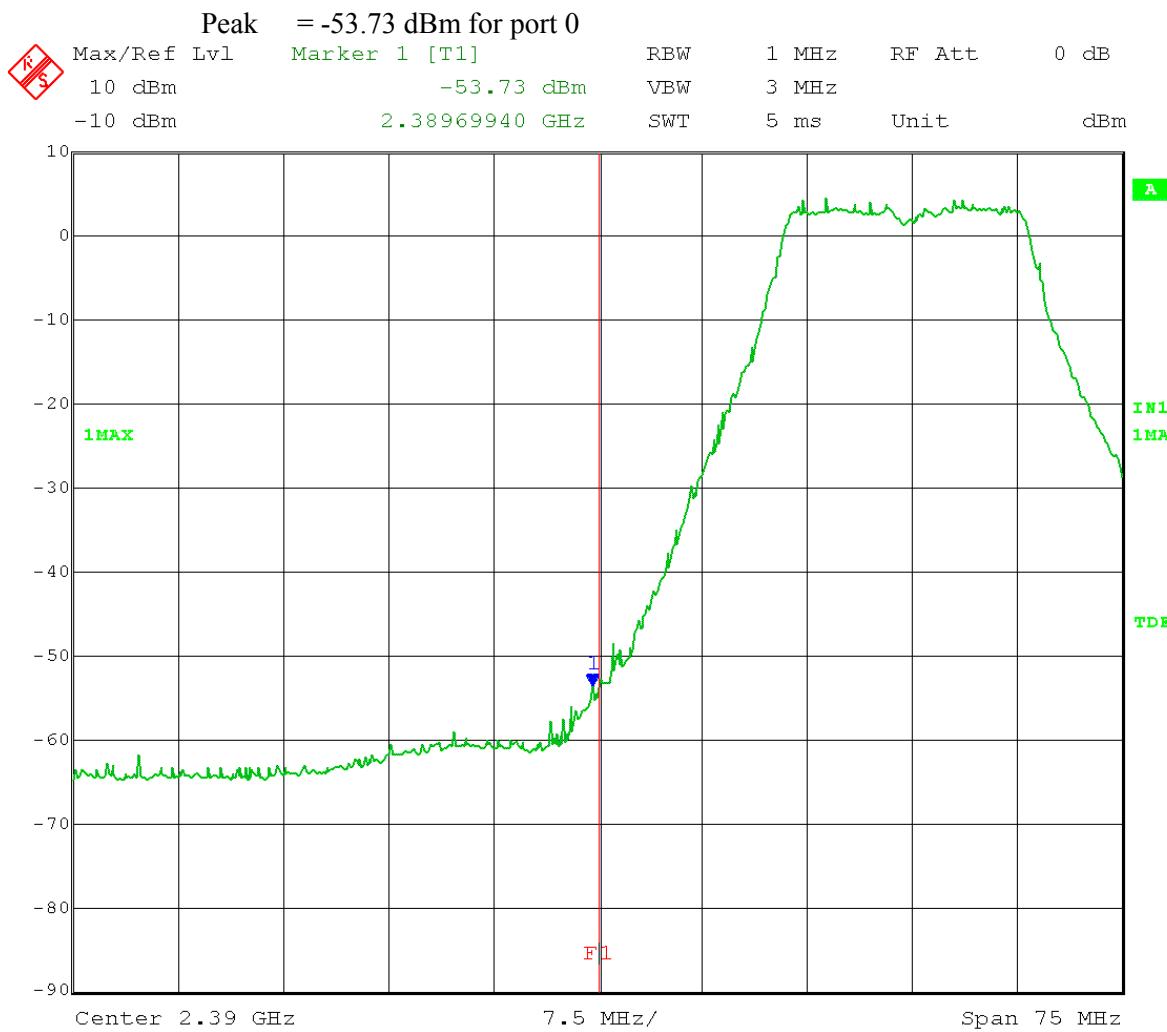
Date: 15.MAR.2014 17:37:42

$$\begin{aligned}
 -69.65 \text{ dBm} &= 0.000000108 \text{ mW} \\
 -69.59 \text{ dBm} &= 0.000000110 \text{ mW} \\
 \text{Total} &= 0.000000108 + 0.000000110 = 0.000000218 \text{ mW} = -66.60 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -66.60 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 53.66 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{0.34}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

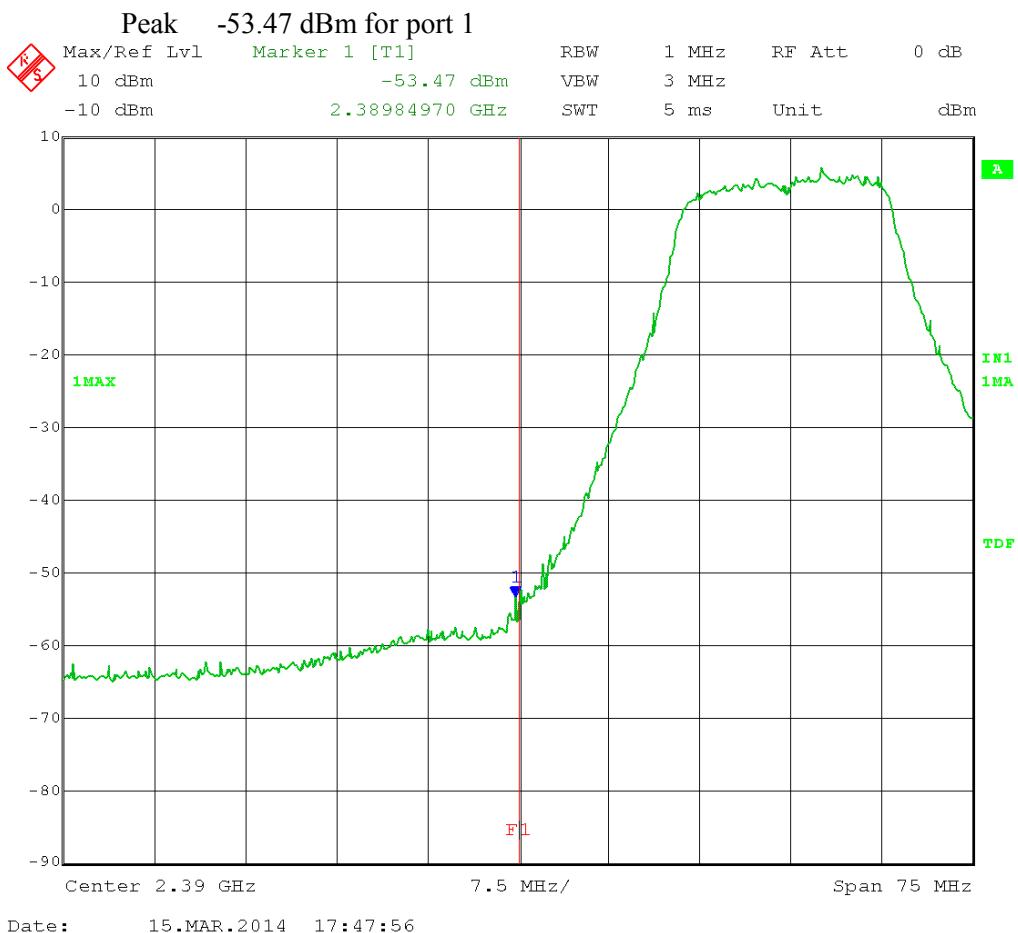
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 17:44:23

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.412 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-53.73 \text{ dBm} = 0.000004236 \text{ mW}$$

$$-53.47 \text{ dBm} = 0.000004498 \text{ mW}$$

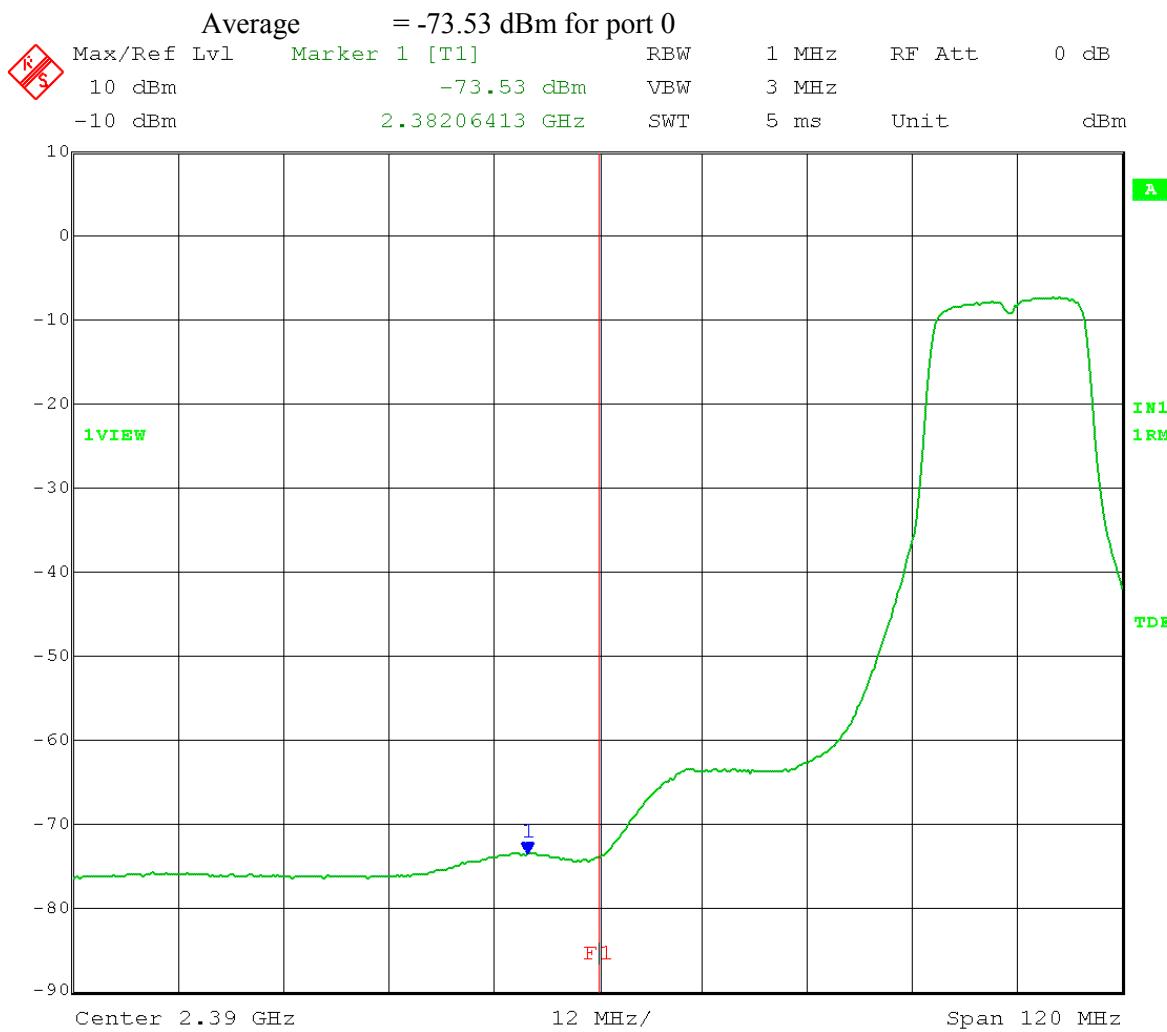
$$\text{Total} = 0.000004236 + 0.000004498 = 0.000008734 \text{ mW} = -50.58 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -50.58 \text{ dBm} + 25 \text{ dB} - 20\log 3 + 104.8 = 69.68 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 4.32 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

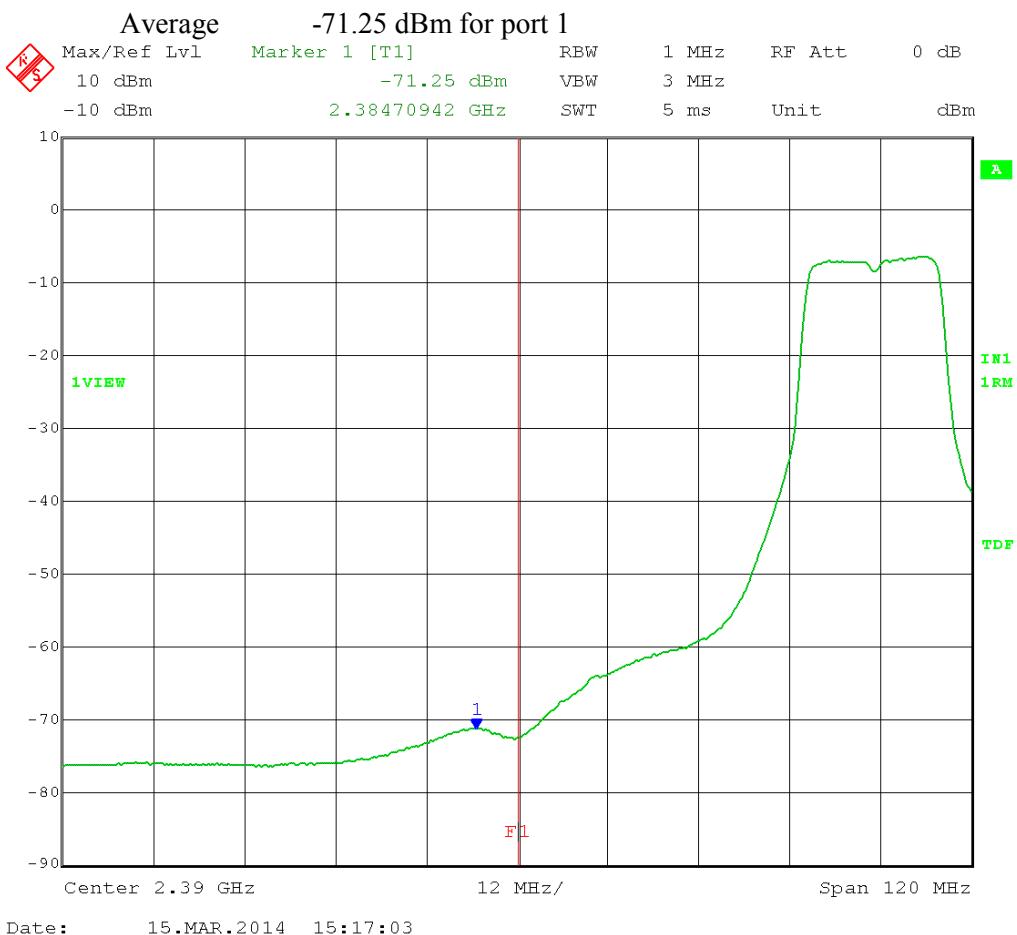
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:14:09

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15

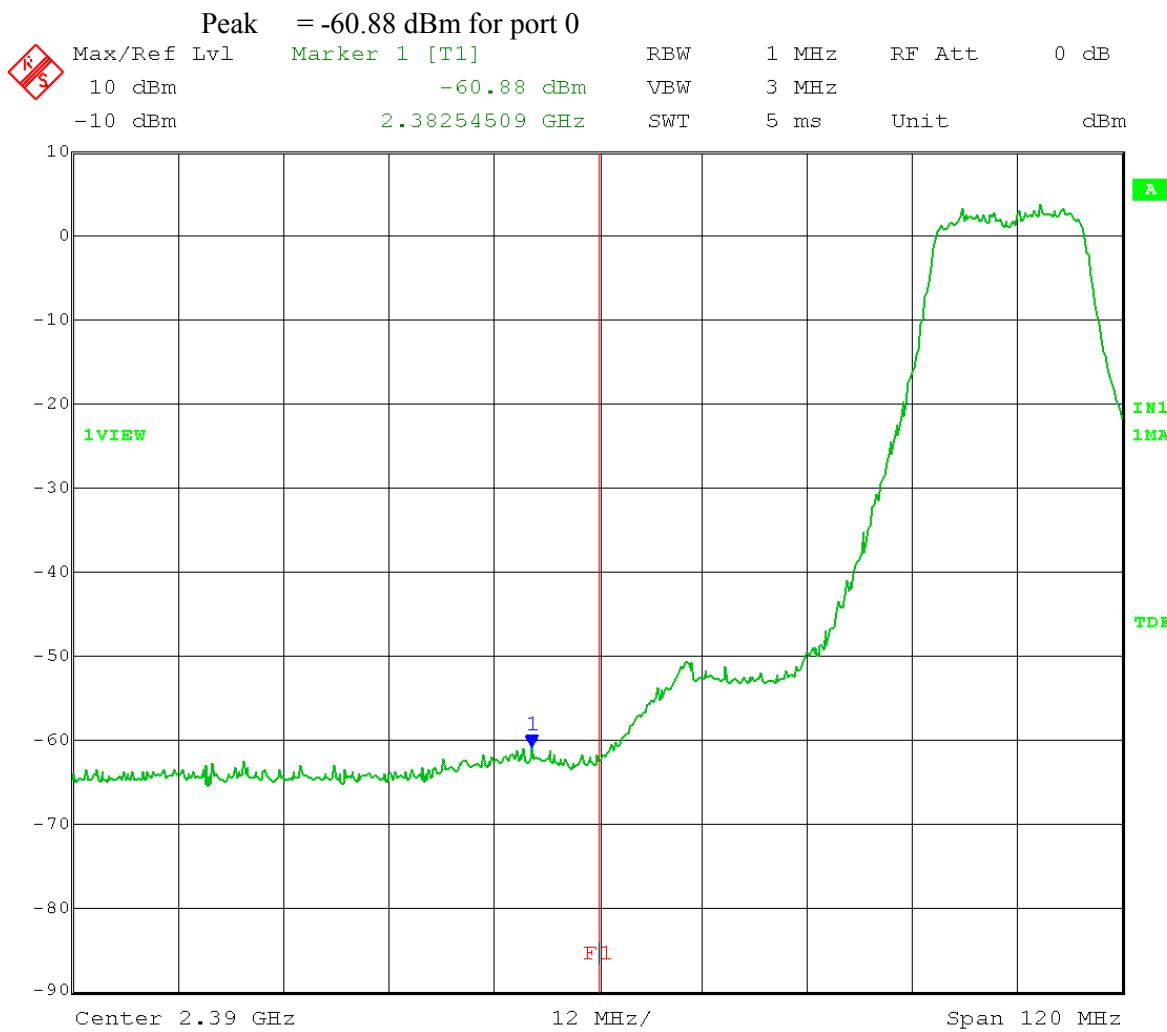


$$\begin{aligned}
 -73.53 \text{ dBm} &= 0.000000044 \text{ mW} \\
 -71.25 \text{ dBm} &= 0.000000075 \text{ mW} \\
 \text{Total} &= 0.000000044 + 0.000000075 = 0.000000119 \text{ mW} = -69.24 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -69.24 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 51.02 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\mathbf{2.98 \text{ dB}}}
 \end{aligned}
 \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

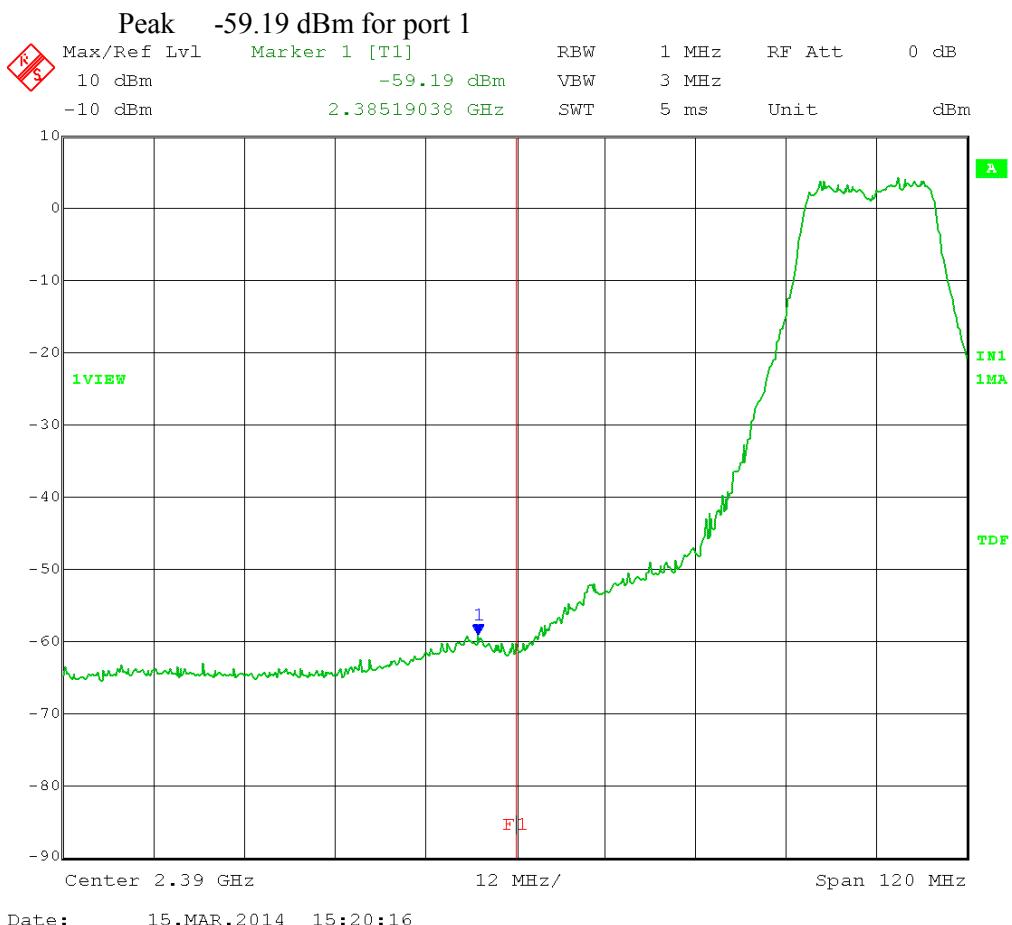
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:23:20

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-60.88 \text{ dBm} = 0.000000817 \text{ mW}$$

$$-59.19 \text{ dBm} = 0.000001205 \text{ mW}$$

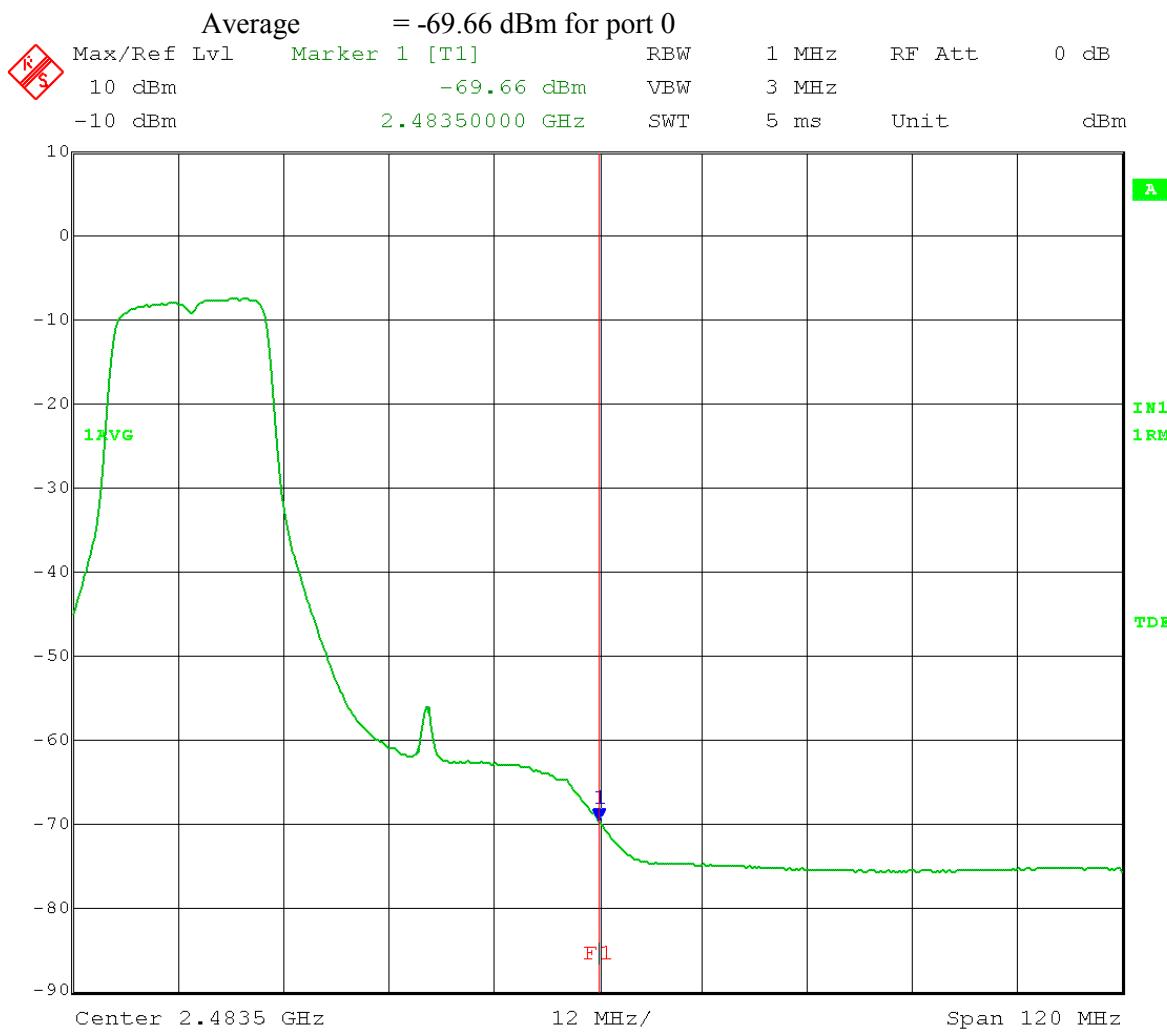
$$\text{Total} = 0.000000817 + 0.000001205 = 0.000002022 \text{ mW} = -56.94 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -56.94 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 63.32 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 10.68 dB (for Peak limit of 74 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

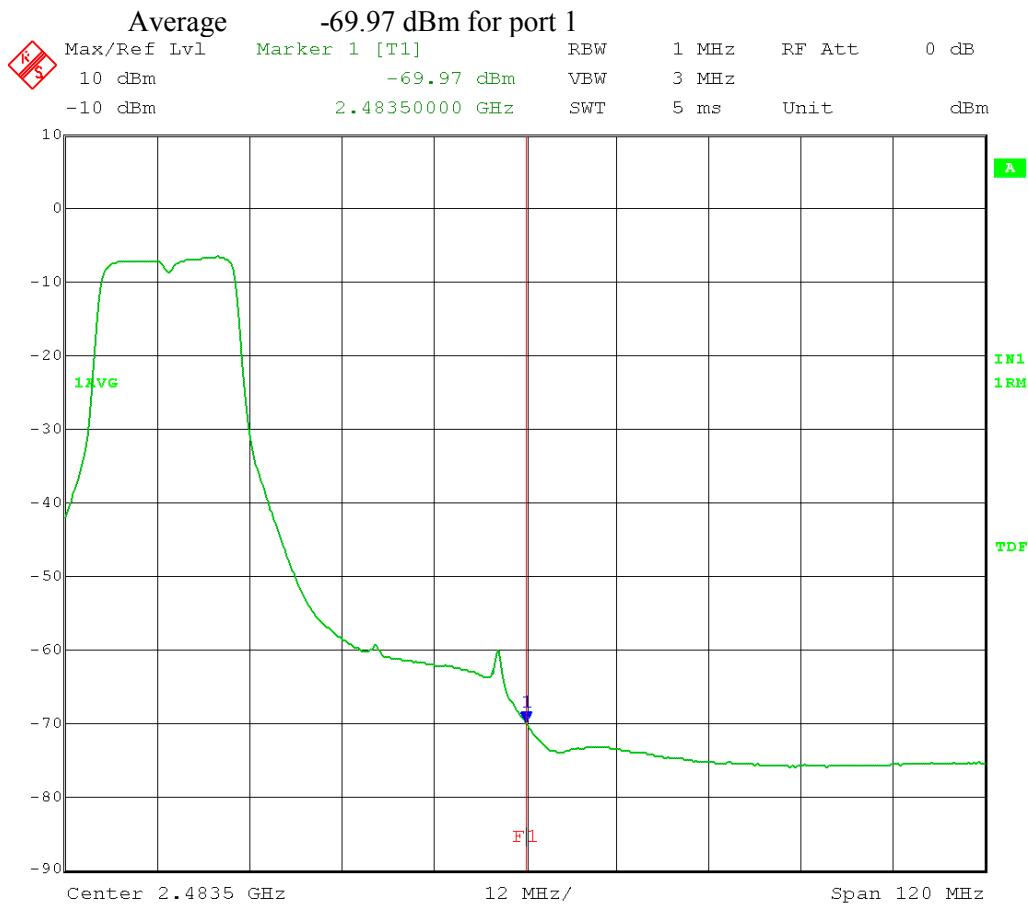
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 14:50:30

Test Date: 03-15-2014
Company: Cambium Networks
EUT: EPMP 2.4 GHz STA MAC: 000456C69680
Test: Band-Edge Measurements – RF Conducted
Operator: Craig B

Comment: RBW = 1MHz
VBW \geq 3MHz
Detector = RMS
Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
Test software power setting: 7
20 MHz CH BW Output port: 1
Restricted Band-Edge Frequency = 2.4835 GHz
Average Limit = 54 dBuV/m
Modulation Type: OFDM MCS15



Date: 15.MAR.2014 14:52:36

$$-69.66 \text{ dBm} = 0.00000108 \text{ mW}$$

-69.97 dBm = 0.000000101 mW

$$\text{Total} = 0.00000108 + 0.00000101 = 0.00000209 \text{ mW} = -66.80 \text{ dBm}$$

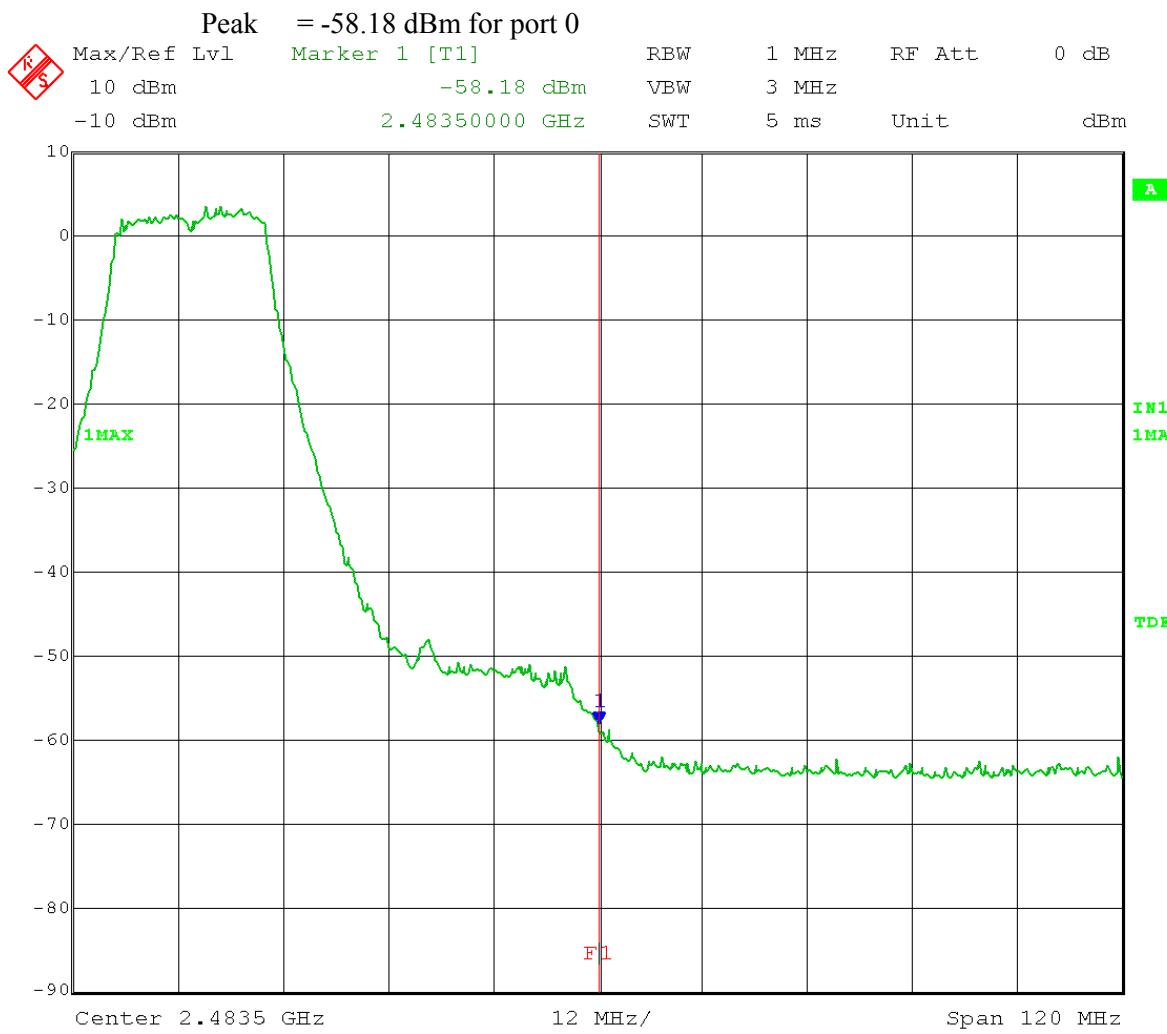
$$E = EIRP - 20\log D + 104.8$$

$$= -66.80 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 53.46 \text{ dB}\mu\text{V/m}$$

Margin = 0.54 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

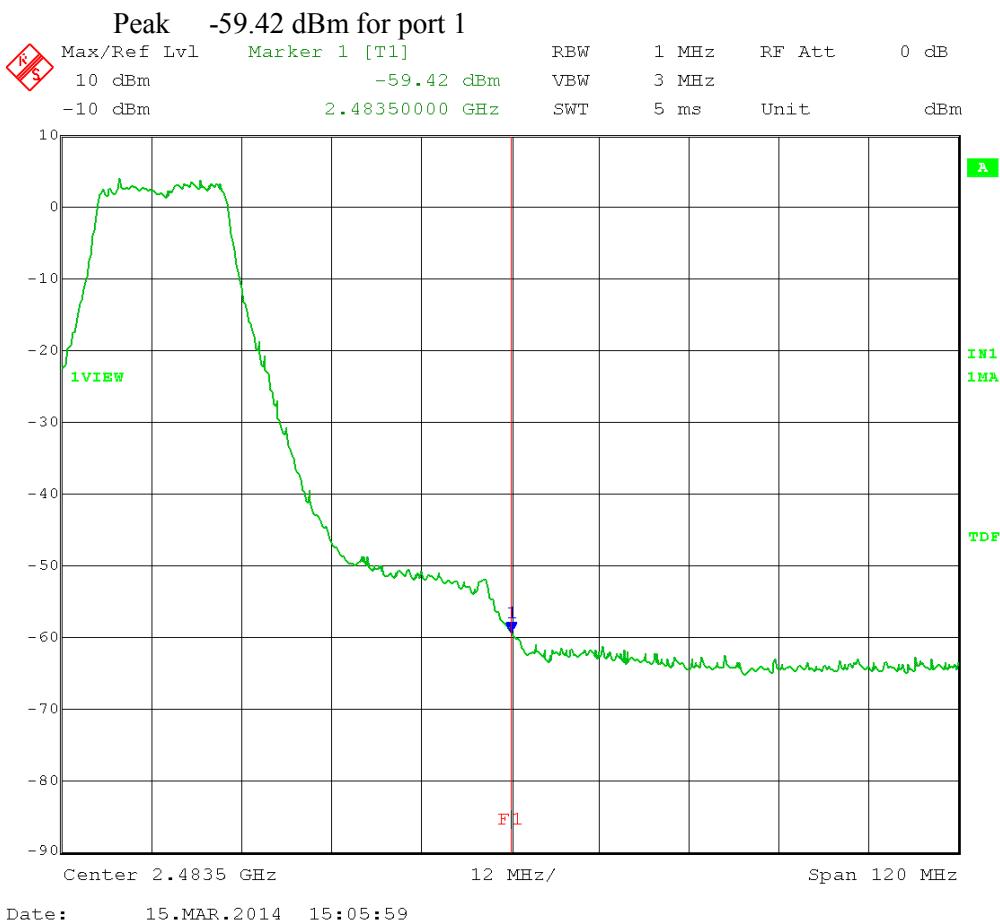
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:08:59

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 7
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



$$-58.18 \text{ dBm} = 0.000001521 \text{ mW}$$

$$-59.42 \text{ dBm} = 0.000001143 \text{ mW}$$

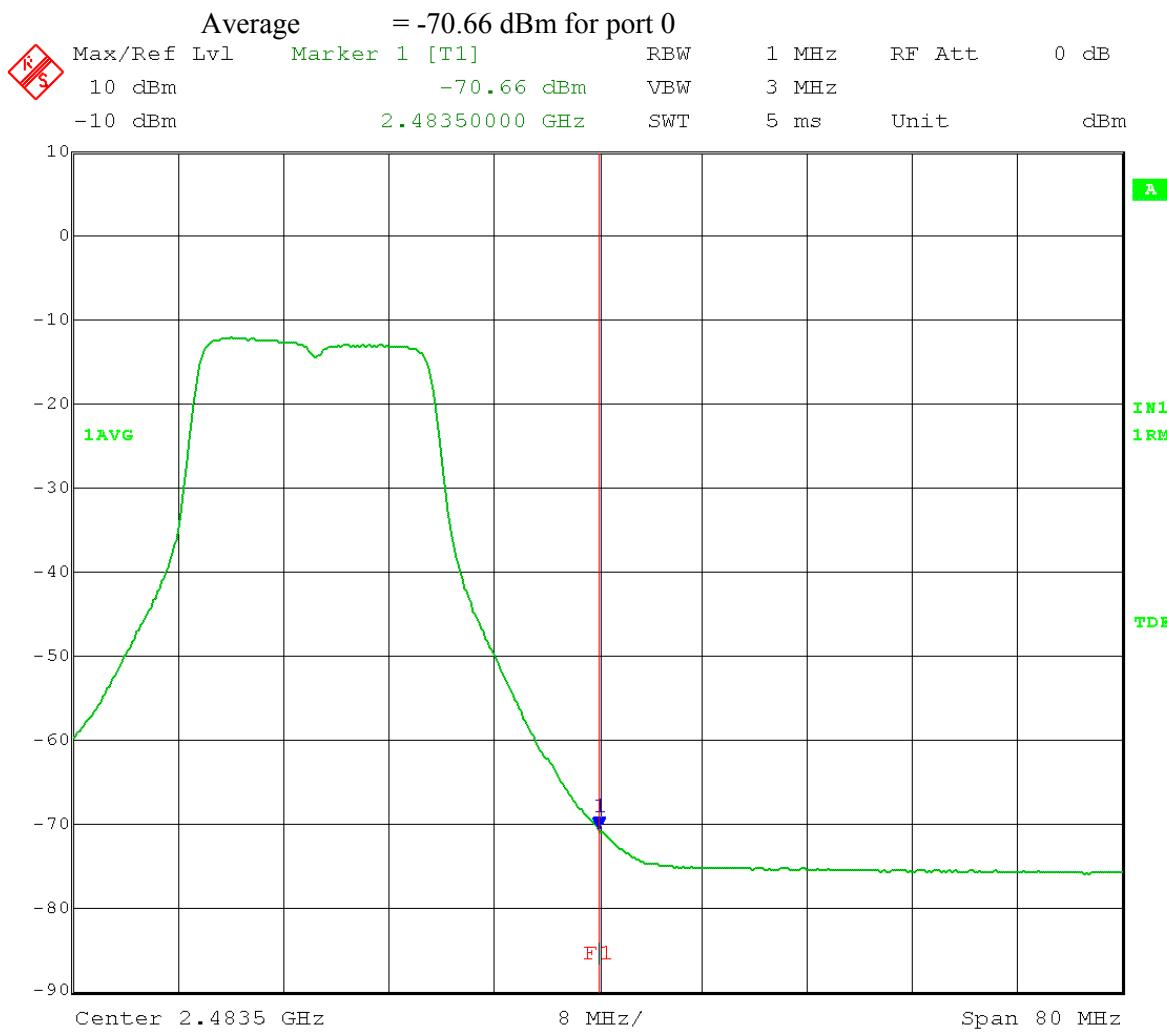
$$\text{Total} = 0.000001521 + 0.000001143 = 0.000002664 \text{ mW} = -55.74 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -55.74 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 64.52 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 9.48 dB (for Peak limit of 74 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

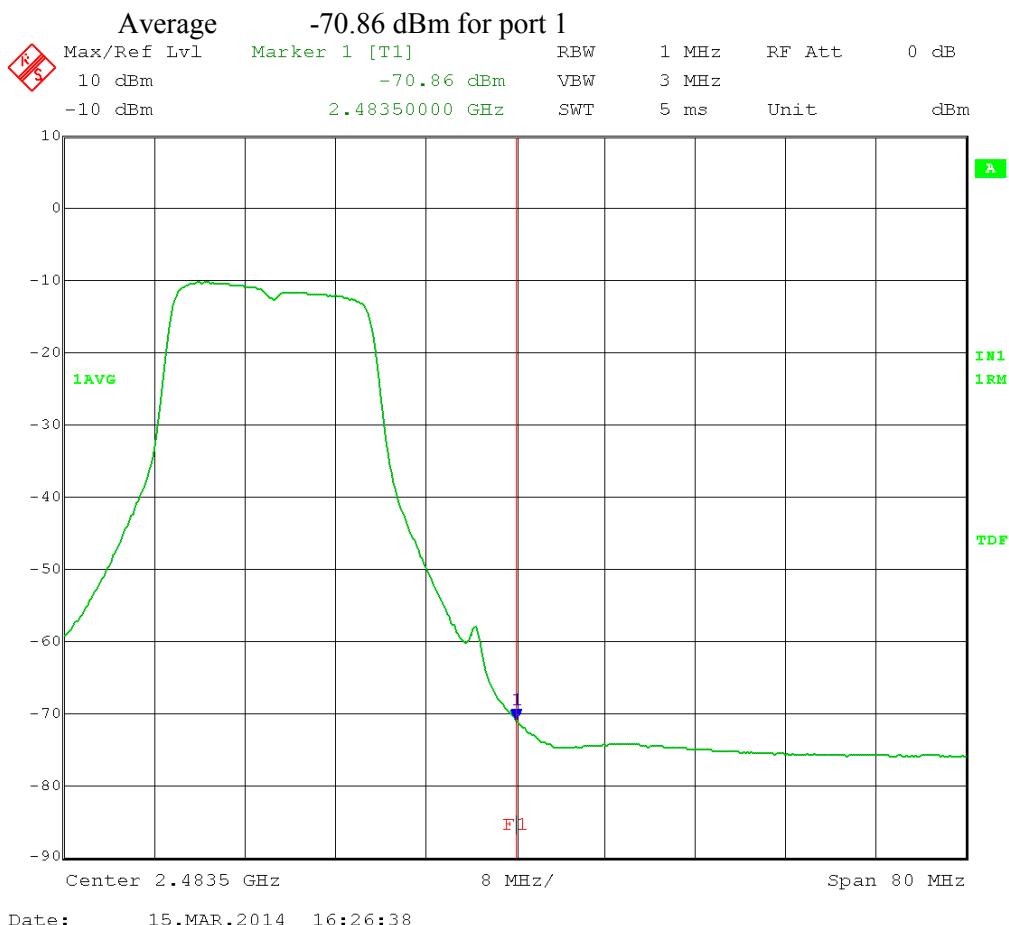
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 High Channel Transmit = 2.462 GHz
 Test software power setting: 2.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 16:24:10

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.462 GHz
 Test software power setting: 2.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-70.66 \text{ dBm} = 0.000000086 \text{ mW}$$

$$-70.86 \text{ dBm} = 0.000000082 \text{ mW}$$

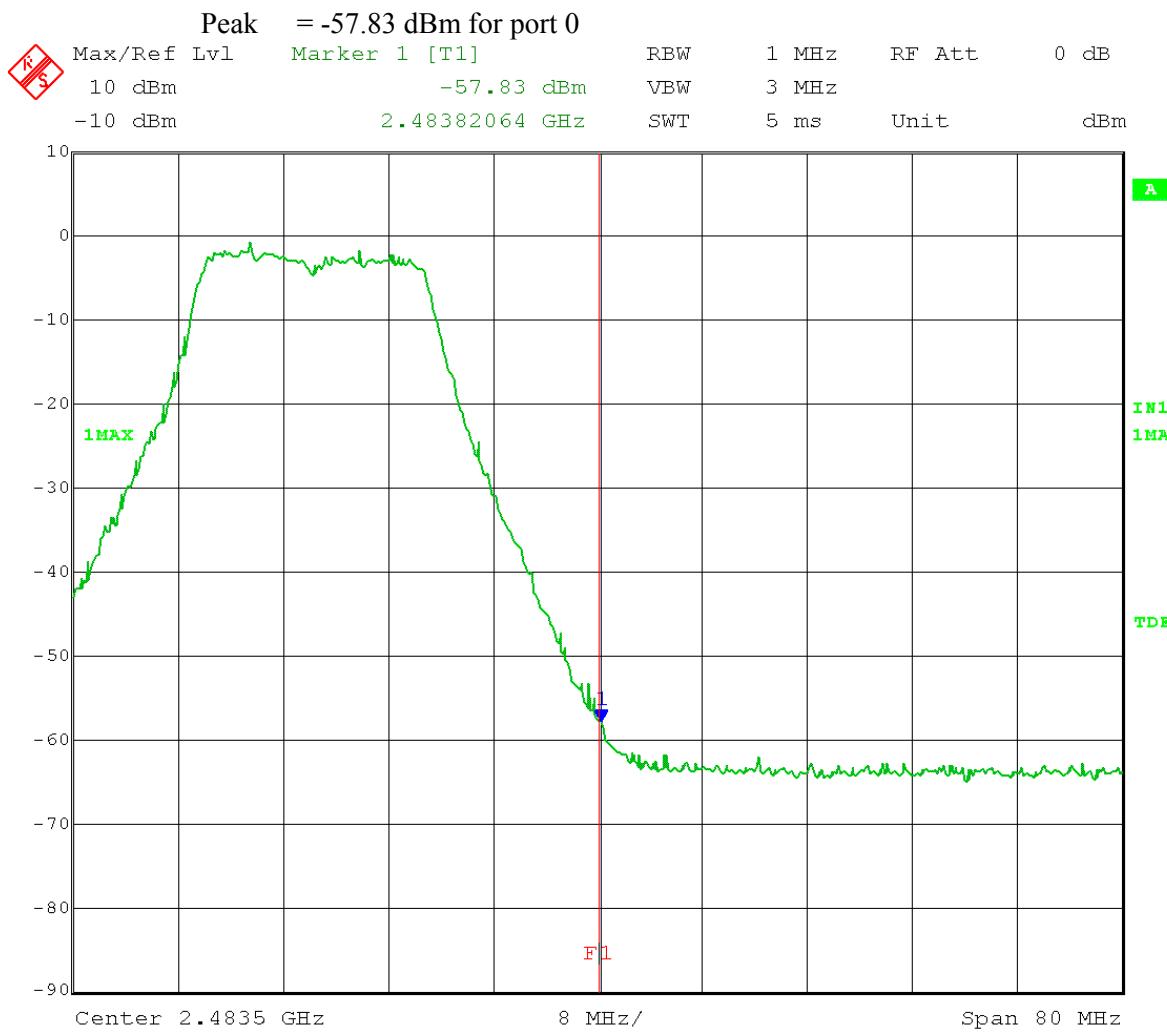
$$\text{Total} = 0.000000086 + 0.000000082 = 0.000000168 \text{ mW} = -67.74 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -67.74 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 52.52 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 1.48 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

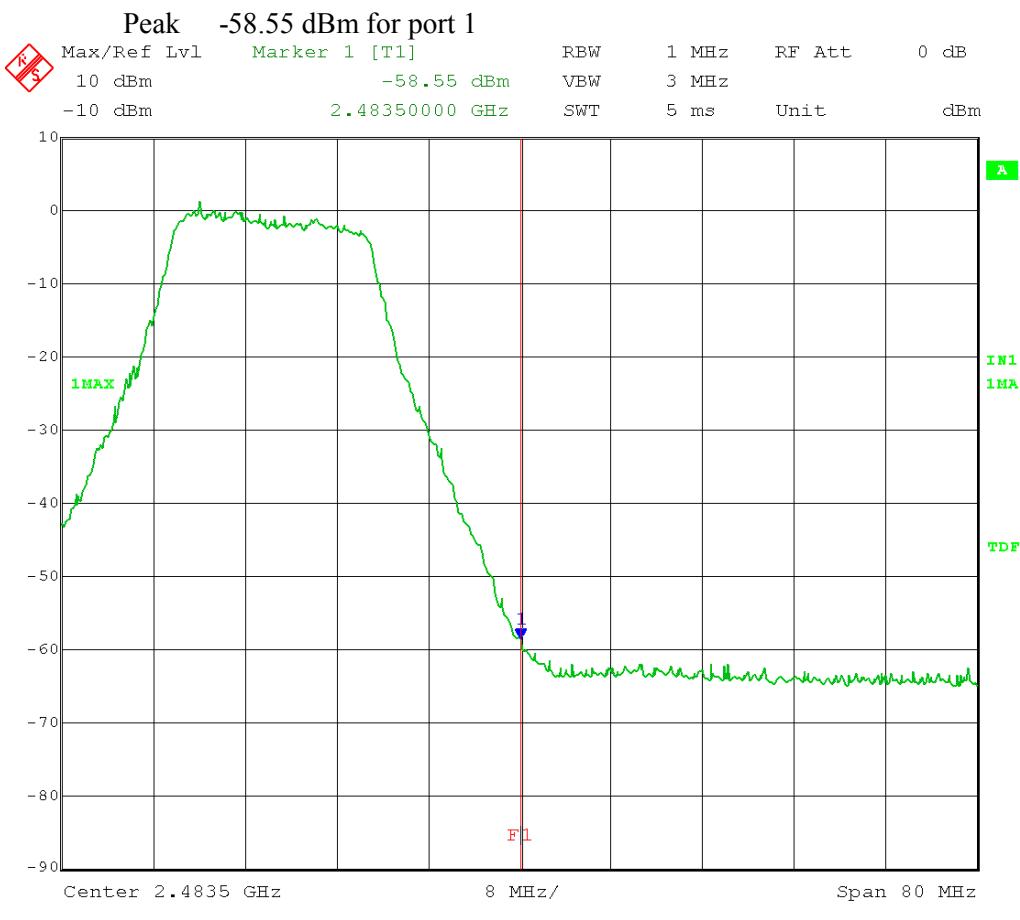
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 2.5
 20 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 16:32:41

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.462 GHz
 Test software power setting: 2.5
 20 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15

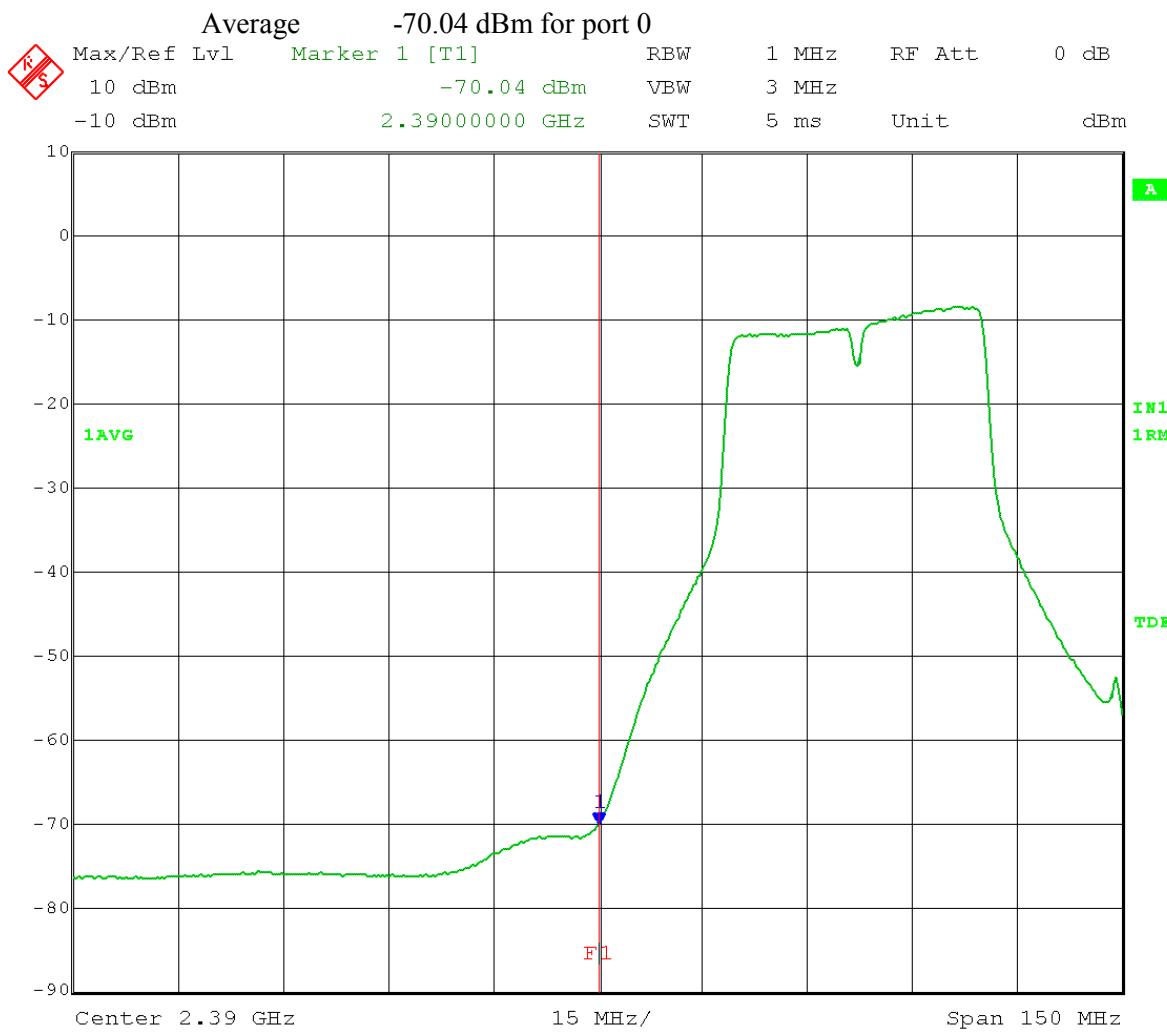


$$\begin{aligned}
 -57.83 \text{ dBm} &= 0.000001648 \text{ mW} \\
 -58.55 \text{ dBm} &= 0.000001396 \text{ mW} \\
 \text{Total} &= 0.000001648 + 0.000001396 = 0.000003044 \text{ mW} = -55.16 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -55.16 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 65.10 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{8.90 dB}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

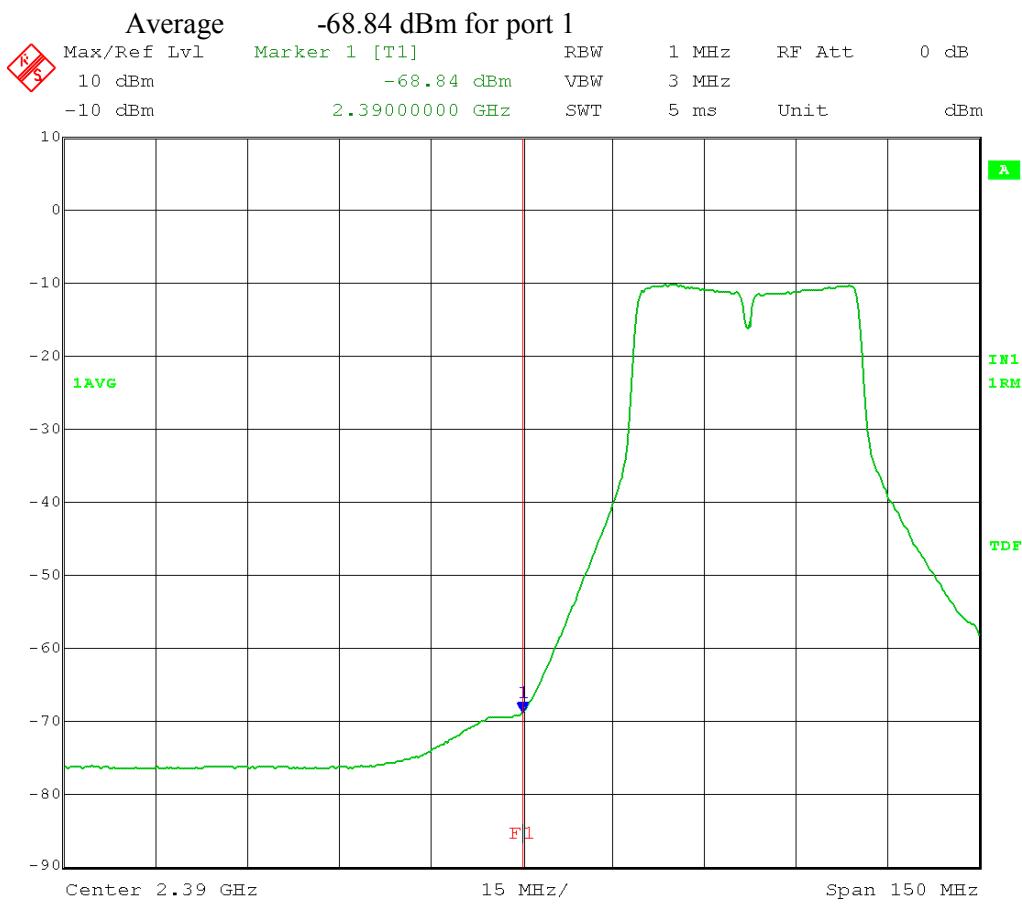
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 17:14:16

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Low Channel Transmit = 2.427 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15

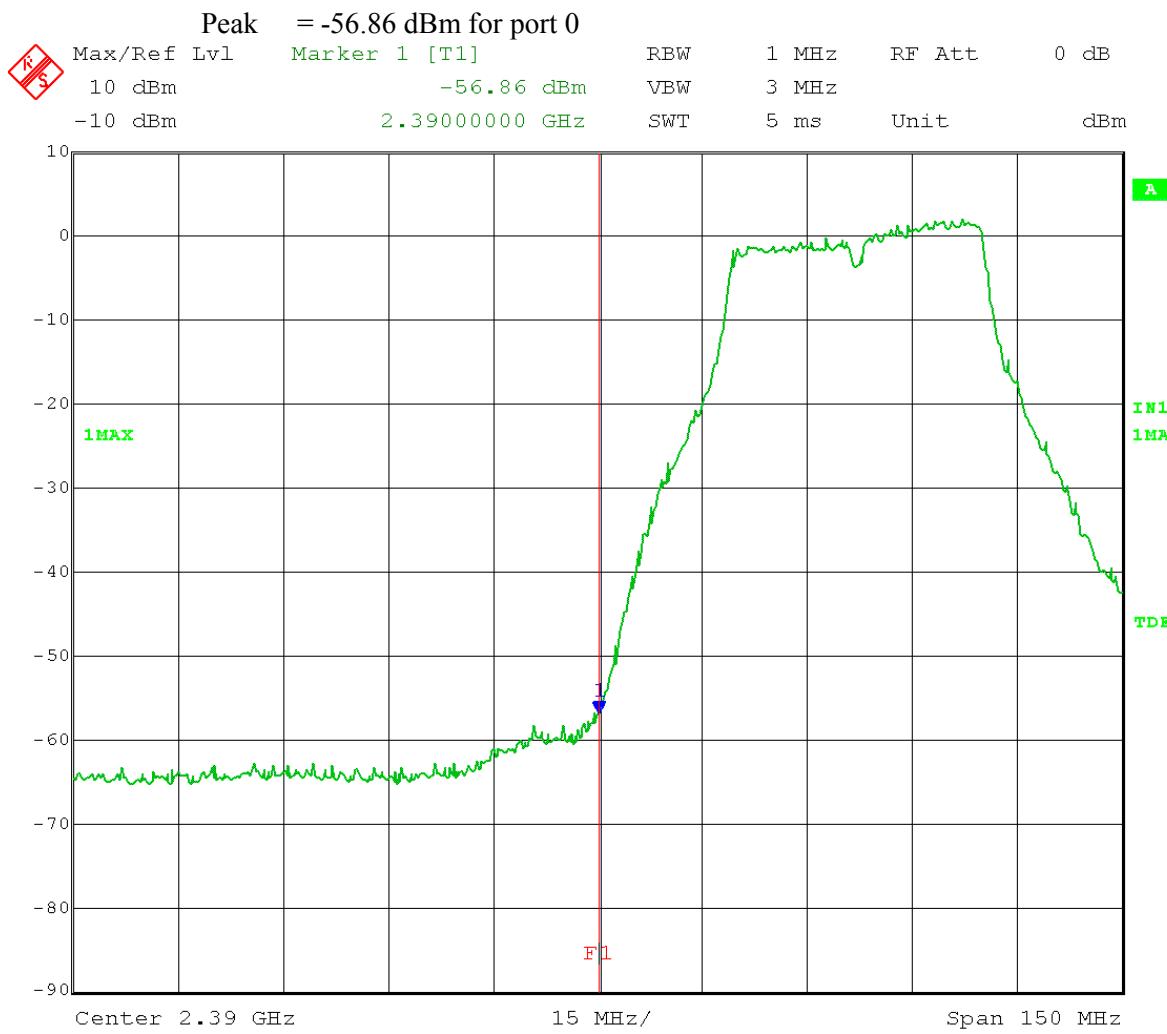


$$\begin{aligned}
 -70.04 \text{ dBm} &= 0.000000099 \text{ mW} \\
 -68.84 \text{ dBm} &= 0.000000131 \text{ mW} \\
 \text{Total} &= 0.000000099 + 0.000000131 = 0.000000230 \text{ mW} = -66.38 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -66.38 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 53.88 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{0.12}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

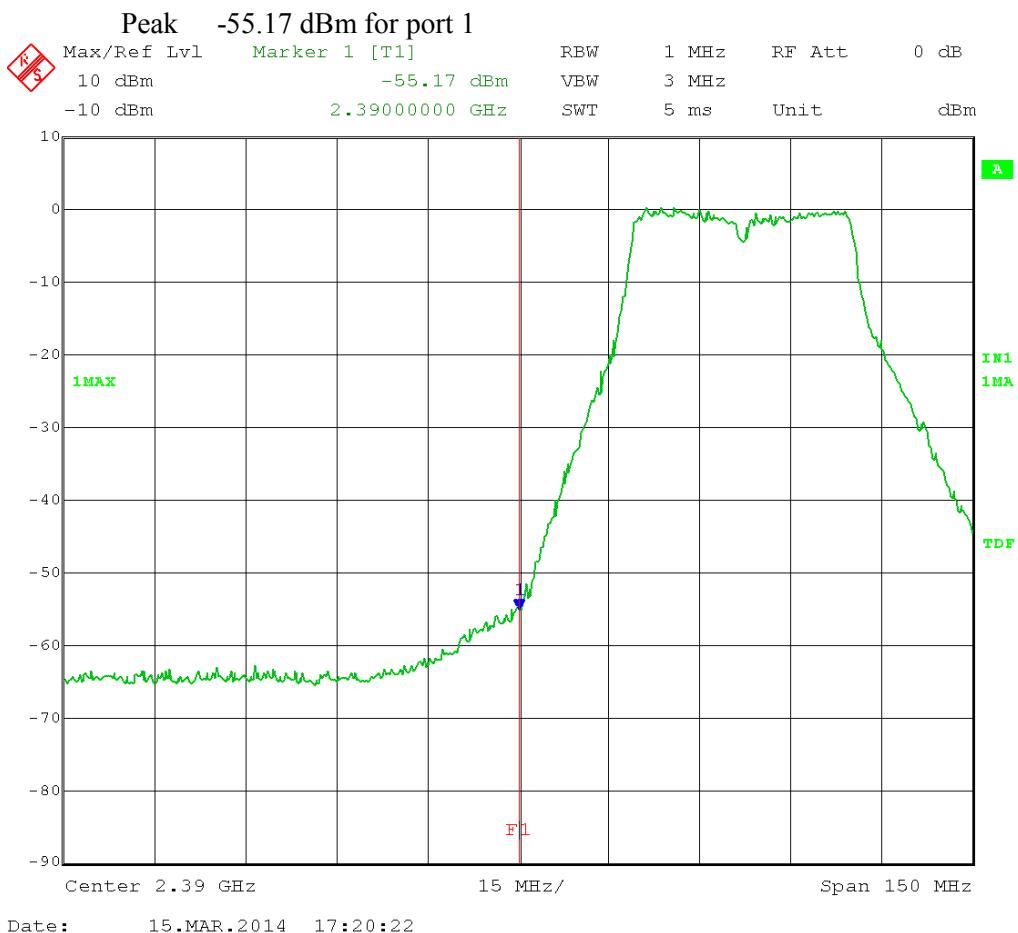
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 17:23:12

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Low Channel Transmit = 2.427 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-56.86 \text{ dBm} = 0.000002061 \text{ mW}$$

$$-55.17 \text{ dBm} = 0.000003041 \text{ mW}$$

$$\text{Total} = 0.000002061 + 0.000003041 = 0.000005102 \text{ mW} = -52.92 \text{ dBm}$$

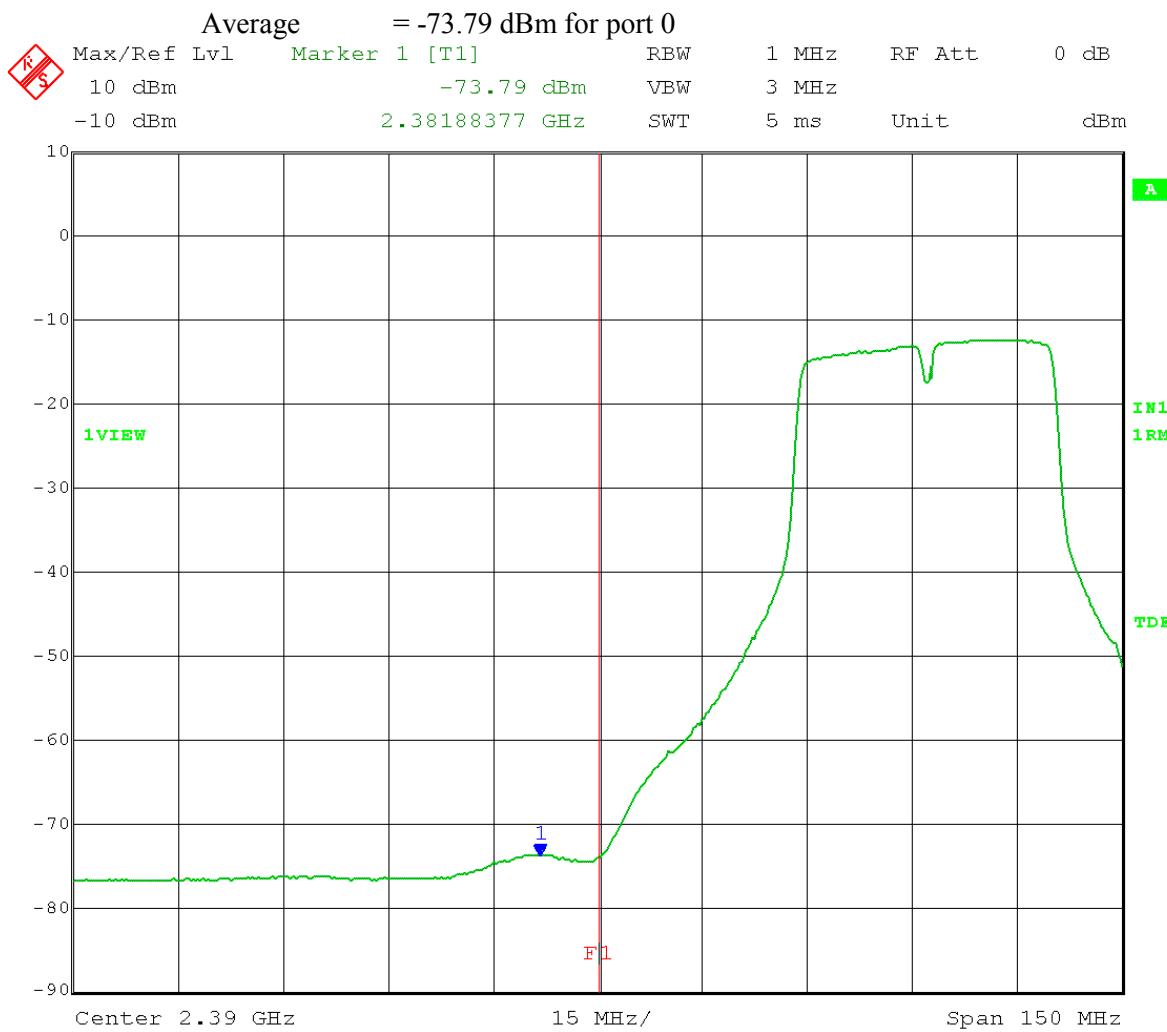
$$E = EIRP - 20\log D + 104.8$$

$$= -52.92 \text{ dBm} + 25 \text{ dB} - 20\log 3 + 104.8 = 67.34 \text{ dB}\mu\text{V/m}$$

Margin = 6.66 dB (for Peak limit of 74 dBuV/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

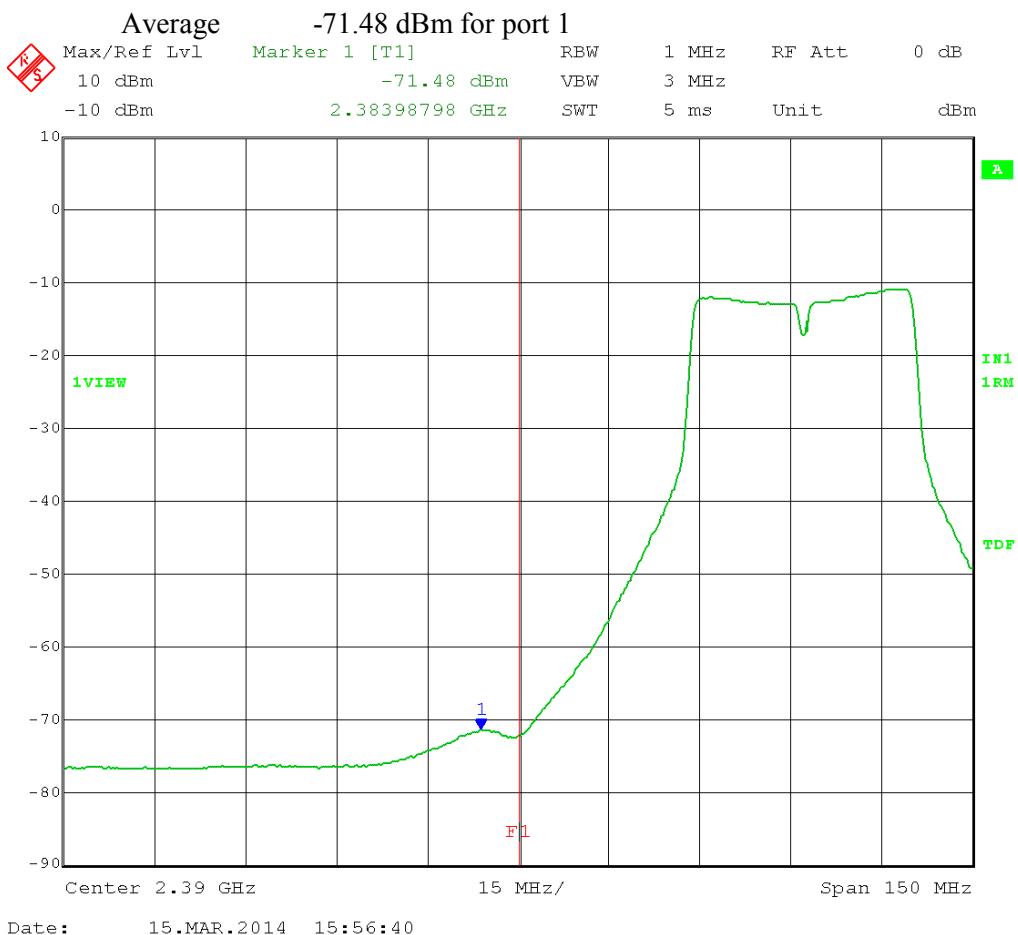
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:59:08

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15

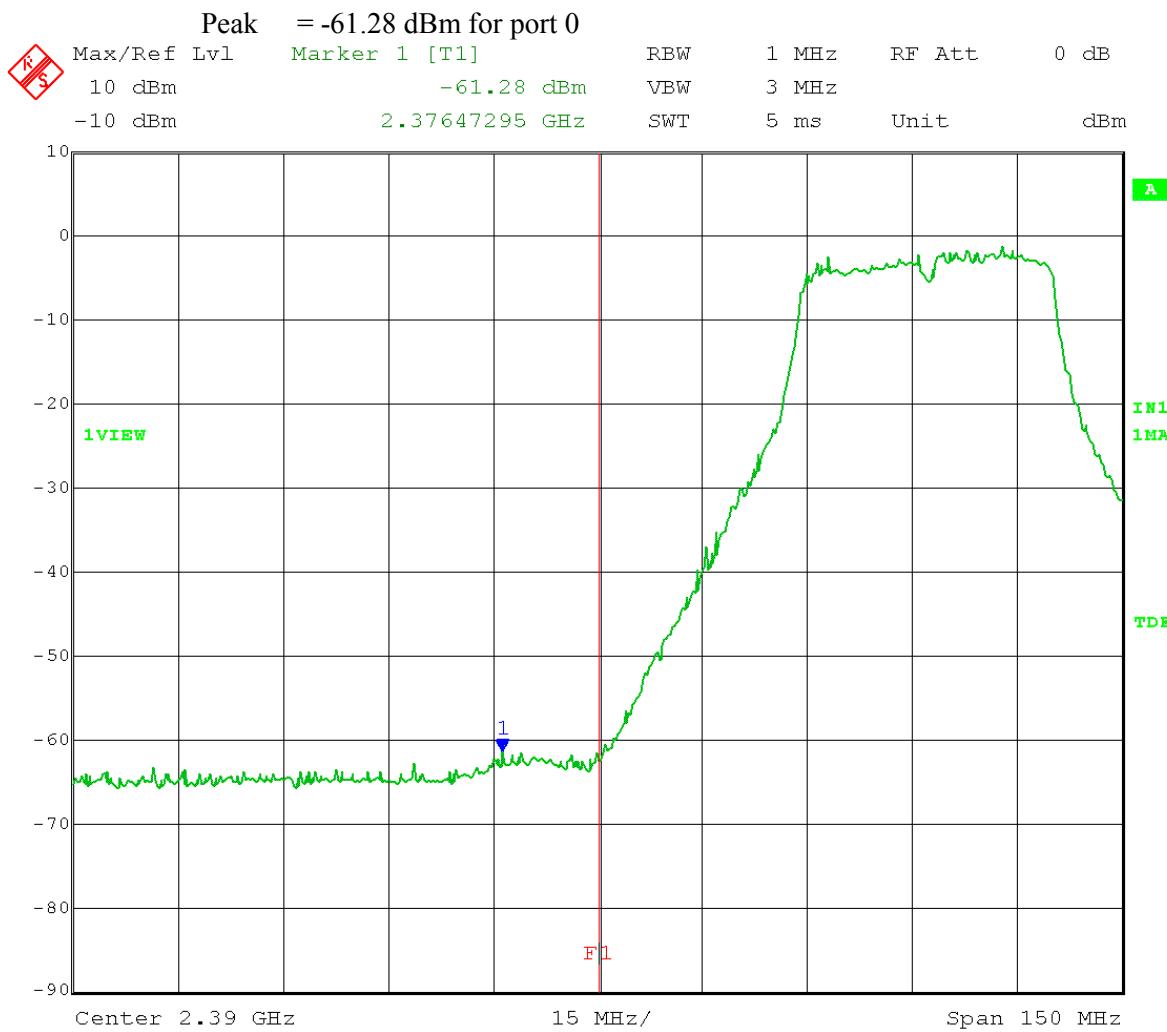


$$\begin{aligned}
 -73.79 \text{ dBm} &= 0.000000042 \text{ mW} \\
 -71.48 \text{ dBm} &= 0.000000071 \text{ mW} \\
 \text{Total} &= 0.000000042 + 0.000000071 = 0.000000113 \text{ mW} = -69.47 \text{ dBm}
 \end{aligned}$$

$$\begin{aligned}
 E &= \text{EIRP} - 20\log D + 104.8 \\
 &= -69.47 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 50.79 \text{ dB}\mu\text{V/m} \\
 \text{Margin} &= \underline{\text{3.21 dB}} \text{ (for Average limit of } 54 \text{ dB}\mu\text{V/m)}
 \end{aligned}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

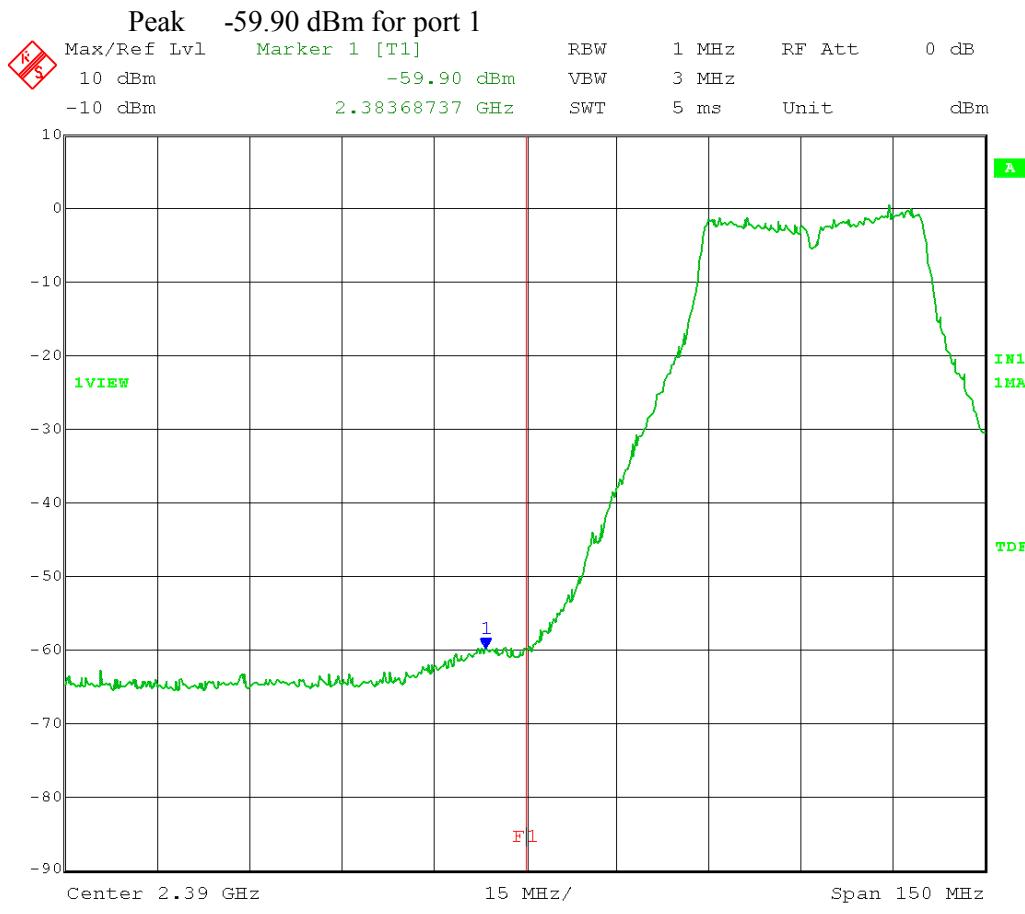
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 16:02:44

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.390 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-61.28 \text{ dBm} = 0.000000745 \text{ mW}$$

$$-59.90 \text{ dBm} = 0.000001023 \text{ mW}$$

$$\text{Total} = 0.000000745 + 0.000001023 = 0.000001768 \text{ mW} = -57.52 \text{ dBm}$$

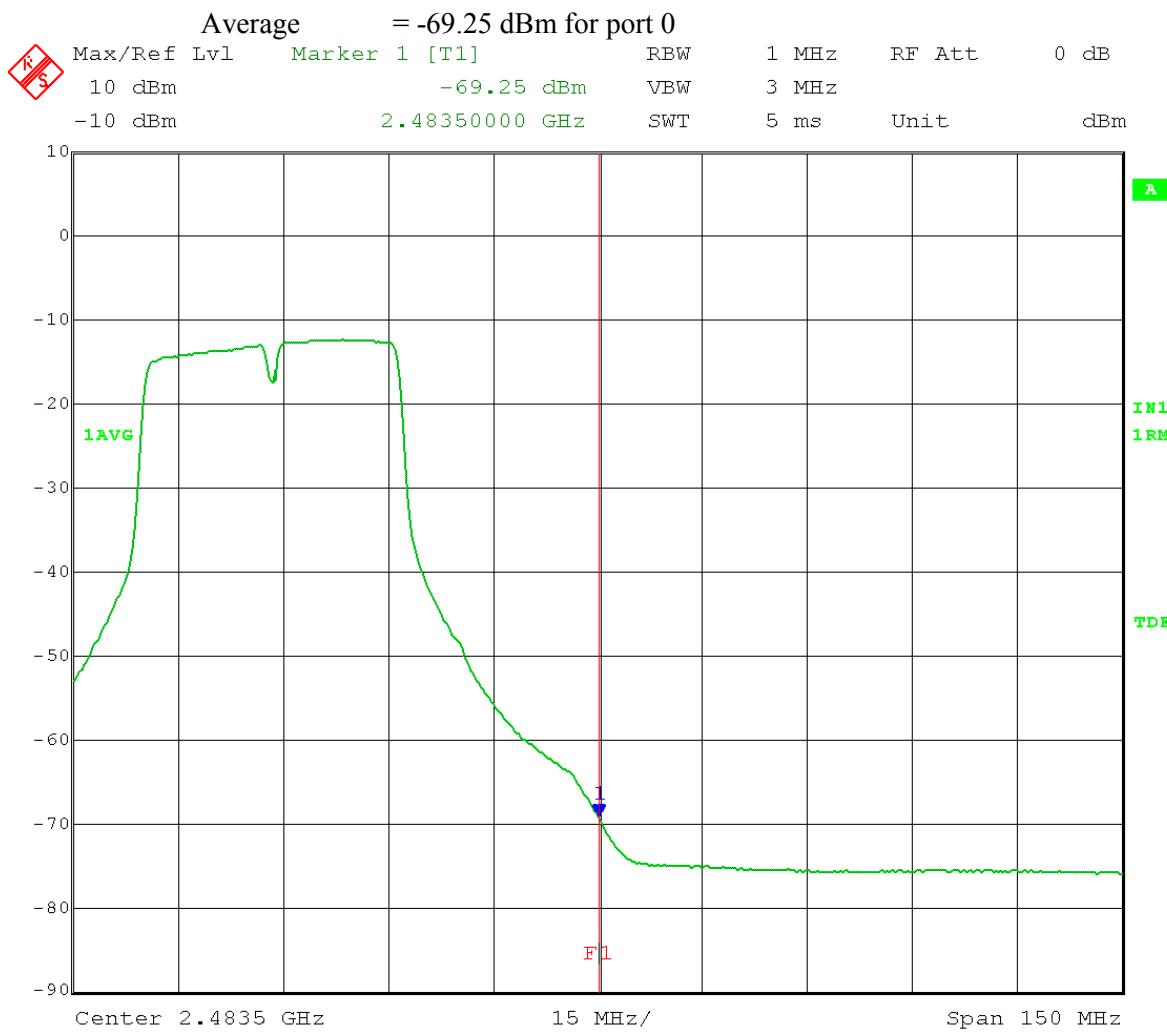
$$E = EIRP - 20\log D + 104.8$$

$$= -57.52 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 62.74 \text{ dB}\mu\text{V/m}$$

$$\underline{\text{Margin = 11.26 dB}} \text{ (for Peak limit of } 74 \text{ dB}\mu\text{V/m)}$$

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

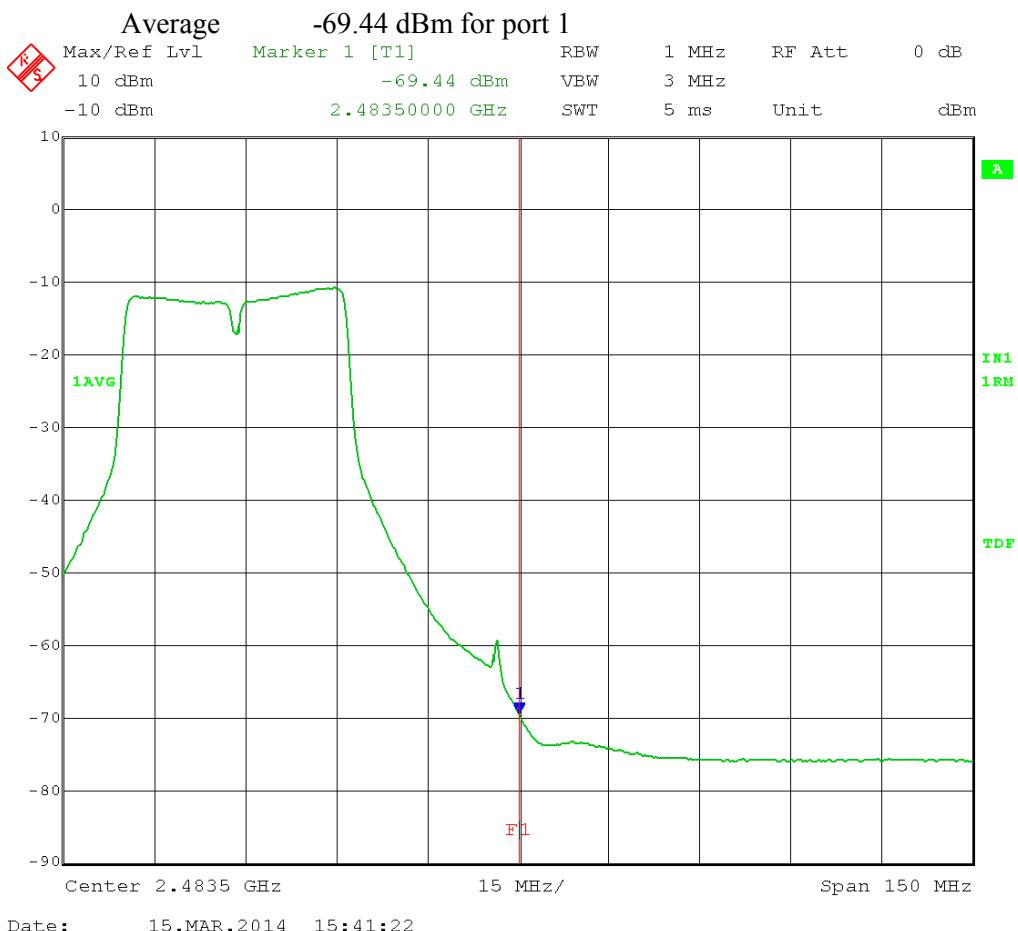
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:44:02

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-69.25 \text{ dBm} = 0.000000119 \text{ mW}$$

$$-69.44 \text{ dBm} = 0.000000114 \text{ mW}$$

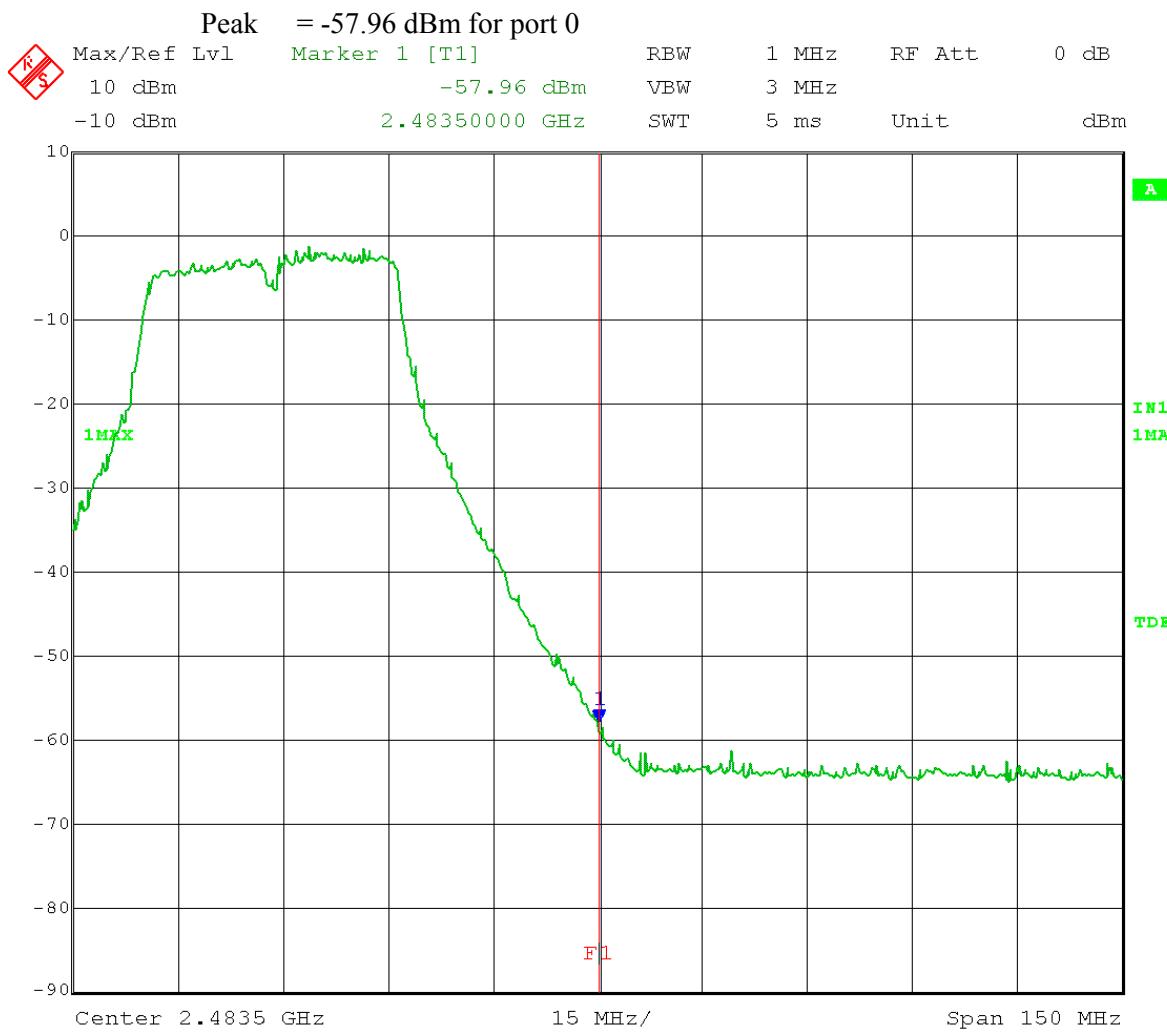
$$\text{Total} = 0.000000119 + 0.000000114 = 0.000000233 \text{ mW} = -66.32 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -66.32 \text{ dBm} + 25 \text{ dB} - 20\log 3 + 104.8 = 53.94 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 0.06 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

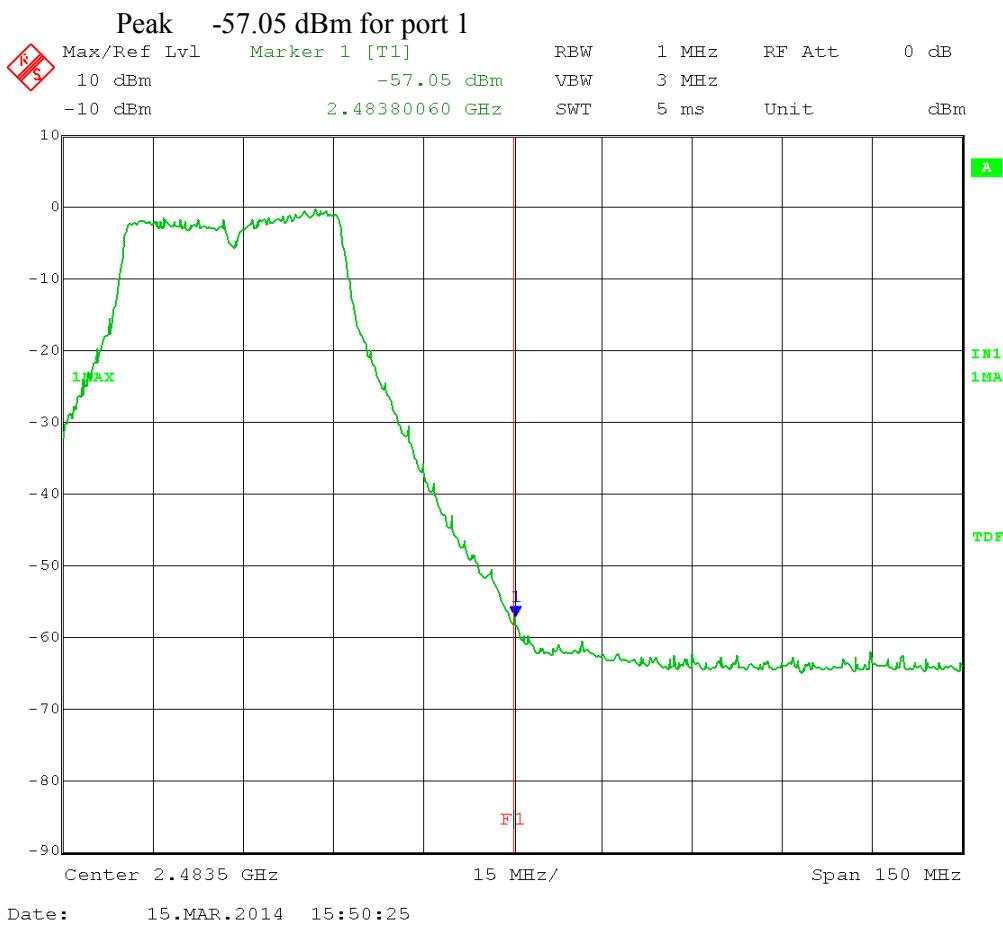
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 15:47:21

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
Mid Channel Transmit = 2.437 GHz
 Test software power setting: 4.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dB μ V/m
 Modulation Type: OFDM MCS15



$$-57.96 \text{ dBm} = 0.000001600 \text{ mW}$$

$$-57.05 \text{ dBm} = 0.000001972 \text{ mW}$$

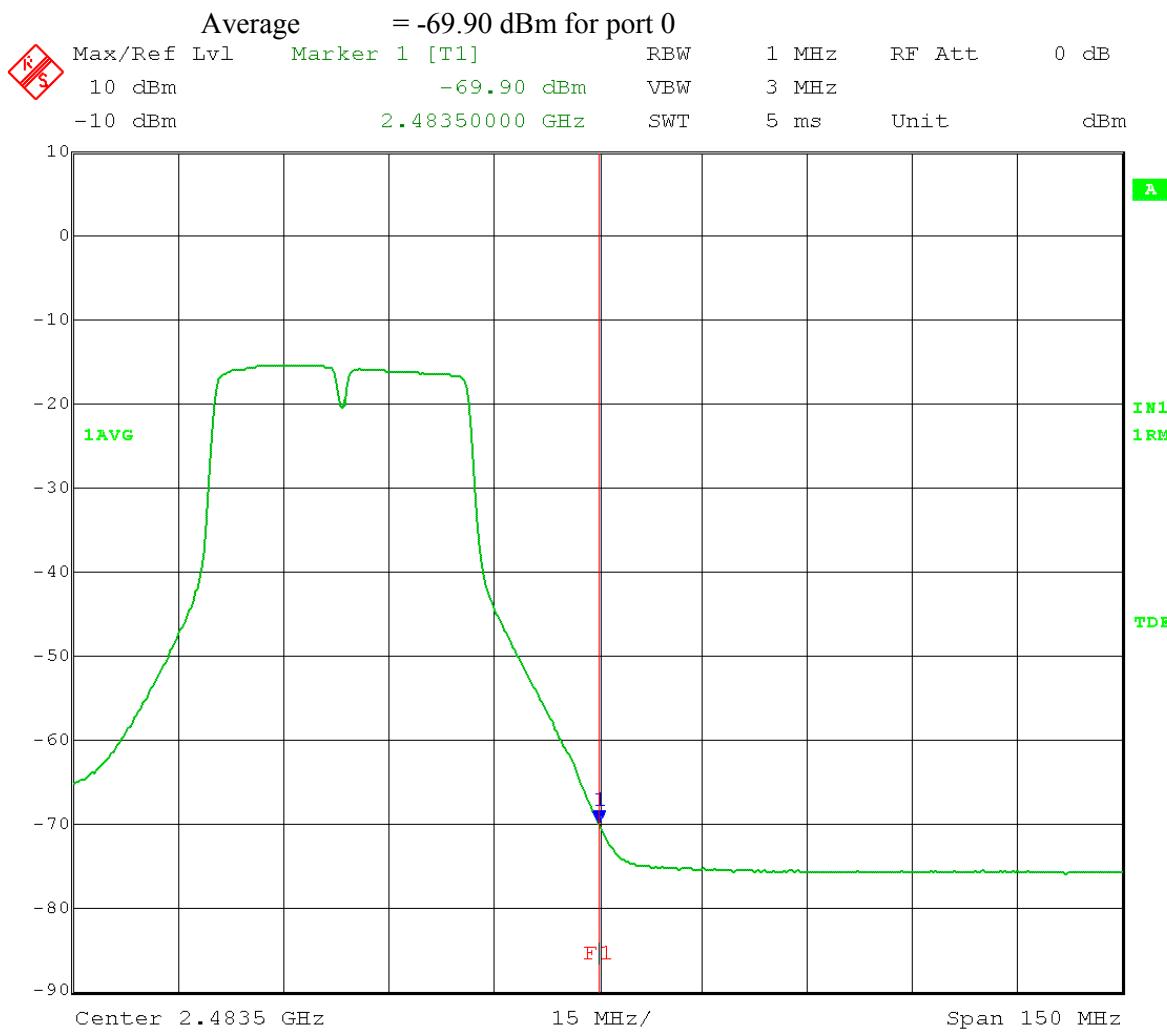
$$\text{Total} = 0.000001600 + 0.000001972 = 0.000003572 \text{ mW} = -54.47 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -54.47 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 65.79 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 8.21 dB (for Peak limit of 74 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

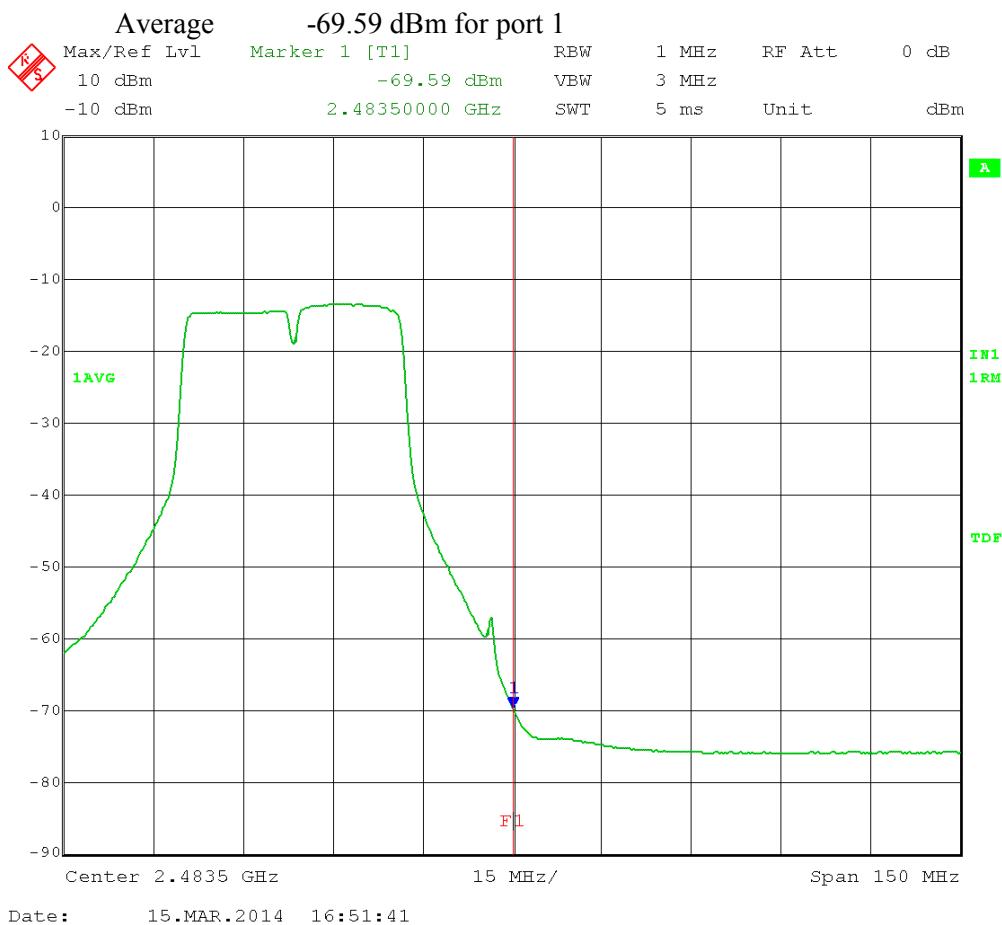
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
 High Channel Transmit = 2.447 GHz
 Test software power setting: 2.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 16:53:57

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = RMS
 Trace mode = Average 200 traces
High Channel Transmit = 2.447 GHz
 Test software power setting: 2.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Average Limit = 54 dB μ V/m
 Modulation Type: OFDM MCS15



$$-69.90 \text{ dBm} = 0.000000102 \text{ mW}$$

$$-69.59 \text{ dBm} = 0.000000110 \text{ mW}$$

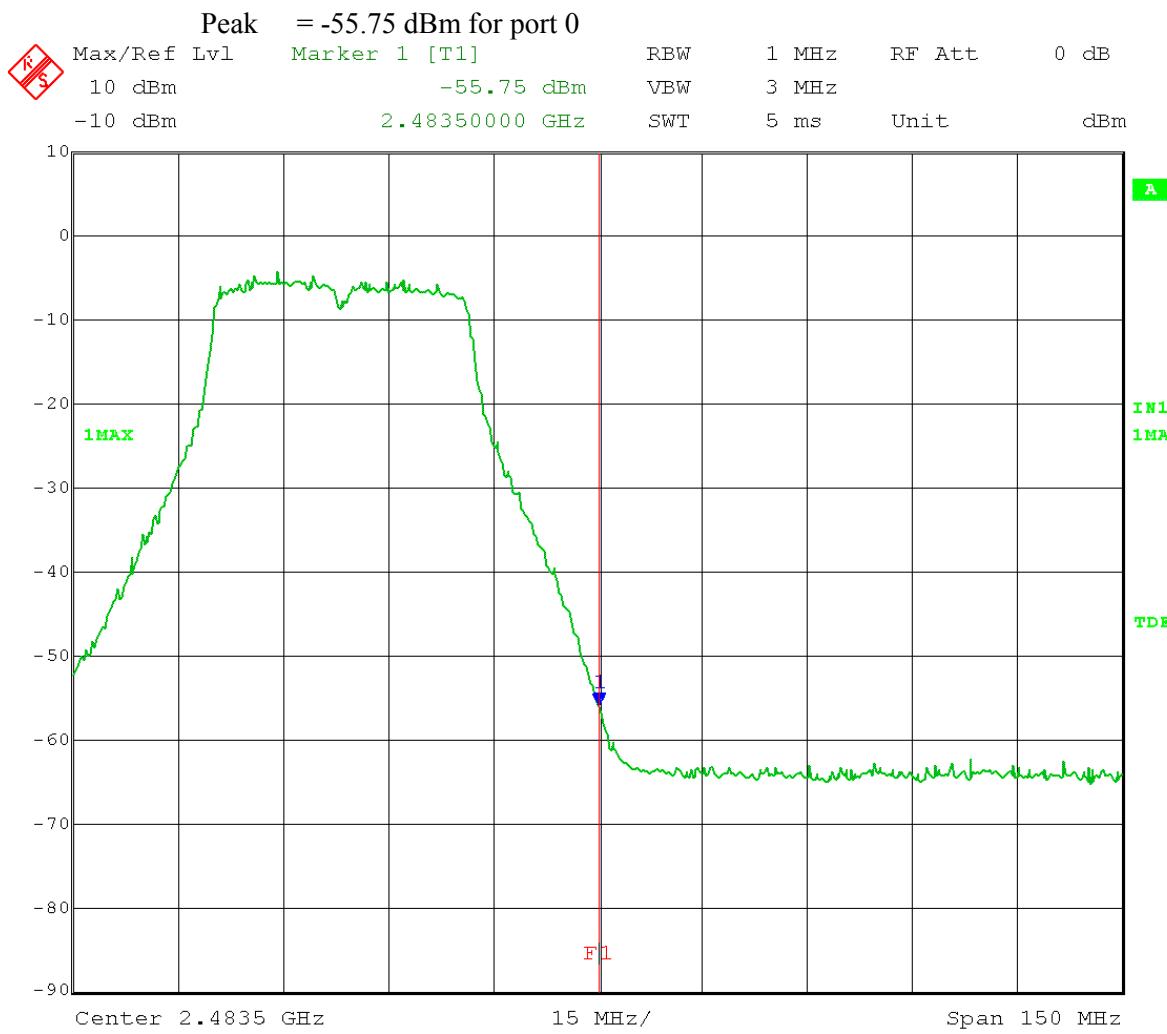
$$\text{Total} = 0.000000102 + 0.000000110 = 0.000000212 \text{ mW} = -66.72 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -66.72 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 53.54 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 0.46 dB (for Average limit of 54 dB μ V/m)

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

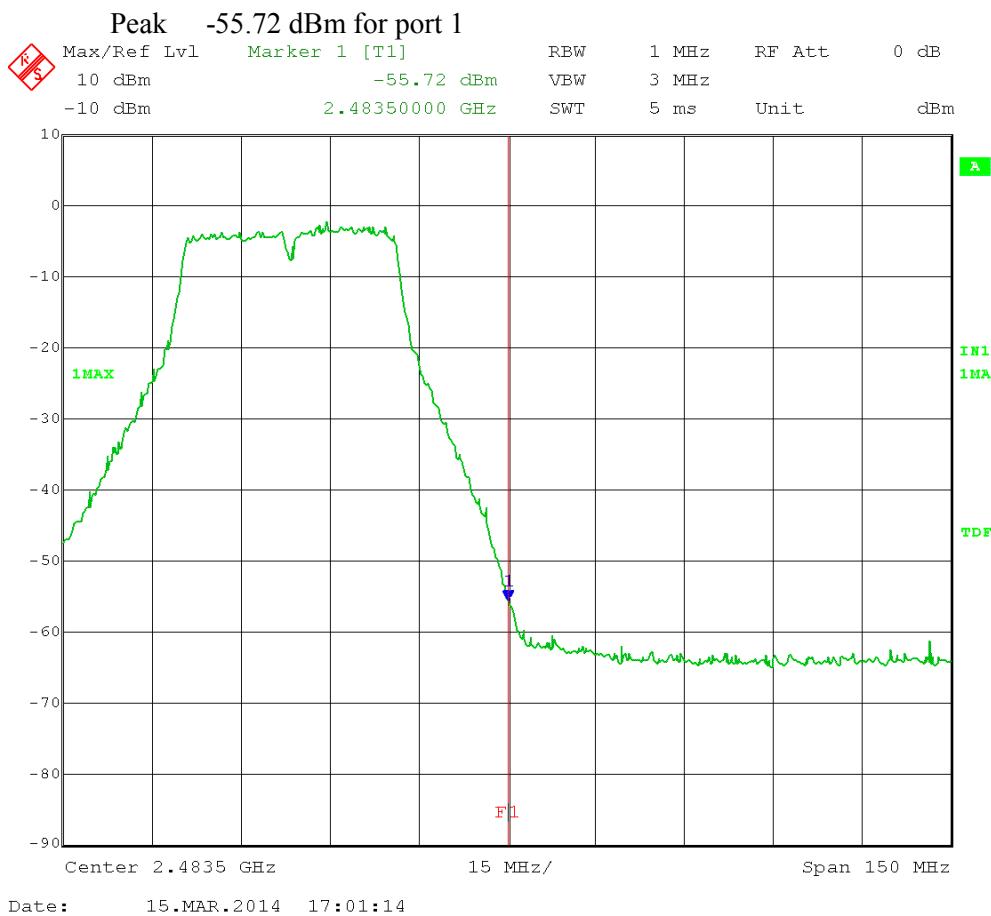
Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.447 GHz
 Test software power setting: 2.5
 40 MHz CH BW Output port: 0
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



Date: 15.MAR.2014 16:57:55

Test Date: 03-15-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Band-Edge Measurements – RF Conducted
 Operator: Craig B

Comment: RBW = 1MHz
 VBW \geq 3MHz
 Detector = Peak
 Trace = Max Hold
High Channel Transmit = 2.447 GHz
 Test software power setting: 2.5
 40 MHz CH BW Output port: 1
 Restricted Band-Edge Frequency = 2.4835 GHz
 Peak Limit = 74 dBuV/m
 Modulation Type: OFDM MCS15



$$-55.75 \text{ dBm} = 0.000002661 \text{ mW}$$

$$-55.72 \text{ dBm} = 0.000002679 \text{ mW}$$

$$\text{Total} = 0.000002661 + 0.000002679 = 0.000005340 \text{ mW} = -52.72 \text{ dBm}$$

$$\begin{aligned} E &= \text{EIRP} - 20\log D + 104.8 \\ &= -52.72 \text{ dBm} + 25 \text{ dBi} - 20\log 3 + 104.8 = 67.54 \text{ dB}\mu\text{V/m} \end{aligned}$$

Margin = 6.46 dB (for Peak limit of 74 dB μ V/m)



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

Appendix B – Measurement Data

B11.0 Duty Cycle of Test Unit

Rule Part: FCC Section 15.35(c)

Test Procedure: ANSI C63.10-2009 Section 7.5

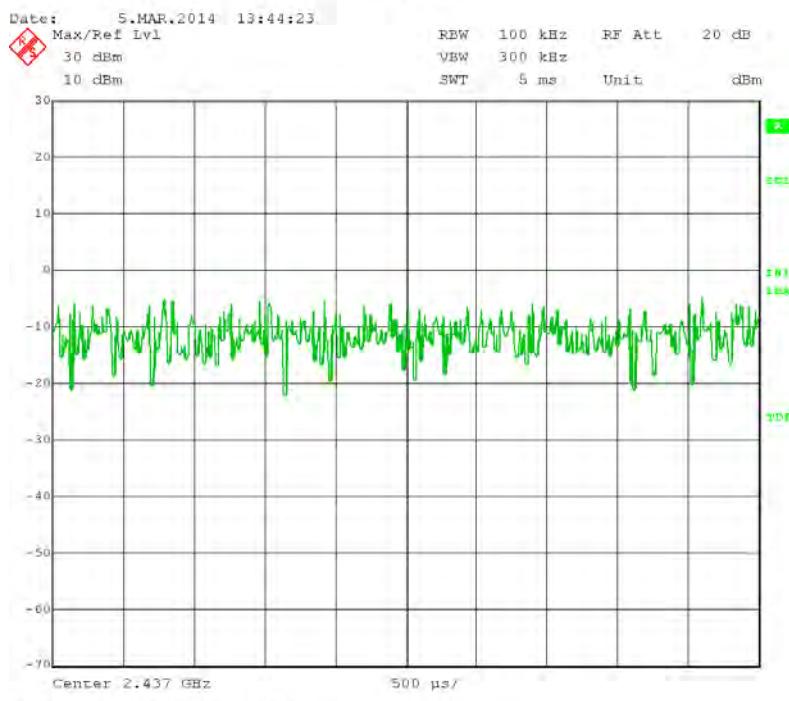
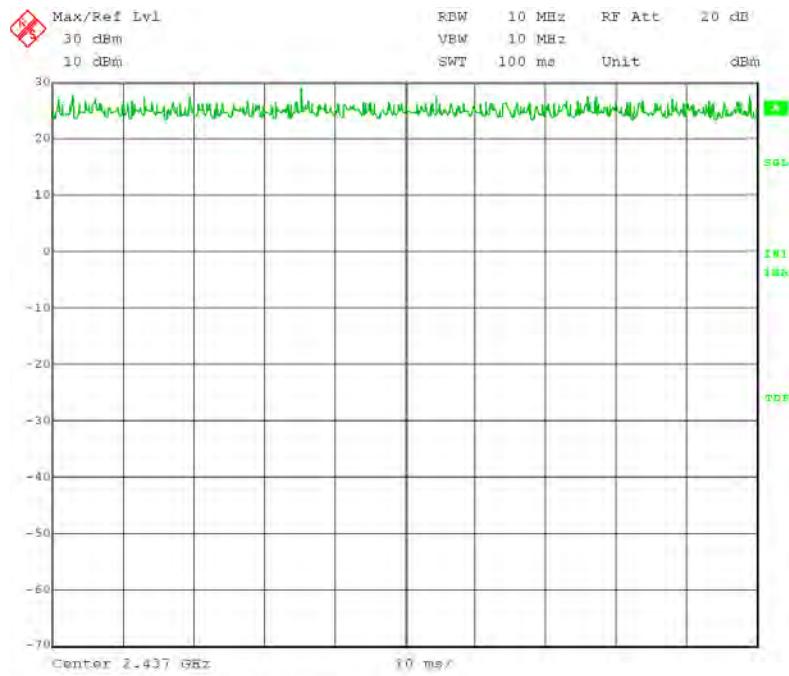
Limits: Informative

Results: EUT is continuously transmitting (duty cycle = 100%).

Sample Equations: None

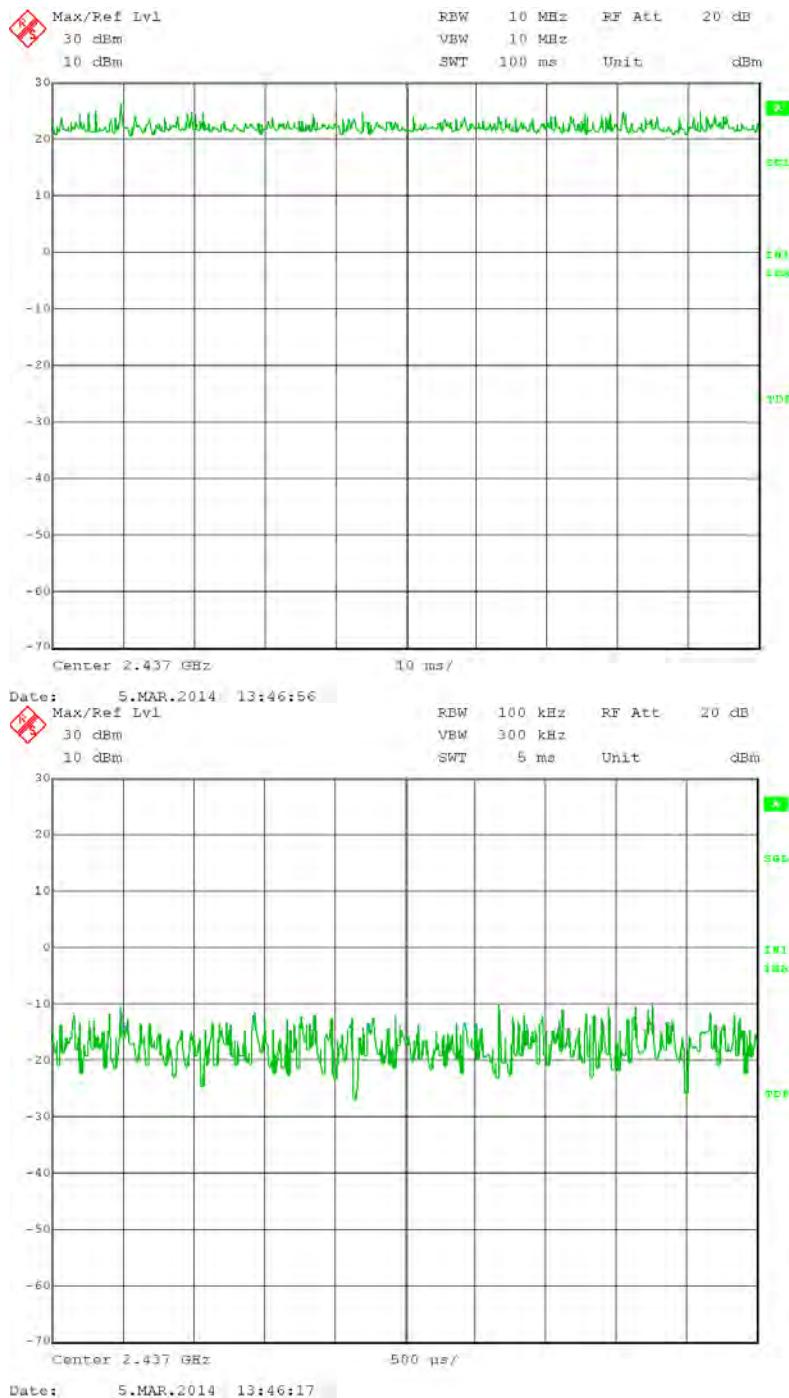
Notes: No duty cycle correction factor was applied to measurements for this device.

Test Date: 03-05-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Duty Cycle during testing
 Operator: Craig B
 20 MHz channel bandwidth; OFDM MCS15
 Comment: Duty cycle = 100%



Date: 5.MAR.2014 13:45:00

Test Date: 03-05-2014
 Company: Cambium Networks
 EUT: EPMP 2.4 GHz STA MAC: 000456C69680
 Test: Duty Cycle during testing
 Operator: Craig B
 40 MHz channel bandwidth; OFDM MCS15
 Comment: Duty cycle = 100%





166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

Appendix B – Measurement Data

B12.0 AC Line Conducted Emissions

Rule Part: FCC Part 15.207

Test Procedure: ANSI C63.10-2009
Section 6.2

Limit: FCC Part 15.207(a)

Results: Compliant

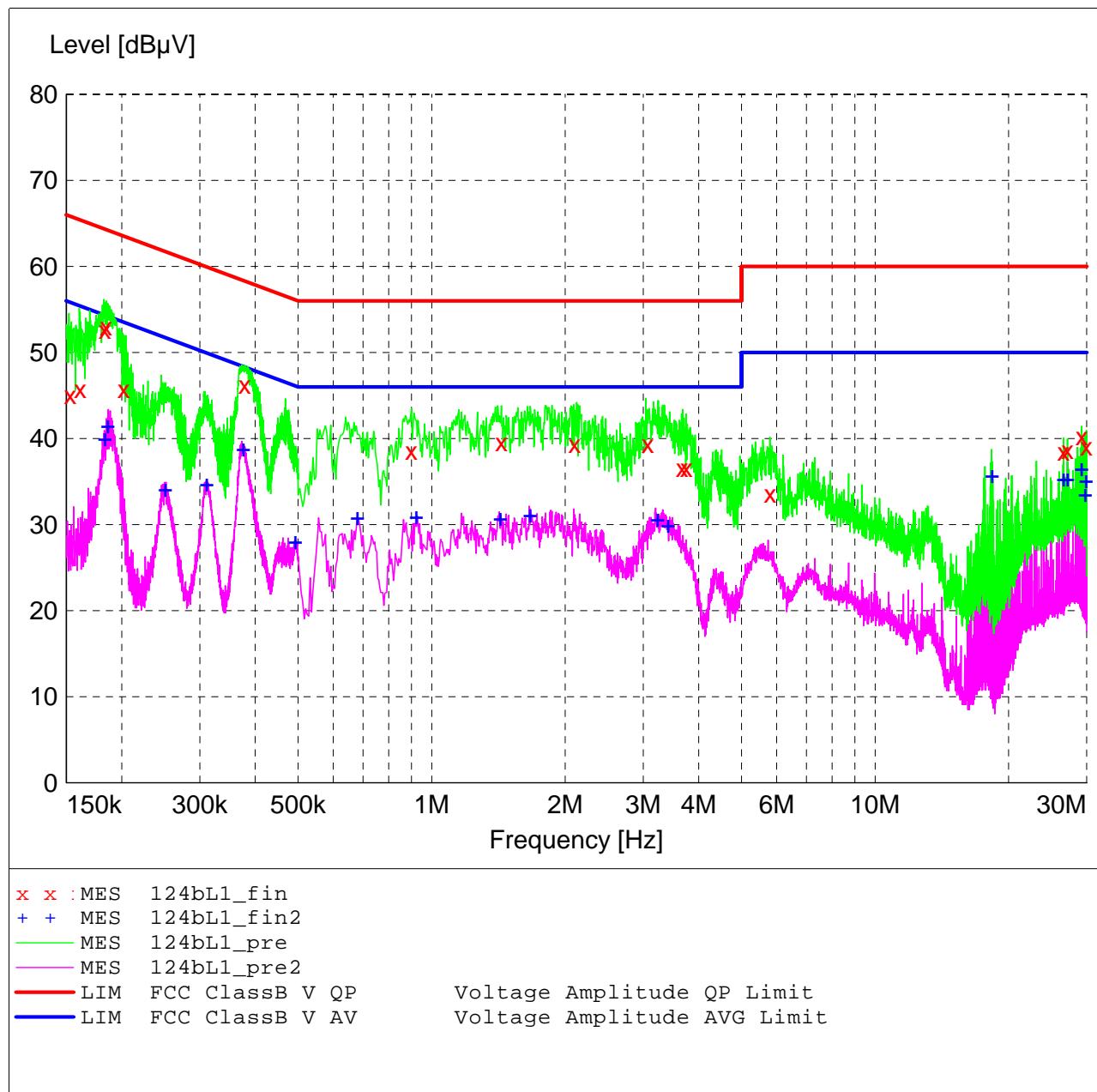
Notes: This was an AC Conducted emissions measurement.
The EUT was powered from a representative AC Adapter with an input of 120 VAC 60 Hz.

Voltage Mains Test

EUT: EPMP 2.4 GHz STA
 Manufacturer: Cambium Networks
 Operating Condition: 72 deg. F, 21% R.H.
 Test Site: DLS O.F. Screen Room
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 1; continuous Tx
 Date: 01-24-2014

SCAN TABLE: "Line Cond SR Final"

Short Description:			Line Conducted Emissions			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	3.0 s	9 kHz	LISN DLS#128 CISPR AV



MEASUREMENT RESULT: "124bL1_fin"

1/24/2014 3:59PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector
0.153200	45.00	13.7	66	20.8	QP
0.161400	45.70	13.5	65	19.7	QP
0.183400	52.60	13.0	64	11.7	QP
0.184400	53.00	13.0	64	11.3	QP
0.202200	45.70	12.8	64	17.8	QP
0.378800	46.20	11.6	58	12.1	QP
0.900000	38.60	10.8	56	17.4	QP
1.436000	39.50	10.6	56	16.5	QP
2.100000	39.30	10.6	56	16.7	QP
3.072000	39.30	10.7	56	16.7	QP
3.672000	36.60	10.7	56	19.4	QP
3.752000	36.50	10.7	56	19.5	QP
5.801000	33.60	10.7	60	26.4	QP
26.609000	38.40	11.6	60	21.6	QP
27.158000	38.70	11.6	60	21.3	QP
29.237000	40.20	11.6	60	19.8	QP
29.966000	39.10	11.6	60	20.9	QP

MEASUREMENT RESULT: "124bL1_fin2"

1/24/2014 3:59PM

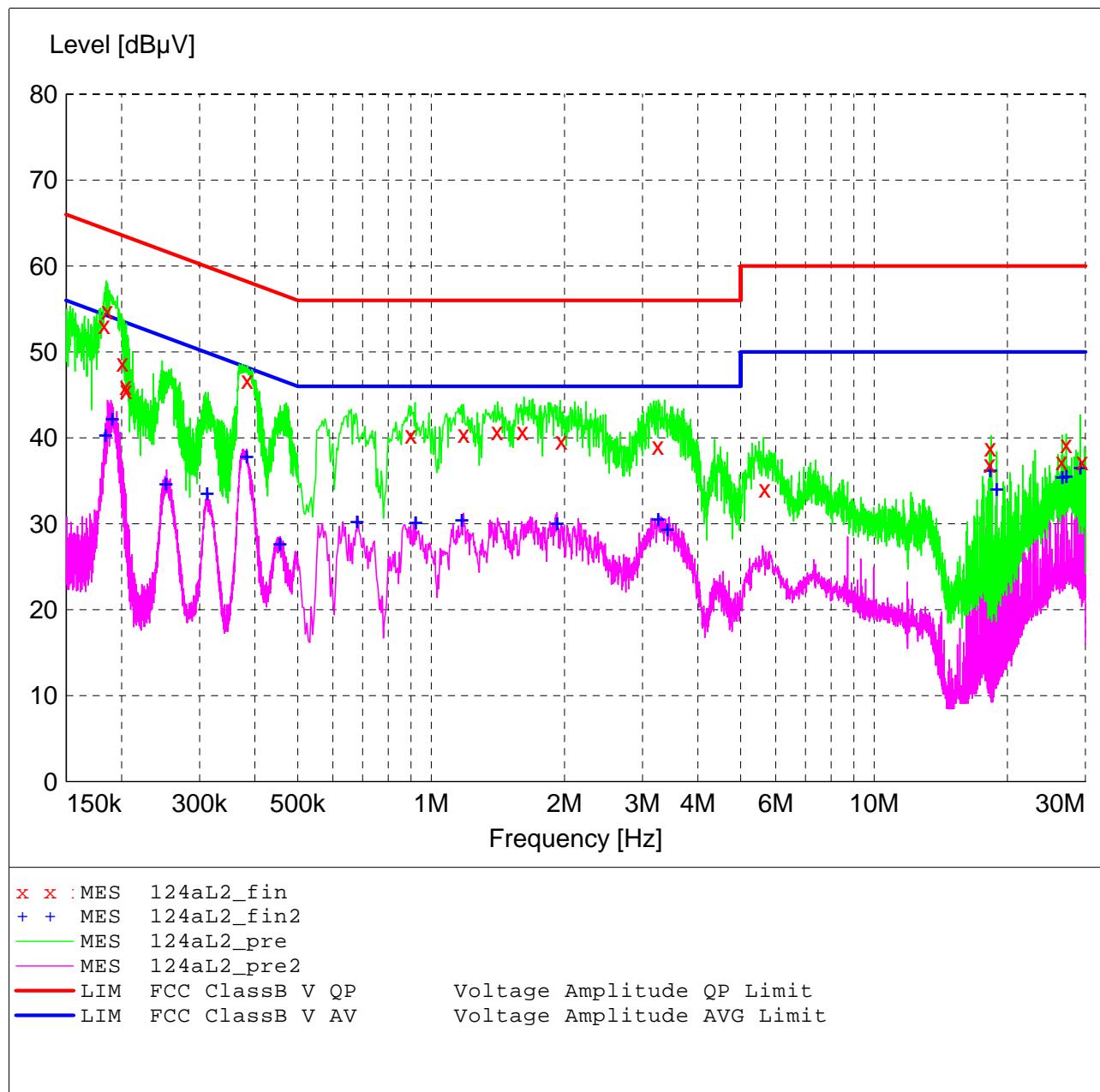
Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector
0.183200	40.00	13.0	54	14.3	CAV
0.186200	41.50	13.0	54	12.7	CAV
0.250800	34.20	12.2	52	17.5	CAV
0.311000	34.80	11.9	50	15.1	CAV
0.376400	38.90	11.6	48	9.5	CAV
0.493200	28.10	11.2	46	18.0	CAV
0.680000	30.90	10.9	46	15.1	CAV
0.924000	31.00	10.8	46	15.0	CAV
1.428000	30.80	10.6	46	15.2	CAV
1.668000	31.20	10.7	46	14.8	CAV
3.232000	30.70	10.7	46	15.3	CAV
3.420000	30.00	10.7	46	16.0	CAV
18.365000	35.80	11.3	50	14.2	CAV
26.609000	35.40	11.6	50	14.6	CAV
27.158000	35.40	11.6	50	14.6	CAV
29.237000	36.50	11.6	50	13.5	CAV
29.786000	33.60	11.6	50	16.4	CAV
29.966000	35.20	11.6	50	14.8	CAV

Voltage Mains Test

EUT: EPMP 2.4 GHz STA
 Manufacturer: Cambium Networks
 Operating Condition: 72 deg. F, 21% R.H.
 Test Site: DLS O.F. Screen Room
 Operator: Craig B
 Test Specification: 120 V 60 Hz
 Comment: Line 2; continuous Tx
 Date: 01-24-2014

SCAN TABLE: "Line Cond SR Final"

Short Description:			Line Conducted Emissions			
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	4.0 kHz	QuasiPeak	3.0 s	9 kHz	LISN DLS#128 CISPR AV



MEASUREMENT RESULT: "124aL2_fin"

1/24/2014 3:52PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector
0.182600	53.10	13.0	64	11.3	QP
0.185600	54.80	13.0	64	9.4	QP
0.201000	48.70	12.8	64	14.9	QP
0.204200	46.00	12.8	63	17.4	QP
0.204800	45.50	12.8	63	17.9	QP
0.384000	46.70	11.6	58	11.5	QP
0.900000	40.30	10.8	56	15.7	QP
1.184000	40.40	10.7	56	15.6	QP
1.408000	40.70	10.6	56	15.3	QP
1.608000	40.70	10.7	56	15.3	QP
1.968000	39.70	10.6	56	16.3	QP
3.248000	39.10	10.7	56	16.9	QP
5.657000	34.10	10.7	60	25.9	QP
18.239000	37.00	11.3	60	23.0	QP
18.302000	38.80	11.3	60	21.2	QP
26.546000	37.30	11.6	60	22.7	QP
27.158000	39.20	11.6	60	20.8	QP
29.480000	37.20	11.6	60	22.8	QP

MEASUREMENT RESULT: "124aL2_fin2"

1/24/2014 3:52PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector
0.184200	40.50	13.0	54	13.8	CAV
0.190600	42.30	12.9	54	11.7	CAV
0.251800	34.80	12.2	52	16.9	CAV
0.311800	33.70	11.8	50	16.2	CAV
0.383400	38.00	11.6	48	10.2	CAV
0.455800	27.80	11.3	47	19.0	CAV
0.680000	30.40	10.9	46	15.6	CAV
0.924000	30.30	10.8	46	15.7	CAV
1.172000	30.60	10.7	46	15.4	CAV
1.924000	30.20	10.6	46	15.8	CAV
3.260000	30.70	10.7	46	15.3	CAV
3.416000	29.50	10.7	46	16.5	CAV
18.302000	36.40	11.3	50	13.6	CAV
18.914000	34.20	11.3	50	15.8	CAV
26.609000	35.60	11.6	50	14.4	CAV
27.158000	35.70	11.6	50	14.3	CAV
29.237000	36.70	11.6	50	13.3	CAV



166 South Carter, Genoa City, WI 53128

Company: Cambium Networks
Model Tested: C024900P021A & C024900P031A
Report Number: 19738
DLS Project: 6334

END OF REPORT

Revision #	Date	Comments	By
1.0	03-18-2014	Preliminary Release	JS