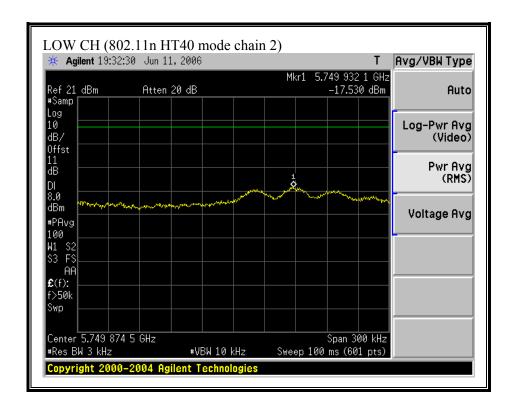
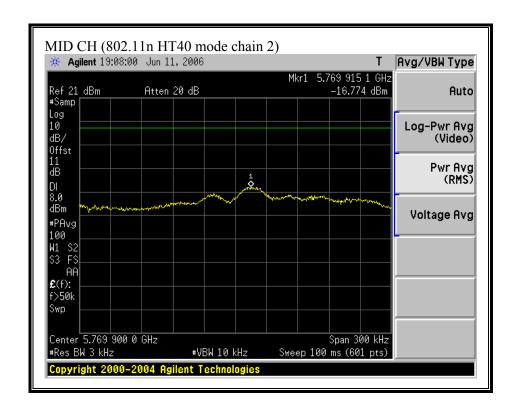
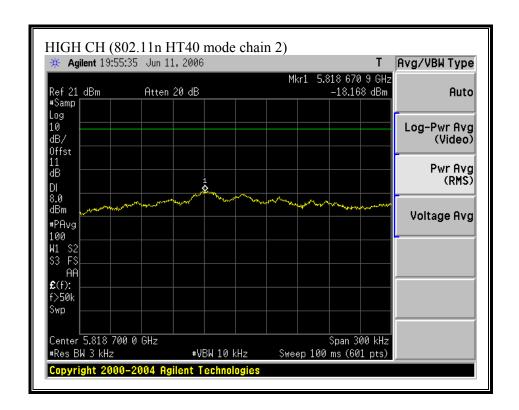


(802.11 HT40 MODE CHAIN 2)







7.2.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

§15.247 (c) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in \$15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Conducted power was measured using the Option 2 procedures, therefore the required attenuation is 30

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 150 kHz.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

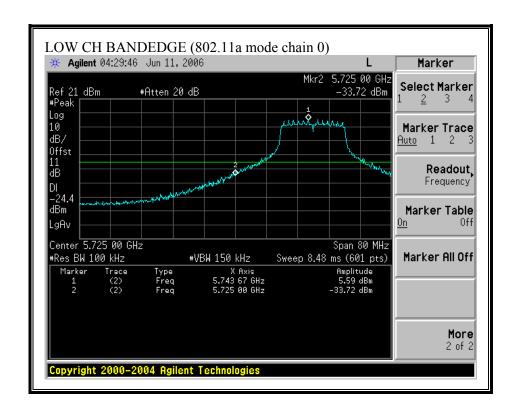
RESULTS

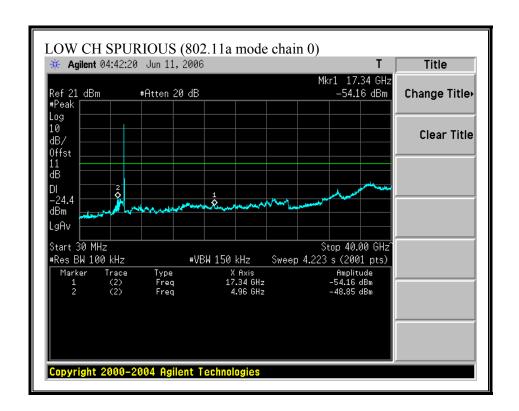
No non-compliance noted:

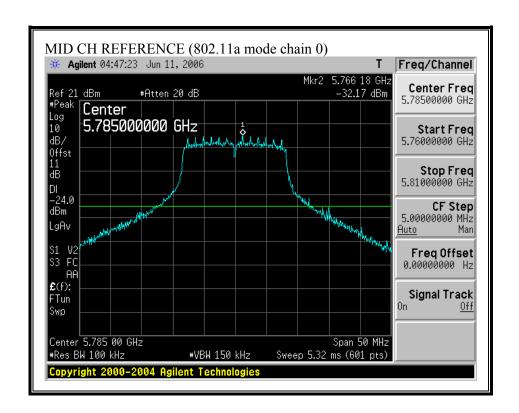
DATE: JUNE 26, 2006

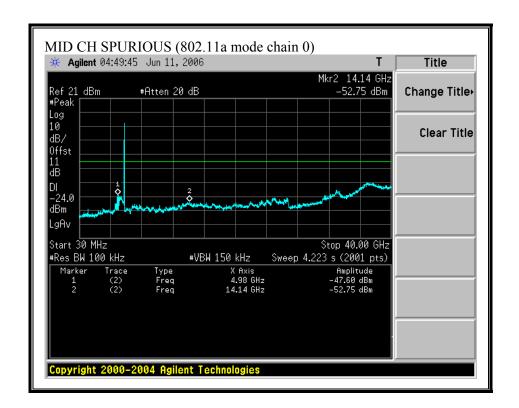
FCC ID: PPD-AR5BXB72

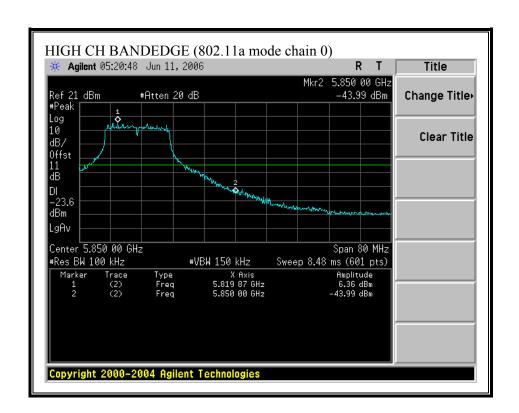
SPURIOUS EMISSIONS (802.11a MODE CHAIN 0)

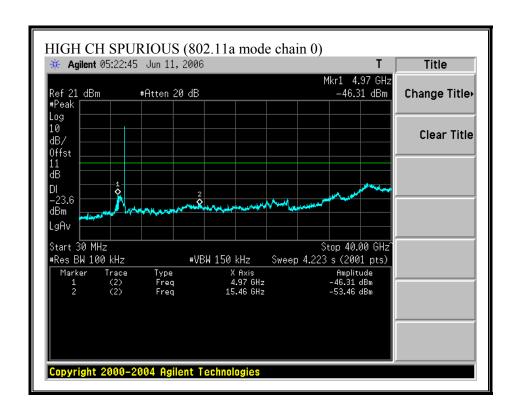




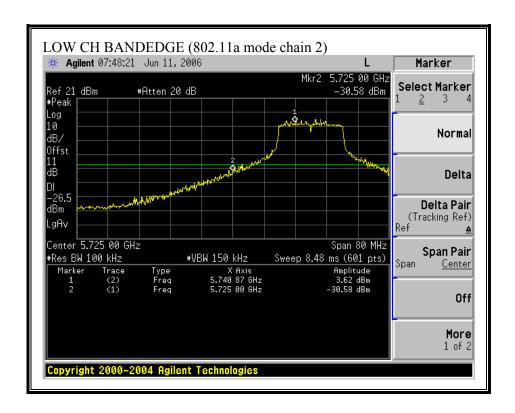


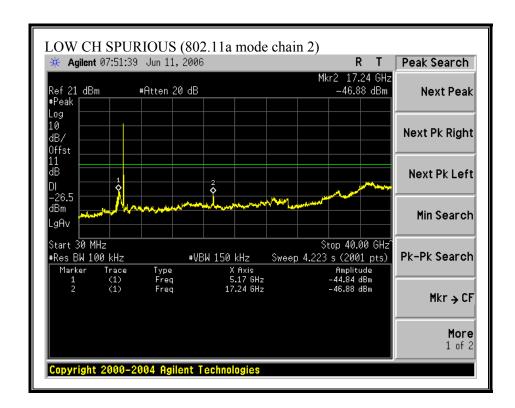


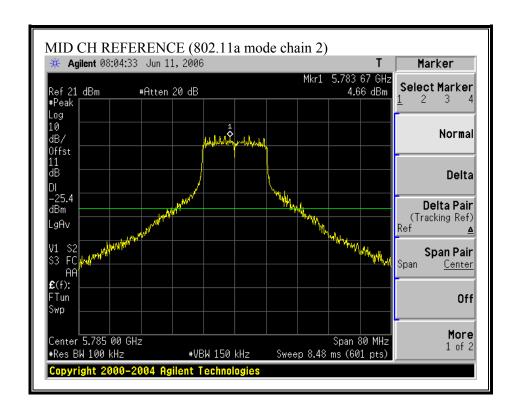


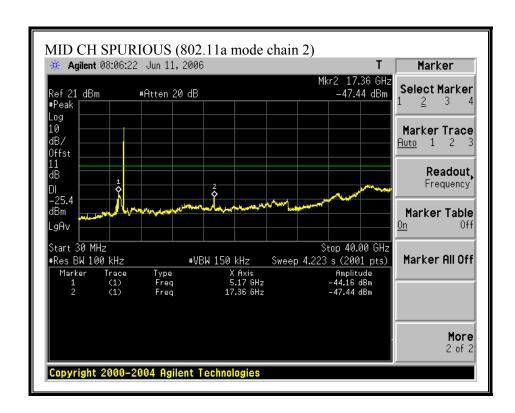


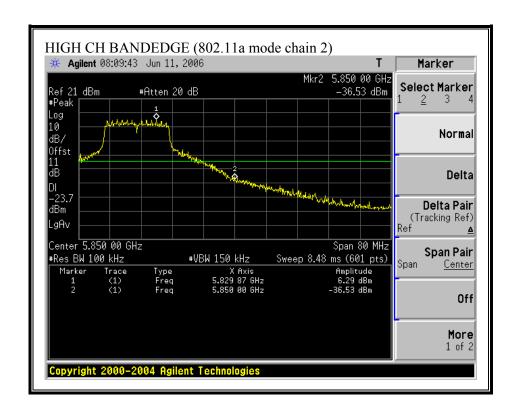
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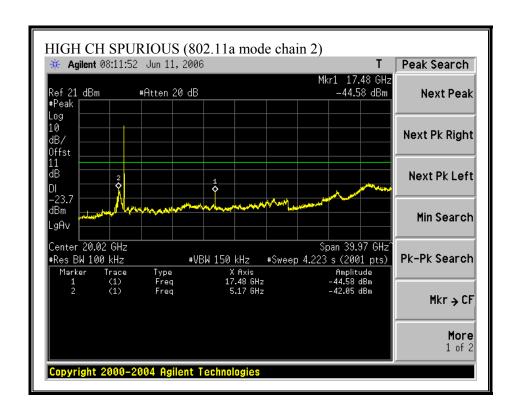




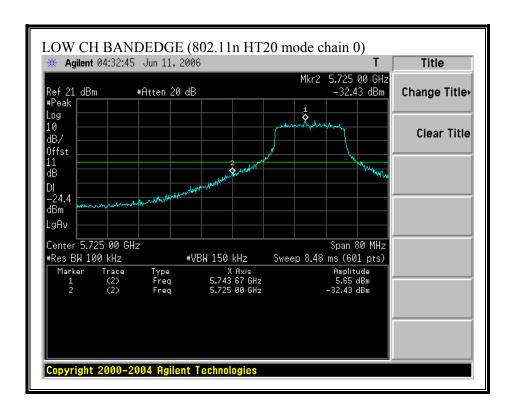


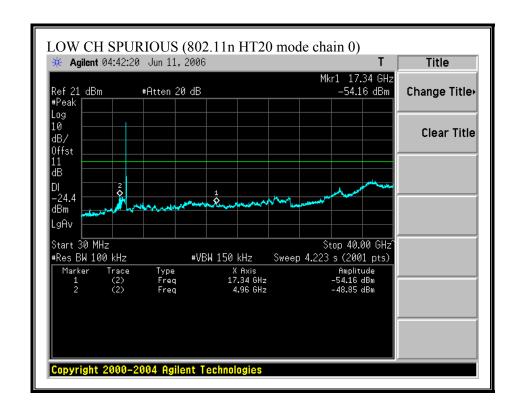


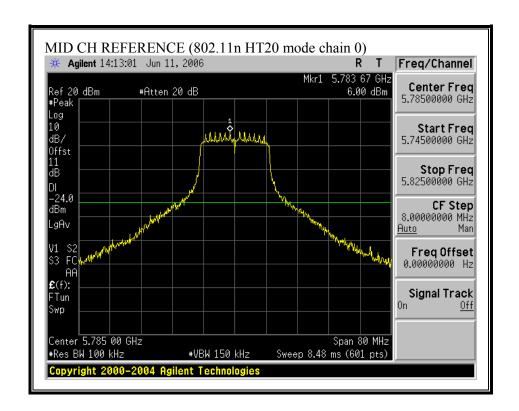


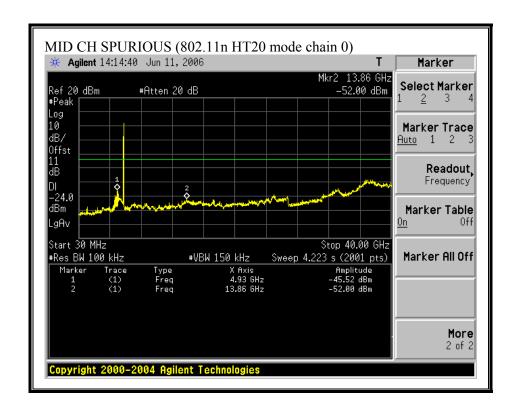


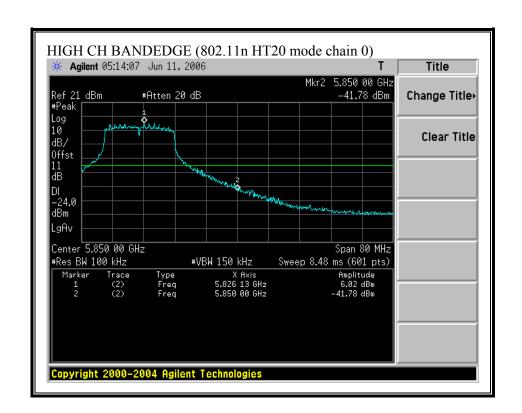
SPURIOUS EMISSIONS (802.11n HT20 MODE CHAIN 0)

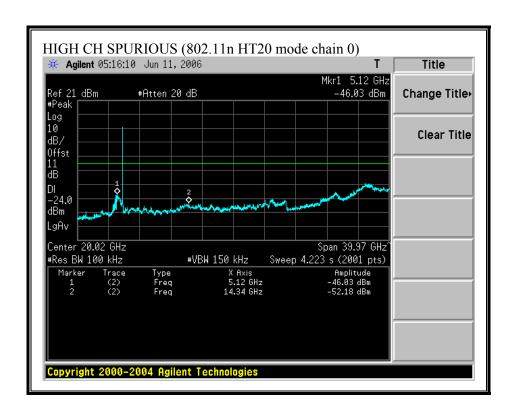




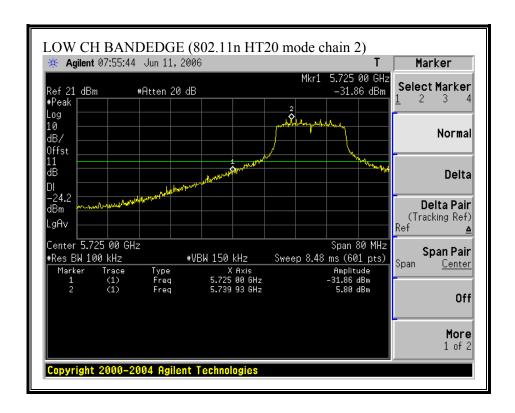


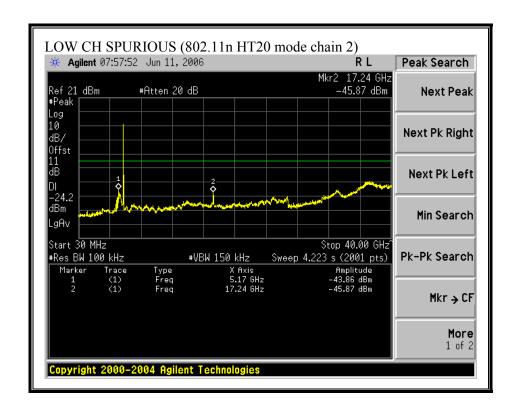


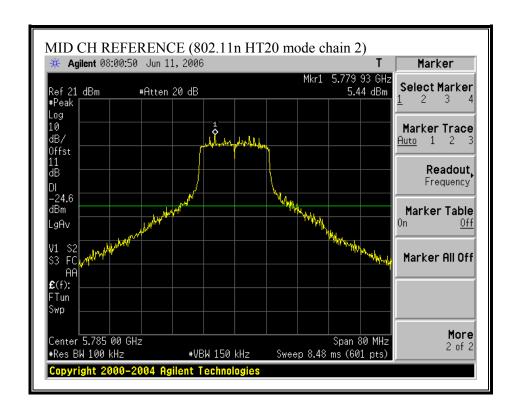


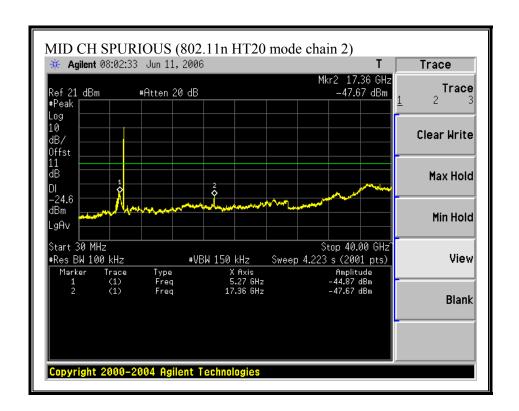


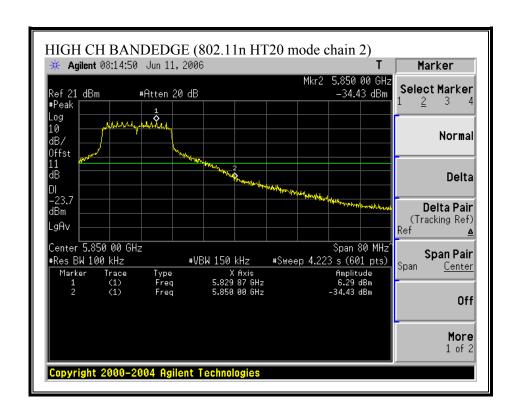
SPURIOUS EMISSIONS (802.11 HT20 MODE CHAIN 2)

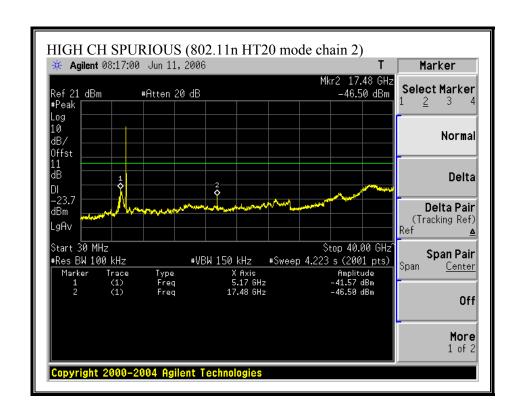




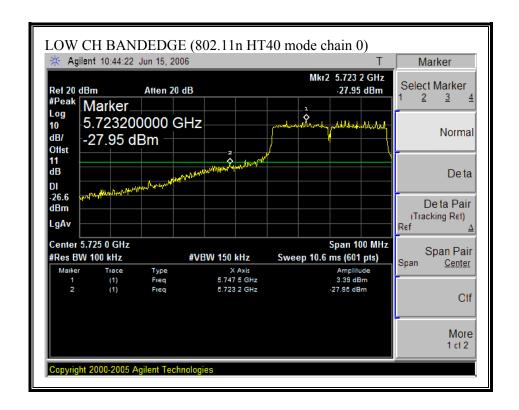


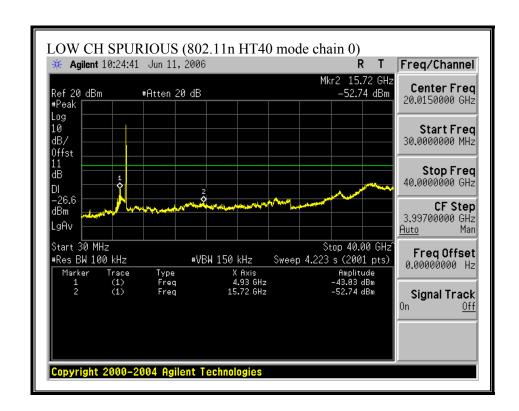


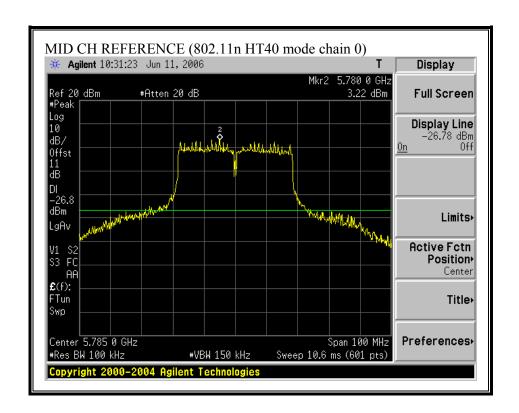


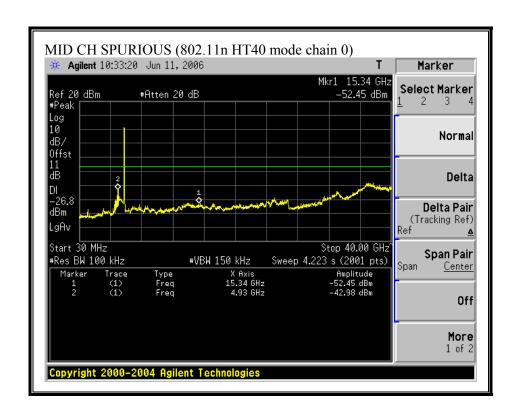


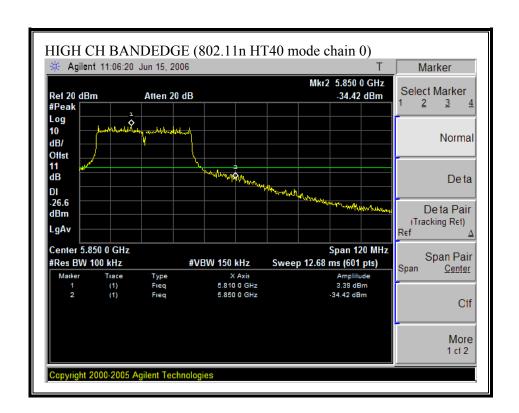
SPURIOUS EMISSIONS (802.11 HT40 MODE CHAIN 0)

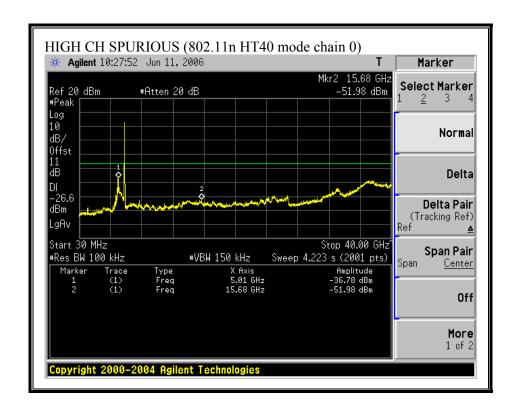




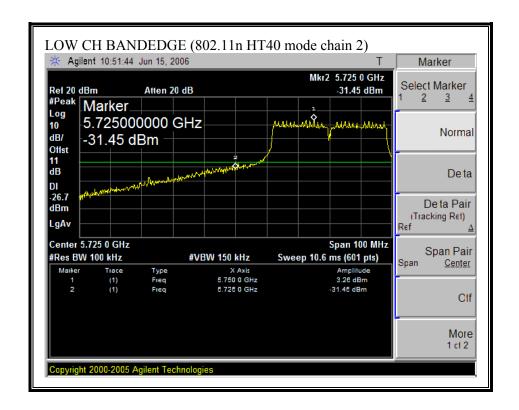


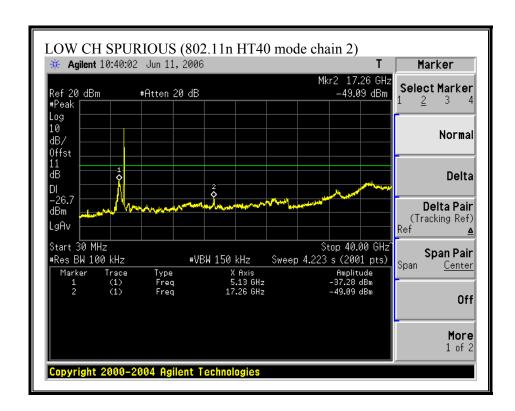


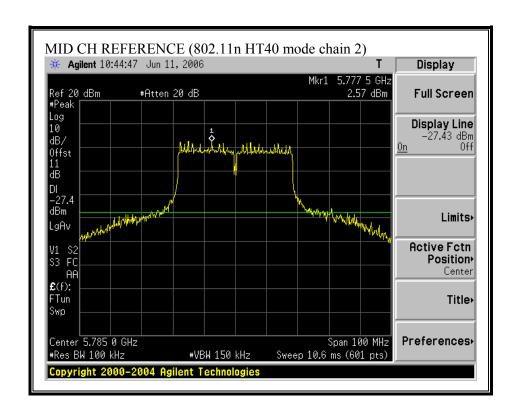


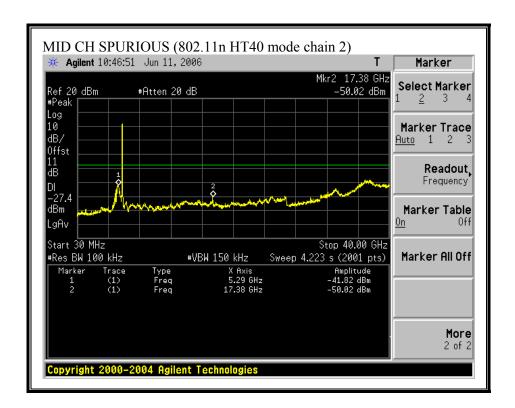


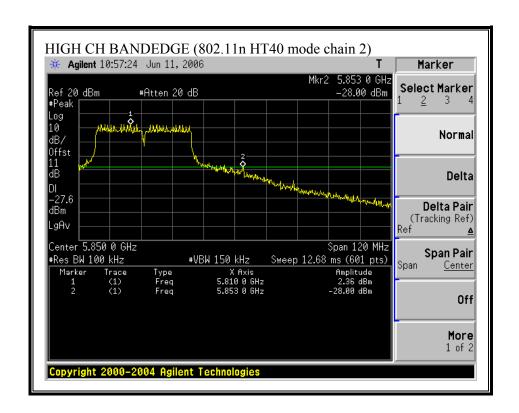
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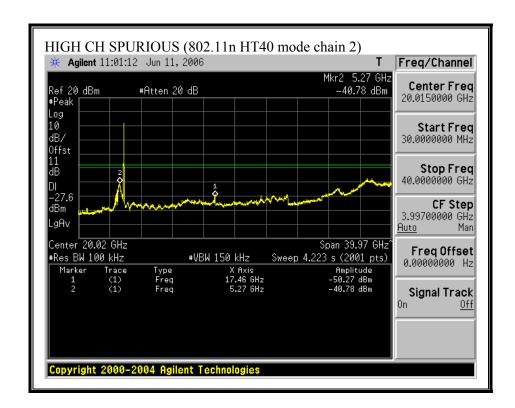




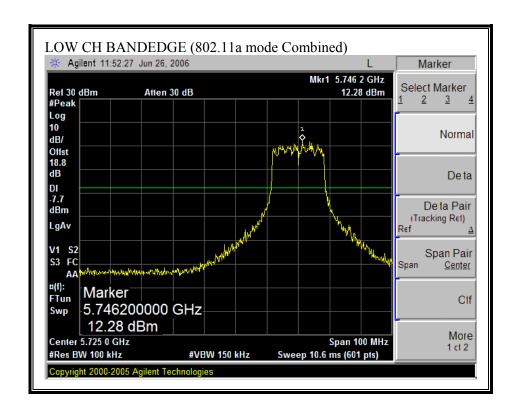


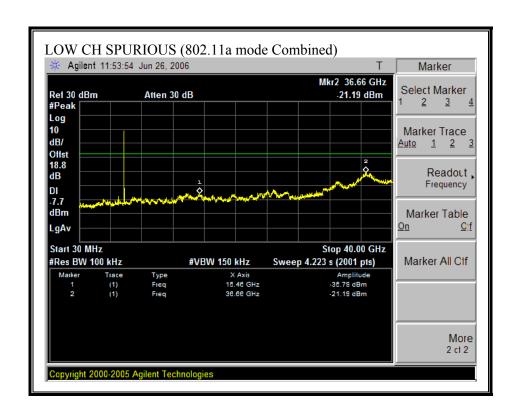


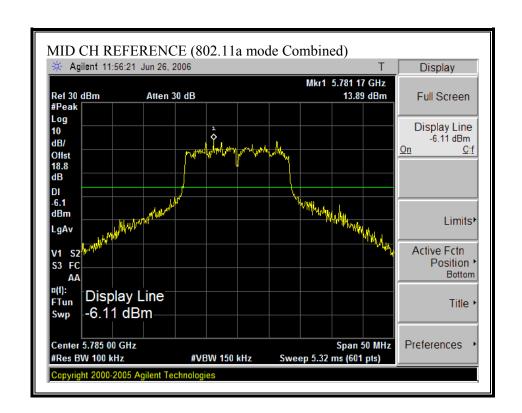


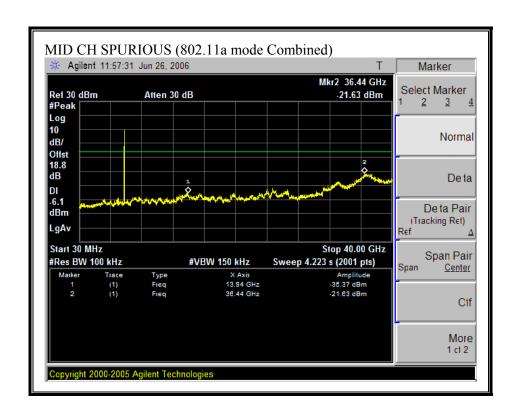


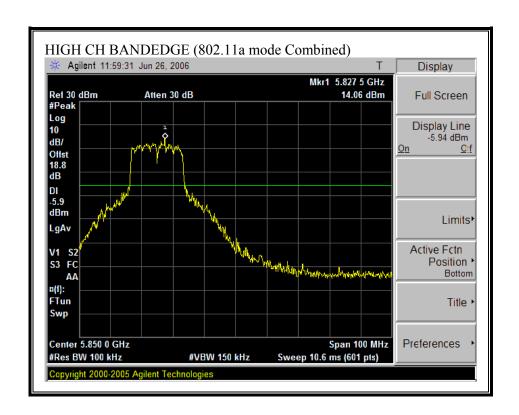
COMBINED SPURIOUS EMISSIONS (802.11a MODE)

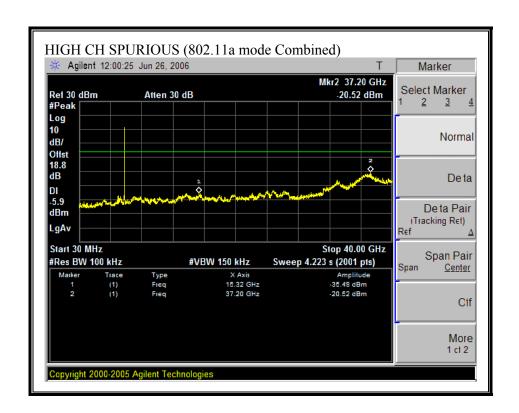




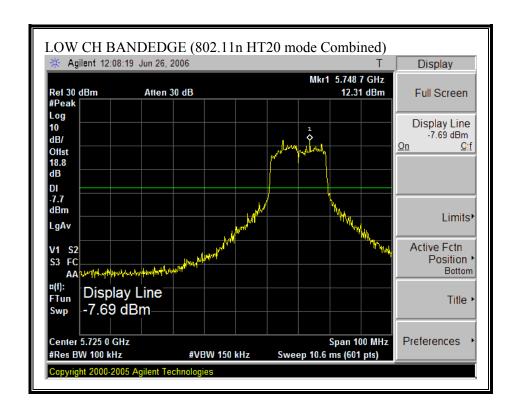


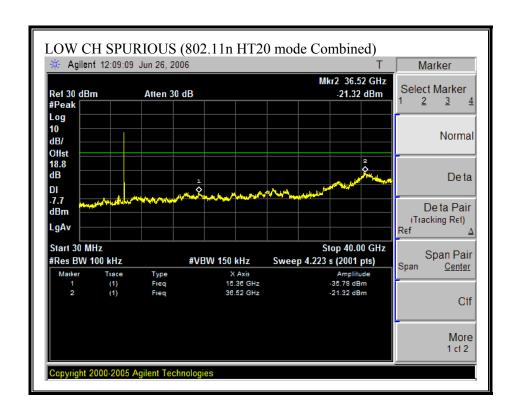


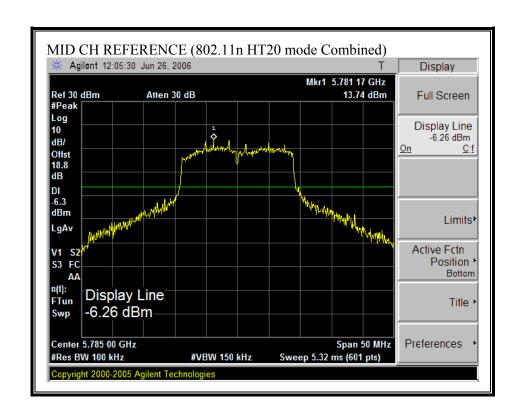


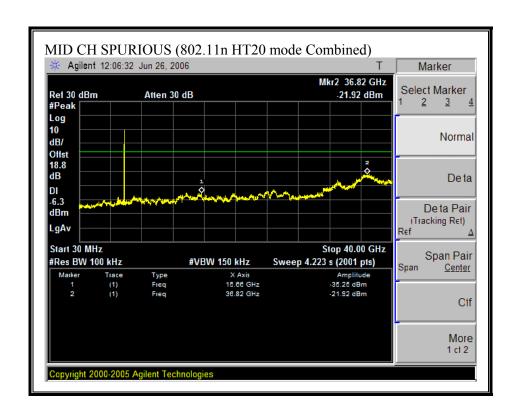


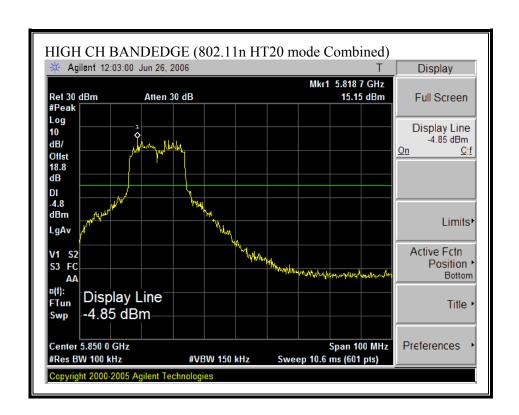
COMBINED SPURIOUS EMISSIONS (802.11n HT20 MODE)

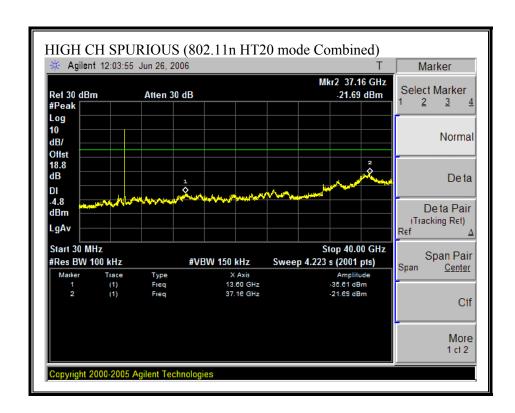




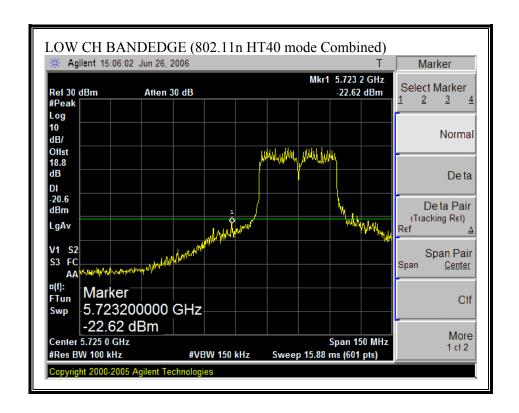


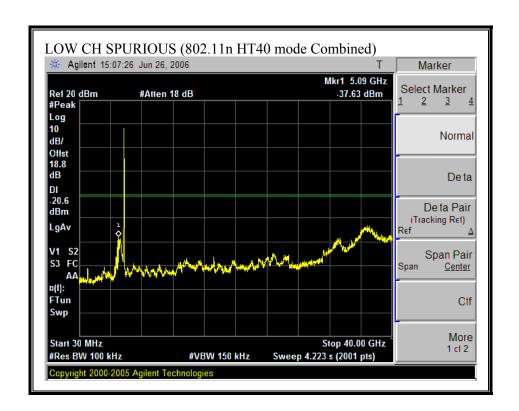




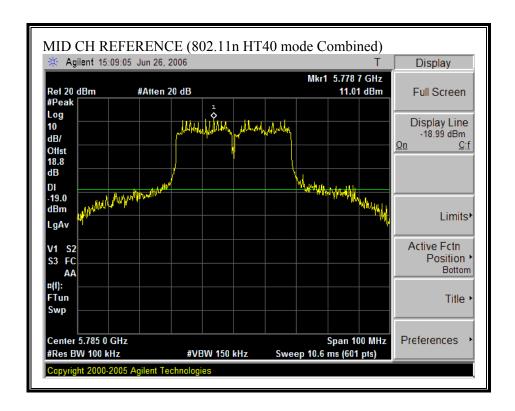


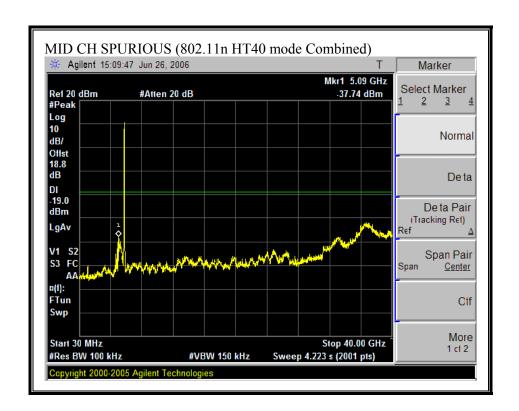
COMBINED SPURIOUS EMISSIONS (802.11 HT40 MODE)

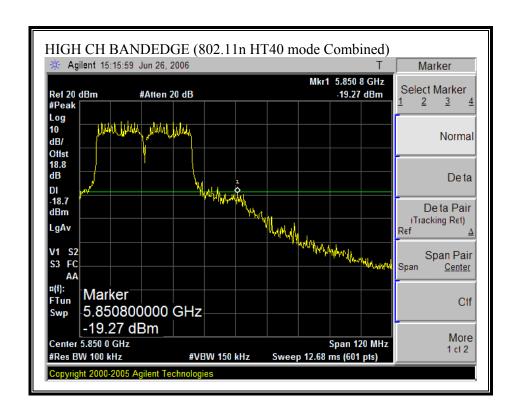


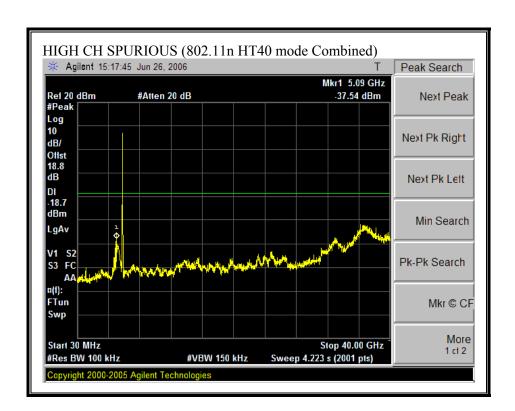


COMBINED SPURIOUS EMISSIONS (802.11 HT40 MODE)









DATE: JUNE 26, 2006 FCC ID: PPD-AR5BXB72

7.3. MAXIMUM PERMISSIBLE EXPOSURE

LIMITS

§1.1310 The criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of §2.1093 of this chapter.

TABLE 1-LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(A) Lim	nits for Occupational	I/Controlled Exposu	res	
0.3–3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f²)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500–100,000			5	6
(B) Limits	for General Populati	ion/Uncontrolled Exp	oosure	
0.3–1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)—Continued

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
30–300 300–1500 1500–100,000	27.5	0.073	0.2 f/1500 1.0	30 30 30

f = frequency in MHz

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their
employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for

exposure or can not exercise control over their exposure.

CALCULATIONS

Given

$$E = \sqrt{(30 * P * G)/d}$$

and

$$S = E ^2 / 3770$$

where

E = Field Strength in Volts/meter

P = Power in Watts

G = Numeric antenna gain

d = Distance in meters

S = Power Density in milliwatts/square centimeter

Combining equations yields:

$$S = (30 * P * G) / (3770 * (d^2))$$

Changing to units of Power to mW and Distance to cm, using:

$$P(W) = P(mW) / 1000$$
 and $d(m) = d(cm) / 100$

and substituting the logarithmic form of power and gain using:

$$P (mW) = 10^{\circ} (P (dBm) / 10)$$
 and $G (numeric) = 10^{\circ} (G (dBi) / 10)$

yields

$$S = 0.0795 * 10 ^ ((P + G) / 10) / (d^2)$$

where

d = MPE distance in cm

P = Power in dBm

G = Antenna Gain in dBi

 $S = Power Density Limit in mW/cm^2$

LIMITS

From §1.1310 Table 1 (B), the maximum value of $S = 1.0 \text{ mW/cm}^2$

RESULTS

No non-compliance noted: (MPE distance equals 20 cm)

Band	MPE	Total	Antenna	Power
	Distance	Power	Gain	Density
(GHz)	(cm)	(dBm)	(dBi)	(mW/cm^2)
2.4	20.0	23.74	3.62	0.11
5.8	20.0	20.22	4.76	0.06

NOTE: For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.

DATE: JUNE 26, 2006

FCC ID: PPD-AR5BXB72

7.4. RADIATED EMISSIONS

7.4.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	$\binom{2}{}$
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38 6

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

^{**} Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

^{§15.209 (}b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

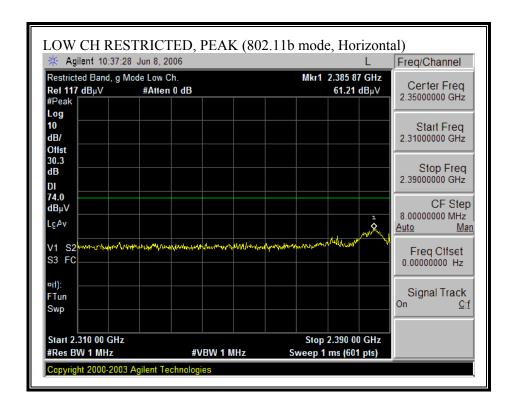
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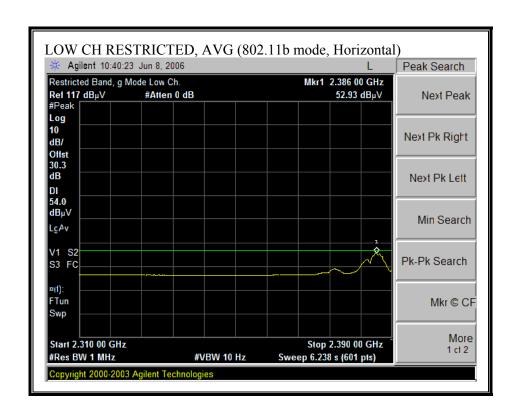
DATE: JUNE 26, 2006

FCC ID: PPD-AR5BXB72

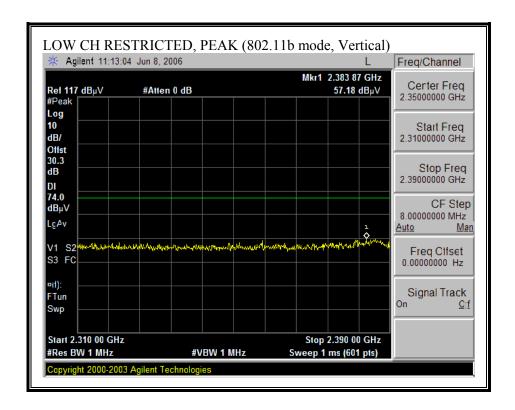
7.4.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND WITH PIFA ANTENNAS

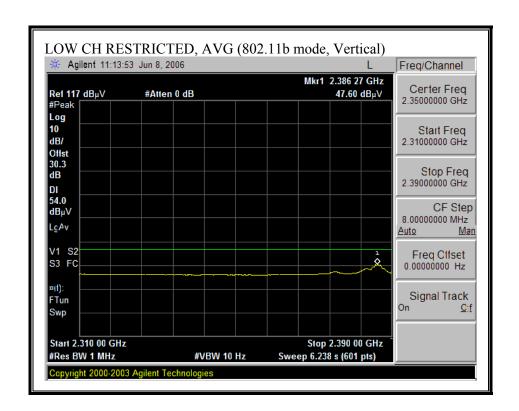
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



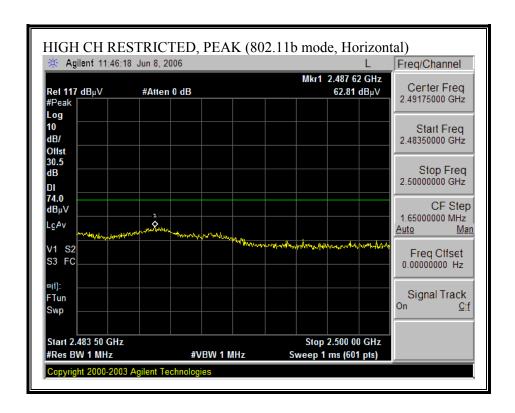


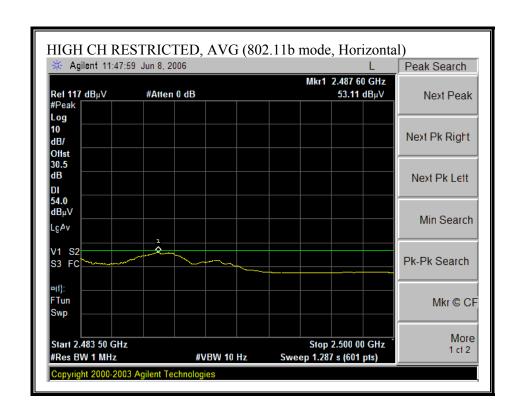
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



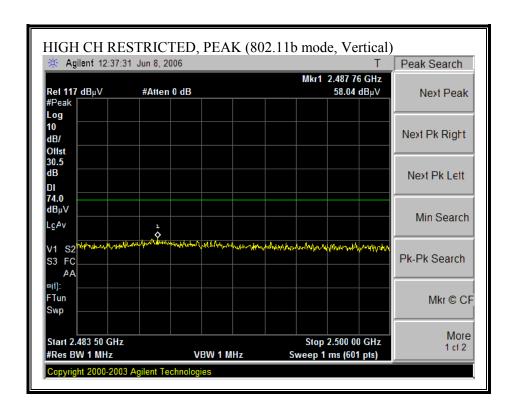


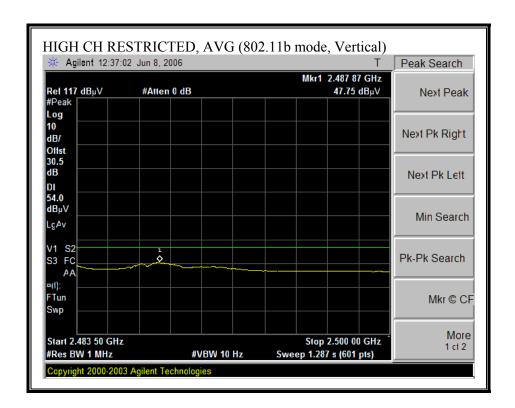
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)



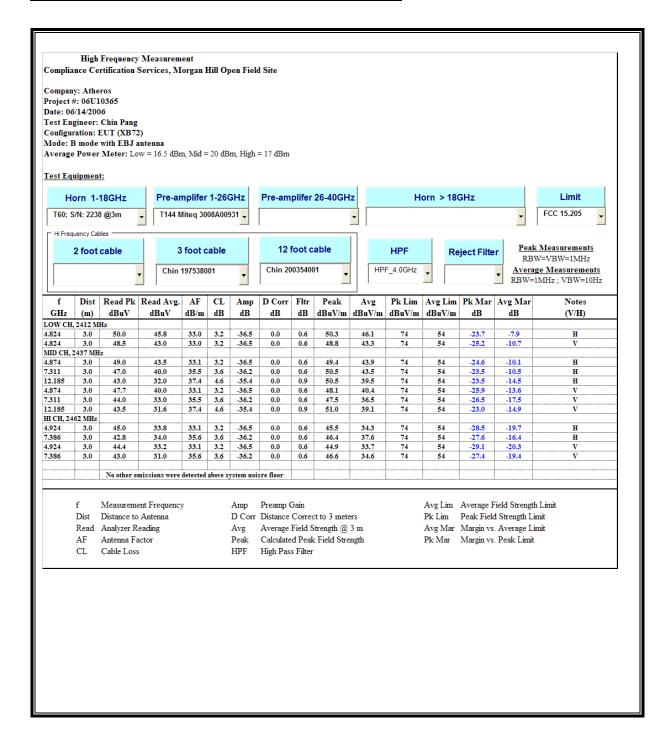


RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

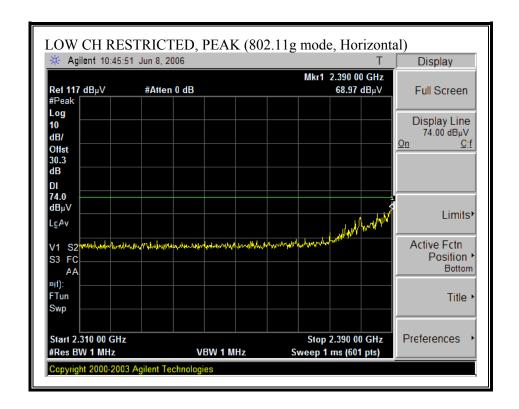


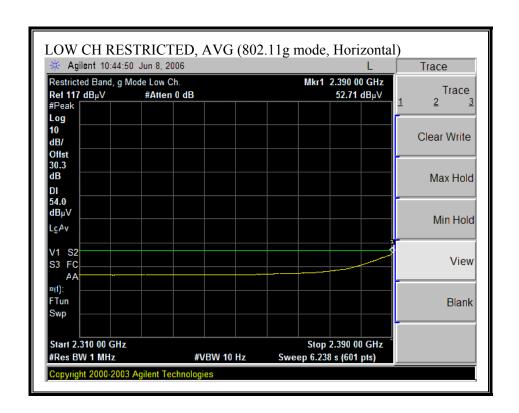


HARMONICS AND SPURIOUS EMISSIONS (802.11b MODE)

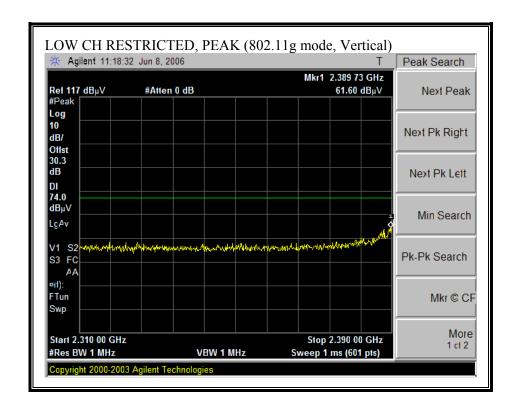


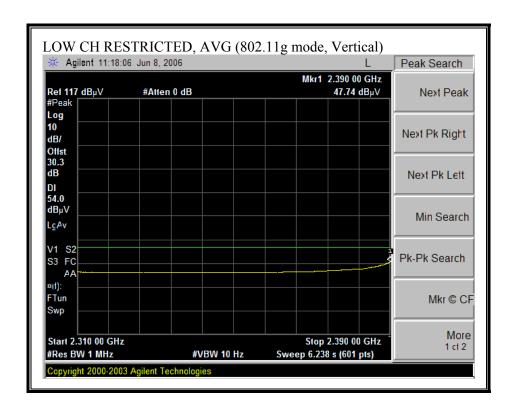
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



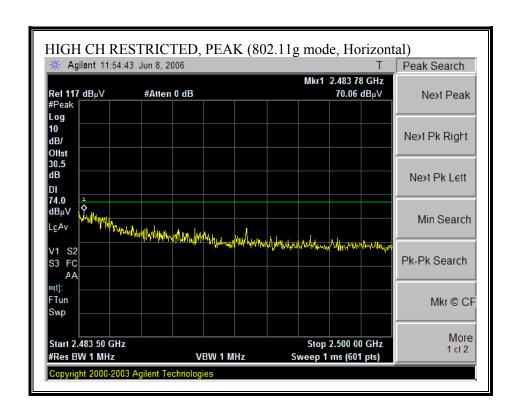


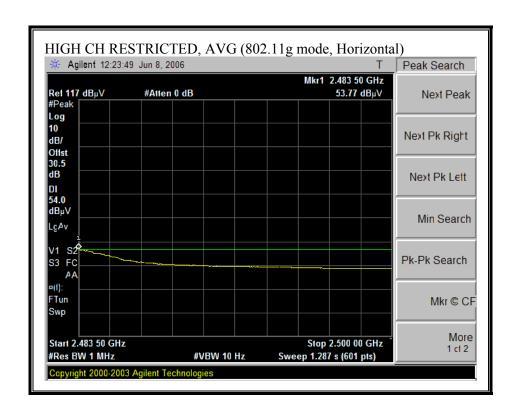
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



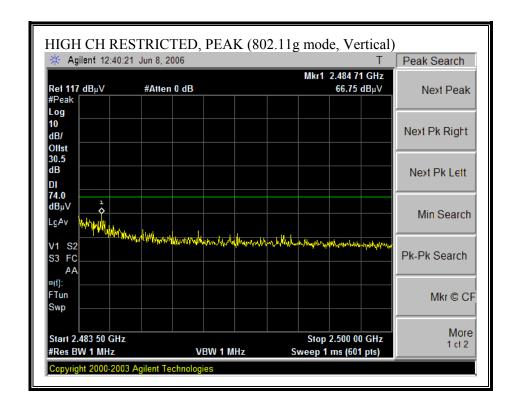


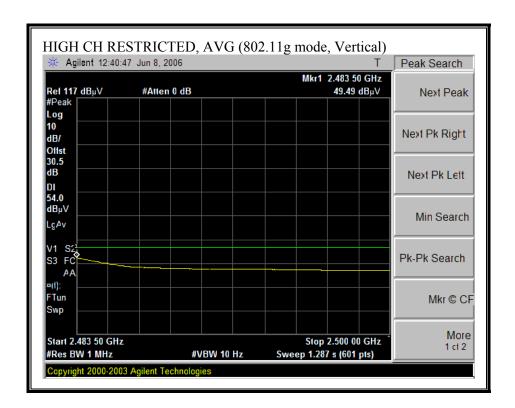
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)



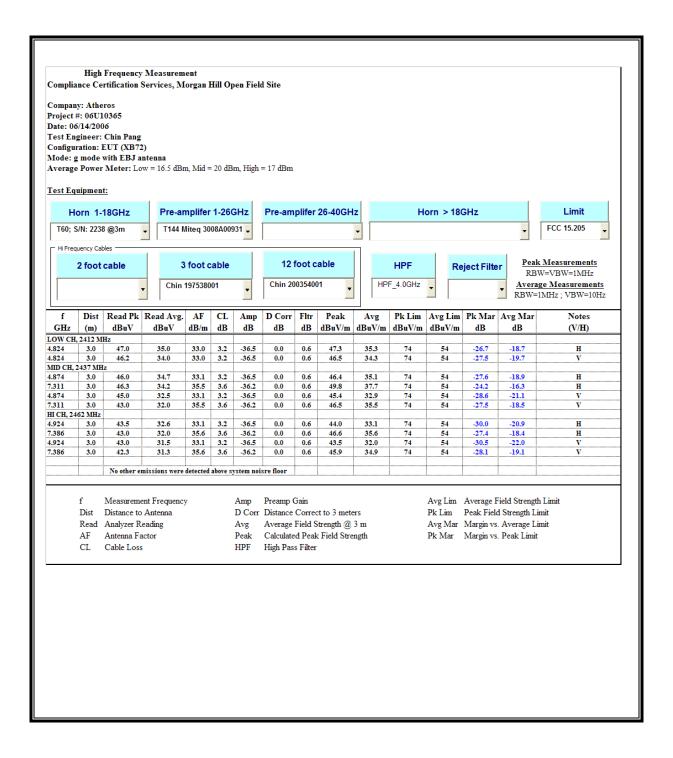


RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)

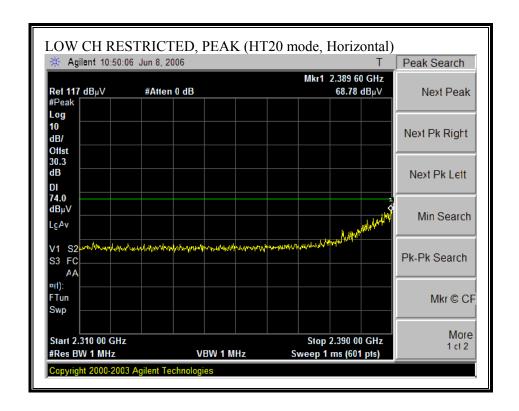


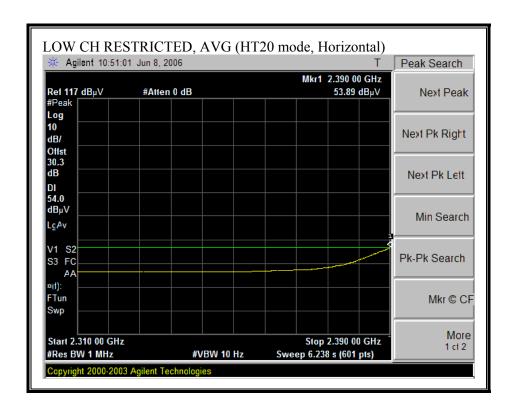


HARMONICS AND SPURIOUS EMISSIONS (802.11g MODE)

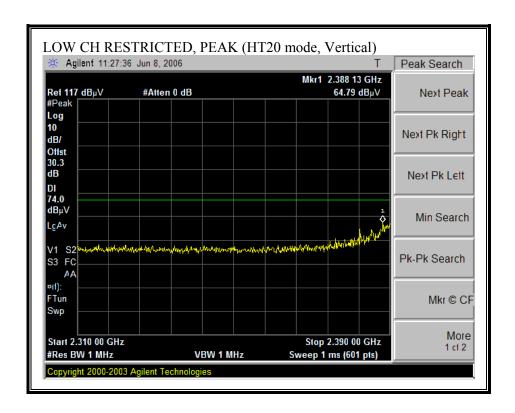


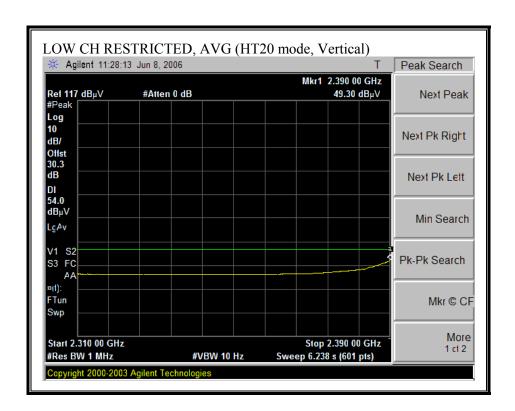
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, HORIZONTAL)



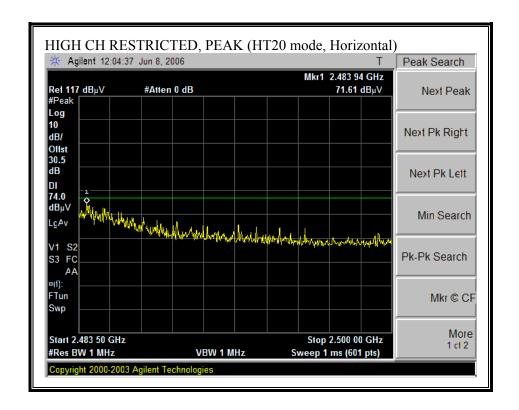


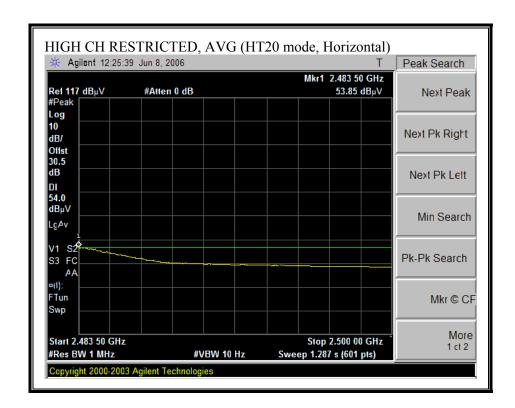
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, VERTICAL)



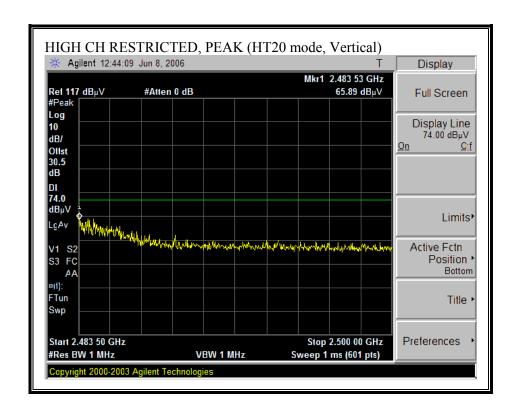


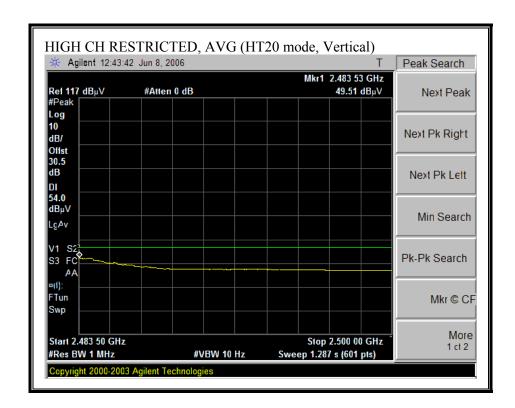
RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, HORIZONTAL)



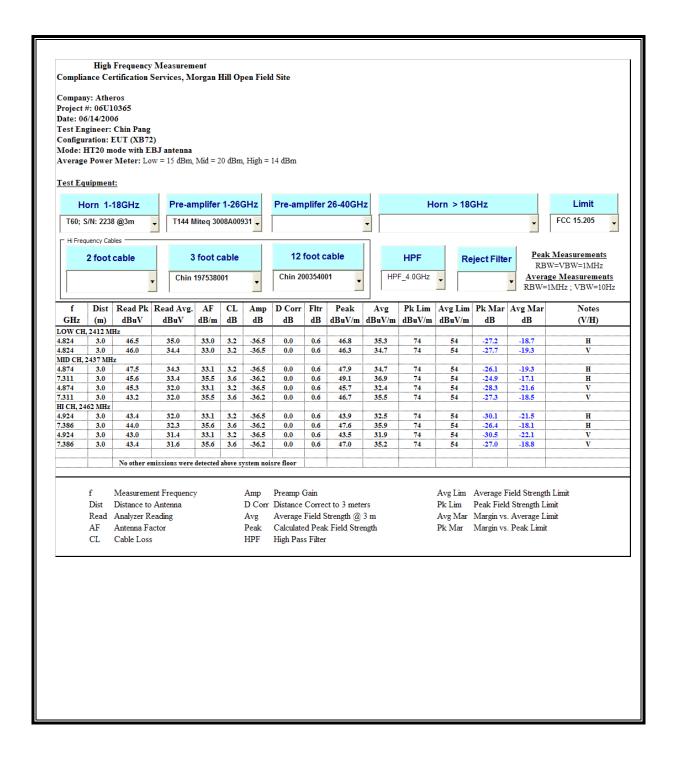


RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, VERTICAL)

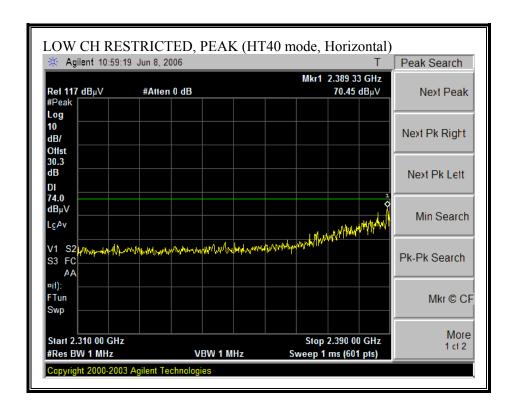


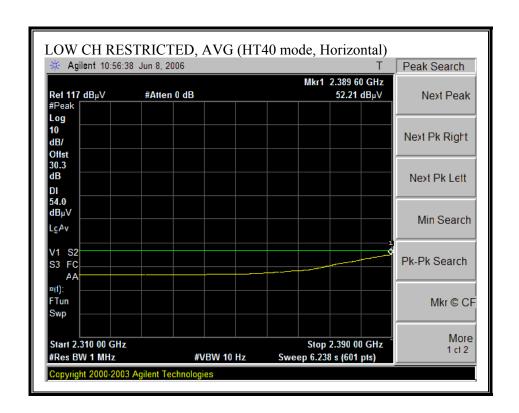


HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)

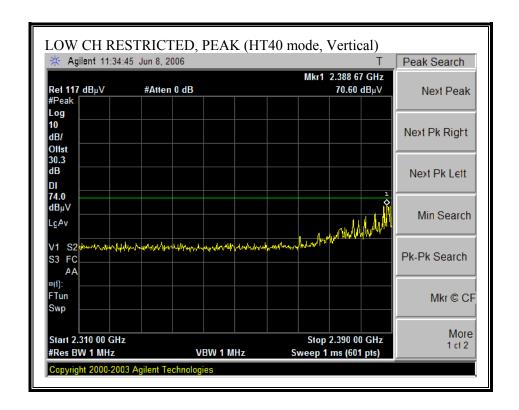


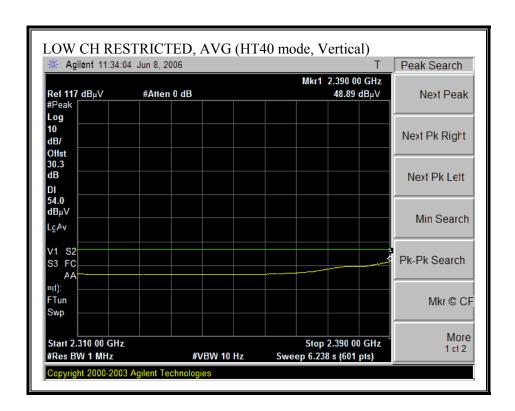
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, HORIZONTAL)



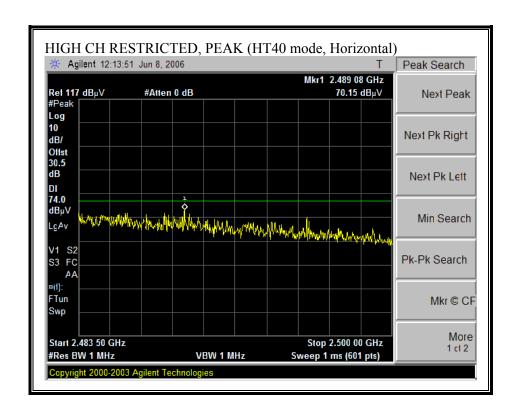


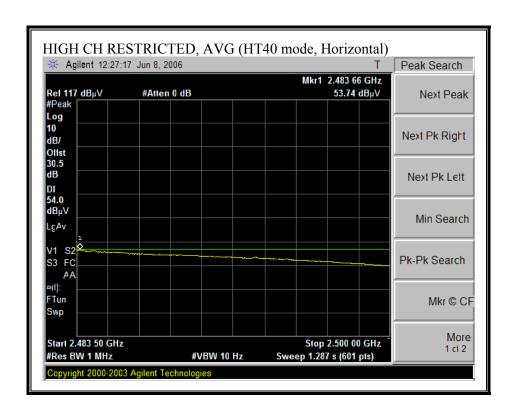
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, VERTICAL)



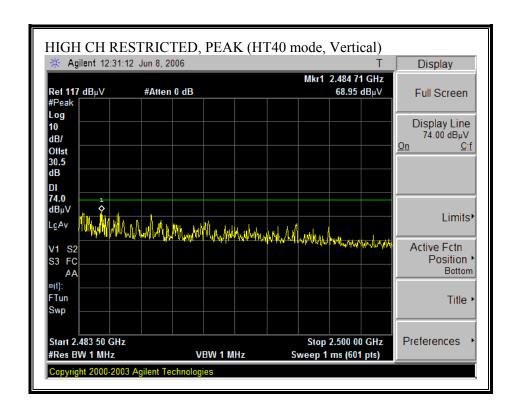


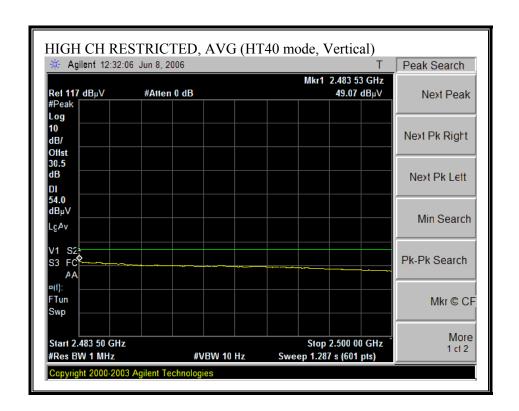
RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, HORIZONTAL)



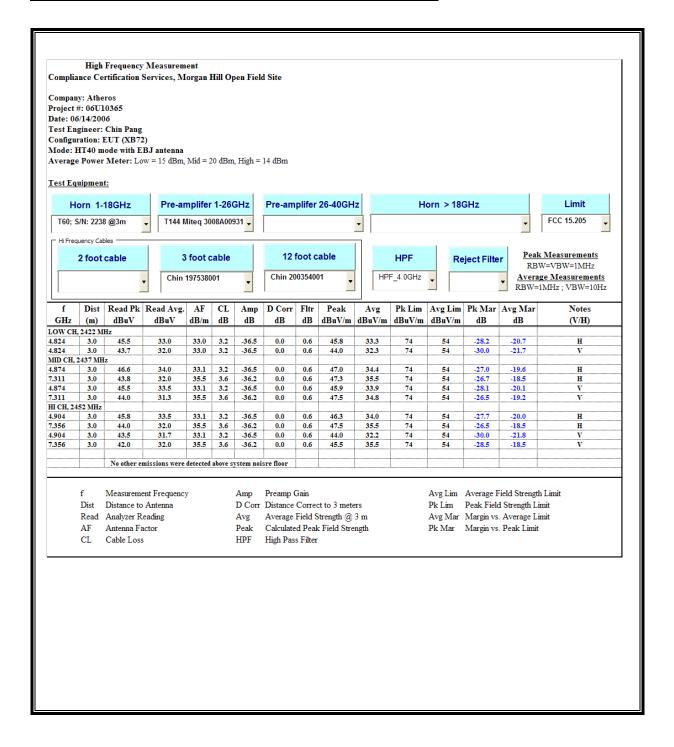


RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, VERTICAL)



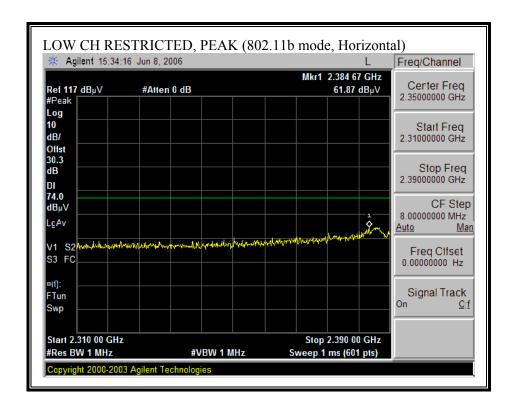


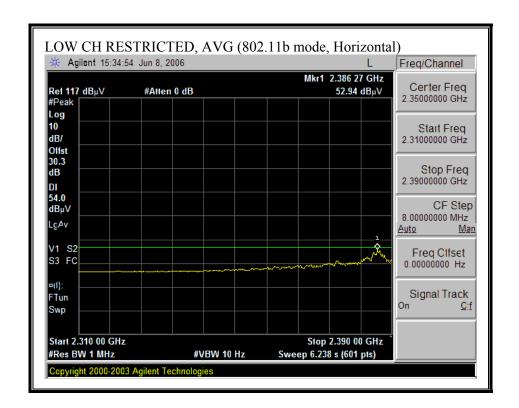
HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)



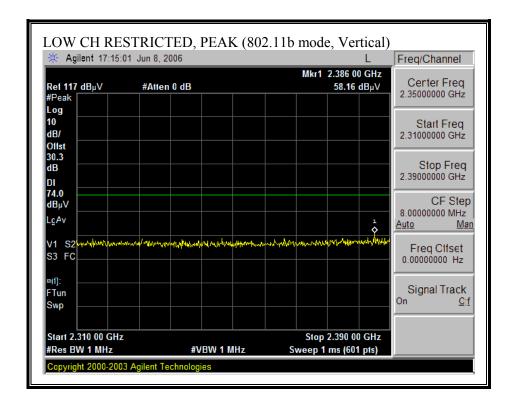
7.4.3. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND WITH MONOPOLE ANTENNAS

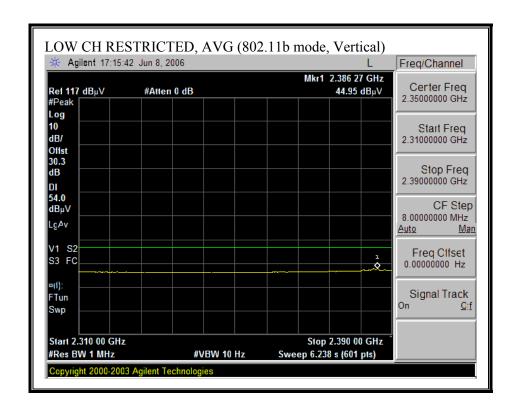
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



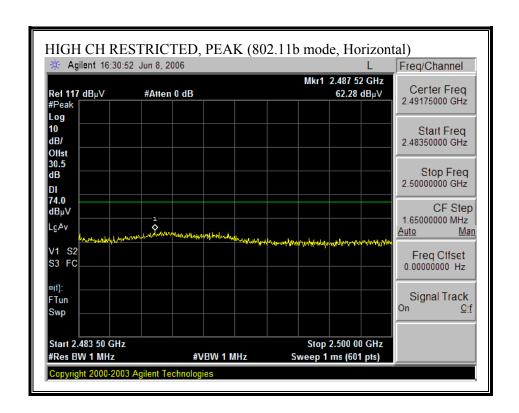


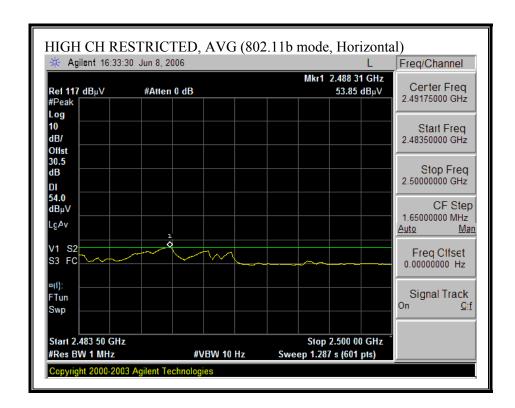
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



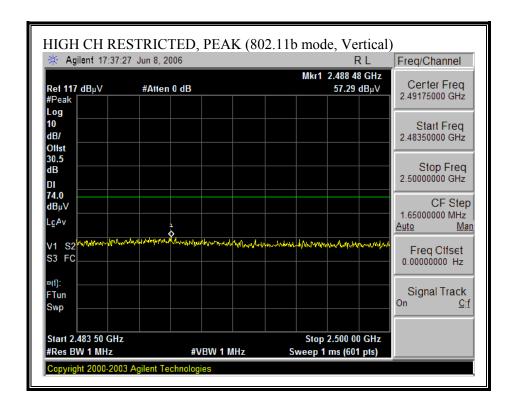


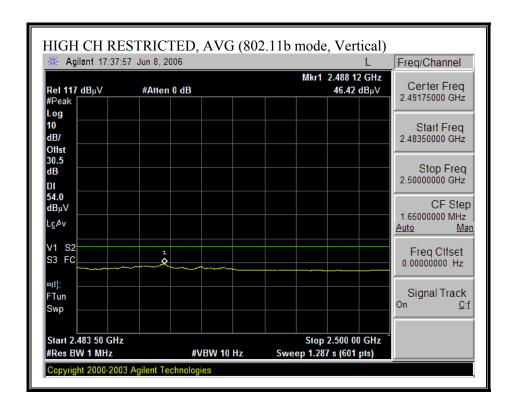
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)



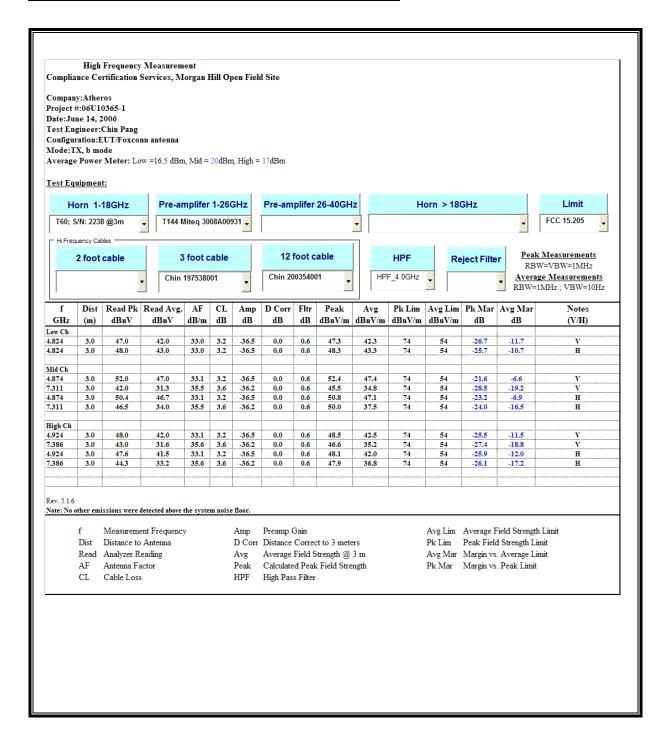


RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

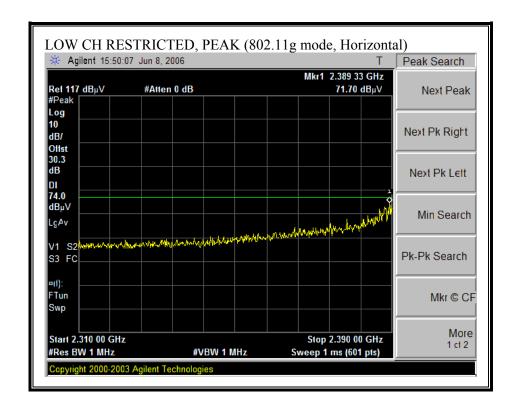


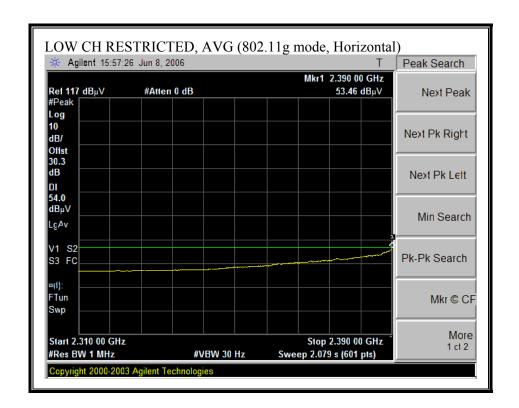


HARMONICS AND SPURIOUS EMISSIONS (802.11b MODE)

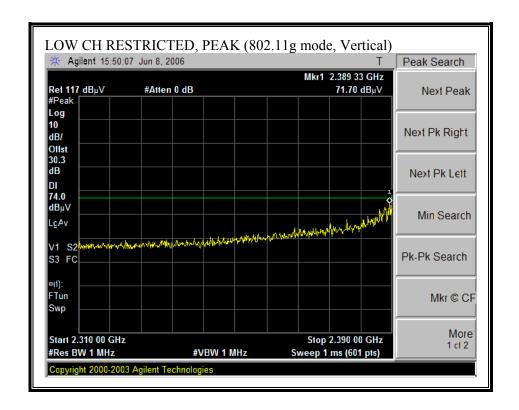


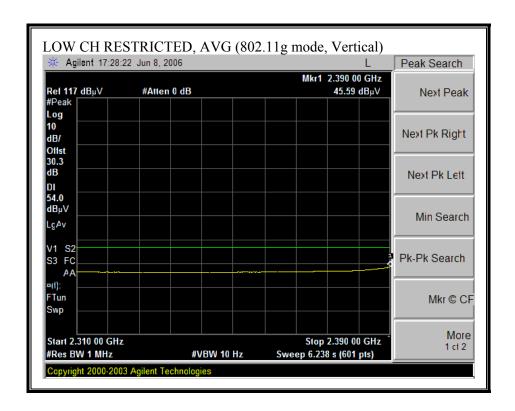
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



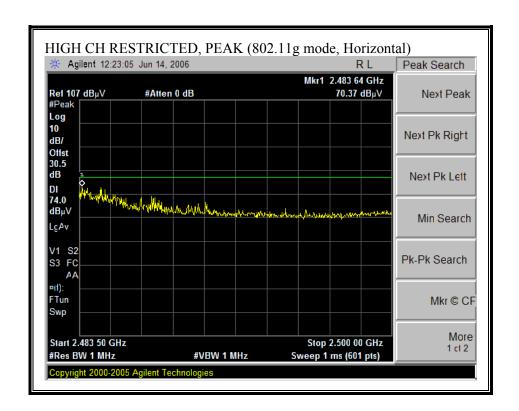


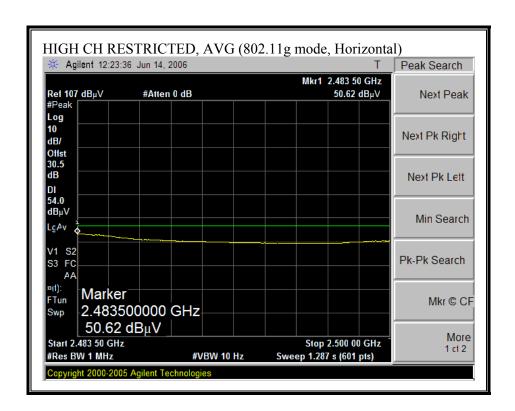
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



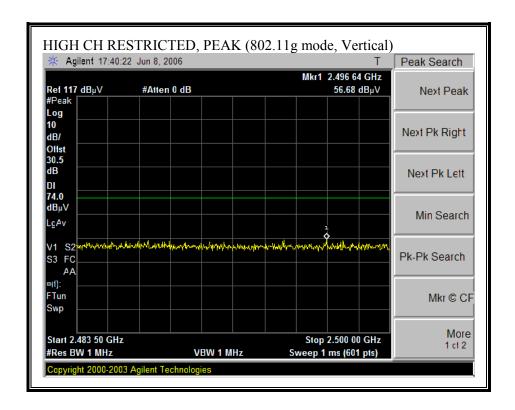


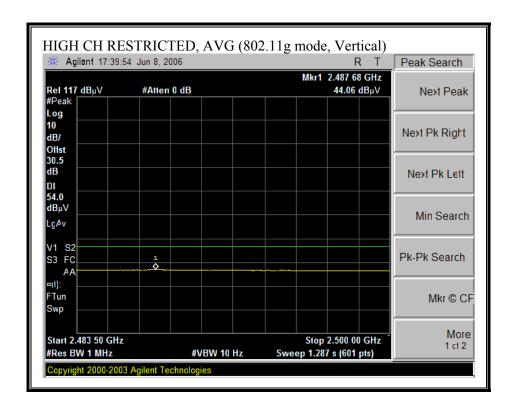
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)



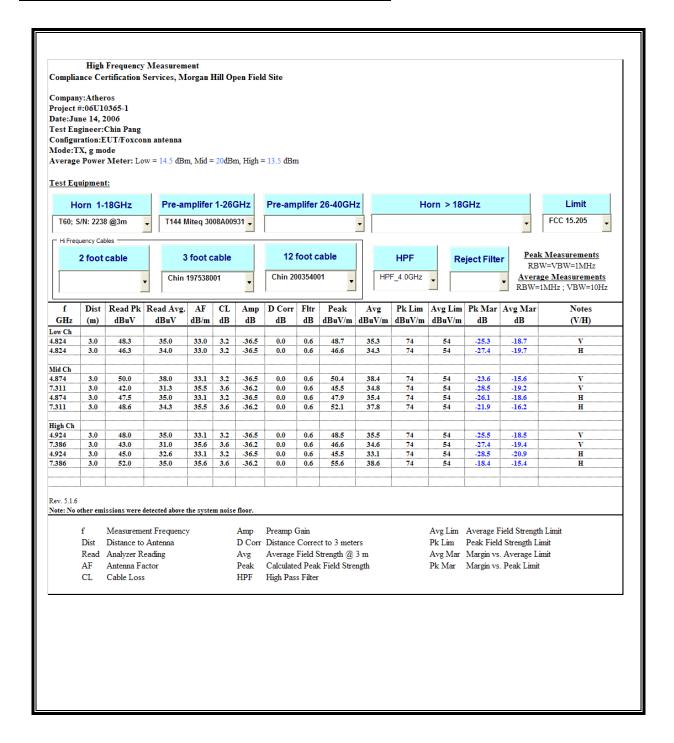


RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)

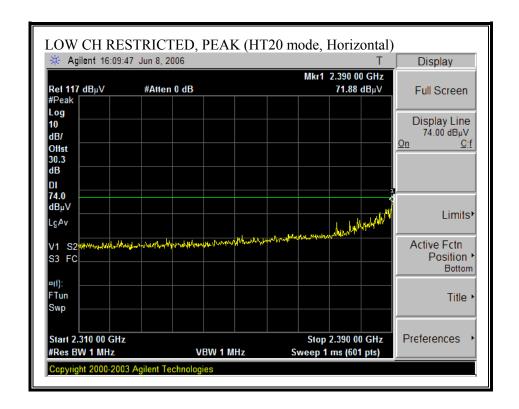


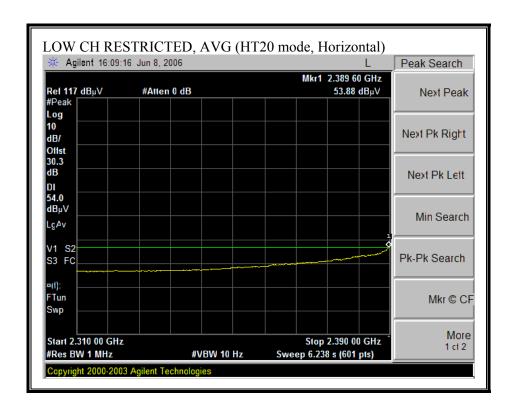


HARMONICS AND SPURIOUS EMISSIONS (802.11g MODE)

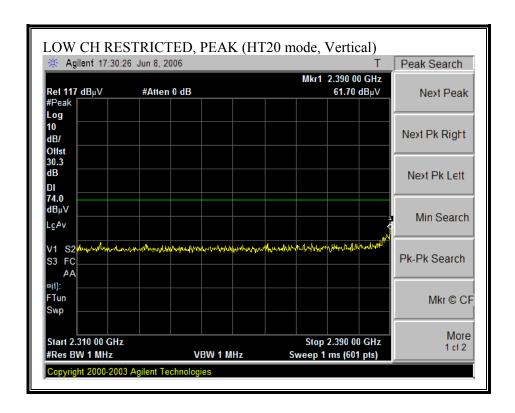


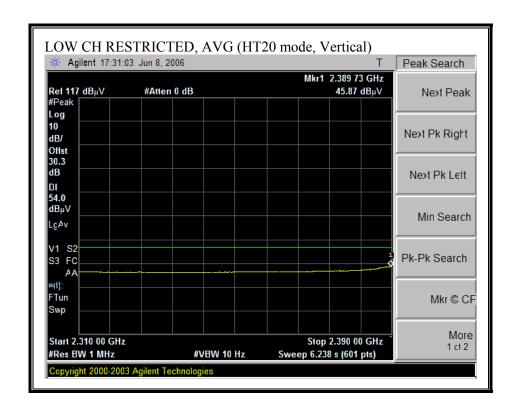
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, HORIZONTAL)



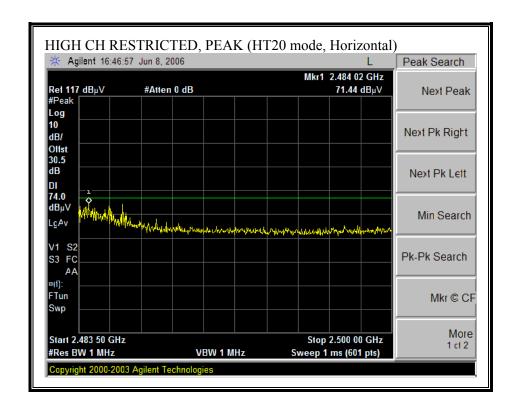


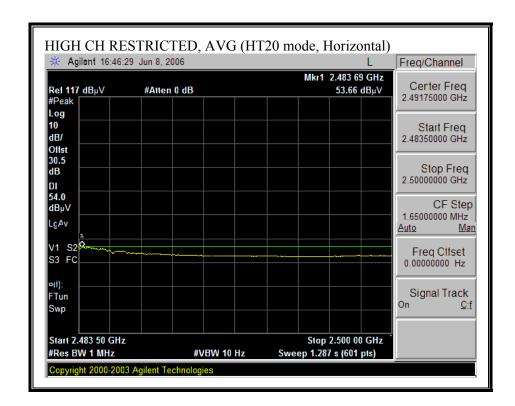
RESTRICTED BANDEDGE (HT20, LOW CHANNEL, VERTICAL)



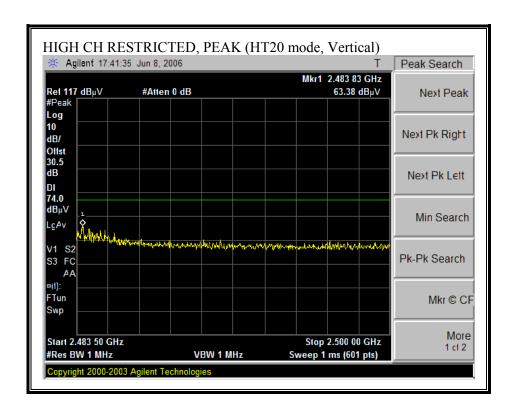


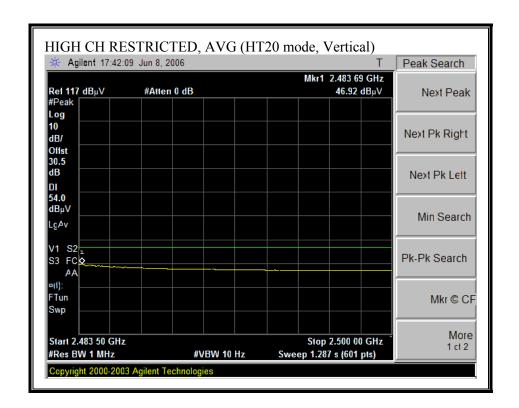
RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, HORIZONTAL)



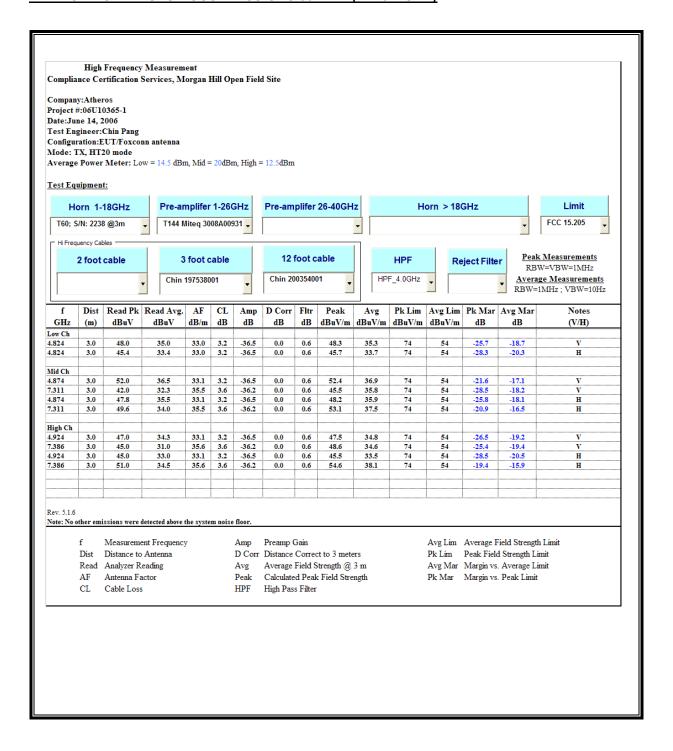


RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, VERTICAL)

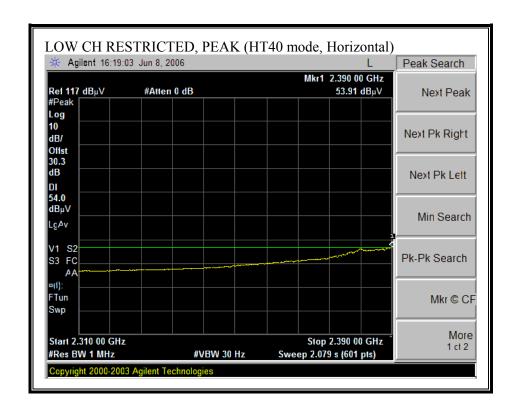


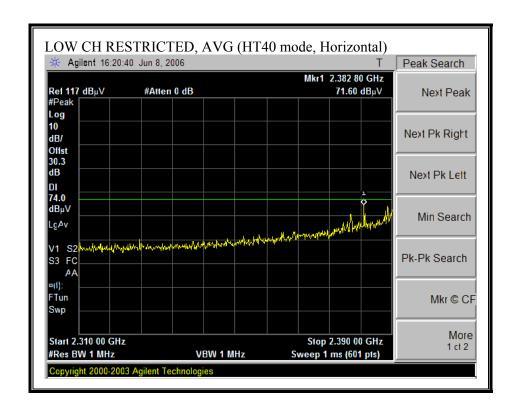


HARMONICS AND SPURIOUS EMISSIONS 802.11n (HT20 MODE)

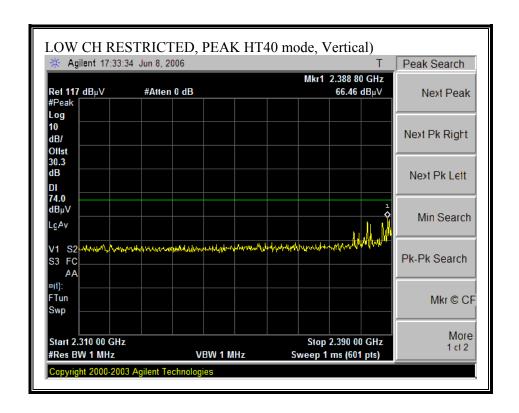


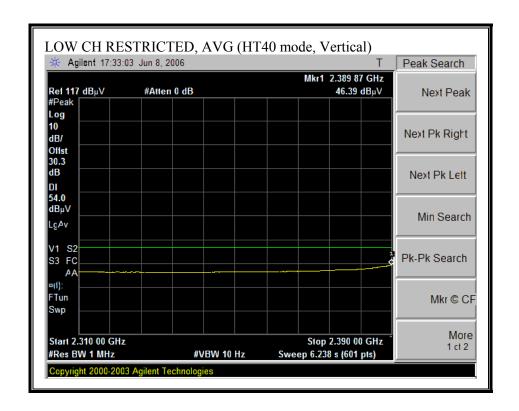
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, HORIZONTAL)



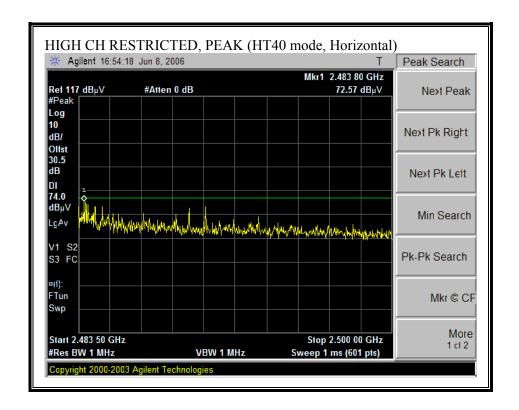


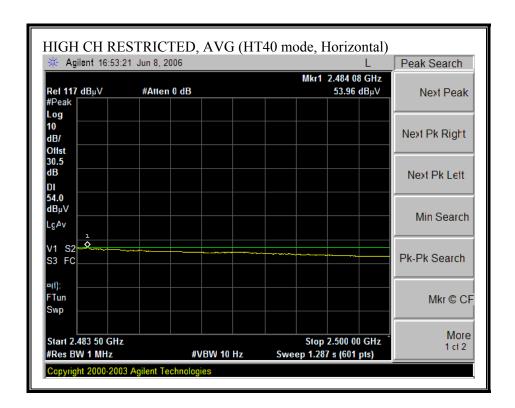
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, VERTICAL)



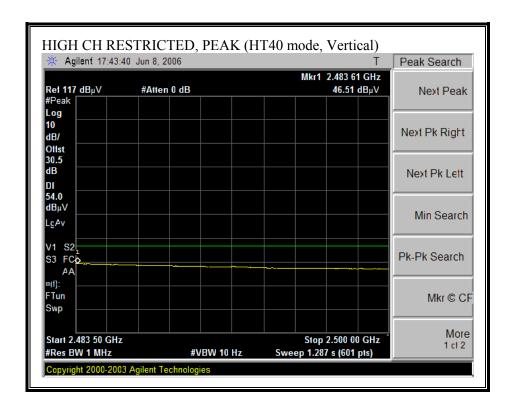


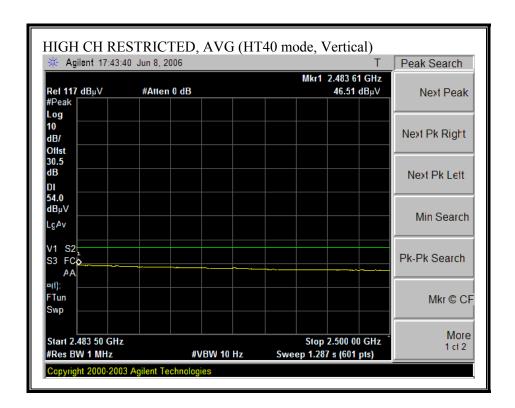
RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, HORIZONTAL)



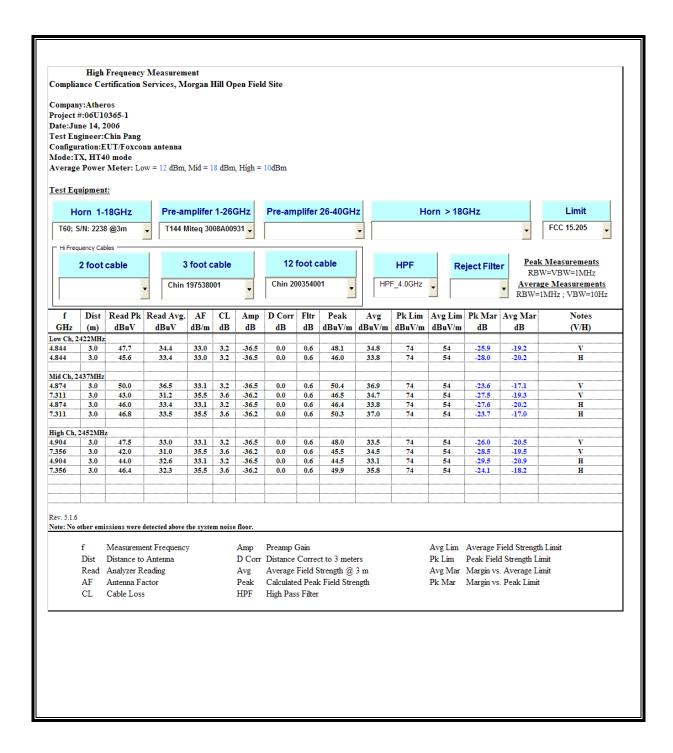


RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, VERTICAL)



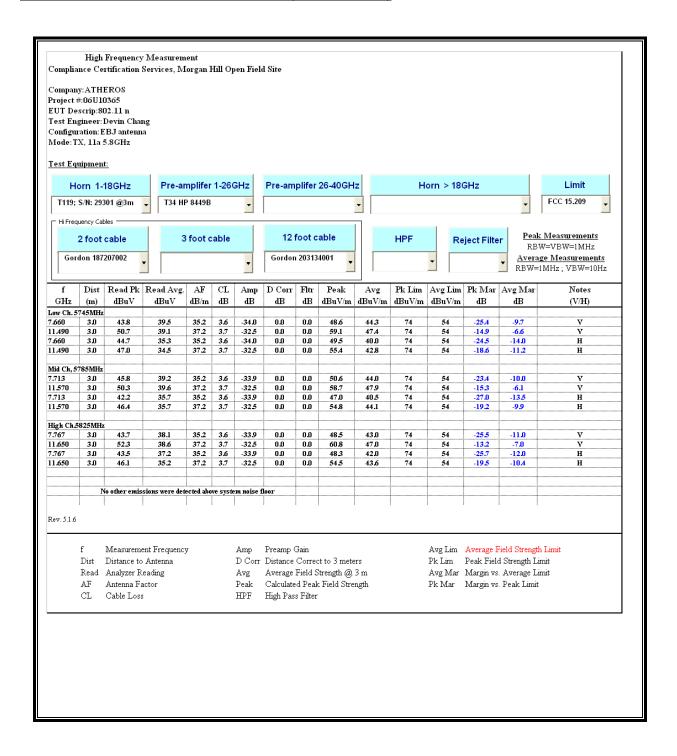


HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

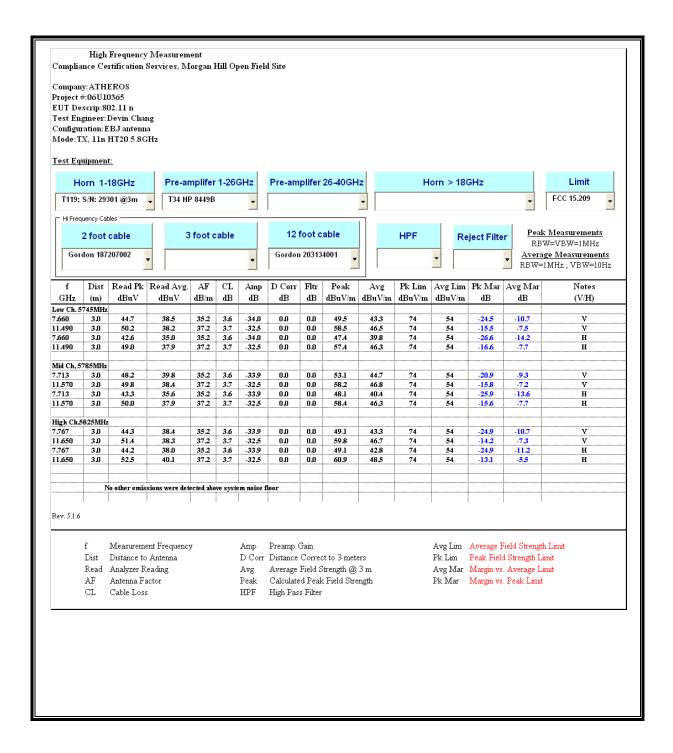


7.4.4. TRANSMITTER ABOVE 1 GHz FOR 5725 TO 5850 MHz BAND WITH **PIFA ANTENNAS**

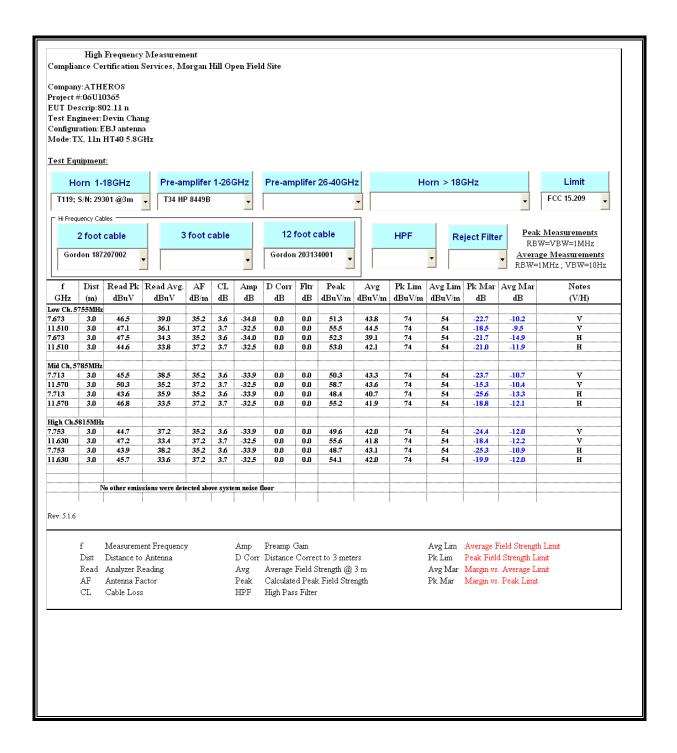
HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)



HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)

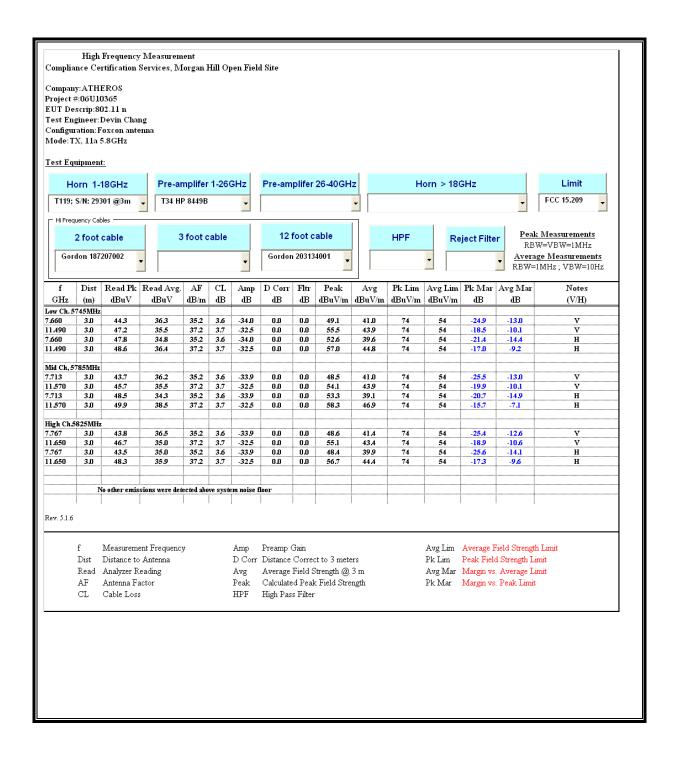


HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

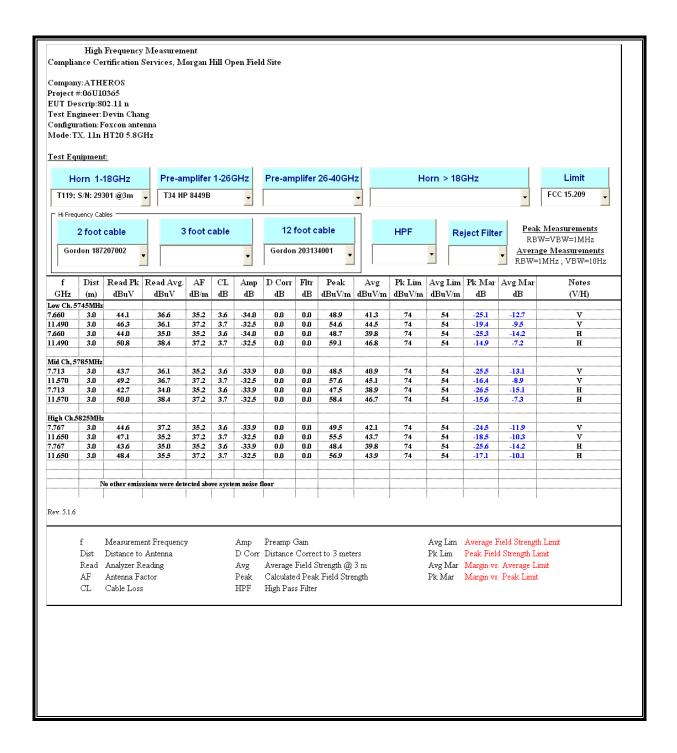


7.4.5. TRANSMITTER ABOVE 1 GHz FOR 5725 TO 5850 MHz BAND WITH MOMOPOLE ANTENNAS

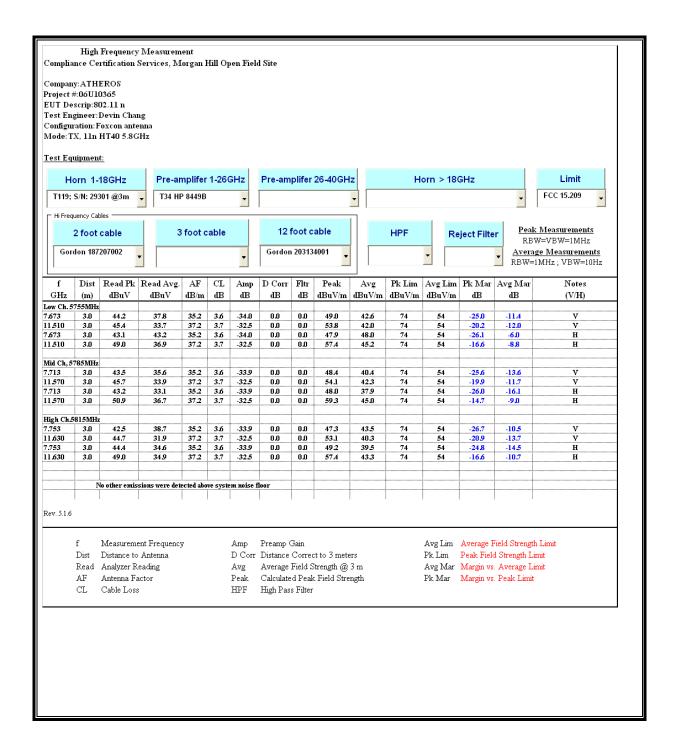
HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)



HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)



HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)



7.4.6. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz WITH PIFA **ANTENNAS**

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL DATA

Condition: FCC CLASS-B HORIZONTAL Test Operator: : Chin Pang Company: : Atheros Project #: : 06U10365 Model: : AR5BXB72

Configuration: : EUT/Laptop

Mode of Operation: TX (b mode Mid Ch with ED4 Antennas)

						Page:	1
	Read		Limit	Over			
Freq	Level Factor	Level	Line	Limit	Remark		

	MHZ	dBuV	dB	$\overline{\mathtt{d}\mathtt{BuV/m}}$	dBu√/m	dB	
1	251.160	25.63	13.93	39.56	46.00	-6.44	Peak
2	373.380	21.29	17.46	38.75	46.00	-7.25	Peak
3	456.800	19.55	19.36	38.91	46.00	-7.09	Peak
4	609.090	22.14	21.66	43.80	46.00	-2.20	Peak
5	708.030	15.71	23.23	38.94	46.00	-7.06	Peak
6	807.940	17.99	24.69	42.68	46.00	-3.32	Peak

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL DATA

Condition: FCC CLASS-B VERTICAL
Test Operator: : Chin Pang
Company: : Atheros
Project #: : 06U10365
Model: : AR5BXB72
Configuration: : EUT/Laptop

Mode of Operation: TX (b mode Mid Ch with ED4 Antennas)

Late	 _

		Read			Limit	over	
	Freq	Level	Factor	Level	Line	Limit	Remark
	MHZ	dBuV	dB	$\overline{\mathtt{d}\mathtt{BuV/m}}$	dBuV/m	dB	
1	48.430	28.04	10.29	38.33	40.00	-1.67	Peak
2	177.440	25.04	13.11	38.15	43.50	-5.35	Peak
3	371.440	22.16	17.44	39.60	46.00	-6.40	Peak
4	407.330	21.65	18.21	39.86	46.00	-6.14	Peak
5	567.380	19.12	21.12	40.24	46.00	-5.76	Peak
6	806.000	16.55	24.64	41.19	46.00	-4.81	Peak

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7.4.7. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz WITH MONOPOLE ANTENNAS

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL

HORIZONTAL DATA

Condition: FCC CLASS-B HORIZONTAL
Test Operator: : Chin Pang
Company: : Atheros
Project #: : 06U10365
Model: : AR5BXB72
Configuration: : EUT/Laptop

Mode of Operation: TX (b mode Mid Ch with Foxconn Antenna)

Page:	1	
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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	$\overline{\mathtt{dBuV/m}}$	$\overline{\mathtt{dBuV}/\mathtt{m}}$	dB	
1	150.280	22.34	14.10	36.44	43.50	-7.06	Peak
2	239.520	29.20	13.47	42.67	46.00	-3.33	QP
3	239.520	31.57	13.47	45.03	46.00	-0.97	Peak
4	303.540	27.70	15.75	43.45	46.00	-2.55	QP
5	303.540	28.71	15.75	44.46	46.00	-1.54	Peak
6	371.440	26.20	17.44	43.64	46.00	-2.36	QP
7	371.440	27.96	17.44	45.40	46.00	-0.60	Peak
8	405.390	23.83	18.18	42.01	46.00	-3.99	Peak
9	606.180	18.99	21.63	40.62	46.00	-5.38	Peak
10	707.060	16.80	23.20	40.00	46.00	-6.00	Peak
11	853.530	17.17	25.30	42.47	46.00	-3.53	Peak

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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL

VERTICAL DATA

Condition: FCC CLASS-B VERTICAL
Test Operator: : Chin Pang
Company: : Atheros
Project #: : 06U10365
Model: : AR5BXB72
Configuration: : EUT/Laptop

Mode of Operation: TX (b mode Mid Ch with Foxconn Antenna)

Pag	
Fals	 _

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHZ	dBuV	dB	$\overline{dBuV/m}$	$\overline{\mathtt{dBuV}/\mathtt{m}}$	dB	
1	48.430	26.78	10.29	37.07	40.00	-2.93	Peak
2	305.480	24.68	15.80	40.48	46.00	-5.52	Peak
3	373.380	22.00	17.46	39.46	46.00	-6.54	Peak
4	403.450	21.55	18.12	39.67	46.00	-6.33	Peak
5	606.180	16.46	21.63	38.09	46.00	-7.91	Peak
6	706.090	17.19	23.17	40.36	46.00	-5.64	Peak
7	924.340	14.47	26.20	40.67	46.00	-5.33	Peak

7.5. **POWERLINE CONDUCTED EMISSIONS**

LIMIT

§15.207 (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal.

The lower limit applies at the boundary between the frequency ranges.

Frequency of Emission (MHz)	Conducted I	imit (dBuV)
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The resolution bandwidth is set to 9 kHz for both peak detection and quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Line conducted data is recorded for both NEUTRAL and HOT lines.

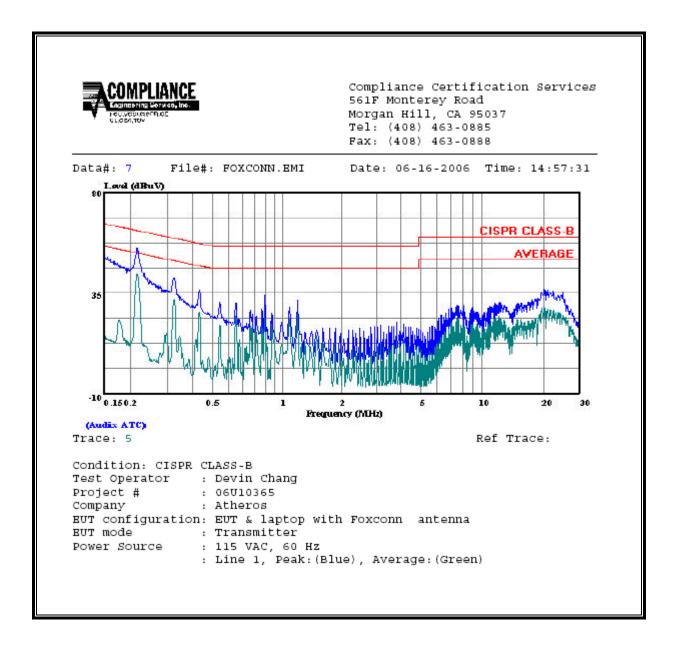
RESULTS

No non-compliance noted:

6 WORST EMISSIONS

Freg.		Reading		Closs	Limit	EN B	Mars	zin	Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV		AV (dB)	L1 / L2
0.22	54.94		42.83	0.00	62.82	52.82	-7.88	-9.99	L1
0.33	45.00		31.89	0.00	59.45	49.45	-14.45	-17.56	L1
0.89	33.94		33.94	0.00	56.00	46.00	-22.06	-12.06	L1
0.22	50.22		39.72	0.00	62.82	52.82	-12.60	-13.10	L2
0.33	39.44		30.03	0.00	59.45	49.45	-20.01	-19.42	L2
0.89	34.90		33.89	0.00	56.00	46.00	-21.10	-12.11	L2
6 Worst I) Data								I

LINE 1 RESULTS



LINE 2 RESULTS

