Section 5

Test Report Part 1

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Test Equipment List

Test Equipment	Description
DUT	NextNet Wireless Base Transceiver Station Model No. BTS-2500-E S/N 0103X046RBAX15744632 RF Board S/N 0150-0100-6020210 Logic Board S/N 0150-0250-6040731 PS Board S/N 0200-0050-5510071
Spectrum Analyzer	Agilent E4440A S/N: MY44022791 Calibrated: 05/30/2004 Calibration due: 05/30/2006
Attenuator/Coaxial Cable (all applicable tests except harmonic frequencies)	Calibrated by user MCE/Weinshel Attenuator 30 dB, 10W Model: 37-30-34, S/N. BN 9845 Calibrated by user
Filter/Attenuator Assembly (harmonic frequency test only)	High Pass Filter 4-18 GHz, P/N H04G18G2, S/N 89099 Microwave Circuits 20 dB/10W Attenuator, MCE/Weinshel Model: 23-20-34, S/N BP4391 Calibrated by user
Computer	Dell Inspiron 5000 Model: PPM S/N: 000832RM-12961-04R-0441 Calibration not required
Ethernet Switch	D-Link Model: DSS-5+ 5 port 10/100Mbps S/N: B205335003173 Calibration not required
Power Supply 48V (All Tests Except Frequency Stability)	Lambda Model JWS600-48 S/N VVG-158C02-0082W050 Supply voltage verified with Digital Voltmeter listed below
Power Supply (Frequency Stability Test Only)	Agilent 6544A 0-60VDC S/N: US36390304 Calibrated with voltmeter listed below.
Digital Voltmeter	HP 34401A S/N: MY45001201 Calibrated: 4-9-2005 Calibration due: 4-9-2007

Test Equipment List (Cont'd)

Test Equipment	Description
Temperature Chamber	Test Equity (W) 1000 Series Temperature verified with K-Type thermocouple listed below.
Temperature Sensor	Fluke 89 IV True RMS Multimeter K-Type Thermocouple
Radiation Hazard Meter	General Microwave Corporation RAHAM Model 3 Calibrated: 10-20-2005 Calibration due: 10-20-2007

RF Power Output

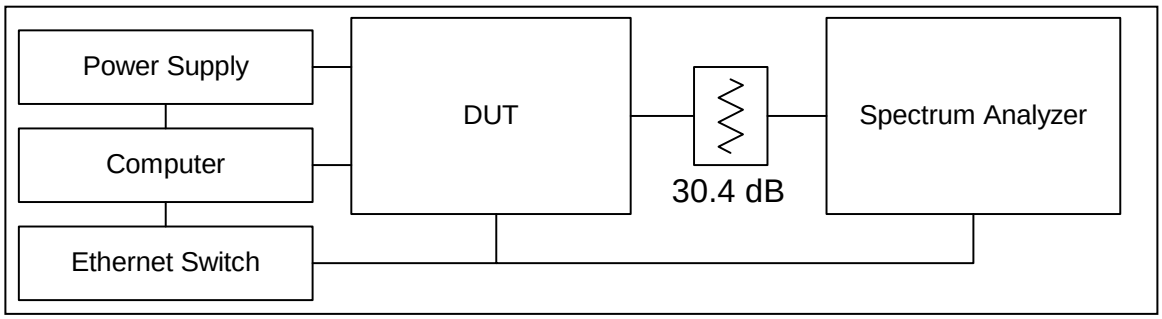
FCC Rules: 2.1046, 27.50(h)(1)
IC Rules: RSS-193 clauses 3.2(f), 3.4, 4.3
SRSP-302.5 clause 5.2

FCC Requirement: 33 dBW EIRP (5.5 MHz or 6.0 MHz channel BW)
IC Requirement: 20 watts conducted in 6 MHz bandwidth
24.2 dBW in any 1 MHz bandwidth EIRP

Standard: TIA-603-C
TIA Standard, Land Mobile FM or PM Communications Equipment, Measurement and Performance Standards

Test Procedure: The radiated power of the base station is calculated from the maximum antenna gain and the conducted power available at the antenna port. The conducted RF output power was measured with a spectrum analyzer utilizing the power measurement function built into the analyzer. The RF output is applied to an attenuator that is connected to the spectrum analyzer RF input port. An RMS detector is used to measure the average power during the transmission. The transmitter is enabled in test mode by the attached computer. The RF loss of the attenuators and coax has been measured and is included in the spectrum analyzer offset level and is noted on the block diagram. Measurements are performed at several frequencies across the band for each of the modulation formats available (4-, 16-, and 64-QAM) and channel bandwidths (5.5 MHz and 6.0 MHz). RF power is calibrated at the antenna port, the channel filter that is required for emissions compliance is not used for this test since the 5.5 watts is the power applied to the channel filter.

Test Conditions: Test Frequencies: 2503, 2593, 2689 MHz (2 and 5.5 watts, 5.5 and 6.0 MHz bandwidth)
Temperature = 25°C
Supply Voltage = 48.0 VDC Nominal to DUT



2W and 5.5W Conducted RF Power Test Setup

Maximum (2W) Conducted RF Output Test Results

2W Maximum Conducted Power							
Freq (MHz)	Bandwidth	QPSK		16 QAM		64 QAM	
		(dBm)	(Watts)	(dBm)	(Watts)	(dBm)	(Watts)
2503	6.0 MHz	32.87	1.94	32.87	1.94	32.87	1.94
2593	6.0 MHz	32.91	1.95	32.91	1.95	32.91	1.95
2689	6.0 MHz	32.15	1.64	32.16	1.64	32.16	1.64
2503	5.5 MHz	32.86	1.93	32.87	1.94	32.87	1.94
2593	5.5 MHz	32.91	1.95	32.91	1.95	32.90	1.95
2689	5.5 MHz	32.17	1.65	32.17	1.65	32.17	1.65

Maximum (5.5W) Conducted RF Output Test Results

5.5W Maximum Conducted Power							
Freq (MHz)	Bandwidth	QPSK		16 QAM		64 QAM	
		(dBm)	(Watts)	(dBm)	(Watts)	(dBm)	(Watts)
2503	6.0 MHz	37.11	5.14	37.11	5.14	37.10	5.13
2593	6.0 MHz	37.23	5.28	37.20	5.25	37.19	5.24
2689	6.0 MHz	36.49	4.46	36.47	4.44	36.48	4.45
2503	5.5 MHz	37.08	5.11	37.08	5.11	37.08	5.11
2593	5.5 MHz	37.20	5.25	37.20	5.25	37.20	5.25
2689	5.5 MHz	36.47	4.44	36.46	4.43	36.47	4.44

Minimum Conducted RF Output Test Results

1 mW Minimum Conducted Power							
Freq (MHz)	Bandwidth	QPSK		16 QAM		64 QAM	
		(dBm)	(Watts)	(dBm)	(Watts)	(dBm)	(Watts)
2503	6.0 MHz	-0.01	0.00100	0.0	0.00100	-0.01	0.00100
2593	6.0 MHz	-0.23	0.00095	-0.23	0.00095	-0.24	0.00095
2689	6.0 MHz	0.86	0.00122	0.86	0.00122	0.86	0.00122
2503	5.5 MHz	0.0	0.00100	-0.01	0.00100	0.01	0.00100
2593	5.5 MHz	-0.22	0.00095	-0.22	0.00095	-0.22	0.00095
2689	5.5 MHz	0.87	0.86000	0.86	0.00122	0.87	0.00122

RF Power Output (Cont'd)

Test Conclusions: 2-watt Tx power setting (for maximum antenna gain of 19 dBi)

Vertically or Horizontally Polarized Antenna

RF Power Output = 33 dBm (5.5 MHz or 6.0 MHz channel BW)
Vertical Antenna Gain = 19 dBi
Transmitted Power = RF Power + Isotropic Antenna Gain
Transmitted Power = 33 + 19 = 52 dBim = 158.49 Watts EIRP
(FCC) Transmitted Power = 10*log(158.49) = 22 dBW EIRP
Convert to power in 1 MHz BW
$(158.49/6x10^6)*1x10^6$ = 26.42 Watts EIRP / 1 MHz
(IC) Transmitted Power = 10*log(26.42) = 14.22 dBW/1 MHz EIRP
Pass: Transmitted Power Output Requirement at 2 watt setting

Test Conclusions: 5.5-watt Tx power setting (for maximum antenna gain of 19 dBi)

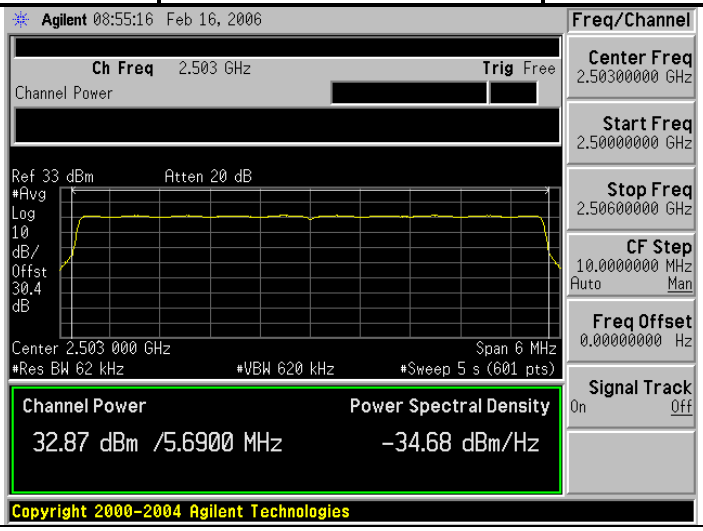
Vertically or Horizontally Polarized Antenna

RF Power Output = 37.4 dBm (5.5 MHz or 6.0 MHz channel BW)
Vertical Antenna Gain = 19 dBi
Transmitted Power = RF Power + Isotropic Antenna Gain
Transmitted Power = 37.4 + 19 = 56.4 dBm = 436.5 Watts EIRP
(FCC) Transmitted Power = 10*log(436.5) = 26.4 dBW EIRP
Convert to power in 1 MHz BW
$(436.5/6x10^6)*1x10^6$ = 72.75 Watts EIRP / 1 MHz
(IC) Transmitted Power = 10*log(72.75) = 18.62 dBW/1 MHz EIRP
Pass: Transmitted Power Output Requirement at 5.5 watt setting

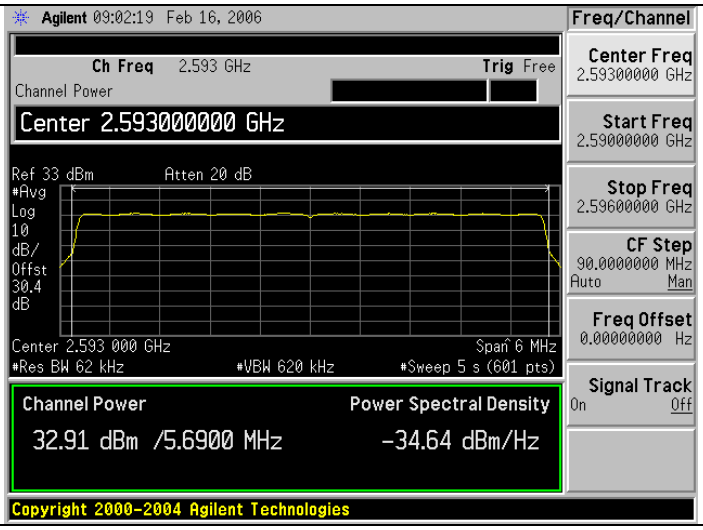
Conducted RF Power Output Plots

NOTE: The following are spectrum analyzer plots of the 4 QAM data in the preceding tables. The plots for the 16 and 64 QAM modulation levels are similar and are located in the Appendix.

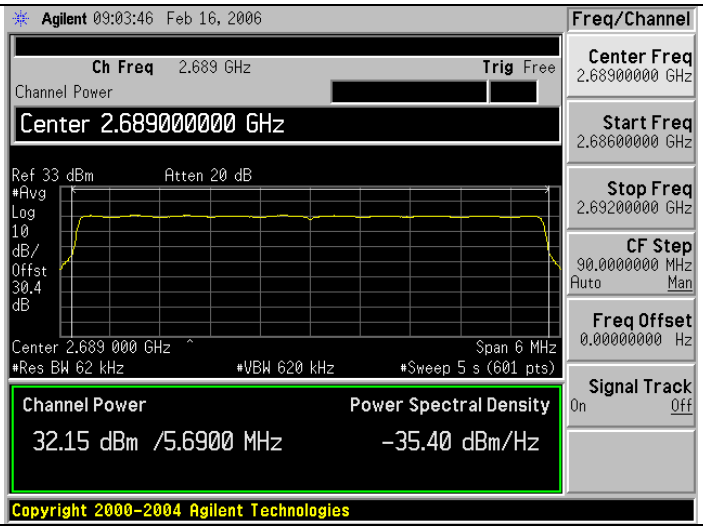
Bandwidth: 6.0 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

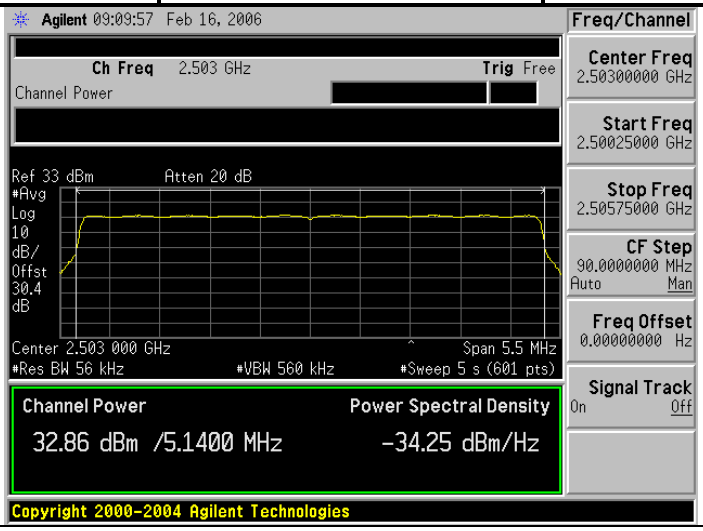


2593 MHz

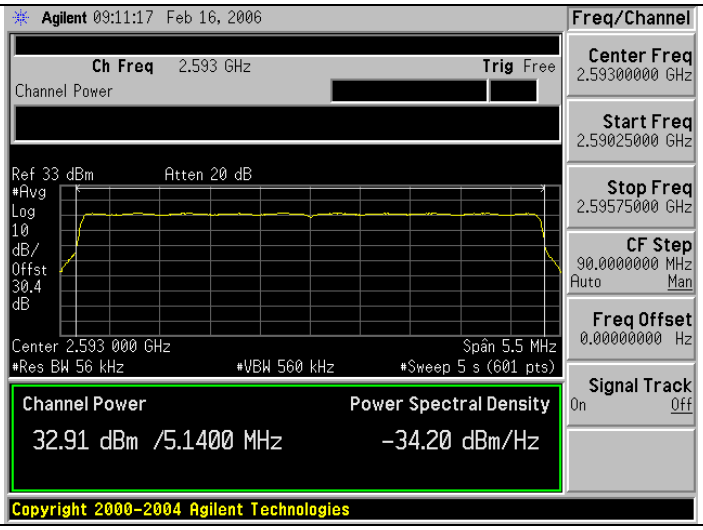


2689 MHz

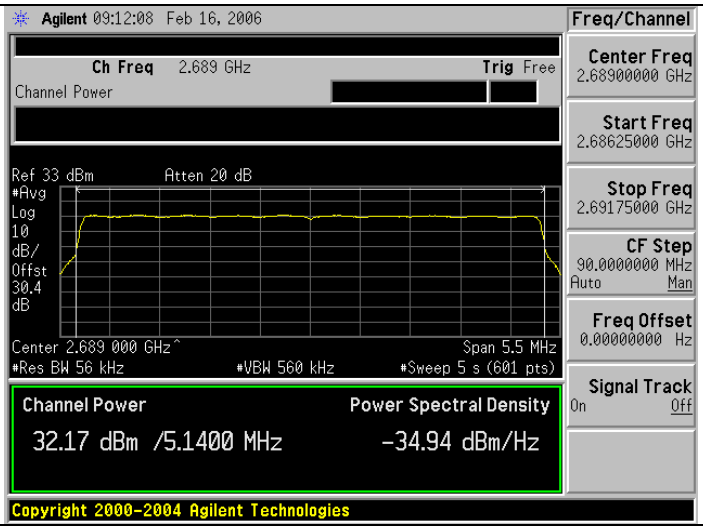
Bandwidth: 5.5 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

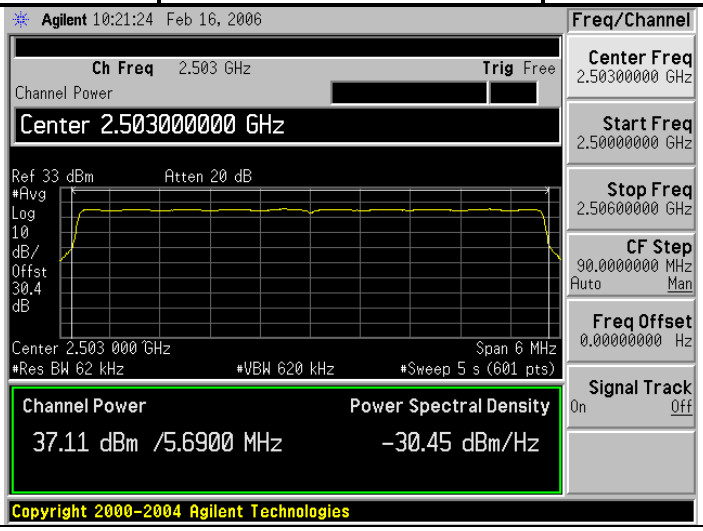


2593 MHz

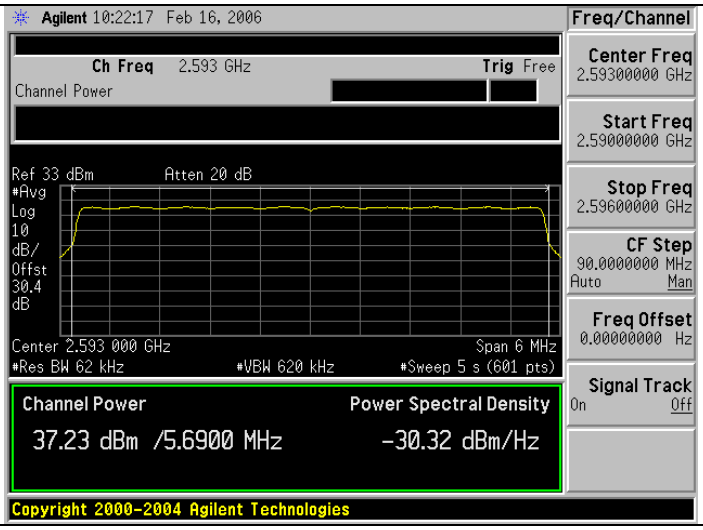


2689 MHz

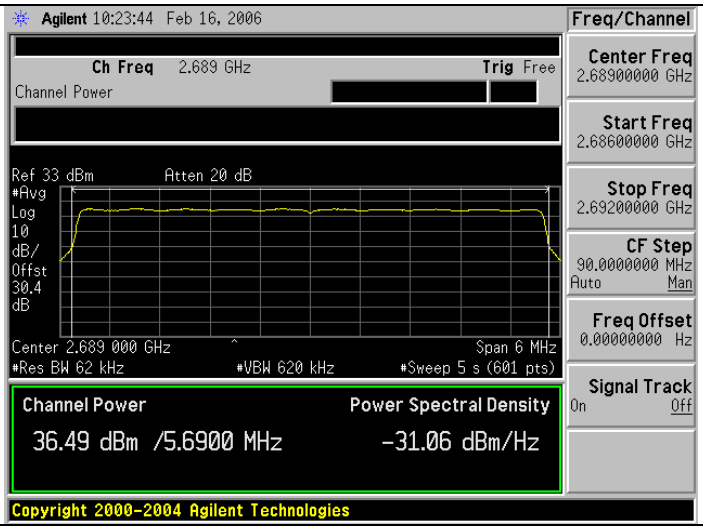
Bandwidth: 6.0 MHz	RF Power: 5.5 Watts	Modulation: 4 QAM



2503 MHz

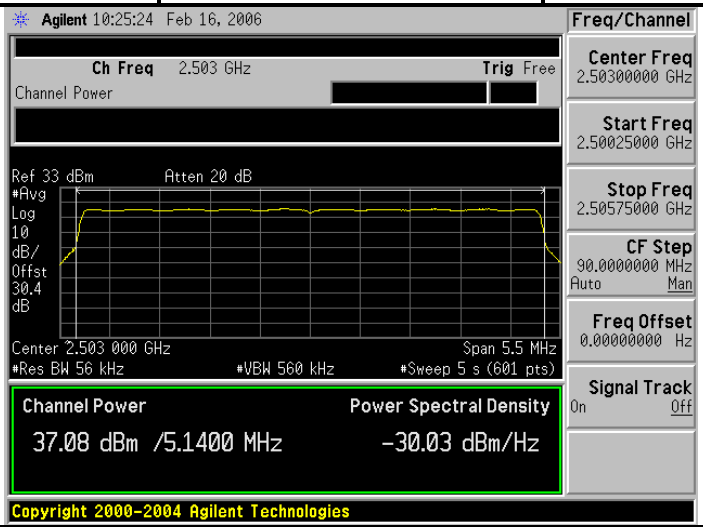


2593 MHz

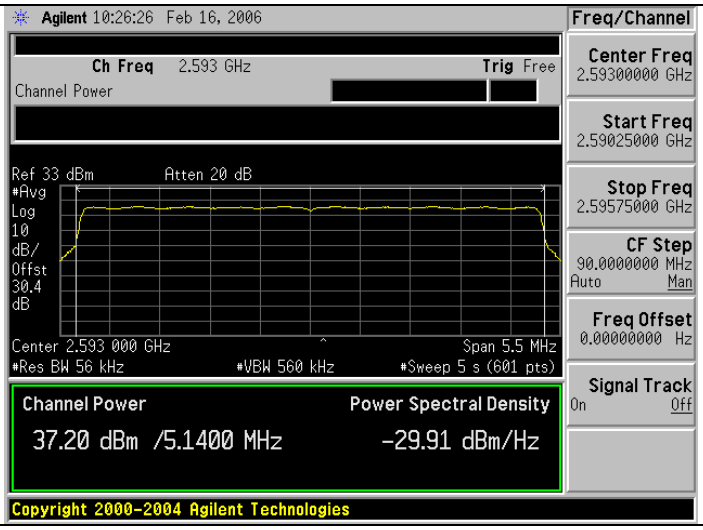


2689 MHz

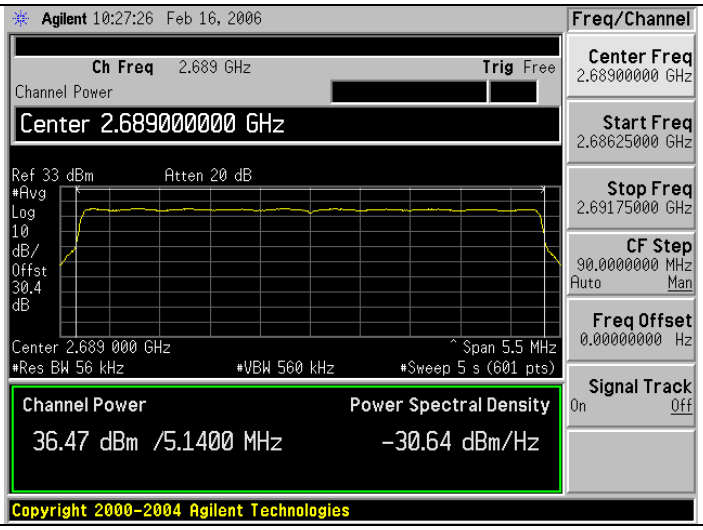
Bandwidth: 5.5 MHz	RF Power: 5.5 Watts	Modulation: 4 QAM



2503 MHz

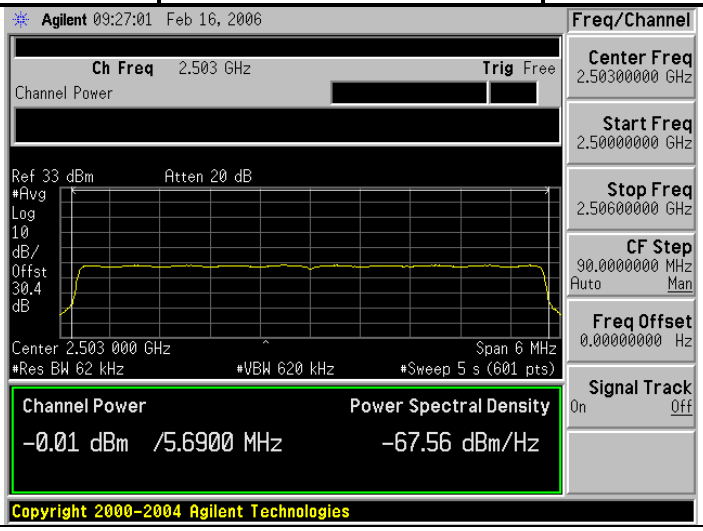


2593 MHz

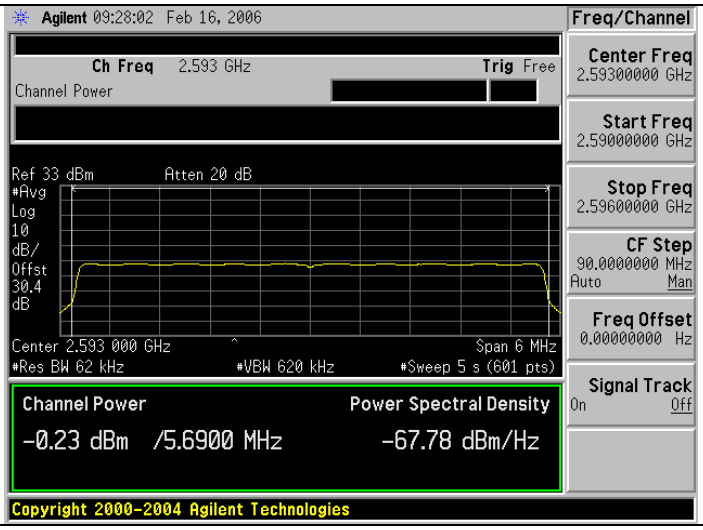


2689 MHz

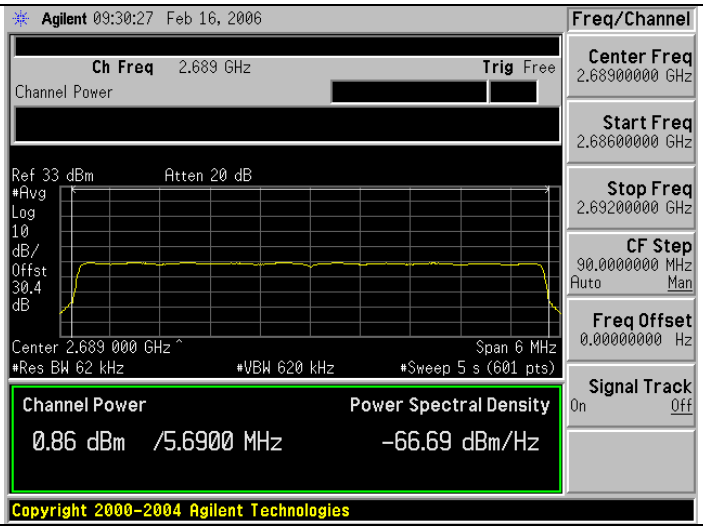
Bandwidth: 6.0 MHz	RF Power: 1 Milliwatt	Modulation: 4 QAM



2503 MHz

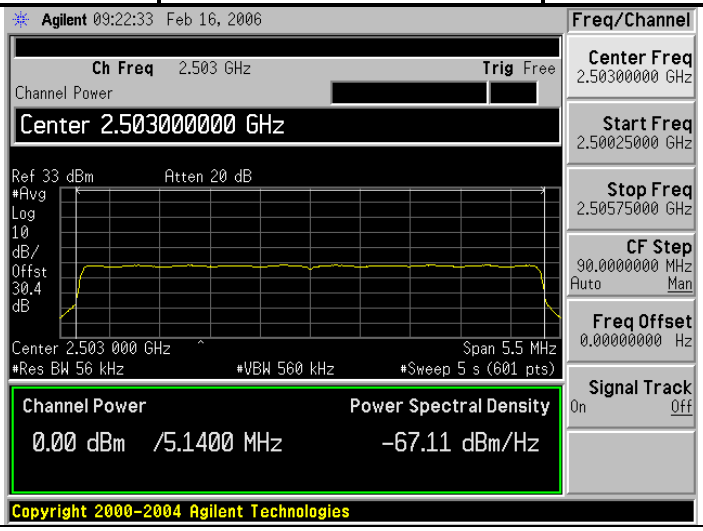


2593 MHz

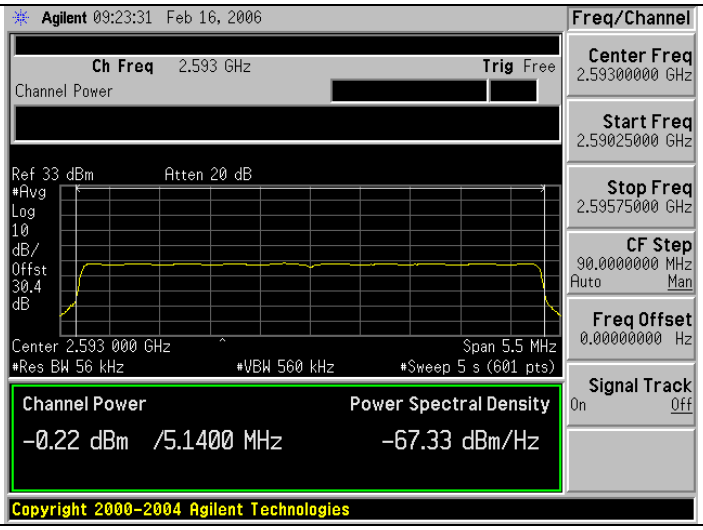


2689 MHz

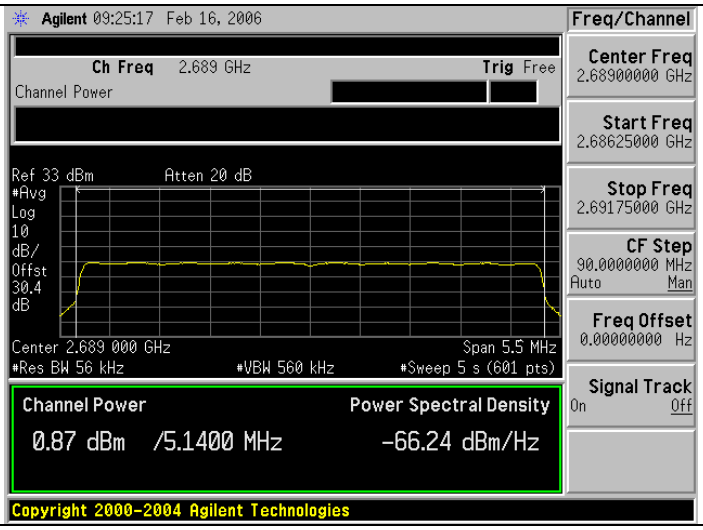
Bandwidth: 5.5 MHz	RF Power: 1 Milliwatt	Modulation: 4 QAM



2503 MHz



2593 MHz



2689 MHz

Modulation Characteristics (FCC)

FCC Rules: 2.1047(d), 27.53(l)(2), 27.53(l)(6)

FCC requirement: Attenuation at band edge = 43 + 10*log(P), P= 2 watts
Attenuation at band edge = 43 + 10*log(2) = 43 + 3
Attenuation at band edge = 46 dB (equates to -13 dBm)

Attenuation at band edge = 43 + 10*log(P), P= 5.5 Watts
Attenuation at band edge = 43 + 10*log(5.5) = 43 + 7.4
Attenuation at band edge = 50.4 dB (equates to -13 dBm)

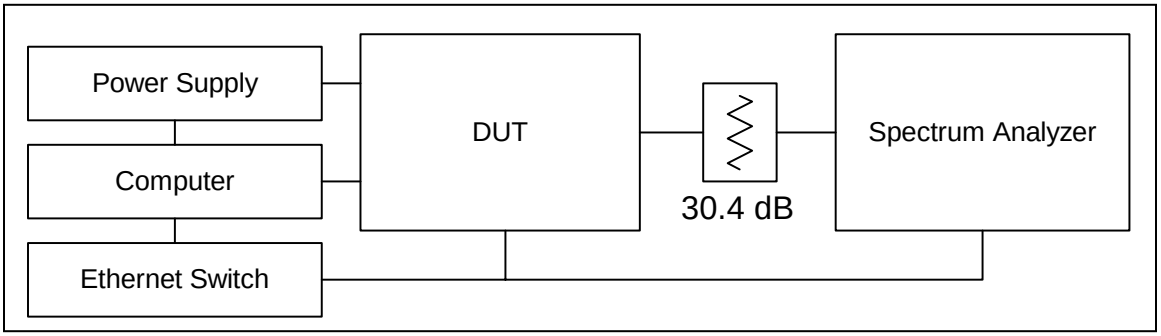
Optional Attenuation at 3 MHz from band edge =
67 + 10*log(P) = 67 + 10*log(5.5) = 74.4 dB
(equates to -37 dBm)

Standard: 47CFR27.53(l)(3)

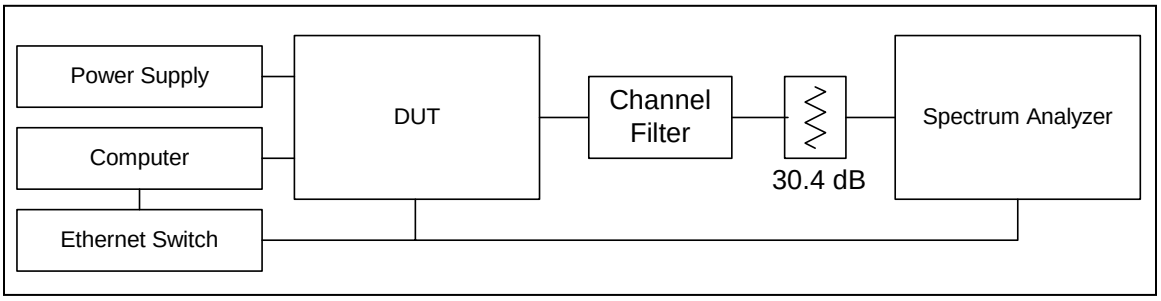
Test Procedure: The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. An RMS detector is used to measure the average power of the transmission. As allowed per the FCC rules, a measurement bandwidth of 1% or greater was used for the test. The emission power is measured with the power measurement function contained in the spectrum analyzer. This function integrates all of the energy contained within the 1 MHz span of spectrum being measured. The resolution bandwidth used for each test is noted in the data measurement table. The video bandwidth is set to 10 times the resolution bandwidth.

The transmitter is enabled in test mode with the attached computer. The RF loss of the attenuators and coax was measured and is included in the spectrum analyzer amplitude offset and is noted in the block diagram below. Measurements are performed at frequencies across the band for each of the modulation formats available (4-, 16-, and 64-QAM) and channel bandwidths (5.5 and 6.0 MHz). Data is collected by incrementing the spectrum analyzer in 1 MHz steps and recording the power in the 1 MHz of spectrum being measured. The test frequencies of 2503, 2593, and 2689 MHz were chosen based on availability of channel filters for the 5.5-watt measurements.

Test Conditions: Test Frequencies: 2503, 2593, 2689 MHz (2 and 5.5 watts, 5.5 and 6.0 MHz bandwidth)
Temperature = 25°C
Supply Voltage = 48.0 VDC Nominal to DUT



2W Modulation Characteristics Test Setup



5.5W Modulation Characteristics Test Setup

Modulation Characteristics Test Results Summary (2W)

Pass modulation characteristics across frequency band and modulation format.

Modulation Characteristics Test Results Summary (5.5W)

Pass modulation characteristics across frequency band and modulation format.

2503 MHz, 6.0 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		4-QAM		
	Channel Bandedge - High (MHz)			2506		2W		
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-46.35	-13	-33.35	Complies
	- 9 MHz bin	2491.5	2491	2492	-46.33	-13	-33.33	Complies
	- 8 MHz bin	2492.5	2492	2493	-46.29	-13	-33.29	Complies
	- 7 MHz bin	2493.5	2493	2494	-46.20	-13	-33.20	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.10	-13	-33.10	Complies
	- 5 MHz bin	2495.5	2495	2496	-43.99	-13	-30.99	Complies
	- 4 MHz bin	2496.5	2496	2497	-40.38	-13	-27.38	Complies
	- 3 MHz bin	2497.5	2497	2498	-37.43	-13	-24.43	Complies
	- 2 MHz bin	2498.5	2498	2499	-34.95	-13	-21.95	Complies
	- 1 MHz bin	2499.5	2499	2500	-23.55	-13	-10.55	Complies
	+ 1 MHz bin	2506.5	2506	2507	-23.05	-13	-10.05	Complies
	+ 2 MHz bin	2507.5	2507	2508	-36.68	-13	-23.68	Complies
	+ 3 MHz bin	2508.5	2508	2509	-39.56	-13	-26.56	Complies
	+ 4 MHz bin	2509.5	2509	2510	-42.17	-13	-29.17	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.69	-13	-31.69	Complies
	+ 6 MHz bin	2511.5	2511	2512	-45.88	-13	-32.88	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.13	-13	-33.13	Complies
	+ 8 MHz bin	2513.5	2513	2514	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2514.5	2514	2515	-46.25	-13	-33.25	Complies
	+ 10 MHz bin	2515.5	2515	2516	-46.27	-13	-33.27	Complies

2503 MHz, 6.0 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		16-QAM		
	Channel Bandedge - High (MHz)			2506				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-46.32	-13	-33.32	Complies
	- 9 MHz bin	2491.5	2491	2492	-46.30	-13	-33.30	Complies
	- 8 MHz bin	2492.5	2492	2493	-46.28	-13	-33.28	Complies
	- 7 MHz bin	2493.5	2493	2494	-46.24	-13	-33.24	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.11	-13	-33.11	Complies
	- 5 MHz bin	2495.5	2495	2496	-43.99	-13	-30.99	Complies
	- 4 MHz bin	2496.5	2496	2497	-40.37	-13	-27.37	Complies
	- 3 MHz bin	2497.5	2497	2498	-37.31	-13	-24.31	Complies
	- 2 MHz bin	2498.5	2498	2499	-34.89	-13	-21.89	Complies
	- 1 MHz bin	2499.5	2499	2500	-23.39	-13	-10.39	Complies
	+ 1 MHz bin	2506.5	2506	2507	-22.96	-13	-9.96	Complies
	+ 2 MHz bin	2507.5	2507	2508	-36.63	-13	-23.63	Complies
	+ 3 MHz bin	2508.5	2508	2509	-39.42	-13	-26.42	Complies
	+ 4 MHz bin	2509.5	2509	2510	-42.15	-13	-29.15	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.67	-13	-31.67	Complies
	+ 6 MHz bin	2511.5	2511	2512	-45.91	-13	-32.91	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.11	-13	-33.11	Complies
	+ 8 MHz bin	2513.5	2513	2514	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2514.5	2514	2515	-46.25	-13	-33.25	Complies
	+ 10 MHz bin	2515.5	2515	2516	-46.29	-13	-33.29	Complies

2503 MHz, 6.0 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		64-QAM		
	Channel Bandedge - High (MHz)			2506				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-46.33	-13	-33.33	Complies
	- 9 MHz bin	2491.5	2491	2492	-46.31	-13	-33.31	Complies
	- 8 MHz bin	2492.5	2492	2493	-46.25	-13	-33.25	Complies
	- 7 MHz bin	2493.5	2493	2494	-46.24	-13	-33.24	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.09	-13	-33.09	Complies
	- 5 MHz bin	2495.5	2495	2496	-43.97	-13	-30.97	Complies
	- 4 MHz bin	2496.5	2496	2497	-40.36	-13	-27.36	Complies
	- 3 MHz bin	2497.5	2497	2498	-37.29	-13	-24.29	Complies
	- 2 MHz bin	2498.5	2498	2499	-34.87	-13	-21.87	Complies
	- 1 MHz bin	2499.5	2499	2500	-23.44	-13	-10.44	Complies
	+ 1 MHz bin	2506.5	2506	2507	-23.27	-13	-10.27	Complies
	+ 2 MHz bin	2507.5	2507	2508	-36.62	-13	-23.62	Complies
	+ 3 MHz bin	2508.5	2508	2509	-39.44	-13	-26.44	Complies
	+ 4 MHz bin	2509.5	2509	2510	-42.10	-13	-29.10	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.64	-13	-31.64	Complies
	+ 6 MHz bin	2511.5	2511	2512	-45.91	-13	-32.91	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.08	-13	-33.08	Complies
	+ 8 MHz bin	2513.5	2513	2514	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2514.5	2514	2515	-46.22	-13	-33.22	Complies
	+ 10 MHz bin	2515.5	2515	2516	-46.27	-13	-33.27	Complies

2503 MHz, 5.5 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		4-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-46.36	-13	-33.36	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-46.36	-13	-33.36	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-46.29	-13	-33.29	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-46.20	-13	-33.20	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.15	-13	-33.15	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-45.23	-13	-32.23	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-41.03	-13	-28.03	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-37.04	-13	-24.04	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.32	-13	-21.32	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-27.56	-13	-14.56	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-24.38	-13	-11.38	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-35.60	-13	-22.60	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-38.50	-13	-25.50	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-42.10	-13	-29.10	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-45.15	-13	-32.15	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-45.97	-13	-32.97	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.10	-13	-33.10	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-46.17	-13	-33.17	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-46.25	-13	-33.25	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-46.25	-13	-33.25	Complies

2503 MHz, 5.5 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		16-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-46.30	-13	-33.30	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-46.26	-13	-33.26	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-46.21	-13	-33.21	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-46.25	-13	-33.25	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.14	-13	-33.14	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-45.22	-13	-32.22	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-40.97	-13	-27.97	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-36.95	-13	-23.95	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.30	-13	-21.30	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-26.70	-13	-13.70	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-25.66	-13	-12.66	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-35.59	-13	-22.59	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-38.58	-13	-25.58	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-42.18	-13	-29.18	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-45.17	-13	-32.17	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-45.94	-13	-32.94	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.13	-13	-33.13	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-46.23	-13	-33.23	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-46.24	-13	-33.24	Complies

2503 MHz, 5.5 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		64-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-46.34	-13	-33.34	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-46.30	-13	-33.30	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-46.27	-13	-33.27	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-46.23	-13	-33.23	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.13	-13	-33.13	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-45.18	-13	-32.18	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-40.93	-13	-27.93	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-37.01	-13	-24.01	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.30	-13	-21.30	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-26.47	-13	-13.47	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-25.80	-13	-12.80	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-35.60	-13	-22.60	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-38.56	-13	-25.56	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-42.12	-13	-29.12	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-45.16	-13	-32.16	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-45.96	-13	-32.96	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.07	-13	-33.07	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-46.23	-13	-33.23	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-46.22	-13	-33.22	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-46.24	-13	-33.24	Complies

2593 MHz, 6.0 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		4-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-46.19	-13	-33.19	Complies
	- 9 MHz bin	2581.5	2581	2582	-46.16	-13	-33.16	Complies
	- 8 MHz bin	2582.5	2582	2583	-46.12	-13	-33.12	Complies
	- 7 MHz bin	2583.5	2583	2584	-46.02	-13	-33.02	Complies
	- 6 MHz bin	2584.5	2584	2585	-45.85	-13	-32.85	Complies
	- 5 MHz bin	2585.5	2585	2586	-42.70	-13	-29.70	Complies
	- 4 MHz bin	2586.5	2586	2587	-38.29	-13	-25.29	Complies
	- 3 MHz bin	2587.5	2587	2588	-35.07	-13	-22.07	Complies
	- 2 MHz bin	2588.5	2588	2589	-32.64	-13	-19.64	Complies
	- 1 MHz bin	2589.5	2589	2590	-22.76	-13	-9.76	Complies
	+ 1 MHz bin	2596.5	2596	2597	-22.86	-13	-9.86	Complies
	+ 2 MHz bin	2597.5	2597	2598	-34.79	-13	-21.79	Complies
	+ 3 MHz bin	2598.5	2598	2599	-37.27	-13	-24.27	Complies
	+ 4 MHz bin	2599.5	2599	2600	-40.17	-13	-27.17	Complies
	+ 5 MHz bin	2600.5	2600	2601	-43.73	-13	-30.73	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.83	-13	-32.83	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.00	-13	-33.00	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.09	-13	-33.09	Complies
	+ 9 MHz bin	2604.5	2604	2605	-46.17	-13	-33.17	Complies
	+ 10 MHz bin	2605.5	2605	2606	-46.19	-13	-33.19	Complies

2593 MHz, 6.0 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		16-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-46.18	-13	-33.18	Complies
	- 9 MHz bin	2581.5	2581	2582	-46.13	-13	-33.13	Complies
	- 8 MHz bin	2582.5	2582	2583	-46.10	-13	-33.10	Complies
	- 7 MHz bin	2583.5	2583	2584	-45.98	-13	-32.98	Complies
	- 6 MHz bin	2584.5	2584	2585	-45.86	-13	-32.86	Complies
	- 5 MHz bin	2585.5	2585	2586	-42.67	-13	-29.67	Complies
	- 4 MHz bin	2586.5	2586	2587	-38.26	-13	-25.26	Complies
	- 3 MHz bin	2587.5	2587	2588	-35.02	-13	-22.02	Complies
	- 2 MHz bin	2588.5	2588	2589	-32.63	-13	-19.63	Complies
	- 1 MHz bin	2589.5	2589	2590	-22.82	-13	-9.82	Complies
	+ 1 MHz bin	2596.5	2596	2597	-23.03	-13	-10.03	Complies
	+ 2 MHz bin	2597.5	2597	2598	-34.73	-13	-21.73	Complies
	+ 3 MHz bin	2598.5	2598	2599	-37.22	-13	-24.22	Complies
	+ 4 MHz bin	2599.5	2599	2600	-40.10	-13	-27.10	Complies
	+ 5 MHz bin	2600.5	2600	2601	-43.71	-13	-30.71	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.86	-13	-32.86	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.01	-13	-33.01	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.09	-13	-33.09	Complies
	+ 9 MHz bin	2604.5	2604	2605	-46.17	-13	-33.17	Complies
	+ 10 MHz bin	2605.5	2605	2606	-46.21	-13	-33.21	Complies

2593 MHz, 6.0 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		64-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-46.15	-13	-33.15	Complies
	- 9 MHz bin	2581.5	2581	2582	-46.16	-13	-33.16	Complies
	- 8 MHz bin	2582.5	2582	2583	-46.10	-13	-33.10	Complies
	- 7 MHz bin	2583.5	2583	2584	-45.99	-13	-32.99	Complies
	- 6 MHz bin	2584.5	2584	2585	-45.85	-13	-32.85	Complies
	- 5 MHz bin	2585.5	2585	2586	-42.67	-13	-29.67	Complies
	- 4 MHz bin	2586.5	2586	2587	-38.25	-13	-25.25	Complies
	- 3 MHz bin	2587.5	2587	2588	-35.00	-13	-22.00	Complies
	- 2 MHz bin	2588.5	2588	2589	-32.62	-13	-19.62	Complies
	- 1 MHz bin	2589.5	2589	2590	-22.74	-13	-9.74	Complies
	+ 1 MHz bin	2596.5	2596	2597	-23.10	-13	-10.10	Complies
	+ 2 MHz bin	2597.5	2597	2598	-34.73	-13	-21.73	Complies
	+ 3 MHz bin	2598.5	2598	2599	-37.13	-13	-24.13	Complies
	+ 4 MHz bin	2599.5	2599	2600	-40.12	-13	-27.12	Complies
	+ 5 MHz bin	2600.5	2600	2601	-43.59	-13	-30.59	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.82	-13	-32.82	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.03	-13	-33.03	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.08	-13	-33.08	Complies
	+ 9 MHz bin	2604.5	2604	2605	-46.14	-13	-33.14	Complies
	+ 10 MHz bin	2605.5	2605	2606	-46.20	-13	-33.20	Complies

2593 MHz, 5.5 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		4-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-46.10	-13	-33.10	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-46.11	-13	-33.11	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-46.09	-13	-33.09	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-45.99	-13	-32.99	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-45.89	-13	-32.89	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-44.43	-13	-31.43	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-38.97	-13	-25.97	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-34.74	-13	-21.74	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-31.96	-13	-18.96	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-25.55	-13	-12.55	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-25.48	-13	-12.48	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-33.74	-13	-20.74	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-36.50	-13	-23.50	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-40.43	-13	-27.43	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-44.72	-13	-31.72	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.85	-13	-32.85	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.03	-13	-33.03	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.08	-13	-33.08	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-46.15	-13	-33.15	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-46.14	-13	-33.14	Complies

2593 MHz, 5.5 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		16-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-46.14	-13	-33.14	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-46.10	-13	-33.10	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-46.08	-13	-33.08	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-46.03	-13	-33.03	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-45.93	-13	-32.93	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-44.40	-13	-31.40	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-39.04	-13	-26.04	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-34.76	-13	-21.76	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-32.01	-13	-19.01	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-25.59	-13	-12.59	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-25.26	-13	-12.26	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-33.78	-13	-20.78	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-36.41	-13	-23.41	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-40.36	-13	-27.36	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-44.72	-13	-31.72	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.83	-13	-32.83	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.06	-13	-33.06	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-46.13	-13	-33.13	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-46.17	-13	-33.17	Complies

2593 MHz, 5.5 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		64-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-46.12	-13	-33.12	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-46.13	-13	-33.13	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-46.08	-13	-33.08	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-46.02	-13	-33.02	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-45.84	-13	-32.84	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-44.40	-13	-31.40	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-38.98	-13	-25.98	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-34.75	-13	-21.75	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-32.00	-13	-19.00	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-25.59	-13	-12.59	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-25.30	-13	-12.30	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-33.75	-13	-20.75	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-36.48	-13	-23.48	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-40.41	-13	-27.41	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-44.74	-13	-31.74	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.83	-13	-32.83	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.04	-13	-33.04	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.13	-13	-33.13	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-46.19	-13	-33.19	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-46.14	-13	-33.14	Complies

2689 MHz, 6.0 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		4-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-46.09	-13	-33.09	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.08	-13	-33.08	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.03	-13	-33.03	Complies
	- 7 MHz bin	2679.5	2679	2680	-45.92	-13	-32.92	Complies
	- 6 MHz bin	2680.5	2680	2681	-45.64	-13	-32.64	Complies
	- 5 MHz bin	2681.5	2681	2682	-40.06	-13	-27.06	Complies
	- 4 MHz bin	2682.5	2682	2683	-34.67	-13	-21.67	Complies
	- 3 MHz bin	2683.5	2683	2684	-31.14	-13	-18.14	Complies
	- 2 MHz bin	2684.5	2684	2685	-28.72	-13	-15.72	Complies
	- 1 MHz bin	2685.5	2685	2686	-22.92	-13	-9.92	Complies
	+ 1 MHz bin	2692.5	2692	2693	-21.73	-13	-8.73	Complies
	+ 2 MHz bin	2693.5	2693	2694	-31.88	-13	-18.88	Complies
	+ 3 MHz bin	2694.5	2694	2695	-33.95	-13	-20.95	Complies
	+ 4 MHz bin	2695.5	2695	2696	-37.07	-13	-24.07	Complies
	+ 5 MHz bin	2696.5	2696	2697	-41.70	-13	-28.70	Complies
	+ 6 MHz bin	2697.5	2697	2698	-45.60	-13	-32.60	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.00	-13	-33.00	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.21	-13	-33.21	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.28	-13	-33.28	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.34	-13	-33.34	Complies

2689 MHz, 6.0 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		16-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-46.09	-13	-33.09	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.04	-13	-33.04	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.02	-13	-33.02	Complies
	- 7 MHz bin	2679.5	2679	2680	-45.94	-13	-32.94	Complies
	- 6 MHz bin	2680.5	2680	2681	-45.61	-13	-32.61	Complies
	- 5 MHz bin	2681.5	2681	2682	-39.95	-13	-26.95	Complies
	- 4 MHz bin	2682.5	2682	2683	-34.57	-13	-21.57	Complies
	- 3 MHz bin	2683.5	2683	2684	-31.08	-13	-18.08	Complies
	- 2 MHz bin	2684.5	2684	2685	-28.64	-13	-15.64	Complies
	- 1 MHz bin	2685.5	2685	2686	-22.08	-13	-9.08	Complies
	+ 1 MHz bin	2692.5	2692	2693	-22.71	-13	-9.71	Complies
	+ 2 MHz bin	2693.5	2693	2694	-31.91	-13	-18.91	Complies
	+ 3 MHz bin	2694.5	2694	2695	-34.01	-13	-21.01	Complies
	+ 4 MHz bin	2695.5	2695	2696	-37.10	-13	-24.10	Complies
	+ 5 MHz bin	2696.5	2696	2697	-41.75	-13	-28.75	Complies
	+ 6 MHz bin	2697.5	2697	2698	-45.64	-13	-32.64	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.02	-13	-33.02	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.17	-13	-33.17	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.28	-13	-33.28	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.32	-13	-33.32	Complies

2689 MHz, 6.0 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		64-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-46.10	-13	-33.10	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.07	-13	-33.07	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.02	-13	-33.02	Complies
	- 7 MHz bin	2679.5	2679	2680	-45.97	-13	-32.97	Complies
	- 6 MHz bin	2680.5	2680	2681	-45.69	-13	-32.69	Complies
	- 5 MHz bin	2681.5	2681	2682	-39.95	-13	-26.95	Complies
	- 4 MHz bin	2682.5	2682	2683	-34.56	-13	-21.56	Complies
	- 3 MHz bin	2683.5	2683	2684	-31.08	-13	-18.08	Complies
	- 2 MHz bin	2684.5	2684	2685	-28.64	-13	-15.64	Complies
	- 1 MHz bin	2685.5	2685	2686	-21.76	-13	-8.76	Complies
	+ 1 MHz bin	2692.5	2692	2693	-22.71	-13	-9.71	Complies
	+ 2 MHz bin	2693.5	2693	2694	-31.87	-13	-18.87	Complies
	+ 3 MHz bin	2694.5	2694	2695	-34.02	-13	-21.02	Complies
	+ 4 MHz bin	2695.5	2695	2696	-37.11	-13	-24.11	Complies
	+ 5 MHz bin	2696.5	2696	2697	-41.71	-13	-28.71	Complies
	+ 6 MHz bin	2697.5	2697	2698	-45.68	-13	-32.68	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.03	-13	-33.03	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.16	-13	-33.16	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.26	-13	-33.26	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.33	-13	-33.33	Complies

2689 MHz, 5.5 MHz, 2W Channel, 4-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		4-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-46.12	-13	-33.12	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-46.05	-13	-33.05	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-45.99	-13	-32.99	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-45.89	-13	-32.89	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-45.78	-13	-32.78	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-43.02	-13	-30.02	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-35.75	-13	-22.75	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-31.20	-13	-18.20	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-28.39	-13	-15.39	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-24.05	-13	-11.05	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-24.99	-13	-11.99	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-31.44	-13	-18.44	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-33.85	-13	-20.85	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-37.98	-13	-24.98	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-43.78	-13	-30.78	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-45.77	-13	-32.77	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.06	-13	-33.06	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.22	-13	-33.22	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.26	-13	-33.26	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-46.32	-13	-33.32	Complies

2689 MHz, 5.5 MHz, 2W Channel, 16-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		16-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-46.08	-13	-33.08	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-46.04	-13	-33.04	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-46.02	-13	-33.02	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-45.94	-13	-32.94	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-45.79	-13	-32.79	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-43.01	-13	-30.01	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-35.70	-13	-22.70	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-31.16	-13	-18.16	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-28.33	-13	-15.33	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-24.10	-13	-11.10	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-24.96	-13	-11.96	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-31.41	-13	-18.41	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-33.85	-13	-20.85	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-38.00	-13	-25.00	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-43.76	-13	-30.76	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-45.78	-13	-32.78	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.05	-13	-33.05	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.20	-13	-33.20	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.27	-13	-33.27	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-46.35	-13	-33.35	Complies

2689 MHz, 5.5 MHz, 2W Channel, 64-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		64-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-46.12	-13	-33.12	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-46.03	-13	-33.03	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-46.01	-13	-33.01	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-45.94	-13	-32.94	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-45.85	-13	-32.85	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-43.02	-13	-30.02	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-35.73	-13	-22.73	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-31.20	-13	-18.20	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-28.34	-13	-15.34	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-24.09	-13	-11.09	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-24.95	-13	-11.95	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-31.40	-13	-18.40	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-33.88	-13	-20.88	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-37.96	-13	-24.96	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-43.78	-13	-30.78	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-45.72	-13	-32.72	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.02	-13	-33.02	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.21	-13	-33.21	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.30	-13	-33.30	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-46.32	-13	-33.32	Complies

2503 MHz, 6.0 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2503		3/21/2006	5W	
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		4-QAM		
	Channel Bandedge - High (MHz)			2506				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-47.15	-37	-10.15	Complies
	- 9 MHz bin	2491.5	2491	2492	-47.10	-37	-10.10	Complies
	- 8 MHz bin	2492.5	2492	2493	-47.09	-37	-10.09	Complies
	- 7 MHz bin	2493.5	2493	2494	-47.12	-37	-10.12	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.92	-37	-9.92	Complies
	- 5 MHz bin	2495.5	2495	2496	-46.03	-37	-9.03	Complies
	- 4 MHz bin	2496.5	2496	2497	-44.39	-37	-7.39	Complies
	- 3 MHz bin	2497.5	2497	2498	-41.30	-13	-28.30	Complies
	- 2 MHz bin	2498.5	2498	2499	-36.51	-13	-23.51	Complies
	- 1 MHz bin	2499.5	2499	2500	-21.33	-13	-8.33	Complies
	+ 1 MHz bin	2506.5	2506	2507	-18.30	-13	-5.30	Complies
	+ 2 MHz bin	2507.5	2507	2508	-31.20	-13	-18.20	Complies
	+ 3 MHz bin	2508.5	2508	2509	-36.03	-13	-23.03	Complies
	+ 4 MHz bin	2509.5	2509	2510	-41.11	-37	-4.11	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.75	-37	-7.75	Complies
	+ 6 MHz bin	2511.5	2511	2512	-46.35	-37	-9.35	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.81	-37	-9.81	Complies
	+ 8 MHz bin	2513.5	2513	2514	-47.02	-37	-10.02	Complies
	+ 9 MHz bin	2514.5	2514	2515	-47.10	-37	-10.10	Complies
	+ 10 MHz bin	2515.5	2515	2516	-47.12	-37	-10.12	Complies

2503 MHz, 6.0 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		16-QAM		
	Channel Bandedge - High (MHz)			2506				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-47.13	-37	-10.13	Complies
	- 9 MHz bin	2491.5	2491	2492	-47.13	-37	-10.13	Complies
	- 8 MHz bin	2492.5	2492	2493	-47.11	-37	-10.11	Complies
	- 7 MHz bin	2493.5	2493	2494	-47.09	-37	-10.09	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.95	-37	-9.95	Complies
	- 5 MHz bin	2495.5	2495	2496	-46.01	-37	-9.01	Complies
	- 4 MHz bin	2496.5	2496	2497	-44.30	-37	-7.30	Complies
	- 3 MHz bin	2497.5	2497	2498	-41.19	-13	-28.19	Complies
	- 2 MHz bin	2498.5	2498	2499	-36.51	-13	-23.51	Complies
	- 1 MHz bin	2499.5	2499	2500	-20.71	-13	-7.71	Complies
	+ 1 MHz bin	2506.5	2506	2507	-18.71	-13	-5.71	Complies
	+ 2 MHz bin	2507.5	2507	2508	-31.12	-13	-18.12	Complies
	+ 3 MHz bin	2508.5	2508	2509	-35.99	-13	-22.99	Complies
	+ 4 MHz bin	2509.5	2509	2510	-41.04	-37	-4.04	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.76	-37	-7.76	Complies
	+ 6 MHz bin	2511.5	2511	2512	-46.29	-37	-9.29	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.85	-37	-9.85	Complies
	+ 8 MHz bin	2513.5	2513	2514	-47.04	-37	-10.04	Complies
	+ 9 MHz bin	2514.5	2514	2515	-47.11	-37	-10.11	Complies
	+ 10 MHz bin	2515.5	2515	2516	-47.13	-37	-10.13	Complies

2503 MHz, 6.0 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500		64-QAM		
	Channel Bandedge - High (MHz)			2506				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2490.5	2490	2491	-47.17	-37	-10.17	Complies
	- 9 MHz bin	2491.5	2491	2492	-47.15	-37	-10.15	Complies
	- 8 MHz bin	2492.5	2492	2493	-47.09	-37	-10.09	Complies
	- 7 MHz bin	2493.5	2493	2494	-47.11	-37	-10.11	Complies
	- 6 MHz bin	2494.5	2494	2495	-46.97	-37	-9.97	Complies
	- 5 MHz bin	2495.5	2495	2496	-46.03	-37	-9.03	Complies
	- 4 MHz bin	2496.5	2496	2497	-44.34	-37	-7.34	Complies
	- 3 MHz bin	2497.5	2497	2498	-41.13	-13	-28.13	Complies
	- 2 MHz bin	2498.5	2498	2499	-36.43	-13	-23.43	Complies
	- 1 MHz bin	2499.5	2499	2500	-20.80	-13	-7.80	Complies
	+ 1 MHz bin	2506.5	2506	2507	-18.76	-13	-5.76	Complies
	+ 2 MHz bin	2507.5	2507	2508	-31.16	-13	-18.16	Complies
	+ 3 MHz bin	2508.5	2508	2509	-36.03	-13	-23.03	Complies
	+ 4 MHz bin	2509.5	2509	2510	-41.10	-37	-4.10	Complies
	+ 5 MHz bin	2510.5	2510	2511	-44.77	-37	-7.77	Complies
	+ 6 MHz bin	2511.5	2511	2512	-46.28	-37	-9.28	Complies
	+ 7 MHz bin	2512.5	2512	2513	-46.82	-37	-9.82	Complies
	+ 8 MHz bin	2513.5	2513	2514	-47.03	-37	-10.03	Complies
	+ 9 MHz bin	2514.5	2514	2515	-47.12	-37	-10.12	Complies
	+ 10 MHz bin	2515.5	2515	2516	-47.12	-37	-10.12	Complies

2503 MHz, 5.5 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		4-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-47.16	-37	-10.16	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-47.12	-37	-10.12	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-47.09	-37	-10.09	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-47.08	-37	-10.08	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.88	-37	-9.88	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-45.88	-37	-8.88	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-43.39	-37	-6.39	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-38.79	-13	-25.79	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.36	-13	-21.36	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-20.03	-13	-7.03	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-17.55	-13	-4.55	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-29.68	-13	-16.68	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-34.24	-13	-21.24	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-40.08	-37	-3.08	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-44.42	-37	-7.42	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-46.13	-37	-9.13	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.85	-37	-9.85	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-47.05	-37	-10.05	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-47.16	-37	-10.16	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-47.19	-37	-10.19	Complies

2503 MHz, 5.5 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		16-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-47.17	-37	-10.17	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-47.14	-37	-10.14	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-47.15	-37	-10.15	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-47.09	-37	-10.09	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.94	-37	-9.94	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-46.07	-37	-9.07	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-43.86	-37	-6.86	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-39.48	-13	-26.48	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.82	-13	-21.82	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-20.27	-13	-7.27	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-17.64	-13	-4.64	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-29.88	-13	-16.88	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-34.44	-13	-21.44	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-40.38	-37	-3.38	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-44.61	-37	-7.61	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-46.25	-37	-9.25	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.88	-37	-9.88	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-47.08	-37	-10.08	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-47.15	-37	-10.15	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-47.15	-37	-10.15	Complies

2503 MHz, 5.5 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2503		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2500.25		64-QAM		
	Channel Bandedge - High (MHz)			2505.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2490.75	2490.25	2491.25	-47.15	-37	-10.15	Complies
	- 9 MHz bin	2491.75	2491.25	2492.25	-47.15	-37	-10.15	Complies
	- 8 MHz bin	2492.75	2492.25	2493.25	-47.11	-37	-10.11	Complies
	- 7 MHz bin	2493.75	2493.25	2494.25	-47.11	-37	-10.11	Complies
	- 6 MHz bin	2494.75	2494.25	2495.25	-46.93	-37	-9.93	Complies
	- 5 MHz bin	2495.75	2495.25	2496.25	-46.12	-37	-9.12	Complies
	- 4 MHz bin	2496.75	2496.25	2497.25	-43.85	-37	-6.85	Complies
	- 3 MHz bin	2497.75	2497.25	2498.25	-39.52	-13	-26.52	Complies
	- 2 MHz bin	2498.75	2498.25	2499.25	-34.84	-13	-21.84	Complies
	- 1 MHz bin	2499.75	2499.25	2500.25	-20.20	-13	-7.20	Complies
	+ 1 MHz bin	2506.25	2505.75	2506.75	-17.76	-13	-4.76	Complies
	+ 2 MHz bin	2507.25	2506.75	2507.75	-29.82	-13	-16.82	Complies
	+ 3 MHz bin	2508.25	2507.75	2508.75	-34.47	-13	-21.47	Complies
	+ 4 MHz bin	2509.25	2508.75	2509.75	-40.39	-37	-3.39	Complies
	+ 5 MHz bin	2510.25	2509.75	2510.75	-44.61	-37	-7.61	Complies
	+ 6 MHz bin	2511.25	2510.75	2511.75	-46.25	-37	-9.25	Complies
	+ 7 MHz bin	2512.25	2511.75	2512.75	-46.87	-37	-9.87	Complies
	+ 8 MHz bin	2513.25	2512.75	2513.75	-47.11	-37	-10.11	Complies
	+ 9 MHz bin	2514.25	2513.75	2514.75	-47.12	-37	-10.12	Complies
	+ 10 MHz bin	2515.25	2514.75	2515.75	-47.16	-37	-10.16	Complies

2593 MHz, 6.0 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		4-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-47.08	-37	-10.08	Complies
	- 9 MHz bin	2581.5	2581	2582	-47.07	-37	-10.07	Complies
	- 8 MHz bin	2582.5	2582	2583	-47.05	-37	-10.05	Complies
	- 7 MHz bin	2583.5	2583	2584	-47.03	-37	-10.03	Complies
	- 6 MHz bin	2584.5	2584	2585	-46.70	-37	-9.70	Complies
	- 5 MHz bin	2585.5	2585	2586	-45.33	-37	-8.33	Complies
	- 4 MHz bin	2586.5	2586	2587	-42.70	-37	-5.70	Complies
	- 3 MHz bin	2587.5	2587	2588	-37.92	-13	-24.92	Complies
	- 2 MHz bin	2588.5	2588	2589	-31.62	-13	-18.62	Complies
	- 1 MHz bin	2589.5	2589	2590	-20.18	-13	-7.18	Complies
	+ 1 MHz bin	2596.5	2596	2597	-18.61	-13	-5.61	Complies
	+ 2 MHz bin	2597.5	2597	2598	-28.00	-13	-15.00	Complies
	+ 3 MHz bin	2598.5	2598	2599	-32.80	-13	-19.80	Complies
	+ 4 MHz bin	2599.5	2599	2600	-38.21	-37	-1.21	Complies
	+ 5 MHz bin	2600.5	2600	2601	-42.81	-37	-5.81	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.35	-37	-8.35	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.46	-37	-9.46	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.88	-37	-9.88	Complies
	+ 9 MHz bin	2604.5	2604	2605	-46.99	-37	-9.99	Complies
	+ 10 MHz bin	2605.5	2605	2606	-47.08	-37	-10.08	Complies

2593 MHz, 6.0 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		16-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-47.11	-37	-10.11	Complies
	- 9 MHz bin	2581.5	2581	2582	-47.12	-37	-10.12	Complies
	- 8 MHz bin	2582.5	2582	2583	-47.06	-37	-10.06	Complies
	- 7 MHz bin	2583.5	2583	2584	-46.99	-37	-9.99	Complies
	- 6 MHz bin	2584.5	2584	2585	-46.76	-37	-9.76	Complies
	- 5 MHz bin	2585.5	2585	2586	-45.47	-37	-8.47	Complies
	- 4 MHz bin	2586.5	2586	2587	-43.13	-37	-6.13	Complies
	- 3 MHz bin	2587.5	2587	2588	-38.36	-13	-25.36	Complies
	- 2 MHz bin	2588.5	2588	2589	-32.22	-13	-19.22	Complies
	- 1 MHz bin	2589.5	2589	2590	-20.36	-13	-7.36	Complies
	+ 1 MHz bin	2596.5	2596	2597	-18.93	-13	-5.93	Complies
	+ 2 MHz bin	2597.5	2597	2598	-28.37	-13	-15.37	Complies
	+ 3 MHz bin	2598.5	2598	2599	-33.13	-13	-20.13	Complies
	+ 4 MHz bin	2599.5	2599	2600	-38.52	-37	-1.52	Complies
	+ 5 MHz bin	2600.5	2600	2601	-43.05	-37	-6.05	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.48	-37	-8.48	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.50	-37	-9.50	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.88	-37	-9.88	Complies
	+ 9 MHz bin	2604.5	2604	2605	-47.06	-37	-10.06	Complies
	+ 10 MHz bin	2605.5	2605	2606	-47.08	-37	-10.08	Complies

2593 MHz, 6.0 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590		64-QAM		
	Channel Bandedge - High (MHz)			2596				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2580.5	2580	2581	-47.11	-37	-10.11	Complies
	- 9 MHz bin	2581.5	2581	2582	-47.03	-37	-10.03	Complies
	- 8 MHz bin	2582.5	2582	2583	-47.07	-37	-10.07	Complies
	- 7 MHz bin	2583.5	2583	2584	-47.00	-37	-10.00	Complies
	- 6 MHz bin	2584.5	2584	2585	-46.78	-37	-9.78	Complies
	- 5 MHz bin	2585.5	2585	2586	-45.50	-37	-8.50	Complies
	- 4 MHz bin	2586.5	2586	2587	-43.12	-37	-6.12	Complies
	- 3 MHz bin	2587.5	2587	2588	-38.58	-13	-25.58	Complies
	- 2 MHz bin	2588.5	2588	2589	-32.31	-13	-19.31	Complies
	- 1 MHz bin	2589.5	2589	2590	-20.42	-13	-7.42	Complies
	+ 1 MHz bin	2596.5	2596	2597	-19.02	-13	-6.02	Complies
	+ 2 MHz bin	2597.5	2597	2598	-28.49	-13	-15.49	Complies
	+ 3 MHz bin	2598.5	2598	2599	-33.25	-13	-20.25	Complies
	+ 4 MHz bin	2599.5	2599	2600	-38.62	-37	-1.62	Complies
	+ 5 MHz bin	2600.5	2600	2601	-43.07	-37	-6.07	Complies
	+ 6 MHz bin	2601.5	2601	2602	-45.57	-37	-8.57	Complies
	+ 7 MHz bin	2602.5	2602	2603	-46.51	-37	-9.51	Complies
	+ 8 MHz bin	2603.5	2603	2604	-46.88	-37	-9.88	Complies
	+ 9 MHz bin	2604.5	2604	2605	-47.03	-37	-10.03	Complies
	+ 10 MHz bin	2605.5	2605	2606	-47.08	-37	-10.08	Complies

2593 MHz, 5.5 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		4-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-47.18	-37	-10.18	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-47.09	-37	-10.09	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-47.06	-37	-10.06	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-47.03	-37	-10.03	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-46.67	-37	-9.67	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-45.16	-37	-8.16	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-41.64	-37	-4.64	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-35.67	-13	-22.67	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-29.38	-13	-16.38	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-17.81	-13	-4.81	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-16.89	-13	-3.89	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-26.75	-13	-13.75	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-31.07	-13	-18.07	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-37.25	-37	-0.25	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-42.45	-37	-5.45	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.26	-37	-8.26	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.50	-37	-9.50	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.93	-37	-9.93	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-47.07	-37	-10.07	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-47.16	-37	-10.16	Complies

2593 MHz, 5.5 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		16-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-47.14	-37	-10.14	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-47.12	-37	-10.12	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-47.05	-37	-10.05	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-47.01	-37	-10.01	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-46.66	-37	-9.66	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-45.26	-37	-8.26	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-41.84	-37	-4.84	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-35.95	-13	-22.95	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-29.63	-13	-16.63	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-18.31	-13	-5.31	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-16.74	-13	-3.74	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-26.91	-13	-13.91	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-31.28	-13	-18.28	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-37.35	-37	-0.35	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-42.48	-37	-5.48	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.31	-37	-8.31	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.52	-37	-9.52	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.97	-37	-9.97	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-47.06	-37	-10.06	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-47.11	-37	-10.11	Complies

2593 MHz, 5.5 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2593		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2590.25		64-QAM		
	Channel Bandedge - High (MHz)			2595.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2580.75	2580.25	2581.25	-47.11	-37	-10.11	Complies
	- 9 MHz bin	2581.75	2581.25	2582.25	-47.08	-37	-10.08	Complies
	- 8 MHz bin	2582.75	2582.25	2583.25	-47.07	-37	-10.07	Complies
	- 7 MHz bin	2583.75	2583.25	2584.25	-47.01	-37	-10.01	Complies
	- 6 MHz bin	2584.75	2584.25	2585.25	-46.69	-37	-9.69	Complies
	- 5 MHz bin	2585.75	2585.25	2586.25	-45.34	-37	-8.34	Complies
	- 4 MHz bin	2586.75	2586.25	2587.25	-41.90	-37	-4.90	Complies
	- 3 MHz bin	2587.75	2587.25	2588.25	-36.08	-13	-23.08	Complies
	- 2 MHz bin	2588.75	2588.25	2589.25	-29.73	-13	-16.73	Complies
	- 1 MHz bin	2589.75	2589.25	2590.25	-18.26	-13	-5.26	Complies
	+ 1 MHz bin	2596.25	2595.75	2596.75	-16.90	-13	-3.90	Complies
	+ 2 MHz bin	2597.25	2596.75	2597.75	-26.98	-13	-13.98	Complies
	+ 3 MHz bin	2598.25	2597.75	2598.75	-31.24	-13	-18.24	Complies
	+ 4 MHz bin	2599.25	2598.75	2599.75	-37.41	-37	-0.41	Complies
	+ 5 MHz bin	2600.25	2599.75	2600.75	-42.48	-37	-5.48	Complies
	+ 6 MHz bin	2601.25	2600.75	2601.75	-45.27	-37	-8.27	Complies
	+ 7 MHz bin	2602.25	2601.75	2602.75	-46.52	-37	-9.52	Complies
	+ 8 MHz bin	2603.25	2602.75	2603.75	-46.92	-37	-9.92	Complies
	+ 9 MHz bin	2604.25	2603.75	2604.75	-47.03	-37	-10.03	Complies
	+ 10 MHz bin	2605.25	2604.75	2605.75	-47.10	-37	-10.10	Complies

2689 MHz, 6.0 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		4-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-46.99	-37	-9.99	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.93	-37	-9.93	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.90	-37	-9.90	Complies
	- 7 MHz bin	2679.5	2679	2680	-46.85	-37	-9.85	Complies
	- 6 MHz bin	2680.5	2680	2681	-46.40	-37	-9.40	Complies
	- 5 MHz bin	2681.5	2681	2682	-44.61	-37	-7.61	Complies
	- 4 MHz bin	2682.5	2682	2683	-41.32	-37	-4.32	Complies
	- 3 MHz bin	2683.5	2683	2684	-36.15	-13	-23.15	Complies
	- 2 MHz bin	2684.5	2684	2685	-30.65	-13	-17.65	Complies
	- 1 MHz bin	2685.5	2685	2686	-17.54	-13	-4.54	Complies
	+ 1 MHz bin	2692.5	2692	2693	-16.07	-13	-3.07	Complies
	+ 2 MHz bin	2693.5	2693	2694	-29.01	-13	-16.01	Complies
	+ 3 MHz bin	2694.5	2694	2695	-33.44	-13	-20.44	Complies
	+ 4 MHz bin	2695.5	2695	2696	-38.38	-37	-1.38	Complies
	+ 5 MHz bin	2696.5	2696	2697	-42.31	-37	-5.31	Complies
	+ 6 MHz bin	2697.5	2697	2698	-44.85	-37	-7.85	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.18	-37	-9.18	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.66	-37	-9.66	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.89	-37	-9.89	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.95	-37	-9.95	Complies

2689 MHz, 6.0 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		16-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-46.98	-37	-9.98	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.94	-37	-9.94	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.90	-37	-9.90	Complies
	- 7 MHz bin	2679.5	2679	2680	-46.85	-37	-9.85	Complies
	- 6 MHz bin	2680.5	2680	2681	-46.47	-37	-9.47	Complies
	- 5 MHz bin	2681.5	2681	2682	-44.84	-37	-7.84	Complies
	- 4 MHz bin	2682.5	2682	2683	-41.72	-37	-4.72	Complies
	- 3 MHz bin	2683.5	2683	2684	-36.88	-13	-23.88	Complies
	- 2 MHz bin	2684.5	2684	2685	-31.41	-13	-18.41	Complies
	- 1 MHz bin	2685.5	2685	2686	-17.91	-13	-4.91	Complies
	+ 1 MHz bin	2692.5	2692	2693	-16.76	-13	-3.76	Complies
	+ 2 MHz bin	2693.5	2693	2694	-29.55	-13	-16.55	Complies
	+ 3 MHz bin	2694.5	2694	2695	-33.94	-13	-20.94	Complies
	+ 4 MHz bin	2695.5	2695	2696	-38.73	-37	-1.73	Complies
	+ 5 MHz bin	2696.5	2696	2697	-42.58	-37	-5.58	Complies
	+ 6 MHz bin	2697.5	2697	2698	-45.01	-37	-8.01	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.22	-37	-9.22	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.71	-37	-9.71	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.95	-37	-9.95	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.96	-37	-9.96	Complies

2689 MHz, 6.0 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			6		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686		64-QAM		
	Channel Bandedge - High (MHz)			2692				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
62	- 10 MHz bin	2676.5	2676	2677	-47.00	-37	-10.00	Complies
	- 9 MHz bin	2677.5	2677	2678	-46.95	-37	-9.95	Complies
	- 8 MHz bin	2678.5	2678	2679	-46.93	-37	-9.93	Complies
	- 7 MHz bin	2679.5	2679	2680	-46.86	-37	-9.86	Complies
	- 6 MHz bin	2680.5	2680	2681	-46.46	-37	-9.46	Complies
	- 5 MHz bin	2681.5	2681	2682	-44.83	-37	-7.83	Complies
	- 4 MHz bin	2682.5	2682	2683	-41.74	-37	-4.74	Complies
	- 3 MHz bin	2683.5	2683	2684	-36.96	-13	-23.96	Complies
	- 2 MHz bin	2684.5	2684	2685	-31.52	-13	-18.52	Complies
	- 1 MHz bin	2685.5	2685	2686	-17.98	-13	-4.98	Complies
	+ 1 MHz bin	2692.5	2692	2693	-16.68	-13	-3.68	Complies
	+ 2 MHz bin	2693.5	2693	2694	-29.67	-13	-16.67	Complies
	+ 3 MHz bin	2694.5	2694	2695	-33.94	-13	-20.94	Complies
	+ 4 MHz bin	2695.5	2695	2696	-38.83	-37	-1.83	Complies
	+ 5 MHz bin	2696.5	2696	2697	-42.61	-37	-5.61	Complies
	+ 6 MHz bin	2697.5	2697	2698	-45.01	-37	-8.01	Complies
	+ 7 MHz bin	2698.5	2698	2699	-46.20	-37	-9.20	Complies
	+ 8 MHz bin	2699.5	2699	2700	-46.71	-37	-9.71	Complies
	+ 9 MHz bin	2700.5	2700	2701	-46.91	-37	-9.91	Complies
	+ 10 MHz bin	2701.5	2701	2702	-46.95	-37	-9.95	Complies

2689 MHz, 5.5 MHz, 5.5W Channel, 4-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		4-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-47.03	-37	-10.03	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-47.00	-37	-10.00	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-46.95	-37	-9.95	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-46.84	-37	-9.84	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-46.27	-37	-9.27	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-44.26	-37	-7.26	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-40.11	-37	-3.11	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-34.24	-13	-21.24	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-29.02	-13	-16.02	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-15.80	-13	-2.80	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-13.20	-13	-0.20	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-27.82	-13	-14.82	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-31.52	-13	-18.52	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-37.04	-37	-0.04	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-41.69	-37	-4.69	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-44.55	-37	-7.55	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.12	-37	-9.12	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.69	-37	-9.69	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.88	-37	-9.88	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-47.00	-37	-10.00	Complies

2689 MHz, 5.5 MHz, 5.5W Channel, 16-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		16-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-47.00	-37	-10.00	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-46.95	-37	-9.95	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-46.93	-37	-9.93	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-46.84	-37	-9.84	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-46.31	-37	-9.31	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-44.31	-37	-7.31	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-40.18	-37	-3.18	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-34.31	-13	-21.31	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-28.97	-13	-15.97	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-15.62	-13	-2.62	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-13.47	-13	-0.47	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-28.04	-13	-15.04	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-31.86	-13	-18.86	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-37.35	-37	-0.35	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-41.79	-37	-4.79	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-44.68	-37	-7.68	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.14	-37	-9.14	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.71	-37	-9.71	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.97	-37	-9.97	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-46.99	-37	-9.99	Complies

2689 MHz, 5.5 MHz, 5.5W Channel, 64-QAM

	Channel Center Freq (MHz)			2689		3/21/2006		
	Channel BW (MHz)			5.5		48 VDC Nom		
	Channel Bandedge - Low (MHz)			2686.25		64-QAM		
	Channel Bandedge - High (MHz)			2691.75				
Resolution Bandwidth (kHz)		1 MHz Band Center Freq (MHz)	1 MHz Band Low Freq (MHz)	1 MHz Band High Freq (MHz)	Emission Power in 1 MHz BW (dBm)	Spec (dBm/MHz)	Margin (dB)	Result
56	- 10 MHz bin	2676.75	2676.25	2677.25	-46.98	-37	-9.98	Complies
	- 9 MHz bin	2677.75	2677.25	2678.25	-46.96	-37	-9.96	Complies
	- 8 MHz bin	2678.75	2678.25	2679.25	-46.97	-37	-9.97	Complies
	- 7 MHz bin	2679.75	2679.25	2680.25	-46.84	-37	-9.84	Complies
	- 6 MHz bin	2680.75	2680.25	2681.25	-46.35	-37	-9.35	Complies
	- 5 MHz bin	2681.75	2681.25	2682.25	-44.45	-37	-7.45	Complies
	- 4 MHz bin	2682.75	2682.25	2683.25	-40.45	-37	-3.45	Complies
	- 3 MHz bin	2683.75	2683.25	2684.25	-34.67	-13	-21.67	Complies
	- 2 MHz bin	2684.75	2684.25	2685.25	-29.37	-13	-16.37	Complies
	- 1 MHz bin	2685.75	2685.25	2686.25	-16.01	-13	-3.01	Complies
	+ 1 MHz bin	2692.25	2691.75	2692.75	-13.52	-13	-0.52	Complies
	+ 2 MHz bin	2693.25	2692.75	2693.75	-28.38	-13	-15.38	Complies
	+ 3 MHz bin	2694.25	2693.75	2694.75	-32.01	-13	-19.01	Complies
	+ 4 MHz bin	2695.25	2694.75	2695.75	-37.52	-37	-0.52	Complies
	+ 5 MHz bin	2696.25	2695.75	2696.75	-41.94	-37	-4.94	Complies
	+ 6 MHz bin	2697.25	2696.75	2697.75	-44.76	-37	-7.76	Complies
	+ 7 MHz bin	2698.25	2697.75	2698.75	-46.18	-37	-9.18	Complies
	+ 8 MHz bin	2699.25	2698.75	2699.75	-46.74	-37	-9.74	Complies
	+ 9 MHz bin	2700.25	2699.75	2700.75	-46.92	-37	-9.92	Complies
	+ 10 MHz bin	2701.25	2700.75	2701.75	-46.98	-37	-9.98	Complies

Unwanted Emissions (Industry Canada)

IC Rules: RSS-193, section 6.3(c)(i)
SRSP-302.5, section 5.5

IC Requirement: In any 100 kHz bandwidth, the minimum attenuation of the emission spectral density that is relative to the inband spectral density, found outside the sub-band, shall be: (a) 25 dB at the sub-band edge, 40 dB at 250 kHz from the sub-band edge, 60 dB at 3MHz from the sub-band edge, and linearly interpolated in between; (b) 60 dB over the rest of the out-of-band domain.

Test Procedure: The measurement of the emission mask for compliance to the RSS-193 "Wideband Digital Modulation – Emission Mask C" was performed under the guidance of "The Measurement of Power Spectral Density for Industry Canada Radio Standard Specification Compliance", prepared by, Brian Kasper, Certification and Engineering Bureau, Industry Canada. A copy of this document can be found at: http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00032e.html

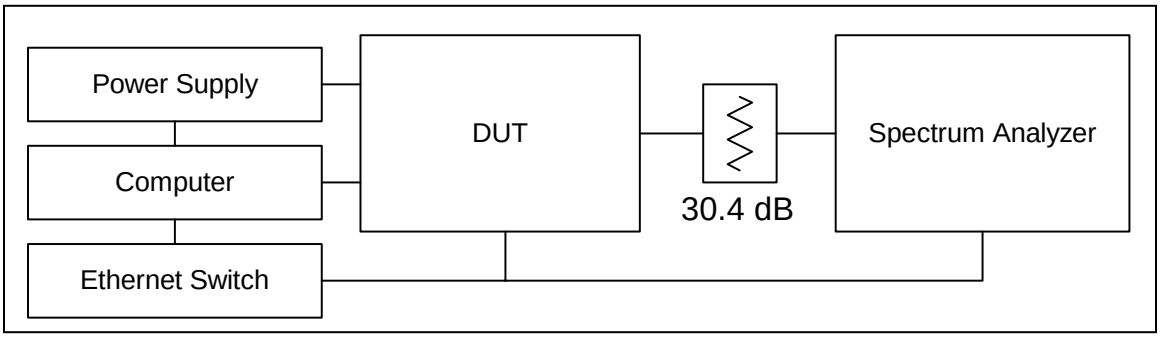
The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. The spectrum analyzer is configured with the following settings:

RF Span = 100 kHz
Resolution BW = 100 kHz
Video BW = 1 MHz
Sweep = 50 msec
Detector = Sample
RF Path Attenuation = 30.4 dB

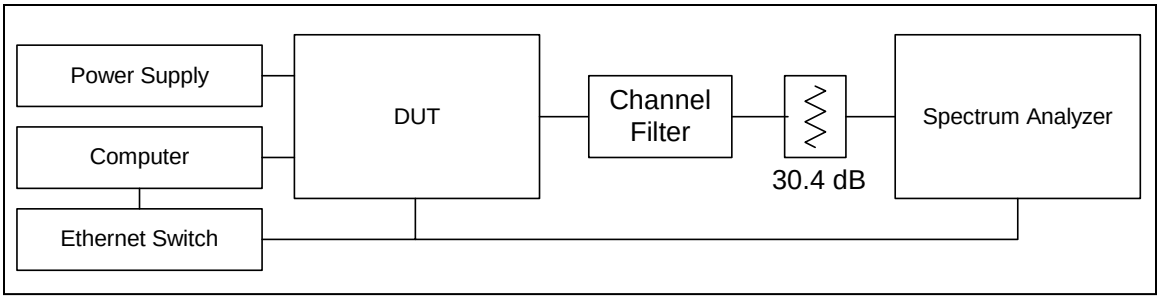
The transmitter is enabled in test mode with the attached computer and the power adjusted to 33 dBm +0/-1 dB and 37 dBm +0/-1 dB.

Test Conditions: Frequencies = 2503, 2593, and 2689 MHz,
(5.5 and 6.0 MHz Bandwidth)
Temperature = 25°C
Supply Voltage = 48 VDC nominal

Unwanted Emissions (Cont'd)



2W Unwanted Emissions Test Setup

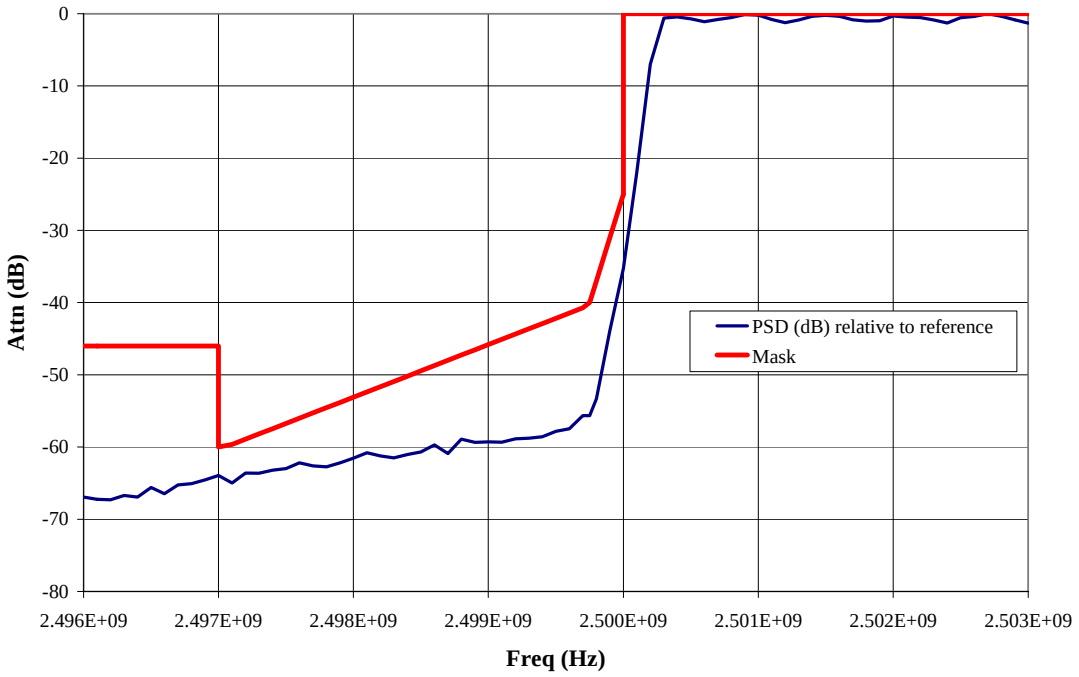


5.5W Unwanted Emissions Test Setup

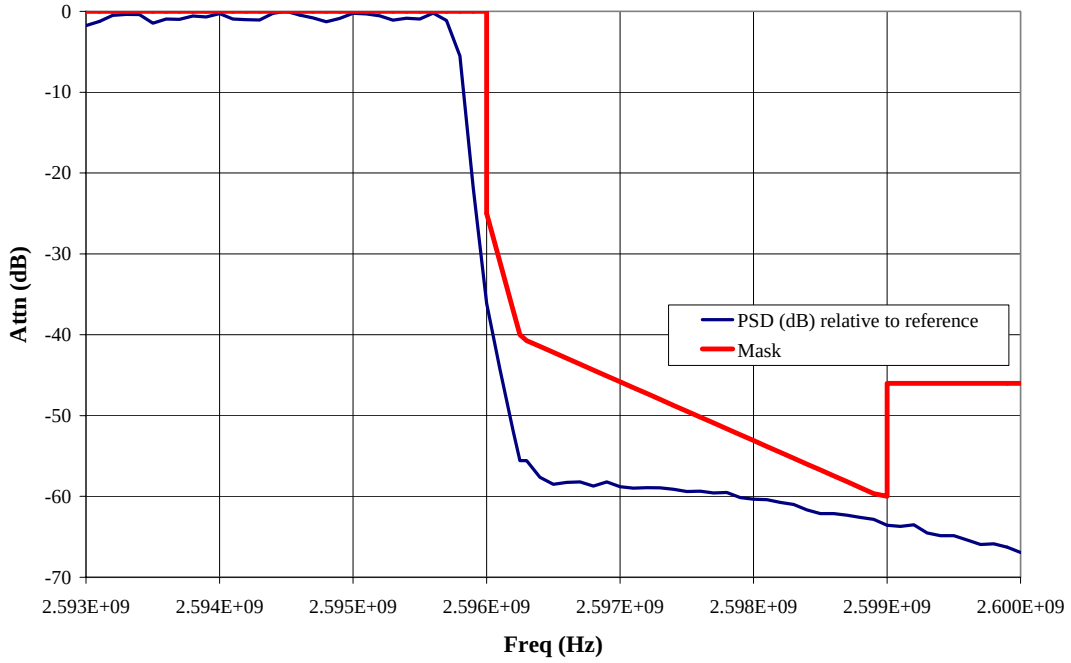
2W Unwanted Emissions Test Results

4QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
4-QAM



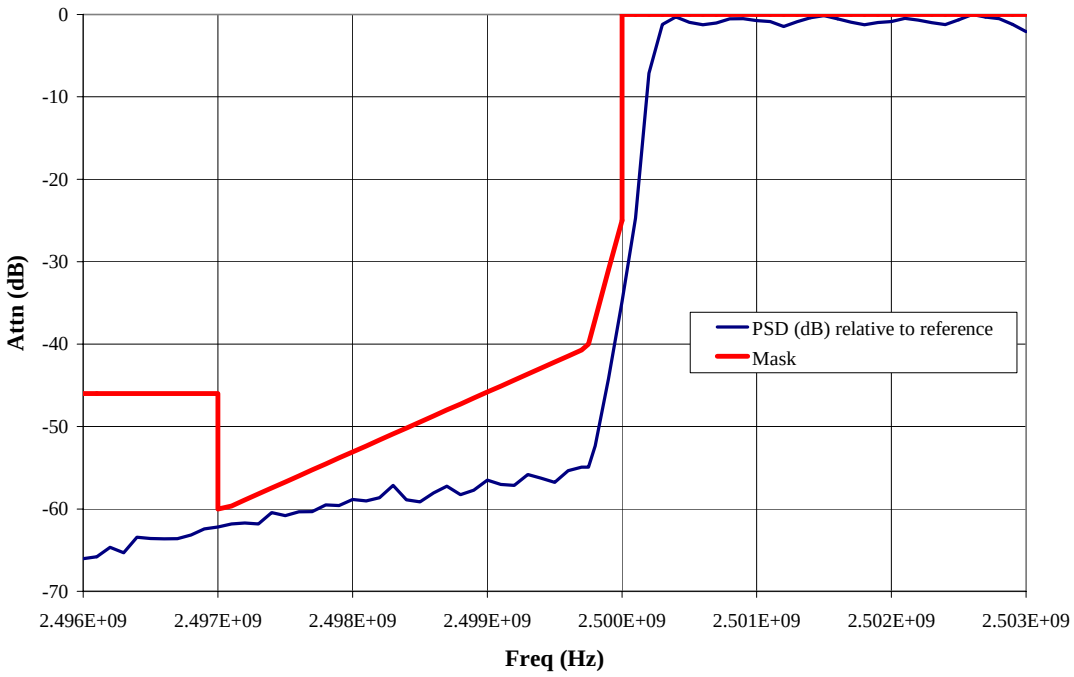
Modulation Mask at 2596 MHz band edge
4-QAM



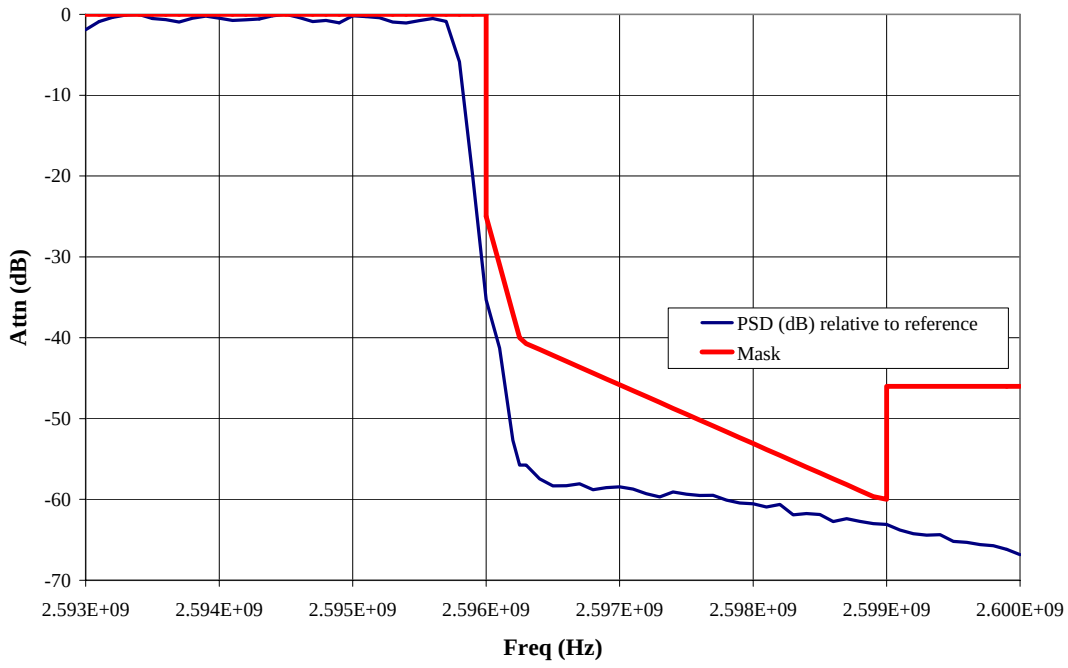
2W Unwanted Emissions Results (Cont'd)

16 QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
16-QAM



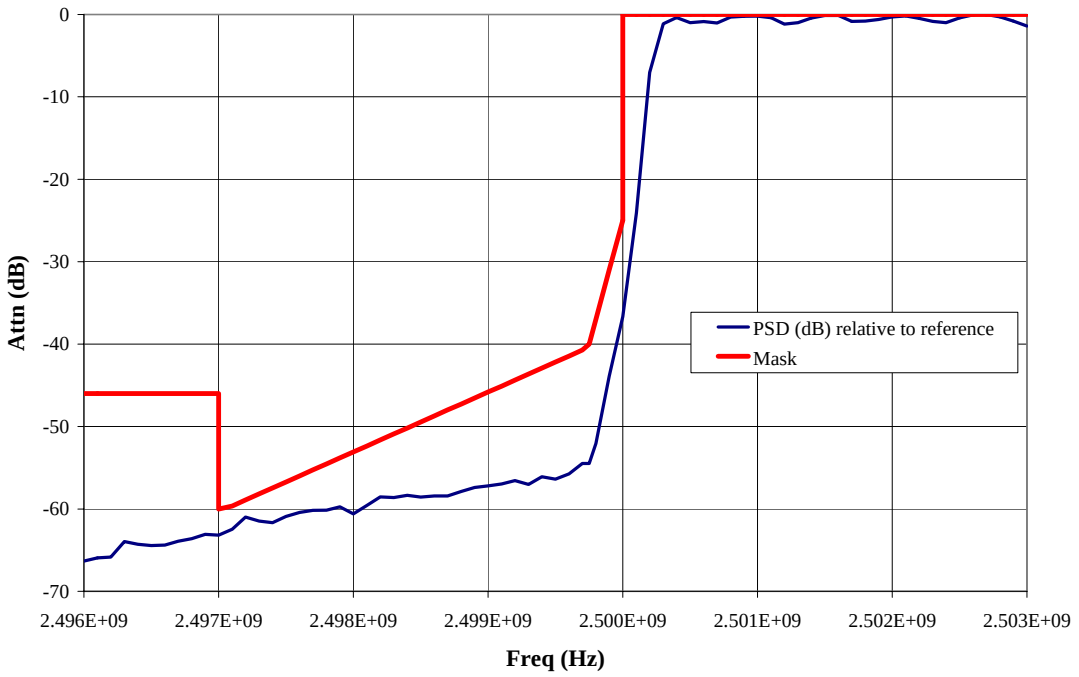
Modulation Mask at 2596 MHz band edge
16-QAM



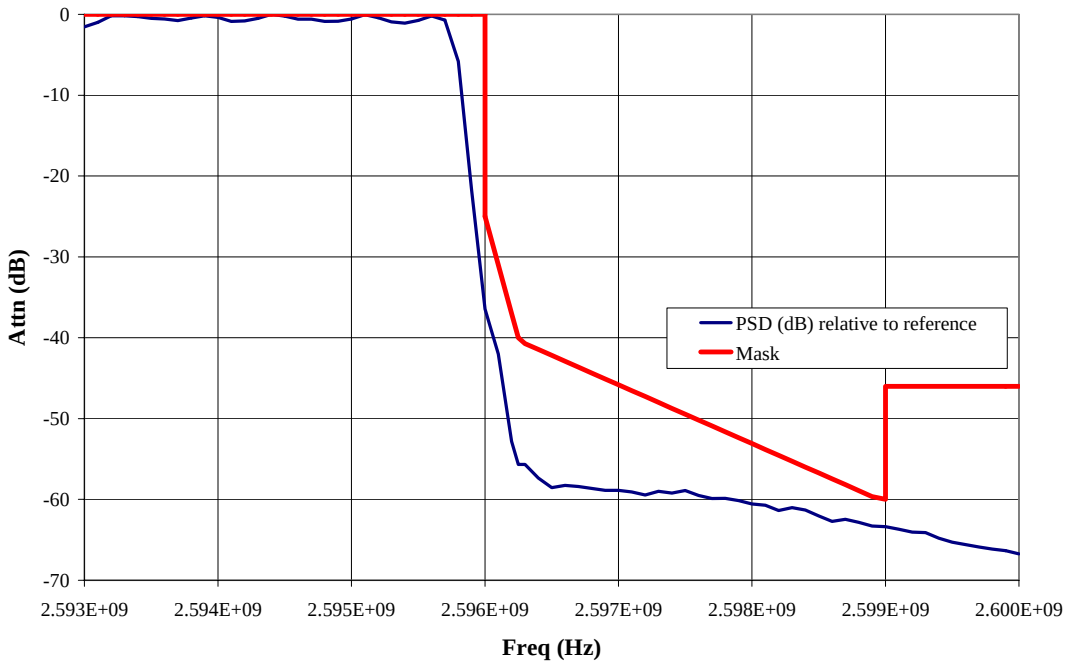
2W Unwanted Emissions Results (Cont'd)

64 QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
64-QAM



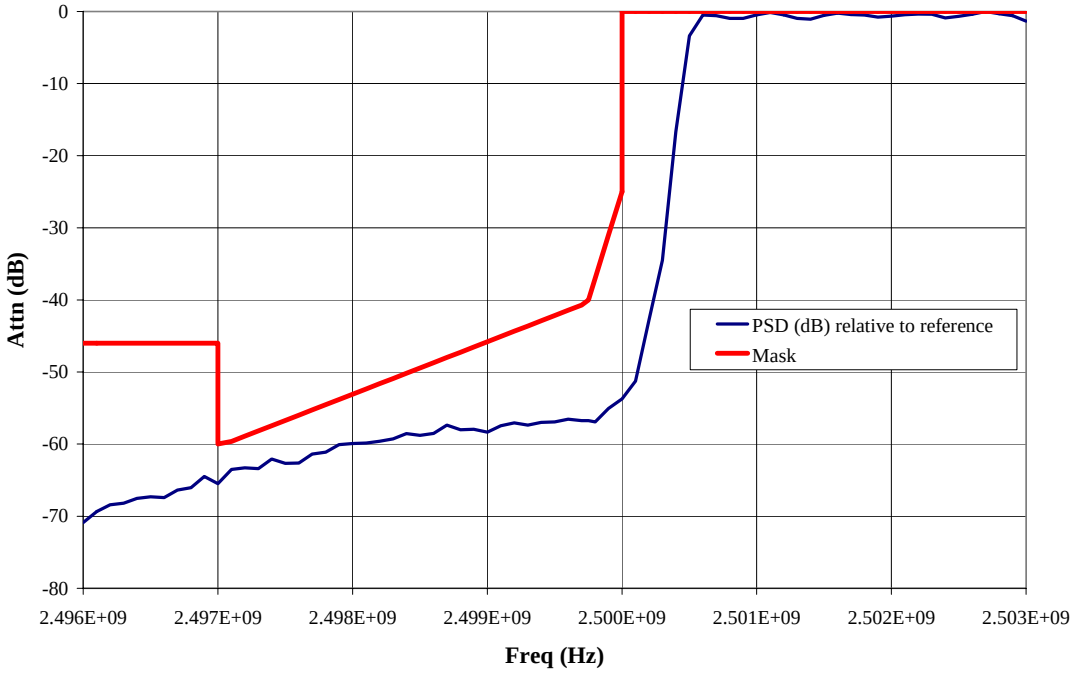
Modulation Mask at 2596 MHz band edge
64-QAM



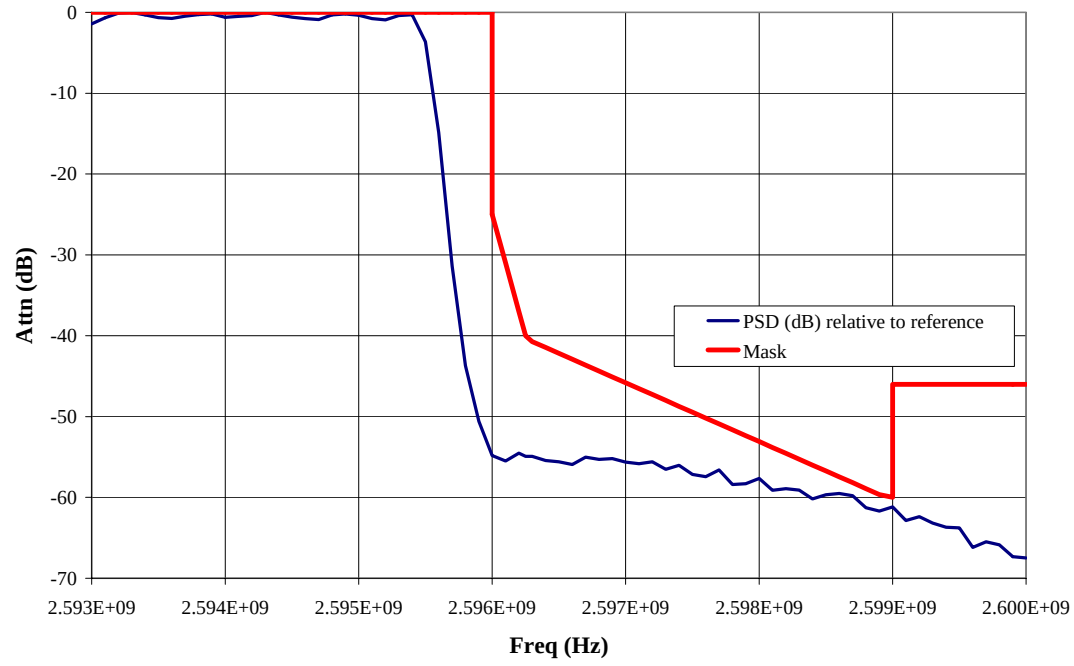
2W Unwanted Emissions Results (Cont'd)

4 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
4-QAM



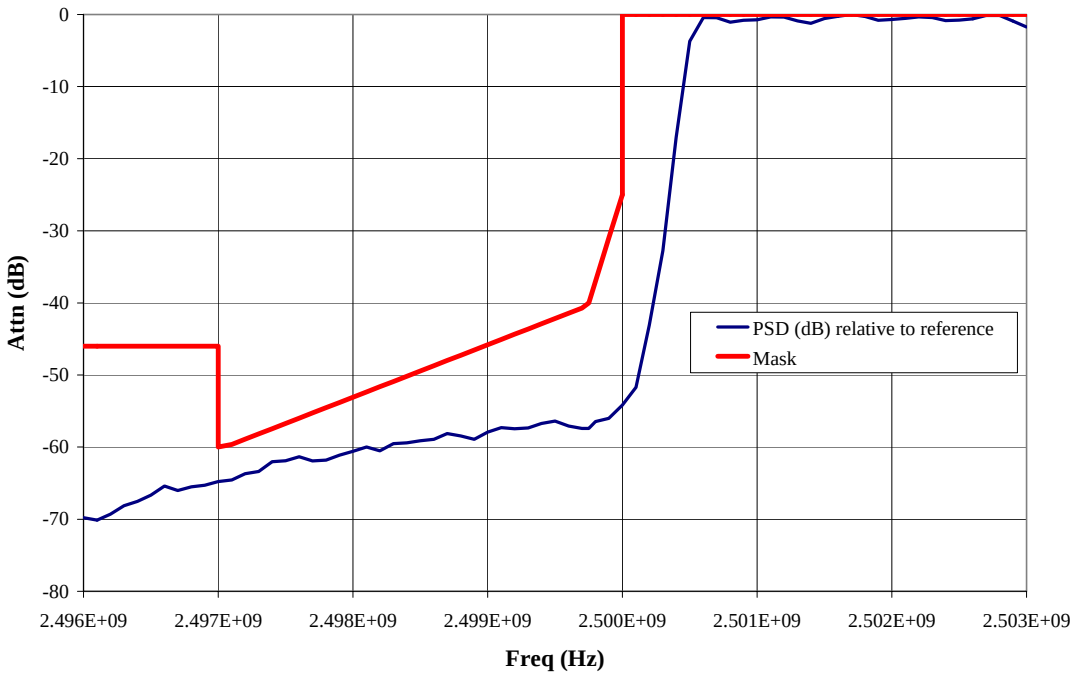
Modulation Mask at 2596 MHz band edge
4-QAM



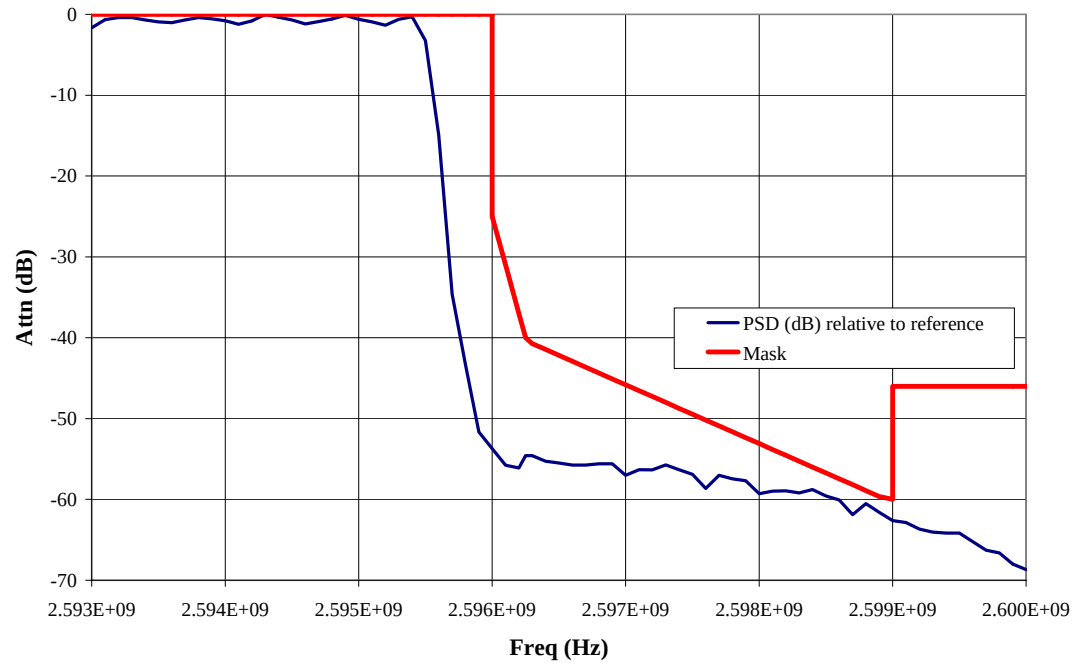
2W Unwanted Emissions Results (Cont'd)

16 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
16-QAM



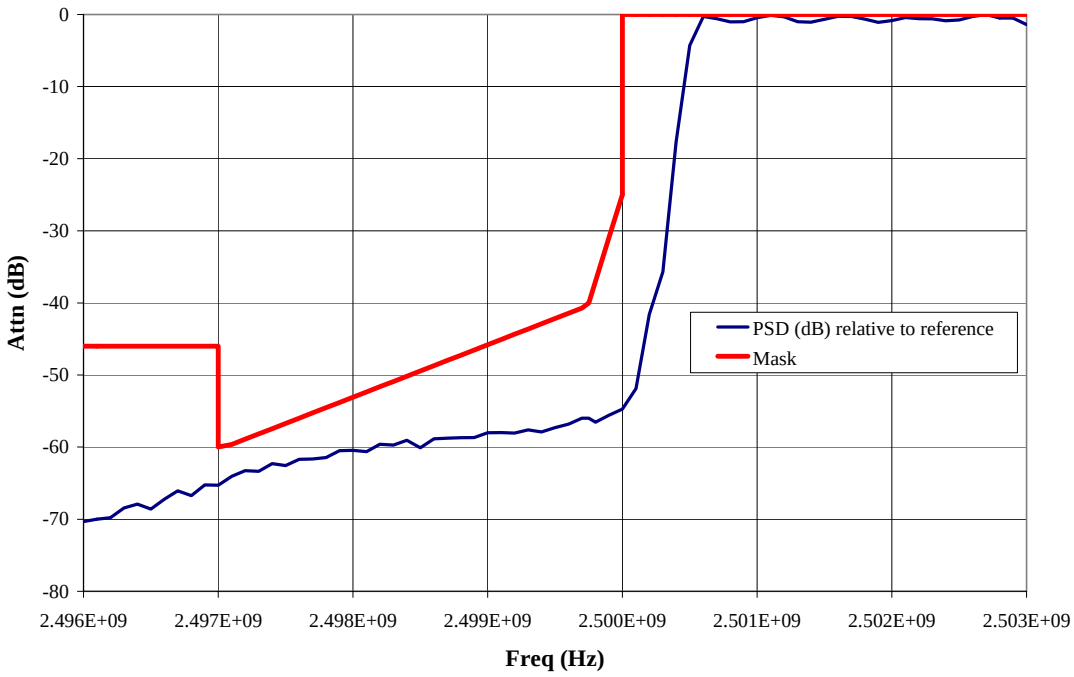
Modulation Mask at 2596 MHz band edge
16-QAM



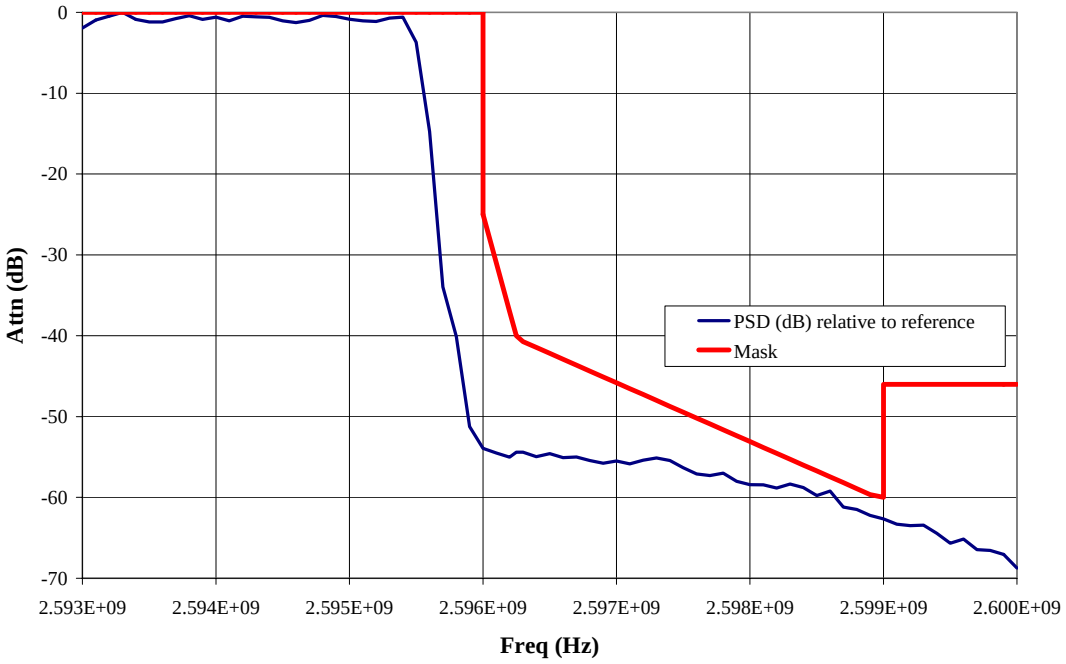
2W Unwanted Emissions Results (Cont'd)

64 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
64-QAM



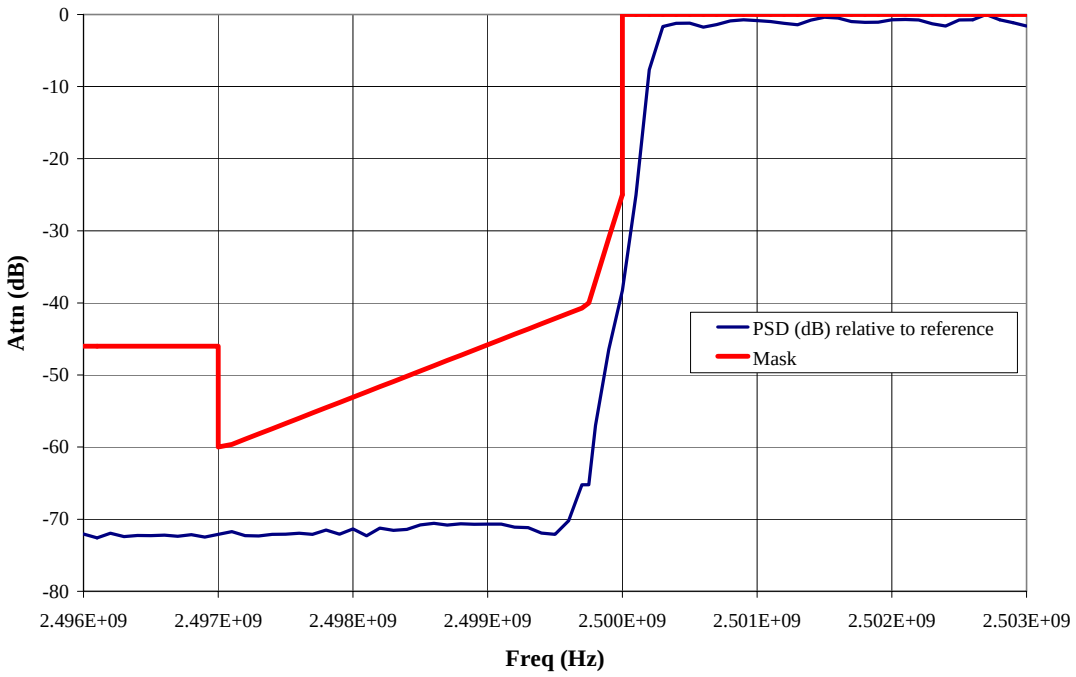
Modulation Mask at 2596 MHz band edge
64-QAM



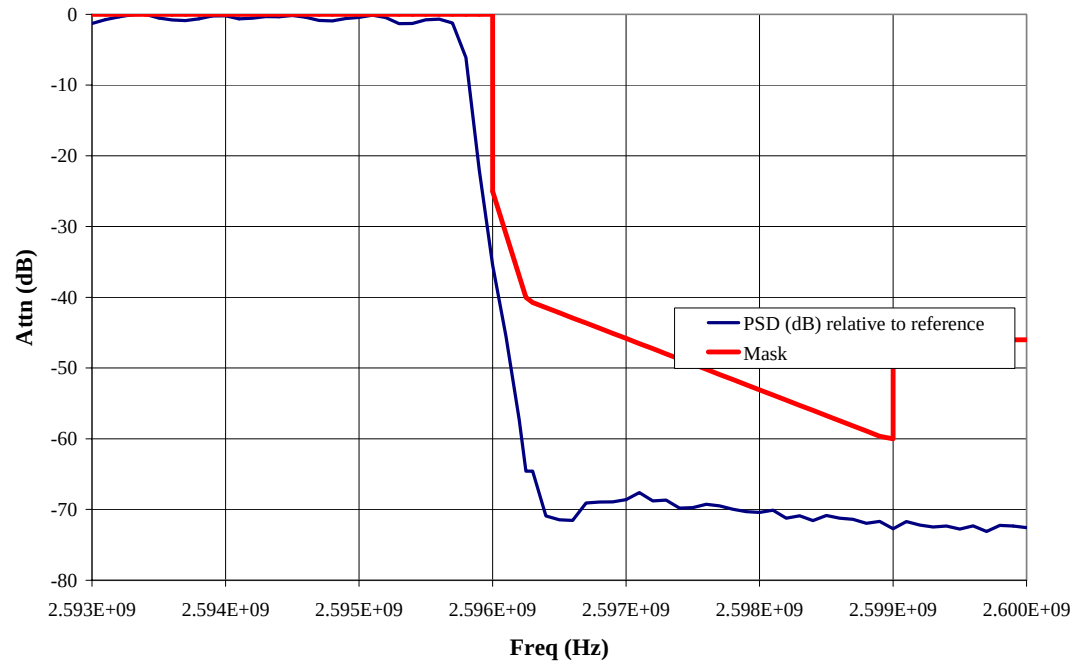
5.5W Unwanted Emissions Results (Cont'd)

4 QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
4-QAM



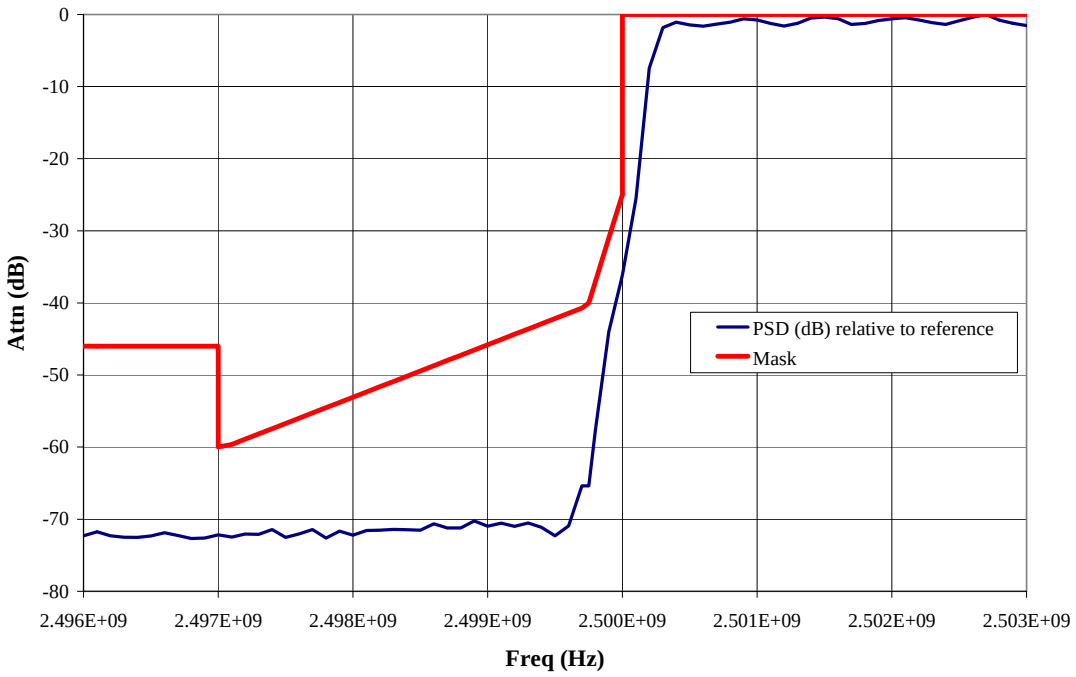
Modulation Mask at 2596 MHz band edge
4-QAM



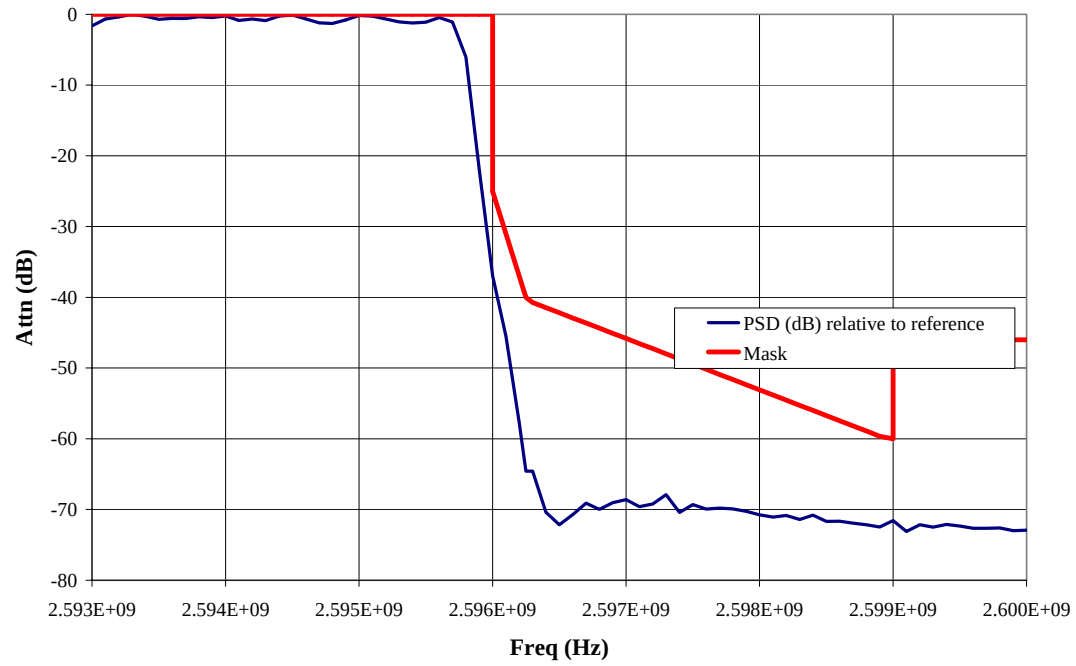
5.5W Unwanted Emissions Results (Cont'd)

16 QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
16-QAM



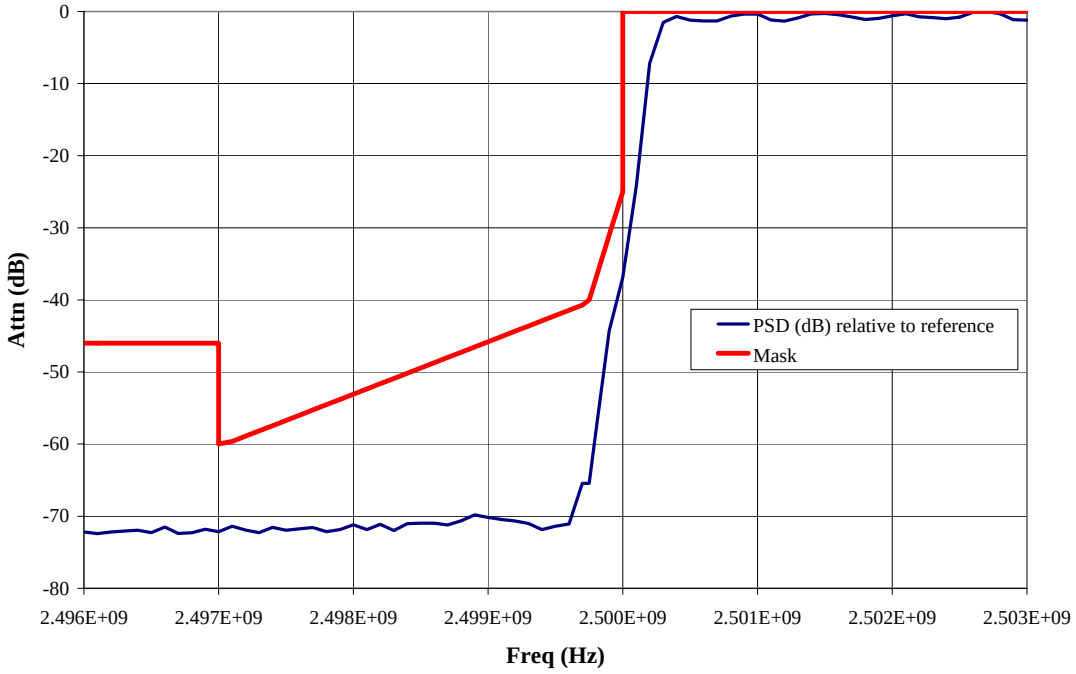
Modulation Mask at 2596 MHz band edge
16-QAM



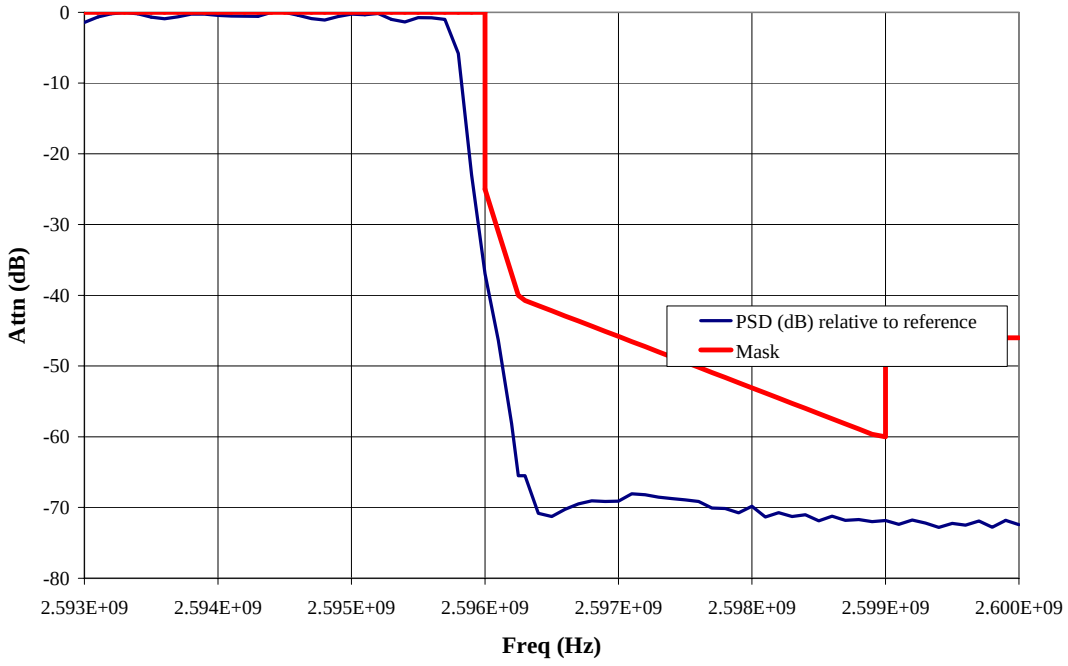
5.5W Unwanted Emissions Results (Cont'd)

64 QAM, 6.0 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
64-QAM



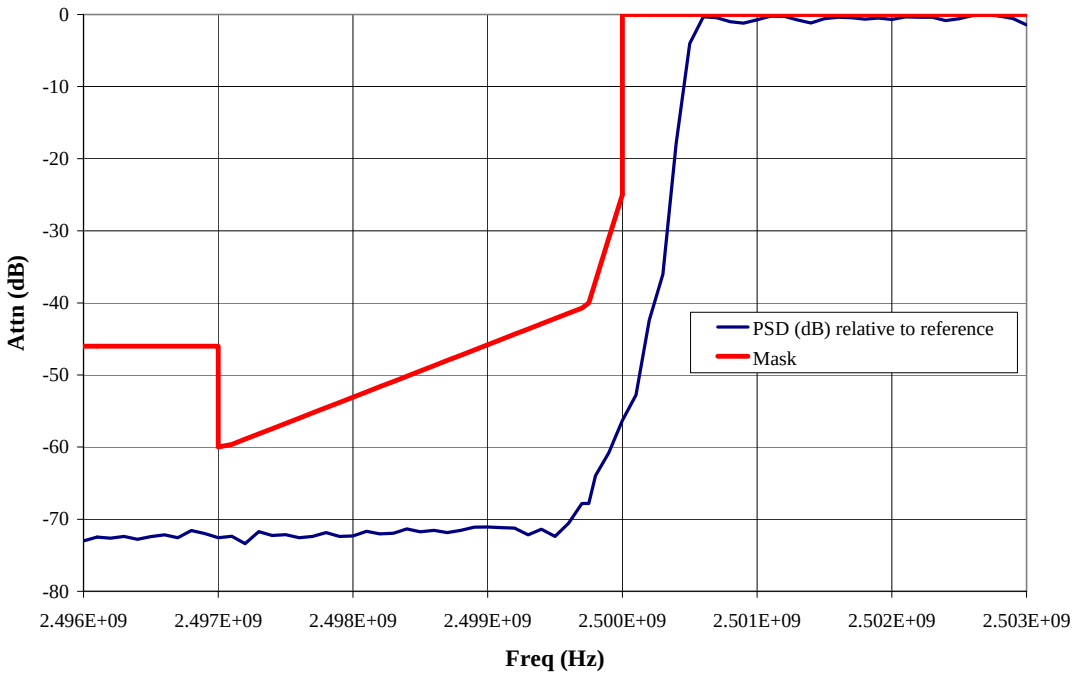
Modulation Mask at 2596 MHz band edge
64-QAM



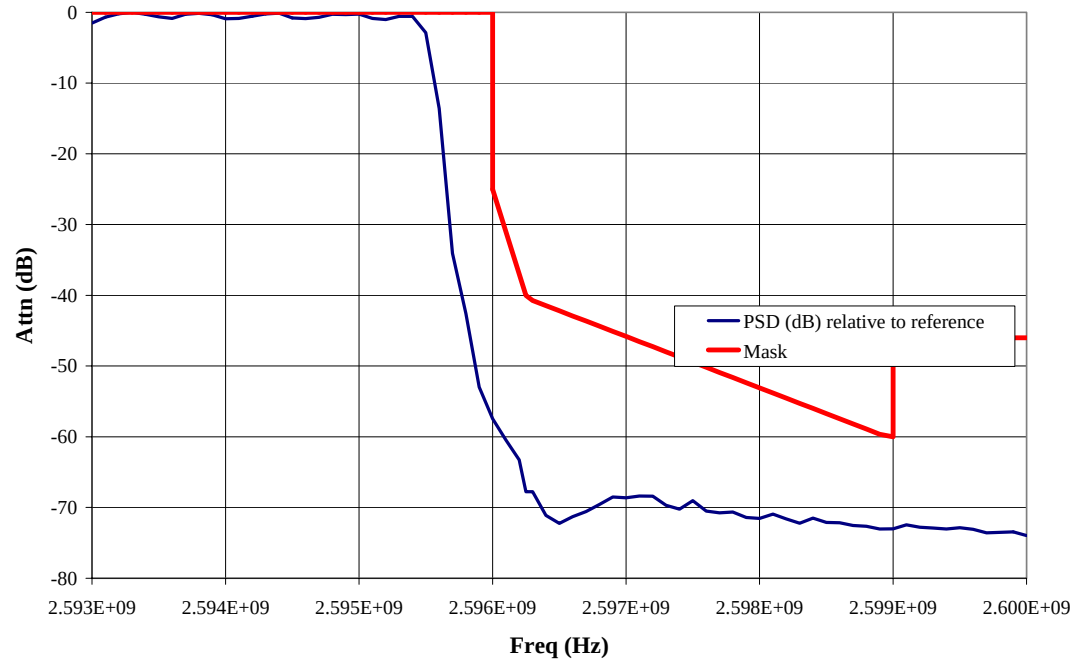
5.5W Unwanted Emissions Results (Cont'd)

4 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
4-QAM



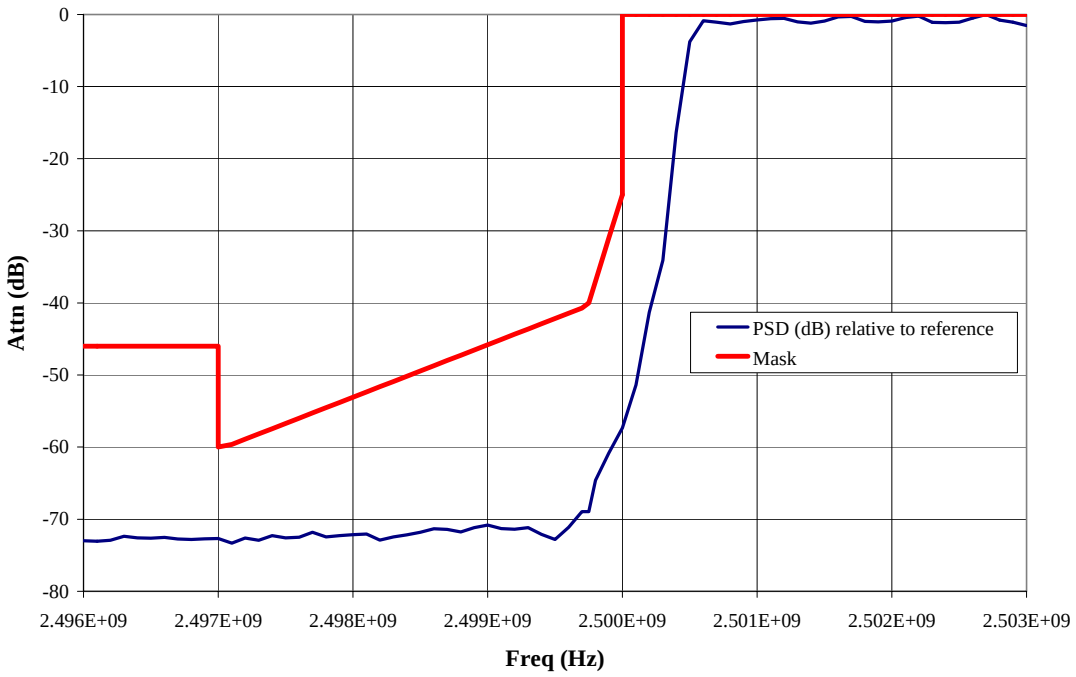
Modulation Mask at 2596 MHz band edge
4-QAM



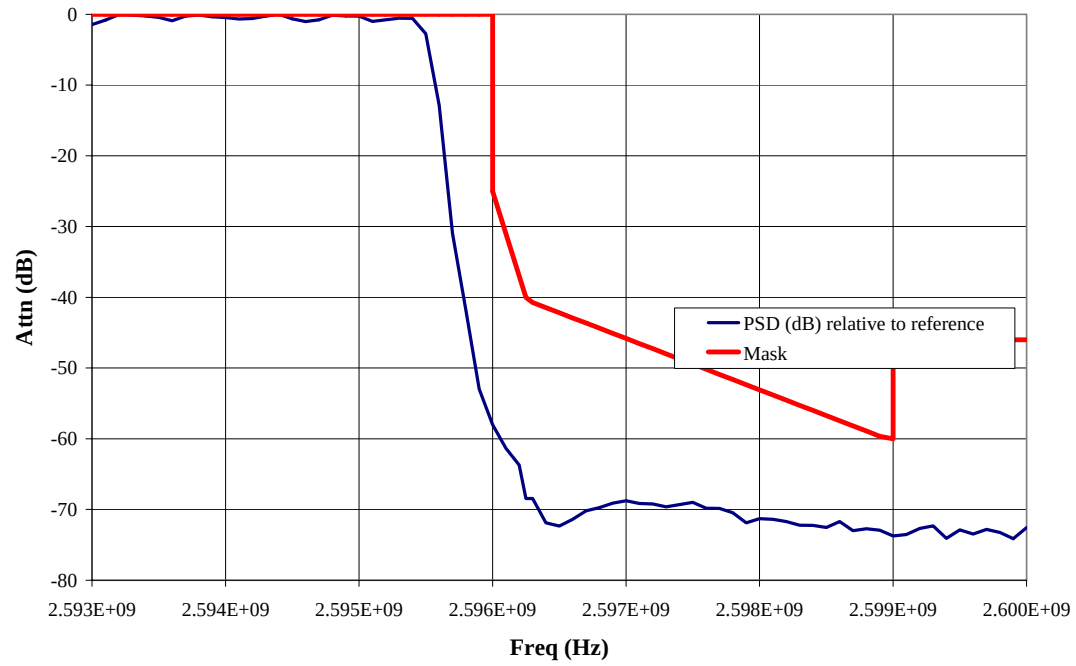
5.5W Unwanted Emissions Results (Cont'd)

16 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
16-QAM



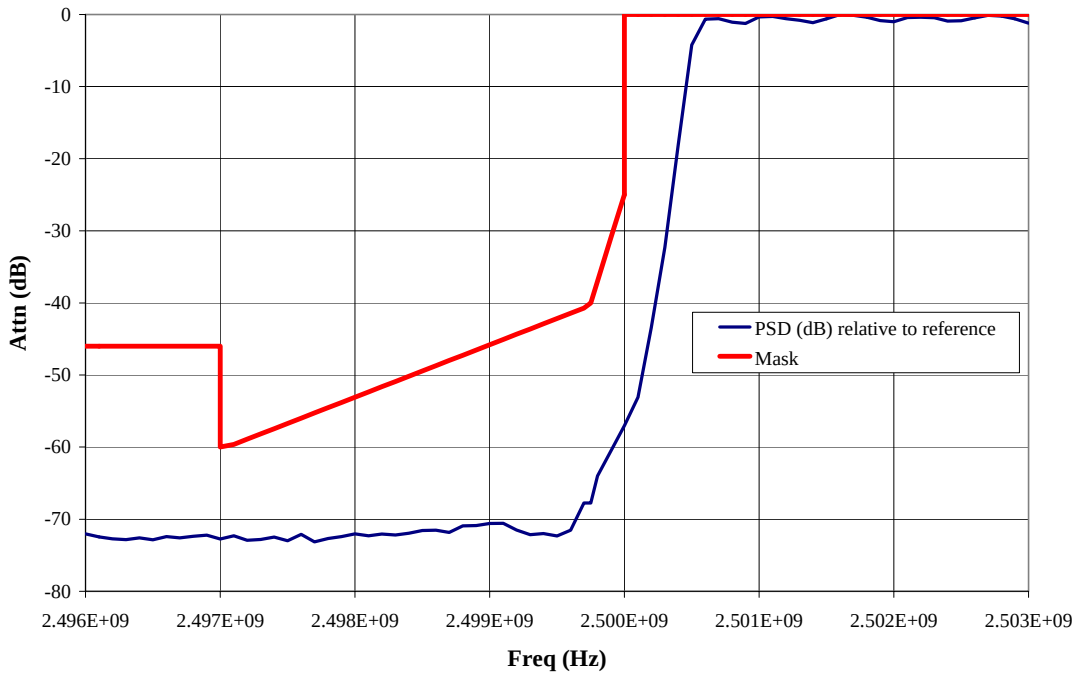
Modulation Mask at 2596 MHz band edge
16-QAM



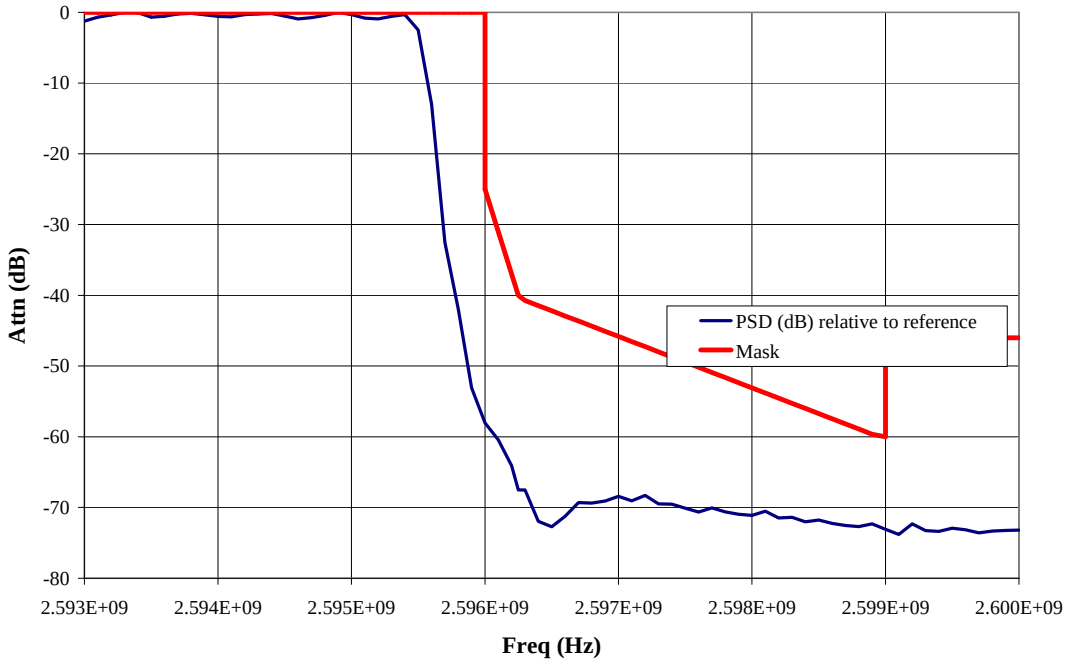
5.5W Unwanted Emissions Results (Cont'd)

64 QAM, 5.5 MHz Bandwidth

Modulation Mask at 2500 MHz band edge
64-QAM



Modulation Mask at 2596 MHz band edge
64-QAM

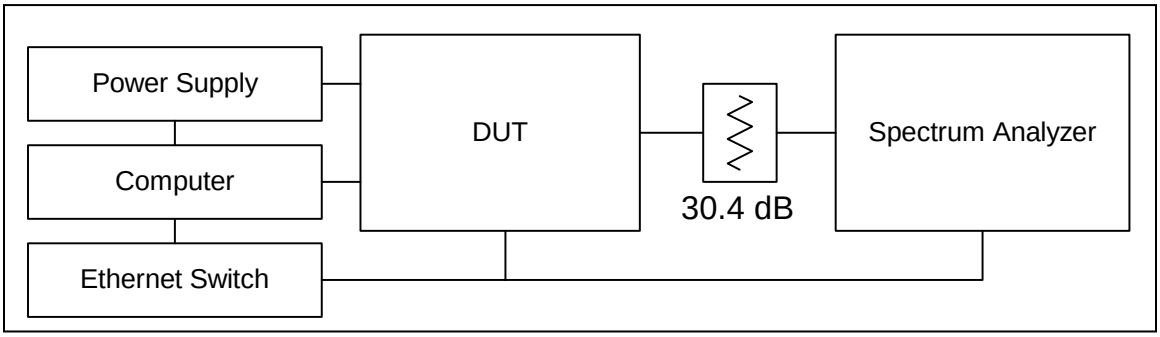


Occupied Bandwidth and Emission Bandwidth

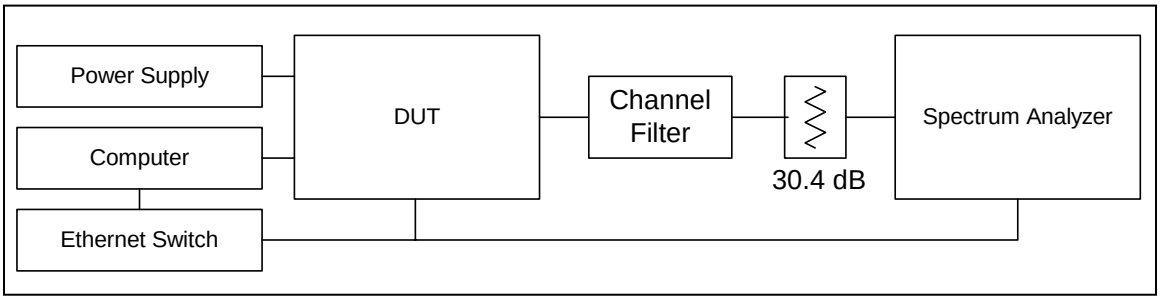
NOTE: Occupied Bandwidth (99.0 %/20 dB) applies to both FCC and Industry Canada tests, and Emission Bandwidth (99.75%/26 dB) applies to FCC tests only.

FCC Rules:	2.1049, 27.53(l)(6)
IC Rules:	RSS-193 clause 3.2(h)
FCC Requirements:	Report Results
IC Requirements:	Report Results
Standard:	ANSI C63.4-2003 American National Standard for Methods of Measurement of Radio- Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
Test Procedure:	The measurement of the Occupied Bandwidth was performed under the guidance of "Occupied Bandwidth Measurement", prepared by, Brian Kasper, Certification and Engineering Bureau, Industry Canada. A copy of this document can be found at: http://strategis.ic.gc.ca/epic/internet/inceb-bhst.nsf/en/h_tt00032e.html The Orthogonal Frequency Division Multiplexing (OFDM) modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer. The bandwidth of the signal is recorded by measuring the modulation bandwidth with the built in measurement function in the spectrum analyzer. The transmitter is enabled in test mode with the attached computer. The RF loss of the attenuators and coax has been measured and is included in the spectrum analyzer offset level. Measurements are performed at frequencies across the band, for each of the modulation formats available (4, 16, and 64-QAM) and channel bandwidths (5.5 MHz and 6 MHz).
Test Conditions:	Test Frequencies: 2503, 2593, 2689 MHz (2 and 5.5 watts, 5.5 and 6.0 MHz bandwidth) Temperature = 25°C Supply Voltage = 48.0 VDC Nominal to DUT

Occupied Bandwidth and Emission Bandwidth (Cont'd)



2W Test Setup



5W Test Setup

Occupied and Emission Bandwidth Test Results Summary (2W)

2-WATT CHANNELS

Occupied Bandwidth (MHz) for 20 dB (99.0%)				
Freq (MHz)	**Channel BW (MHz)**	**4-QAM**	**16-QAM**	**64-QAM**
2503	5.5	4.959	4.959	4.958
2593	5.5	4.959	4.959	4.999
2689	5.5	4.959	4.959	4.959
2503	6.0	5.480	5.480	5.480
2593	6.0	5.480	5.480	5.480
2689	6.0	5.480	5.480	5.480

Emission Bandwidth (MHz) for 26 dB (99.75 %)				
Freq (MHz)	**Channel BW (MHz)**	**4-QAM**	**16-QAM**	**64-QAM**
2503	5.5	5.023	5.023	5.023
2593	5.5	5.023	5.023	5.023
2689	5.5	5.023	5.023	5.023
2503	6.0	5.550	5.550	5.550
2593	6.0	5.550	5.551	5.550
2689	6.0	5.550	5.550	5.550

Occupied and Emission Bandwidth Test Results Summary (5.5W)

5.5-WATT CHANNELS

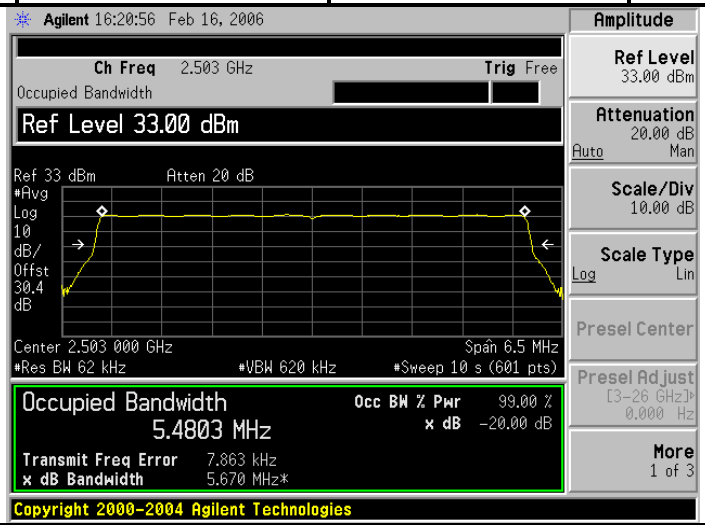
Occupied Bandwidth (MHz) for 20 dB (99.0%)				
Freq (MHz)	**Channel BW (MHz)**	**4-QAM**	**16-QAM**	**64-QAM**
2503	5.5	4.956	4.956	4.956
2593	5.5	4.956	4.956	4.956
2683	5.5	4.956	4.956	4.956
2503	6.0	5.475	5.475	5.475
2593	6.0	5.474	5.474	5.474
2683	6.0	5.475	5.475	5.475

Emission Bandwidth (MHz) for 26 dB (99.75 %)				
Freq (MHz)	**Channel BW (MHz)**	**4-QAM**	**16-QAM**	**64-QAM**
2503	5.5	5.021	5.021	5.021
2593	5.5	5.021	5.021	5.021
2503	5.5	5.021	5.021	5.021
2503	6.0	5.547	5.547	5.547
2593	6.0	5.546	5.546	5.547
2683	6.0	5.547	5.547	5.546

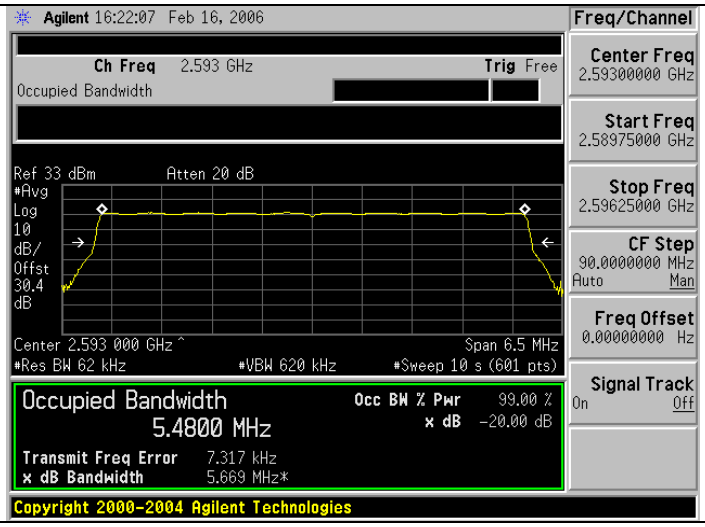
Occupied Bandwidth Spectrum Analyzer Plots

NOTE: The following are spectrum analyzer plots of the 4 QAM data in the preceding tables. The plots for the 16 and 64 QAM modulation levels are similar and are shown in the Appendix.

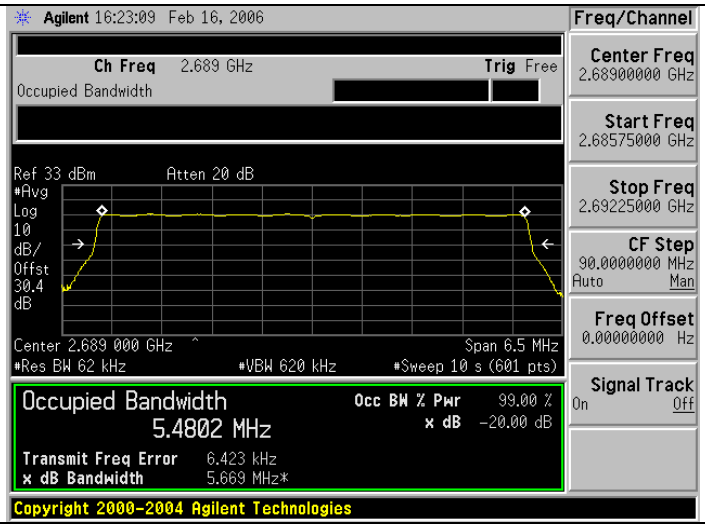
Occupied BW	Bandwidth: 5.5 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

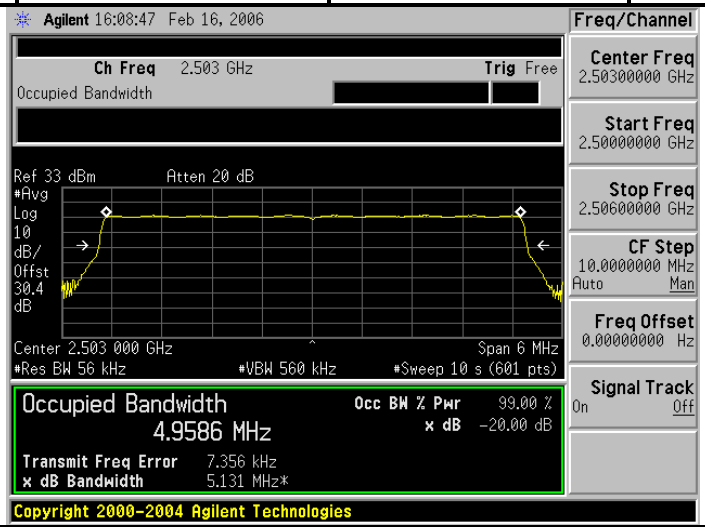


2593 MHz

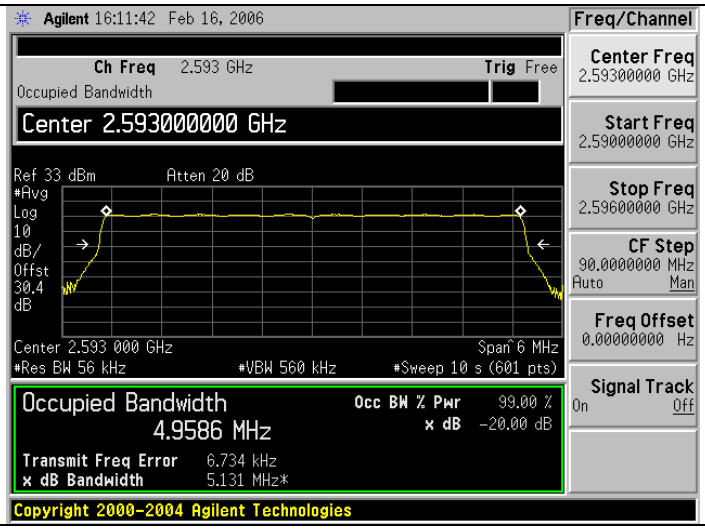


2689 MHz

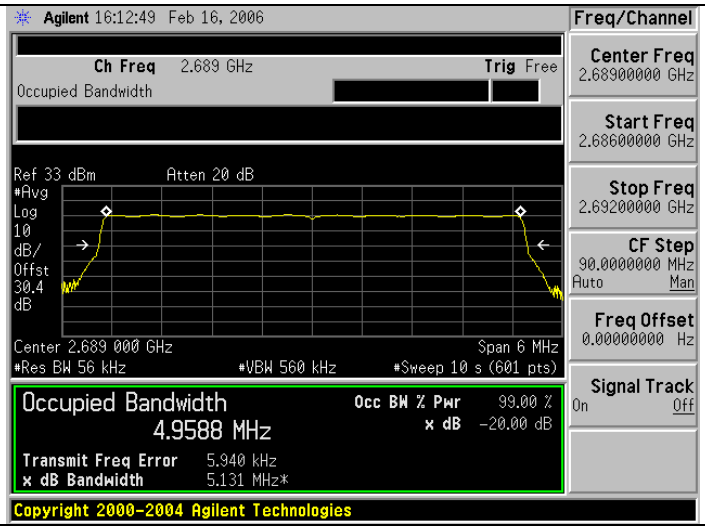
Occupied BW	Bandwidth: 5.5 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

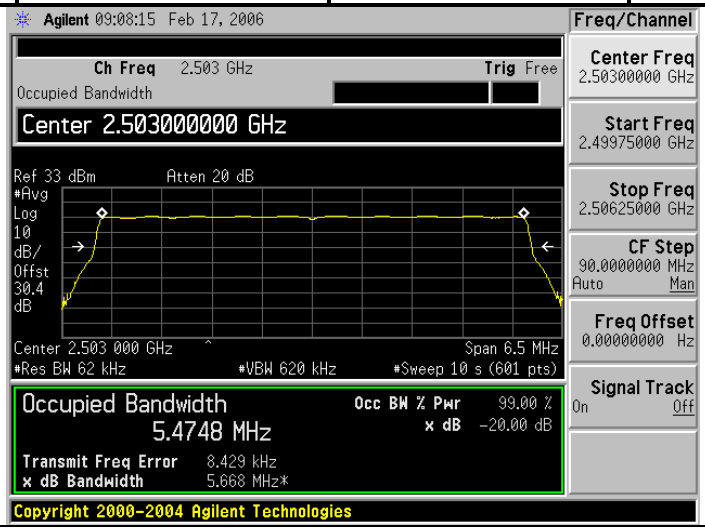


2593 MHz

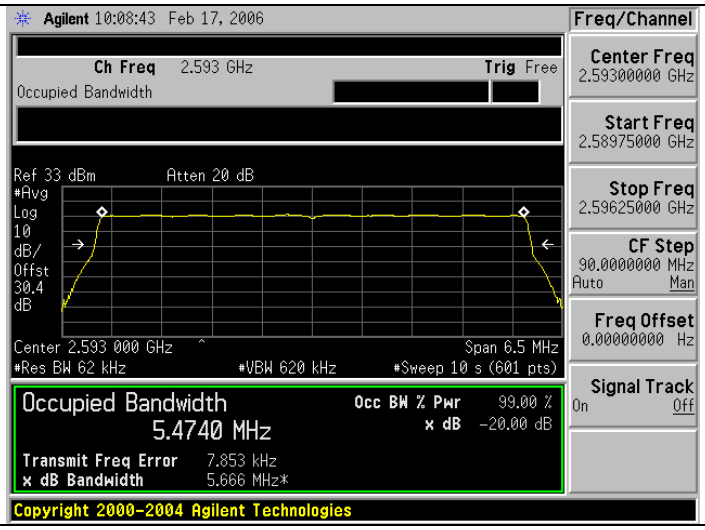


2689 MHz

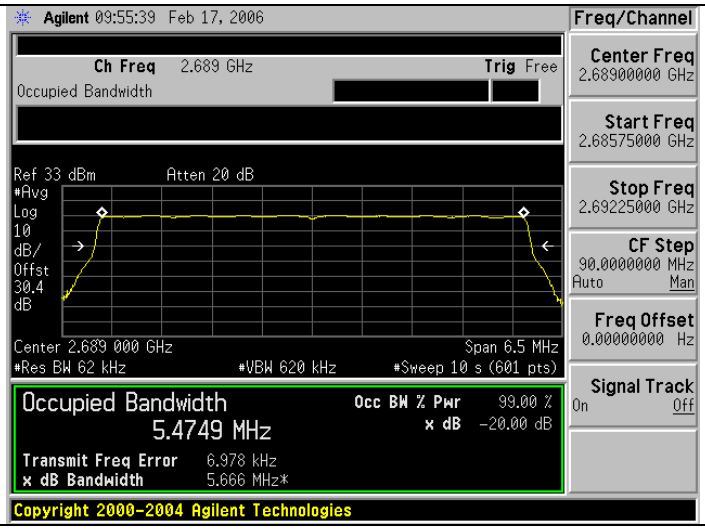
Occupied BW	Bandwidth: 6.0 MHz	RF Power: 5.5 watts	Modulation: 4 QAM



2503 MHz

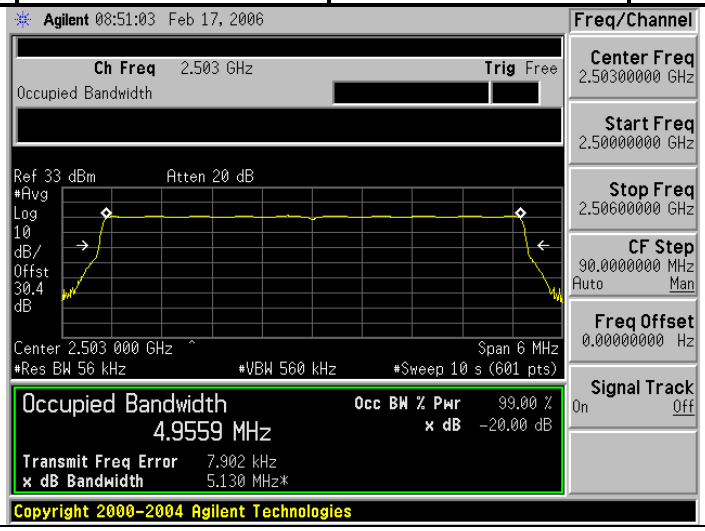


2593 MHz

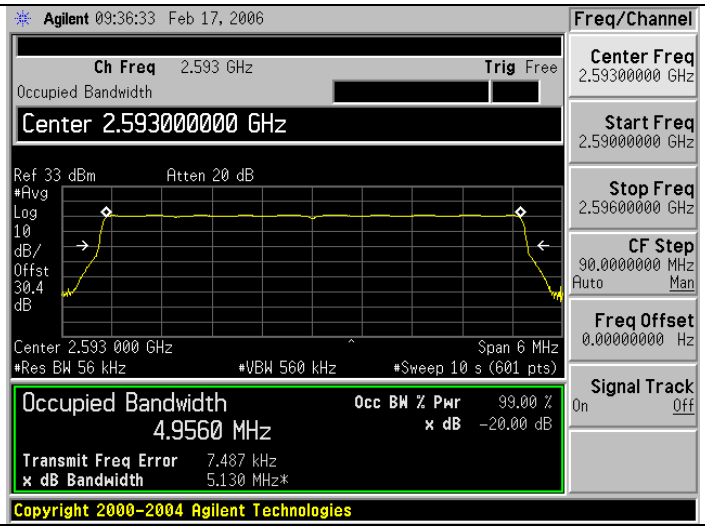


2689 MHz

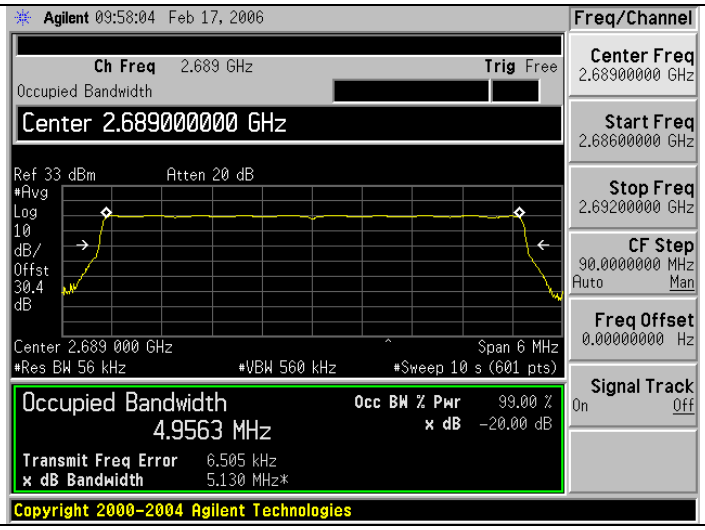
Occupied BW	Bandwidth: 5.5 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

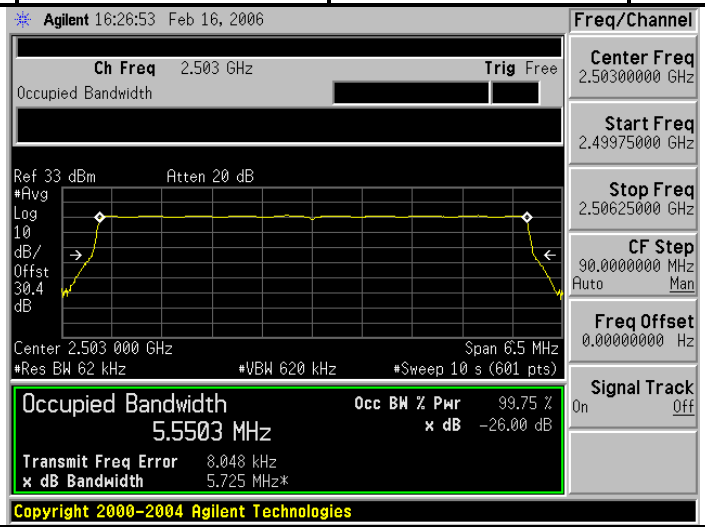


2593 MHz

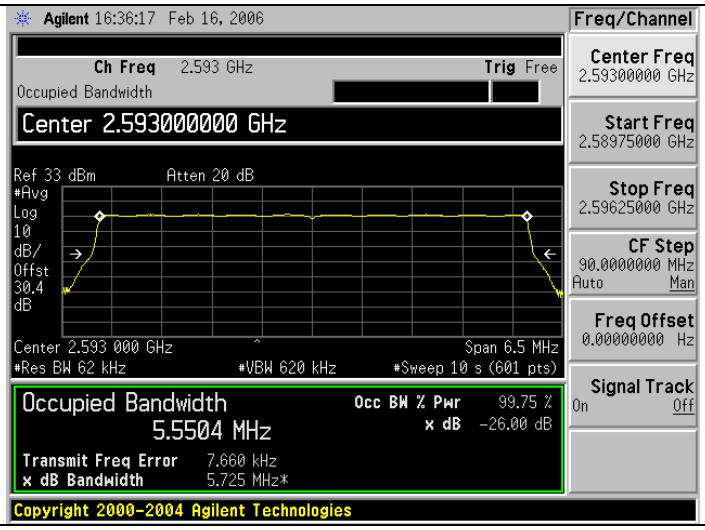


2689 MHz

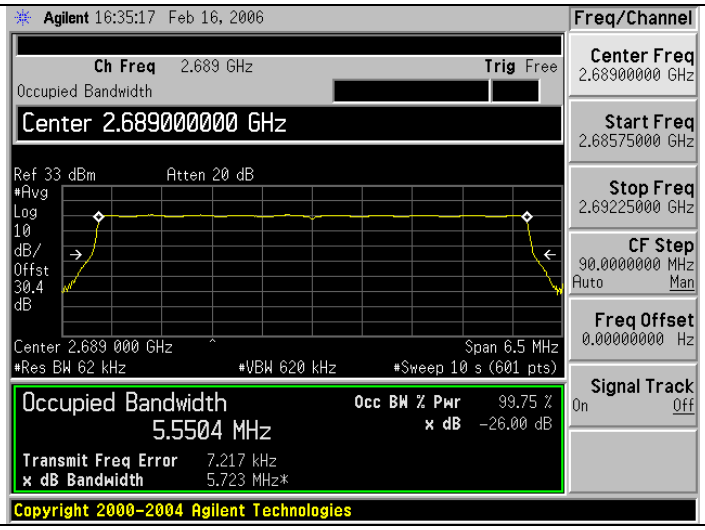
Emission BW	Bandwidth: 6.0 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

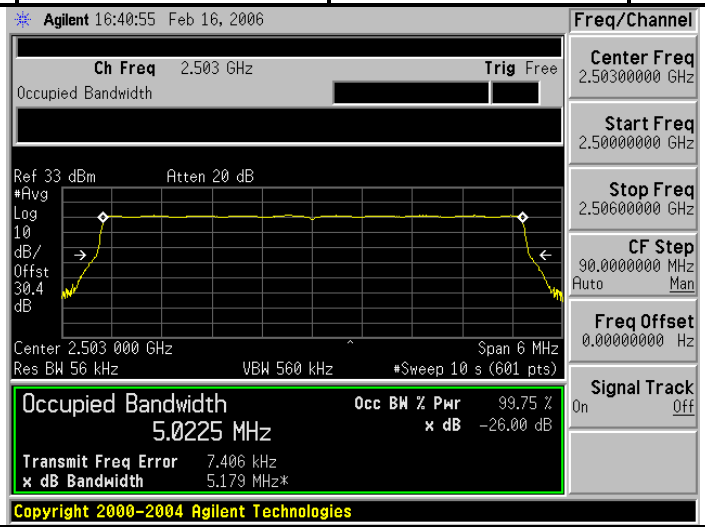


2593 MHz

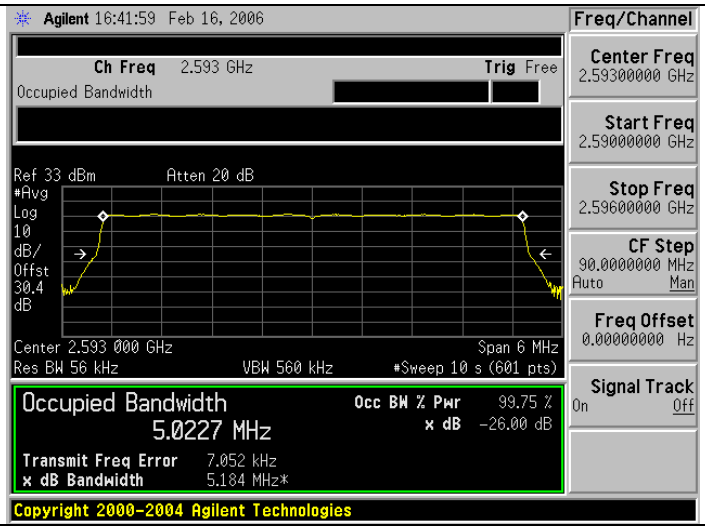


2689 MHz

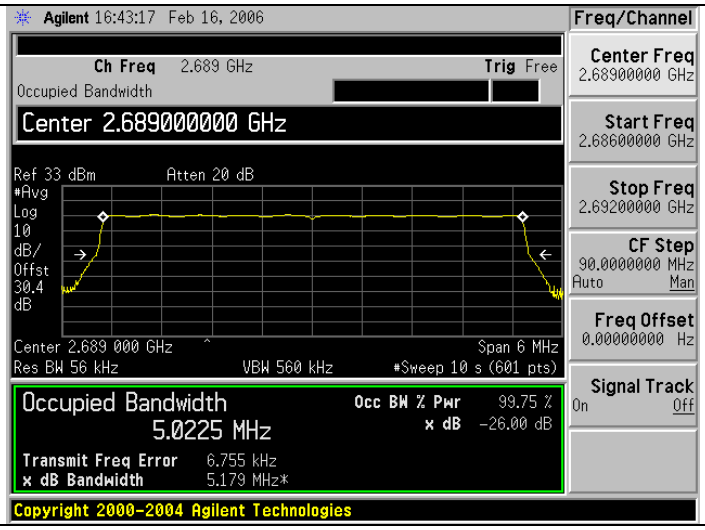
Emission BW	Bandwidth: 5.5 MHz	RF Power: 2 Watts	Modulation: 4 QAM



2503 MHz

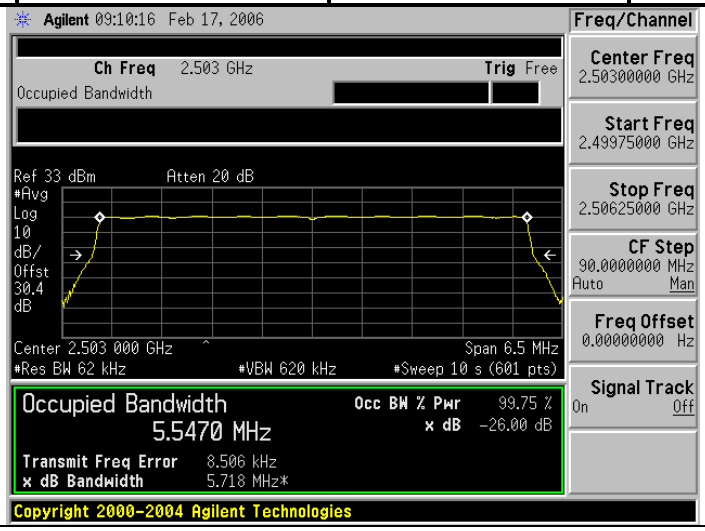


2593 MHz

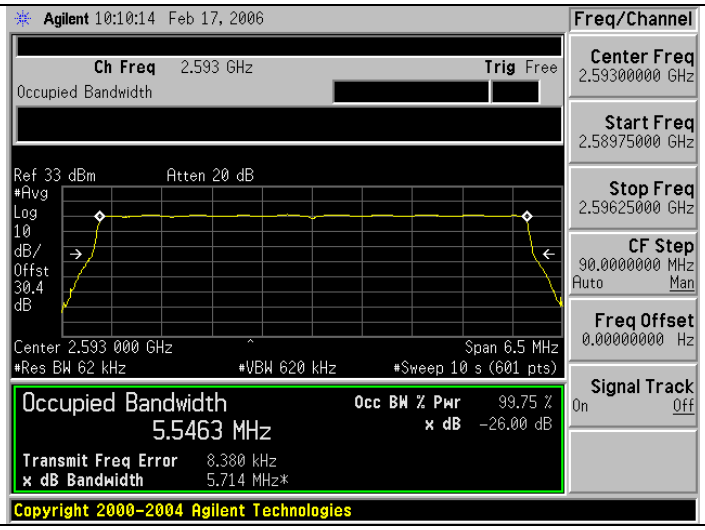


2689 MHz

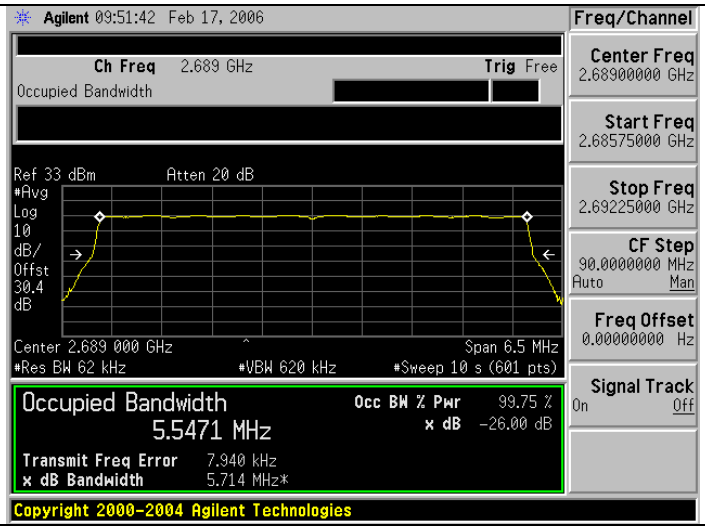
Emission BW	Bandwidth: 6.0 MHz	RF Power: 5.5 watts	Modulation: 4 QAM



2503 MHz

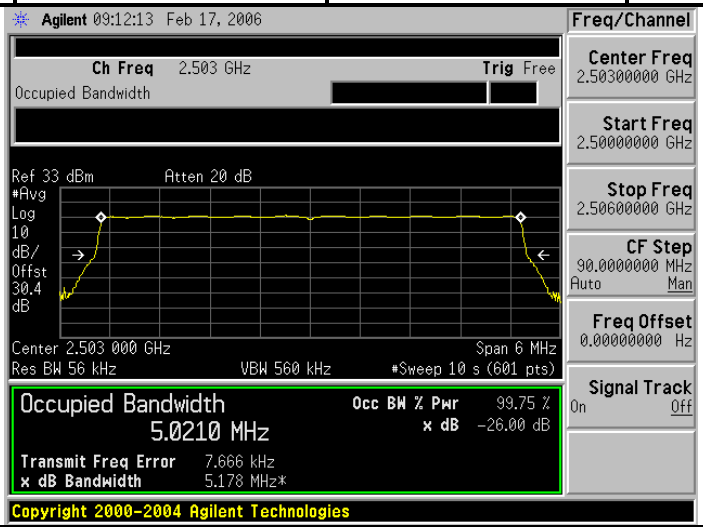


2593 MHz

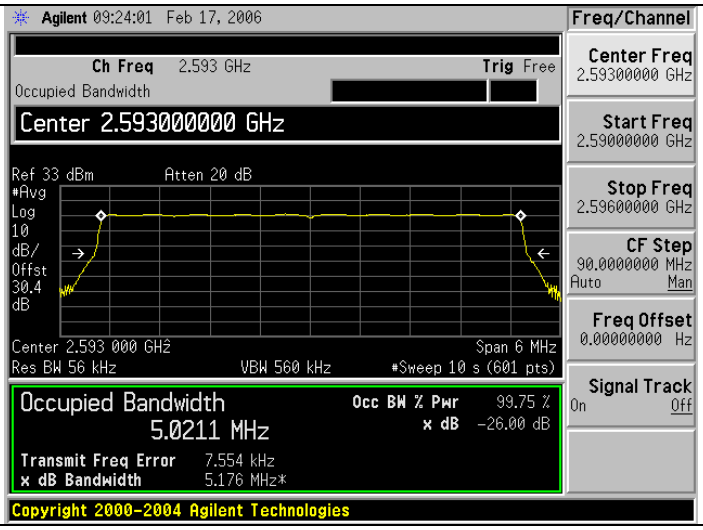


2689 MHz

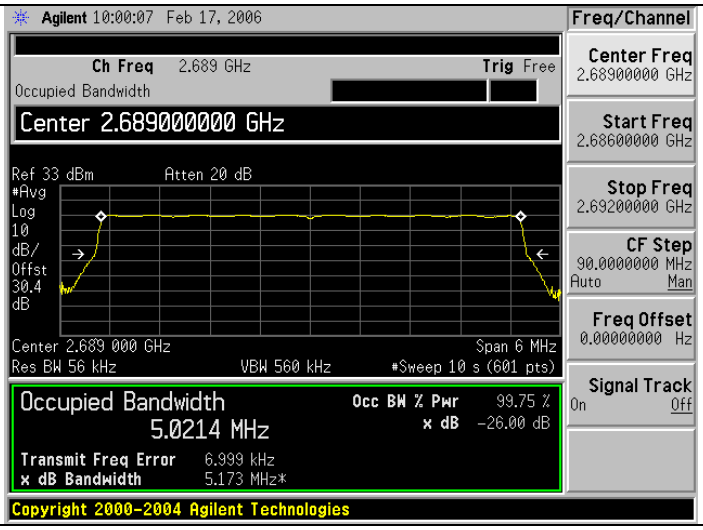
Emission BW	Bandwidth: 5.5 MHz	RF Power: 5.5 watts	Modulation: 4 QAM



2503 MHz



2593 MHz



2689 MHz