NORTHWEST
EMC

SPURIOUS CONDUCTED EMISSIONS

XMit 2010.01.14

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAQ	1/6/2010	13
Attenuator	Weinschel Corp.	54A-20	RBL	10/9/2009	13
40GHz DC Block	Miteq	DCB4000	AMD	8/19/2009	13
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0

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SPURIOUS CONDUCTED EMISSIONS

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EUT:	WF1101			Work Order:	VERW0038
Serial Number:				Date:	04/01/10
Customer:	Veriwave, Inc.			Temperature:	22°C
Attendees:	none			Humidity:	38%
Project:	None			Barometric Pres.:	30.05
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

COMMENTS

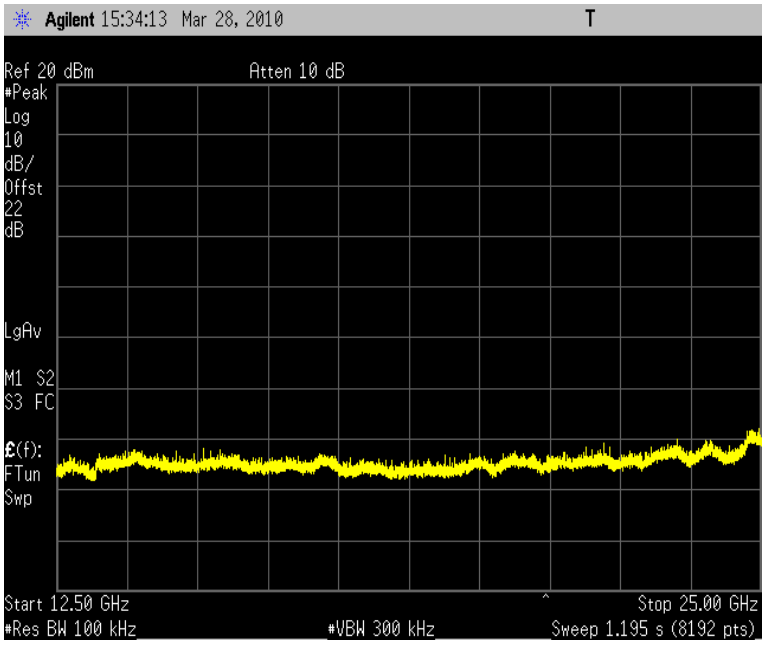
802.11n mode testing done at MCS0

DEVIATIONS FROM TEST STANDARD

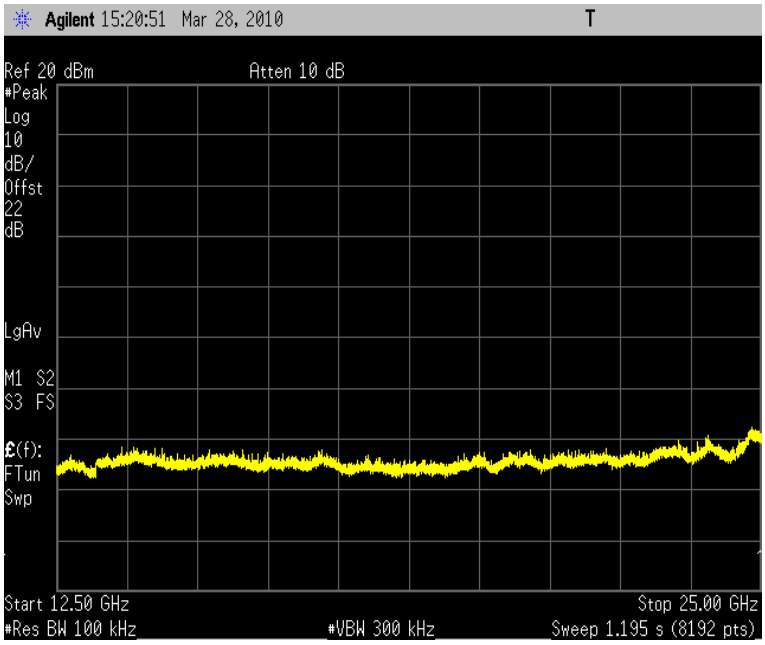
Configuration #	2	Signature

		Value	Limit	Results
802.11(b) 1 Mbps				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(b) 11 Mbps				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(g) 6 Mbps				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(g) 36 Mbps				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(g) 54 Mbps				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(n), 2.4 20MHz, 15 dBm				
	Low Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(n), 2.4 40MHz, 13 dBm				
	Mid Channel			
	12.5 GHz - 25 GHz	< -40 dBc	= -20 dBc	Pass
802.11(a) 6 Mbps				
	Low Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
802.11(a) 36 Mbps				
	Low Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
802.11(a) 54 Mbps				
	Low Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
802.11(n), 5GHz 20MHz				
	Low Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
802.11(n), 5GHz 40MHz				
	Low Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	Mid Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -40 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -30 dBc	= -20 dBc	Pass
	High Channel			
	12.5 GHz - 26.5 GHz	< -40 dBc	= -20 dBc	Pass
	26.5 GHz - 31 GHz	< -30 dBc	= -20 dBc	Pass
	31 GHz - 40 GHz	< -40 dBc	= -20 dBc	Pass

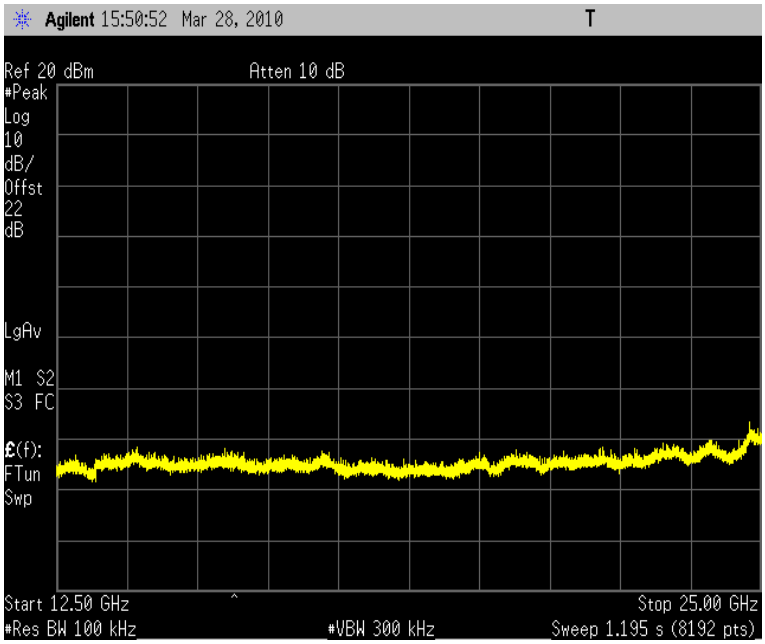
802.11(b) 1 Mbps, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



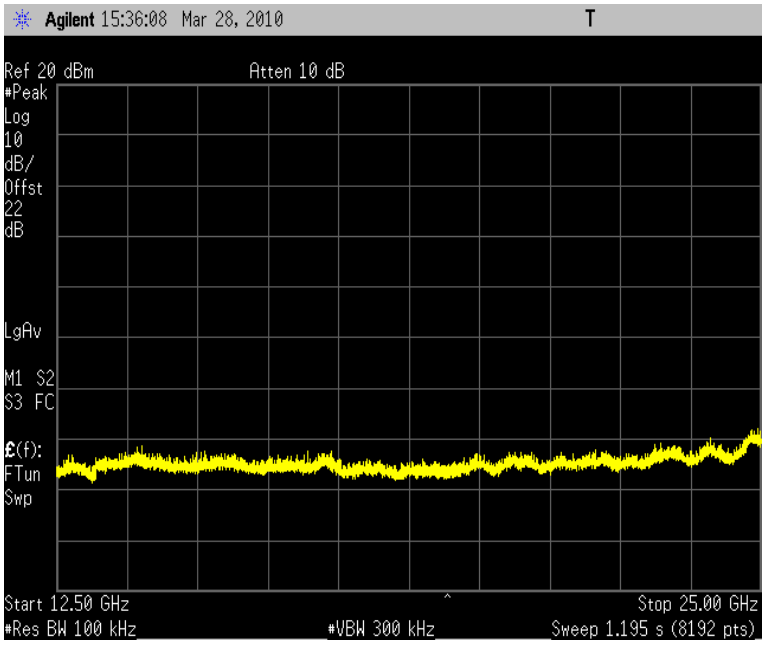
802.11(b) 1 Mbps, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



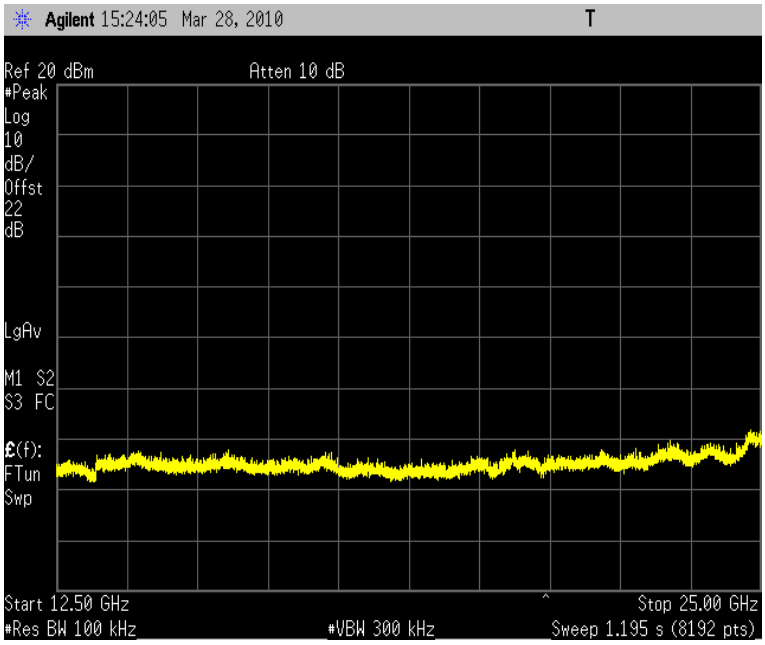
802.11(b) 1 Mbps, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



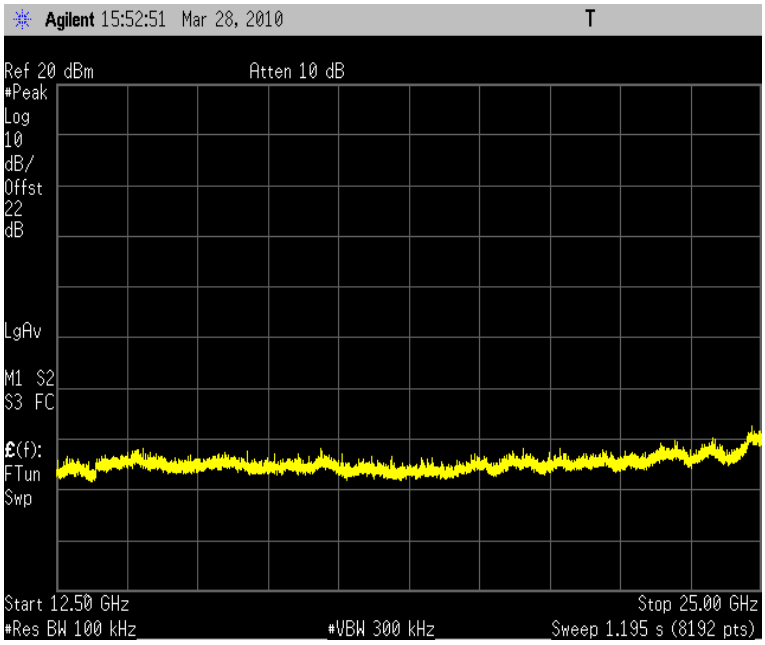
802.11(b) 11 Mbps, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



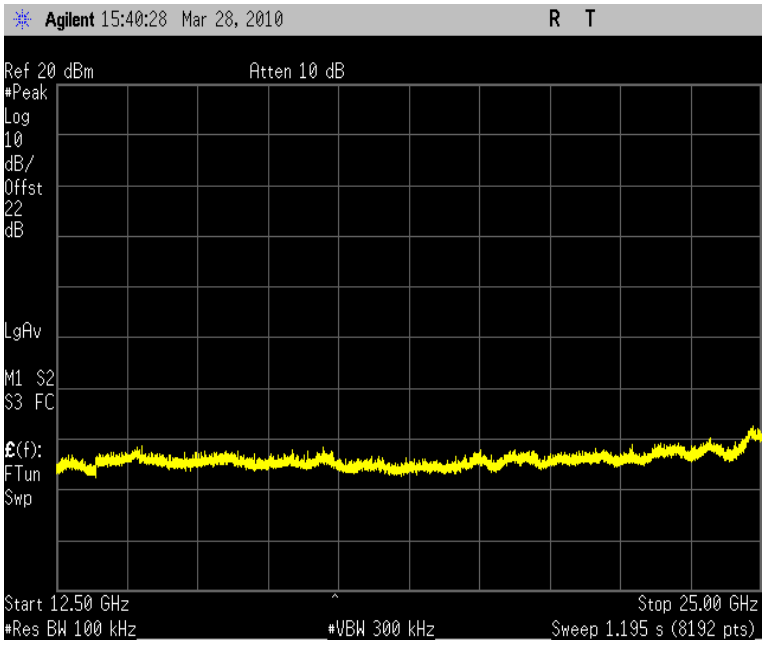
802.11(b) 11 Mbps, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



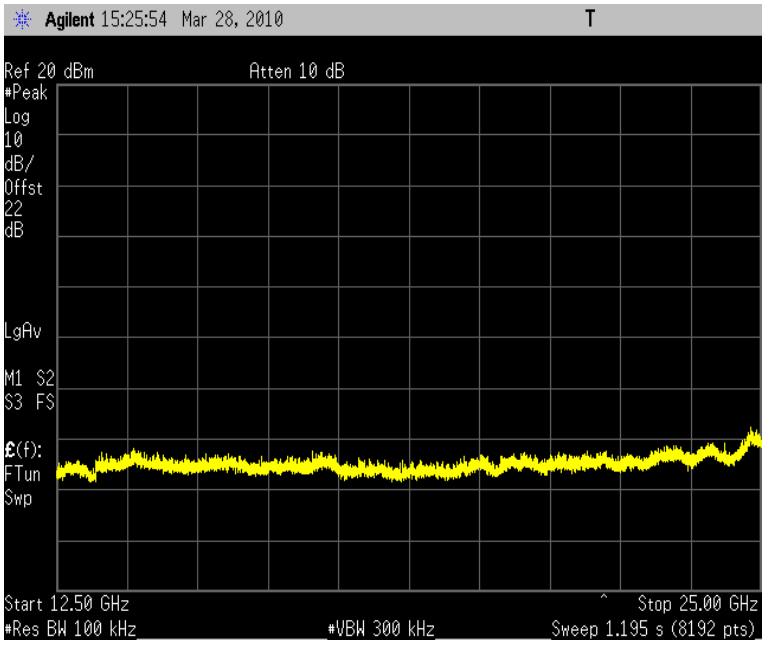
802.11(b) 11 Mbps, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



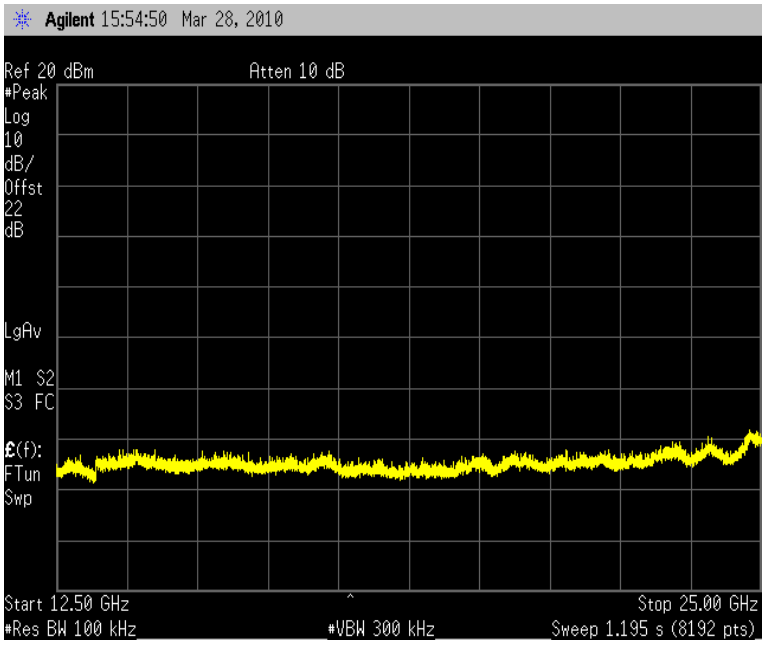
802.11(g) 6 Mbps, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



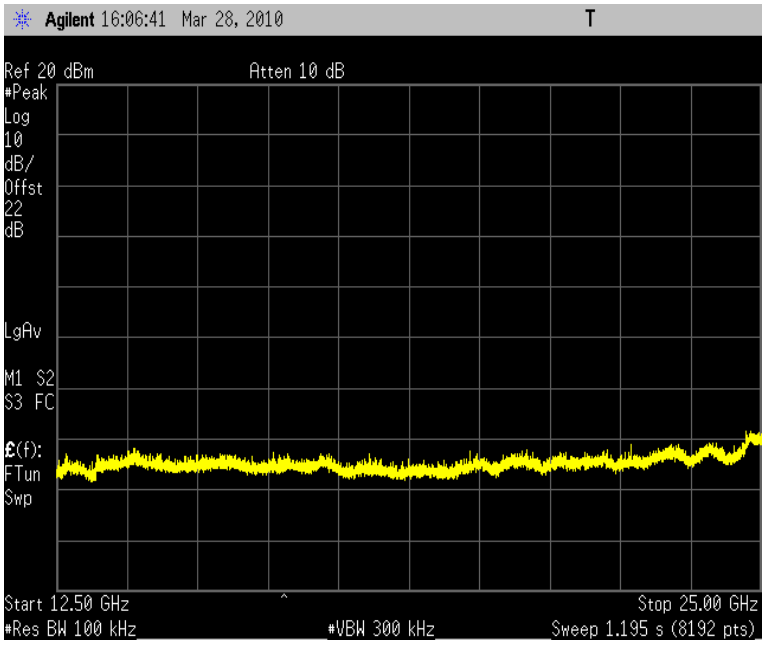
802.11(g) 6 Mbps, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



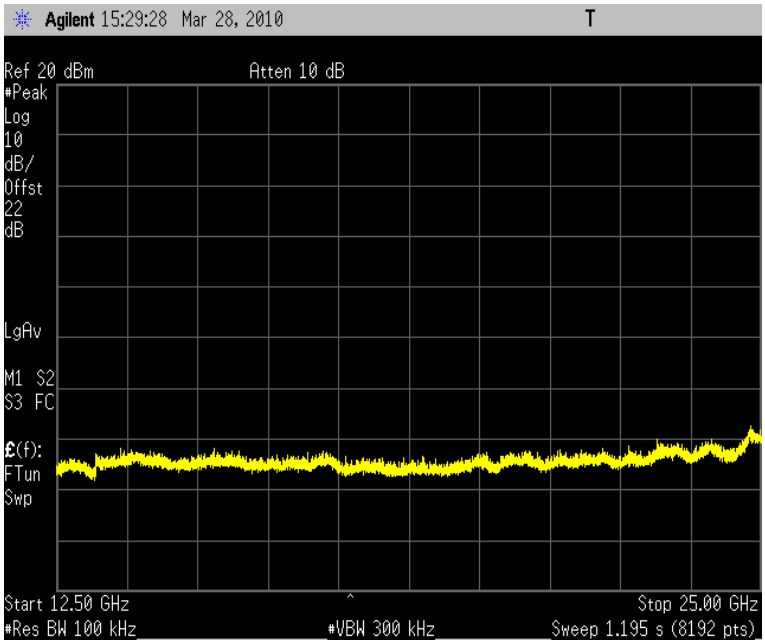
802.11(g) 6 Mbps, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



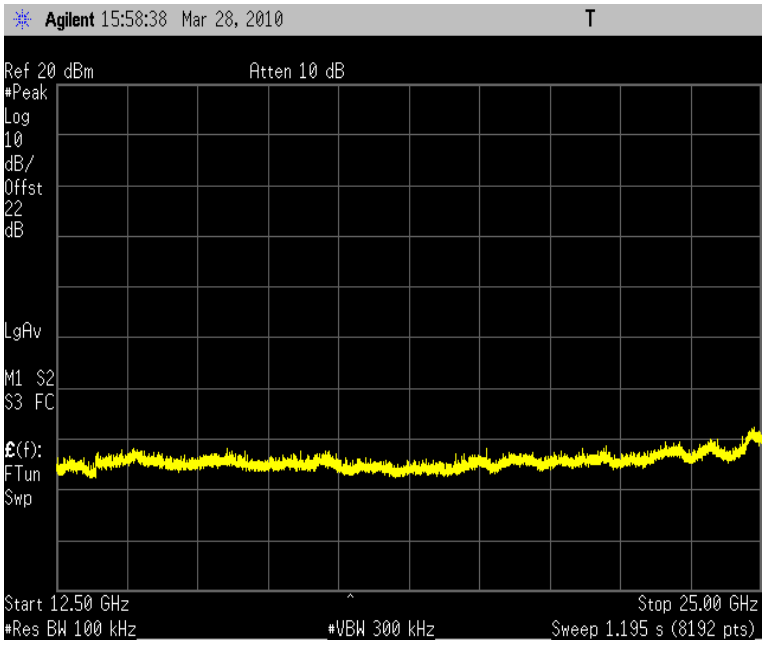
802.11(g) 36 Mbps, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



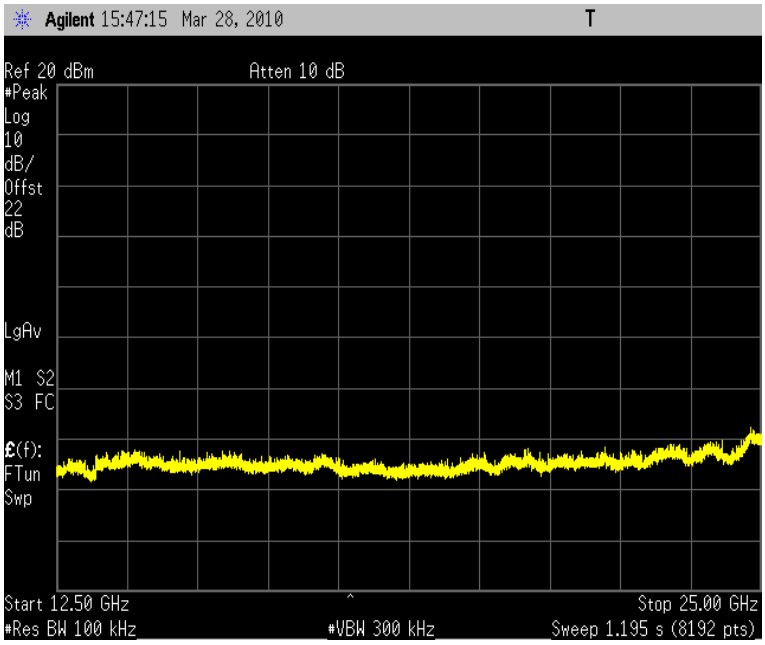
802.11(g) 36 Mbps, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



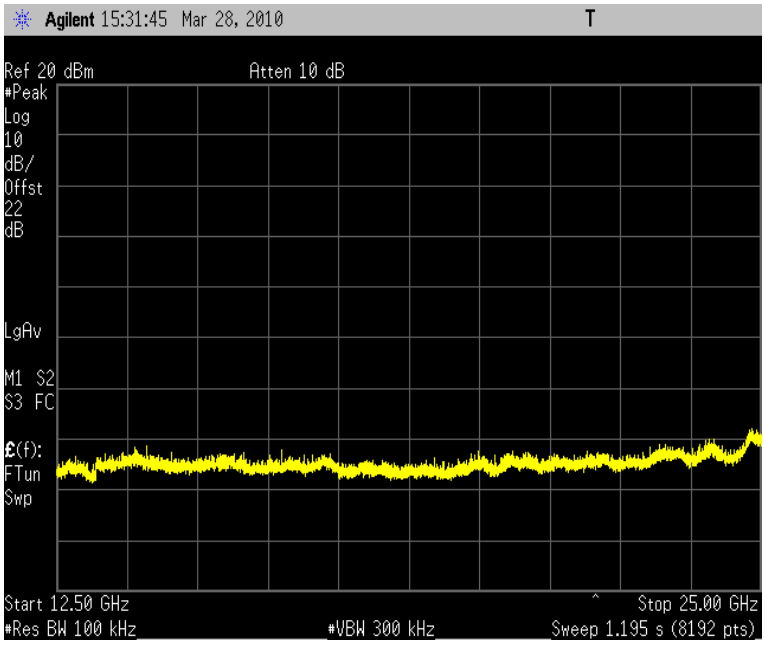
802.11(g) 36 Mbps, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



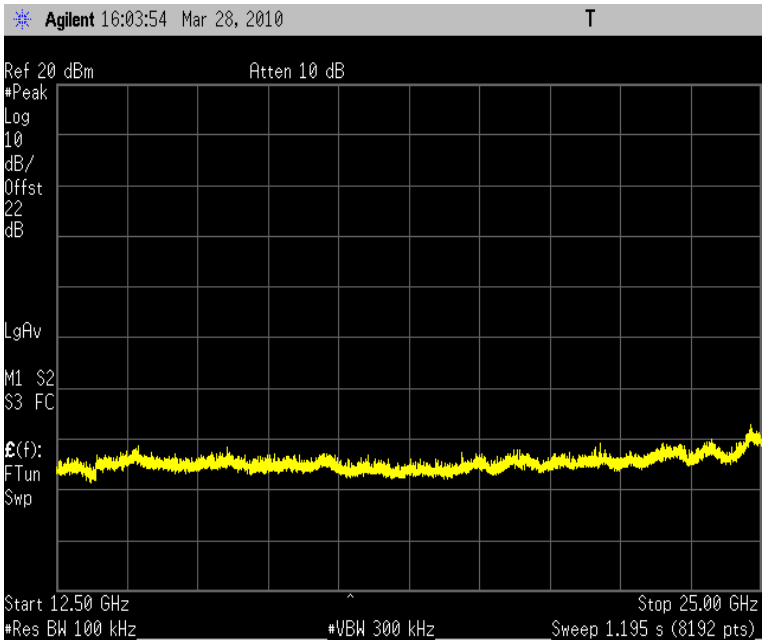
802.11(g) 54 Mbps, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



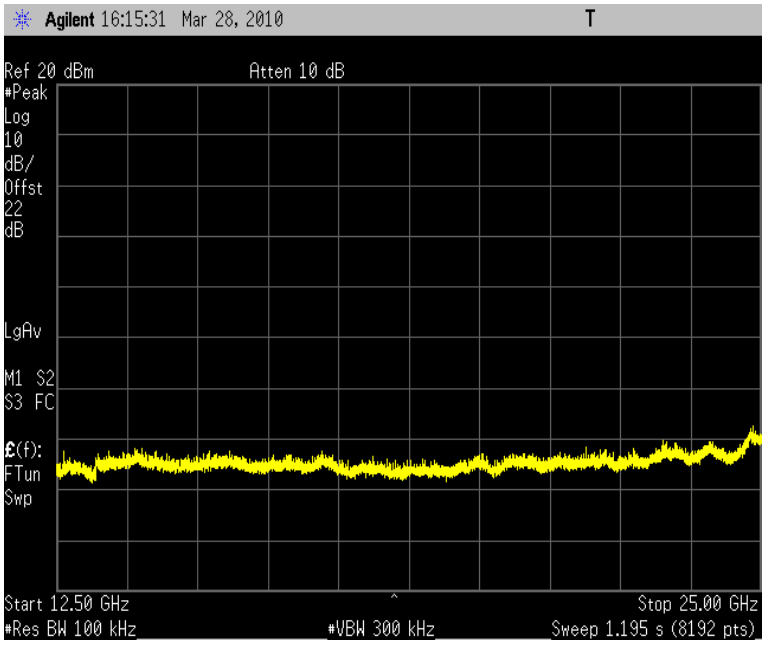
802.11(g) 54 Mbps, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



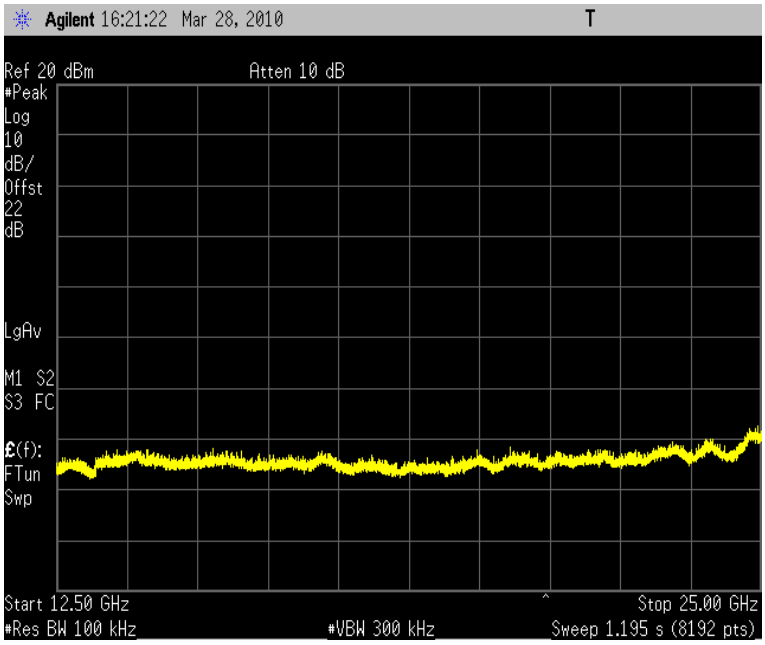
802.11(g) 54 Mbps, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



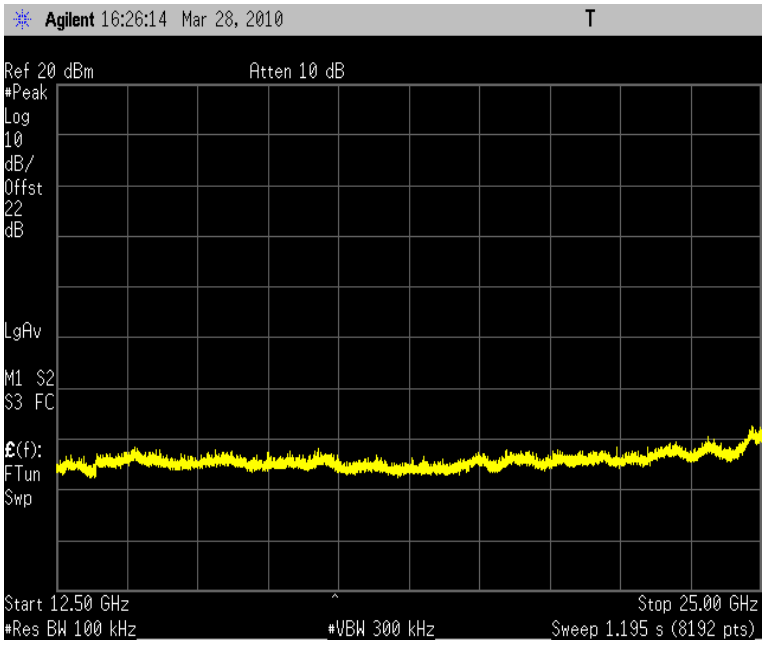
802.11(n), 2.4 20MHz, Low Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



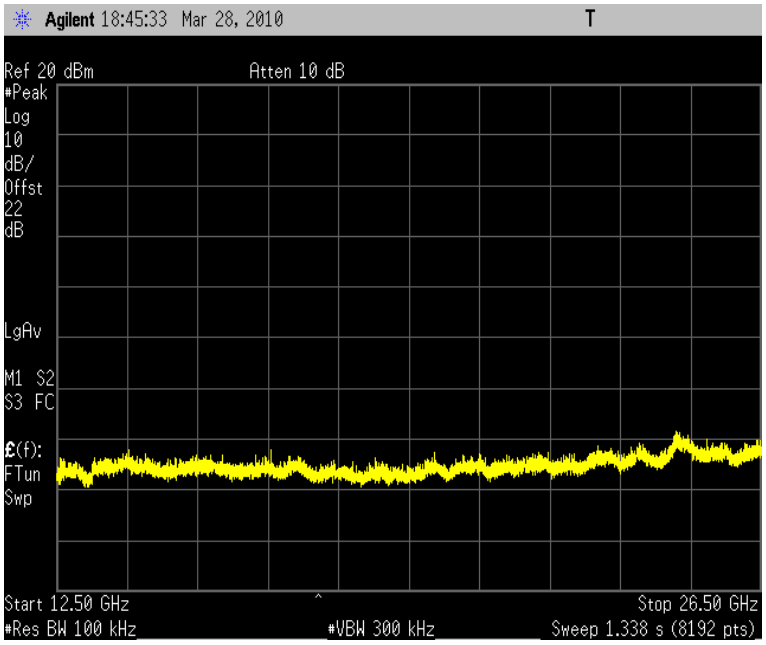
802.11(n), 2.4 20MHz, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



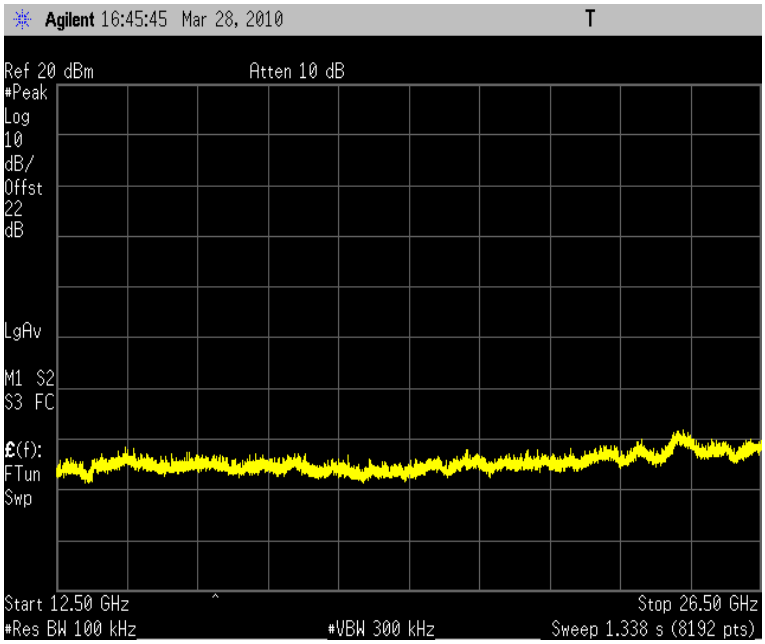
802.11(n), 2.4 20MHz, High Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



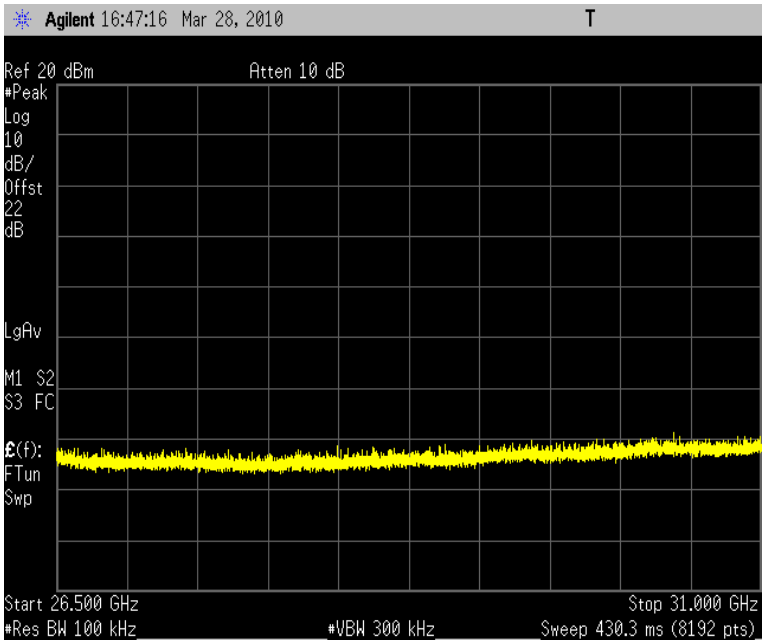
802.11(n), 2.4 40MHz, Mid Channel, 12.5 GHz - 25 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



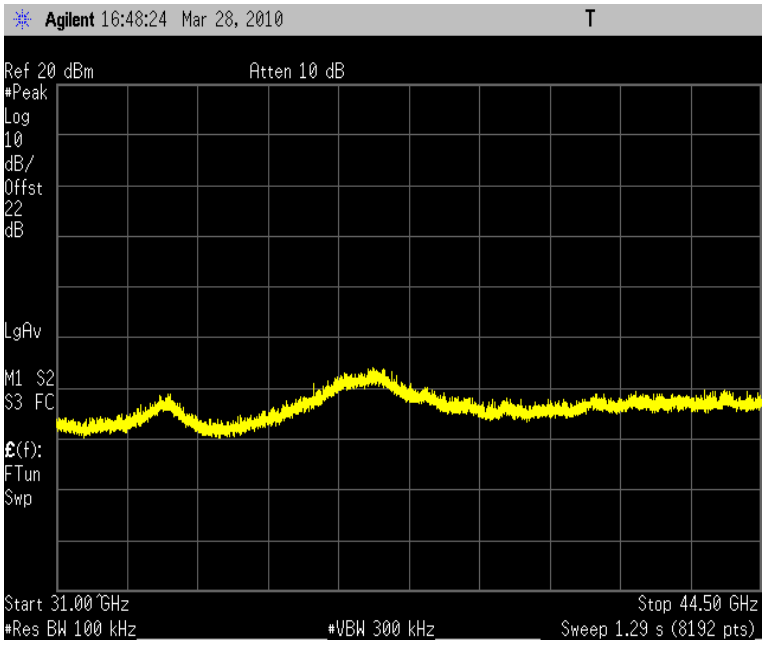
802.11(a) 6 Mbps, Low Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



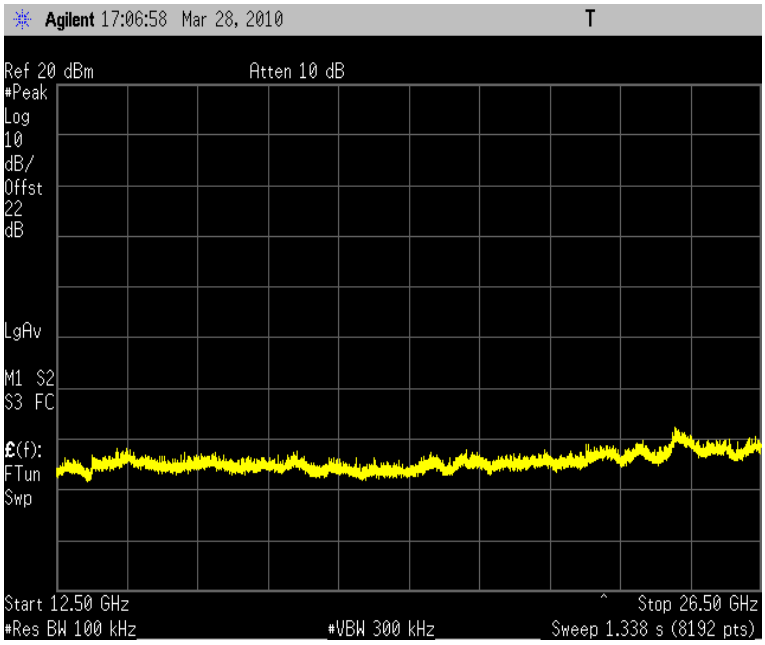
802.11(a) 6 Mbps, Low Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



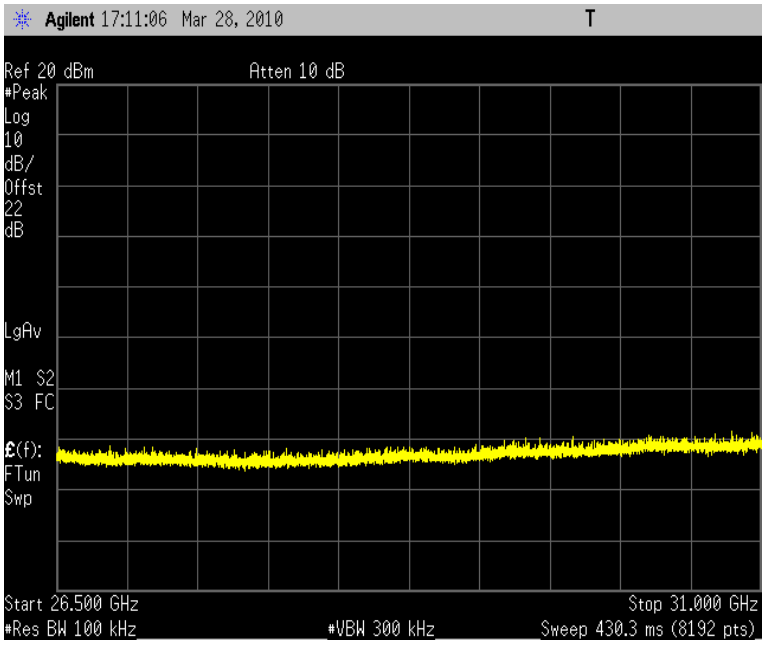
802.11(a) 6 Mbps, Low Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



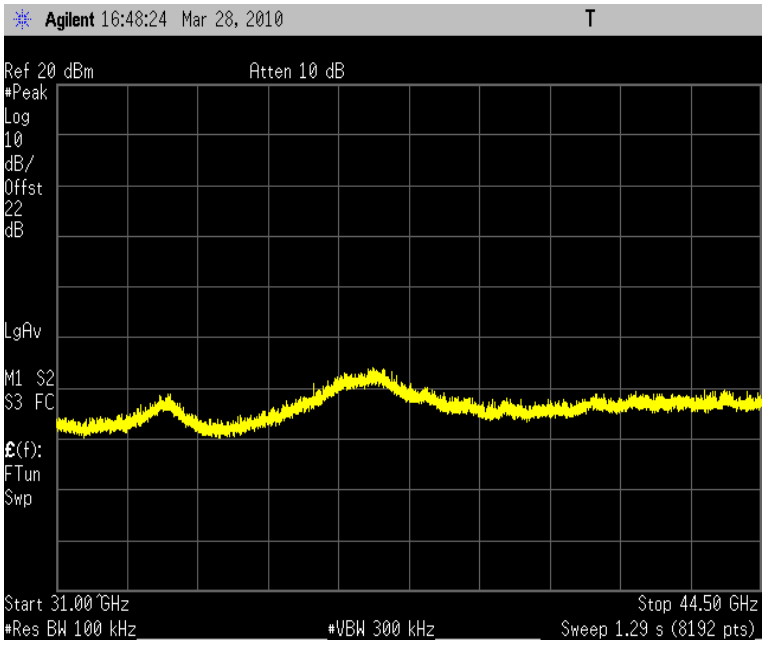
802.11(a) 6 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



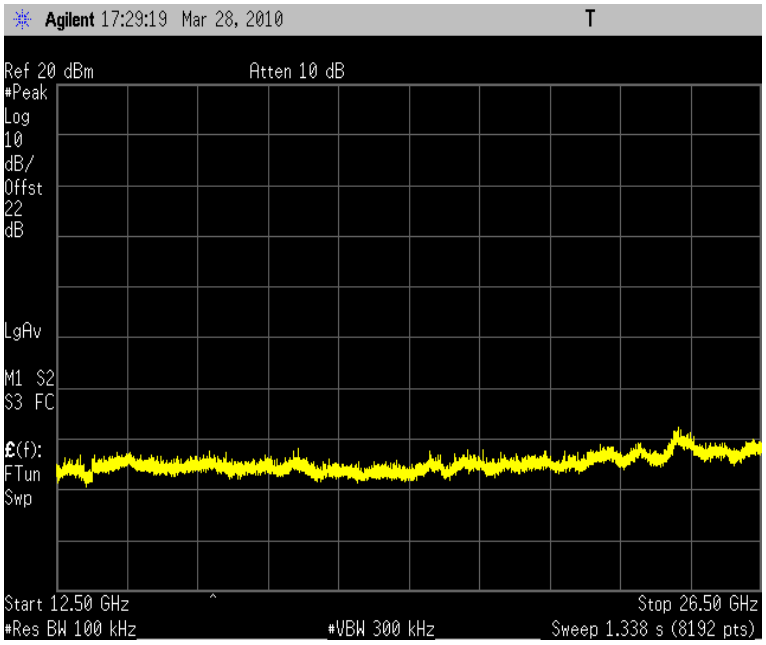
802.11(a) 6 Mbps, Mid Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



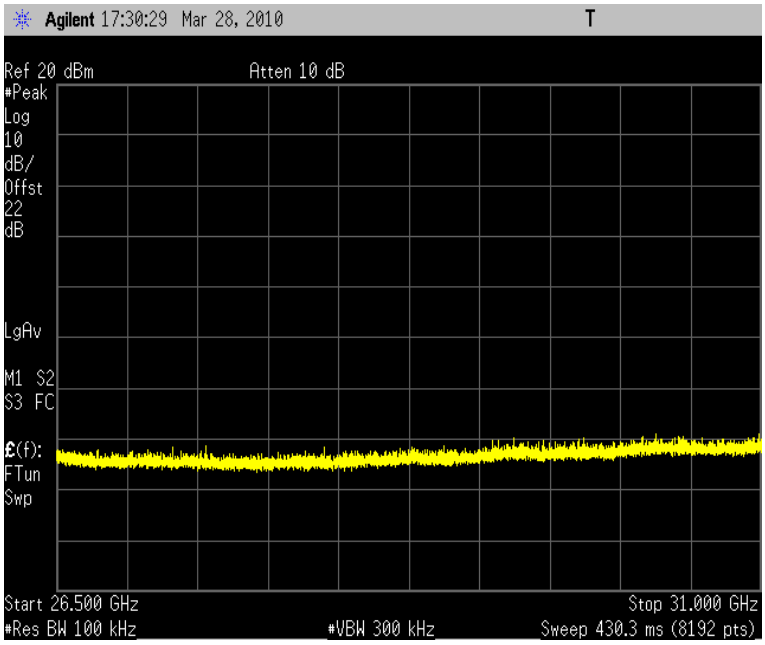
802.11(a) 6 Mbps, Mid Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



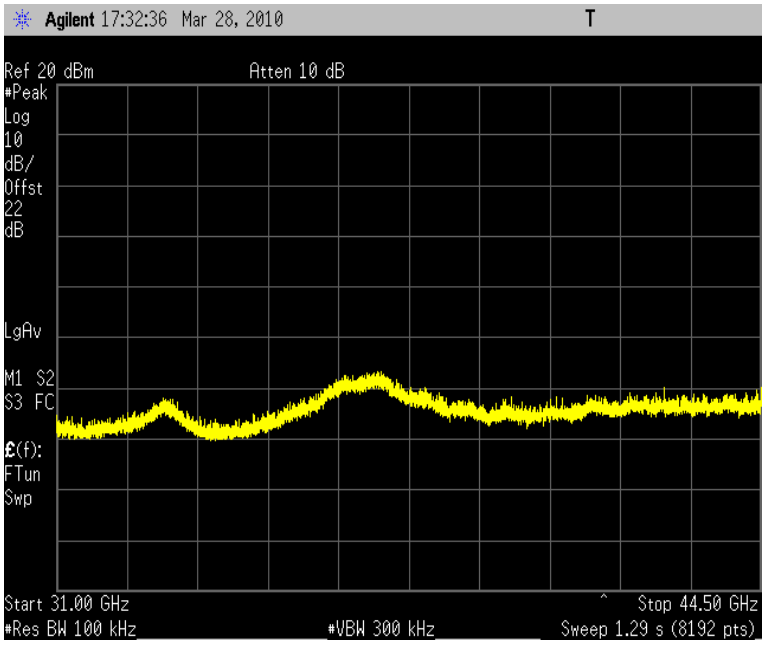
802.11(a) 6 Mbps, High Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



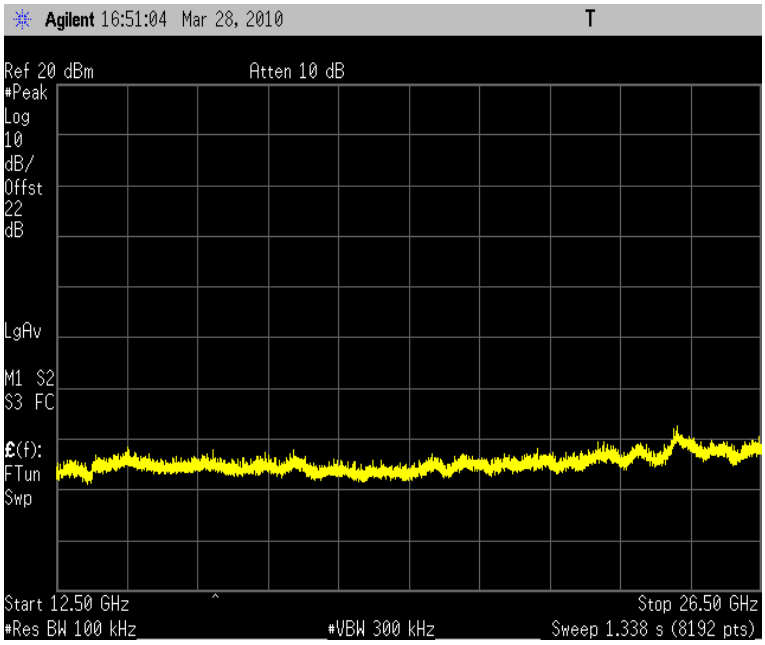
802.11(a) 6 Mbps, High Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



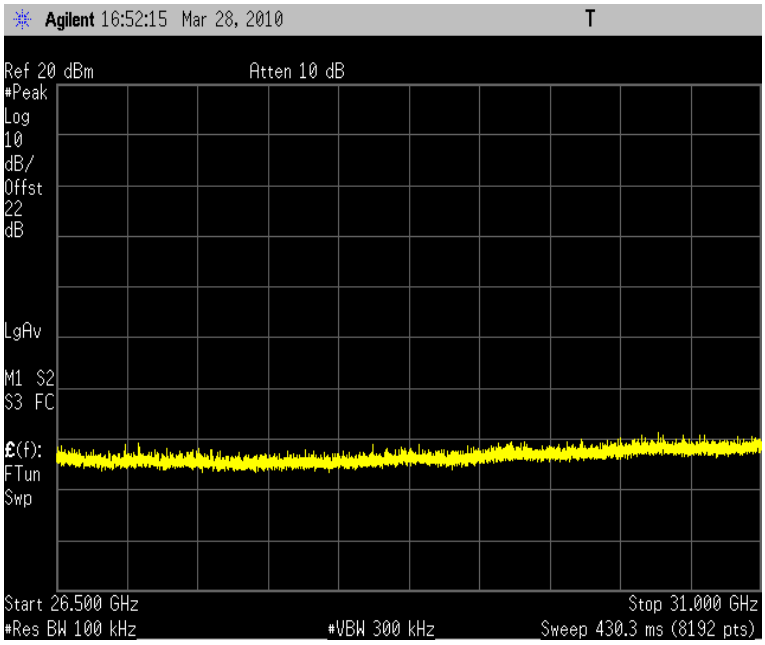
802.11(a) 6 Mbps, High Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



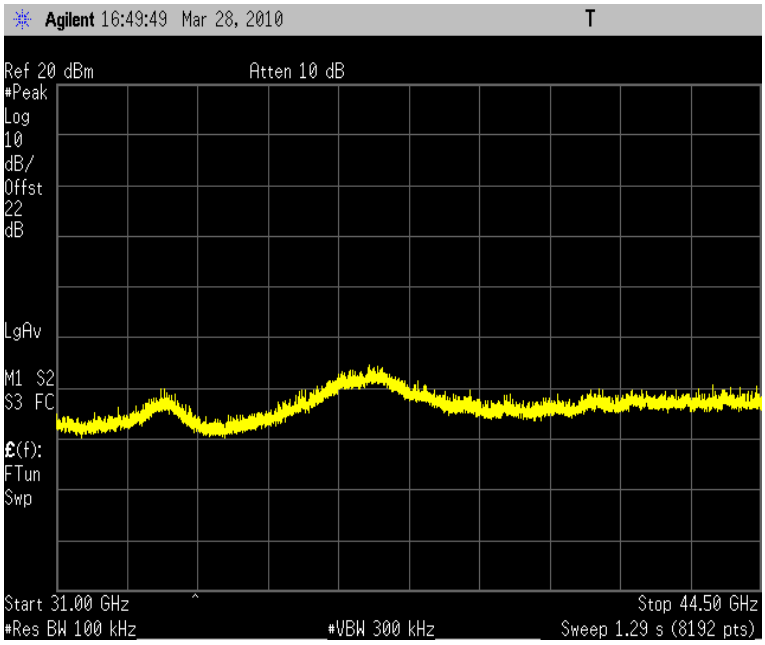
802.11(a) 36 Mbps, Low Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



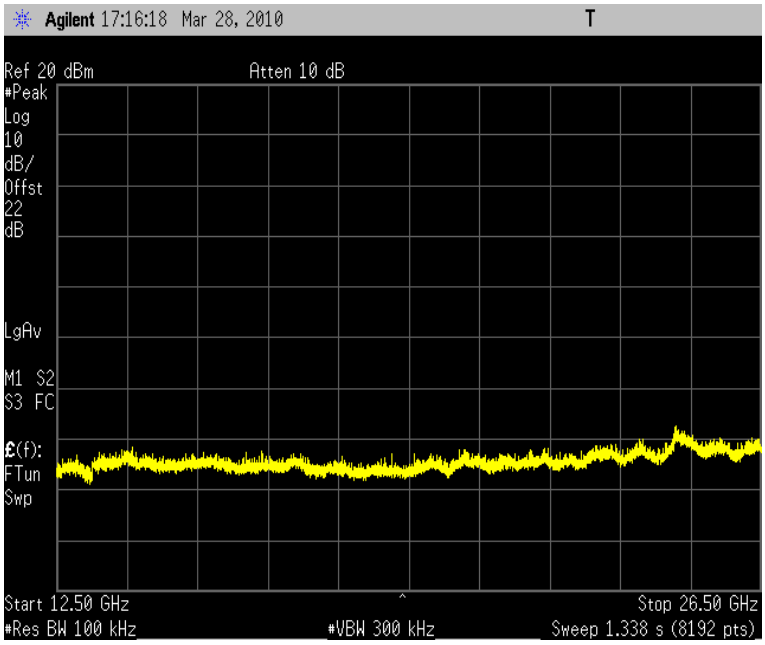
802.11(a) 36 Mbps, Low Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



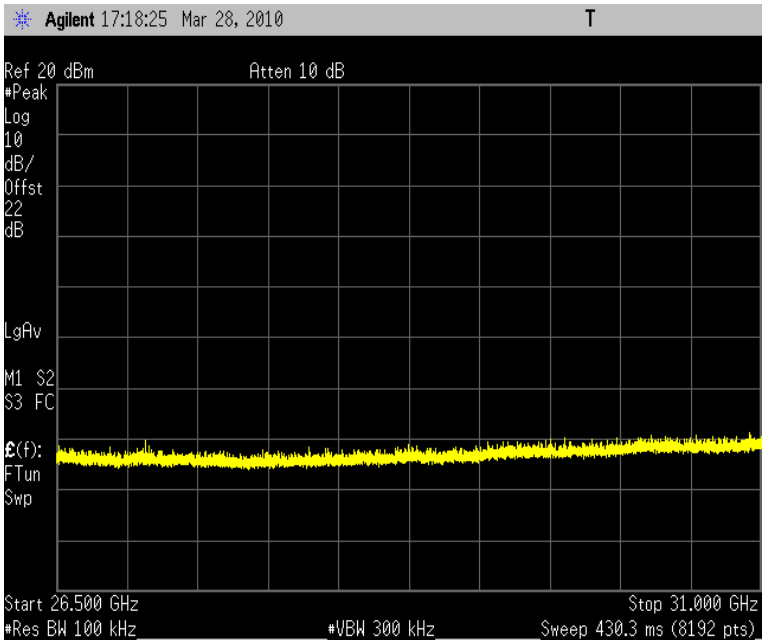
802.11(a) 36 Mbps, Low Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



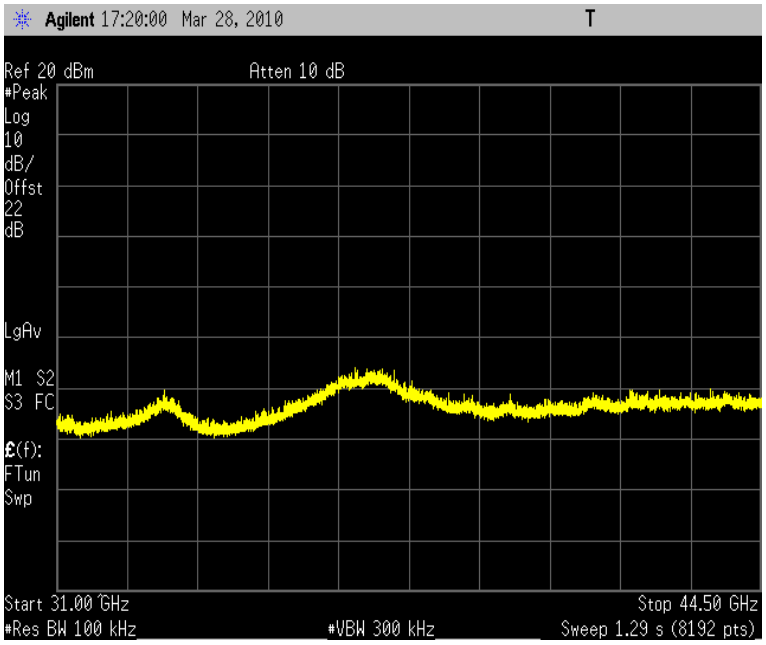
802.11(a) 36 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



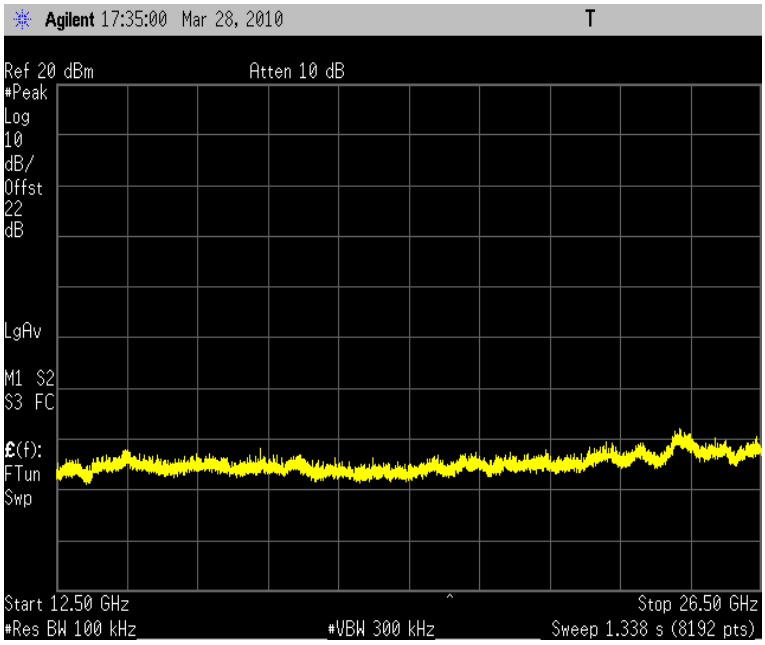
802.11(a) 36 Mbps, Mid Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



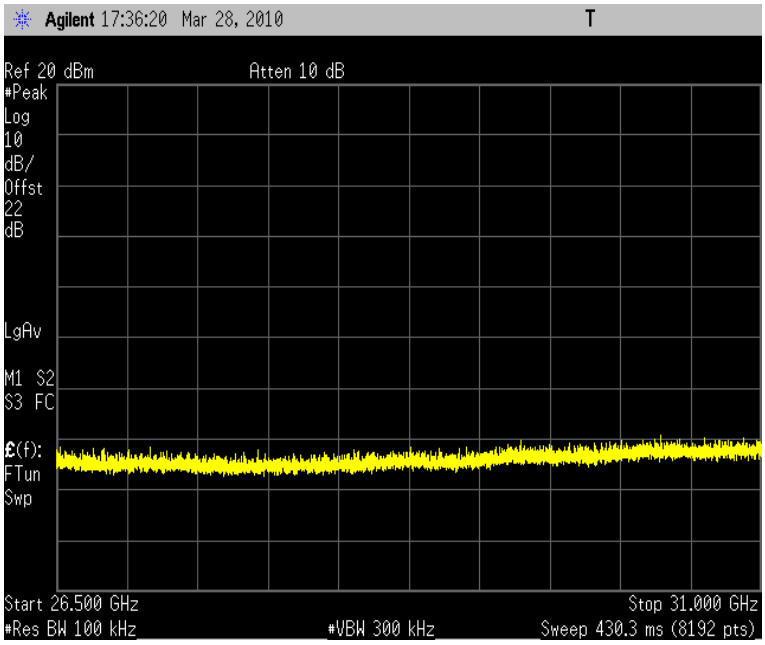
802.11(a) 36 Mbps, Mid Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



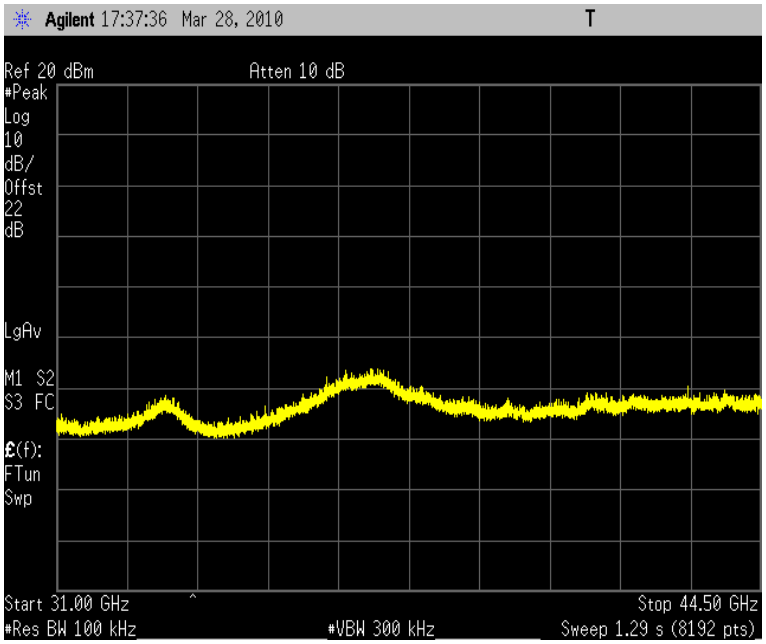
802.11(a) 36 Mbps, High Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



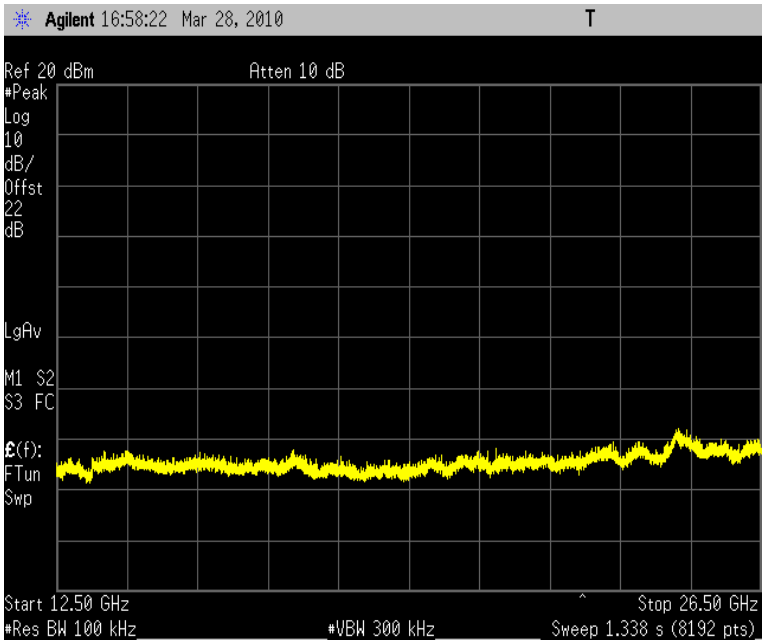
802.11(a) 36 Mbps, High Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



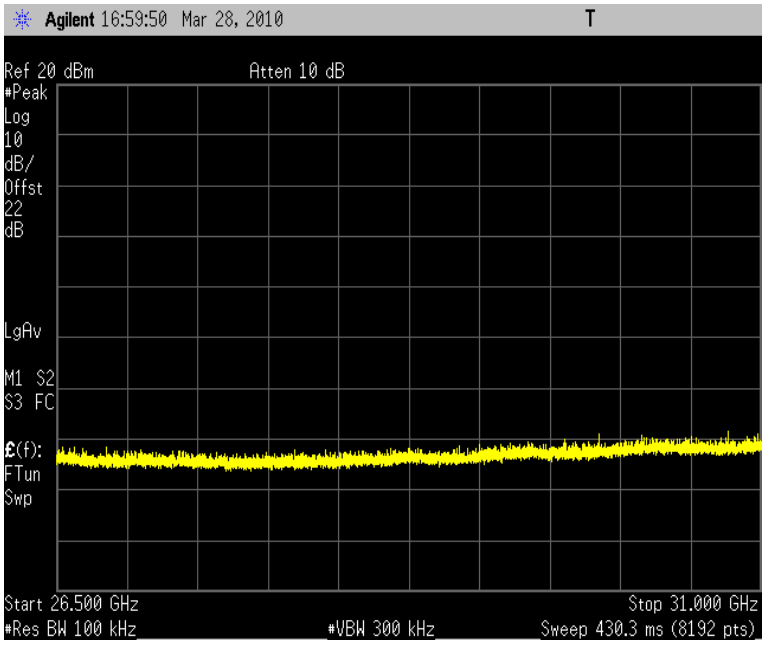
802.11(a) 36 Mbps, High Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



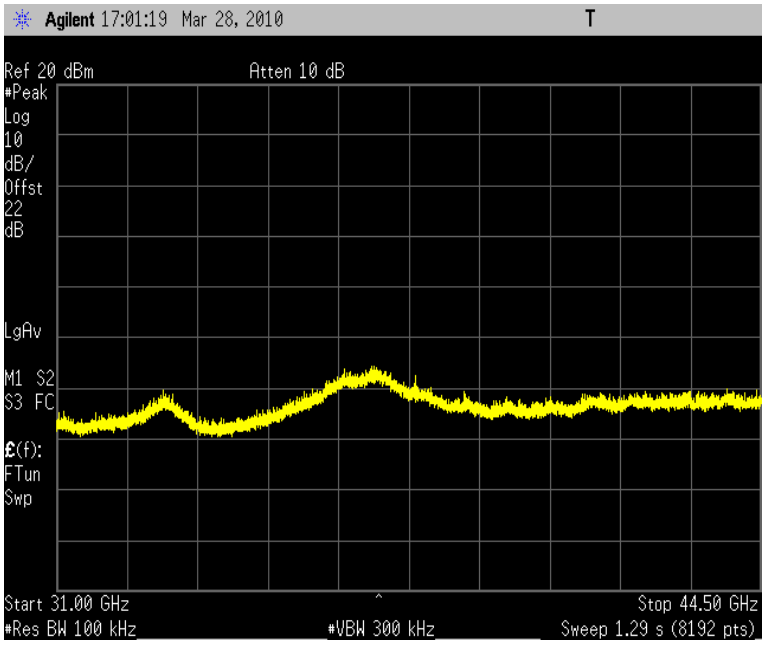
802.11(a) 54 Mbps, Low Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



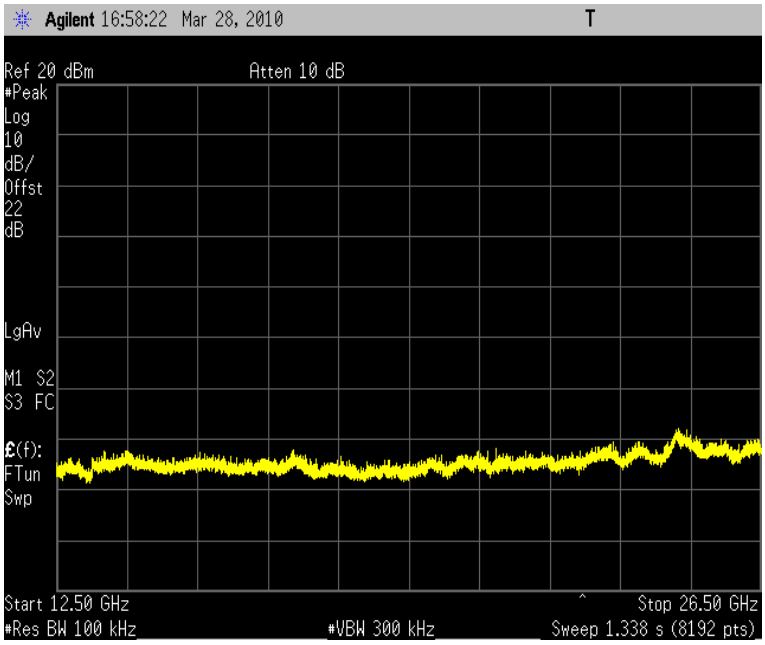
802.11(a) 54 Mbps, Low Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



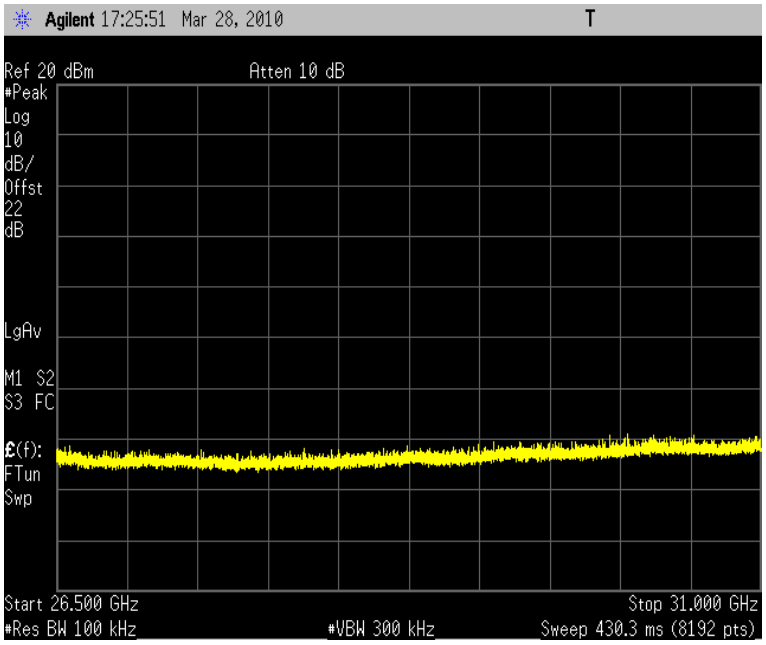
802.11(a) 54 Mbps, Low Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



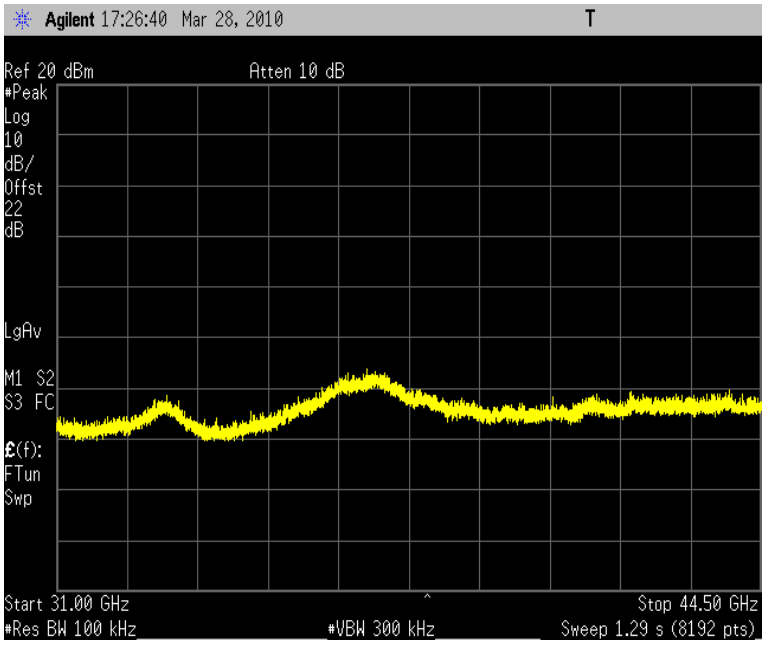
802.11(a) 54 Mbps, Mid Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



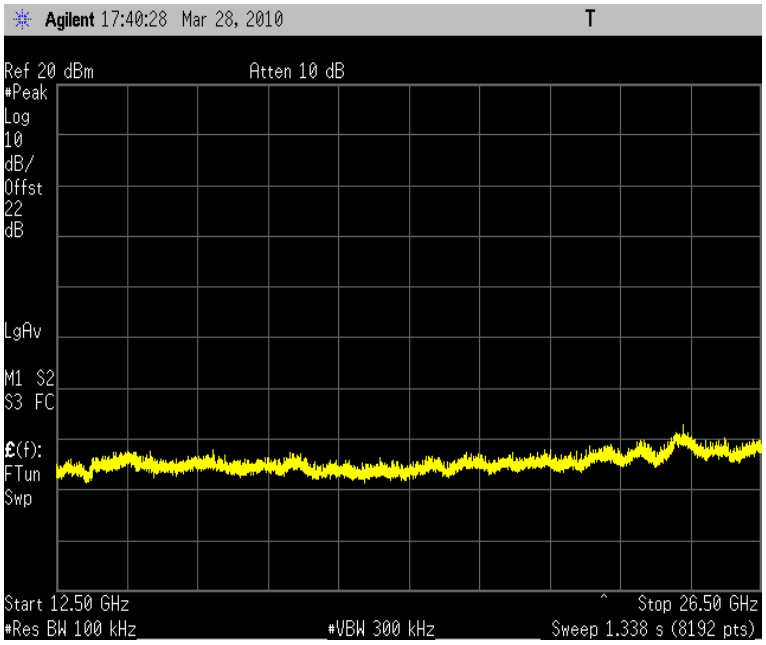
802.11(a) 54 Mbps, Mid Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



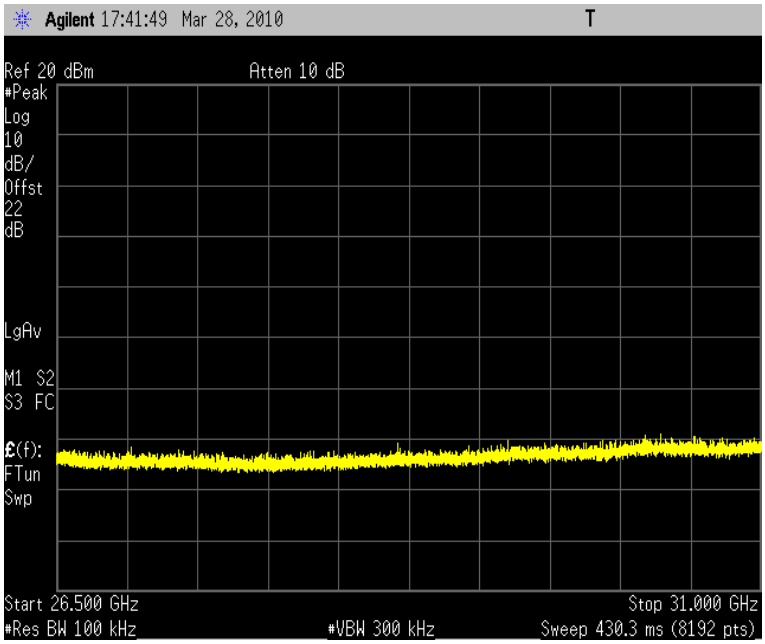
802.11(a) 54 Mbps, Mid Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



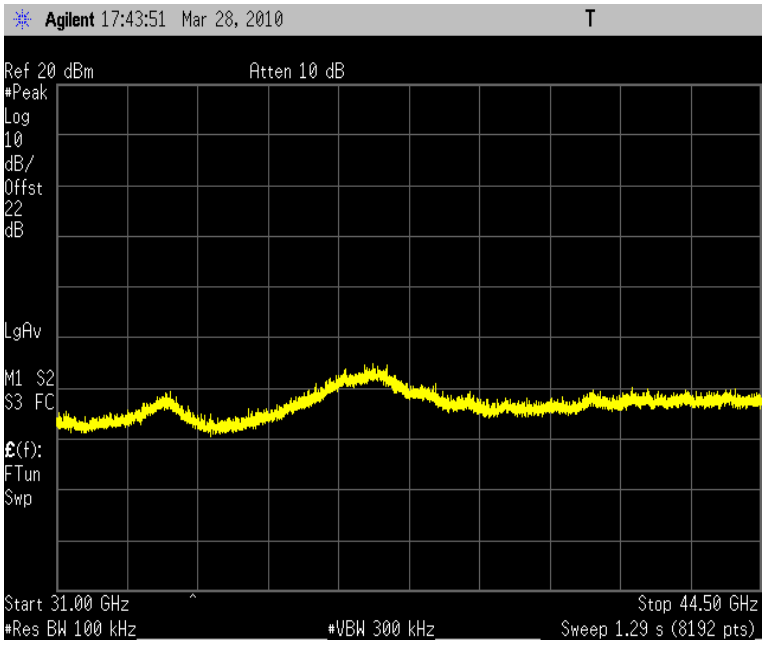
802.11(a) 54 Mbps, High Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



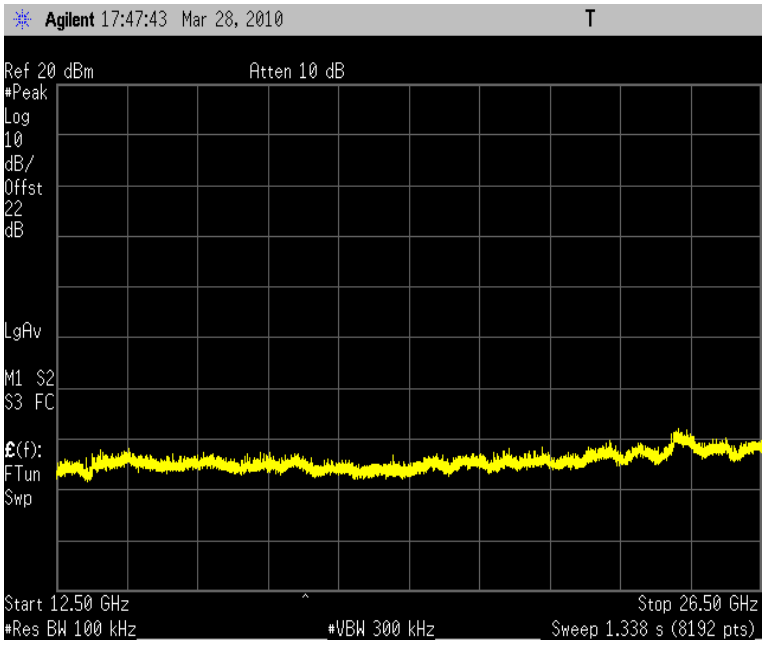
802.11(a) 54 Mbps, High Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



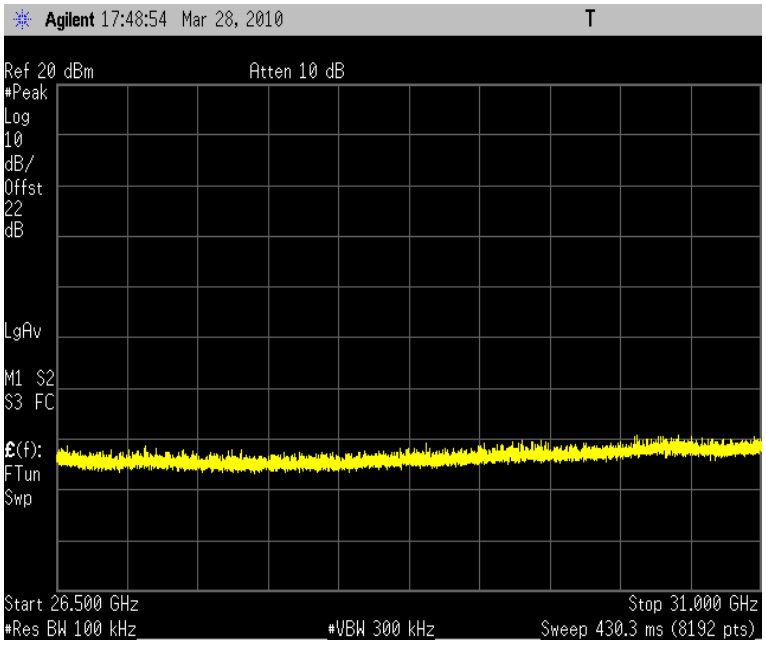
802.11(a) 54 Mbps, High Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



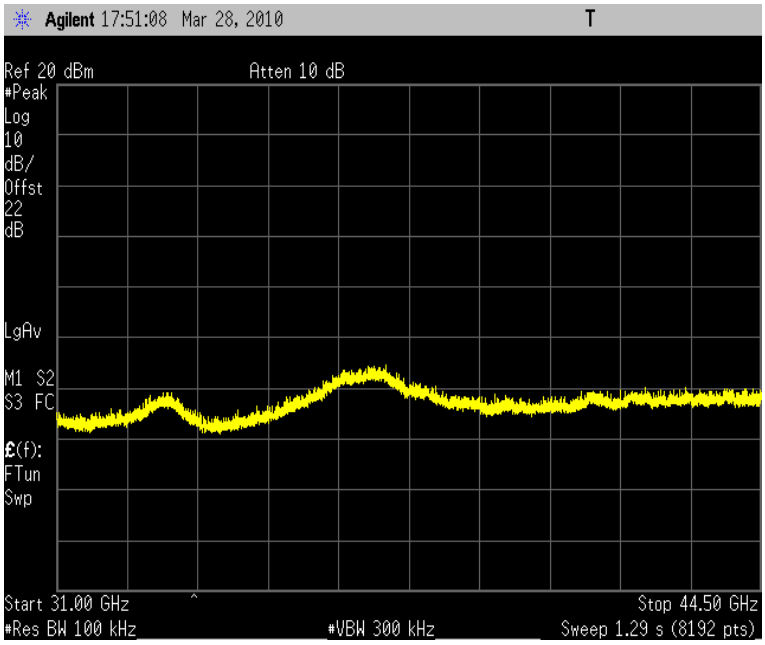
802.11(n), 5GHz 20MHz, Low Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



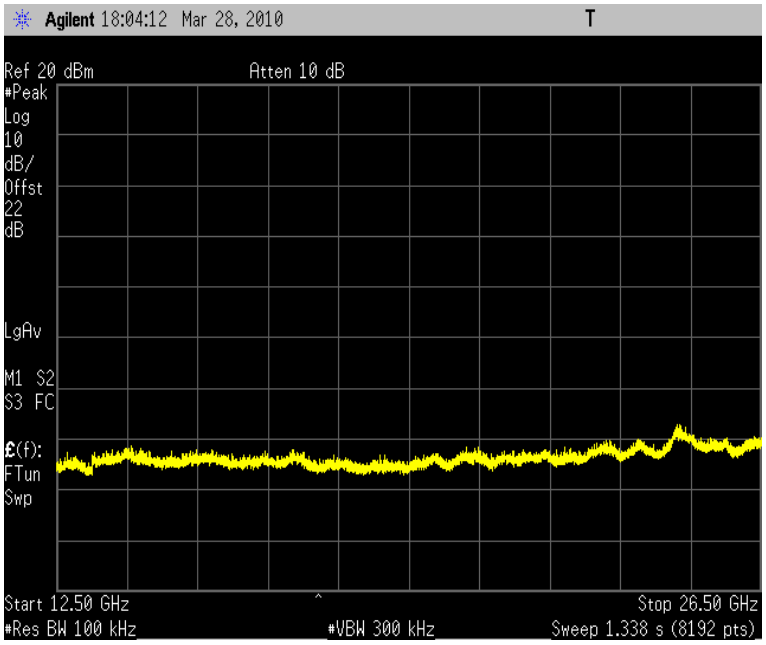
802.11(n), 5GHz 20MHz, Low Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



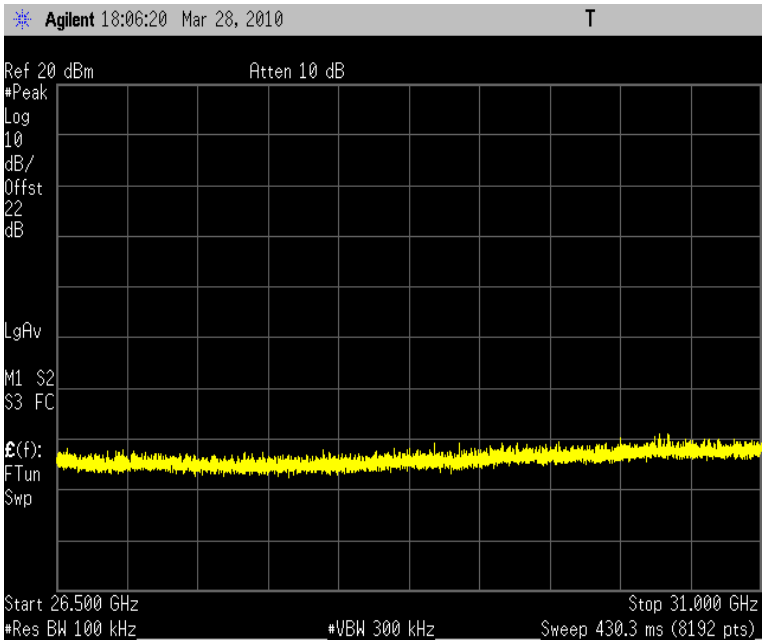
802.11(n), 5GHz 20MHz, Low Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



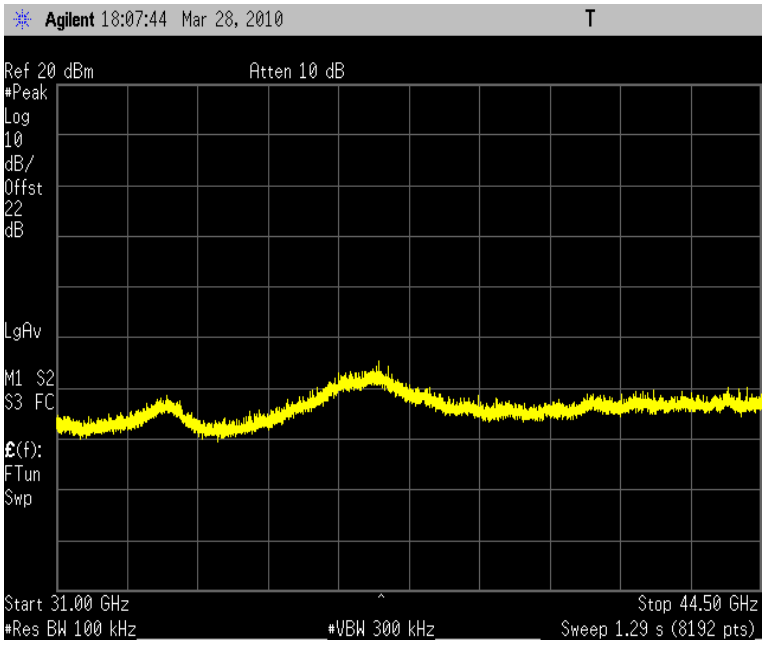
802.11(n), 5GHz 20MHz, Mid Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



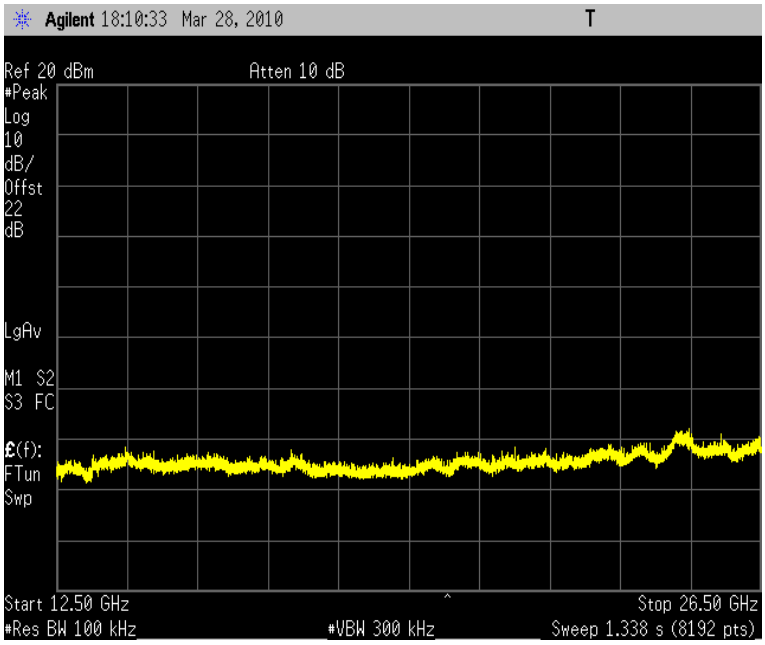
802.11(n), 5GHz 20MHz, Mid Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



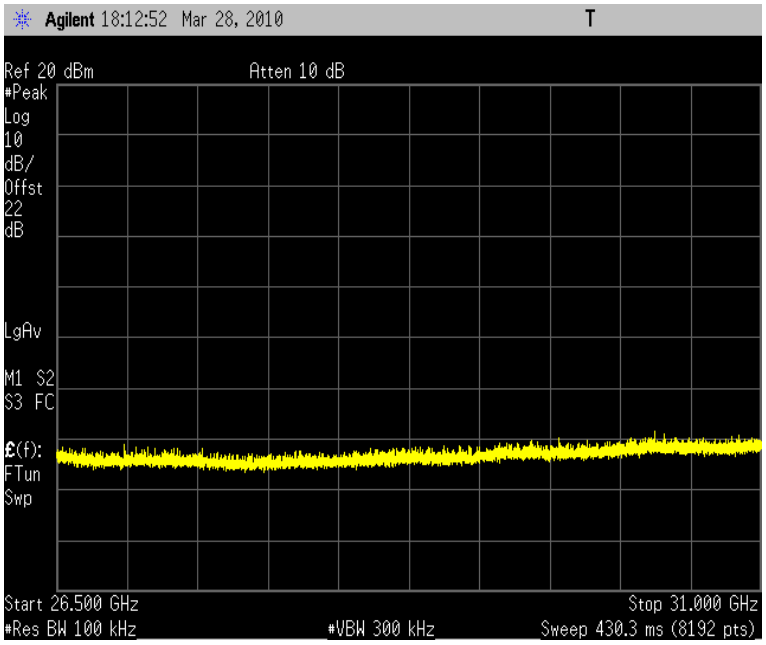
802.11(n), 5GHz 20MHz, Mid Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



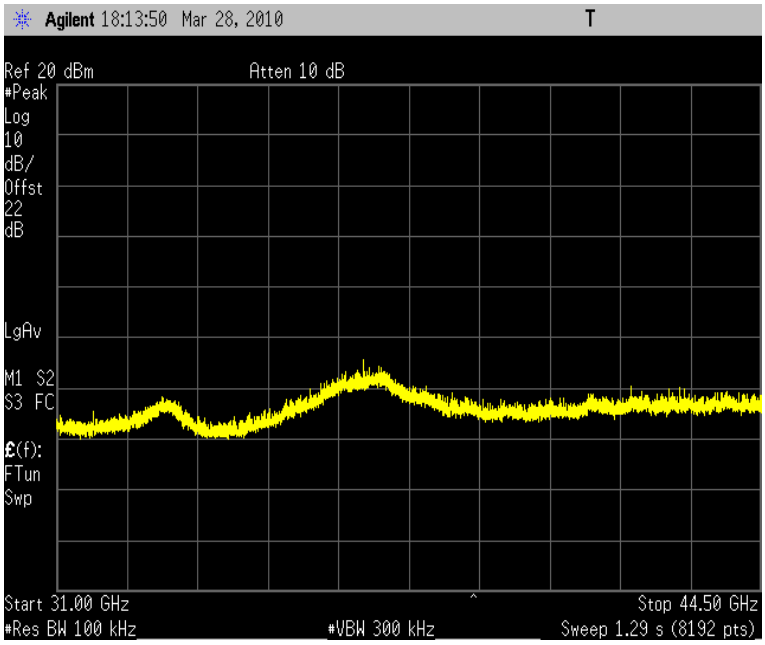
802.11(n), 5GHz 20MHz, High Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



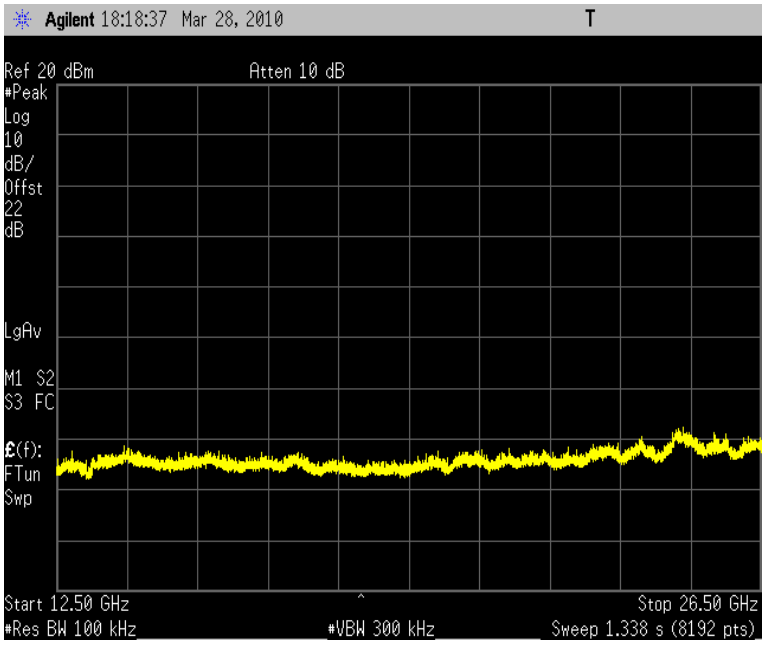
802.11(n), 5GHz 20MHz, High Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



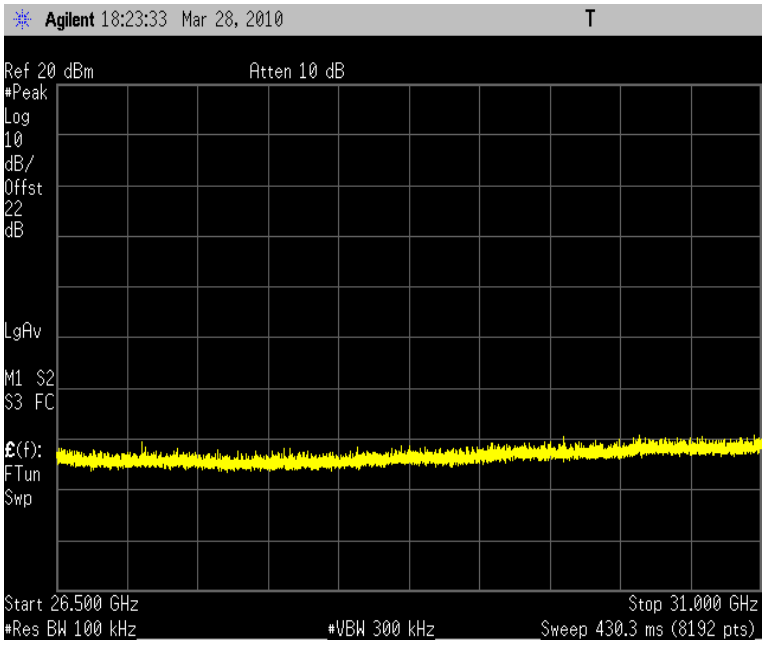
802.11(n), 5GHz 20MHz, High Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



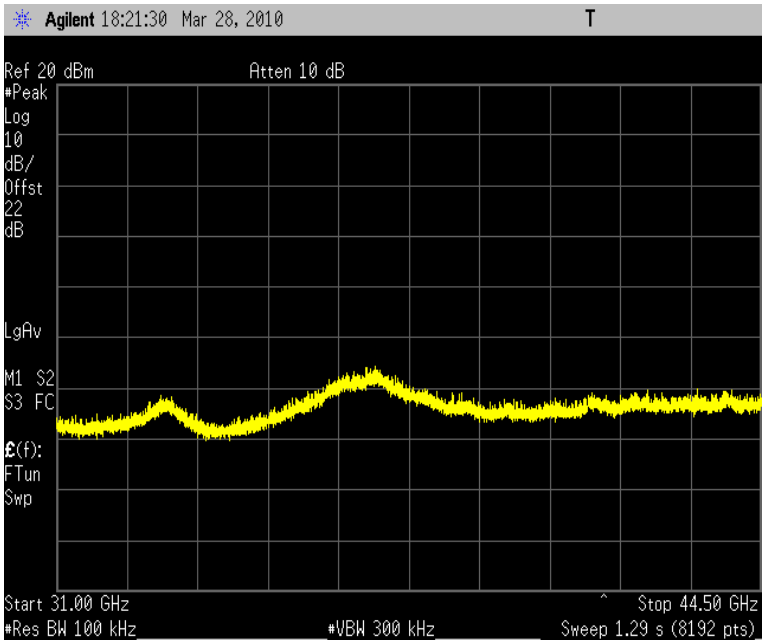
802.11(n), 5GHz 40MHz, Low Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



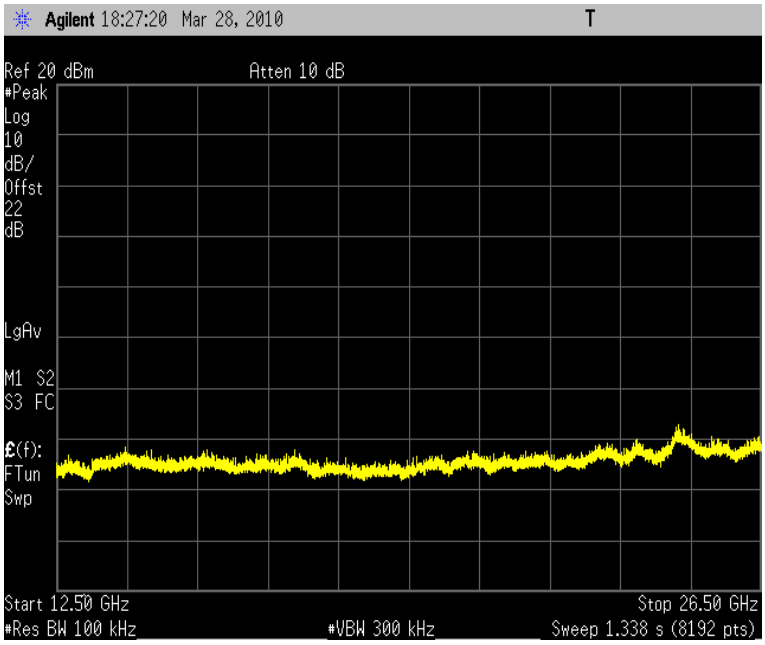
802.11(n), 5GHz 40MHz, Low Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



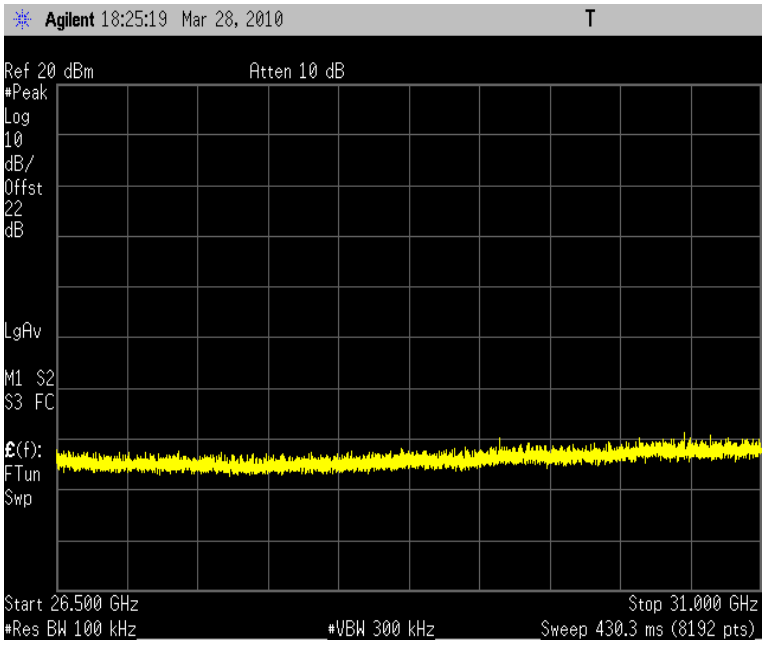
802.11(n), 5GHz 40MHz, Low Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



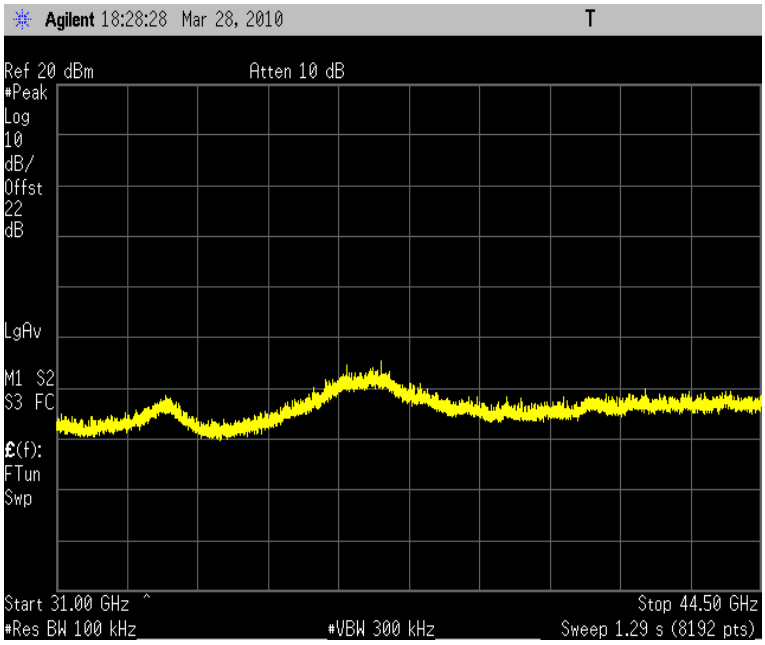
802.11(n), 5GHz 40MHz, Mid Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



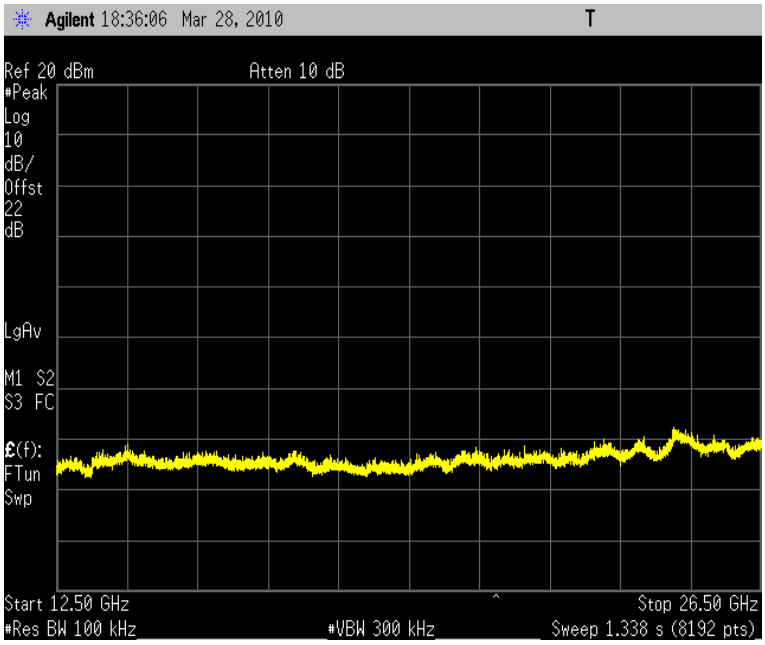
802.11(n), 5GHz 40MHz, Mid Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



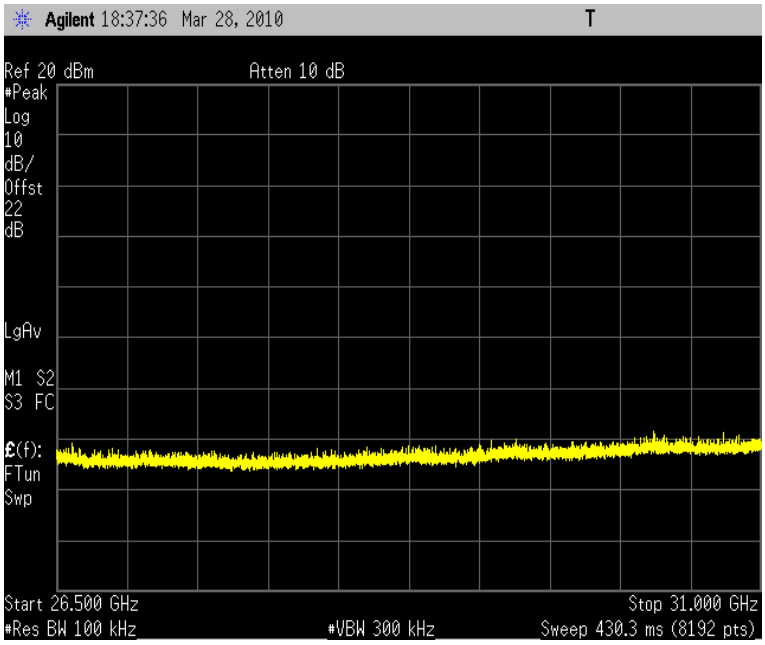
802.11(n), 5GHz 40MHz, Mid Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



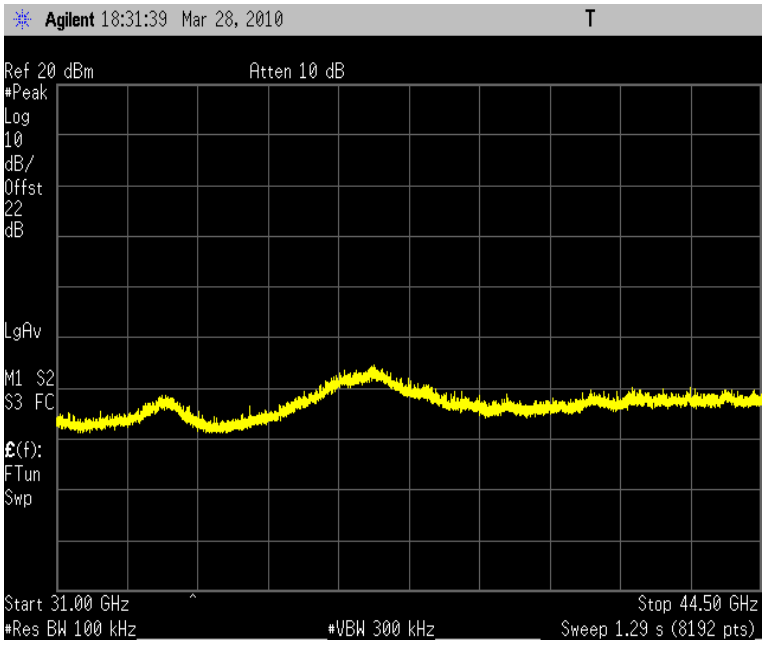
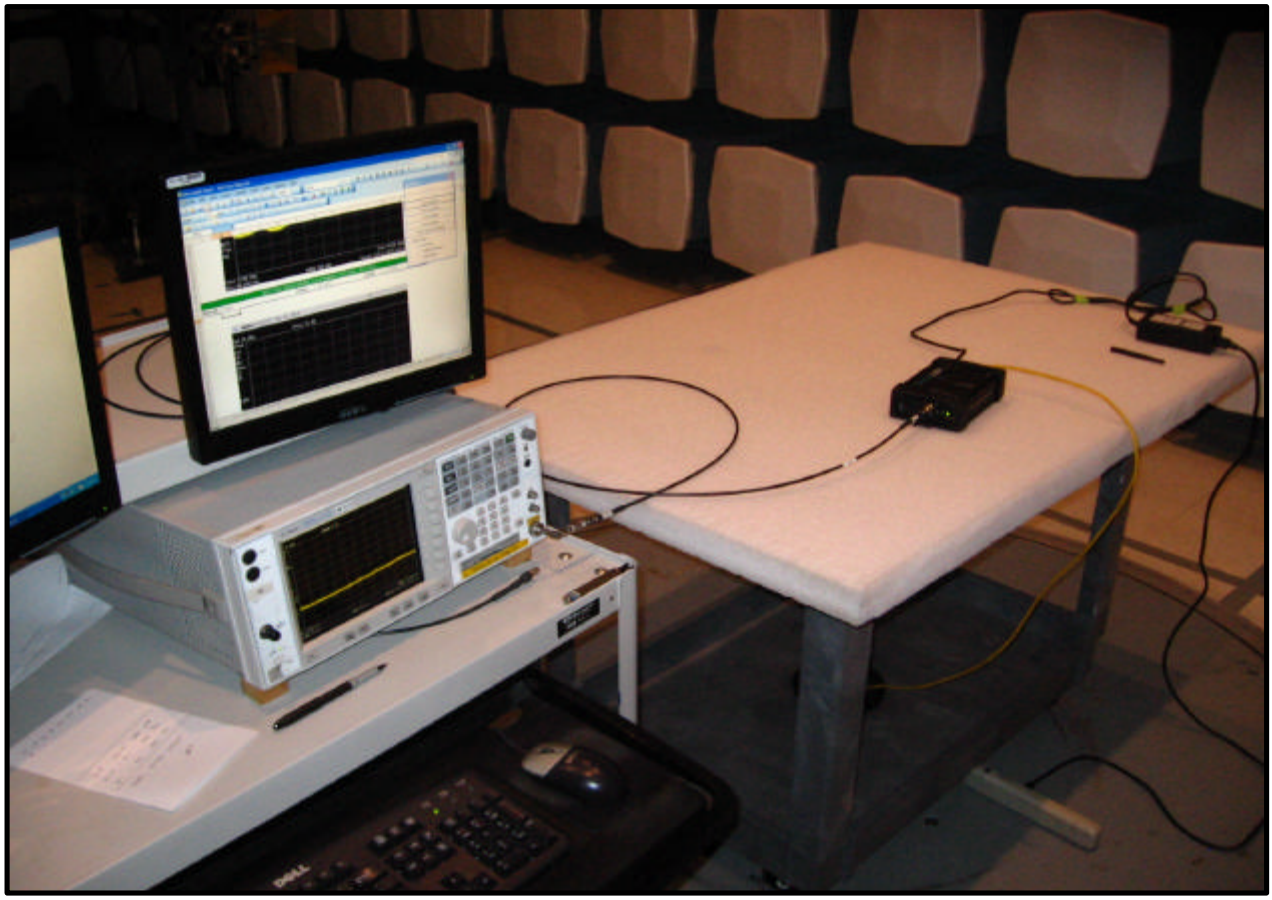
802.11(n), 5GHz 40MHz, High Channel, 12.5 GHz - 26.5 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



802.11(n), 5GHz 40MHz, High Channel, 26.5 GHz - 31 GHz		
Result: Pass	**Value:** < -30 dBc	**Limit:** = -20 dBc



802.11(n), 5GHz 40MHz, High Channel, 31 GHz - 40 GHz		
Result: Pass	**Value:** < -40 dBc	**Limit:** = -20 dBc



SPURIOUS CONDUCTED EMISSIONS