OUTPUT POWER - SISO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method found in KDB 558074 DTS D01 Measurement Section 9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.

OUTPUT POWER - SISO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

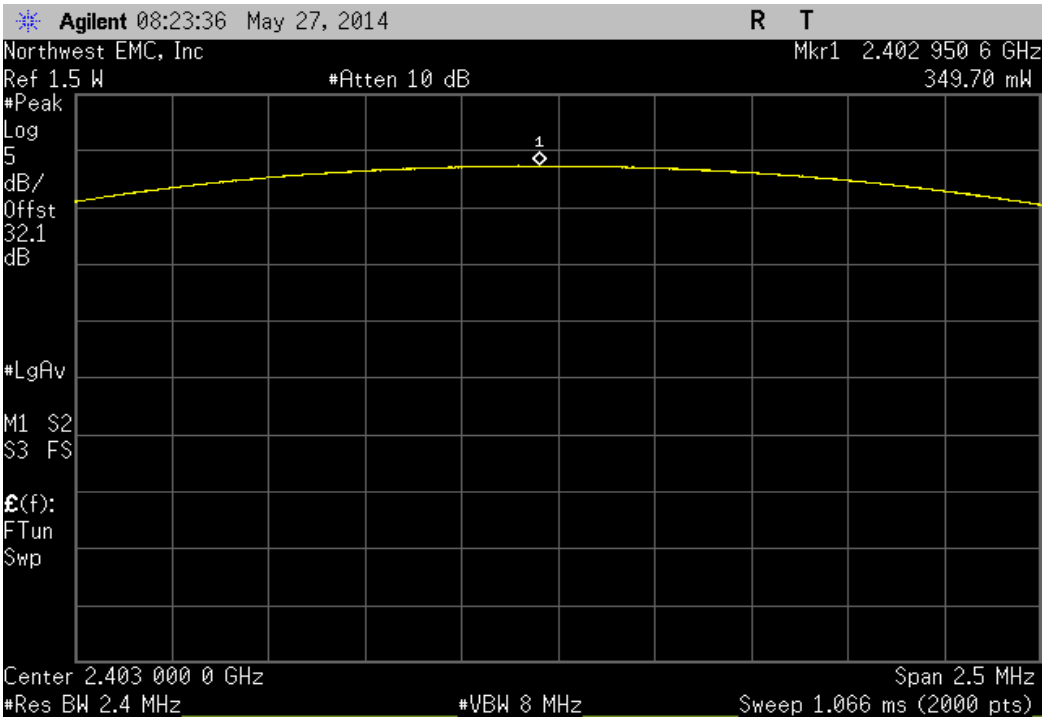
	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2403 MHz	349.704 mW	< 1 W	Pass
Mid Channel 2435 MHz	313.184 mW	< 1 W	Pass
High Channel 2470 MHz	242.103 mW	< 1 W	Pass
Modulation Type, QPSK.			
Low Channel 2403 MHz	406.724 mW	< 1 W	Pass
Mid Channel 2435 MHz	315.573 mW	< 1 W	Pass
High Channel 2470 MHz	263.633 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2403 MHz	610.801 mW	< 1 W	Pass
Mid Channel 2435 MHz	537.032 mW	< 1 W	Pass
High Channel 2470 MHz	465.908 mW	< 1 W	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2403 MHz	514.28 mW	< 1 W	Pass
Mid Channel 2435 MHz	335.12 mW	< 1 W	Pass
High Channel 2470 MHz	310.957 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2403 MHz	484.284 mW	< 1 W	Pass
Mid Channel 2435 MHz	373.336 mW	< 1 W	Pass
High Channel 2470 MHz	332.277 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	608.415 mW	< 1 W	Pass
Mid Channel 2435 MHz	599.791 mW	< 1 W	Pass
High Channel 2470 MHz	585.059 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	561.048 mW	< 1 W	Pass
Mid Channel 2435 MHz	589.929 mW	< 1 W	Pass
High Channel 2470 MHz	610.38 mW	< 1 W	Pass
5MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2406 MHz	393.188 mW	< 1 W	Pass
Mid Channel 2436 MHz	317.03 mW	< 1 W	Pass
High Channel 2466 MHz	298.813 mW	< 1 W	Pass
Modulation Type, QPSK.			
Low Channel 2406 MHz	435.211 mW	< 1 W	Pass
Mid Channel 2436 MHz	312.176 mW	< 1 W	Pass
High Channel 2466 MHz	280.092 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2406 MHz	502.805 mW	< 1 W	Pass
Mid Channel 2436 MHz	382.208 mW	< 1 W	Pass
High Channel 2466 MHz	324.638 mW	< 1 W	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2406 MHz	528.689 mW	< 1 W	Pass
Mid Channel 2436 MHz	454.779 mW	< 1 W	Pass
High Channel 2466 MHz	353.834 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2406 MHz	543.876 mW	< 1 W	Pass
Mid Channel 2436 MHz	419.083 mW	< 1 W	Pass
High Channel 2466 MHz	353.671 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	536.537 mW	< 1 W	Pass
Mid Channel 2436 MHz	581.567 mW	< 1 W	Pass
High Channel 2466 MHz	315.937 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	510.975 mW	< 1 W	Pass
Mid Channel 2436 MHz	549.414 mW	< 1 W	Pass
High Channel 2466 MHz	271.769 mW	< 1 W	Pass
10MHz Bandwidth			
Modulation Type, DBPSK.			
Low Channel 2409 MHz	586.543 mW	< 1 W	Pass
Mid Channel 2439 MHz	453.837 mW	< 1 W	Pass
High Channel 2464 MHz	408.79 mW	< 1 W	Pass
Modulation Type, QPSK.			
Low Channel 2409 MHz	564.417 mW	< 1 W	Pass
Mid Channel 2439 MHz	434.31 mW	< 1 W	Pass
High Channel 2464 MHz	378.094 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2409 MHz	281.354 mW	< 1 W	Pass
Mid Channel 2439 MHz	220.963 mW	< 1 W	Pass
High Channel 2464 MHz	189.54 mW	< 1 W	Pass

Modulation Type, 16-QAM, Coding Rate, 3/4.			
Low Channel 2409 MHz	290.155 mW	< 1 W	Pass
Mid Channel 2439 MHz	218.396 mW	< 1 W	Pass
High Channel 2464 MHz	192.608 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.			
Low Channel 2409 MHz	278.873 mW	< 1 W	Pass
Mid Channel 2439 MHz	227.555 mW	< 1 W	Pass
High Channel 2464 MHz	195.622 mW	< 1 W	Pass
Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	271.702 mW	< 1 W	Pass
Mid Channel 2439 MHz	221.988 mW	< 1 W	Pass
High Channel 2464 MHz	196.009 mW	< 1 W	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	283.192 mW	< 1 W	Pass
Mid Channel 2439 MHz	217.929 mW	< 1 W	Pass
High Channel 2464 MHz	196.376 mW	< 1 W	Pass

OUTPUT POWER - SISO

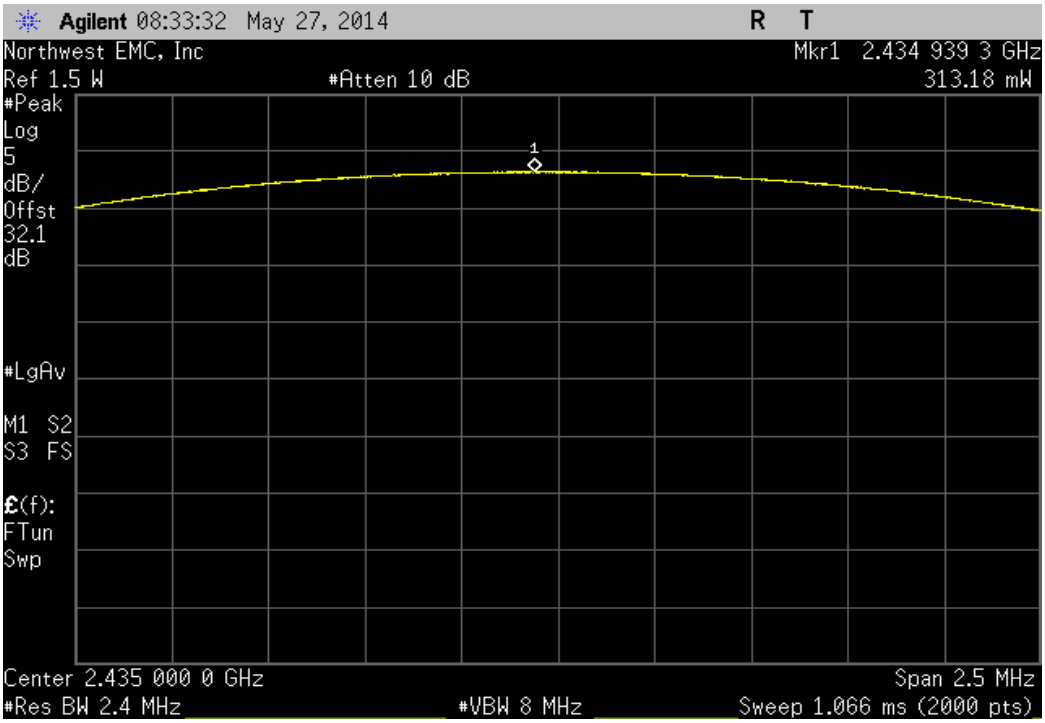
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2403 MHz

				Value	Limit	Result
				349.704 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2435 MHz

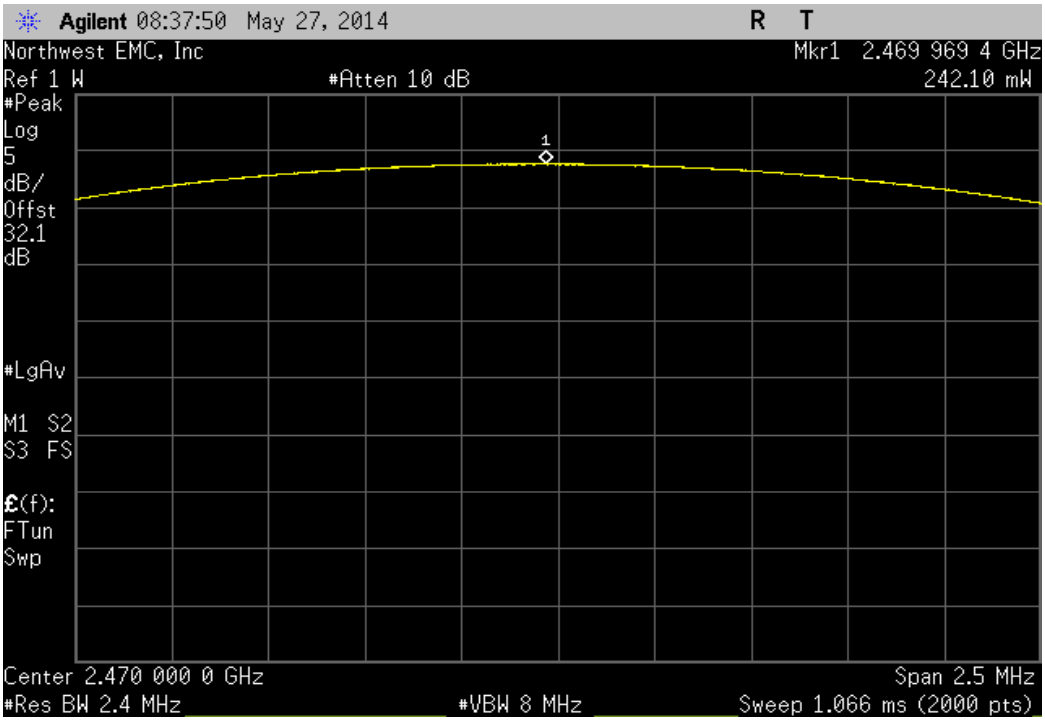
				Value	Limit	Result
				313.184 mW	< 1 W	Pass



OUTPUT POWER - SISO

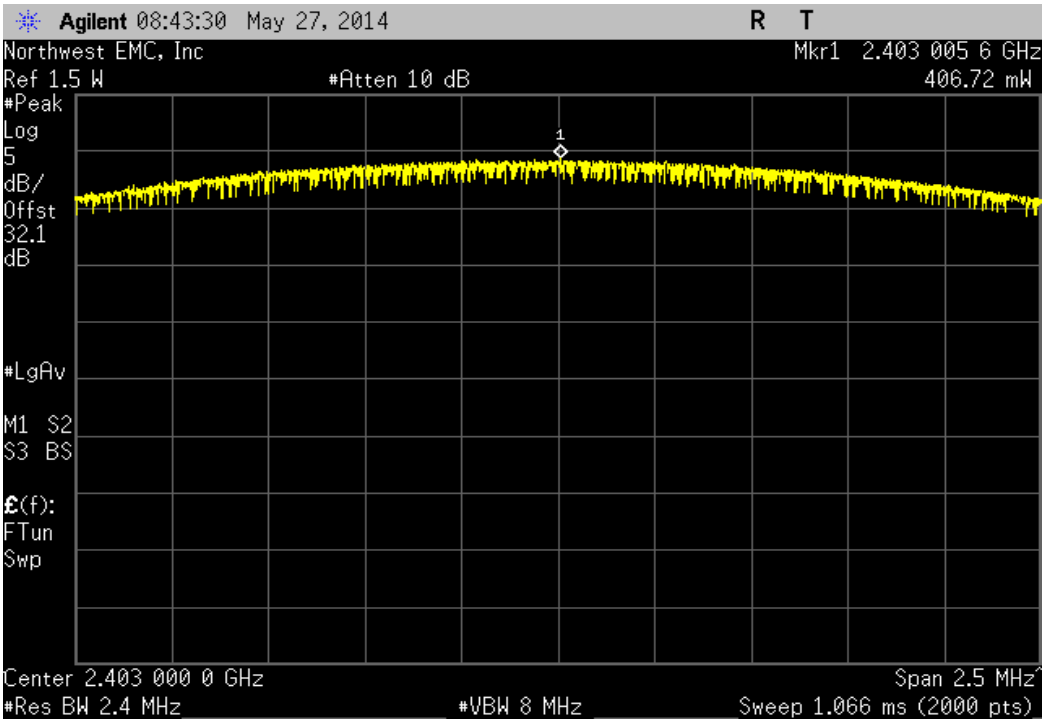
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2470 MHz

				Value	Limit	Result
				242.103 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2403 MHz

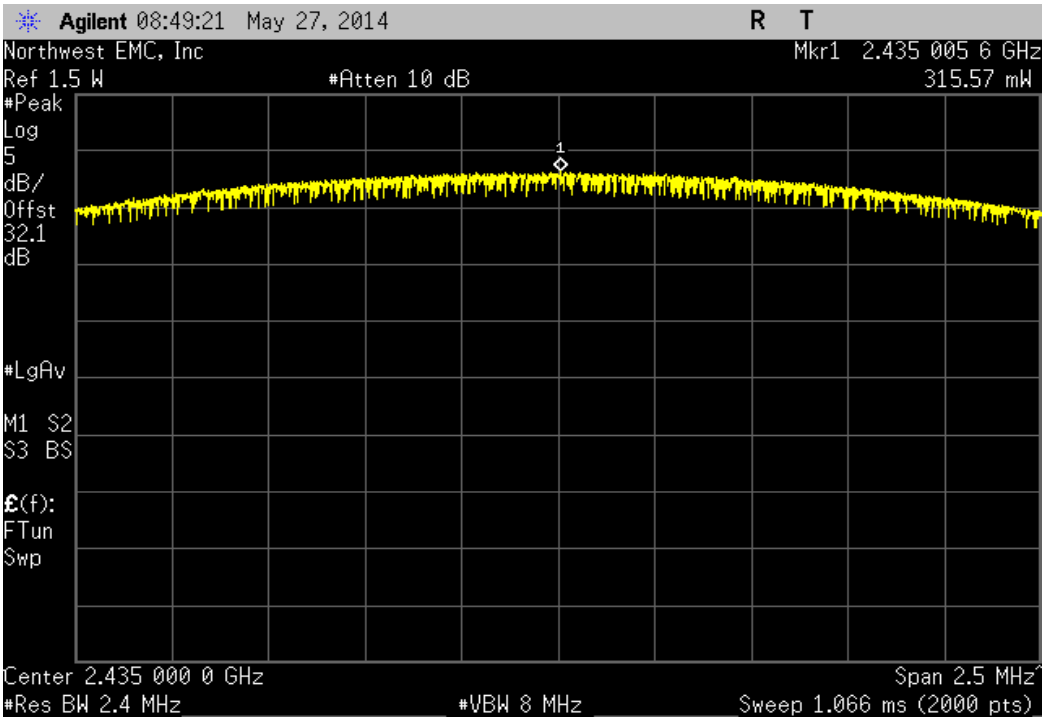
				Value	Limit	Result
				406.724 mW	< 1 W	Pass



OUTPUT POWER - SISO

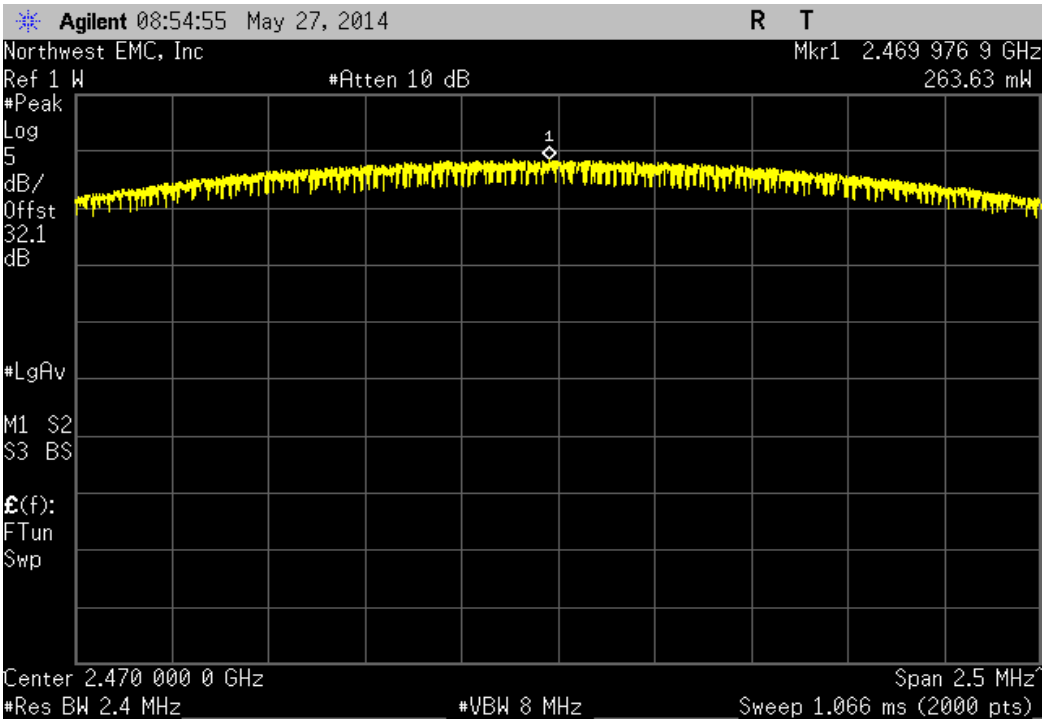
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2435 MHz

				Value	Limit	Result
				315.573 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., High Channel 2470 MHz

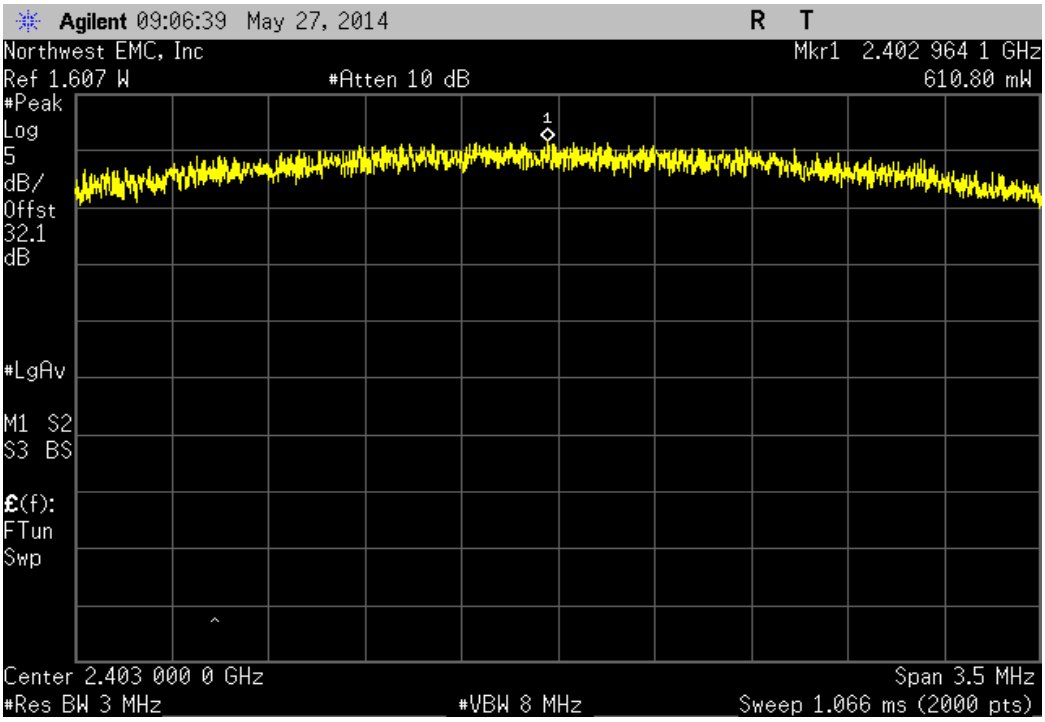
				Value	Limit	Result
				263.633 mW	< 1 W	Pass



OUTPUT POWER - SISO

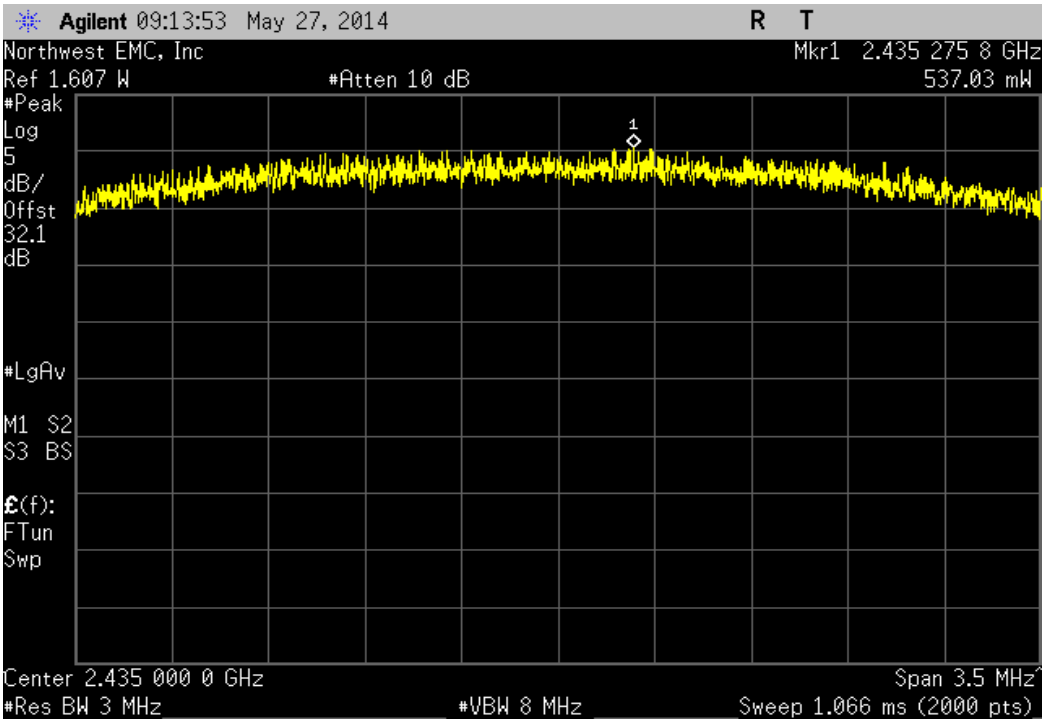
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz

				Value	Limit	Result
				610.801 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz

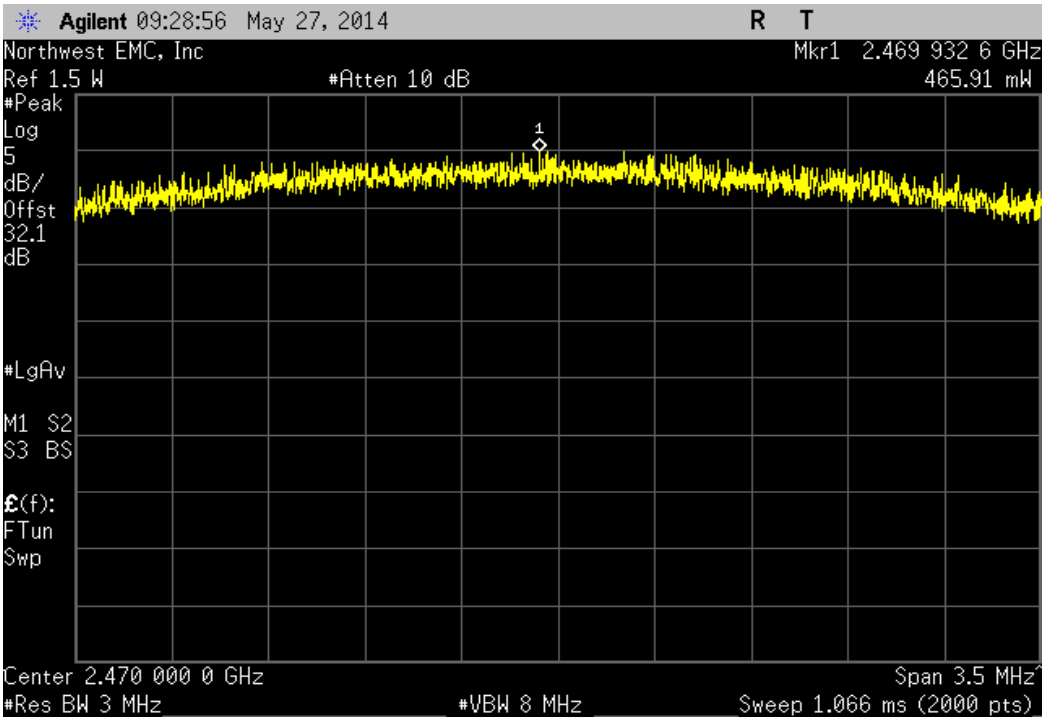
				Value	Limit	Result
				537.032 mW	< 1 W	Pass



OUTPUT POWER - SISO

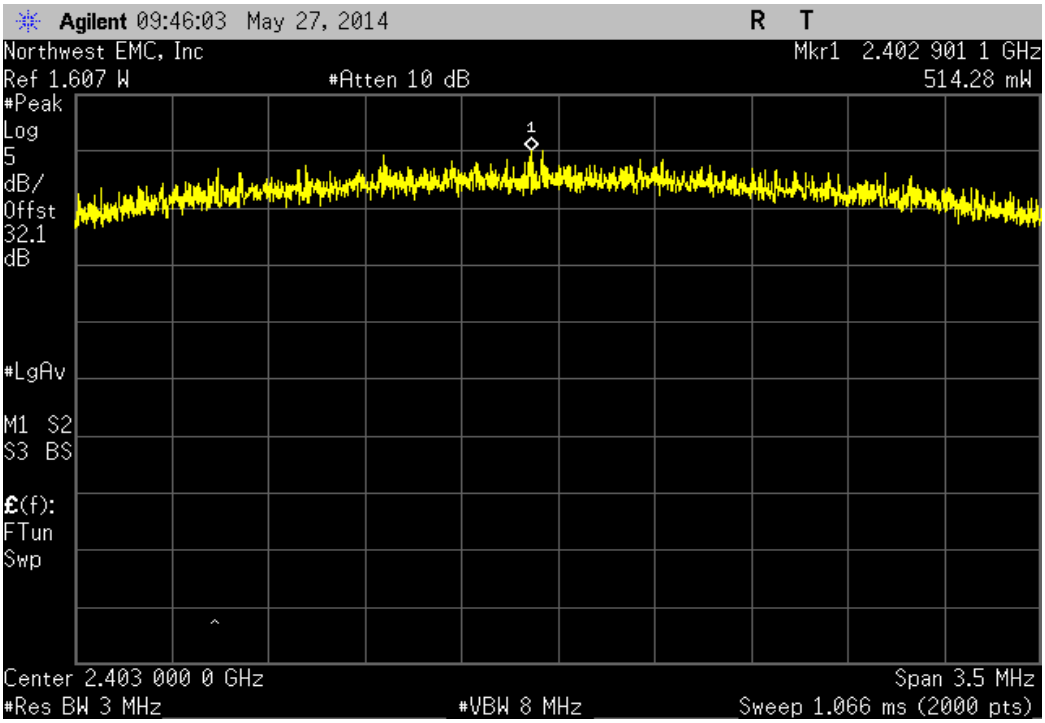
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

				Value	Limit	Result
				465.908 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2403 MHz

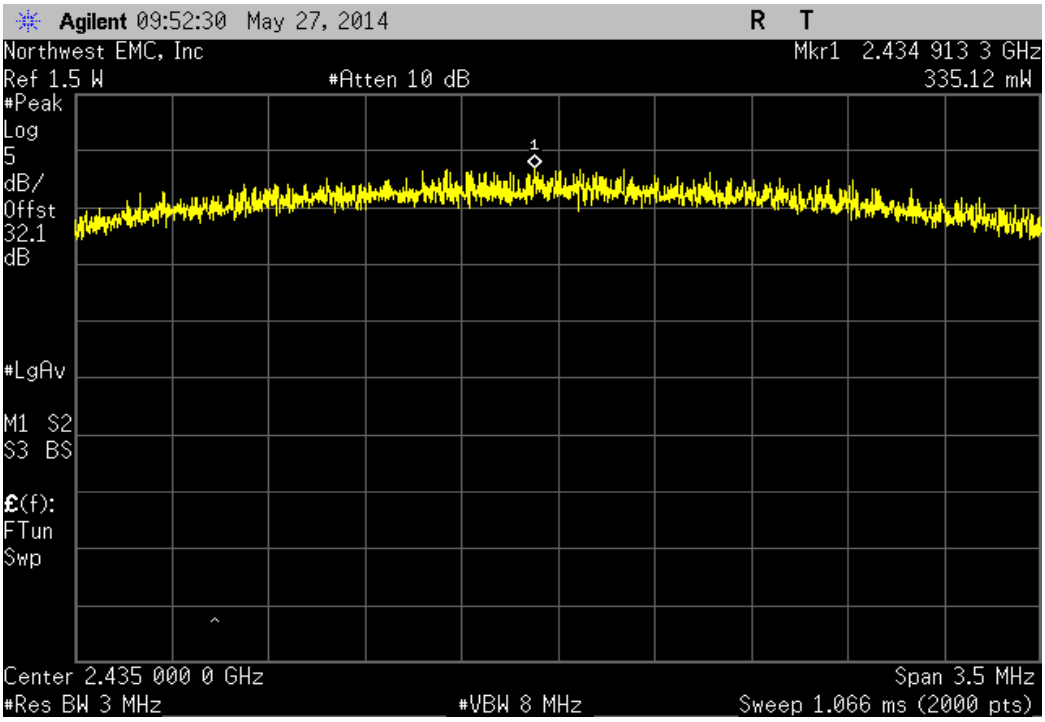
				Value	Limit	Result
				514.28 mW	< 1 W	Pass



OUTPUT POWER - SISO

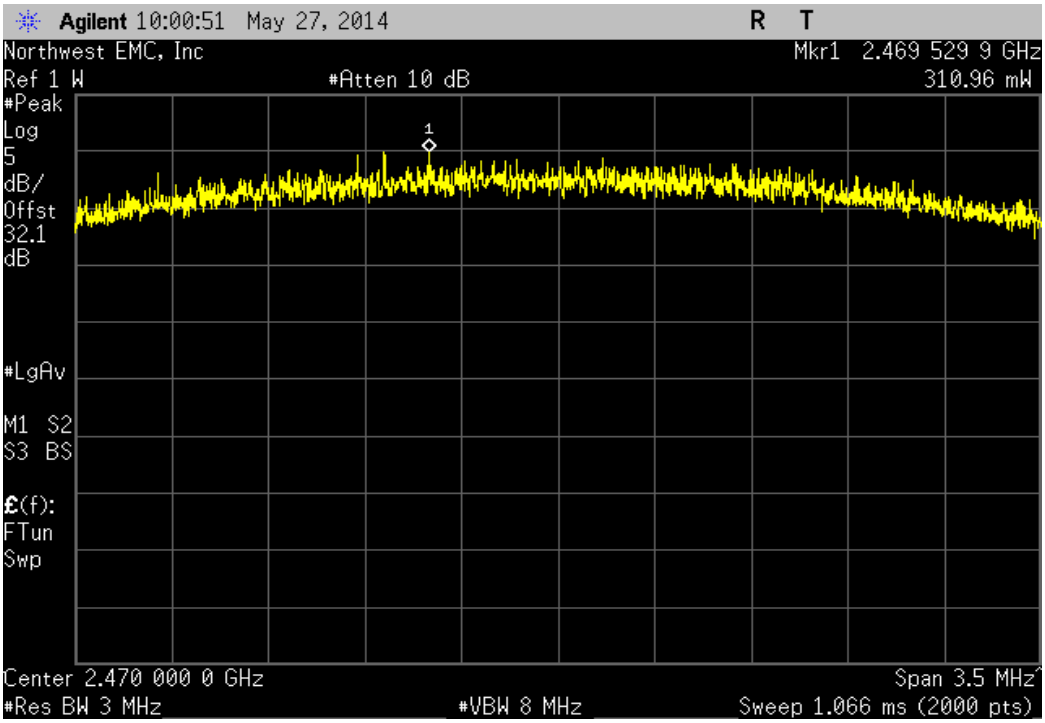
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz

				Value	Limit	Result
				335.12 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2470 MHz

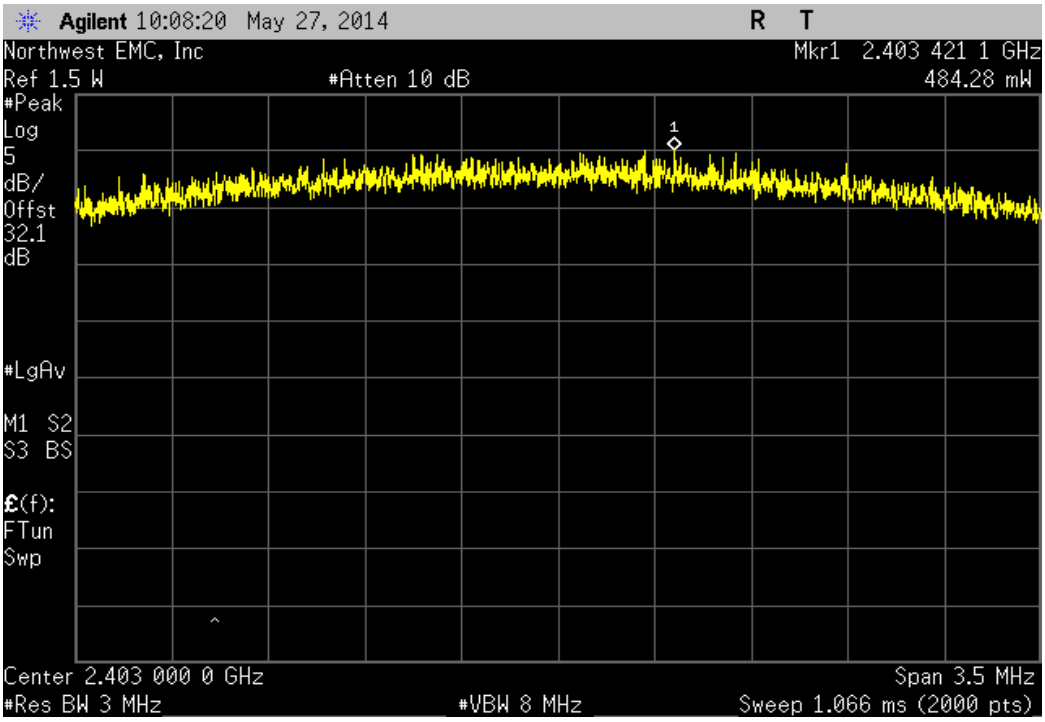
				Value	Limit	Result
				310.957 mW	< 1 W	Pass



OUTPUT POWER - SISO

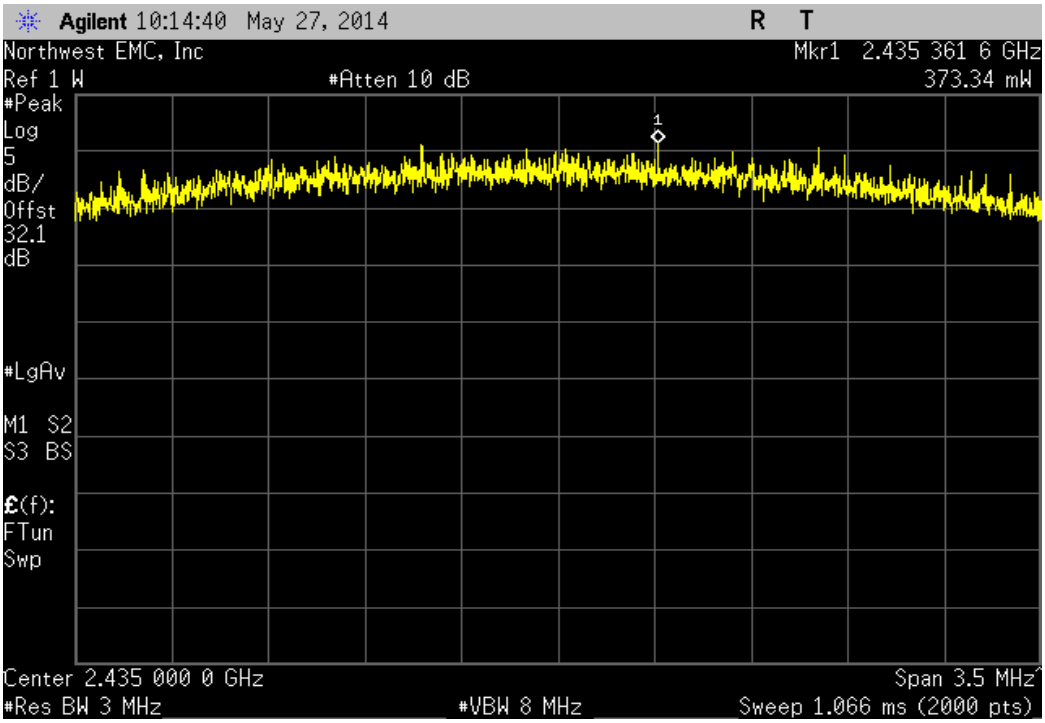
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2403 MHz

				Value	Limit	Result
				484.284 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz

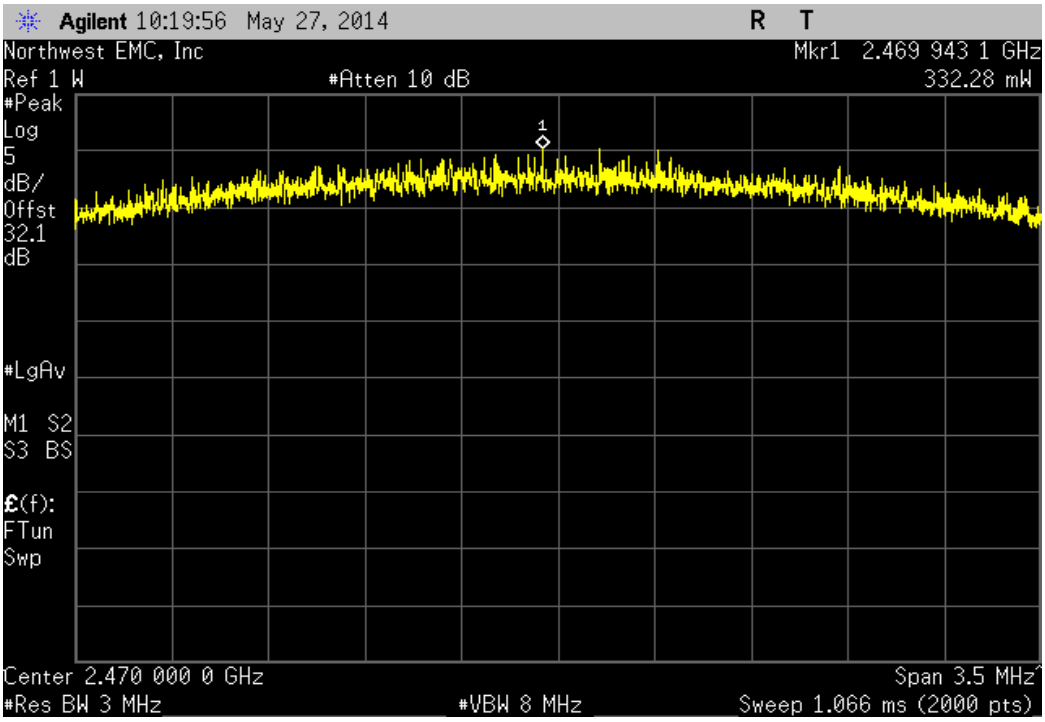
				Value	Limit	Result
				373.336 mW	< 1 W	Pass



OUTPUT POWER - SISO

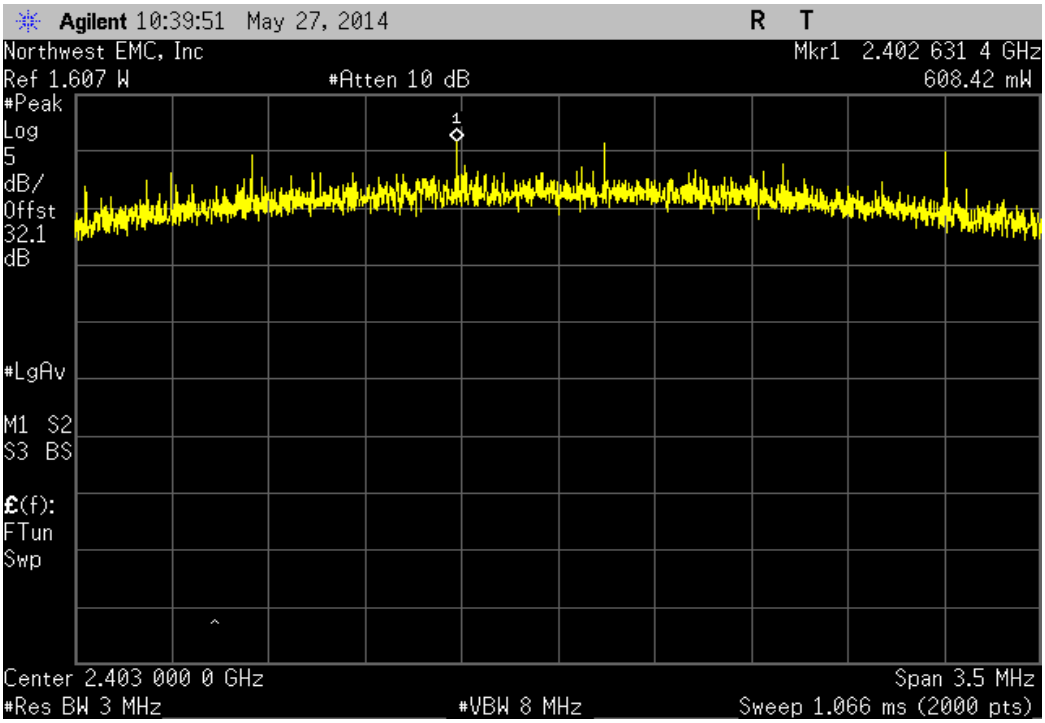
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2470 MHz

				Value	Limit	Result
				332.277 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2403 MHz

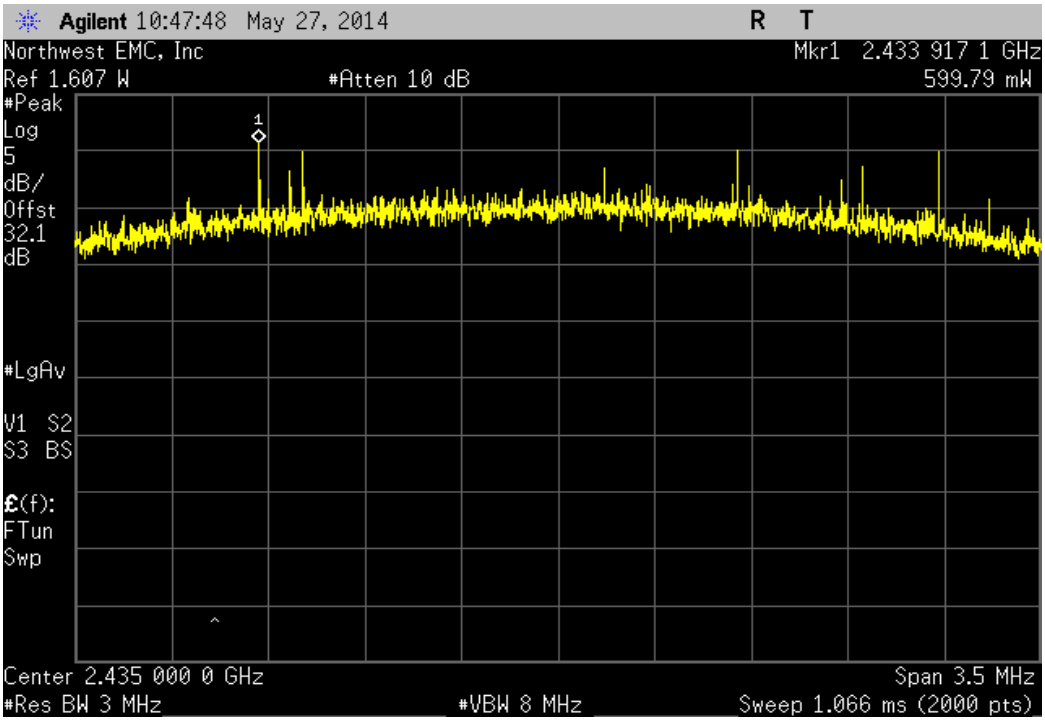
				Value	Limit	Result
				608.415 mW	< 1 W	Pass



OUTPUT POWER - SISO

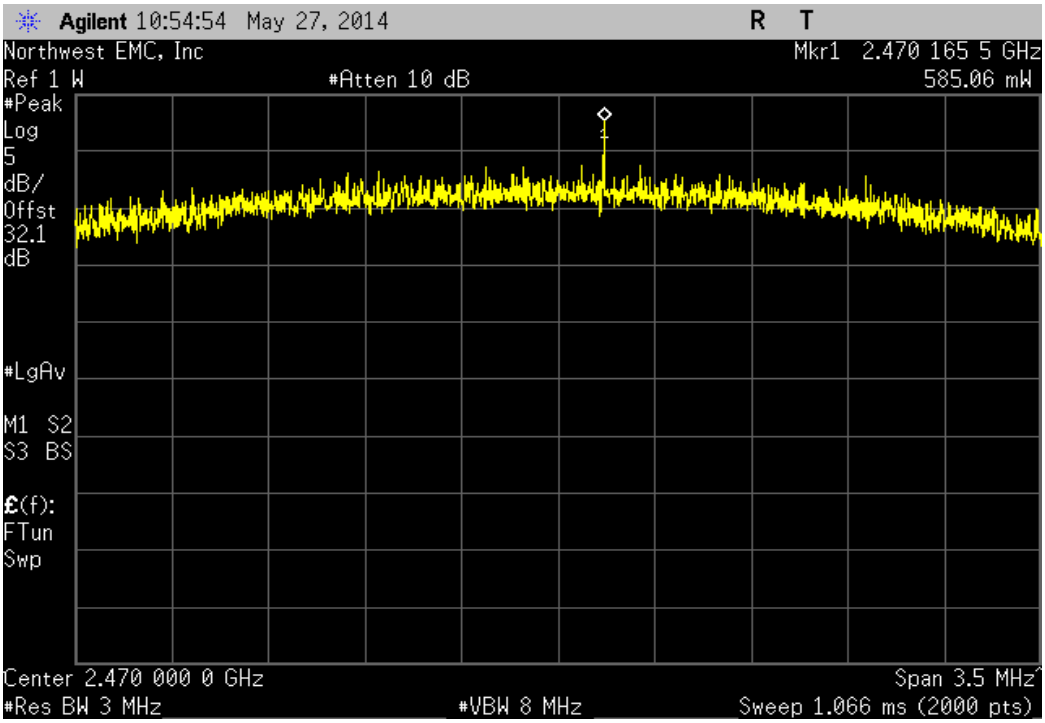
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2435 MHz

				Value	Limit	Result
				599.791 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2470 MHz

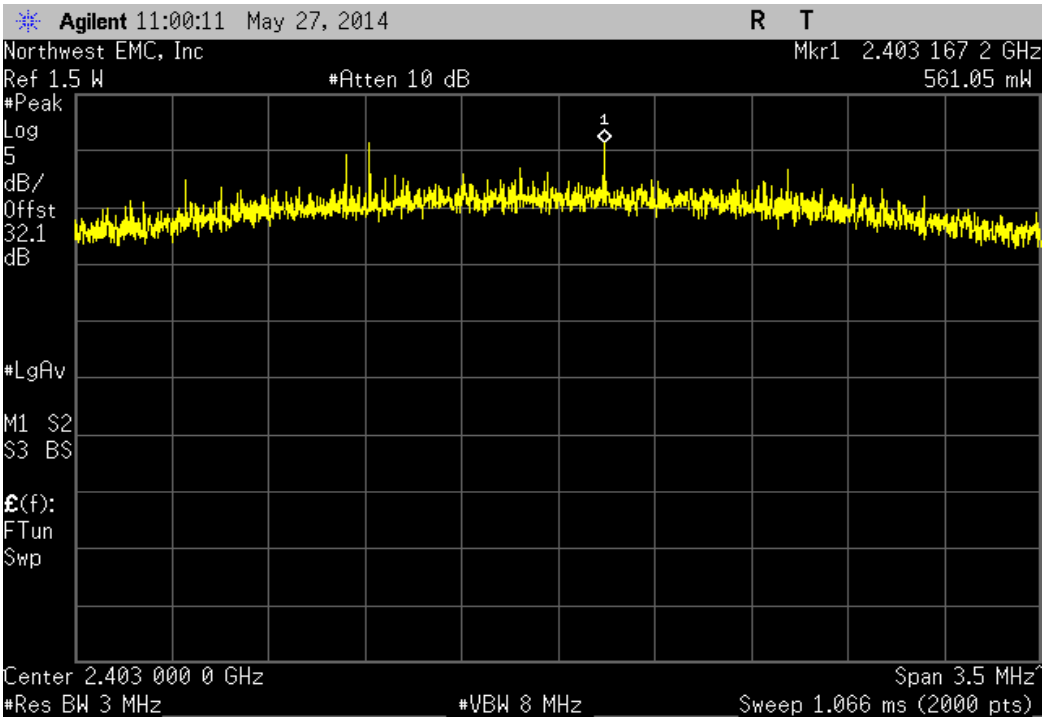
				Value	Limit	Result
				585.059 mW	< 1 W	Pass



OUTPUT POWER - SISO

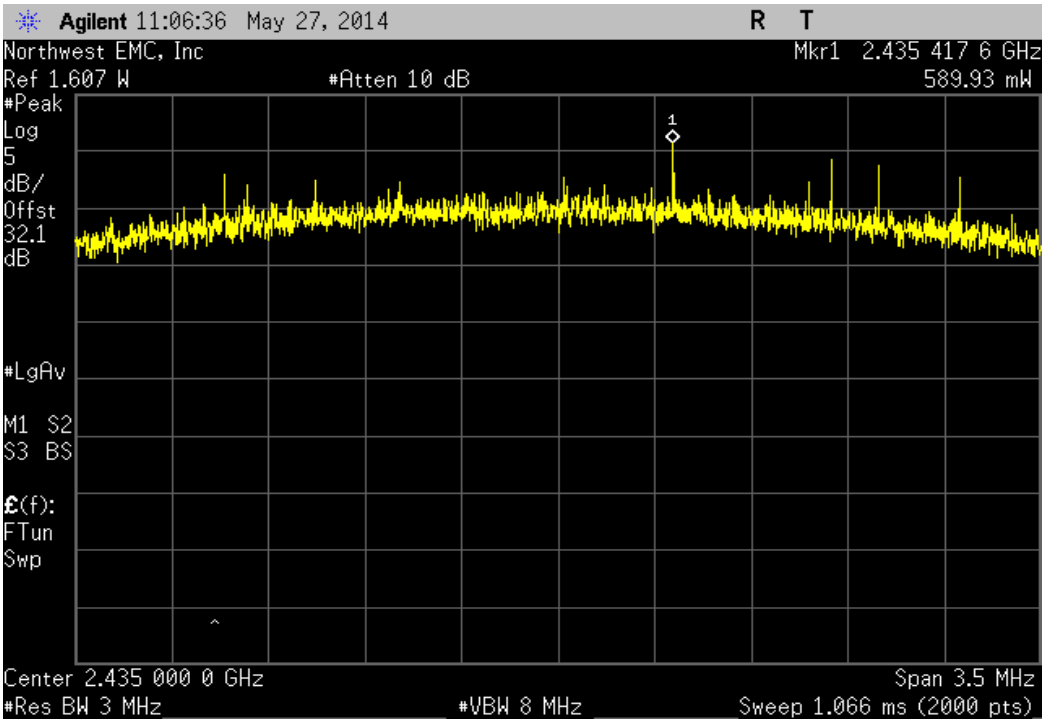
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

				Value	Limit	Result
				561.048 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

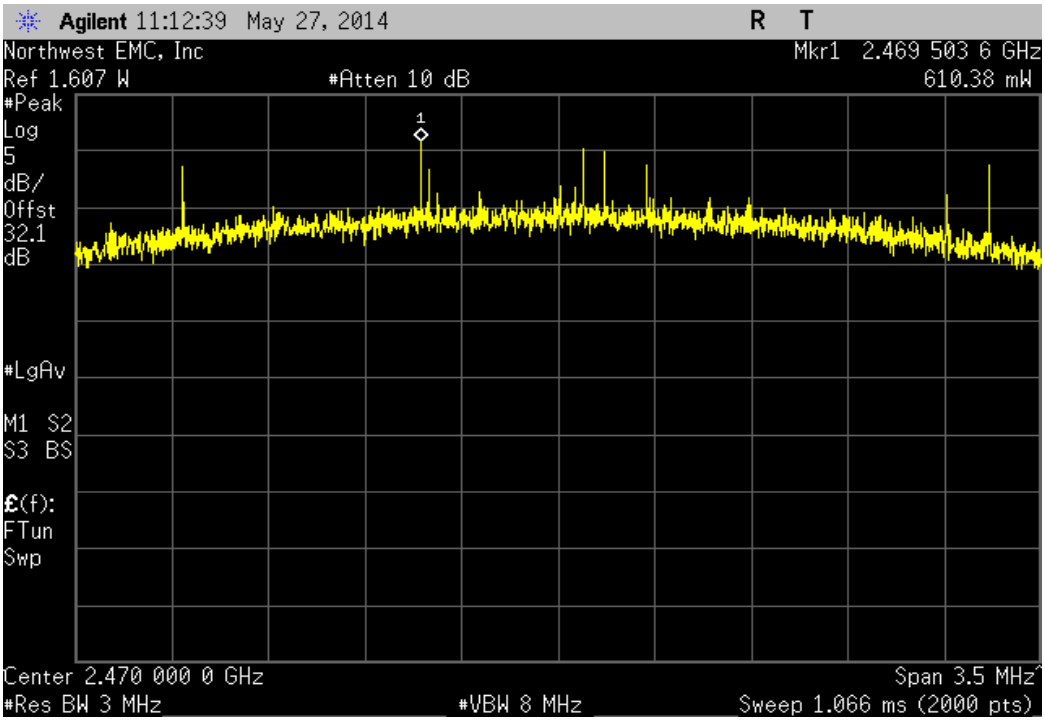
				Value	Limit	Result
				589.929 mW	< 1 W	Pass



OUTPUT POWER - SISO

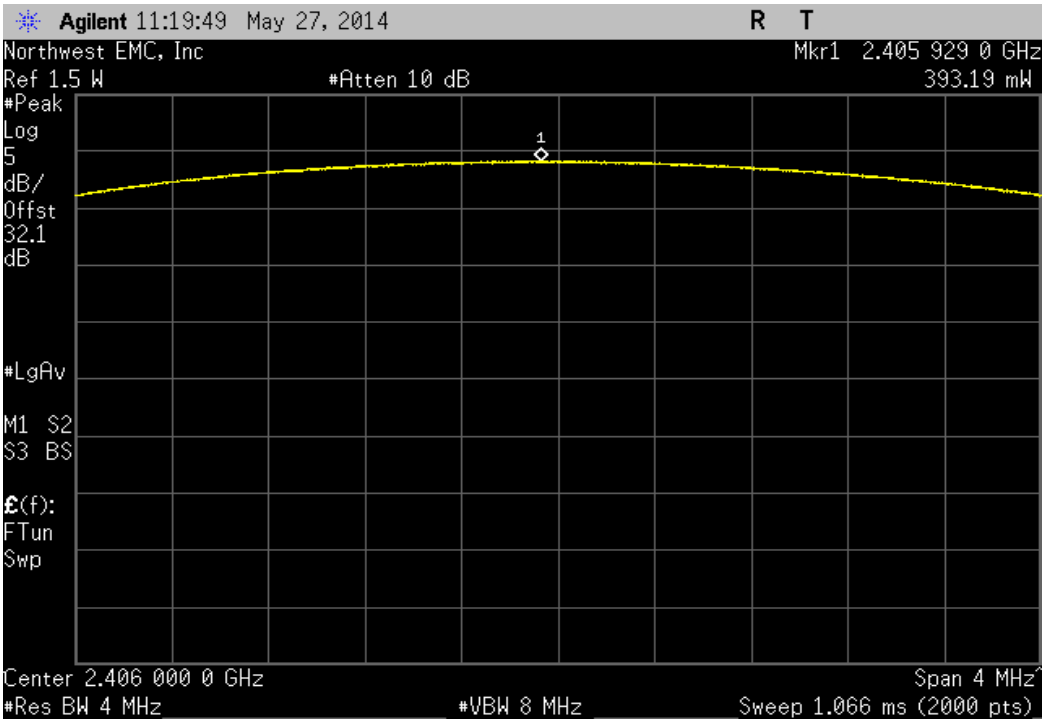
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

				Value	Limit	Result
				610.38 mW	< 1 W	Pass



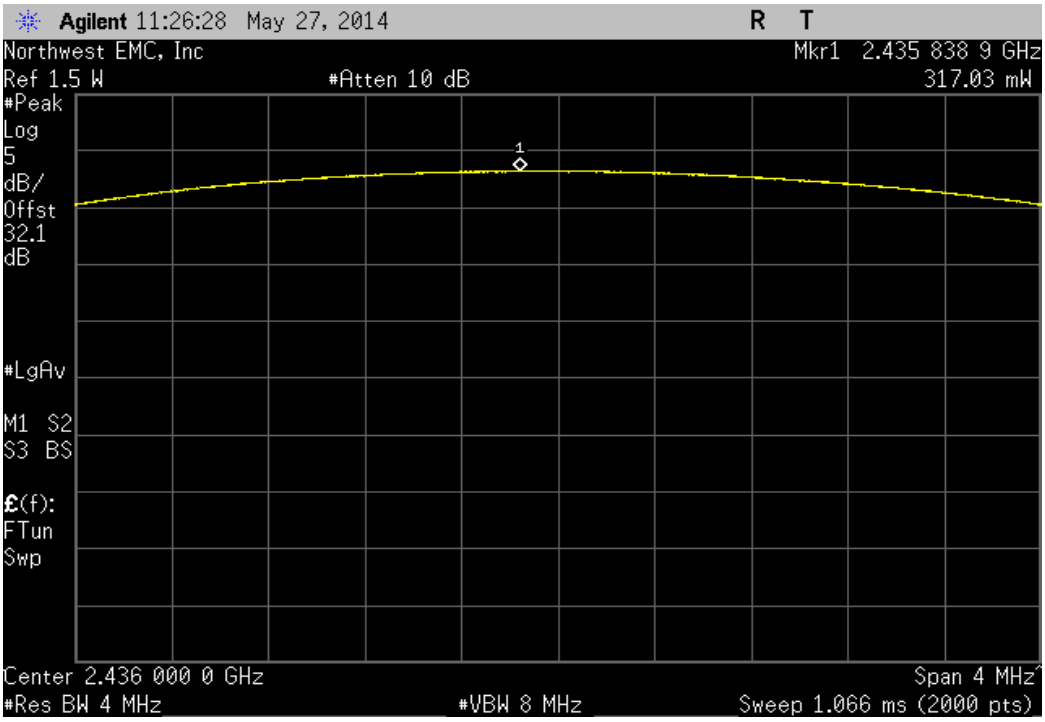
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2406 MHz

				Value	Limit	Result
				393.188 mW	< 1 W	Pass

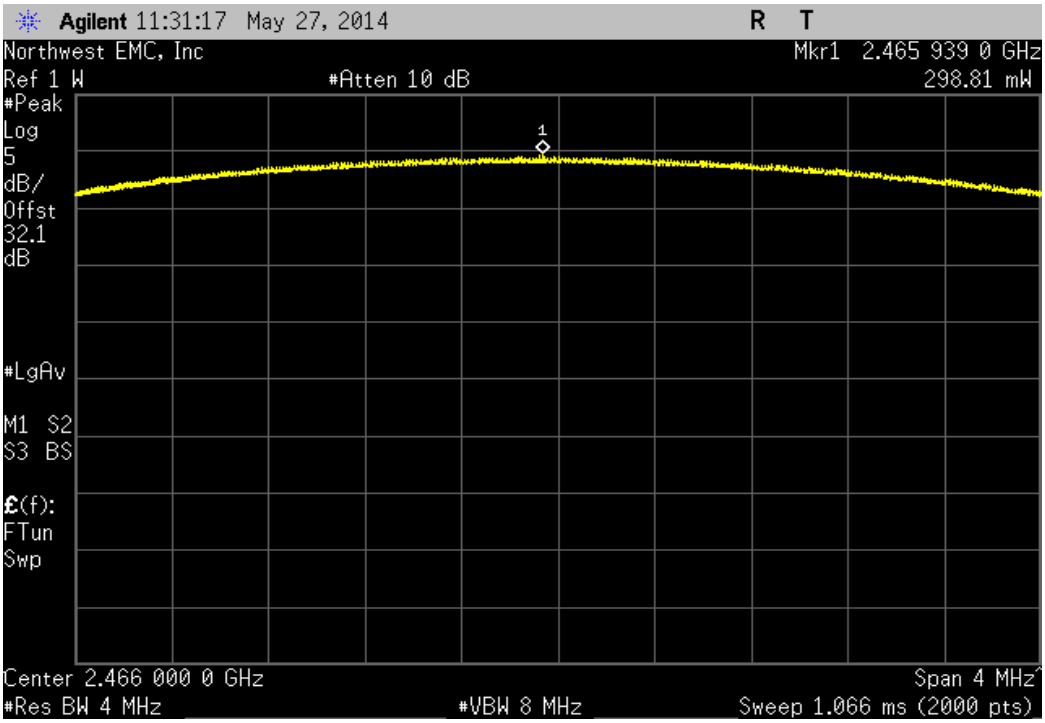


OUTPUT POWER - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2436 MHz						
				Value	Limit	Result
				317.03 mW	< 1 W	Pass



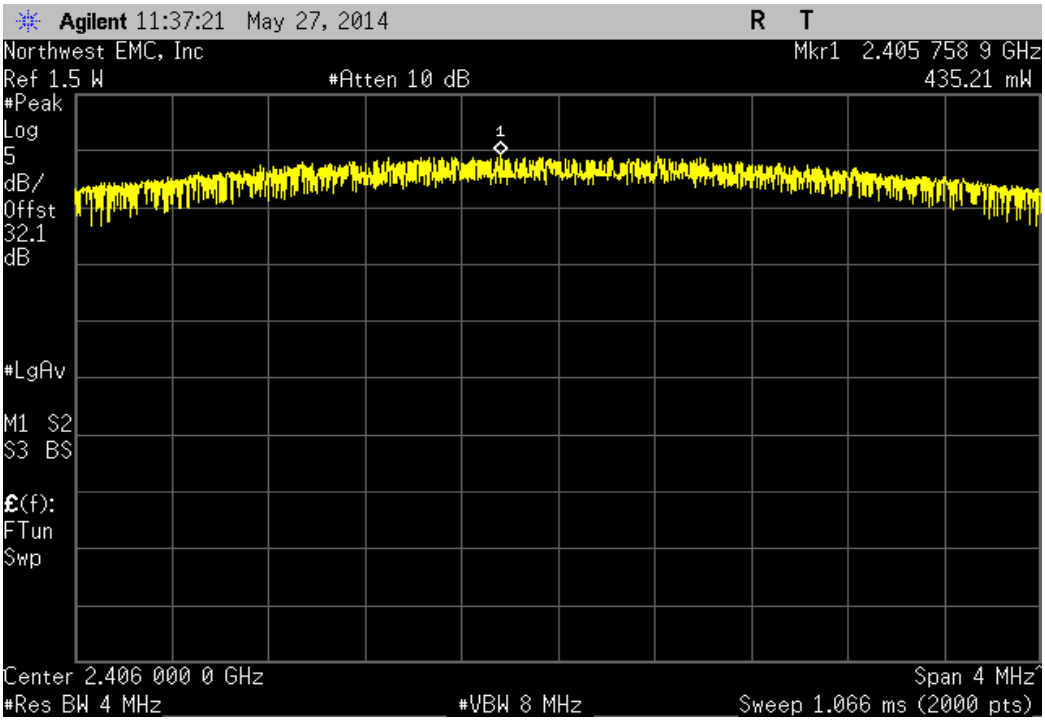
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2466 MHz						
				Value	Limit	Result
				298.813 mW	< 1 W	Pass



OUTPUT POWER - SISO

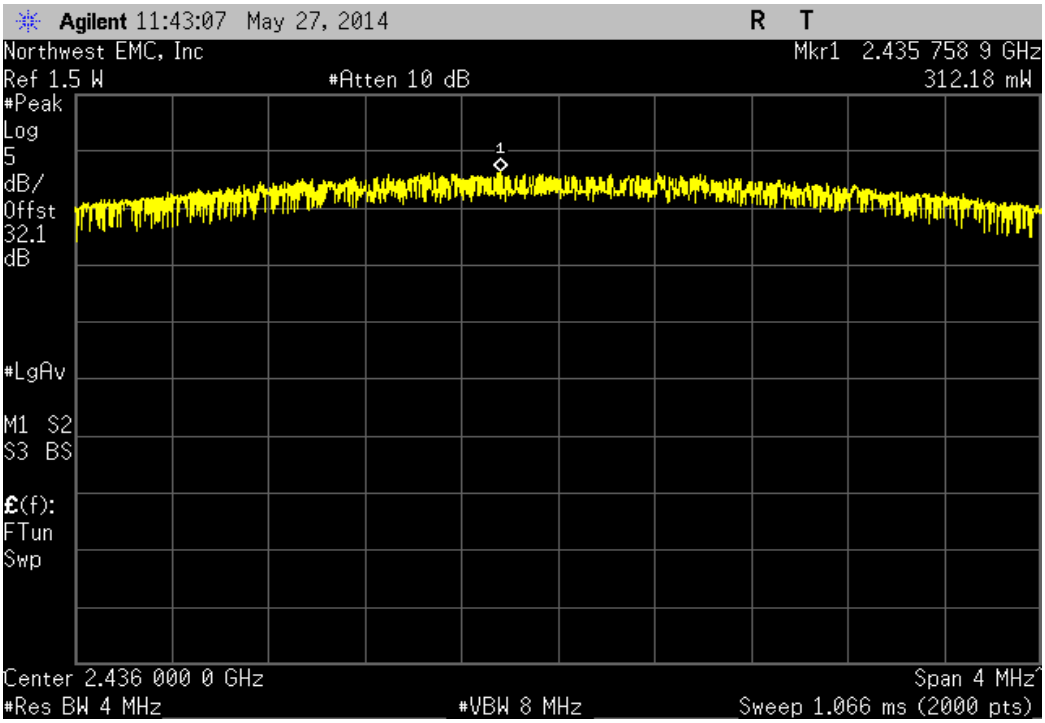
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2406 MHz

				Value	Limit	Result
				435.211 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2436 MHz

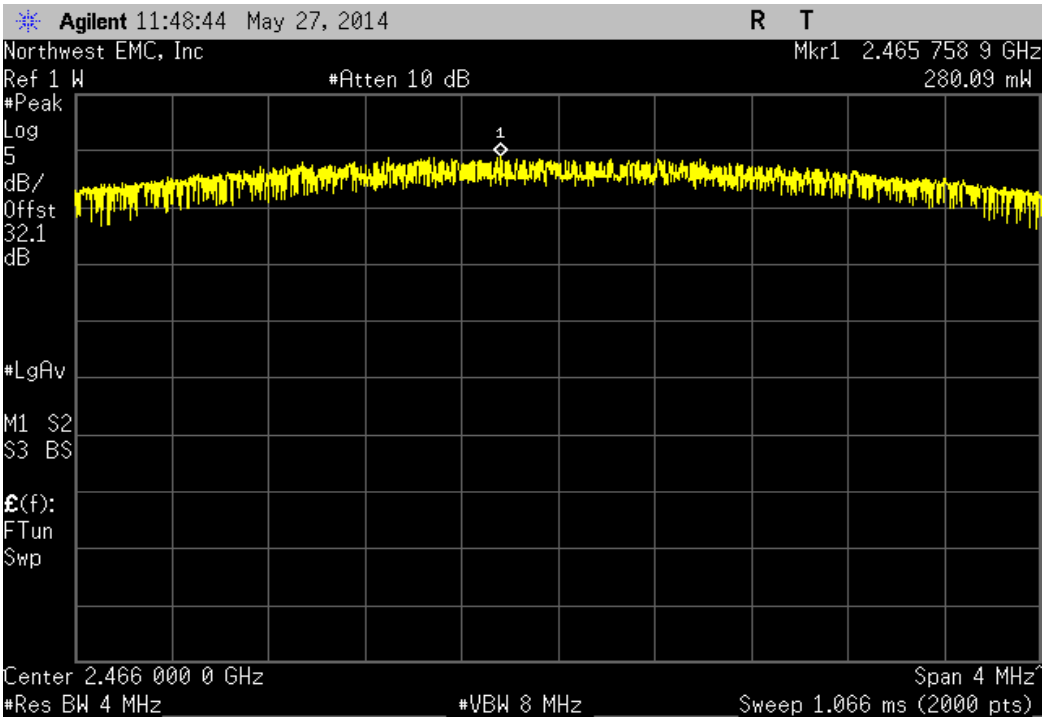
				Value	Limit	Result
				312.176 mW	< 1 W	Pass



OUTPUT POWER - SISO

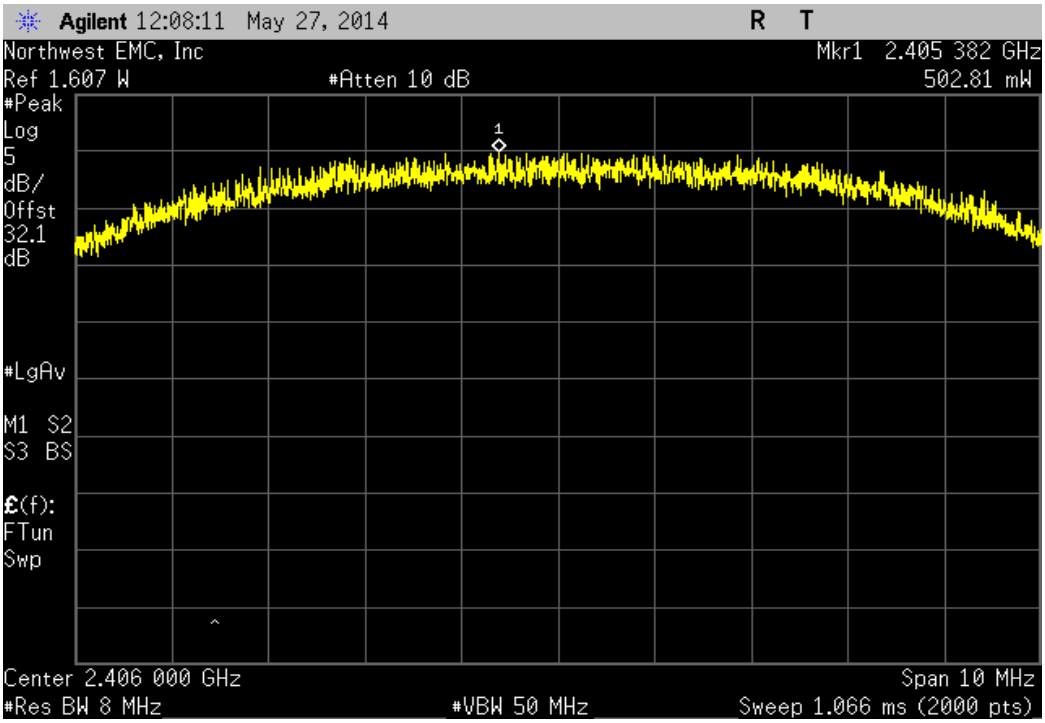
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., High Channel 2466 MHz

				Value	Limit	Result
				280.092 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz

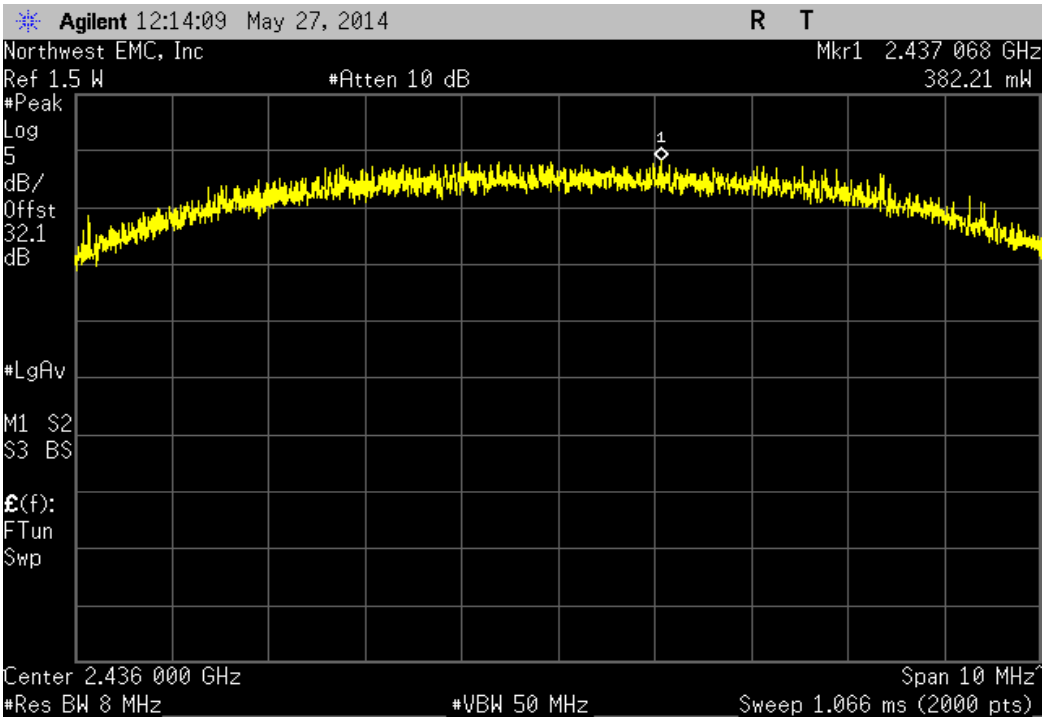
				Value	Limit	Result
				502.805 mW	< 1 W	Pass



OUTPUT POWER - SISO

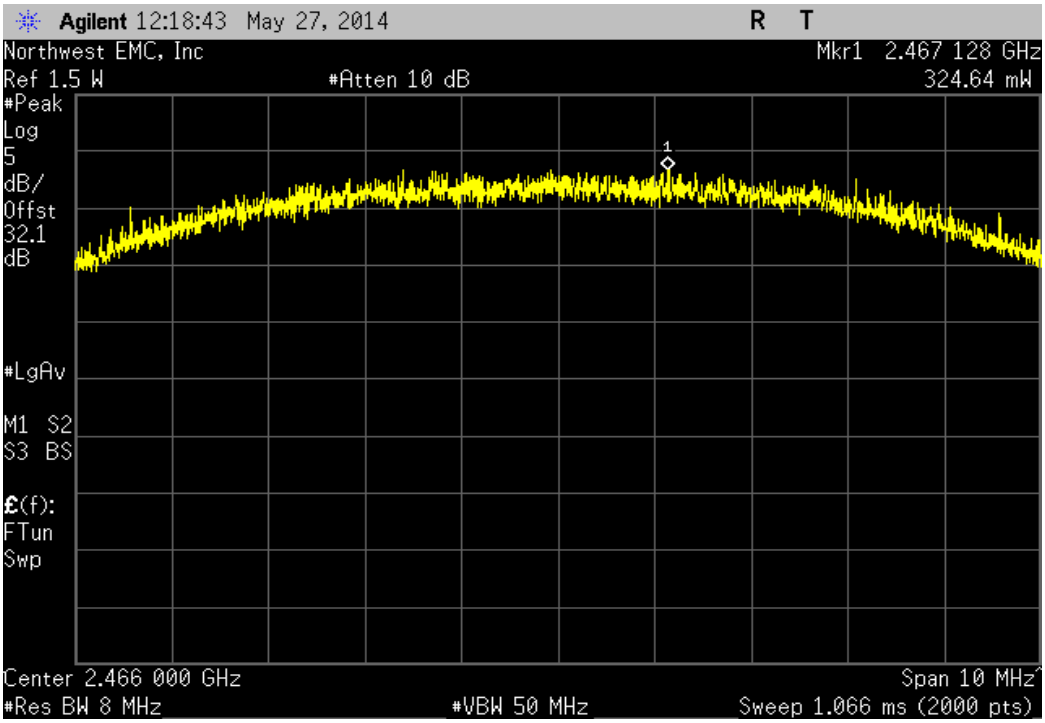
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz

				Value	Limit	Result
				382.208 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz

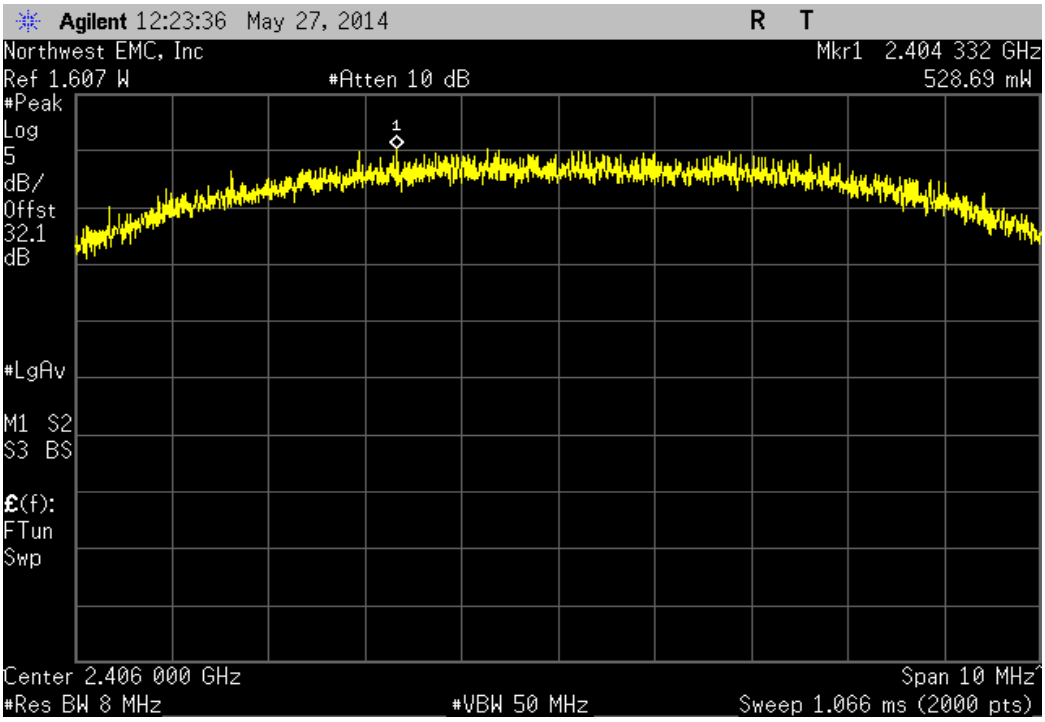
				Value	Limit	Result
				324.638 mW	< 1 W	Pass



OUTPUT POWER - SISO

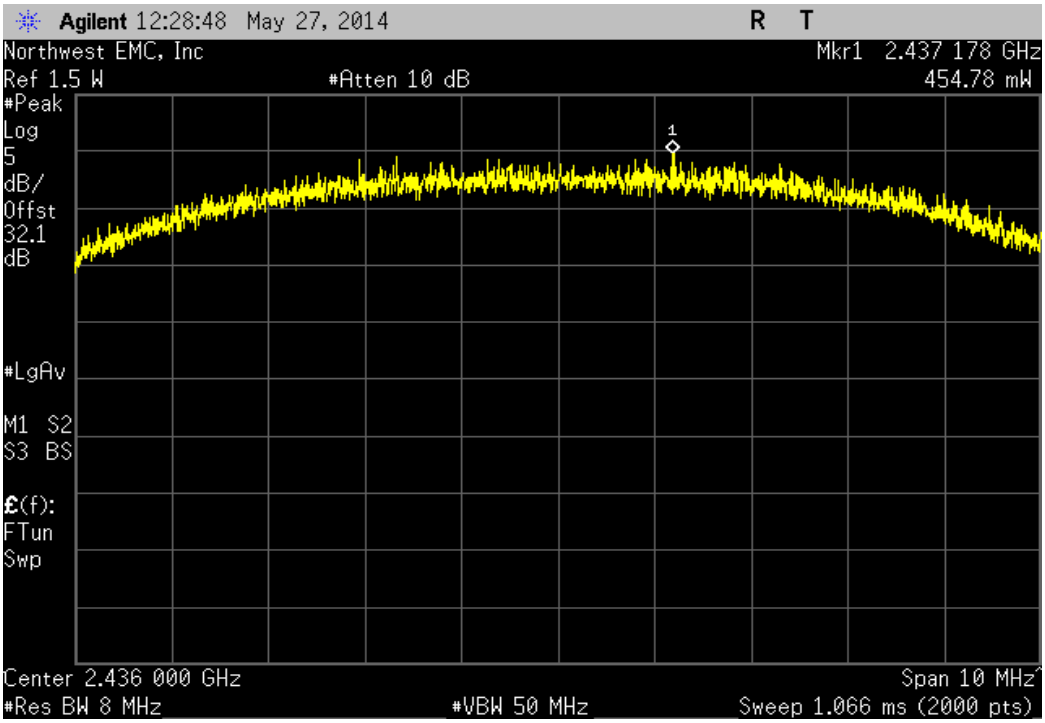
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2406 MHz

				Value	Limit	Result
				528.689 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz

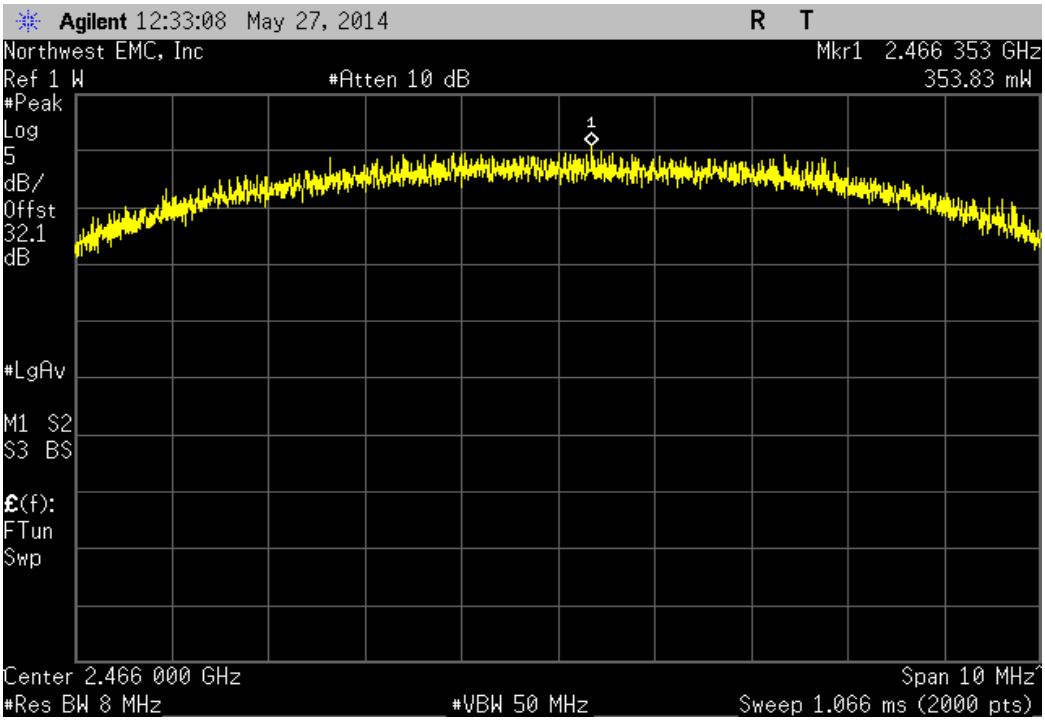
				Value	Limit	Result
				454.779 mW	< 1 W	Pass



OUTPUT POWER - SISO

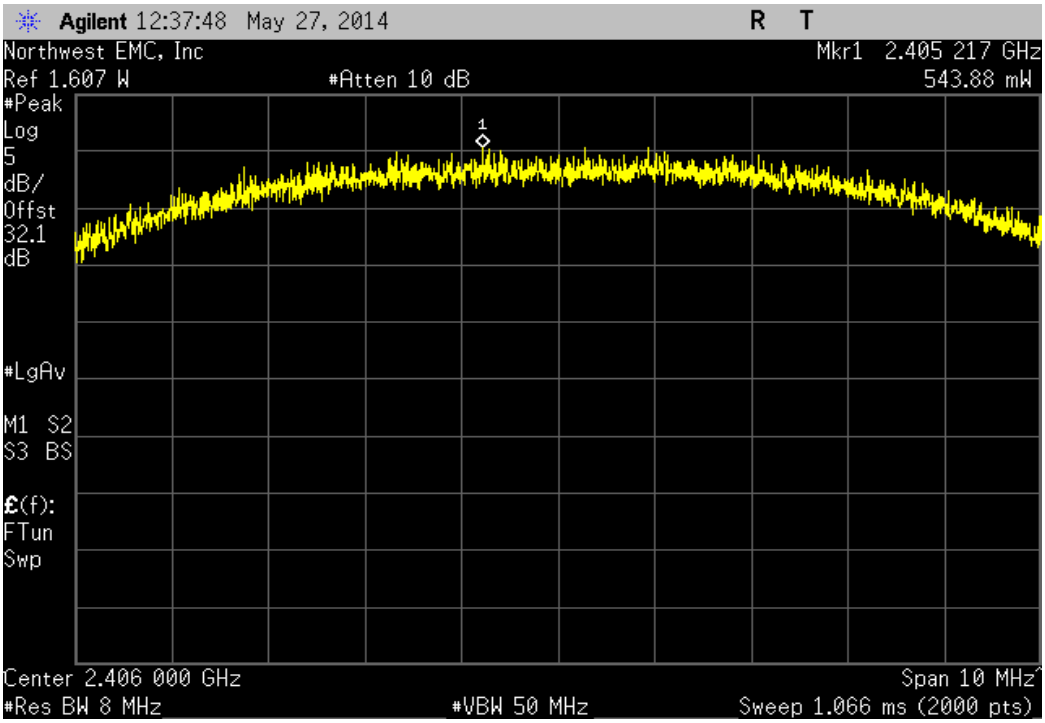
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2466 MHz

				Value	Limit	Result
				353.834 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2406 MHz

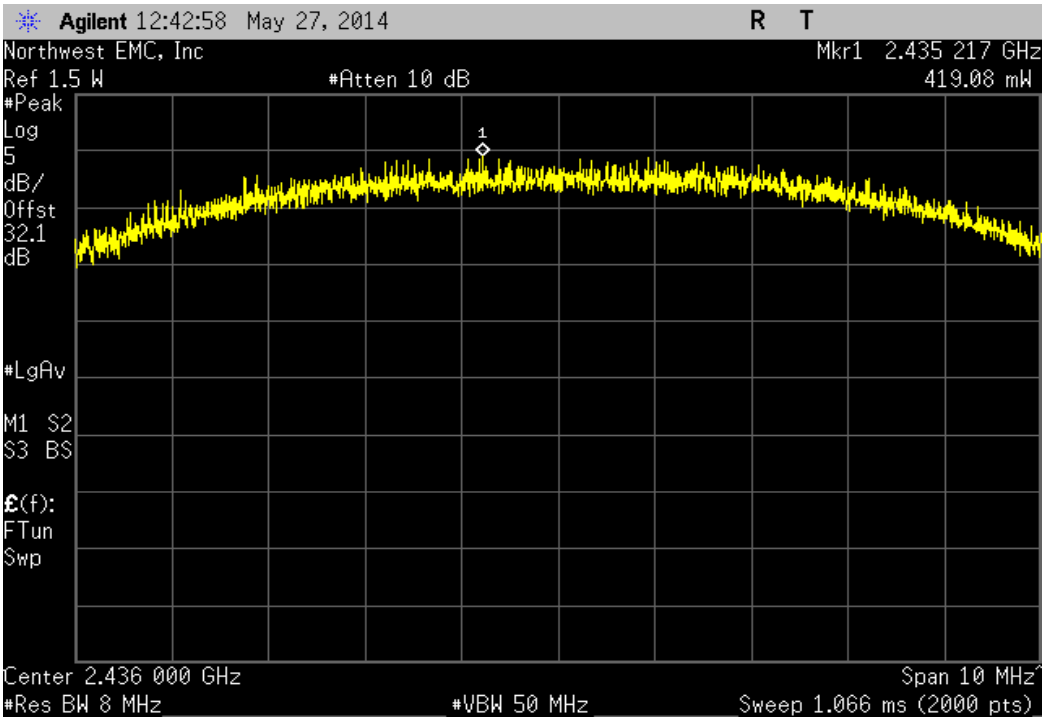
				Value	Limit	Result
				543.876 mW	< 1 W	Pass



OUTPUT POWER - SISO

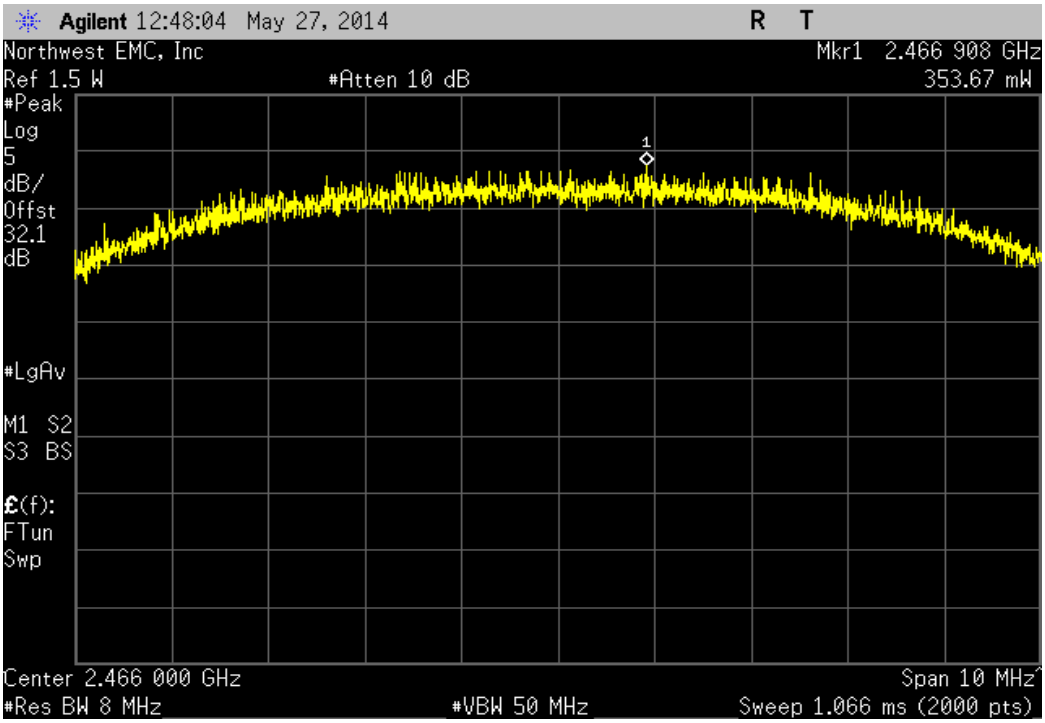
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz

				Value	Limit	Result
				419.083 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2466 MHz

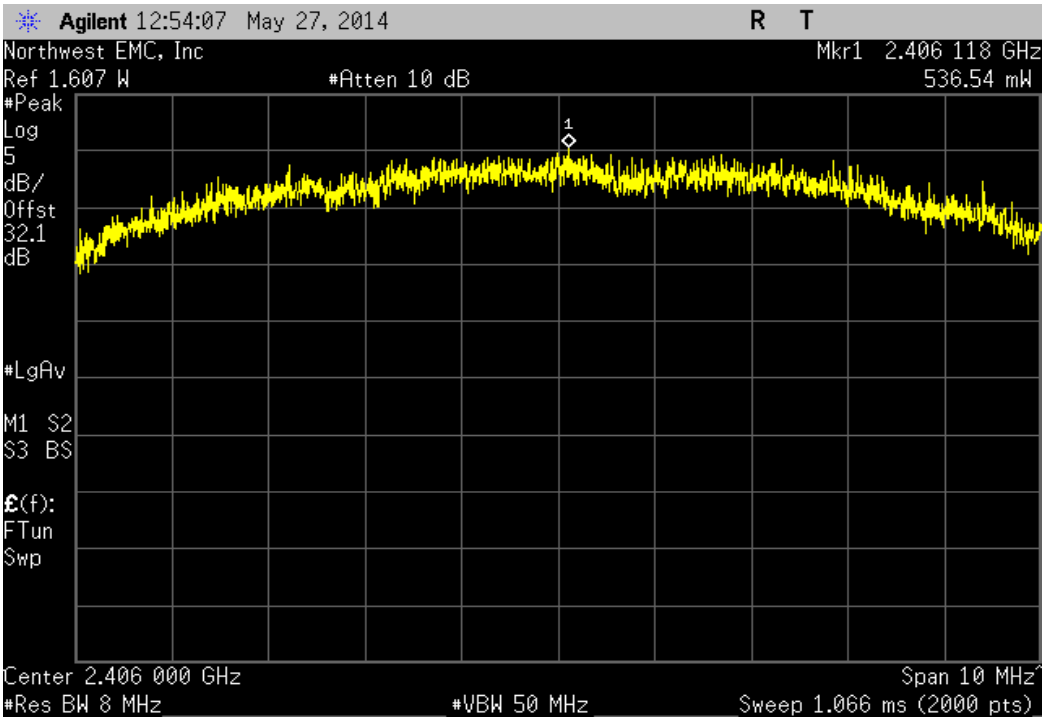
				Value	Limit	Result
				353.671 mW	< 1 W	Pass



OUTPUT POWER - SISO

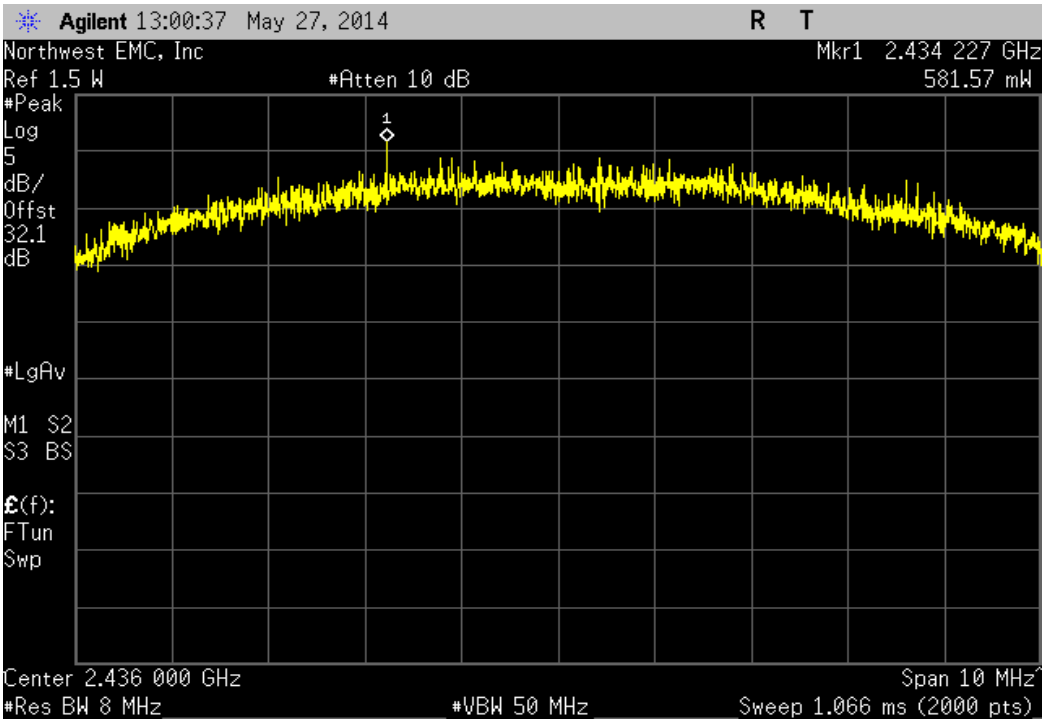
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2406 MHz

				Value	Limit	Result
				536.537 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2436 MHz

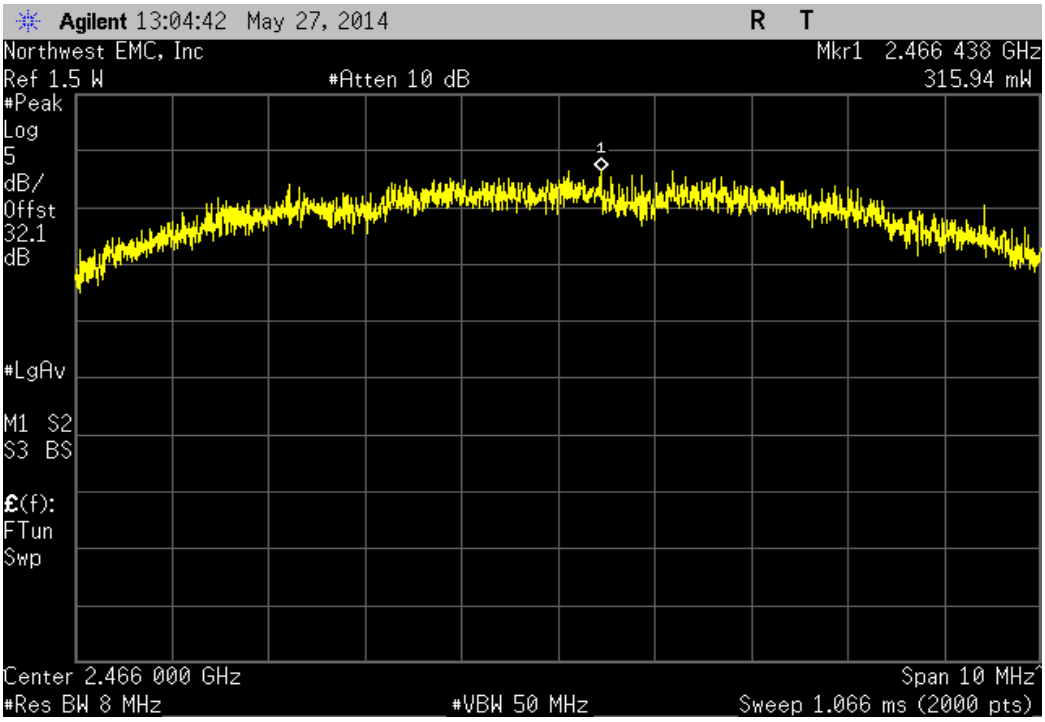
				Value	Limit	Result
				581.567 mW	< 1 W	Pass



OUTPUT POWER - SISO

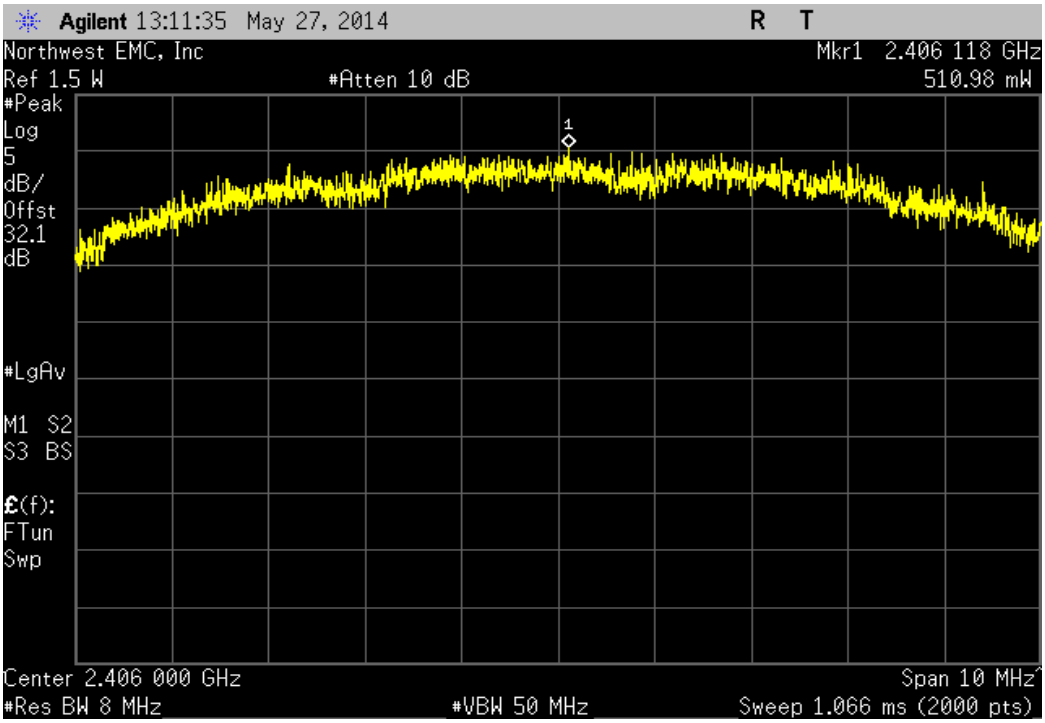
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2466 MHz

				Value	Limit	Result
				315.937 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

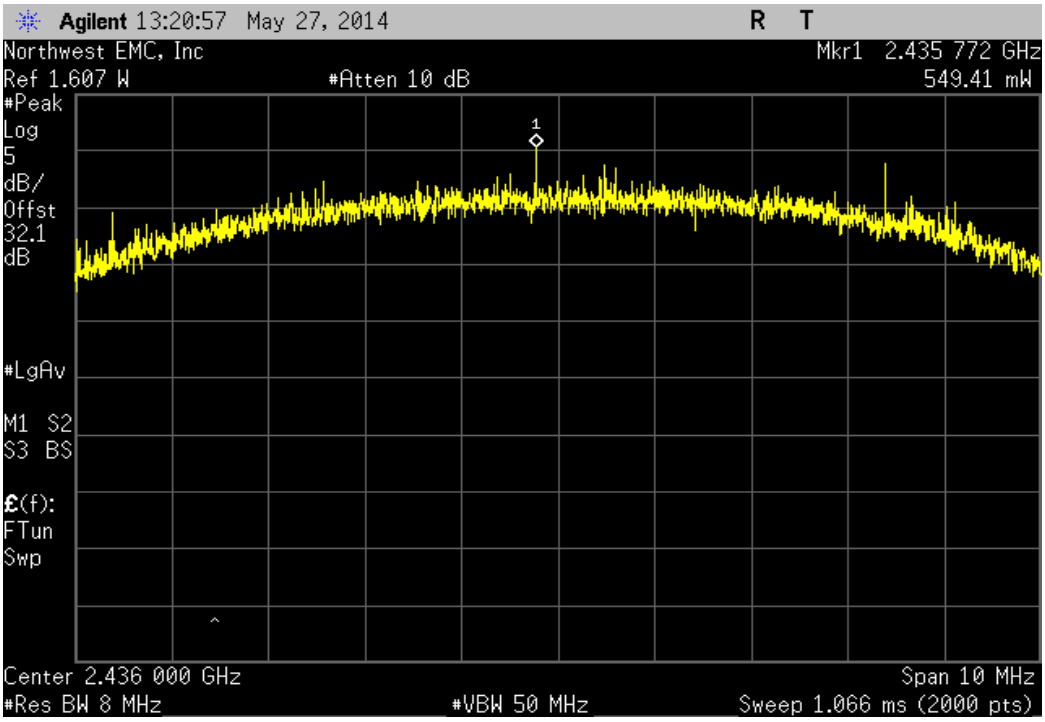
				Value	Limit	Result
				510.975 mW	< 1 W	Pass



OUTPUT POWER - SISO

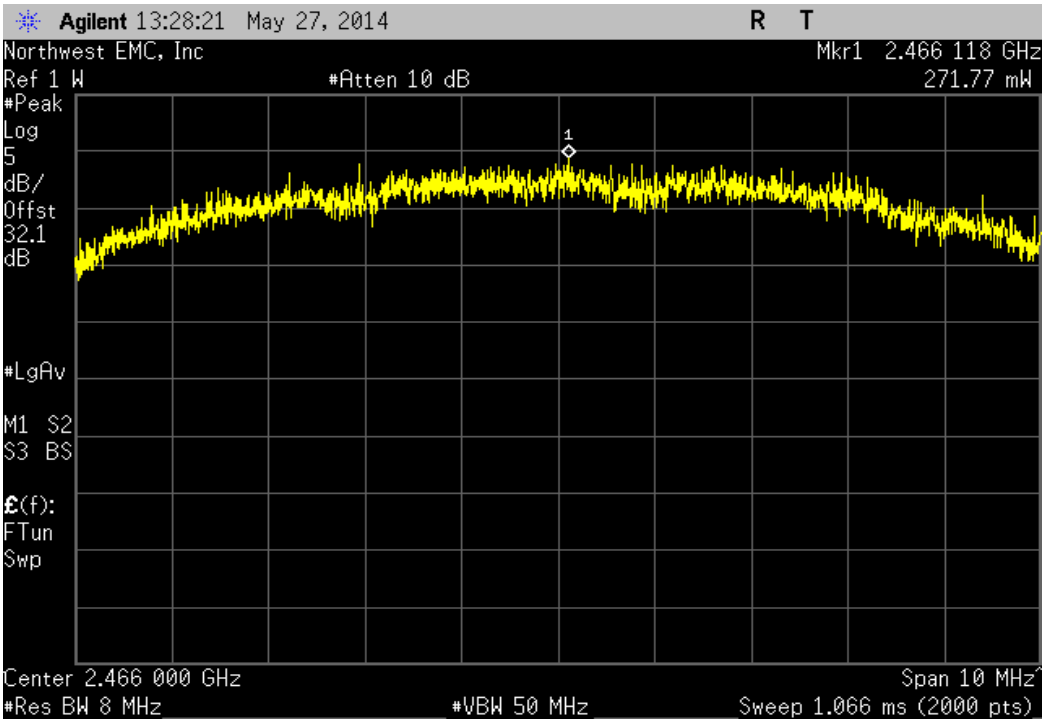
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				549.414 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

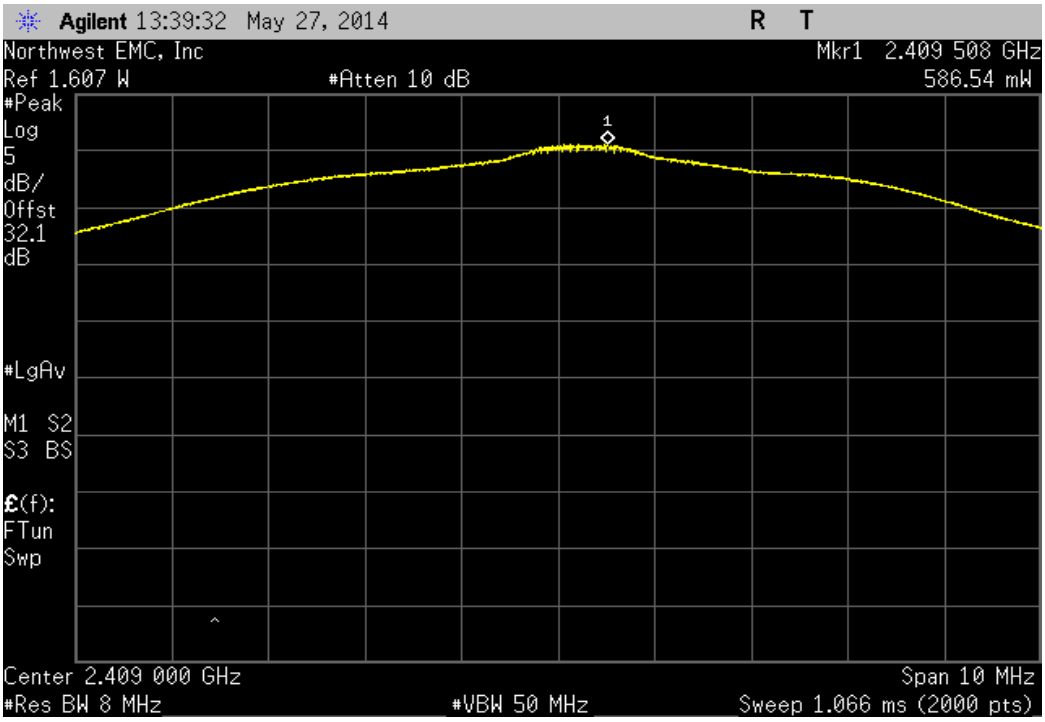
				Value	Limit	Result
				271.769 mW	< 1 W	Pass



OUTPUT POWER - SISO

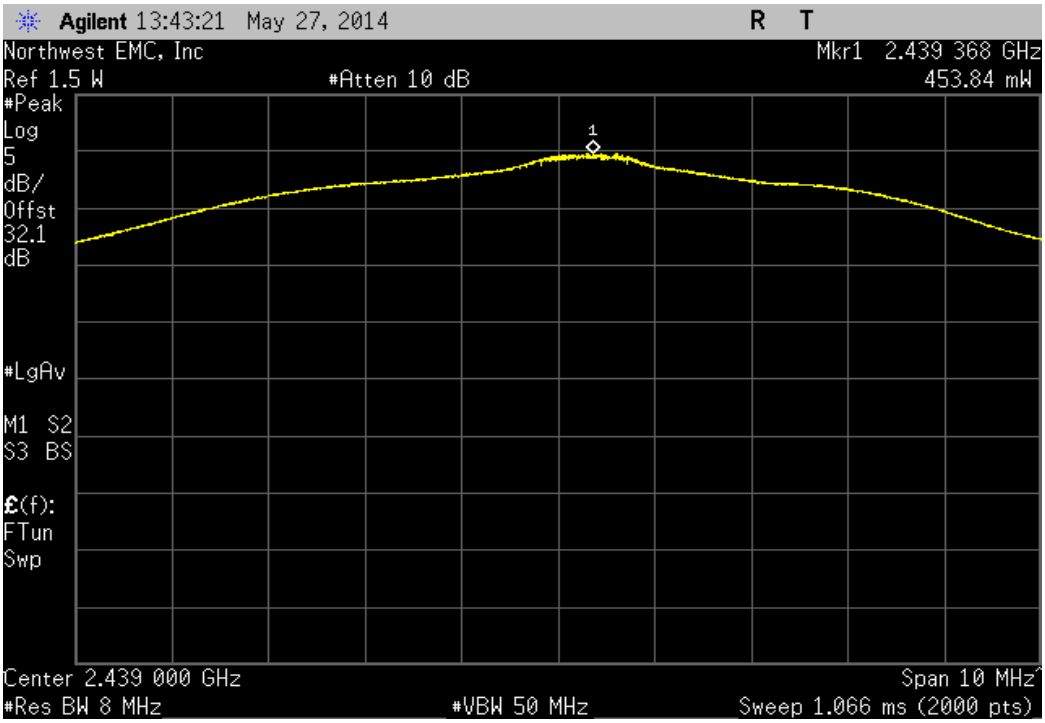
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2409 MHz

				Value	Limit	Result
				586.543 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2439 MHz

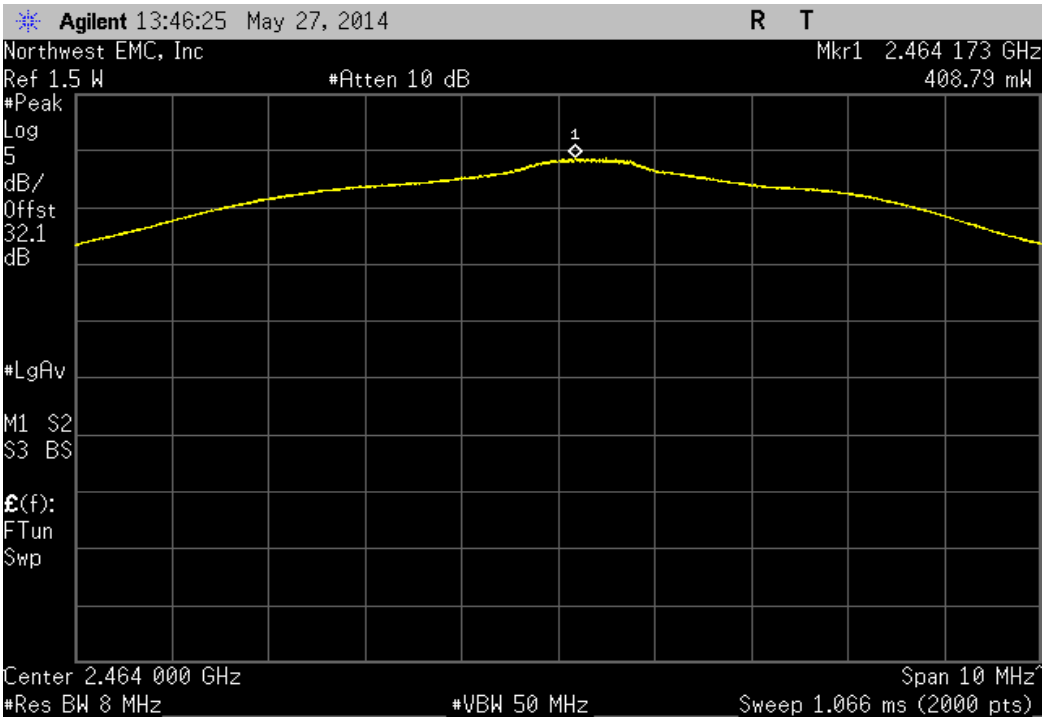
				Value	Limit	Result
				453.837 mW	< 1 W	Pass



OUTPUT POWER - SISO

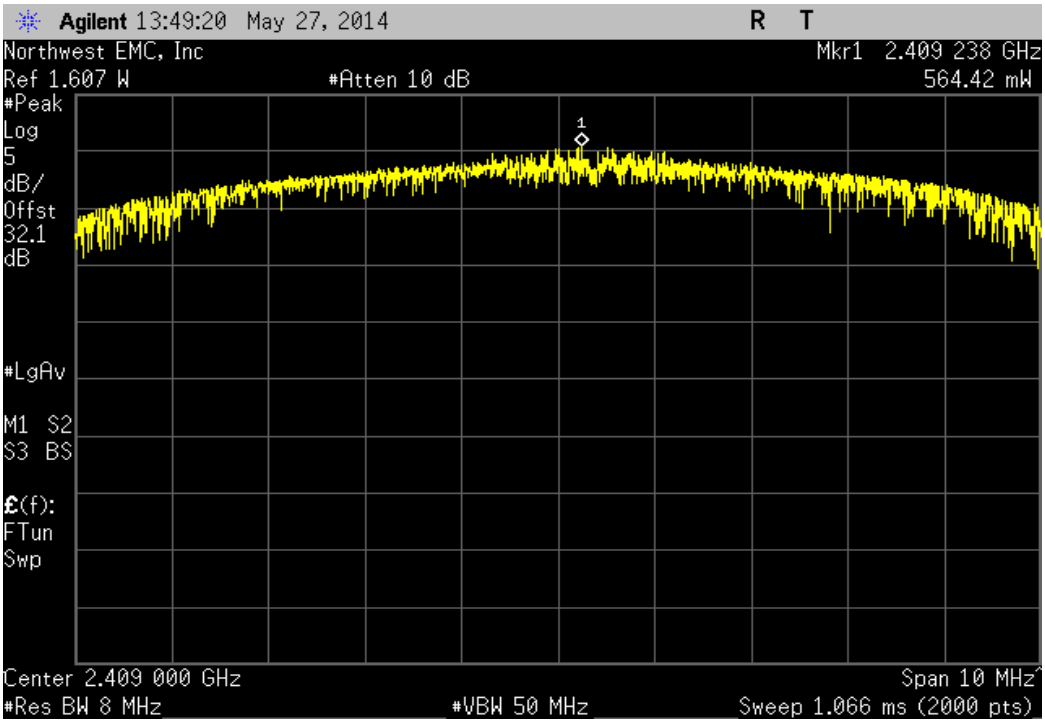
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., High Channel 2464 MHz

				Value	Limit	Result
				408.79 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Low Channel 2409 MHz

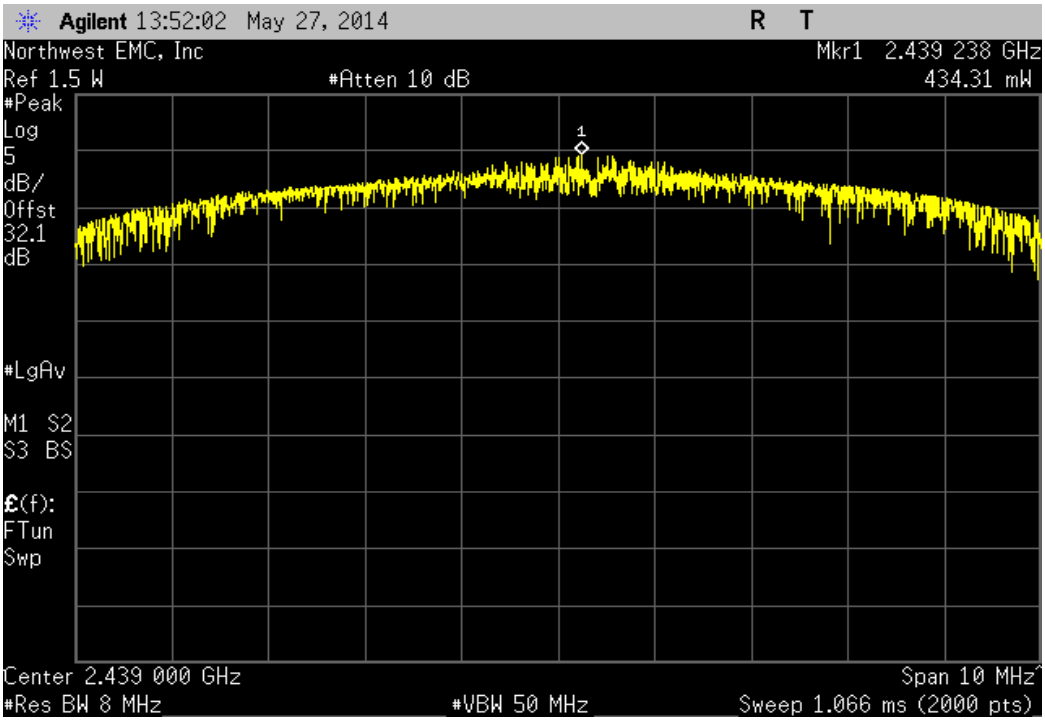
				Value	Limit	Result
				564.417 mW	< 1 W	Pass



OUTPUT POWER - SISO

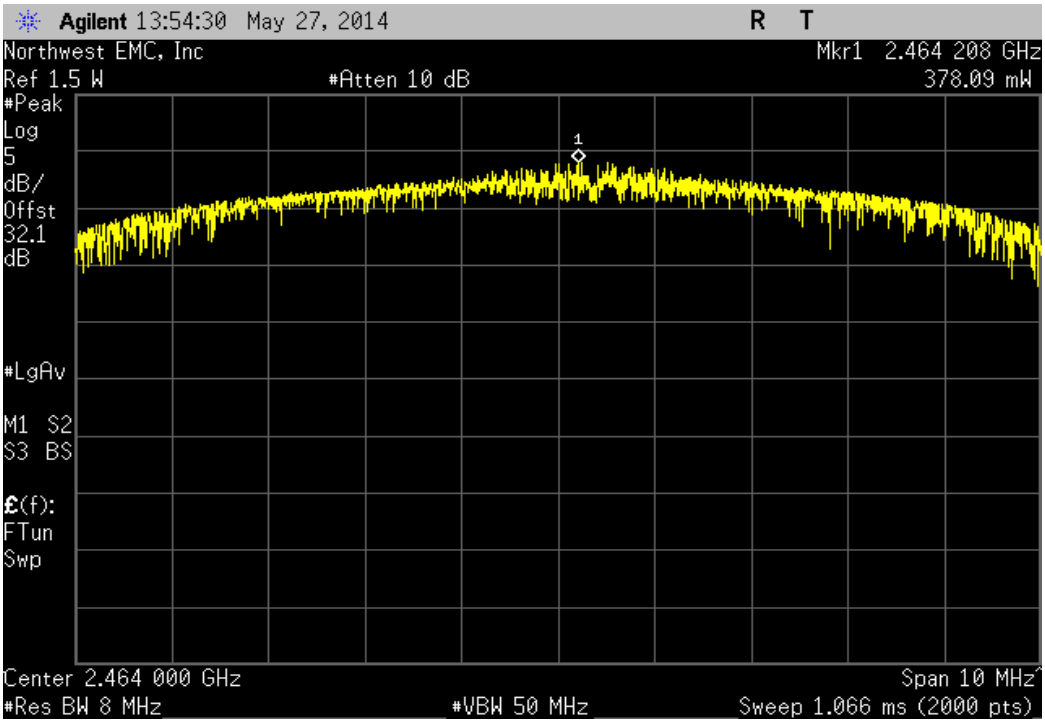
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2439 MHz

				Value	Limit	Result
				434.31 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., High Channel 2464 MHz

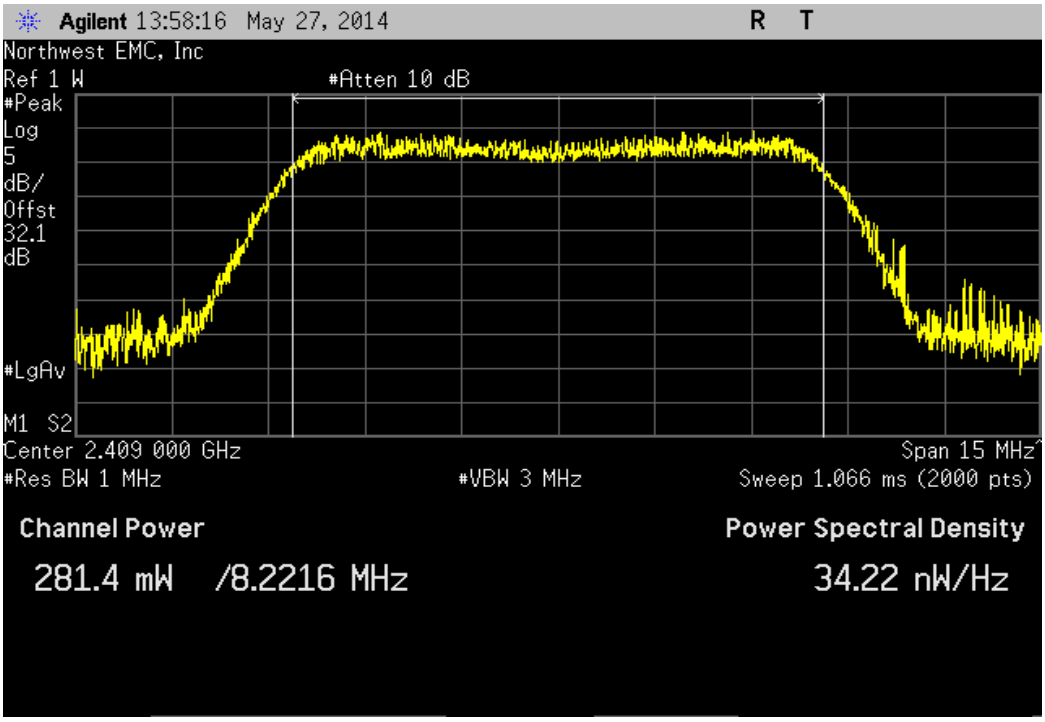
				Value	Limit	Result
				378.094 mW	< 1 W	Pass



OUTPUT POWER - SISO

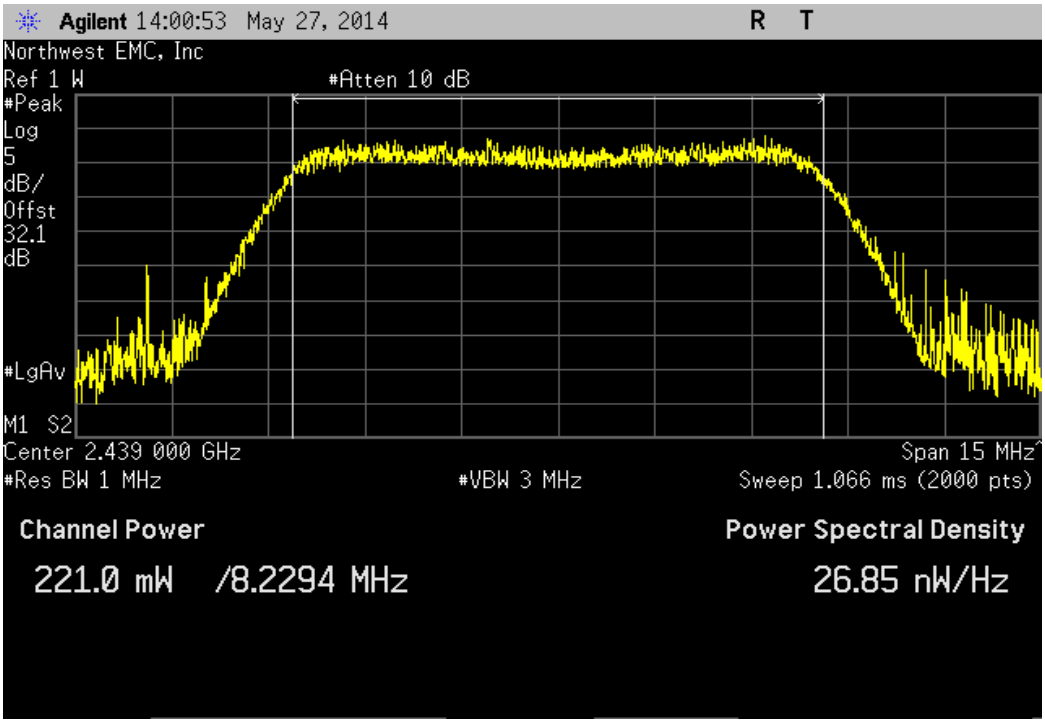
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz

				Value	Limit	Result
				281.354 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz

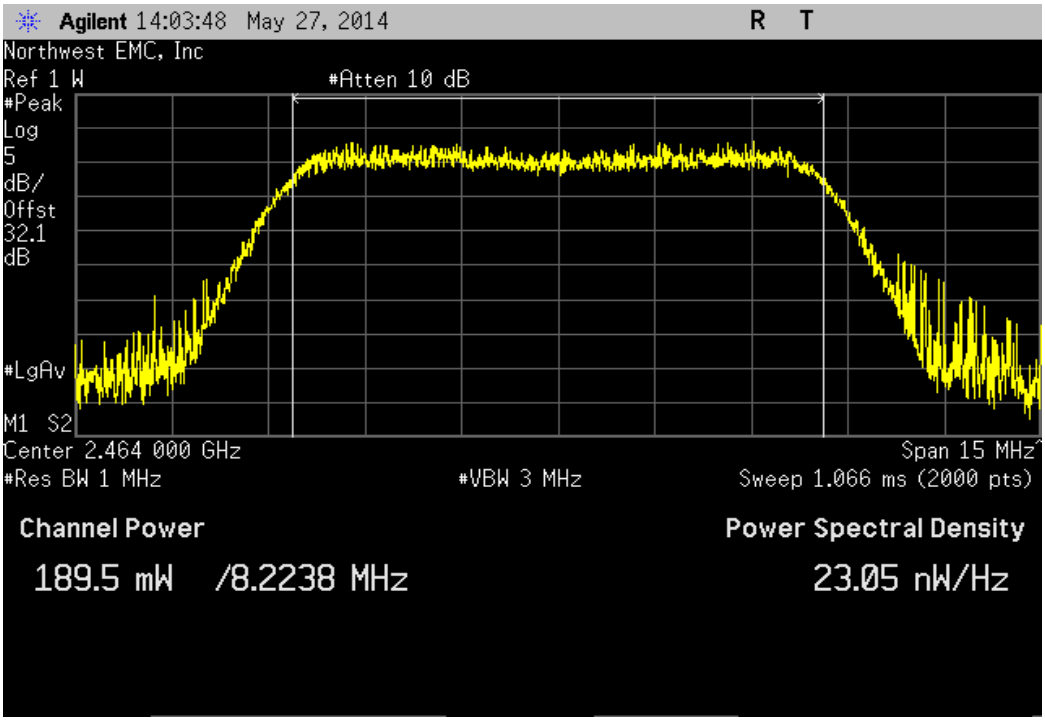
				Value	Limit	Result
				220.963 mW	< 1 W	Pass



OUTPUT POWER - SISO

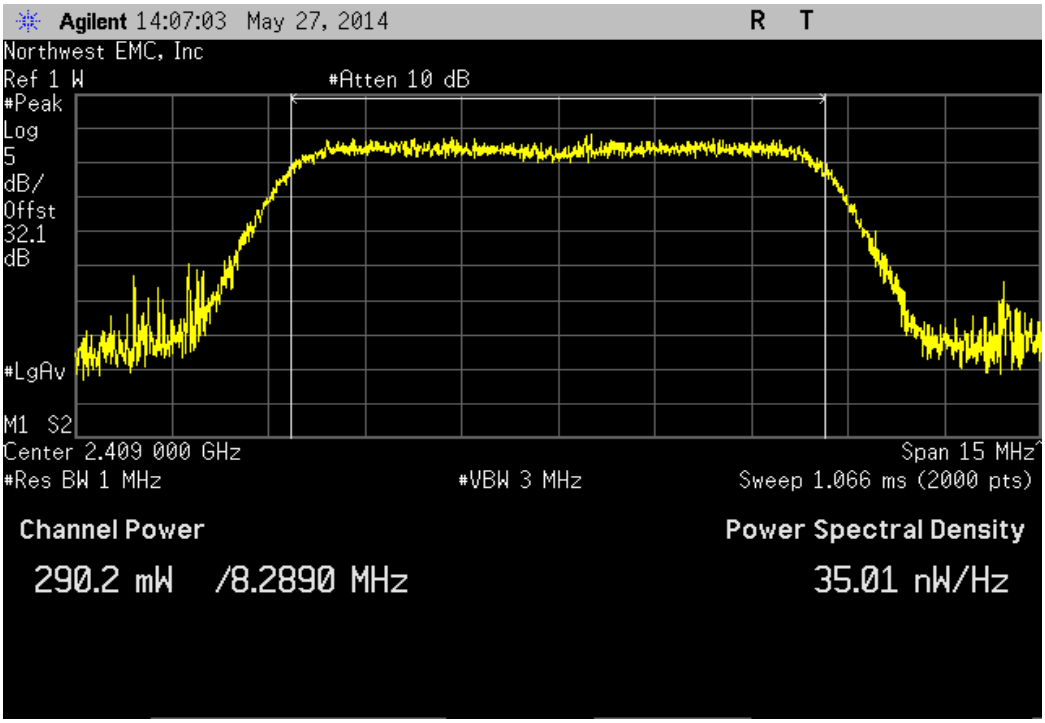
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz

				Value	Limit	Result
				189.54 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2409 MHz

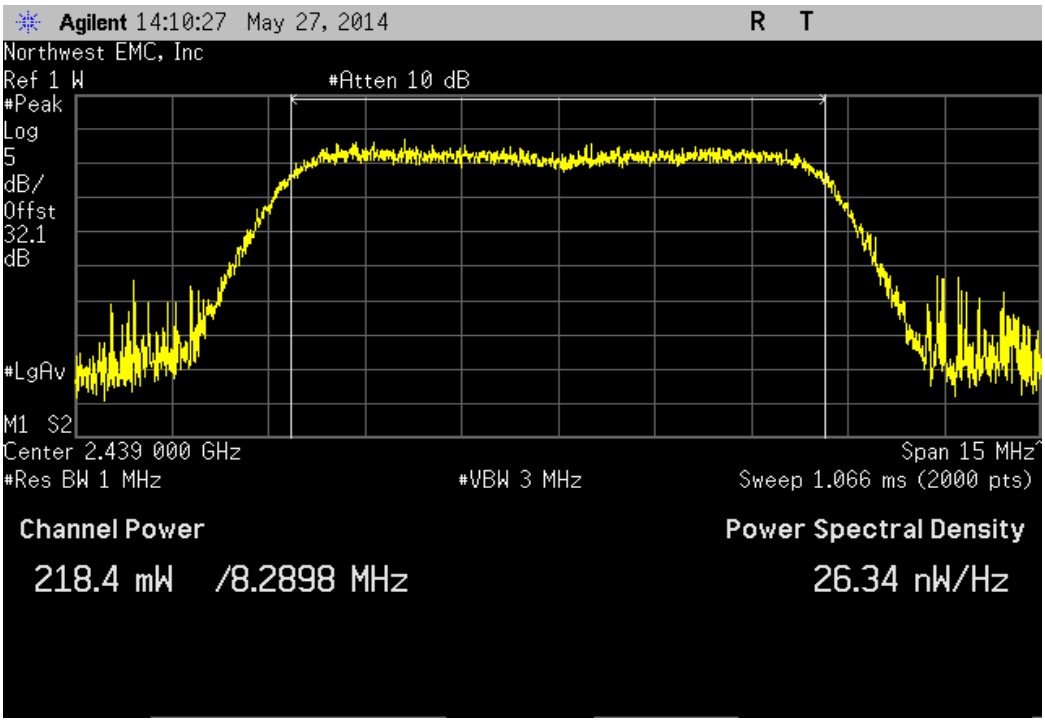
				Value	Limit	Result
				290.155 mW	< 1 W	Pass



OUTPUT POWER - SISO

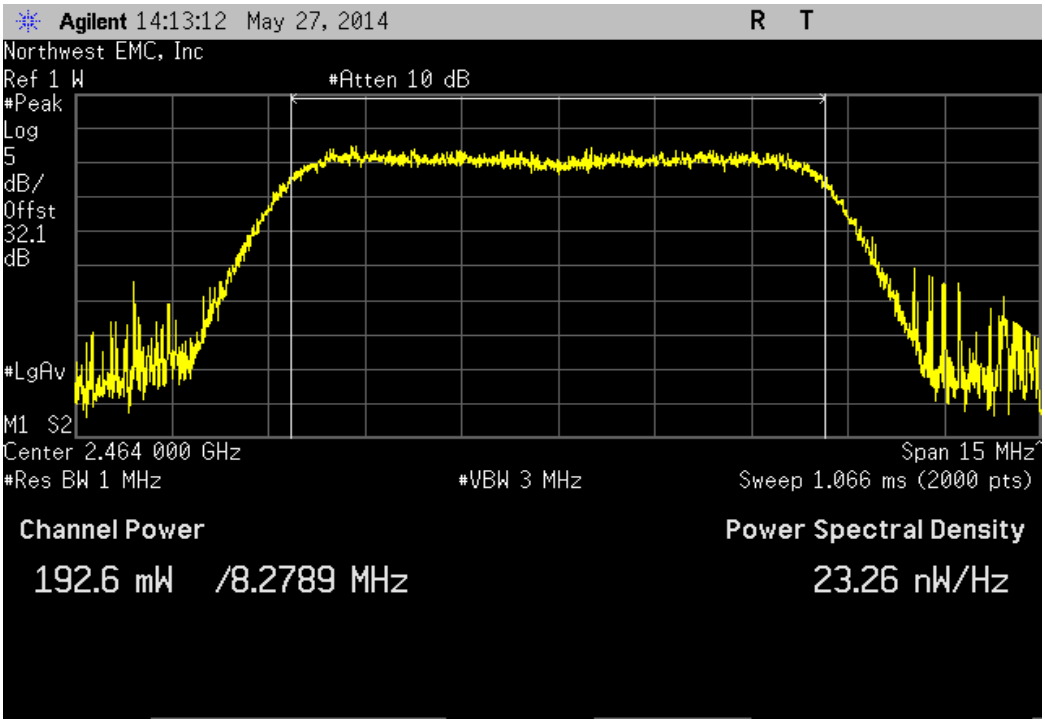
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz

				Value	Limit	Result
				218.396 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2464 MHz

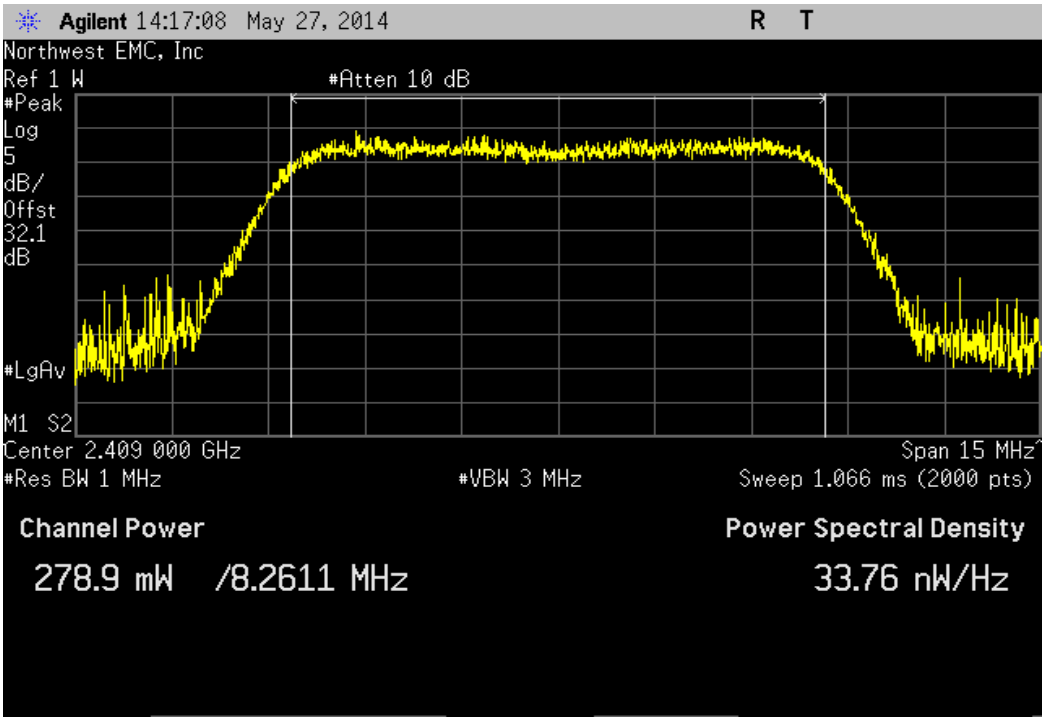
				Value	Limit	Result
				192.608 mW	< 1 W	Pass



OUTPUT POWER - SISO

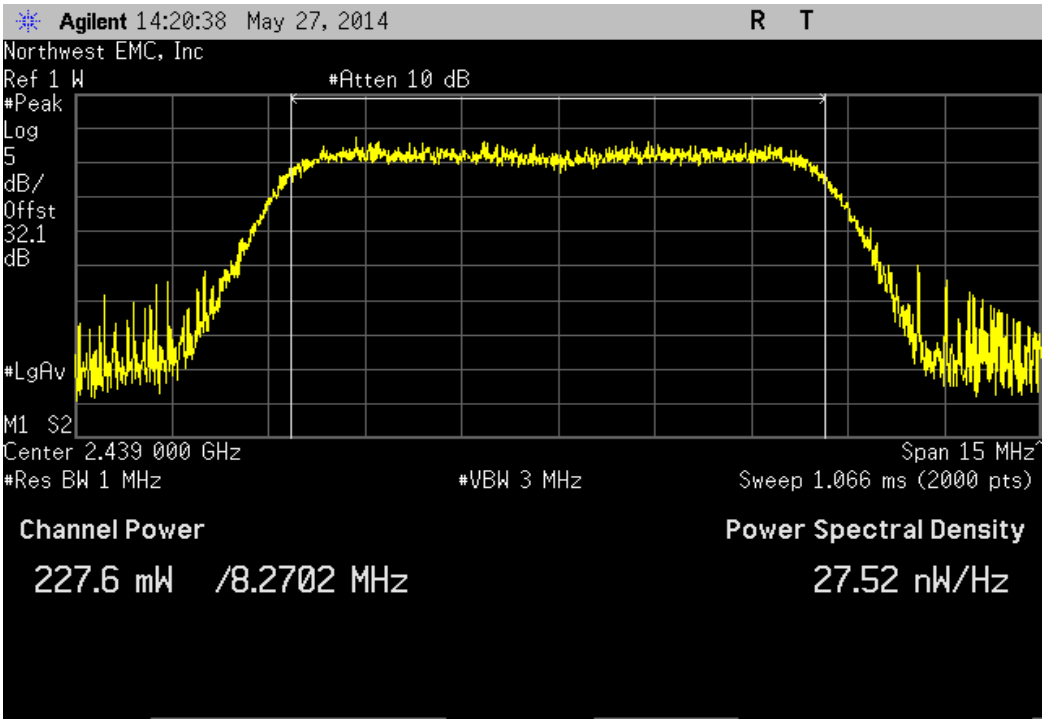
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2409 MHz

				Value	Limit	Result
				278.873 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz

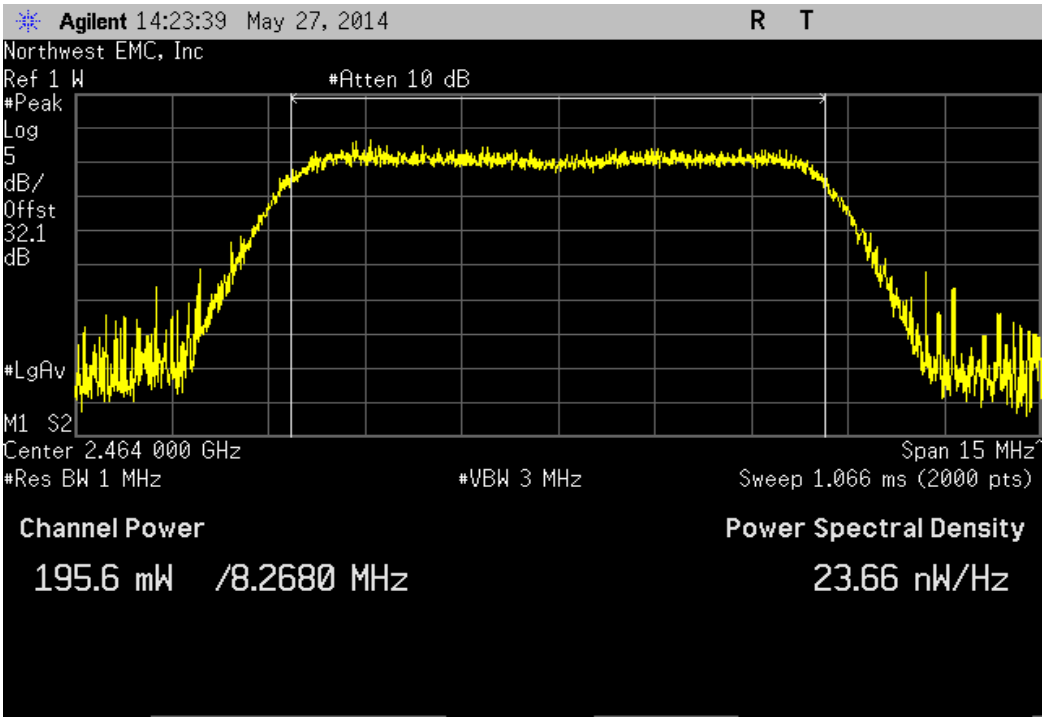
				Value	Limit	Result
				227.555 mW	< 1 W	Pass



OUTPUT POWER - SISO

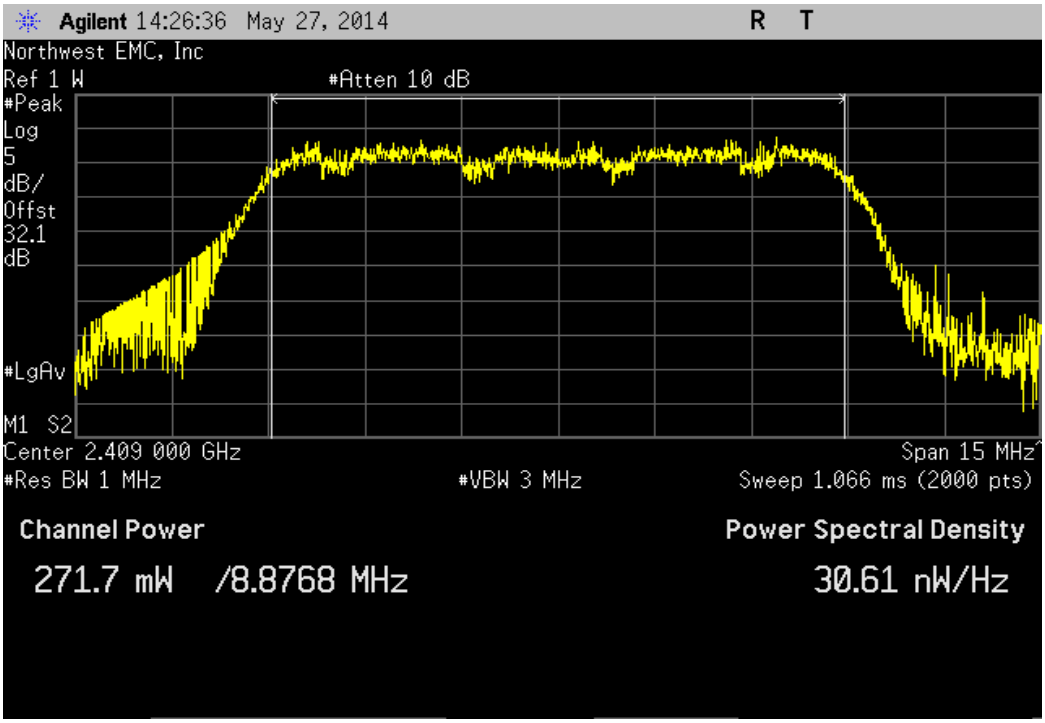
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2464 MHz

				Value	Limit	Result
				195.622 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2409 MHz

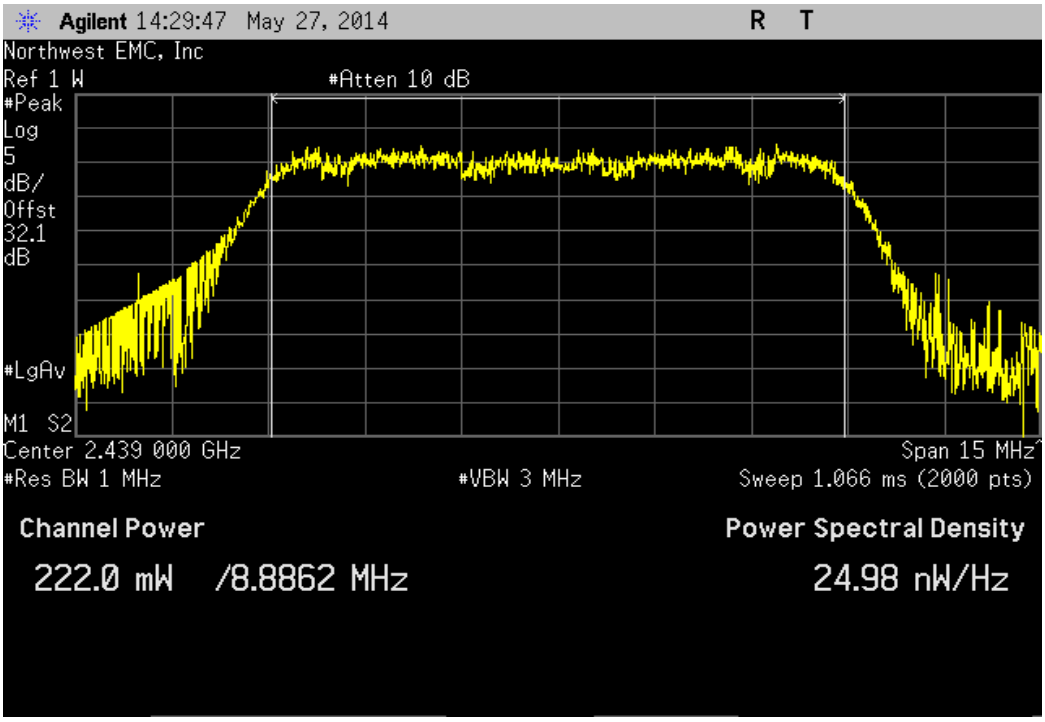
				Value	Limit	Result
				271.702 mW	< 1 W	Pass



OUTPUT POWER - SISO

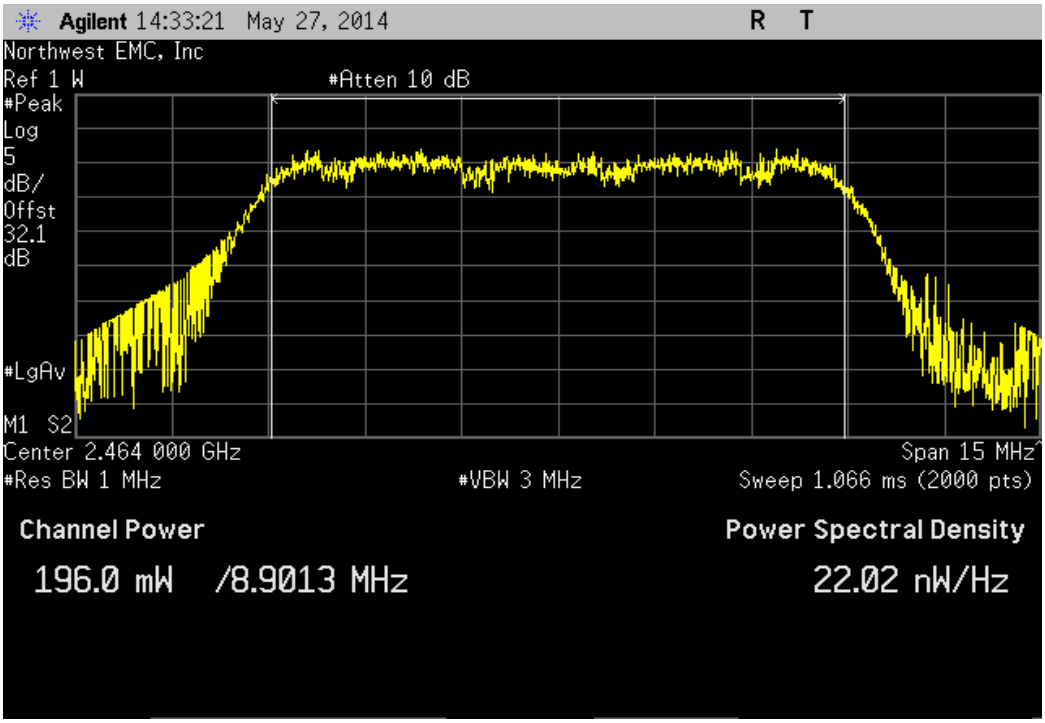
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2439 MHz

				Value	Limit	Result
				221.988 mW	< 1 W	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2464 MHz

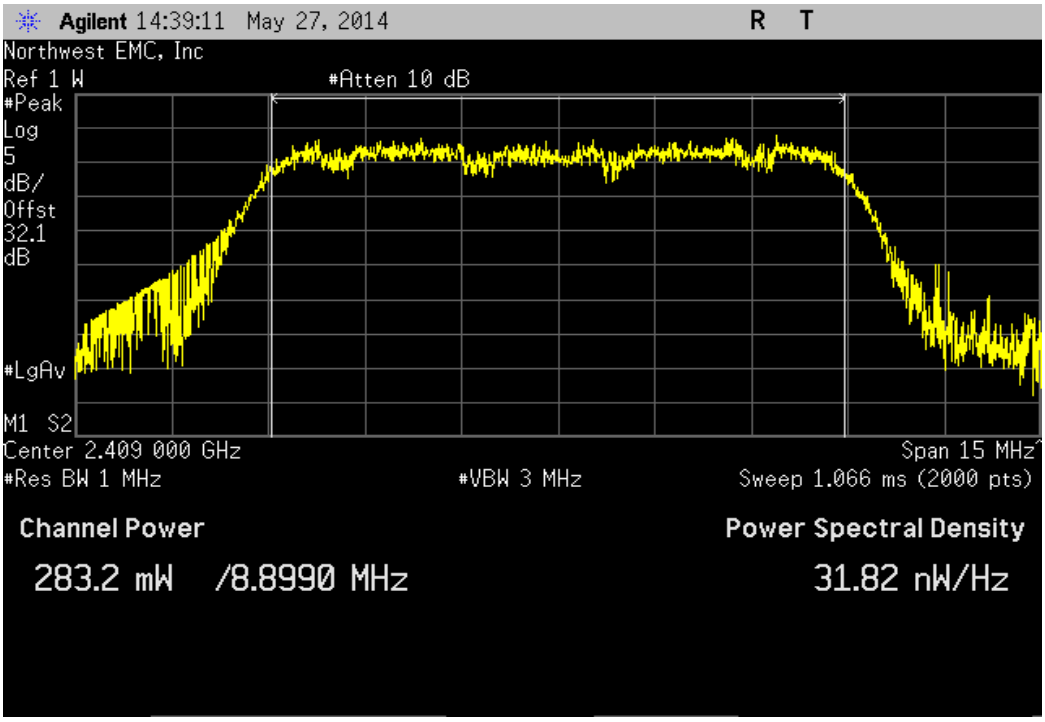
				Value	Limit	Result
				196.009 mW	< 1 W	Pass



OUTPUT POWER - SISO

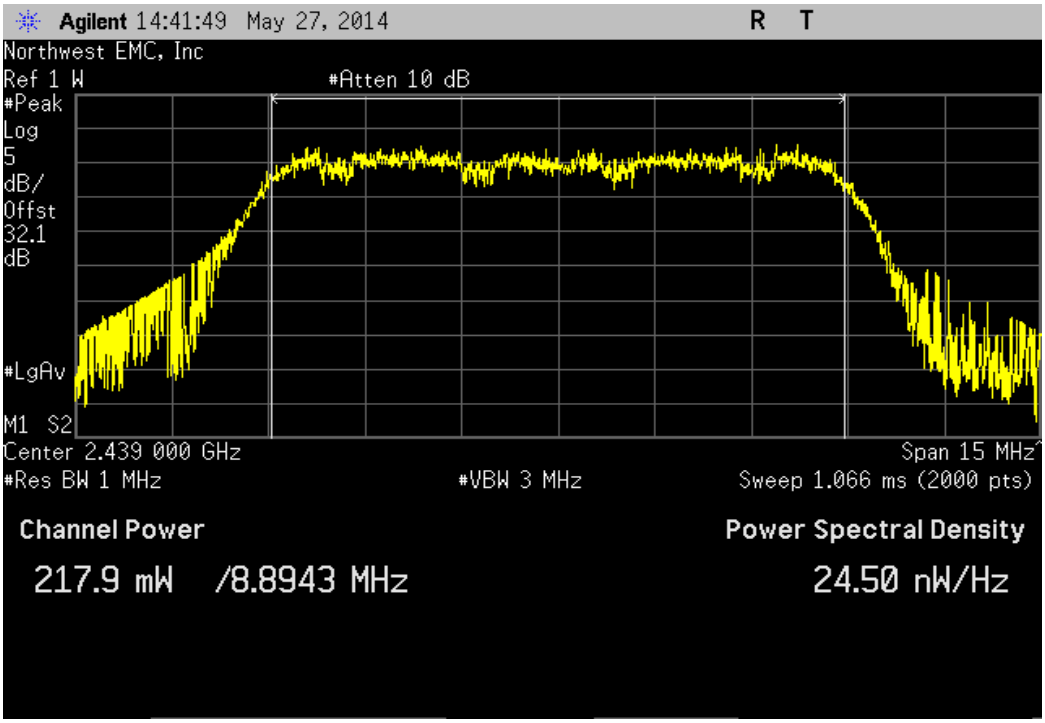
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

				Value	Limit	Result
				283.192 mW	< 1 W	Pass



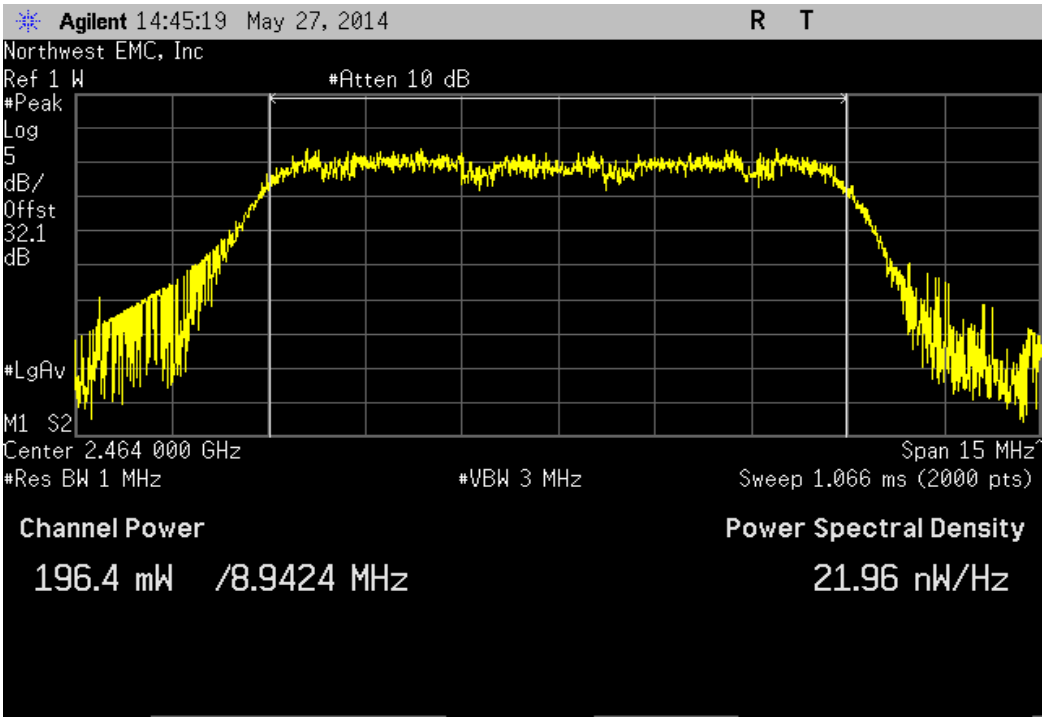
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				217.929 mW	< 1 W	Pass



OUTPUT POWER - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
				Value	Limit	Result
				196.376 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
ZG MW Analog Signal Generator 40	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method found in KDB 558074 DTS D01 Measurement Section 9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.

OUTPUT POWER - 2x2 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

Configuration #	1	Signature

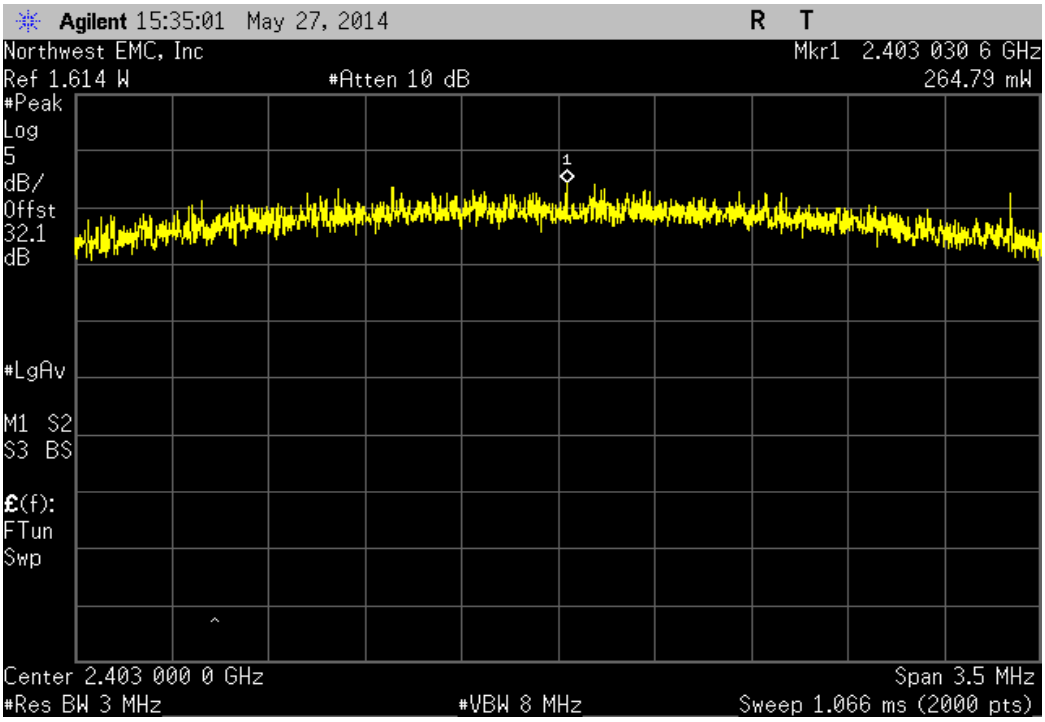
	Value	Limit	Result
Chain 1			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	264.789 mW	< 1 W	N/A
Mid Channel 2435 MHz	168.229 mW	< 1 W	N/A
High Channel 2470 MHz	263.451 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	243.164 mW	< 1 W	N/A
Mid Channel 2435 MHz	205.968 mW	< 1 W	N/A
High Channel 2470 MHz	247.514 mW	< 1 W	N/A
5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	191.249 mW	< 1 W	N/A
Mid Channel 2436 MHz	151.705 mW	< 1 W	N/A
High Channel 2466 MHz	119.784 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	276.63 mW	< 1 W	N/A
Mid Channel 2436 MHz	121.983 mW	< 1 W	N/A
High Channel 2466 MHz	103.015 mW	< 1 W	N/A
10MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	269.383 mW	< 1 W	N/A
Mid Channel 2439 MHz	202.676 mW	< 1 W	N/A
High Channel 2464 MHz	173.767 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	260.557 mW	< 1 W	N/A
Mid Channel 2439 MHz	194.174 mW	< 1 W	N/A
High Channel 2464 MHz	164.37 mW	< 1 W	N/A
Chain 2			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2403 MHz	239.773 mW	< 1 W	N/A
Mid Channel 2435 MHz	183.358 mW	< 1 W	N/A
High Channel 2470 MHz	193.776 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2403 MHz	248.313 mW	< 1 W	N/A
Mid Channel 2435 MHz	244.737 mW	< 1 W	N/A
High Channel 2470 MHz	229.615 mW	< 1 W	N/A
5MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2406 MHz	159.111 mW	< 1 W	N/A
Mid Channel 2436 MHz	117.004 mW	< 1 W	N/A
High Channel 2466 MHz	133.937 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2406 MHz	164.854 mW	< 1 W	N/A
Mid Channel 2436 MHz	90.282 mW	< 1 W	N/A
High Channel 2466 MHz	90.511 mW	< 1 W	N/A
10MHz Bandwidth			
2x2 Modulation Type, BPSK, Coding Rate, 1/2.			
Low Channel 2409 MHz	199.845 mW	< 1 W	N/A
Mid Channel 2439 MHz	162.281 mW	< 1 W	N/A
High Channel 2464 MHz	152.648 mW	< 1 W	N/A
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.			
Low Channel 2409 MHz	188.579 mW	< 1 W	N/A
Mid Channel 2439 MHz	160.22 mW	< 1 W	N/A
High Channel 2464 MHz	157.219 mW	< 1 W	N/A

Chain 1,2				
2400 MHz - 2483.5 MHz Band				
2.5MHz Bandwidth	Chain 1 (mw)	Chain 2 (mw)	Summed Power (mW)	
2x2 Modulation Type, BPSK, Coding Ra				
Low Channel 2403 MHz	264.789	239.773	504.562	Pass
Mid Channel 2435 MHz	168.229	183.358	351.587	Pass
High Channel 2470 MHz	263.451	193.776	457.227	Pass
2x2 Modulation Type, 64-QAM, Coding				
Low Channel 2403 MHz	243.164	248.313	491.477	Pass
Mid Channel 2435 MHz	205.968	244.737	450.705	Pass
High Channel 2470 MHz	247.514	229.615	477.129	Pass
5MHz Bandwidth				
2x2 Modulation Type, BPSK, Coding Rate, 1/2.				
Low Channel 2406 MHz	191.249	159.111	350.360	Pass
Mid Channel 2436 MHz	151.705	117.004	268.709	Pass
High Channel 2466 MHz	119.784	133.937	253.721	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.				
Low Channel 2406 MHz	276.630	164.854	441.484	Pass
Mid Channel 2436 MHz	121.983	90.282	212.265	Pass
High Channel 2466 MHz	103.015	90.511	193.526	Pass
10MHz Bandwidth				
2x2 Modulation Type, BPSK, Coding Rate, 1/2.				
Low Channel 2409 MHz	269.383	199.845	469.228	Pass
Mid Channel 2439 MHz	202.676	162.281	364.957	Pass
High Channel 2464 MHz	173.767	152.648	326.415	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.				
Low Channel 2409 MHz	260.557	188.579	449.136	Pass
Mid Channel 2439 MHz	194.174	160.220	354.394	Pass
High Channel 2464 MHz	164.370	157.219	321.589	Pass

OUTPUT POWER - 2x2 MIMO

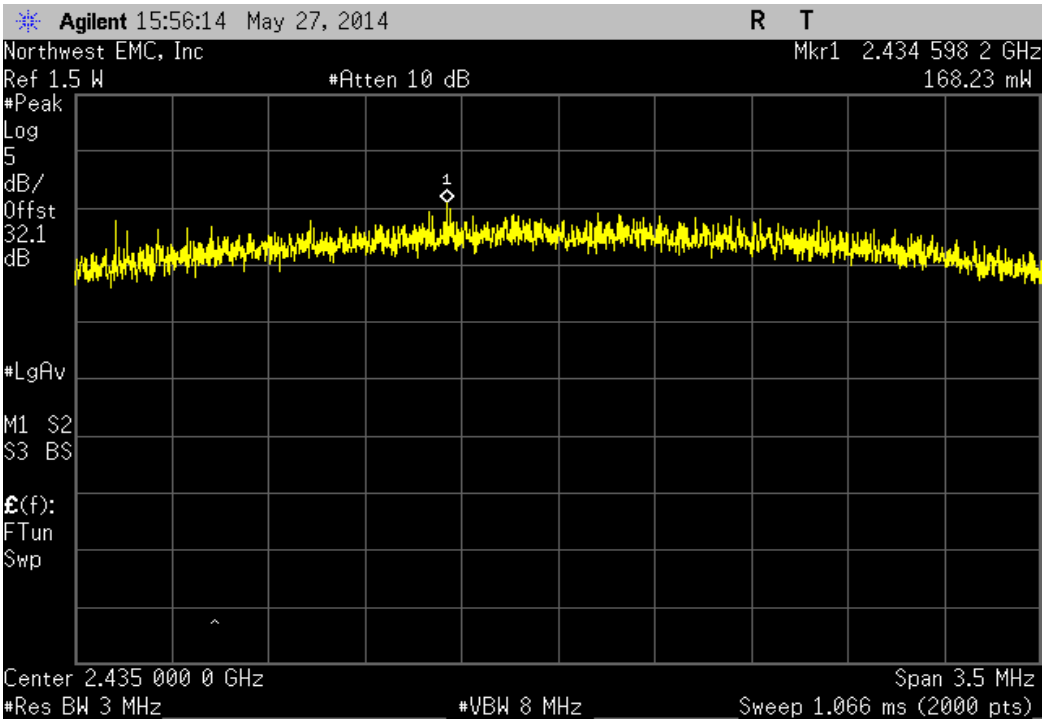
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				264.789 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

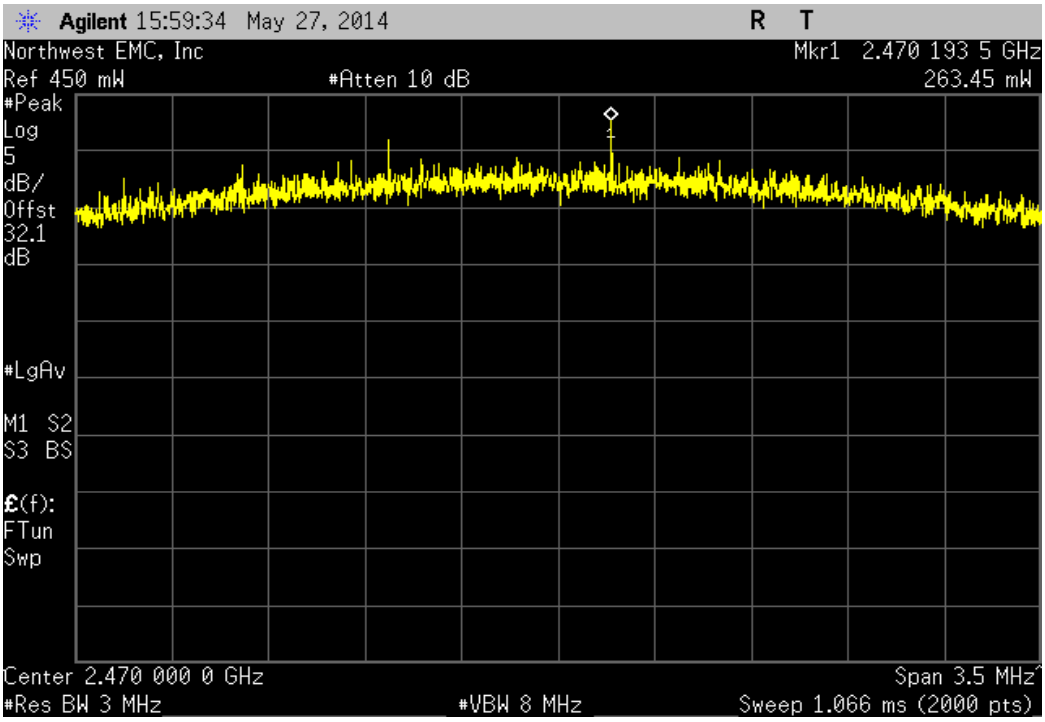
				Value	Limit	Result
				168.229 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

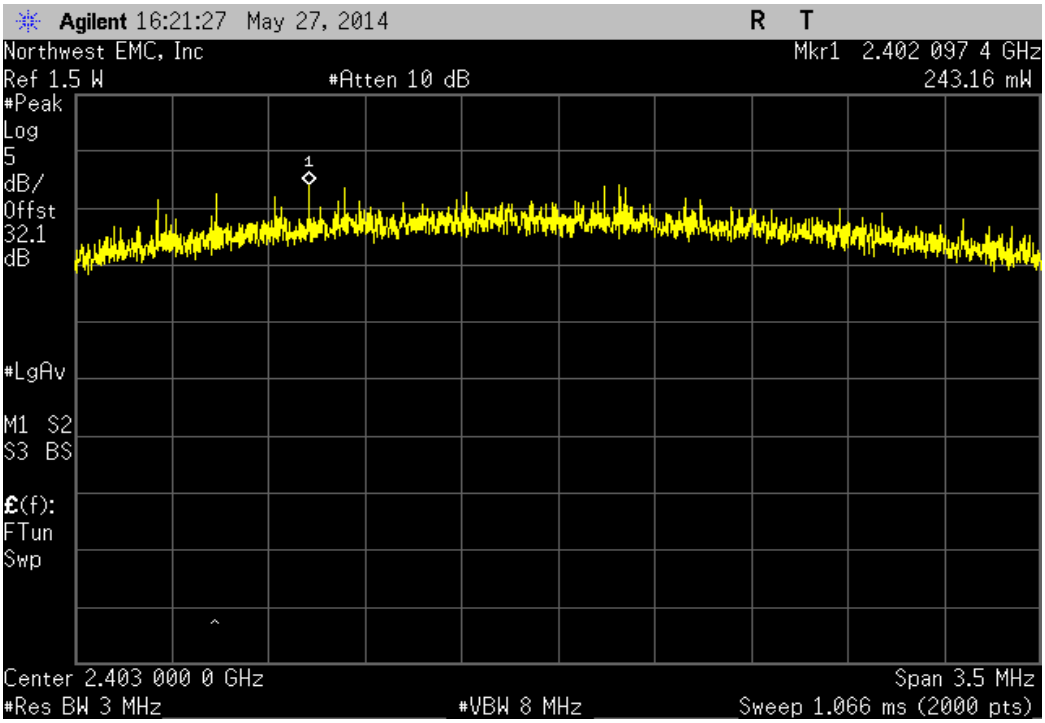
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				263.451 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

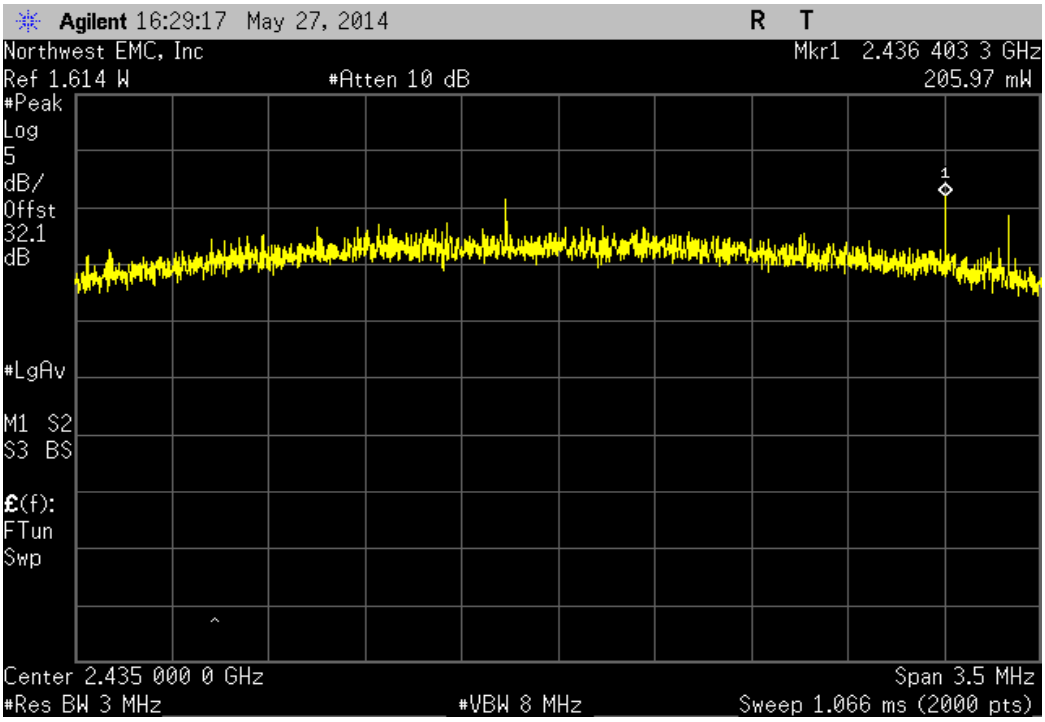
				Value	Limit	Result
				243.164 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

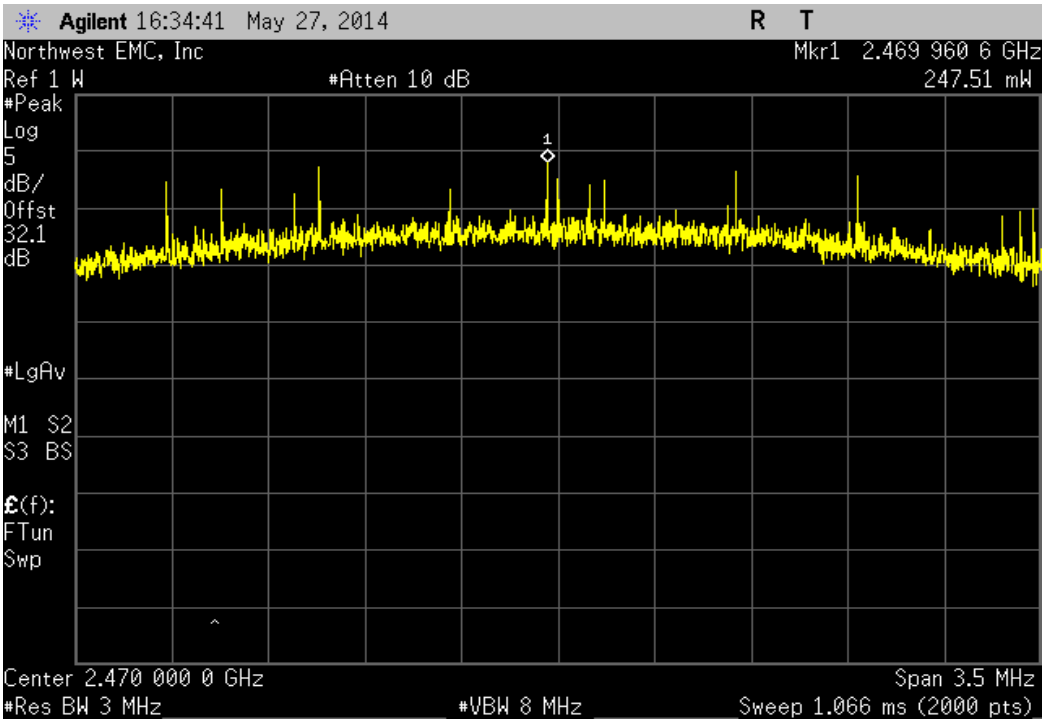
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

				Value	Limit	Result
				205.968 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

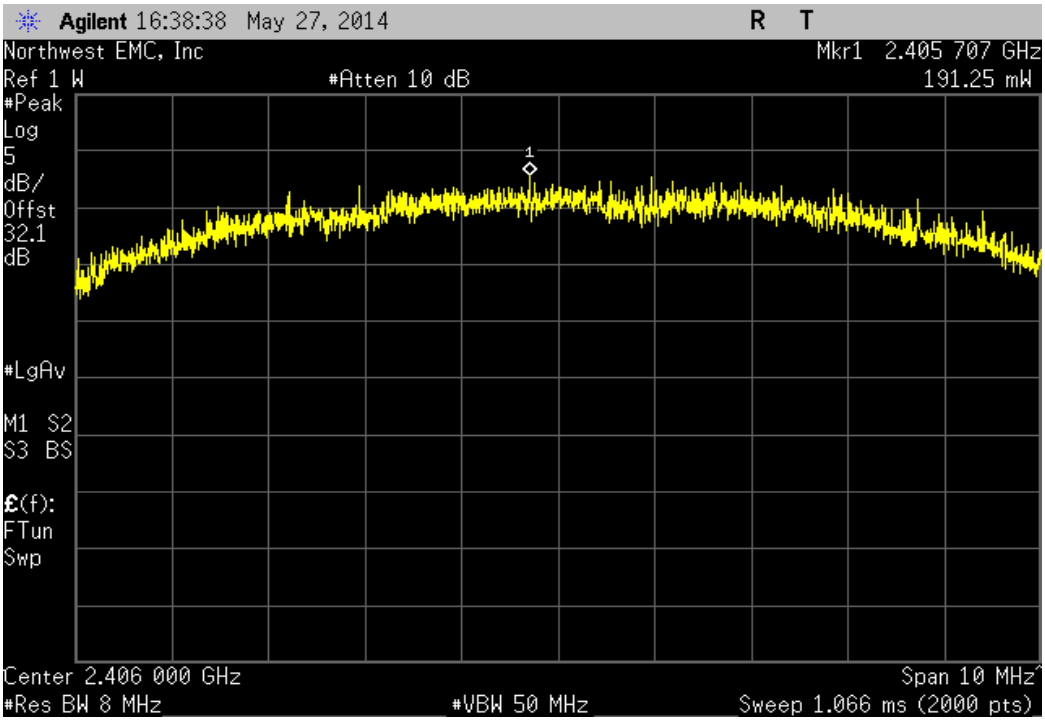
				Value	Limit	Result
				247.514 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

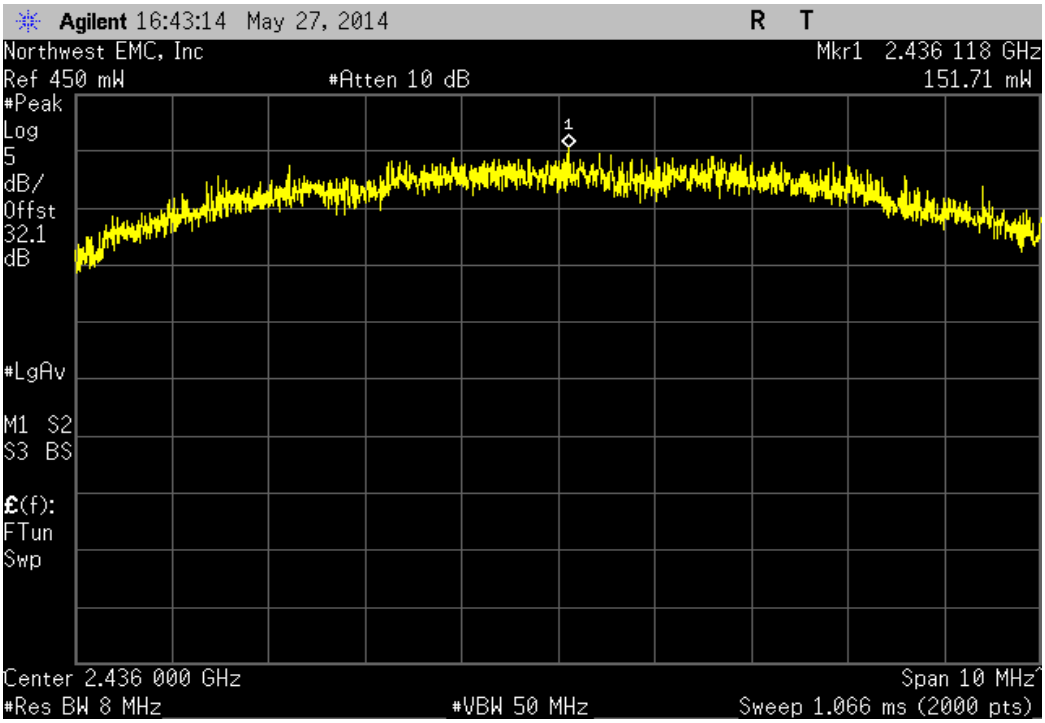
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

				Value	Limit	Result
				191.249 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

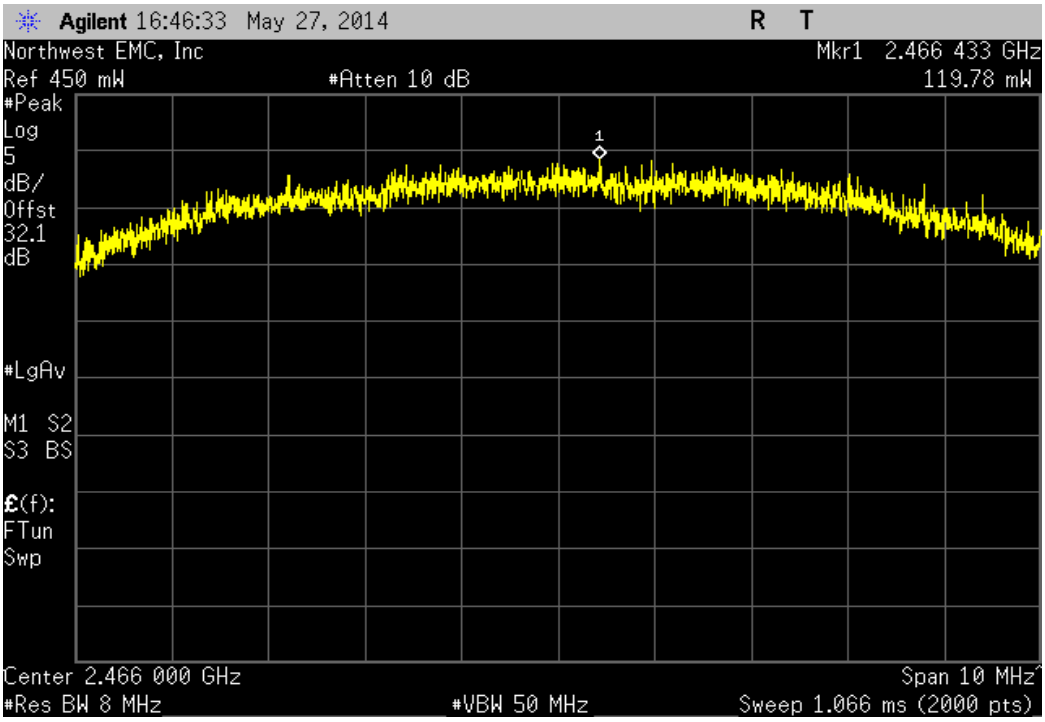
				Value	Limit	Result
				151.705 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

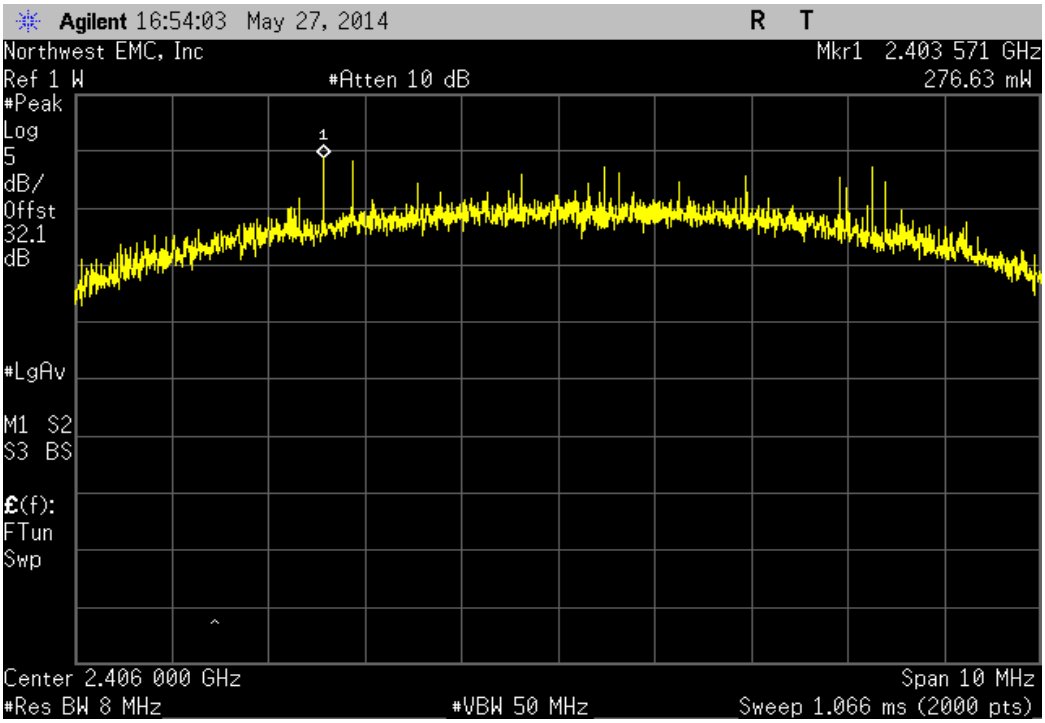
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

				Value	Limit	Result
				119.784 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

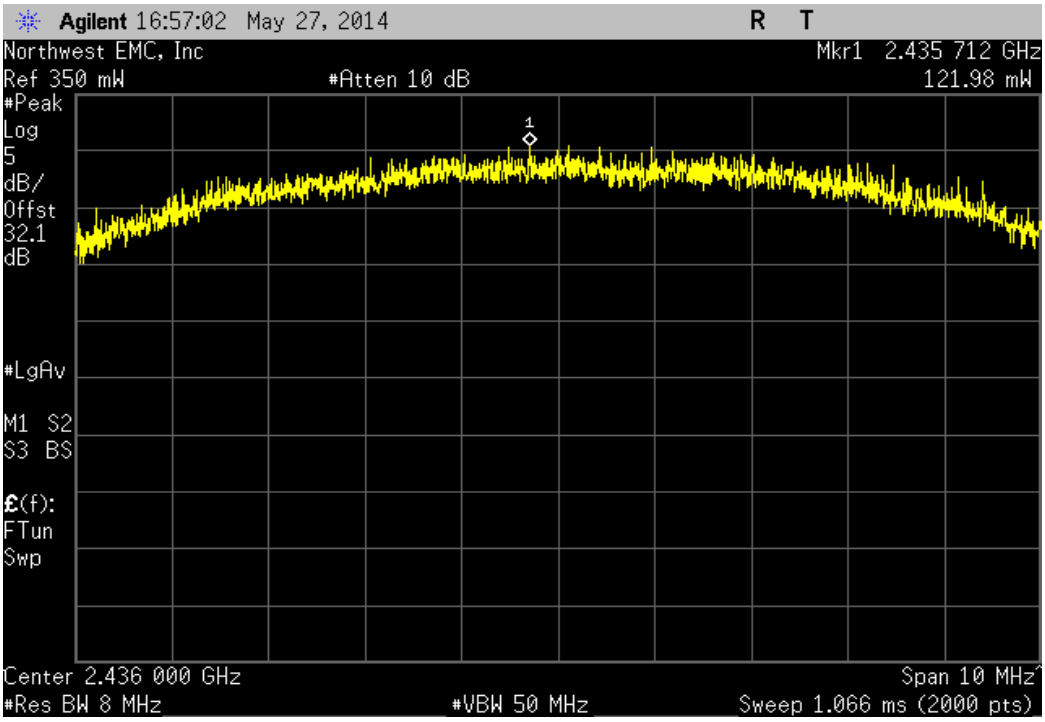
				Value	Limit	Result
				276.63 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

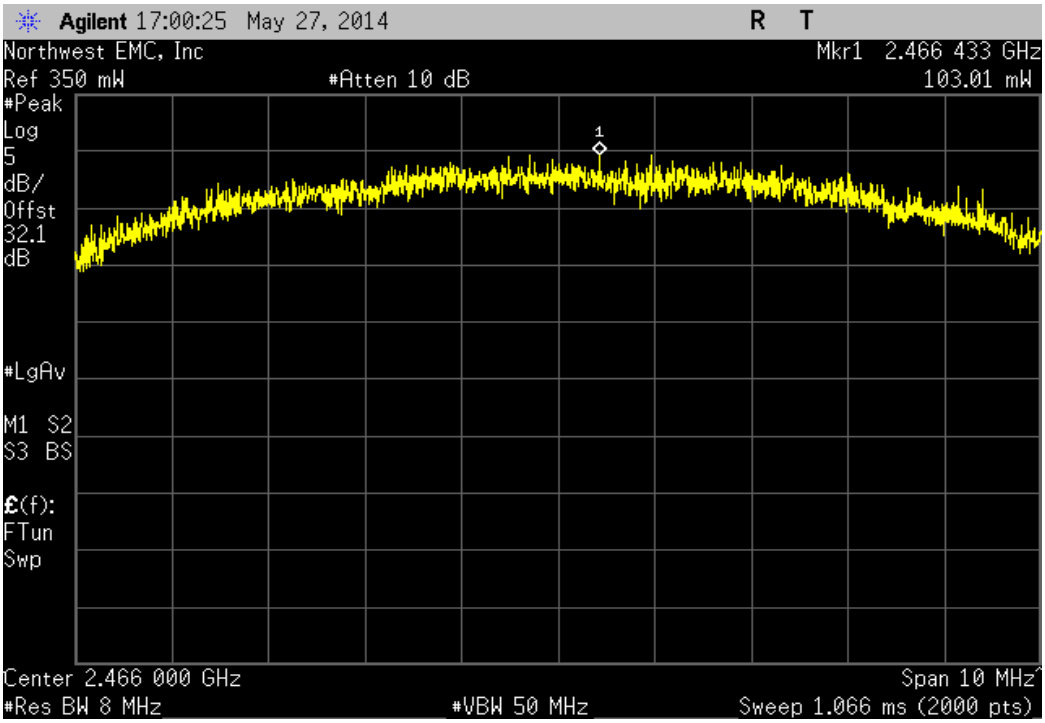
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				121.983 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

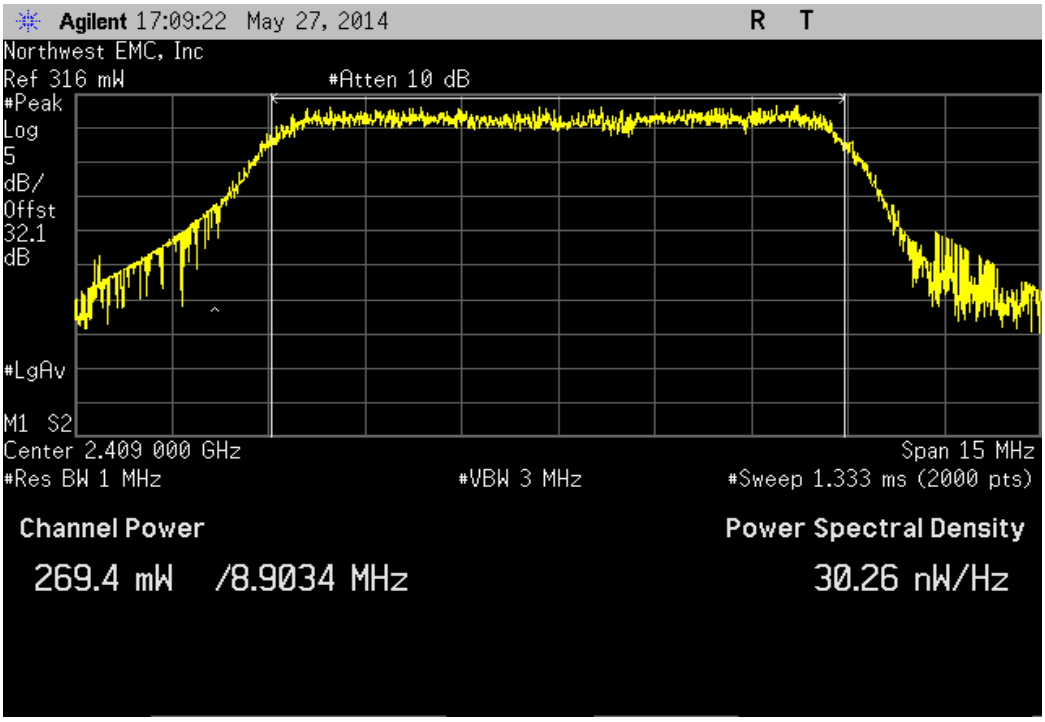
				Value	Limit	Result
				103.015 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

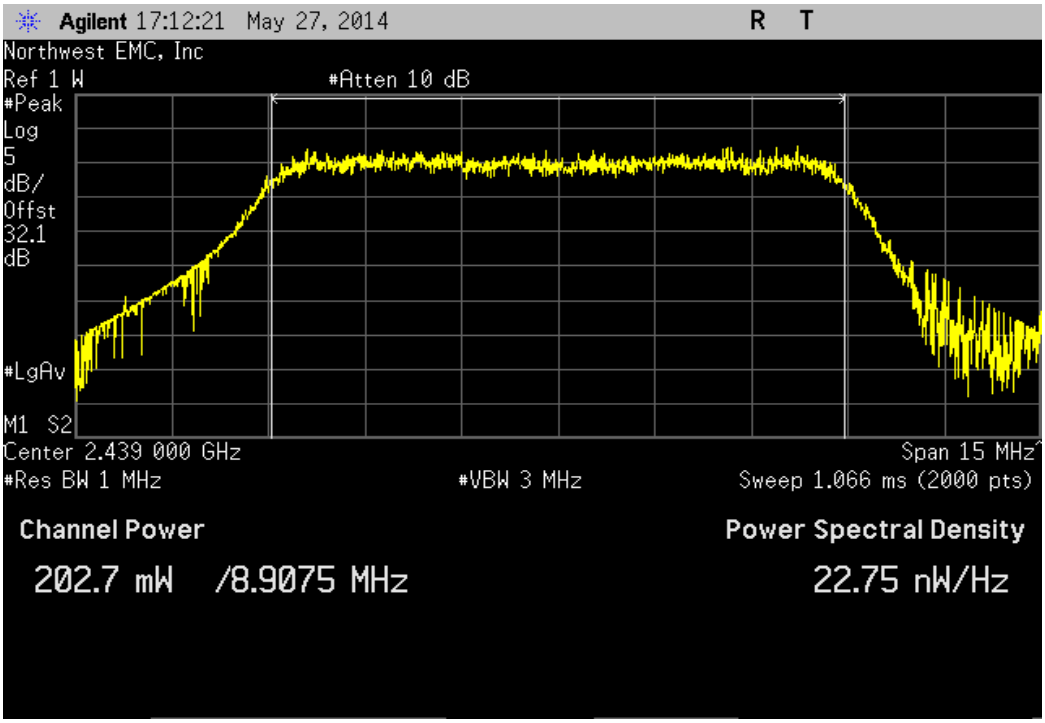
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

				Value	Limit	Result
				269.383 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

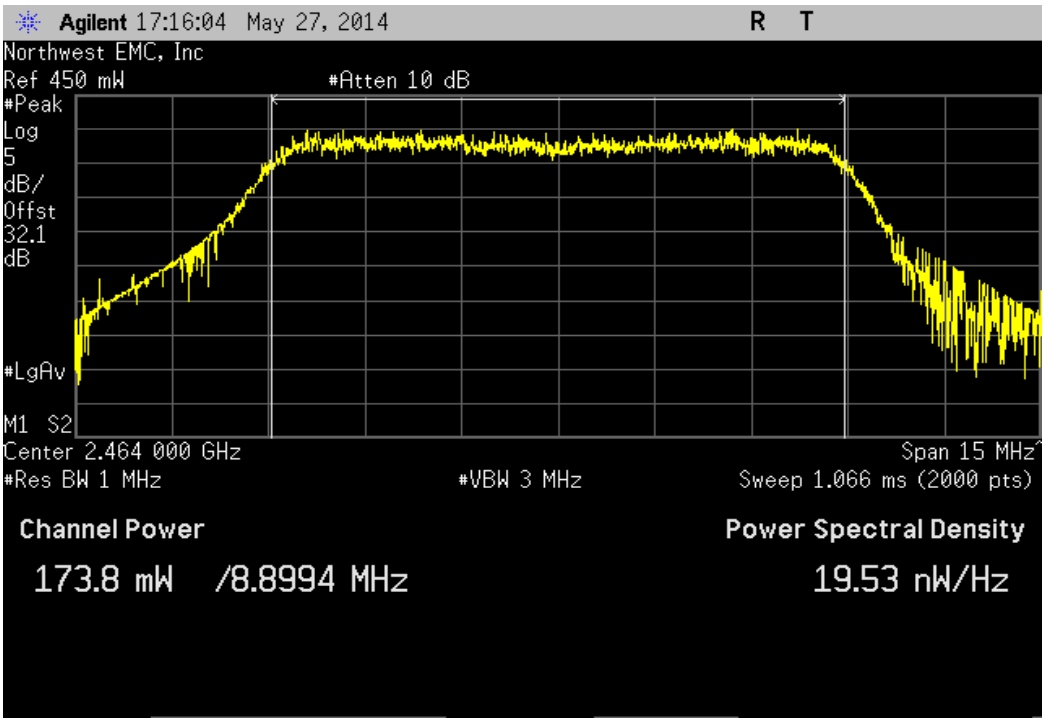
				Value	Limit	Result
				202.676 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

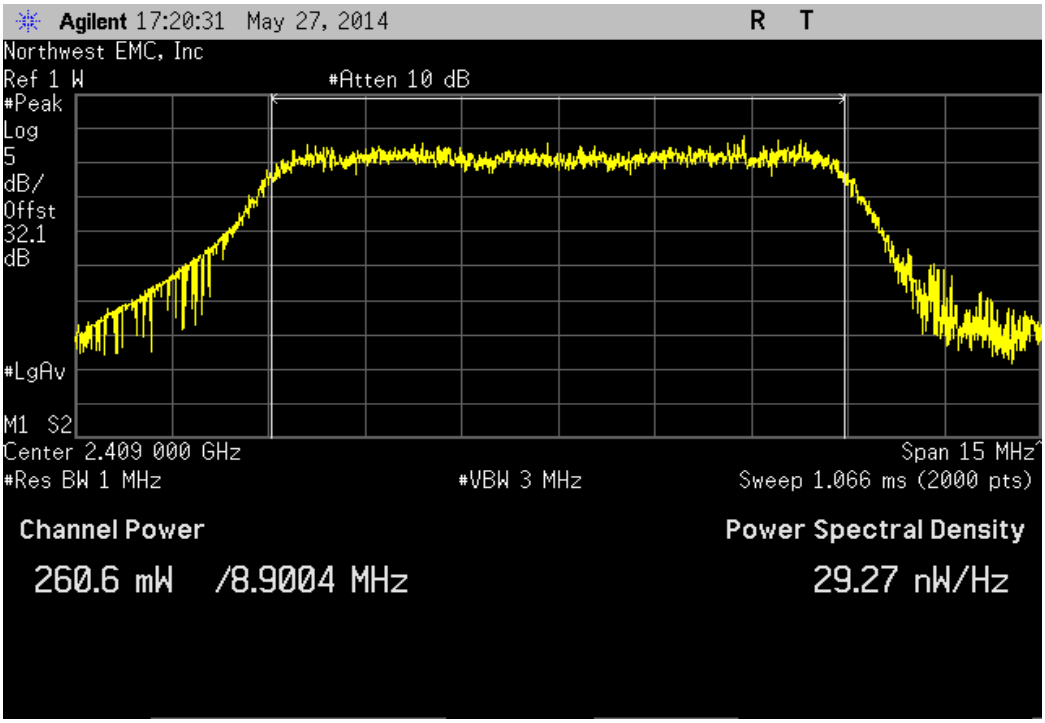
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

				Value	Limit	Result
				173.767 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

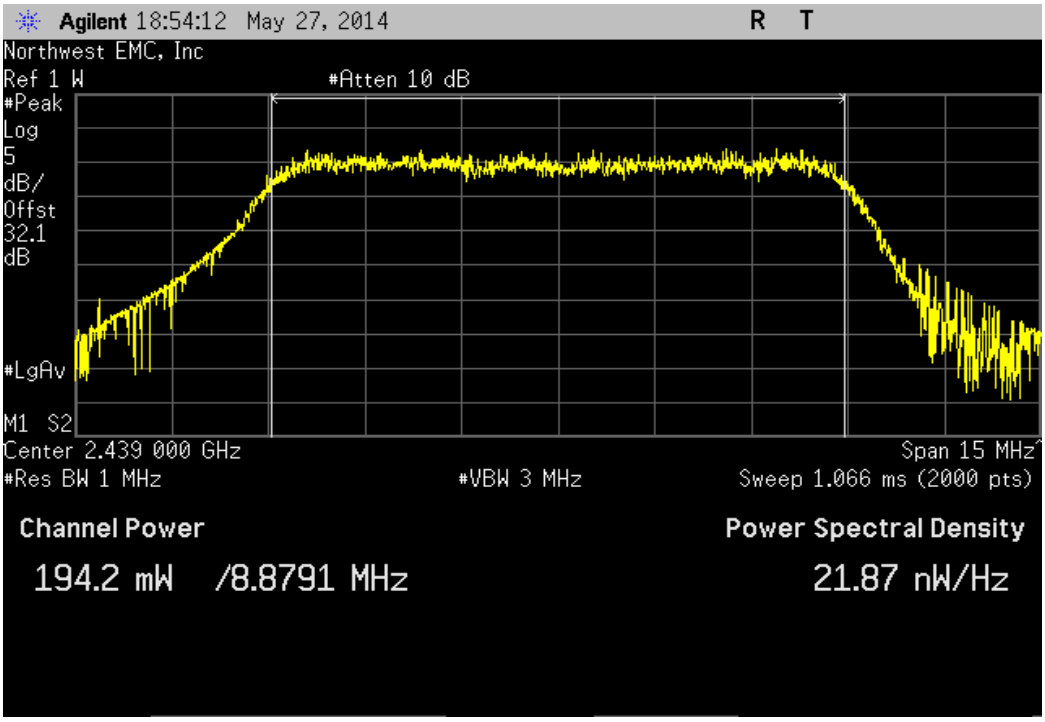
				Value	Limit	Result
				260.557 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

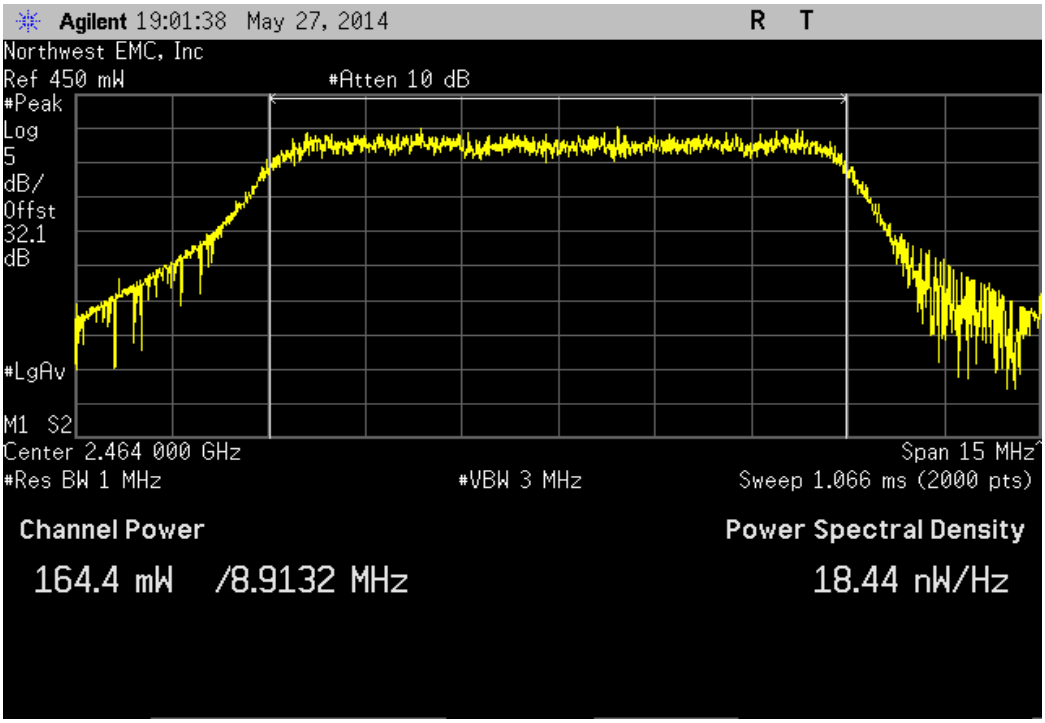
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				194.174 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

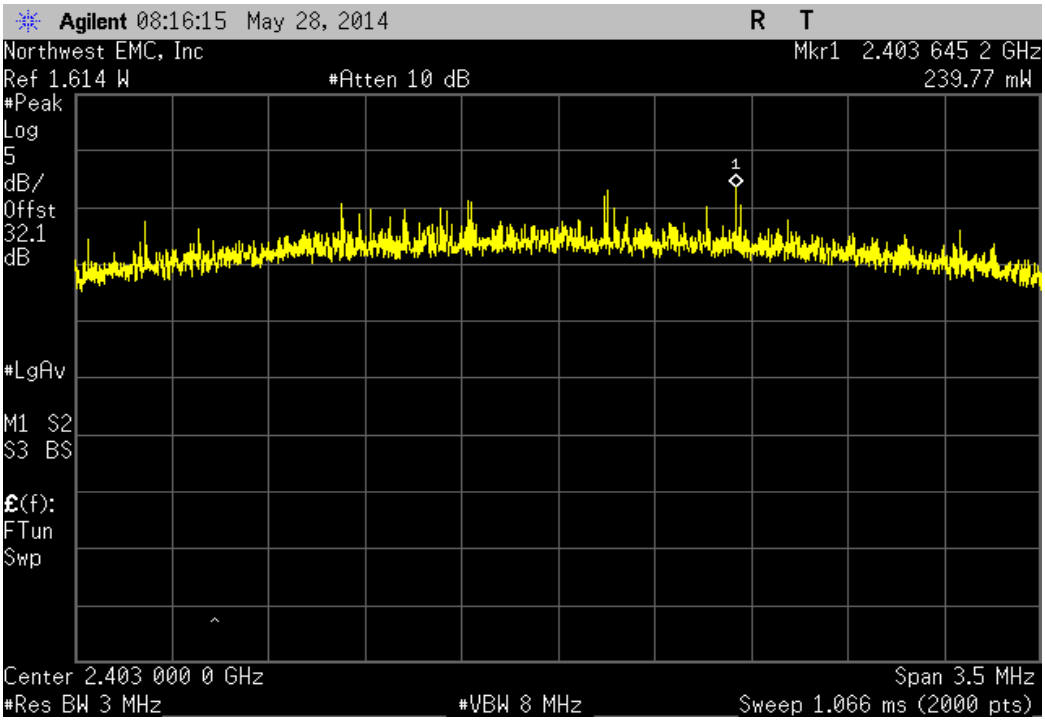
				Value	Limit	Result
				164.37 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

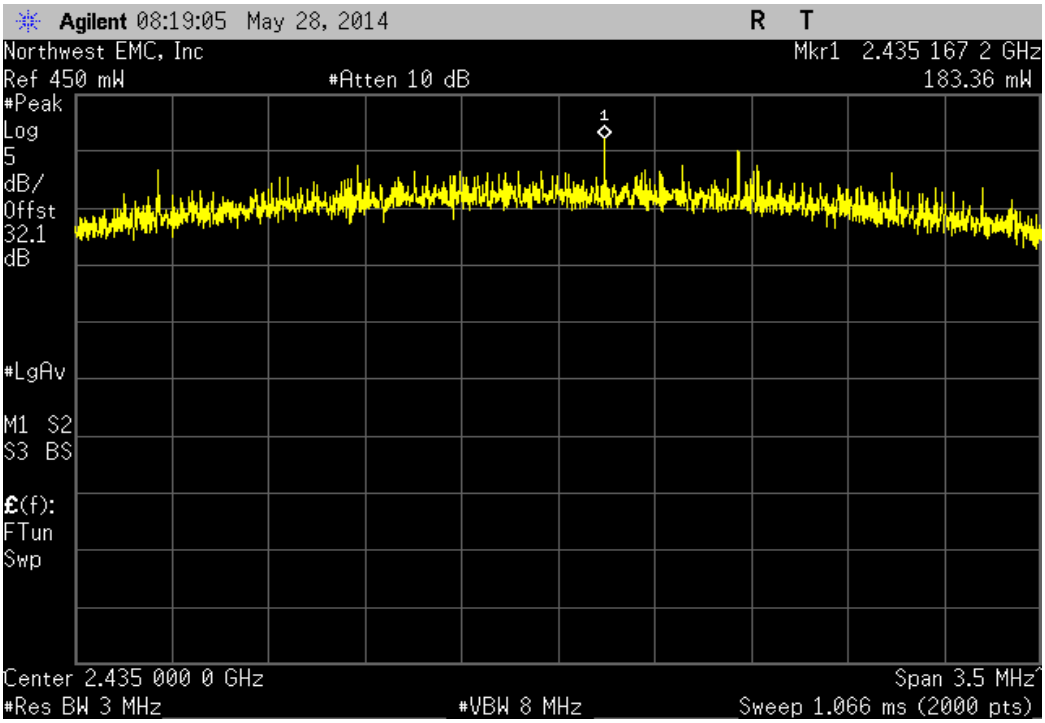
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

				Value	Limit	Result
				239.773 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

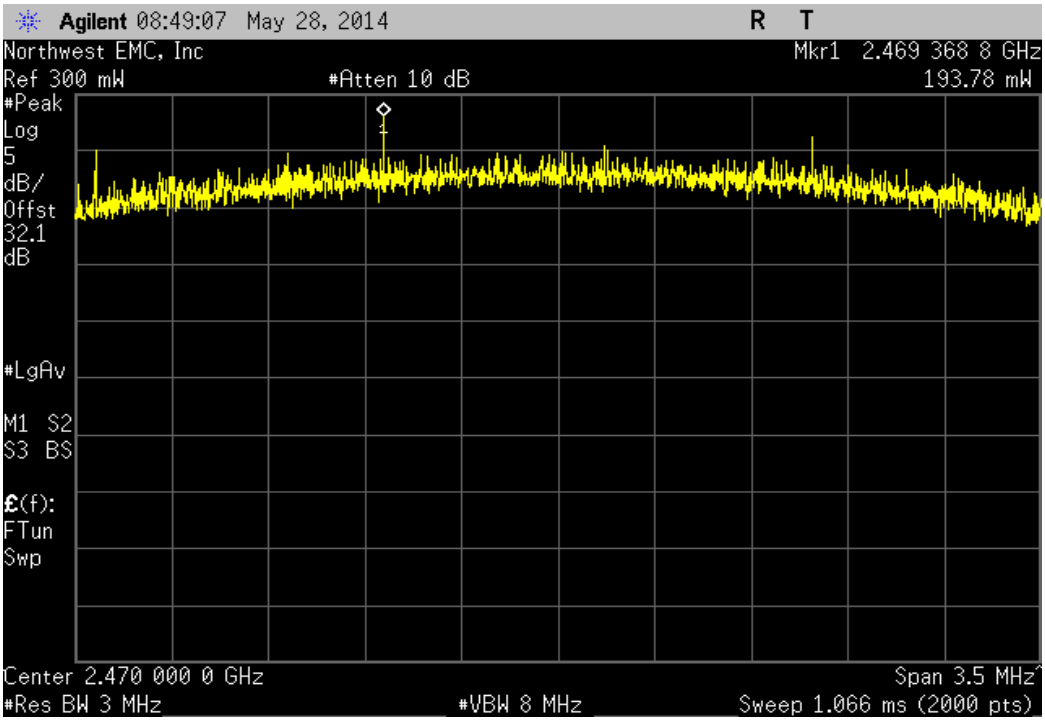
				Value	Limit	Result
				183.358 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

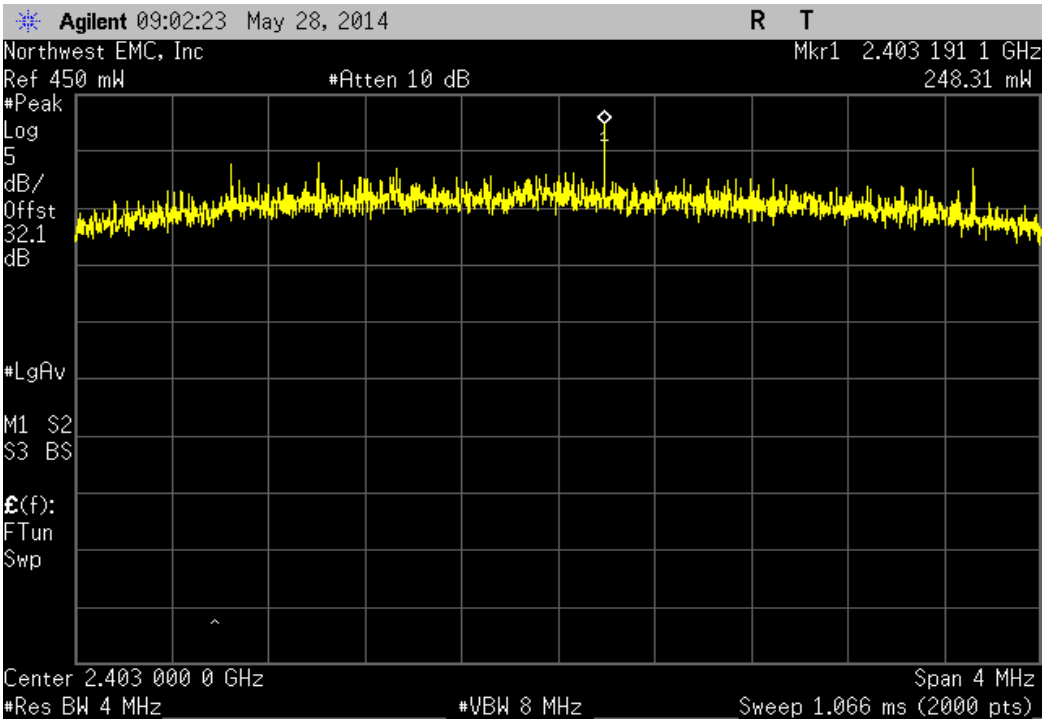
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz

				Value	Limit	Result
				193.776 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz

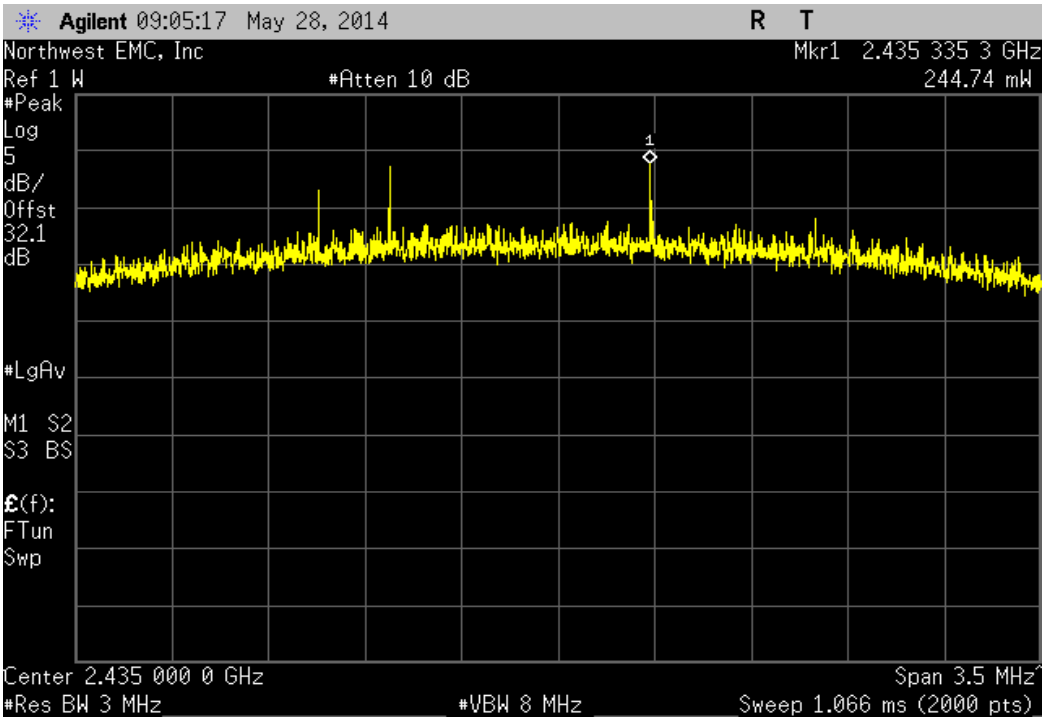
				Value	Limit	Result
				248.313 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

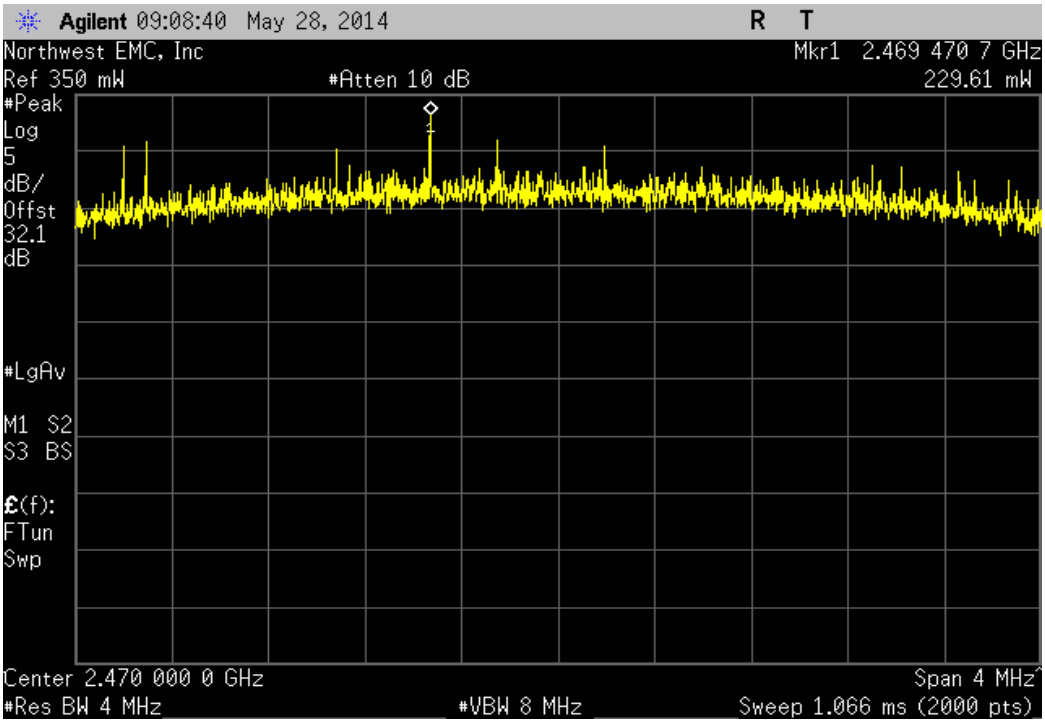
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz

				Value	Limit	Result
				244.737 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz

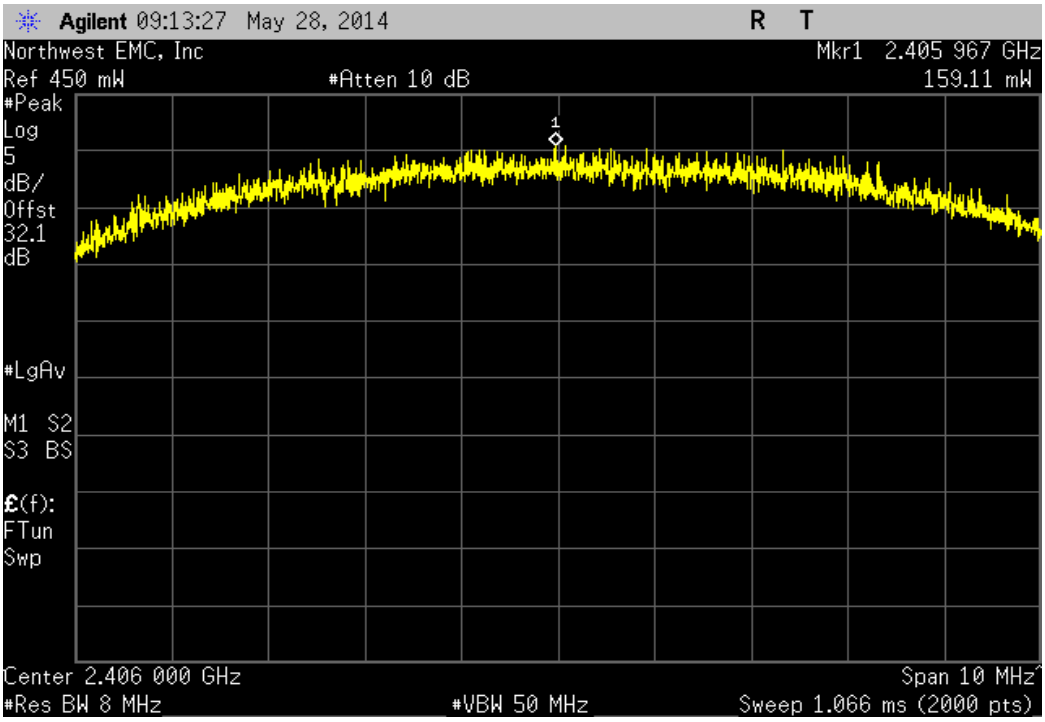
				Value	Limit	Result
				229.615 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

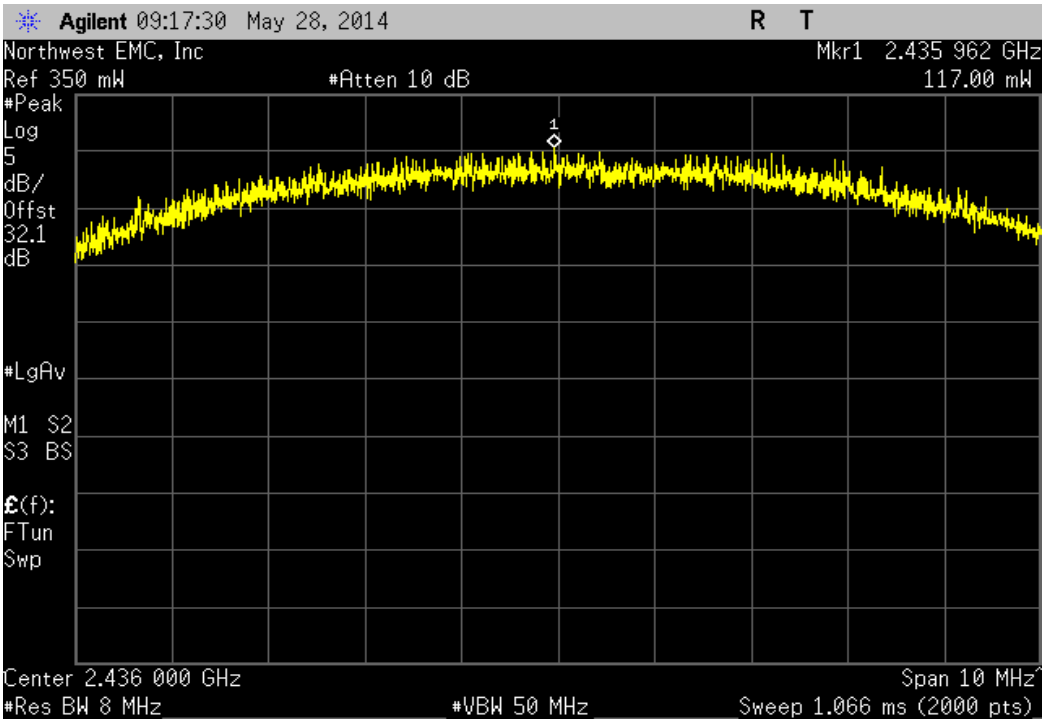
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz

				Value	Limit	Result
				159.111 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz

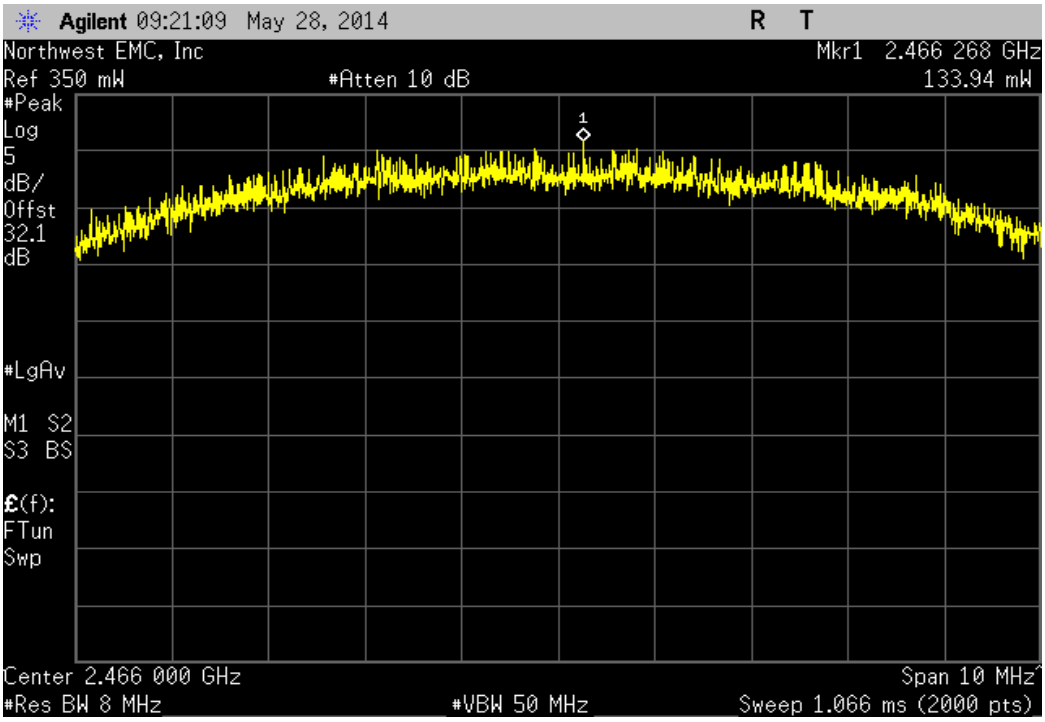
				Value	Limit	Result
				117.004 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

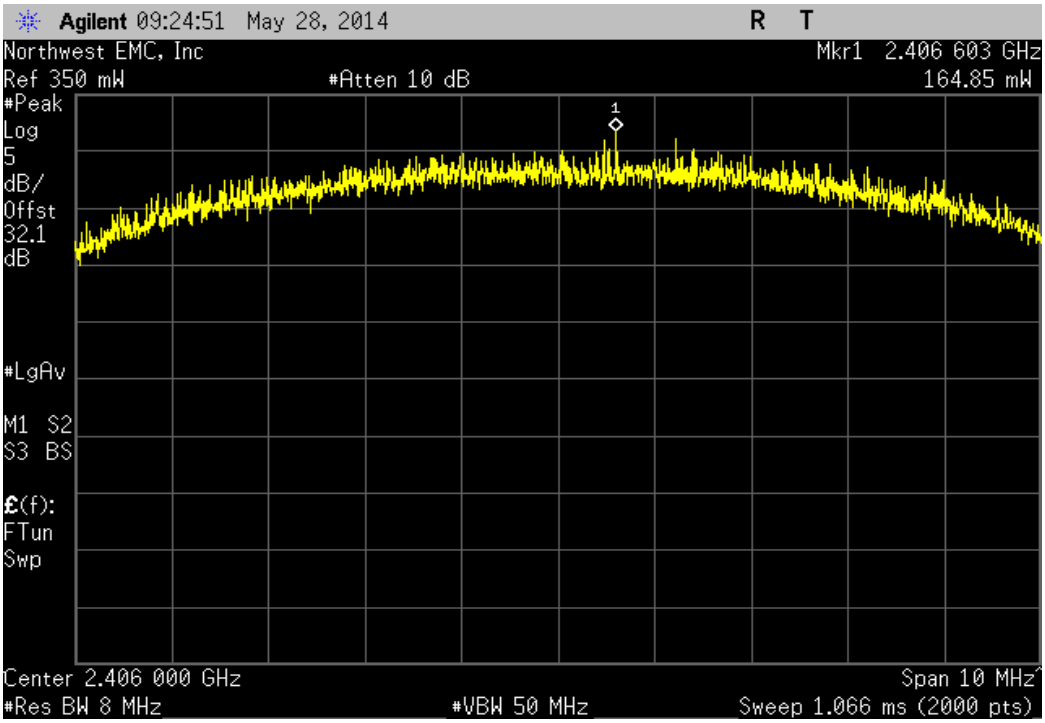
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz

				Value	Limit	Result
				133.937 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz

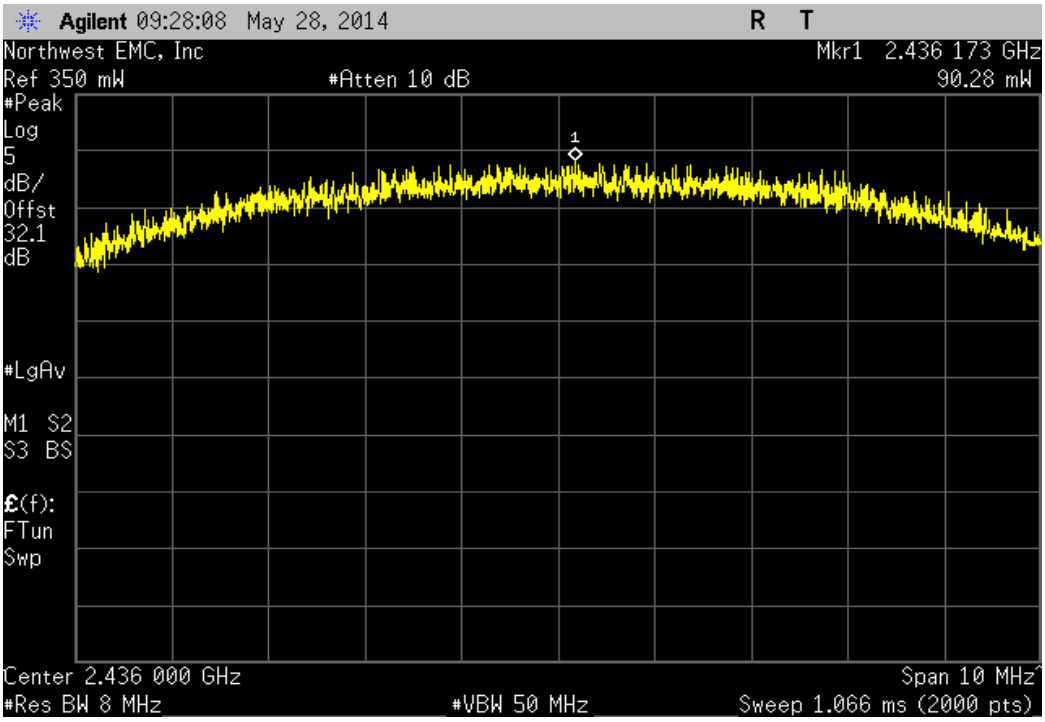
				Value	Limit	Result
				164.854 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

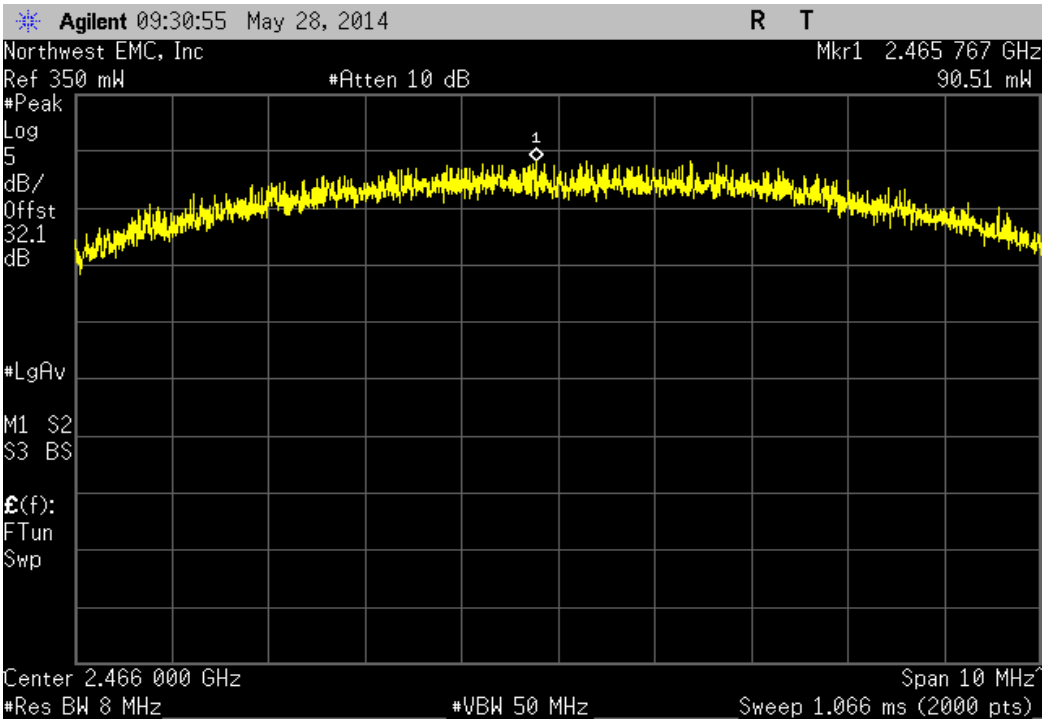
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz

				Value	Limit	Result
				90.282 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz

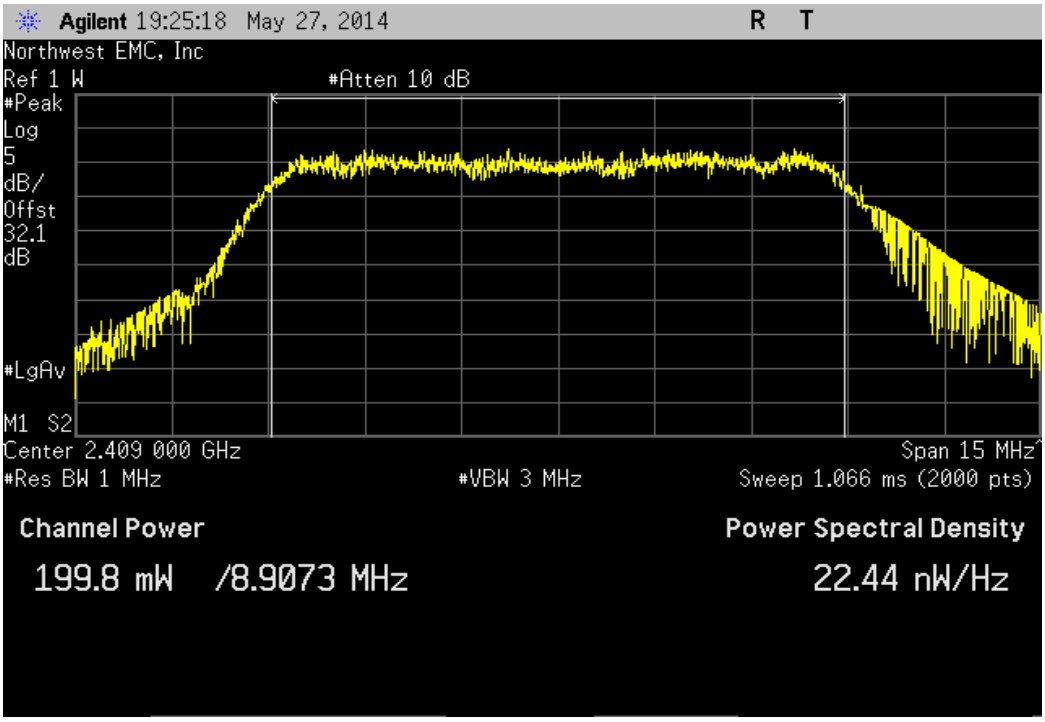
				Value	Limit	Result
				90.511 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

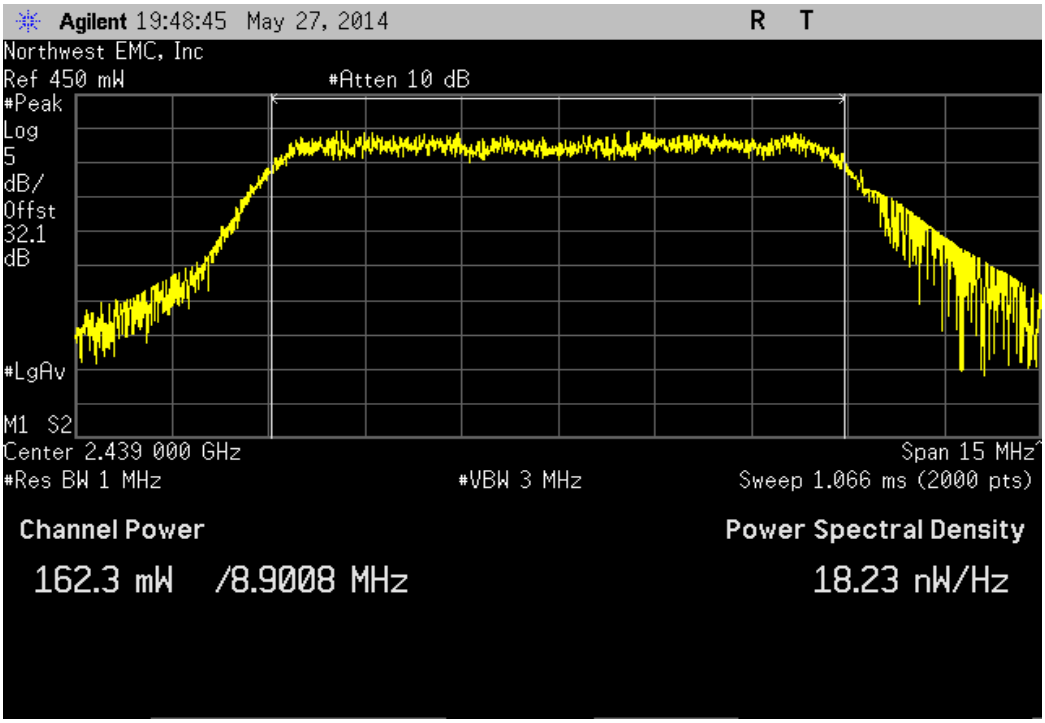
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz

				Value	Limit	Result
				199.845 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz

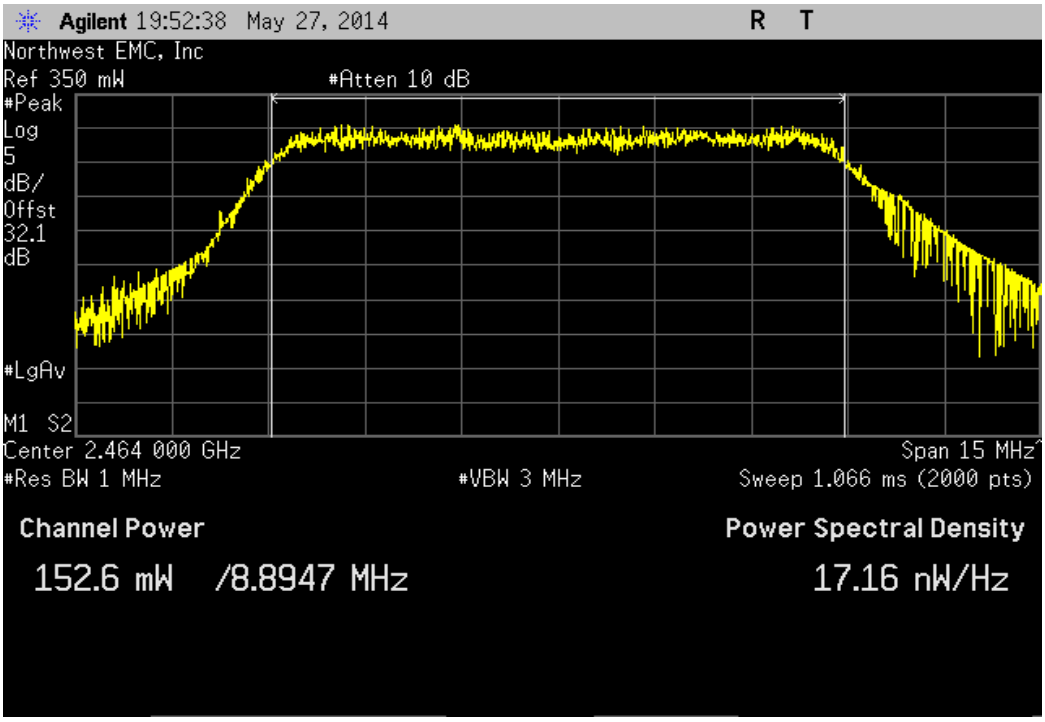
				Value	Limit	Result
				162.281 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

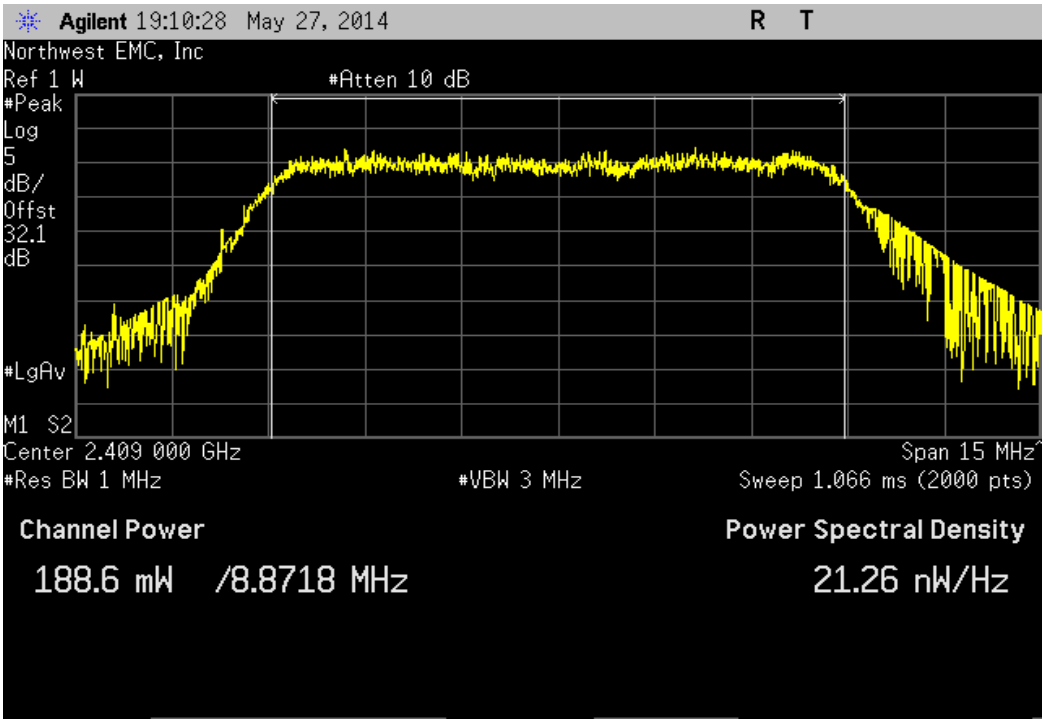
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz

				Value	Limit	Result
				152.648 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz

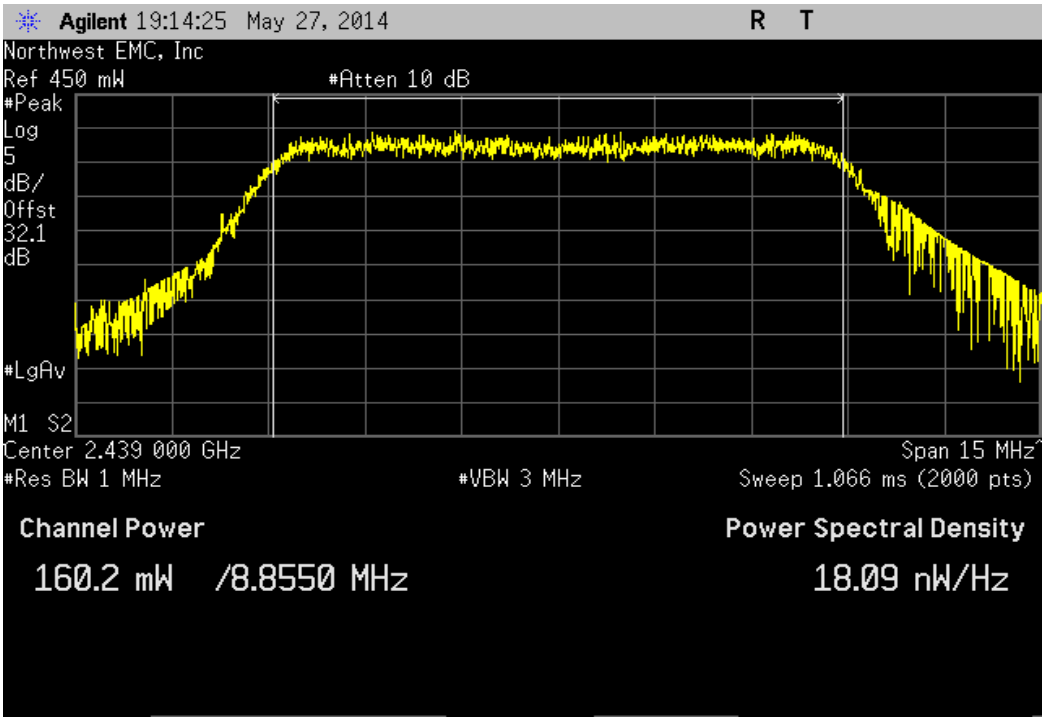
				Value	Limit	Result
				188.579 mW	< 1 W	Pass



OUTPUT POWER - 2x2 MIMO

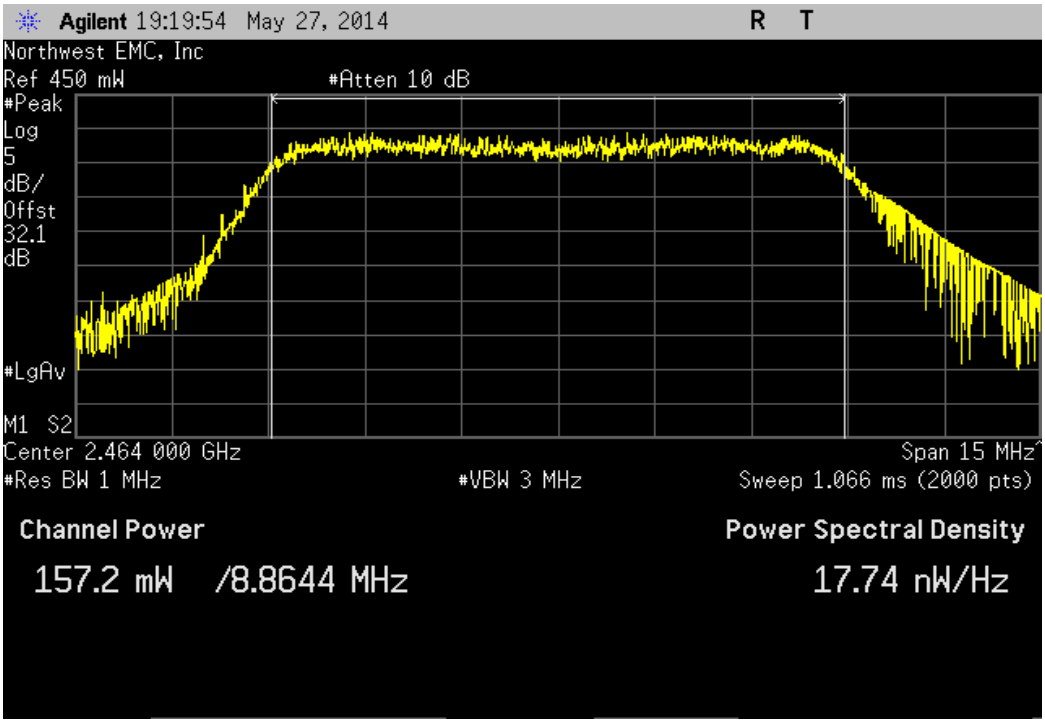
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz

				Value	Limit	Result
				160.22 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz

				Value	Limit	Result
				157.219 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method found in KDB 558074 DTS D01 Measurement Section 9.1.1 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.

OUTPUT POWER - 3x3 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Job Site:	EV06
Power:	12 VDC		

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

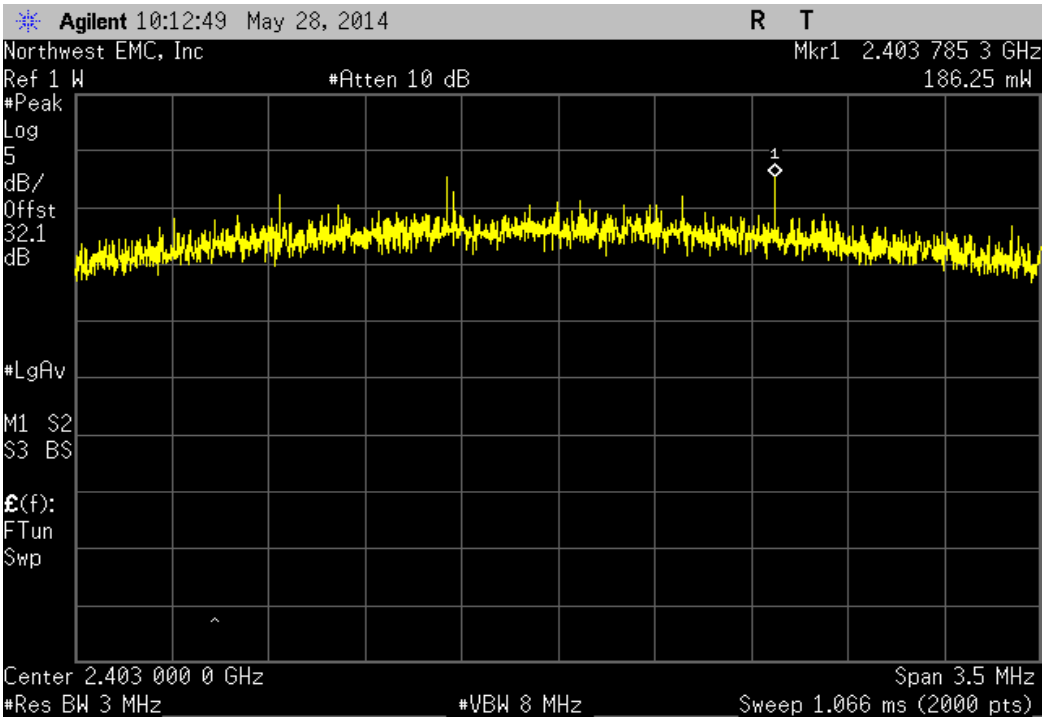
	Value	Limit	Result
Chain 1			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2403 MHz	186.252 mW	< 1 W	Pass
Mid Channel 2435 MHz	102.07 mW	< 1 W	Pass
High Channel 2470 MHz	150.834 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2403 MHz	180.385 mW	< 1 W	Pass
Mid Channel 2435 MHz	105.512 mW	< 1 W	Pass
High Channel 2470 MHz	166.226 mW	< 1 W	Pass
5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2406 MHz	155.919 mW	< 1 W	Pass
Mid Channel 2436 MHz	95.653 mW	< 1 W	Pass
High Channel 2466 MHz	78.379 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2406 MHz	115.585 mW	< 1 W	Pass
Mid Channel 2436 MHz	92.555 mW	< 1 W	Pass
High Channel 2466 MHz	96.872 mW	< 1 W	Pass
10MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2409 MHz	133.018 mW	< 1 W	Pass
Mid Channel 2439 MHz	105.543 mW	< 1 W	Pass
High Channel 2464 MHz	91.687 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2409 MHz	144.878 mW	< 1 W	Pass
Mid Channel 2439 MHz	106.544 mW	< 1 W	Pass
High Channel 2464 MHz	88.828 mW	< 1 W	Pass
Chain 2			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2403 MHz	117.46 mW	< 1 W	Pass
Mid Channel 2435 MHz	86.656 mW	< 1 W	Pass
High Channel 2470 MHz	91.306 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2403 MHz	112.176 mW	< 1 W	Pass
Mid Channel 2435 MHz	88.512 mW	< 1 W	Pass
High Channel 2470 MHz	89.31 mW	< 1 W	Pass
5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2406 MHz	153.426 mW	< 1 W	Pass
Mid Channel 2436 MHz	108.768 mW	< 1 W	Pass
High Channel 2466 MHz	107.622 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2406 MHz	157.181 mW	< 1 W	Pass
Mid Channel 2436 MHz	114.446 mW	< 1 W	Pass
High Channel 2466 MHz	114.683 mW	< 1 W	Pass
10MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2409 MHz	110.013 mW	< 1 W	Pass
Mid Channel 2439 MHz	89.28 mW	< 1 W	Pass
High Channel 2464 MHz	82.663 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2409 MHz	108.646 mW	< 1 W	Pass
Mid Channel 2439 MHz	89.513 mW	< 1 W	Pass
High Channel 2464 MHz	88.111 mW	< 1 W	Pass
Chain 3			
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2403 MHz	87.963 mW	< 1 W	Pass
Mid Channel 2435 MHz	97.836 mW	< 1 W	Pass
High Channel 2470 MHz	101.228 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2403 MHz	92.13 mW	< 1 W	Pass
Mid Channel 2435 MHz	99.885 mW	< 1 W	Pass
High Channel 2470 MHz	96.561 mW	< 1 W	Pass
5MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2406 MHz	107.004 mW	< 1 W	Pass
Mid Channel 2436 MHz	123.055 mW	< 1 W	Pass
High Channel 2466 MHz	115.585 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2406 MHz	109.85 mW	< 1 W	Pass
Mid Channel 2436 MHz	119.564 mW	< 1 W	Pass
High Channel 2466 MHz	114.393 mW	< 1 W	Pass
10MHz Bandwidth			
802.11(n) MCS16			
Low Channel 2409 MHz	88.226 mW	< 1 W	Pass
Mid Channel 2439 MHz	87.474 mW	< 1 W	Pass
High Channel 2464 MHz	78.166 mW	< 1 W	Pass
802.11(n) MCS23			
Low Channel 2409 MHz	87.947 mW	< 1 W	Pass
Mid Channel 2439 MHz	88.144 mW	< 1 W	Pass
High Channel 2464 MHz	80.001 mW	< 1 W	Pass

Chain 1,2,3						
2400 MHz - 2483.5 MHz Band		**Chain 1**	**Chain 2**	**Chain 3**	**Summed Power**	
2.5MHz Bandwidth						
802.11(n) MCS16		(mW)	(mW)	(mW)	(mW)	
	Low Channel 2403 MHz	186.252000	117.460000	87.963000	391.675000	Pass
	Mid Channel 2435 MHz	102.070000	86.656000	97.836000	286.562000	Pass
	High Channel 2470 MHz	150.834000	91.306000	101.228000	343.368000	Pass
802.11(n) MCS23						
	Low Channel 2403 MHz	180.385000	112.176000	92.130000	384.691000	Pass
	Mid Channel 2435 MHz	105.512000	88.512000	99.885000	293.909000	Pass
	High Channel 2470 MHz	166.226000	89.310000	96.561000	352.097000	Pass
5MHz Bandwidth						
802.11(n) MCS16						
	Low Channel 2406 MHz	155.919000	153.426000	107.004000	416.349000	Pass
	Mid Channel 2436 MHz	95.653000	108.768000	123.055000	327.476000	Pass
	High Channel 2466 MHz	78.379000	107.622000	115.585000	301.586000	Pass
802.11(n) MCS23						
	Low Channel 2406 MHz	115.585000	157.181000	109.850000	382.616000	Pass
	Mid Channel 2436 MHz	92.555000	114.446000	119.564000	326.565000	Pass
	High Channel 2466 MHz	96.872000	114.683000	114.393000	325.948000	Pass
10MHz Bandwidth						
802.11(n) MCS16						
	Low Channel 2409 MHz	133.018000	110.013000	88.226000	331.257000	Pass
	Mid Channel 2439 MHz	105.543000	89.280000	87.474000	282.297000	Pass
	High Channel 2464 MHz	91.687000	82.663000	78.166000	252.516000	Pass
802.11(n) MCS23						
	Low Channel 2409 MHz	144.878000	108.646000	87.947000	341.471000	Pass
	Mid Channel 2439 MHz	106.544000	89.513000	88.144000	284.201000	Pass
	High Channel 2464 MHz	88.828000	88.111000	80.001000	256.940000	Pass

OUTPUT POWER - 3x3 MIMO

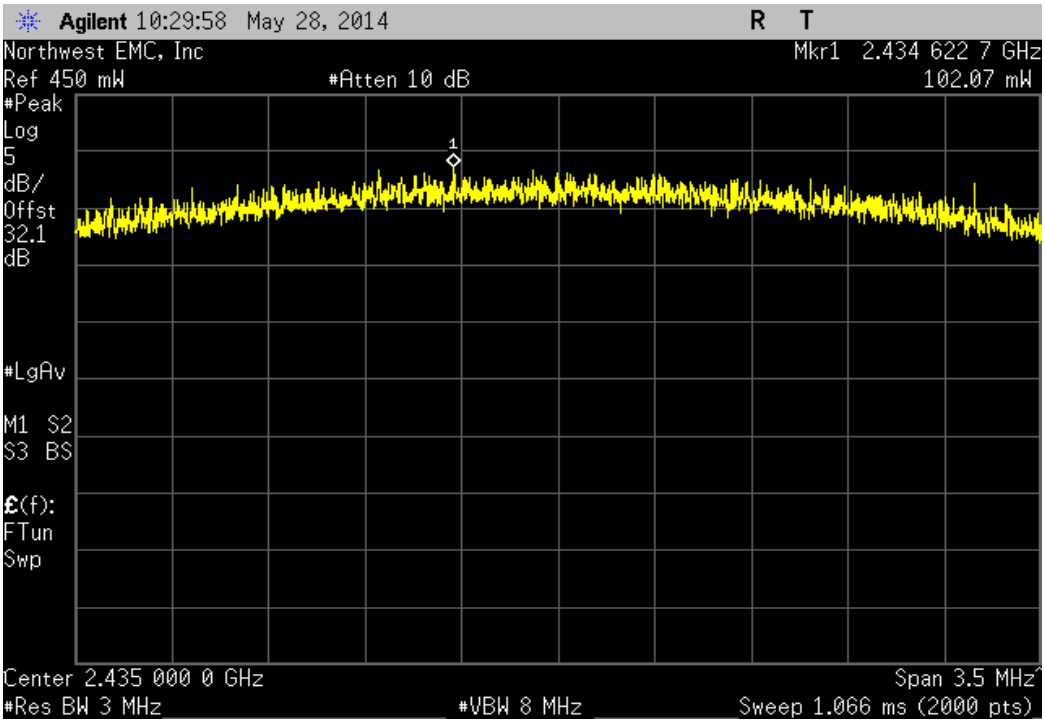
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2403 MHz

				Value	Limit	Result
				186.252 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2435 MHz

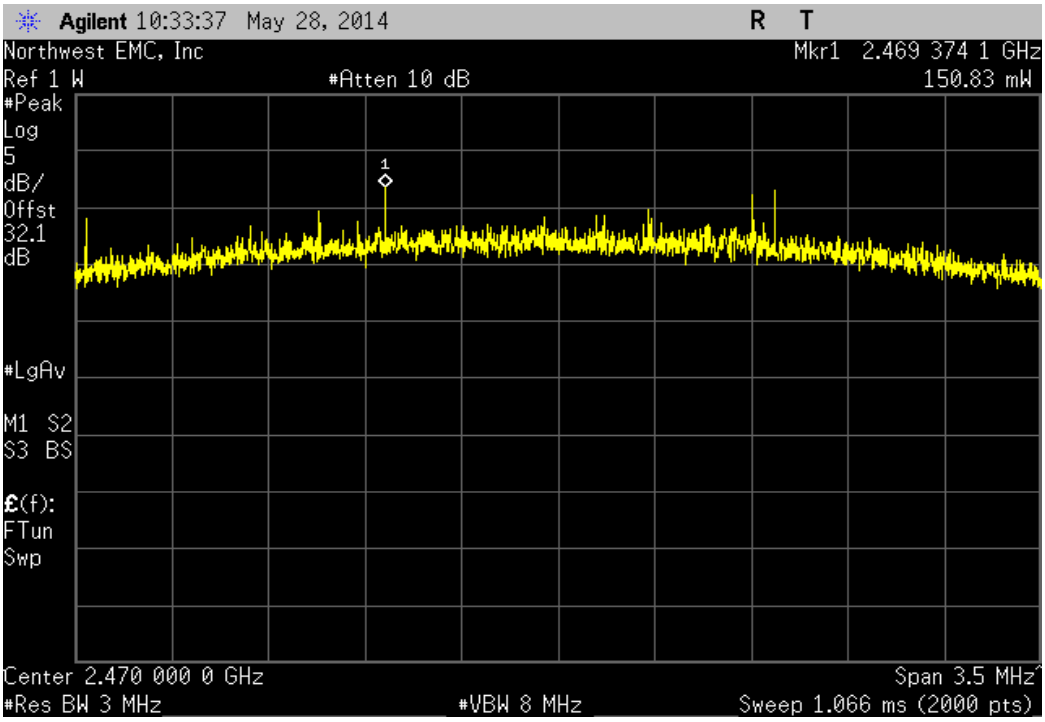
				Value	Limit	Result
				102.07 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

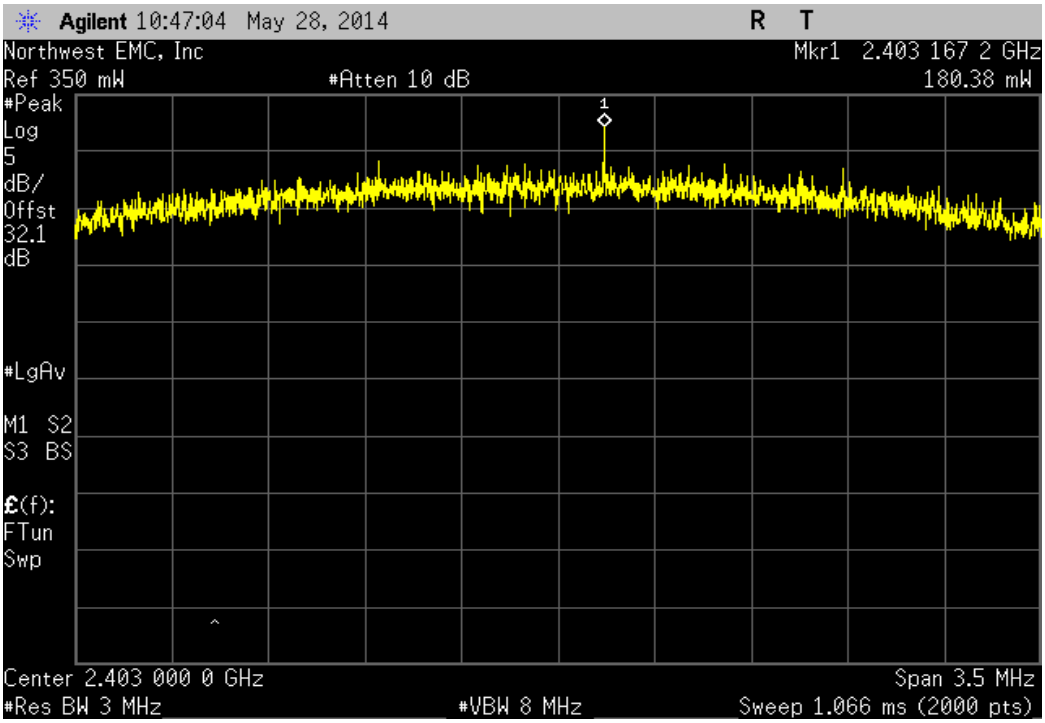
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, High Channel 2470 MHz

				Value	Limit	Result
				150.834 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2403 MHz

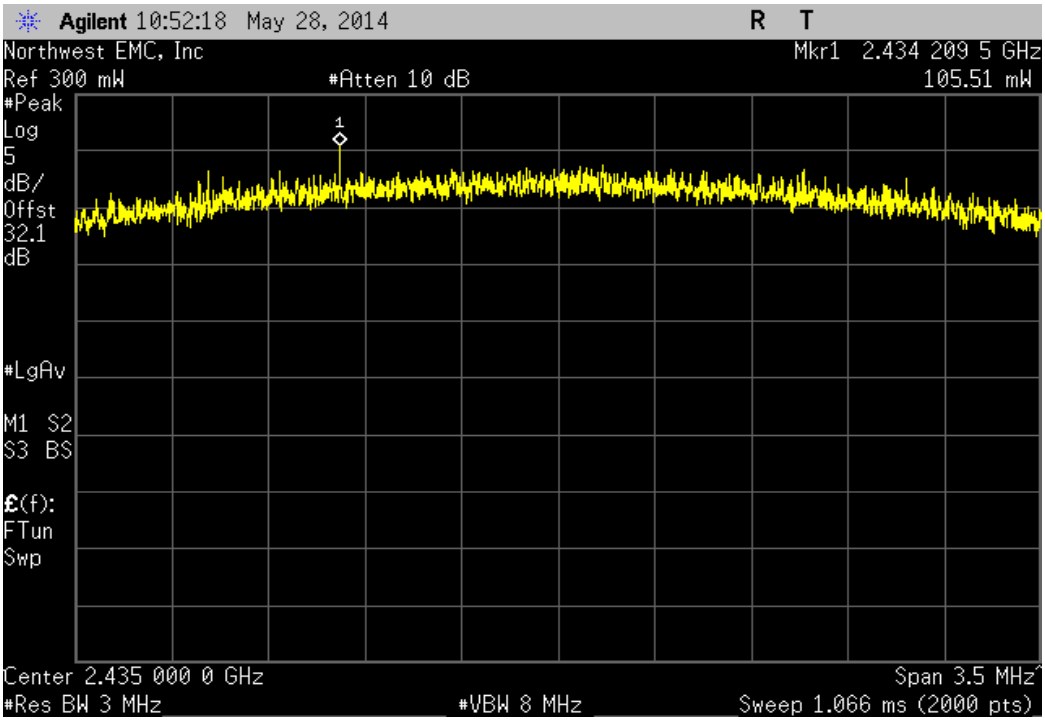
				Value	Limit	Result
				180.385 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

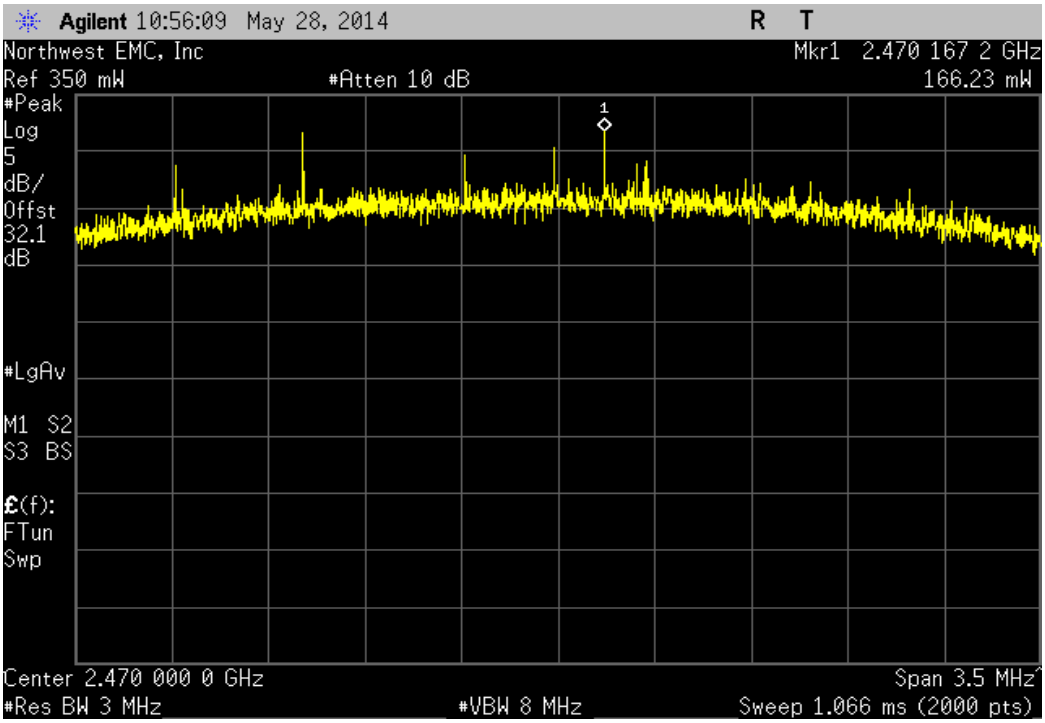
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2435 MHz

				Value	Limit	Result
				105.512 mW	< 1 W	Pass



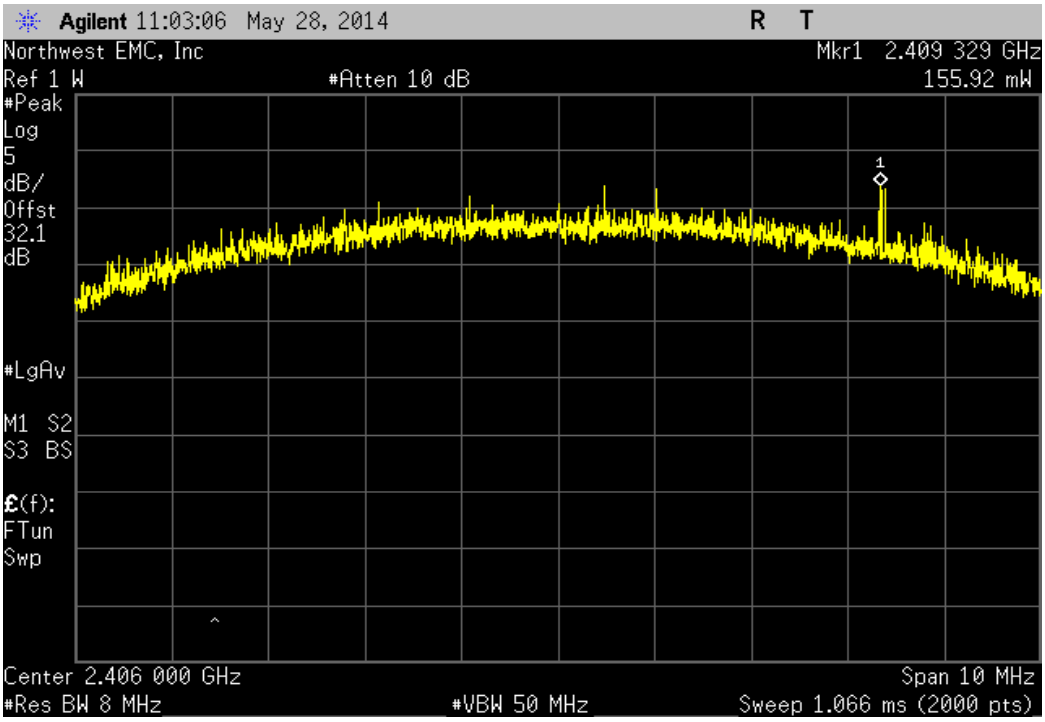
Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, High Channel 2470 MHz

				Value	Limit	Result
				166.226 mW	< 1 W	Pass

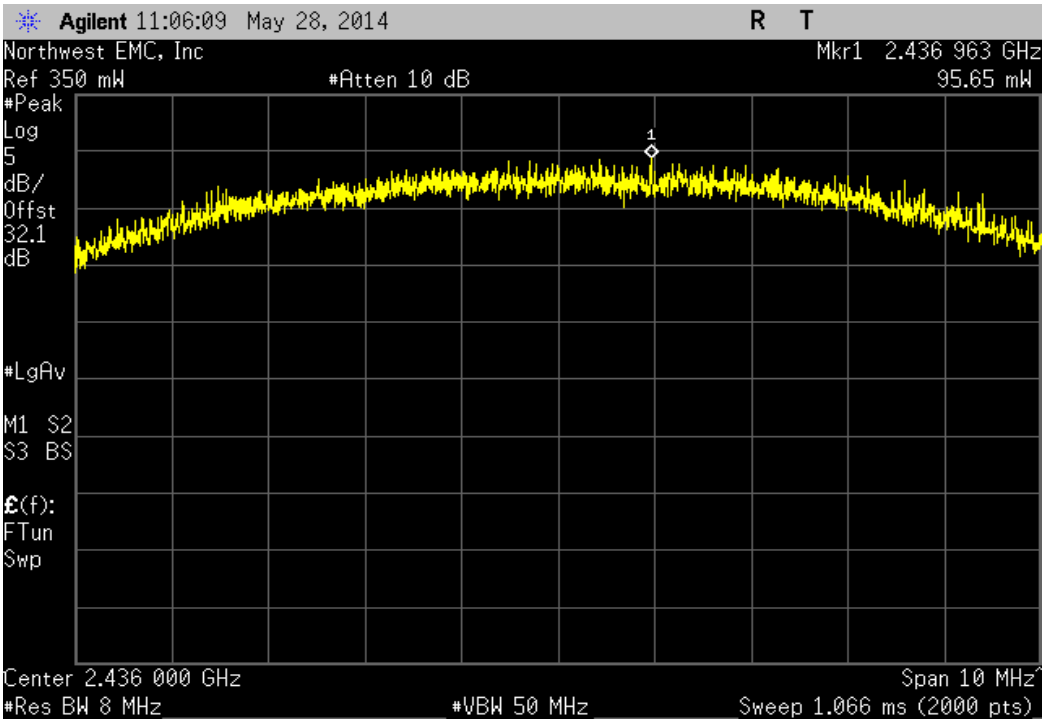


OUTPUT POWER - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2406 MHz						
				Value	Limit	Result
				155.919 mW	< 1 W	Pass



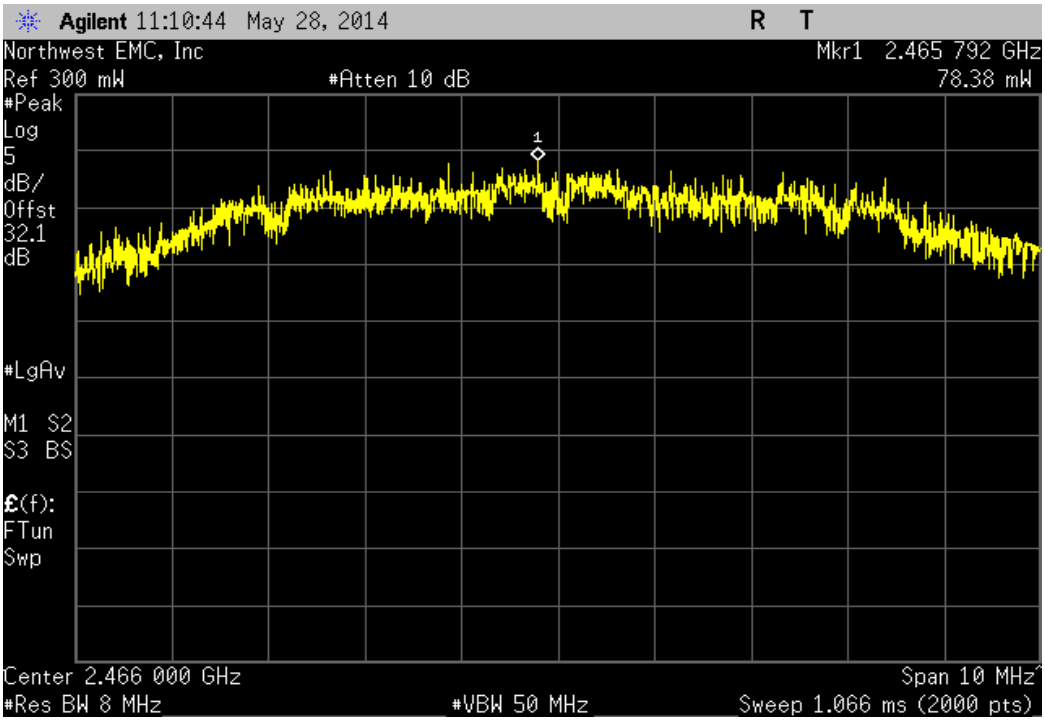
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2436 MHz						
				Value	Limit	Result
				95.653 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

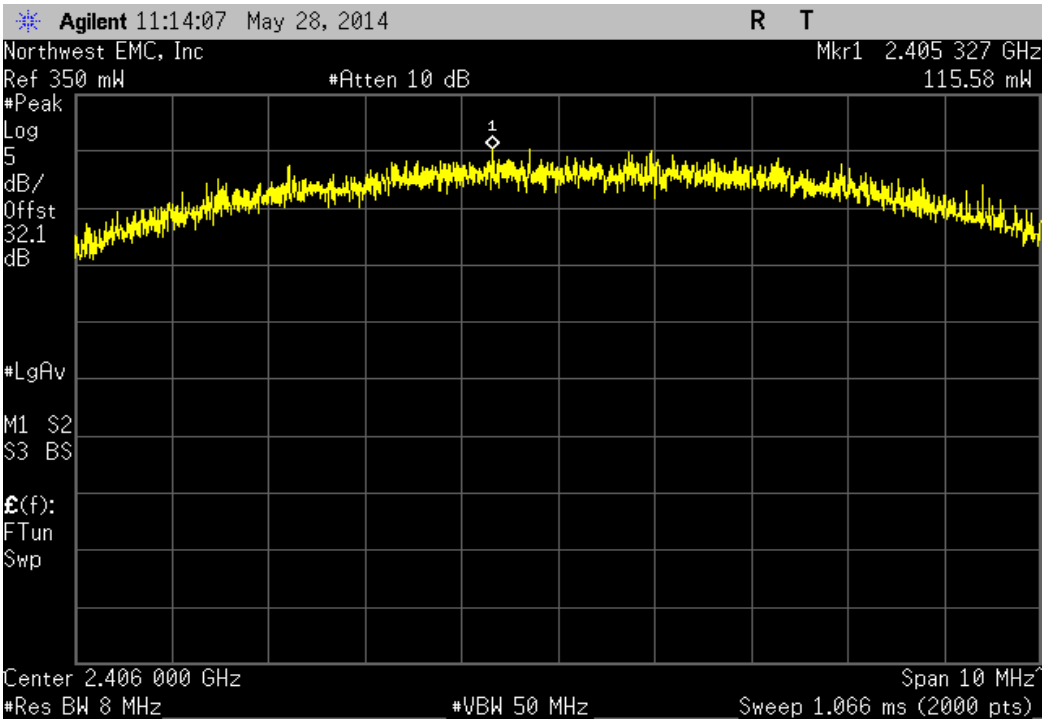
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, High Channel 2466 MHz

				Value	Limit	Result
				78.379 mW	< 1 W	Pass



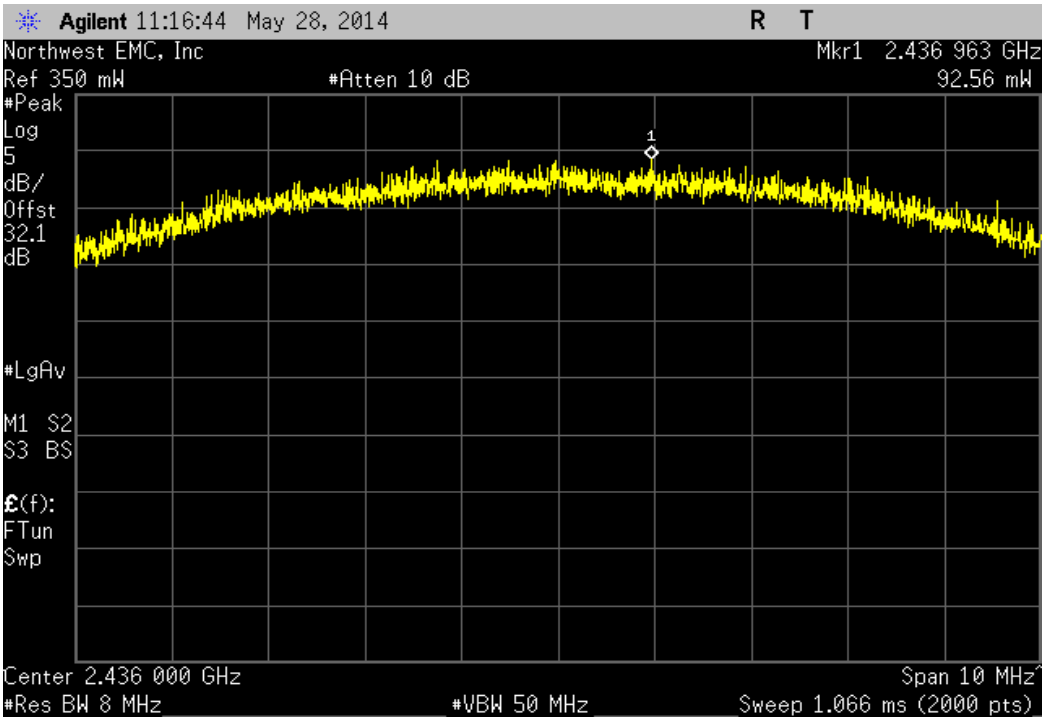
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2406 MHz

				Value	Limit	Result
				115.585 mW	< 1 W	Pass

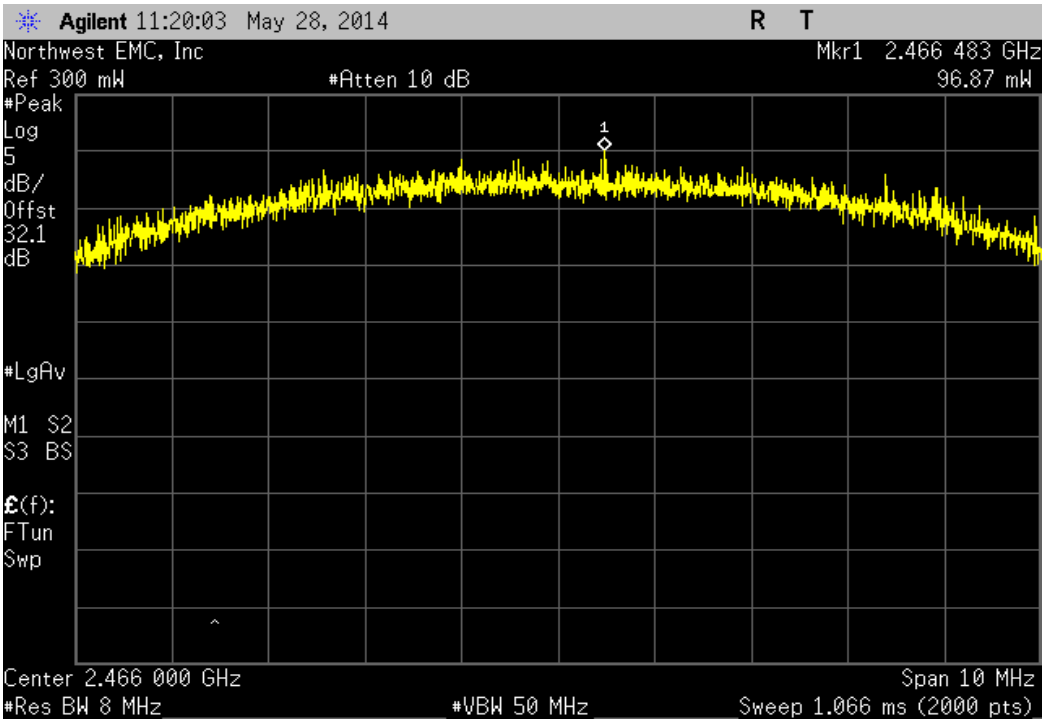


OUTPUT POWER - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2436 MHz						
				Value	Limit	Result
				92.555 mW	< 1 W	Pass



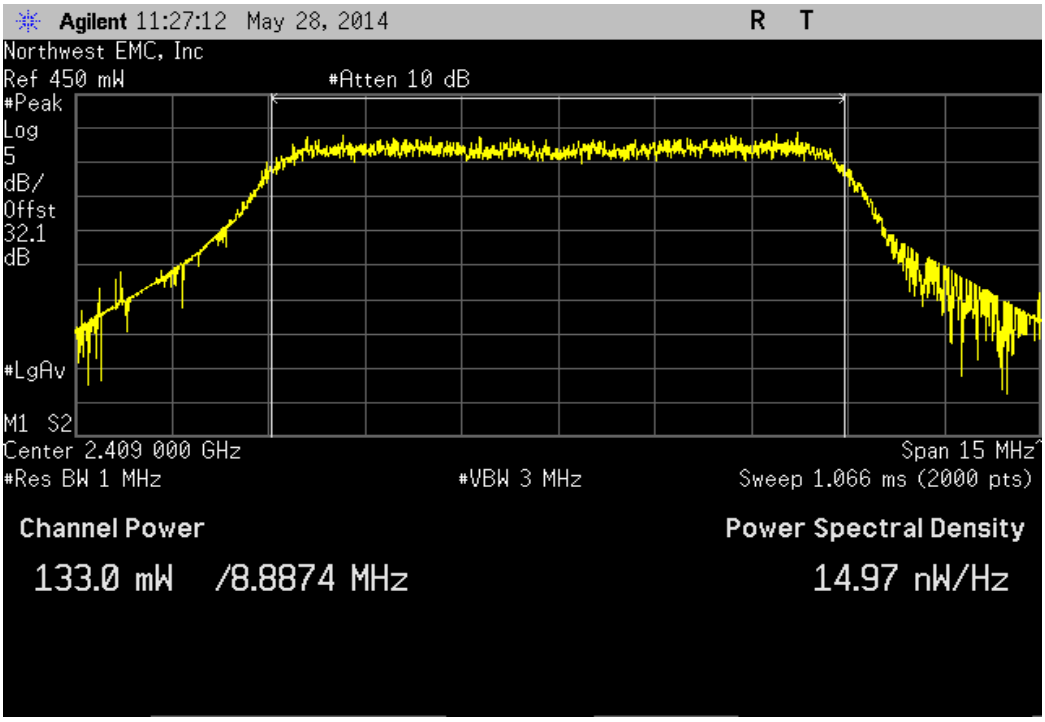
Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, High Channel 2466 MHz						
				Value	Limit	Result
				96.872 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

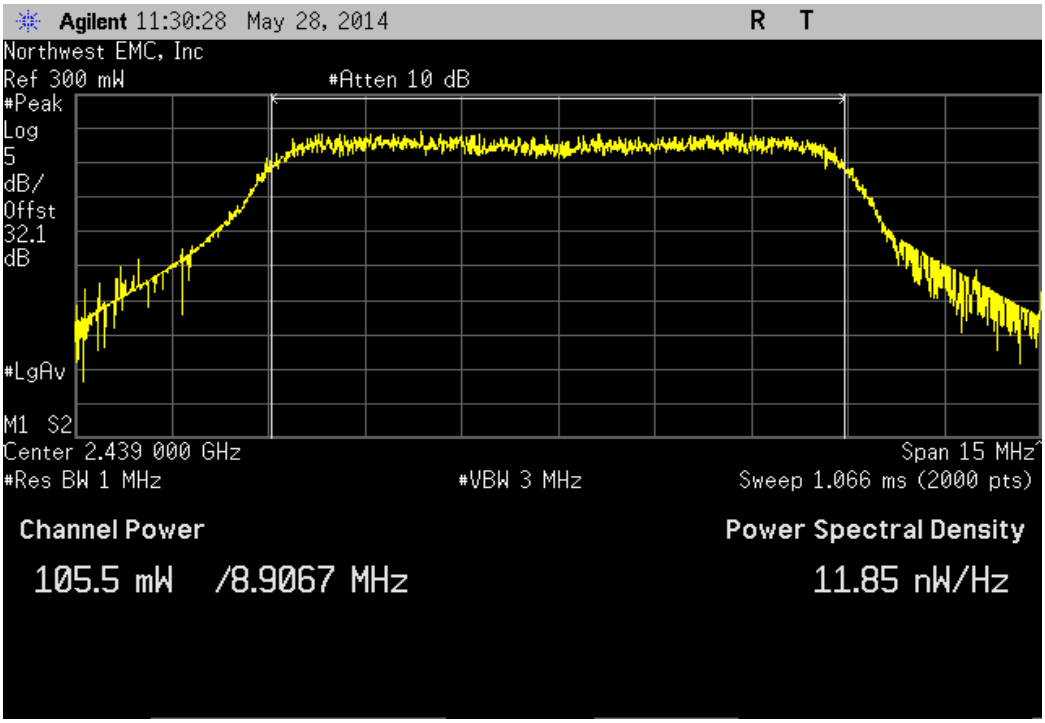
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Low Channel 2409 MHz

				Value	Limit	Result
				133.018 mW	< 1 W	Pass



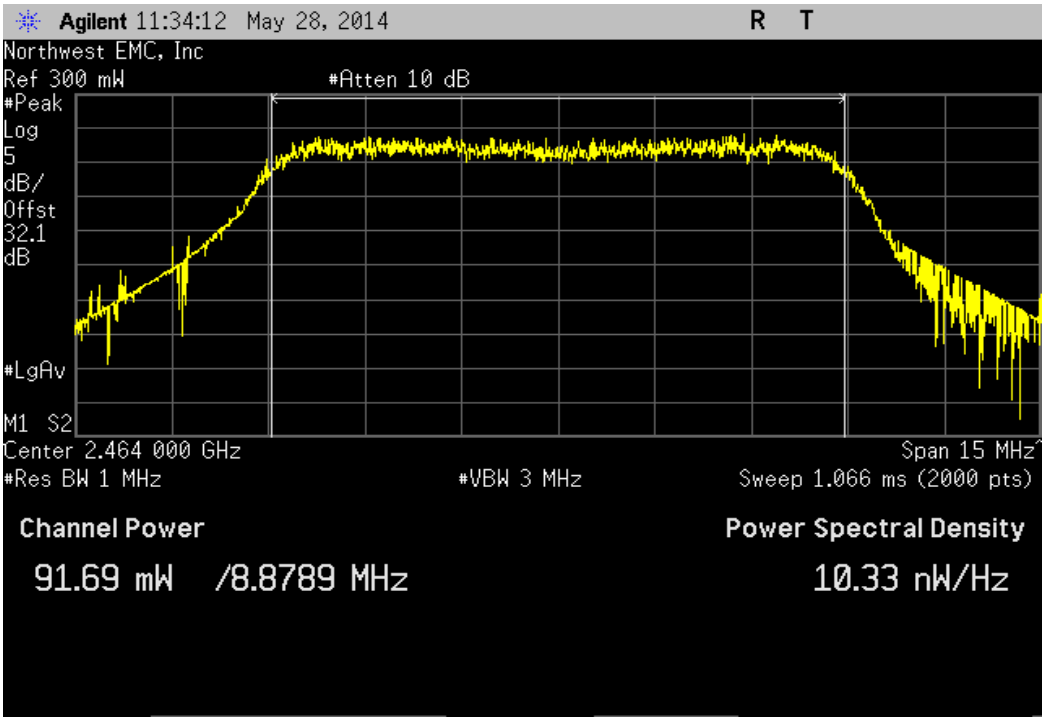
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2439 MHz

				Value	Limit	Result
				105.543 mW	< 1 W	Pass

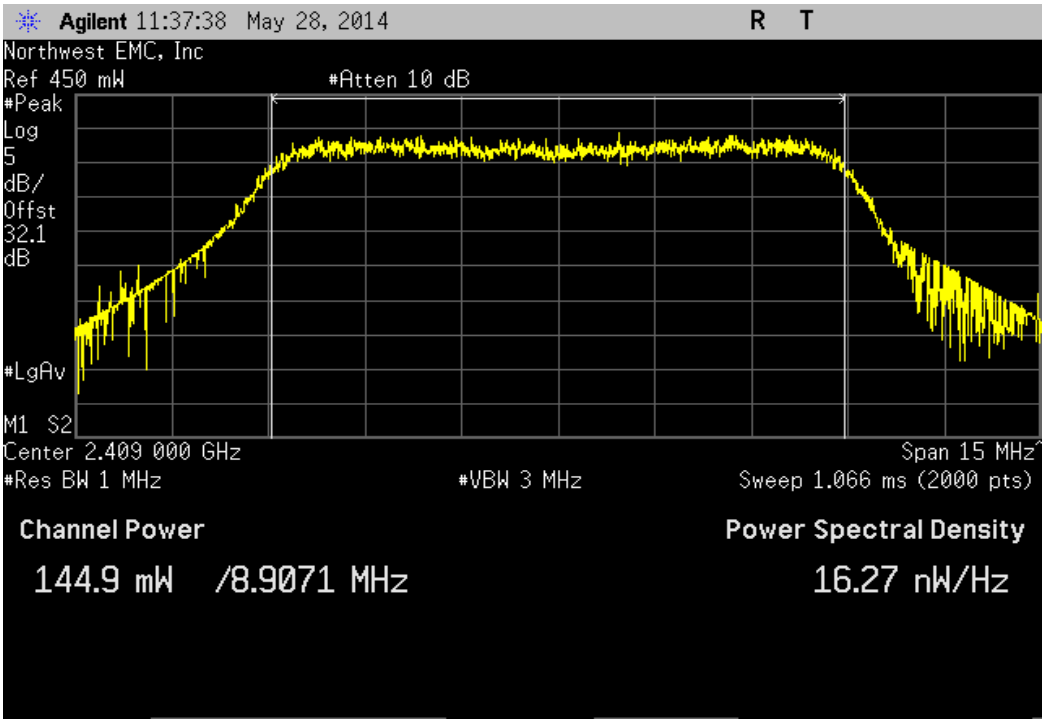


OUTPUT POWER - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, High Channel 2464 MHz						
				Value	Limit	Result
				91.687 mW	< 1 W	Pass



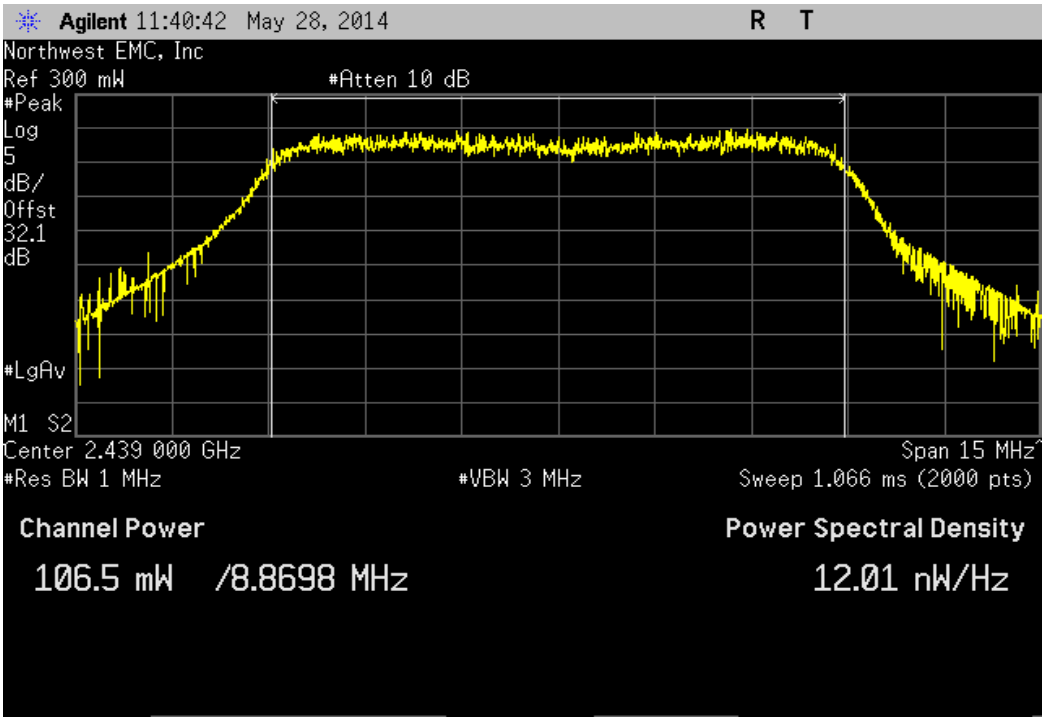
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Low Channel 2409 MHz						
				Value	Limit	Result
				144.878 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

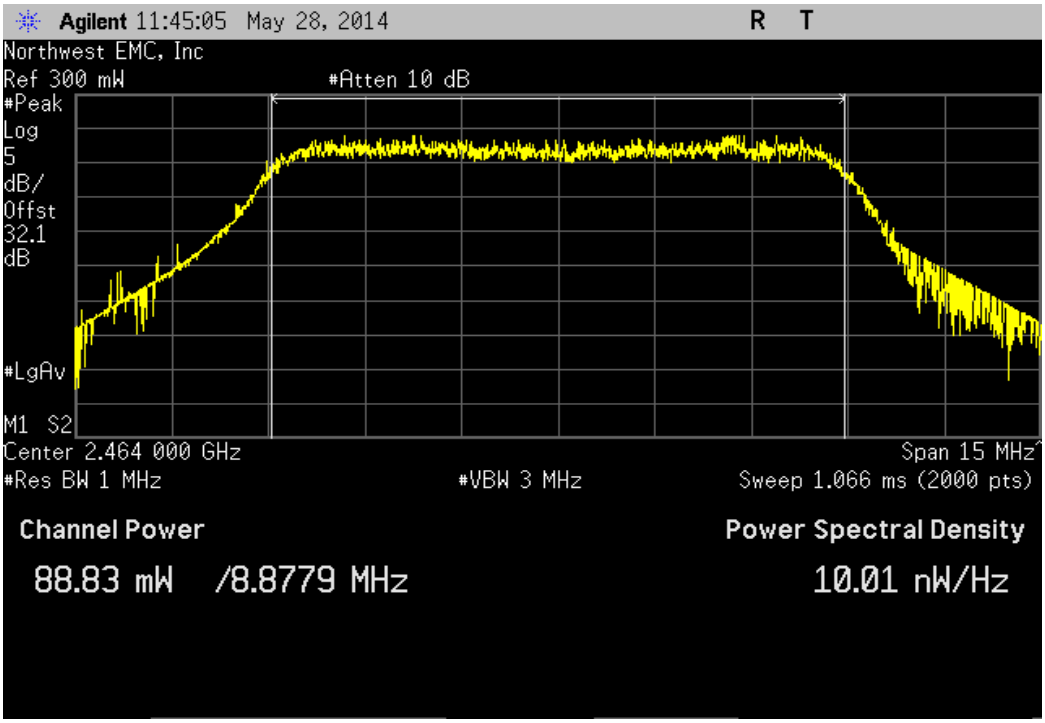
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2439 MHz

				Value	Limit	Result
				106.544 mW	< 1 W	Pass



Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, High Channel 2464 MHz

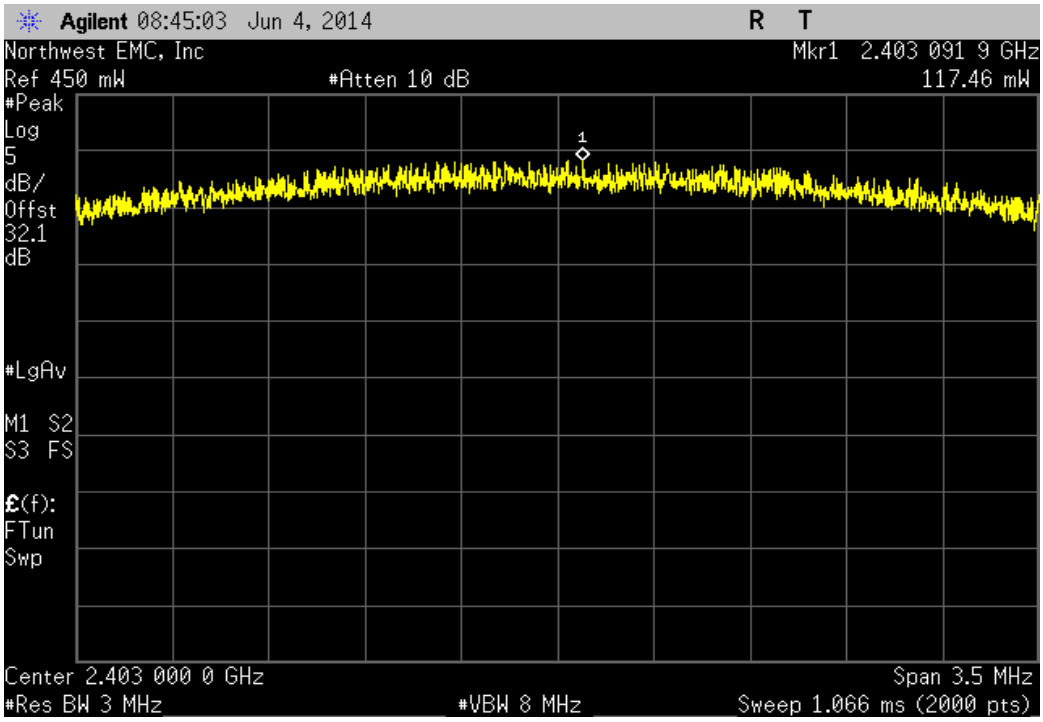
				Value	Limit	Result
				88.828 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

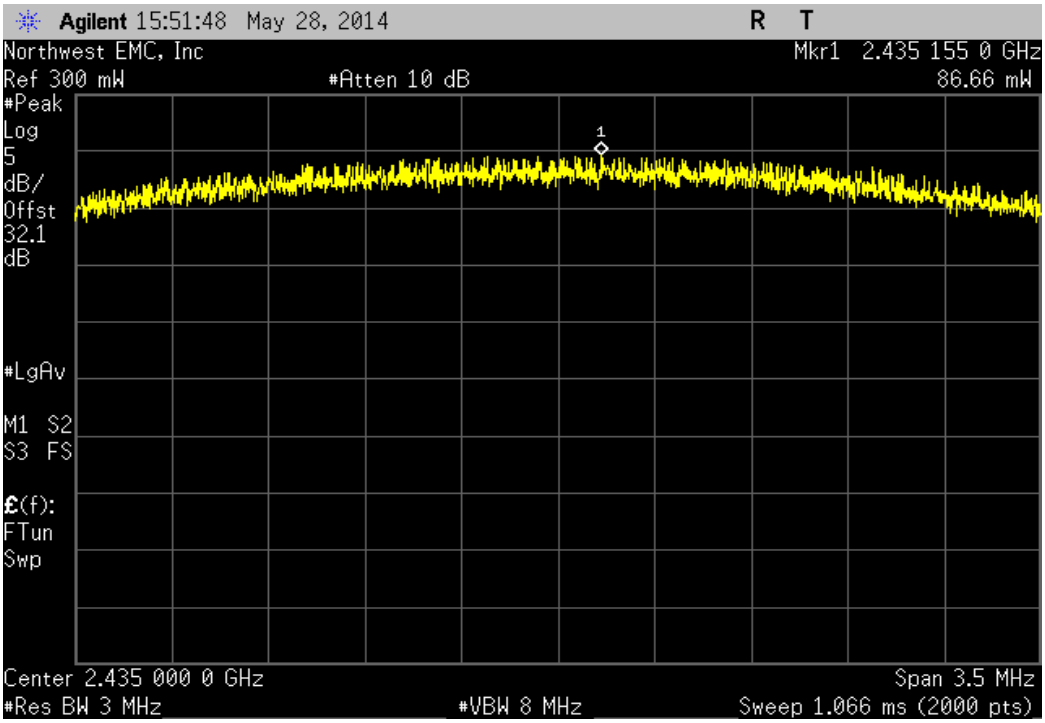
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2403 MHz

				Value	Limit	Result
				117.46 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2435 MHz

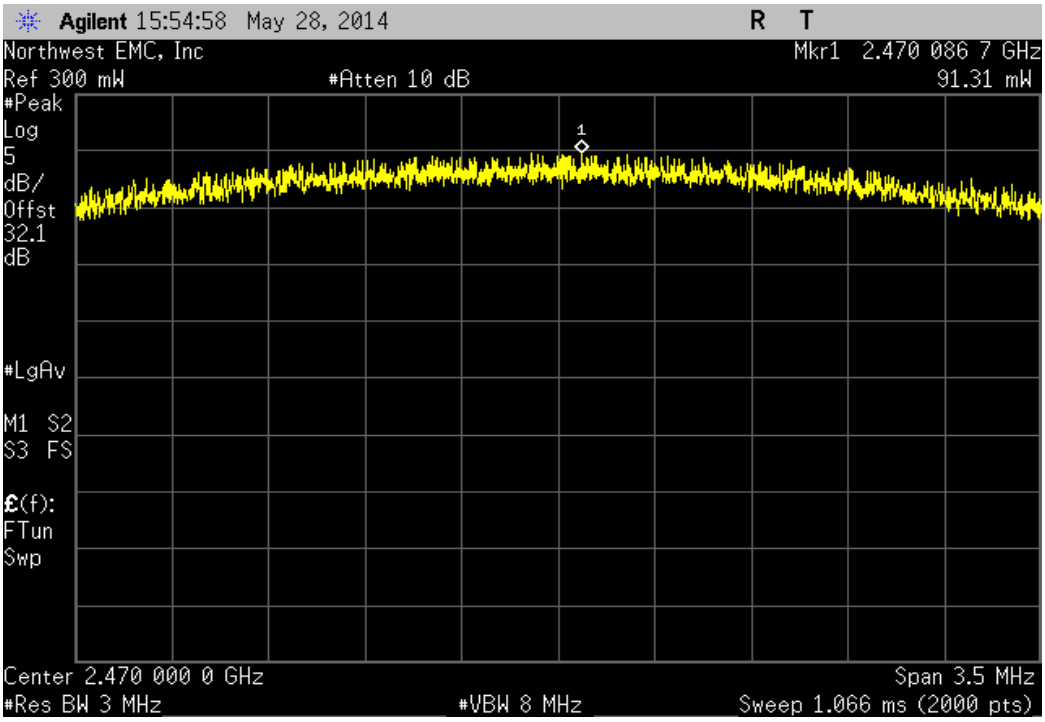
				Value	Limit	Result
				86.656 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

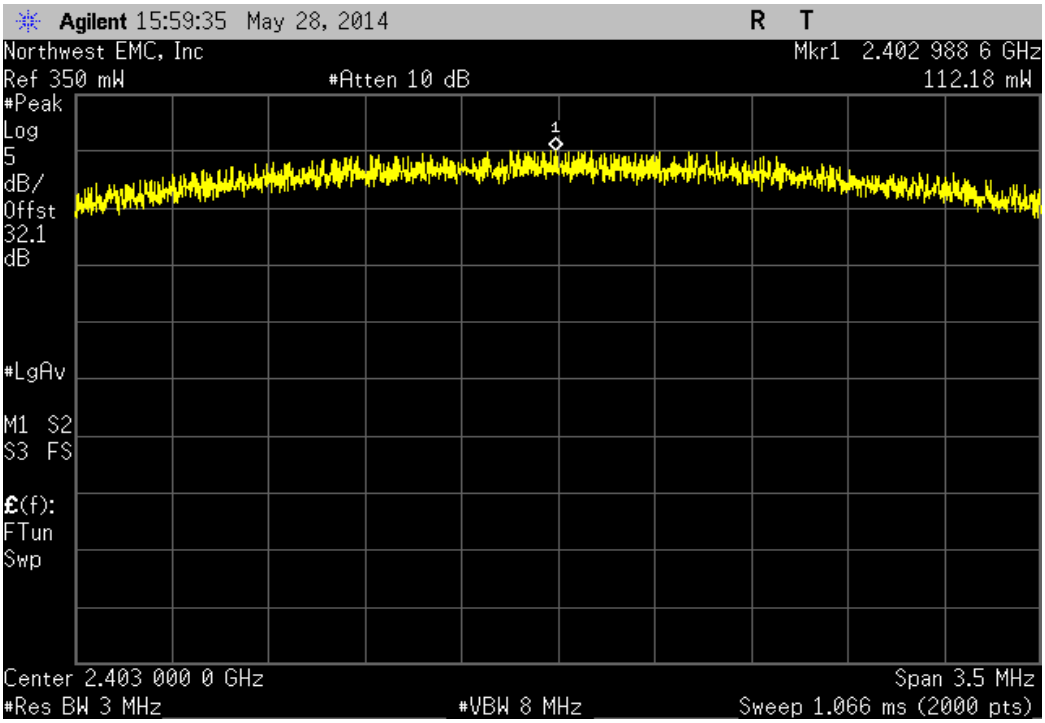
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, High Channel 2470 MHz

				Value	Limit	Result
				91.306 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2403 MHz

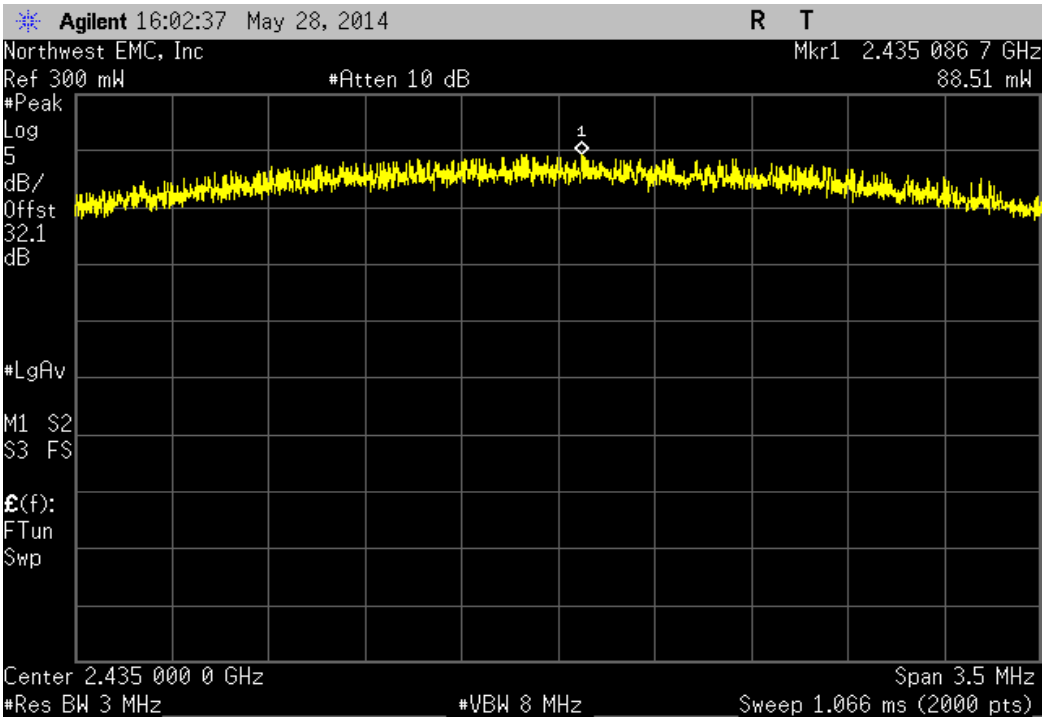
				Value	Limit	Result
				112.176 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

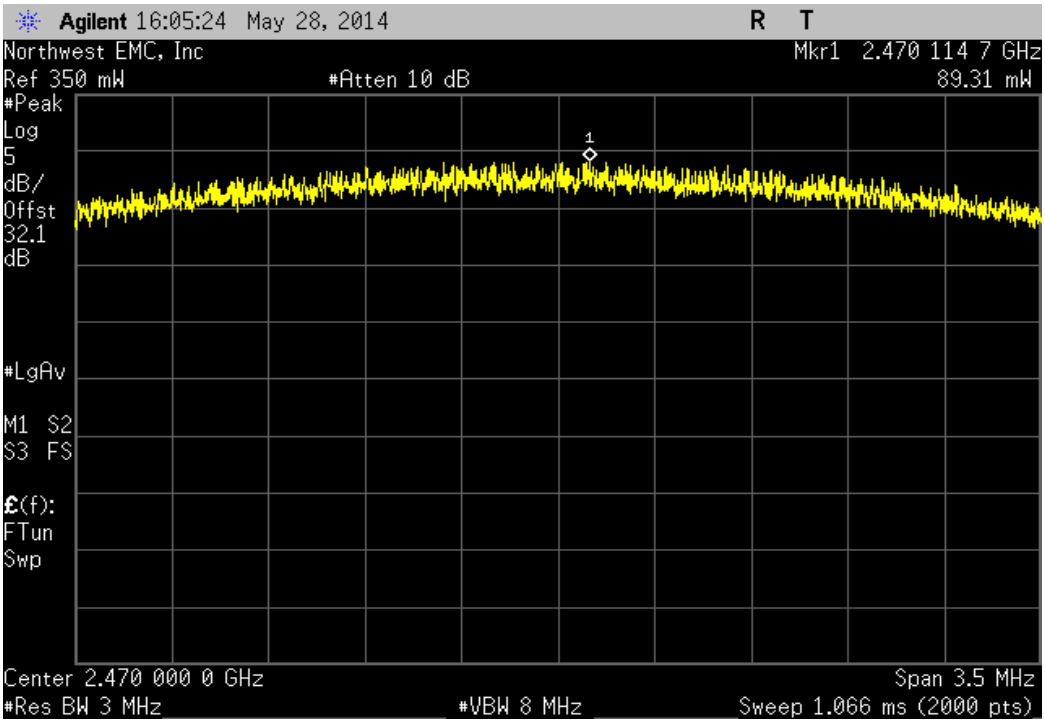
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2435 MHz

				Value	Limit	Result
				88.512 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, High Channel 2470 MHz

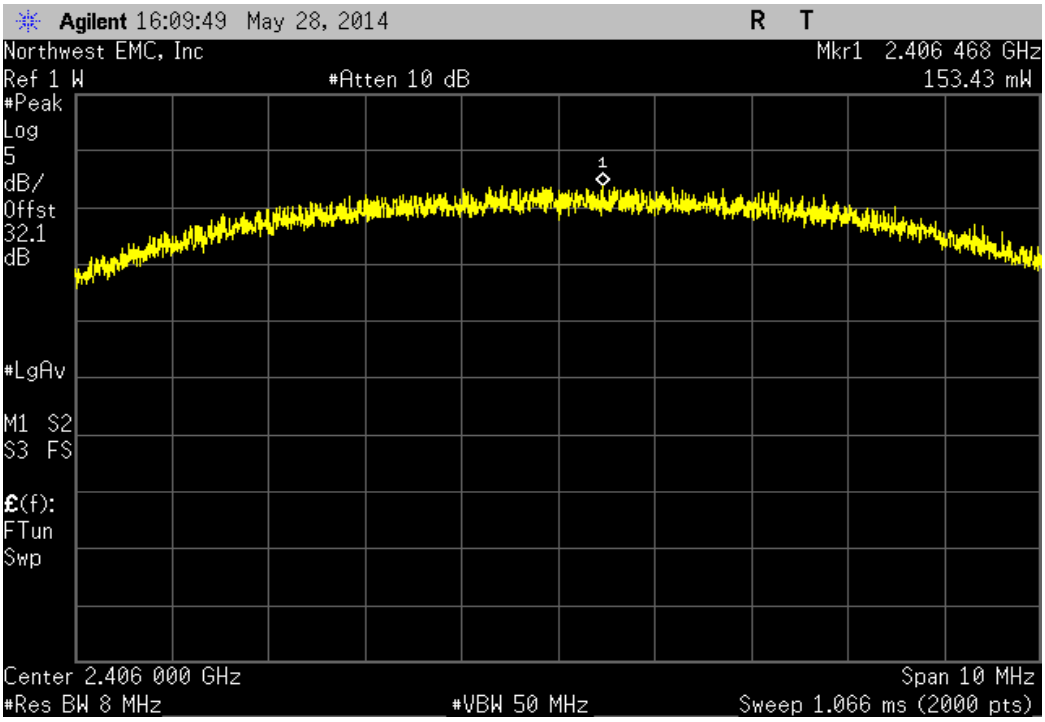
				Value	Limit	Result
				89.31 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

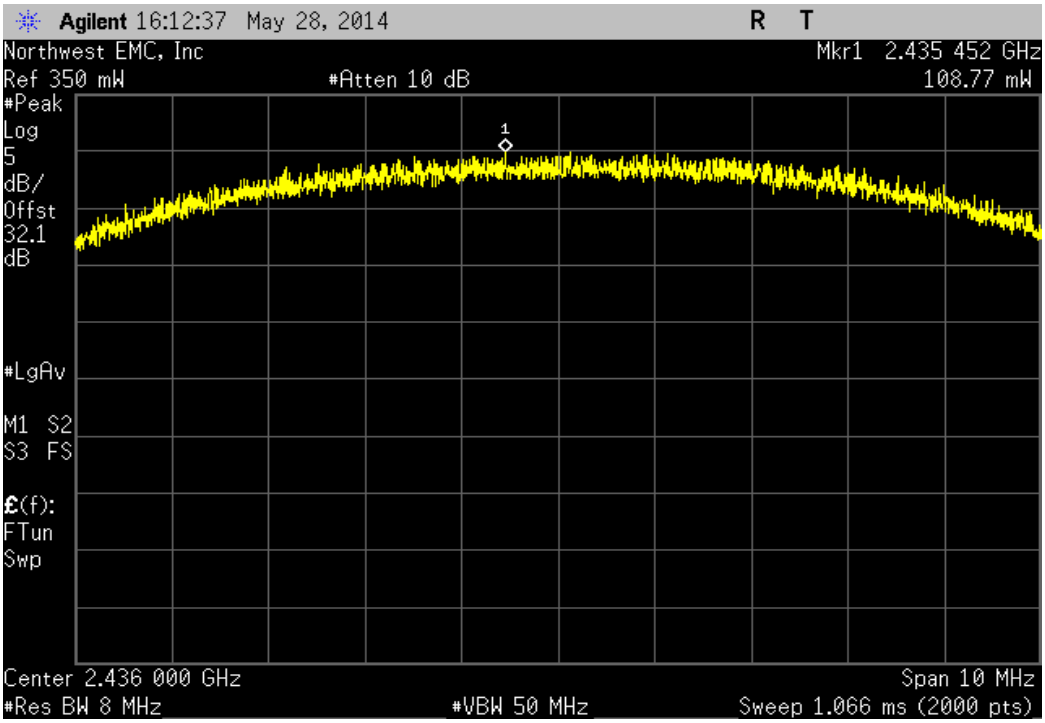
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2406 MHz

				Value	Limit	Result
				153.426 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2436 MHz

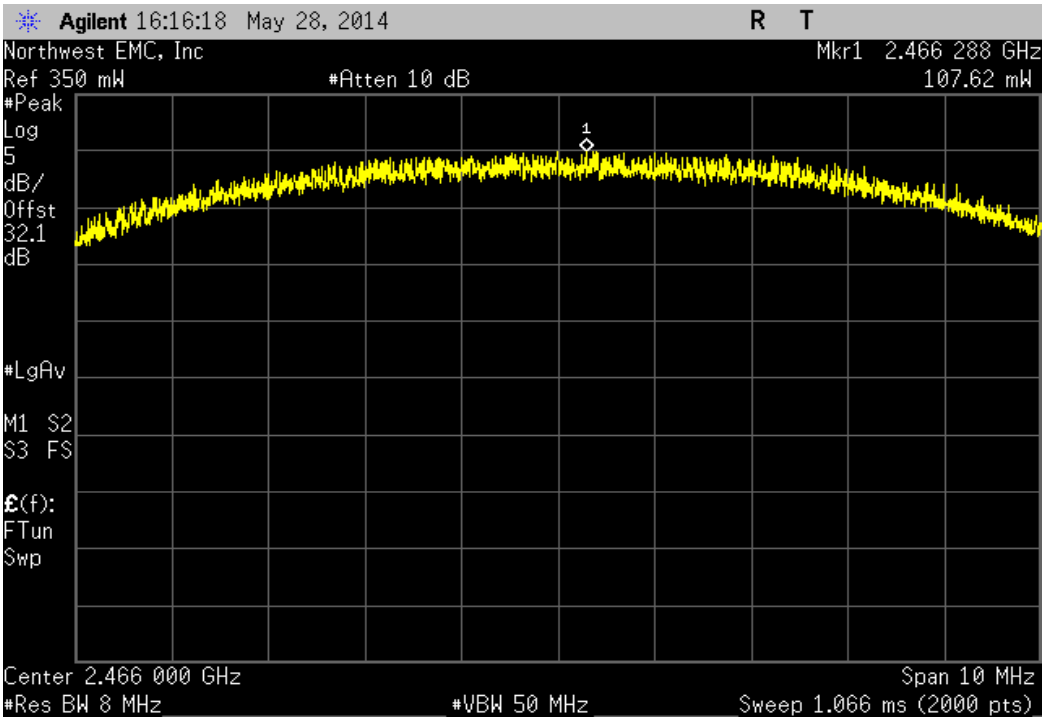
				Value	Limit	Result
				108.768 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

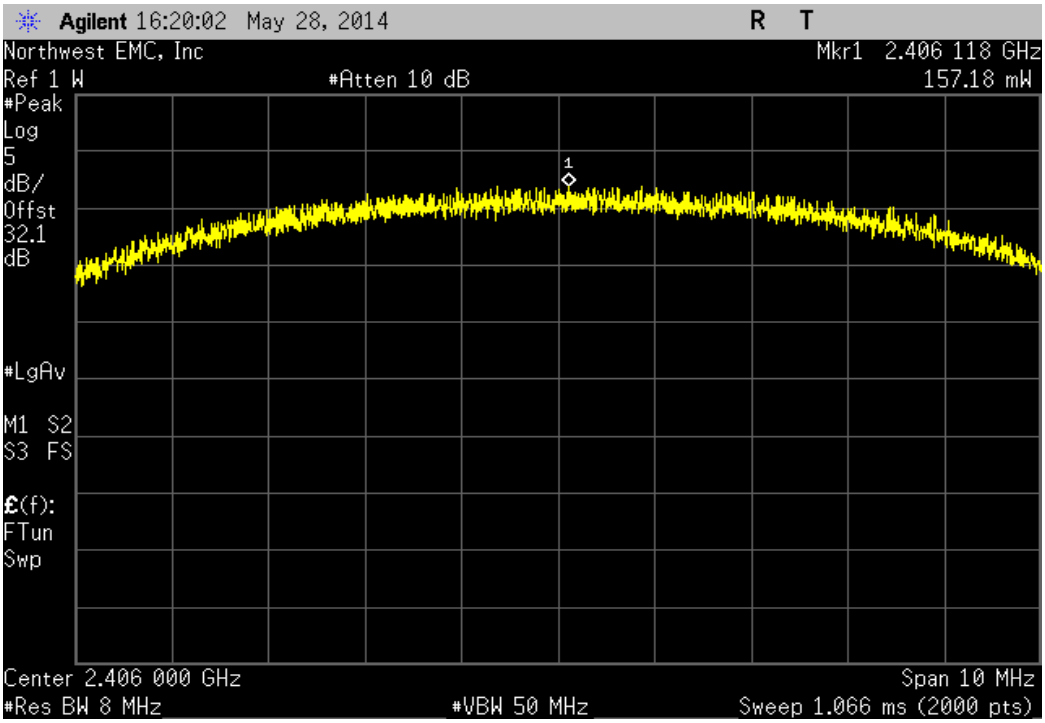
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, High Channel 2466 MHz

				Value	Limit	Result
				107.622 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2406 MHz

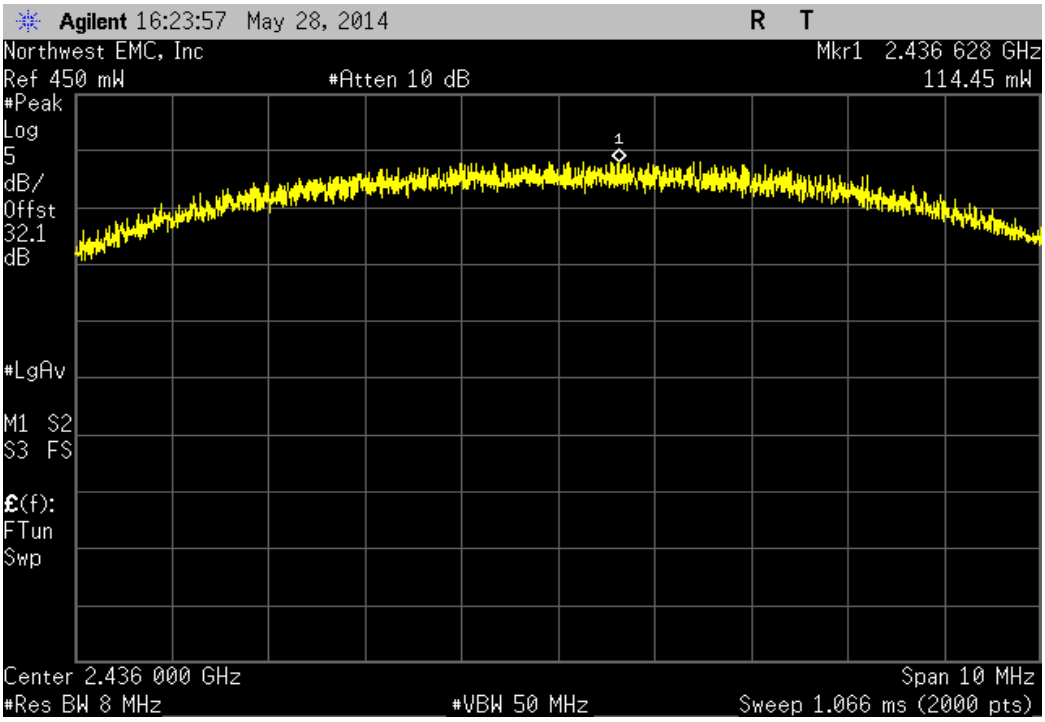
				Value	Limit	Result
				157.181 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

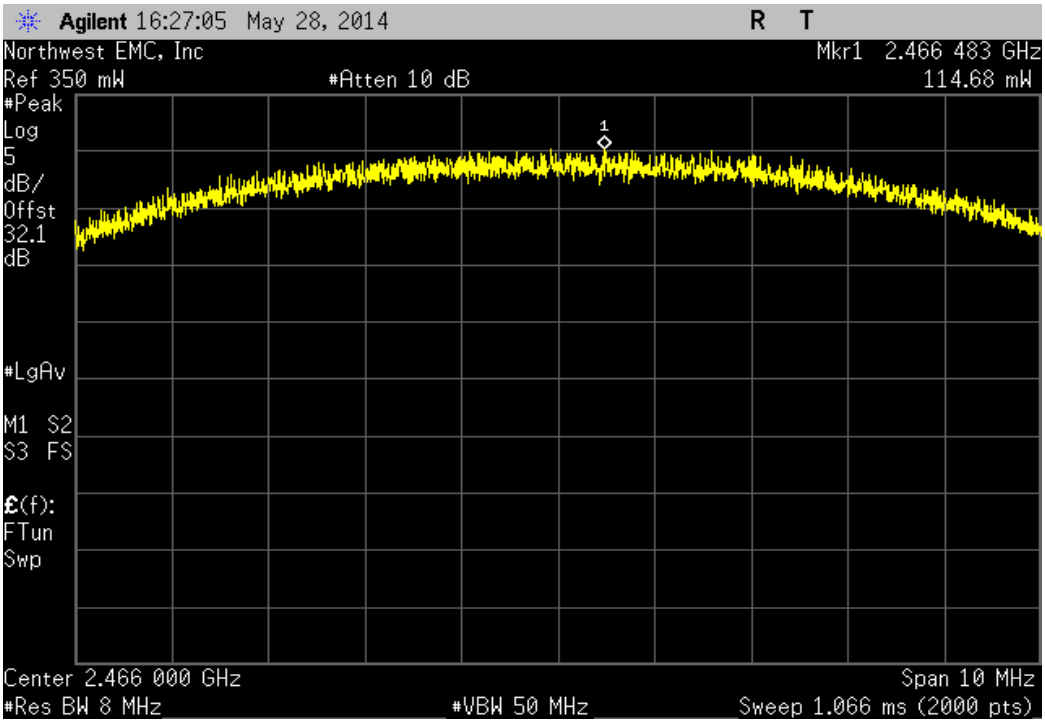
Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2436 MHz

				Value	Limit	Result
				114.446 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, High Channel 2466 MHz

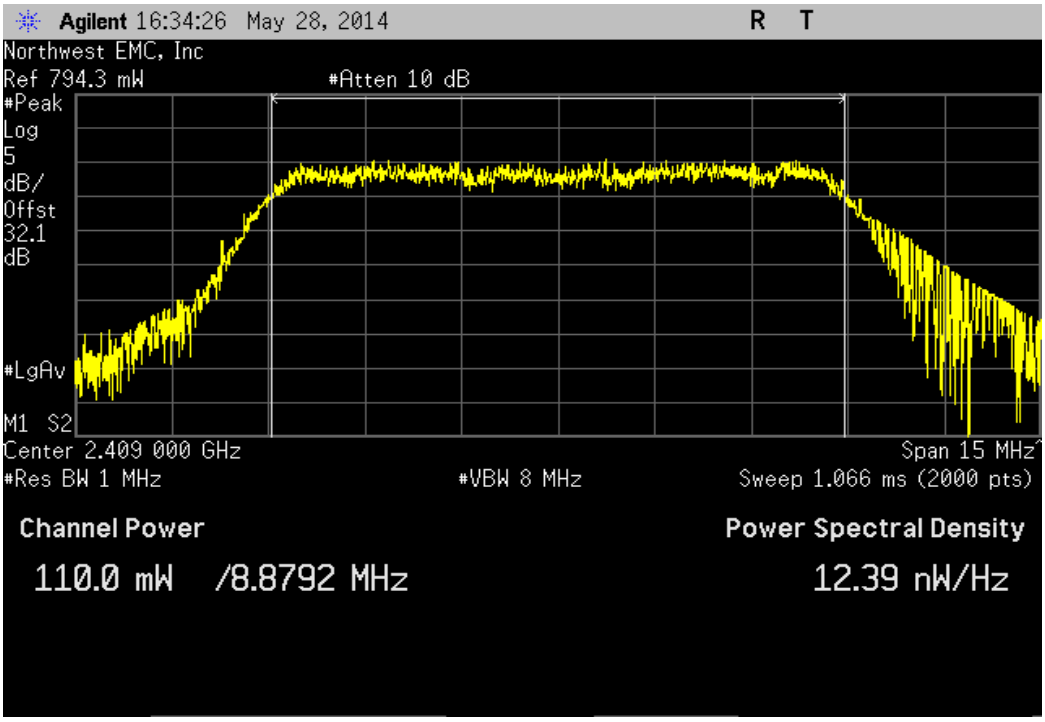
				Value	Limit	Result
				114.683 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

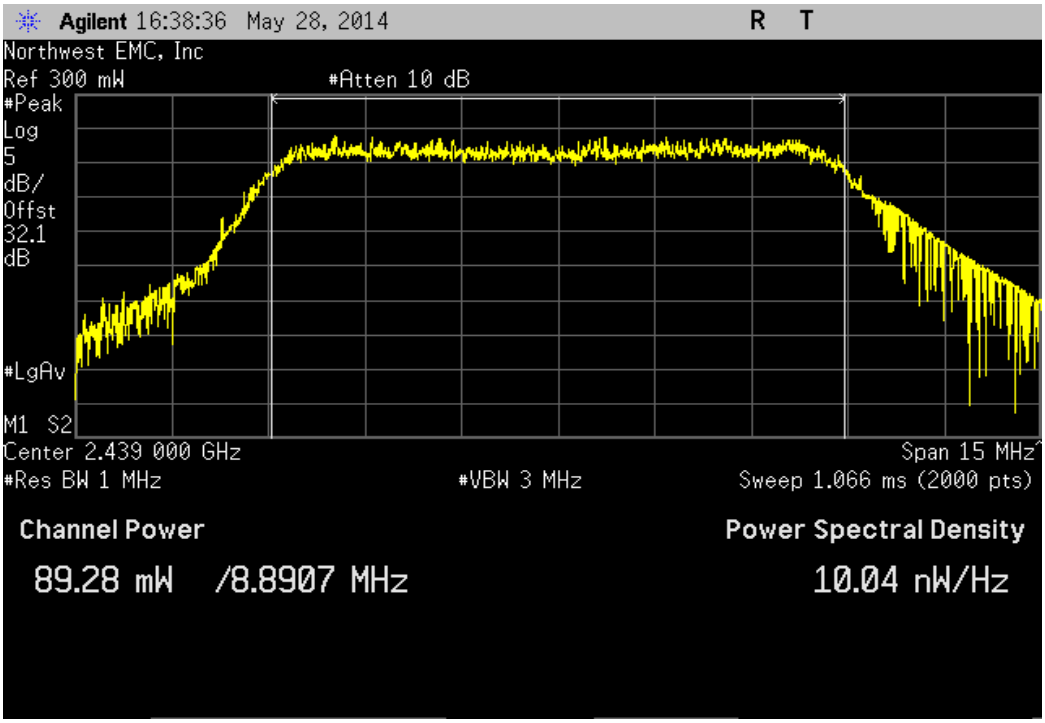
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Low Channel 2409 MHz

				Value	Limit	Result
				110.013 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2439 MHz

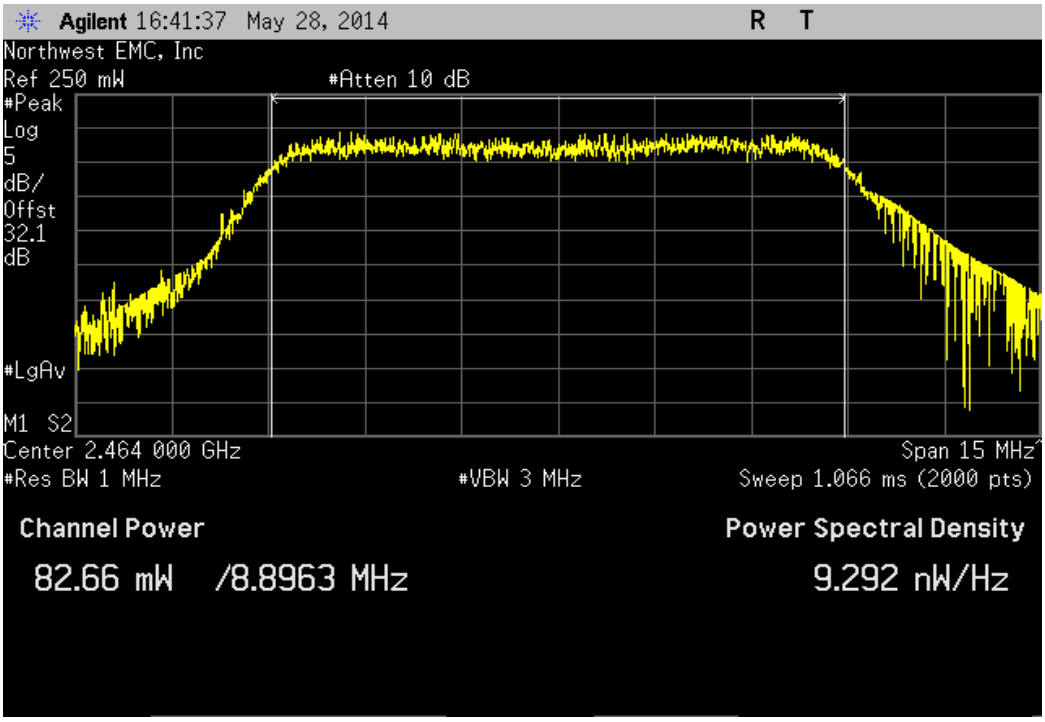
				Value	Limit	Result
				89.28 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

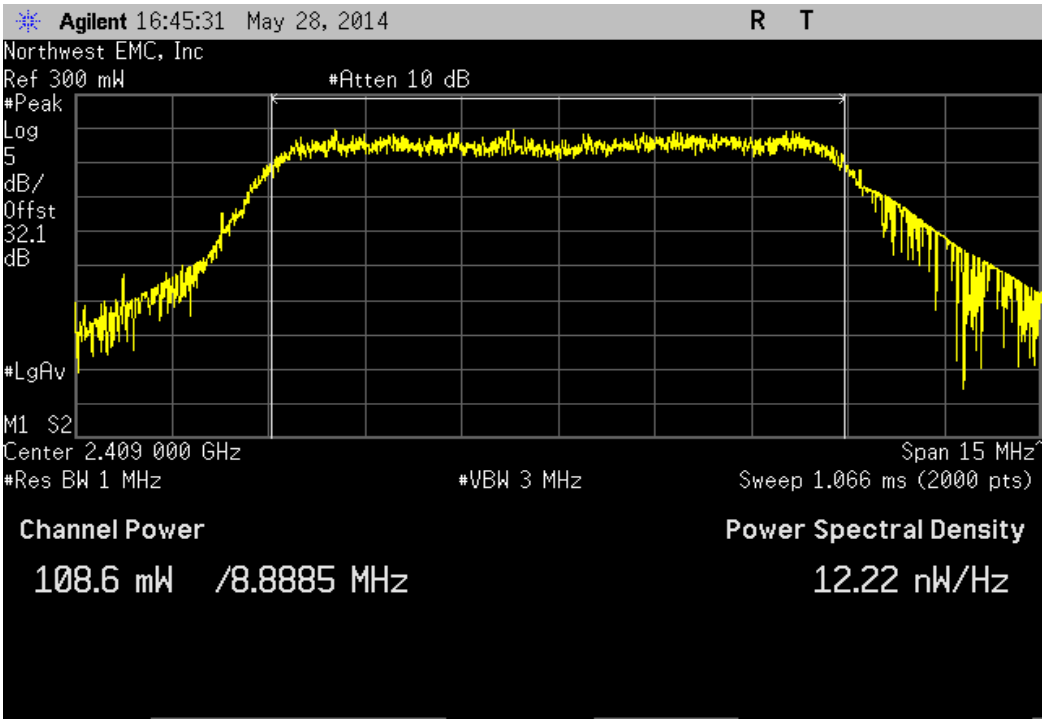
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, High Channel 2464 MHz

				Value	Limit	Result
				82.663 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Low Channel 2409 MHz

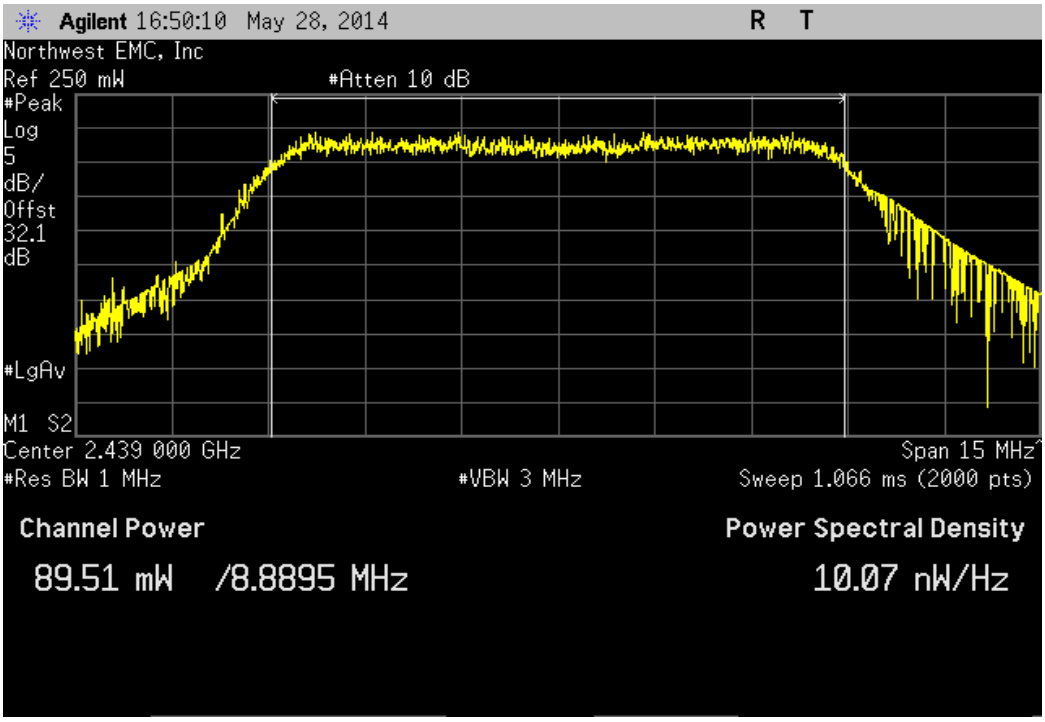
				Value	Limit	Result
				108.646 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

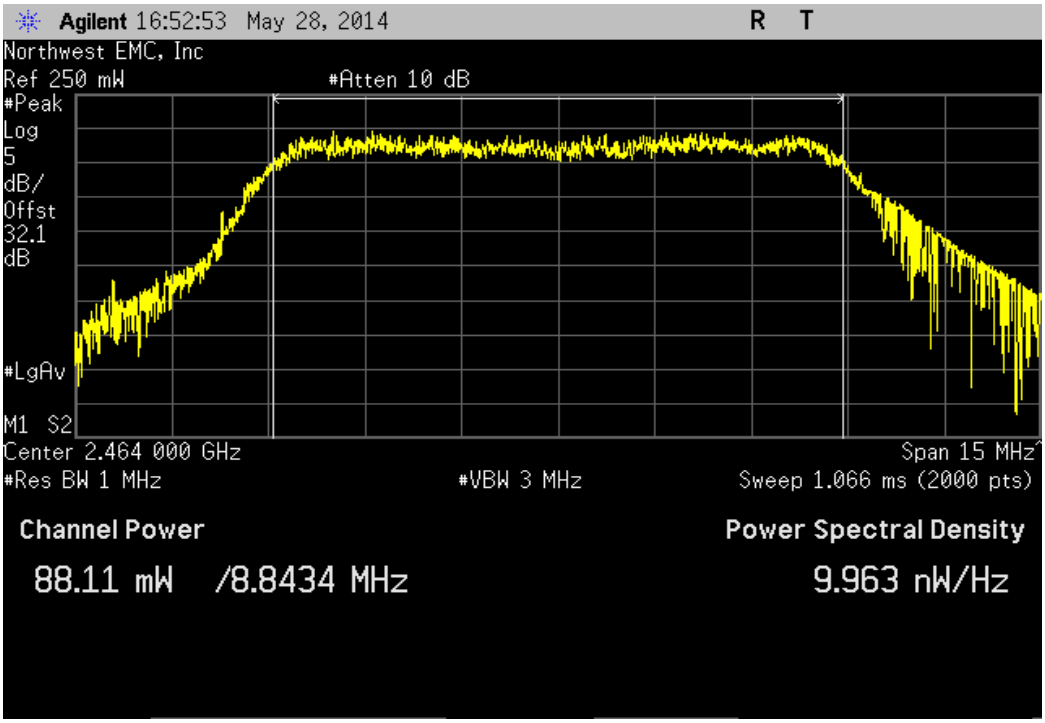
Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2439 MHz

				Value	Limit	Result
				89.513 mW	< 1 W	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, High Channel 2464 MHz

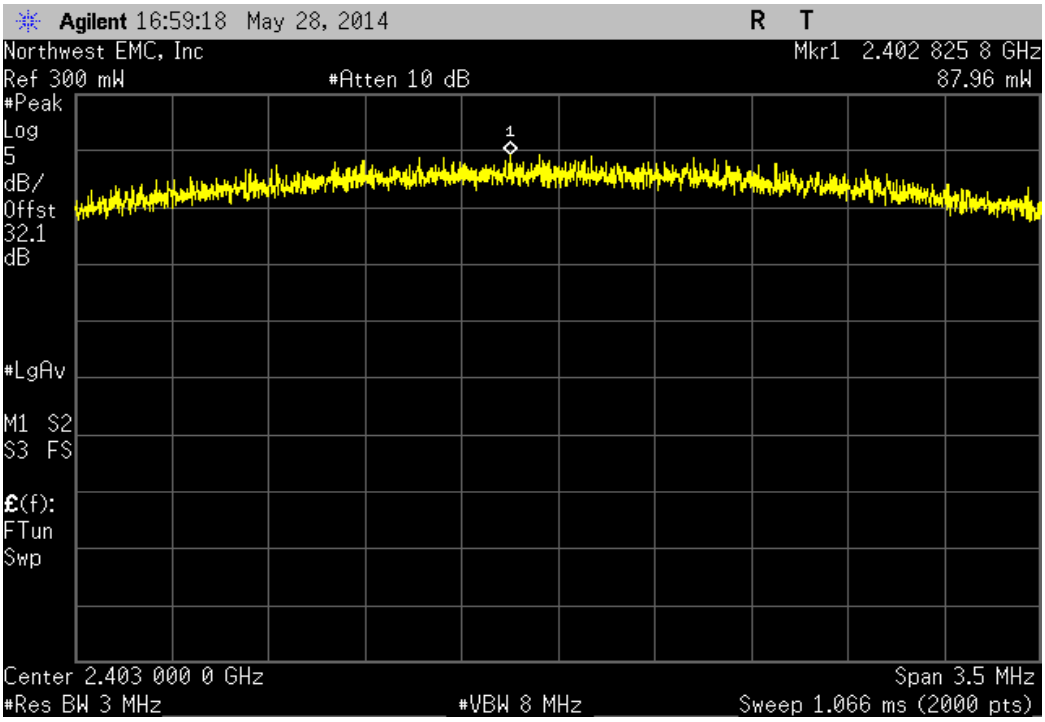
				Value	Limit	Result
				88.111 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

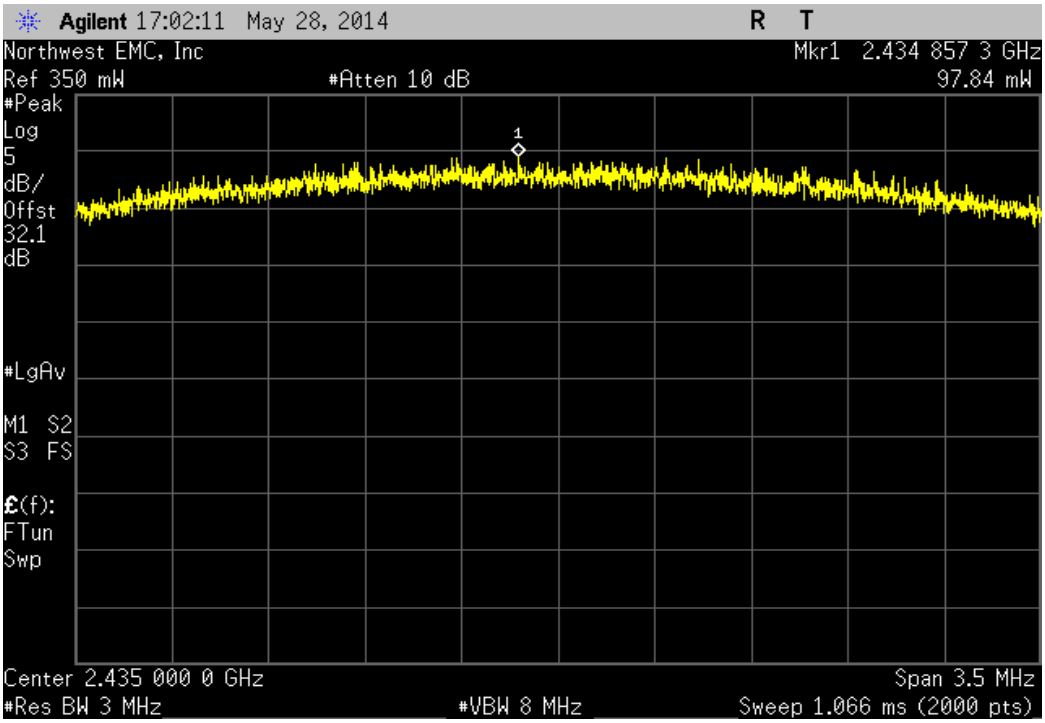
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2403 MHz

				Value	Limit	Result
				87.963 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2435 MHz

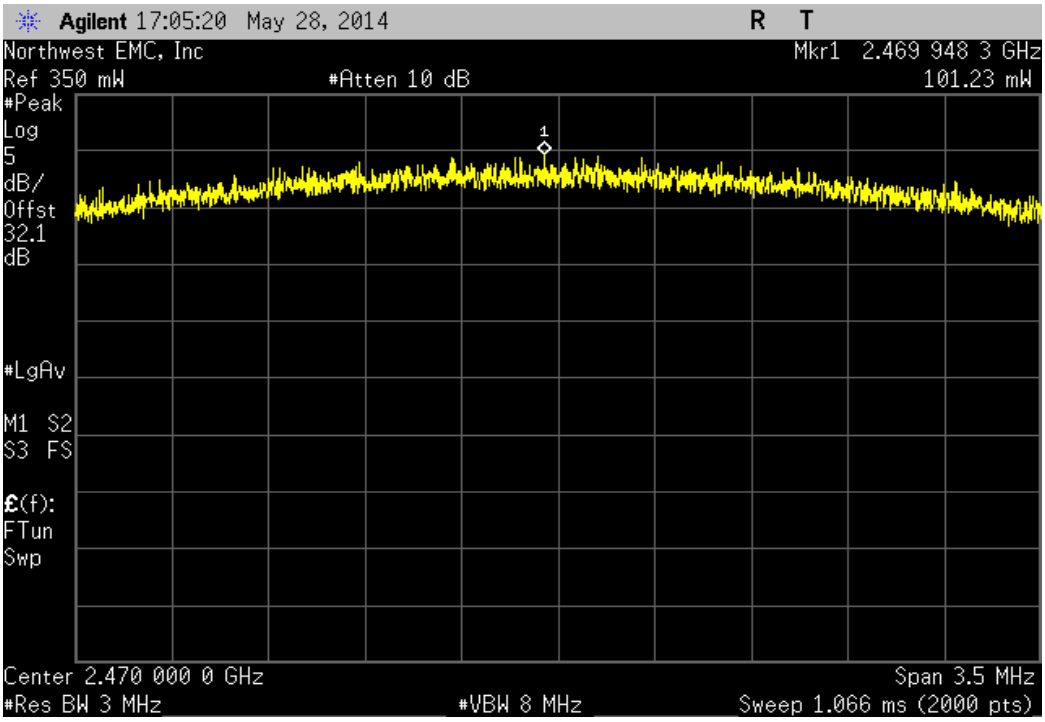
				Value	Limit	Result
				97.836 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

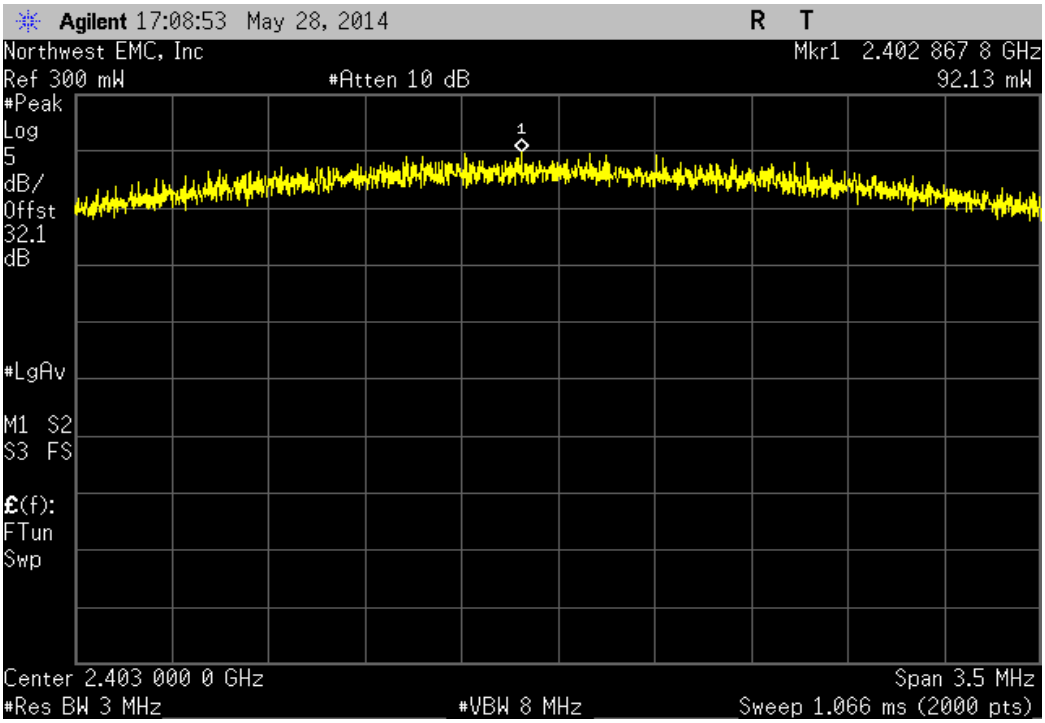
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS16, High Channel 2470 MHz

				Value	Limit	Result
				101.228 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2403 MHz

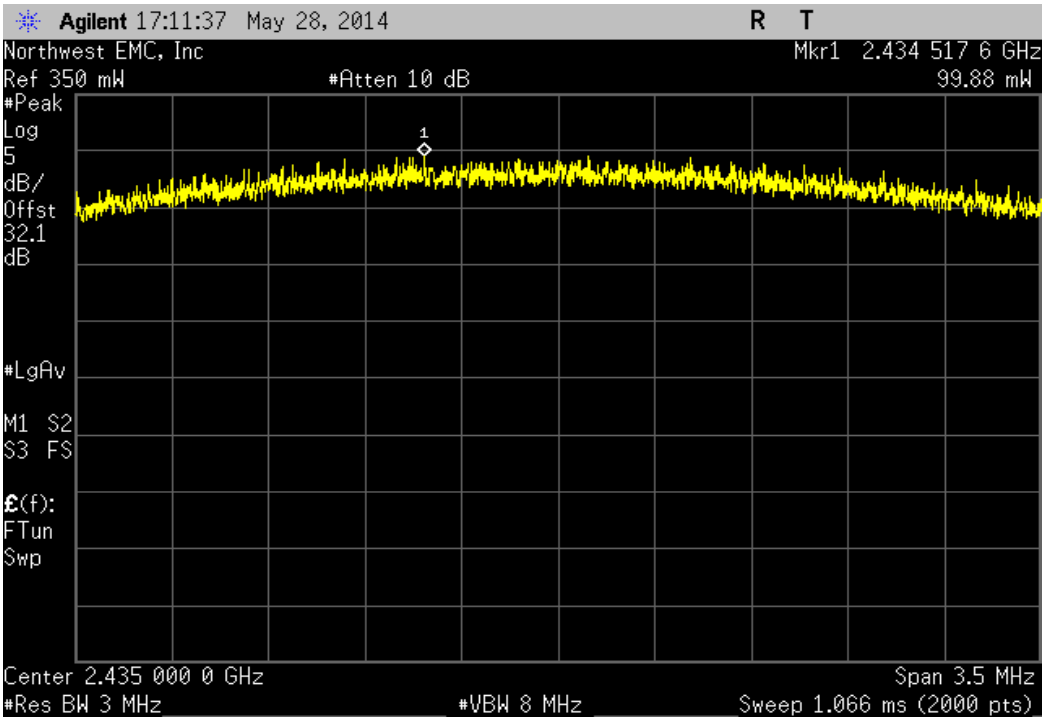
				Value	Limit	Result
				92.13 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

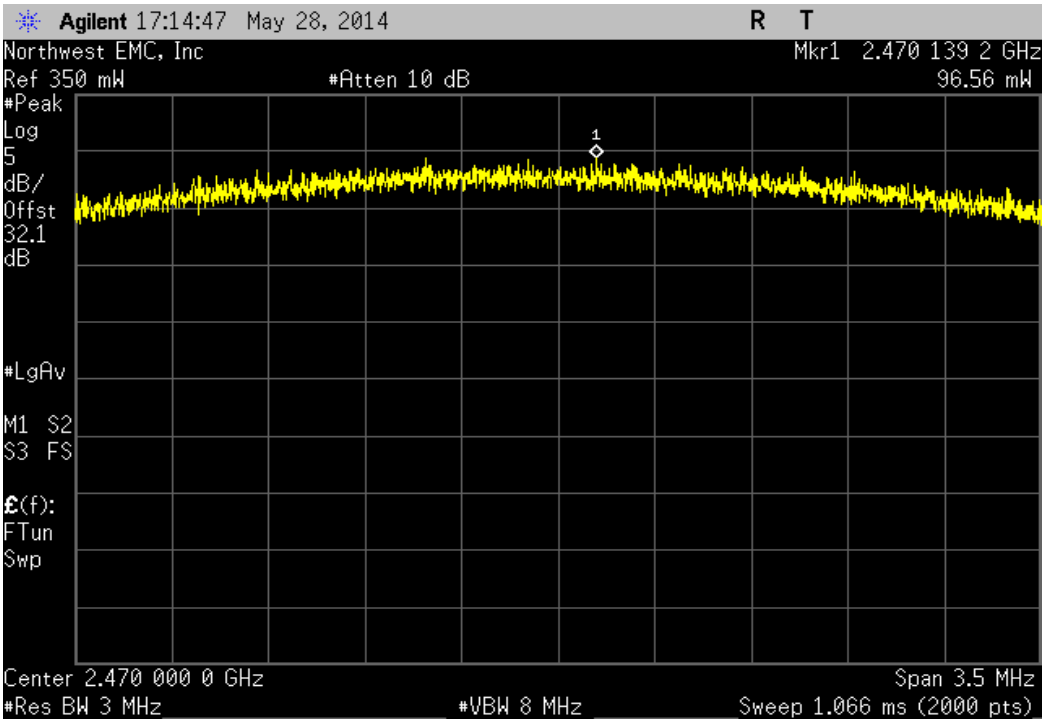
Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2435 MHz

				Value	Limit	Result
				99.885 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS23, High Channel 2470 MHz

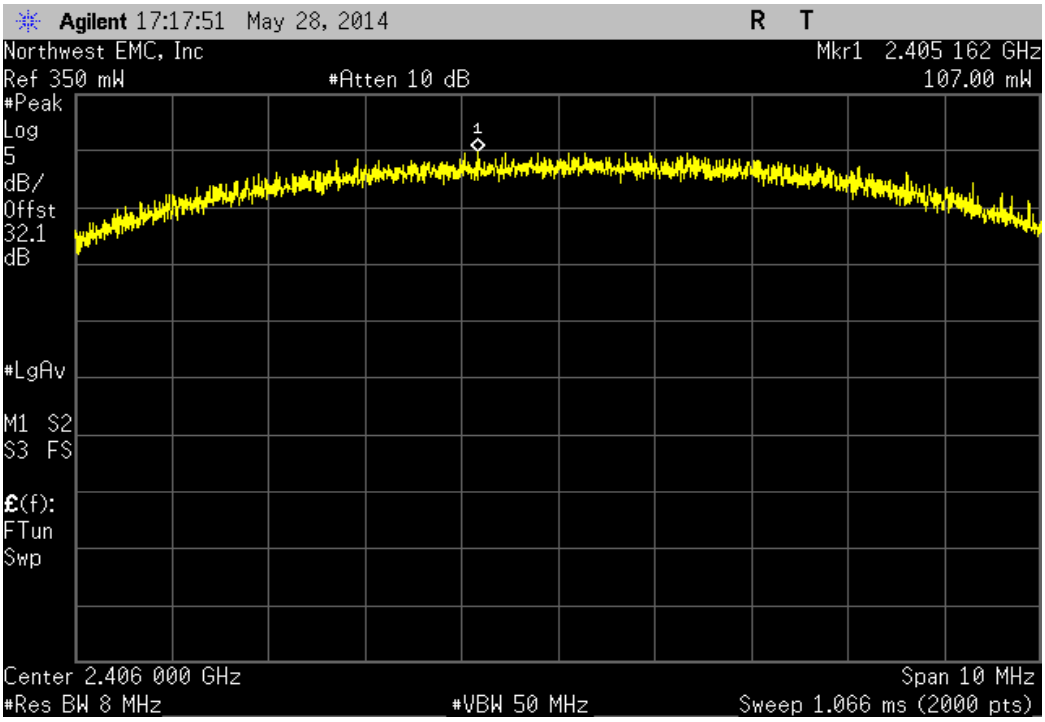
				Value	Limit	Result
				96.561 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

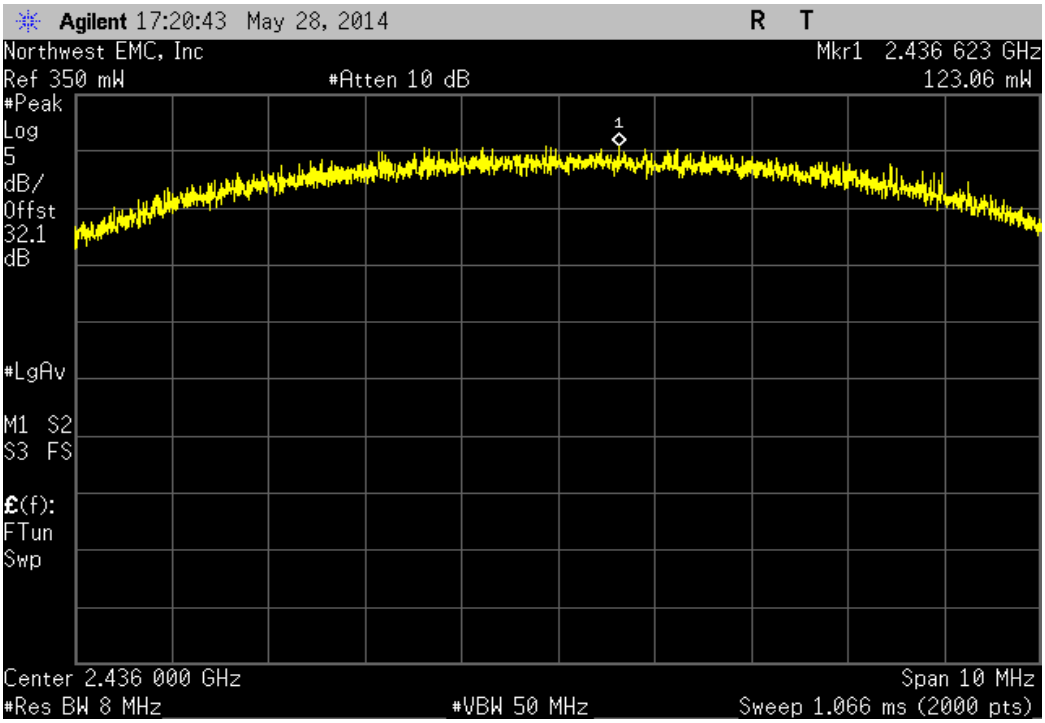
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Low Channel 2406 MHz

				Value	Limit	Result
				107.004 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2436 MHz

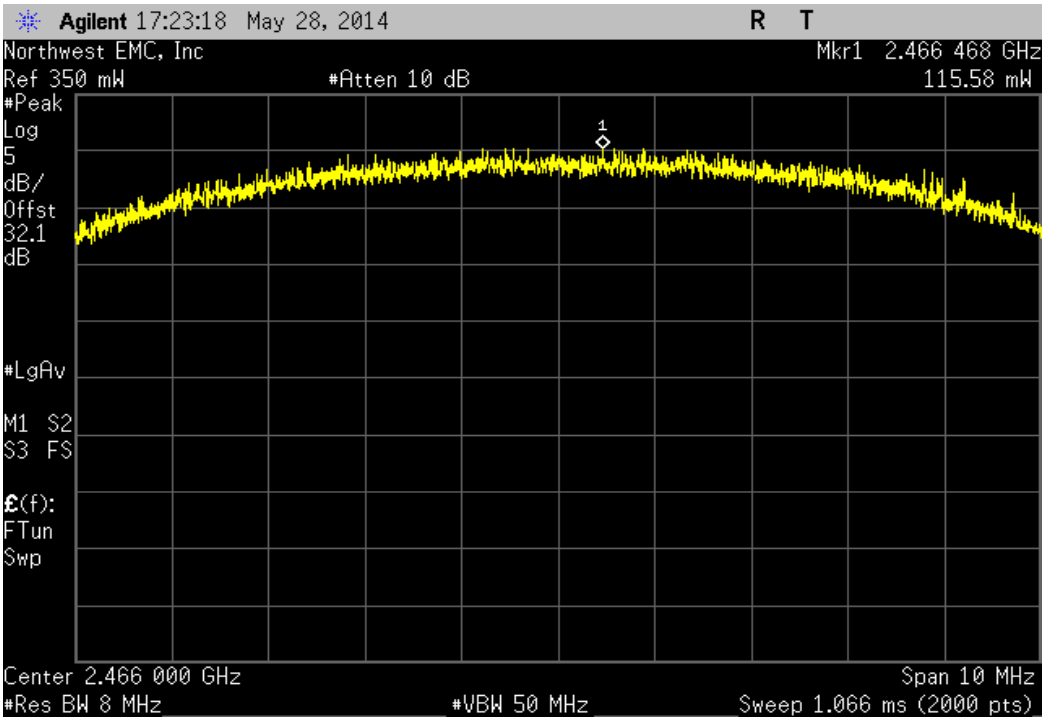
				Value	Limit	Result
				123.055 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

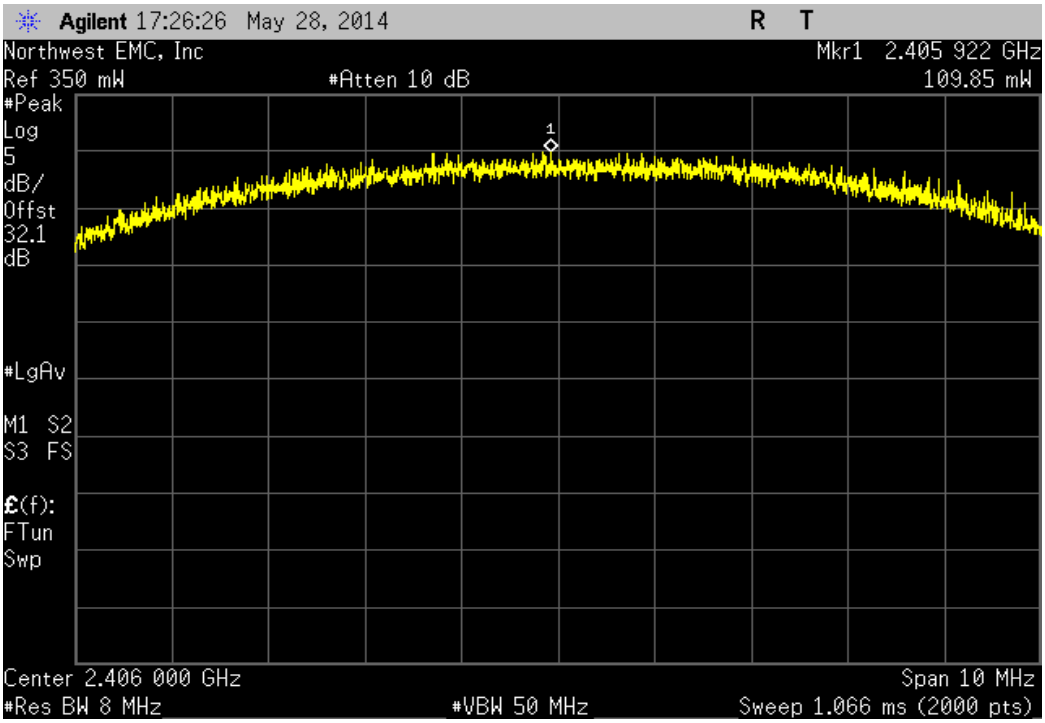
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS16, High Channel 2466 MHz

				Value	Limit	Result
				115.585 mW	< 1 W	Pass



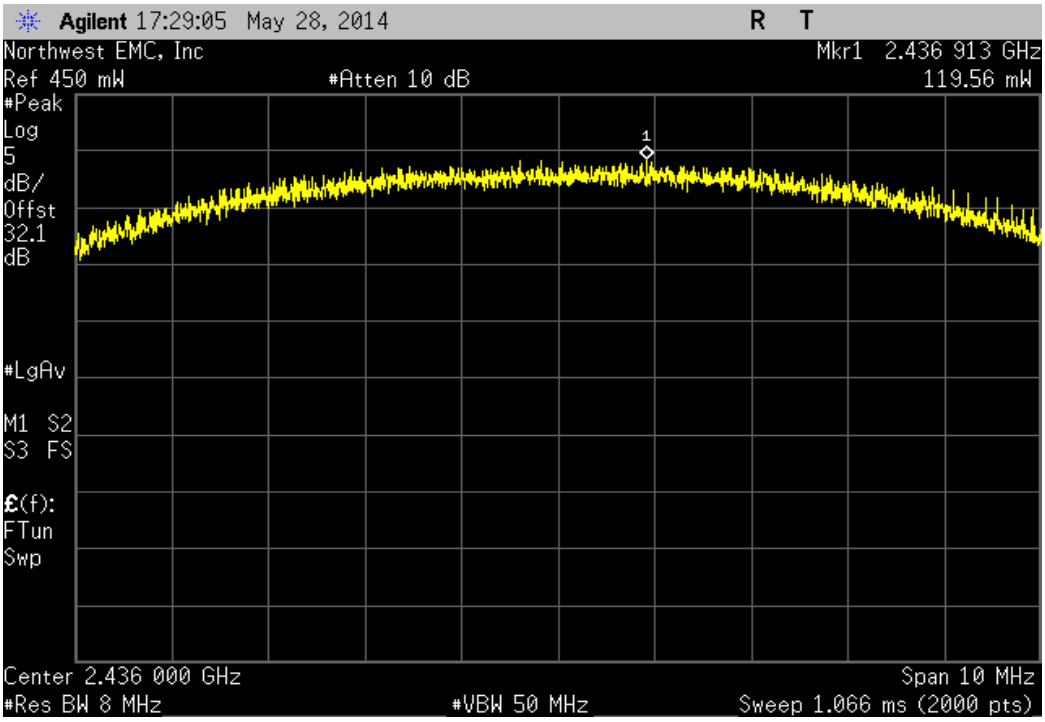
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Low Channel 2406 MHz

				Value	Limit	Result
				109.85 mW	< 1 W	Pass

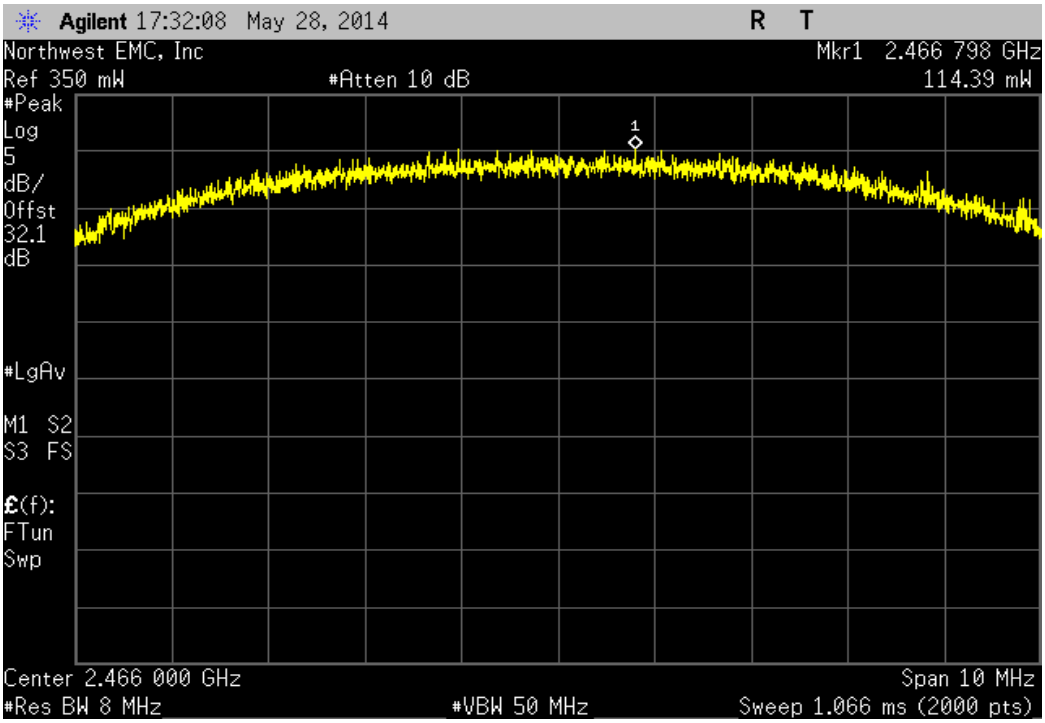


OUTPUT POWER - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2436 MHz						
				Value	Limit	Result
				119.564 mW	< 1 W	Pass



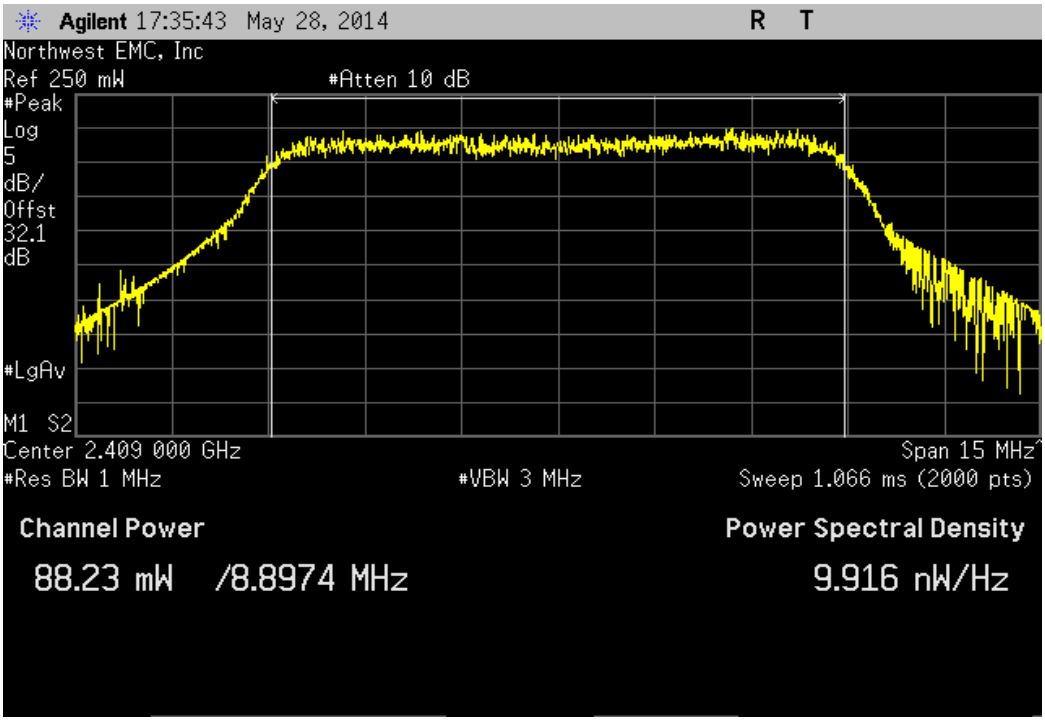
Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS23, High Channel 2466 MHz						
				Value	Limit	Result
				114.393 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

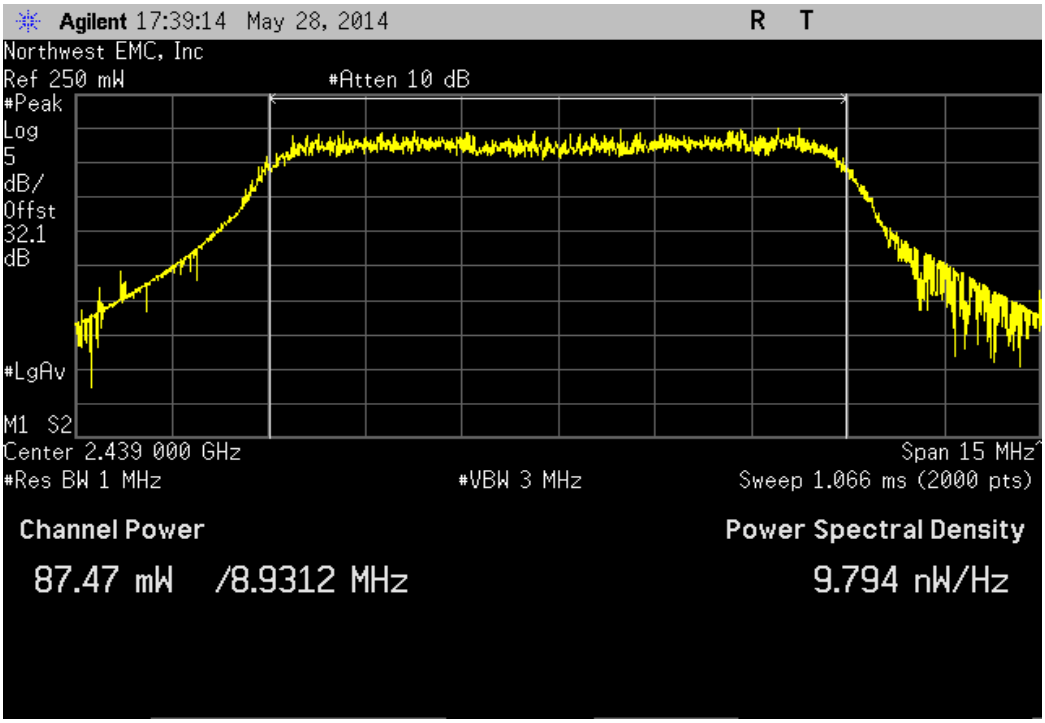
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Low Channel 2409 MHz

				Value	Limit	Result
				88.226 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, Mid Channel 2439 MHz

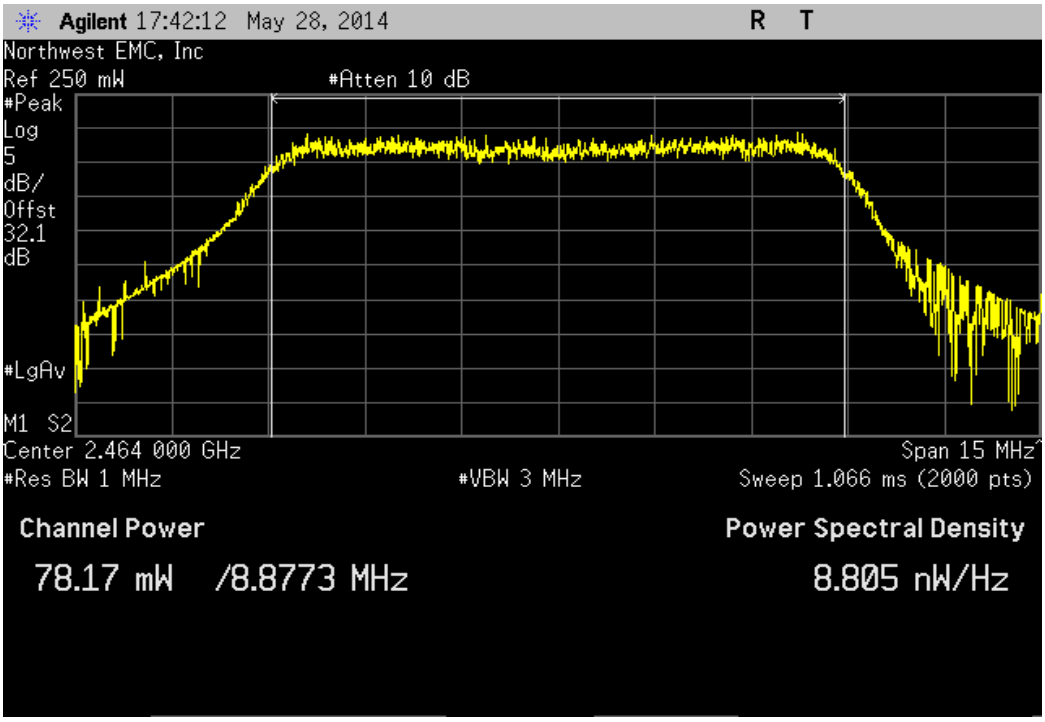
				Value	Limit	Result
				87.474 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

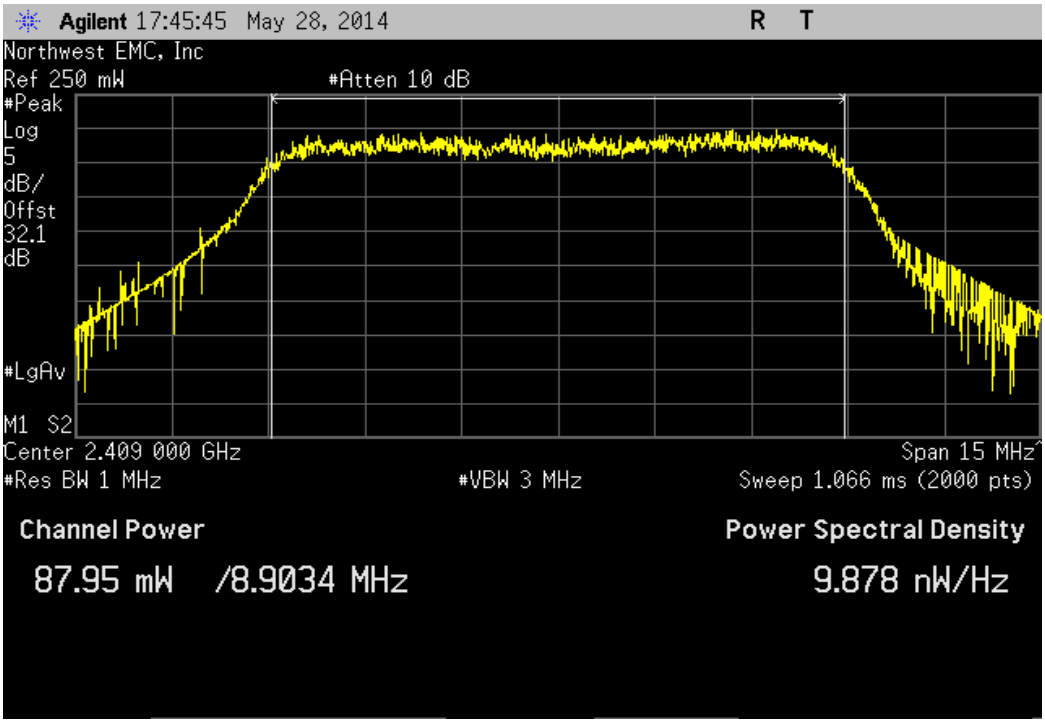
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS16, High Channel 2464 MHz

				Value	Limit	Result
				78.166 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Low Channel 2409 MHz

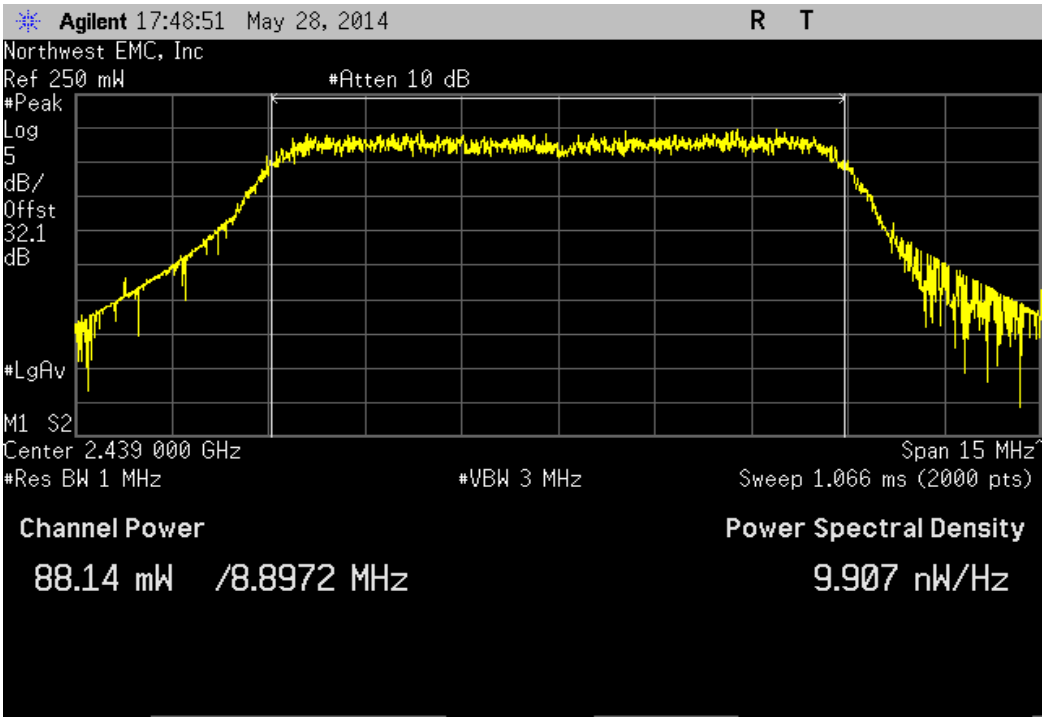
				Value	Limit	Result
				87.947 mW	< 1 W	Pass



OUTPUT POWER - 3x3 MIMO

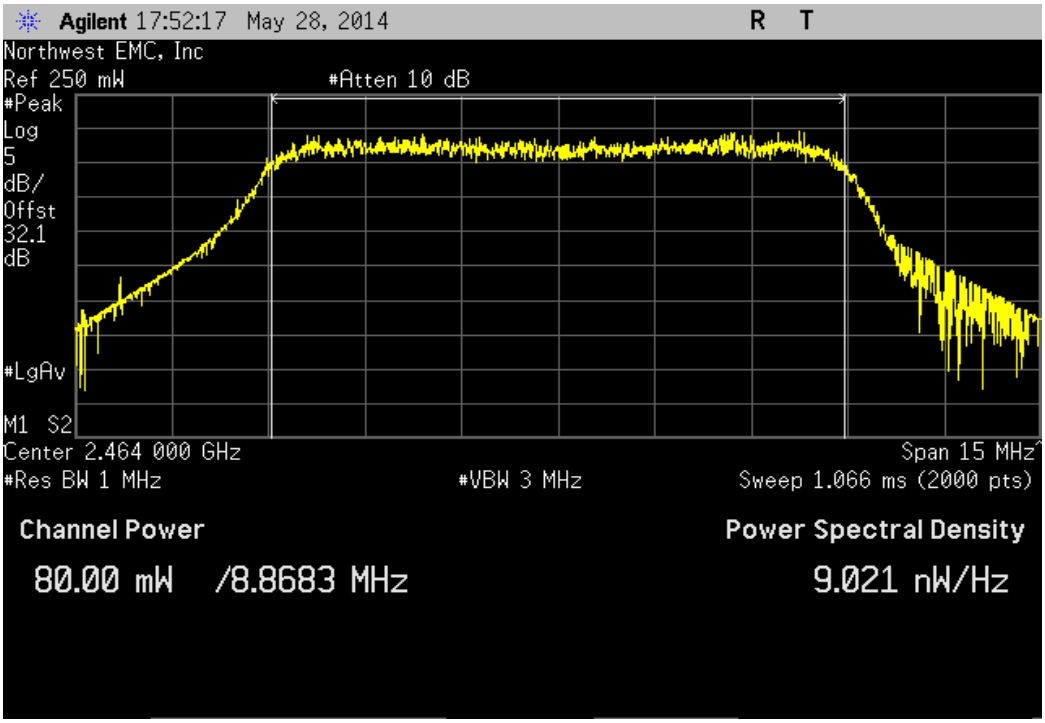
Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, Mid Channel 2439 MHz

				Value	Limit	Result
				88.144 mW	< 1 W	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS23, High Channel 2464 MHz

				Value	Limit	Result
				80.001 mW	< 1 W	Pass



POWER SPECTRAL DENSITY - SISO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 5.3.1, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

BWCF = 10*LOG (3 kHz / 100 kHz) = -15.2 dB

POWER SPECTRAL DENSITY - SISO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

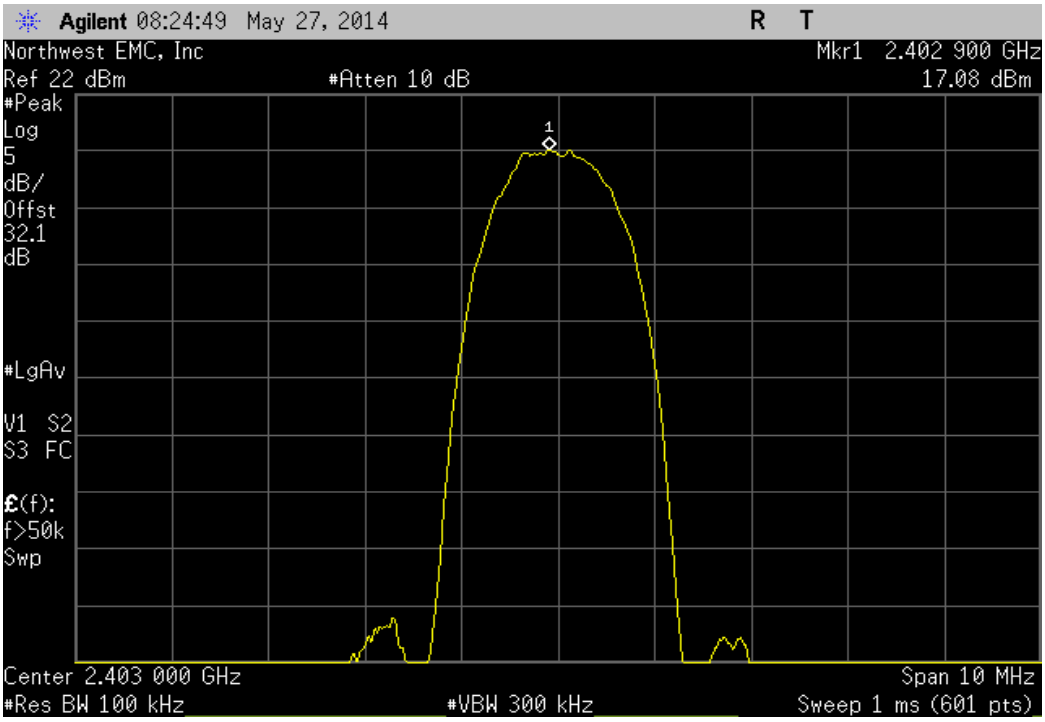
Configuration #	1	Signature

	Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
Modulation Type, DBPSK.					
Low Channel 2403 MHz	17.079	-15.2	1.879	8	Pass
Mid Channel 2435 MHz	15.991	-15.2	0.791	8	Pass
High Channel 2470 MHz	14.825	-15.2	-0.375	8	Pass
Modulation Type, QPSK.					
Low Channel 2403 MHz	20.561	-15.2	5.361	8	Pass
Mid Channel 2435 MHz	19.486	-15.2	4.286	8	Pass
High Channel 2470 MHz	18.604	-15.2	3.404	8	Pass
Modulation Type, BPSK, Coding Rate, 1/2					
Low Channel 2403 MHz	14.063	-15.2	-1.137	8	Pass
Mid Channel 2435 MHz	13.879	-15.2	-1.321	8	Pass
High Channel 2470 MHz	12.388	-15.2	-2.812	8	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.					
Low Channel 2403 MHz	12.426	-15.2	-2.774	8	Pass
Mid Channel 2435 MHz	11.362	-15.2	-3.838	8	Pass
High Channel 2470 MHz	10.44	-15.2	-4.76	8	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.					
Low Channel 2403 MHz	12.558	-15.2	-2.642	8	Pass
Mid Channel 2435 MHz	11.312	-15.2	-3.888	8	Pass
High Channel 2470 MHz	10.445	-15.2	-4.755	8	Pass
Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	12.673	-15.2	-2.527	8	Pass
Mid Channel 2435 MHz	10.586	-15.2	-4.614	8	Pass
High Channel 2470 MHz	9.861	-15.2	-5.339	8	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	11.043	-15.2	-4.157	8	Pass
Mid Channel 2435 MHz	10.325	-15.2	-4.875	8	Pass
High Channel 2470 MHz	9.893	-15.2	-5.307	8	Pass
5MHz Bandwidth					
Modulation Type, DBPSK.					
Low Channel 2406 MHz	15.071	-15.2	-0.129	8	Pass
Mid Channel 2436 MHz	14.064	-15.2	-1.136	8	Pass
High Channel 2466 MHz	13.509	-15.2	-1.691	8	Pass
Modulation Type, QPSK.					
Low Channel 2406 MHz	18.246	-15.2	3.046	8	Pass
Mid Channel 2436 MHz	17.431	-15.2	2.231	8	Pass
High Channel 2466 MHz	16.533	-15.2	1.333	8	Pass
Modulation Type, BPSK, Coding Rate, 1/2					
Low Channel 2406 MHz	9.144	-15.2	-6.056	8	Pass
Mid Channel 2436 MHz	8.38	-15.2	-6.82	8	Pass
High Channel 2466 MHz	7.276	-15.2	-7.924	8	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.					
Low Channel 2406 MHz	9.699	-15.2	-5.501	8	Pass
Mid Channel 2436 MHz	8.837	-15.2	-6.363	8	Pass
High Channel 2466 MHz	8.344	-15.2	-6.856	8	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.					
Low Channel 2406 MHz	9.648	-15.2	-5.552	8	Pass
Mid Channel 2436 MHz	8.922	-15.2	-6.278	8	Pass
High Channel 2466 MHz	7.389	-15.2	-7.811	8	Pass
Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	9.283	-15.2	-5.917	8	Pass
Mid Channel 2436 MHz	8.47	-15.2	-6.73	8	Pass
High Channel 2466 MHz	7.203	-15.2	-7.997	8	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	9.627	-15.2	-5.573	8	Pass
Mid Channel 2436 MHz	7.94	-15.2	-7.26	8	Pass
High Channel 2466 MHz	6.838	-15.2	-8.362	8	Pass
10MHz Bandwidth					
Modulation Type, DBPSK.					
Low Channel 2409 MHz	13.769	-15.2	-1.431	8	Pass
Mid Channel 2439 MHz	12.632	-15.2	-2.568	8	Pass
High Channel 2464 MHz	12.269	-15.2	-2.931	8	Pass
Modulation Type, QPSK.					
Low Channel 2409 MHz	15.326	-15.2	0.126	8	Pass
Mid Channel 2439 MHz	14.115	-15.2	-1.085	8	Pass
High Channel 2464 MHz	13.824	-15.2	-1.376	8	Pass

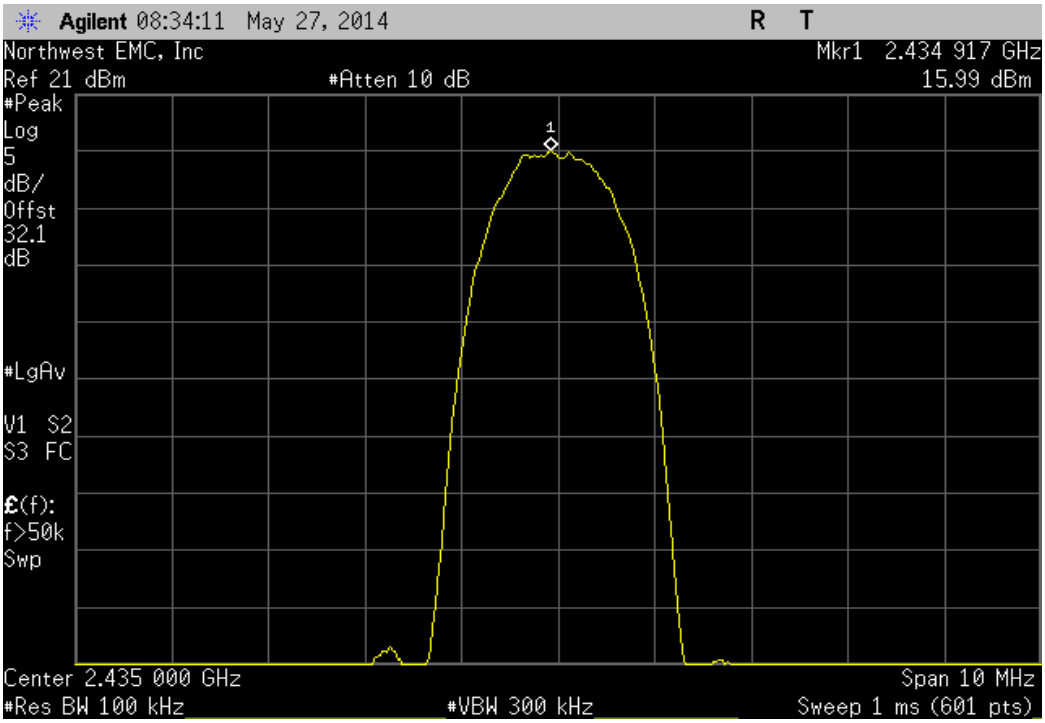
Modulation Type, BPSK, Coding Rate, 1/2					
Low Channel 2409 MHz	12.904	-15.2	-2.296	8	Pass
Mid Channel 2439 MHz	12.048	-15.2	-3.152	8	Pass
High Channel 2464 MHz	11.083	-15.2	-4.117	8	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4.					
Low Channel 2409 MHz	13.292	-15.2	-1.908	8	Pass
Mid Channel 2439 MHz	12.358	-15.2	-2.842	8	Pass
High Channel 2464 MHz	12.24	-15.2	-2.96	8	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4.					
Low Channel 2409 MHz	13.635	-15.2	-1.565	8	Pass
Mid Channel 2439 MHz	12.077	-15.2	-3.123	8	Pass
High Channel 2464 MHz	11.823	-15.2	-3.377	8	Pass
Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	13.57	-15.2	-1.63	8	Pass
Mid Channel 2439 MHz	12.051	-15.2	-3.149	8	Pass
High Channel 2464 MHz	11.61	-15.2	-3.59	8	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	13.563	-15.2	-1.637	8	Pass
Mid Channel 2439 MHz	12.19	-15.2	-3.01	8	Pass
High Channel 2464 MHz	12.092	-15.2	-3.108	8	Pass

POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		17.079	-15.2	1.879	8	Pass

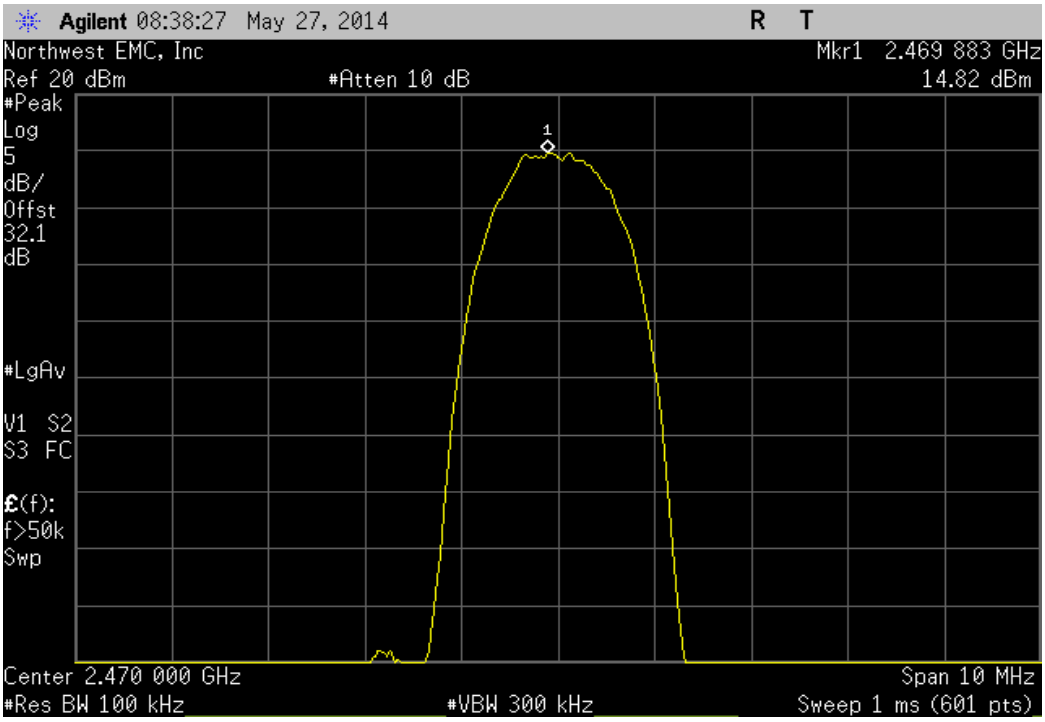


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		15.991	-15.2	0.791	8	Pass

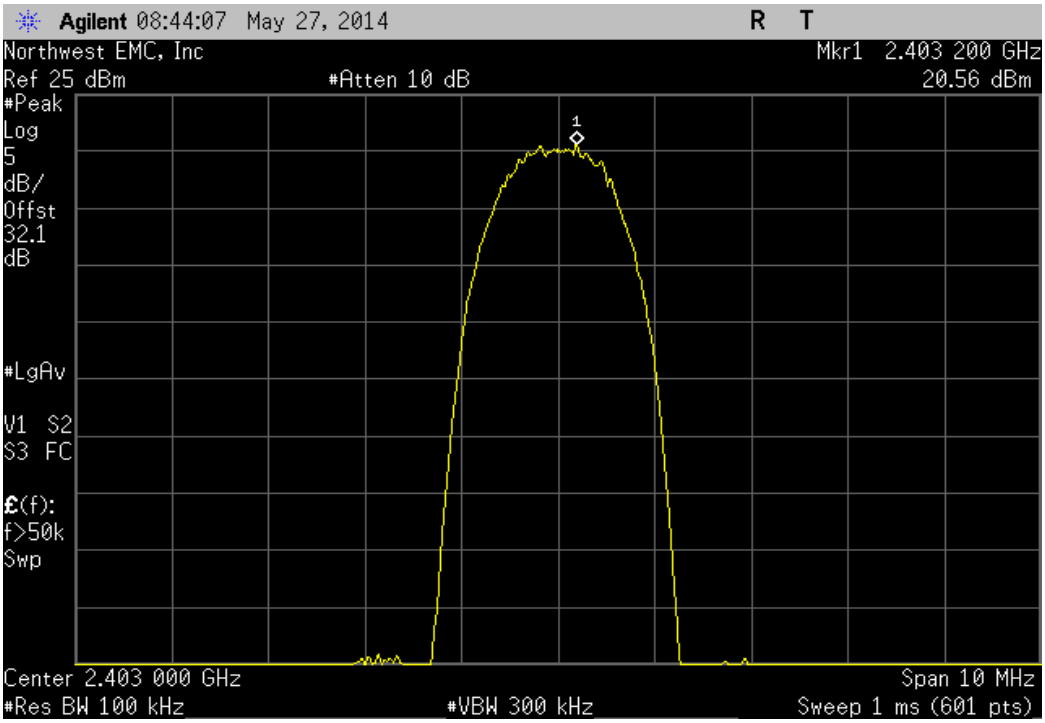


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		14.825	-15.2	-0.375	8	Pass

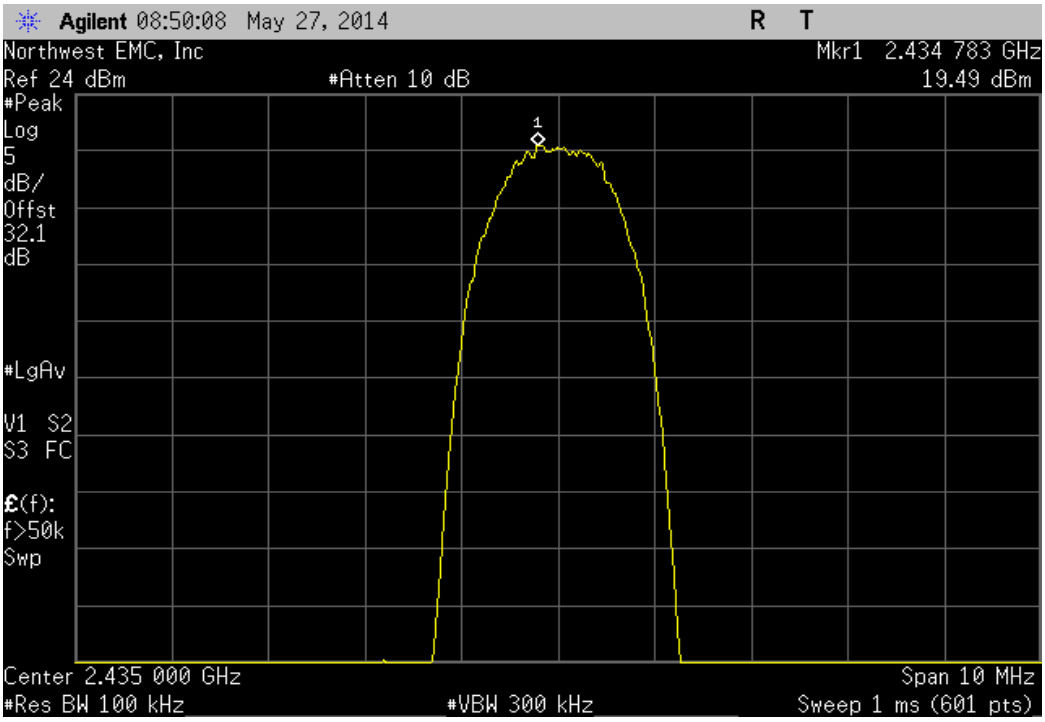


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		20.561	-15.2	5.361	8	Pass

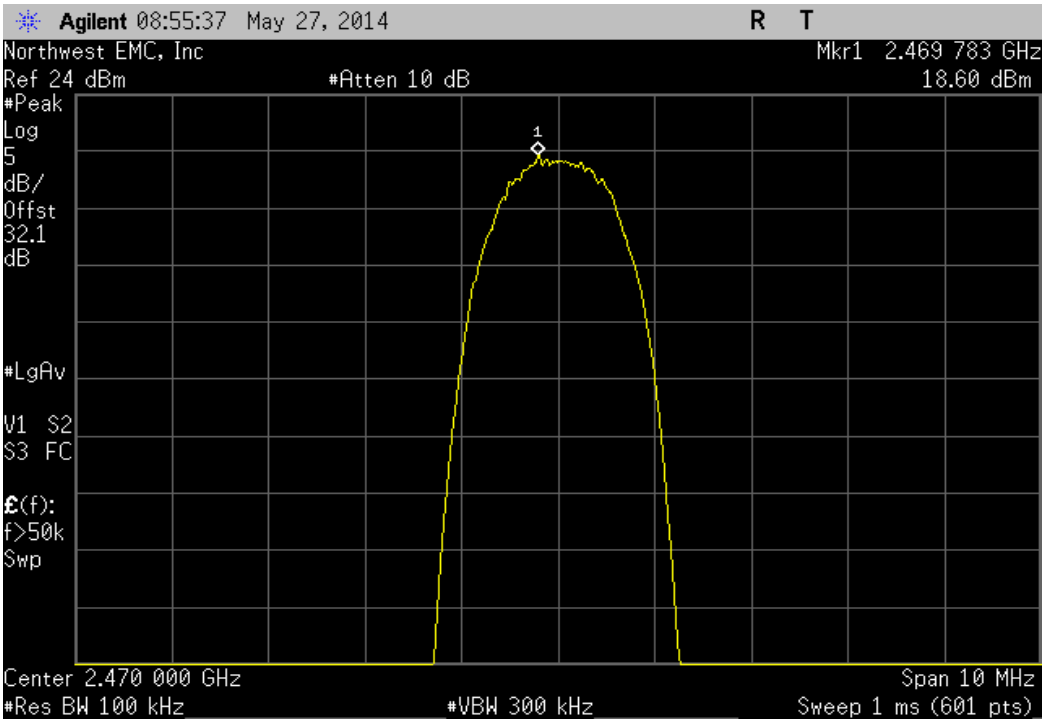


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		19.486	-15.2	4.286	8	Pass

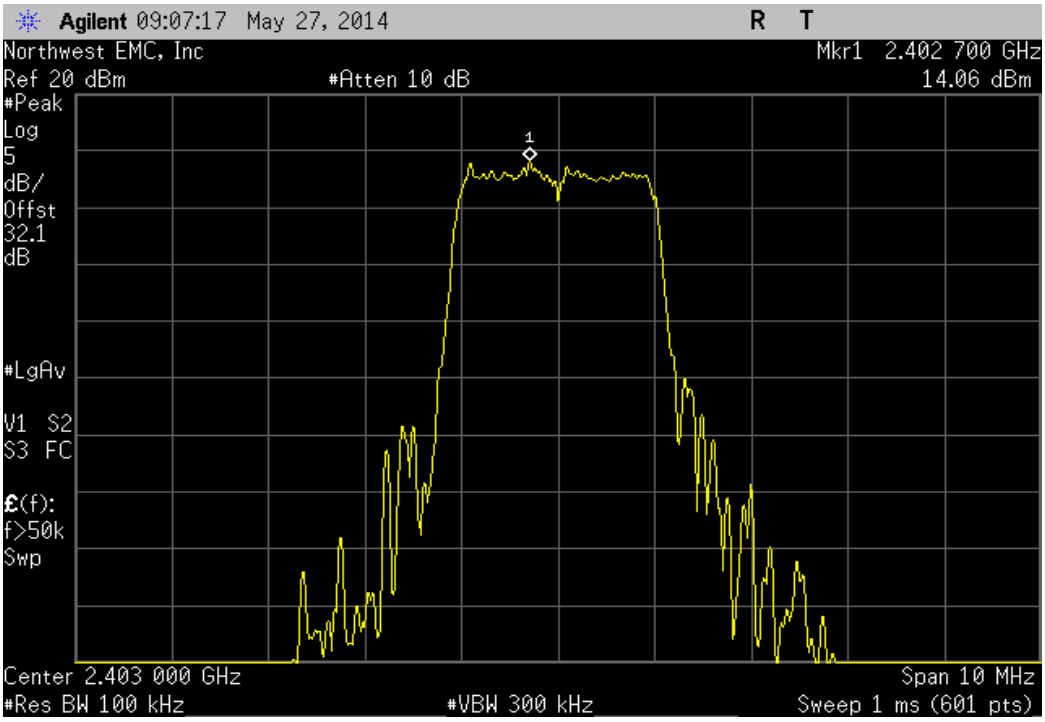


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, QPSK., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		18.604	-15.2	3.404	8	Pass

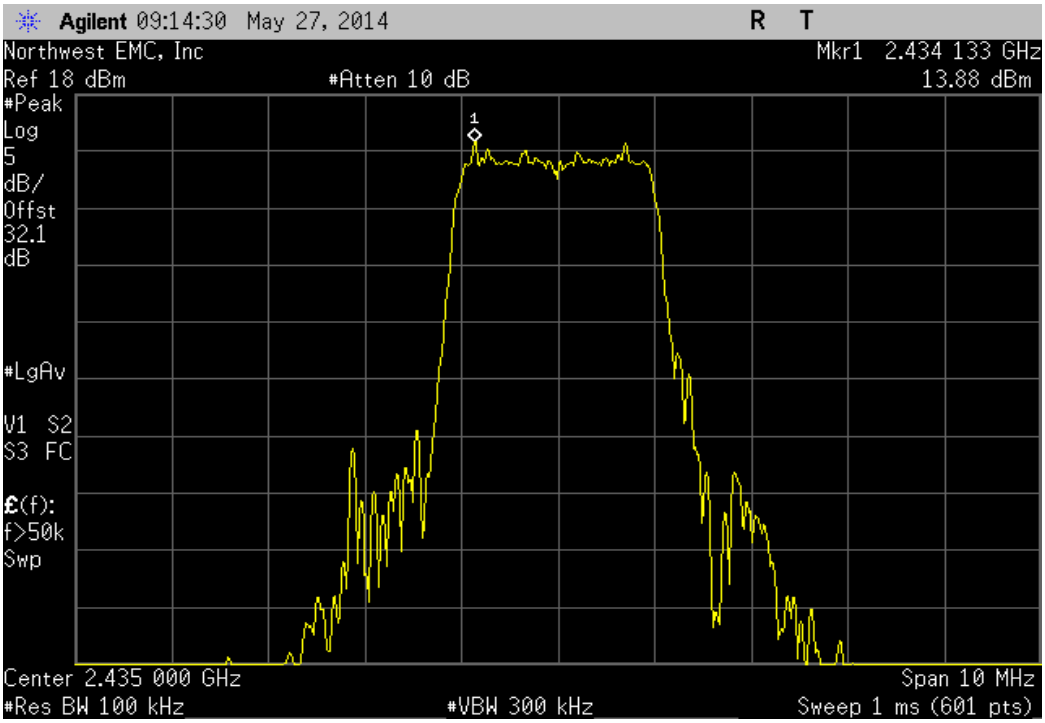


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		14.063	-15.2	-1.137	8	Pass

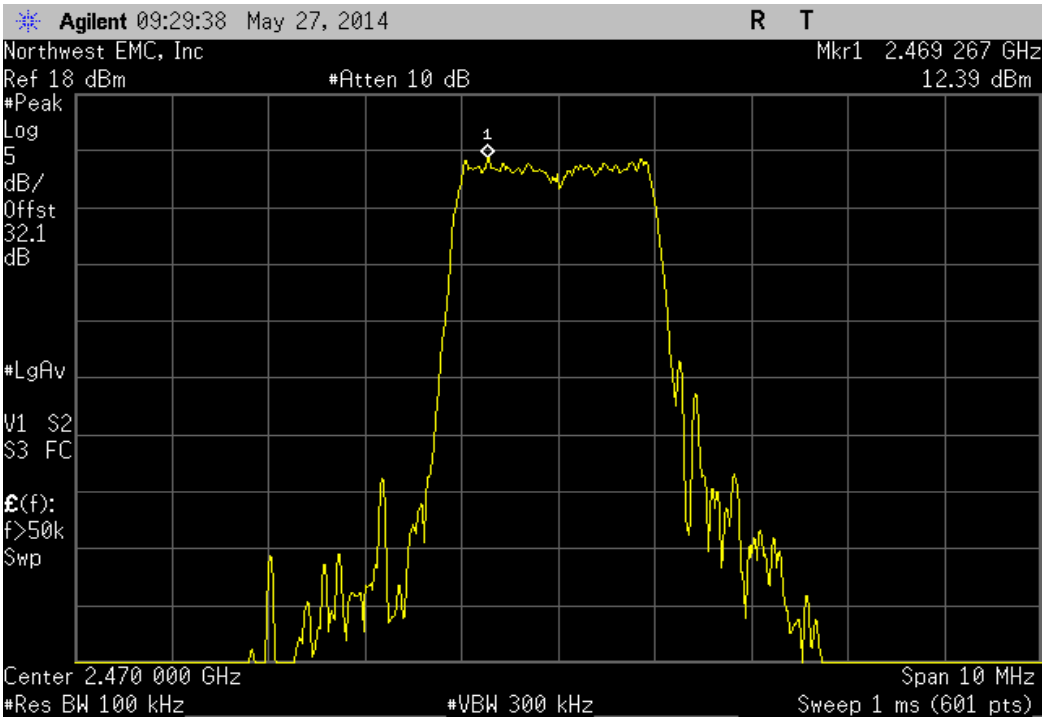


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.879	-15.2	-1.321	8	Pass

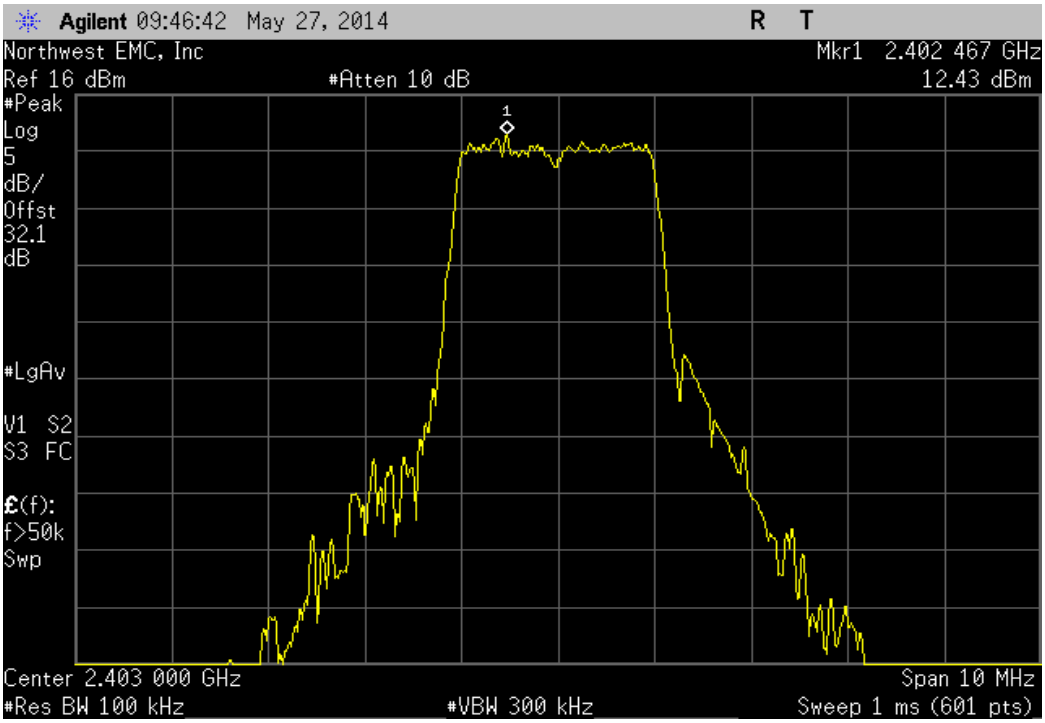


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.388	-15.2	-2.812	8	Pass

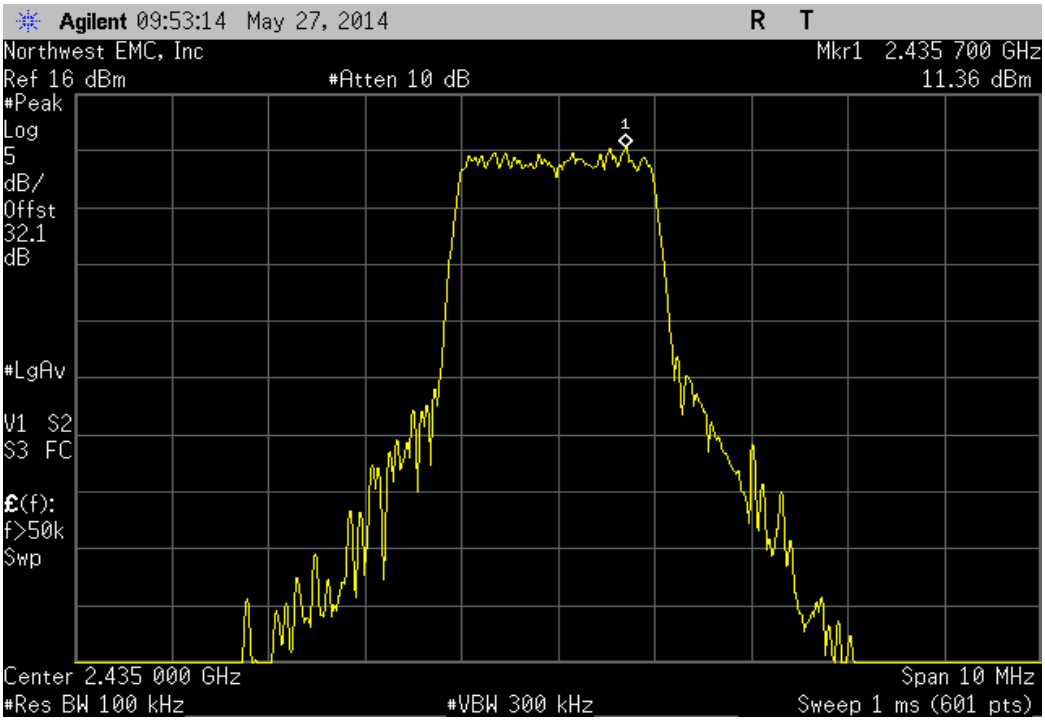


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.426	-15.2	-2.774	8	Pass

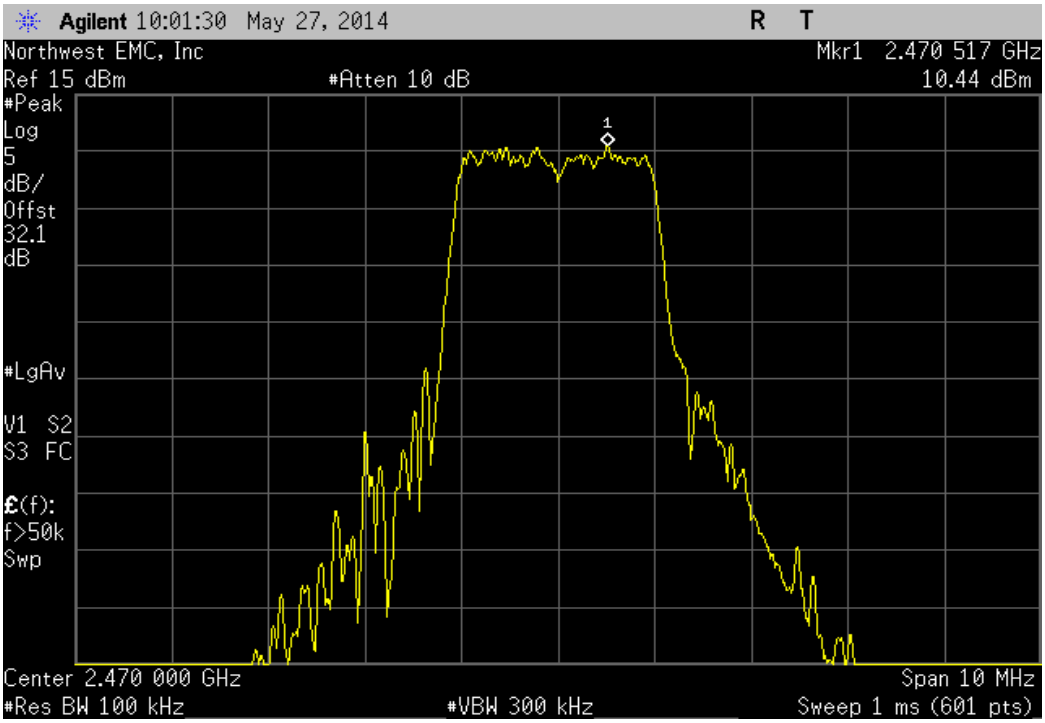


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.362	-15.2	-3.838	8	Pass

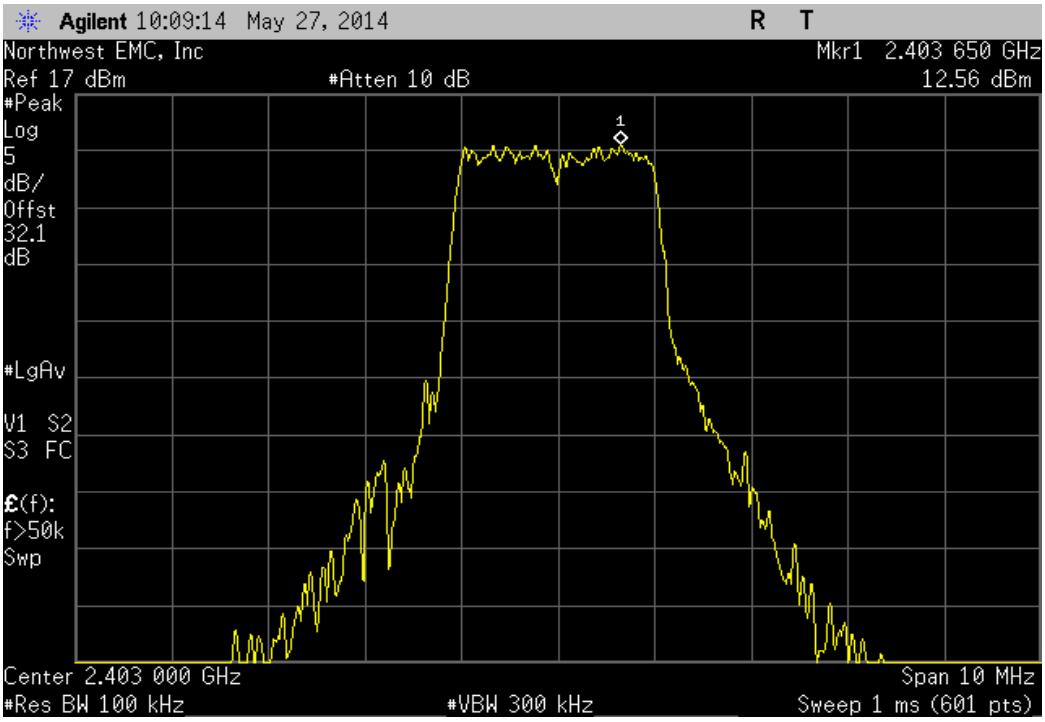


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.44	-15.2	-4.76	8	Pass

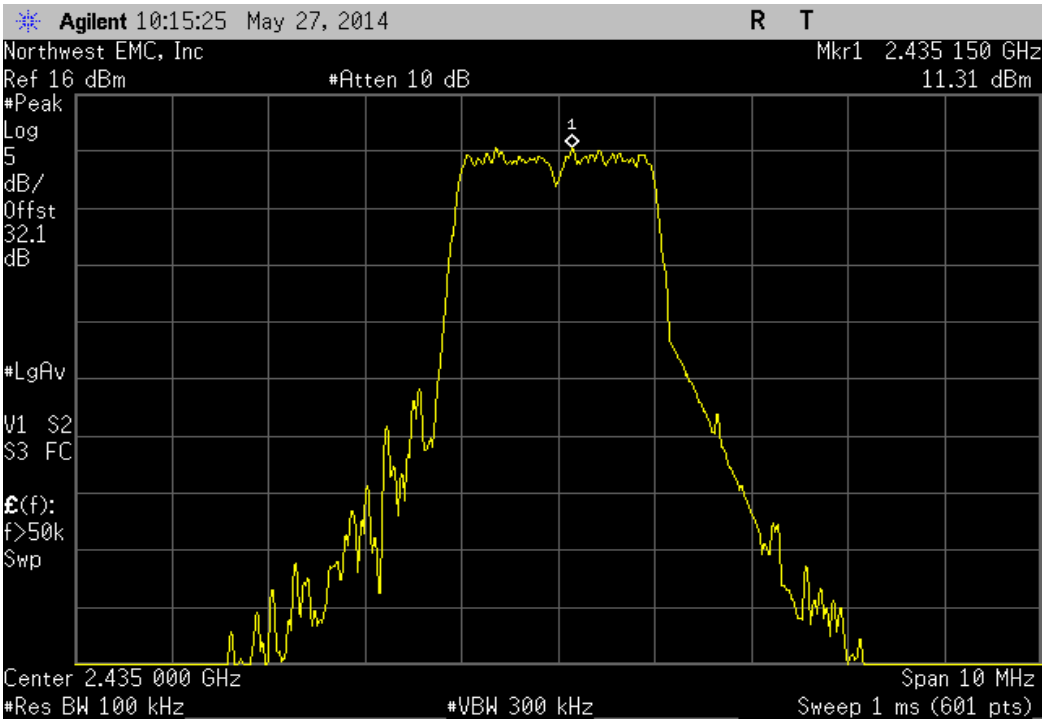


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.558	-15.2	-2.642	8	Pass

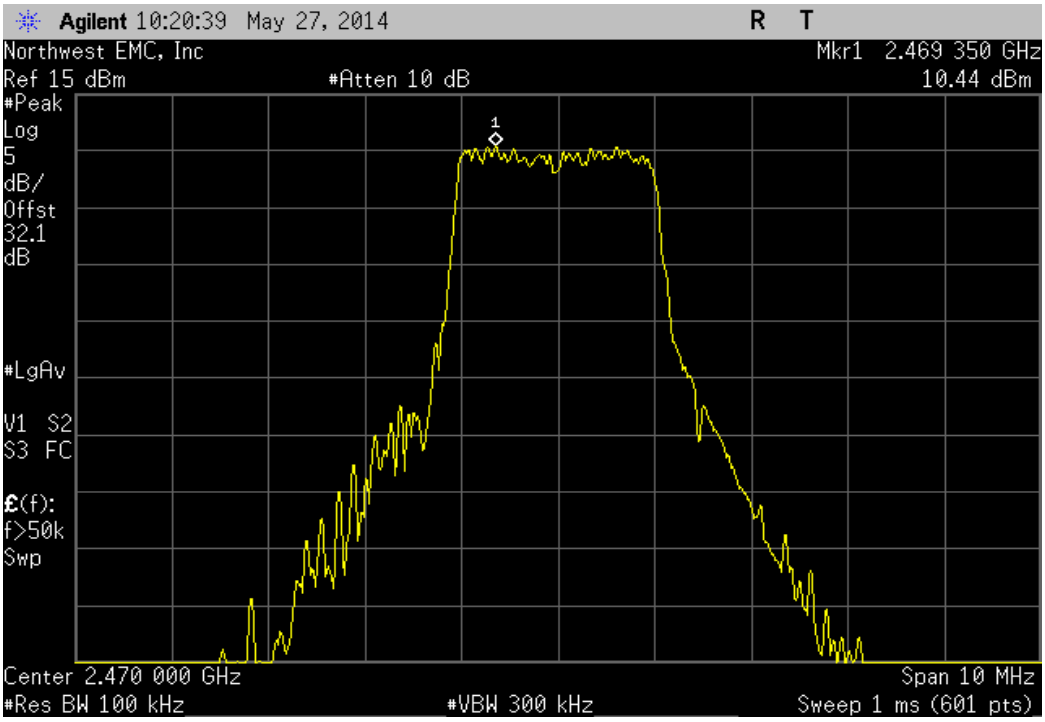


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.312	-15.2	-3.888	8	Pass

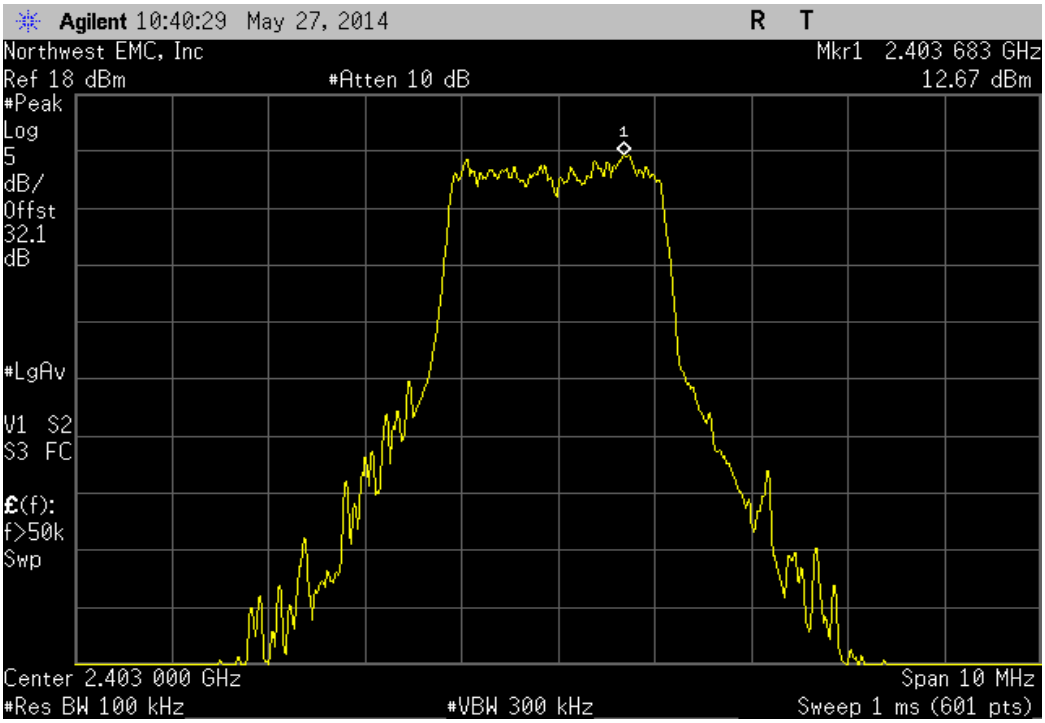


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.445	-15.2	-4.755	8	Pass

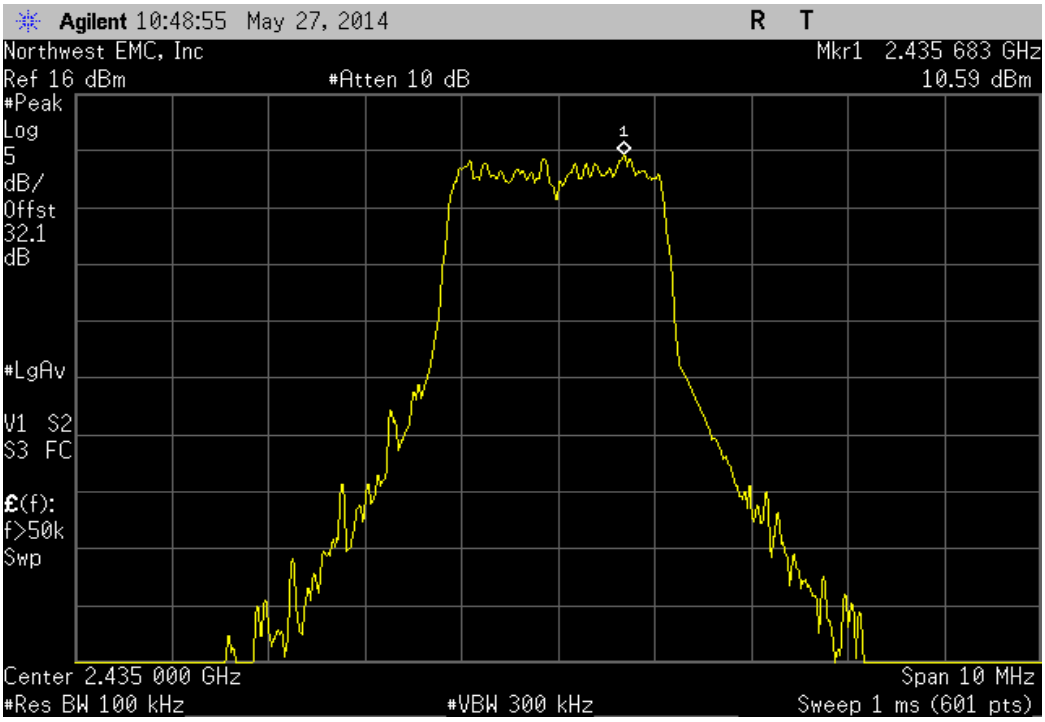


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.673	-15.2	-2.527	8	Pass

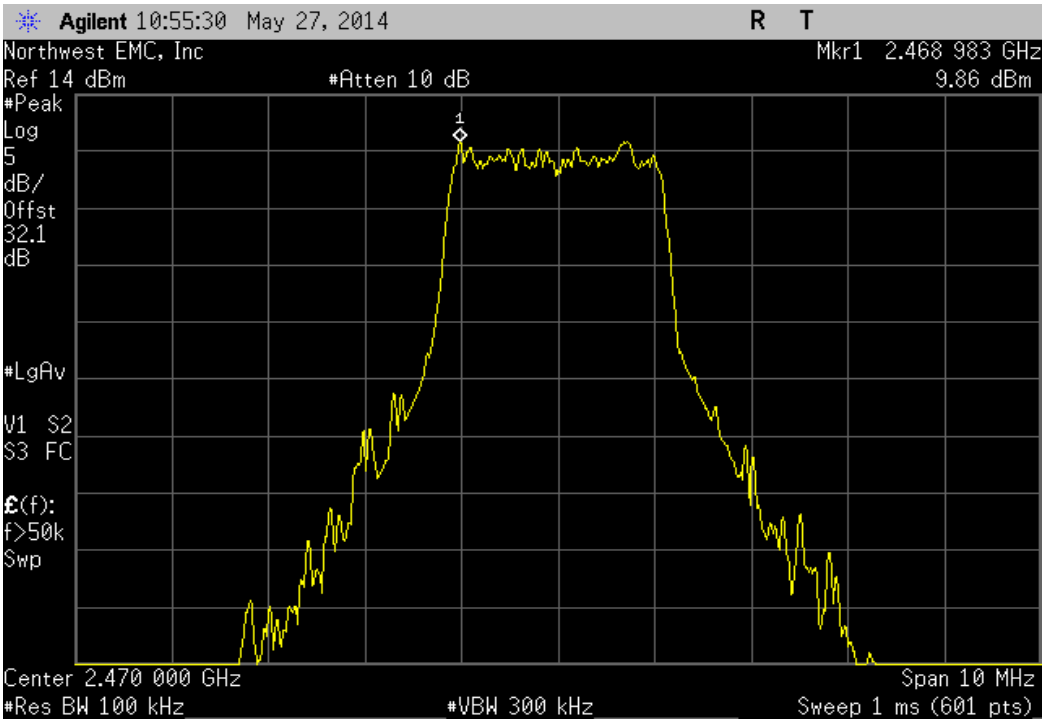


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.586	-15.2	-4.614	8	Pass

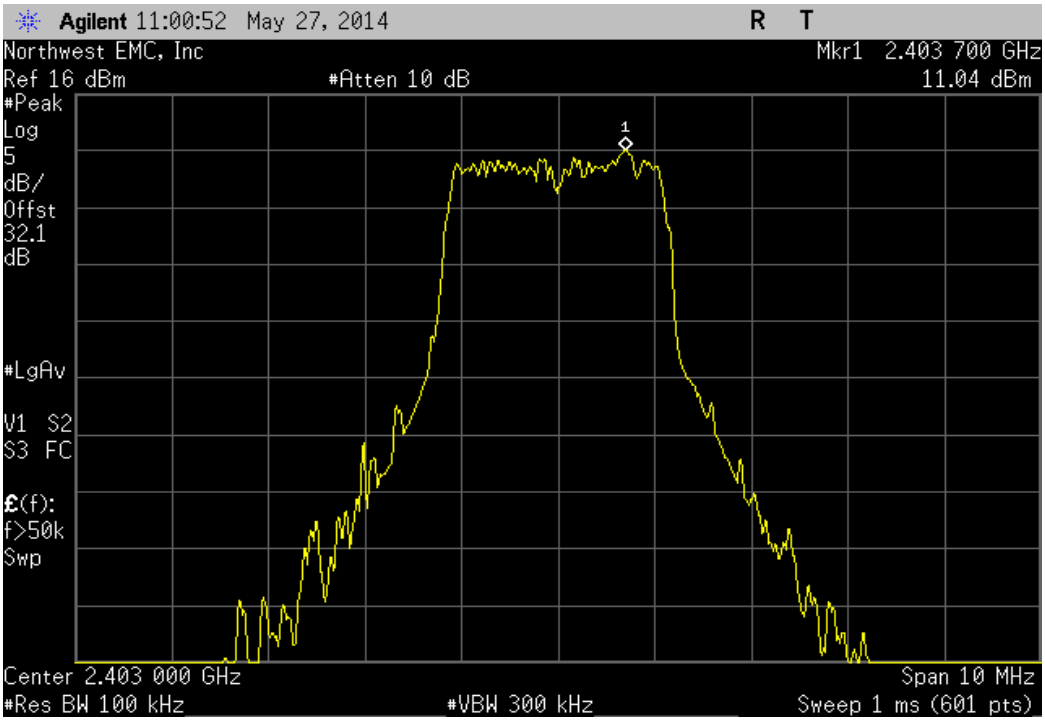


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.861	-15.2	-5.339	8	Pass

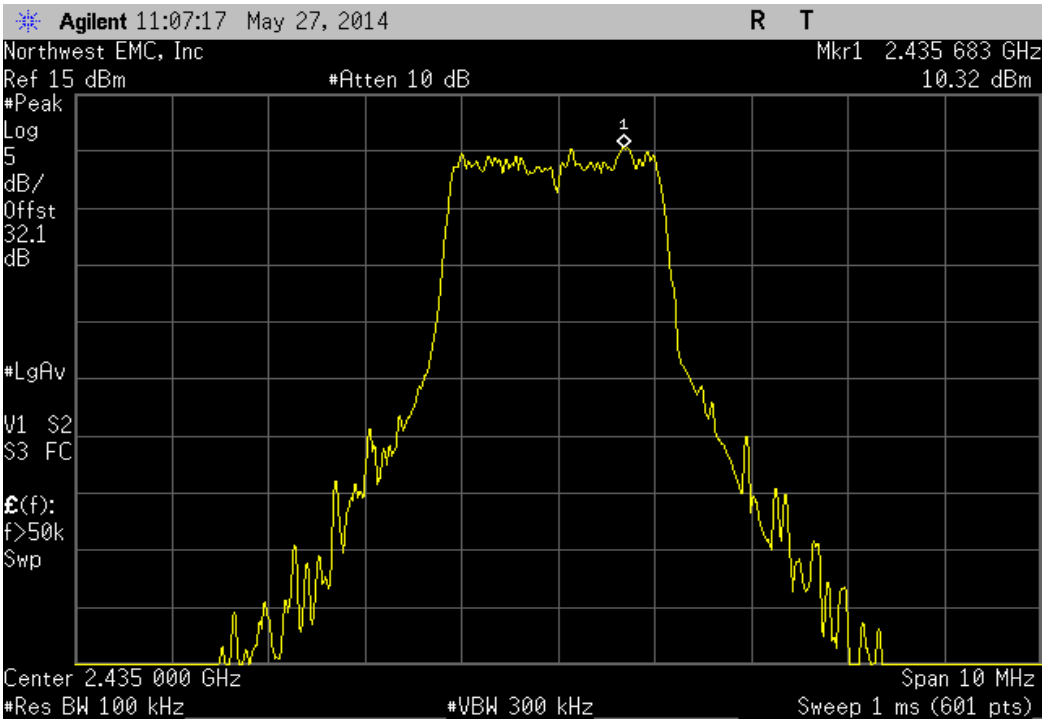


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.043	-15.2	-4.157	8	Pass

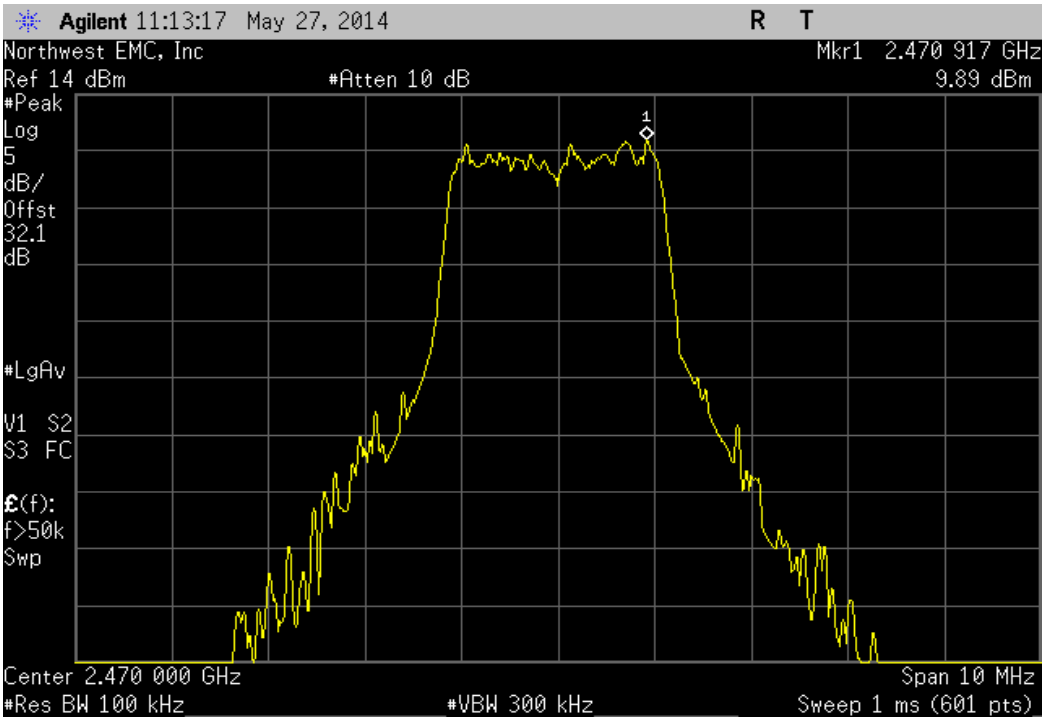


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.325	-15.2	-4.875	8	Pass

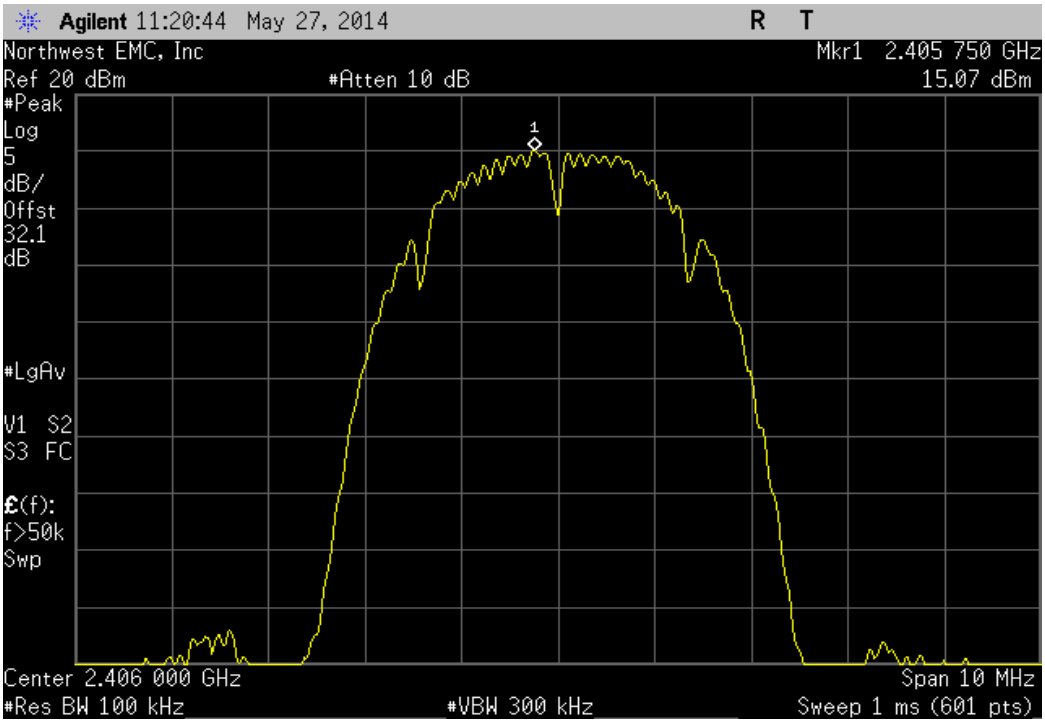


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.893	-15.2	-5.307	8	Pass

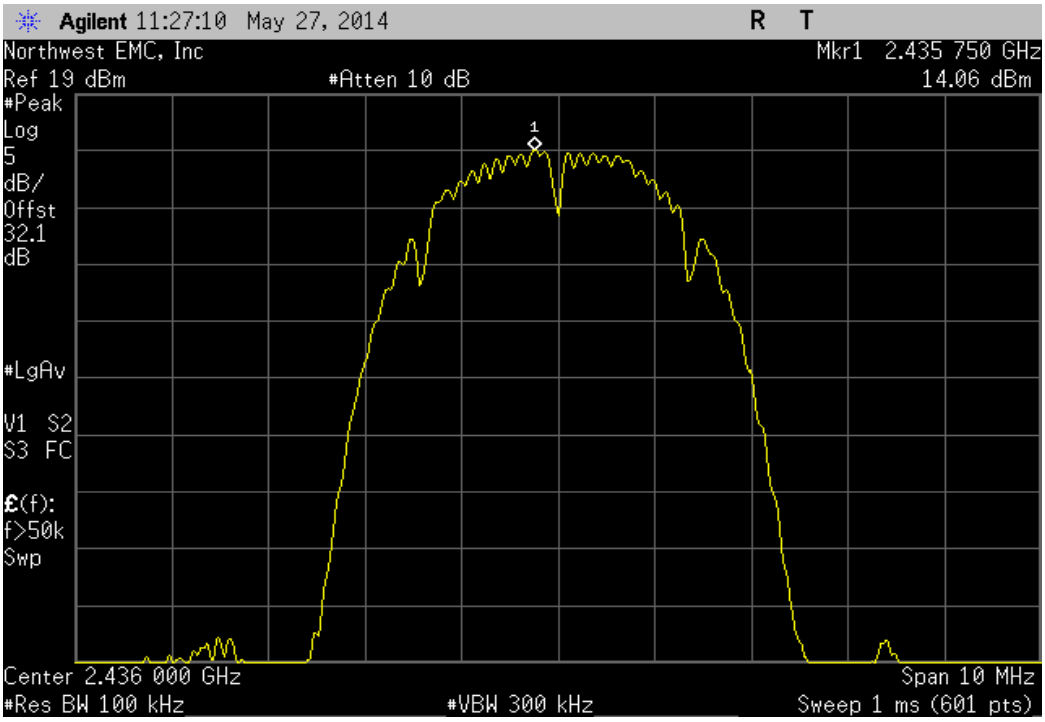


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		15.071	-15.2	-0.129	8	Pass

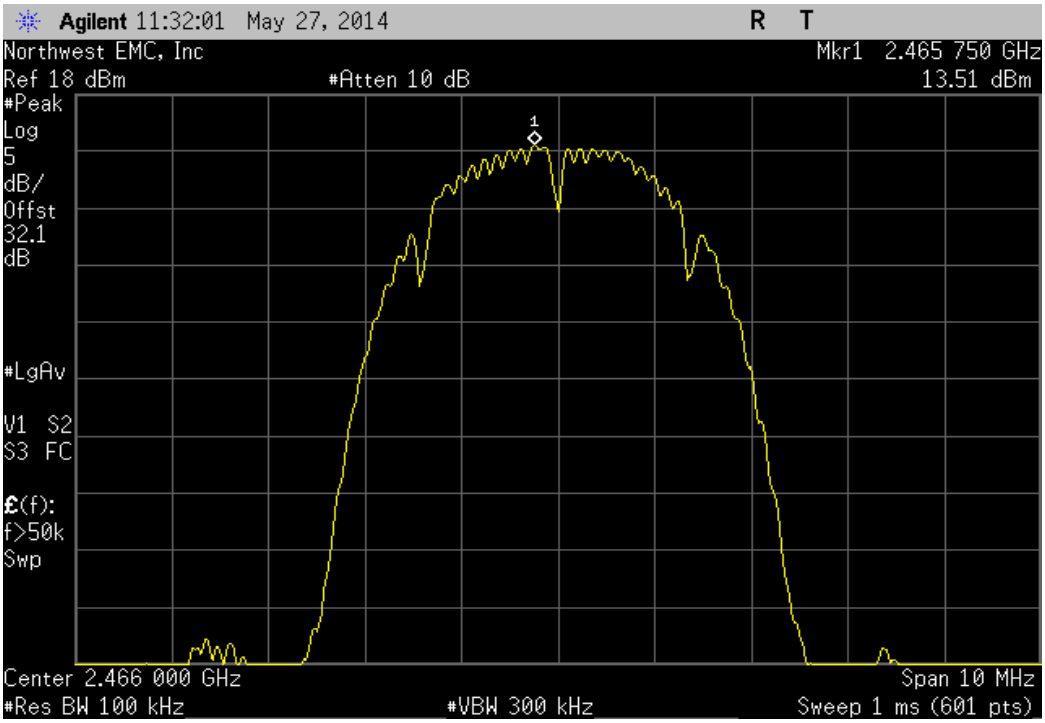


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		14.064	-15.2	-1.136	8	Pass

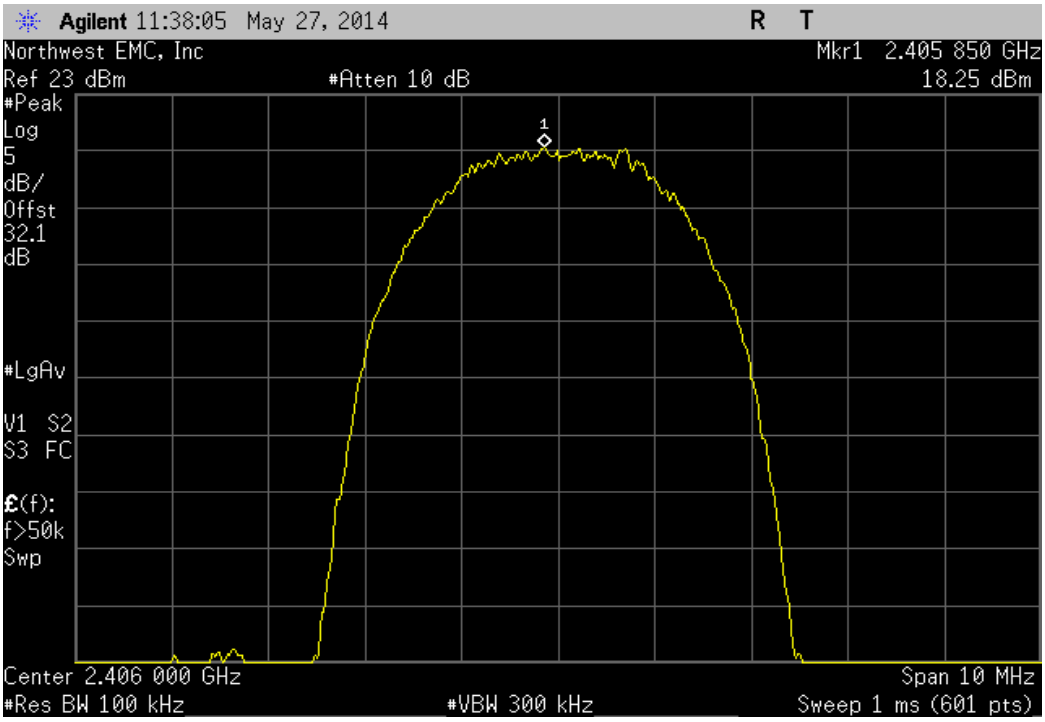


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, DBPSK., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.509	-15.2	-1.691	8	Pass

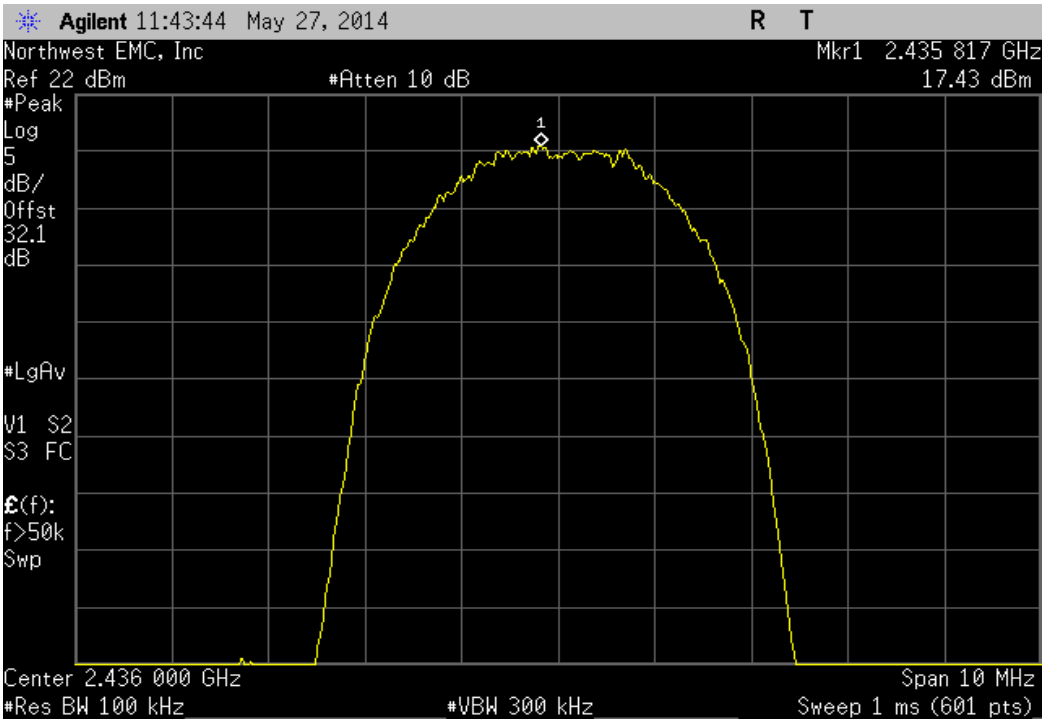


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		18.246	-15.2	3.046	8	Pass

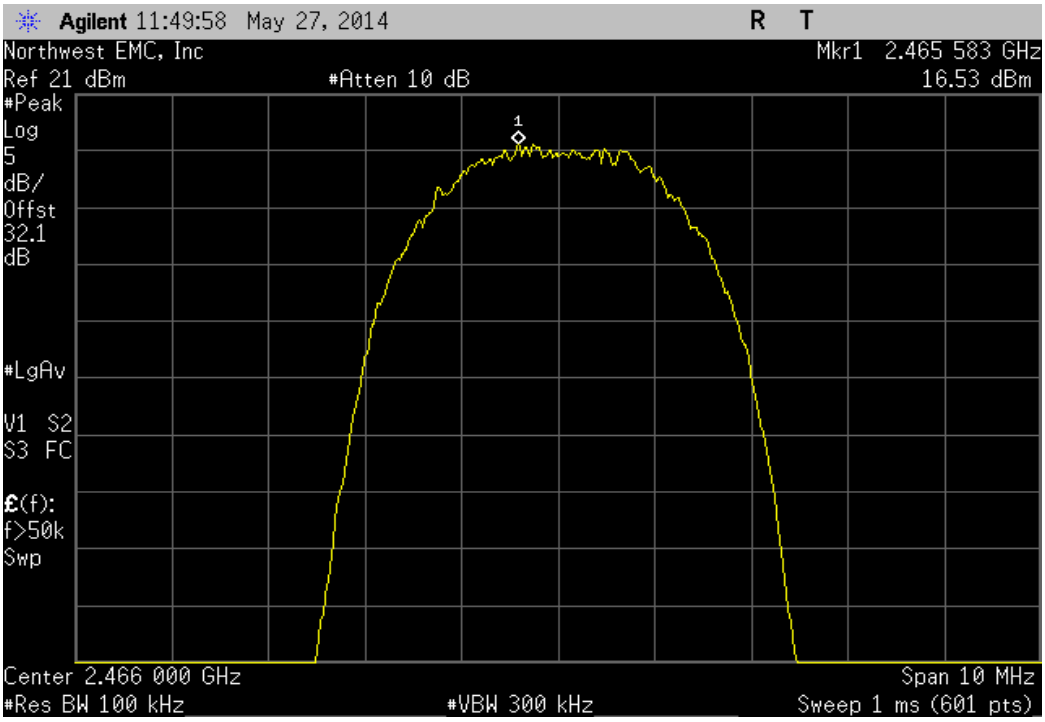


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		17.431	-15.2	2.231	8	Pass

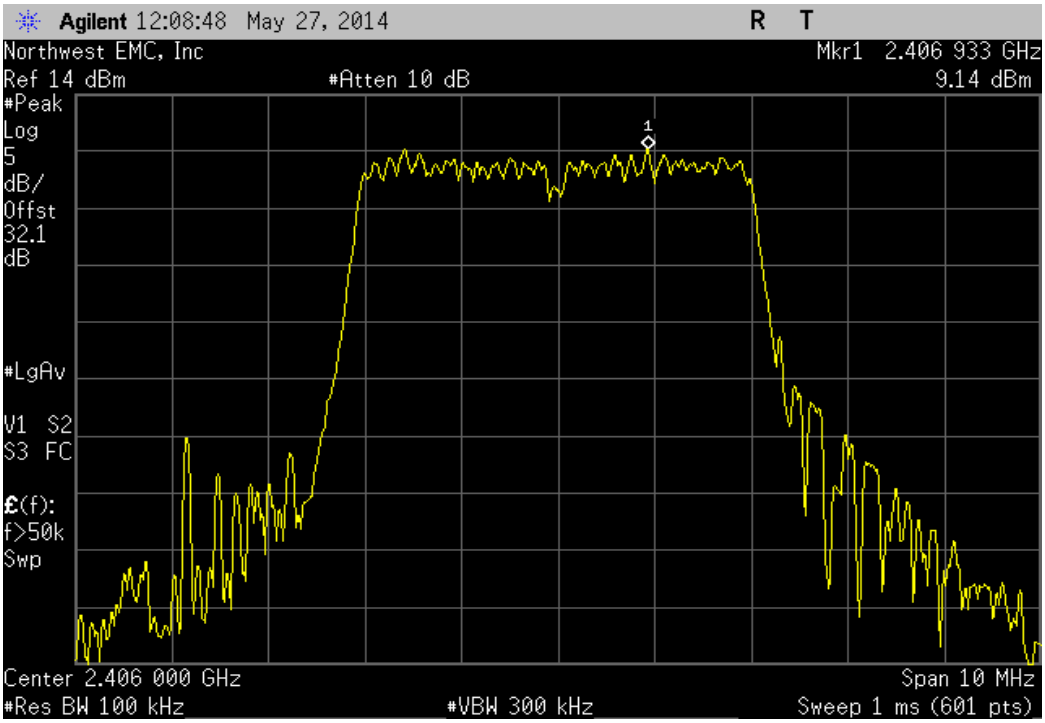


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, QPSK., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		16.533	-15.2	1.333	8	Pass

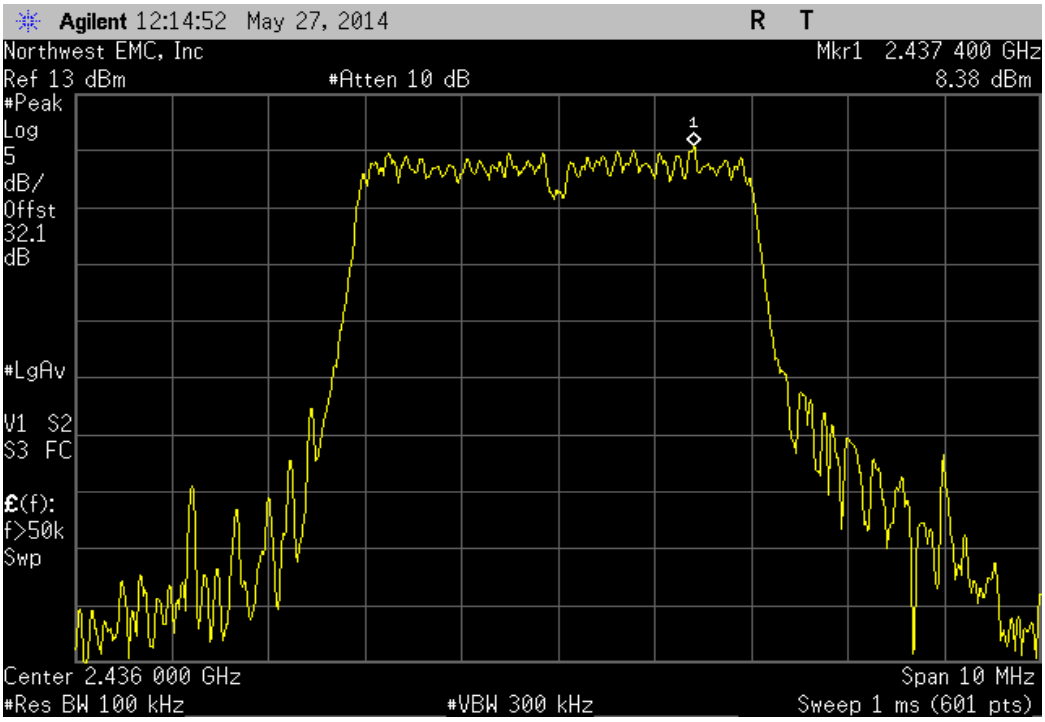


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.144	-15.2	-6.056	8	Pass

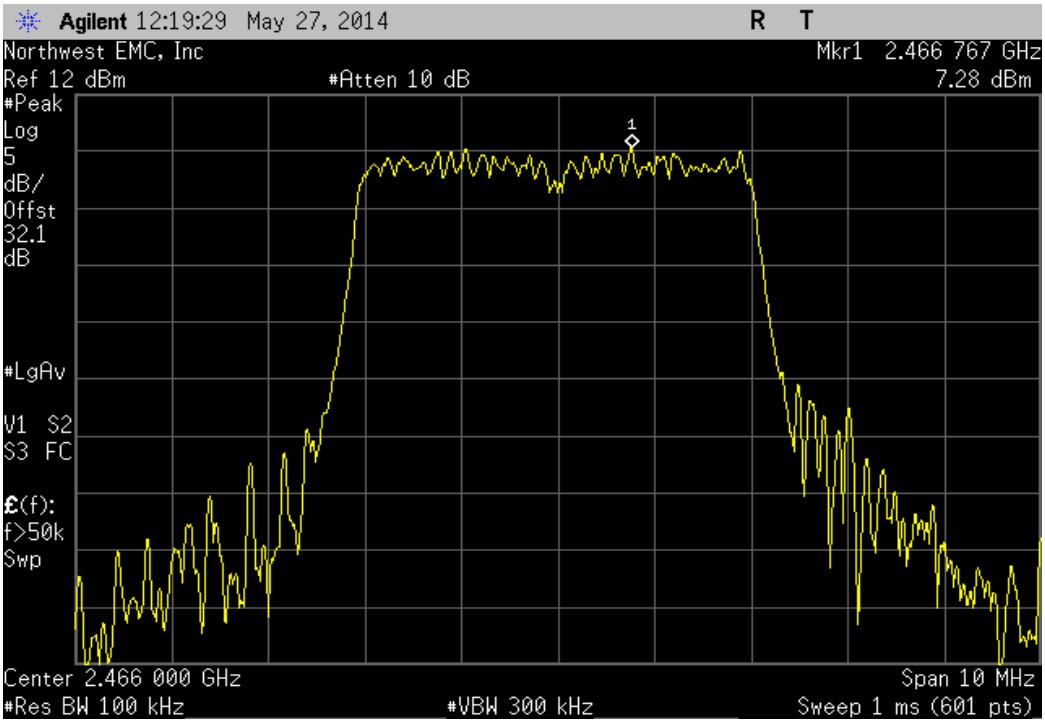


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.38	-15.2	-6.82	8	Pass

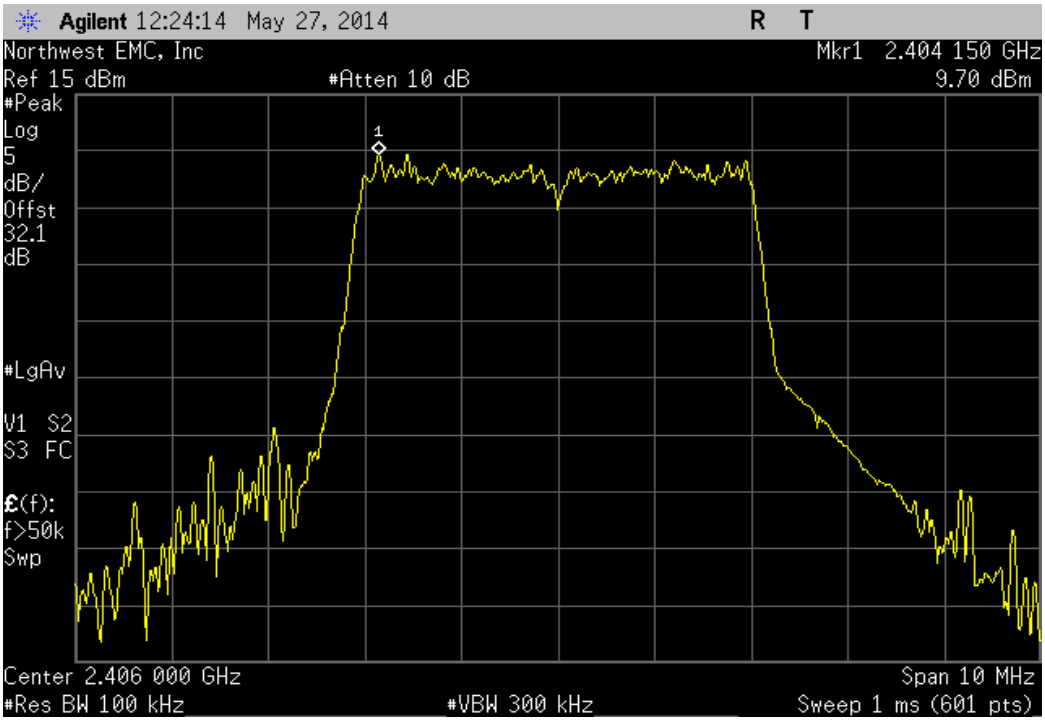


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.276	-15.2	-7.924	8	Pass

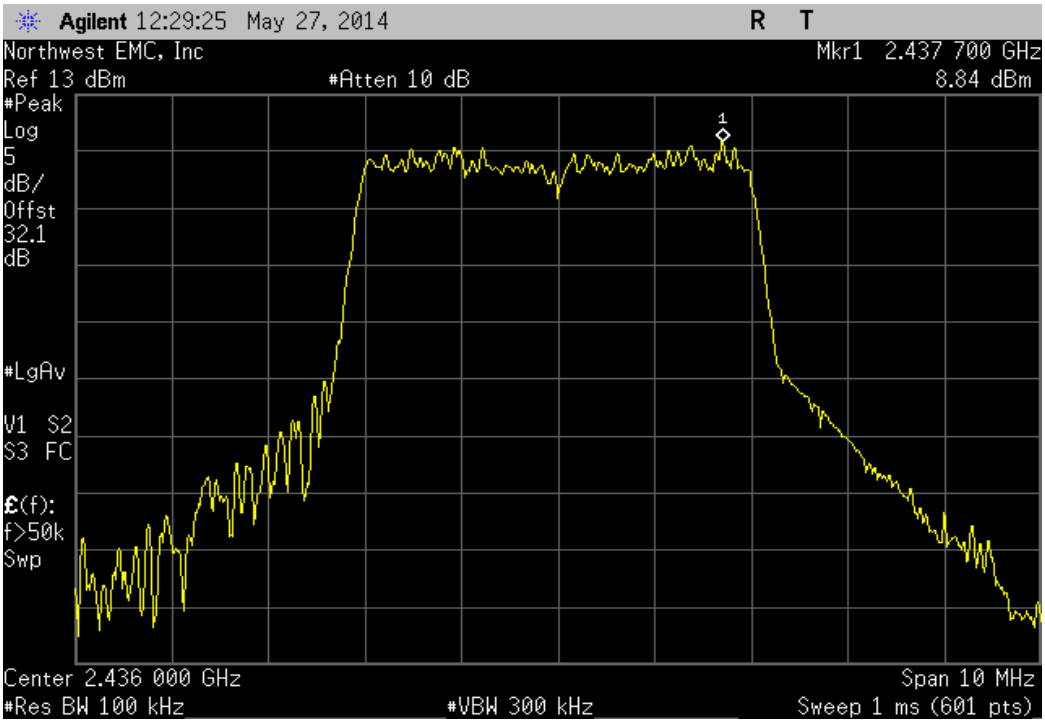


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.699	-15.2	-5.501	8	Pass

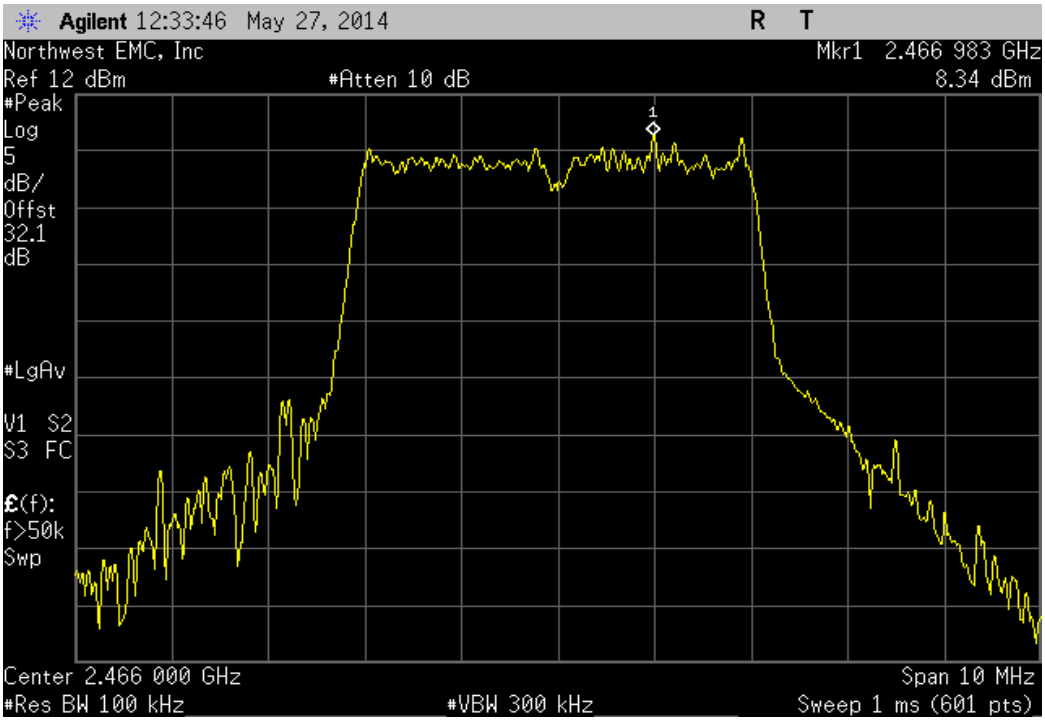


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.837	-15.2	-6.363	8	Pass

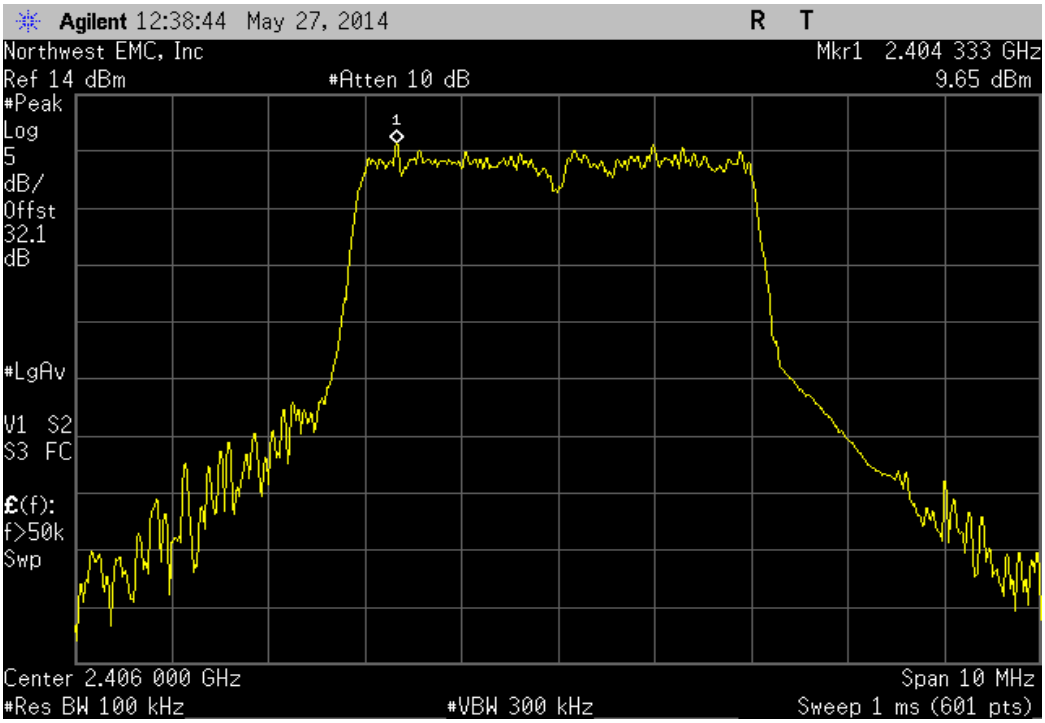


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.344	-15.2	-6.856	8	Pass

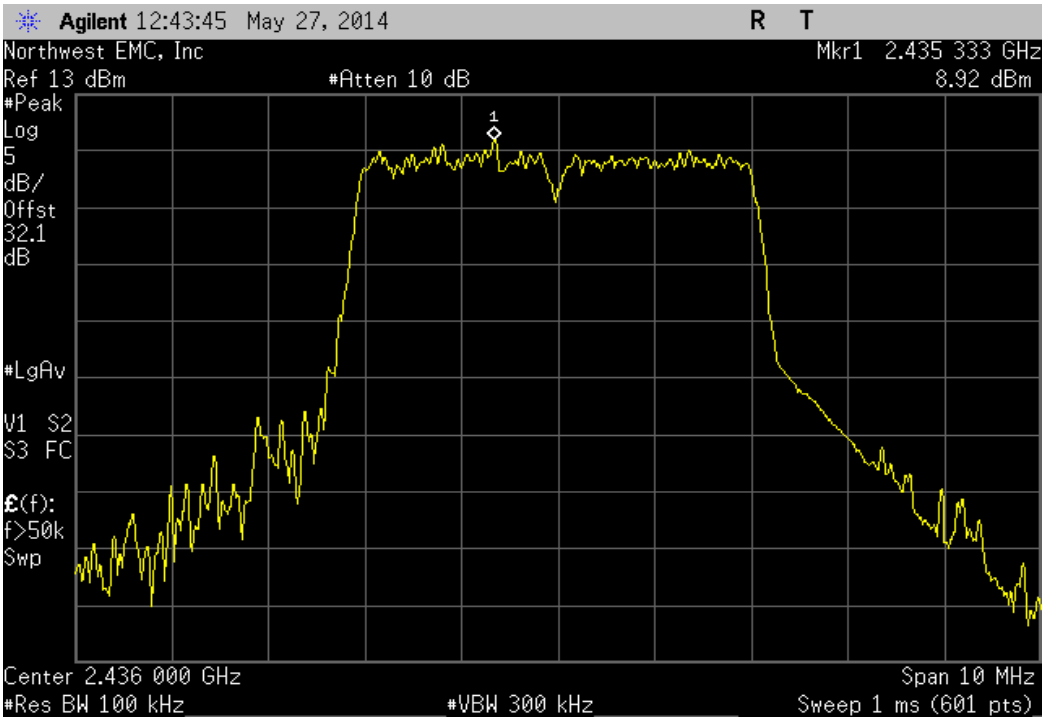


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.648	-15.2	-5.552	8	Pass

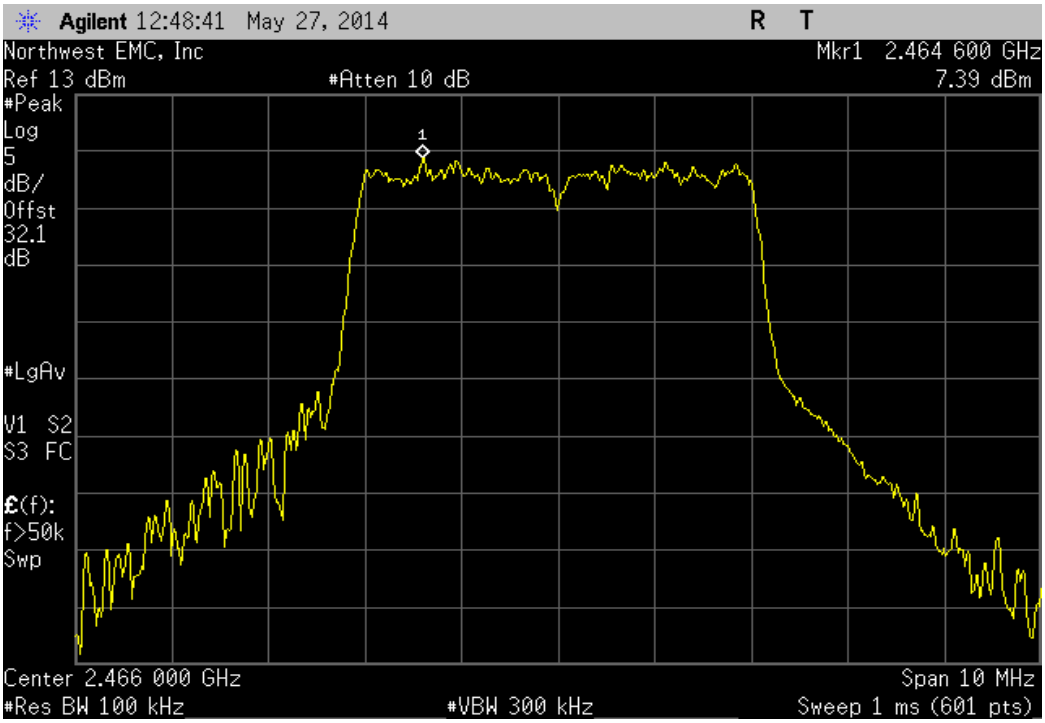


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.922	-15.2	-6.278	8	Pass

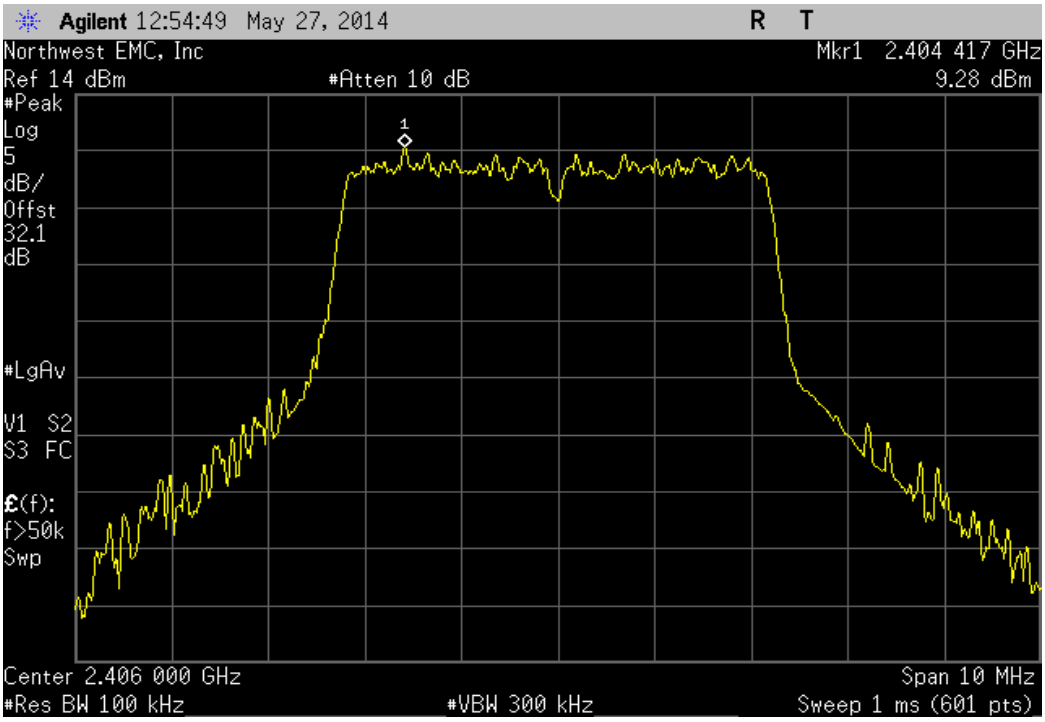


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.389	-15.2	-7.811	8	Pass

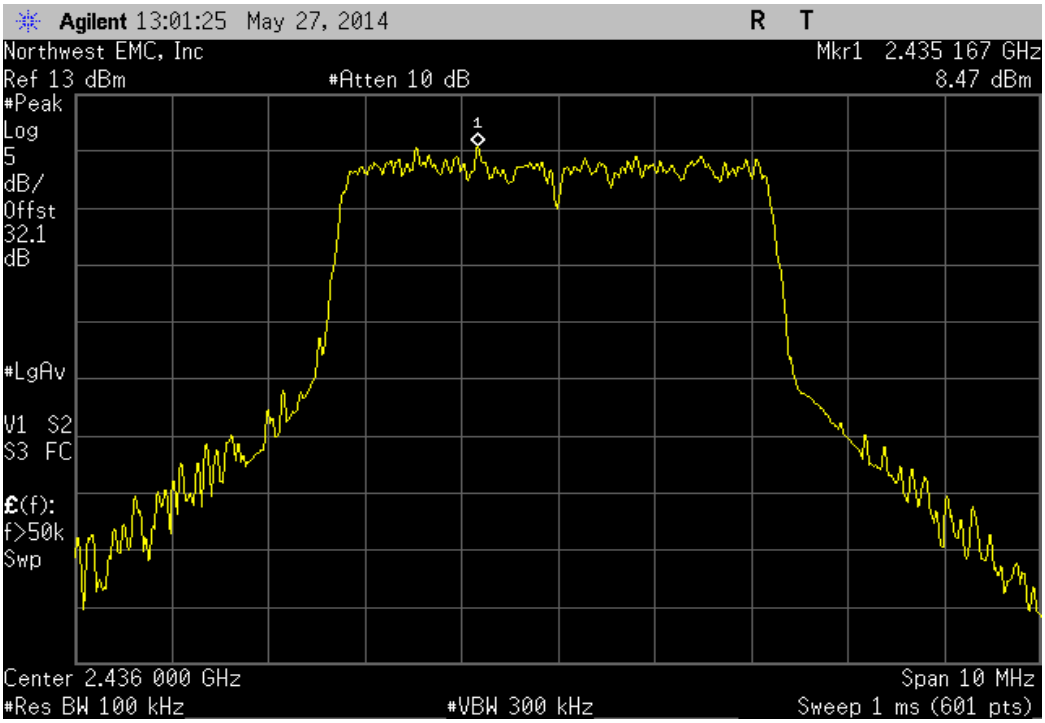


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.283	-15.2	-5.917	8	Pass

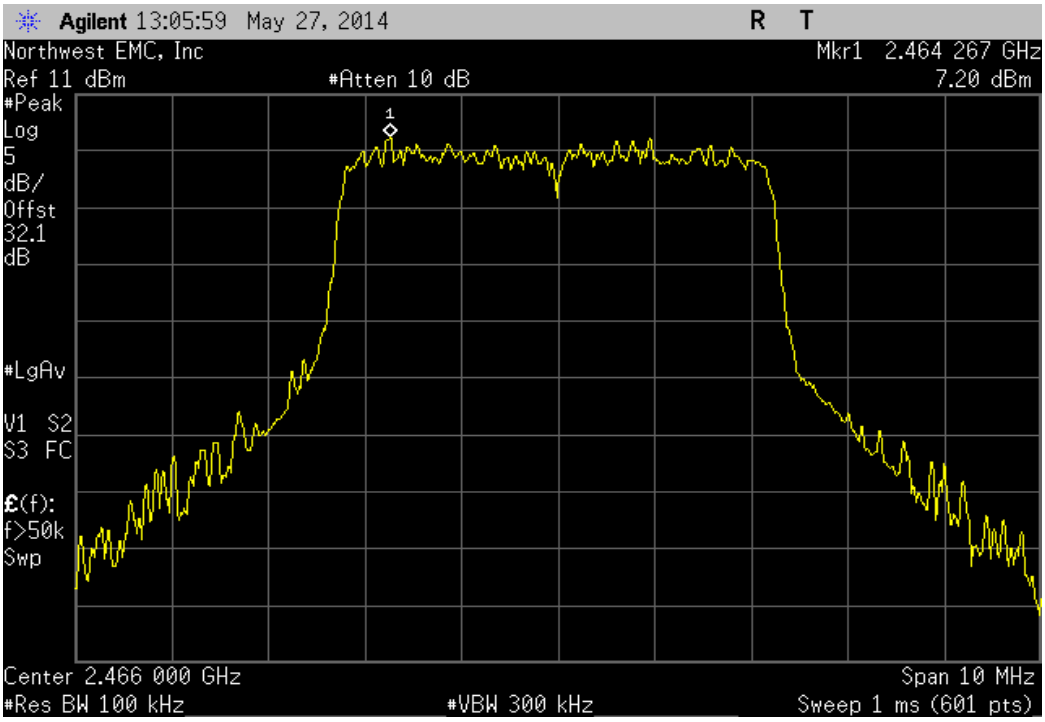


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.47	-15.2	-6.73	8	Pass

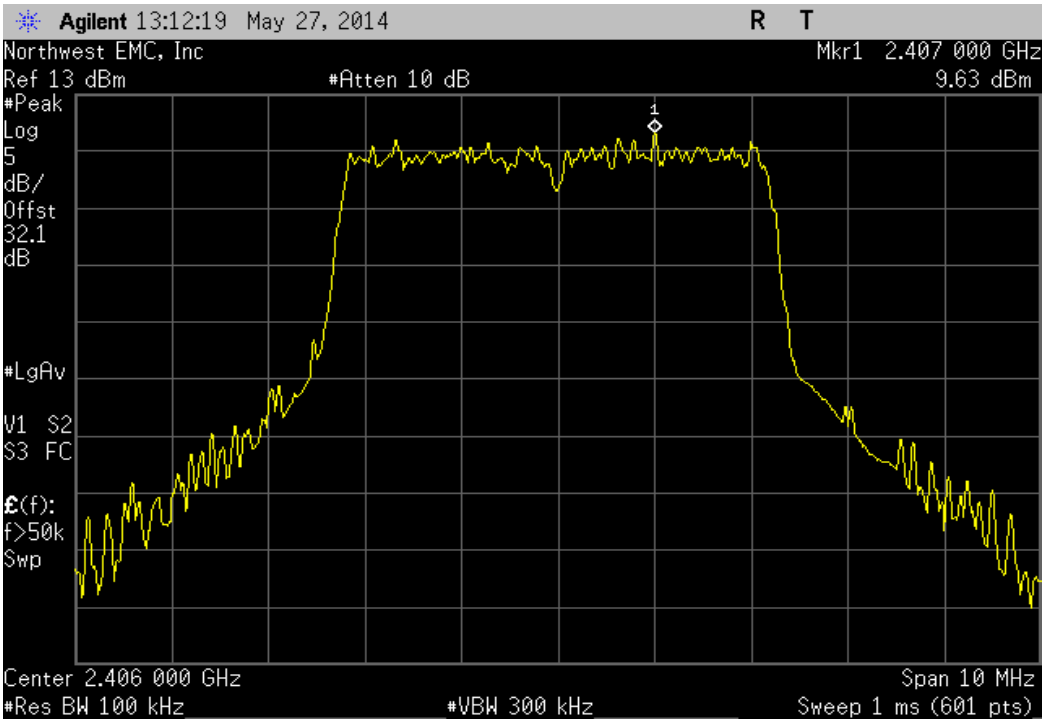


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.203	-15.2	-7.997	8	Pass

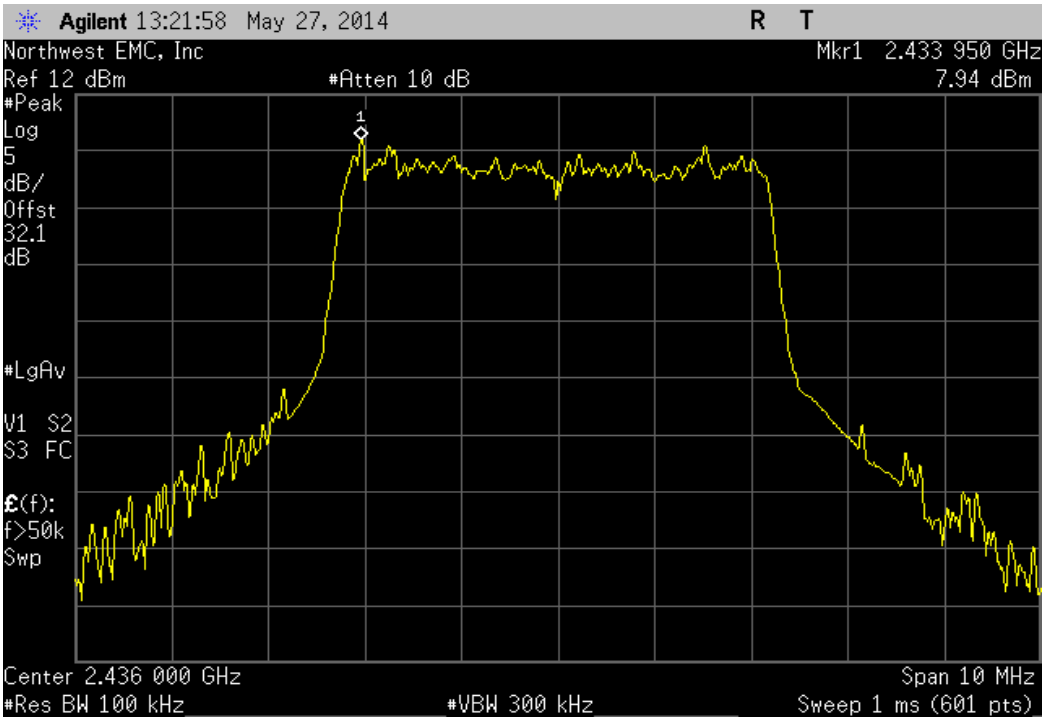


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.627	-15.2	-5.573	8	Pass

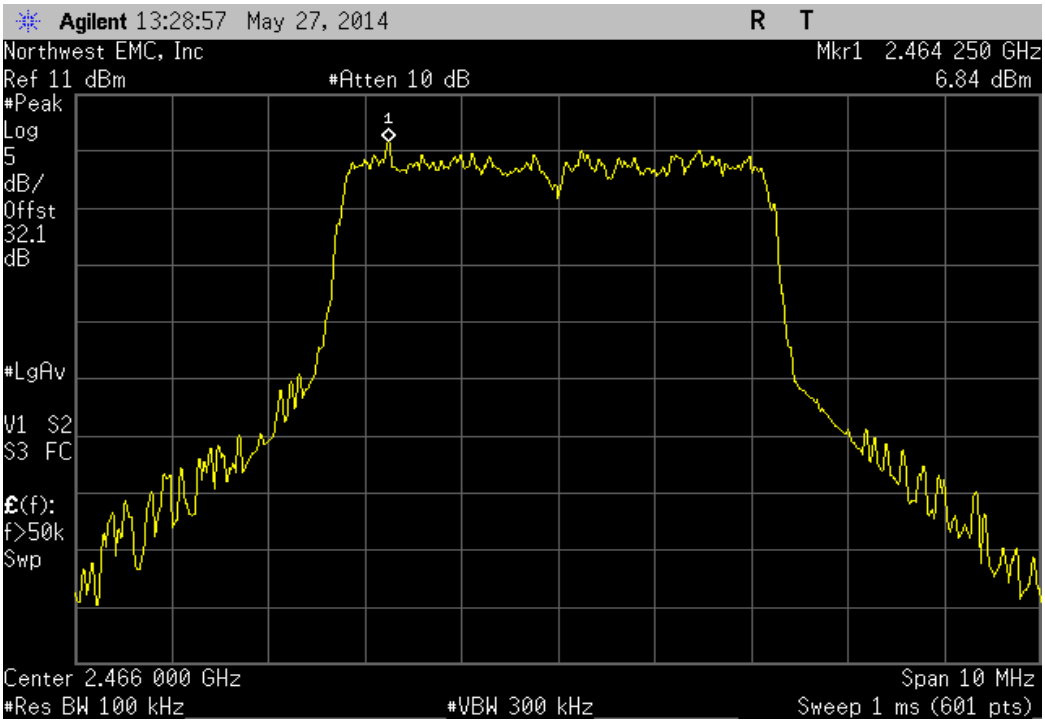


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.94	-15.2	-7.26	8	Pass

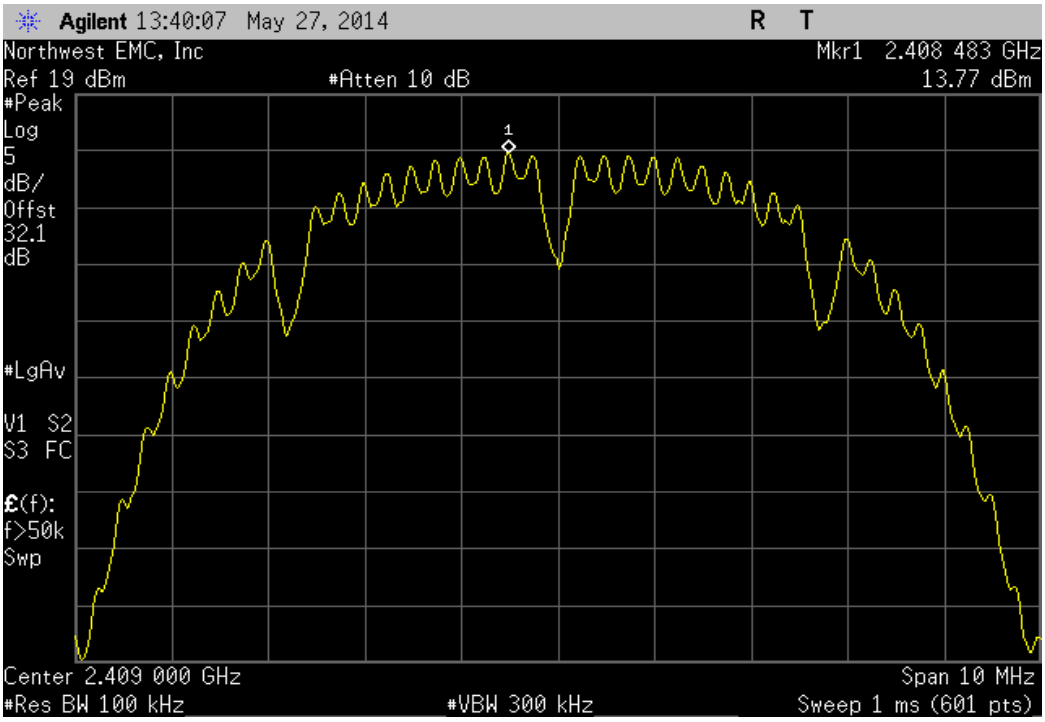


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.838	-15.2	-8.362	8	Pass

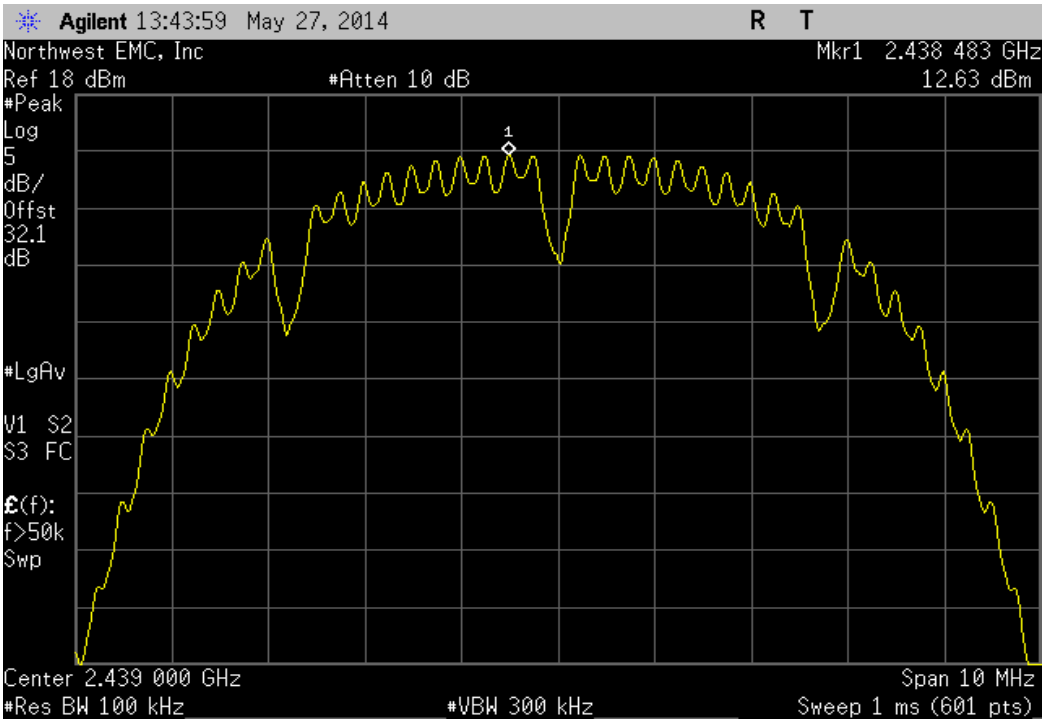


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.769	-15.2	-1.431	8	Pass

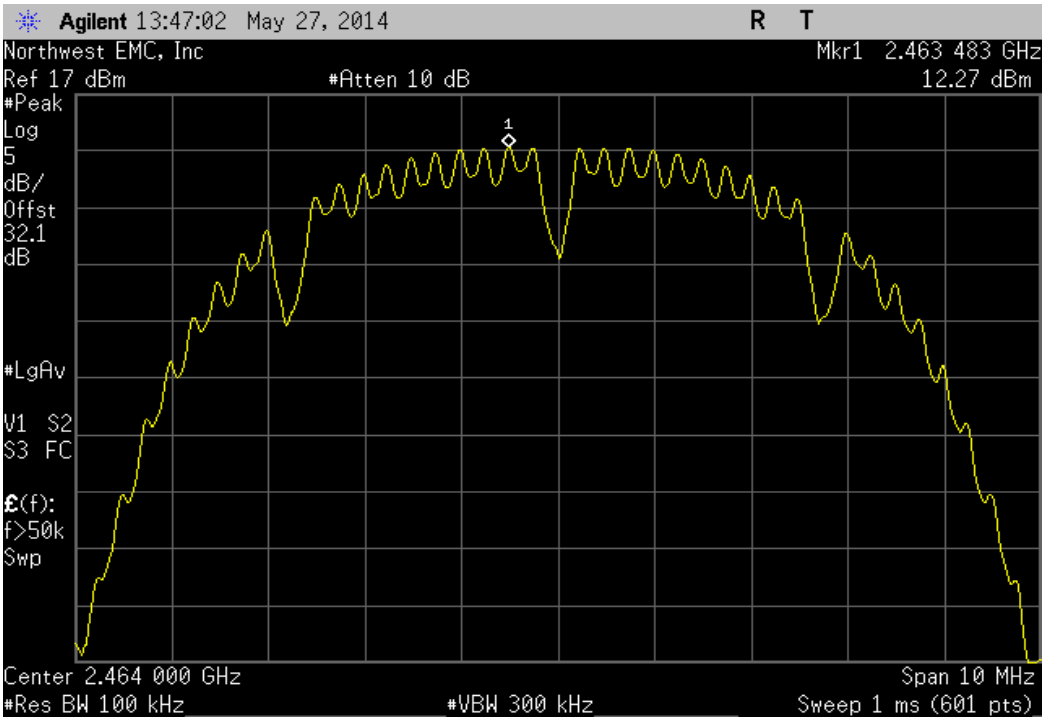


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.632	-15.2	-2.568	8	Pass

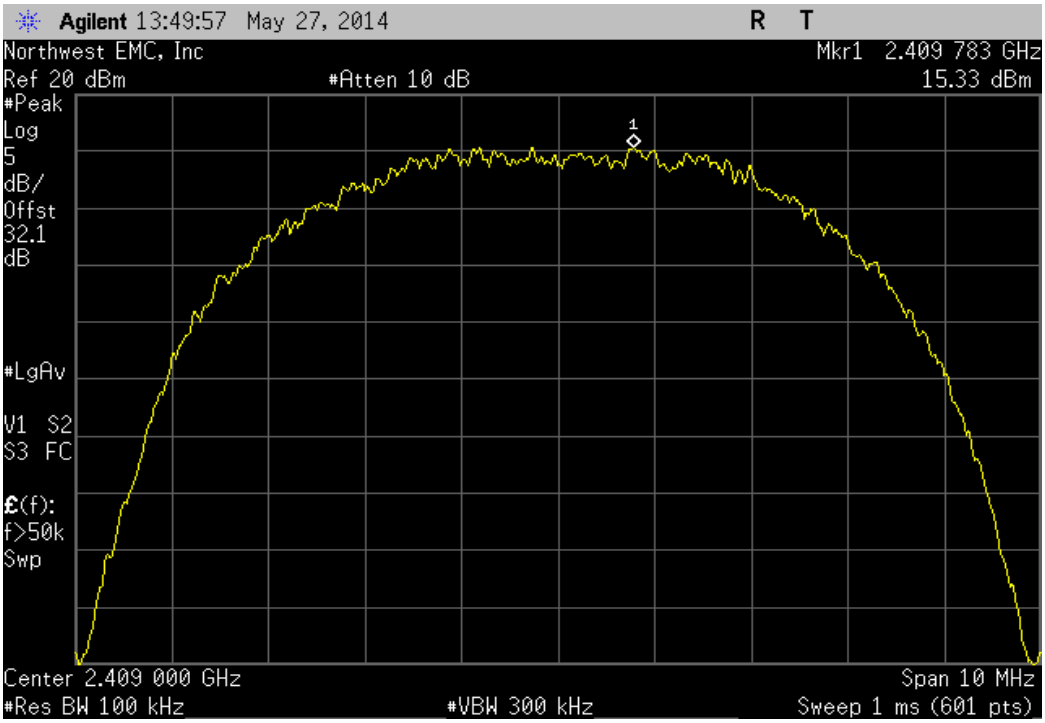


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, DBPSK., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.269	-15.2	-2.931	8	Pass

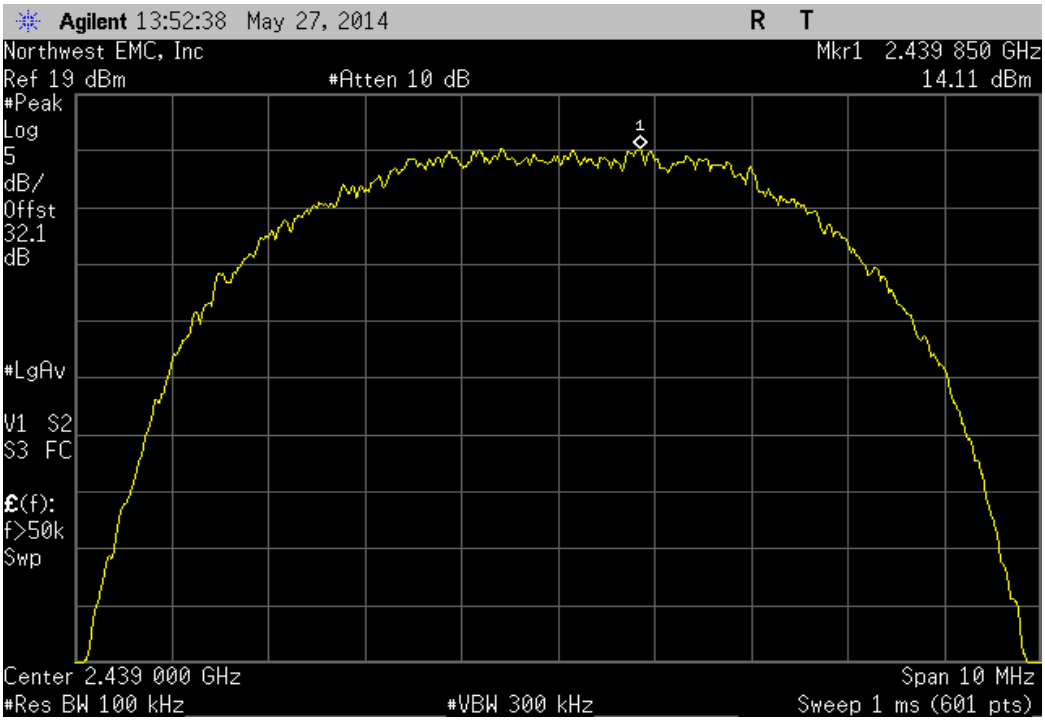


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		15.326	-15.2	0.126	8	Pass

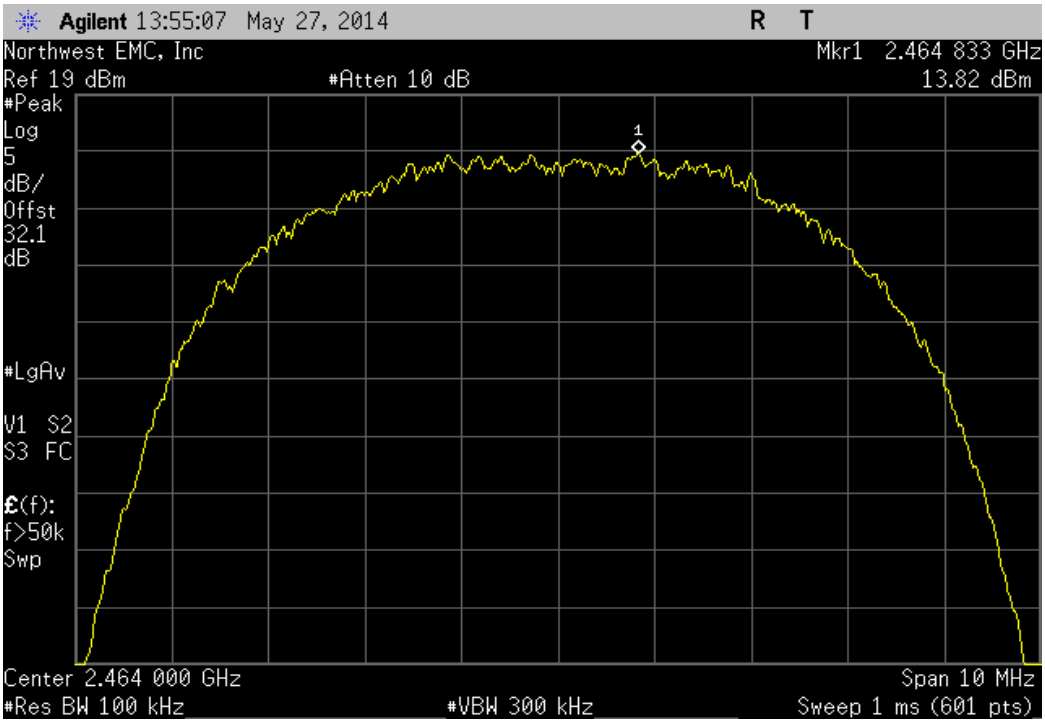


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		14.115	-15.2	-1.085	8	Pass

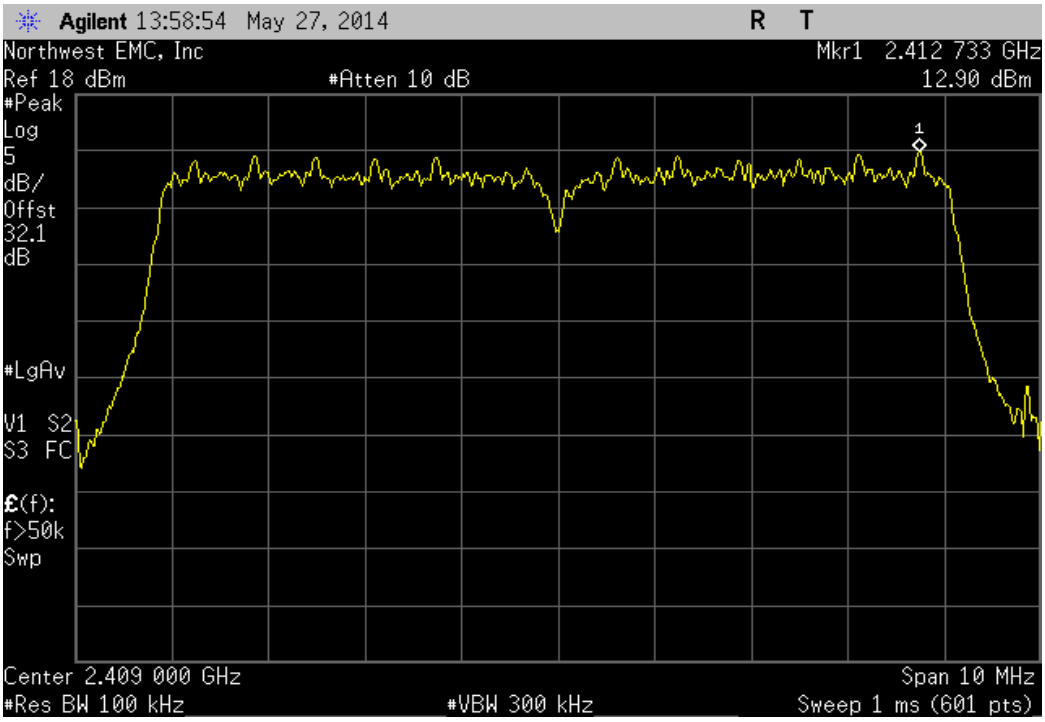


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, QPSK., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.824	-15.2	-1.376	8	Pass

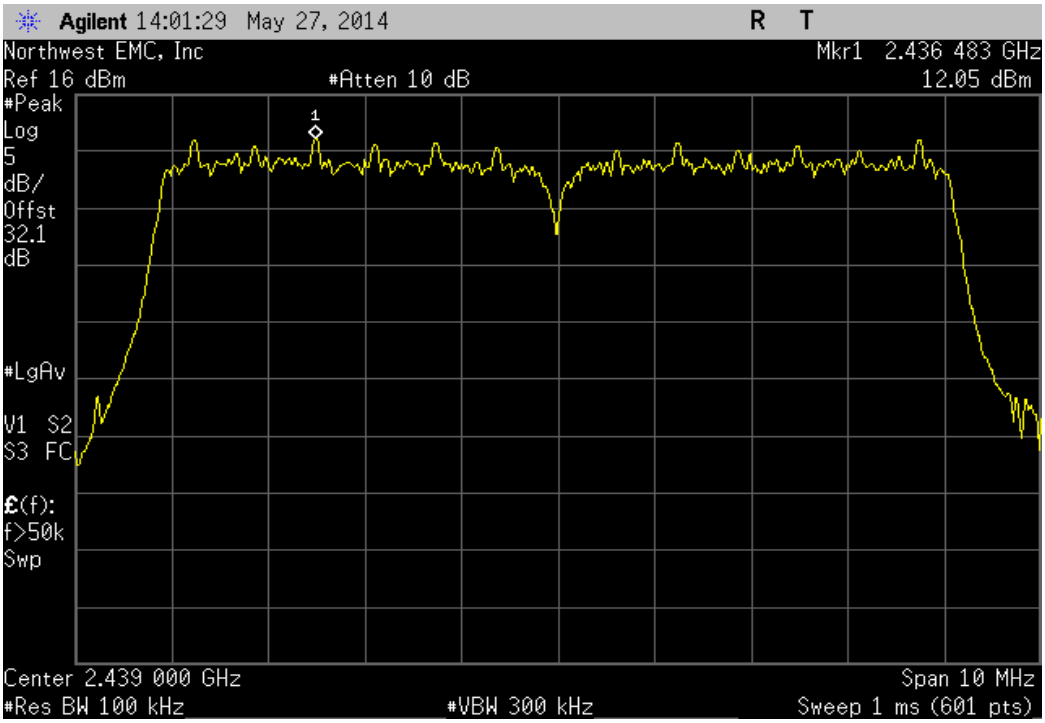


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.904	-15.2	-2.296	8	Pass

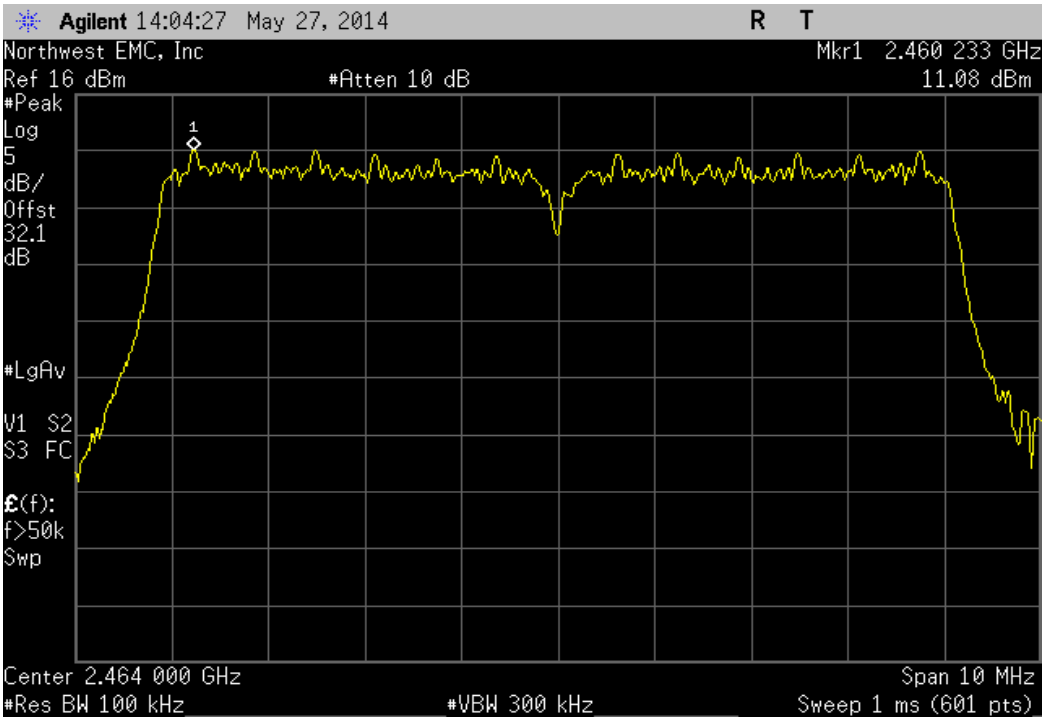


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.048	-15.2	-3.152	8	Pass

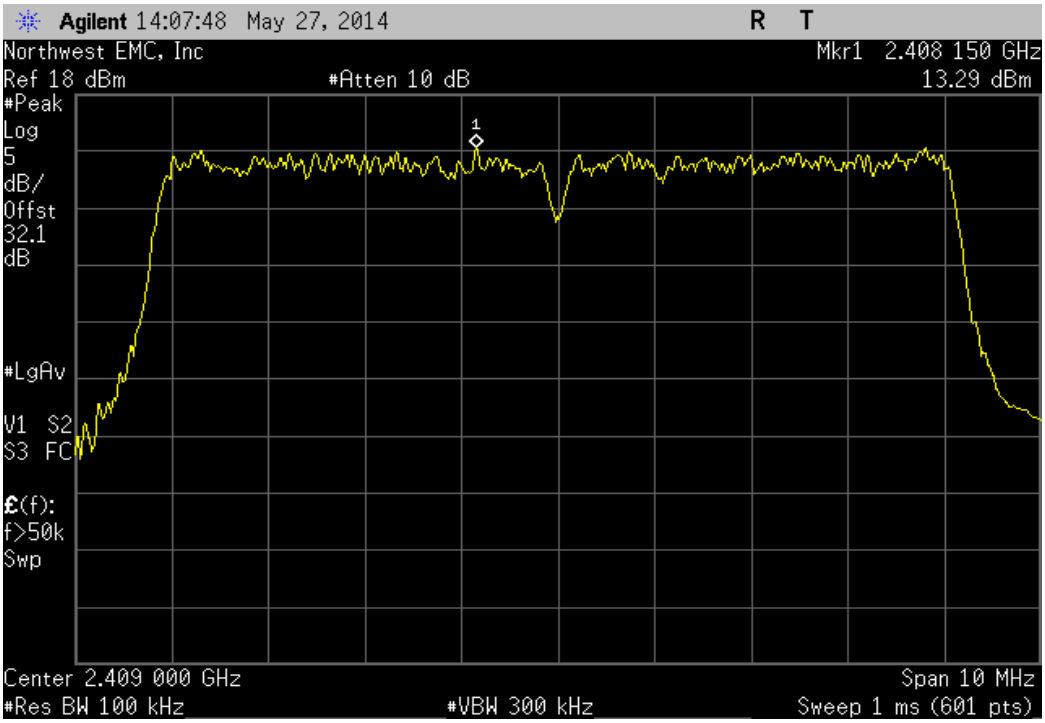


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.083	-15.2	-4.117	8	Pass

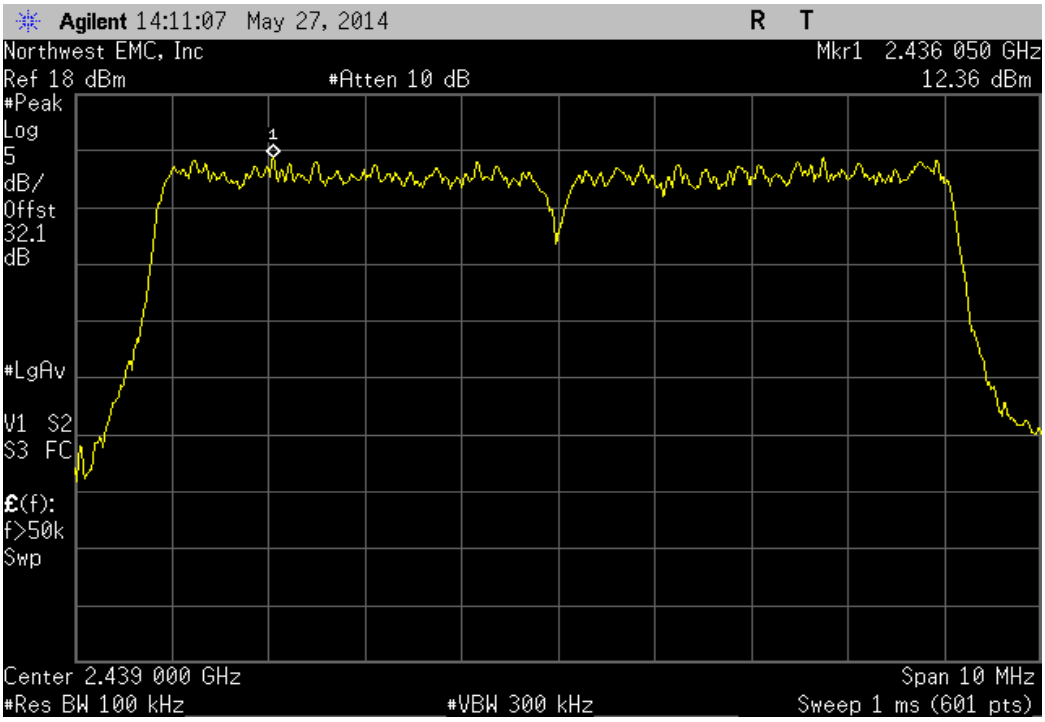


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.292	-15.2	-1.908	8	Pass

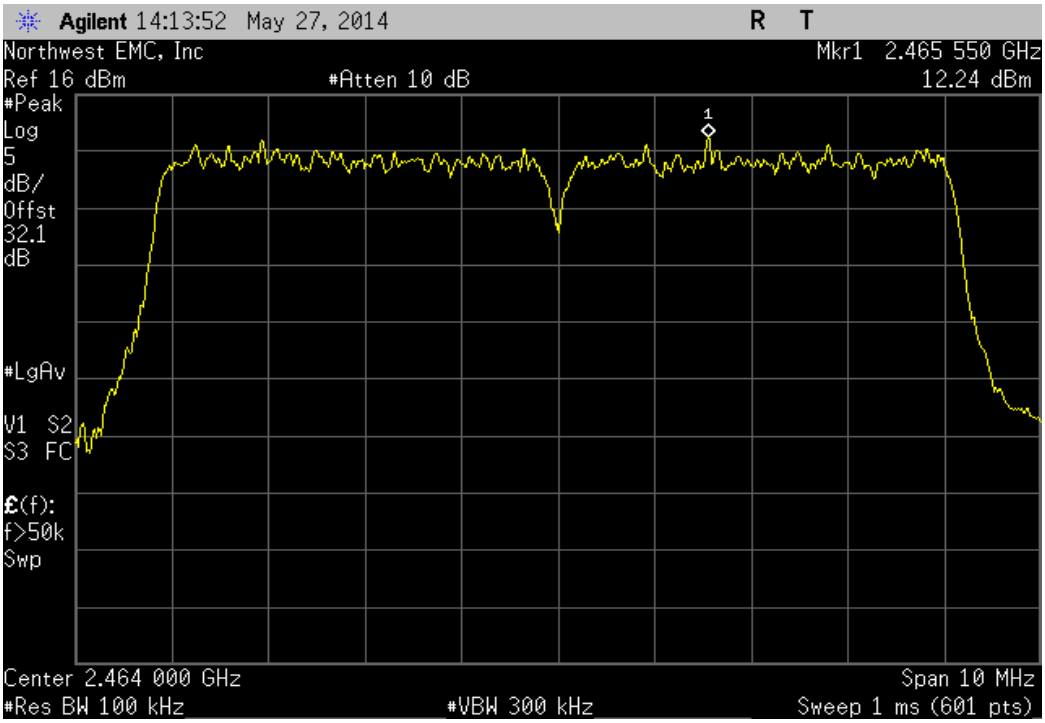


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.358	-15.2	-2.842	8	Pass

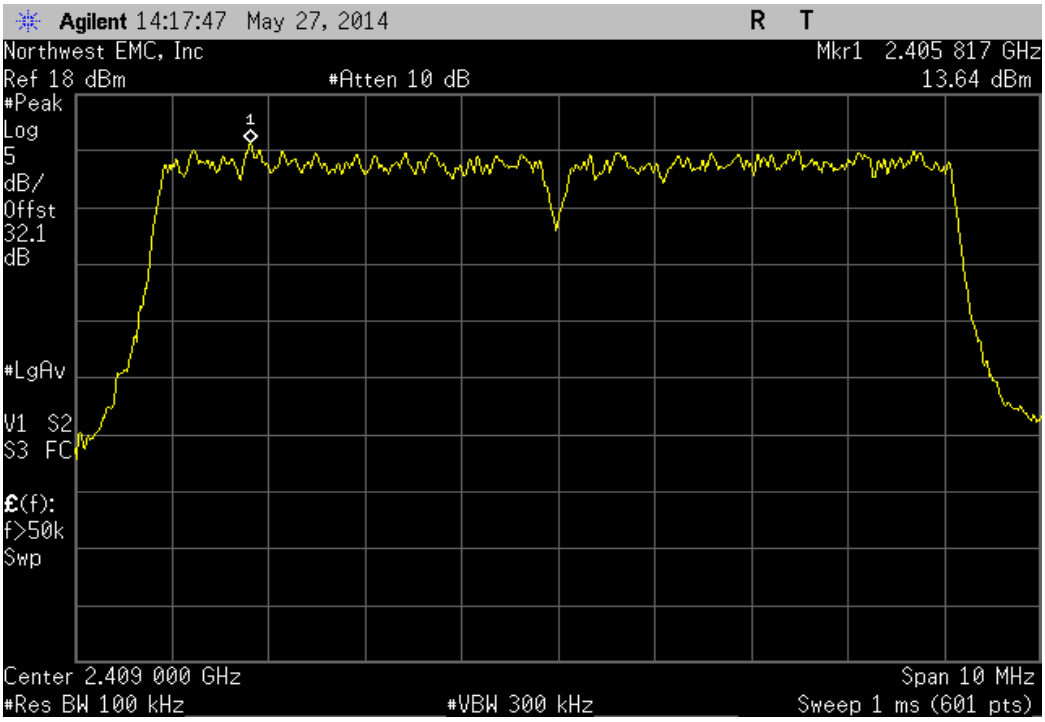


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 16-QAM, Coding Rate, 3/4., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.24	-15.2	-2.96	8	Pass

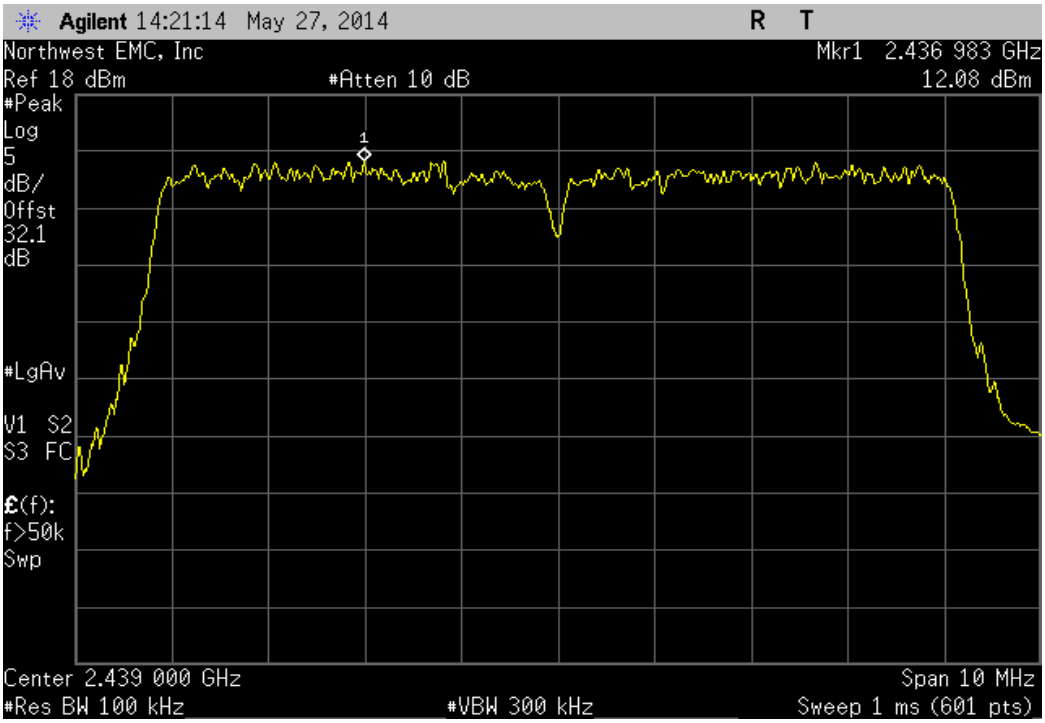


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.635	-15.2	-1.565	8	Pass

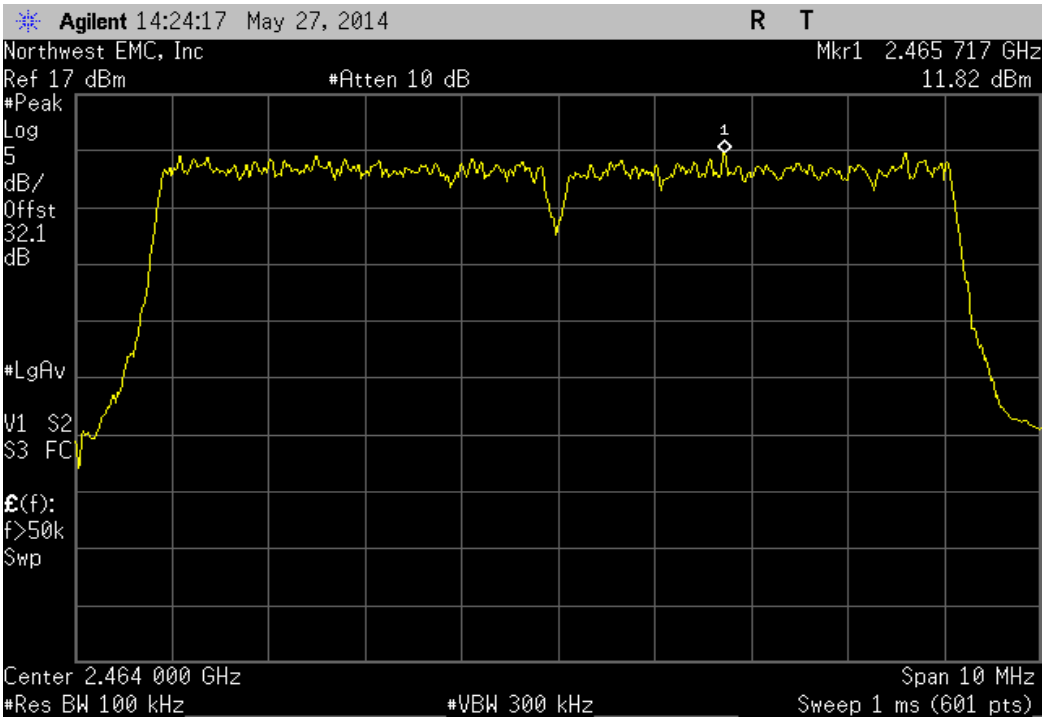


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.077	-15.2	-3.123	8	Pass

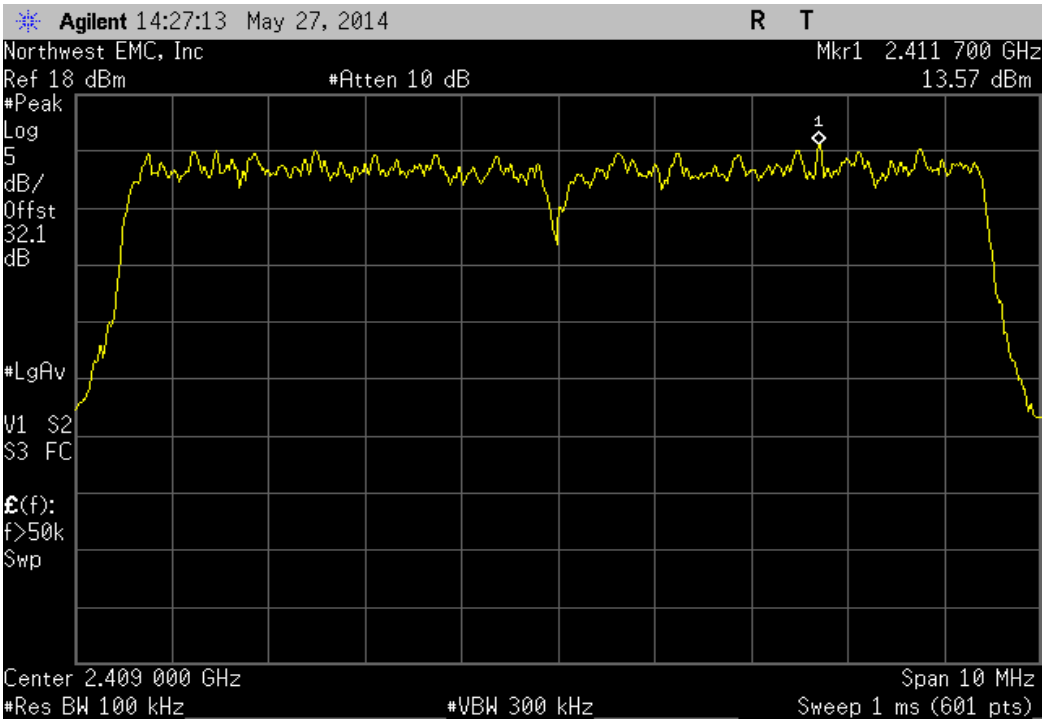


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 3/4., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.823	-15.2	-3.377	8	Pass

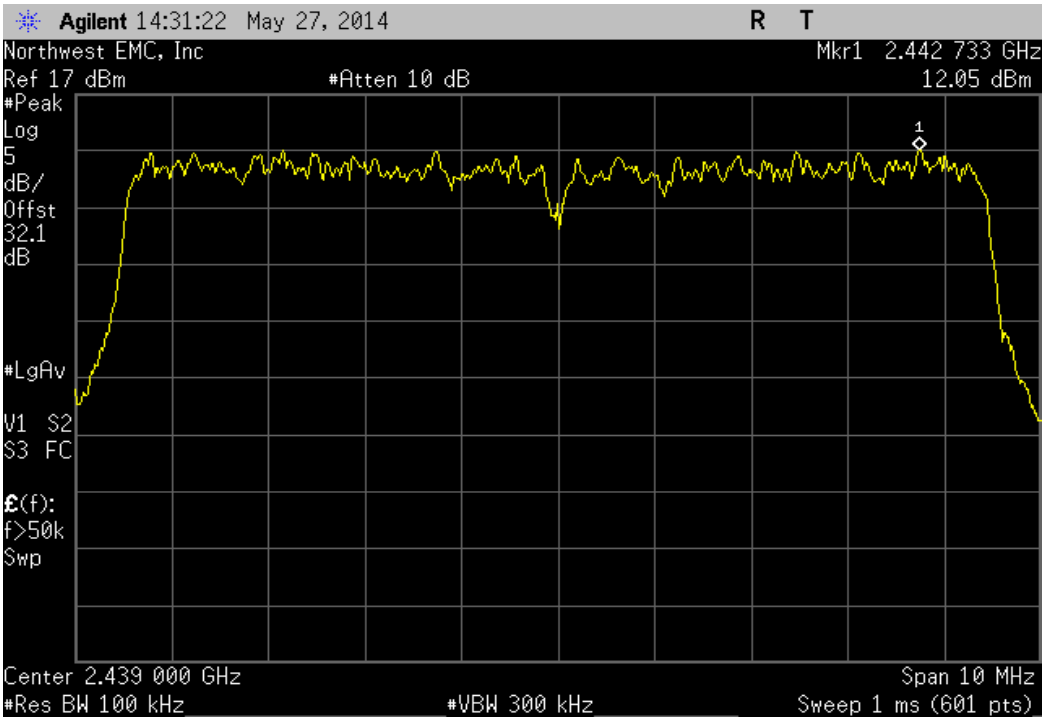


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.57	-15.2	-1.63	8	Pass

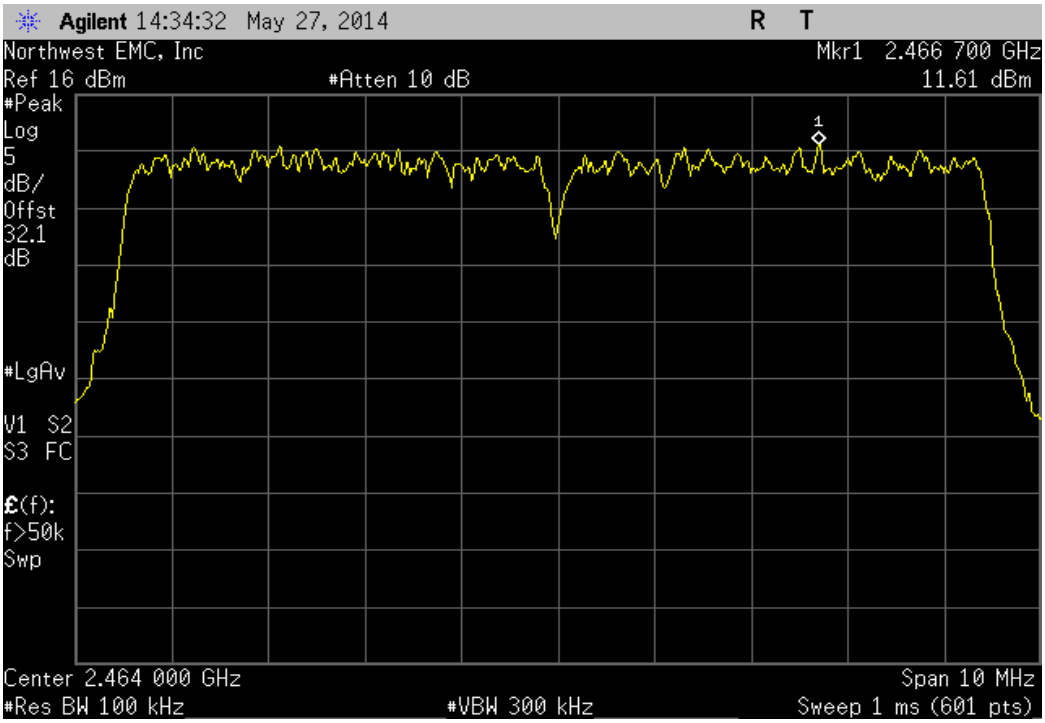


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.051	-15.2	-3.149	8	Pass

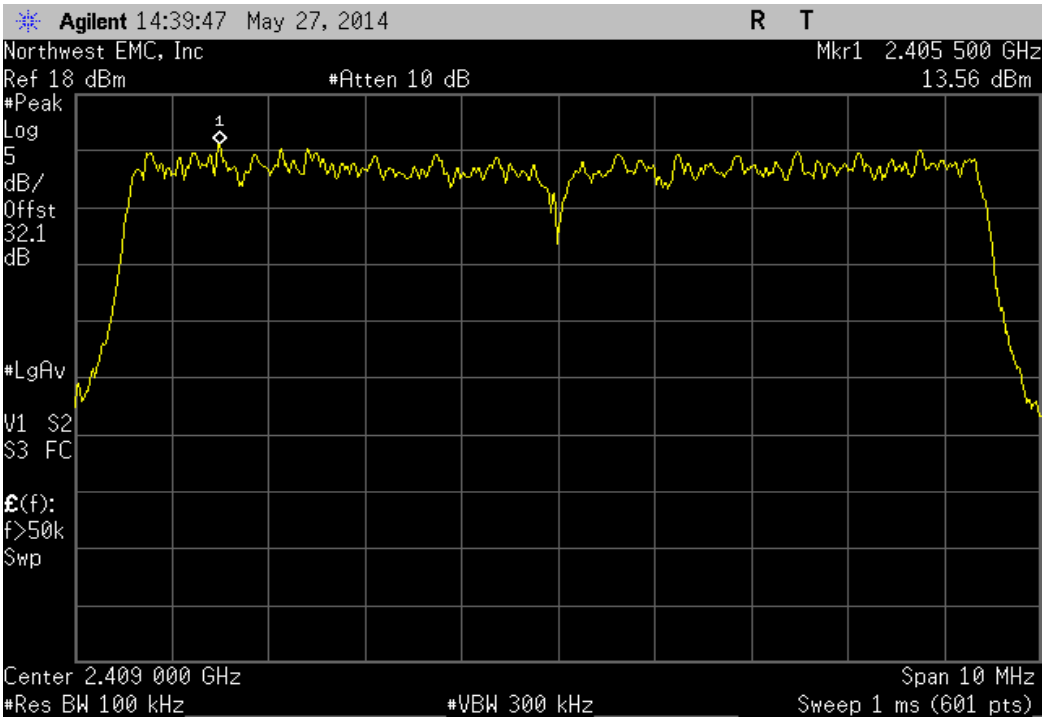


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, BPSK, Coding Rate, 1/2. , High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.61	-15.2	-3.59	8	Pass

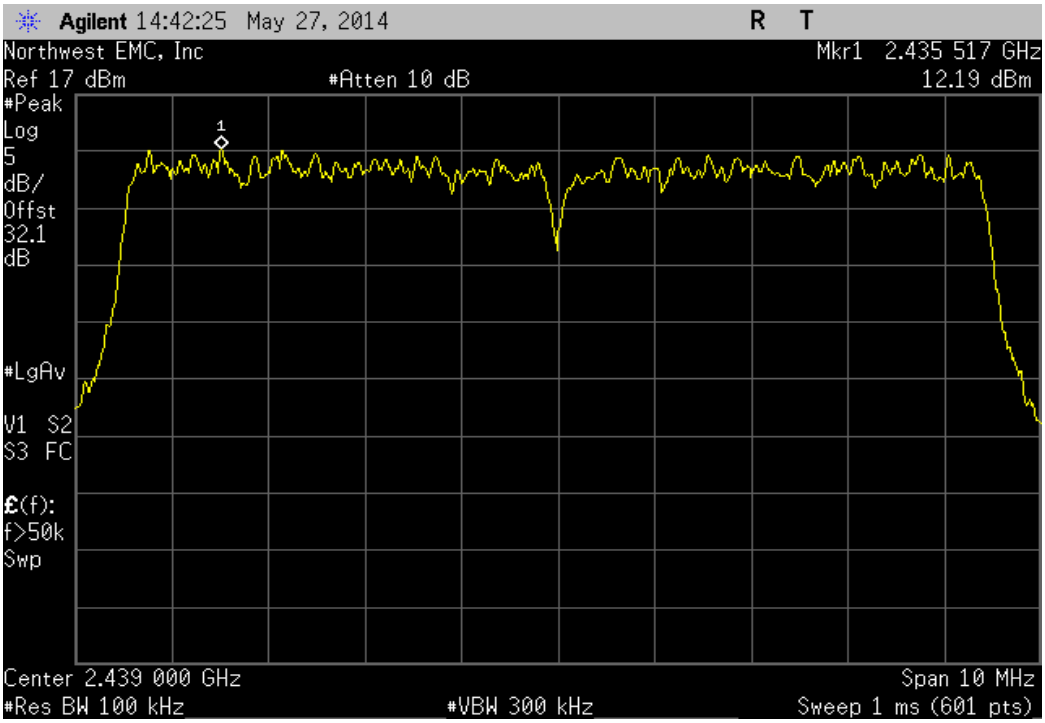


POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		13.563	-15.2	-1.637	8	Pass

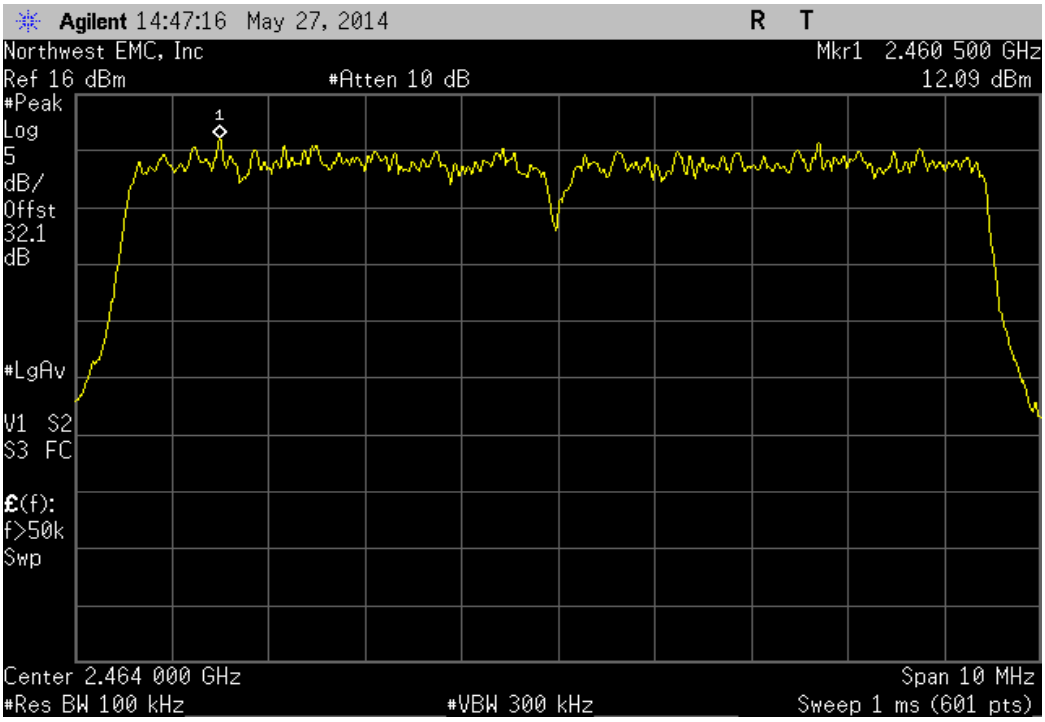


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.19	-15.2	-3.01	8	Pass



POWER SPECTRAL DENSITY - SISO

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.092	-15.2	-3.108	8	Pass



POWER SPECTRAL DENSITY - 2x2 MIMO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 5.3.1, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

BWCF = 10*LOG (3 kHz / 100 kHz) = -15.2 dB

For 2x2 MIMO mode of operation, per FCC KDB 662911 (D01 Multiple Transmitter Output v02r01), the summed power spectral density value was calculated by adding the value of 10*LOG(nAnt)dB to each of the single port measurement while operating in the MIMO mode. The resulting value to be added to a three antenna system is 10*LOG(2) = 3 dB

POWER SPECTRAL DENSITY - 2x2 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

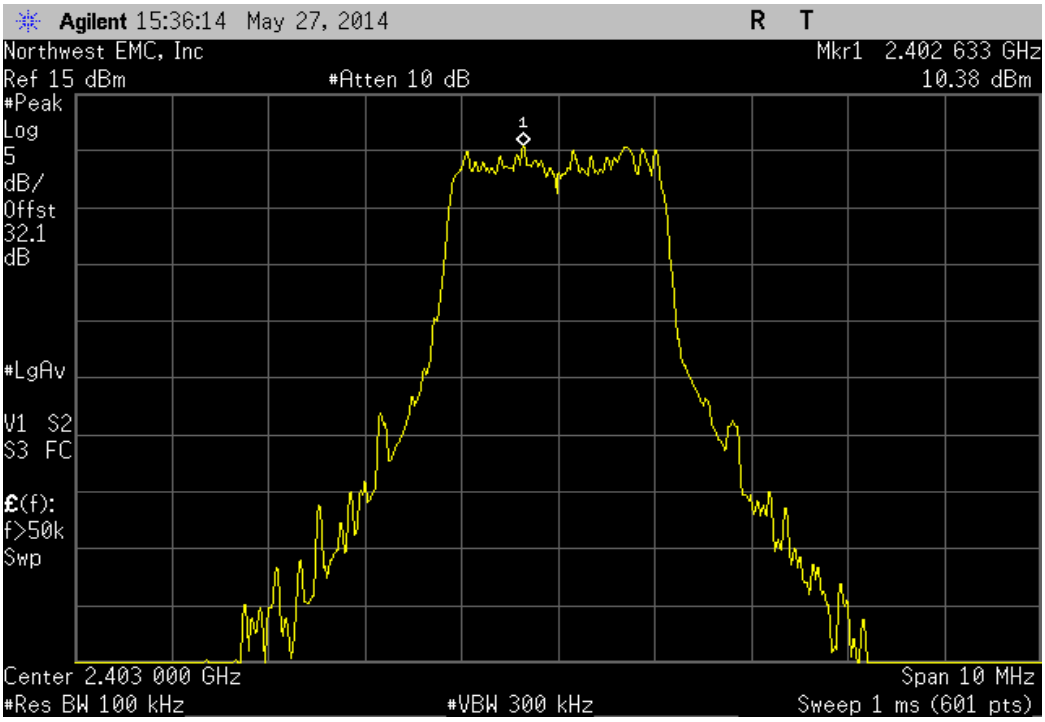
	Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
Chain 1					
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	10.382	-15.2	-4.818	8	Pass
Mid Channel 2435 MHz	8.341	-15.2	-6.859	8	Pass
High Channel 2470 MHz	7.204	-15.2	-7.996	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	8.82	-15.2	-6.38	8	Pass
Mid Channel 2435 MHz	7.326	-15.2	-7.874	8	Pass
High Channel 2470 MHz	6.129	-15.2	-9.071	8	Pass
5MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	4.89	-15.2	-10.31	8	Pass
Mid Channel 2436 MHz	4.297	-15.2	-10.903	8	Pass
High Channel 2466 MHz	3.546	-15.2	-11.654	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	4.152	-15.2	-11.048	8	Pass
Mid Channel 2436 MHz	2.878	-15.2	-12.322	8	Pass
High Channel 2466 MHz	1.893	-15.2	-13.307	8	Pass
10MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	12.722	-15.2	-2.478	8	Pass
Mid Channel 2439 MHz	11.517	-15.2	-3.683	8	Pass
High Channel 2464 MHz	10.925	-15.2	-4.275	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	12.539	-15.2	-2.661	8	Pass
Mid Channel 2439 MHz	11.661	-15.2	-3.539	8	Pass
High Channel 2464 MHz	11.108	-15.2	-4.092	8	Pass
Chain 2					
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	6.426	-15.2	-8.774	8	Pass
Mid Channel 2435 MHz	6.207	-15.2	-8.993	8	Pass
High Channel 2470 MHz	6.361	-15.2	-8.839	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	7.233	-15.2	-7.967	8	Pass
Mid Channel 2435 MHz	5.22	-15.2	-9.98	8	Pass
High Channel 2470 MHz	5.093	-15.2	-10.107	8	Pass
5MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	3.693	-15.2	-11.507	8	Pass
Mid Channel 2436 MHz	3.396	-15.2	-11.804	8	Pass
High Channel 2466 MHz	2.894	-15.2	-12.306	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	3.126	-15.2	-12.074	8	Pass
Mid Channel 2436 MHz	2.094	-15.2	-13.106	8	Pass
High Channel 2466 MHz	1.333	-15.2	-13.867	8	Pass
10MHz Bandwidth					
2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	11.801	-15.2	-3.399	8	Pass
Mid Channel 2439 MHz	11.342	-15.2	-3.858	8	Pass
High Channel 2464 MHz	10.864	-15.2	-4.336	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	12.383	-15.2	-2.817	8	Pass
Mid Channel 2439 MHz	11.086	-15.2	-4.114	8	Pass
High Channel 2464 MHz	10.849	-15.2	-4.351	8	Pass

Chain 1 Summing						
2400 MHz - 2483.5 MHz Band						
2.5MHz Bandwidth	Value (dBm/MHz)	Summing Factor (dBm)	dBm/100kHz To dBm/3kHz	Summed Power (dBm/MHz)	Limit (dBm/MHz)	Results
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2403 MHz	10.382	3	-15.2	-1.818	8	Pass
Mid Channel 2435 MHz	8.341	3	-15.2	-3.859	8	Pass
High Channel 2470 MHz	7.204	3	-15.2	-4.996	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	8.82	3	-15.2	-3.38	8	Pass
Mid Channel 2436 MHz	7.326	3	-15.2	-4.874	8	Pass
High Channel 2466 MHz	6.129	3	-15.2	-6.071	8	Pass
5MHz Bandwidth						
2x2 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	4.89	3	-15.2	-7.31	8	Pass
Mid Channel 2436 MHz	4.297	3	-15.2	-7.903	8	Pass
High Channel 2466 MHz	3.546	3	-15.2	-8.654	8	Pass
2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	4.152	3	-15.2	-8.048	8	Pass
Mid Channel 2436 MHz	2.878	3	-15.2	-9.322	8	Pass

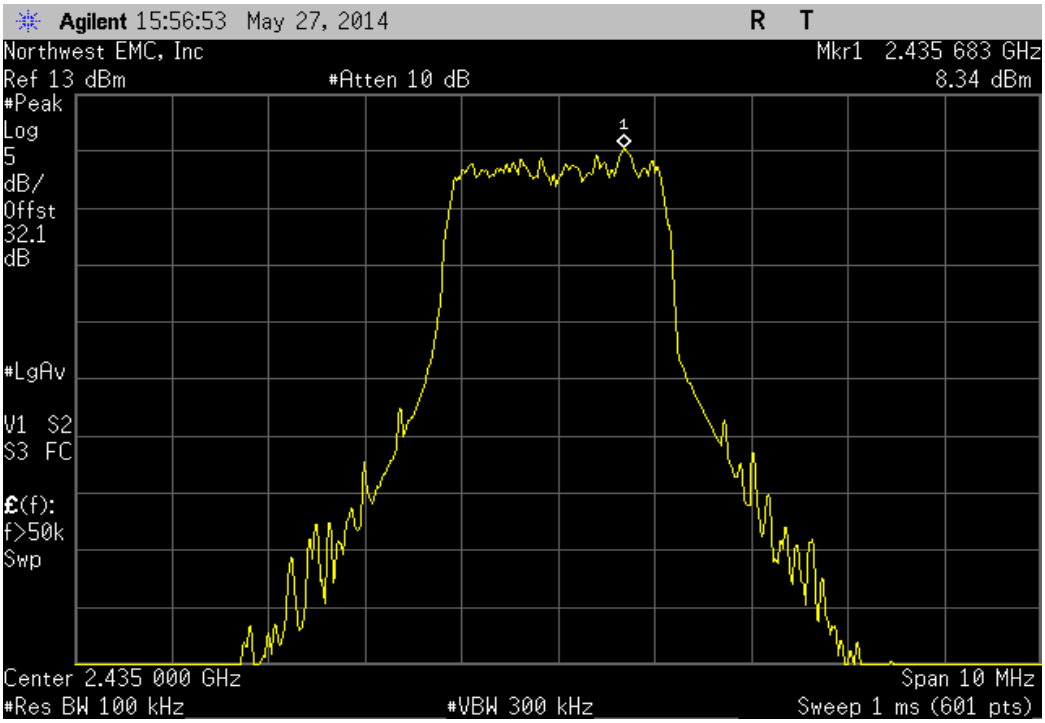
		High Channel 2466 MHz	1.893	3	-15.2	-10.307	8	Pass
	10MHz Bandwidth						
		2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
		Low Channel 2409 MHz	12.722	3	-15.2	0.522	8	Pass
		Mid Channel 2439 MHz	11.517	3	-15.2	-0.683	8	Pass
		High Channel 2464 MHz	10.925	3	-15.2	-1.275	8	Pass
		2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
		Low Channel 2409 MHz	12.539	3	-15.2	0.339	8	Pass
		Mid Channel 2439 MHz	11.661	3	-15.2	-0.539	8	Pass
		High Channel 2464 MHz	11.108	3	-15.2	-1.092	8	Pass
Chain 2 Summing								
	2400 MHz - 2483.5 MHz Band							
	2.5MHz Bandwidth		Value	Summing Factor	dBm/100kHz	Summed Power	Limit	
		2x2 Modulation Type, BPSK, Coding Rate, 1/2.	(dBm/MHz)	(dBm)	To dBm/3kHz	(dBm/MHz)	(dBm/MHz)	Results
		Low Channel 2406 MHz	6.426	3	-15.2	-5.774	8	Pass
		Mid Channel 2436 MHz	6.207	3	-15.2	-5.993	8	Pass
		High Channel 2466 MHz	6.361	3	-15.2	-5.839	8	Pass
		2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
		Low Channel 2406 MHz	7.233	3	-15.2	-4.967	8	Pass
		Mid Channel 2436 MHz	5.22	3	-15.2	-6.98	8	Pass
		High Channel 2466 MHz	5.093	3	-15.2	-7.107	8	Pass
	5MHz Bandwidth						
		2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
		Low Channel 2406 MHz	3.693	3	-15.2	-8.507	8	Pass
		Mid Channel 2436 MHz	3.396	3	-15.2	-8.804	8	Pass
		High Channel 2466 MHz	2.894	3	-15.2	-9.306	8	Pass
		2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
		Low Channel 2406 MHz	3.126	3	-15.2	-9.074	8	Pass
		Mid Channel 2436 MHz	2.094	3	-15.2	-10.106	8	Pass
		High Channel 2466 MHz	1.333	3	-15.2	-10.867	8	Pass
	10MHz Bandwidth						
		2x2 Modulation Type, BPSK, Coding Rate, 1/2.					
		Low Channel 2409 MHz	11.801	3	-15.2	-0.399	8	Pass
		Mid Channel 2439 MHz	11.342	3	-15.2	-0.858	8	Pass
		High Channel 2464 MHz	10.864	3	-15.2	-1.336	8	Pass
		2x2 Modulation Type, 64-QAM, Coding Rate, 5/6.					
		Low Channel 2409 MHz	12.383	3	-15.2	0.183	8	Pass
		Mid Channel 2439 MHz	11.086	3	-15.2	-1.114	8	Pass
		High Channel 2464 MHz	10.849	3	-15.2	-1.351	8	Pass

POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.382	-15.2	-4.818	8	Pass

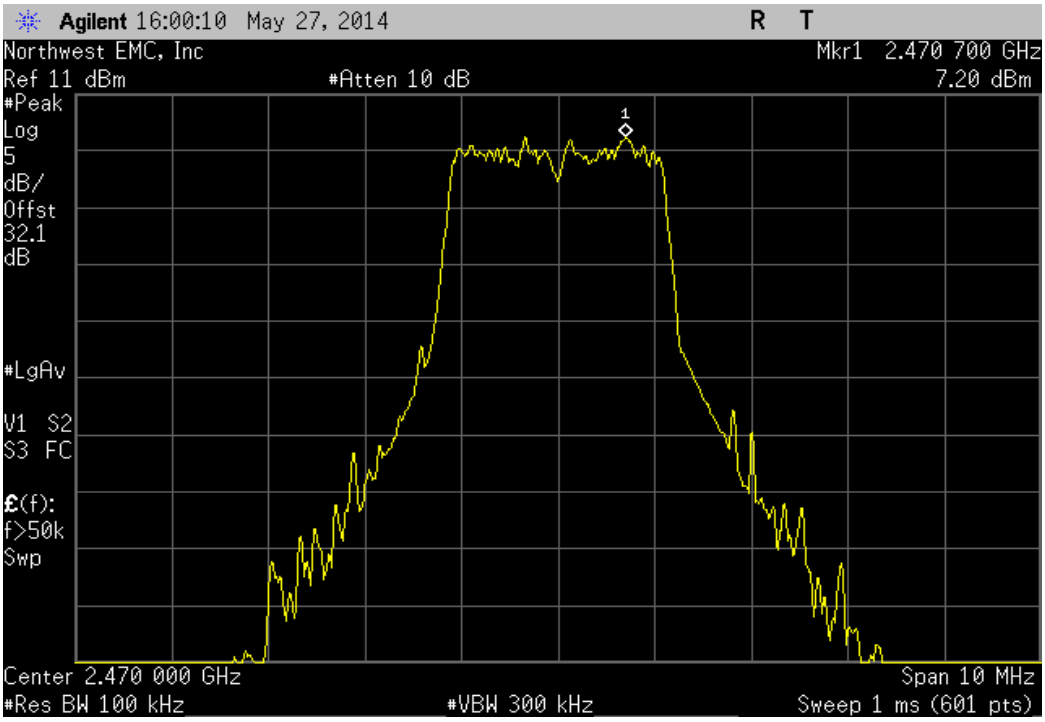


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.341	-15.2	-6.859	8	Pass

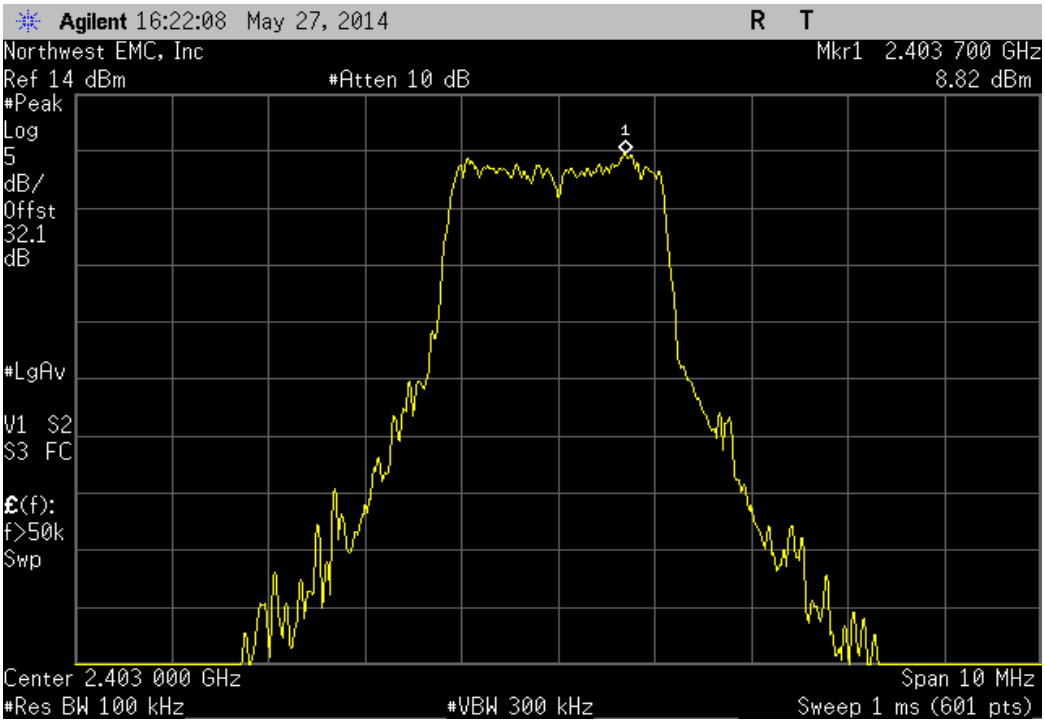


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.204	-15.2	-7.996	8	Pass

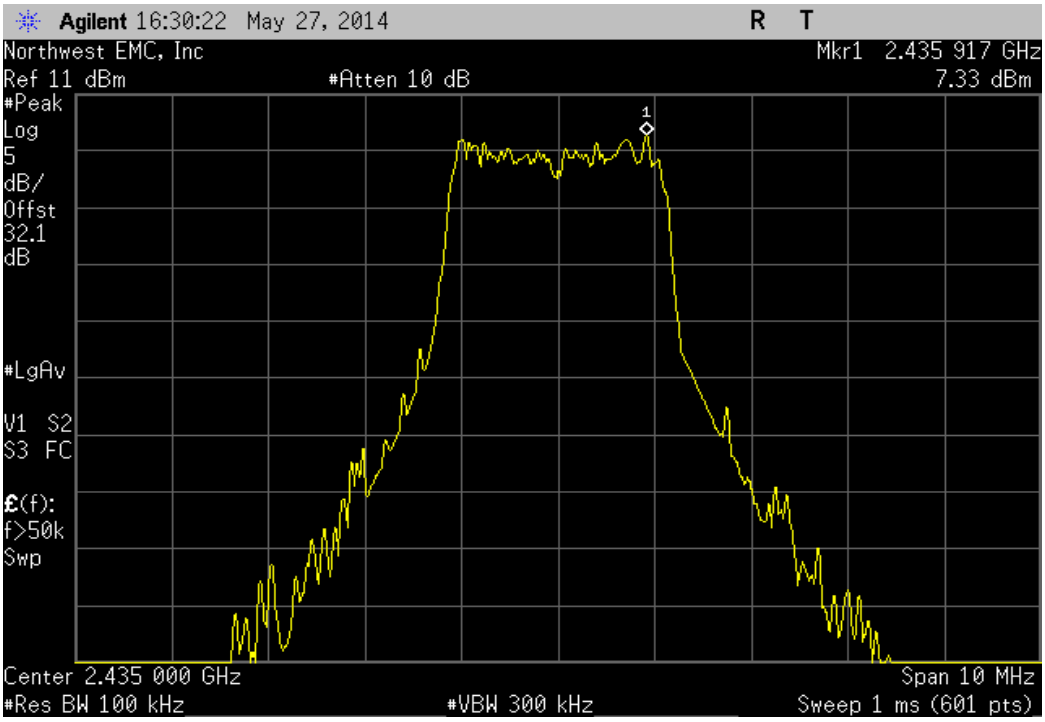


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.82	-15.2	-6.38	8	Pass

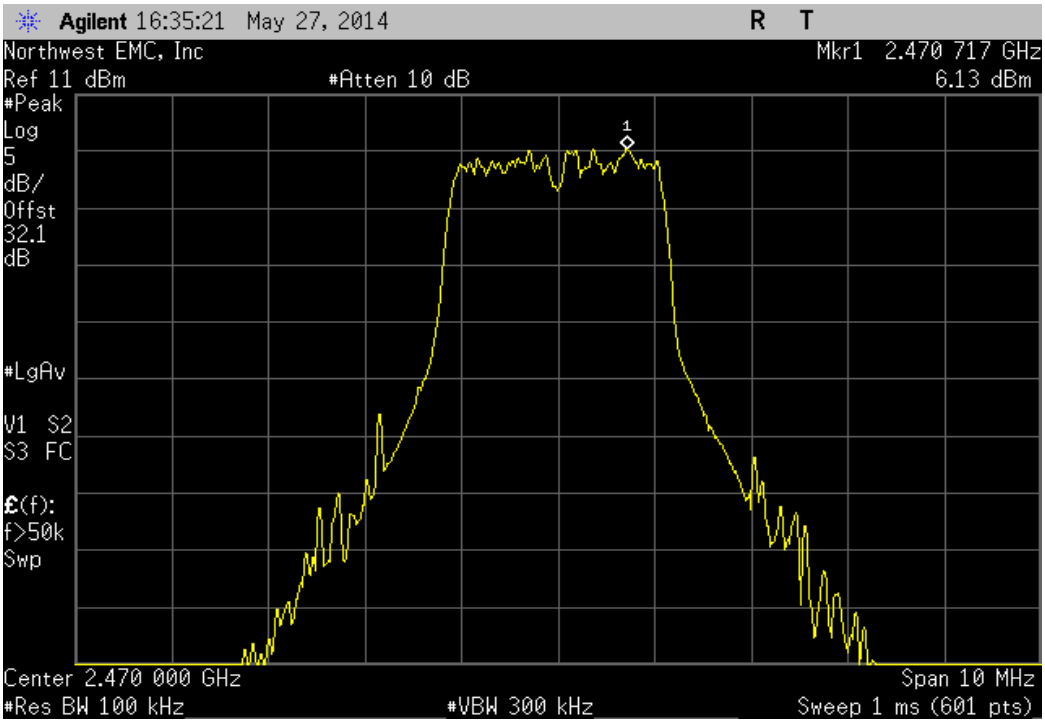


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.326	-15.2	-7.874	8	Pass

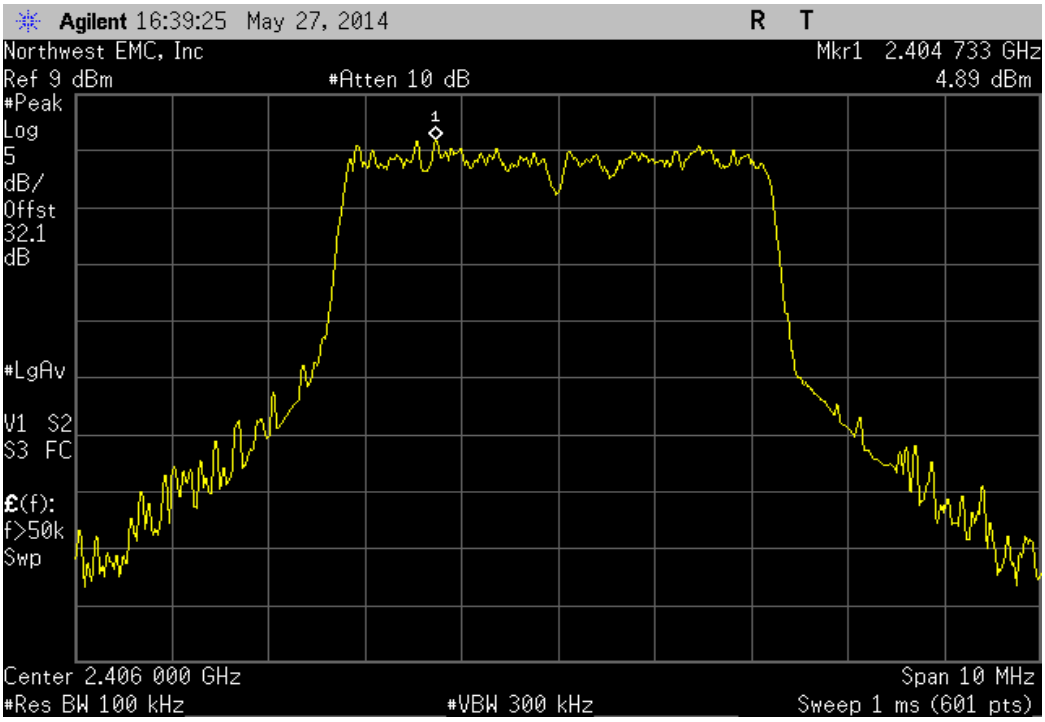


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.129	-15.2	-9.071	8	Pass

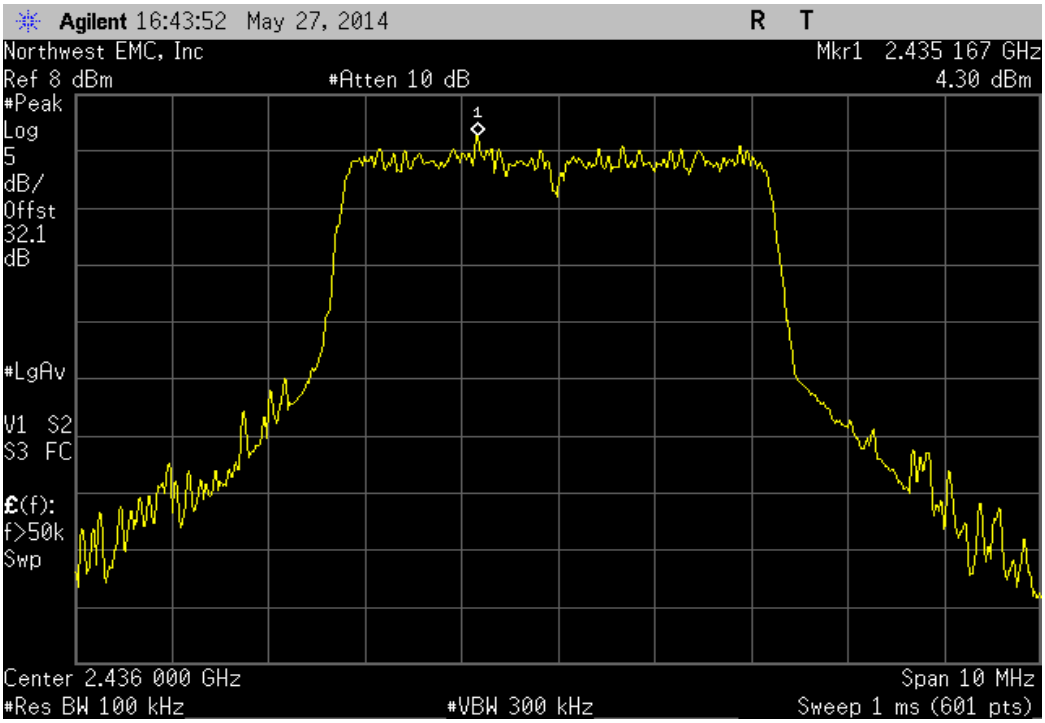


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		4.89	-15.2	-10.31	8	Pass

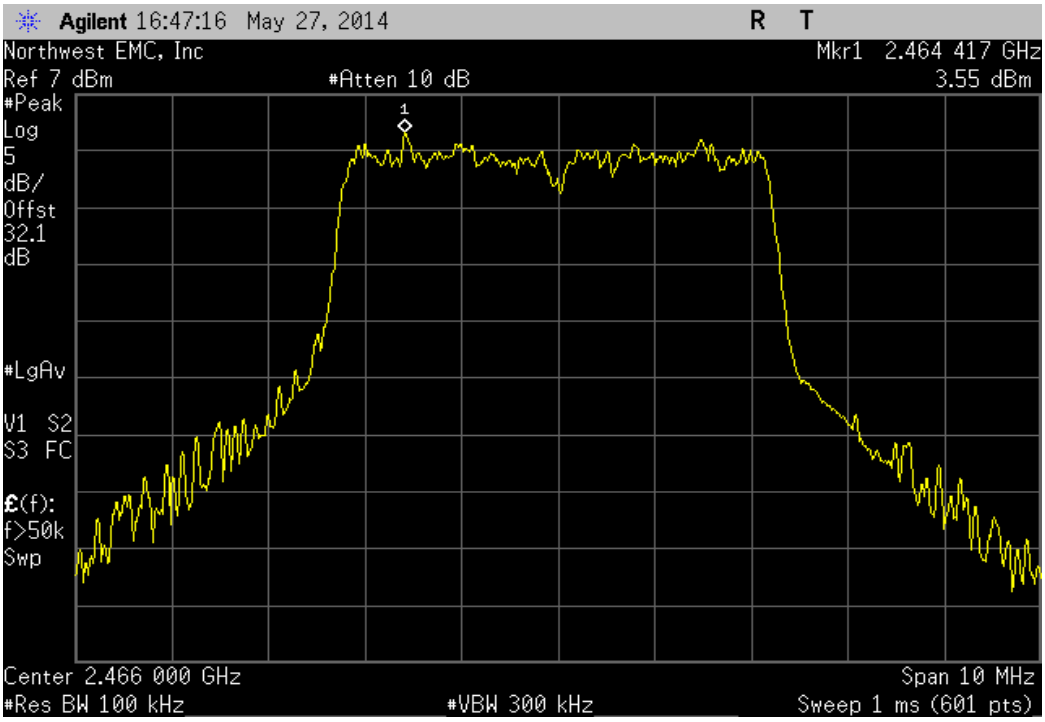


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		4.297	-15.2	-10.903	8	Pass

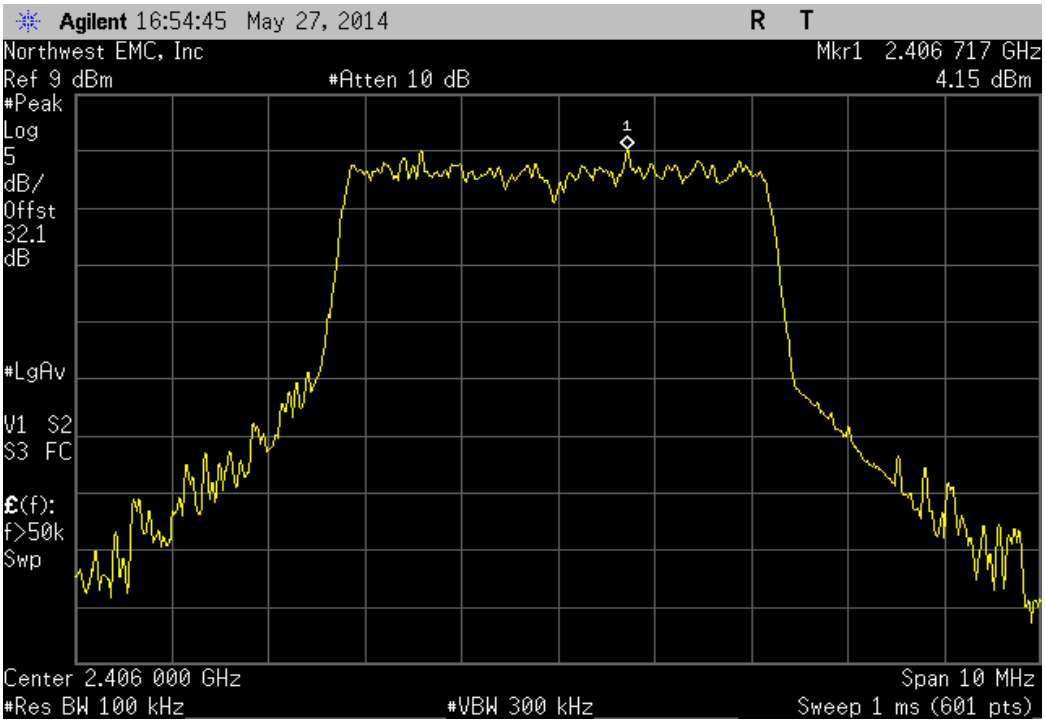


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.546	-15.2	-11.654	8	Pass

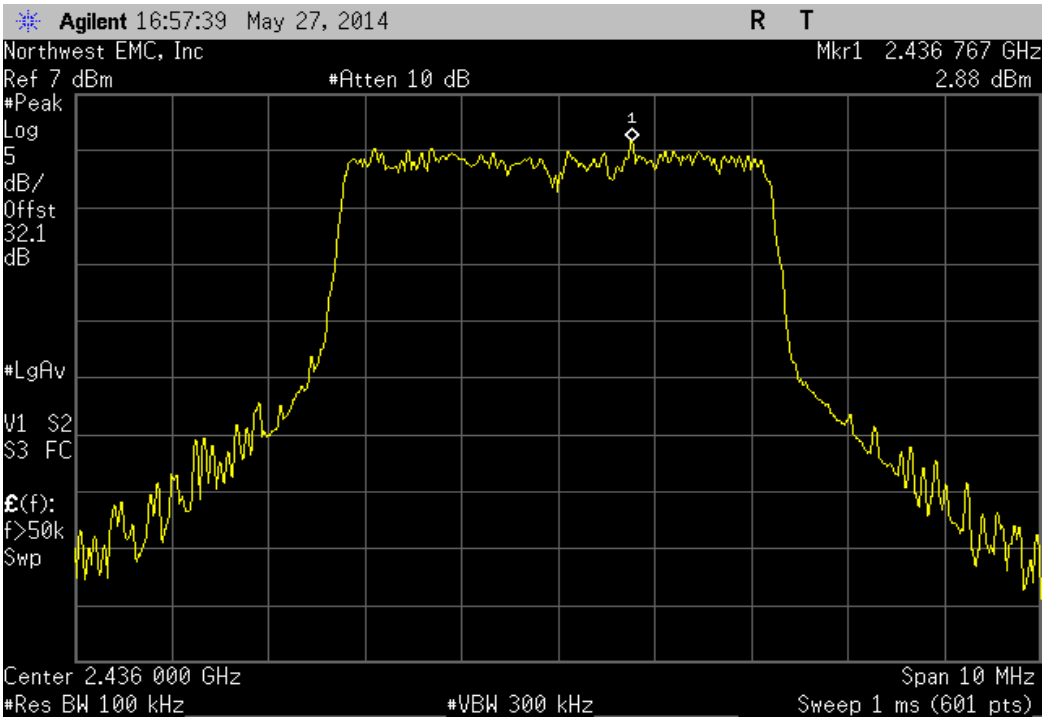


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		4.152	-15.2	-11.048	8	Pass

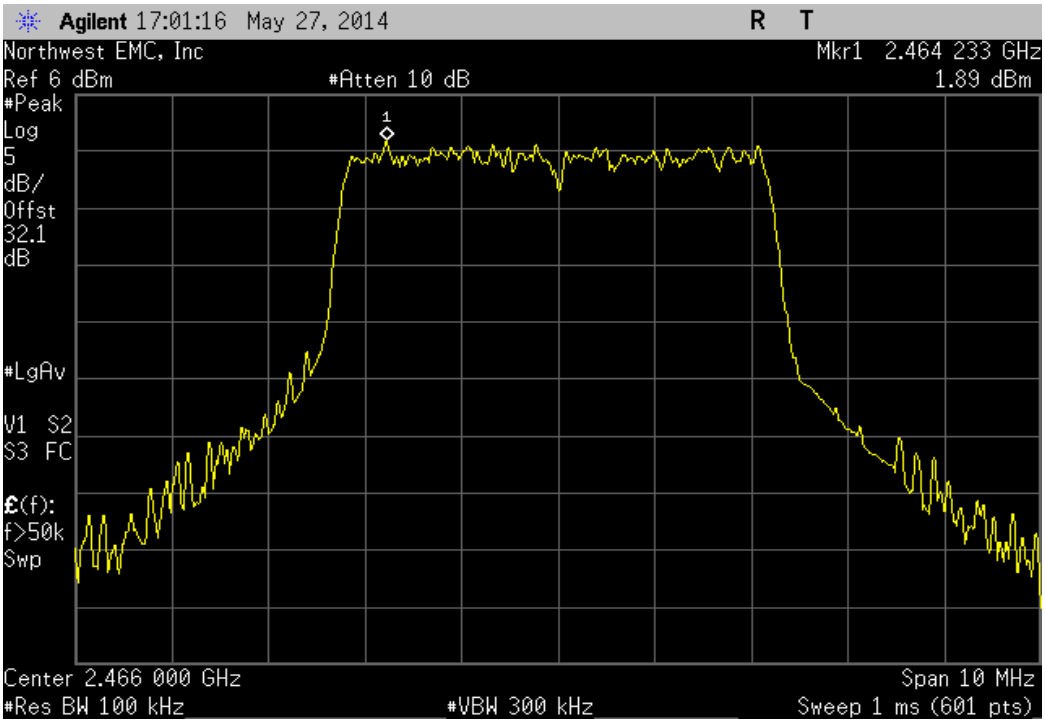


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.878	-15.2	-12.322	8	Pass

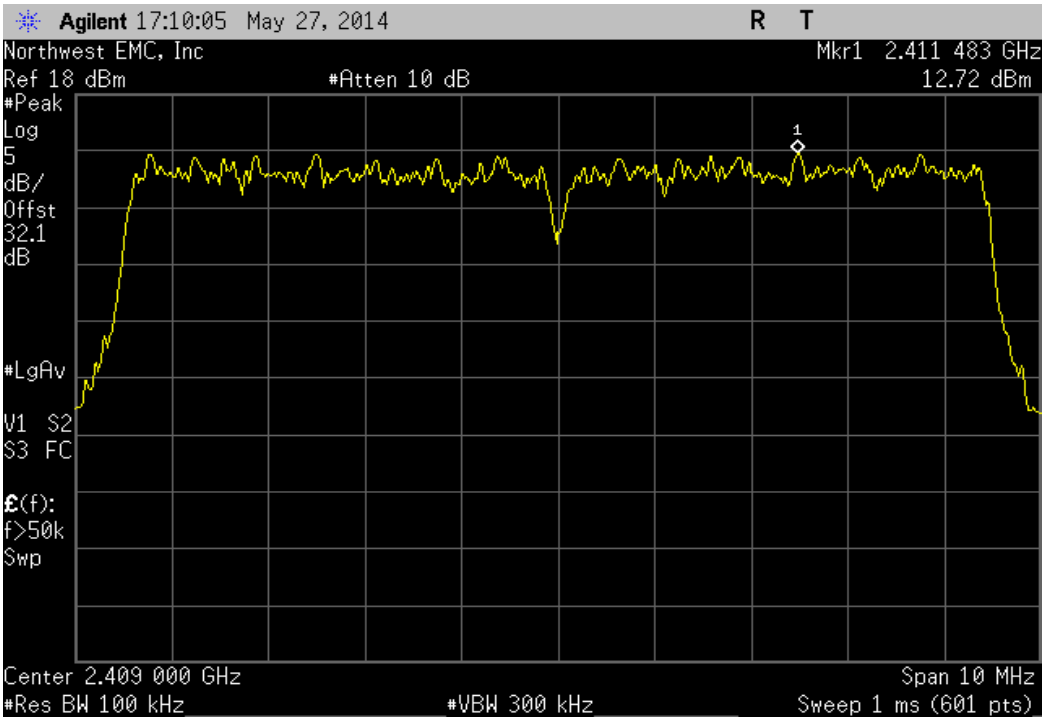


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		1.893	-15.2	-13.307	8	Pass

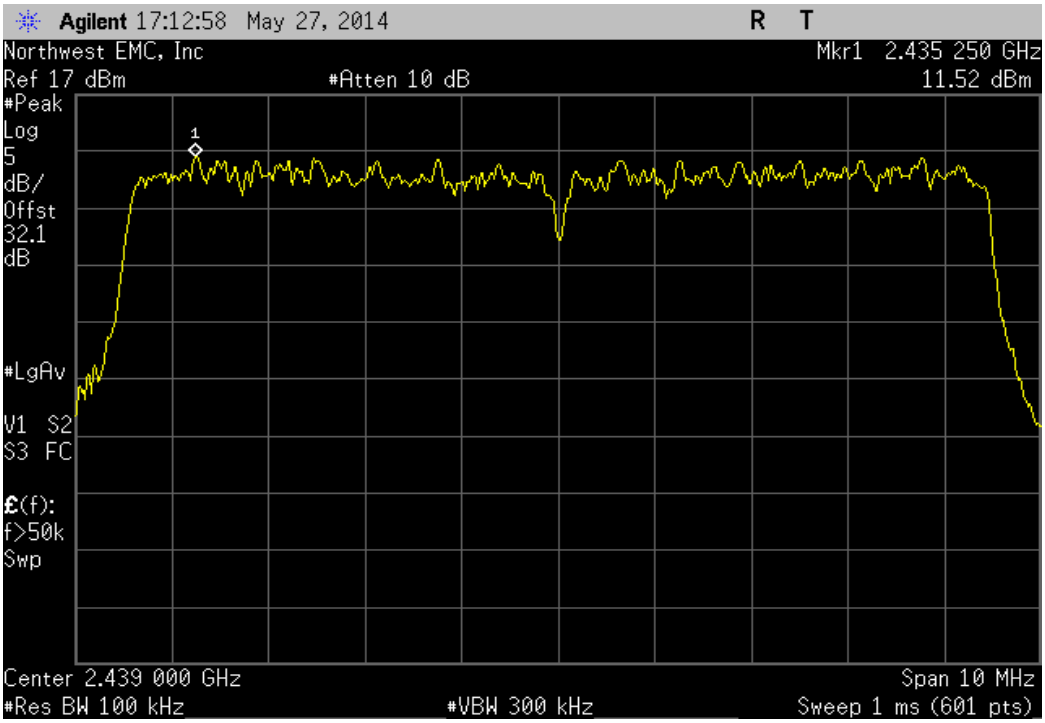


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.722	-15.2	-2.478	8	Pass

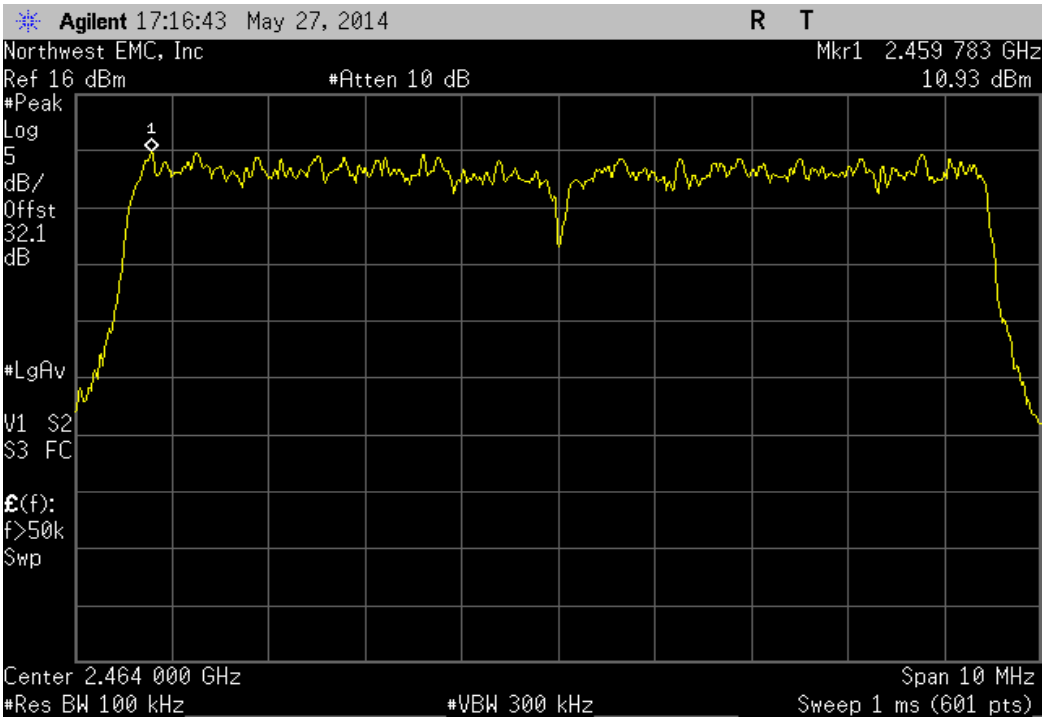


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.517	-15.2	-3.683	8	Pass

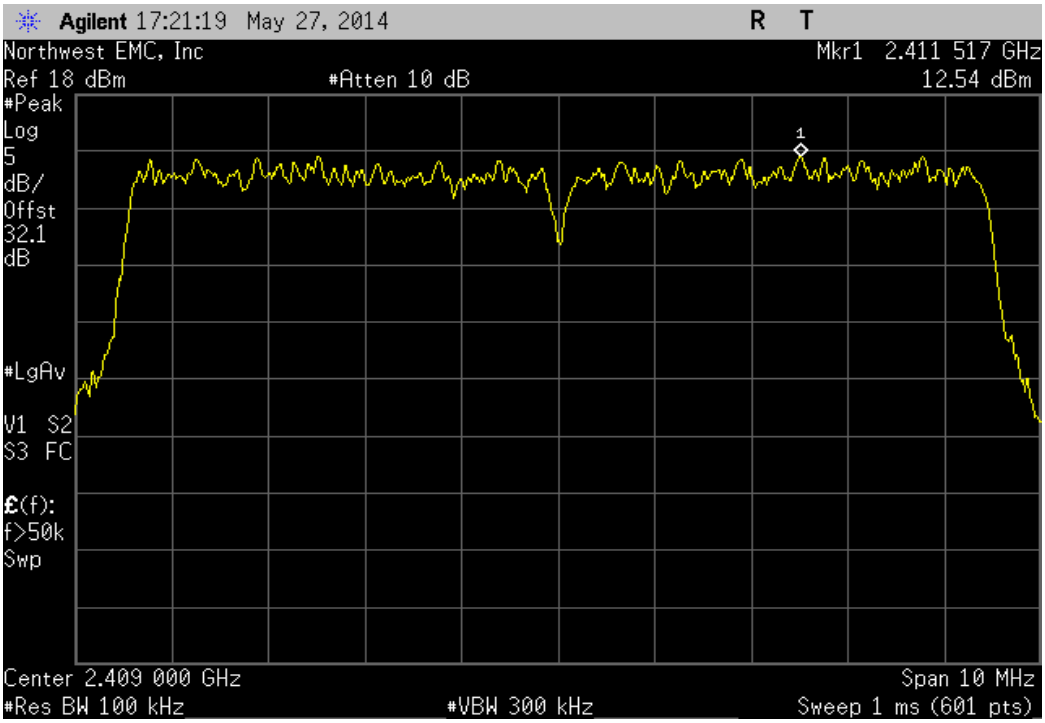


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.925	-15.2	-4.275	8	Pass

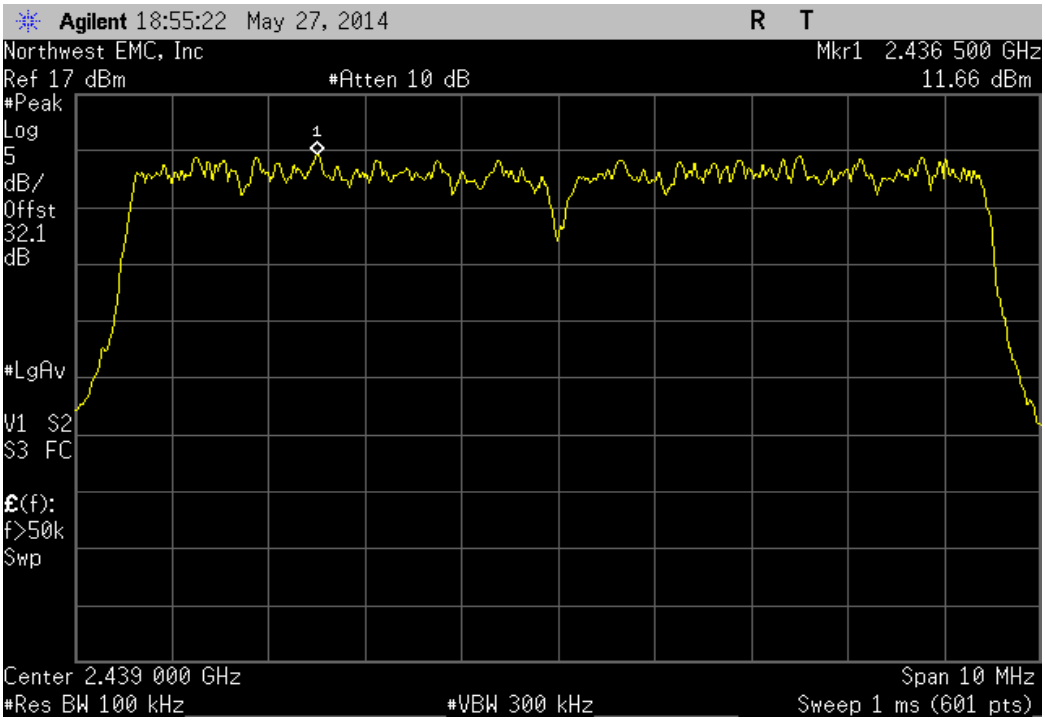


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.539	-15.2	-2.661	8	Pass

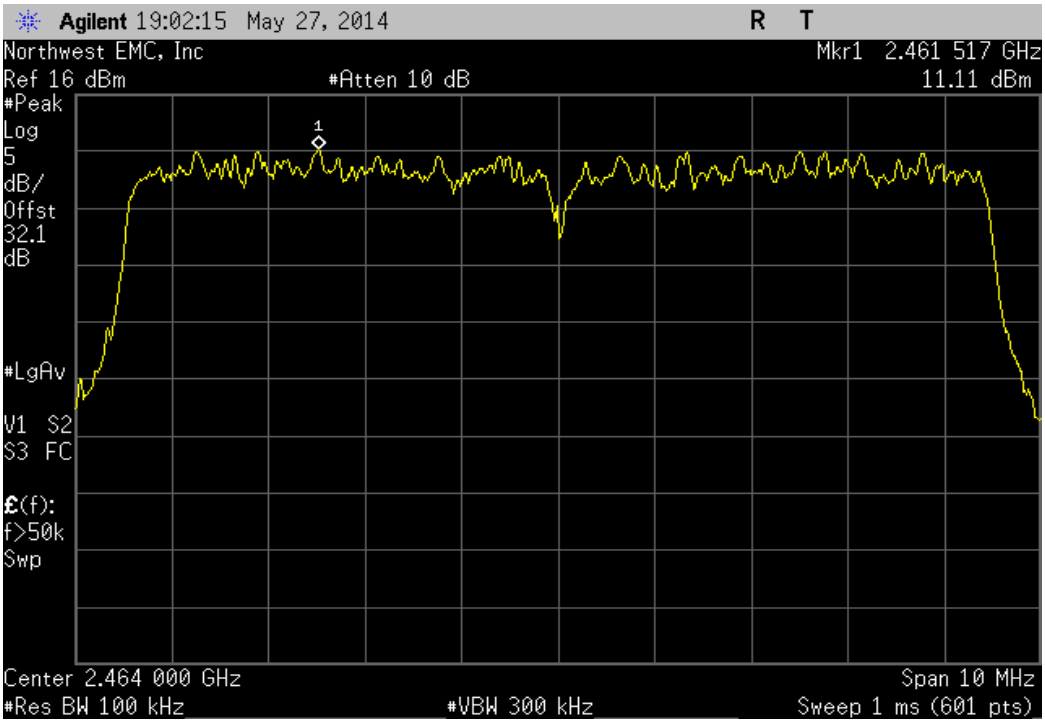


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.661	-15.2	-3.539	8	Pass



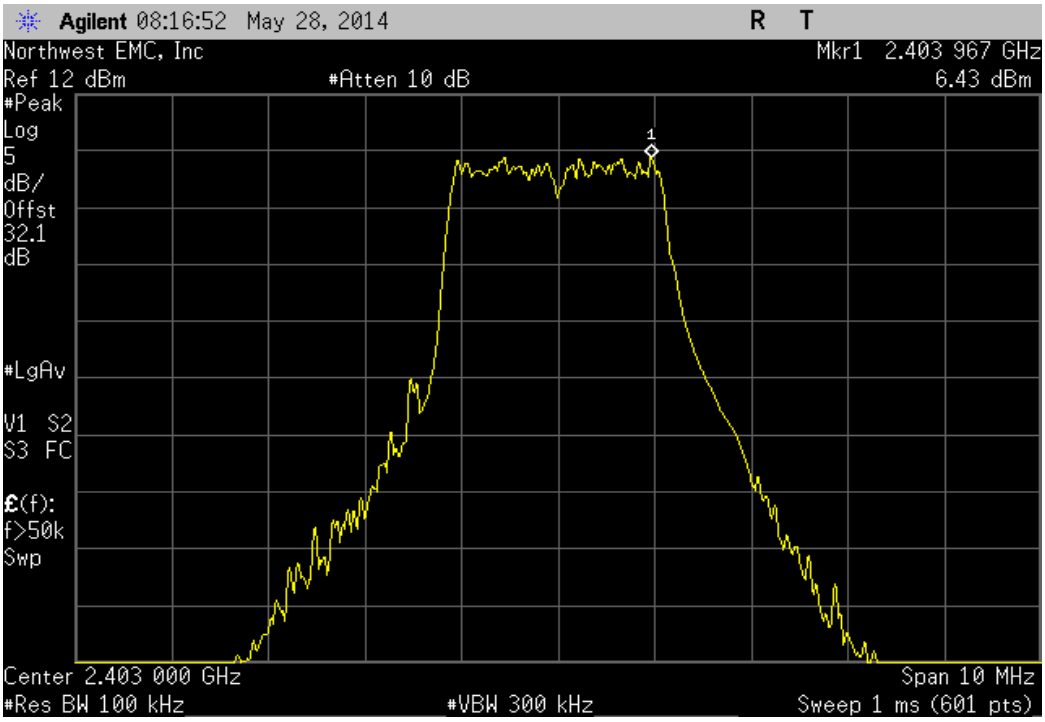
Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.108	-15.2	-4.092	8	Pass



POWER SPECTRAL DENSITY - 2x2 MIMO

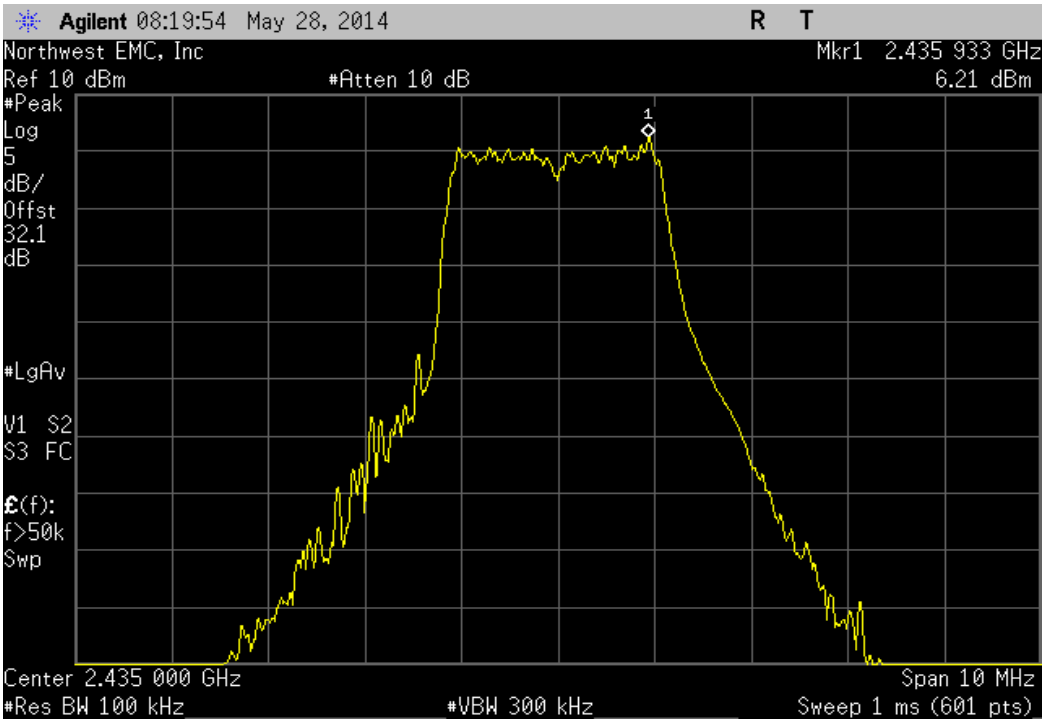
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz

		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.426	-15.2	-8.774	8	Pass



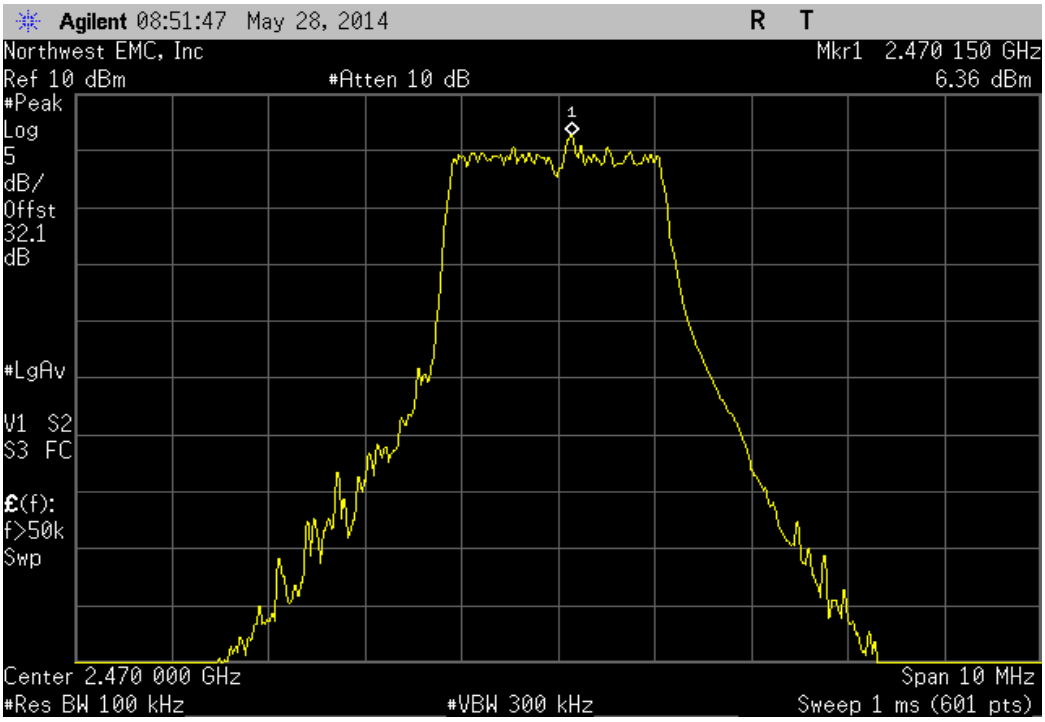
Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz

		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.207	-15.2	-8.993	8	Pass

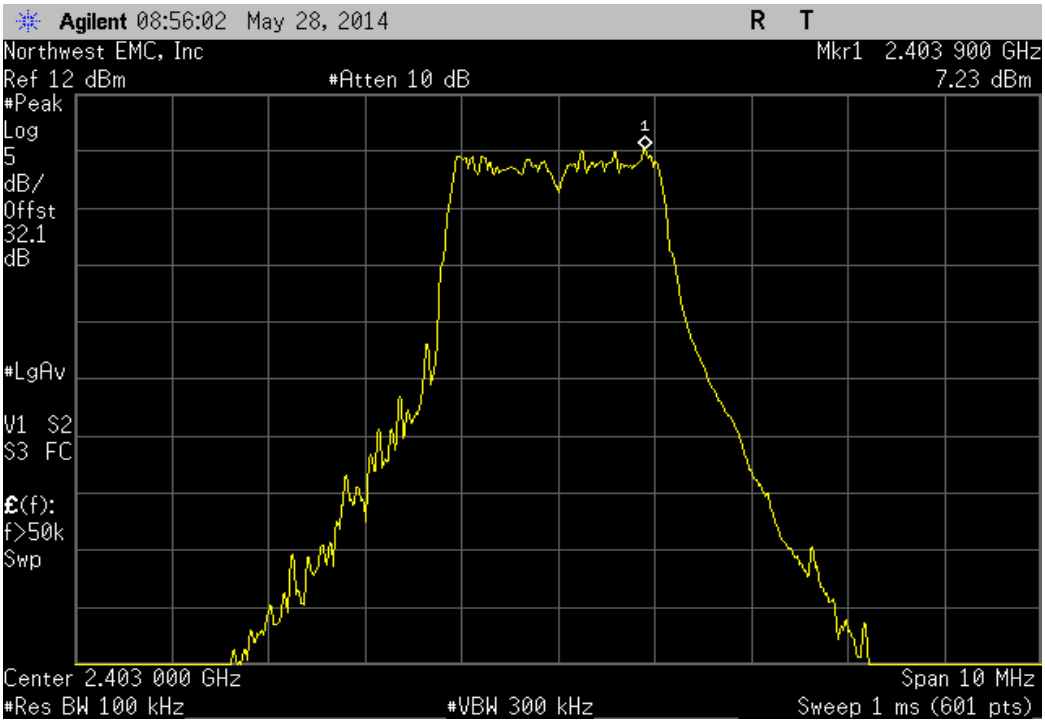


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.361	-15.2	-8.839	8	Pass

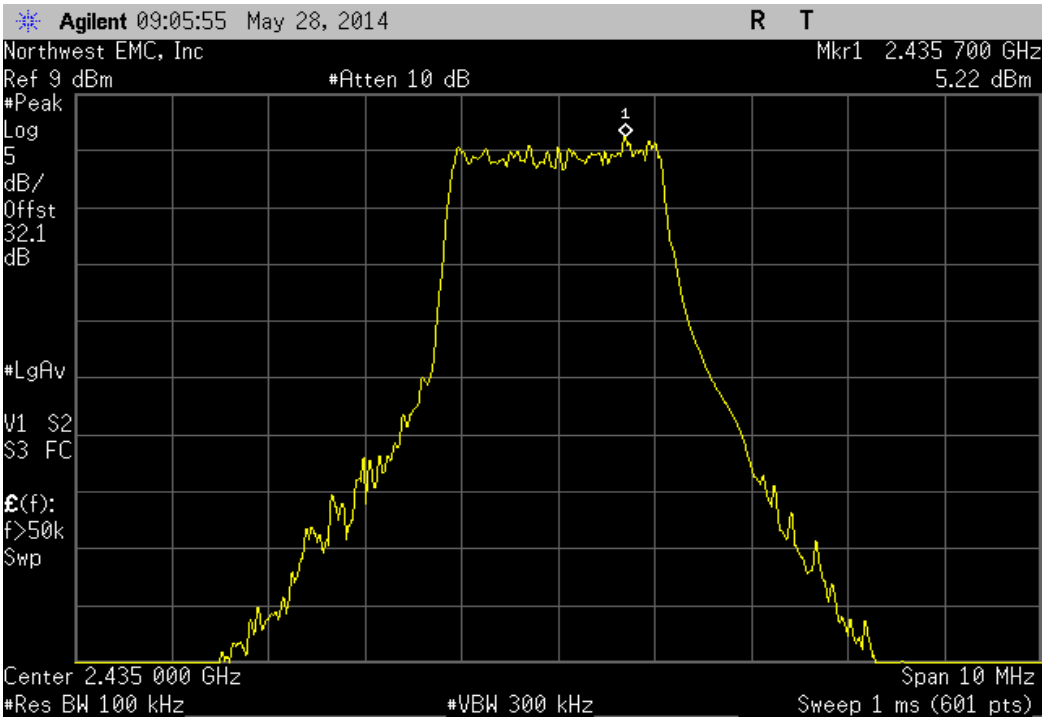


Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.233	-15.2	-7.967	8	Pass

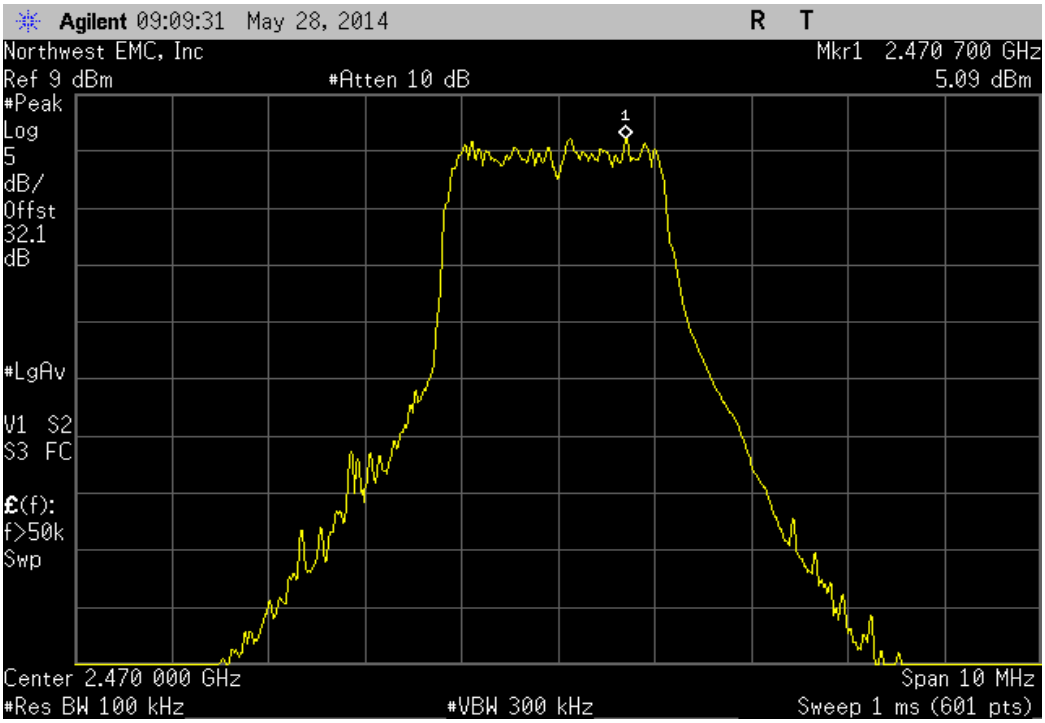


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.22	-15.2	-9.98	8	Pass

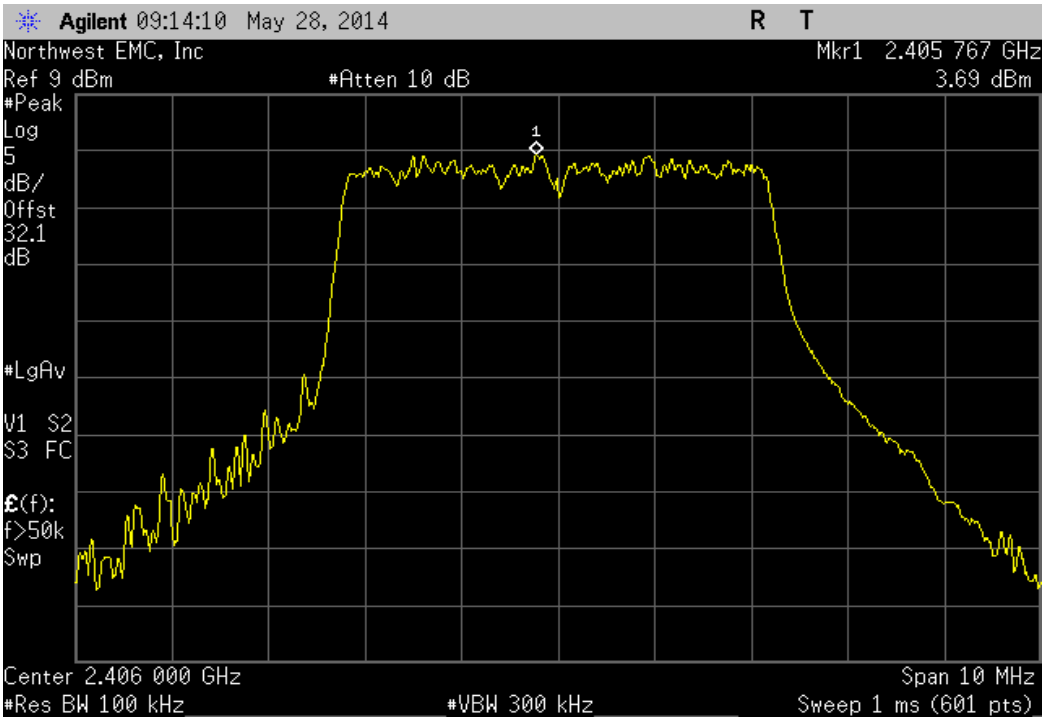


Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.093	-15.2	-10.107	8	Pass

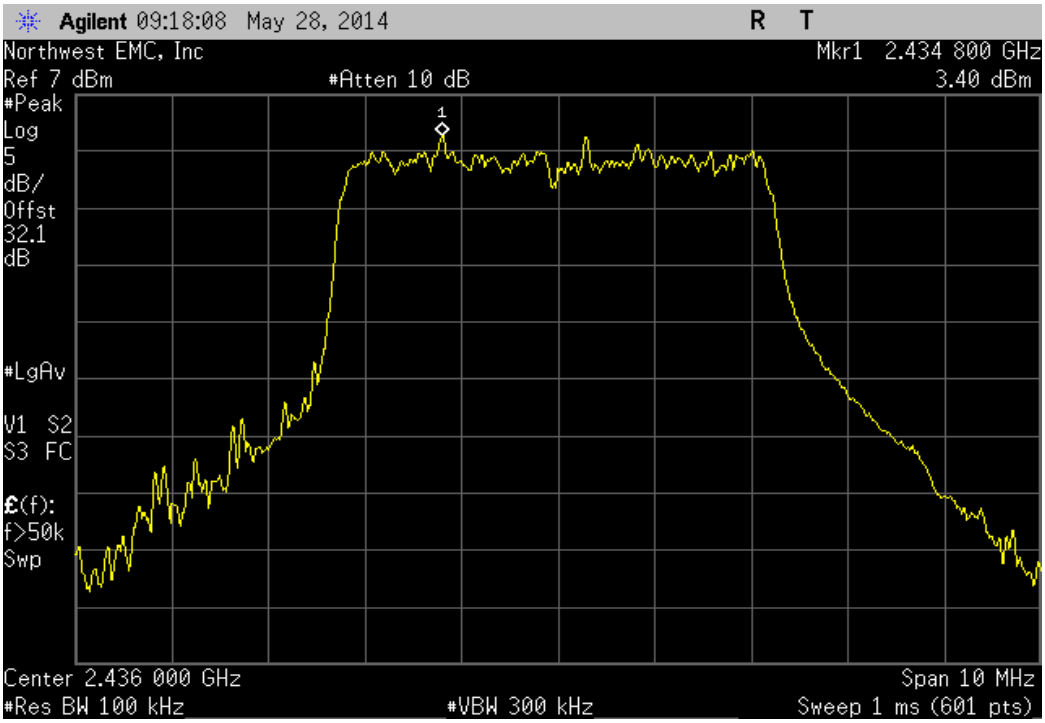


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.693	-15.2	-11.507	8	Pass

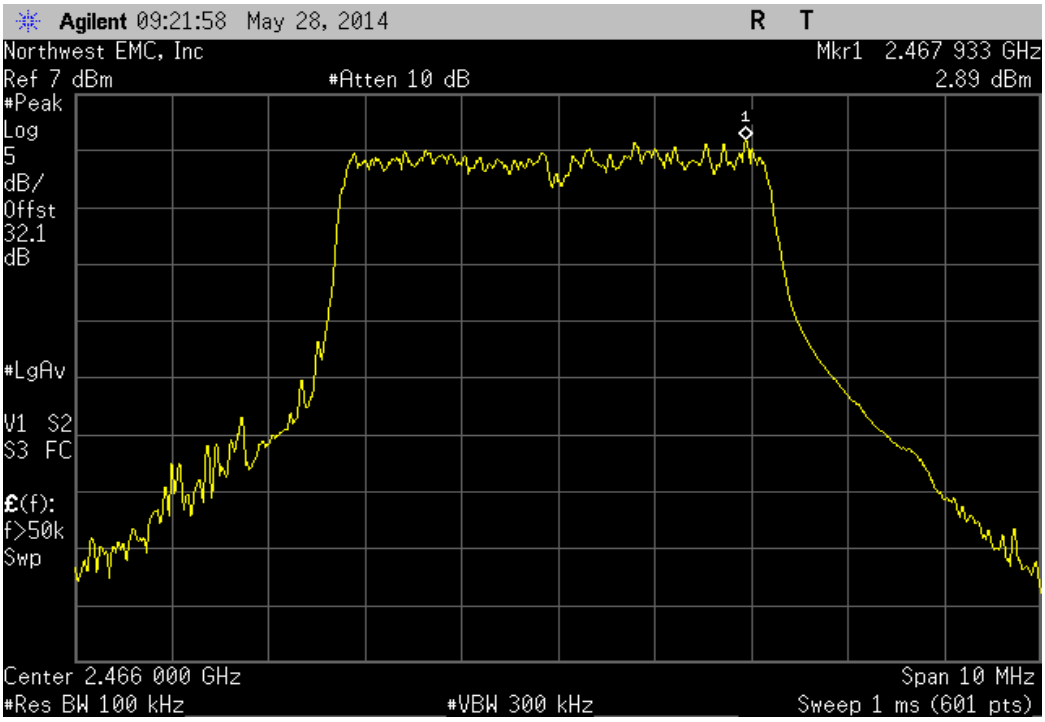


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.396	-15.2	-11.804	8	Pass

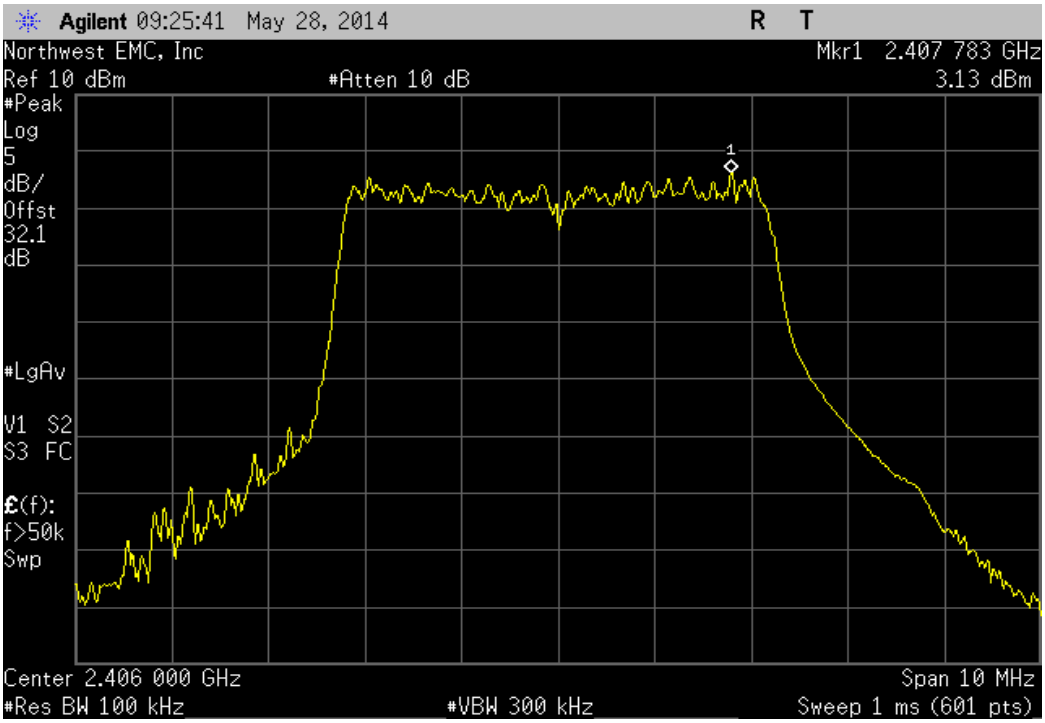


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.894	-15.2	-12.306	8	Pass

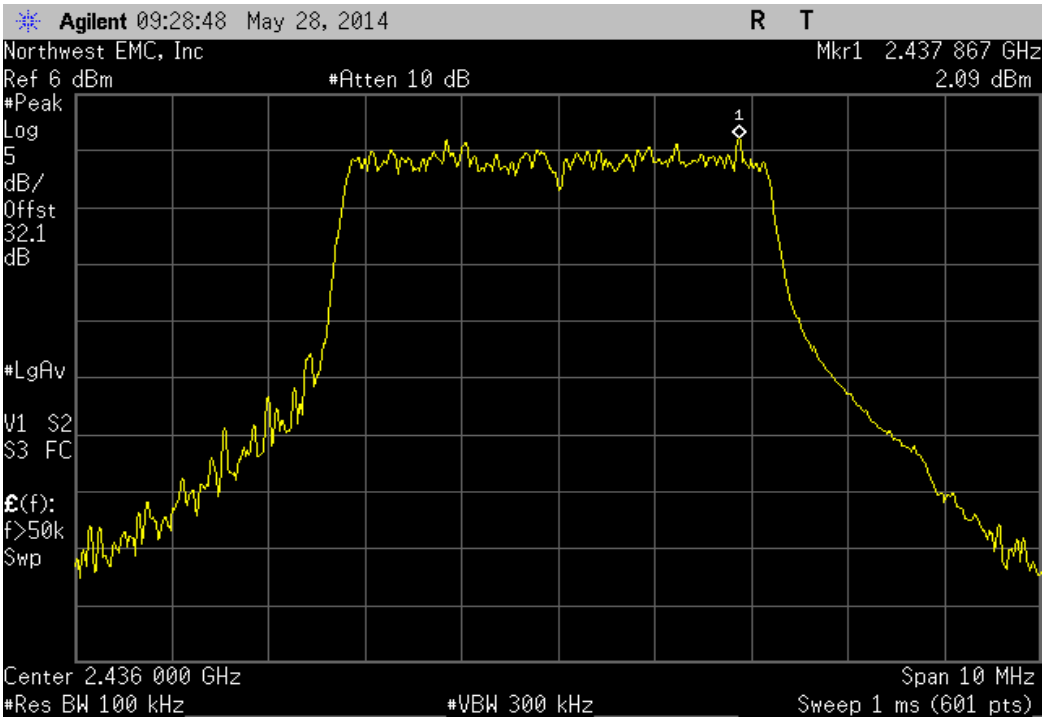


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.126	-15.2	-12.074	8	Pass

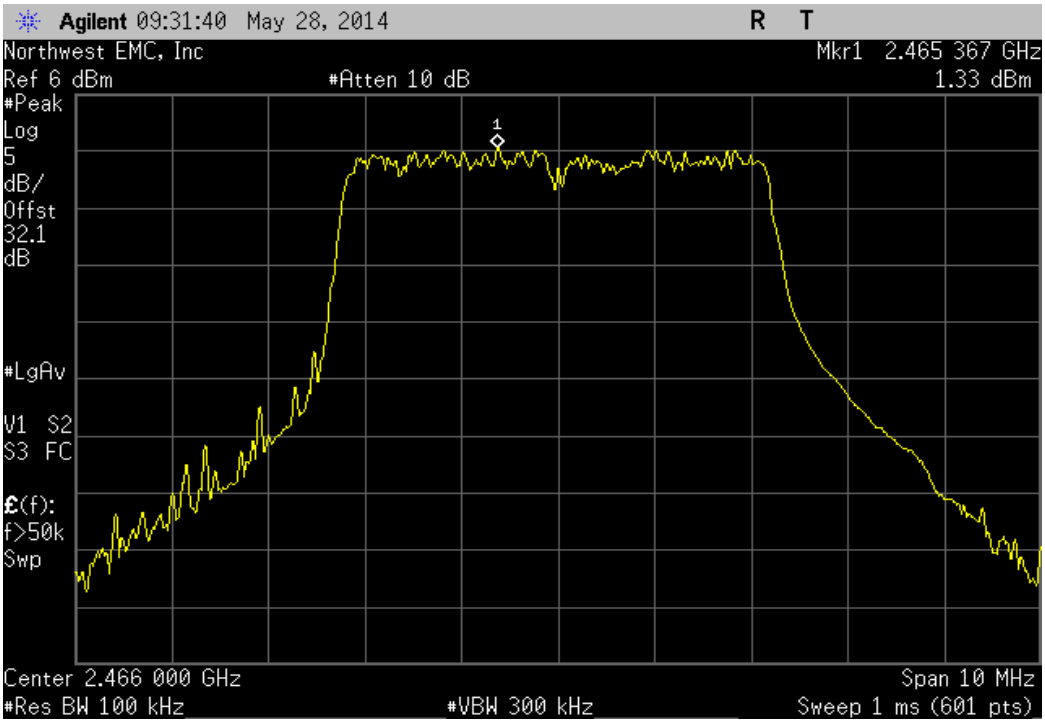


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.094	-15.2	-13.106	8	Pass

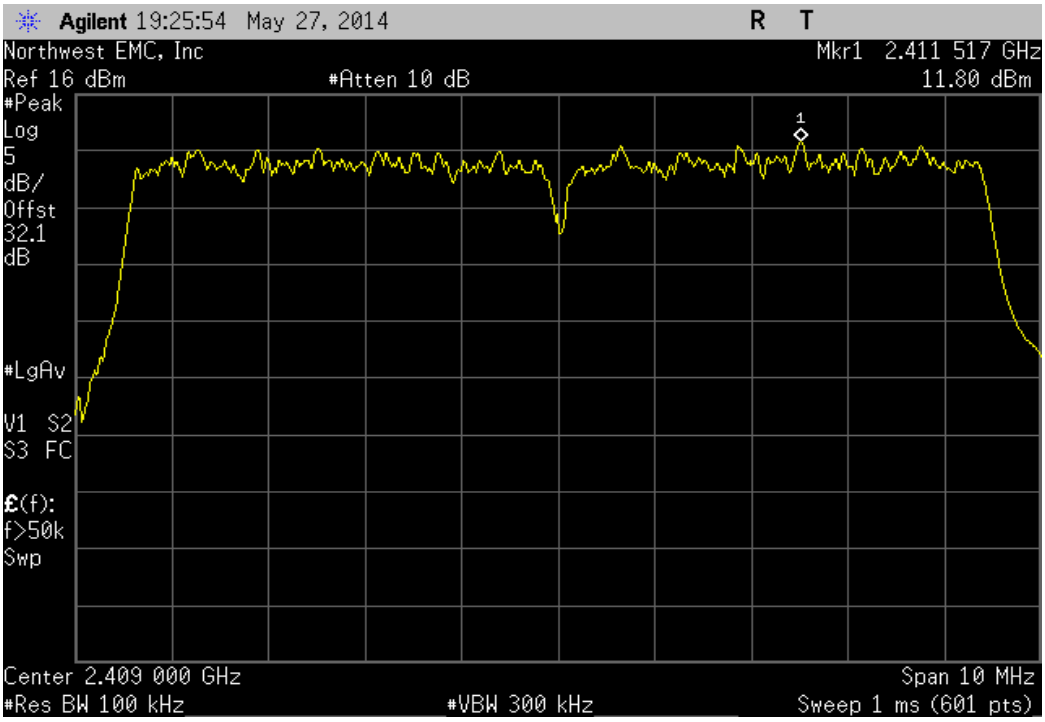


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		1.333	-15.2	-13.867	8	Pass

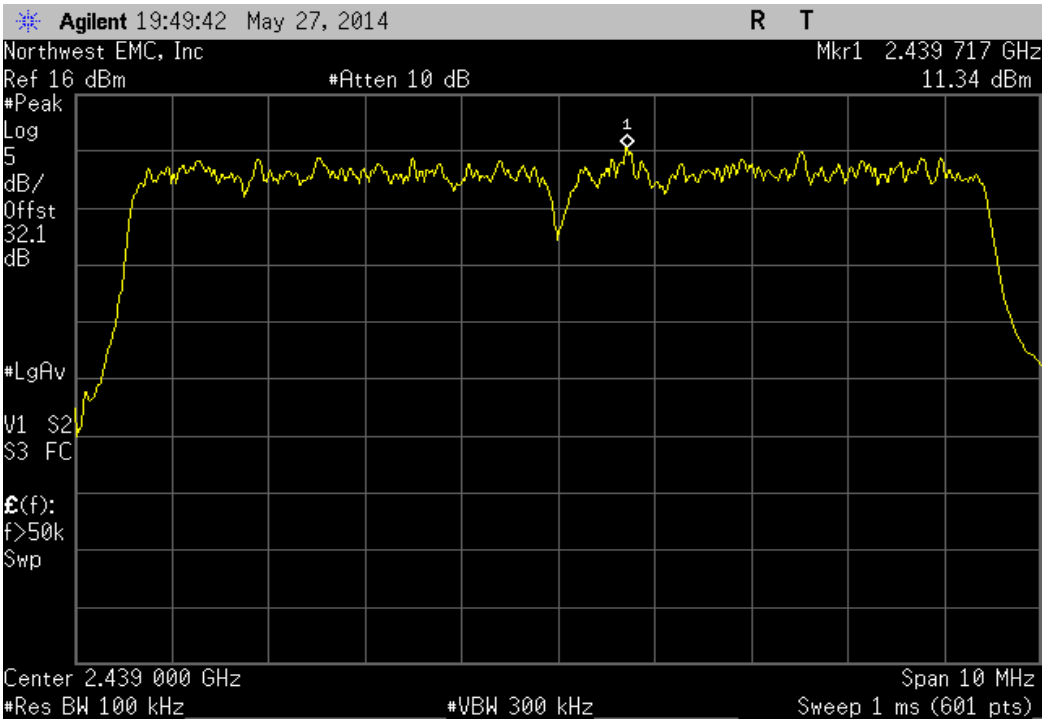


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.801	-15.2	-3.399	8	Pass

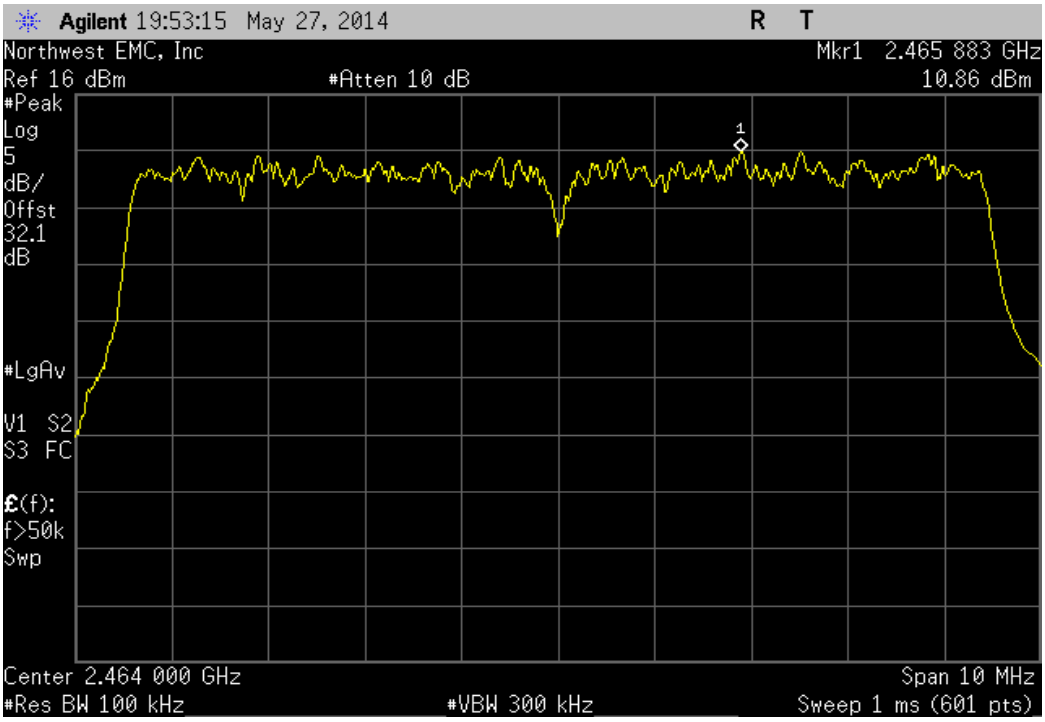


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.342	-15.2	-3.858	8	Pass

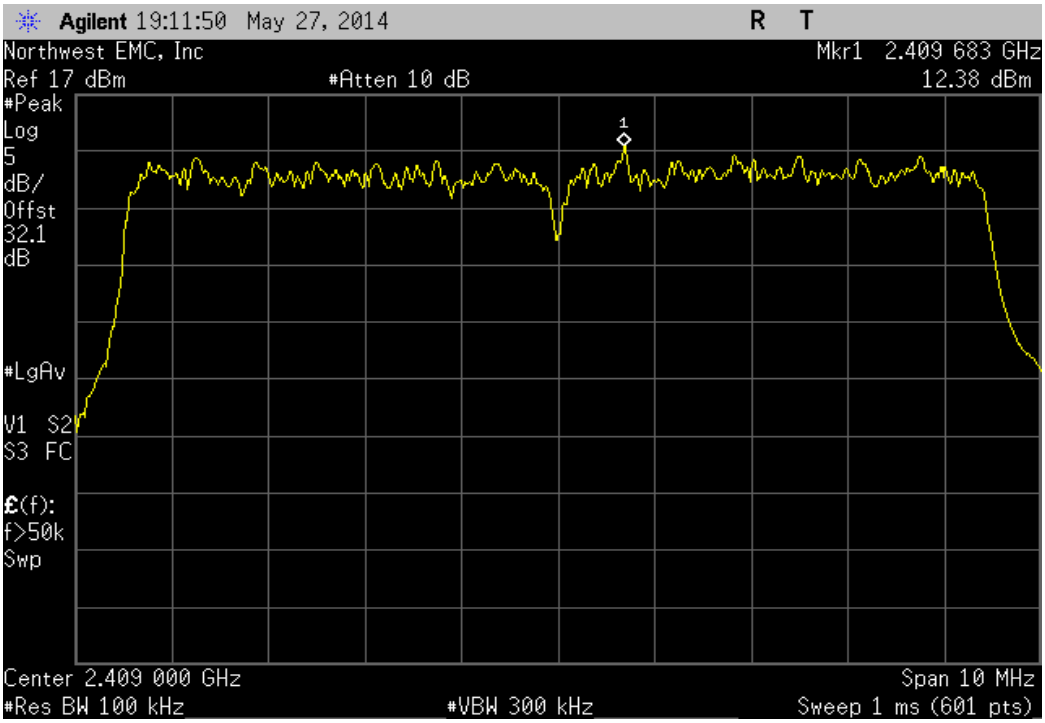


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.864	-15.2	-4.336	8	Pass

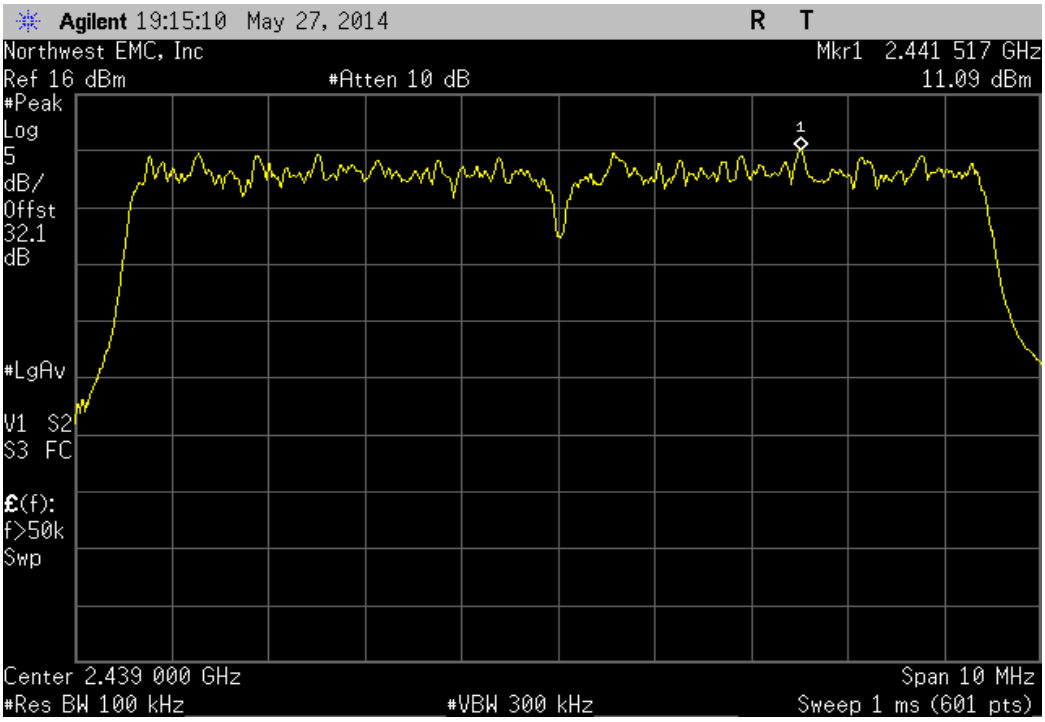


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		12.383	-15.2	-2.817	8	Pass

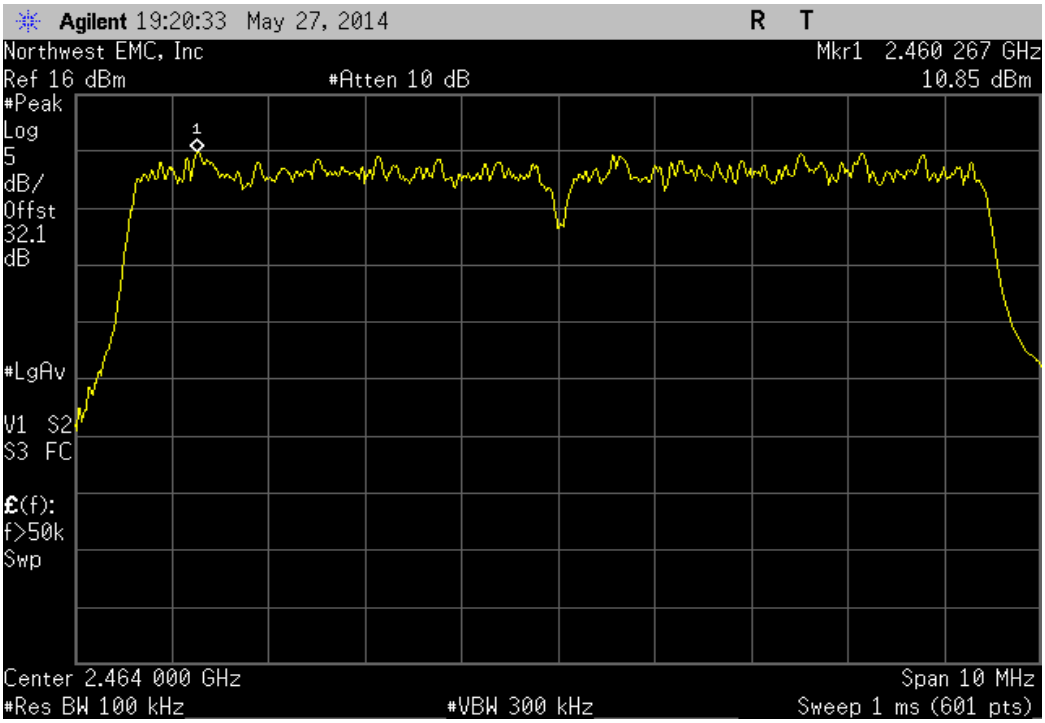


POWER SPECTRAL DENSITY - 2x2 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		11.086	-15.2	-4.114	8	Pass



Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 2x2 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		10.849	-15.2	-4.351	8	Pass



POWER SPECTRAL DENSITY - 3x3 MIMO

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The maximum power spectral density measurements were measured with the EUT set to the required transmit frequencies in each band. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the lowest, middle, and maximum data rate for each modulation type available.

Per the procedure outlined in FCC KDB 558074 D01 DTS Measurement Section 5.3.1, the spectrum analyzer was used as follows:

- RBW = 100 kHz
- VBW = 300 kHz
- Detector = Peak (to match method used for power measurement)
- Trace = Max hold

The observed power level is then scaled to an equivalent value in 3 kHz by adding a Bandwidth Correction Factor (BWCF) where:

BWCF = 10*LOG (3 kHz / 100 kHz) = -15.2 dB

For 3x3 MIMO mode of operation, per FCC KDB 662911 (D01 Multiple Transmitter Output v02r01), the summed power spectral density value was calculated by adding the value of 10*LOG(nAnt)dB to each of the single port measurement while operating in the MIMO mode. The resulting value to be added to a three antenna system is 10*LOG(3) = 4.77 dB

POWER SPECTRAL DENSITY - 3x3 MIMO

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table.

DEVIATIONS FROM TEST STANDARD

None

Configuration #	1	Signature

	Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
Chain 1					
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	6.952	-15.2	-8.248	8	N/A
Mid Channel 2435 MHz	6.523	-15.2	-8.677	8	N/A
High Channel 2470 MHz	5.284	-15.2	-9.916	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	6.133	-15.2	-9.067	8	N/A
Mid Channel 2435 MHz	5.269	-15.2	-9.931	8	N/A
High Channel 2470 MHz	4.501	-15.2	-10.699	8	N/A
5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	2.934	-15.2	-12.266	8	N/A
Mid Channel 2436 MHz	1.688	-15.2	-13.512	8	N/A
High Channel 2466 MHz	0.856	-15.2	-14.344	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	2.78	-15.2	-12.42	8	N/A
Mid Channel 2436 MHz	1.853	-15.2	-13.347	8	N/A
High Channel 2466 MHz	1.596	-15.2	-13.604	8	N/A
10MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	9.937	-15.2	-5.263	8	N/A
Mid Channel 2439 MHz	8.758	-15.2	-6.442	8	N/A
High Channel 2464 MHz	8.691	-15.2	-6.509	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	9.982	-15.2	-5.218	8	N/A
Mid Channel 2439 MHz	9.214	-15.2	-5.986	8	N/A
High Channel 2464 MHz	8.206	-15.2	-6.994	8	N/A
Chain 2					
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	6.791	-15.2	-8.409	8	N/A
Mid Channel 2435 MHz	5.493	-15.2	-9.707	8	N/A
High Channel 2470 MHz	5.271	-15.2	-9.929	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	6.684	-15.2	-8.516	8	N/A
Mid Channel 2435 MHz	5.215	-15.2	-9.985	8	N/A
High Channel 2470 MHz	5.807	-15.2	-9.393	8	N/A
5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	5.459	-15.2	-9.741	8	N/A
Mid Channel 2436 MHz	2.533	-15.2	-12.667	8	N/A
High Channel 2466 MHz	3.469	-15.2	-11.731	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	4.486	-15.2	-10.714	8	N/A
Mid Channel 2436 MHz	2.319	-15.2	-12.881	8	N/A
High Channel 2466 MHz	2.916	-15.2	-12.284	8	N/A
10MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	9.381	-15.2	-5.819	8	N/A
Mid Channel 2439 MHz	8.248	-15.2	-6.952	8	N/A
High Channel 2464 MHz	7.8	-15.2	-7.4	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	9.661	-15.2	-5.539	8	N/A
Mid Channel 2439 MHz	8.109	-15.2	-7.091	8	N/A
High Channel 2464 MHz	8.272	-15.2	-6.928	8	N/A
Chain 3					
2400 MHz - 2483.5 MHz Band					
2.5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2403 MHz	5.825	-15.2	-9.375	8	N/A
Mid Channel 2435 MHz	6.251	-15.2	-8.949	8	N/A
High Channel 2470 MHz	6.241	-15.2	-8.959	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2403 MHz	5.966	-15.2	-9.234	8	N/A
Mid Channel 2435 MHz	6.399	-15.2	-8.801	8	N/A
High Channel 2470 MHz	6.219	-15.2	-8.981	8	N/A
5MHz Bandwidth					
3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2406 MHz	2.999	-15.2	-12.201	8	N/A
Mid Channel 2436 MHz	3.089	-15.2	-12.111	8	N/A
High Channel 2466 MHz	3.305	-15.2	-11.895	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2406 MHz	2.976	-15.2	-12.224	8	N/A
Mid Channel 2436 MHz	3.314	-15.2	-11.886	8	N/A
High Channel 2466 MHz	3.433	-15.2	-11.767	8	N/A
10MHz Bandwidth					

3x3 Modulation Type, BPSK, Coding Rate, 1/2.					
Low Channel 2409 MHz	8.427	-15.2	-6.773	8	N/A
Mid Channel 2439 MHz	7.931	-15.2	-7.269	8	N/A
High Channel 2464 MHz	7.477	-15.2	-7.723	8	N/A
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.					
Low Channel 2409 MHz	7.722	-15.2	-7.478	8	N/A
Mid Channel 2439 MHz	8.541	-15.2	-6.659	8	N/A
High Channel 2464 MHz	8.272	-15.2	-6.928	8	N/A

Chain 1 SUMMING

2400 MHz - 2483.5 MHz Band

2.5MHz Bandwidth	Value	Summing Factor	dBm/100kHz	Summed Power	Limit	
3x3 Modulation Type, BPSK, Coding Rate, 1/2.	(dBm/MHz)	(dBm)	To dBm/3kHz	(dBm/MHz)	(dBm/MHz)	Results
Low Channel 2403 MHz	6.952	4.77	-15.2	-3.478	8	Pass
Mid Channel 2435 MHz	6.523	4.77	-15.2	-3.907	8	Pass
High Channel 2470 MHz	5.284	4.77	-15.2	-5.146	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	6.133	4.77	-15.2	-4.297	8	Pass
Mid Channel 2436 MHz	5.269	4.77	-15.2	-5.161	8	Pass
High Channel 2466 MHz	4.501	4.77	-15.2	-5.929	8	Pass
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	2.934	4.77	-15.2	-7.496	8	Pass
Mid Channel 2436 MHz	1.688	4.77	-15.2	-8.742	8	Pass
High Channel 2466 MHz	0.856	4.77	-15.2	-9.574	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	2.78	4.77	-15.2	-7.65	8	Pass
Mid Channel 2436 MHz	1.853	4.77	-15.2	-8.577	8	Pass
High Channel 2466 MHz	1.596	4.77	-15.2	-8.834	8	Pass
10MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	9.937	4.77	-15.2	-0.493	8	Pass
Mid Channel 2439 MHz	8.758	4.77	-15.2	-1.672	8	Pass
High Channel 2464 MHz	8.691	4.77	-15.2	-1.739	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	9.982	4.77	-15.2	-0.448	8	Pass
Mid Channel 2439 MHz	9.214	4.77	-15.2	-1.216	8	Pass
High Channel 2464 MHz	8.206	4.77	-15.2	-2.224	8	Pass

Chain 2 SUMMING

2400 MHz - 2483.5 MHz Band

2.5MHz Bandwidth	Value	Summing Factor	dBm/100kHz	Summed Power	Limit	
3x3 Modulation Type, BPSK, Coding Rate, 1/2.	(dBm/MHz)	(dBm)	To dBm/3kHz	(dBm/MHz)	(dBm/MHz)	Results
Low Channel 2406 MHz	6.791	4.77	-15.2	-3.639	8	Pass
Mid Channel 2436 MHz	5.493	4.77	-15.2	-4.937	8	Pass
High Channel 2466 MHz	5.271	4.77	-15.2	-5.159	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	6.684	4.77	-15.2	-3.746	8	Pass
Mid Channel 2436 MHz	5.215	4.77	-15.2	-5.215	8	Pass
High Channel 2466 MHz	5.807	4.77	-15.2	-4.623	8	Pass
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	5.459	4.77	-15.2	-4.971	8	Pass
Mid Channel 2436 MHz	2.533	4.77	-15.2	-7.897	8	Pass
High Channel 2466 MHz	3.469	4.77	-15.2	-6.961	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	4.486	4.77	-15.2	-5.944	8	Pass
Mid Channel 2436 MHz	2.319	4.77	-15.2	-8.111	8	Pass
High Channel 2466 MHz	2.916	4.77	-15.2	-7.514	8	Pass
10MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	9.381	4.77	-15.2	-1.049	8	Pass
Mid Channel 2439 MHz	8.248	4.77	-15.2	-2.182	8	Pass
High Channel 2464 MHz	7.8	4.77	-15.2	-2.63	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	9.661	4.77	-15.2	-0.769	8	Pass
Mid Channel 2439 MHz	8.109	4.77	-15.2	-2.321	8	Pass
High Channel 2464 MHz	8.272	4.77	-15.2	-2.158	8	Pass

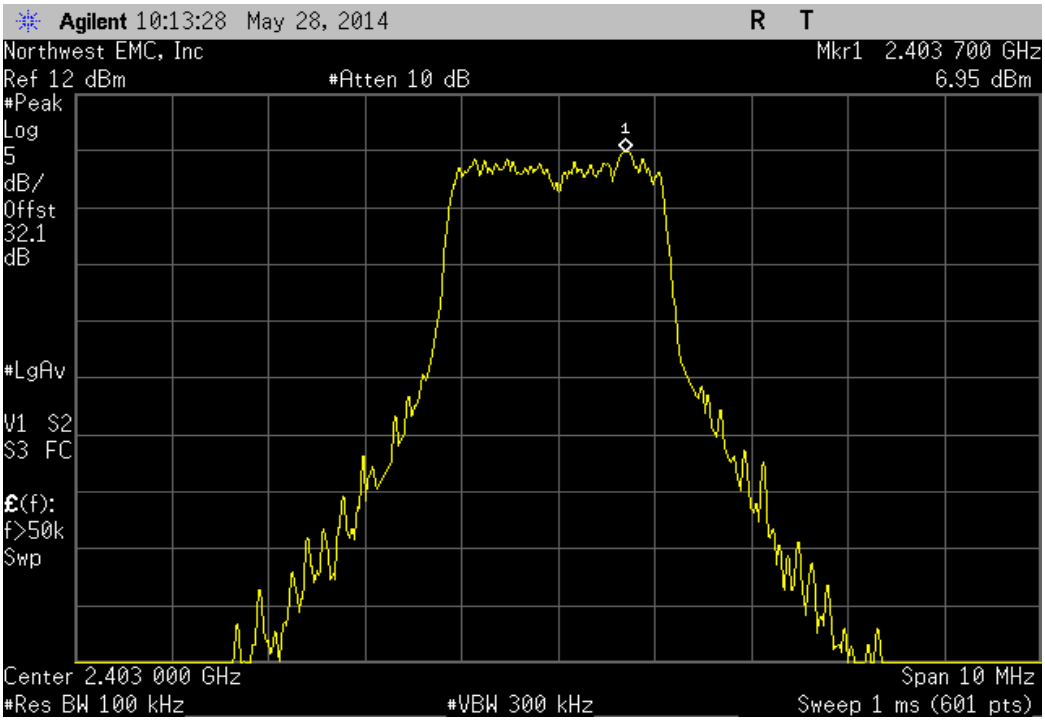
Chain 3SUMMING

2400 MHz - 2483.5 MHz Band

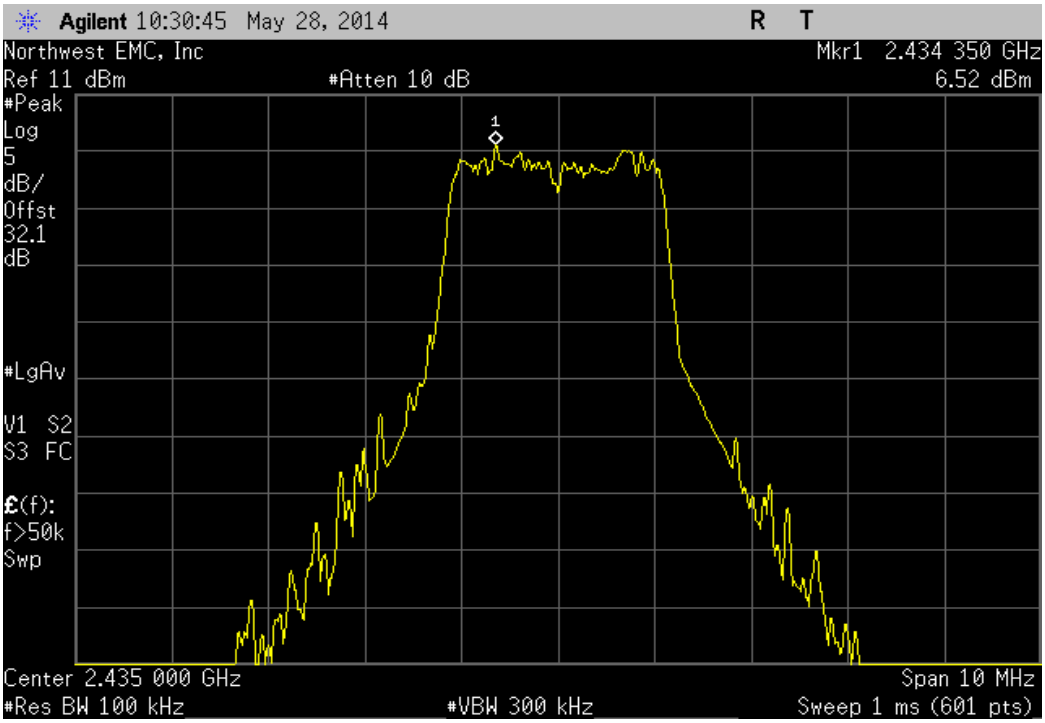
2.5MHz Bandwidth	Value	Summing Factor	dBm/100kHz	Summed Power	Limit	
3x3 Modulation Type, BPSK, Coding Rate, 1/2.	(dBm/MHz)	(dBm)	To dBm/3kHz	(dBm/MHz)	(dBm/MHz)	Results
Low Channel 2406 MHz	5.825	4.77	-15.2	-4.605	8	Pass
Mid Channel 2436 MHz	6.251	4.77	-15.2	-4.179	8	Pass
High Channel 2466 MHz	6.241	4.77	-15.2	-4.189	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	5.966	4.77	-15.2	-4.464	8	Pass
Mid Channel 2436 MHz	6.399	4.77	-15.2	-4.031	8	Pass
High Channel 2466 MHz	6.219	4.77	-15.2	-4.211	8	Pass
5MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2406 MHz	2.999	4.77	-15.2	-7.431	8	Pass
Mid Channel 2436 MHz	3.089	4.77	-15.2	-7.341	8	Pass
High Channel 2466 MHz	3.305	4.77	-15.2	-7.125	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2406 MHz	2.976	4.77	-15.2	-7.454	8	Pass
Mid Channel 2436 MHz	3.314	4.77	-15.2	-7.116	8	Pass
High Channel 2466 MHz	3.433	4.77	-15.2	-6.997	8	Pass
10MHz Bandwidth						
3x3 Modulation Type, BPSK, Coding Rate, 1/2.						
Low Channel 2409 MHz	8.427	4.77	-15.2	-2.003	8	Pass
Mid Channel 2439 MHz	7.931	4.77	-15.2	-2.499	8	Pass
High Channel 2464 MHz	7.477	4.77	-15.2	-2.953	8	Pass
3x3 Modulation Type, 64-QAM, Coding Rate, 5/6.						
Low Channel 2409 MHz	7.722	4.77	-15.2	-2.708	8	Pass
Mid Channel 2439 MHz	8.541	4.77	-15.2	-1.889	8	Pass
High Channel 2464 MHz	8.272	4.77	-15.2	-2.158	8	Pass

POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.952	-15.2	-8.248	8	Pass

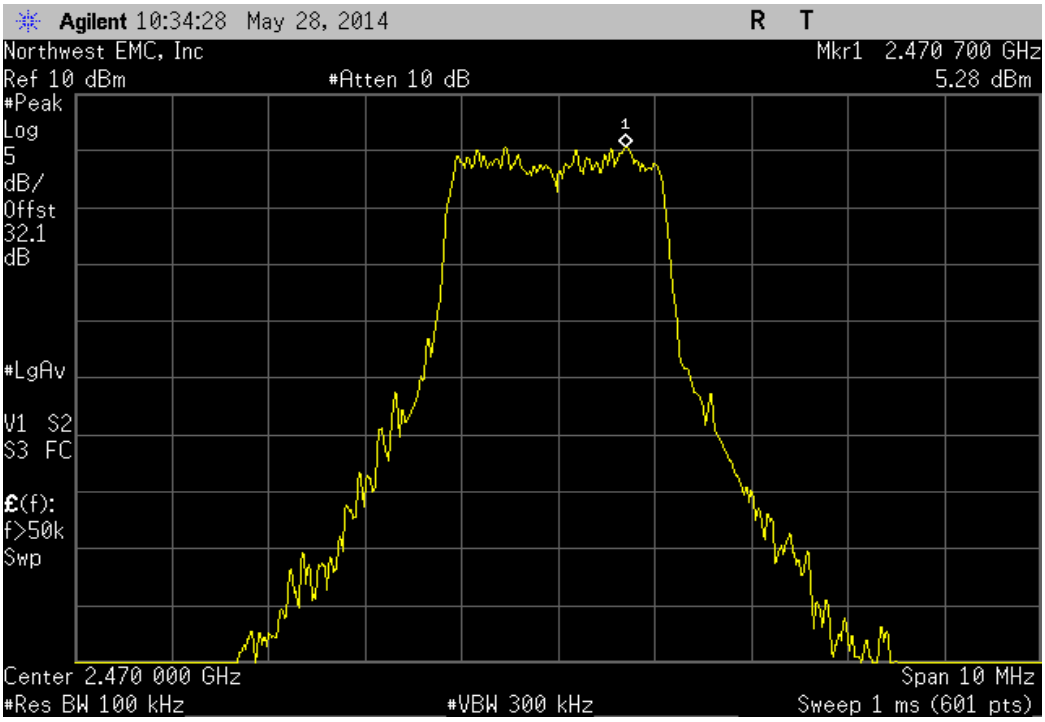


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.523	-15.2	-8.677	8	Pass

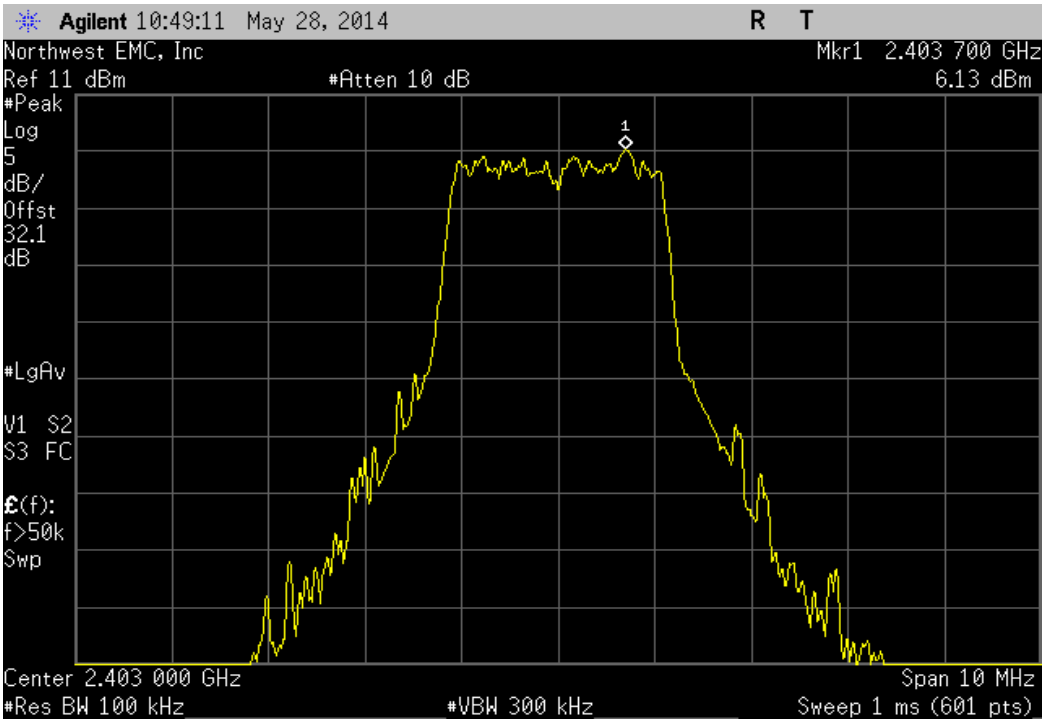


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.284	-15.2	-9.916	8	Pass

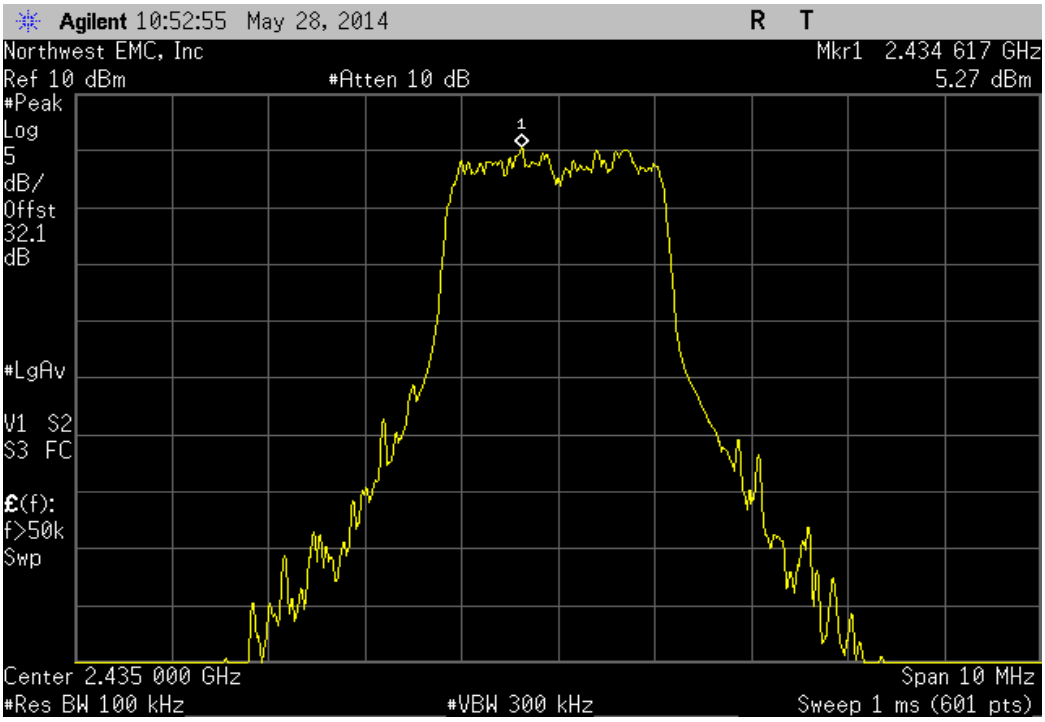


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.133	-15.2	-9.067	8	Pass

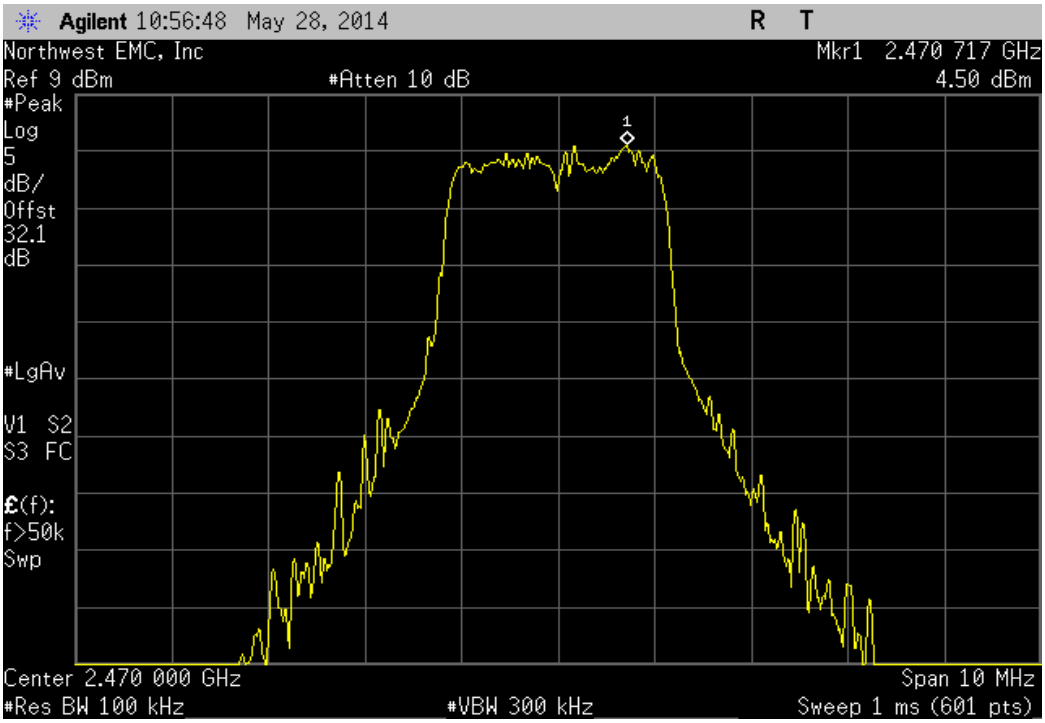


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.269	-15.2	-9.931	8	Pass

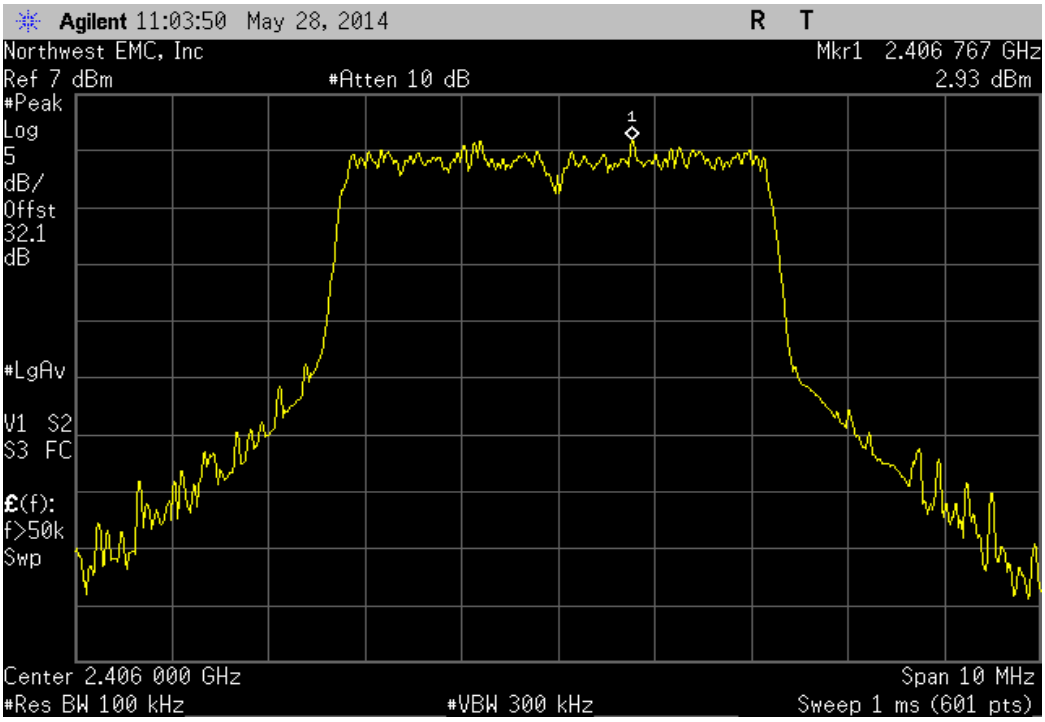


Chain A , 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		4.501	-15.2	-10.699	8	Pass

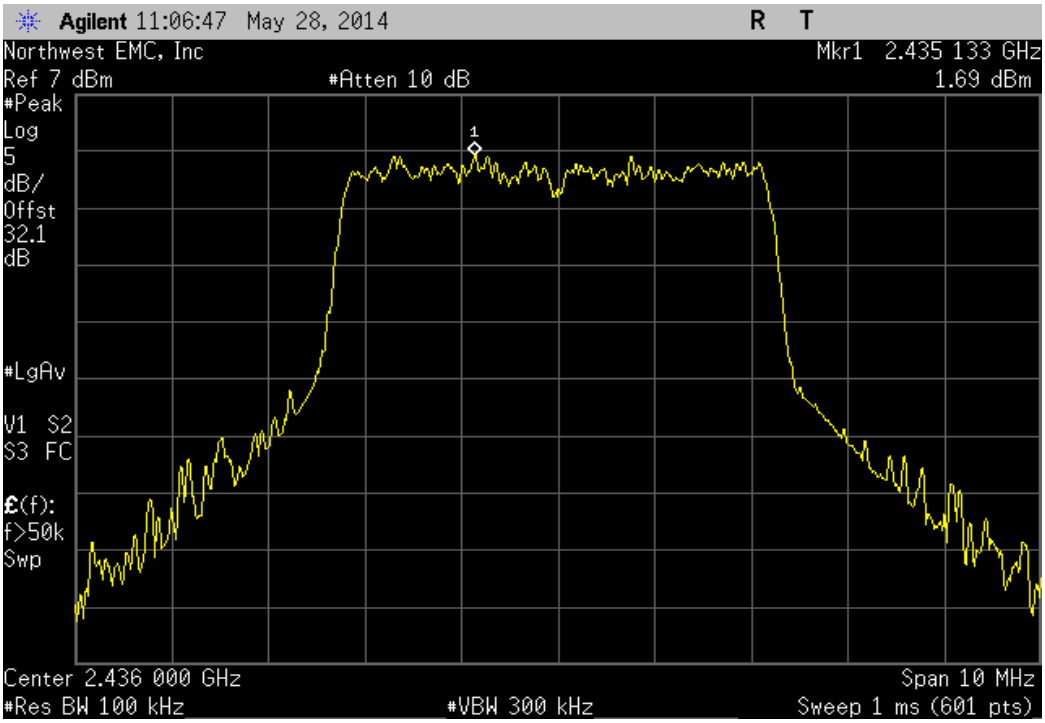


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.934	-15.2	-12.266	8	Pass

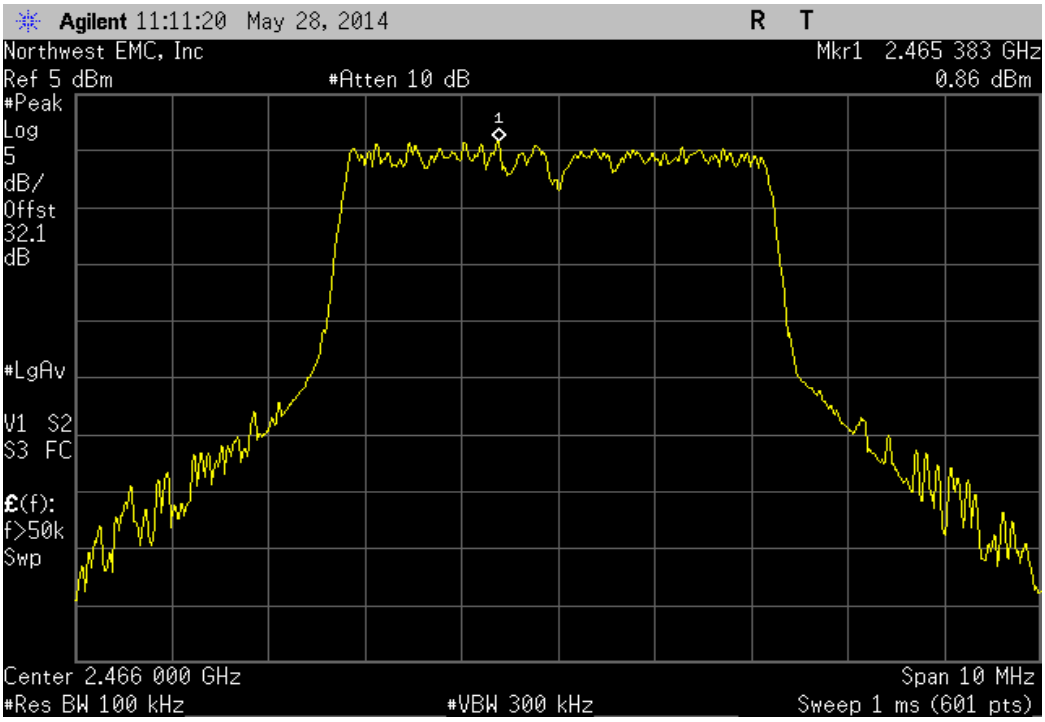


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		1.688	-15.2	-13.512	8	Pass

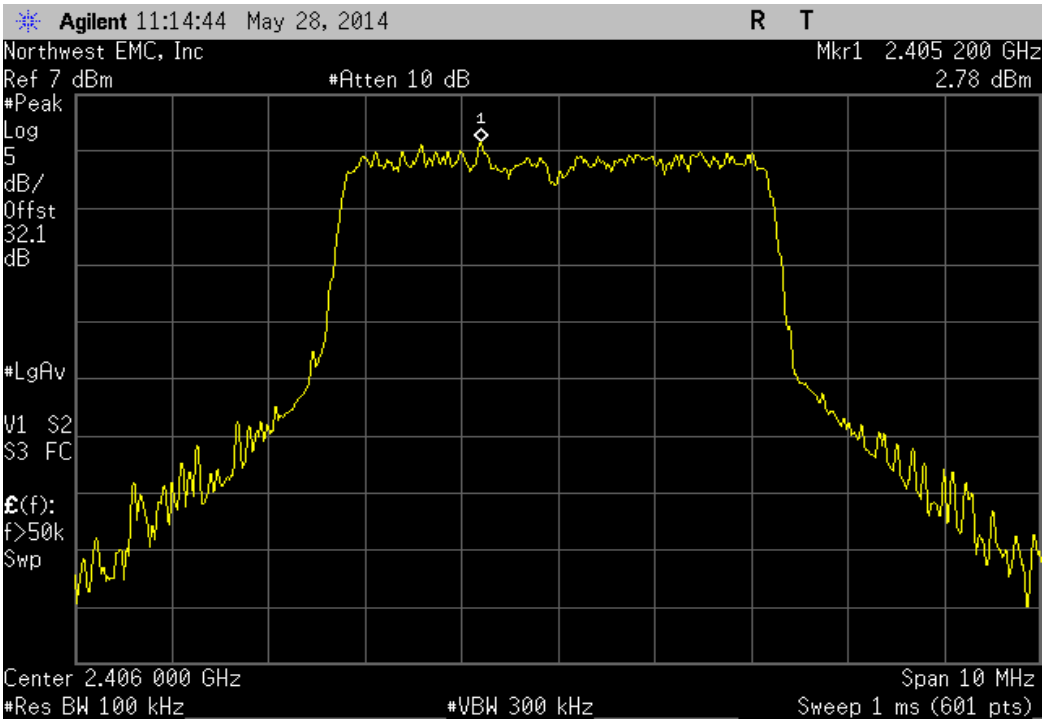


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		0.856	-15.2	-14.344	8	Pass

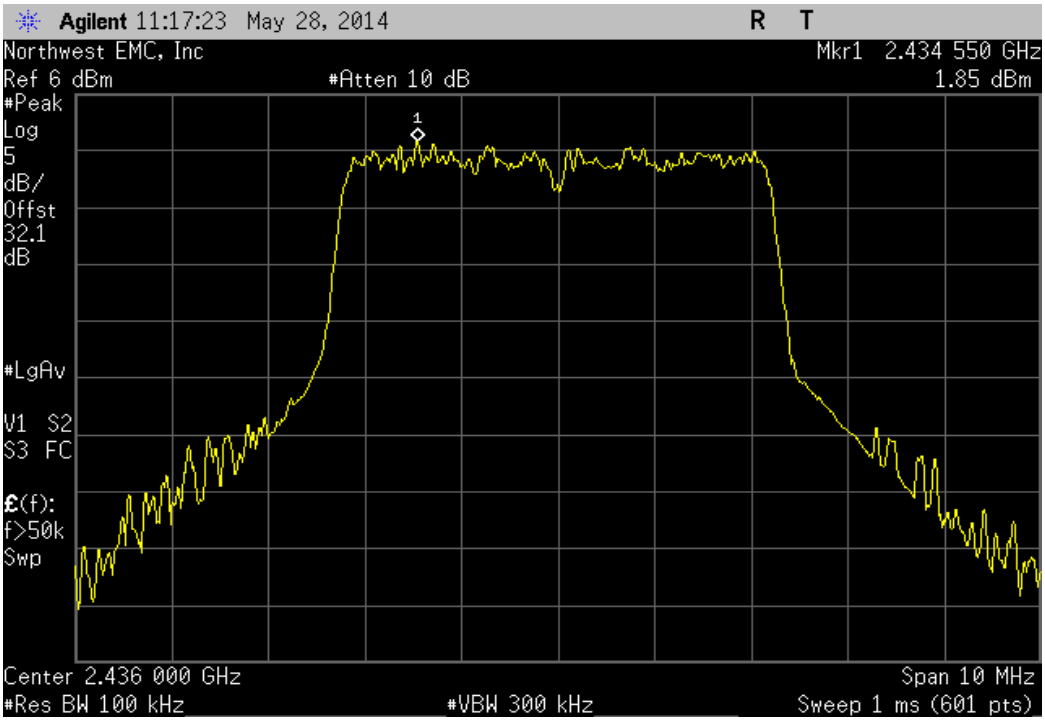


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.78	-15.2	-12.42	8	Pass

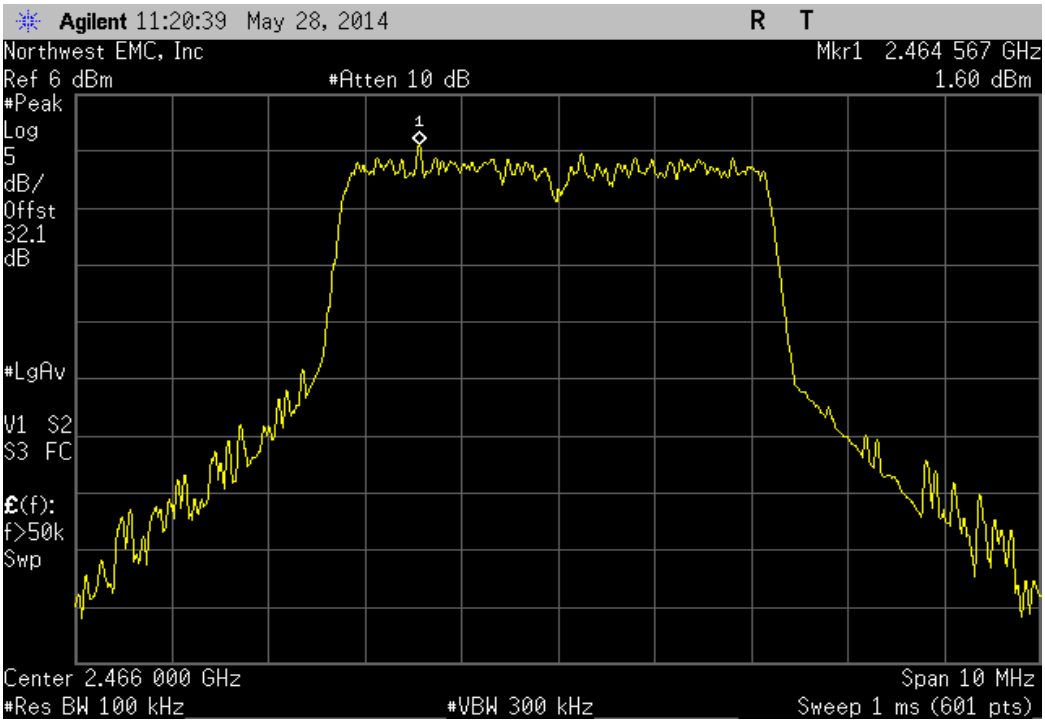


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		1.853	-15.2	-13.347	8	Pass

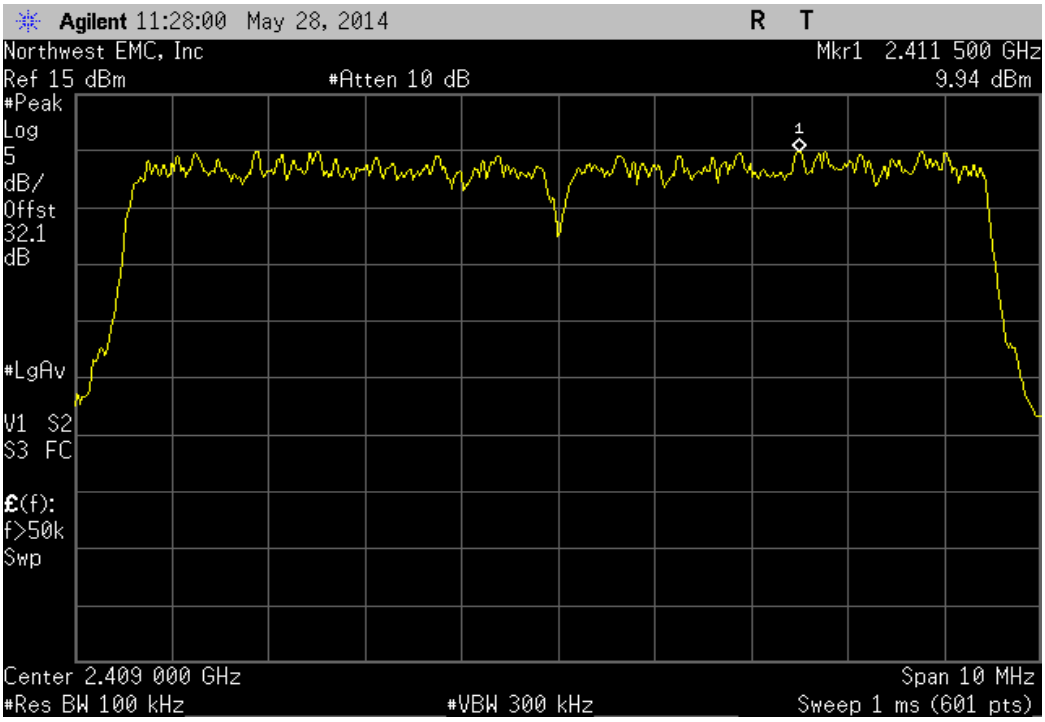


Chain A , 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		1.596	-15.2	-13.604	8	Pass

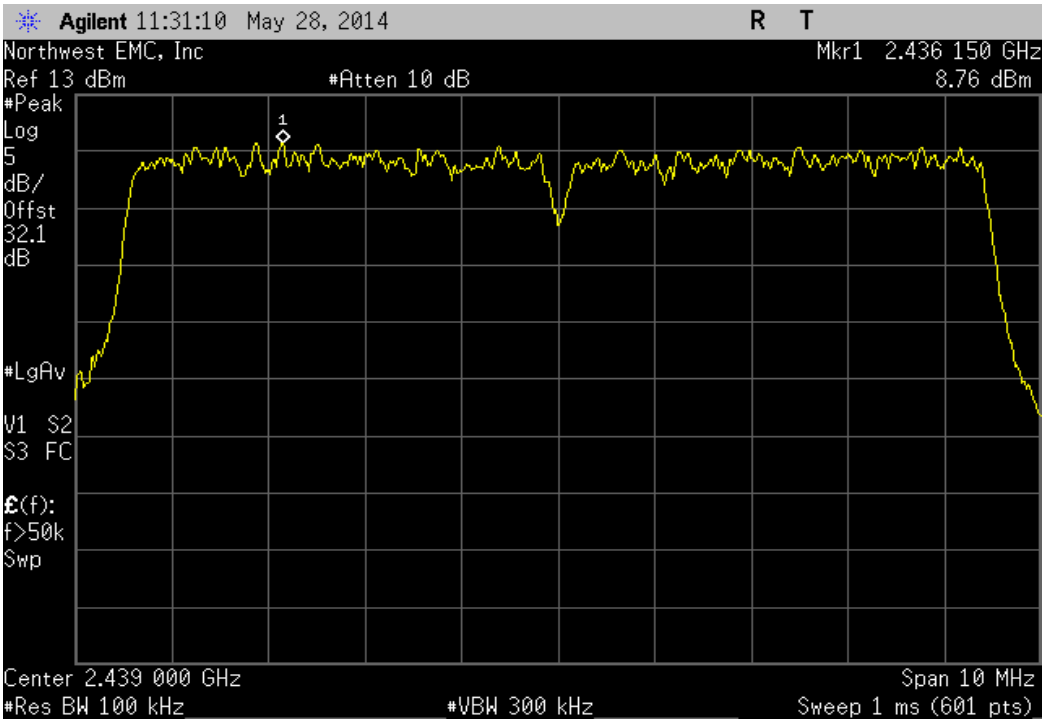


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.937	-15.2	-5.263	8	Pass

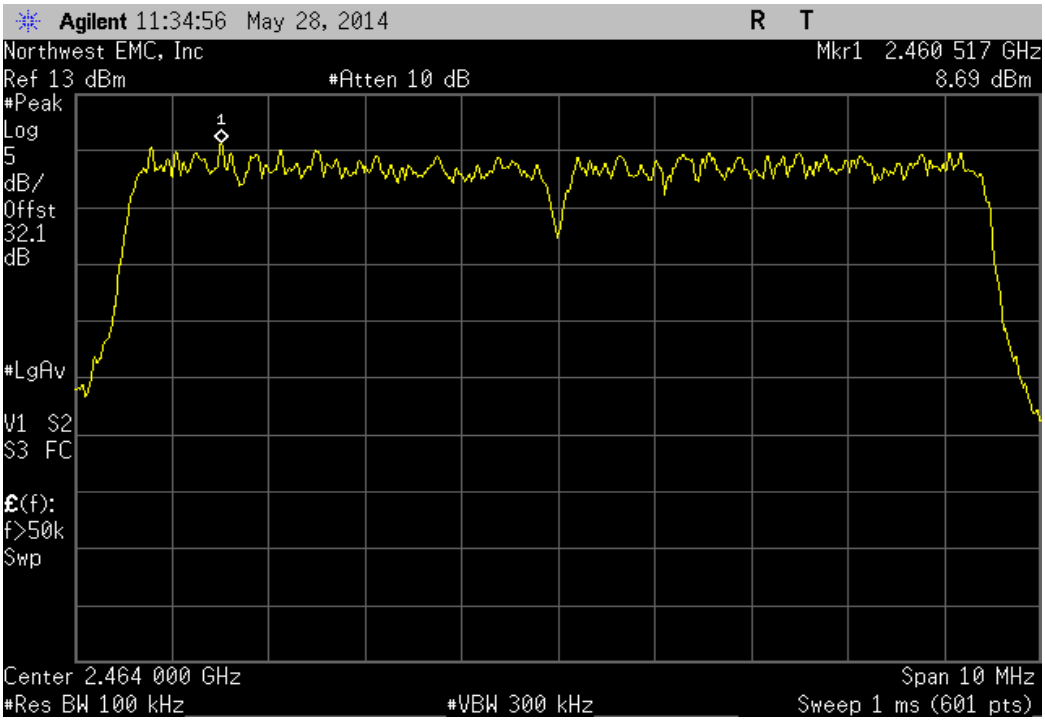


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.758	-15.2	-6.442	8	Pass

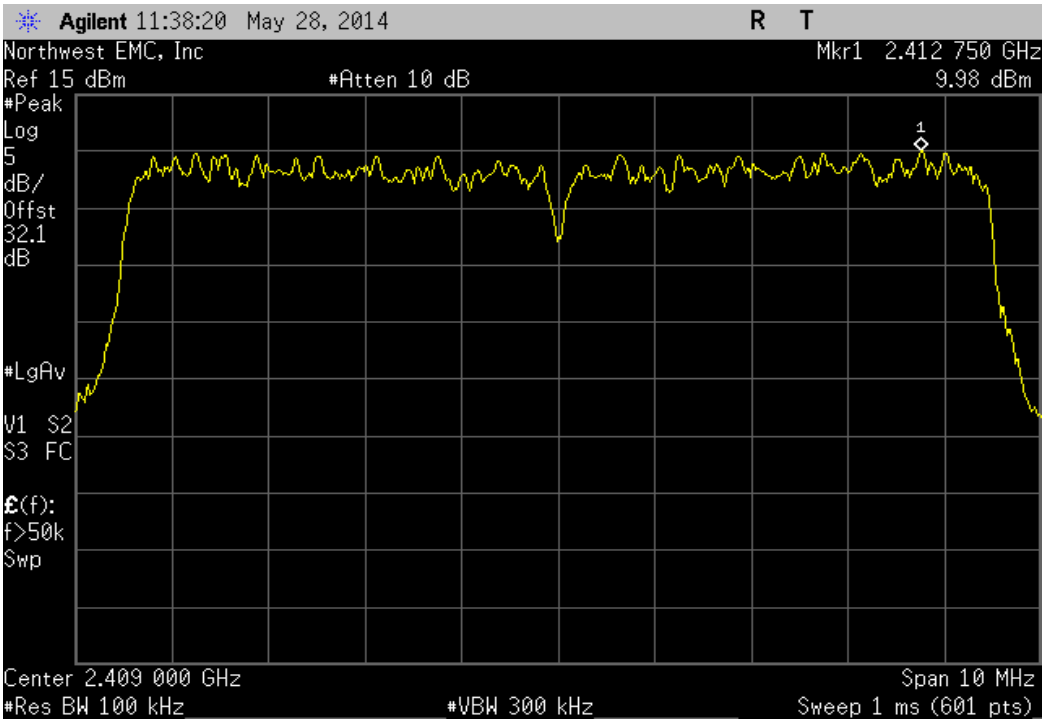


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.691	-15.2	-6.509	8	Pass

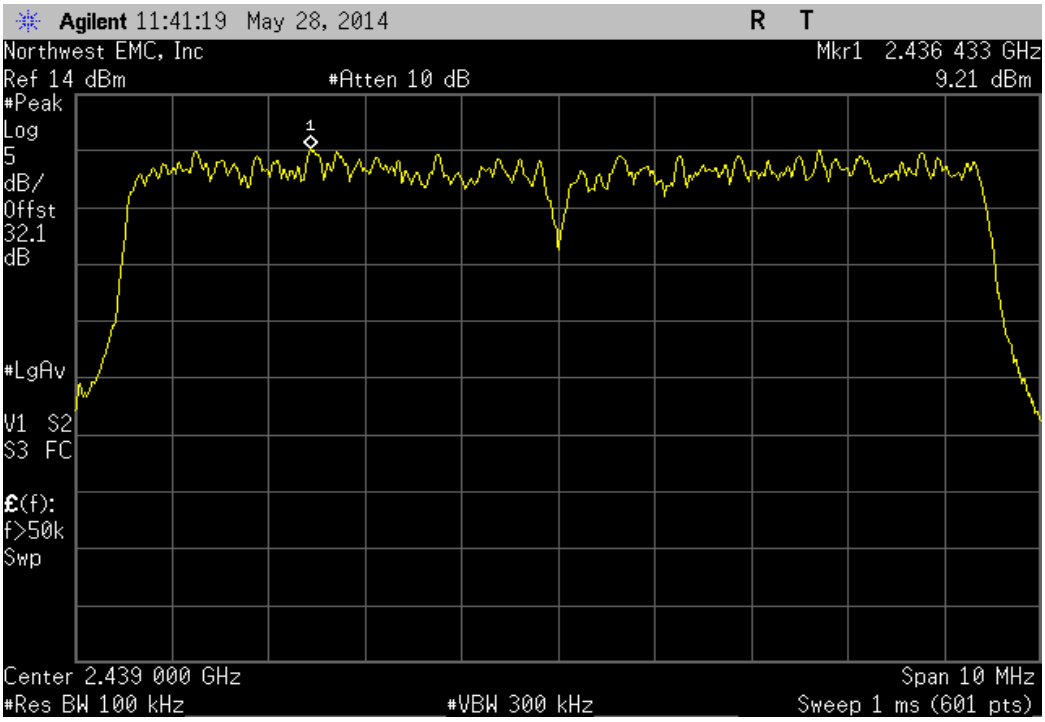


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.982	-15.2	-5.218	8	Pass

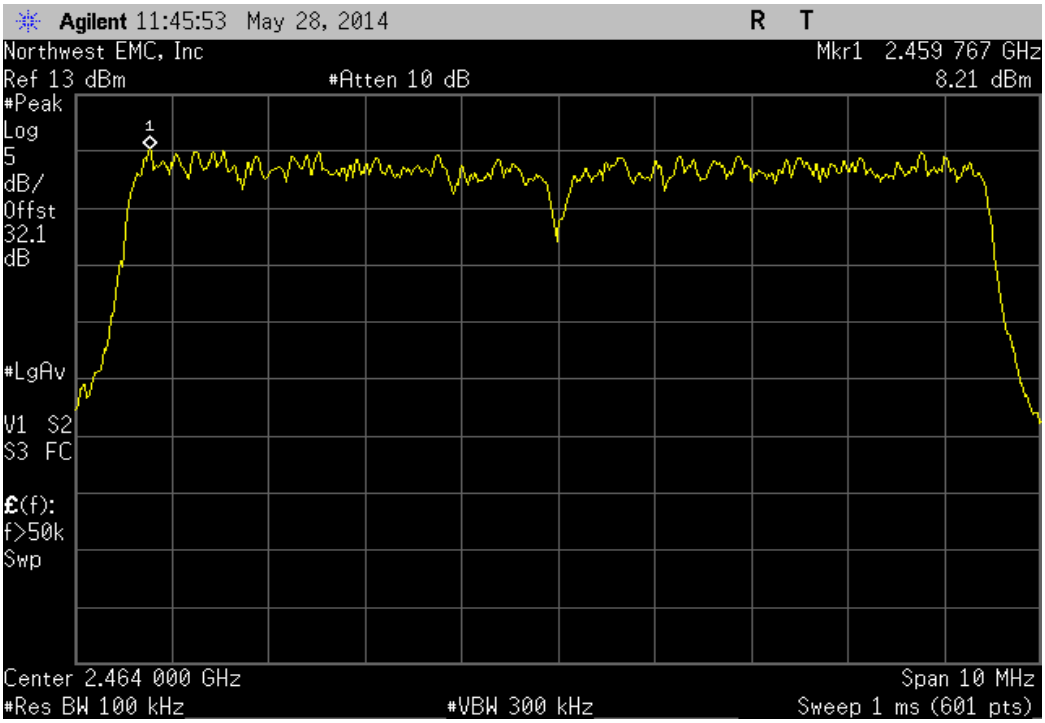


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.214	-15.2	-5.986	8	Pass

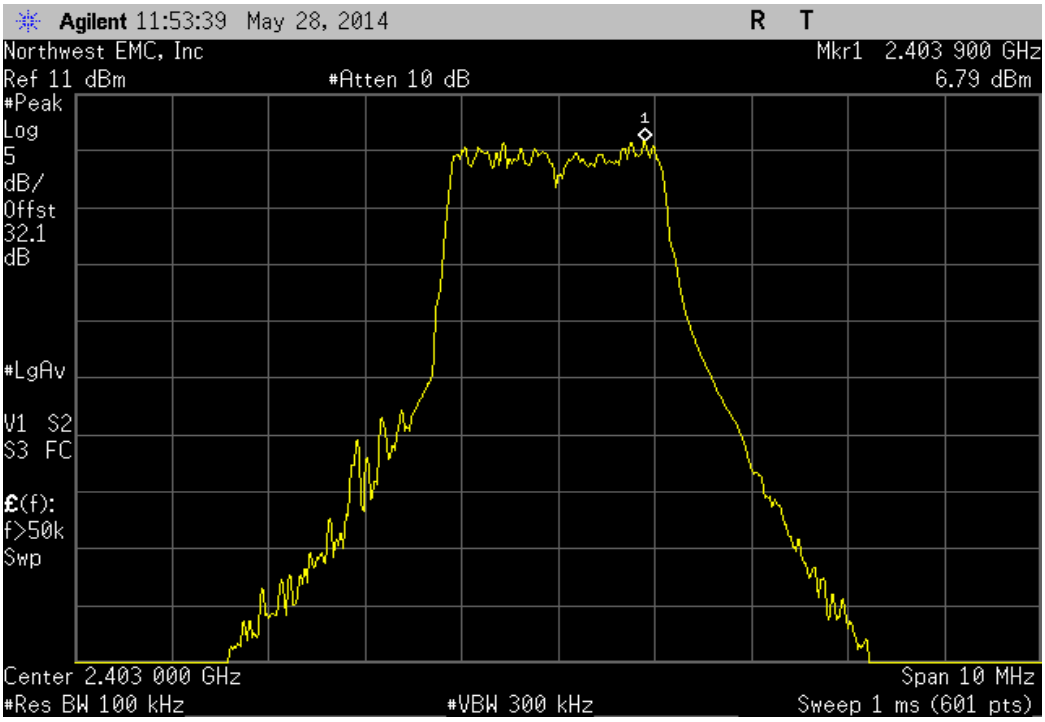


Chain A , 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.206	-15.2	-6.994	8	Pass

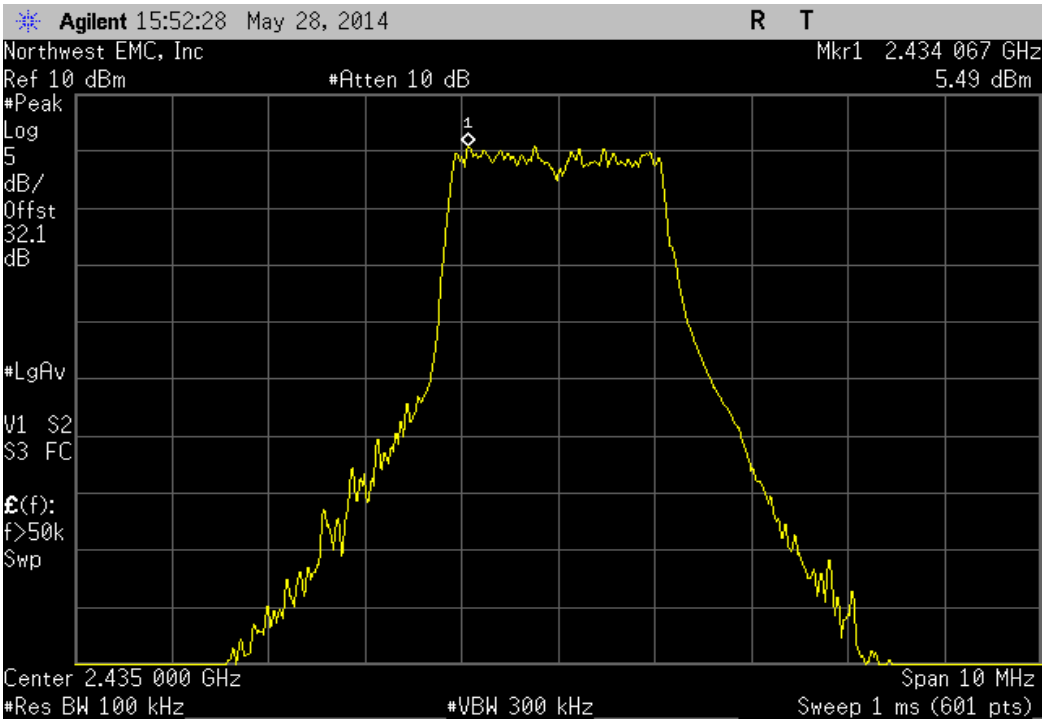


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.791	-15.2	-8.409	8	Pass

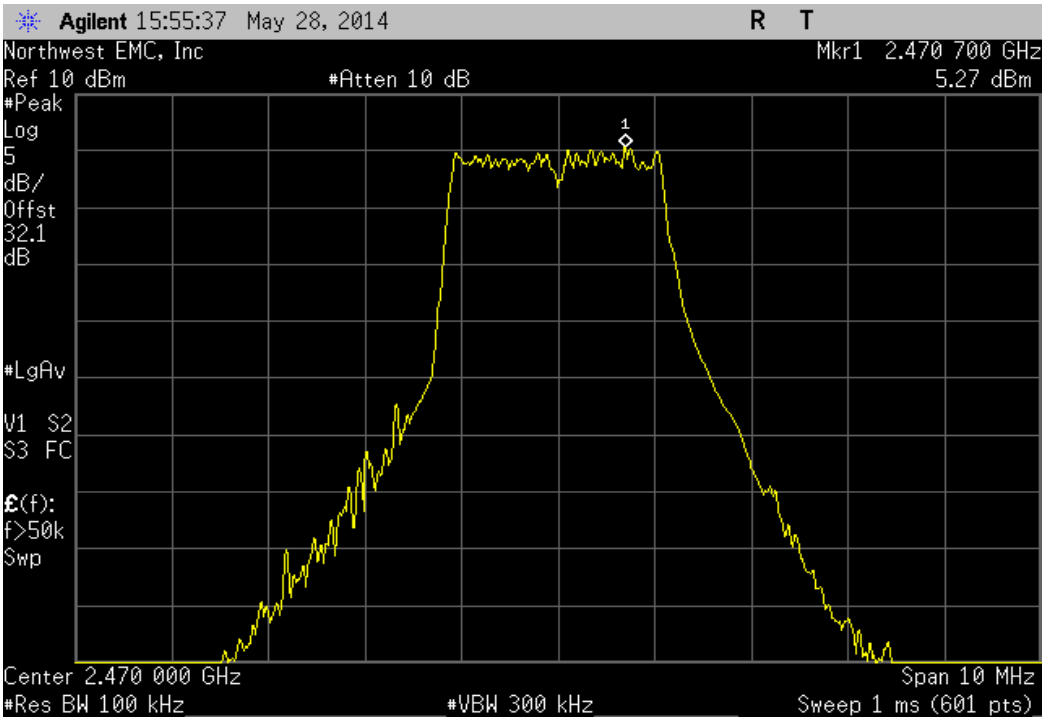


Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.493	-15.2	-9.707	8	Pass

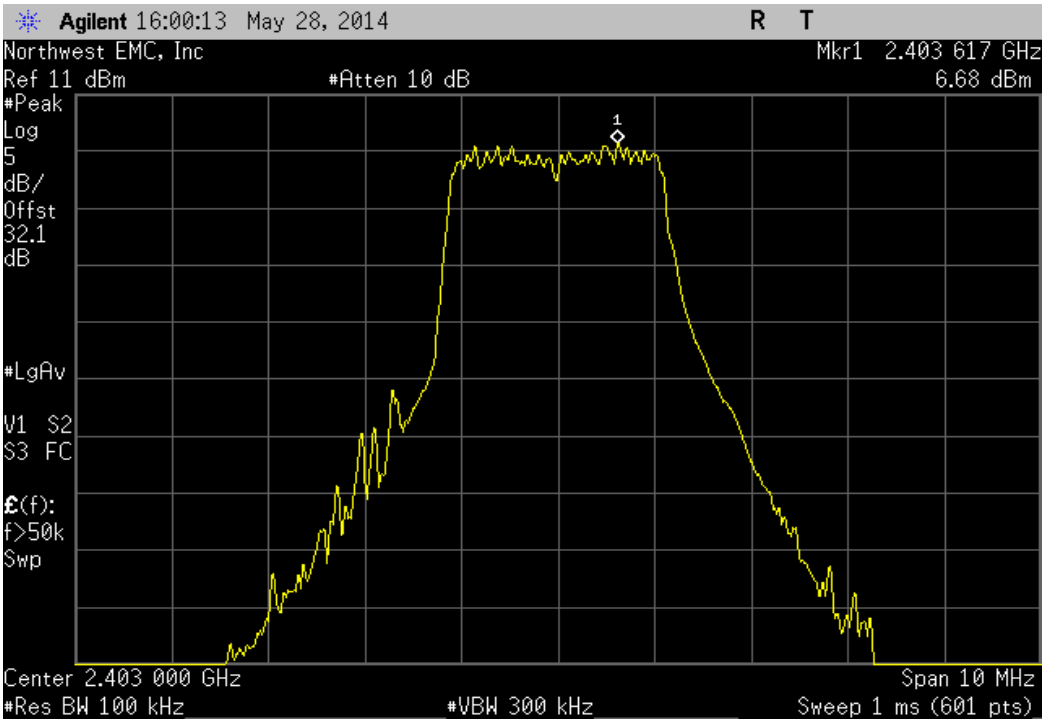


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.271	-15.2	-9.929	8	Pass

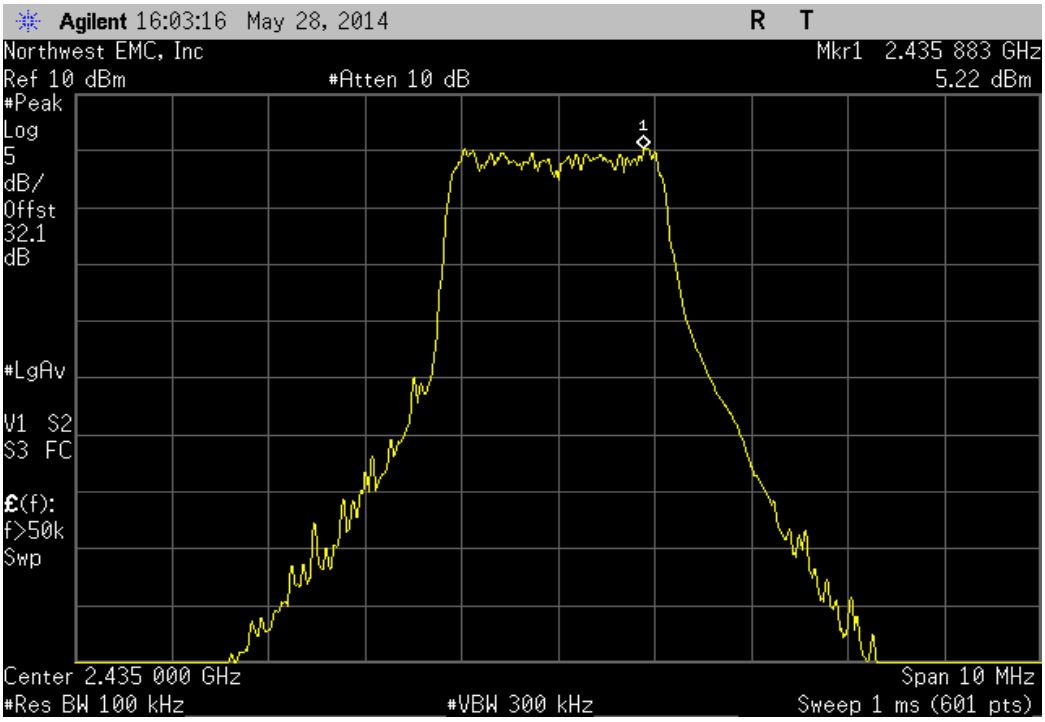


Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.684	-15.2	-8.516	8	Pass

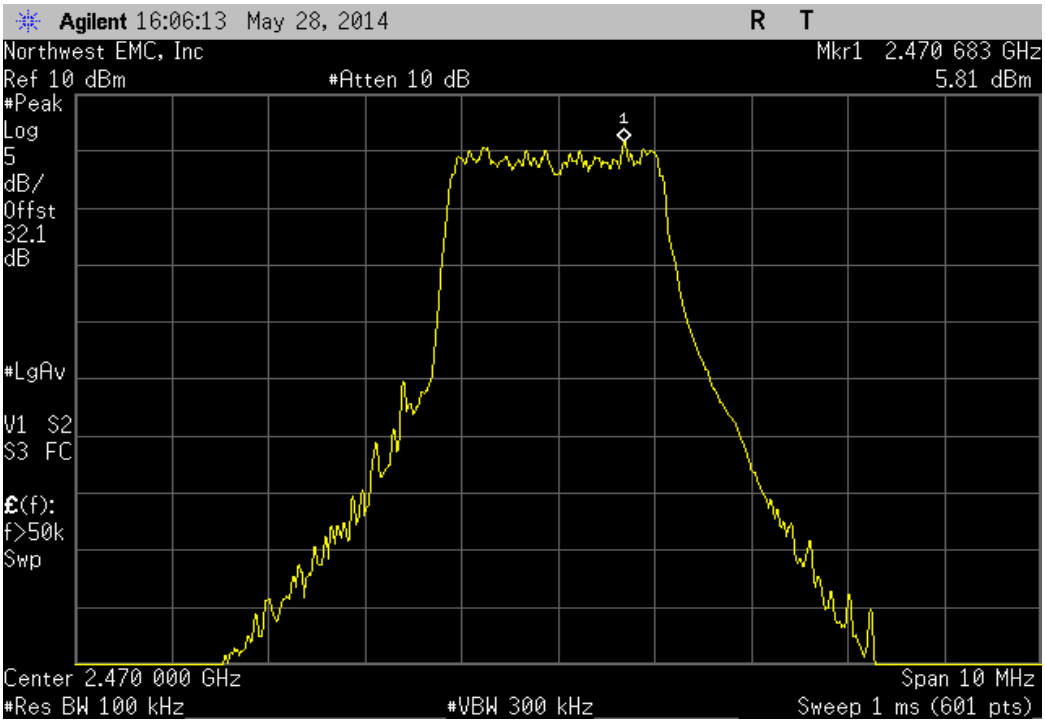


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.215	-15.2	-9.985	8	Pass

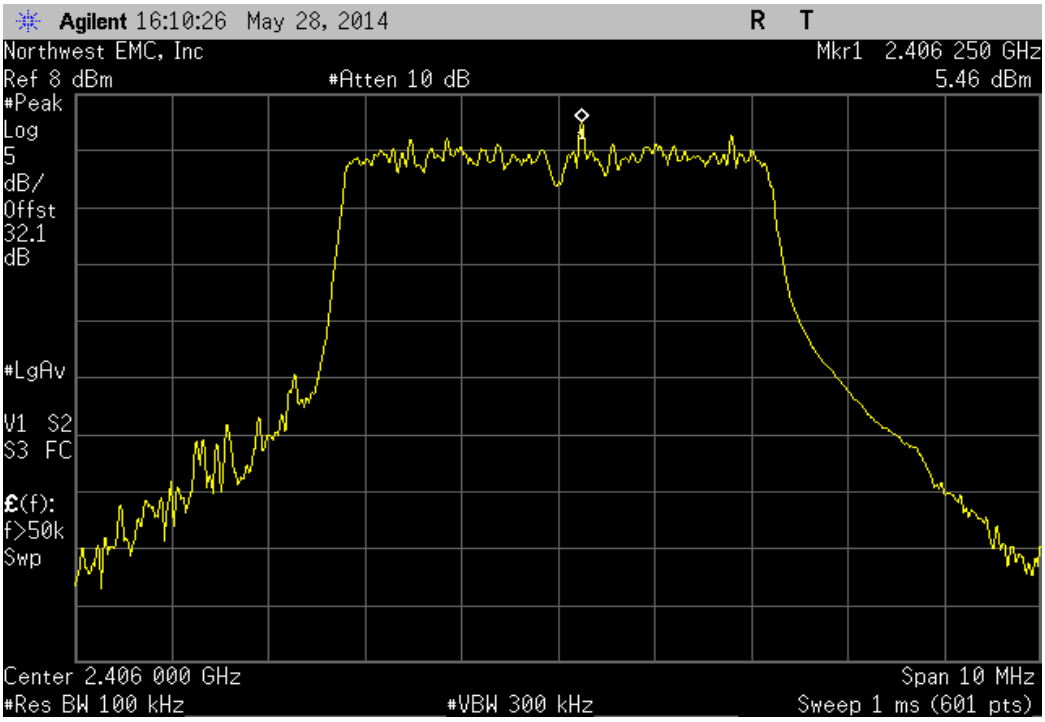


Chain B, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.807	-15.2	-9.393	8	Pass

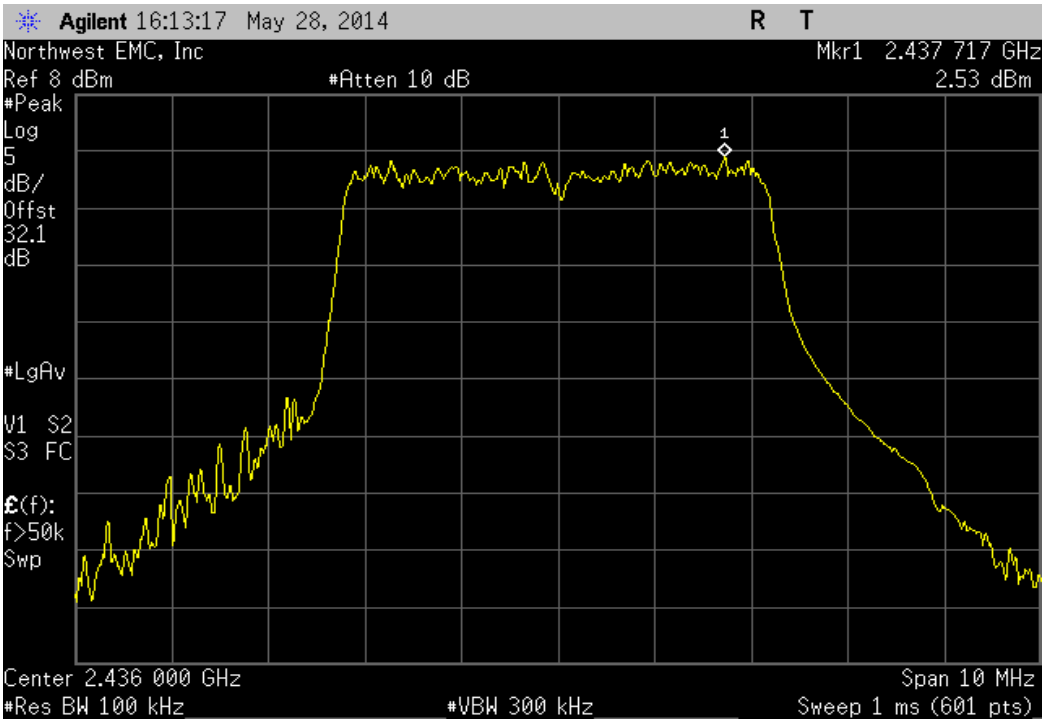


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.459	-15.2	-9.741	8	Pass

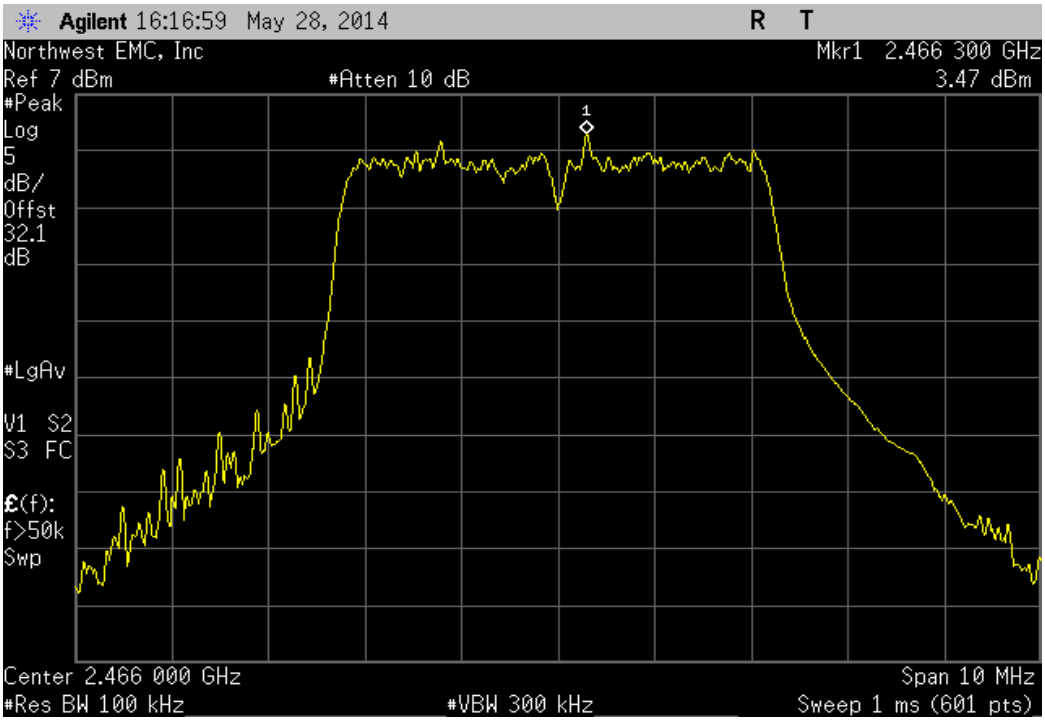


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.533	-15.2	-12.667	8	Pass

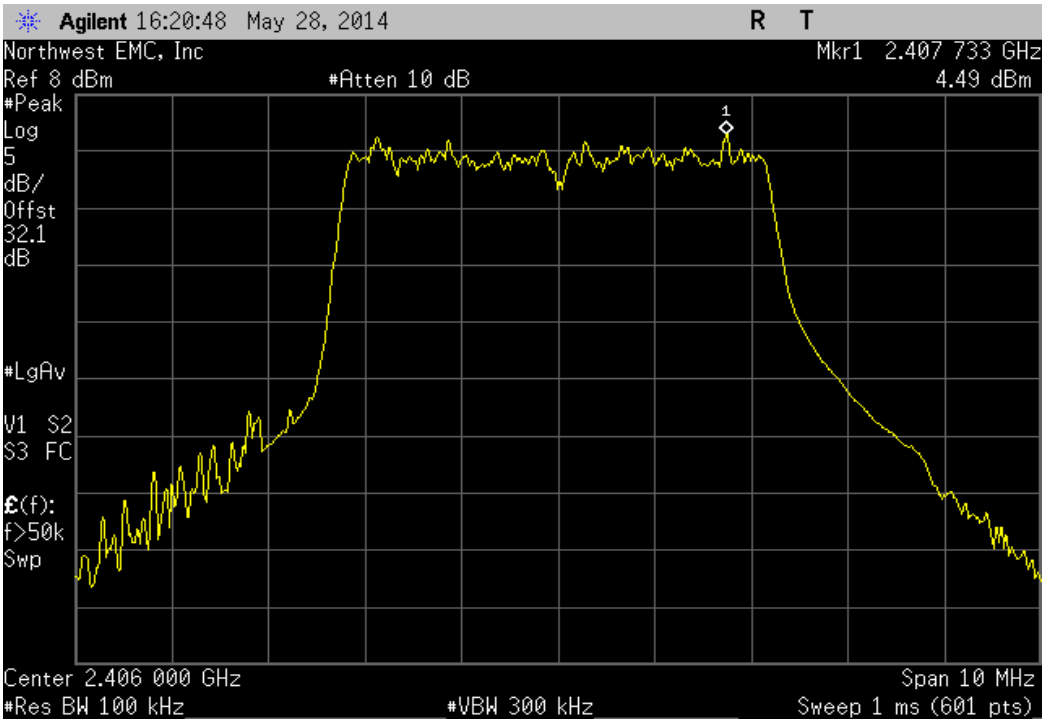


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.469	-15.2	-11.731	8	Pass

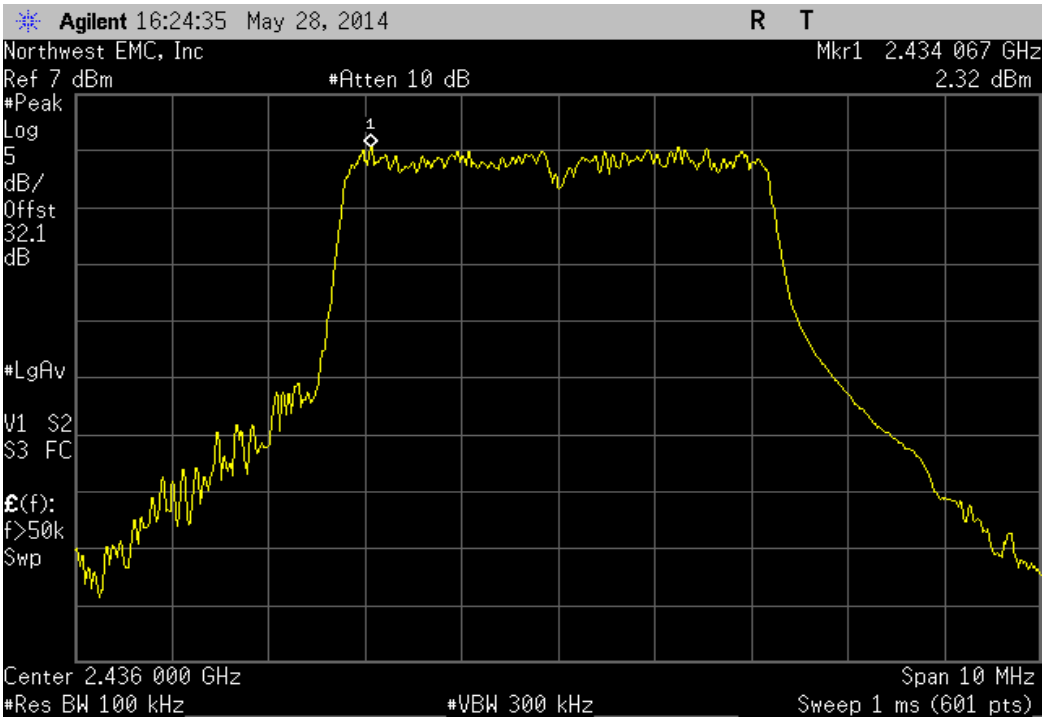


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		4.486	-15.2	-10.714	8	Pass

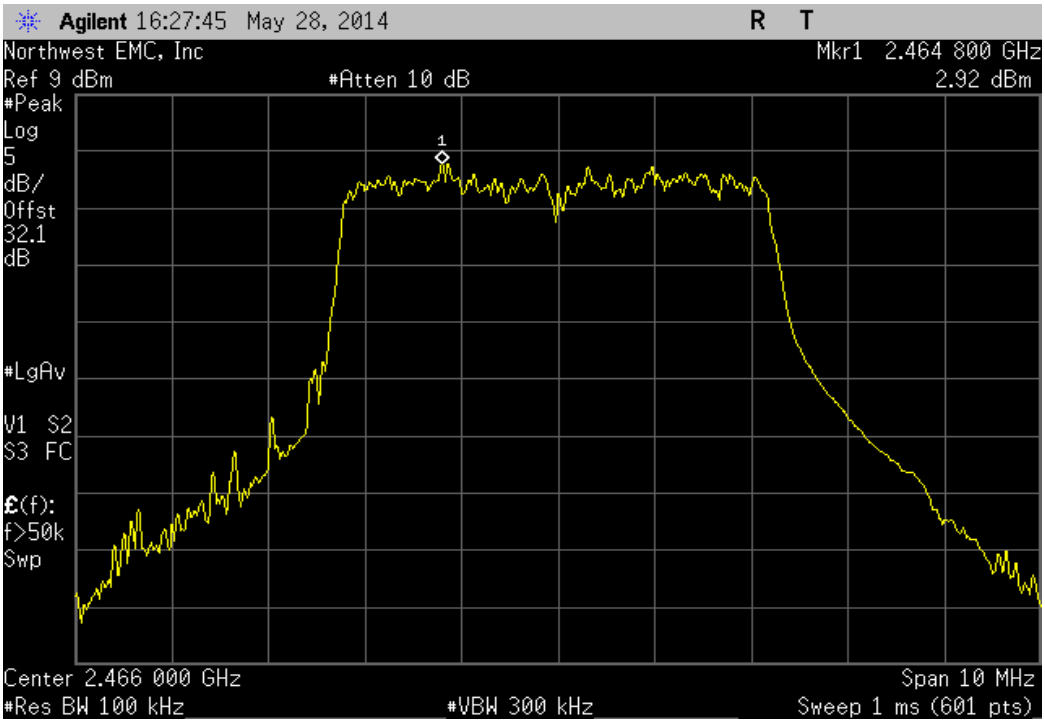


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.319	-15.2	-12.881	8	Pass

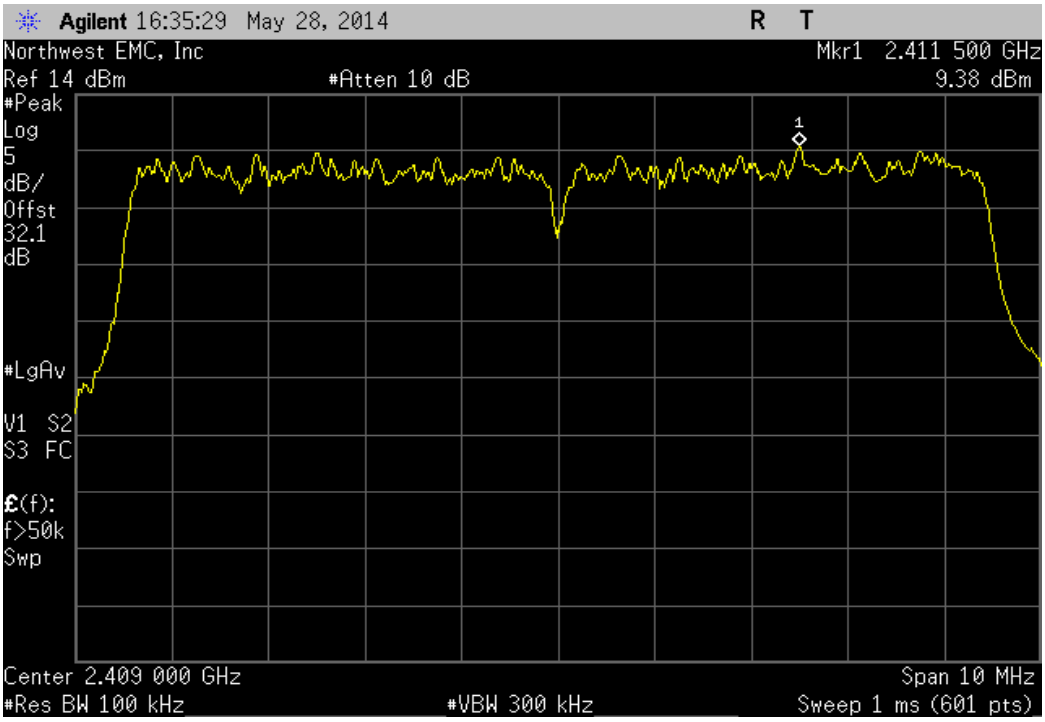


Chain B, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.916	-15.2	-12.284	8	Pass

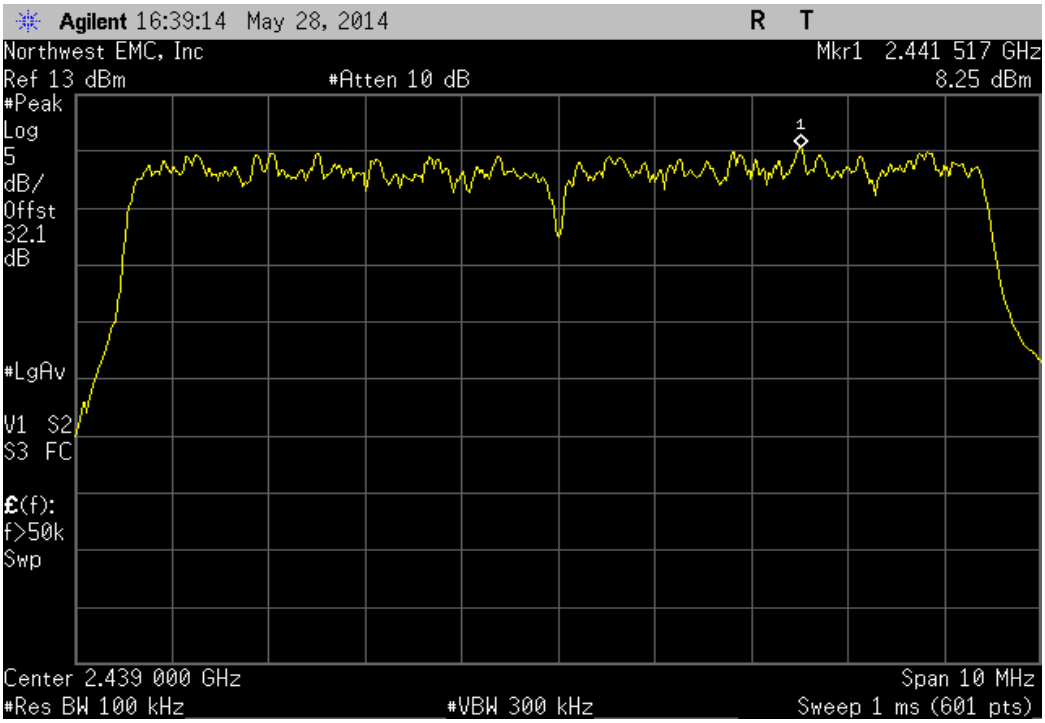


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.381	-15.2	-5.819	8	Pass

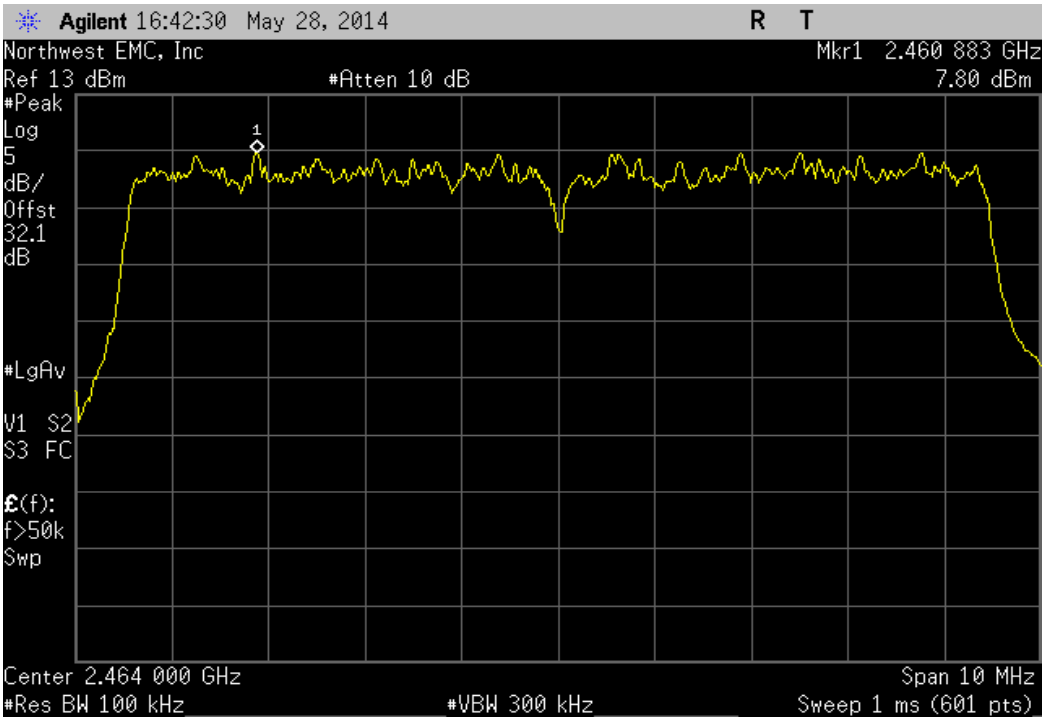


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.248	-15.2	-6.952	8	Pass

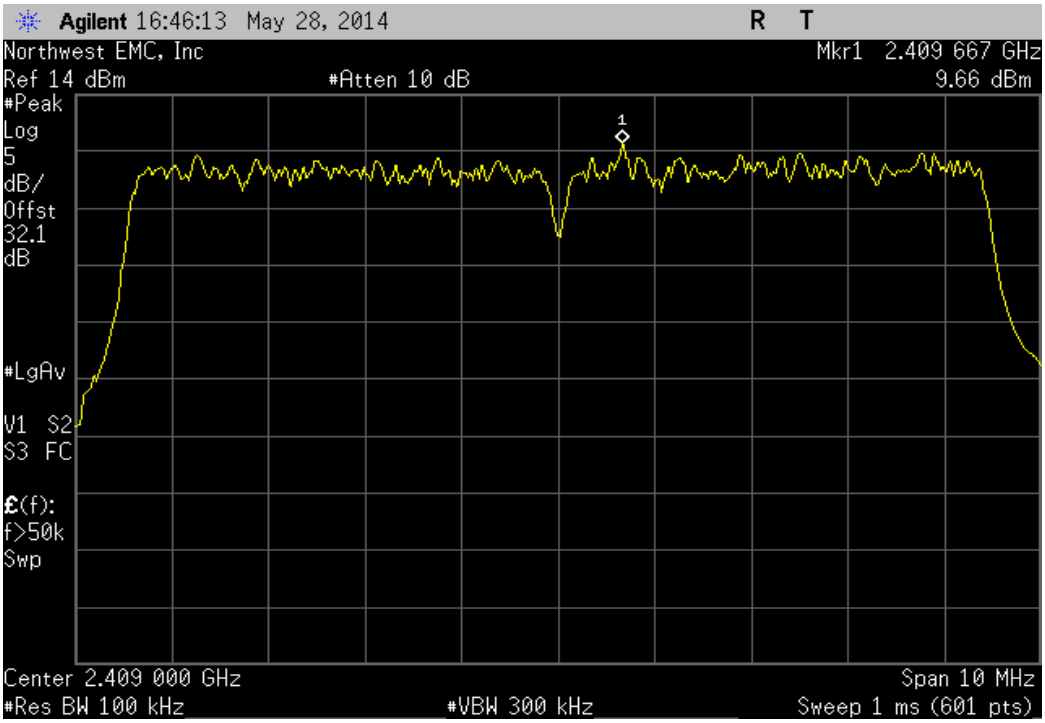


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.8	-15.2	-7.4	8	Pass

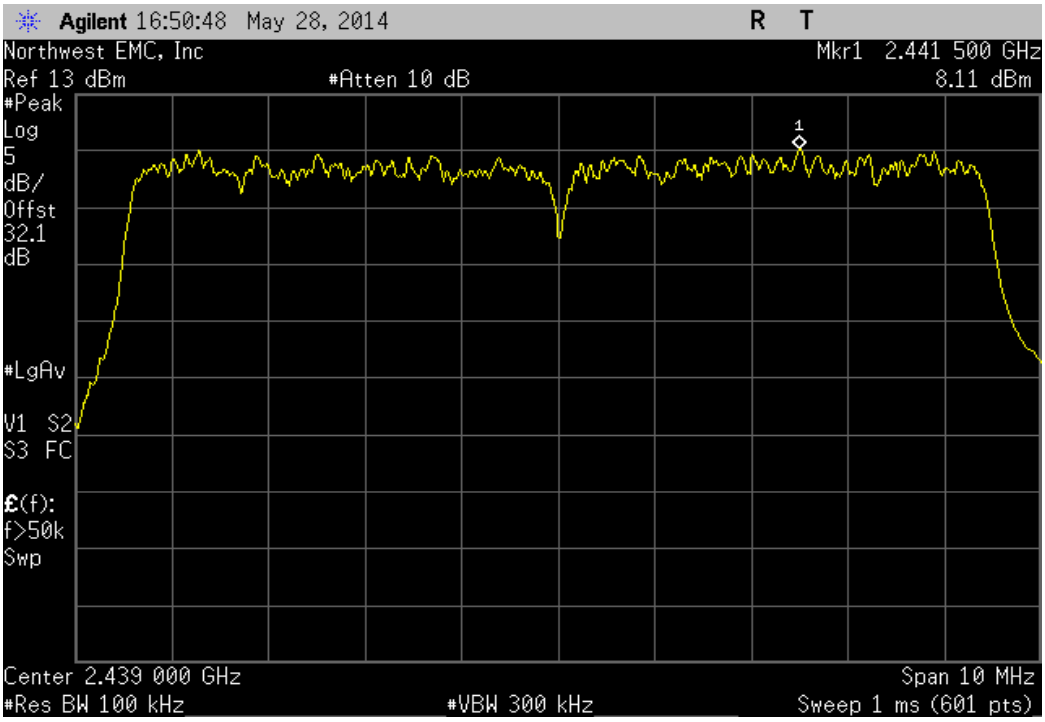


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		9.661	-15.2	-5.539	8	Pass

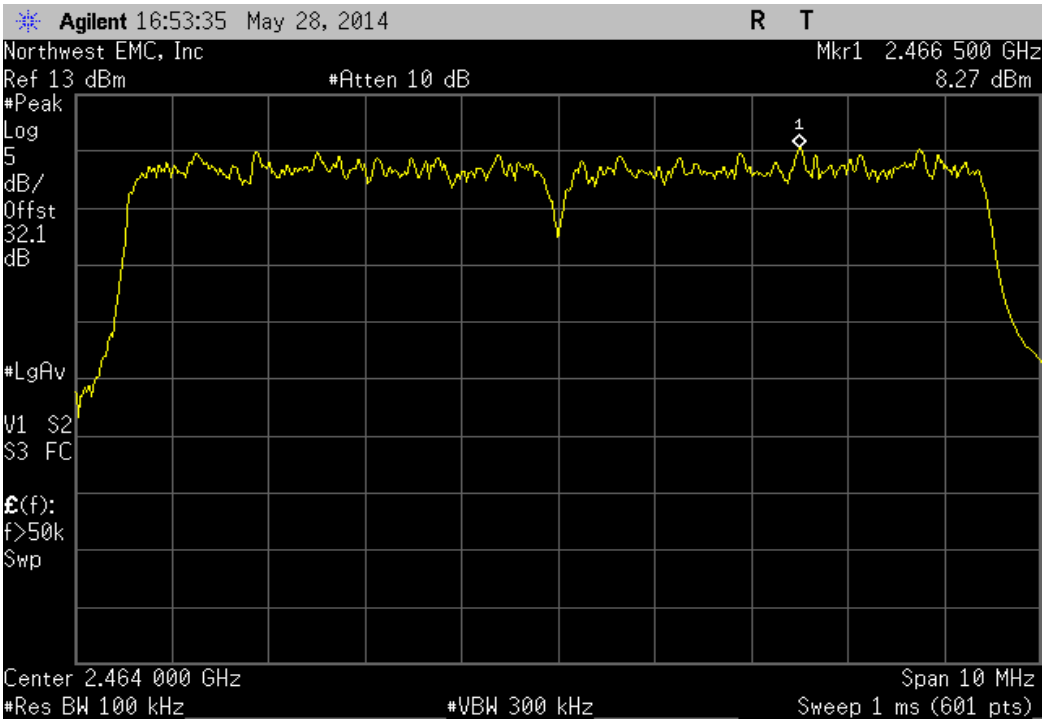


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.109	-15.2	-7.091	8	Pass

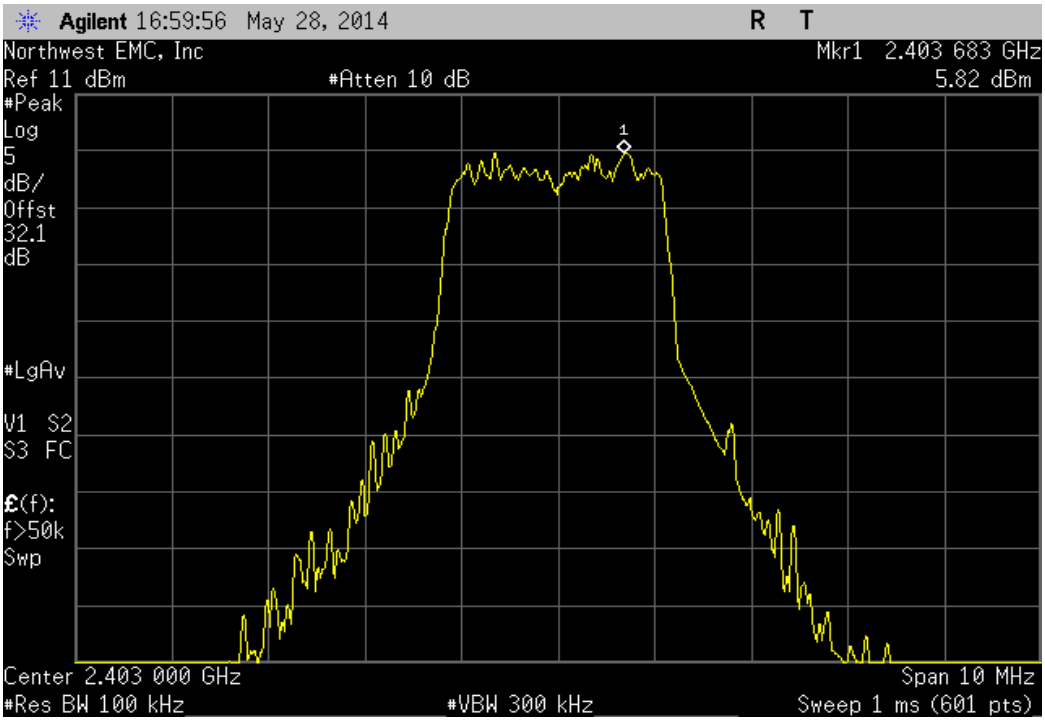


Chain B, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.272	-15.2	-6.928	8	Pass

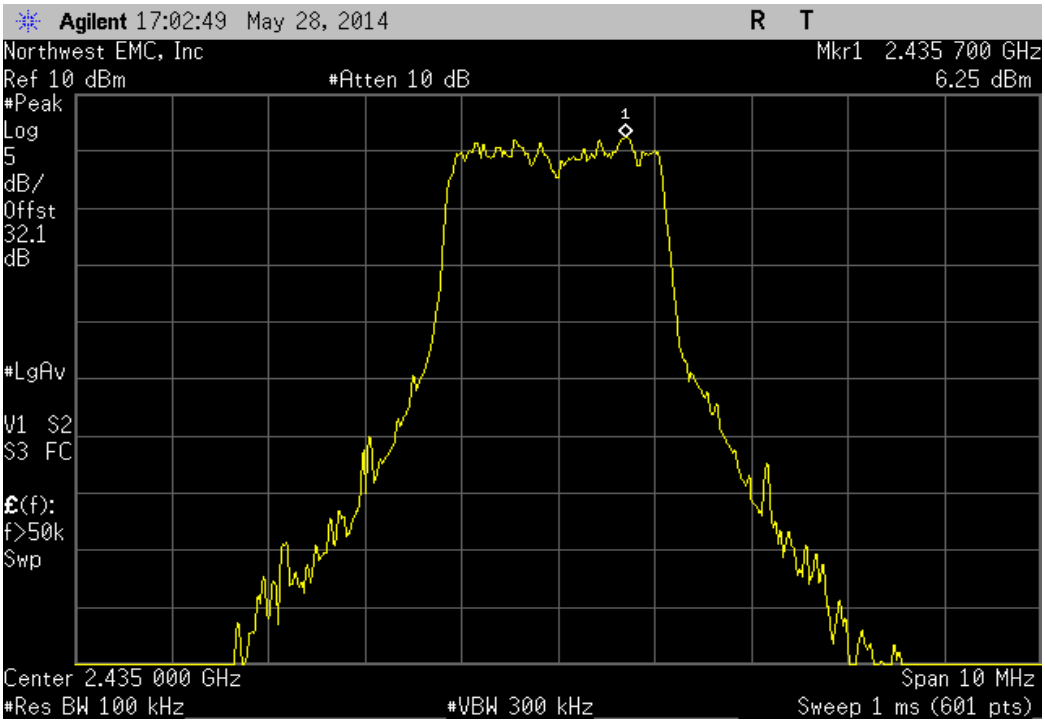


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.825	-15.2	-9.375	8	Pass

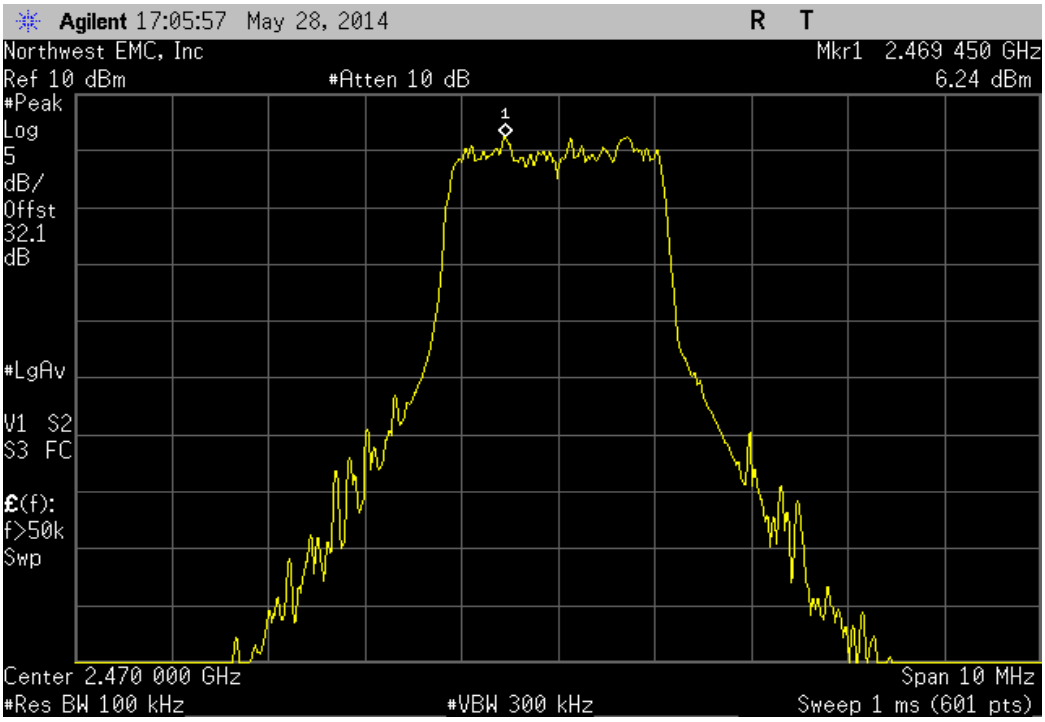


Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.251	-15.2	-8.949	8	Pass

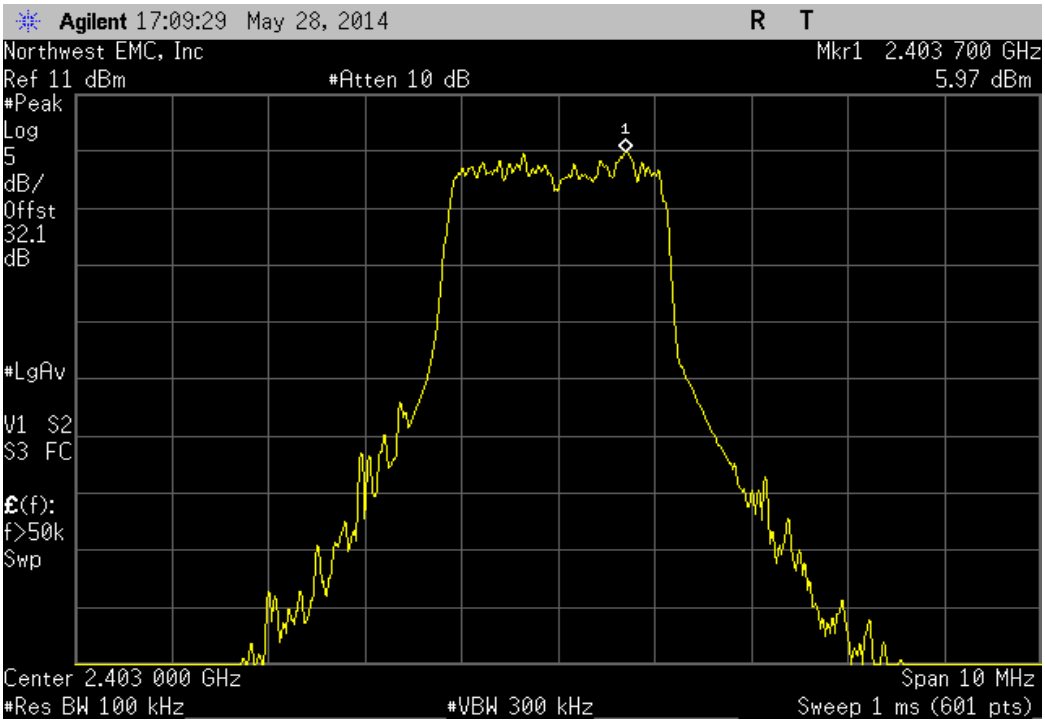


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.241	-15.2	-8.959	8	Pass

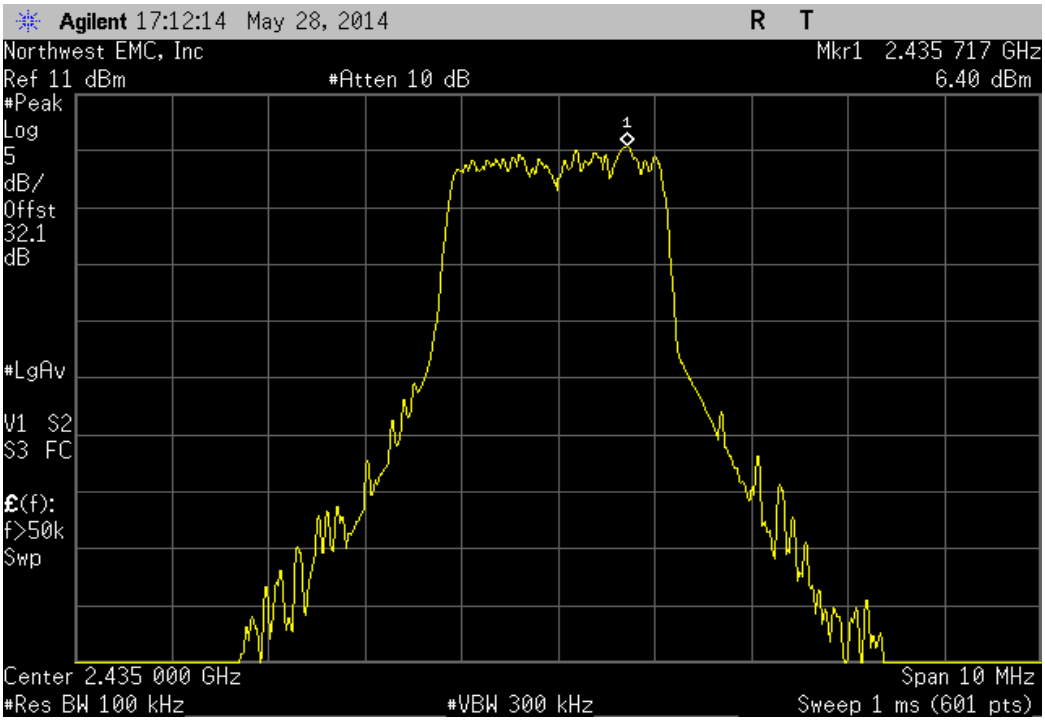


Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2403 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		5.966	-15.2	-9.234	8	Pass

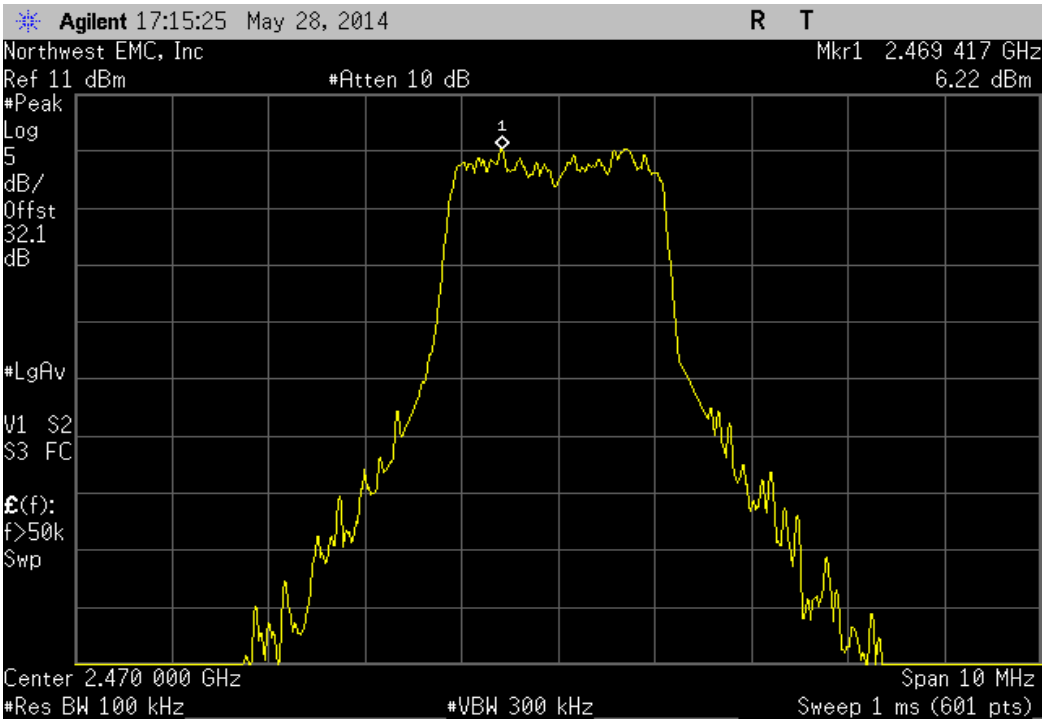


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2435 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.399	-15.2	-8.801	8	Pass

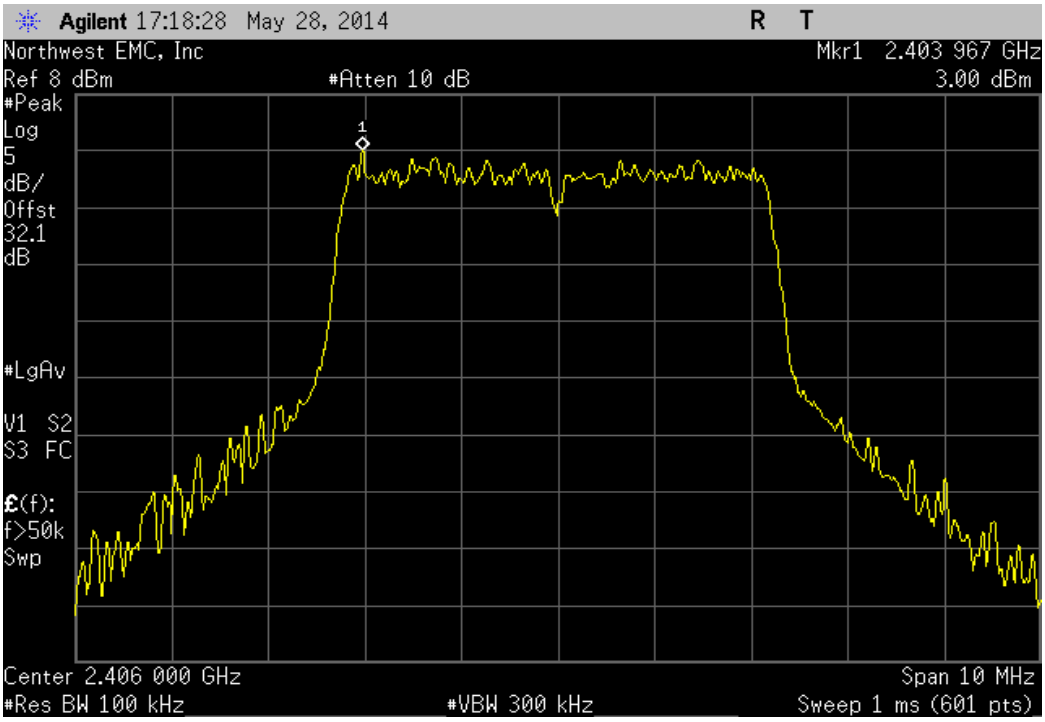


Chain C, 2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2470 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		6.219	-15.2	-8.981	8	Pass

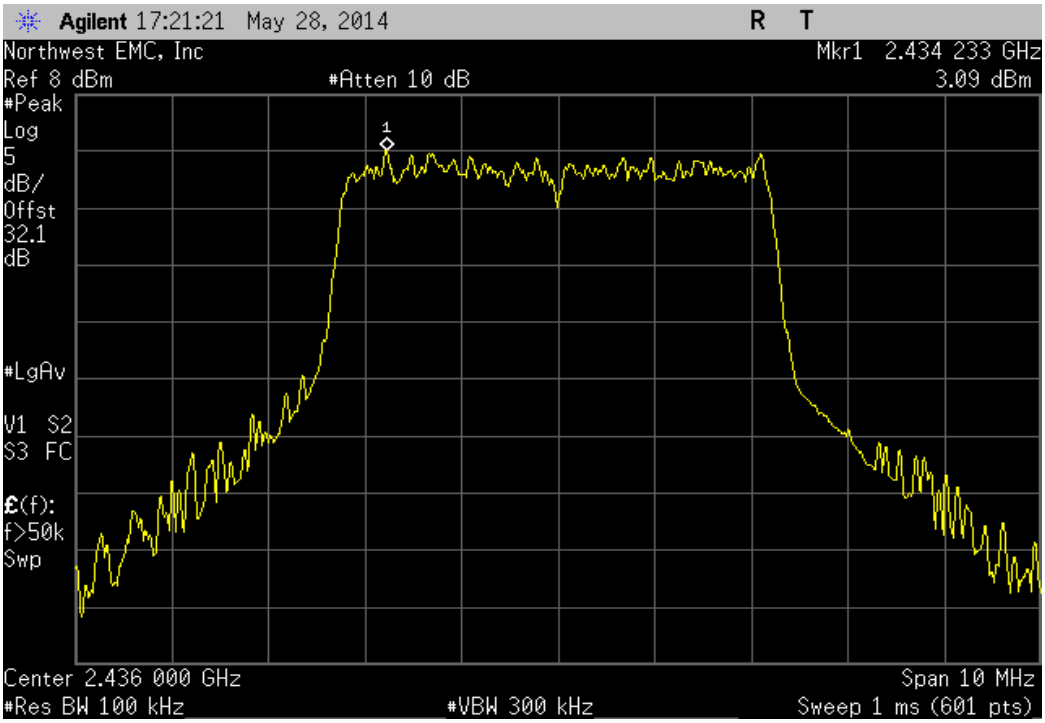


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.999	-15.2	-12.201	8	Pass

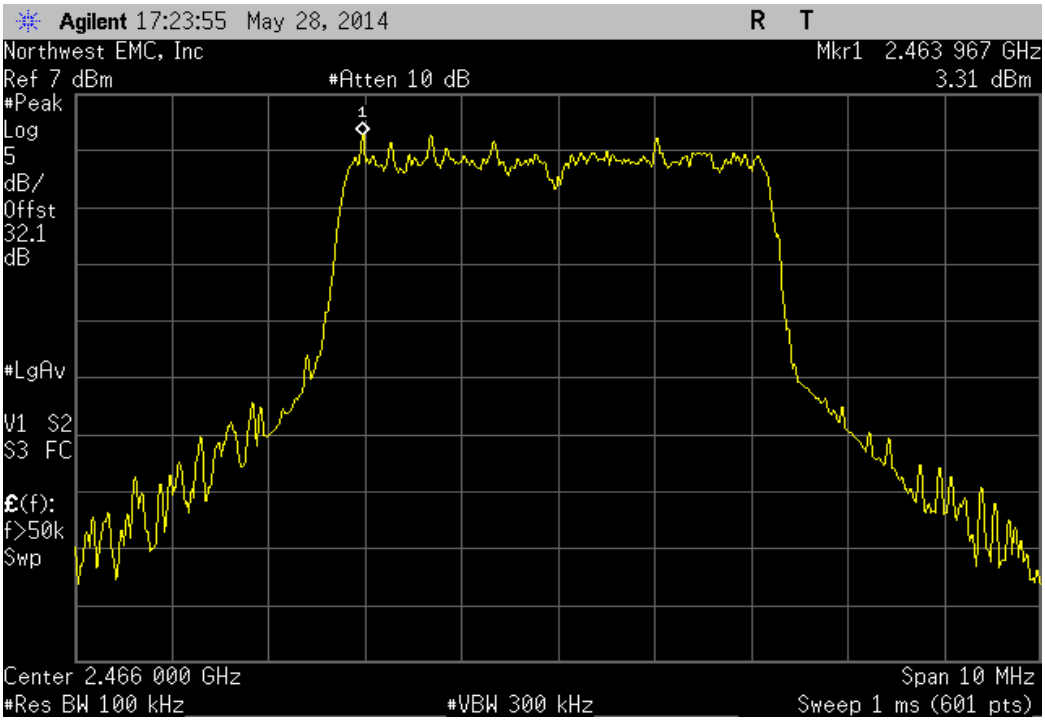


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.089	-15.2	-12.111	8	Pass

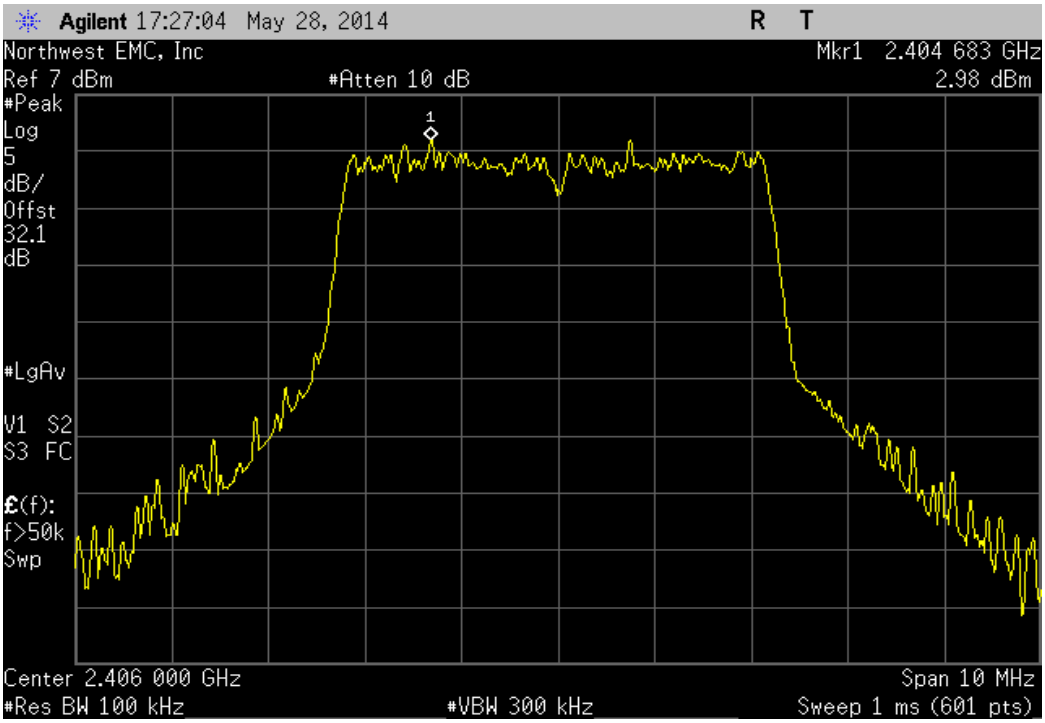


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.305	-15.2	-11.895	8	Pass

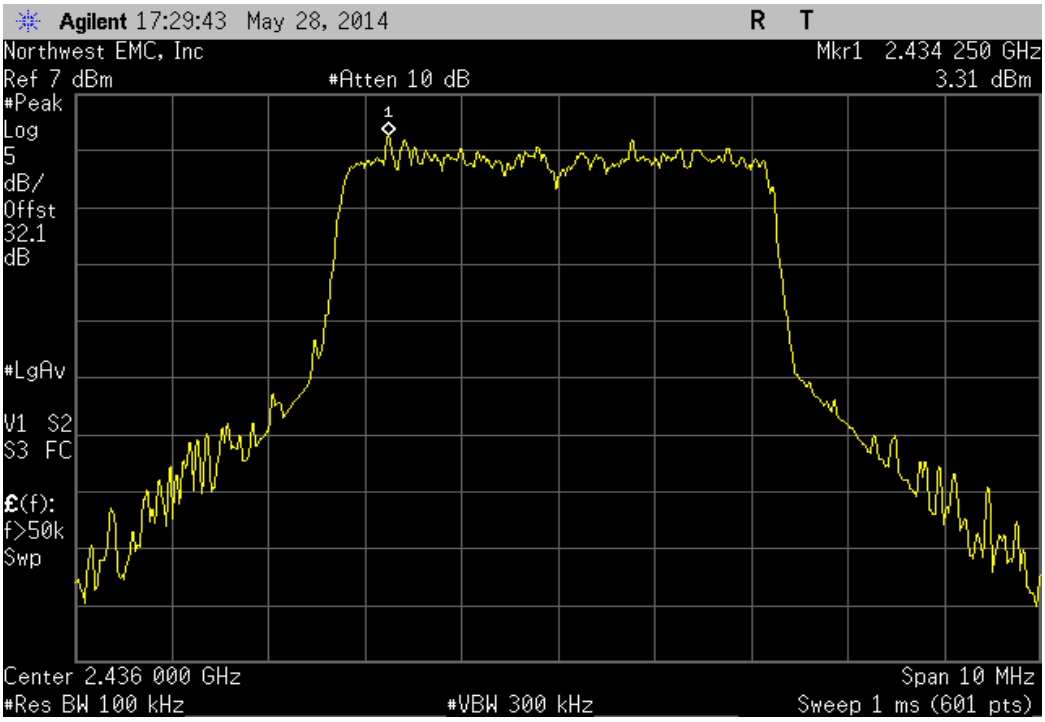


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2406 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		2.976	-15.2	-12.224	8	Pass

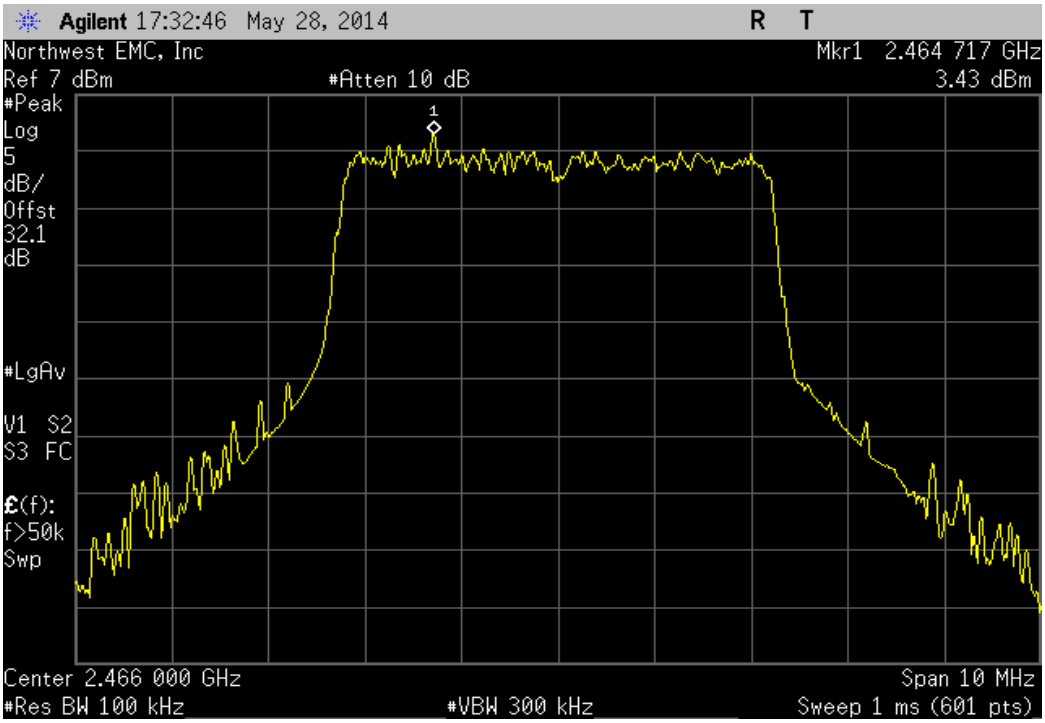


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2436 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.314	-15.2	-11.886	8	Pass

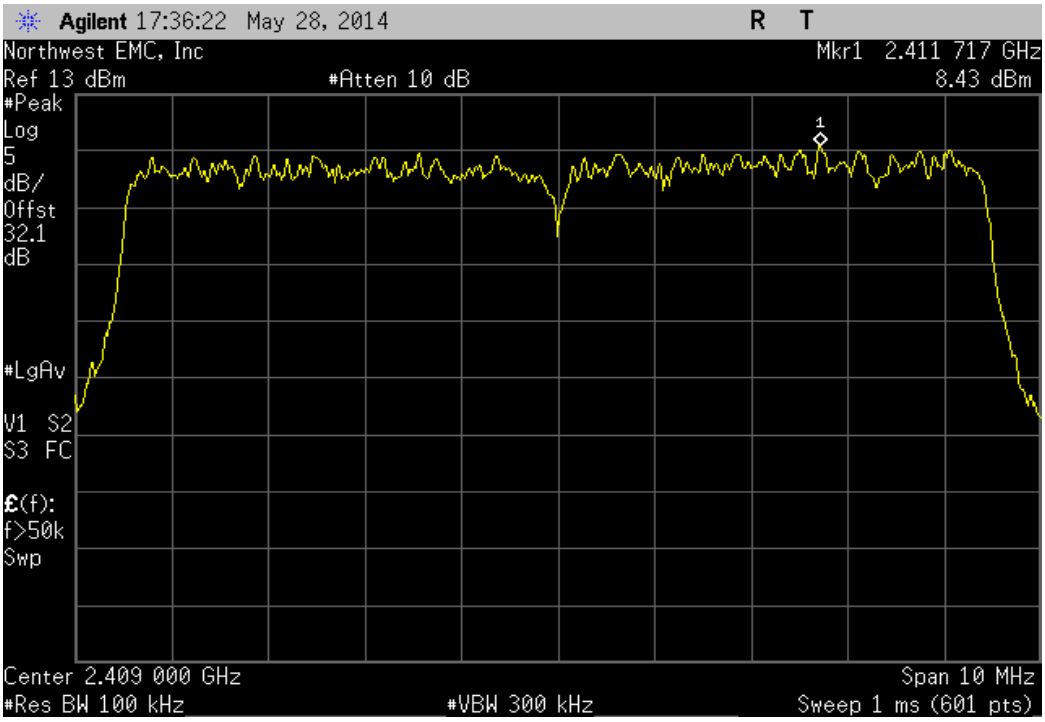


Chain C, 2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2466 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		3.433	-15.2	-11.767	8	Pass

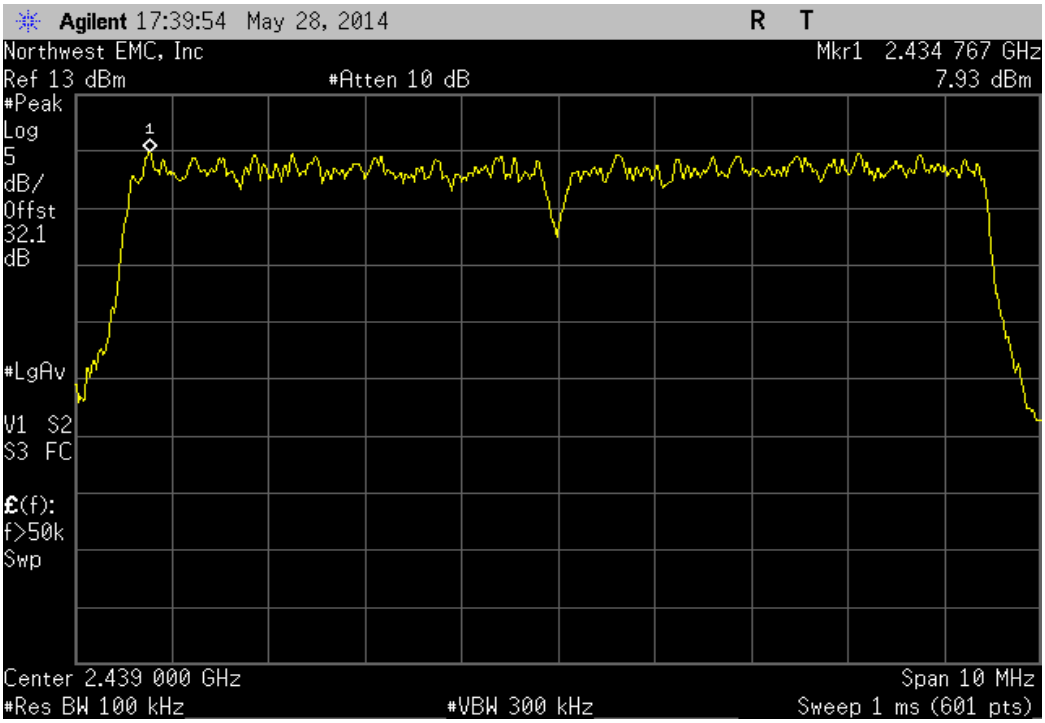


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.427	-15.2	-6.773	8	Pass

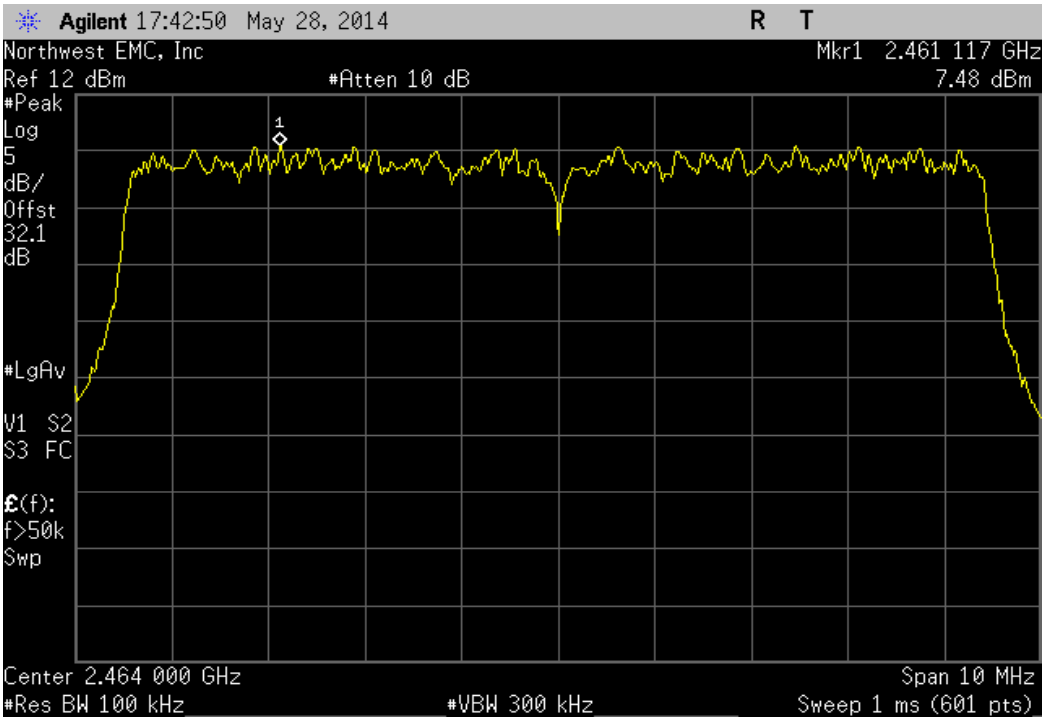


Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.931	-15.2	-7.269	8	Pass

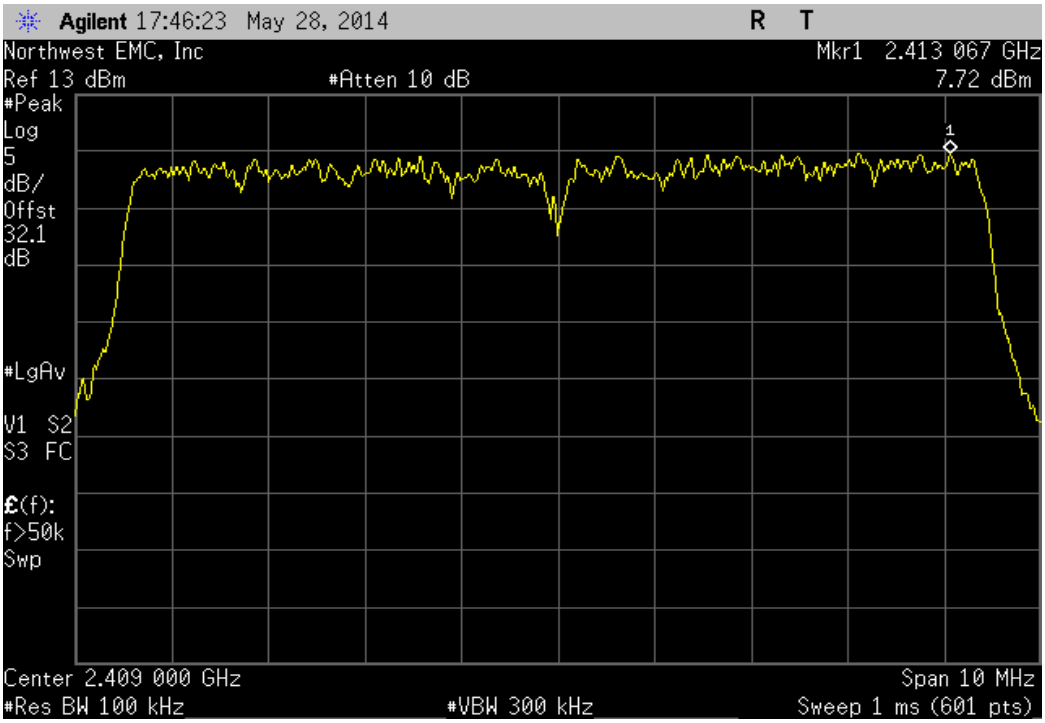


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, BPSK, Coding Rate, 1/2., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.477	-15.2	-7.723	8	Pass

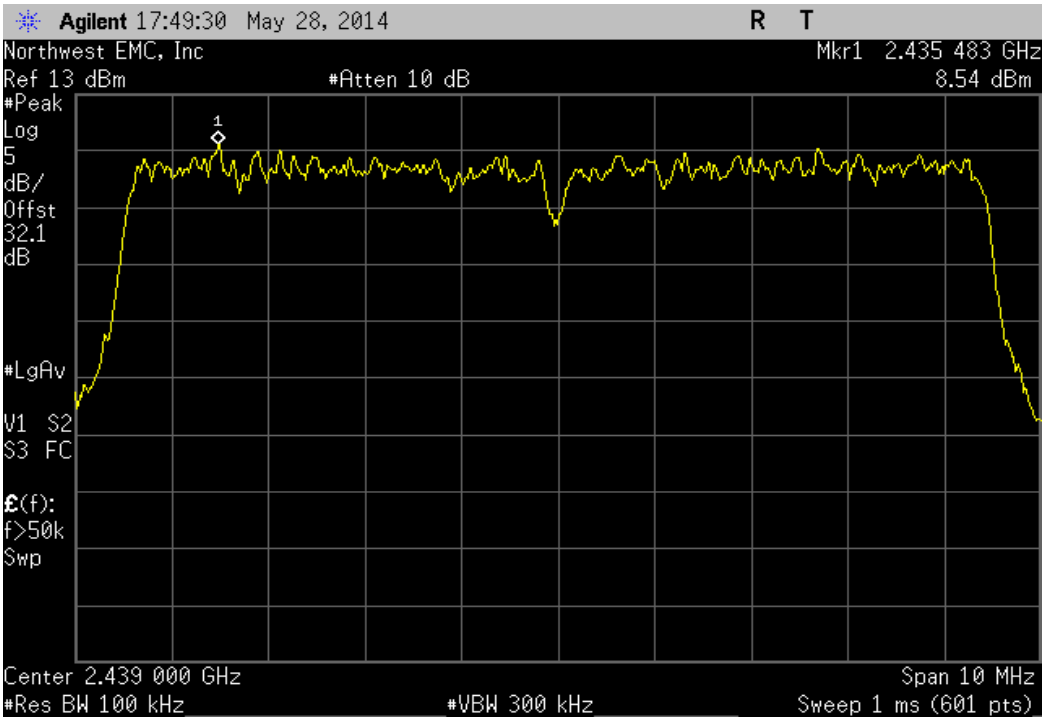


Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Low Channel 2409 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		7.722	-15.2	-7.478	8	Pass

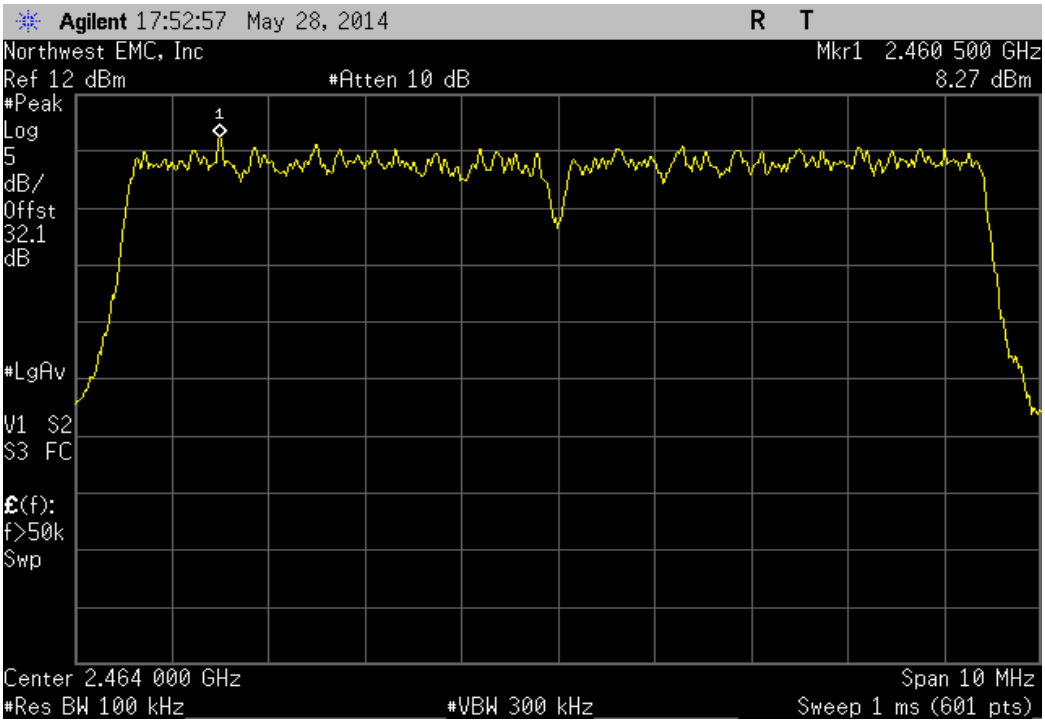


POWER SPECTRAL DENSITY - 3x3 MIMO

Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., Mid Channel 2439 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.541	-15.2	-6.659	8	Pass



Chain C, 2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 3x3 Modulation Type, 64-QAM, Coding Rate, 5/6., High Channel 2464 MHz						
		Value dBm/100kHz	dBm/100kHz To dBm/3kHz	Value dBm/3kHz	Limit dBm/3kHz	Result
		8.272	-15.2	-6.928	8	Pass



BAND EDGE COMPLIANCE

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24

TEST DESCRIPTION

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

BAND EDGE COMPLIANCE

EUT:	WavePoint 10e Industrial Wireless Router (w2400-01)	Work Order:	FREW0026
Serial Number:	135268908	Date:	05/29/14
Customer:	FreeWave Technologies, Inc.	Temperature:	22°C
Attendees:	Dean Busch	Humidity:	36%
Project:	None	Barometric Pres.:	1022
Tested by:	Brandon Hobbs, Jared Ison	Power: 12 VDC	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

An additional 10dB 5watt attenuater was used inline for all measurements made while under test. Please reference the power levels for this test in the power level table. The low and high channels tested used the modulation that produced the highest output power.

DEVIATIONS FROM TEST STANDARD

None

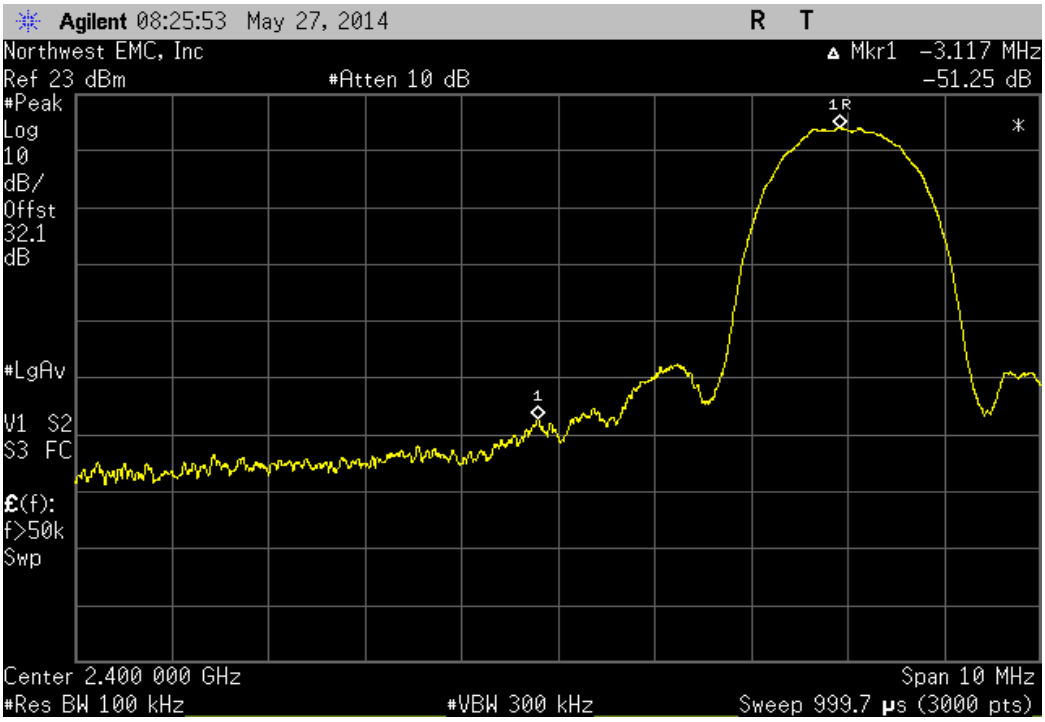
Configuration #	1	Signature

	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
Modulation Type, DBPSK			
Low Channel 2403 MHz	-51.25 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-60.96 dBc	≤ -20 dBc	Pass
Modulation Type, QPSK			
Low Channel 2403 MHz	-55.8 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-63.51 dBc	≤ -20 dBc	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2403 MHz	-45.89 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-57.7 dBc	≤ -20 dBc	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4			
Low Channel 2403 MHz	-43.76 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-55.84 dBc	≤ -20 dBc	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4			
Low Channel 2403 MHz	-44.46 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-56.68 dBc	≤ -20 dBc	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2403 MHz	-42.53 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-55.97 dBc	≤ -20 dBc	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6			
Low Channel 2403 MHz	-41.76 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	-55.08 dBc	≤ -20 dBc	Pass
5MHz Bandwidth			
Modulation Type, DBPSK			
Low Channel 2406 MHz	-54.23 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-59.12 dBc	≤ -20 dBc	Pass
Modulation Type, QPSK			
Low Channel 2406 MHz	-55.62 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-62.38 dBc	≤ -20 dBc	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2406 MHz	-45.59 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-52.72 dBc	≤ -20 dBc	Pass
Modulation Type, 16-QAM, Coding Rate, 3/4			
Low Channel 2406 MHz	-39.88 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-53.05 dBc	≤ -20 dBc	Pass
Modulation Type, 64-QAM, Coding Rate, 3/4			
Low Channel 2406 MHz	-41.92 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-53.23 dBc	≤ -20 dBc	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2406 MHz	-42.34 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-52.66 dBc	≤ -20 dBc	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6			
Low Channel 2406 MHz	-42.43 dBc	≤ -20 dBc	Pass
High Channel 2466 MHz	-51.87 dBc	≤ -20 dBc	Pass
10MHz Bandwidth			
Modulation Type, DBPSK			
Low Channel 2409 MHz	-47.65 dBc	≤ -20 dBc	Pass
High Channel 2464 MHz	-56.79 dBc	≤ -20 dBc	Pass
Modulation Type, BPSK, Coding Rate, 1/2			
Low Channel 2409 MHz	-35.59 dBc	≤ -20 dBc	Pass
High Channel 2464 MHz	-54.62 dBc	≤ -20 dBc	Pass
Modulation Type, 64-QAM, Coding Rate, 5/6			
Low Channel 2409 MHz	-37.29 dBc	≤ -20 dBc	Pass
High Channel 2464 MHz	-55.14 dBc	≤ -20 dBc	Pass

BAND EDGE COMPLIANCE

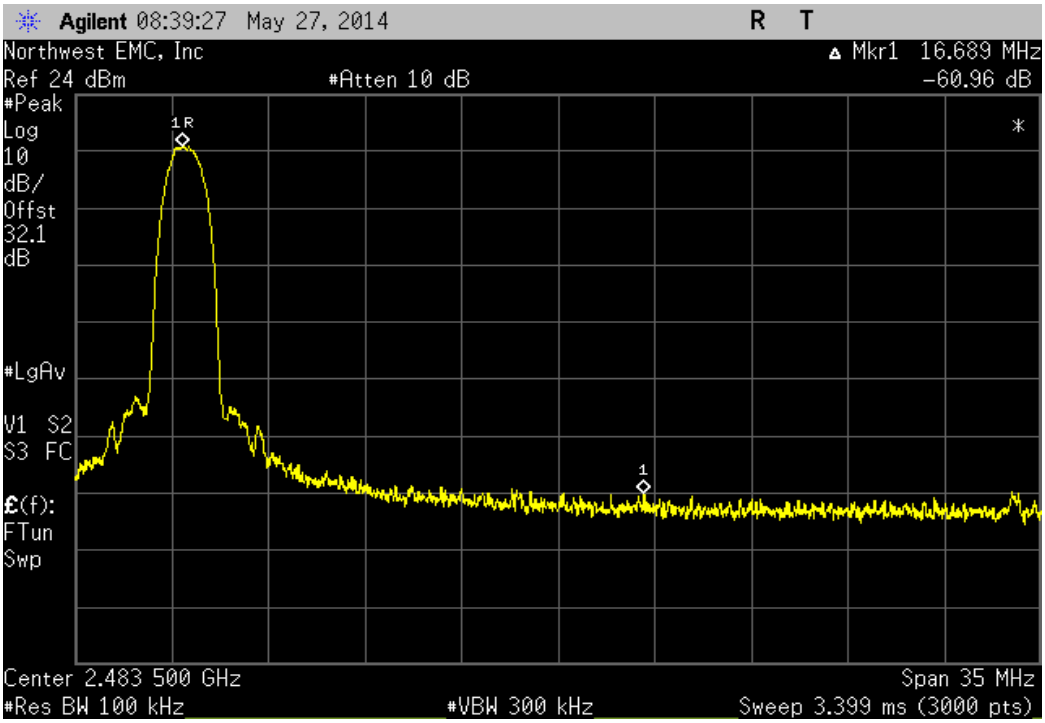
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, Low Channel 2403 MHz

				Value	Limit	Result
				-51.25 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, High Channel 2470 MHz

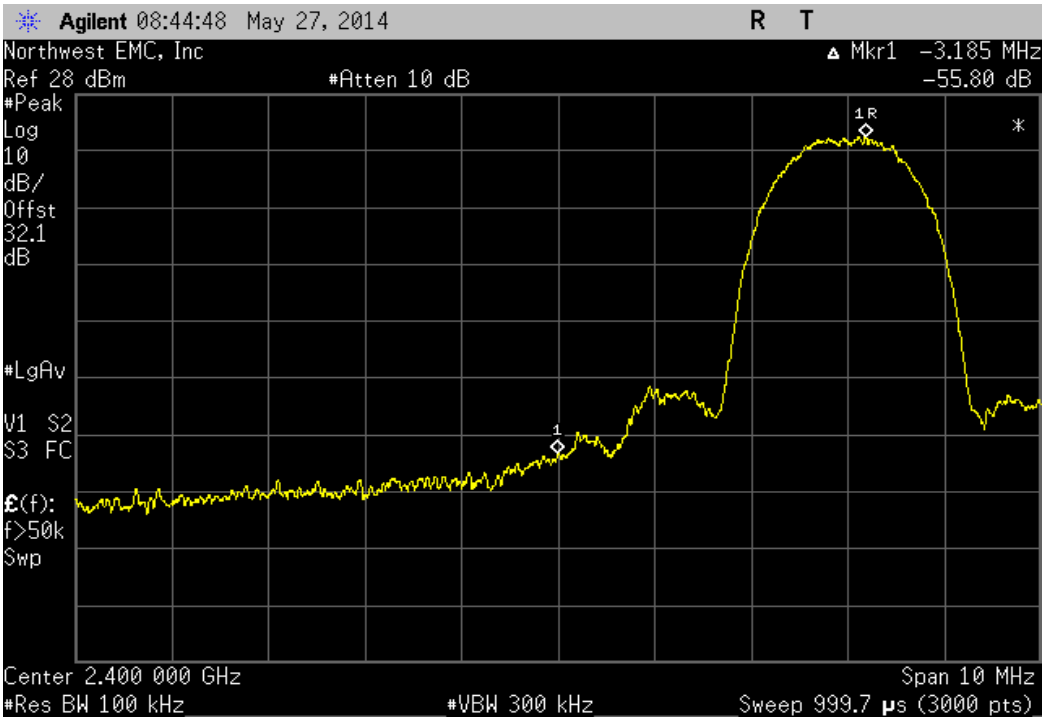
				Value	Limit	Result
				-60.96 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

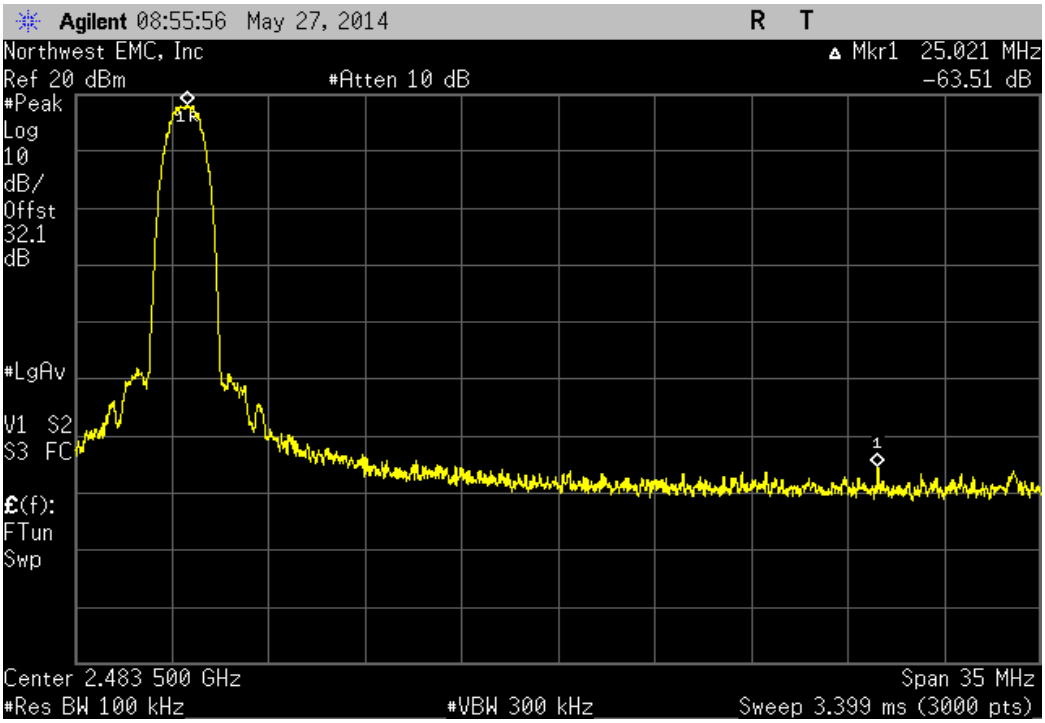
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 11Mbps, Modulation Type, QPSK, Low Channel 2403 MHz

				Value	Limit	Result
				-55.8 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 11Mbps, Modulation Type, QPSK, High Channel 2470 MHz

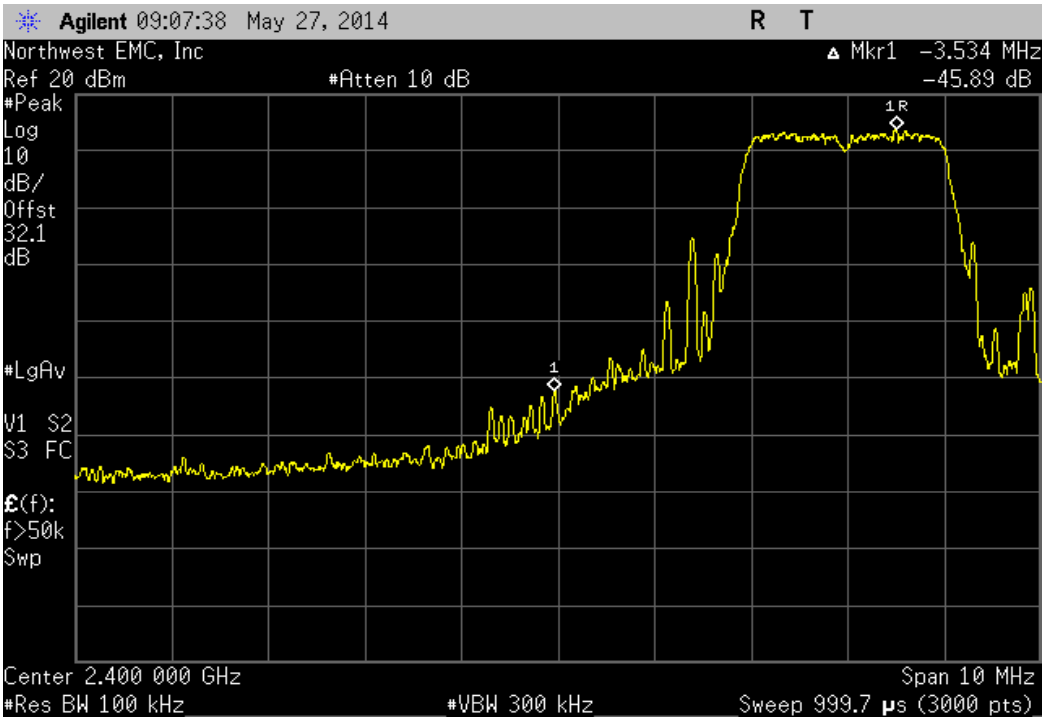
				Value	Limit	Result
				-63.51 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

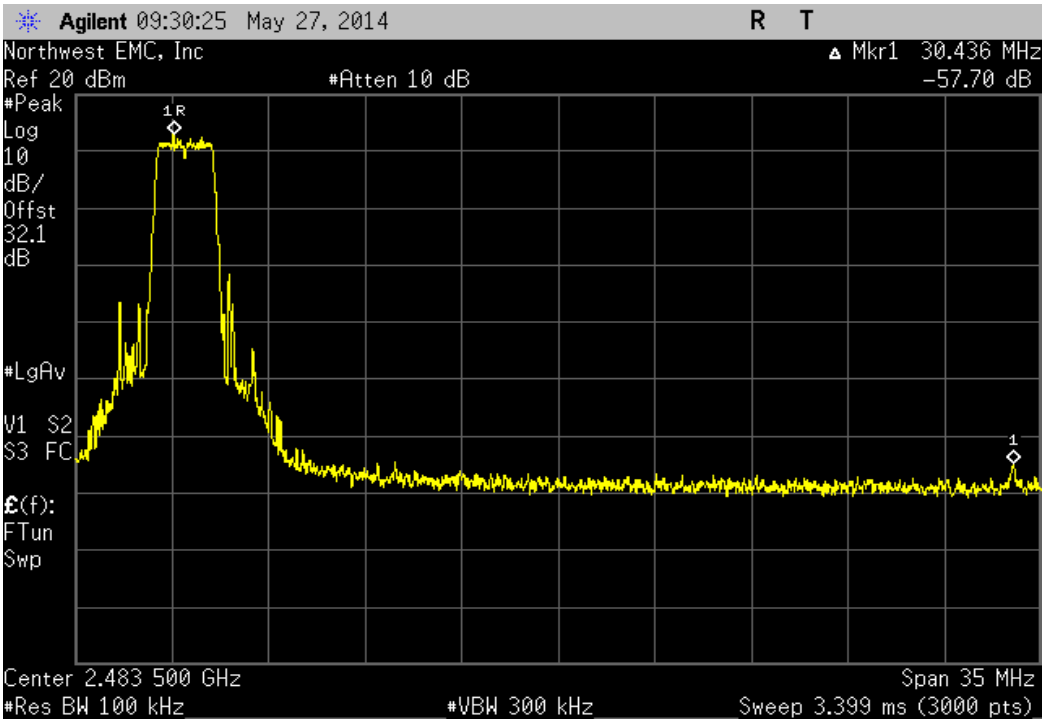
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz

				Value	Limit	Result
				-45.89 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

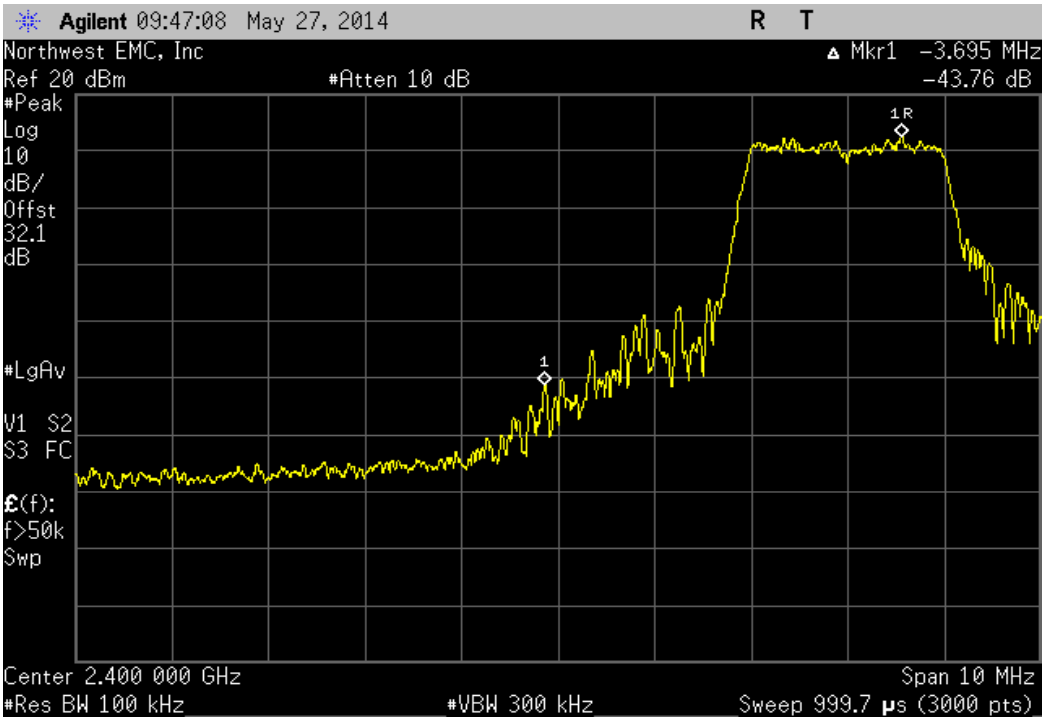
				Value	Limit	Result
				-57.7 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

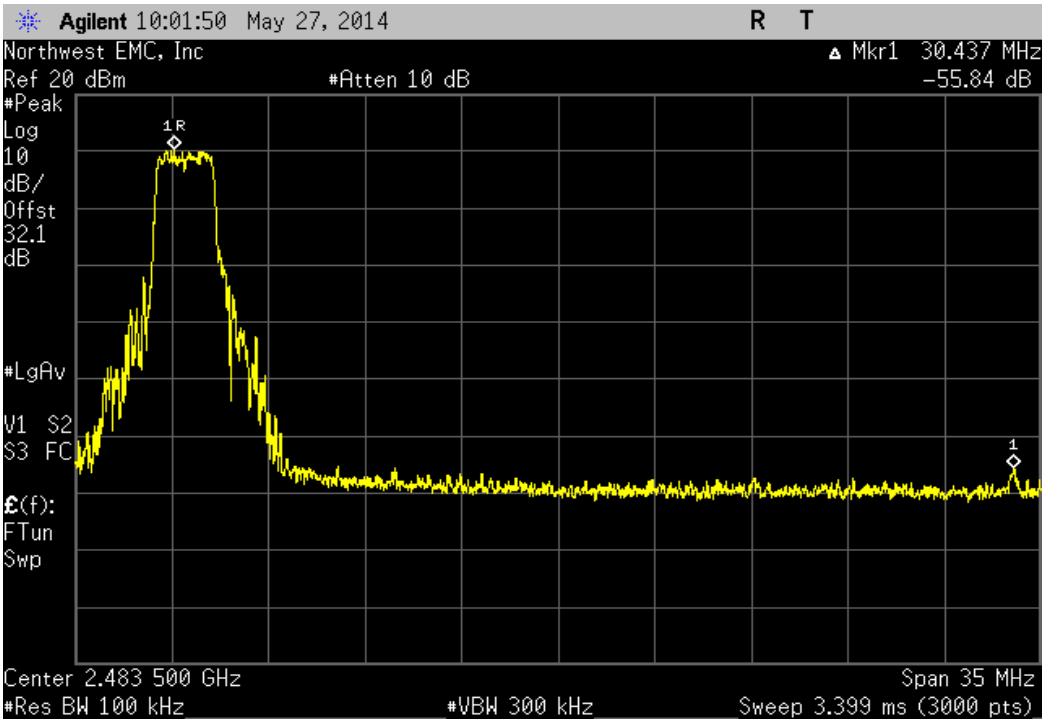
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 36Mbps, Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2403 MHz

				Value	Limit	Result
				-43.76 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 36Mbps, Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2470 MHz

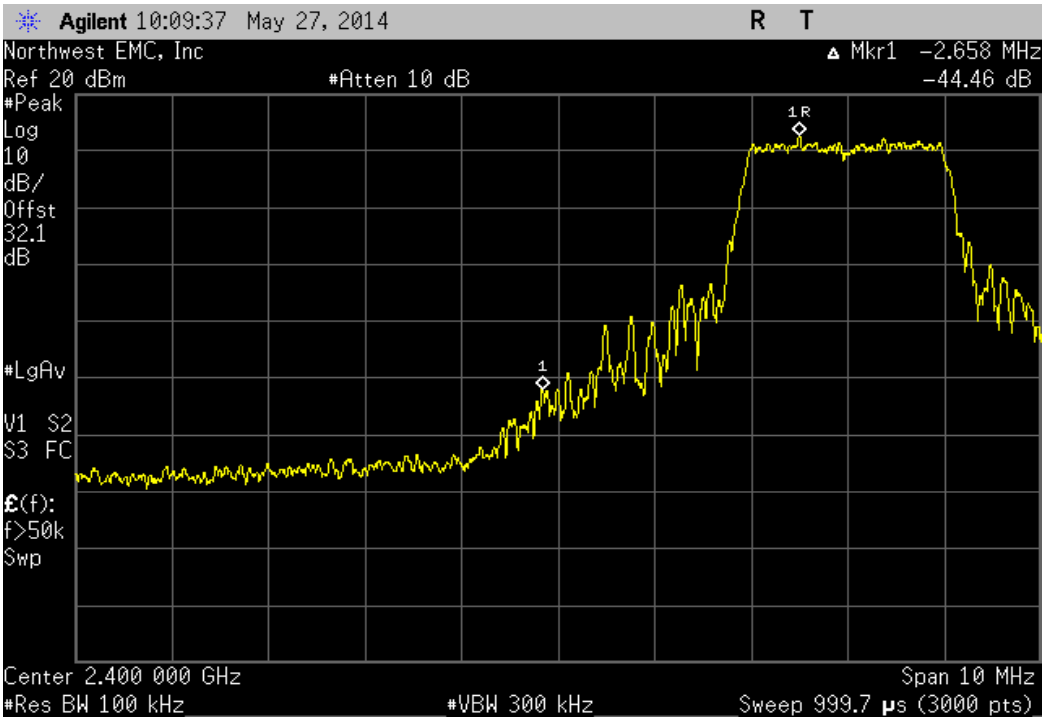
				Value	Limit	Result
				-55.84 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

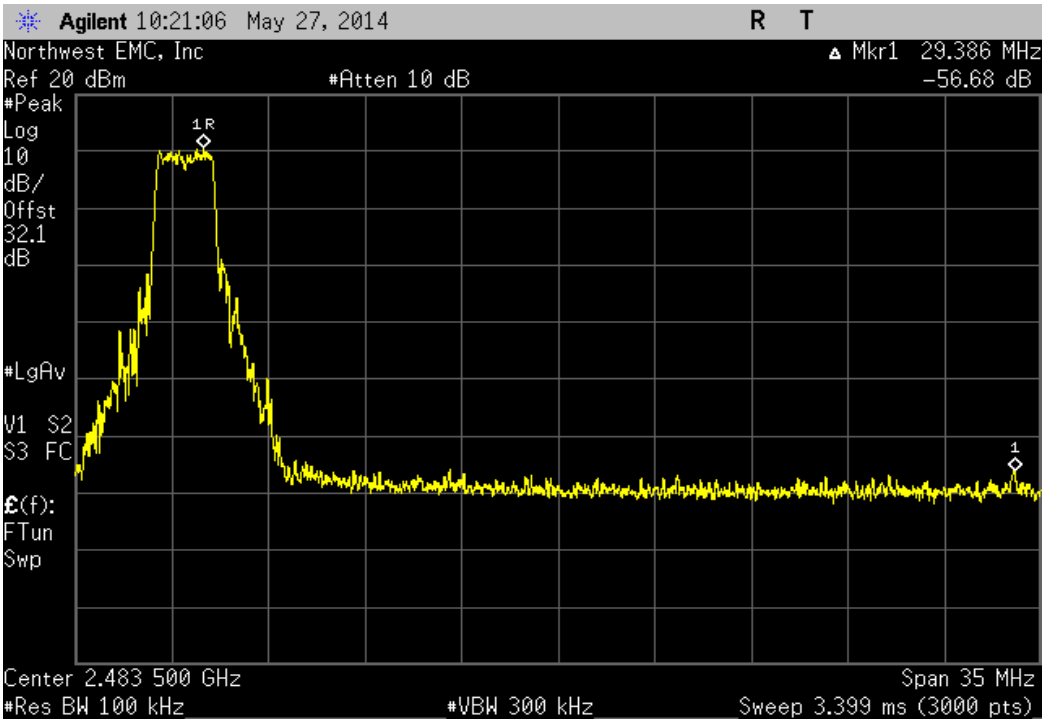
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 54Mbps, Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2403 MHz

				Value	Limit	Result
				-44.46 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 54Mbps, Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2470 MHz

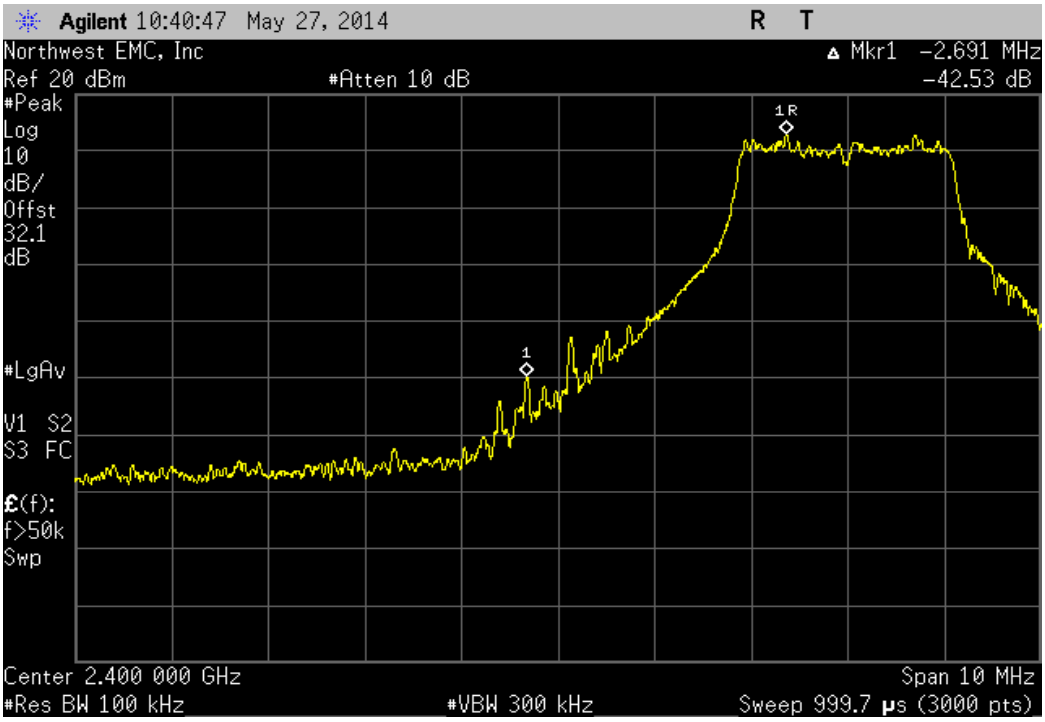
				Value	Limit	Result
				-56.68 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

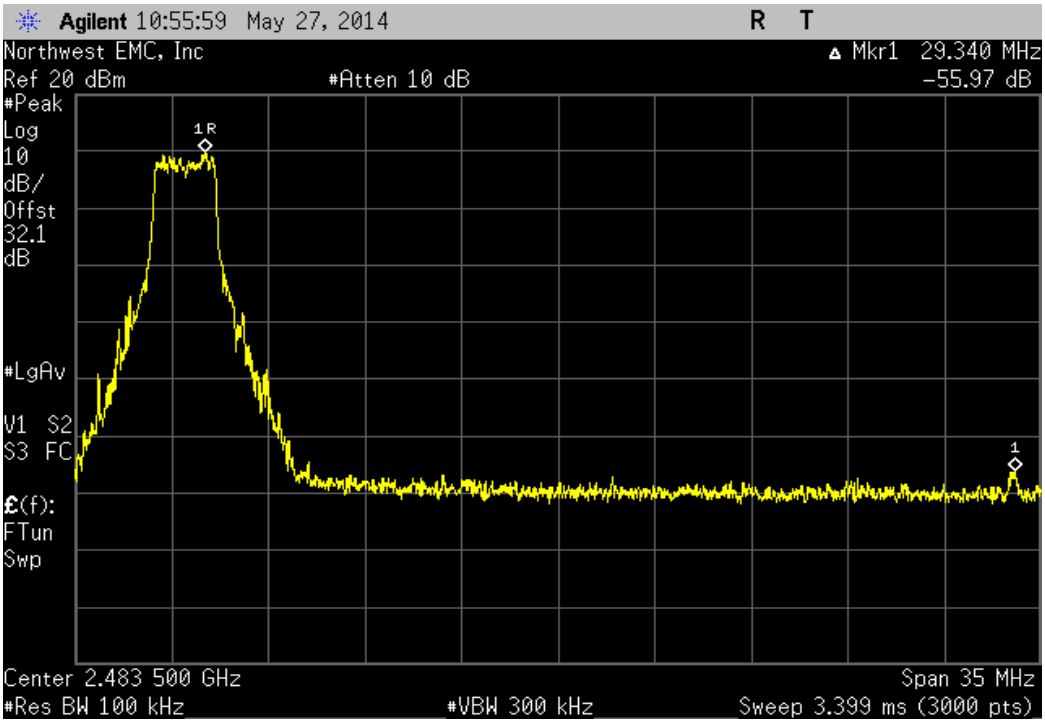
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , MCS0, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2403 MHz

				Value	Limit	Result
				-42.53 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , MCS0, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2470 MHz

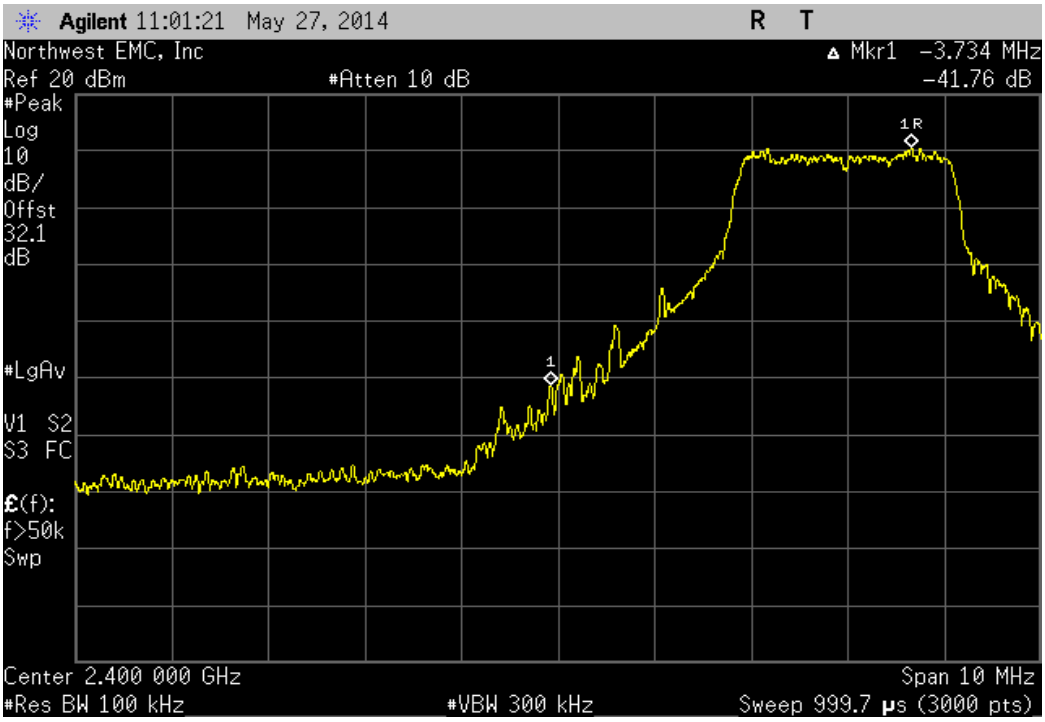
				Value	Limit	Result
				-55.97 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

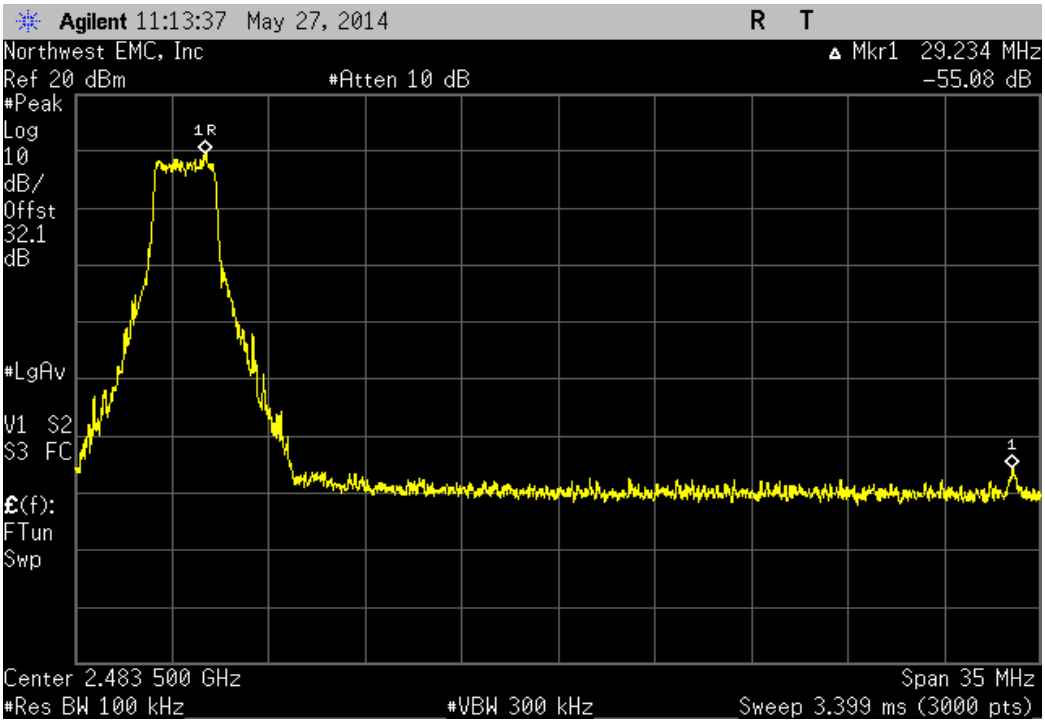
2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2403 MHz

				Value	Limit	Result
				-41.76 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2470 MHz

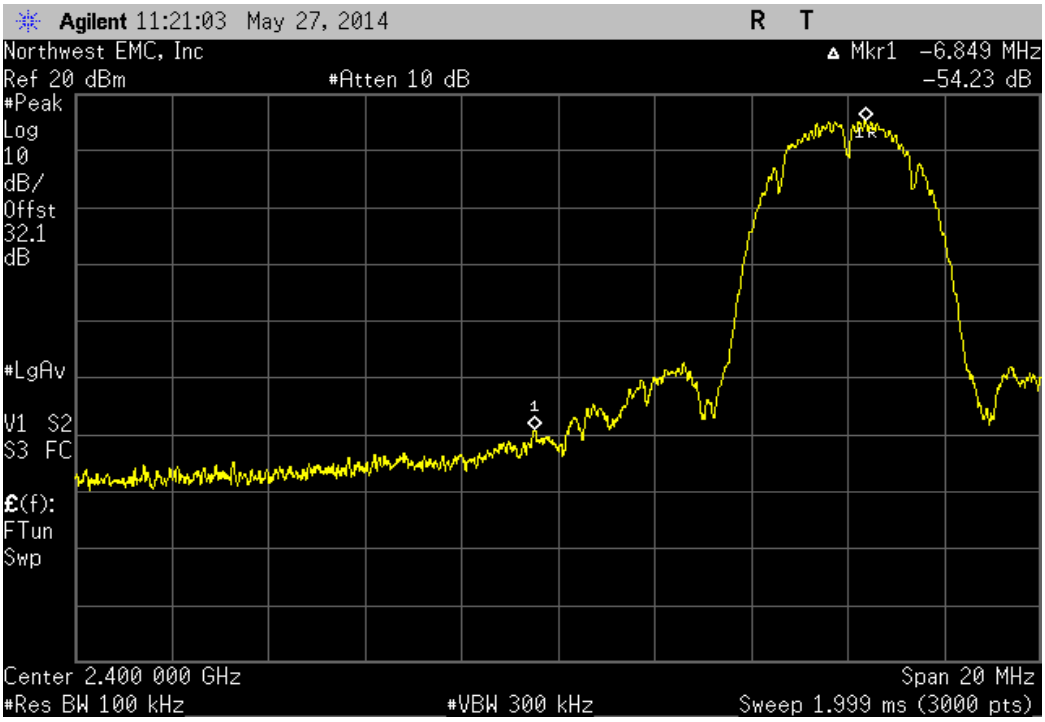
				Value	Limit	Result
				-55.08 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

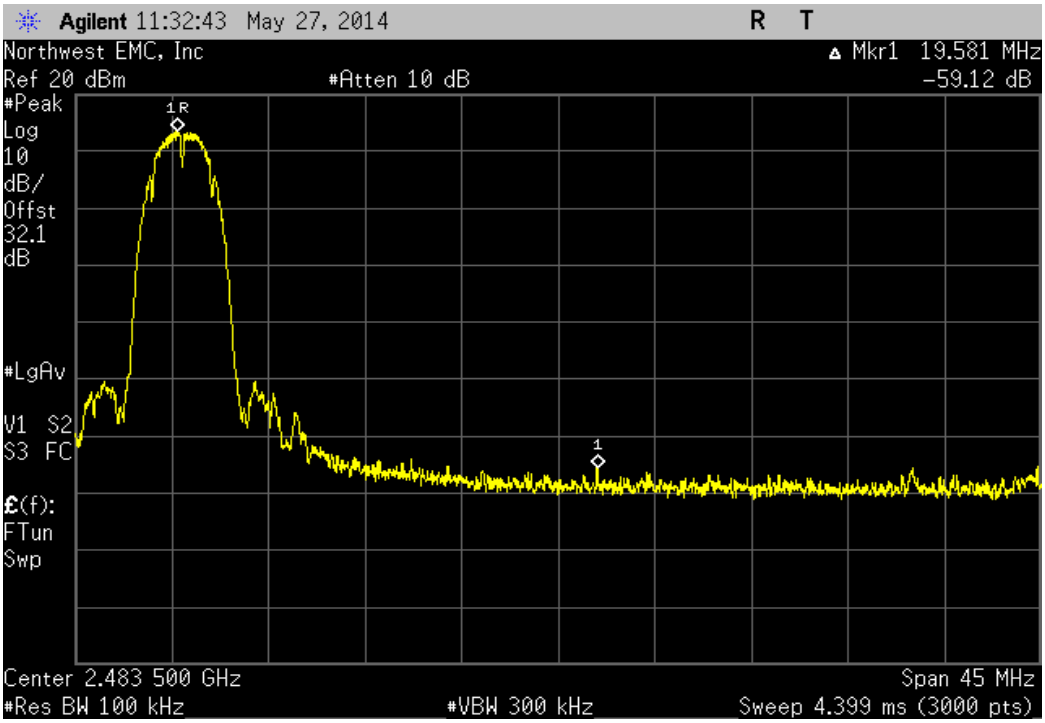
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, Low Channel 2406 MHz

				Value	Limit	Result
				-54.23 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, High Channel 2466 MHz

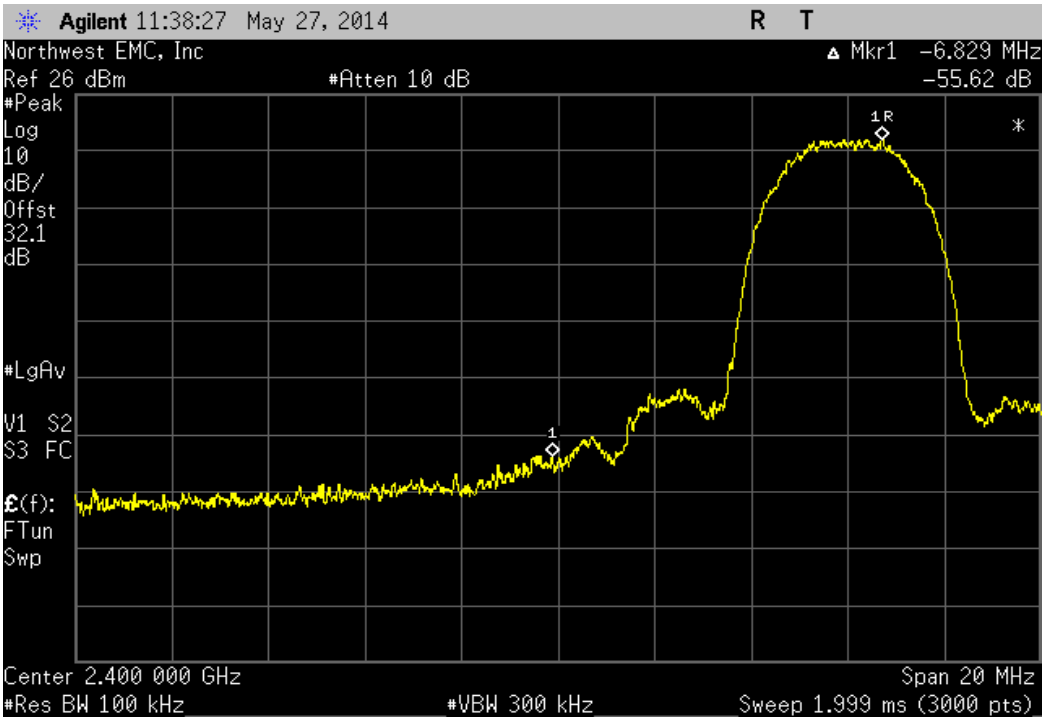
				Value	Limit	Result
				-59.12 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

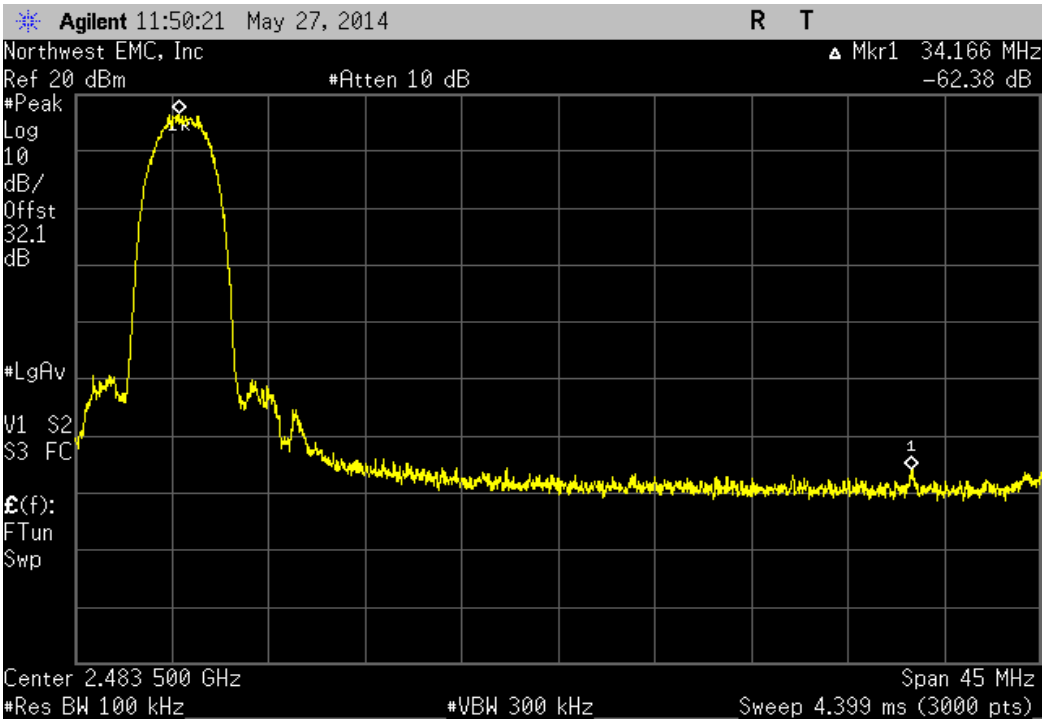
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 11Mbps, Modulation Type, QPSK, Low Channel 2406 MHz

				Value	Limit	Result
				-55.62 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 11Mbps, Modulation Type, QPSK, High Channel 2466 MHz

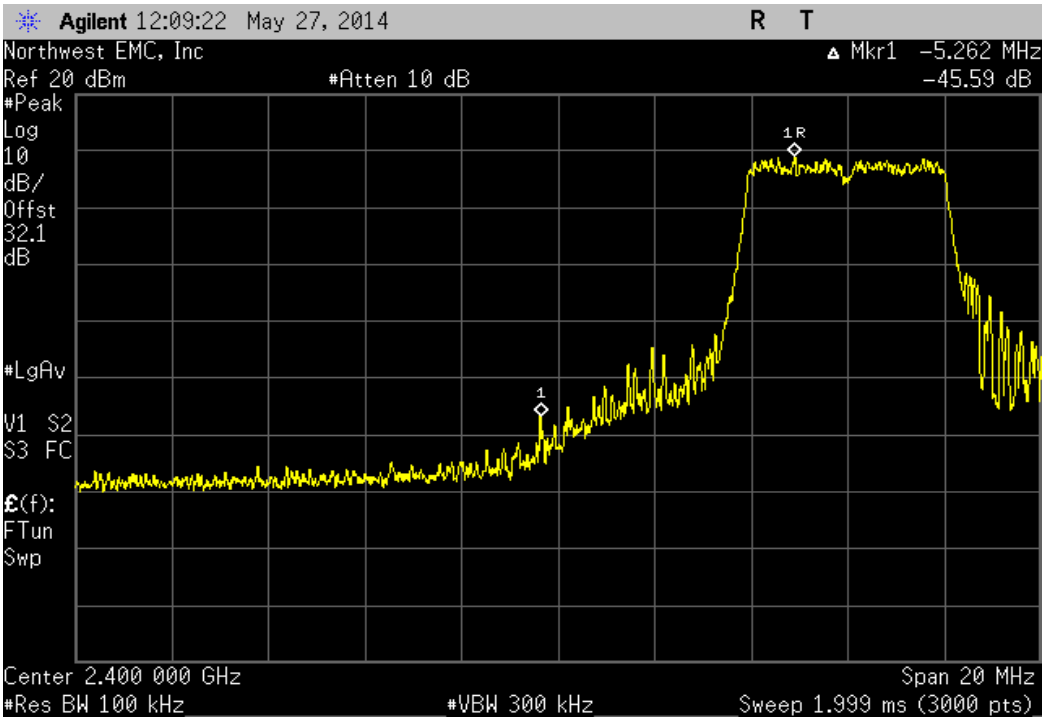
				Value	Limit	Result
				-62.38 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

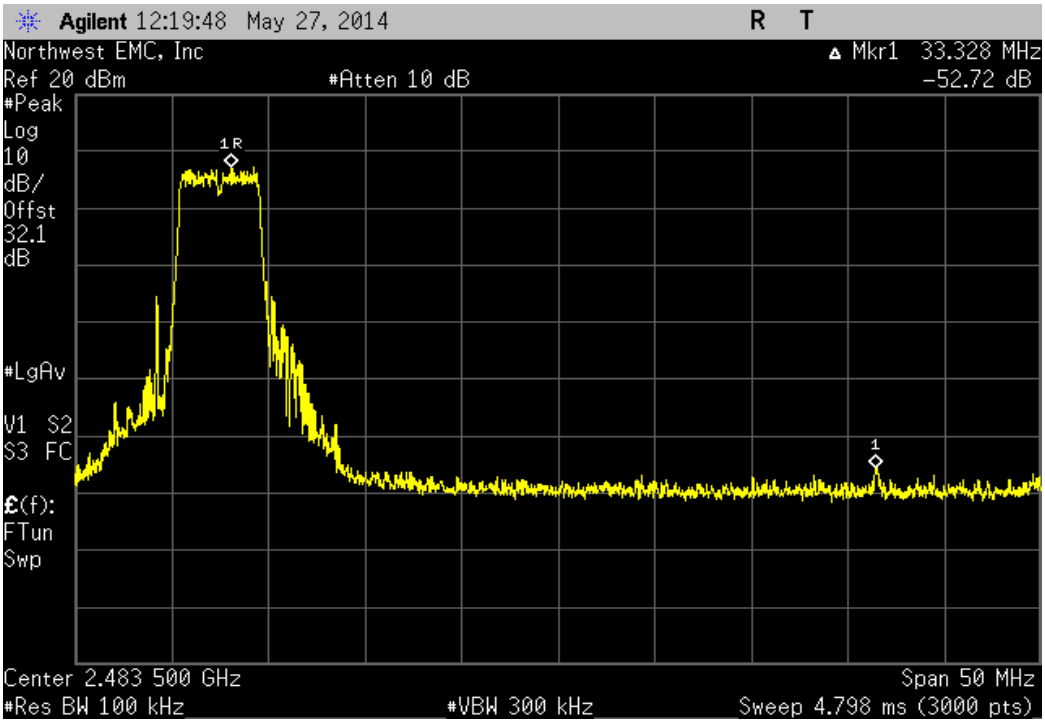
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz

				Value	Limit	Result
				-45.59 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz

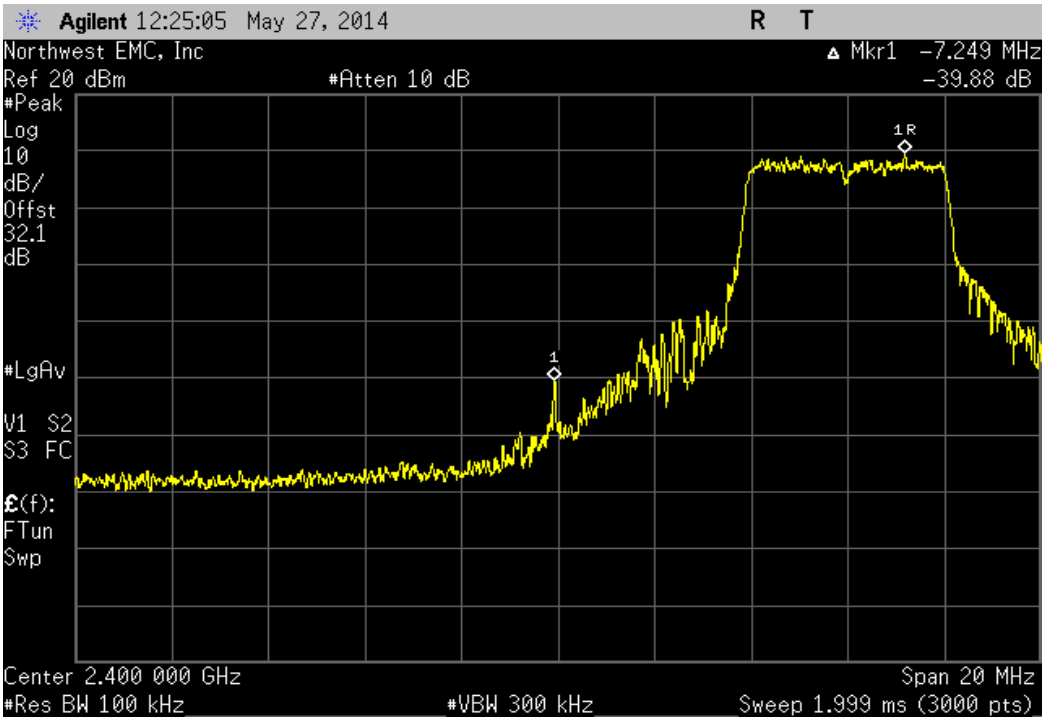
				Value	Limit	Result
				-52.72 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

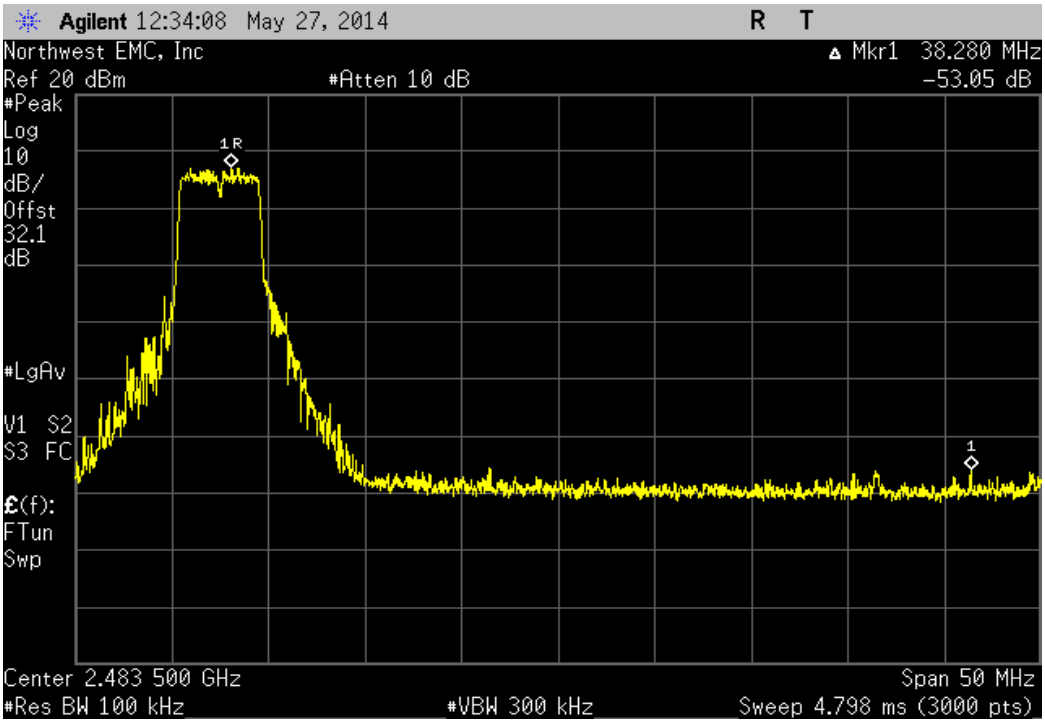
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 36Mbps, Modulation Type, 16-QAM, Coding Rate, 3/4, Low Channel 2406 MHz

				Value	Limit	Result
				-39.88 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 36Mbps, Modulation Type, 16-QAM, Coding Rate, 3/4, High Channel 2466 MHz

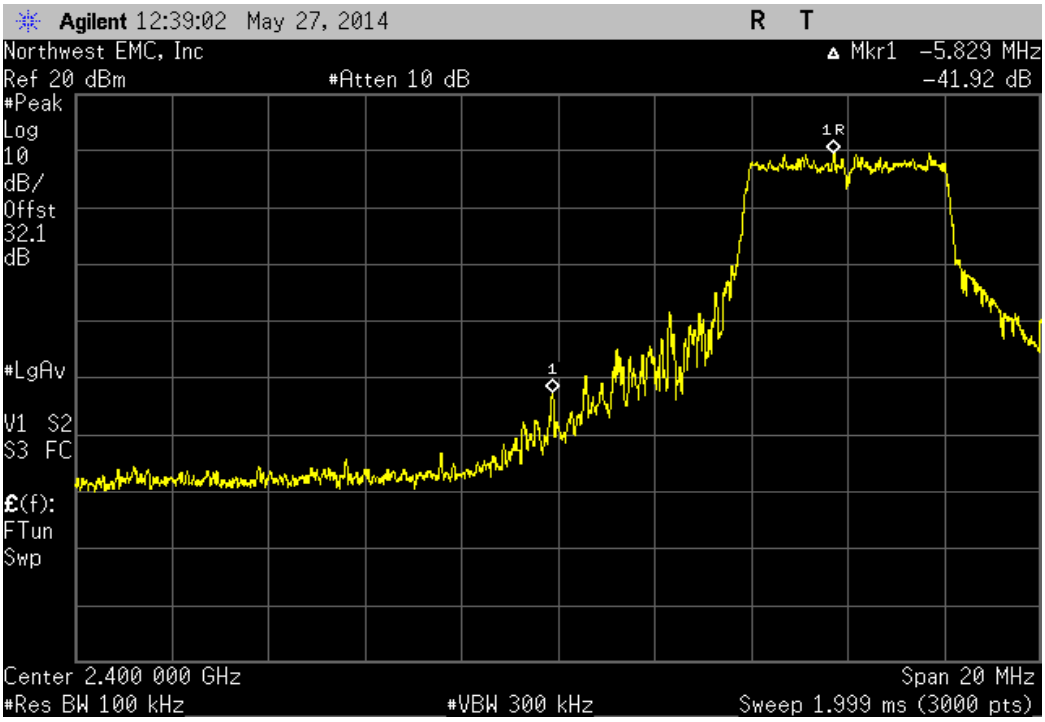
				Value	Limit	Result
				-53.05 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

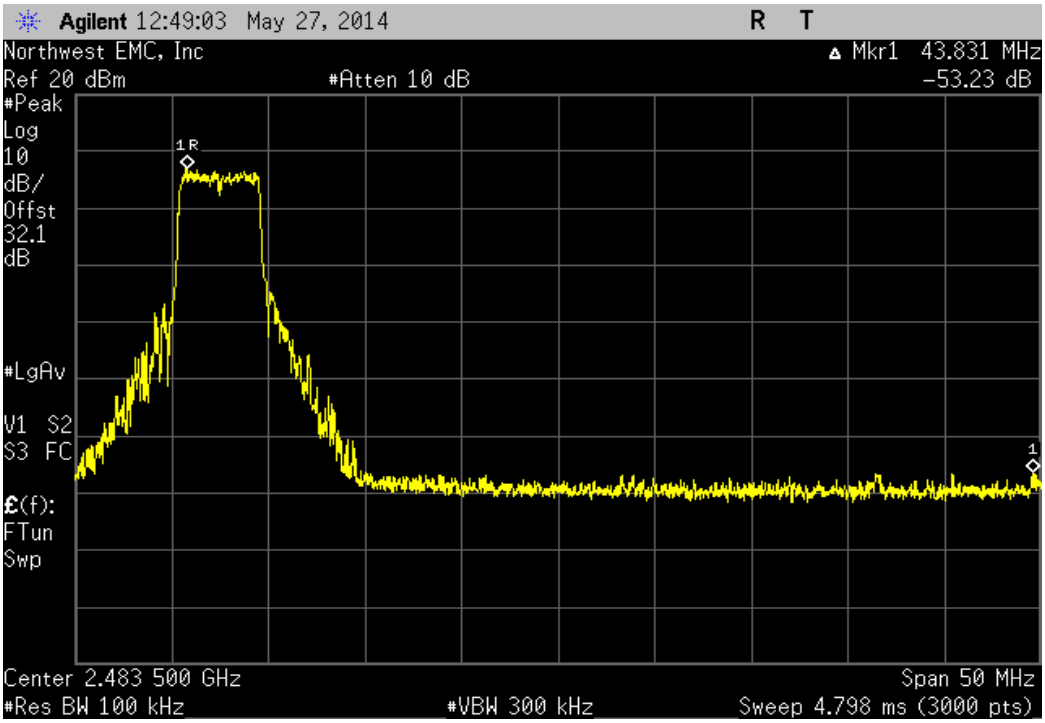
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 54Mbps, Modulation Type, 64-QAM, Coding Rate, 3/4, Low Channel 2406 MHz

				Value	Limit	Result
				-41.92 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 54Mbps, Modulation Type, 64-QAM, Coding Rate, 3/4, High Channel 2466 MHz

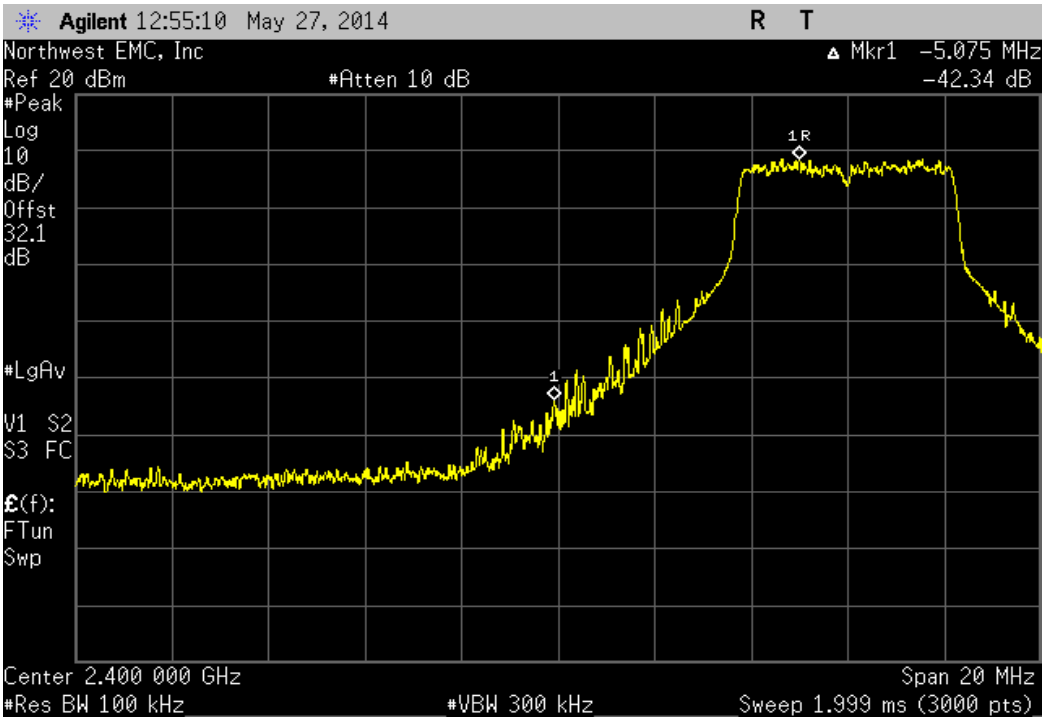
				Value	Limit	Result
				-53.23 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

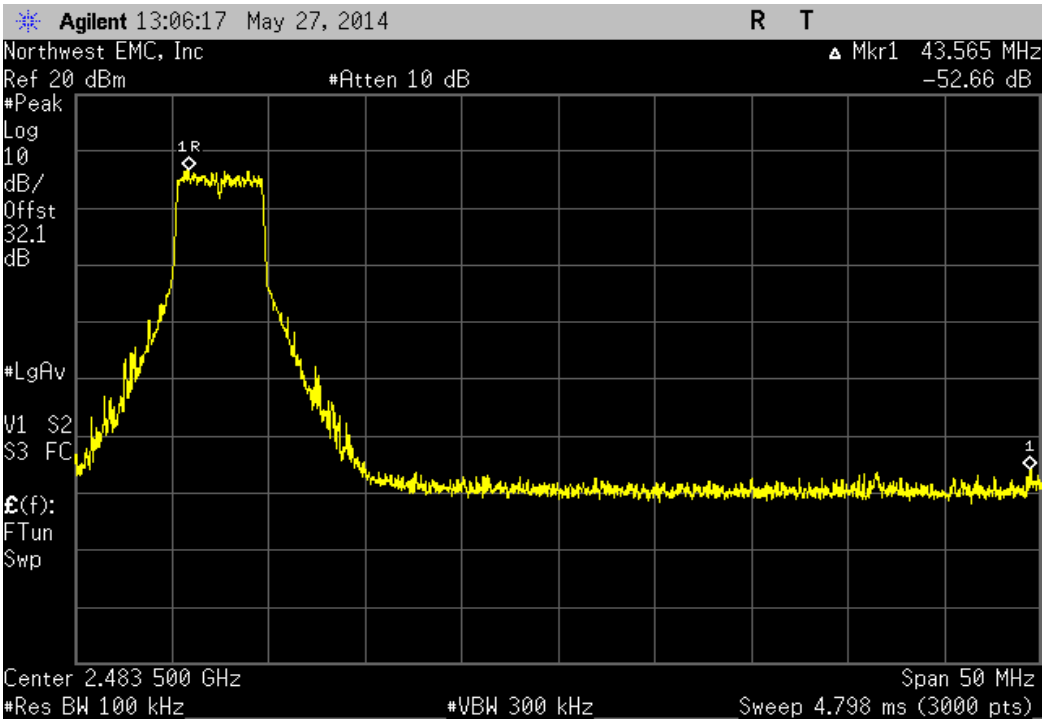
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , MCS0, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2406 MHz

				Value	Limit	Result
				-42.34 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , MCS0, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2466 MHz

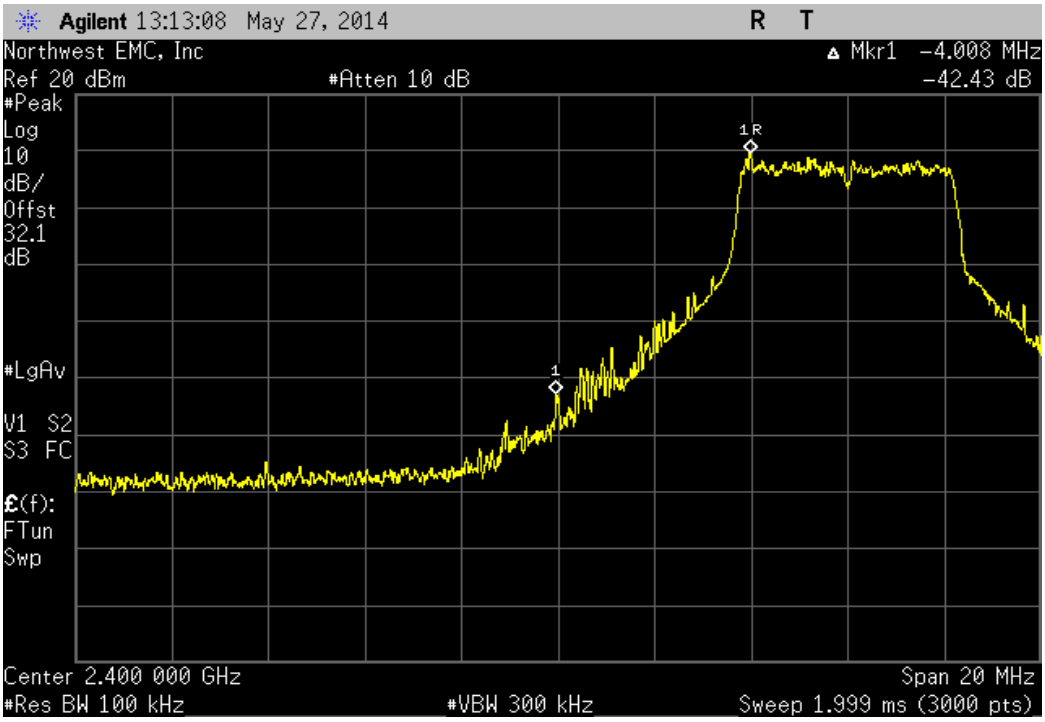
				Value	Limit	Result
				-52.66 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

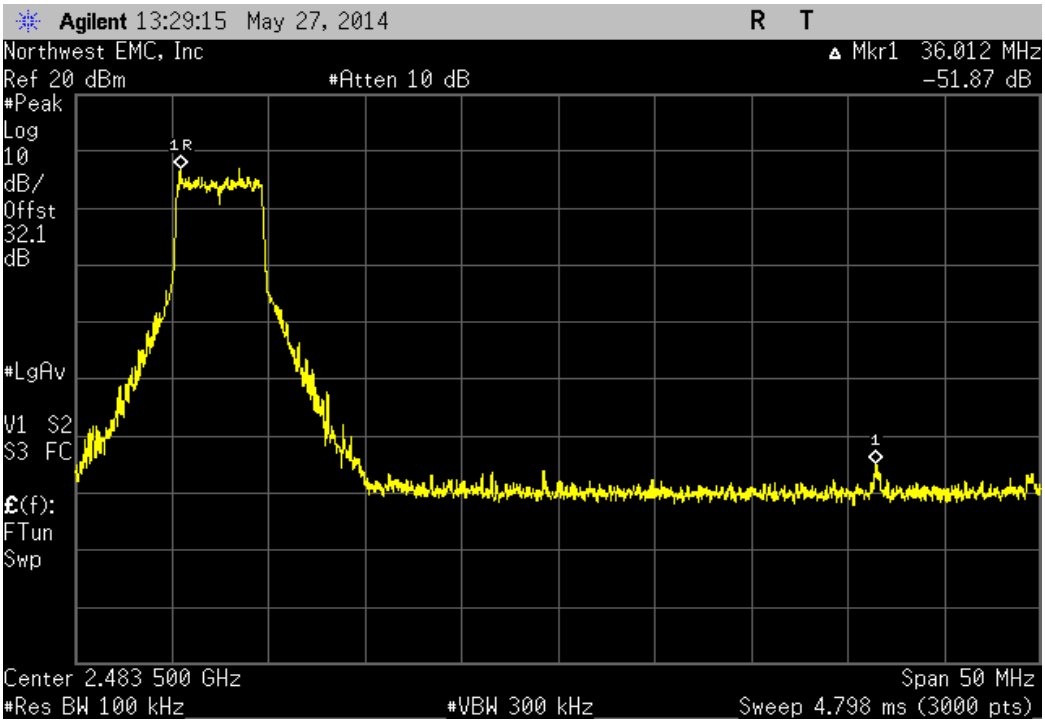
2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2406 MHz

				Value	Limit	Result
				-42.43 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2466 MHz

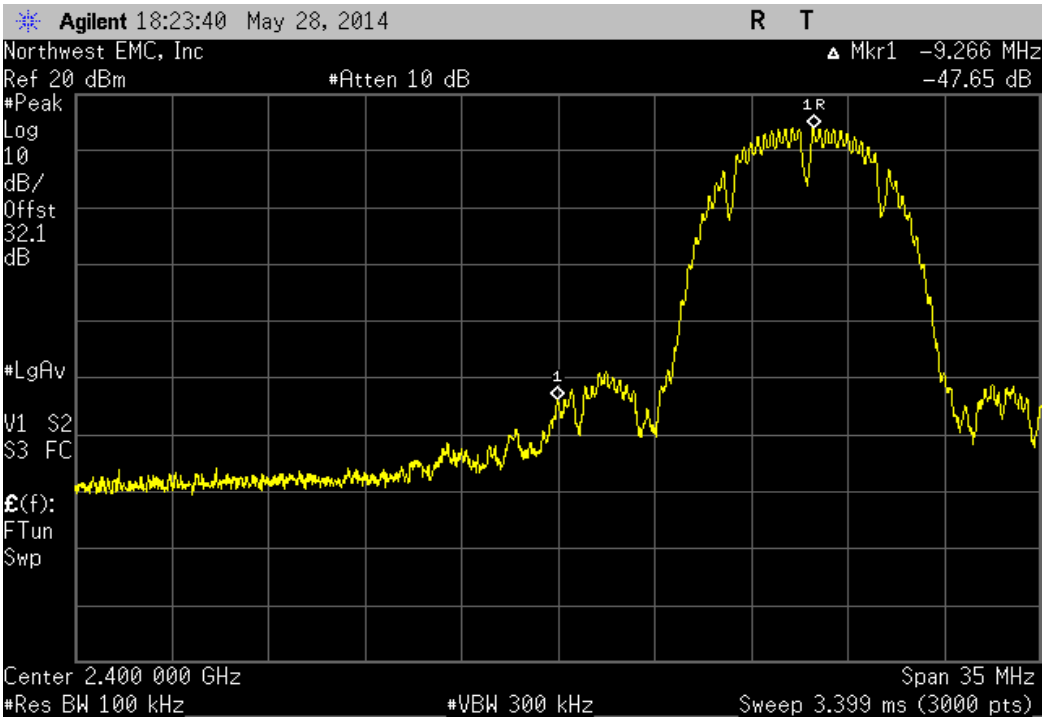
				Value	Limit	Result
				-51.87 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

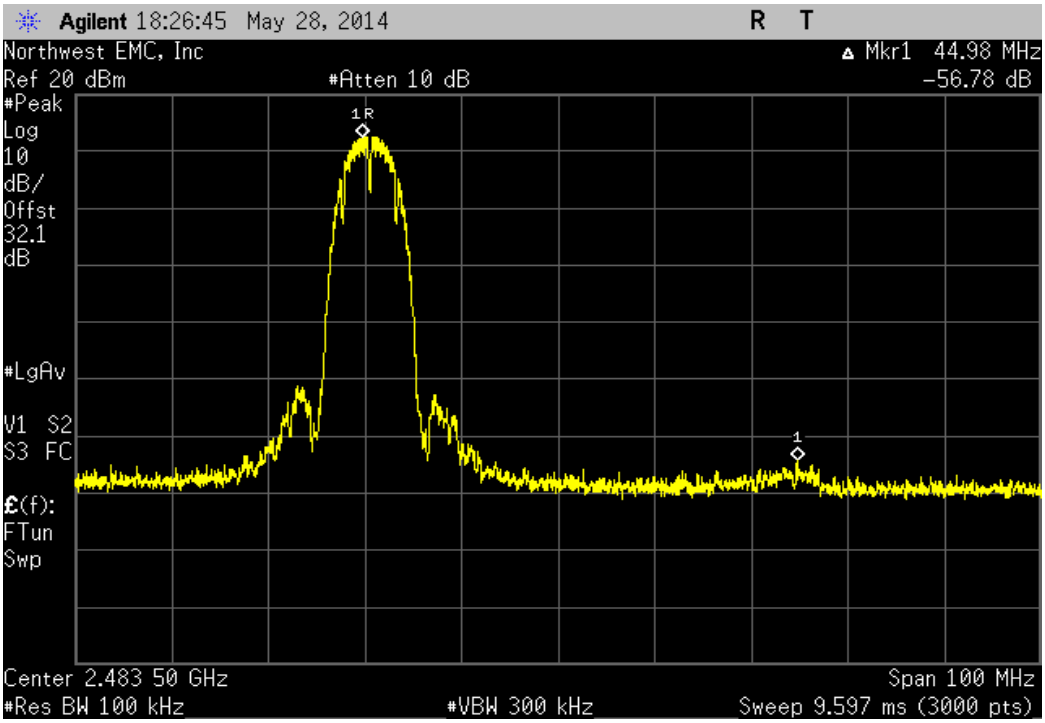
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, Low Channel 2409 MHz

				Value	Limit	Result
				-47.65 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth ,1Mbps, Modulation Type, DBPSK, High Channel 2464 MHz

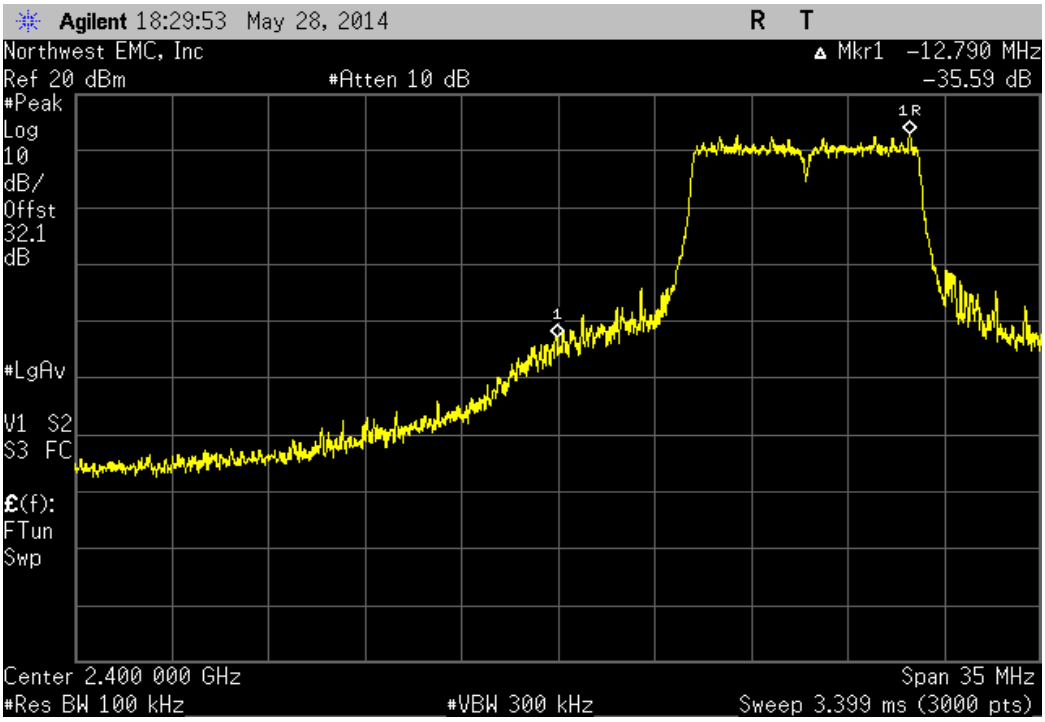
				Value	Limit	Result
				-56.79 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

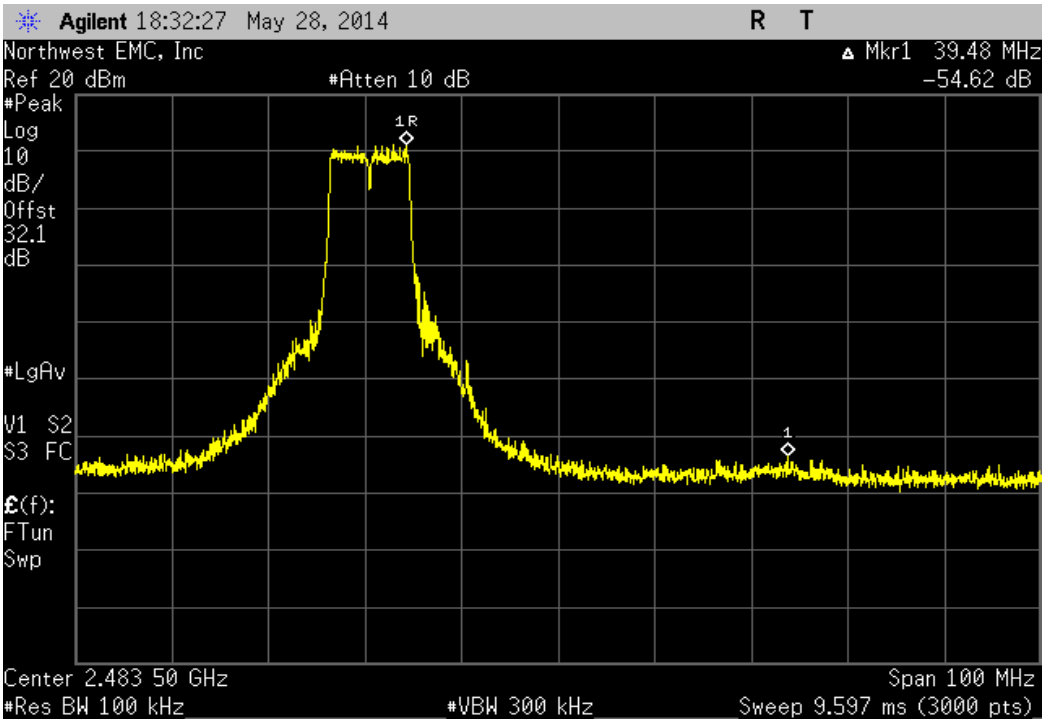
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, Low Channel 2409 MHz

				Value	Limit	Result
				-35.59 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 6Mbps, Modulation Type, BPSK, Coding Rate, 1/2, High Channel 2464 MHz

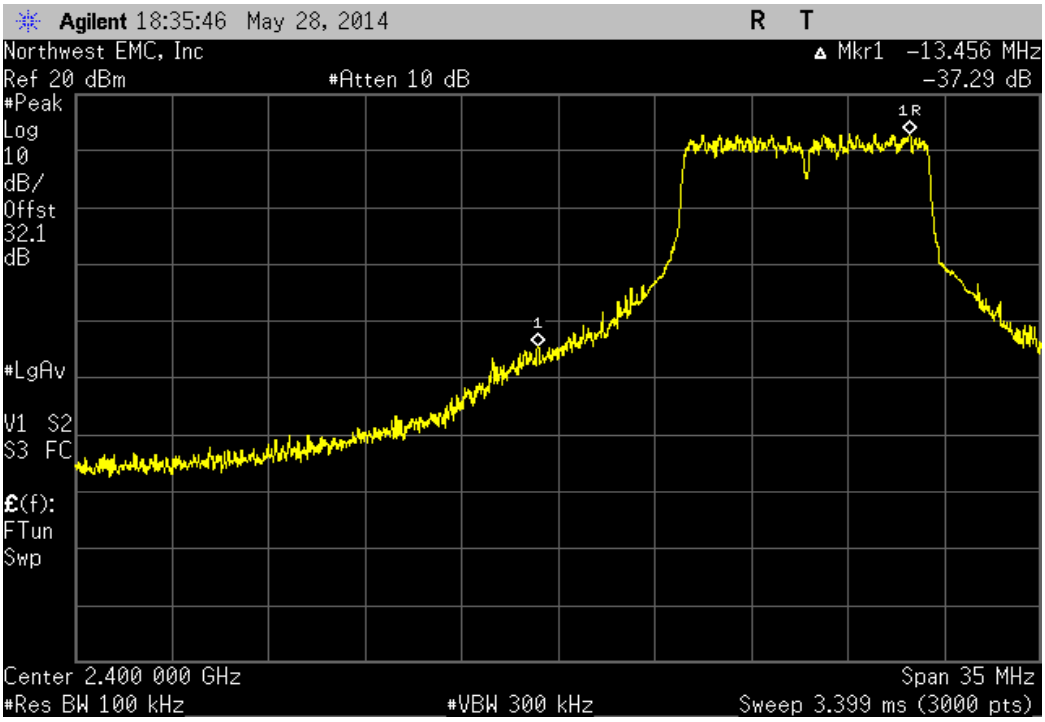
				Value	Limit	Result
				-54.62 dBc	≤ -20 dBc	Pass



BAND EDGE COMPLIANCE

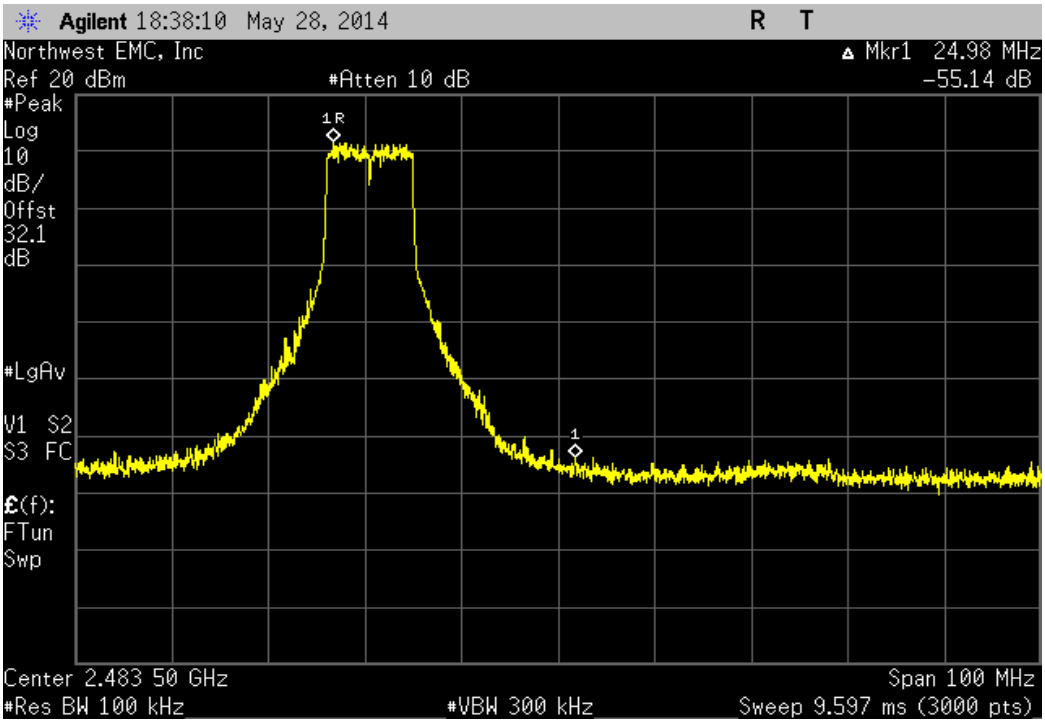
2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, Low Channel 2409 MHz

				Value	Limit	Result
				-37.29 dBc	≤ -20 dBc	Pass



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , Modulation Type, 64-QAM, Coding Rate, 5/6, High Channel 2464 MHz

				Value	Limit	Result
				-55.14 dBc	≤ -20 dBc	Pass



SPURIOUS CONDUCTED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
40GHz DC Block	Miteq	DCB4000	AMD	4/28/2014	12
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/30/2013	12
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 6 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-6	AUX	7/30/2013	12
Power Meter	Agilent	N1913A	SQR	4/29/2013	36
Power Sensor	Agilent	E9300H	SQO	4/29/2013	36
Spectrum Analyzer	Agilent	E4446A	AAQ	1/21/2014	24
MXG MW Analog Signal Generator 40 Gig	Agilent	N5183A	TID	9/19/2011	36

TEST DESCRIPTION

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

SPURIOUS CONDUCTED EMISSIONS

EUT:	WavePoint 10e Industrial Wireless Router (W2400-01)	**Work Order:**	FREW0026
Serial Number:	135268908	**Date:**	06/04/14
Customer:	FreeWave Technologies, Inc.	**Temperature:**	22°C
Attendees:	Dean Busch	**Humidity:**	36%
Project:	None	**Barometric Pres.:**	1022
Tested by:	Brandon Hobbs, Jared Ison	**Power:** 12 VDC	**Job Site:** EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247:2014	ANSI C63.10:2009

COMMENTS

Please reference the power levels for this test in the power level table. An additional 10dB 5watt attenuater was used inline for all measurements made while under test.

DEVIATIONS FROM TEST STANDARD

None

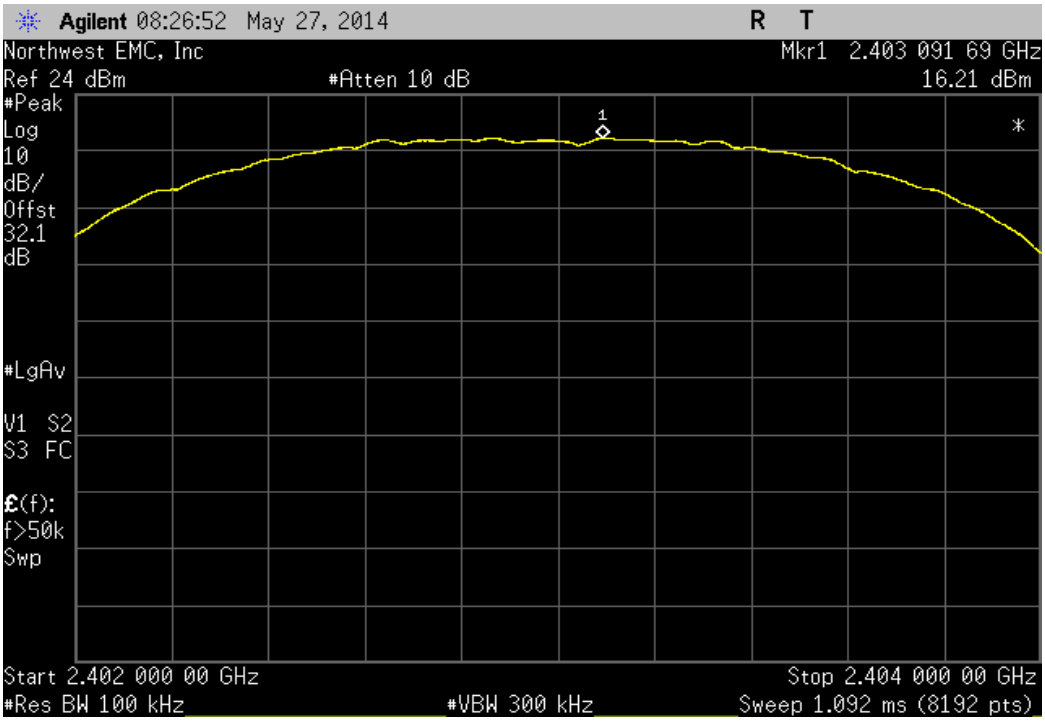
Configuration #	1	Signature

Frequency Range	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
2.5MHz Bandwidth			
802.11(b) 1 Mbps			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-60.16 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-53.51 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-59.93 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-52.54 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-59.08 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-51.5 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-63.99 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-57.45 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-62.45 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-57.35 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-62.77 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-55.7 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-58.25 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-51.91 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-58.18 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-51.68 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-57.43 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-50.77 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-56.41 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-49.69 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-55.66 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-48.5 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-54.69 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-47.93 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-56.82 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-48.9 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-54.83 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-48.19 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-54.26 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-47.78 dBc	≤ -20 dBc	Pass
802.11(n) MCS0			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-51.45 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-44.5 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-53.94 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-47.88 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-53.83 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-47.3 dBc	≤ -20 dBc	Pass
802.11(n) MCS7			
Low Channel 2403 MHz	Fundamental	N/A	N/A	N/A
Low Channel 2403 MHz	30 MHz - 12.5 GHz	-55.52 dBc	≤ -20 dBc	Pass
Low Channel 2403 MHz	12.5 GHz - 25 GHz	-48.49 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	Fundamental	N/A	N/A	N/A
Mid Channel 2435 MHz	30 MHz - 12.5 GHz	-54.24 dBc	≤ -20 dBc	Pass
Mid Channel 2435 MHz	12.5 GHz - 25 GHz	-47.52 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	Fundamental	N/A	N/A	N/A
High Channel 2470 MHz	30 MHz - 12.5 GHz	-53.42 dBc	≤ -20 dBc	Pass
High Channel 2470 MHz	12.5 GHz - 25 GHz	-46.95 dBc	≤ -20 dBc	Pass

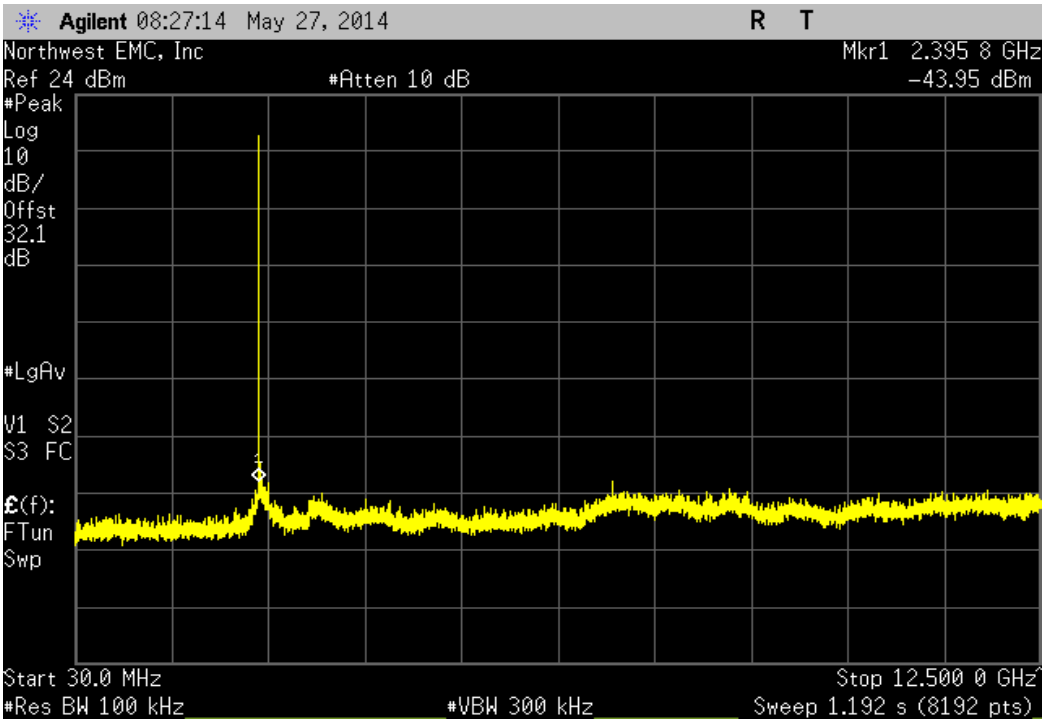
5MHz Bandwidth					
802.11(b) 1 Mbps					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-59.61 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-52.49 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-58.52 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-50.83 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-57.19 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-51.18 dBc	≤ -20 dBc	Pass
802.11(b) 11 Mbps					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-62.8 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-55.75 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-60.83 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-53.82 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-61.53 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-54.2 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-52.64 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-46.62 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-52.48 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-45.84 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-52.05 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-44.66 dBc	≤ -20 dBc	Pass
802.11(g) 36 Mbps					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-54.14 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-47.62 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-51.34 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-45.86 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-51.78 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-44.2 dBc	≤ -20 dBc	Pass
802.11(g) 54 Mbps					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-53.45 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-46 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-52.9 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-45.82 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-52.1 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-44.17 dBc	≤ -20 dBc	Pass
802.11(n) MCS0					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-53.6 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-46.21 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-51.78 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-44.78 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-51.76 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-45.11 dBc	≤ -20 dBc	Pass
802.11(n) MCS7					
	Low Channel 2406 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2406 MHz	30 MHz - 12.5 GHz	-53.37 dBc	≤ -20 dBc	Pass
	Low Channel 2406 MHz	12.5 GHz - 25 GHz	-45.21 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2436 MHz	30 MHz - 12.5 GHz	-51.39 dBc	≤ -20 dBc	Pass
	Mid Channel 2436 MHz	12.5 GHz - 25 GHz	-43.73 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2466 MHz	30 MHz - 12.5 GHz	-49.88 dBc	≤ -20 dBc	Pass
	High Channel 2466 MHz	12.5 GHz - 25 GHz	-44.28 dBc	≤ -20 dBc	Pass
10MHz Bandwidth					
802.11(b) 1 Mbps					
	Low Channel 2409 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2409 MHz	30 MHz - 12.5 GHz	-56.79 dBc	≤ -20 dBc	Pass
	Low Channel 2409 MHz	12.5 GHz - 25 GHz	-51.41 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2439 MHz	30 MHz - 12.5 GHz	-56.8 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	12.5 GHz - 25 GHz	-49.71 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2464 MHz	30 MHz - 12.5 GHz	-56.09 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	12.5 GHz - 25 GHz	-48.87 dBc	≤ -20 dBc	Pass
802.11(g) 6 Mbps					
	Low Channel 2409 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2409 MHz	30 MHz - 12.5 GHz	-56.34 dBc	≤ -20 dBc	Pass
	Low Channel 2409 MHz	12.5 GHz - 25 GHz	-50.95 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2439 MHz	30 MHz - 12.5 GHz	-55.15 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	12.5 GHz - 25 GHz	-48.86 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2464 MHz	30 MHz - 12.5 GHz	-54.07 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	12.5 GHz - 25 GHz	-48.7 dBc	≤ -20 dBc	Pass
802.11(n) MCS7					
	Low Channel 2409 MHz	Fundamental	N/A	N/A	N/A
	Low Channel 2409 MHz	30 MHz - 12.5 GHz	-55.75 dBc	≤ -20 dBc	Pass
	Low Channel 2409 MHz	12.5 GHz - 25 GHz	-50.79 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	Fundamental	N/A	N/A	N/A
	Mid Channel 2439 MHz	30 MHz - 12.5 GHz	-56.7 dBc	≤ -20 dBc	Pass
	Mid Channel 2439 MHz	12.5 GHz - 25 GHz	-49.32 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	Fundamental	N/A	N/A	N/A
	High Channel 2464 MHz	30 MHz - 12.5 GHz	-56.49 dBc	≤ -20 dBc	Pass
	High Channel 2464 MHz	12.5 GHz - 25 GHz	-49.34 dBc	≤ -20 dBc	Pass

SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

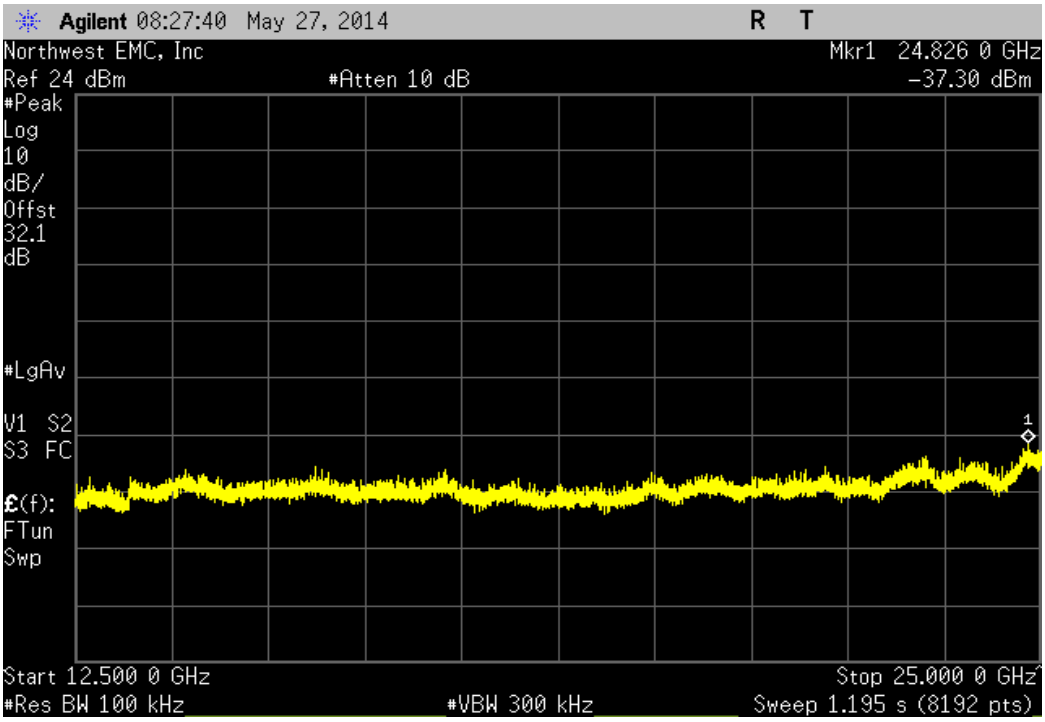


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-60.16 dBc	≤ -20 dBc	Pass

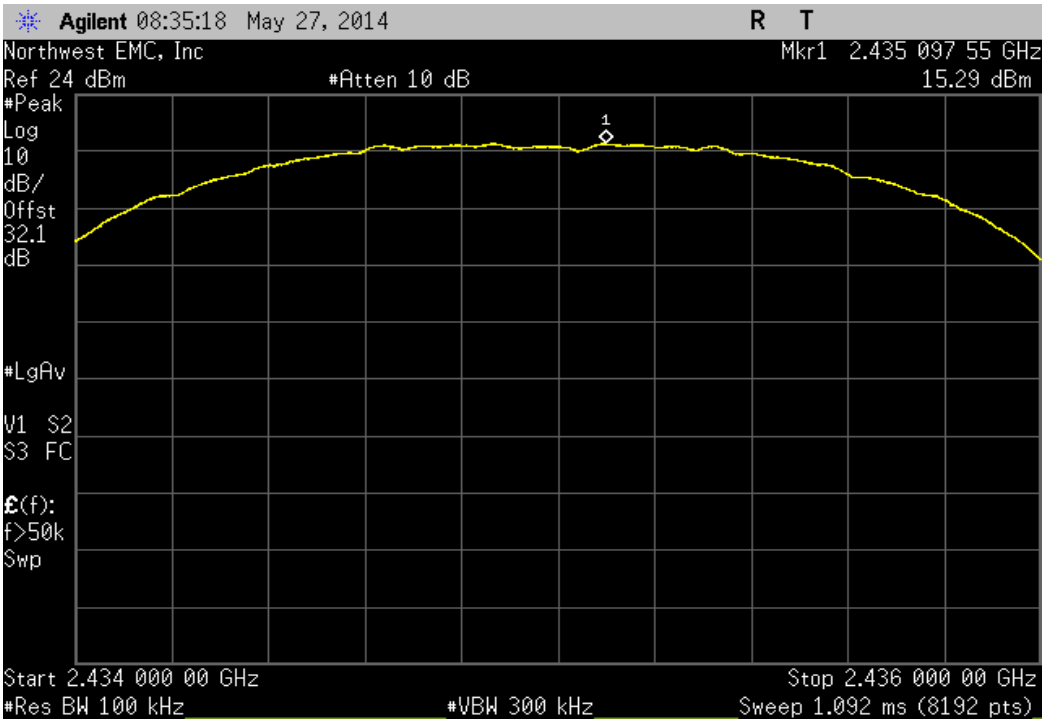


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.51 dBc	≤ -20 dBc	Pass

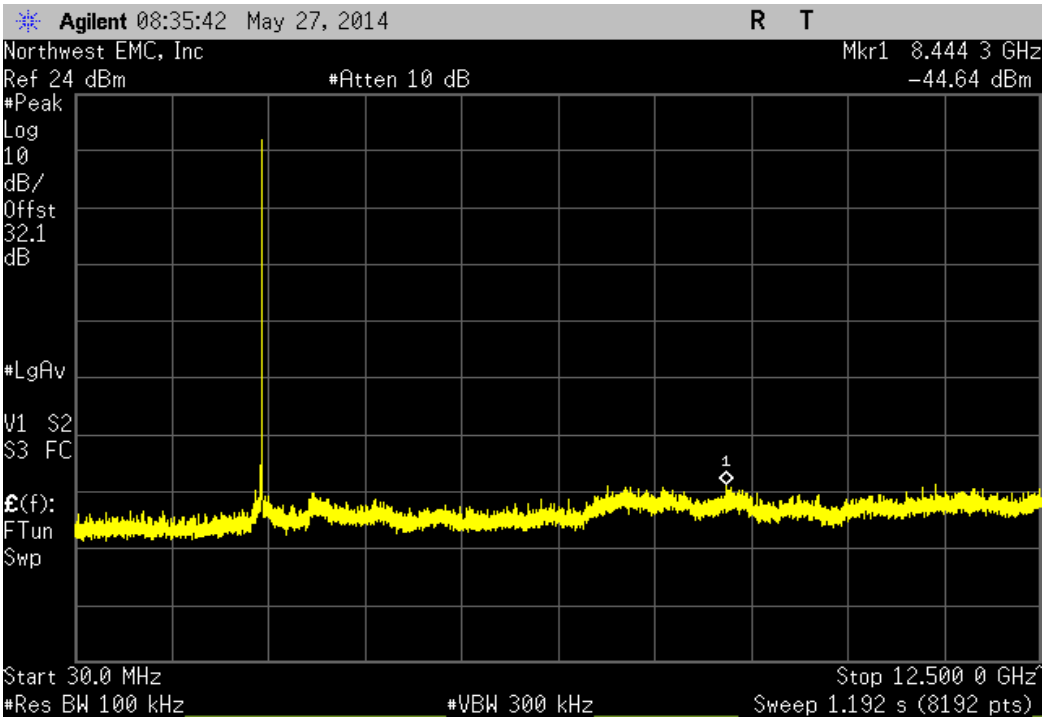


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

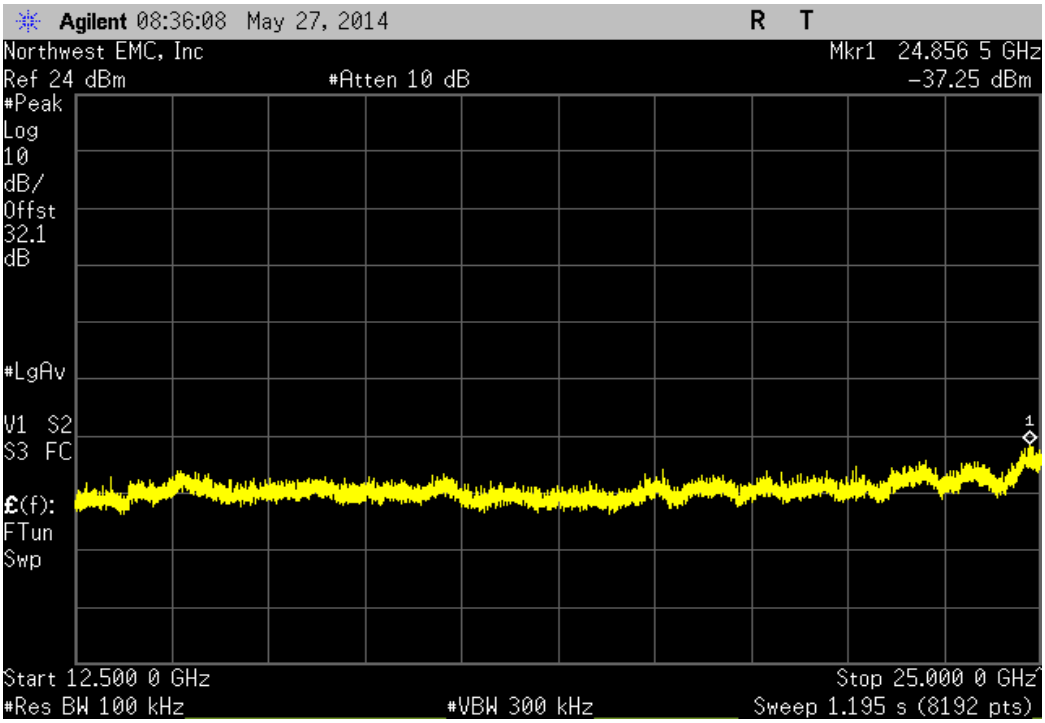


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.93 dBc	≤ -20 dBc	Pass

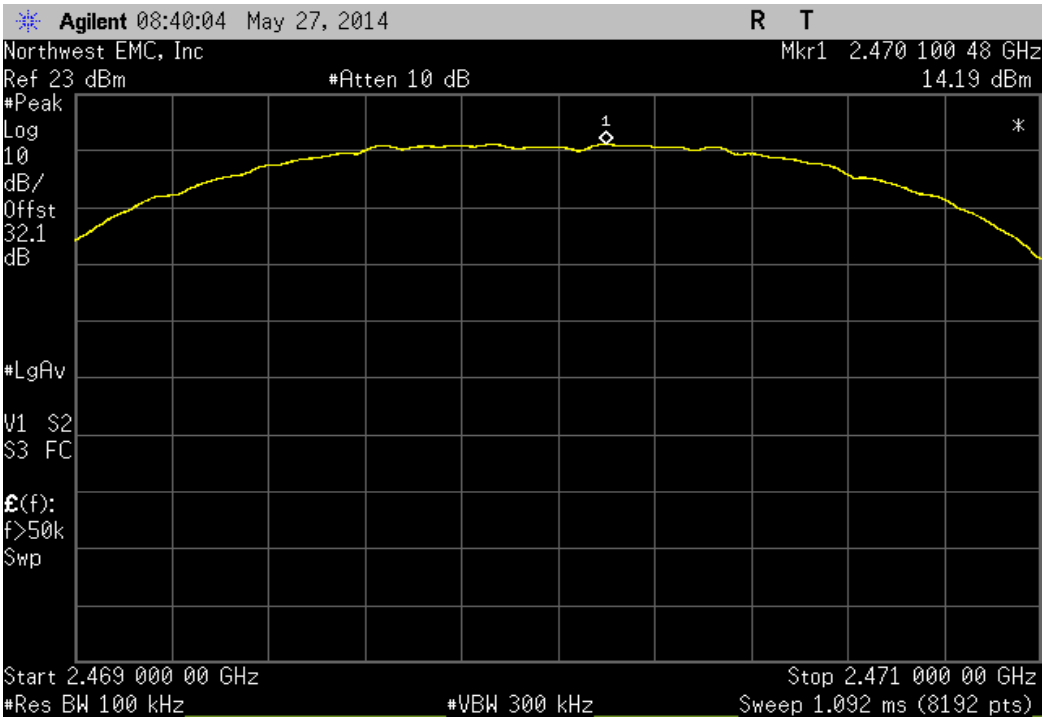


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-52.54 dBc	≤ -20 dBc	Pass

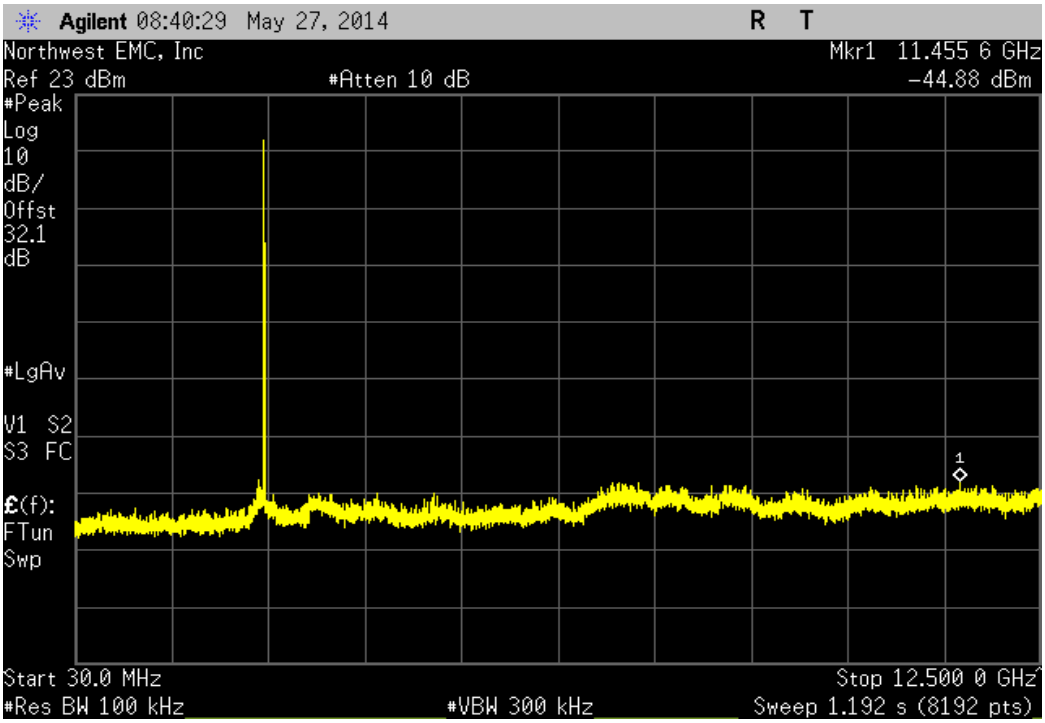


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

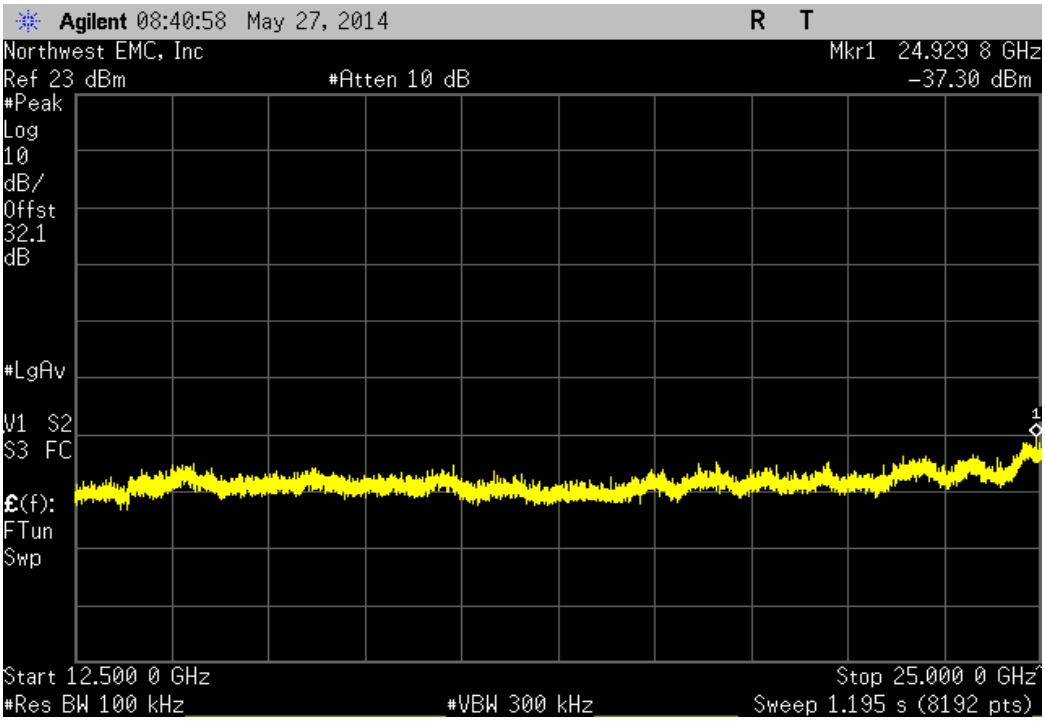


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.08 dBc	≤ -20 dBc	Pass

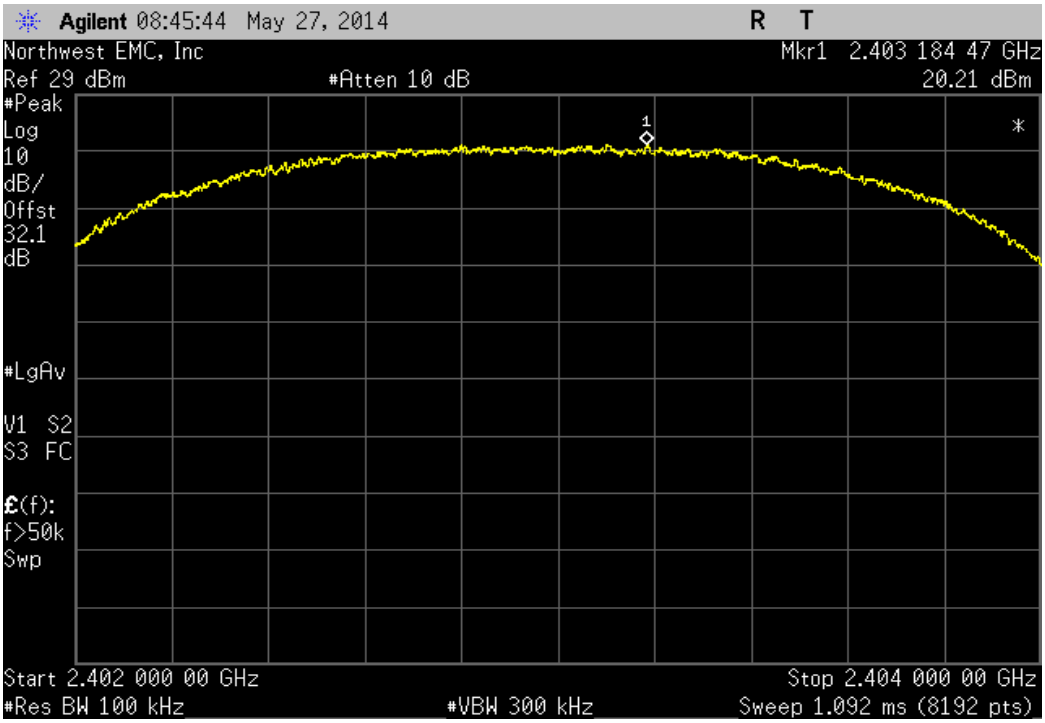


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.5 dBc	≤ -20 dBc	Pass

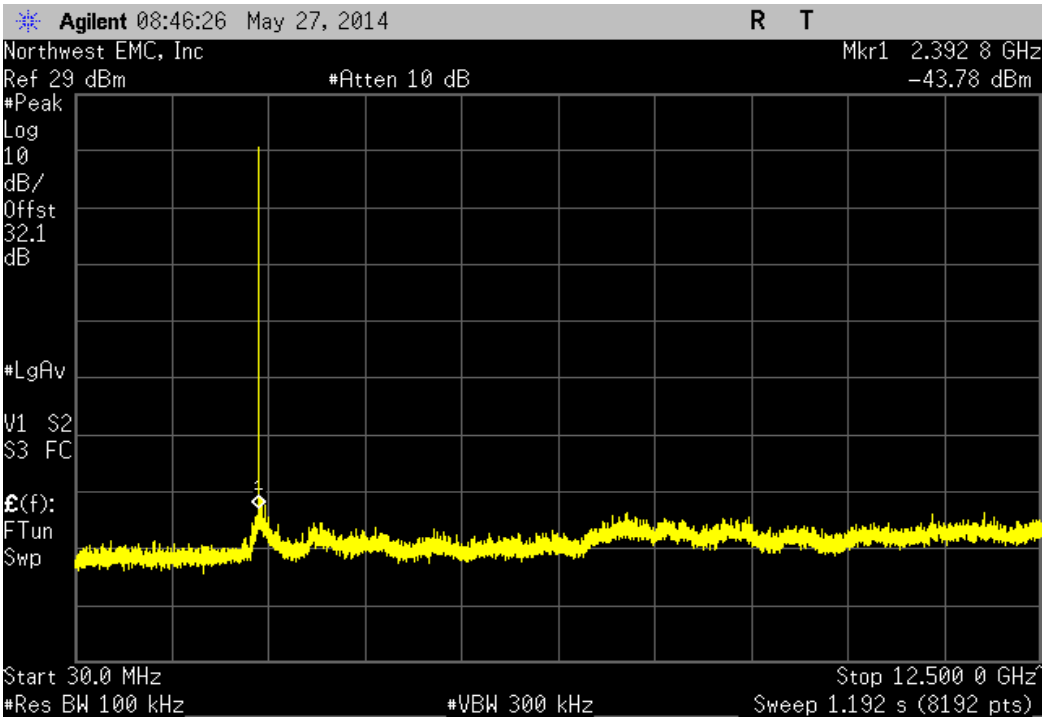


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

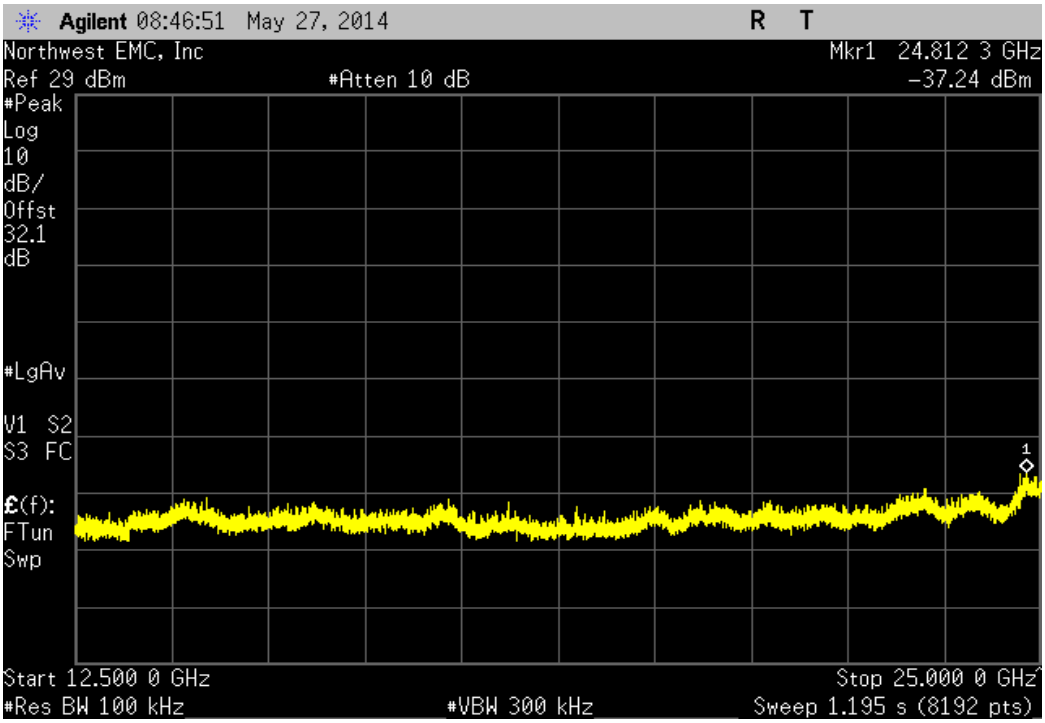


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-63.99 dBc	≤ -20 dBc	Pass

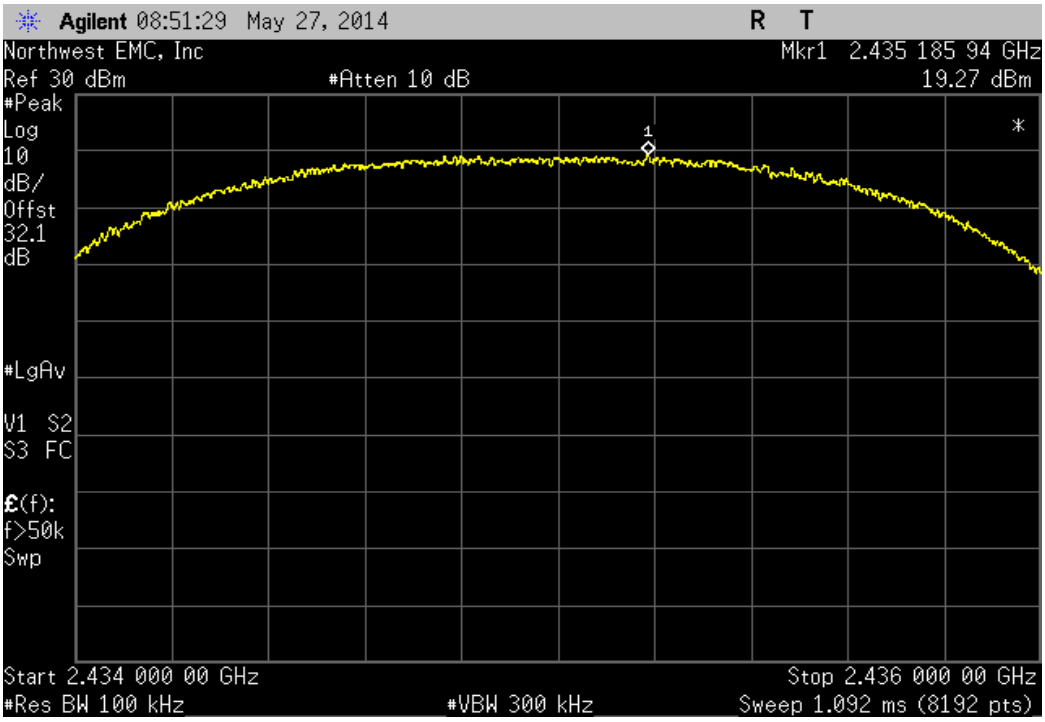


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-57.45 dBc	≤ -20 dBc	Pass

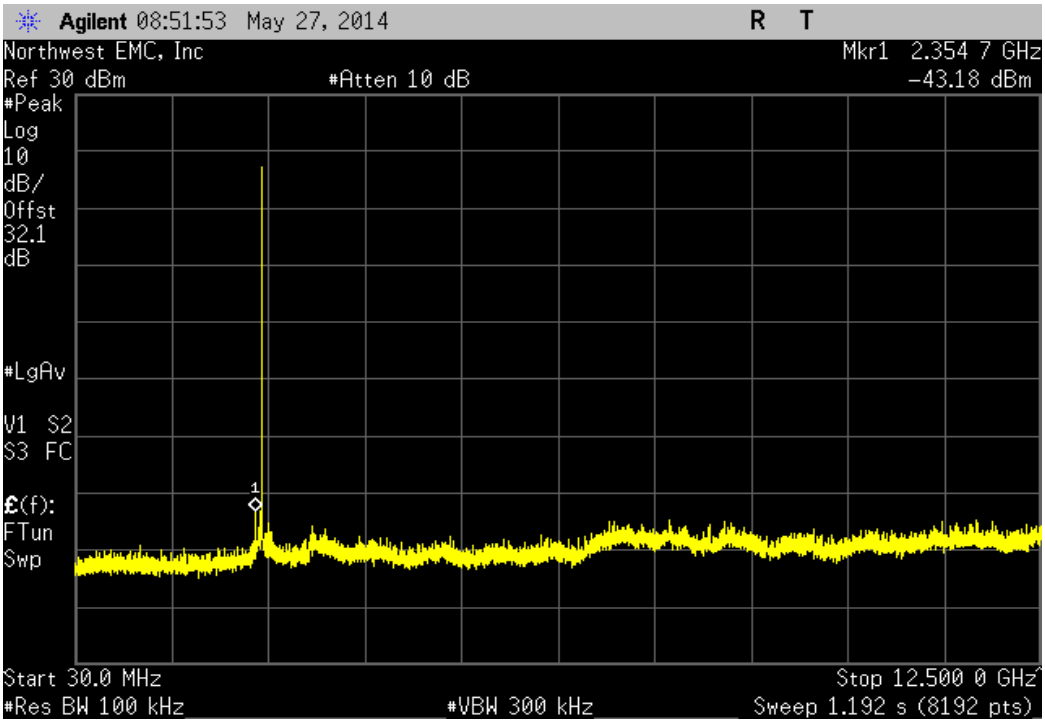


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

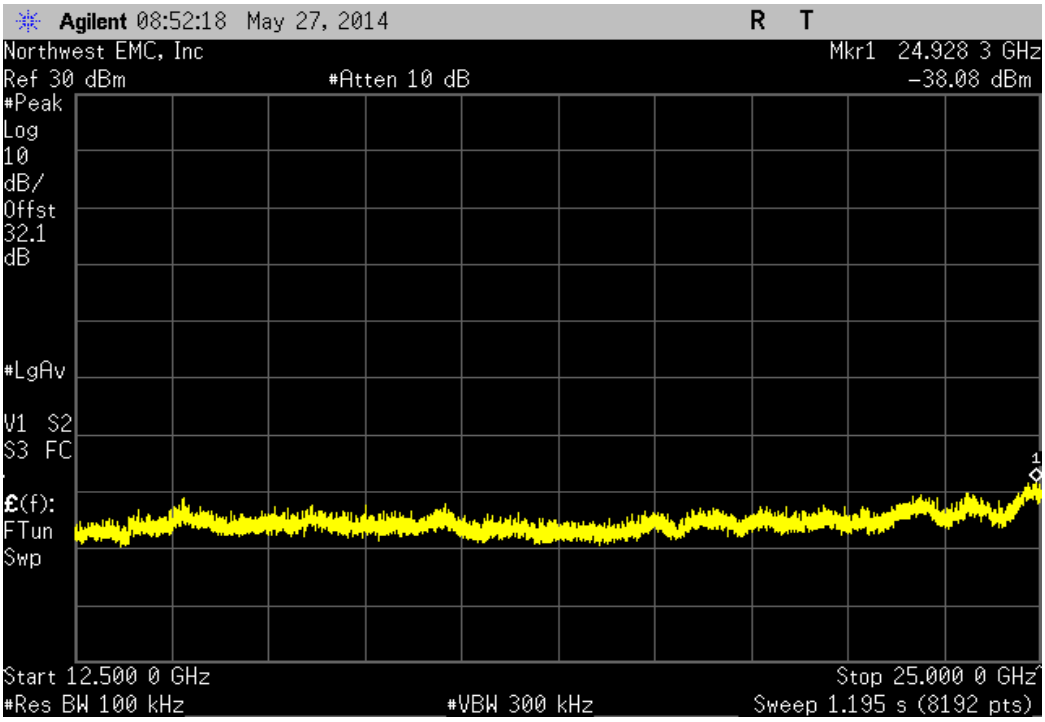


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-62.45 dBc	≤ -20 dBc	Pass

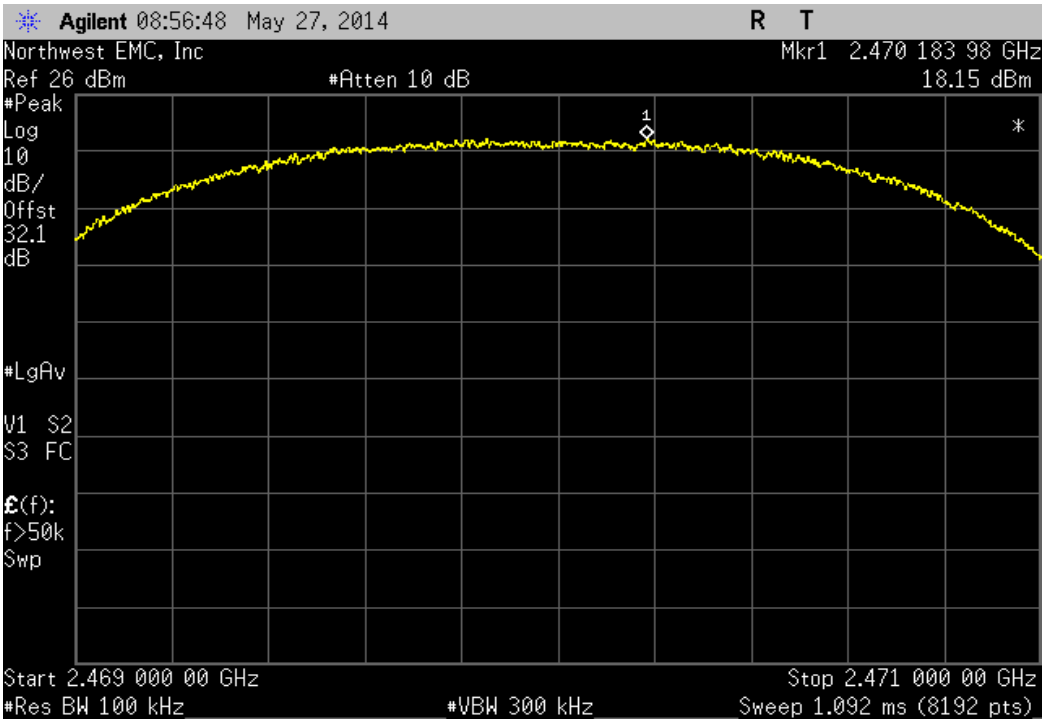


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-57.35 dBc	≤ -20 dBc	Pass

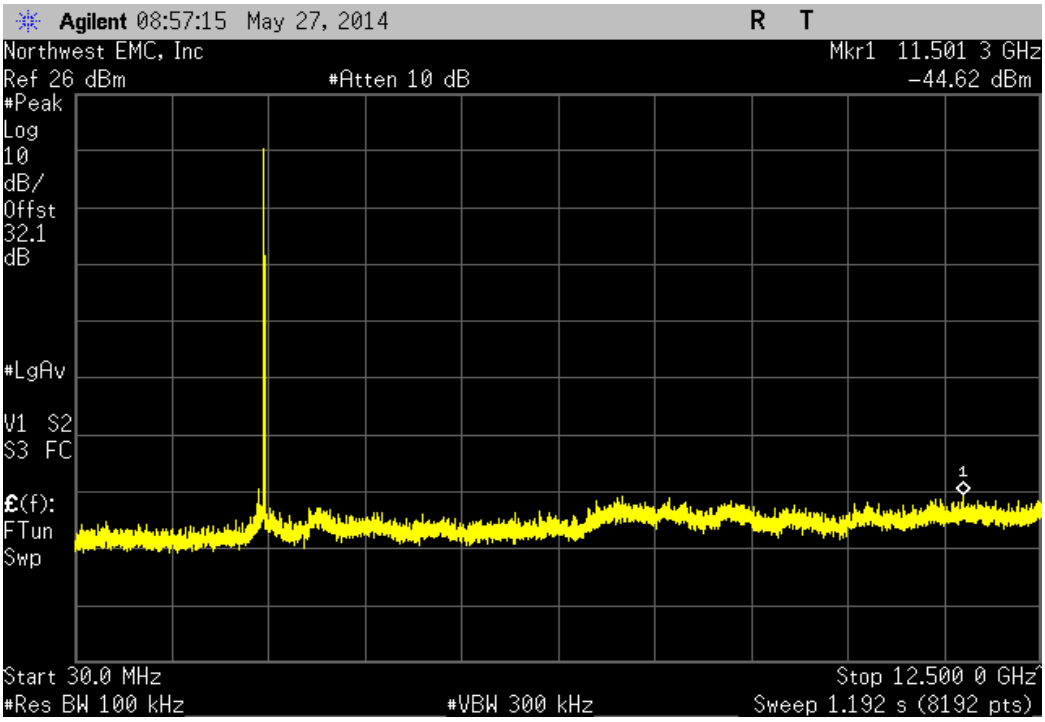


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
	Fundamental	N/A	N/A	N/A

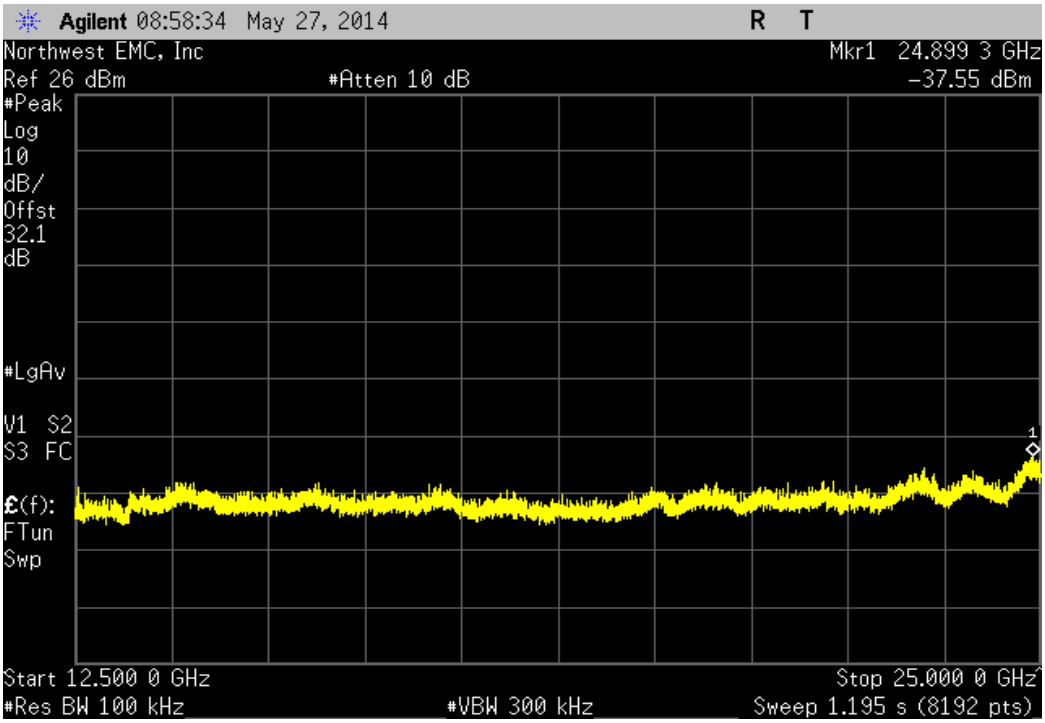


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-62.77 dBc	≤ -20 dBc	Pass

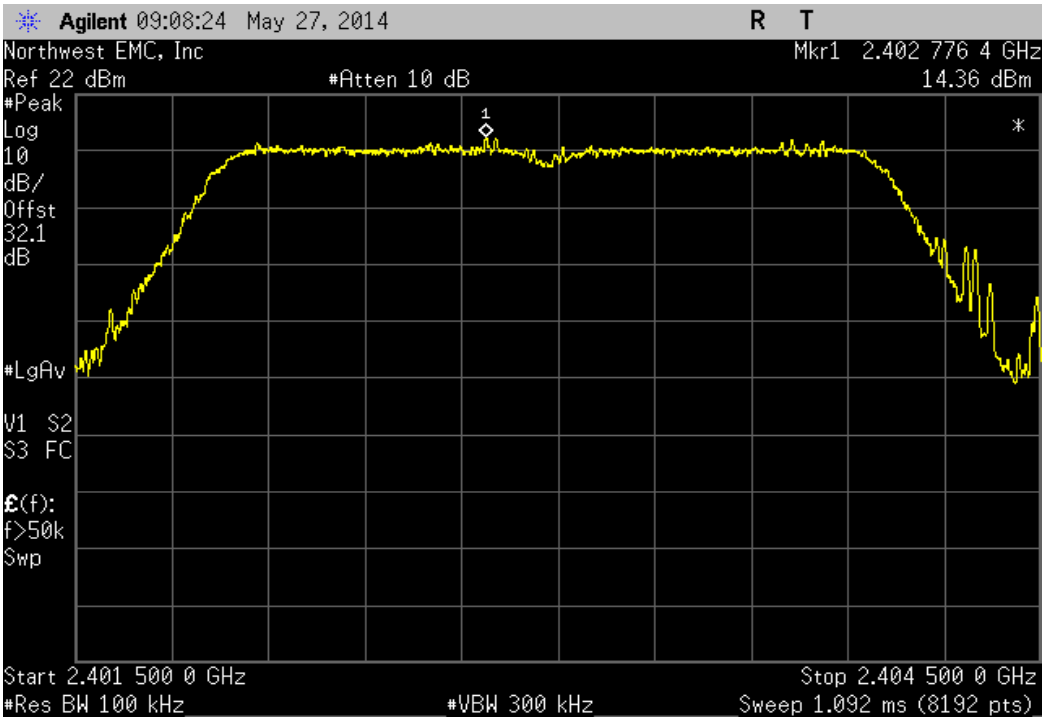


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-55.7 dBc	≤ -20 dBc	Pass

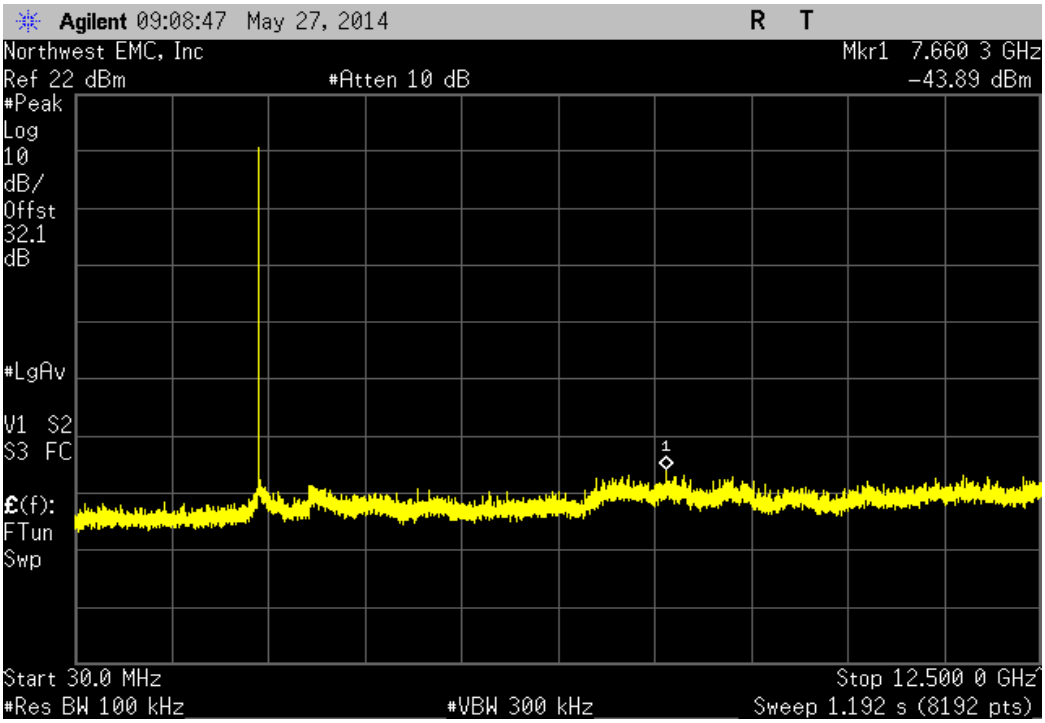


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

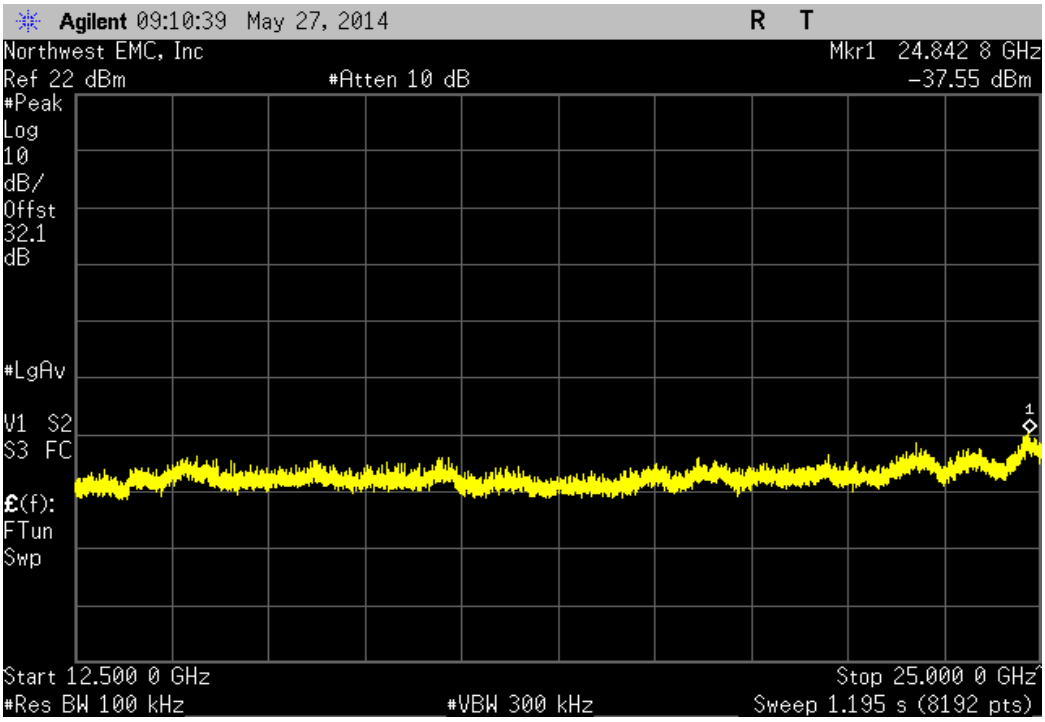


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.25 dBc	≤ -20 dBc	Pass

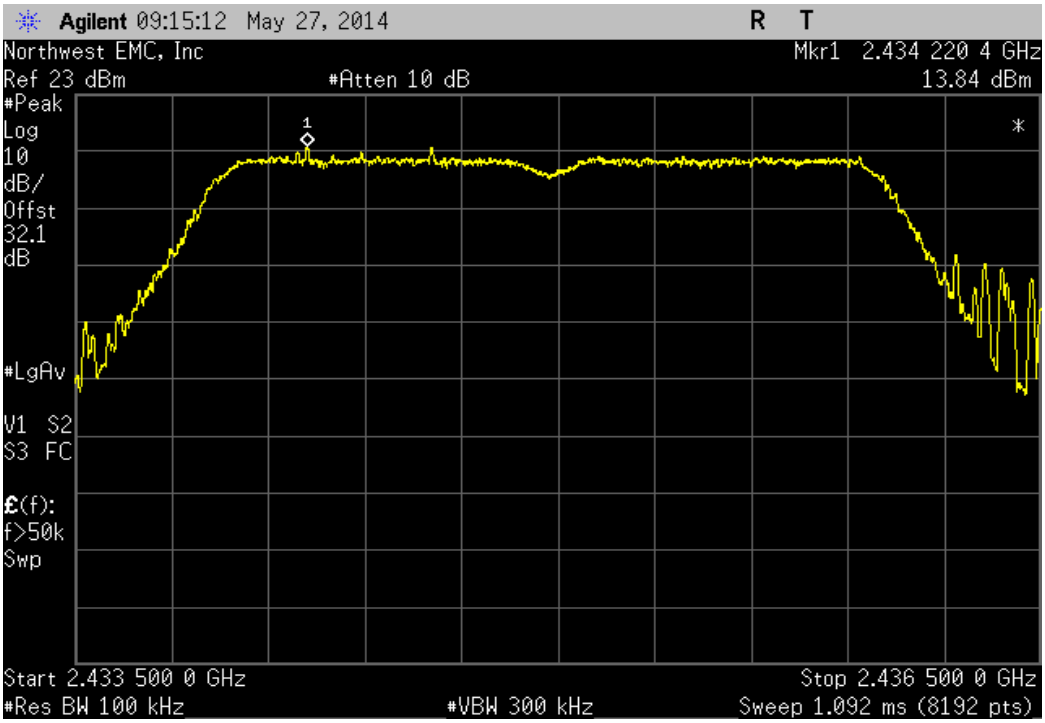


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.91 dBc	≤ -20 dBc	Pass

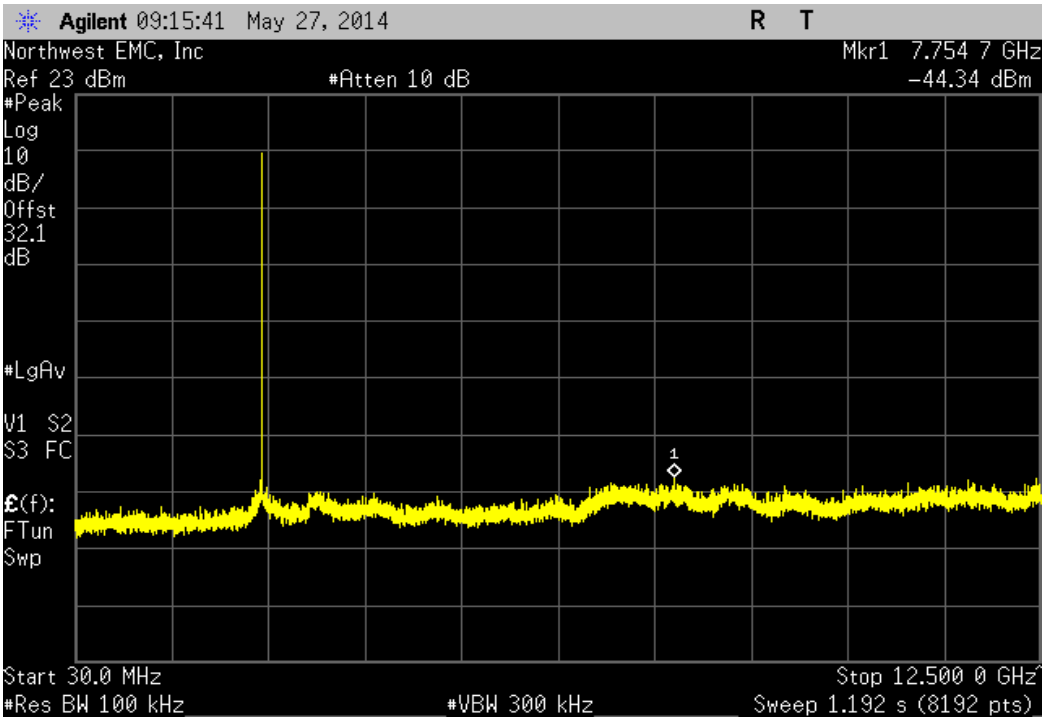


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2435 MHz						
Frequency Range				Value	Limit	Result
	Fundamental			N/A	N/A	N/A

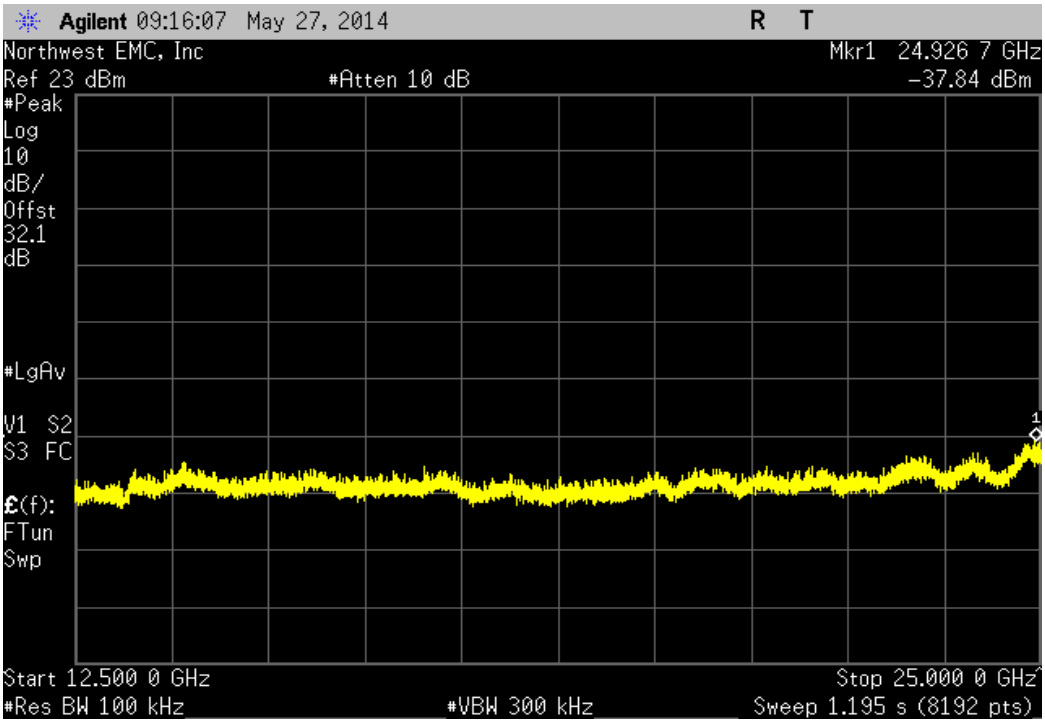


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.18 dBc	≤ -20 dBc	Pass

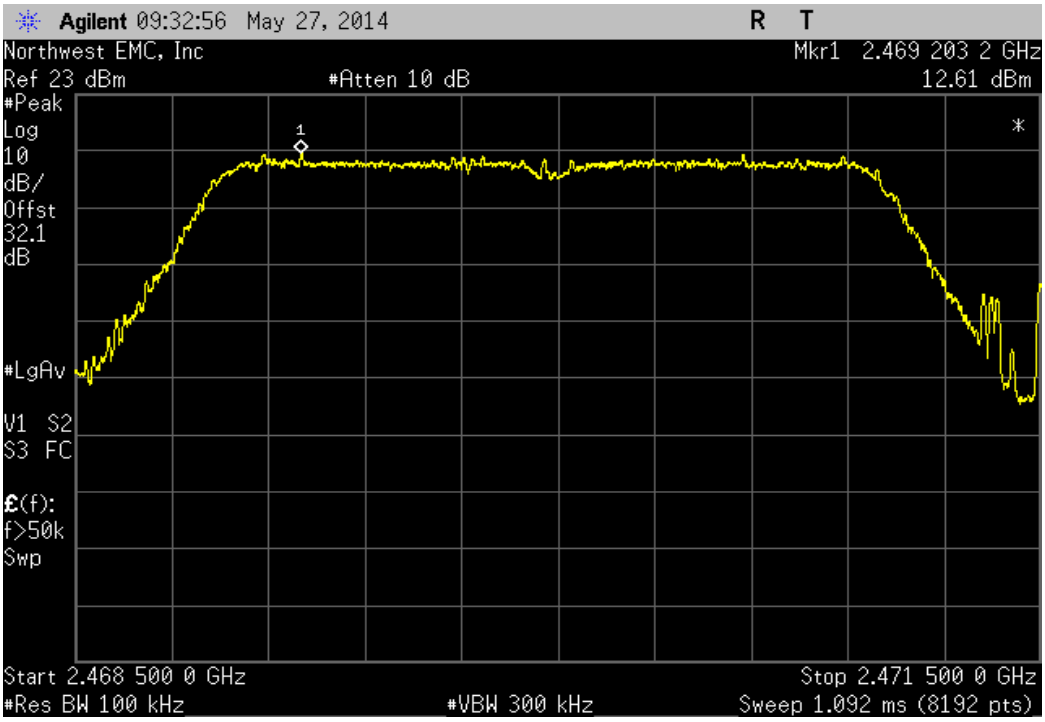


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.68 dBc	≤ -20 dBc	Pass

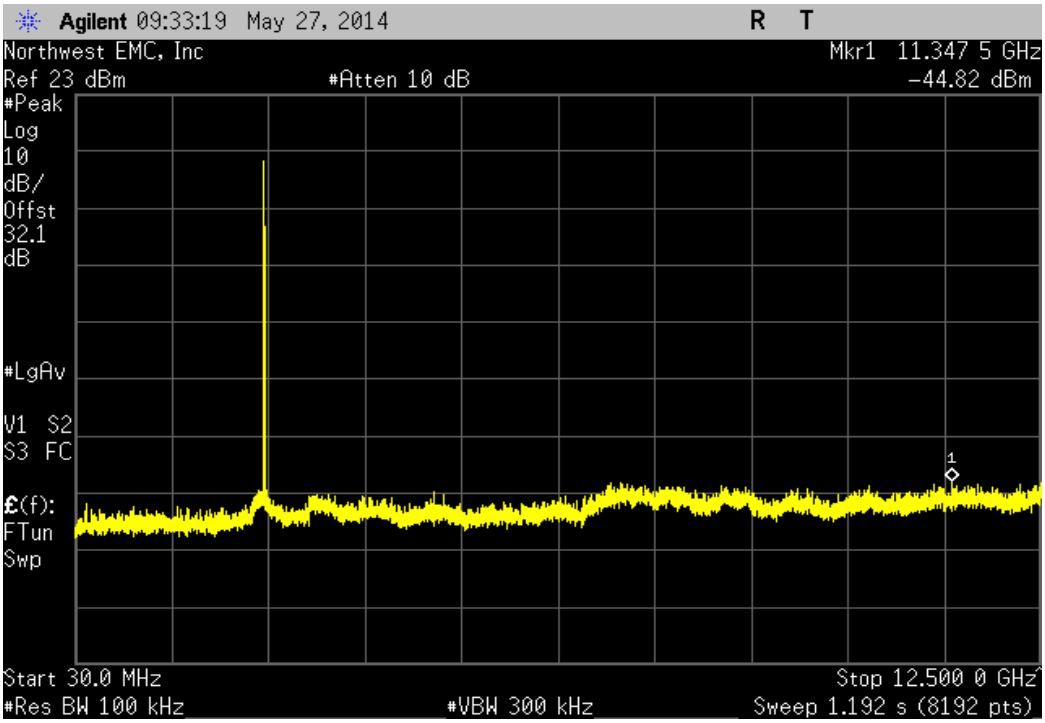


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

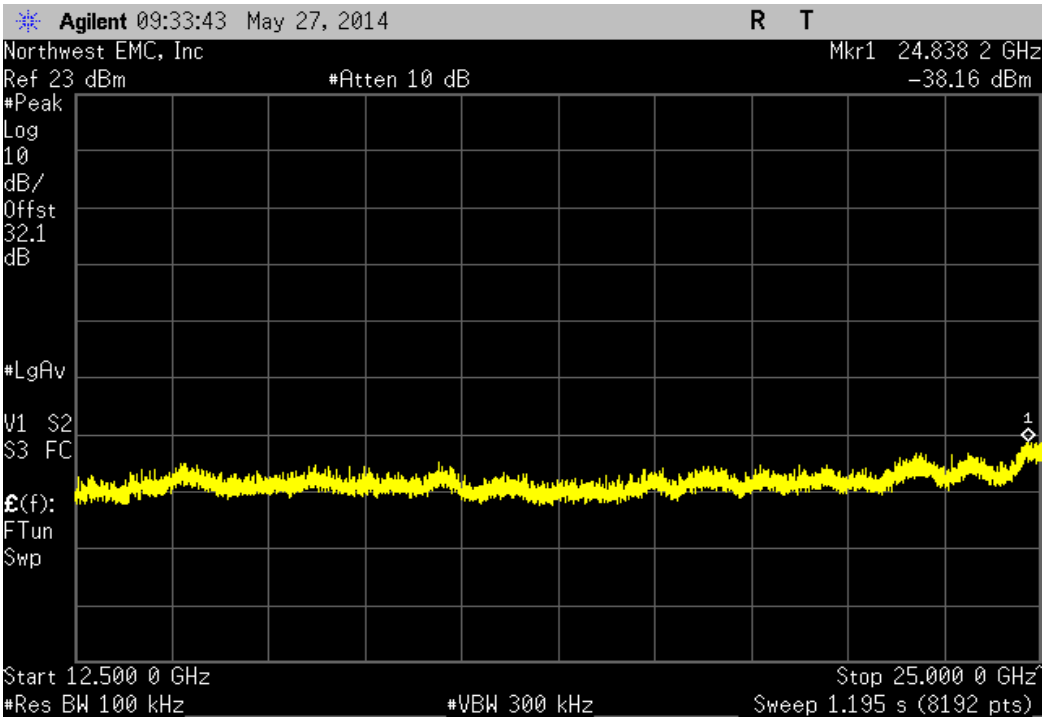


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.43 dBc	≤ -20 dBc	Pass

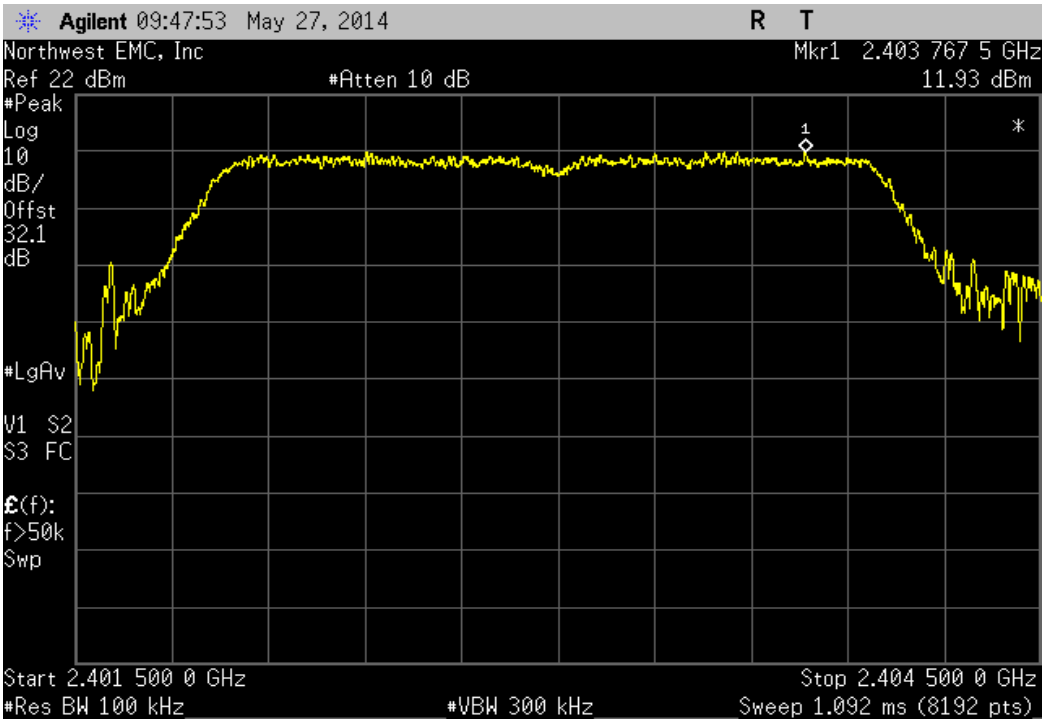


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.77 dBc	≤ -20 dBc	Pass

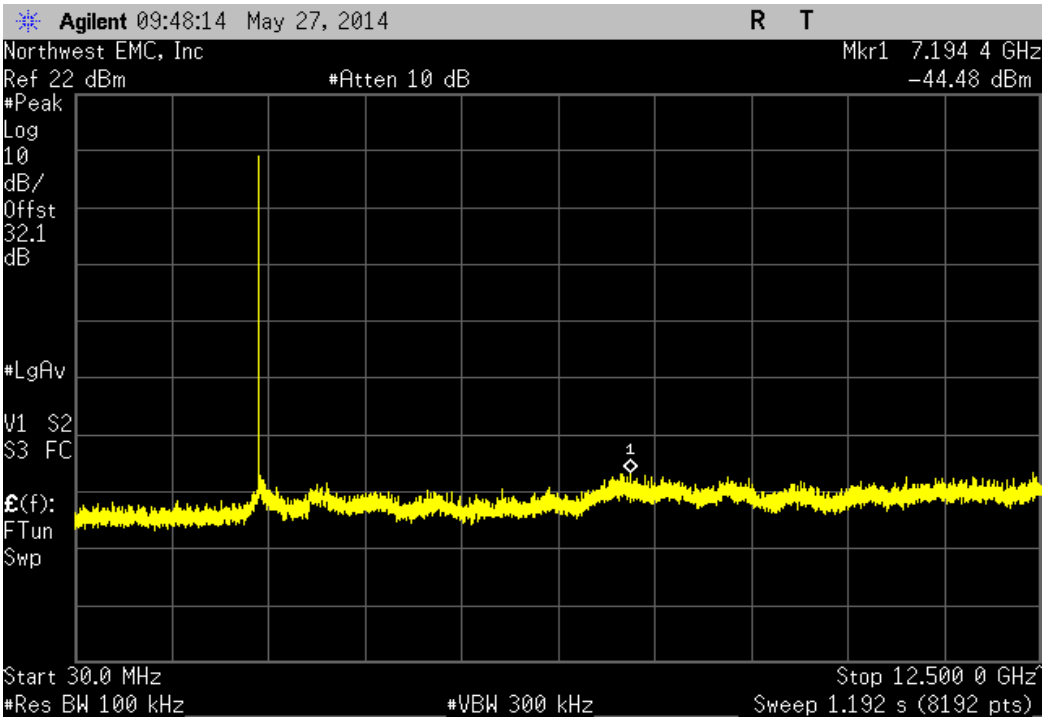


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

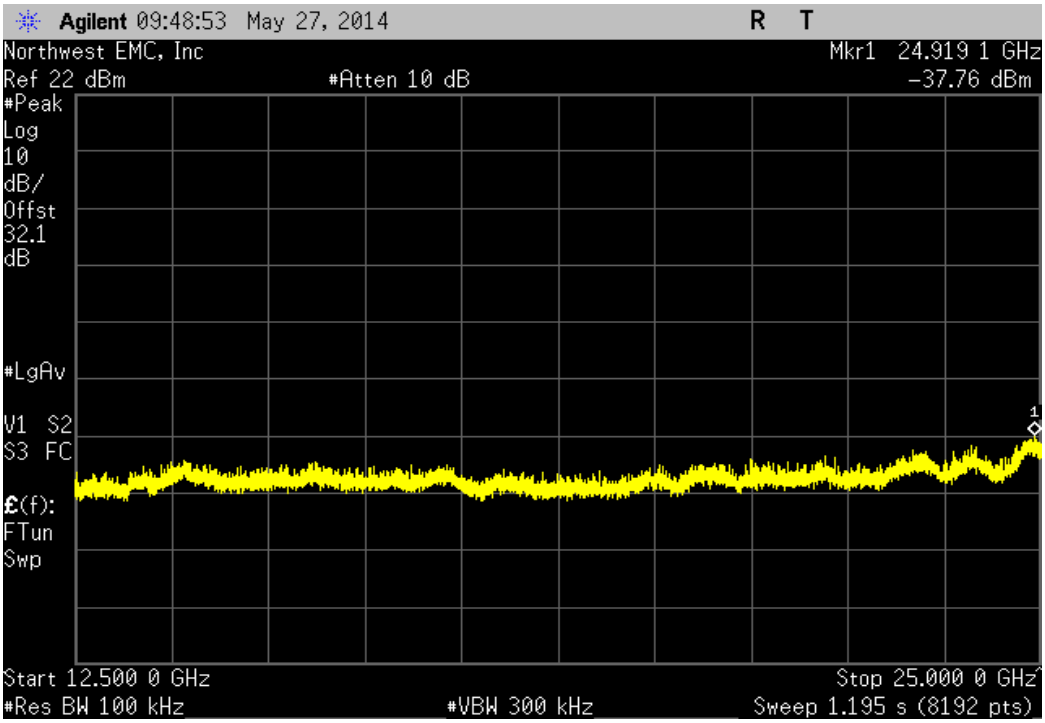


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.41 dBc	≤ -20 dBc	Pass

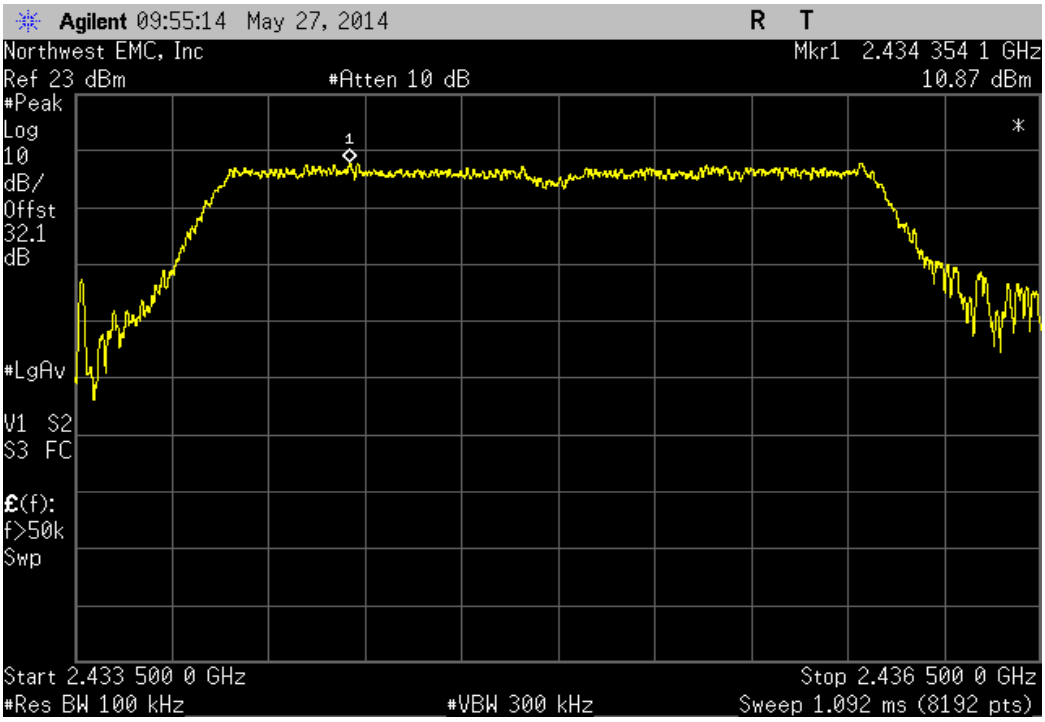


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-49.69 dBc	≤ -20 dBc	Pass

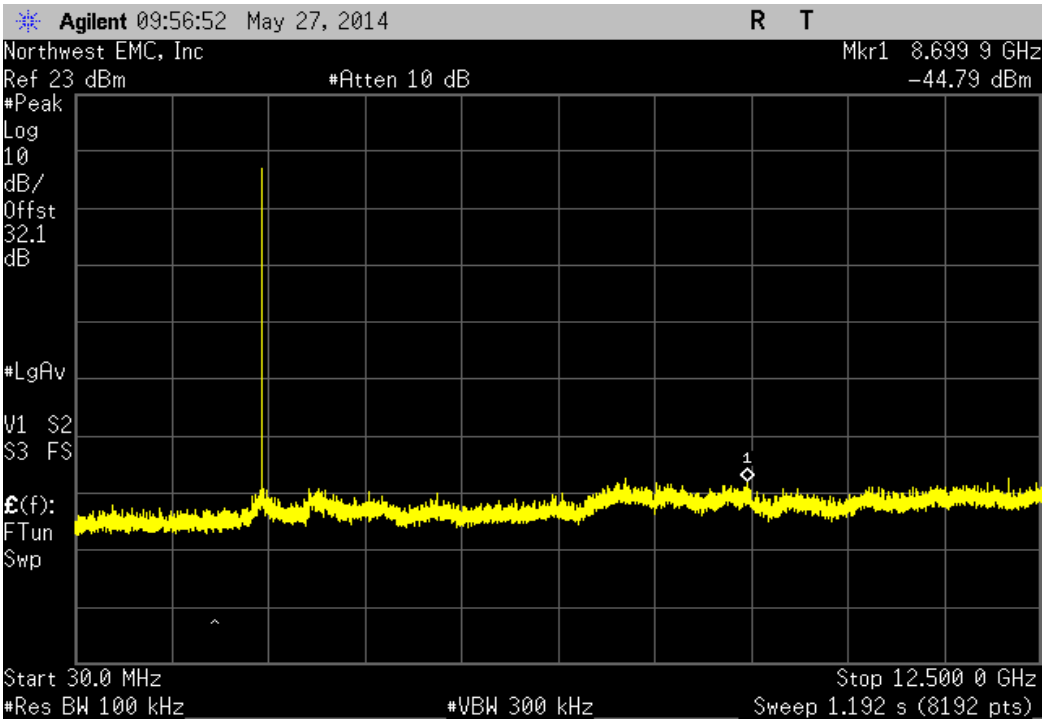


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

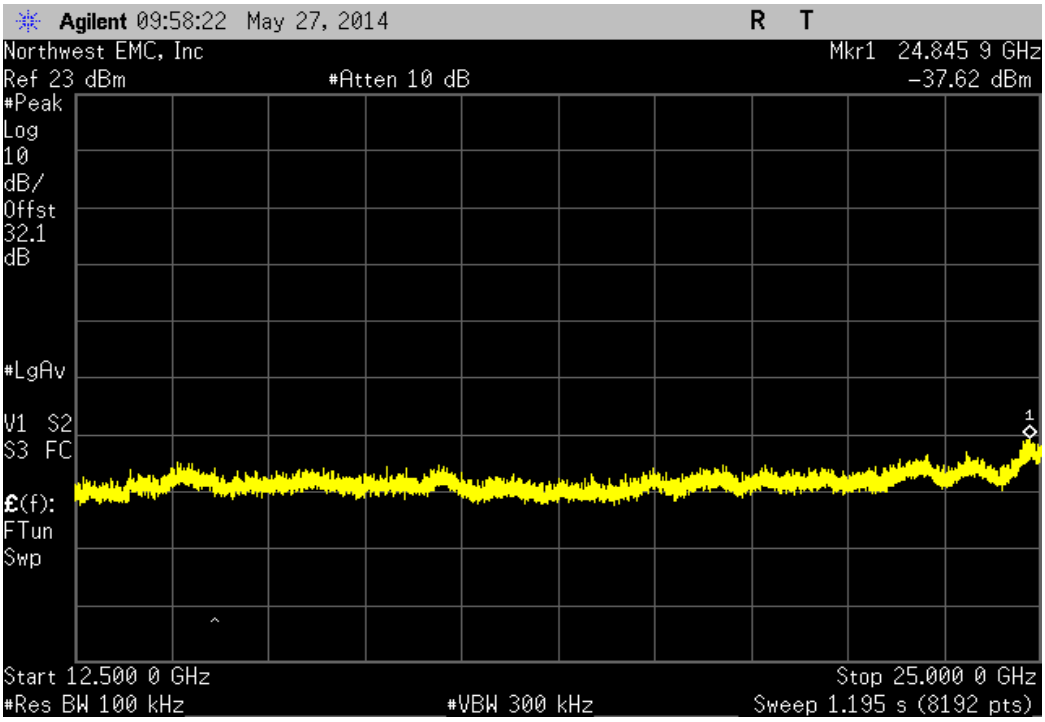


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-55.66 dBc	≤ -20 dBc	Pass

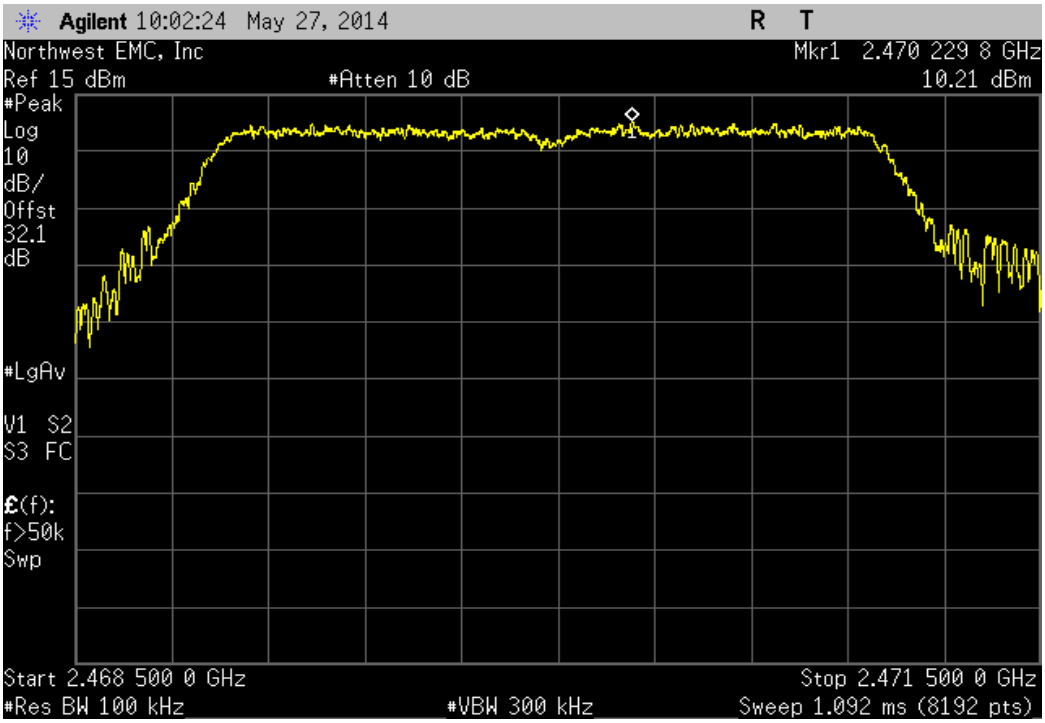


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.5 dBc	≤ -20 dBc	Pass

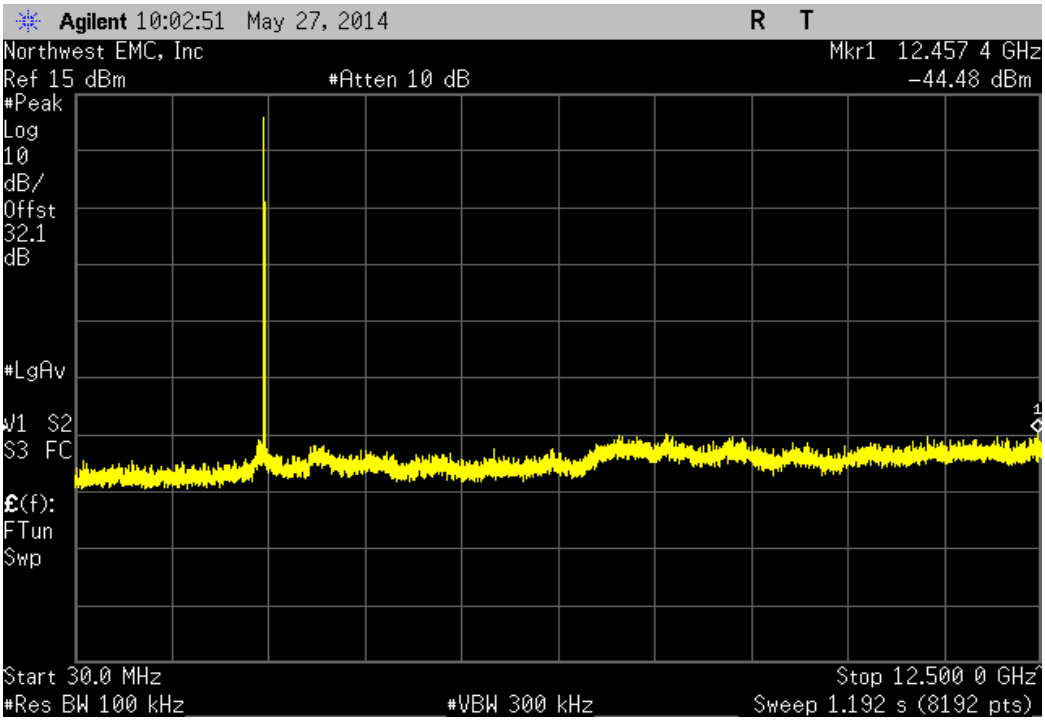


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

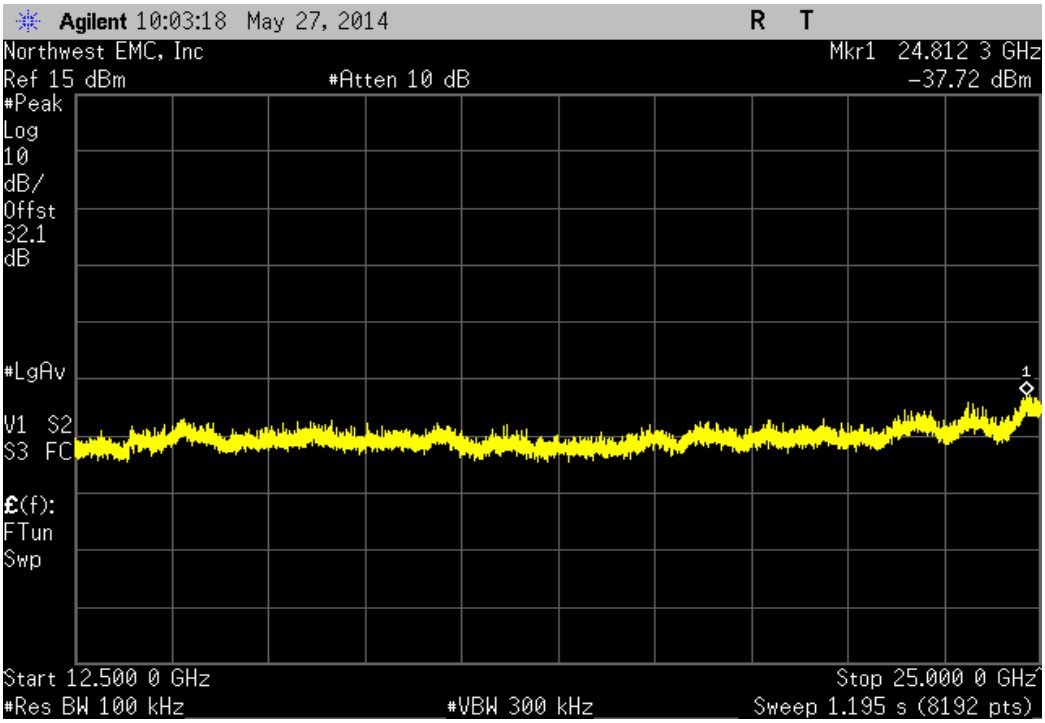


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.69 dBc	≤ -20 dBc	Pass

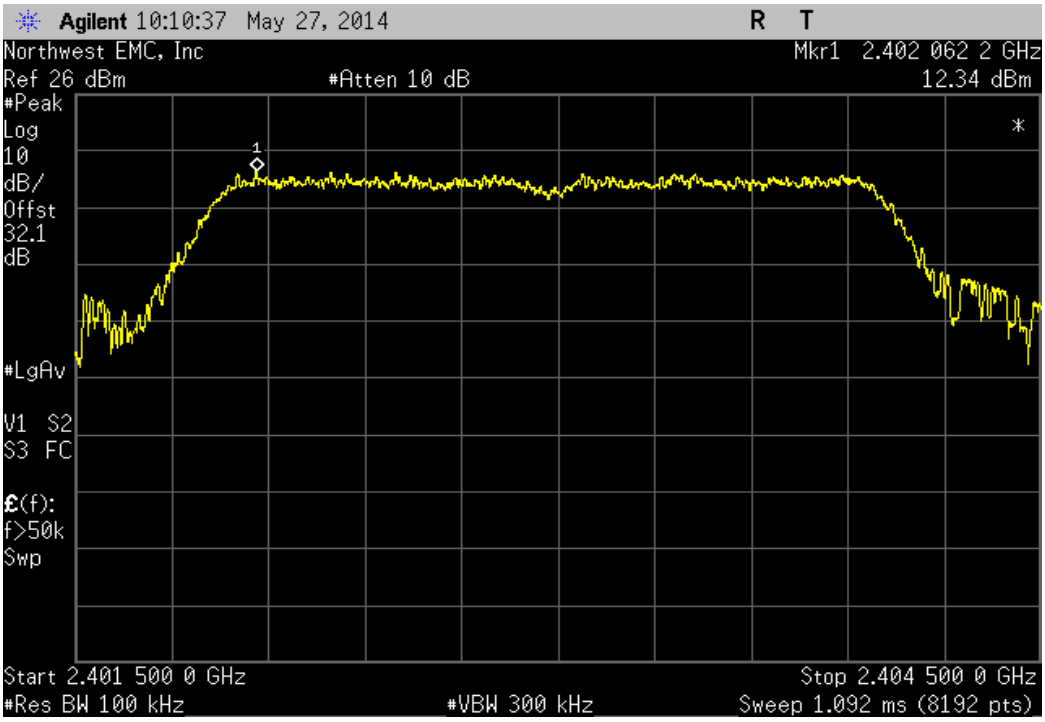


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.93 dBc	≤ -20 dBc	Pass

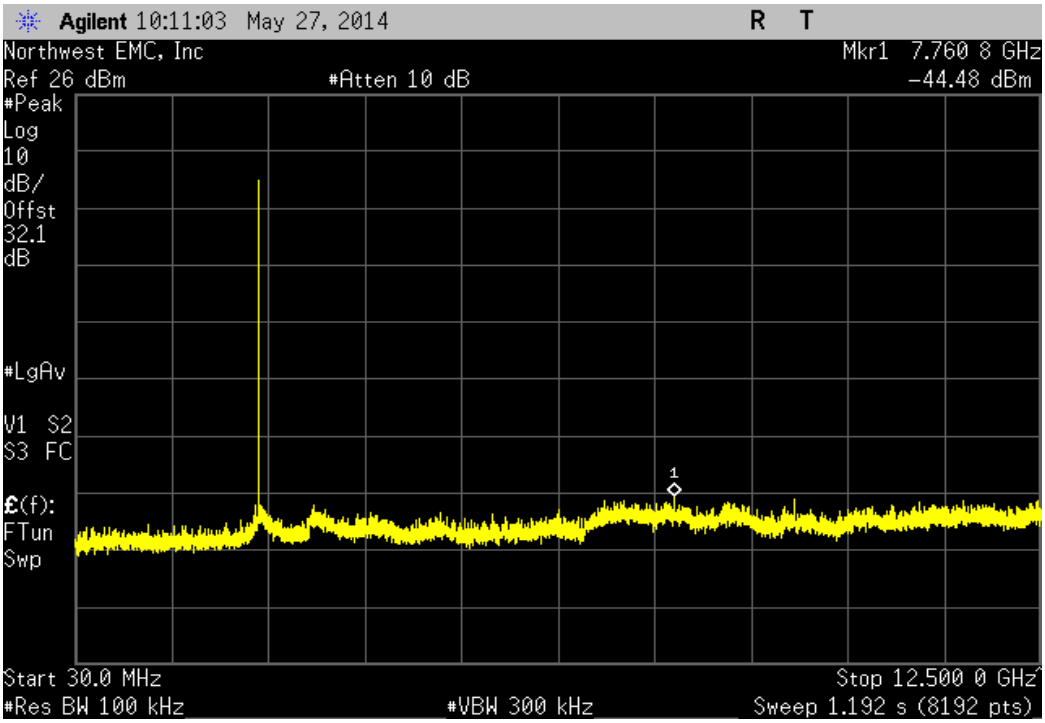


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

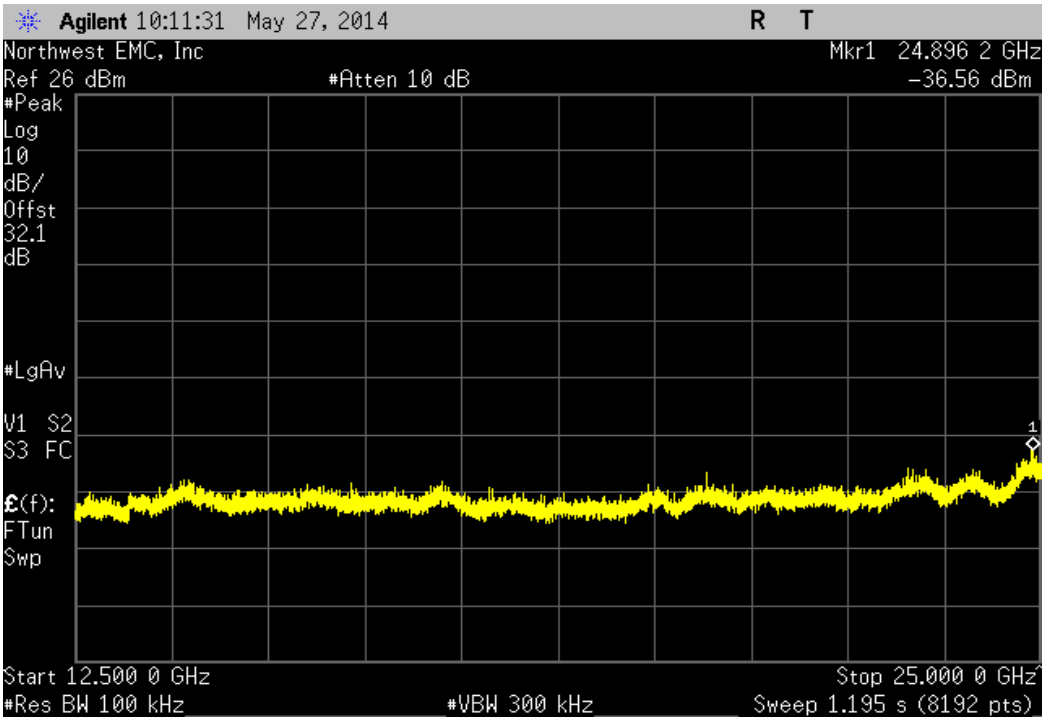


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.82 dBc	≤ -20 dBc	Pass

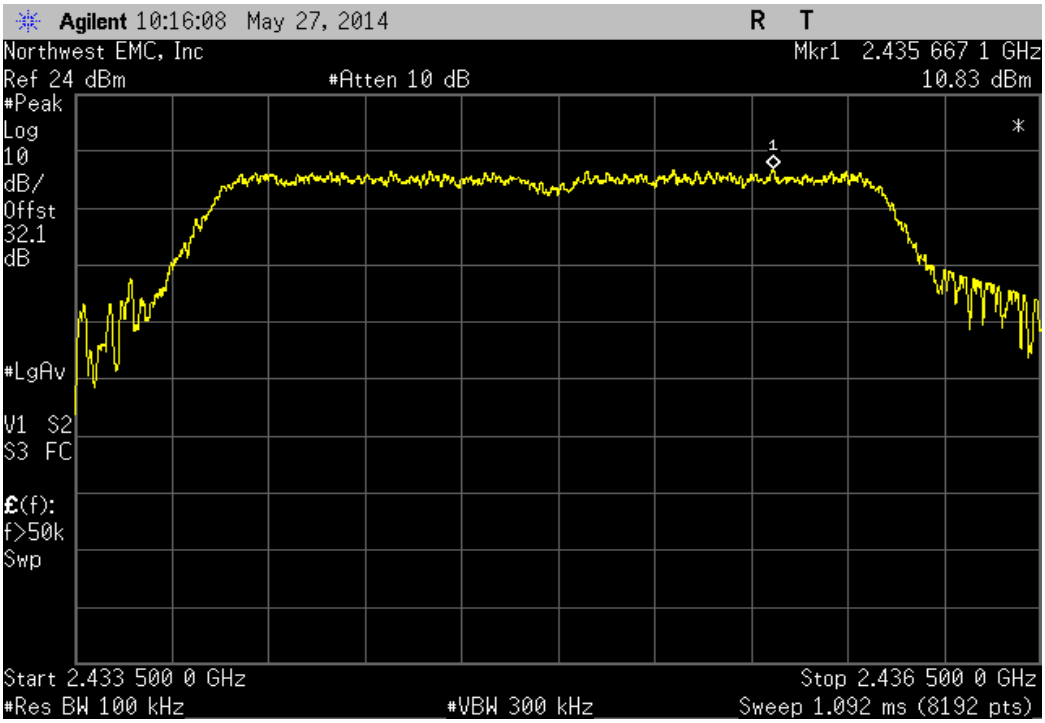


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.9 dBc	≤ -20 dBc	Pass

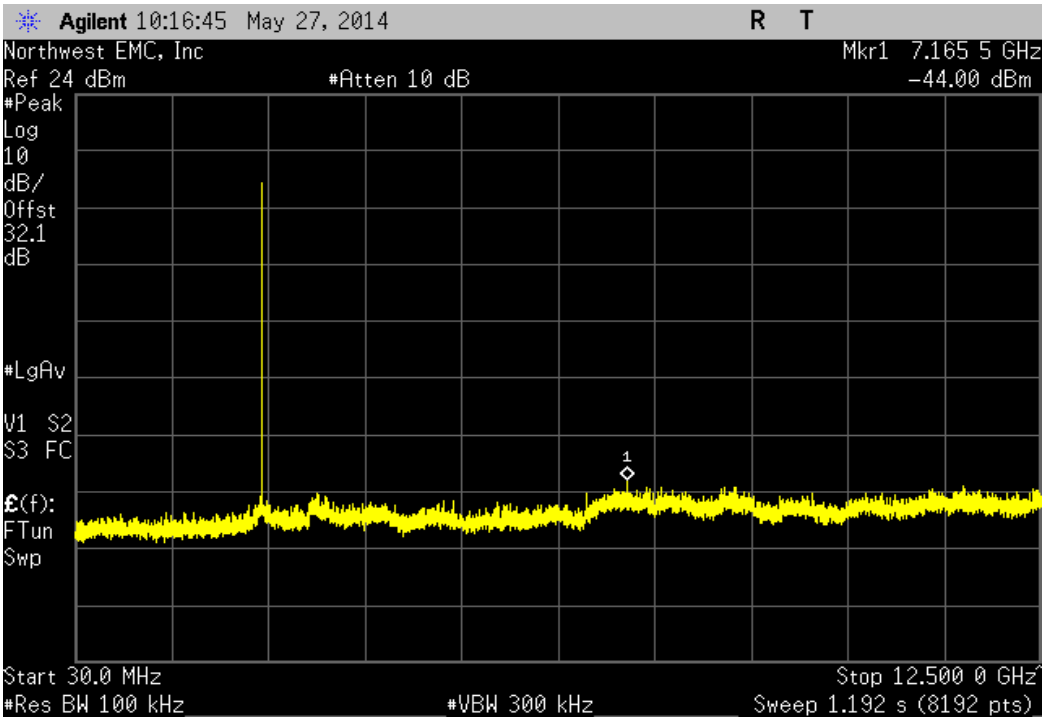


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

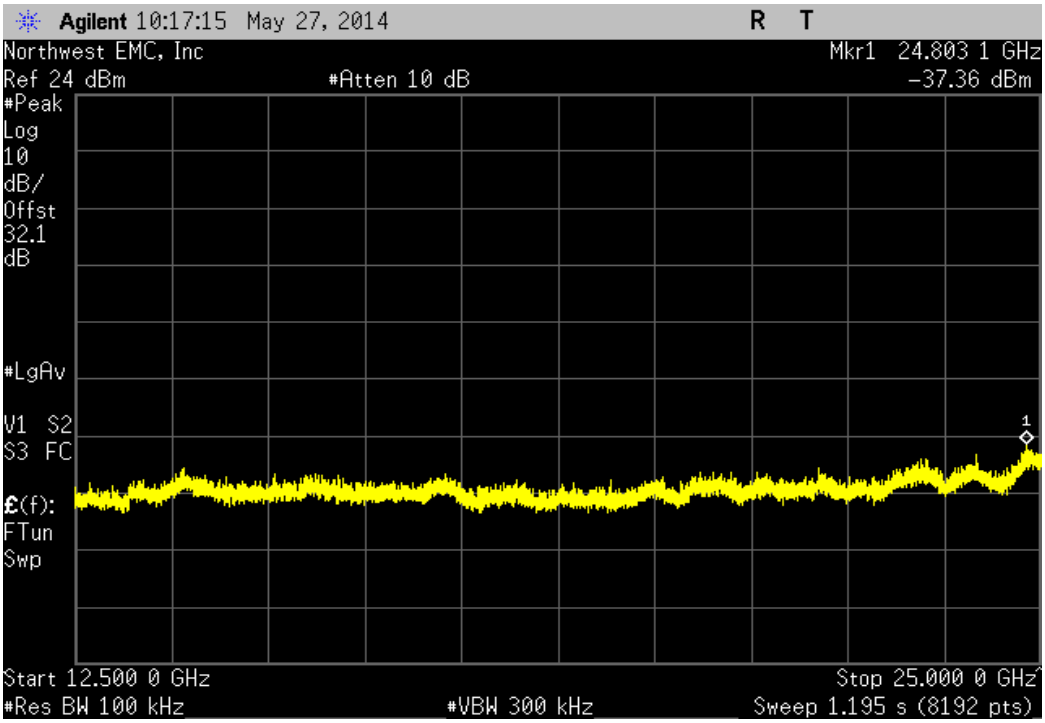


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.83 dBc	≤ -20 dBc	Pass

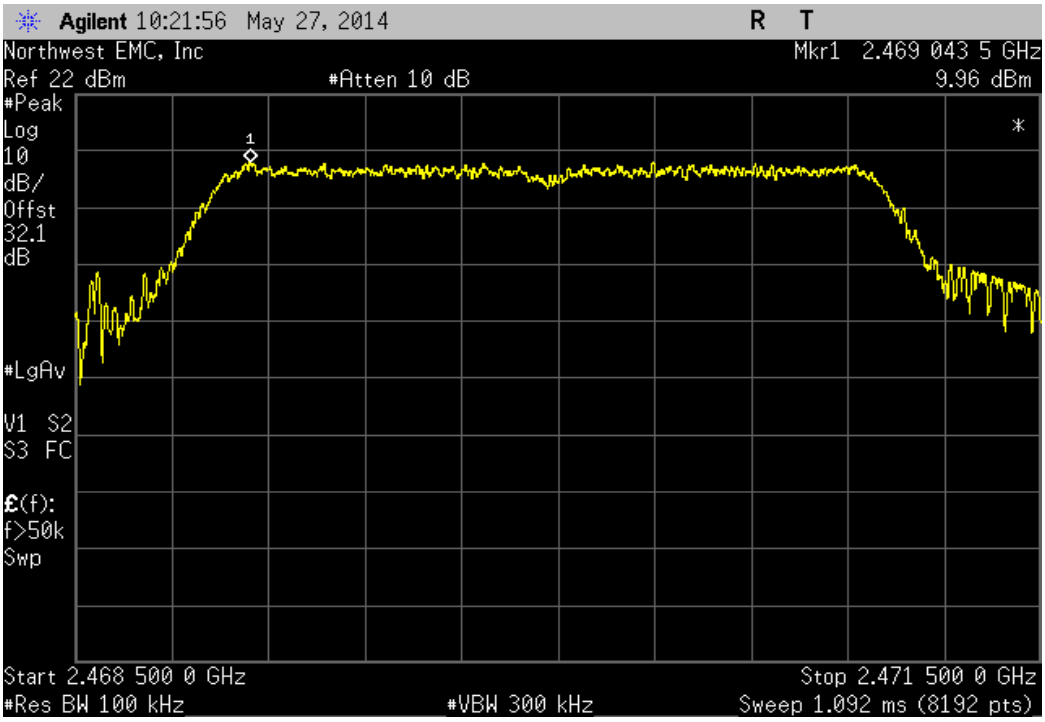


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.19 dBc	≤ -20 dBc	Pass

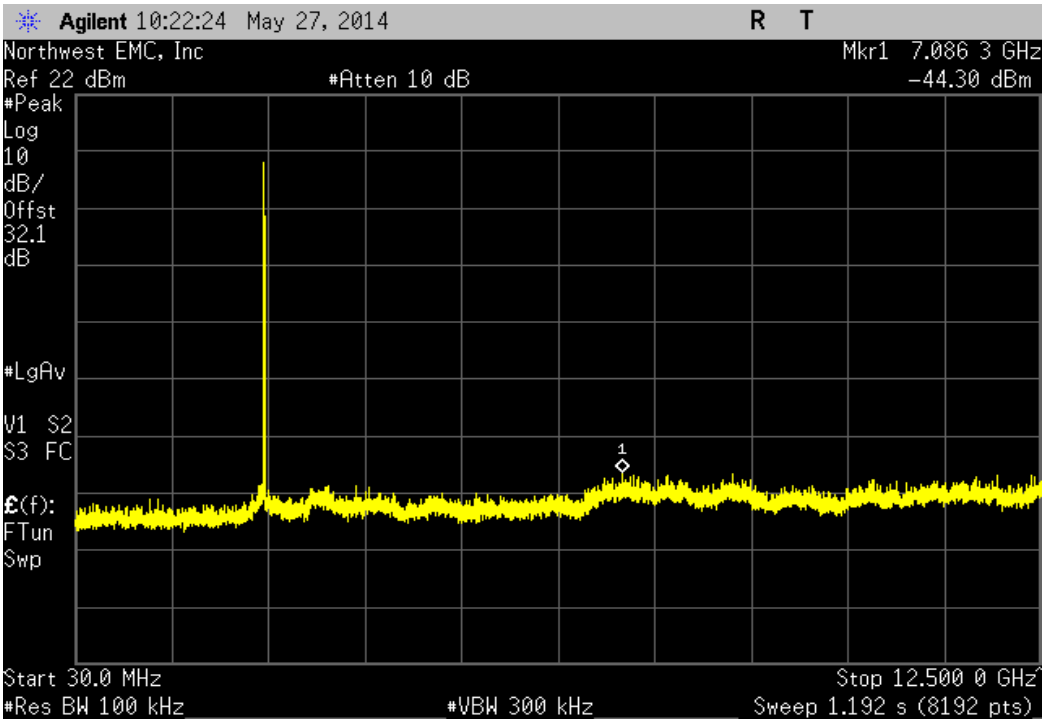


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

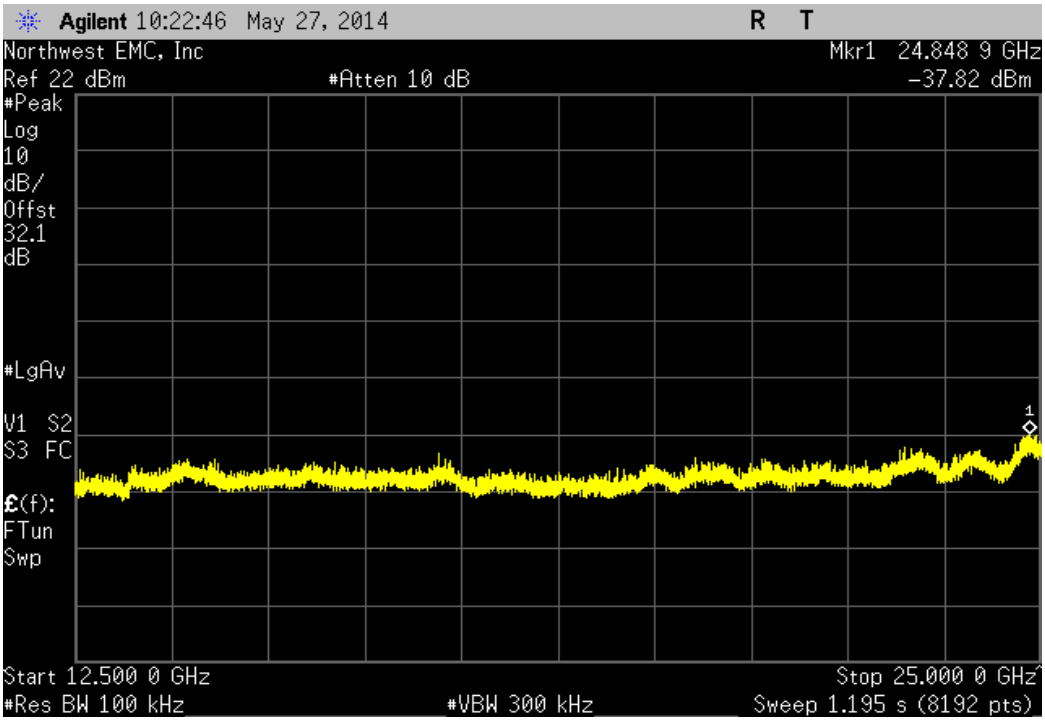


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.26 dBc	≤ -20 dBc	Pass

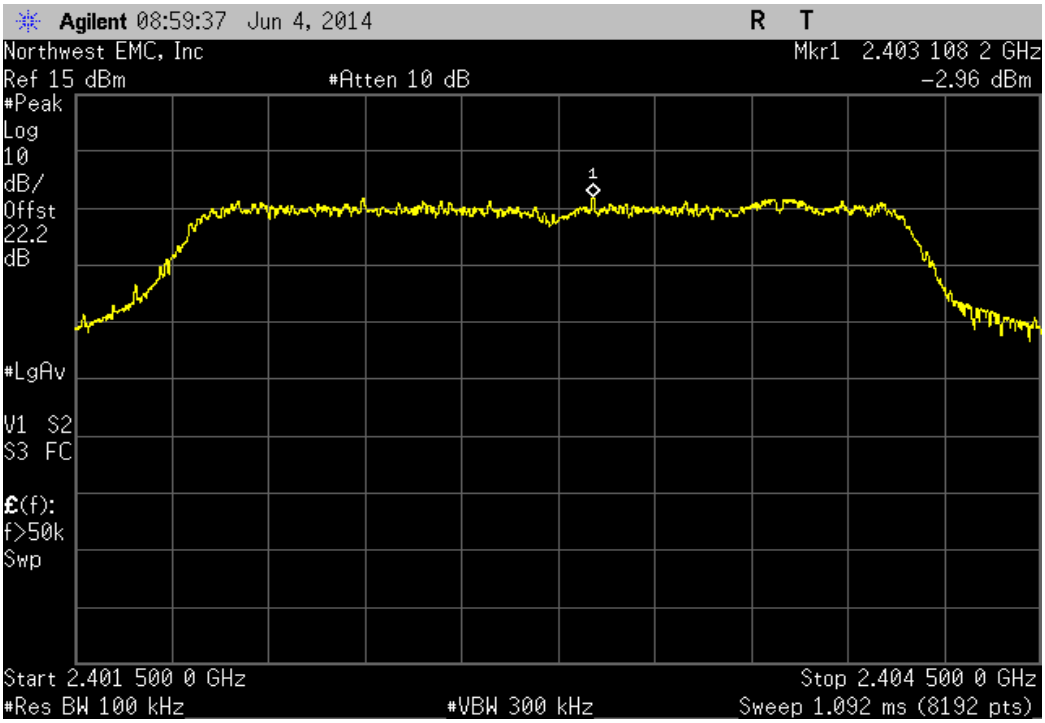


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.78 dBc	≤ -20 dBc	Pass

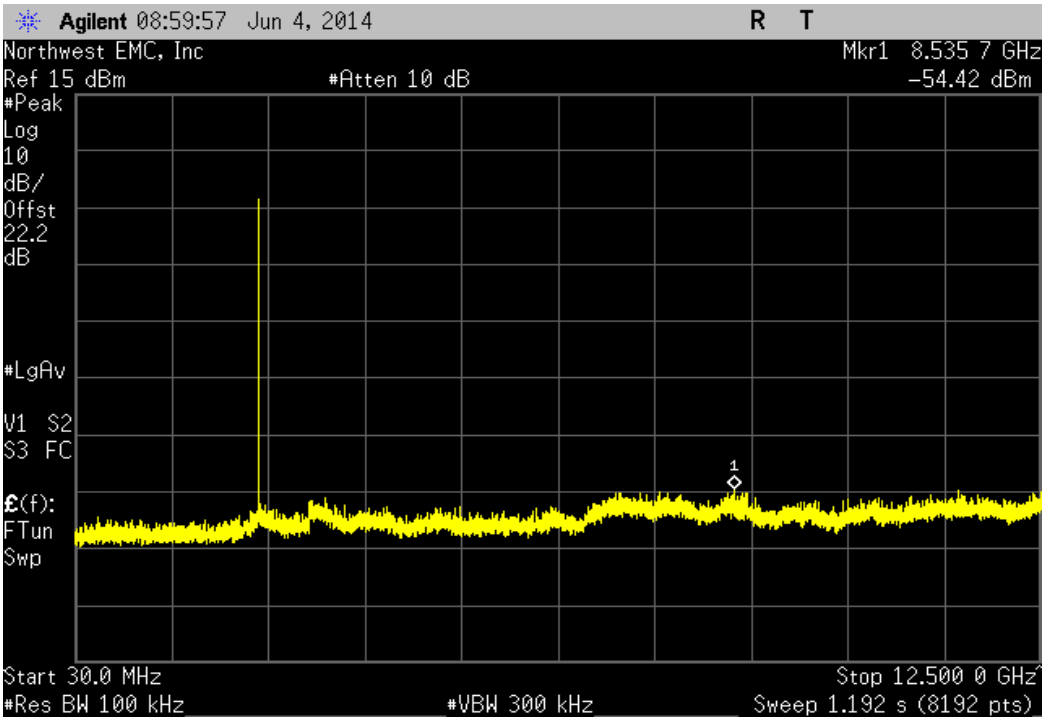


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

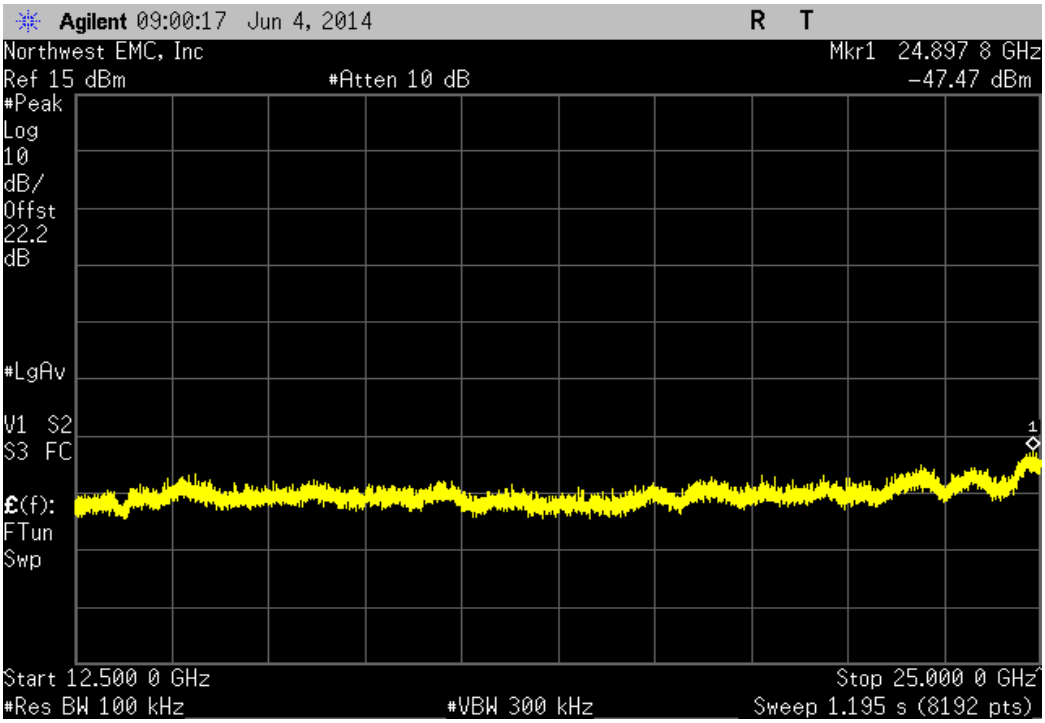


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.45 dBc	≤ -20 dBc	Pass

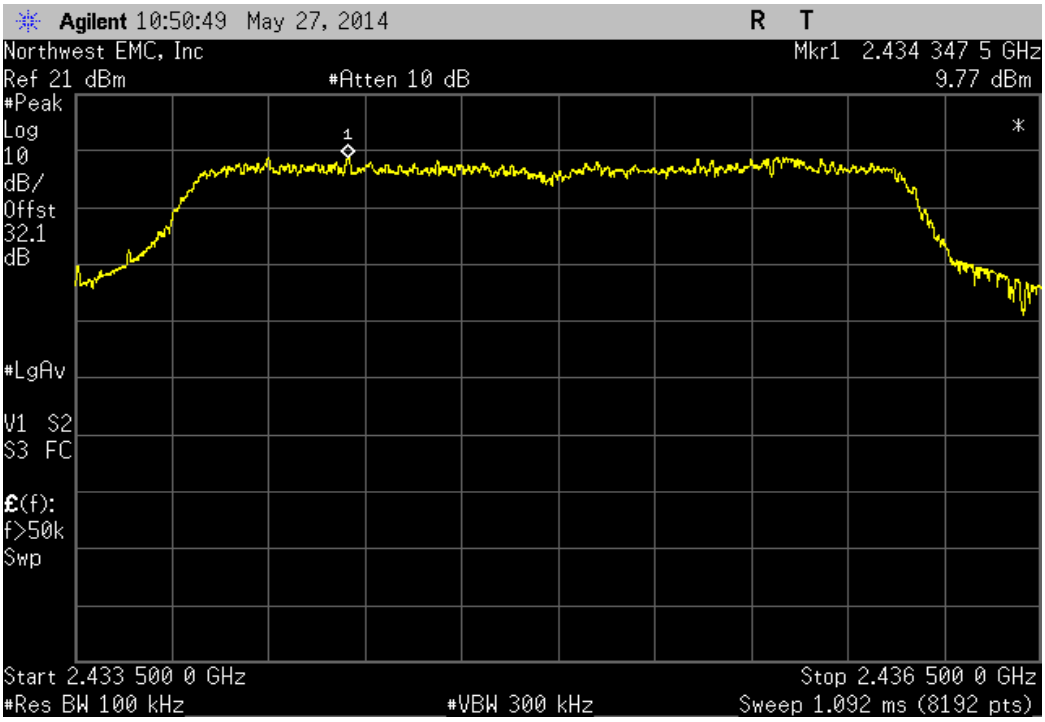


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.5 dBc	≤ -20 dBc	Pass

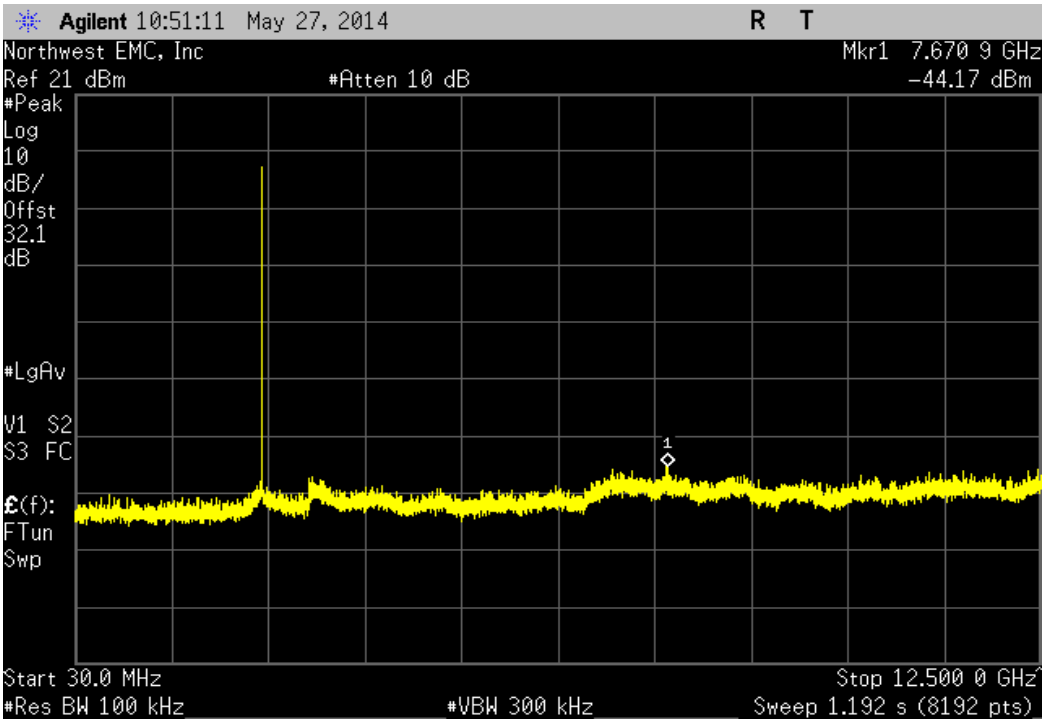


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

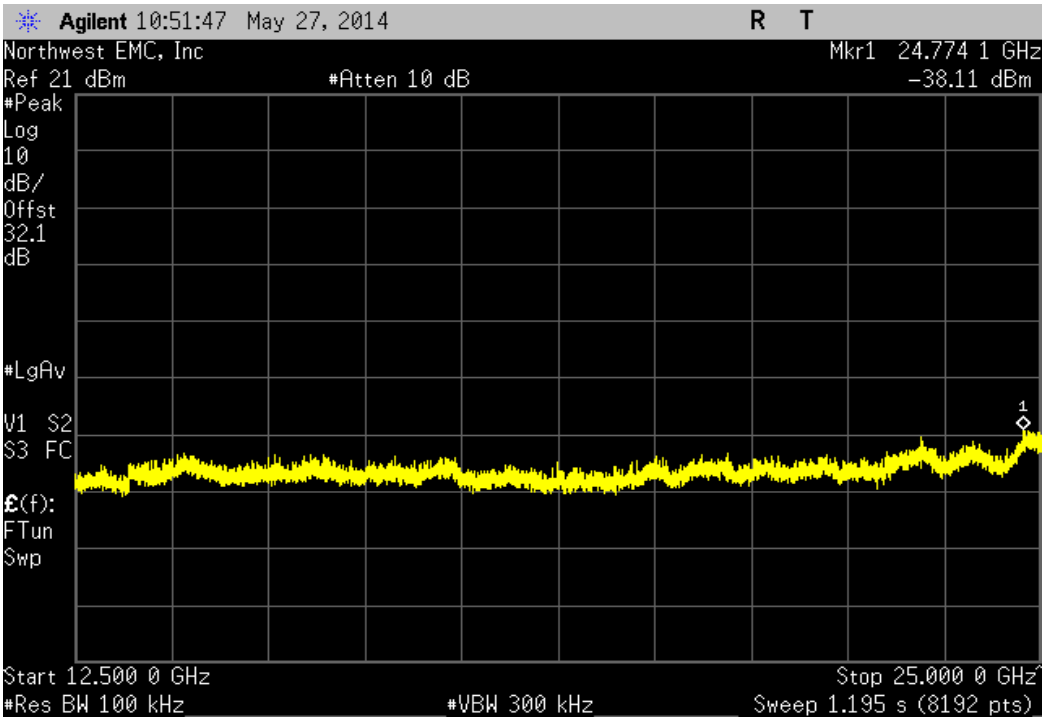


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.94 dBc	≤ -20 dBc	Pass

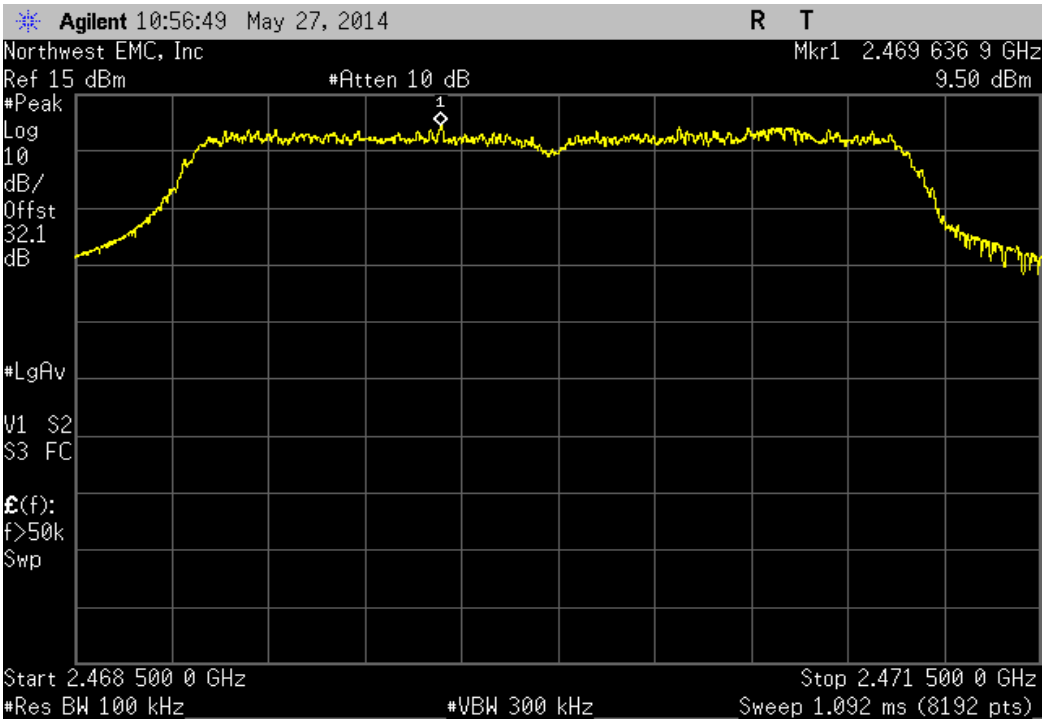


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.88 dBc	≤ -20 dBc	Pass

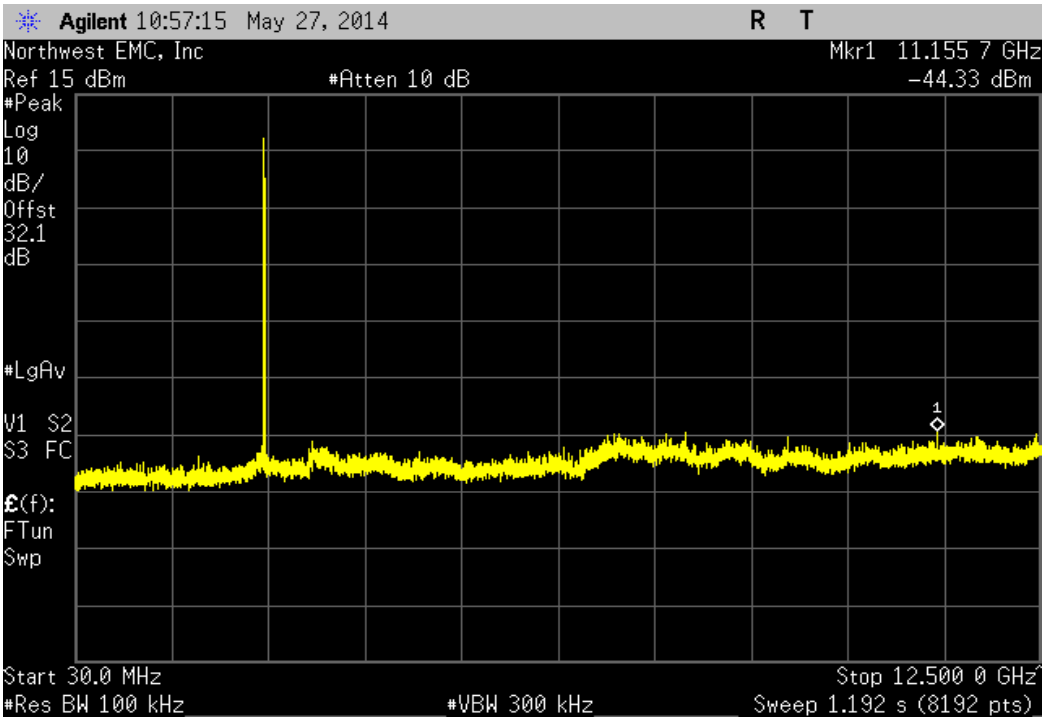


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

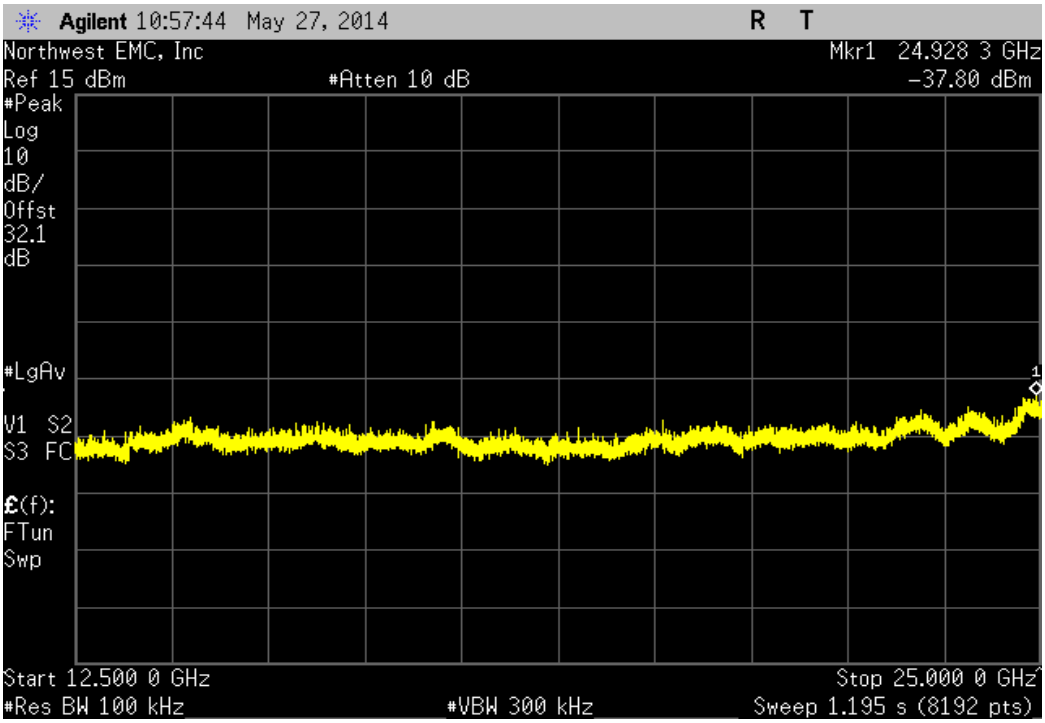


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.83 dBc	≤ -20 dBc	Pass

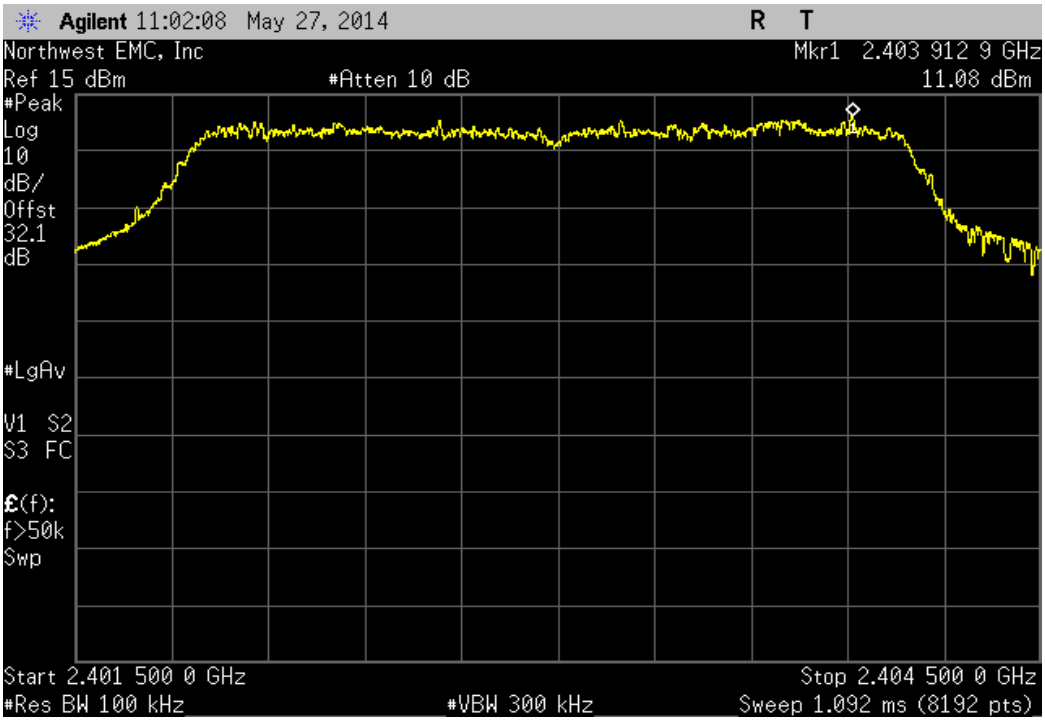


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS0, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.3 dBc	≤ -20 dBc	Pass

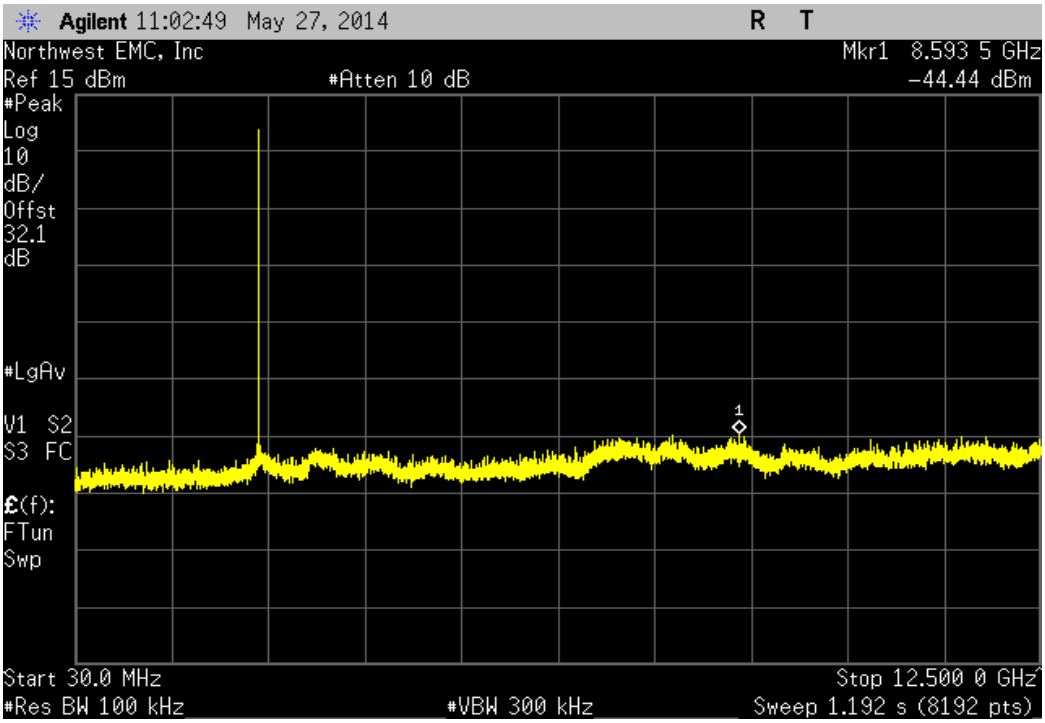


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2403 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

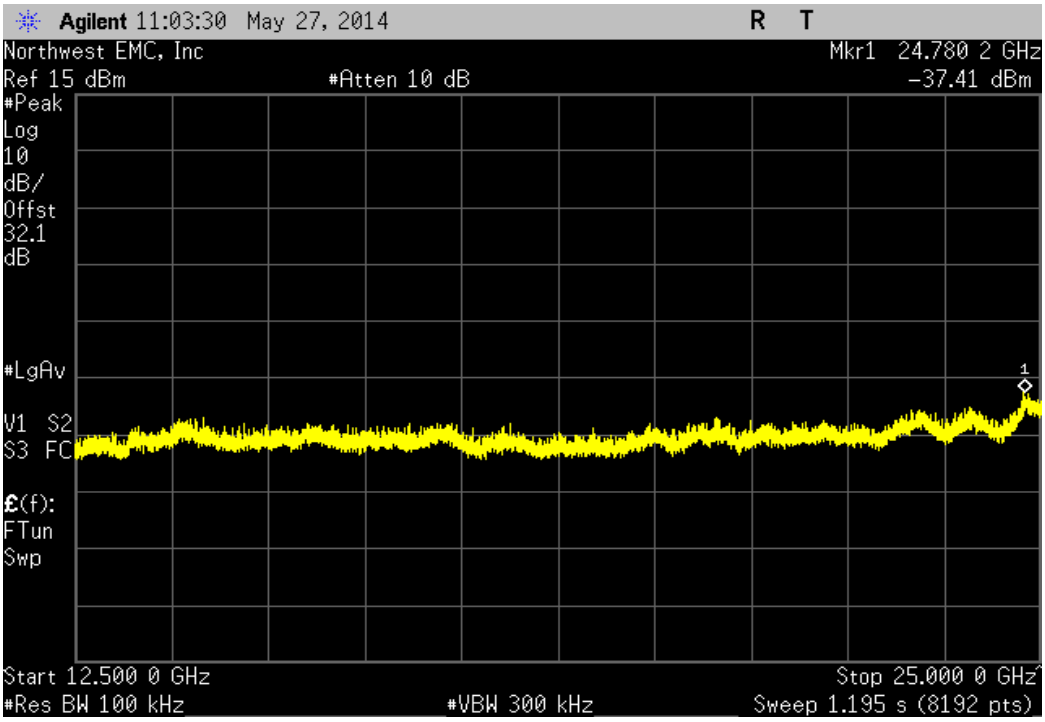


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-55.52 dBc	≤ -20 dBc	Pass

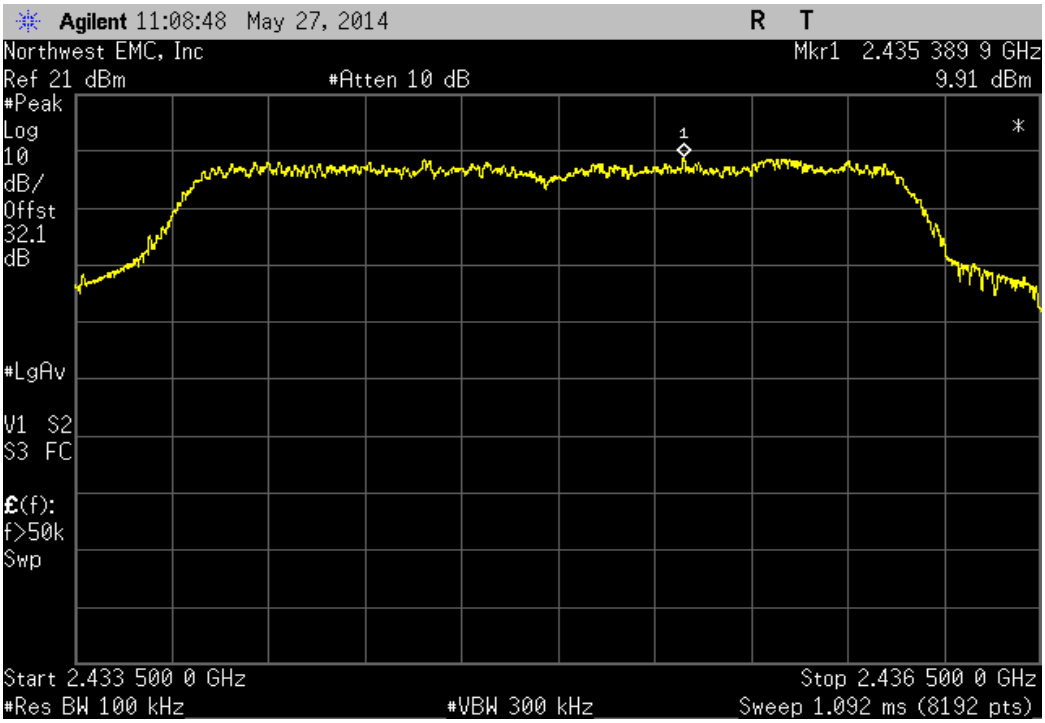


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2403 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.49 dBc	≤ -20 dBc	Pass

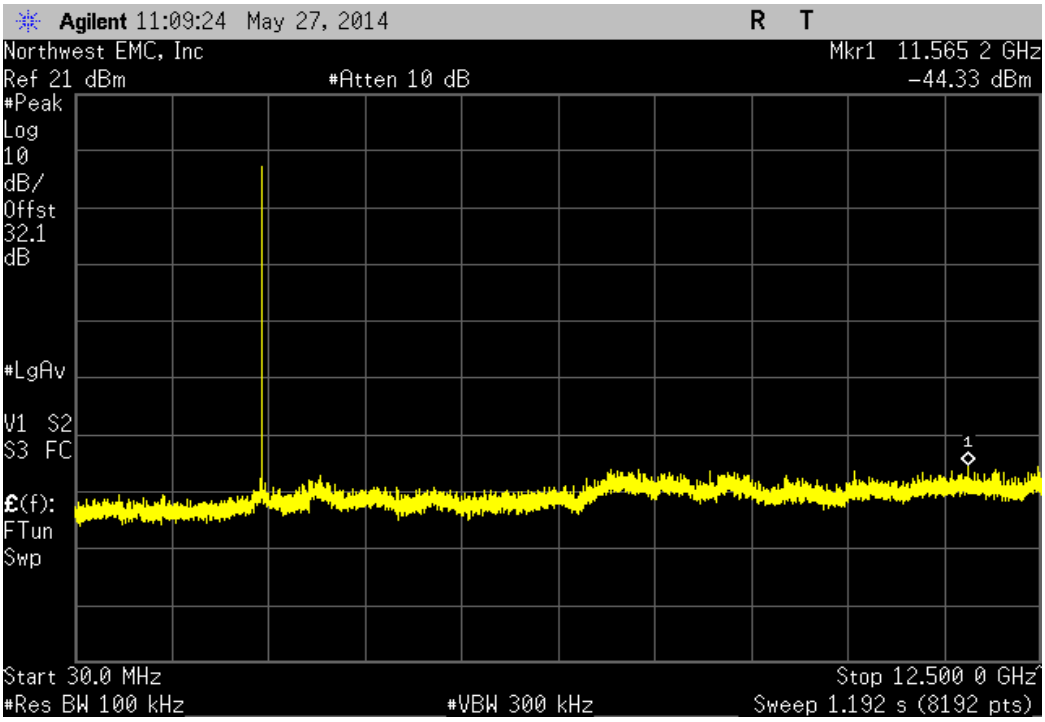


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2435 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

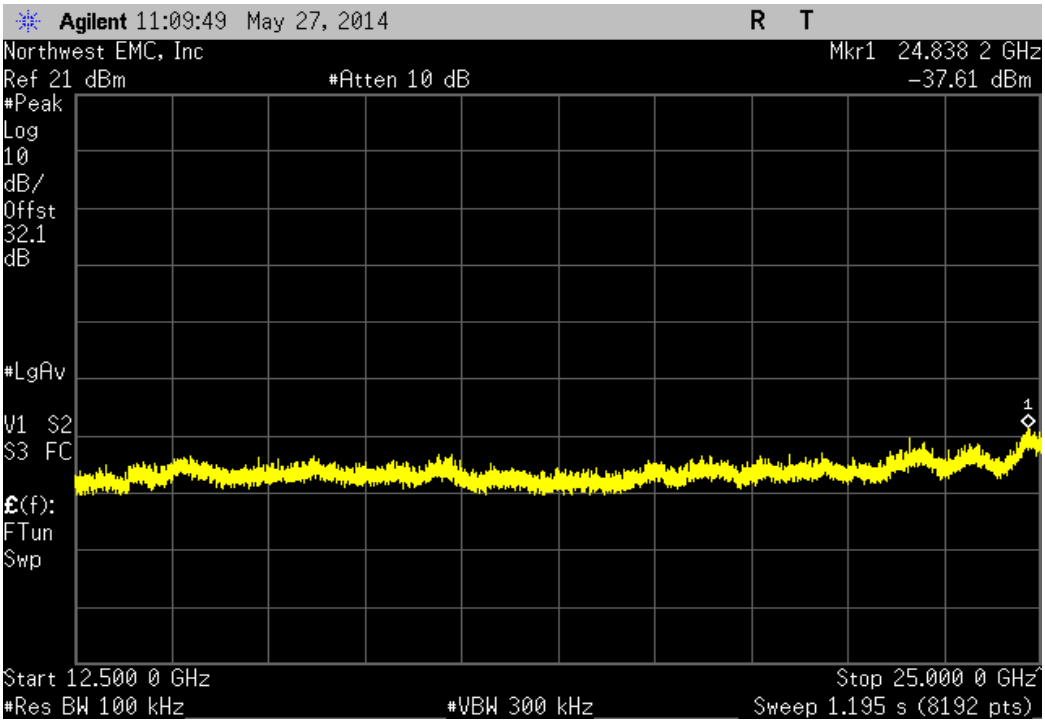


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.24 dBc	≤ -20 dBc	Pass

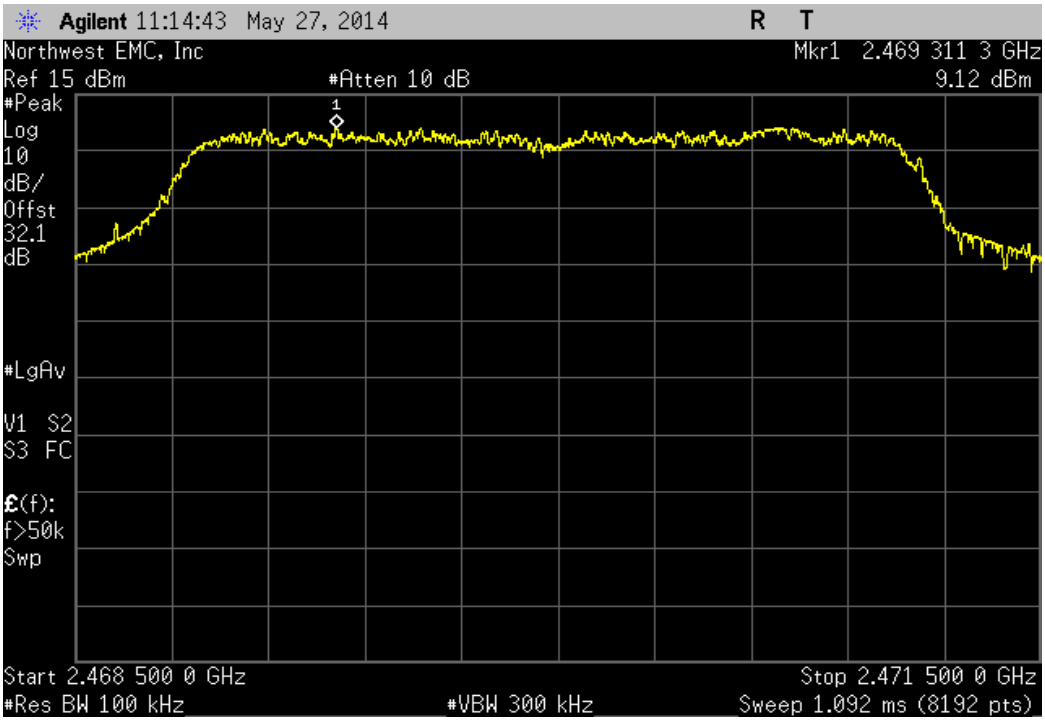


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2435 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.52 dBc	≤ -20 dBc	Pass

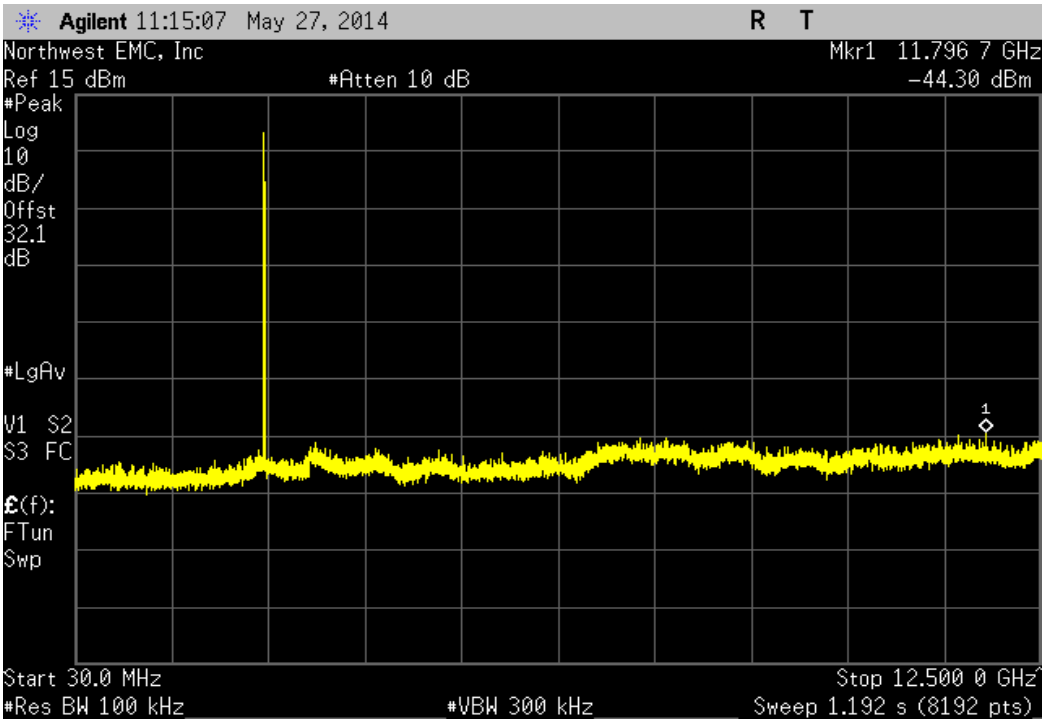


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, High Channel 2470 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

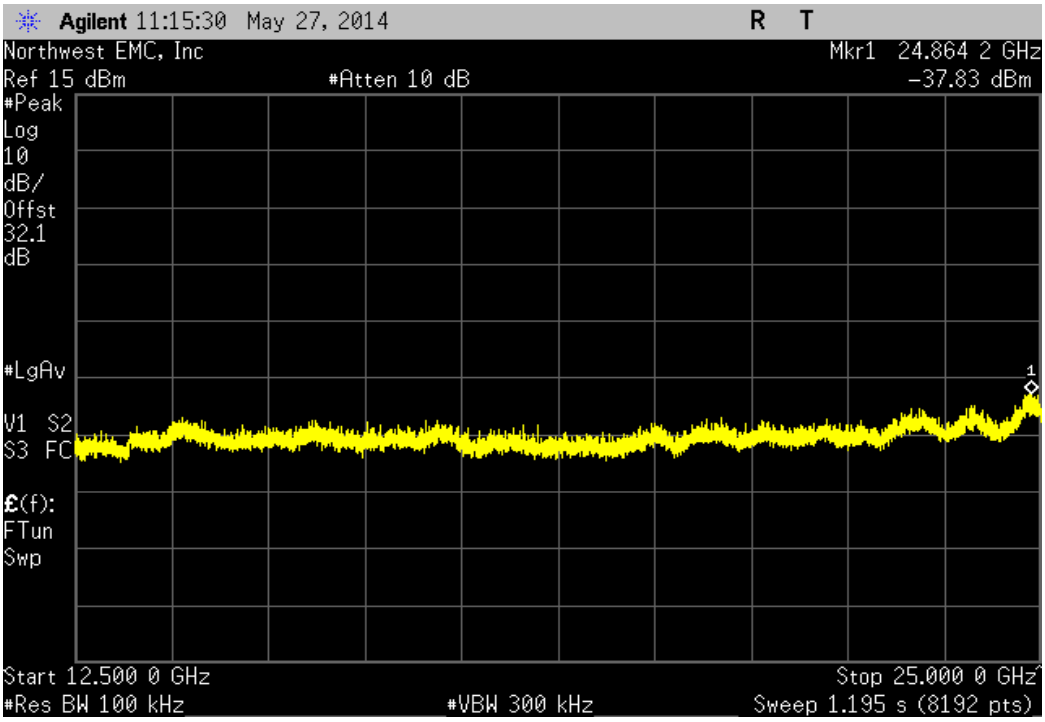


2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.42 dBc	≤ -20 dBc	Pass

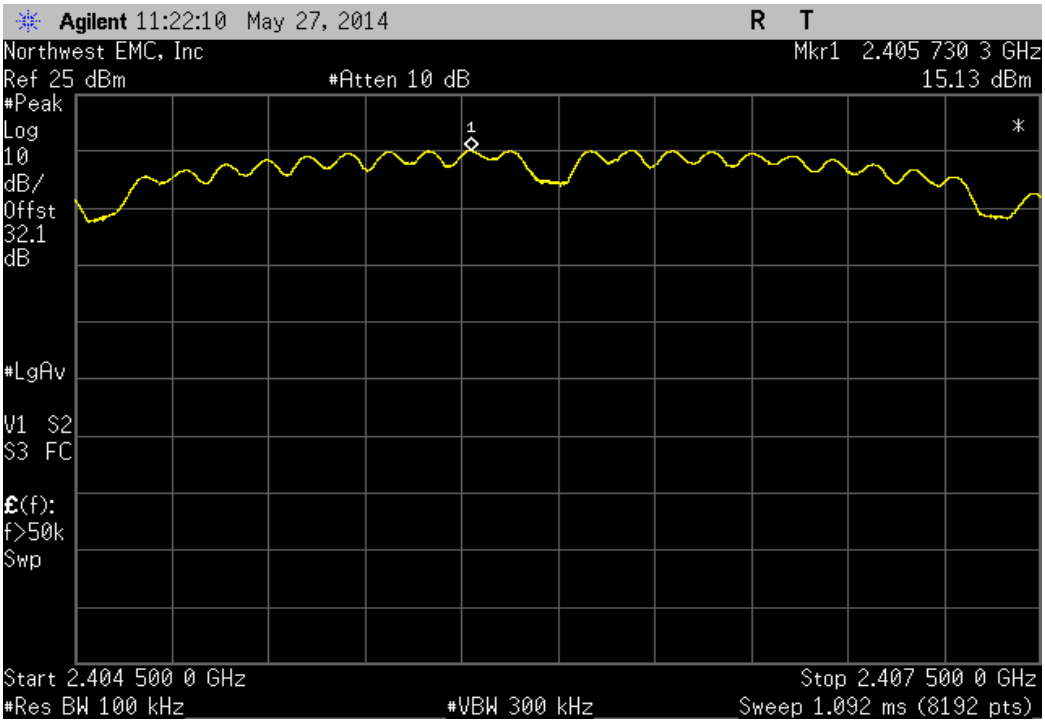


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 2.5MHz Bandwidth , 802.11(n) MCS7, High Channel 2470 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-46.95 dBc	≤ -20 dBc	Pass

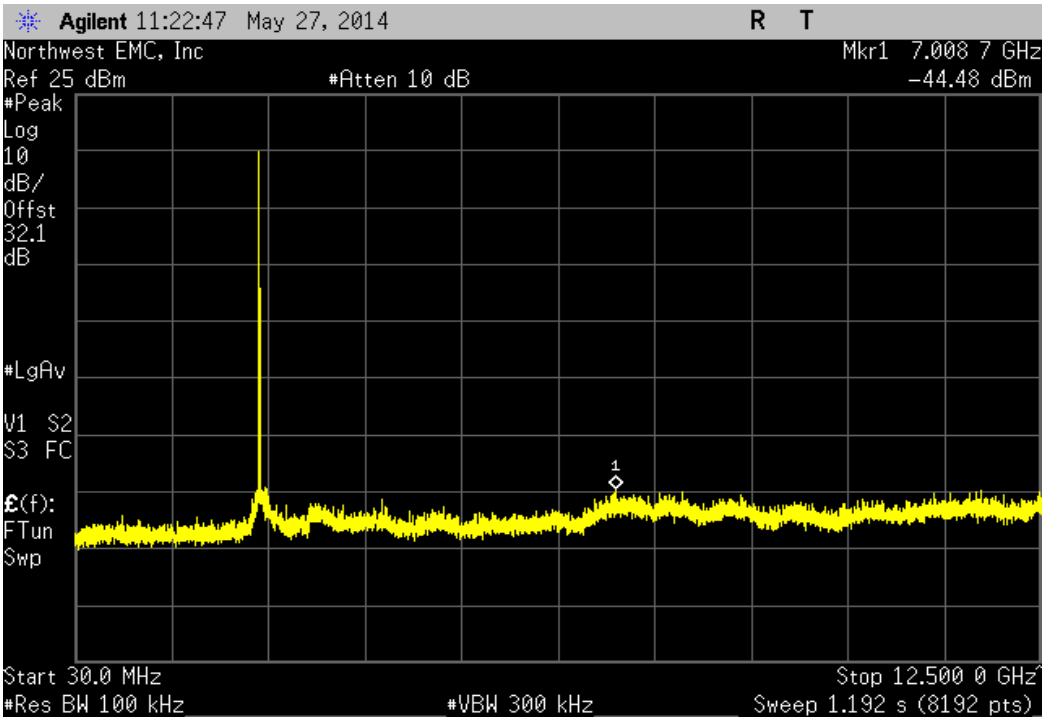


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

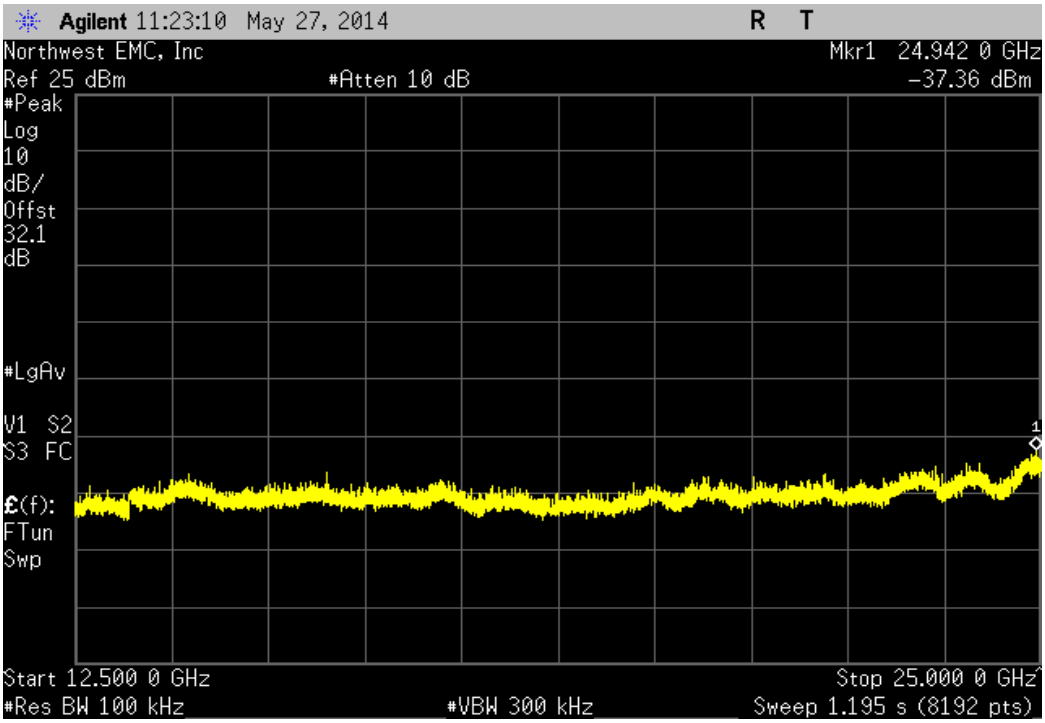


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-59.61 dBc	≤ -20 dBc	Pass

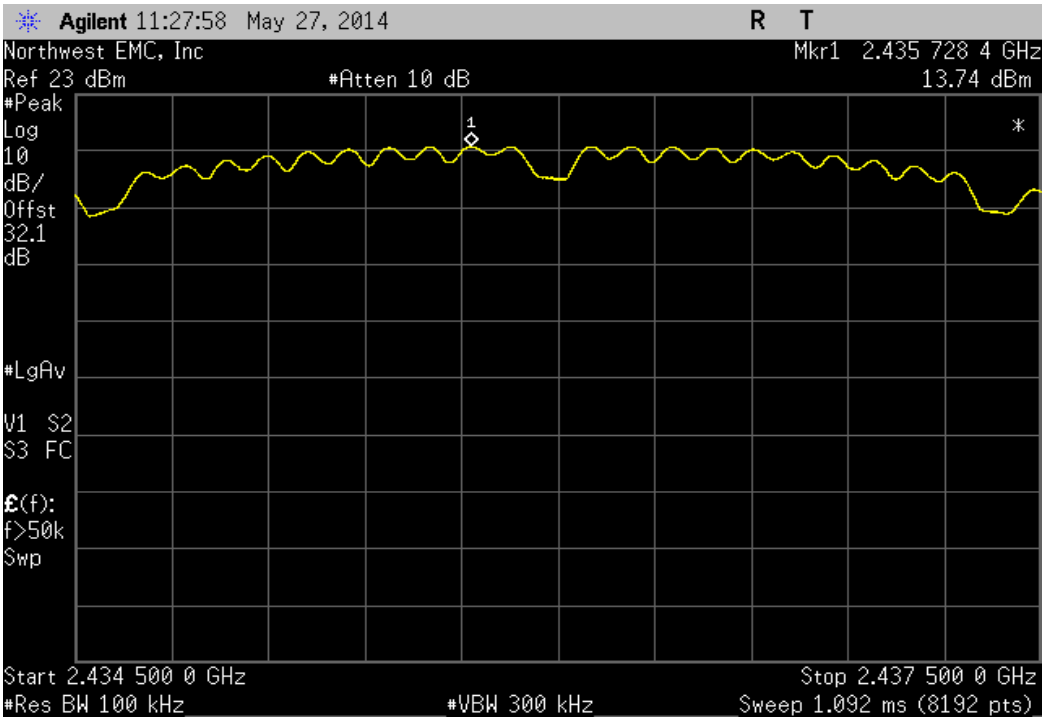


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-52.49 dBc	≤ -20 dBc	Pass

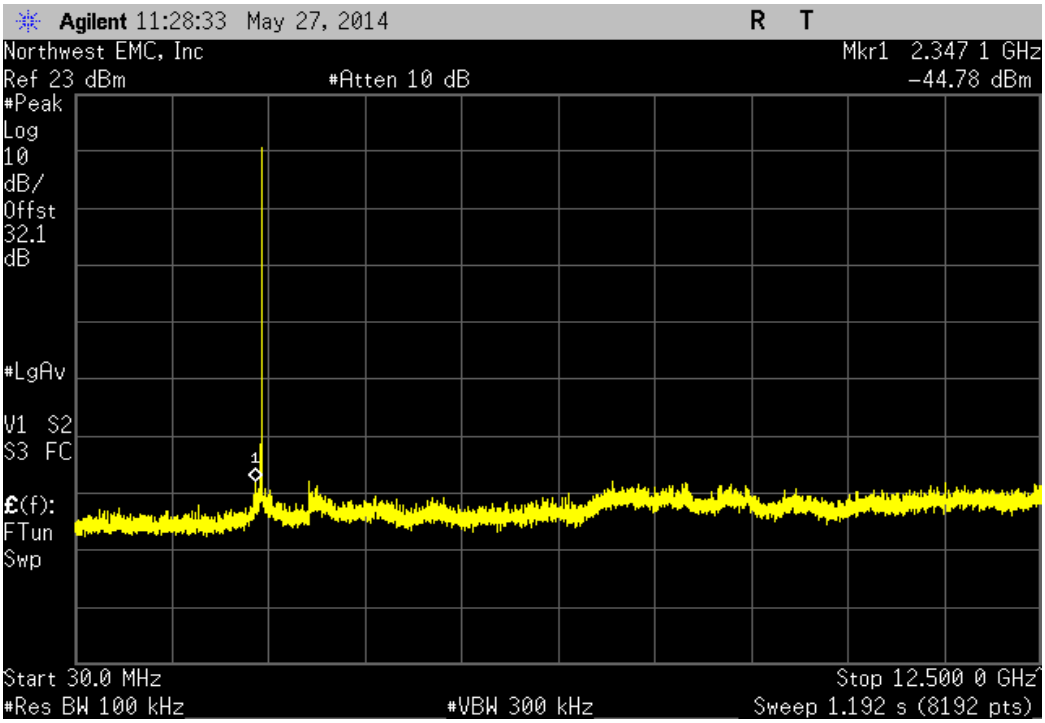


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

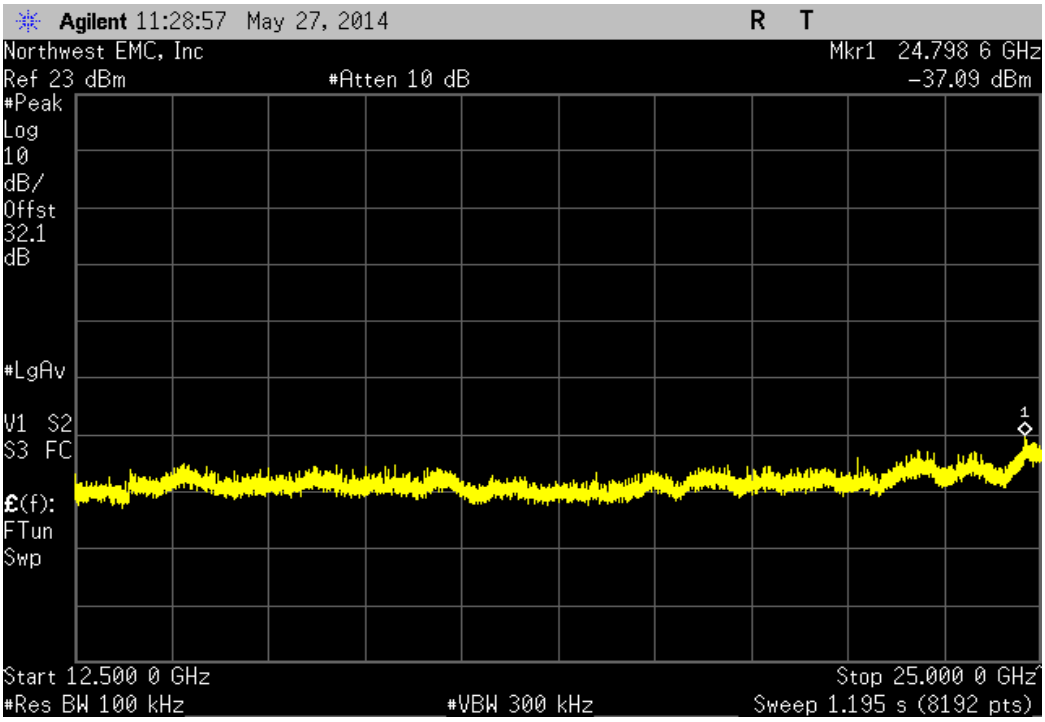


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-58.52 dBc	≤ -20 dBc	Pass

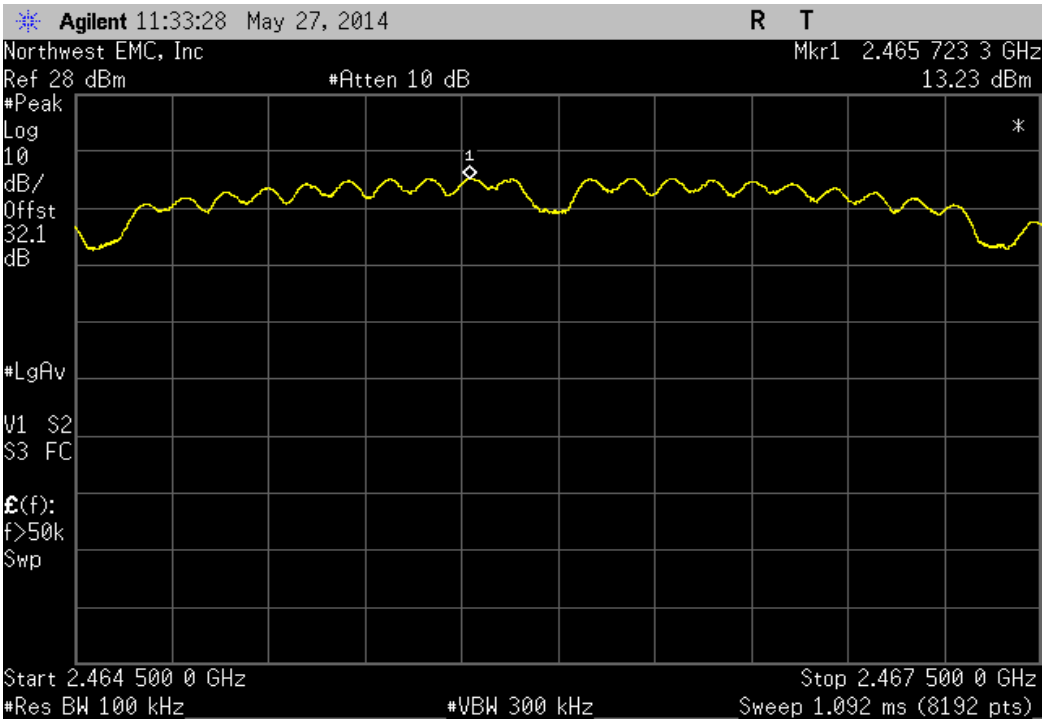


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.83 dBc	≤ -20 dBc	Pass

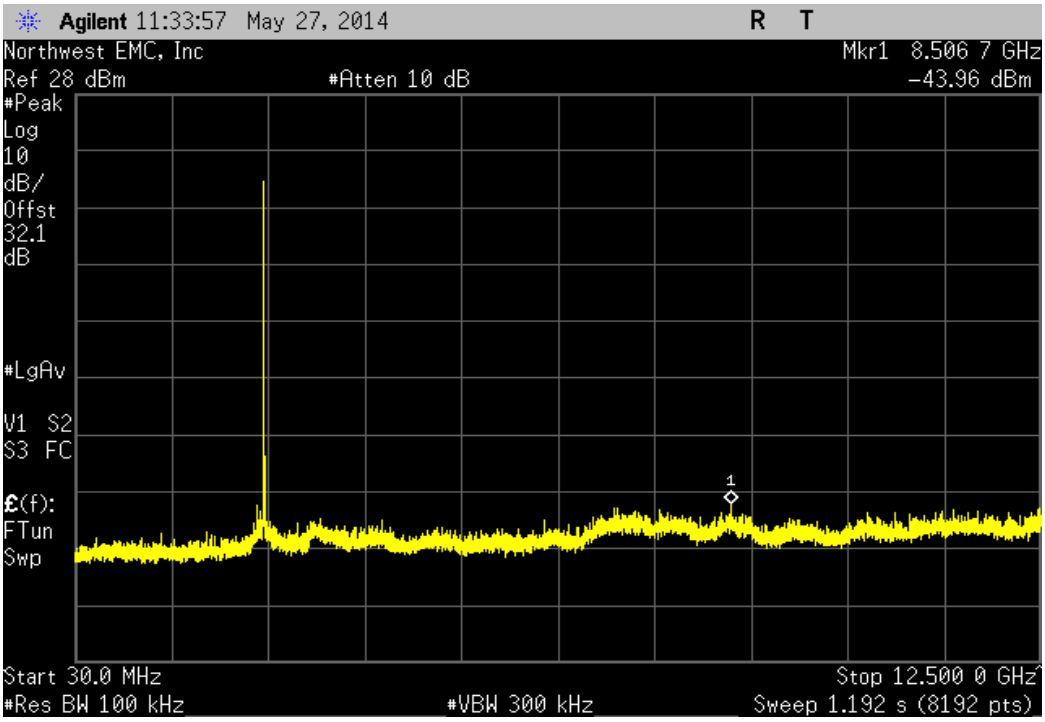


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

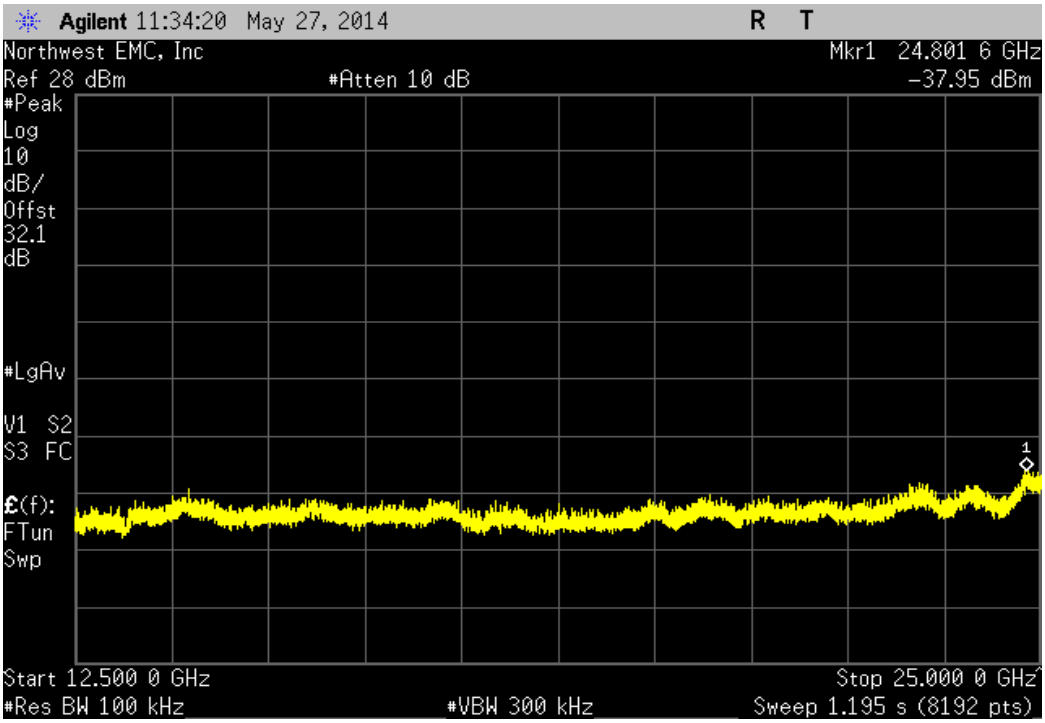


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-57.19 dBc	≤ -20 dBc	Pass

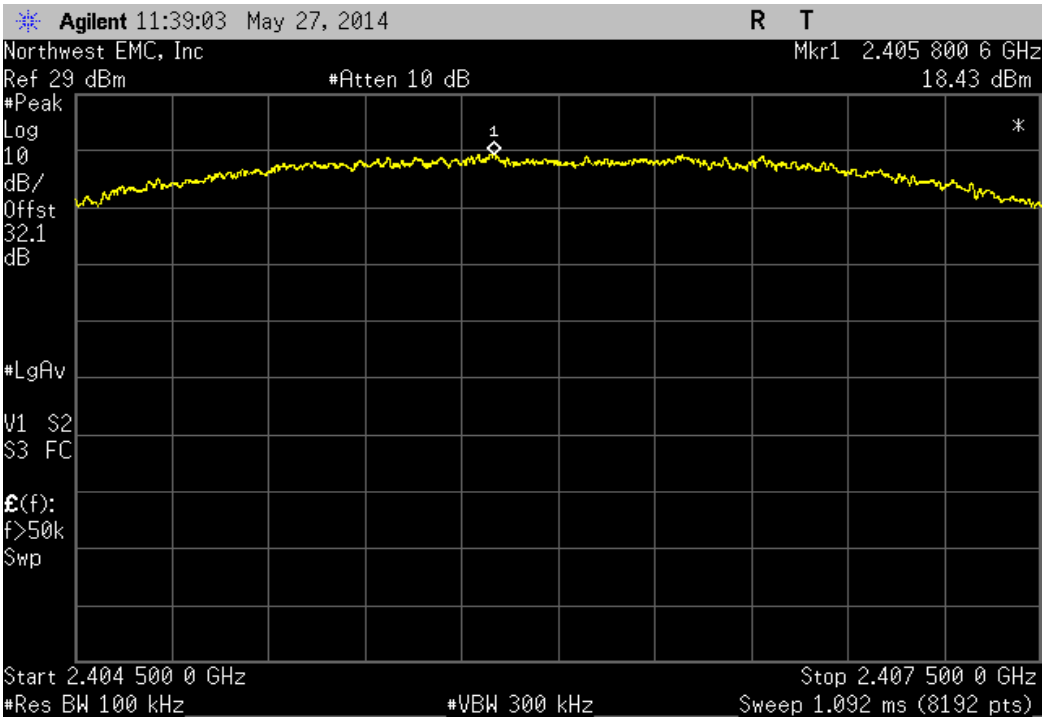


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.18 dBc	≤ -20 dBc	Pass

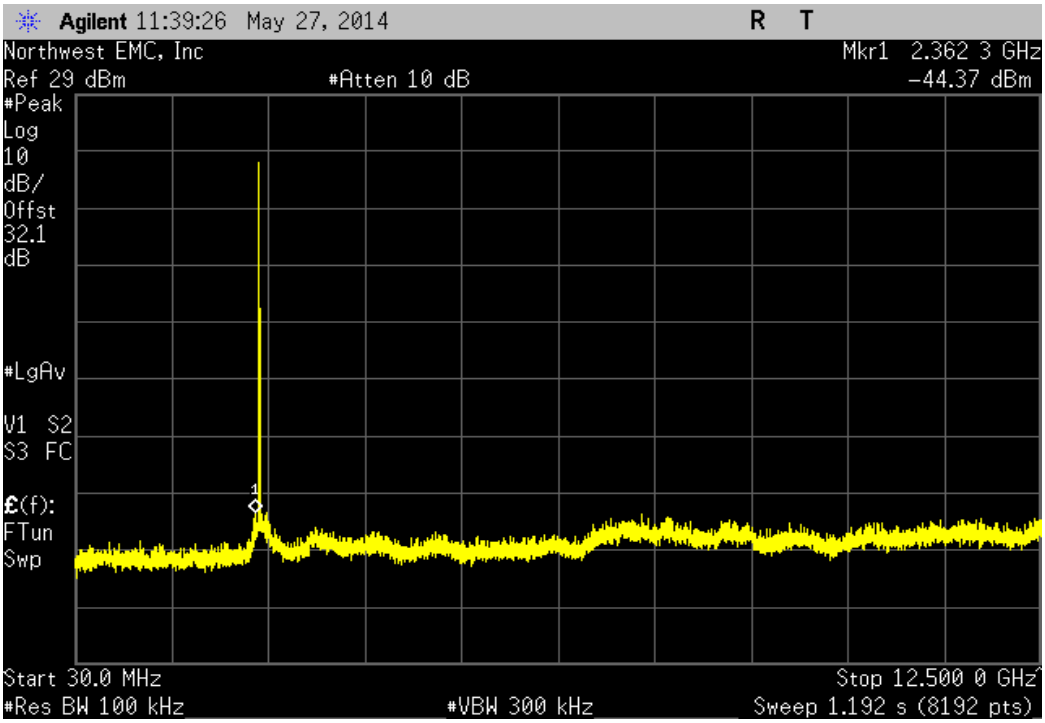


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

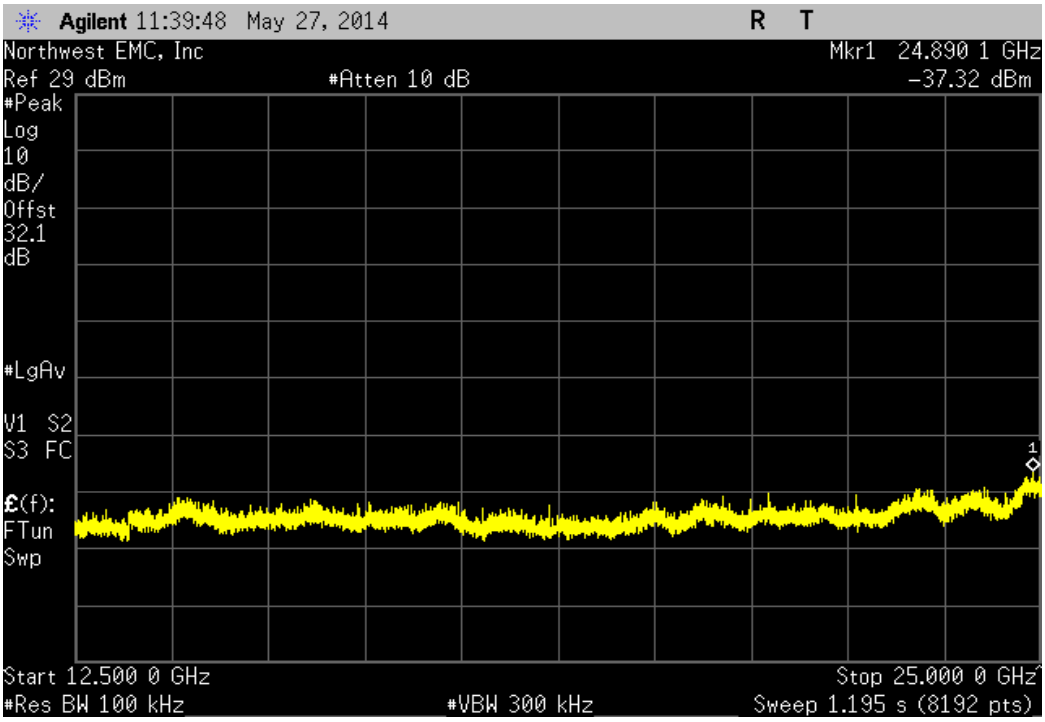


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-62.8 dBc	≤ -20 dBc	Pass

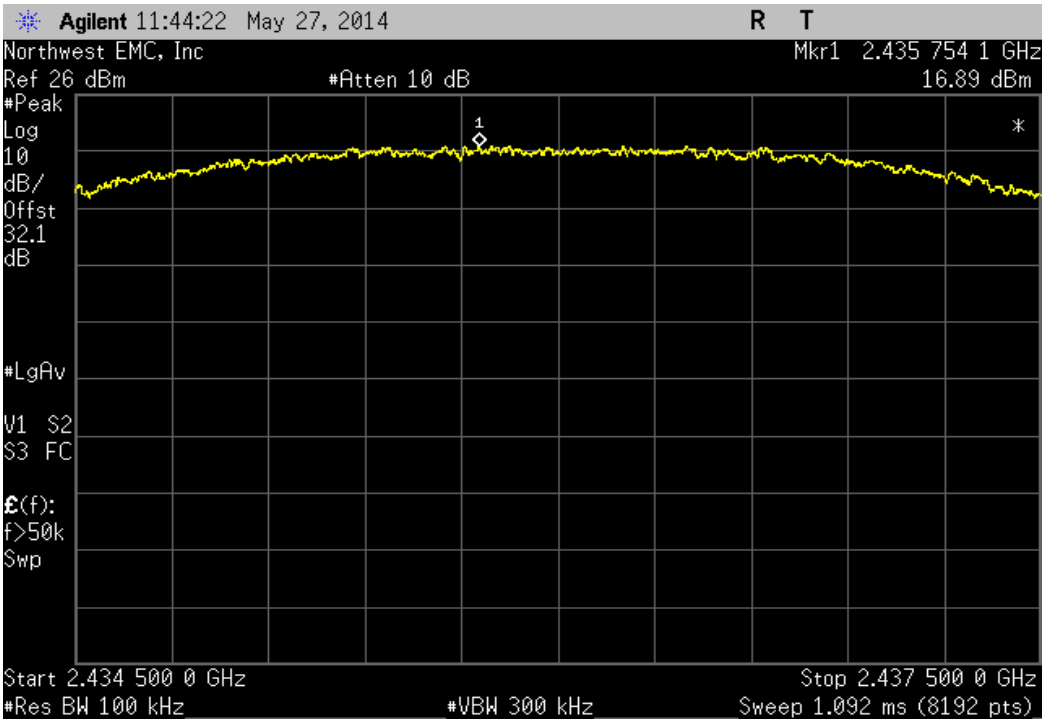


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-55.75 dBc	≤ -20 dBc	Pass

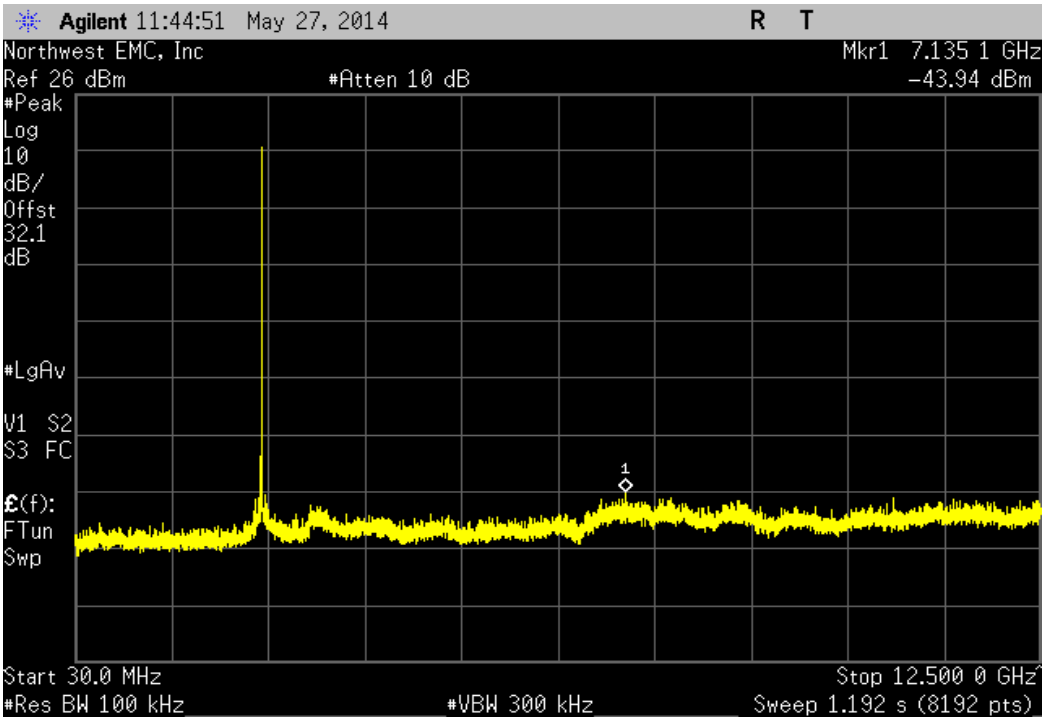


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

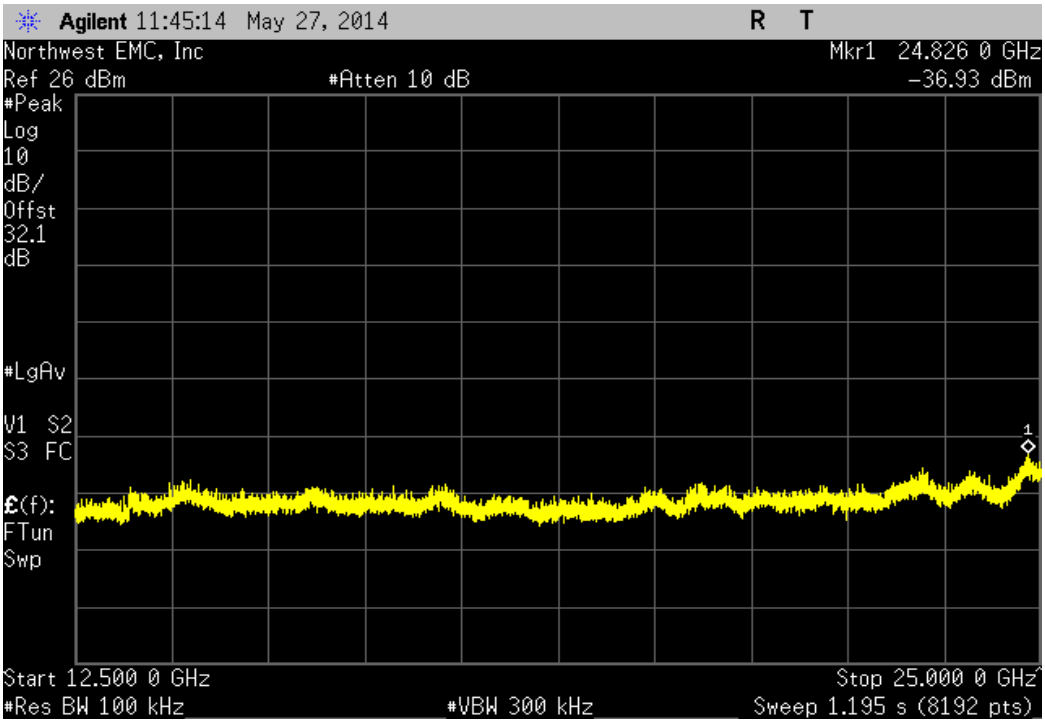


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-60.83 dBc	≤ -20 dBc	Pass

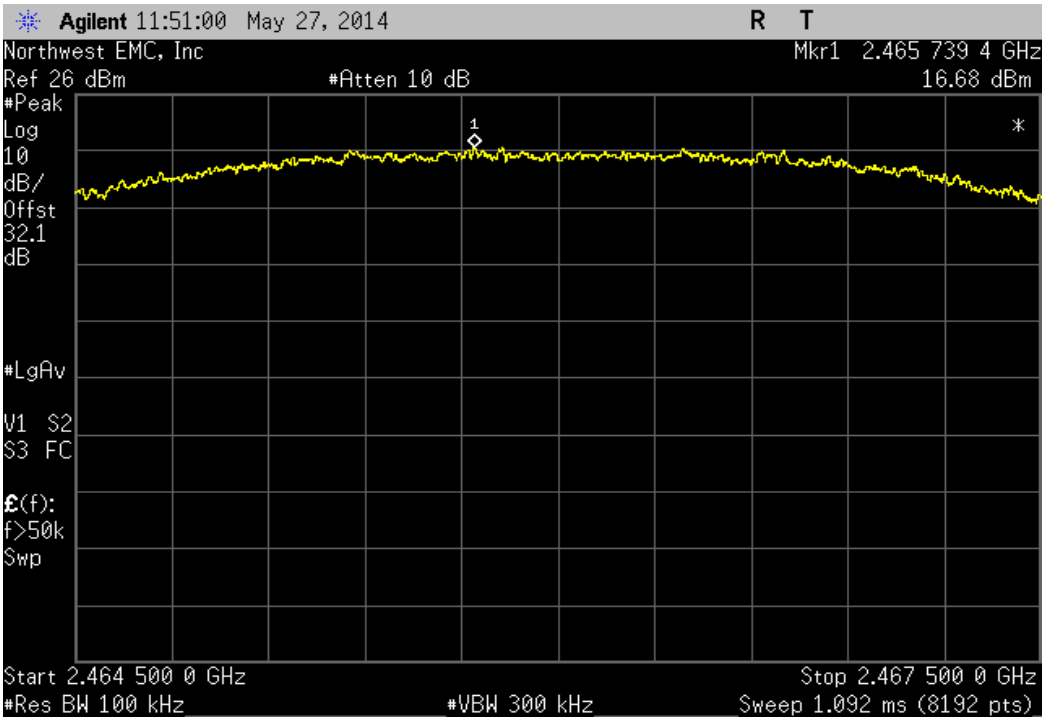


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-53.82 dBc	≤ -20 dBc	Pass

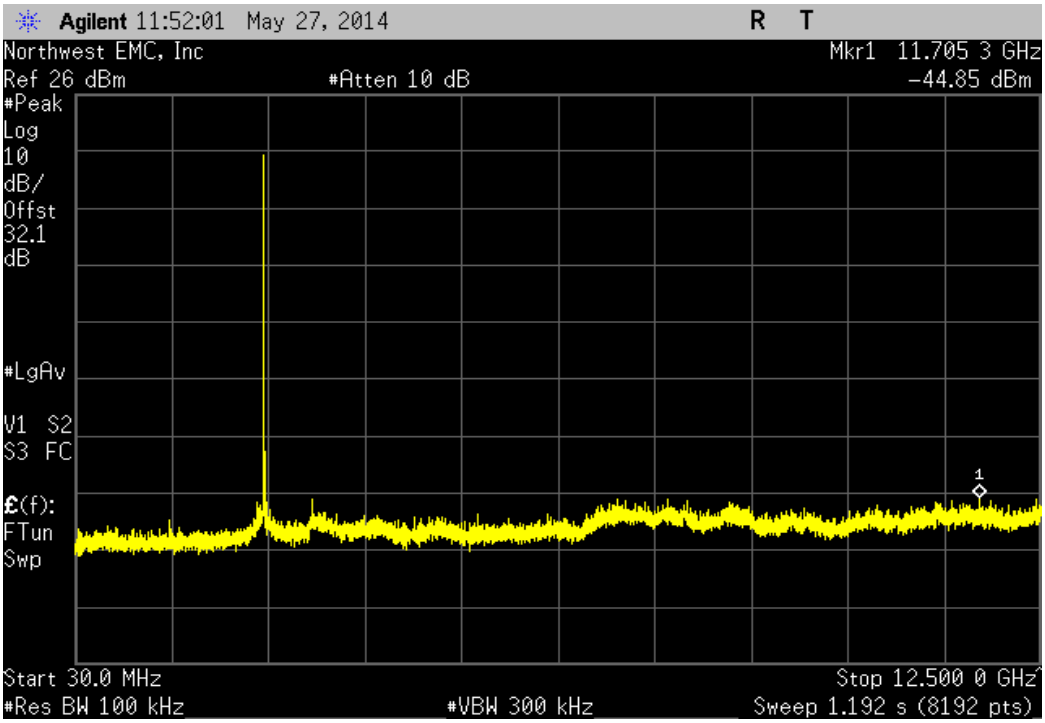


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

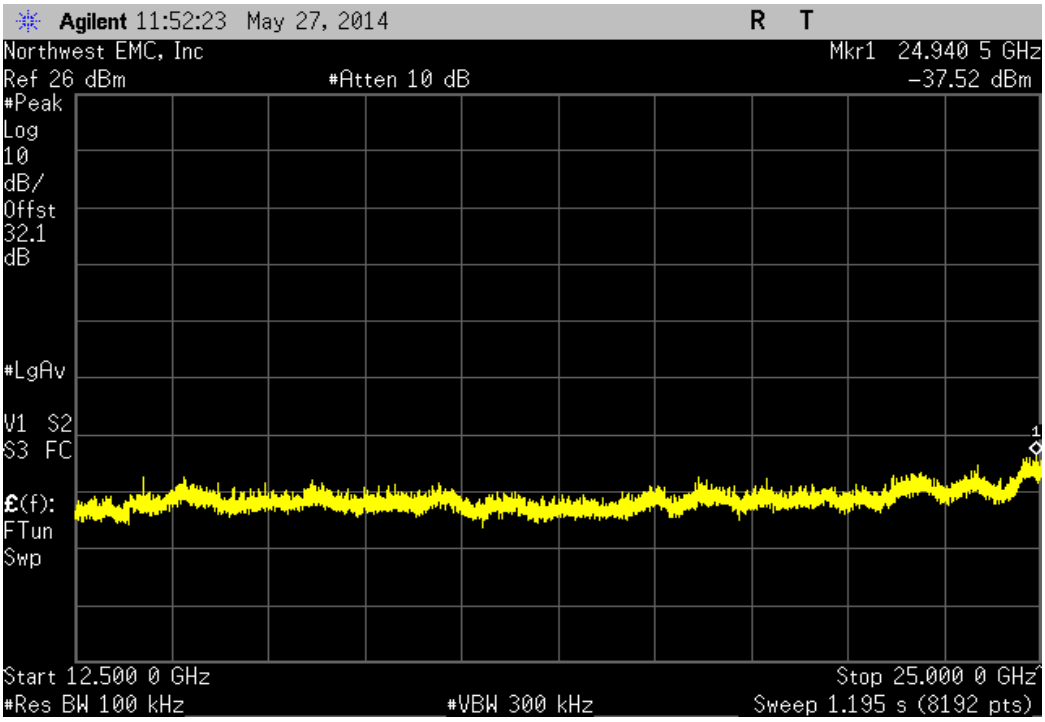


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-61.53 dBc	≤ -20 dBc	Pass

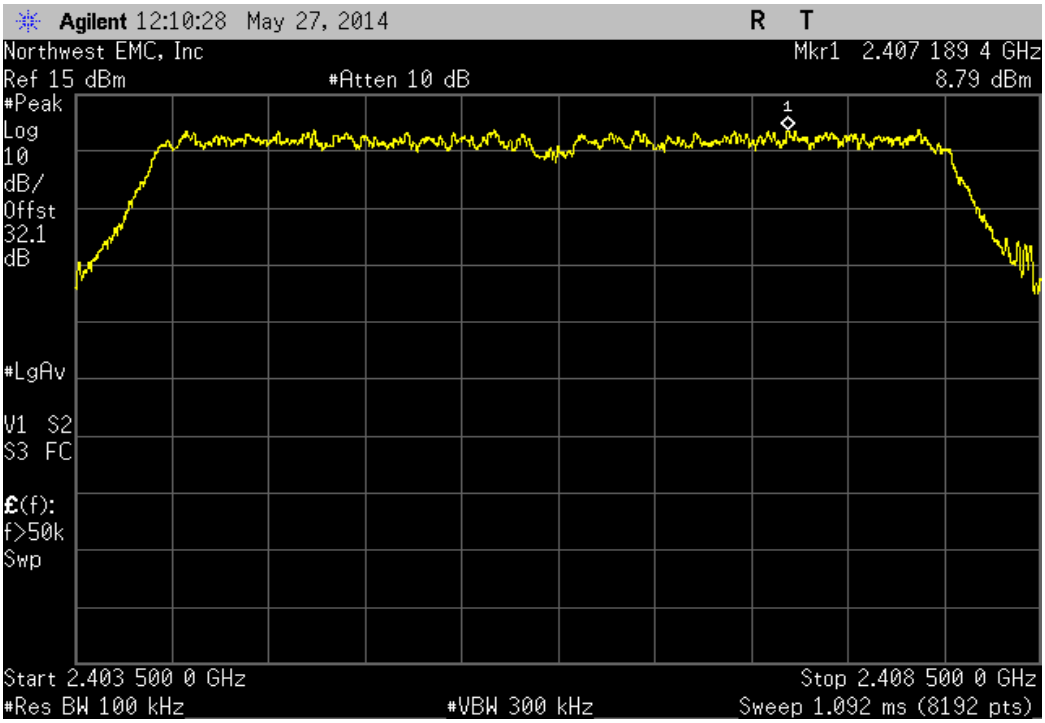


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(b) 11 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-54.2 dBc	≤ -20 dBc	Pass

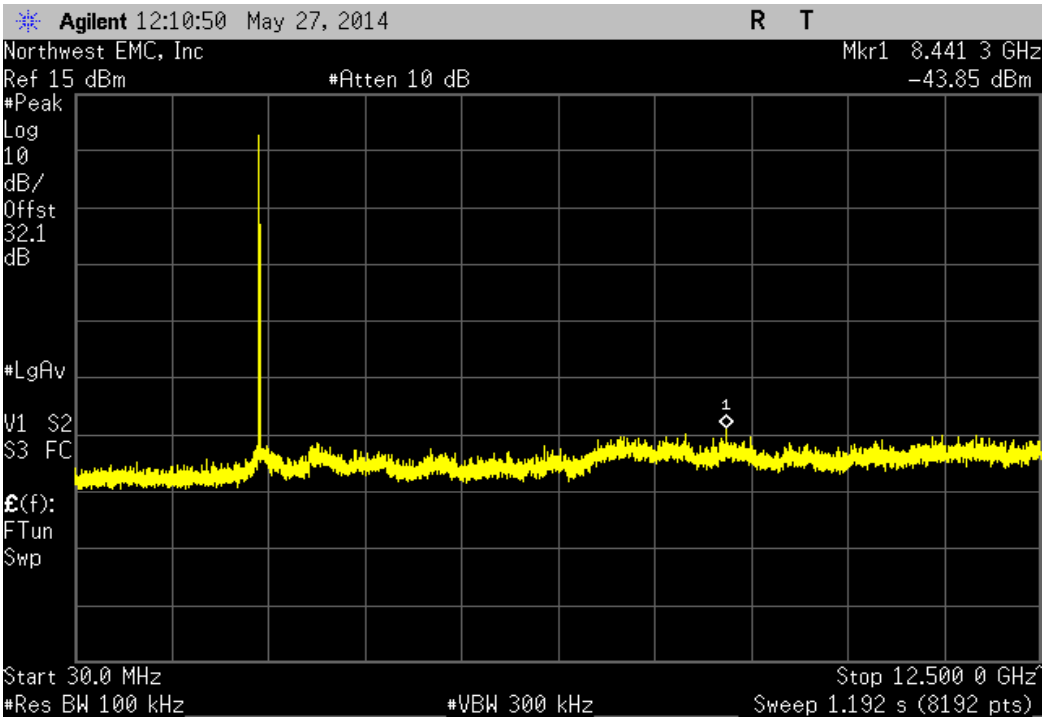


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

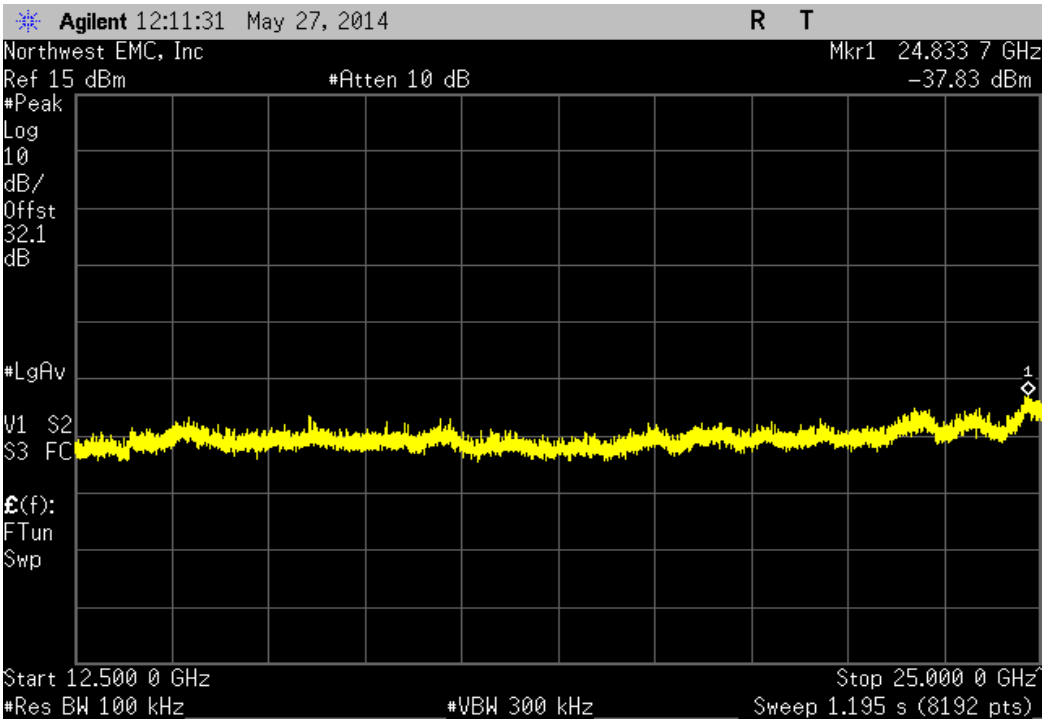


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.64 dBc	≤ -20 dBc	Pass

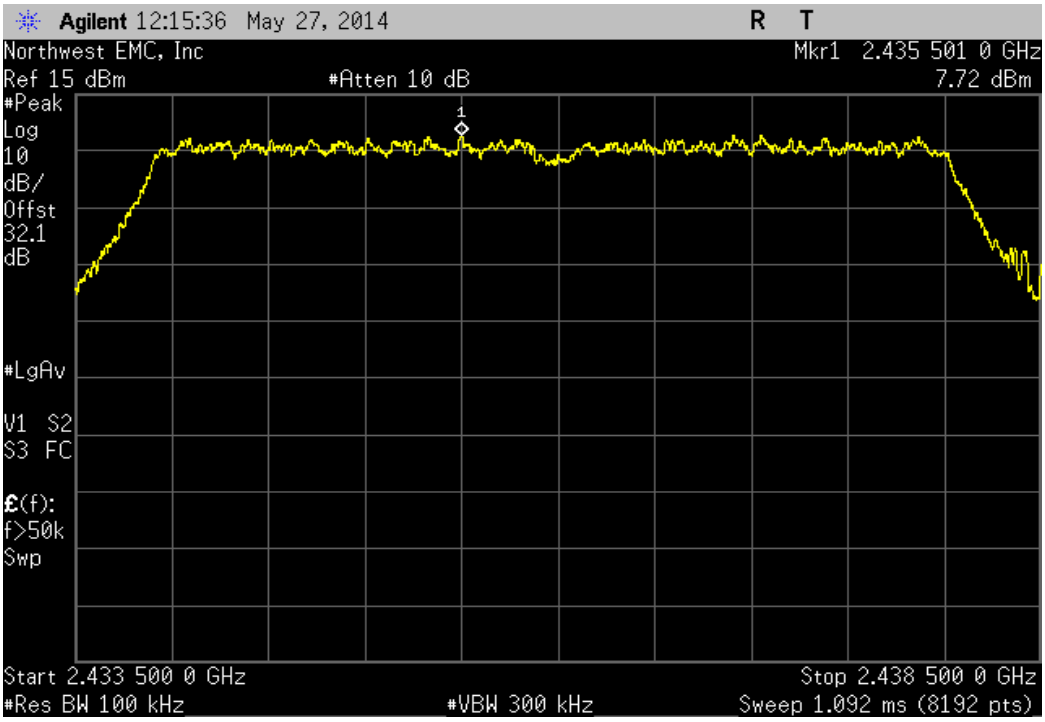


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-46.62 dBc	≤ -20 dBc	Pass

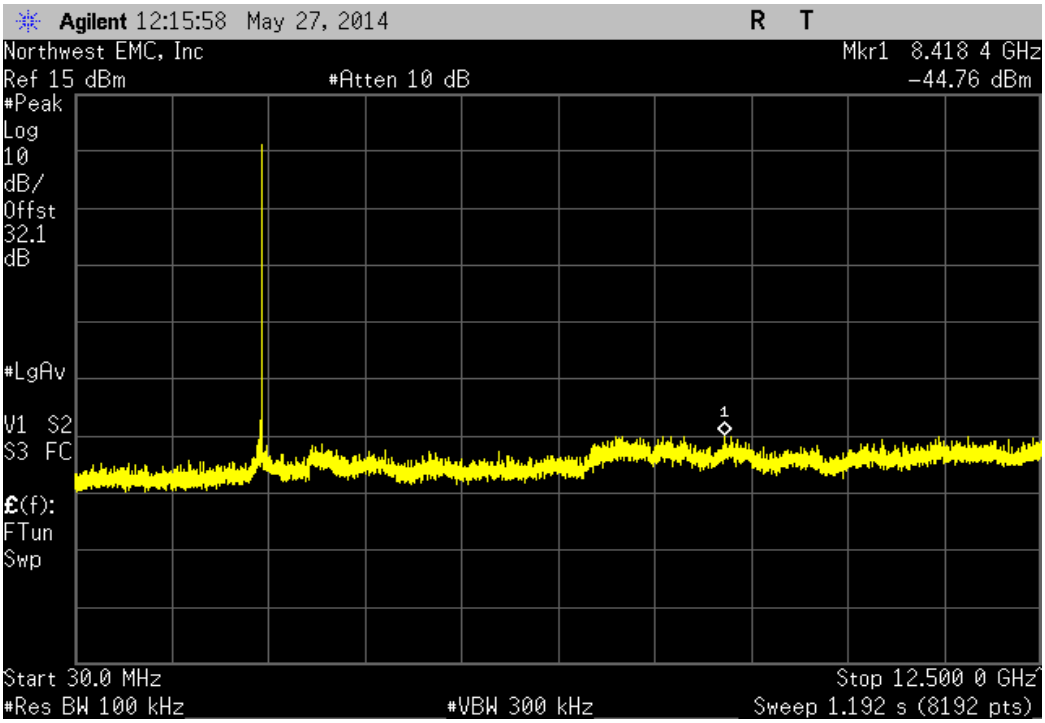


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

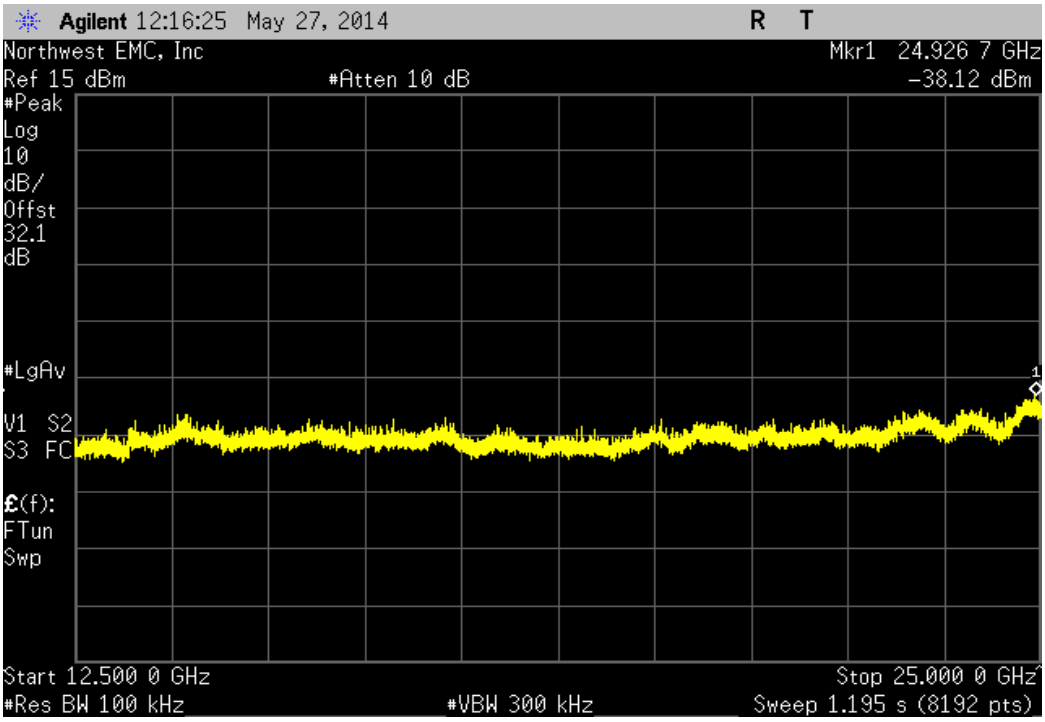


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.48 dBc	≤ -20 dBc	Pass

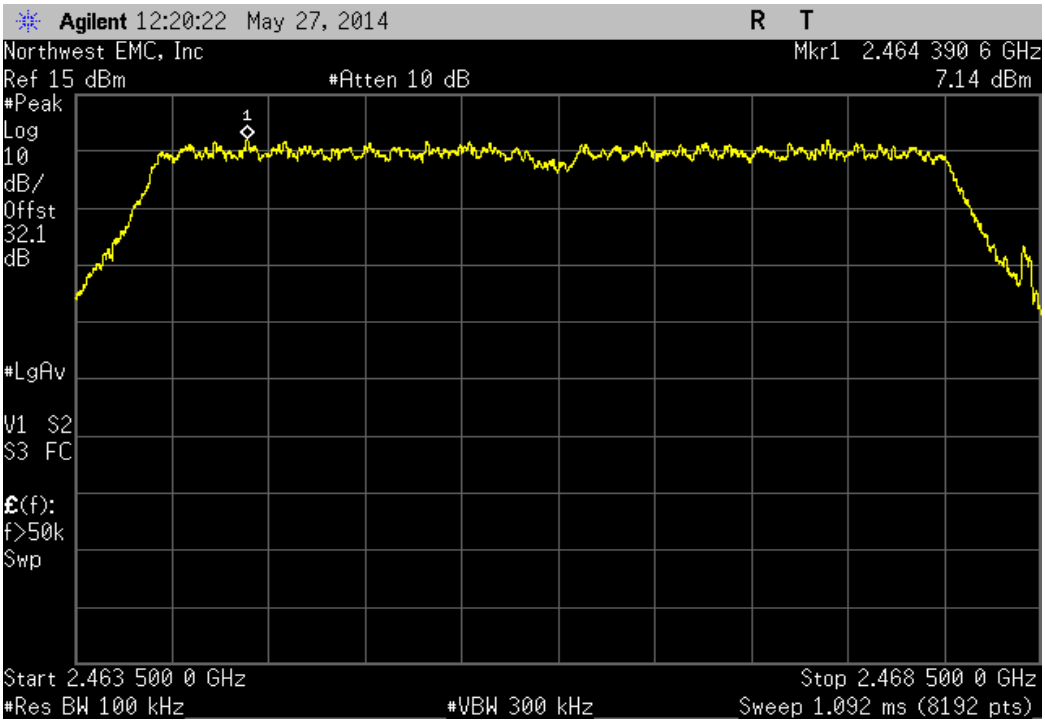


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.84 dBc	≤ -20 dBc	Pass

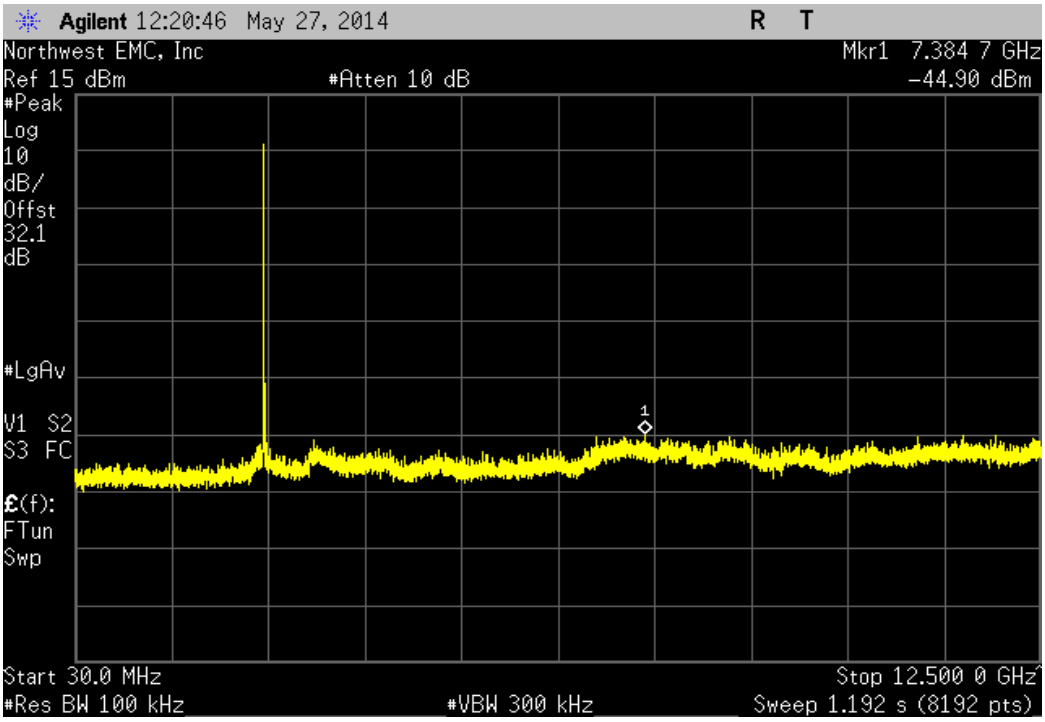


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

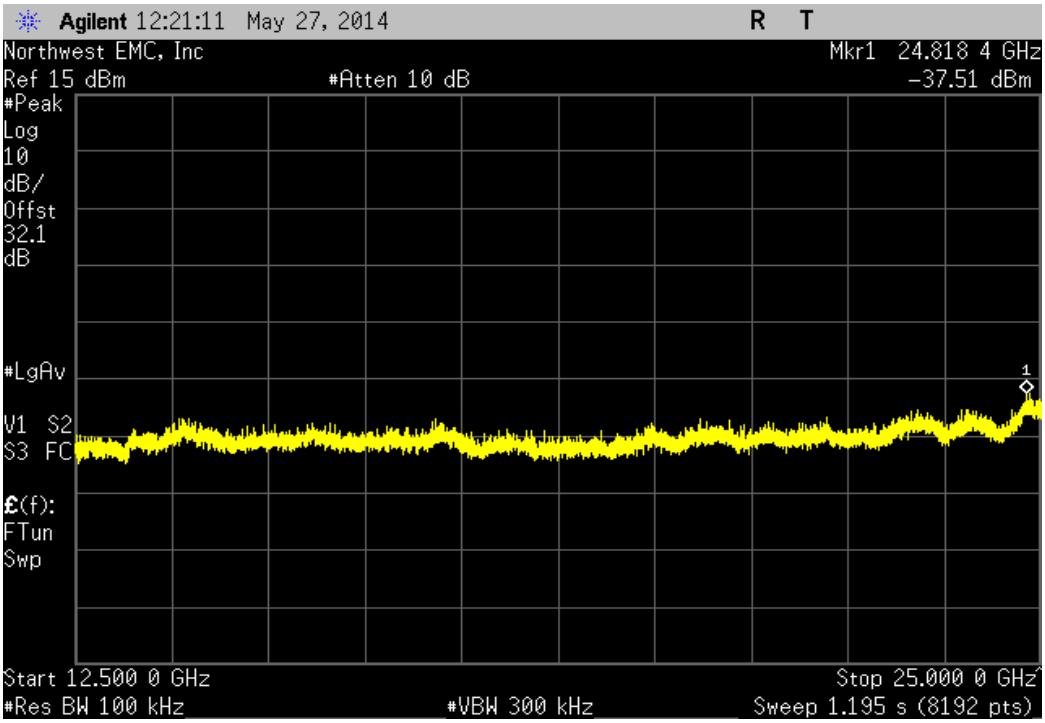


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.05 dBc	≤ -20 dBc	Pass

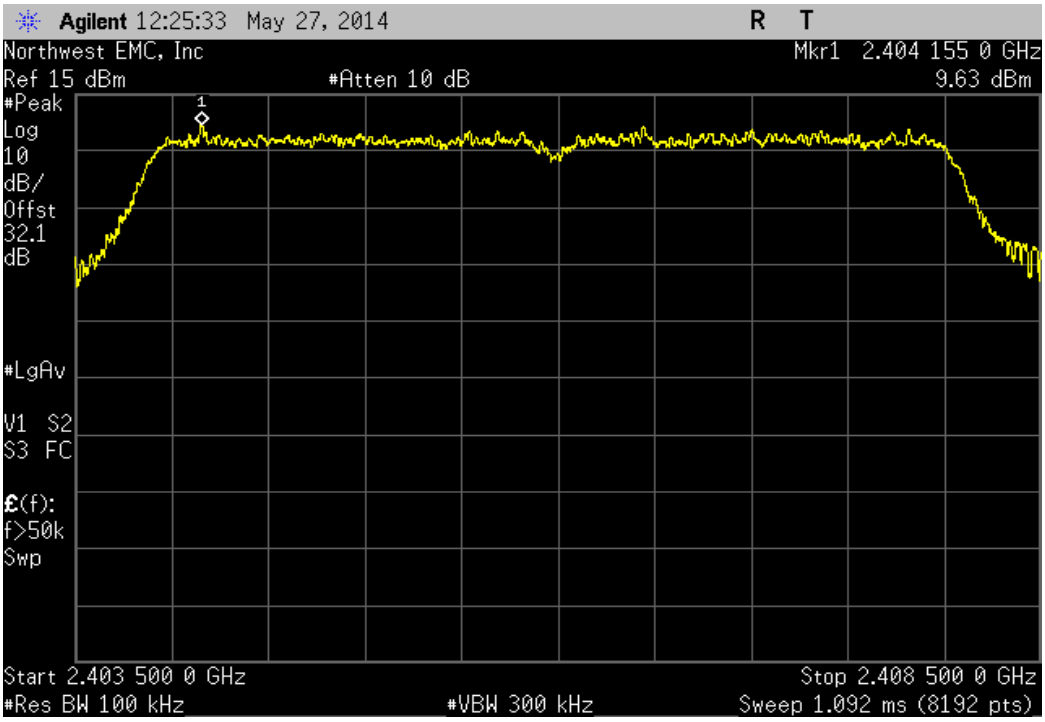


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.66 dBc	≤ -20 dBc	Pass

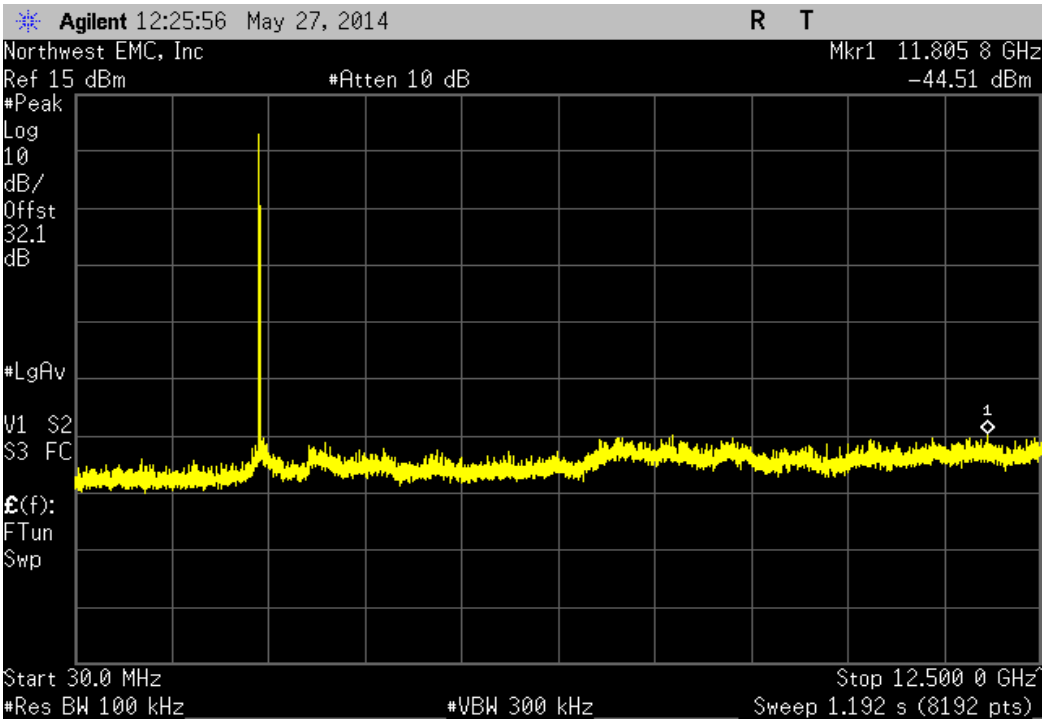


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

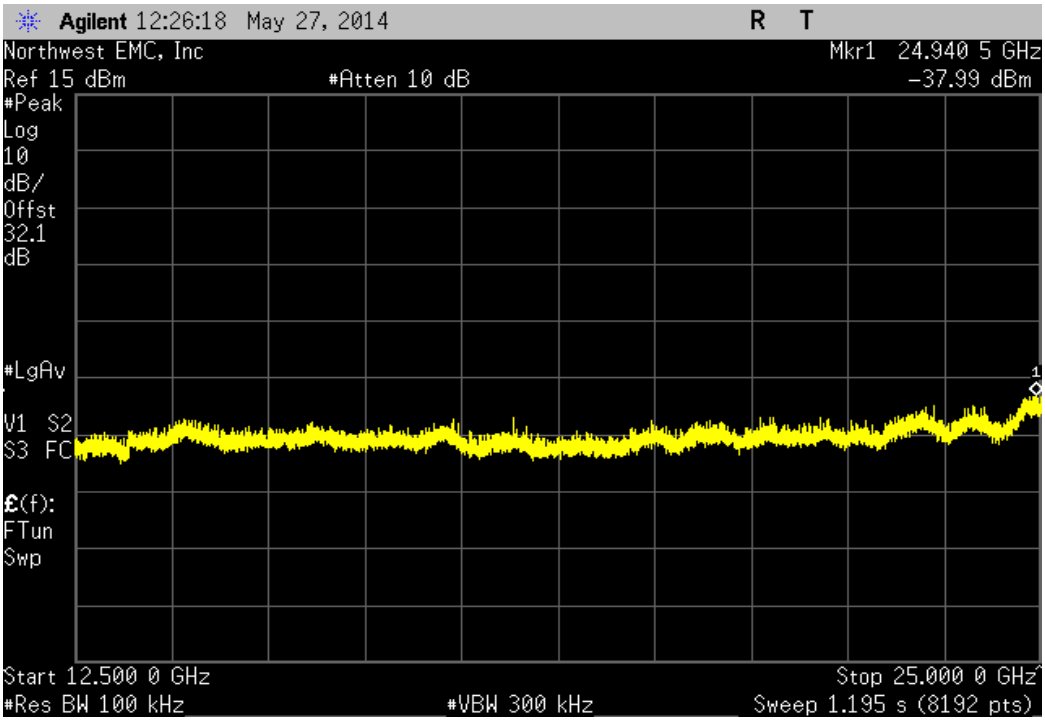


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.14 dBc	≤ -20 dBc	Pass

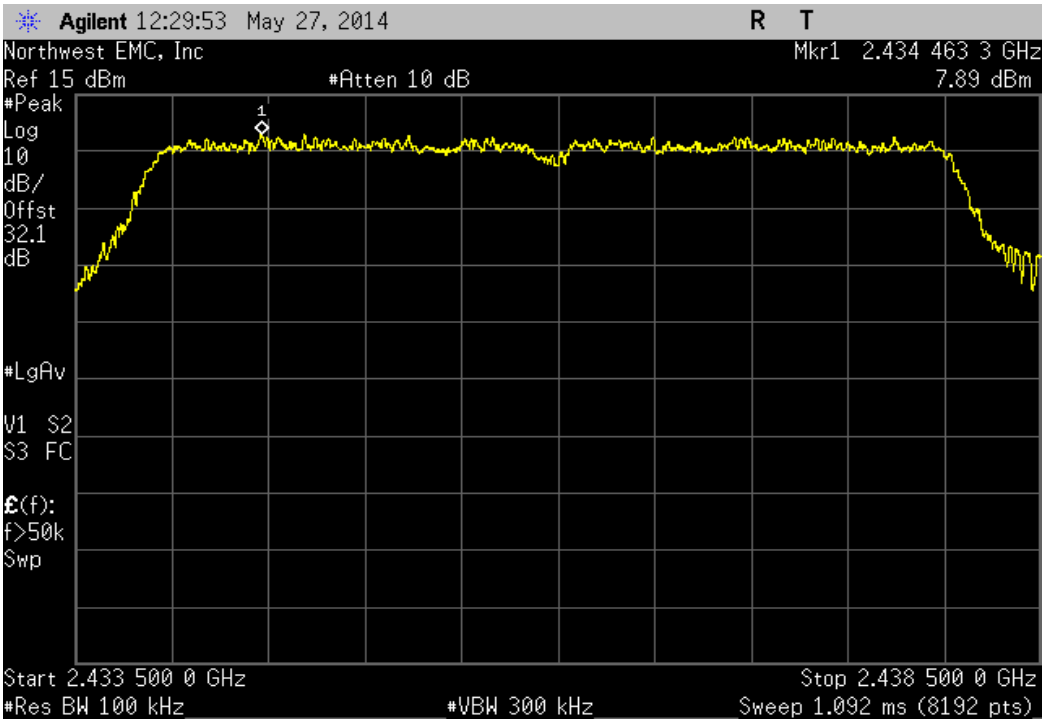


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-47.62 dBc	≤ -20 dBc	Pass

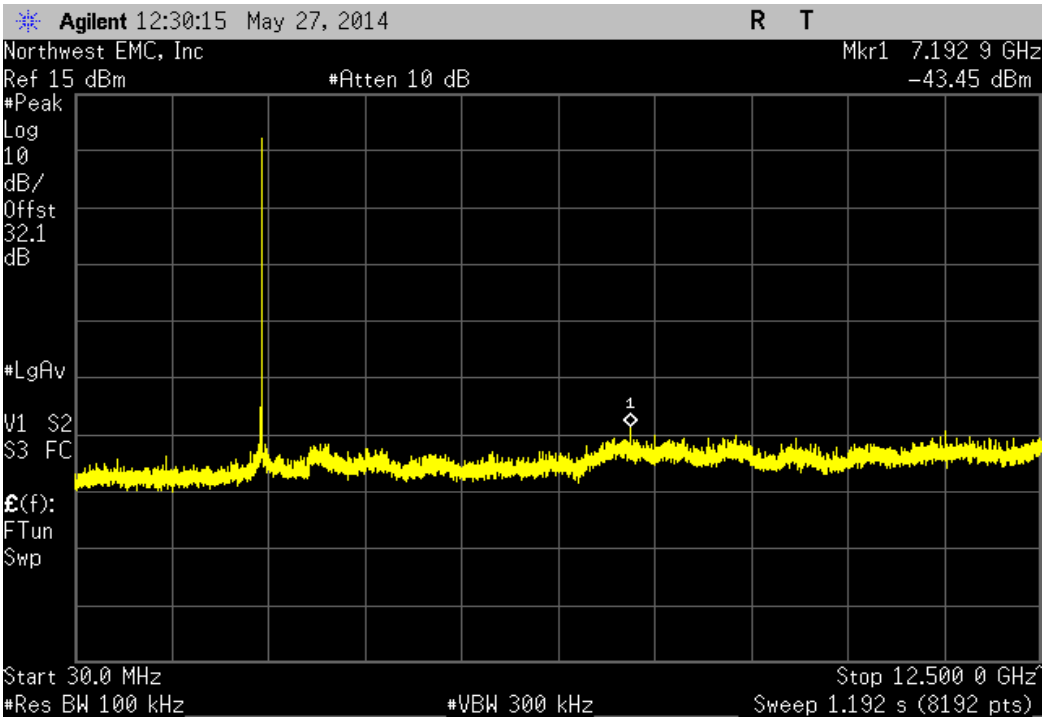


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

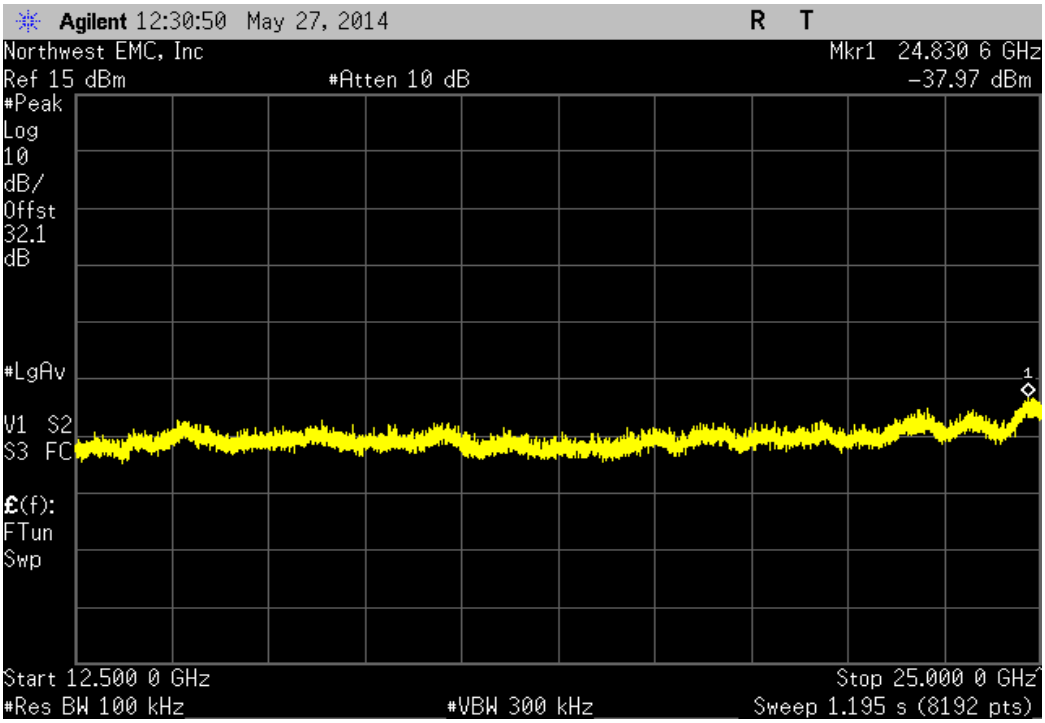


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.34 dBc	≤ -20 dBc	Pass

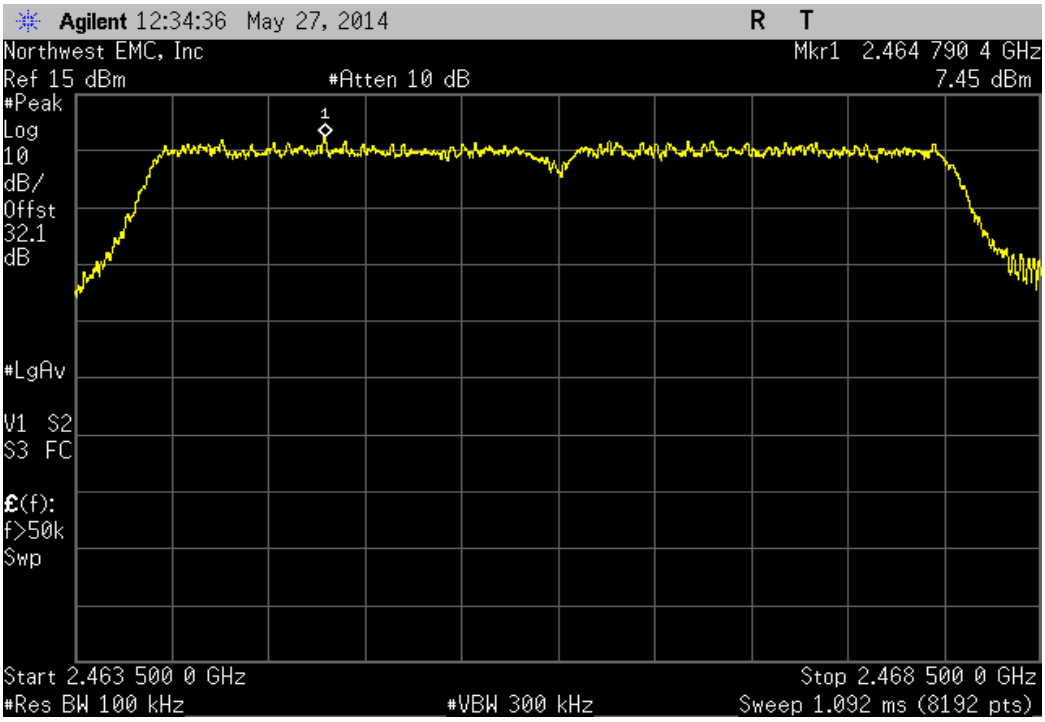


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.86 dBc	≤ -20 dBc	Pass

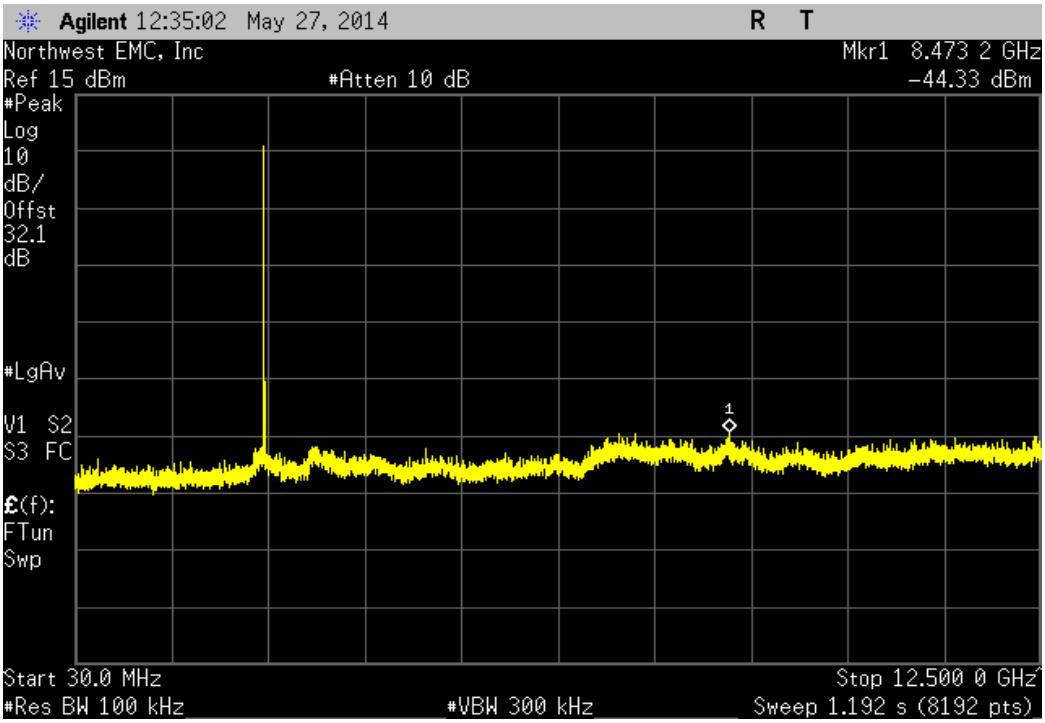


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

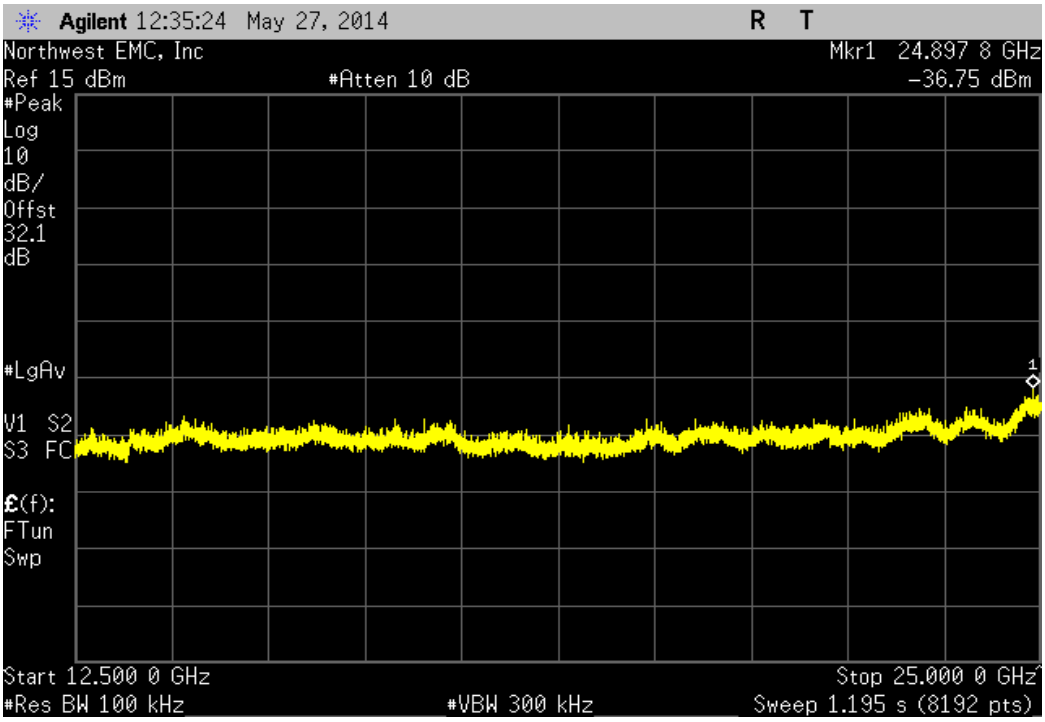


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.78 dBc	≤ -20 dBc	Pass

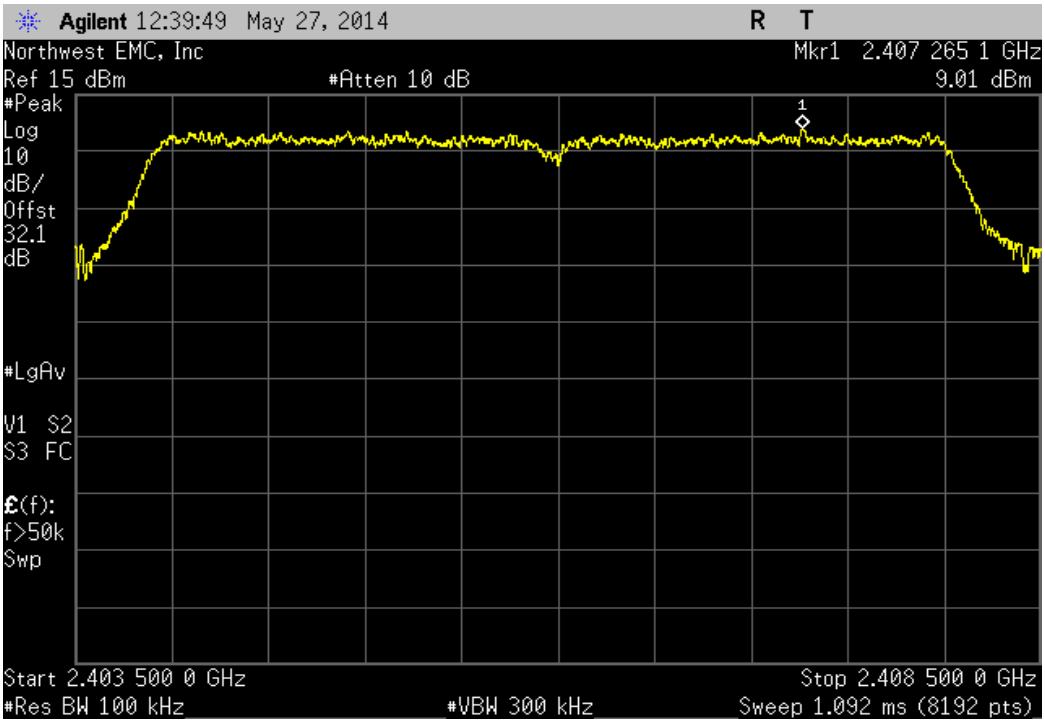


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 36 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.2 dBc	≤ -20 dBc	Pass

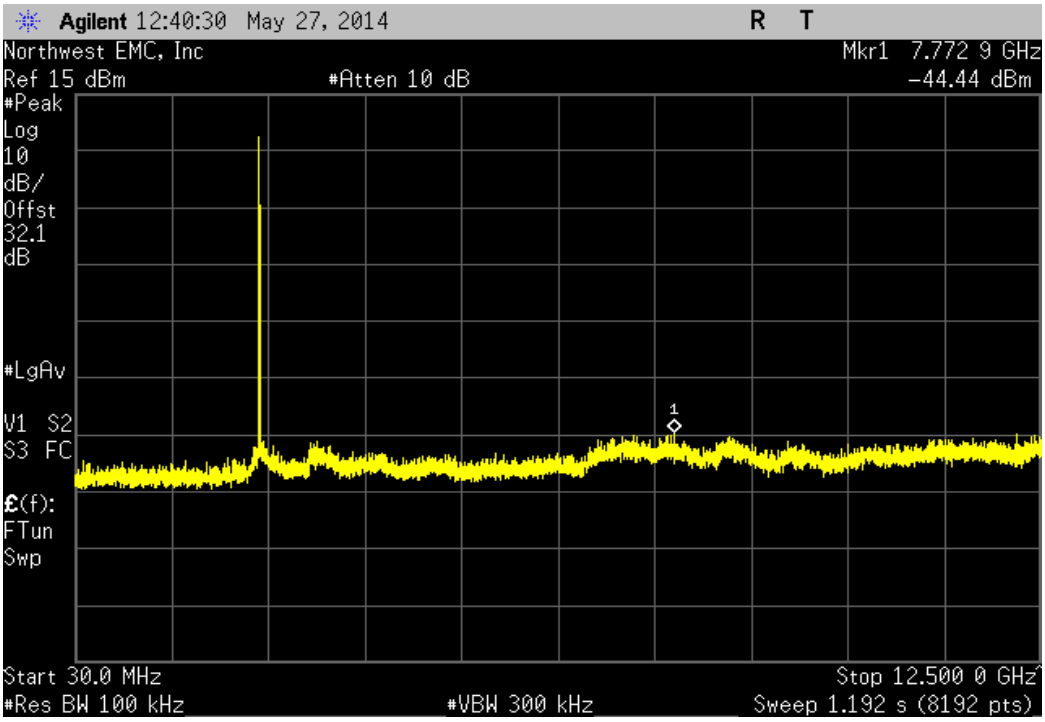


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

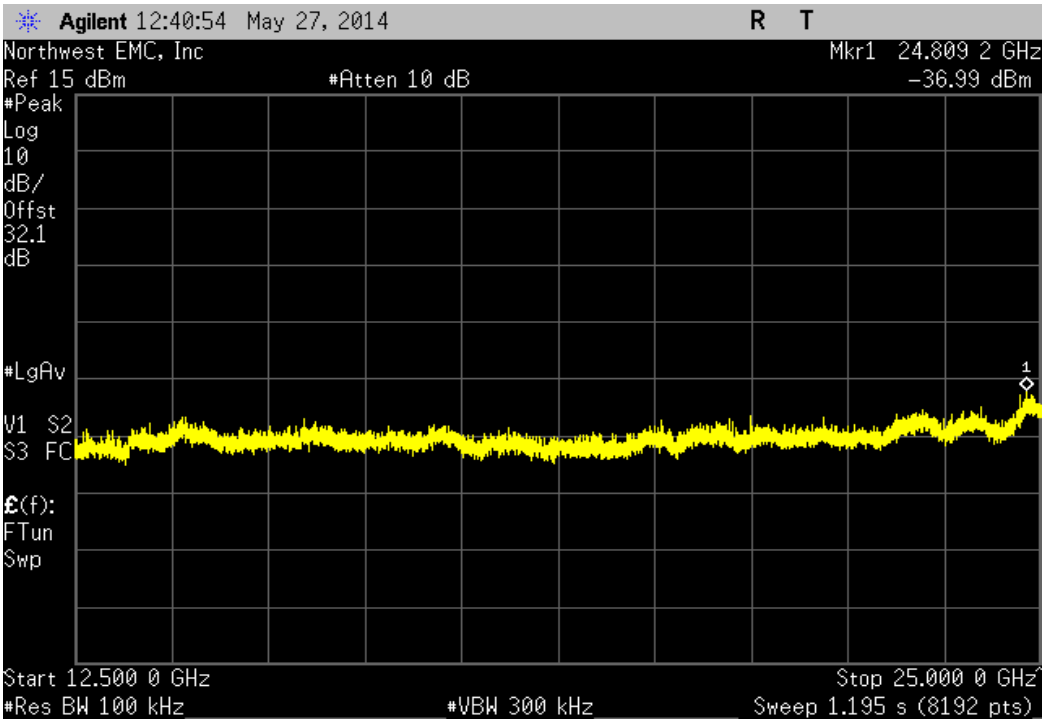


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.45 dBc	≤ -20 dBc	Pass

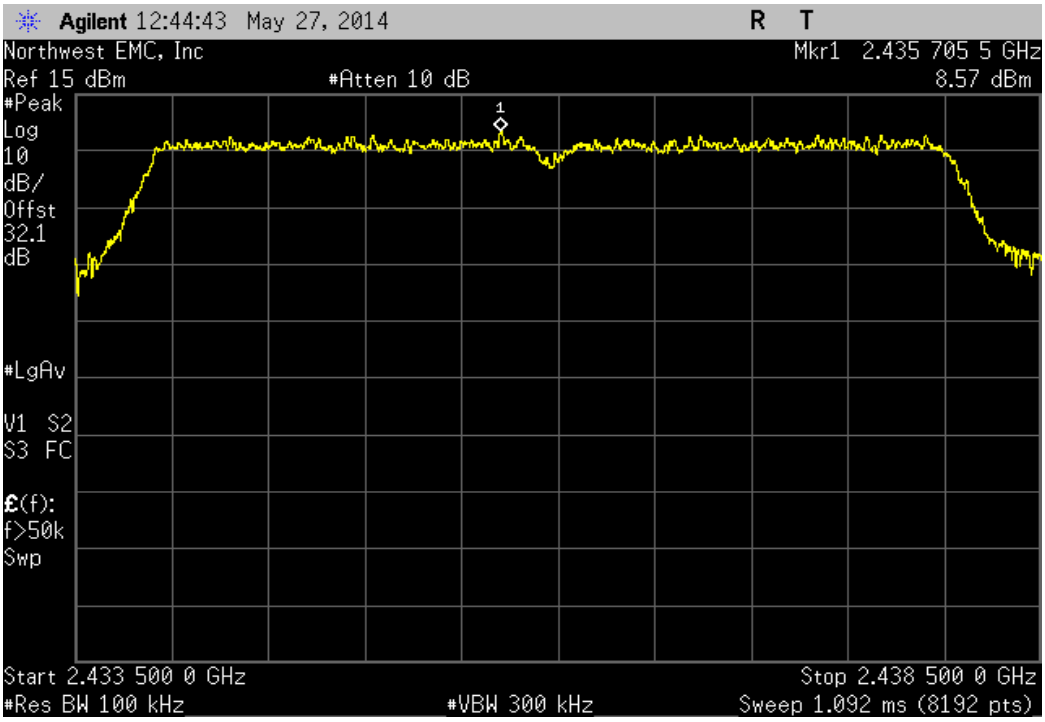


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-46 dBc	≤ -20 dBc	Pass

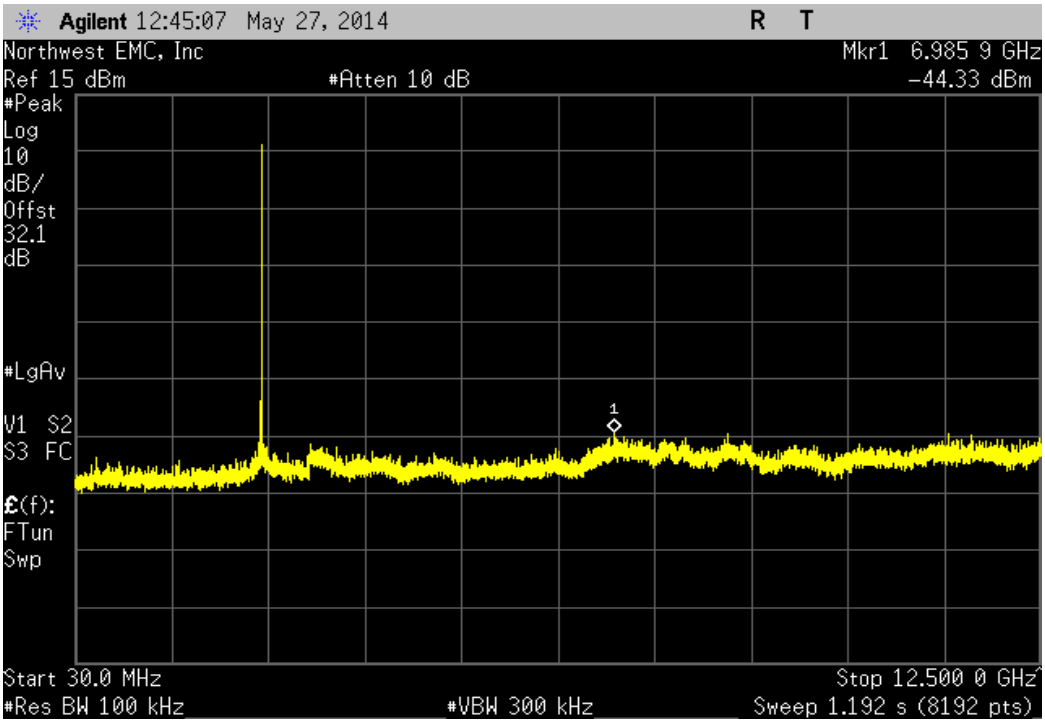


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

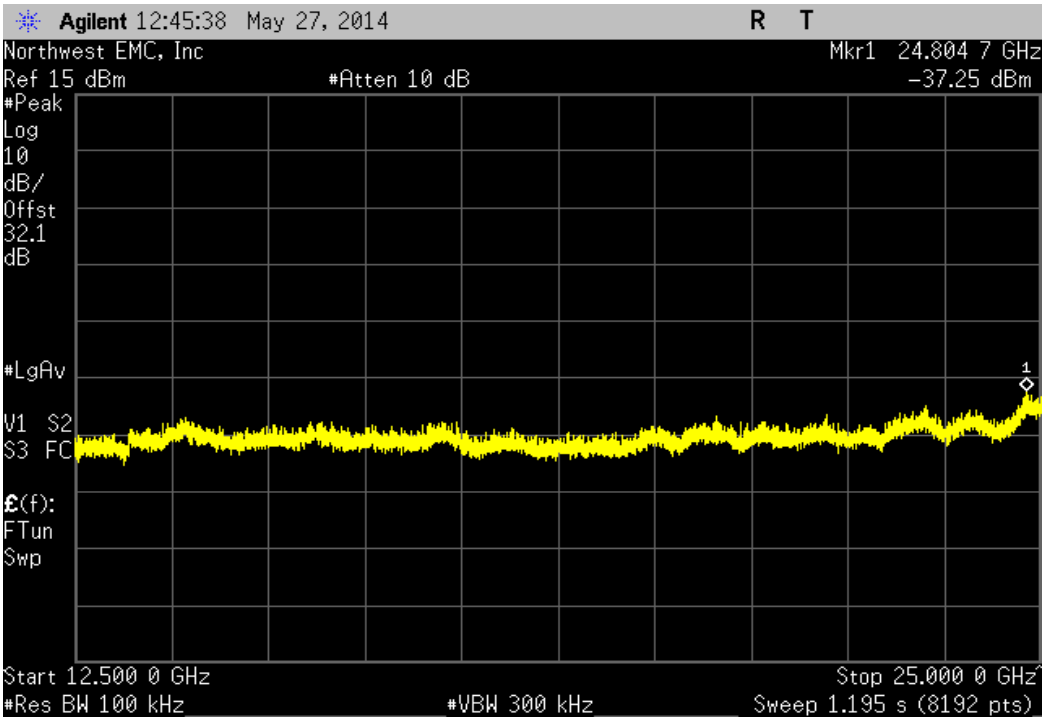


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.9 dBc	≤ -20 dBc	Pass

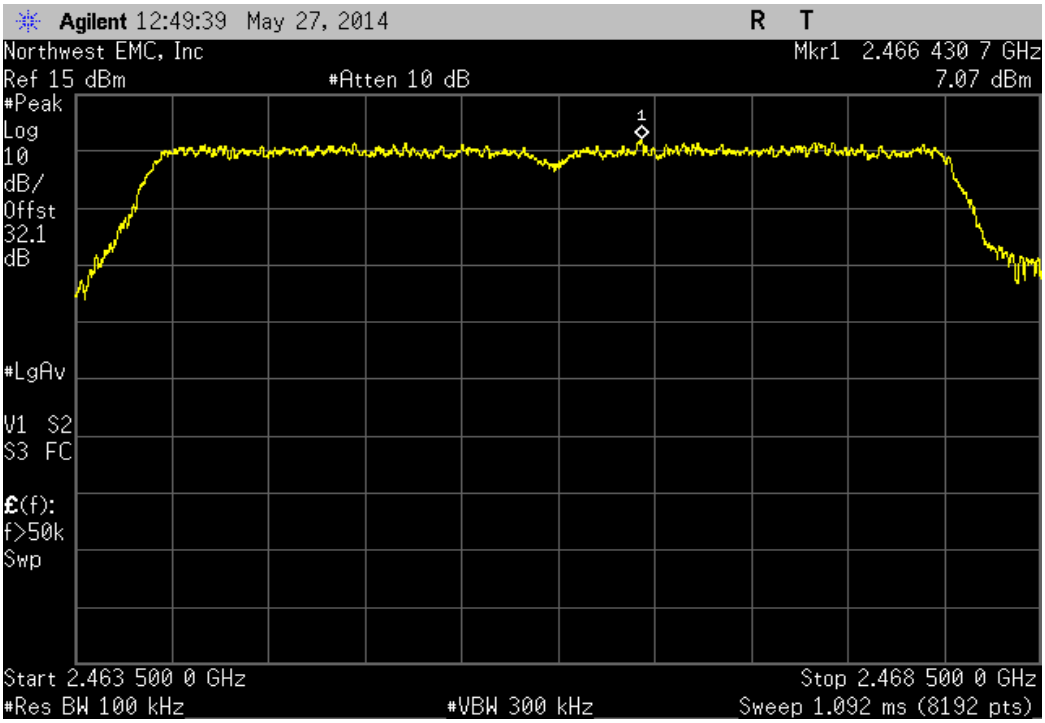


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.82 dBc	≤ -20 dBc	Pass

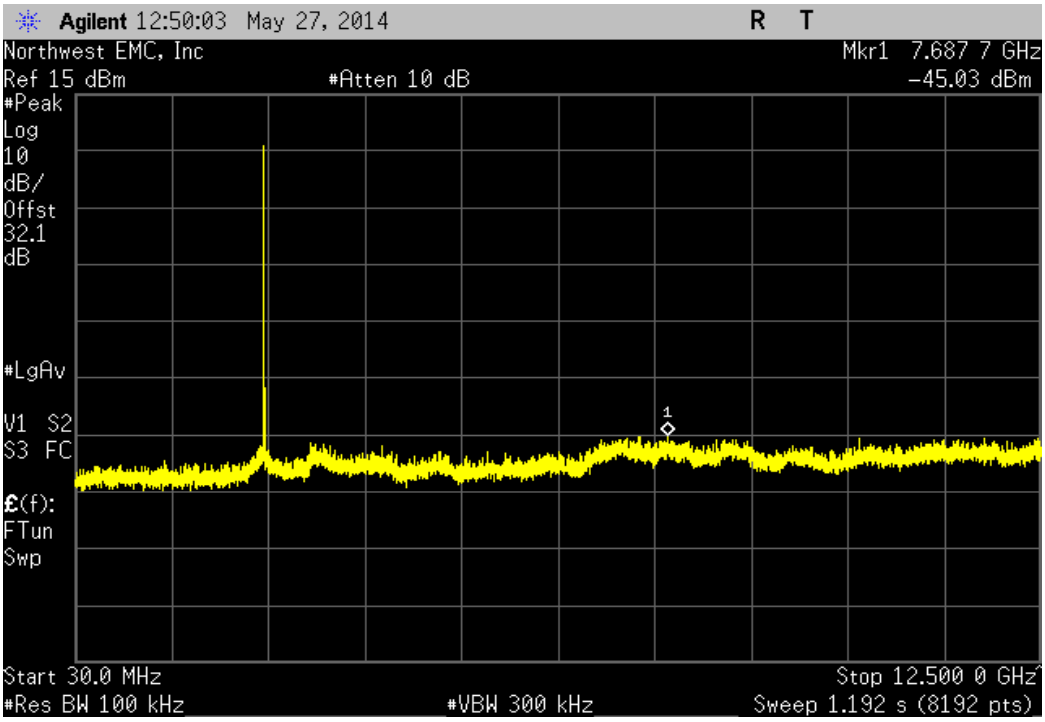


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

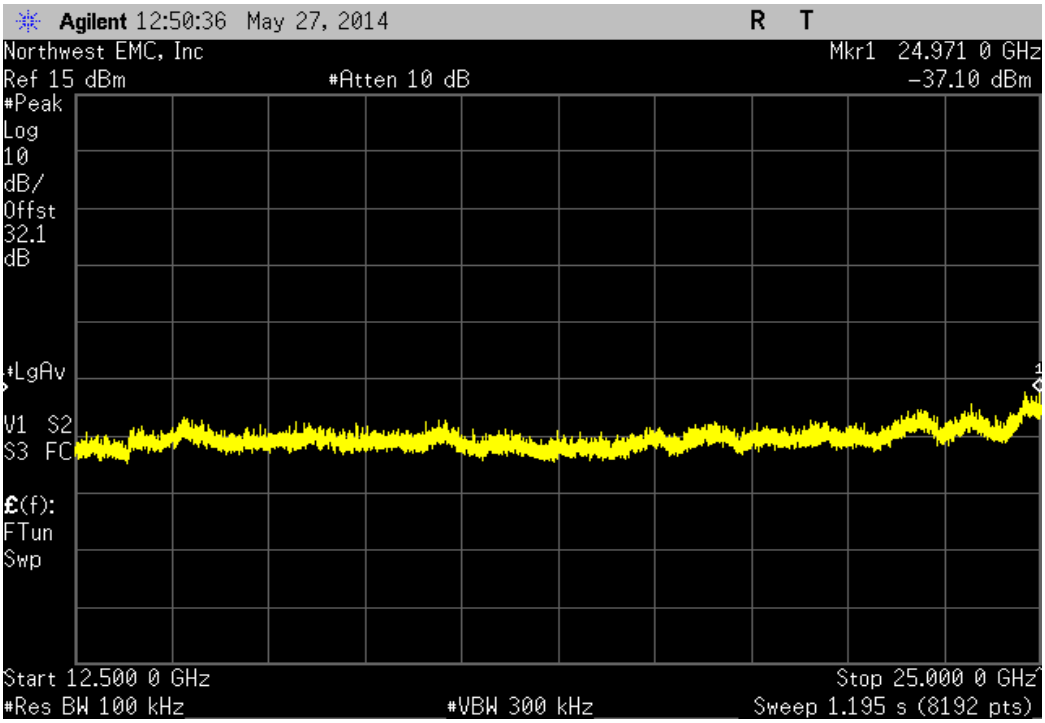


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-52.1 dBc	≤ -20 dBc	Pass

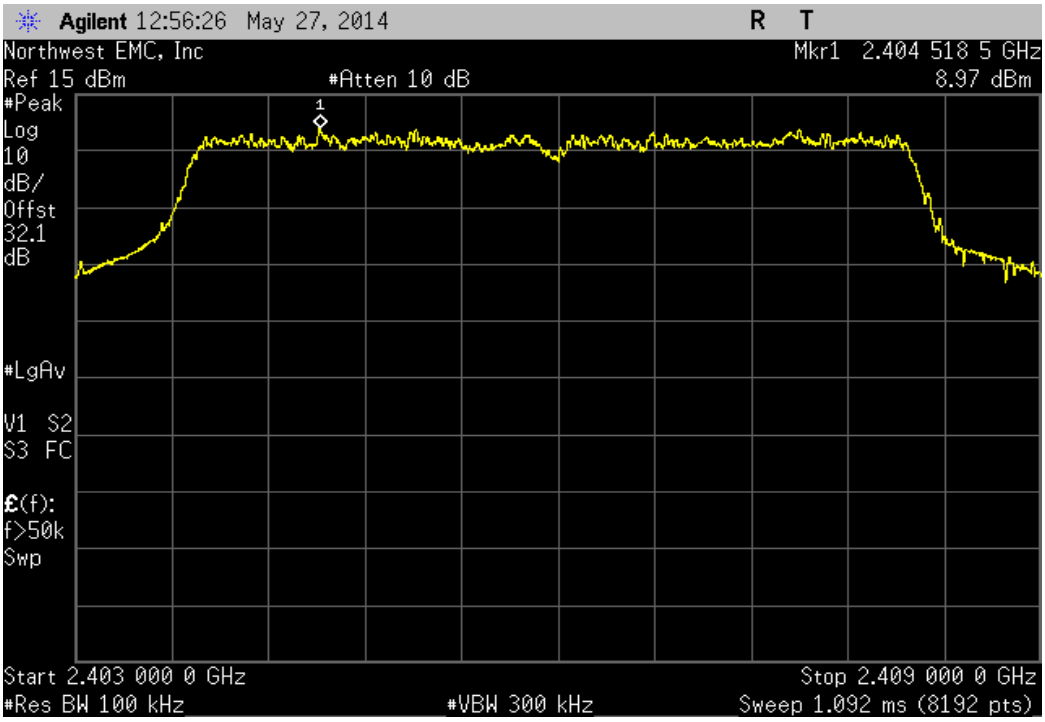


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(g) 54 Mbps, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.17 dBc	≤ -20 dBc	Pass

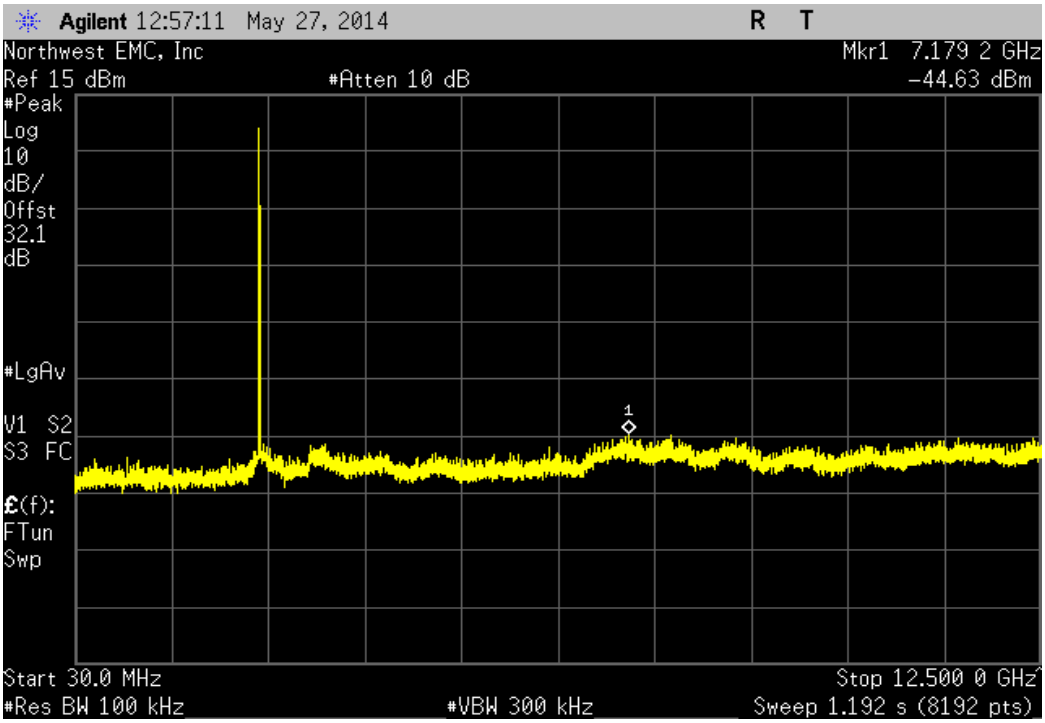


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

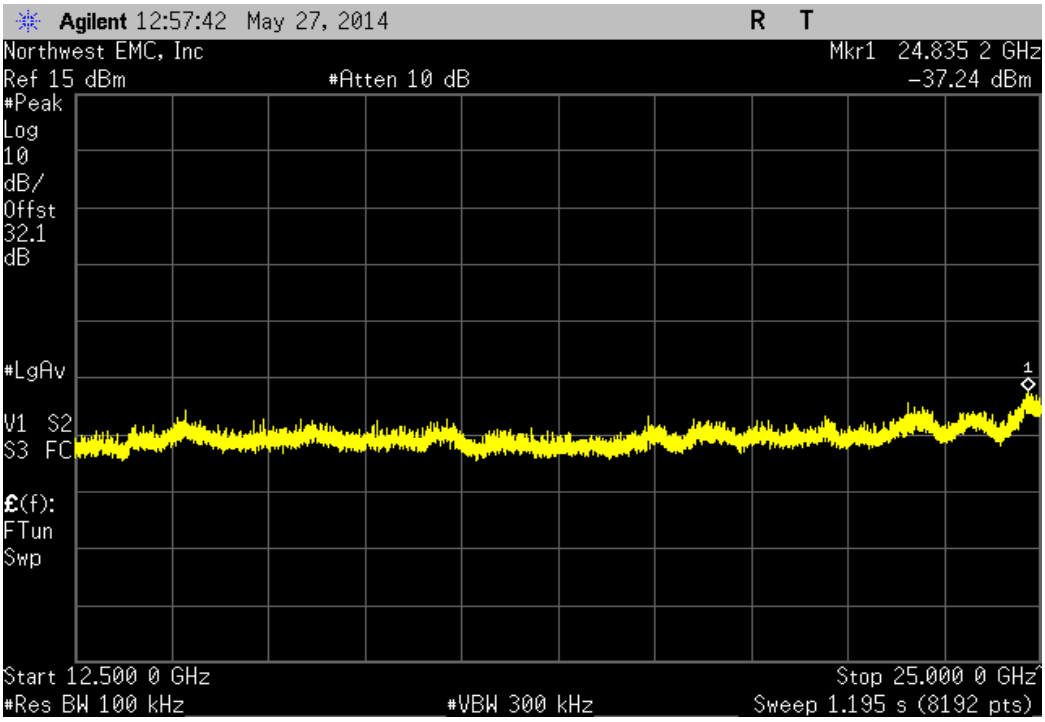


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.6 dBc	≤ -20 dBc	Pass

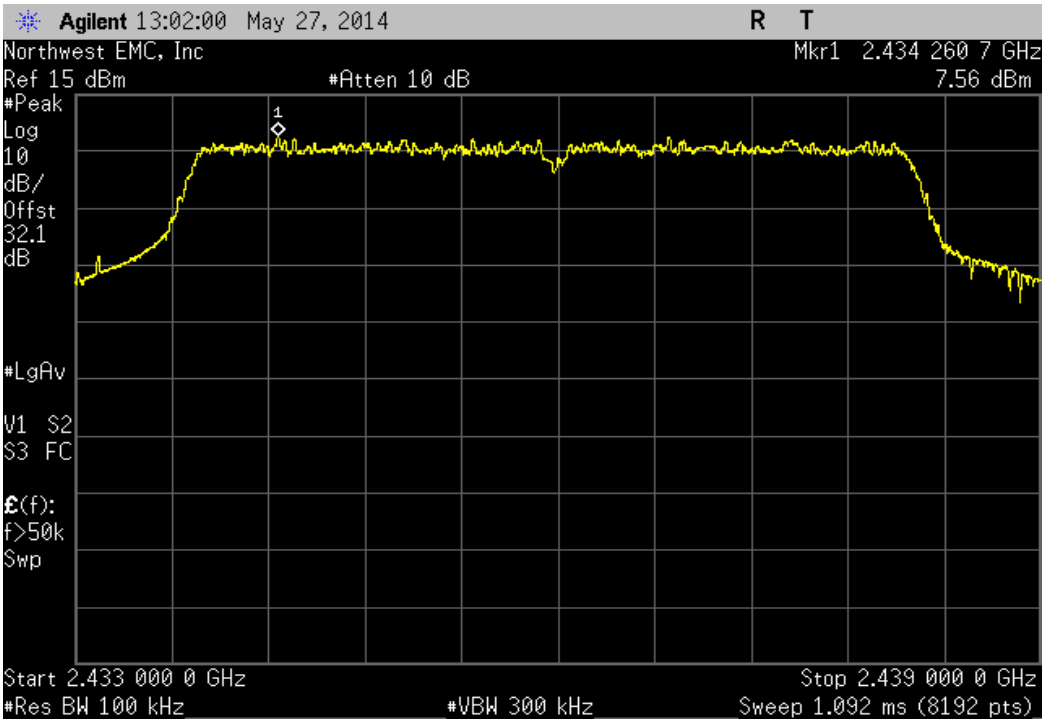


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-46.21 dBc	≤ -20 dBc	Pass

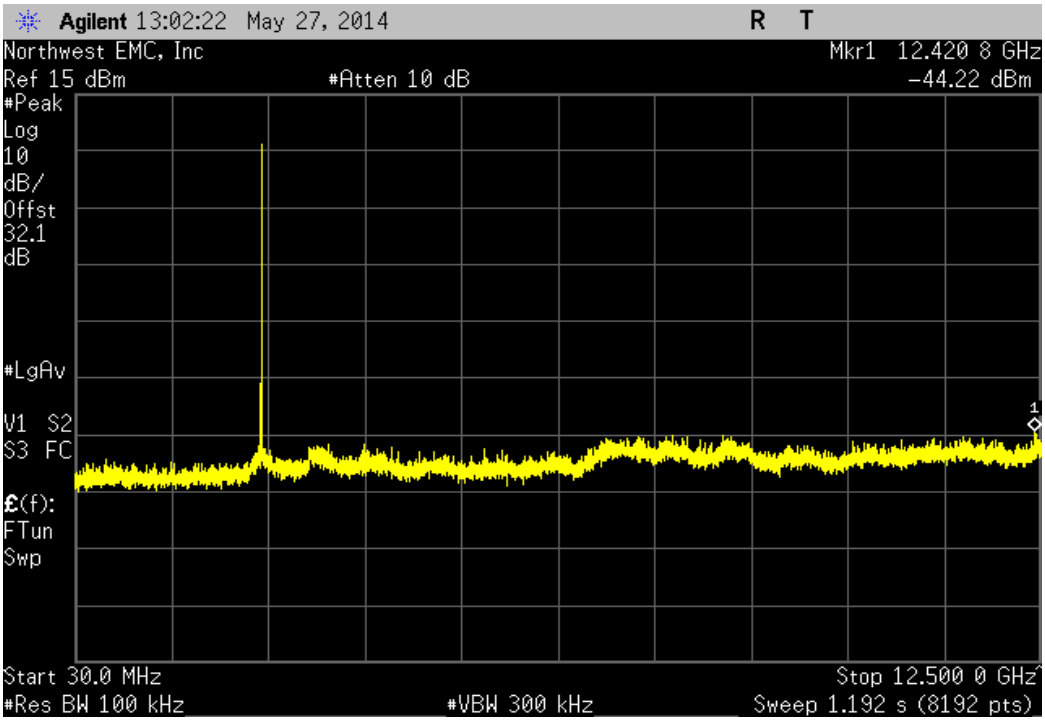


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A

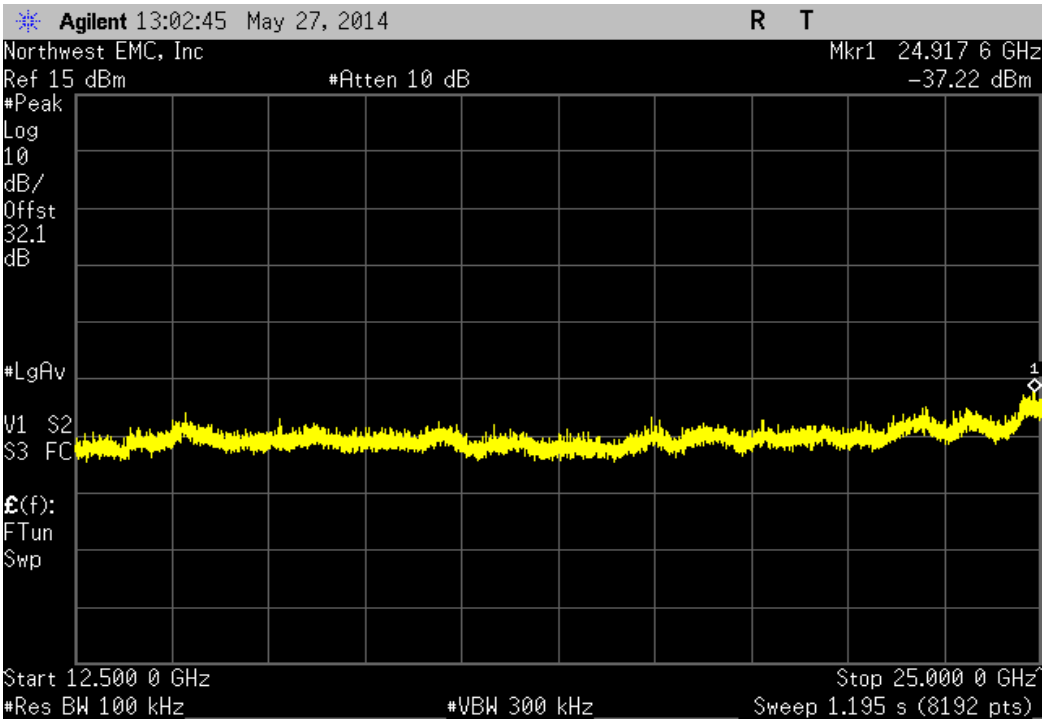


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.78 dBc	≤ -20 dBc	Pass

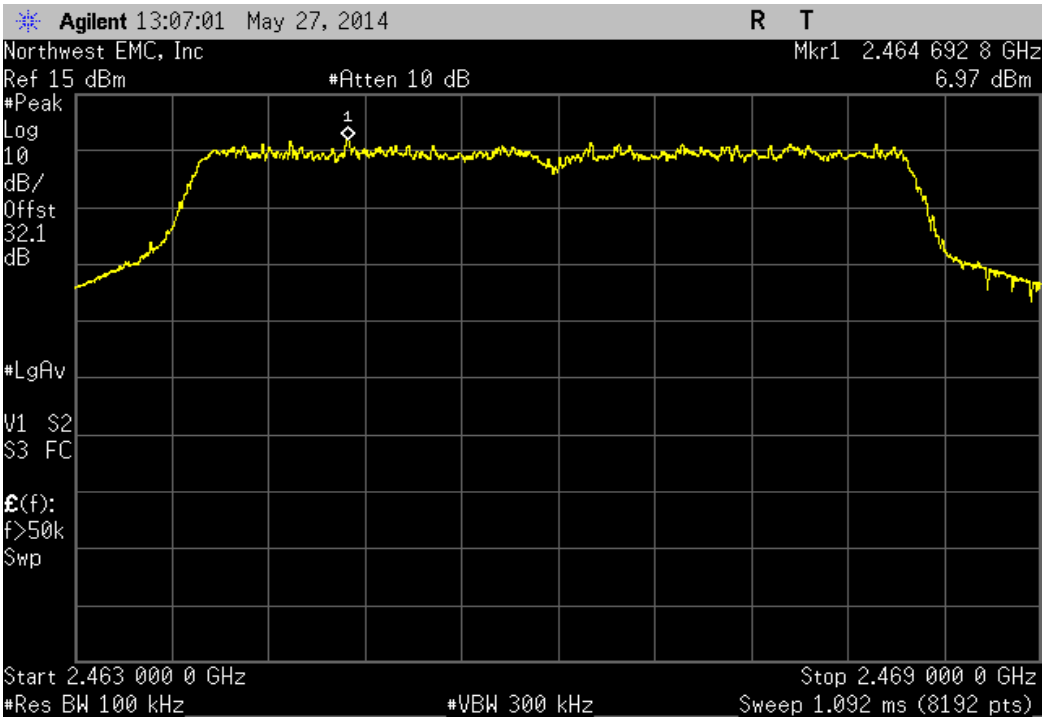


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.78 dBc	≤ -20 dBc	Pass

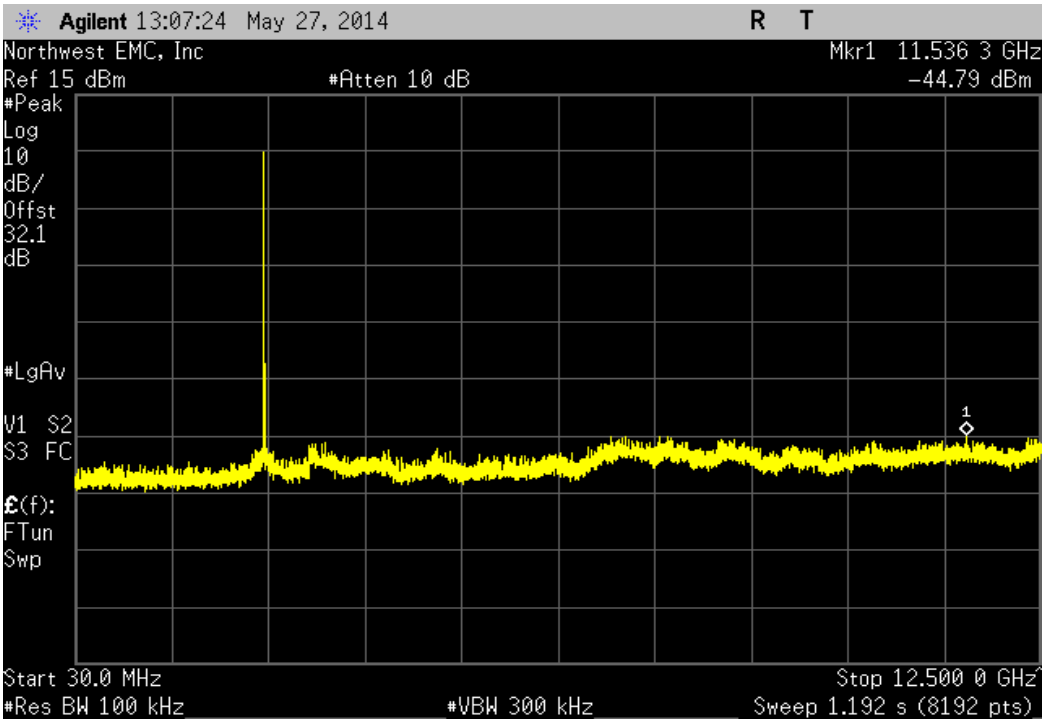


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

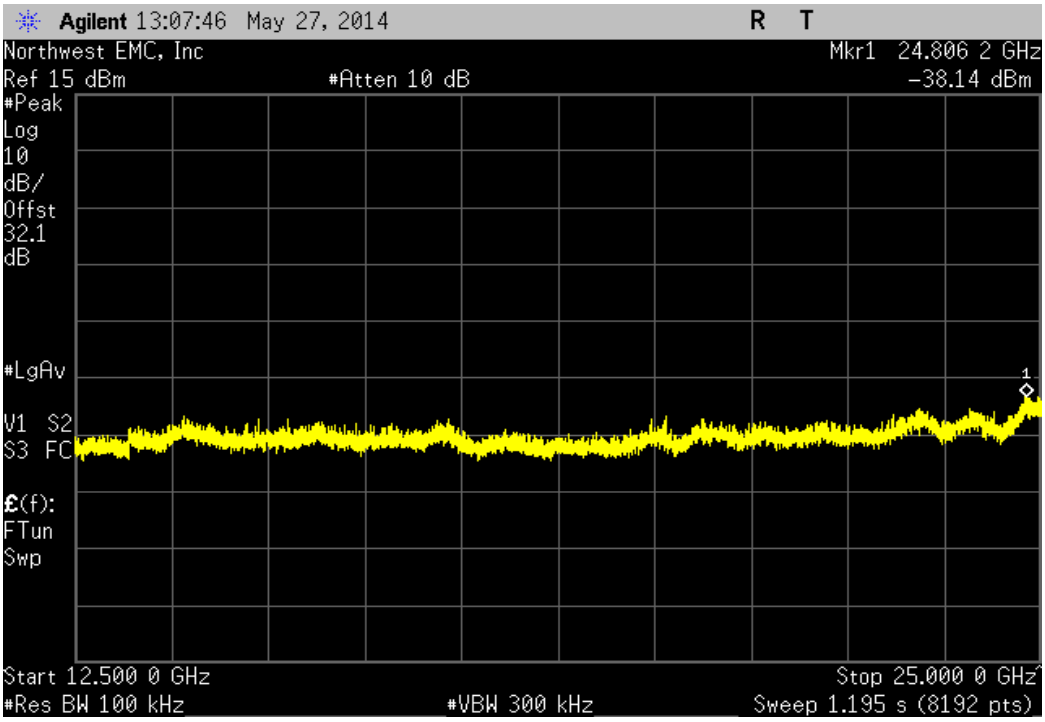


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.76 dBc	≤ -20 dBc	Pass

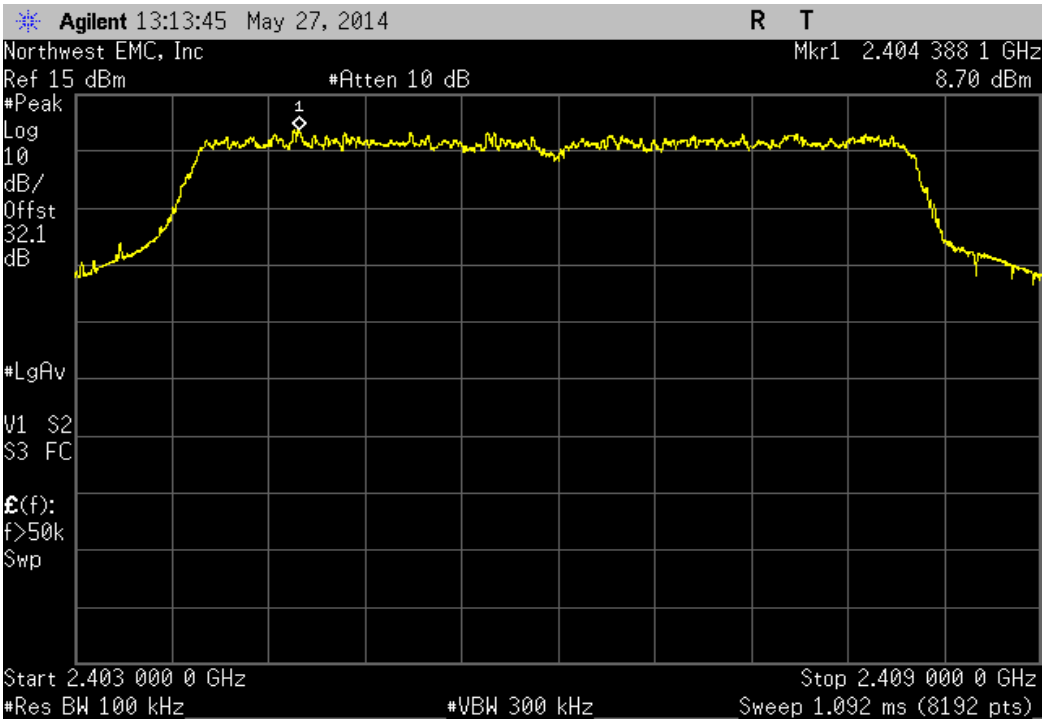


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS0, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.11 dBc	≤ -20 dBc	Pass

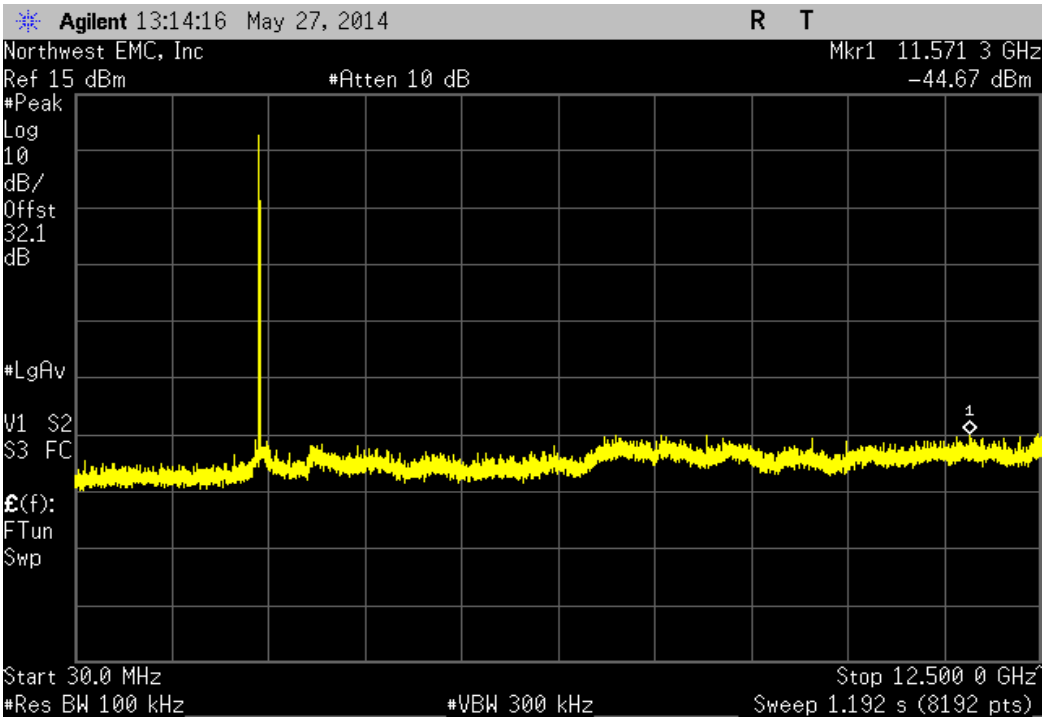


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2406 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

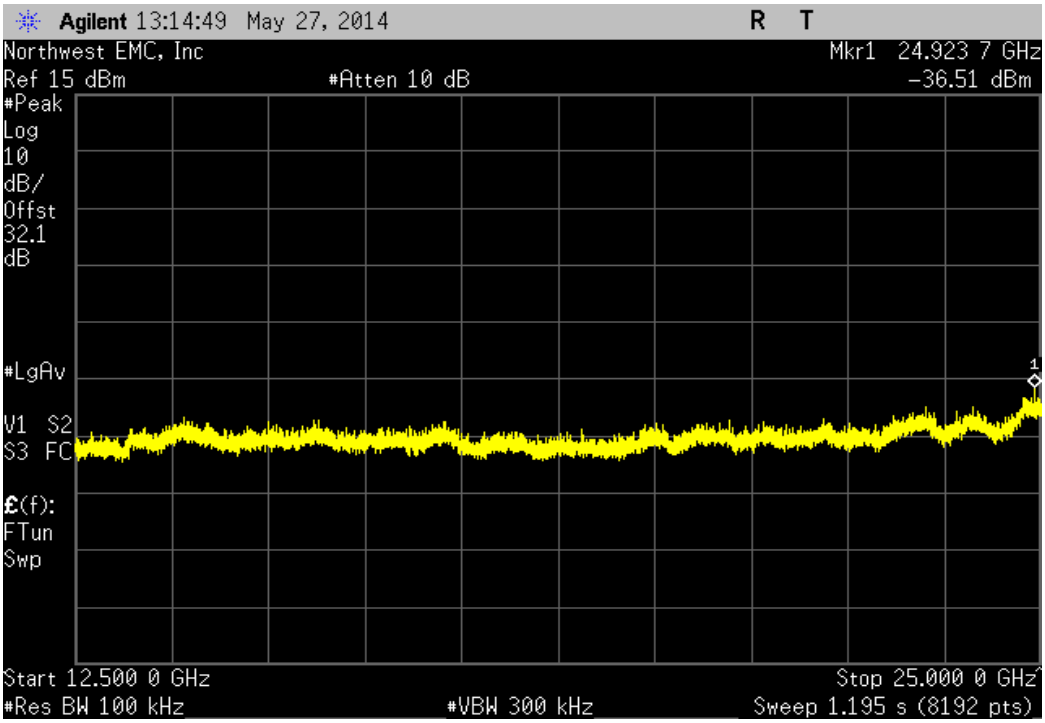


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-53.37 dBc	≤ -20 dBc	Pass

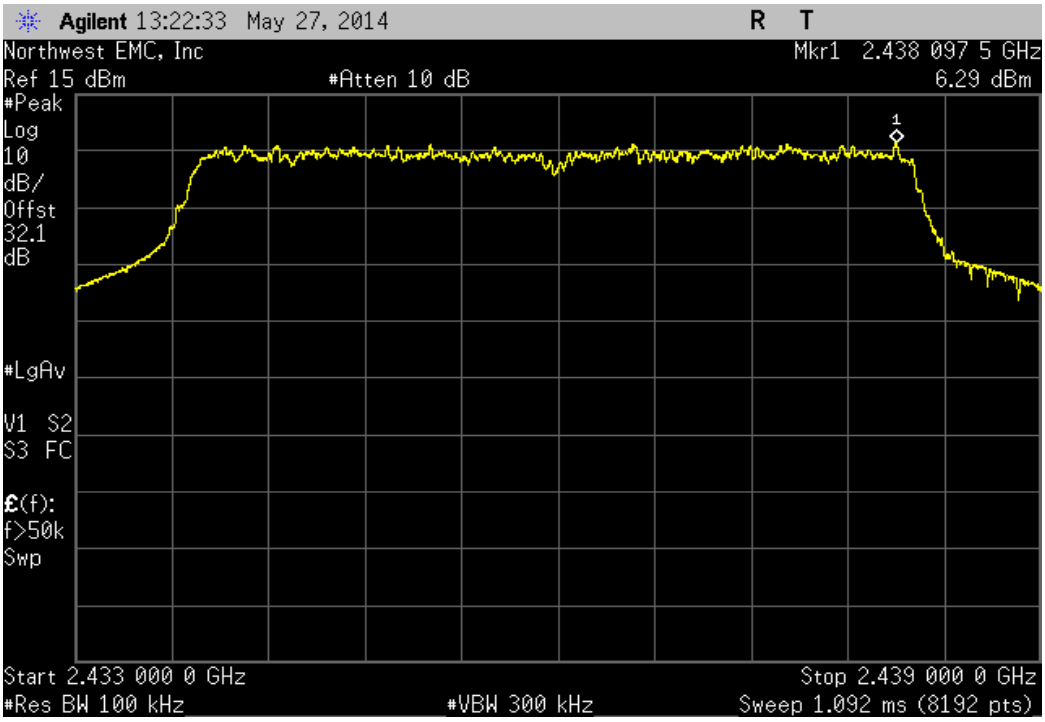


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Low Channel 2406 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-45.21 dBc	≤ -20 dBc	Pass

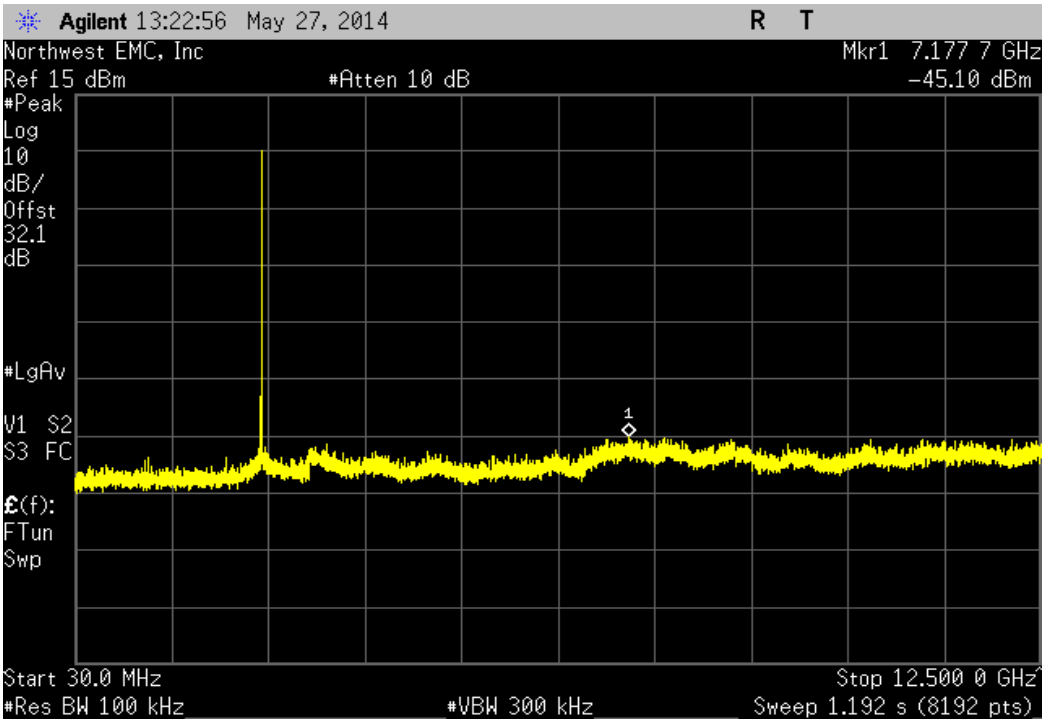


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2436 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

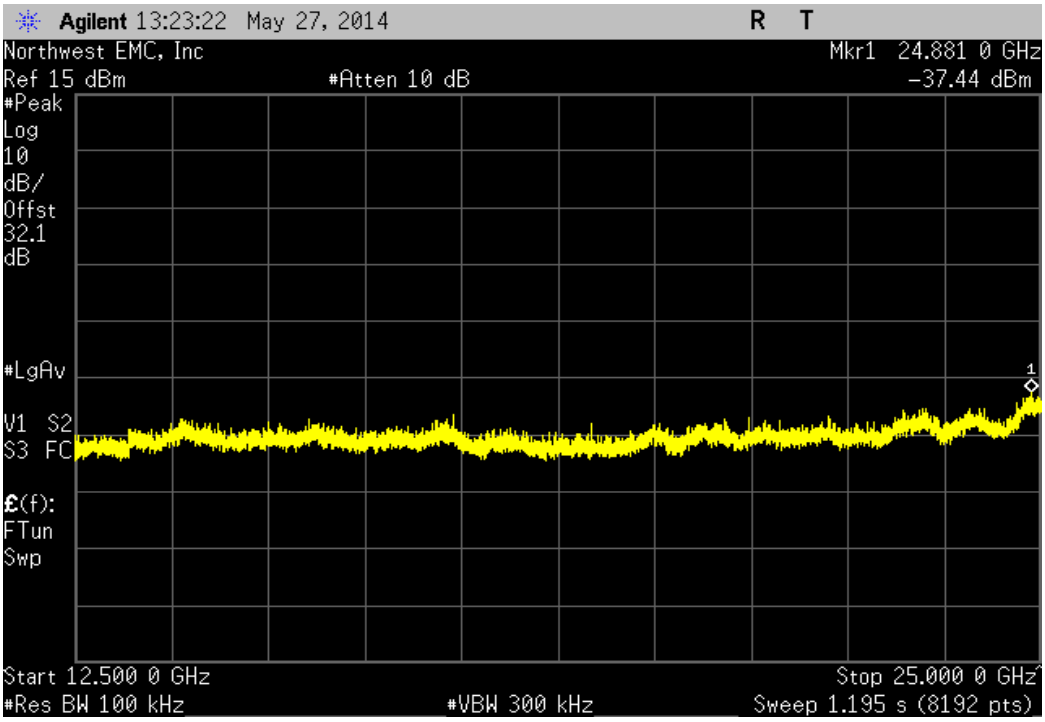


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-51.39 dBc	≤ -20 dBc	Pass

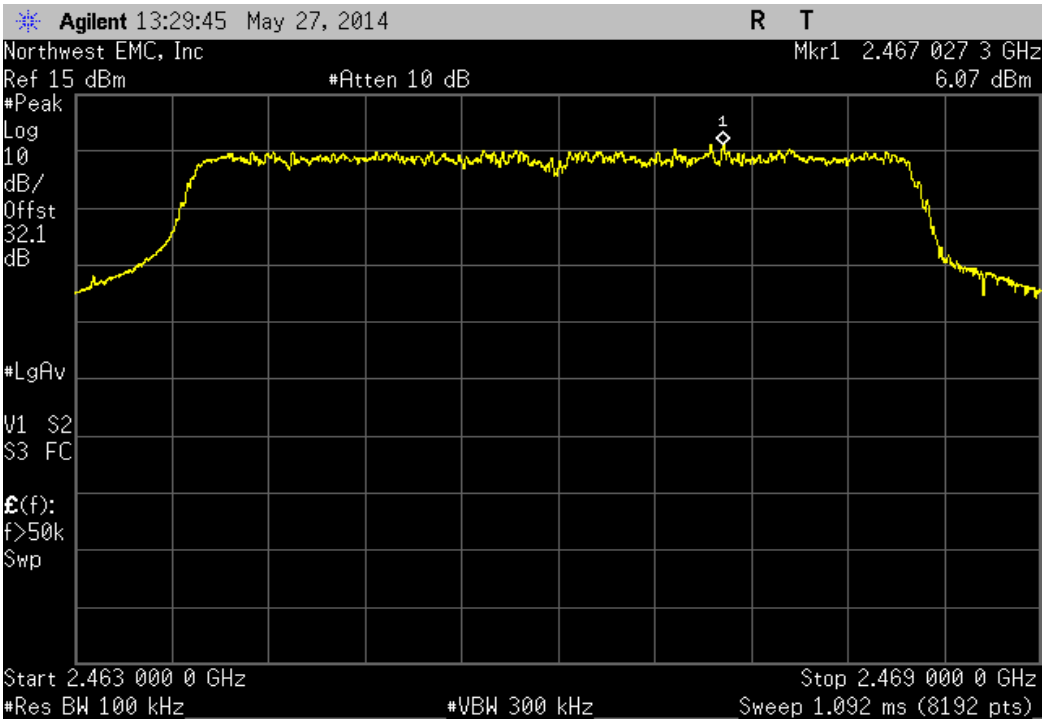


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2436 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-43.73 dBc	≤ -20 dBc	Pass

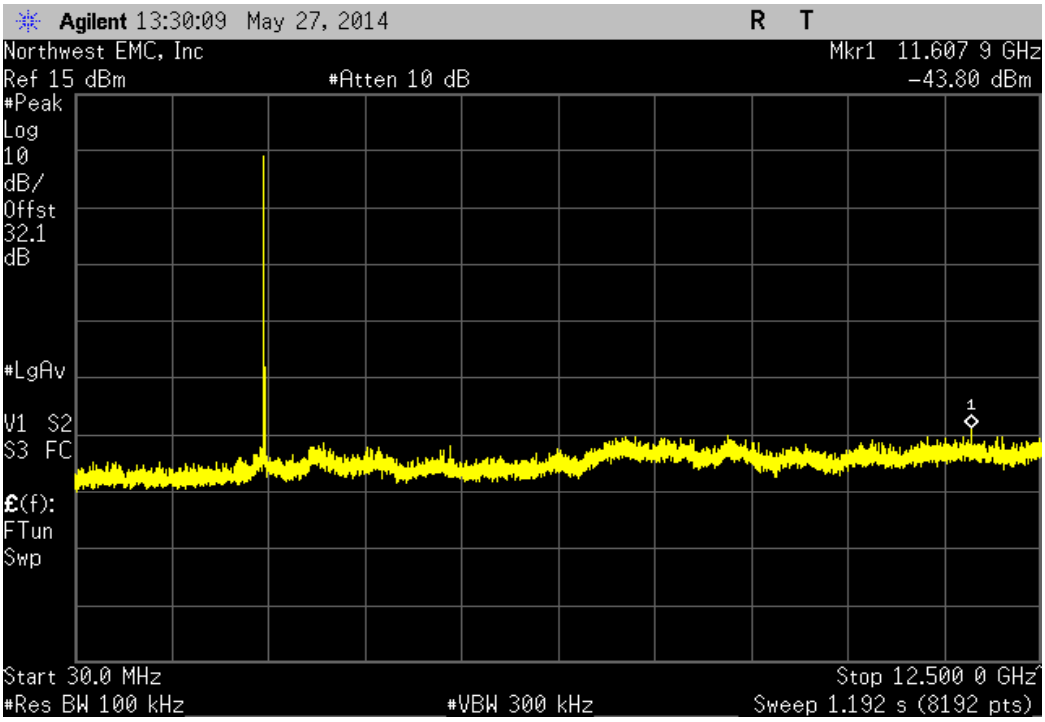


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, High Channel 2466 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

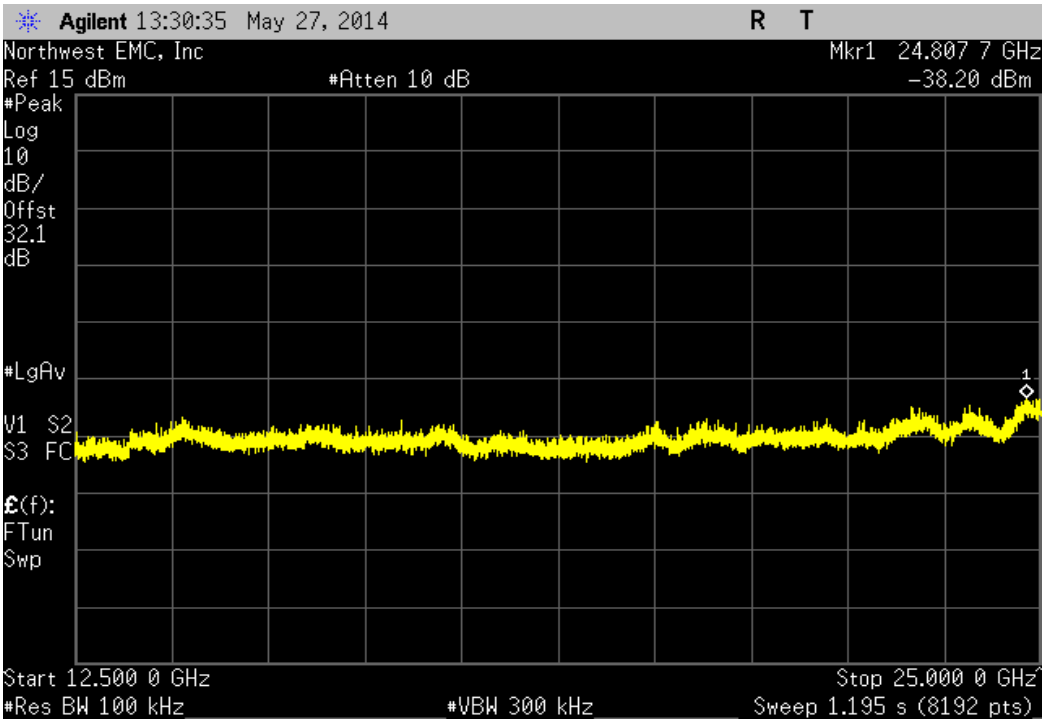


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-49.88 dBc	≤ -20 dBc	Pass

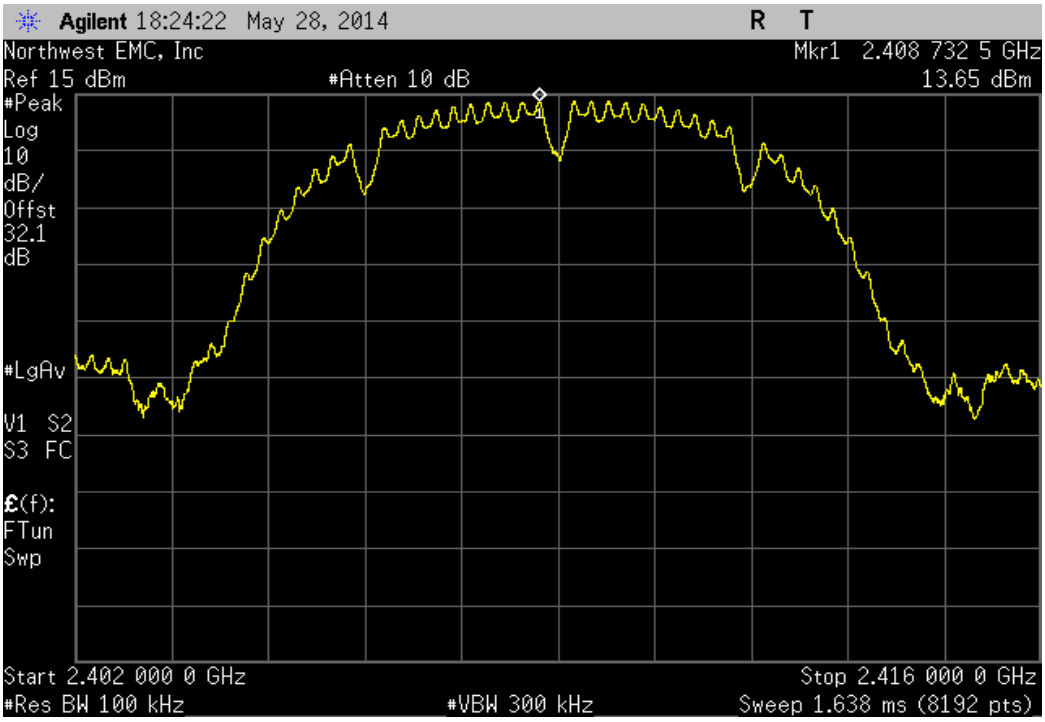


2400 MHz - 2483.5 MHz Band, 5MHz Bandwidth , 802.11(n) MCS7, High Channel 2466 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-44.28 dBc	≤ -20 dBc	Pass

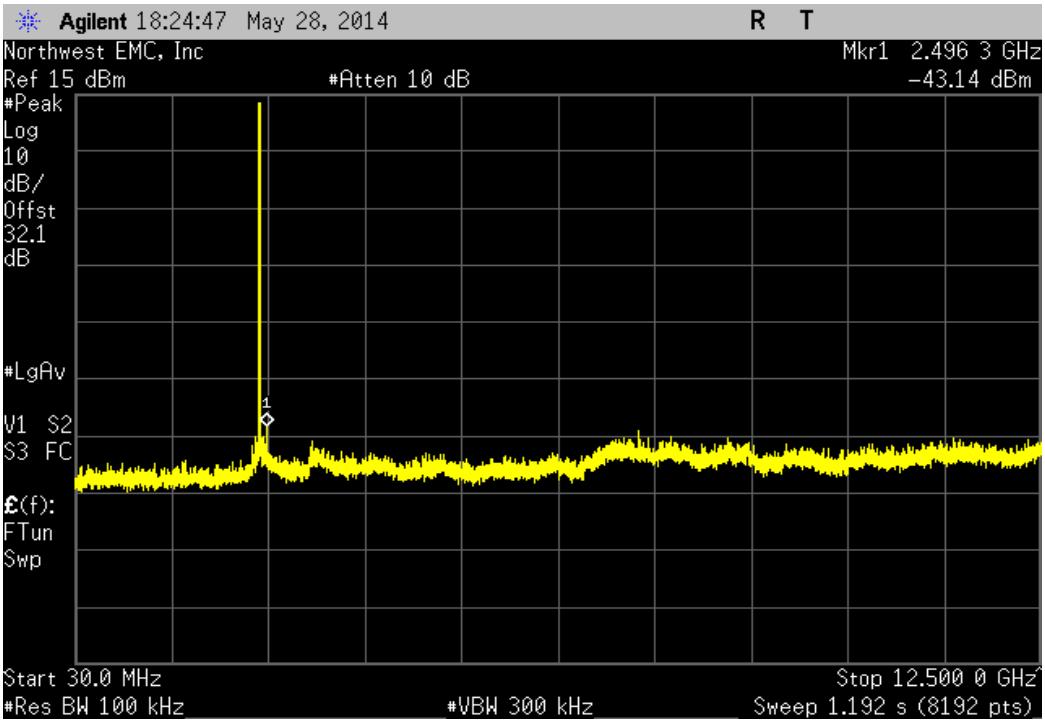


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2409 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

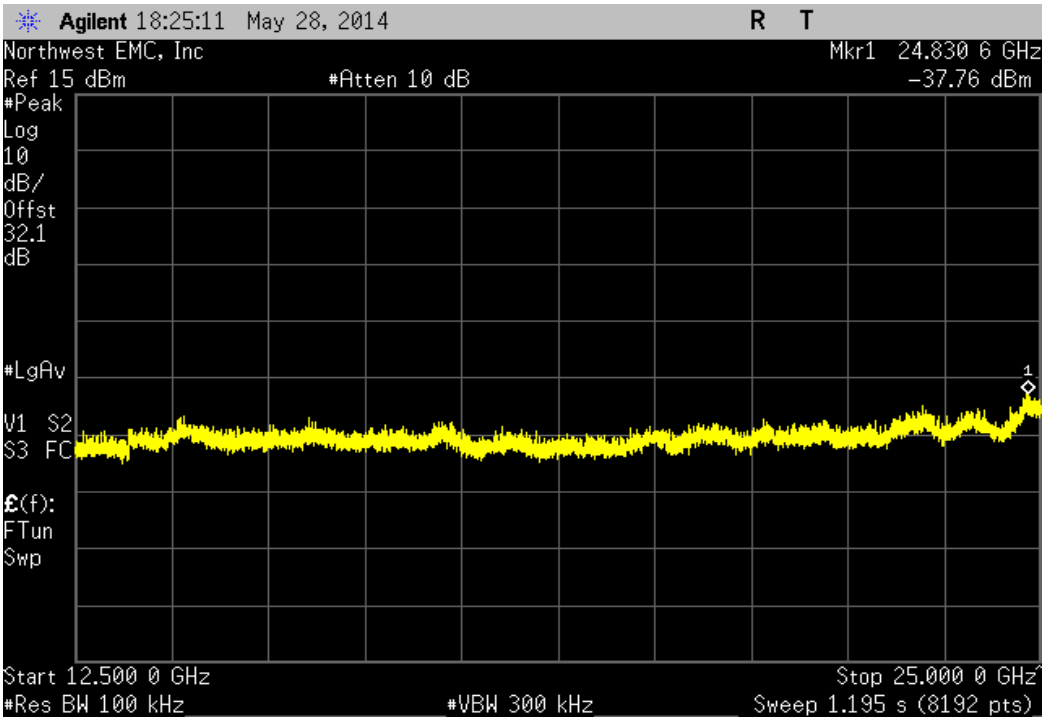


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.79 dBc	≤ -20 dBc	Pass

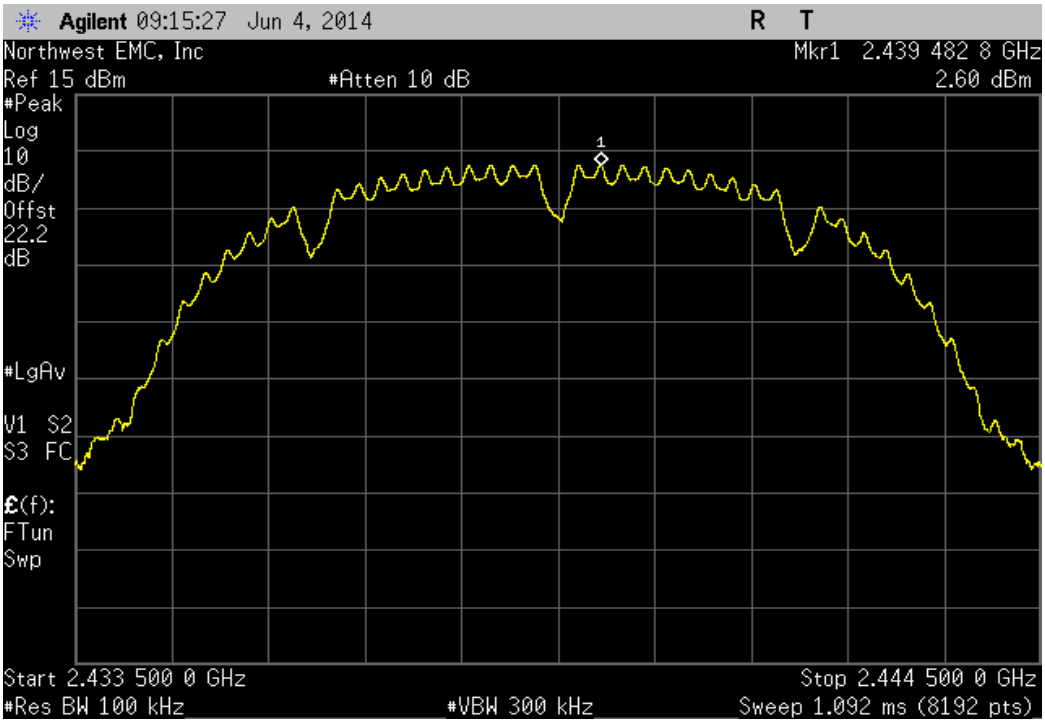


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-51.41 dBc	≤ -20 dBc	Pass

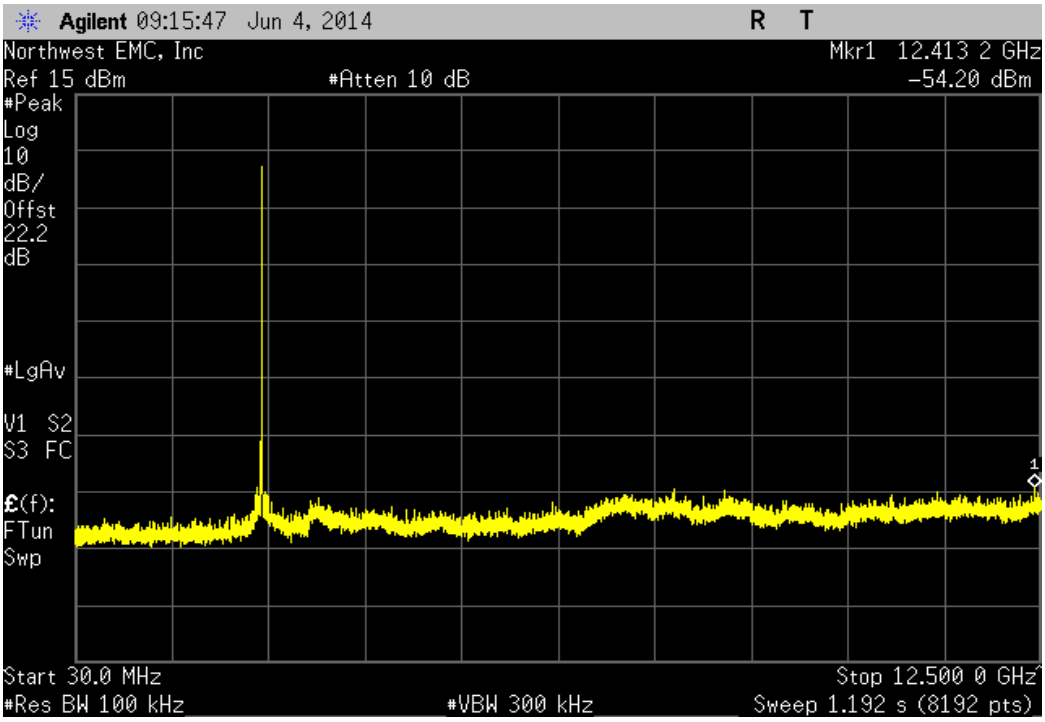


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2439 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

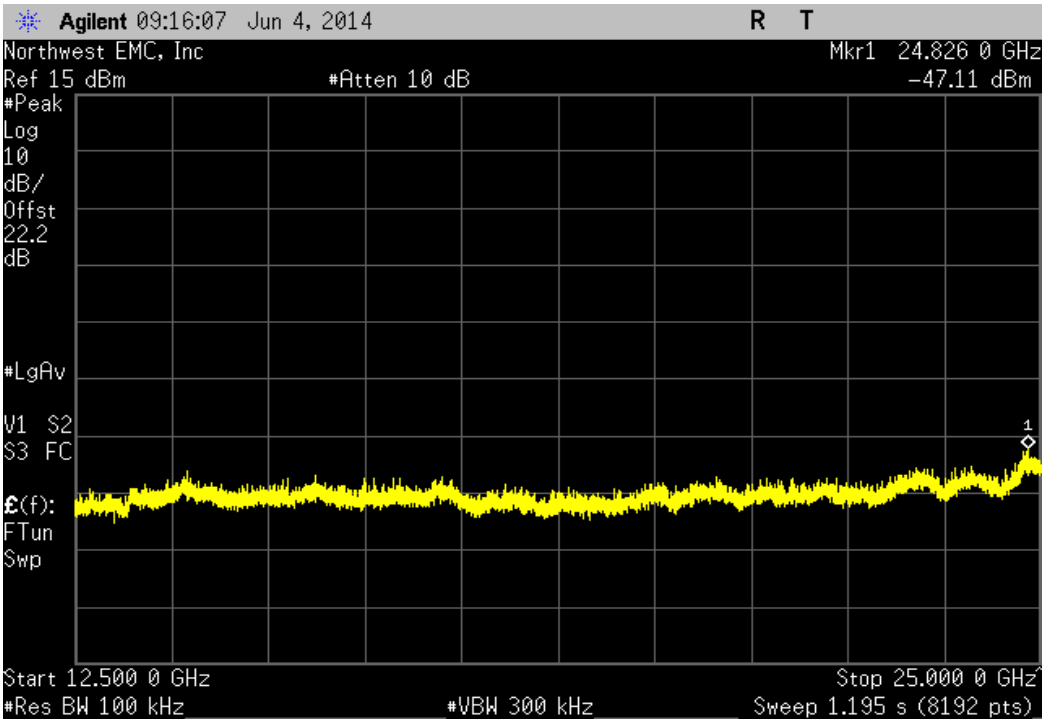


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.8 dBc	≤ -20 dBc	Pass

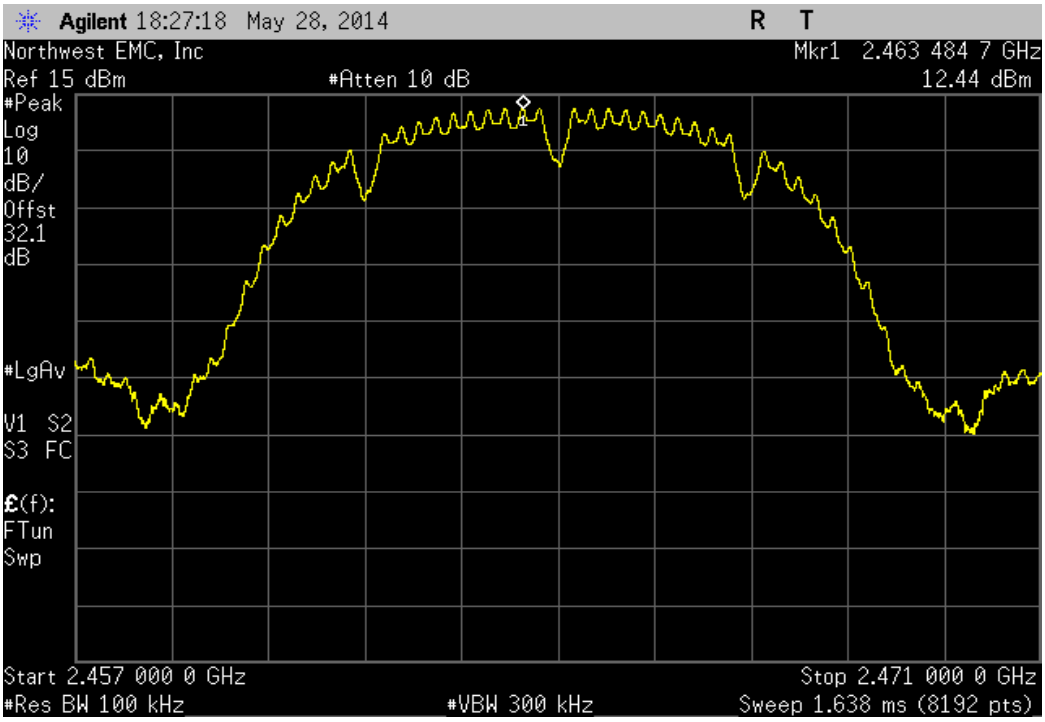


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-49.71 dBc	≤ -20 dBc	Pass

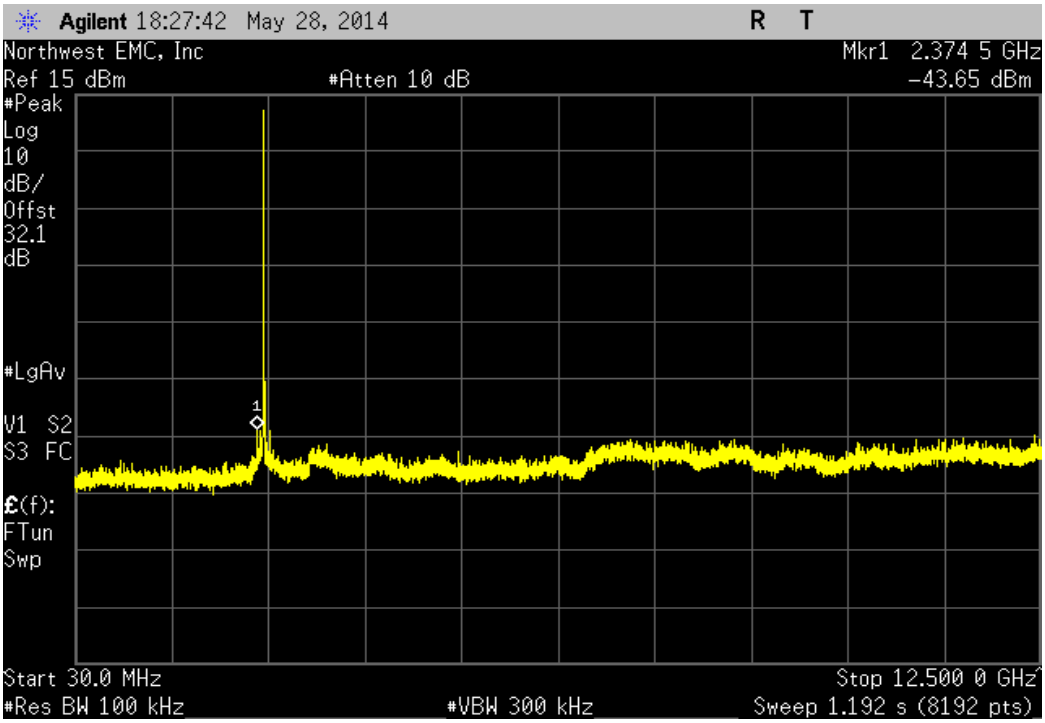


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2464 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

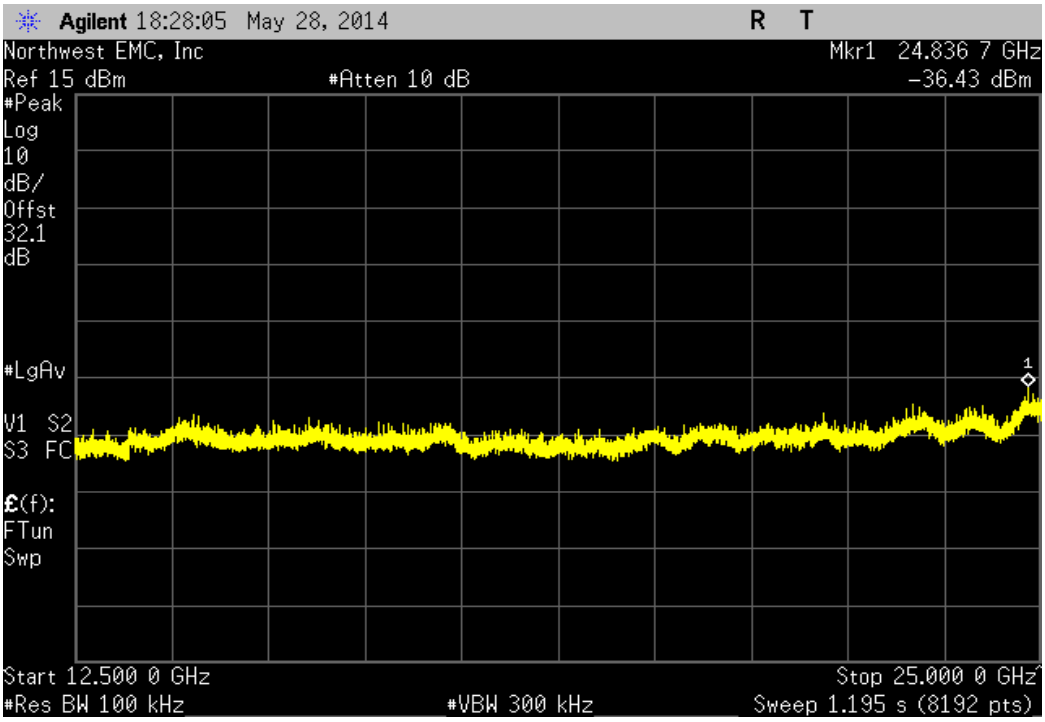


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.09 dBc	≤ -20 dBc	Pass

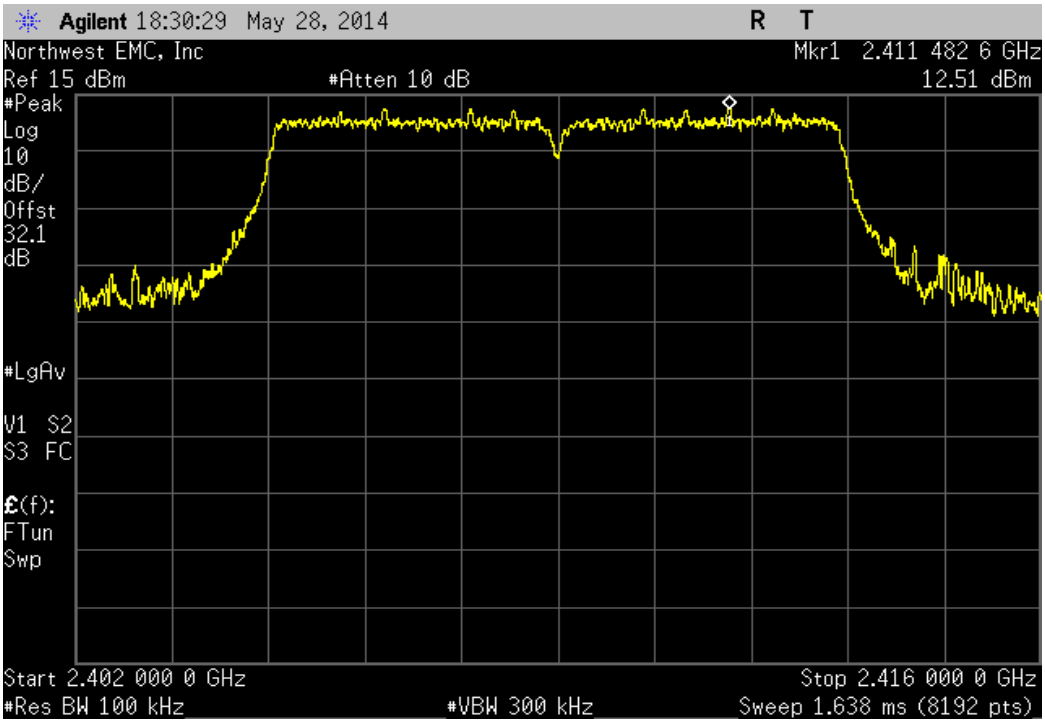


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(b) 1 Mbps, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.87 dBc	≤ -20 dBc	Pass

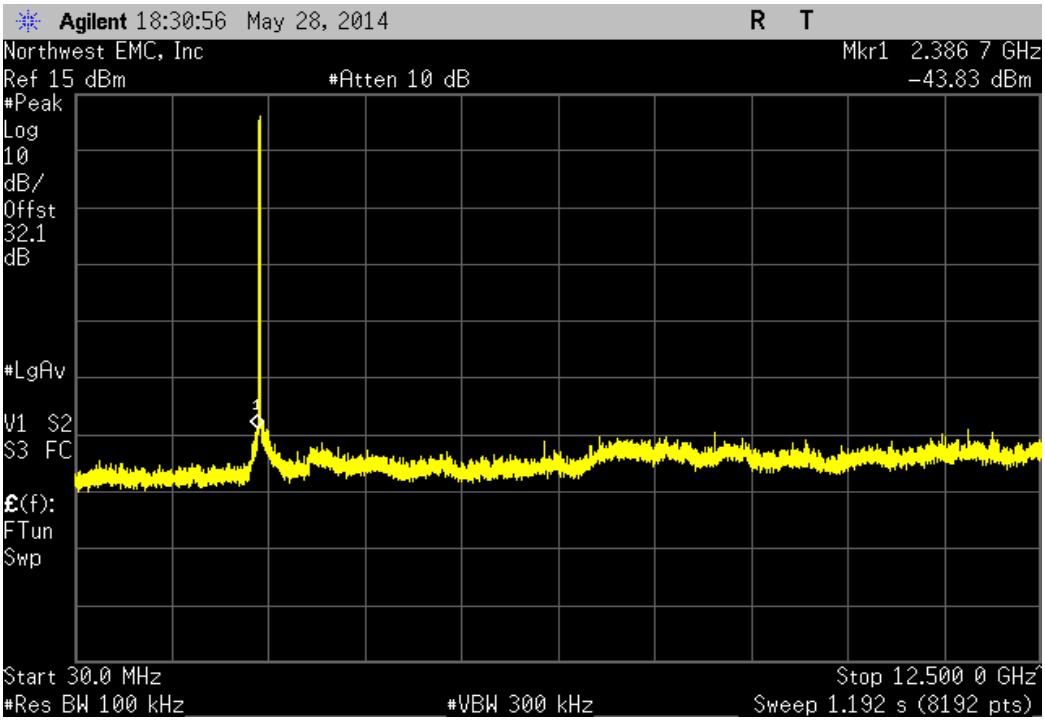


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2409 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

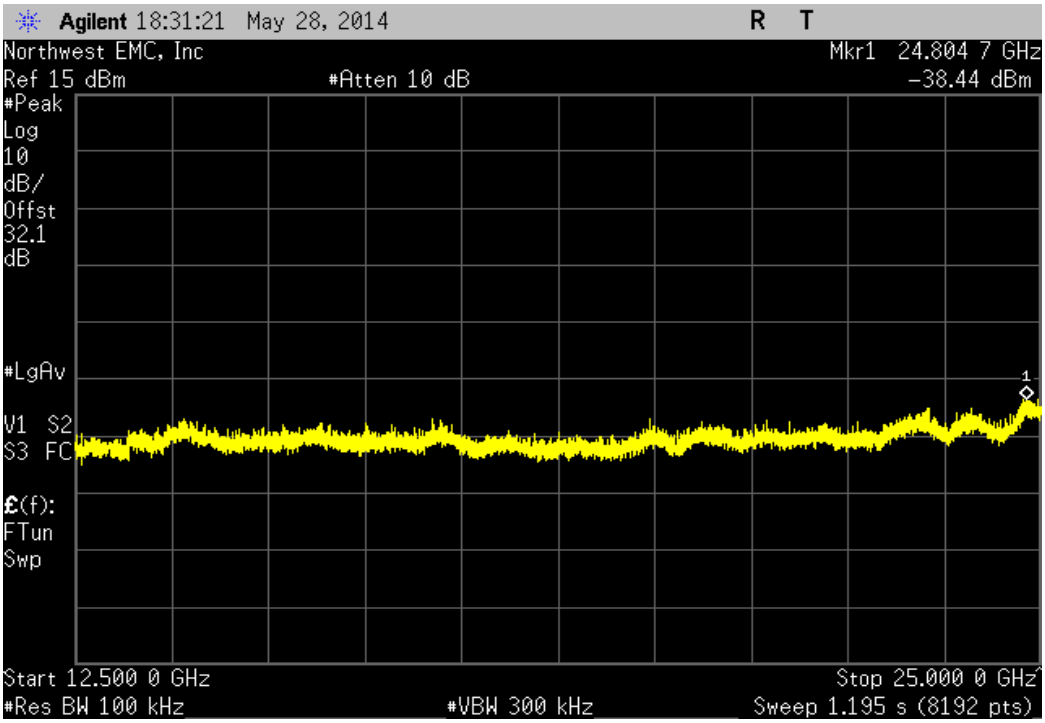


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.34 dBc	≤ -20 dBc	Pass

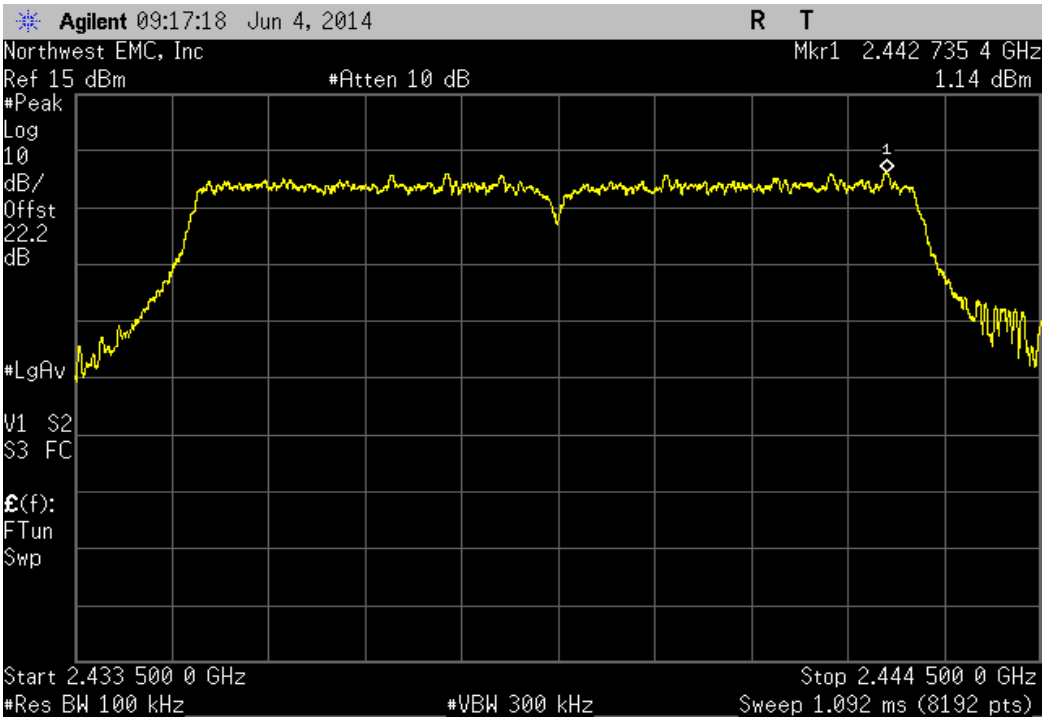


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.95 dBc	≤ -20 dBc	Pass

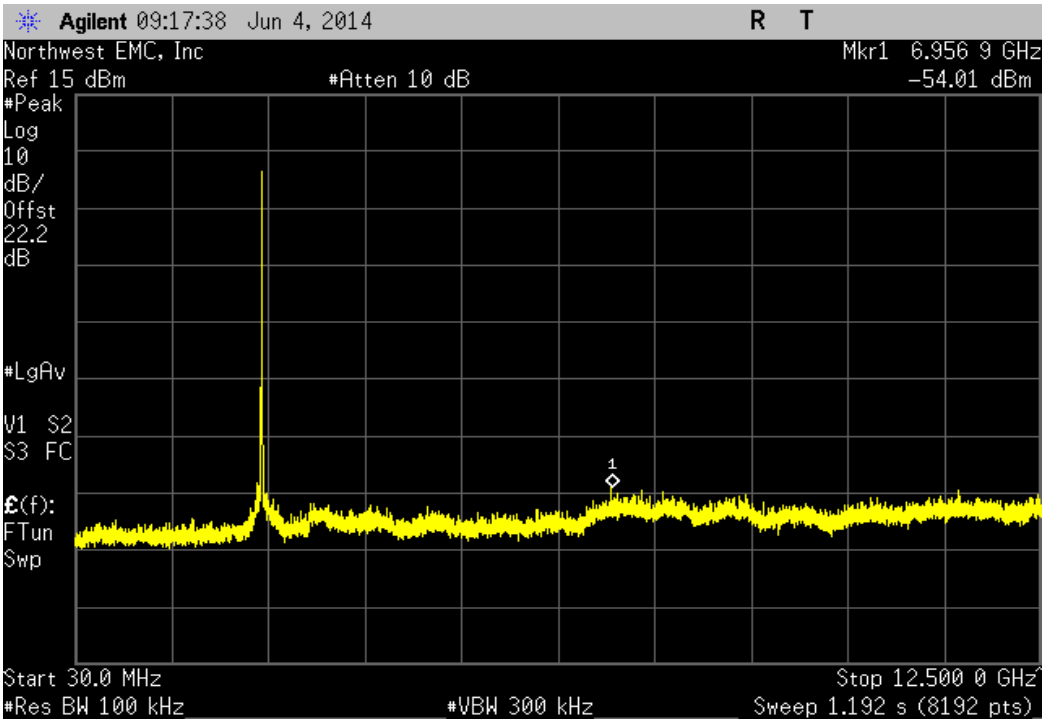


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2439 MHz					
Frequency Range			Value	Limit	Result
	Fundamental		N/A	N/A	N/A

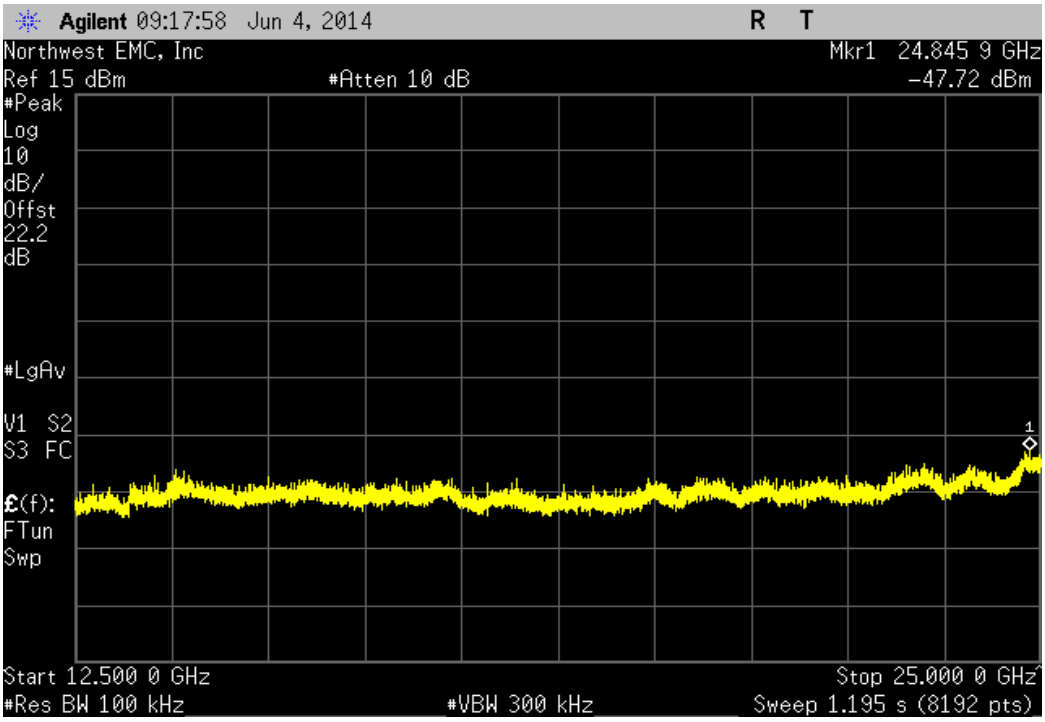


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-55.15 dBc	≤ -20 dBc	Pass

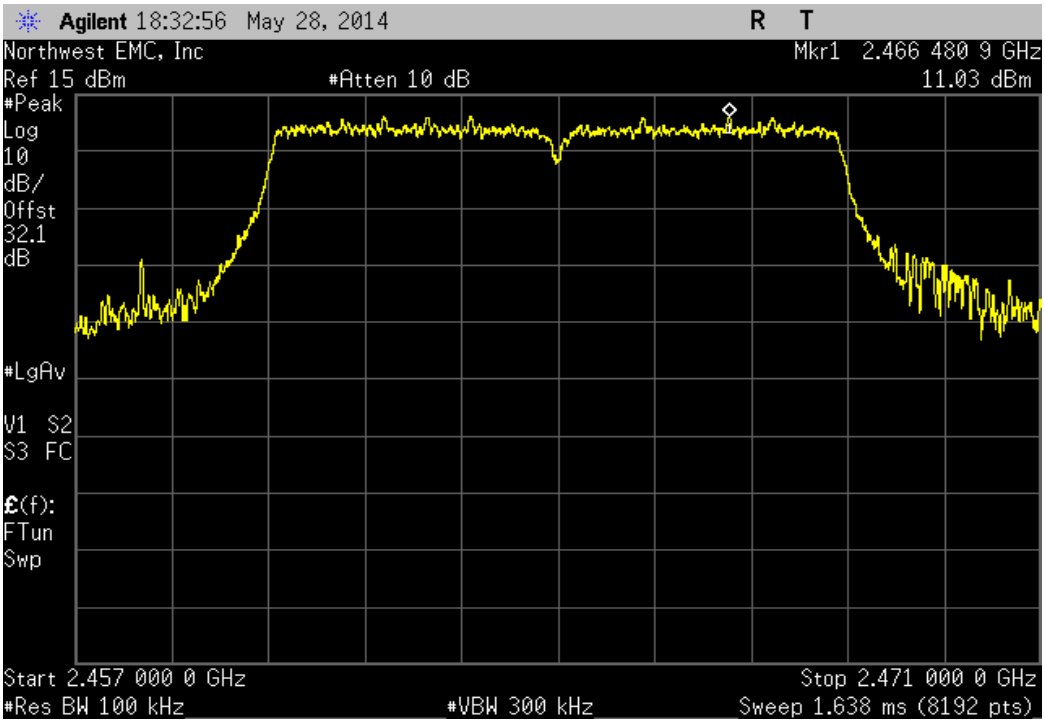


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.86 dBc	≤ -20 dBc	Pass

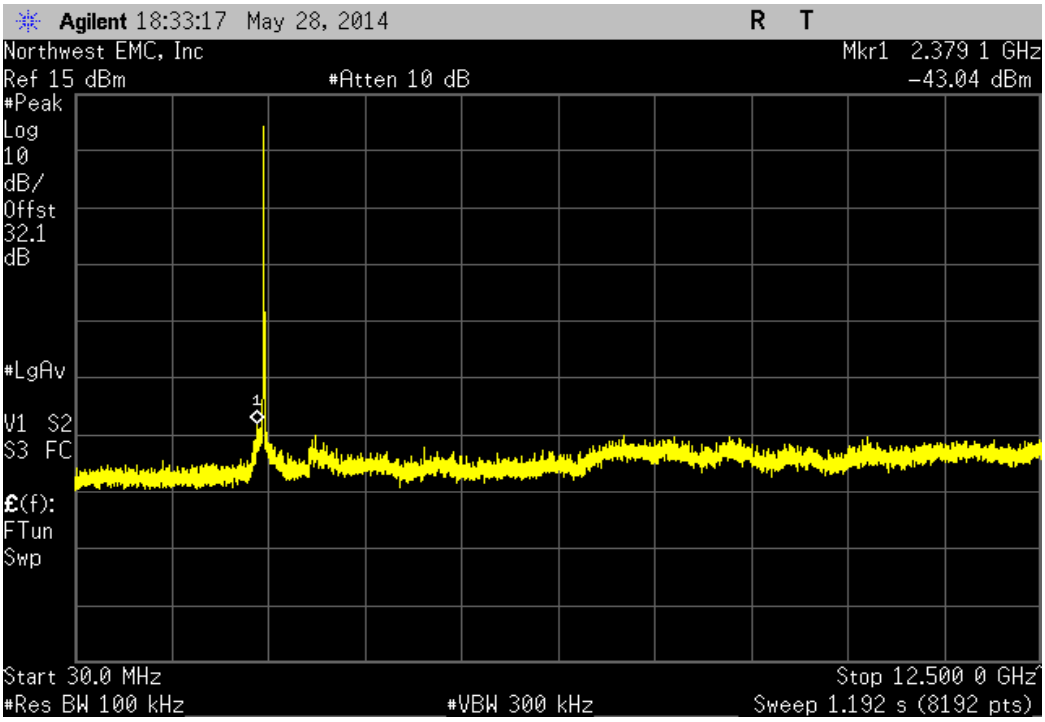


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
Fundamental		N/A	N/A	N/A

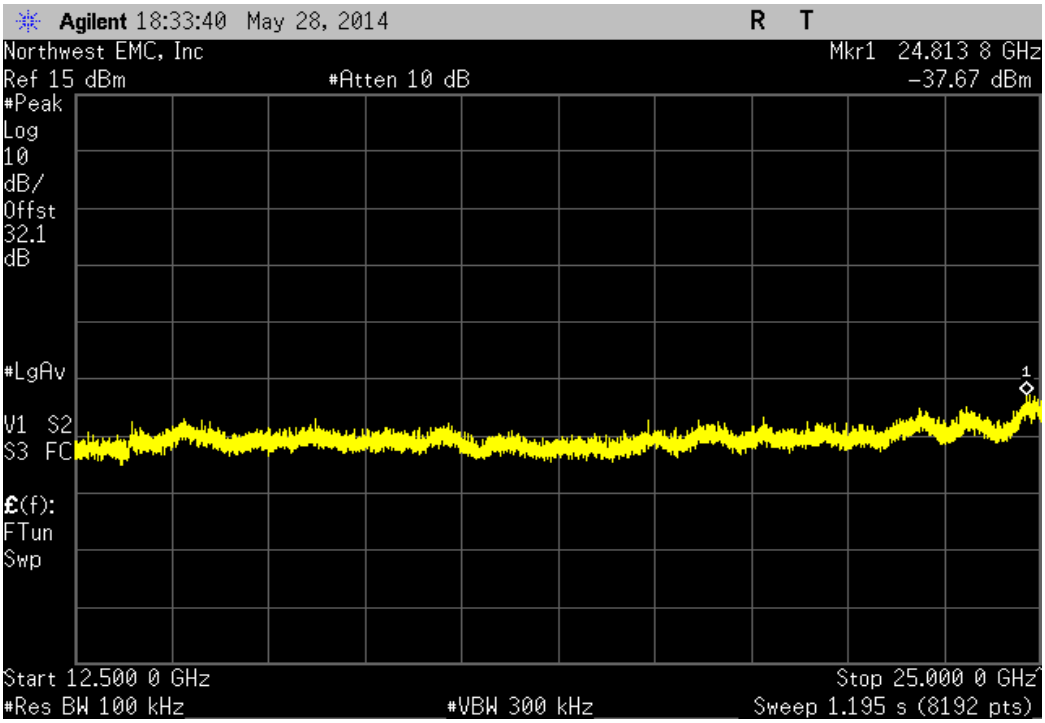


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-54.07 dBc	≤ -20 dBc	Pass

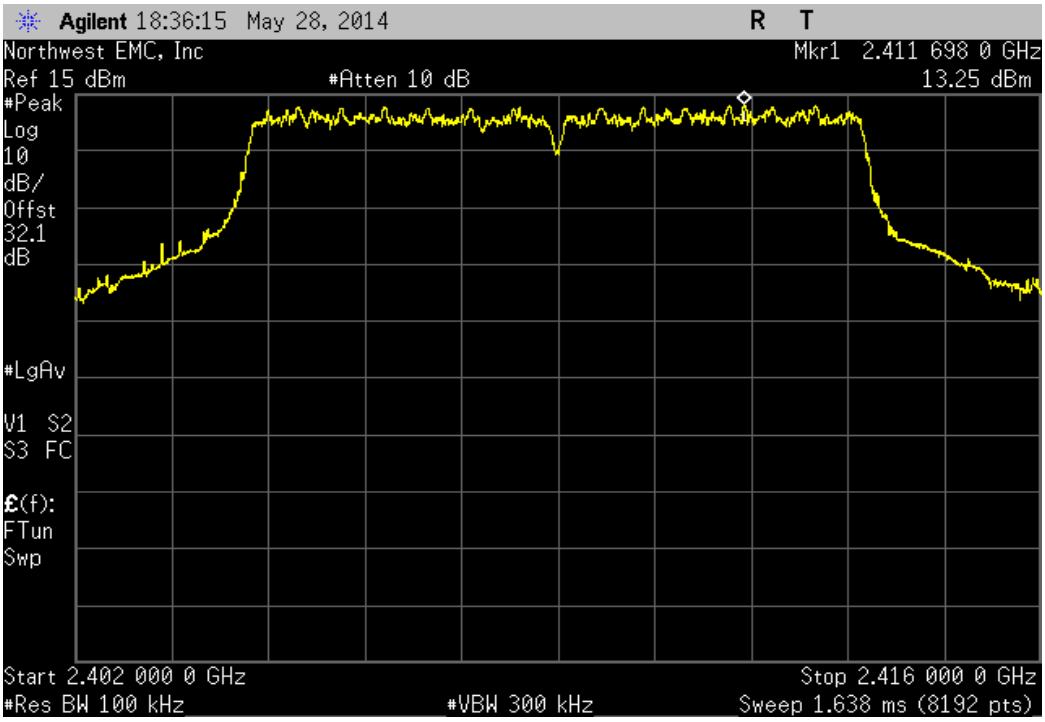


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(g) 6 Mbps, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-48.7 dBc	≤ -20 dBc	Pass

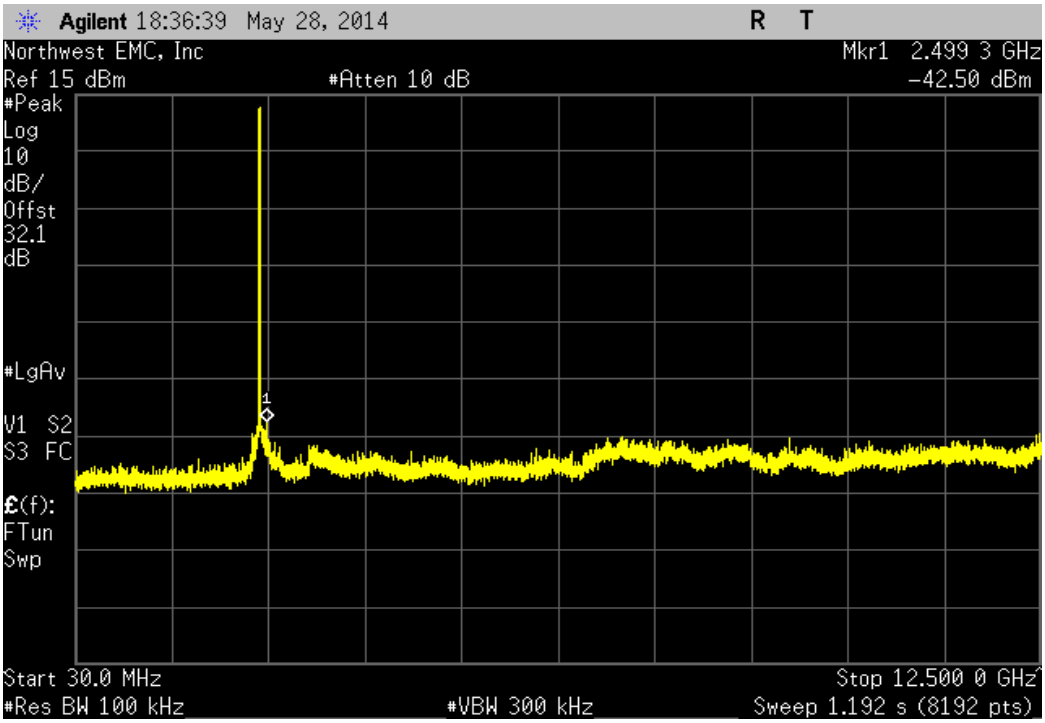


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Low Channel 2409 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

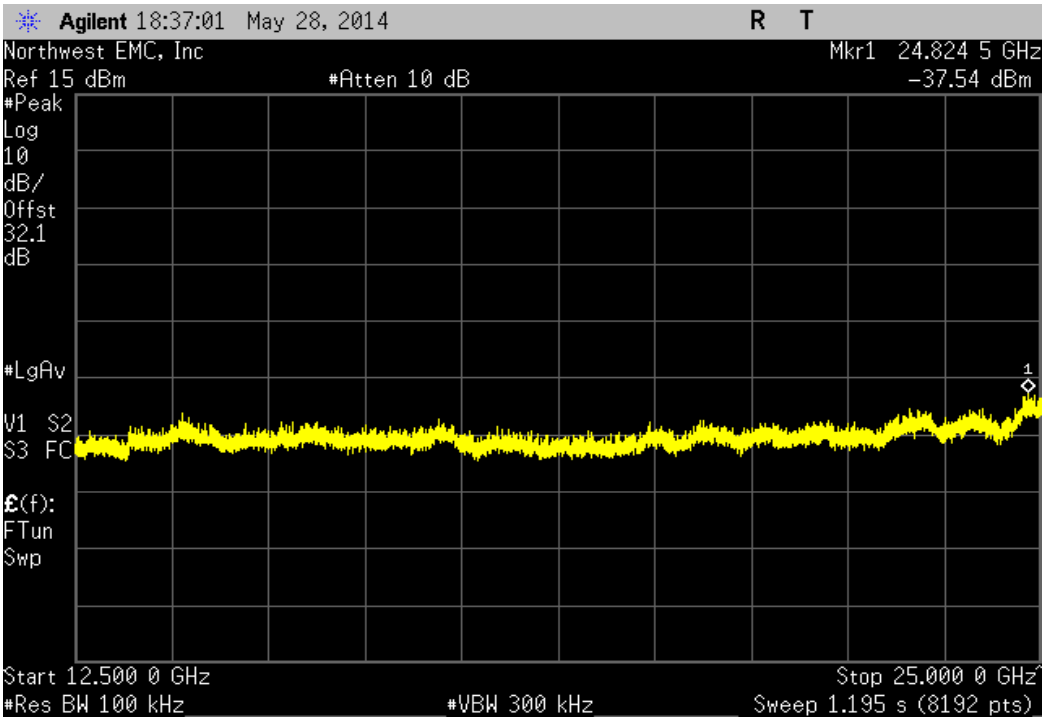


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-55.75 dBc	≤ -20 dBc	Pass

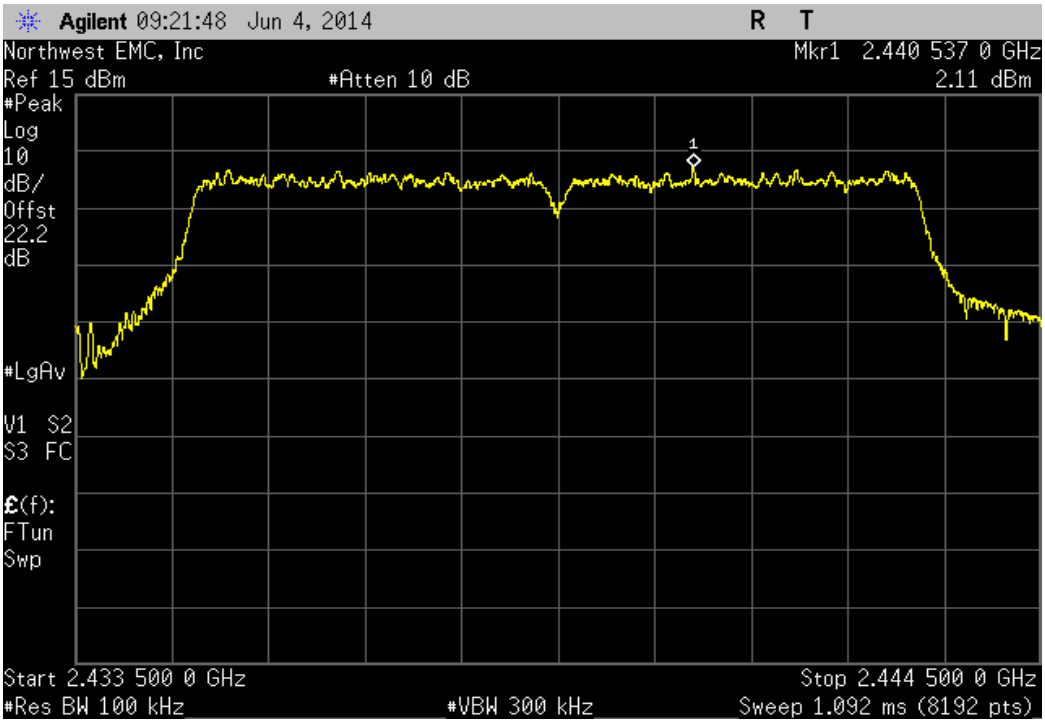


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Low Channel 2409 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-50.79 dBc	≤ -20 dBc	Pass

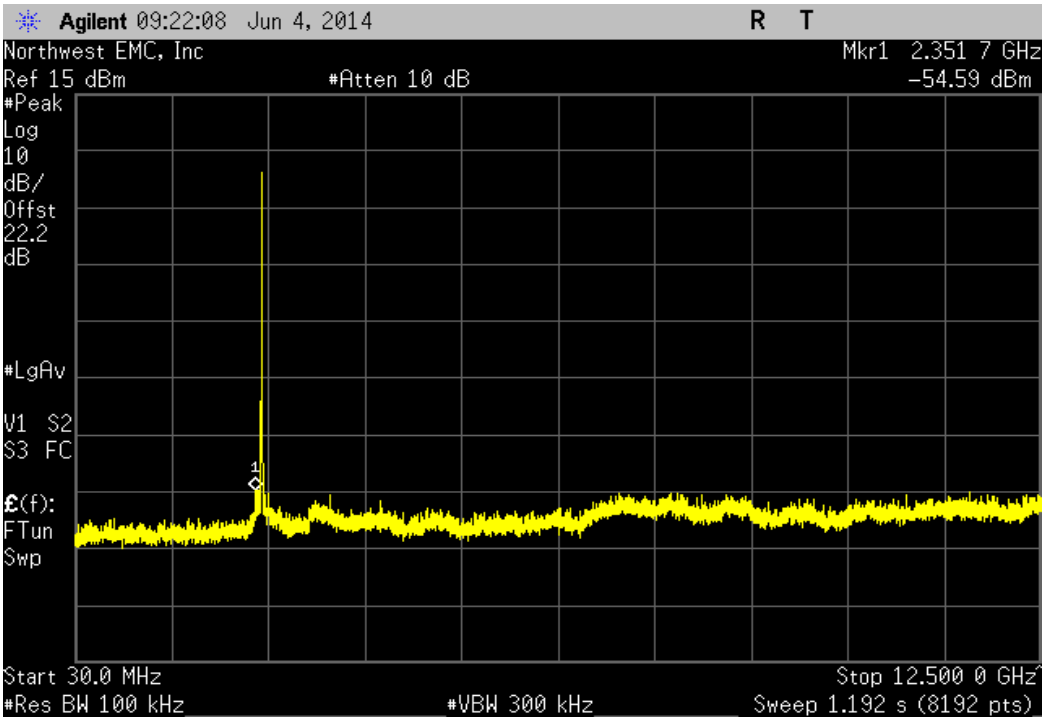


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2439 MHz						
	Frequency Range			Value	Limit	Result
	Fundamental			N/A	N/A	N/A

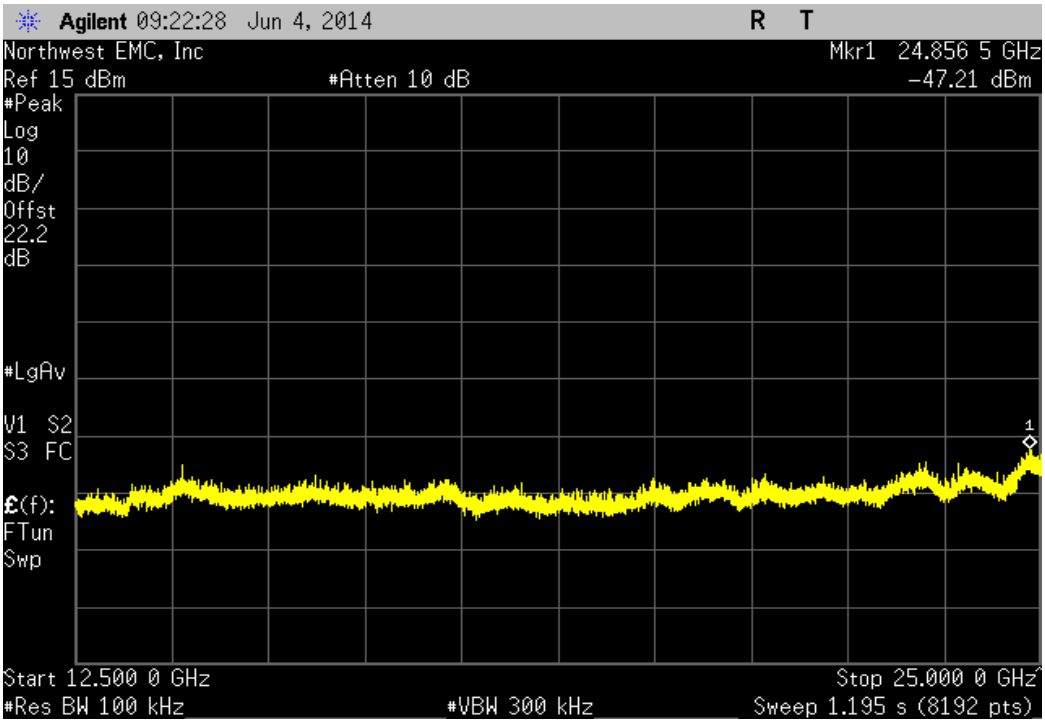


SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.7 dBc	≤ -20 dBc	Pass

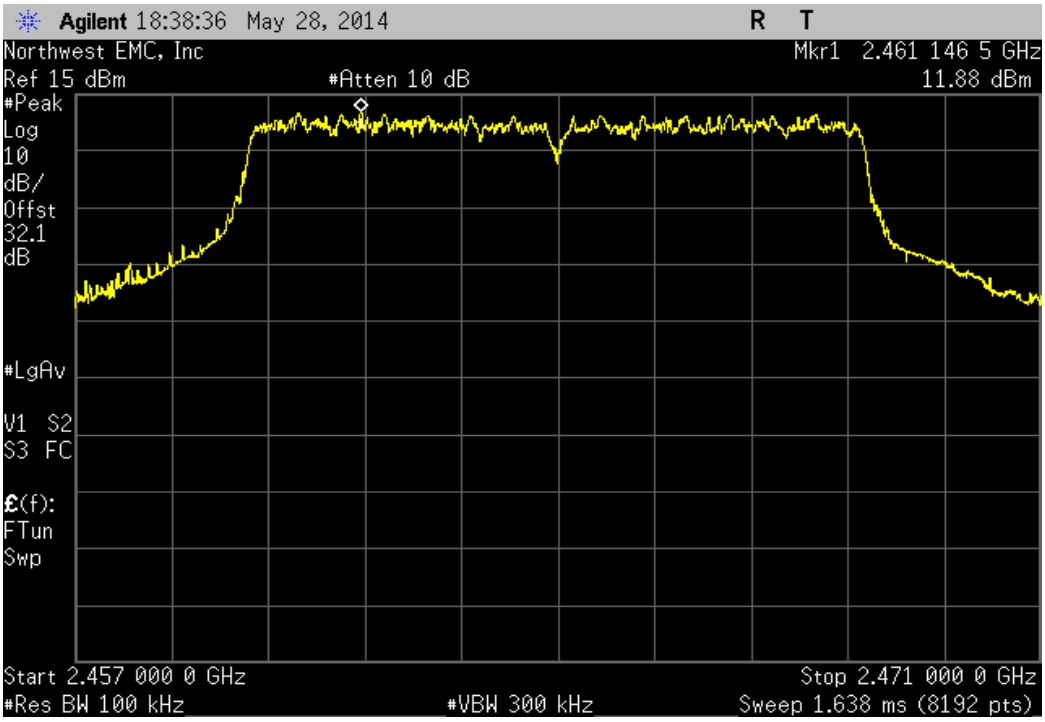


2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, Mid Channel 2439 MHz				
Frequency Range		Value	Limit	Result
12.5 GHz - 25 GHz		-49.32 dBc	≤ -20 dBc	Pass

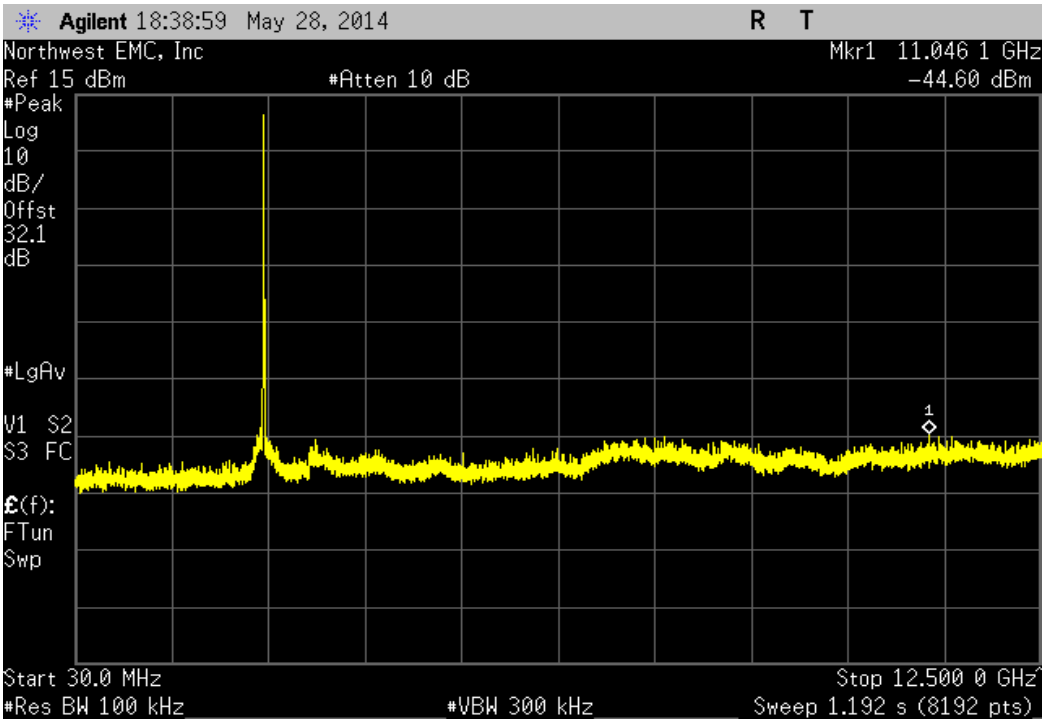


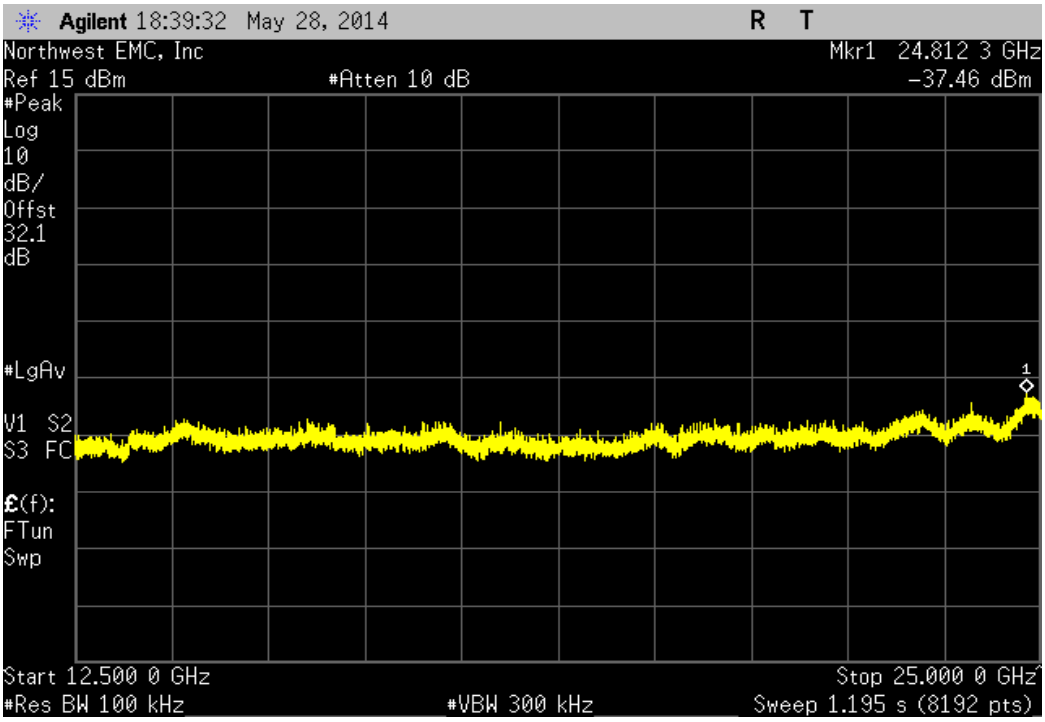
SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, High Channel 2464 MHz					
	Frequency Range		Value	Limit	Result
	Fundamental		N/A	N/A	N/A



2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, High Channel 2464 MHz				
Frequency Range		Value	Limit	Result
30 MHz - 12.5 GHz		-56.49 dBc	≤ -20 dBc	Pass



SPURIOUS CONDUCTED EMISSIONS

2400 MHz - 2483.5 MHz Band, 10MHz Bandwidth , 802.11(n) MCS7, High Channel 2464 MHz				
Frequency Range		**Value**	**Limit**	**Result**
12.5 GHz - 25 GHz		-49.34 dBc	≤ -20 dBc	Pass