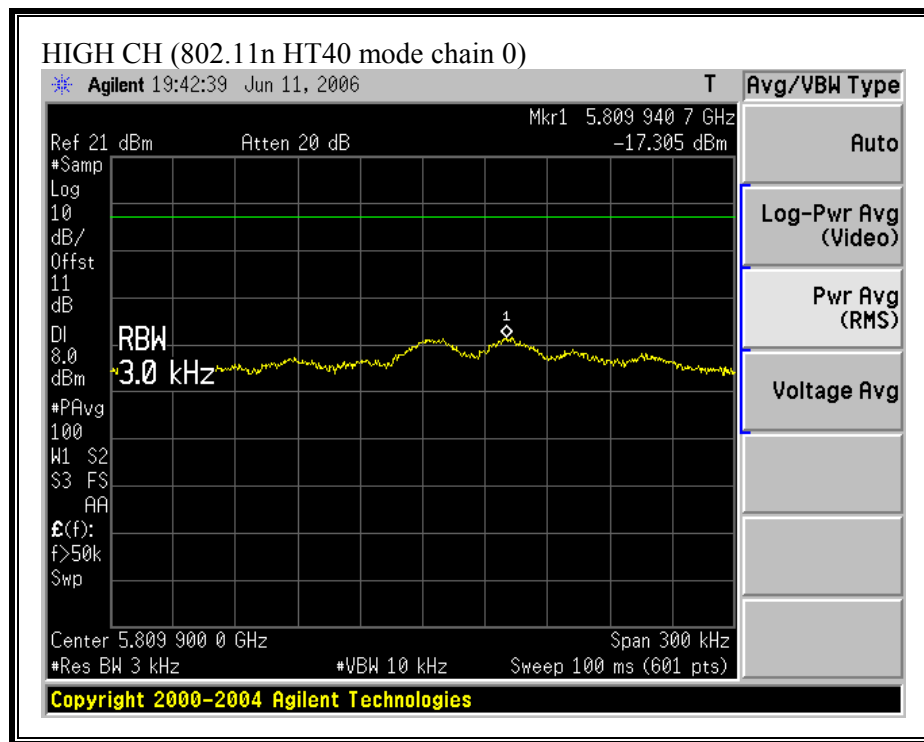
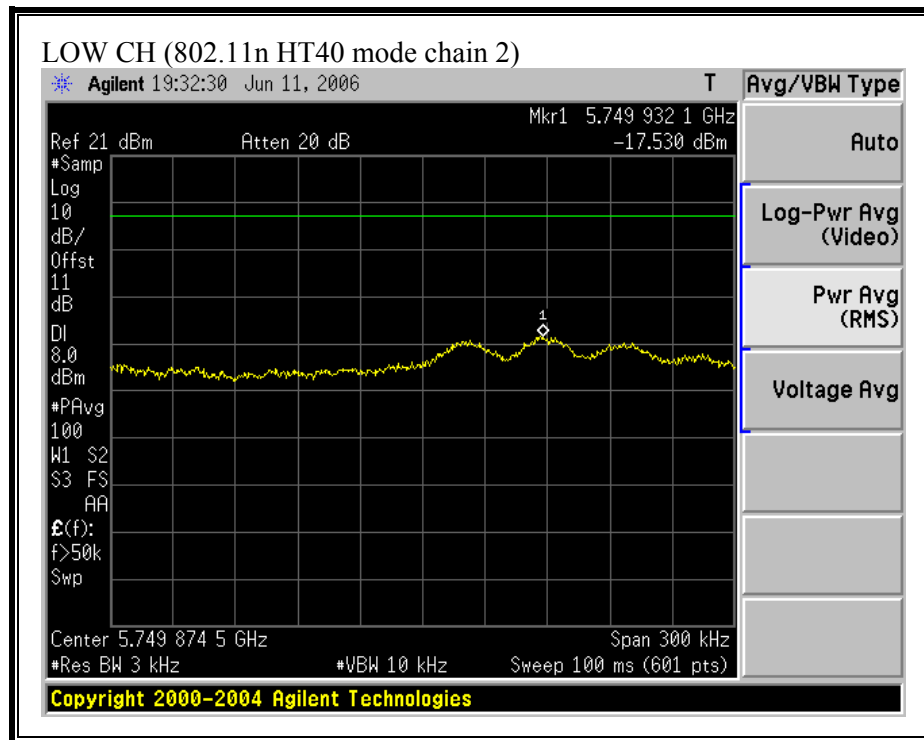
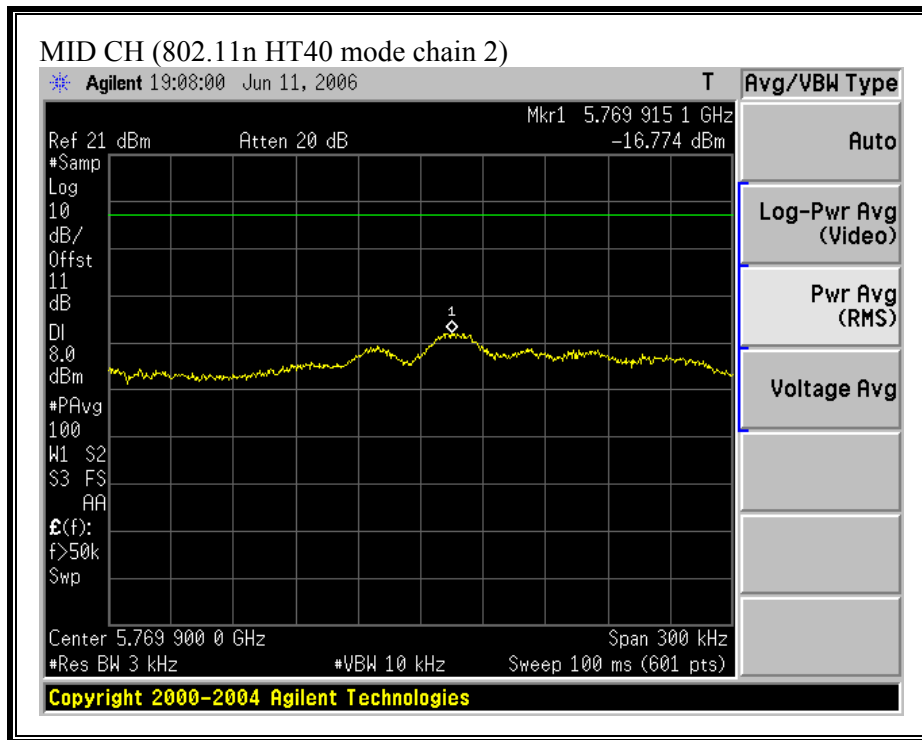
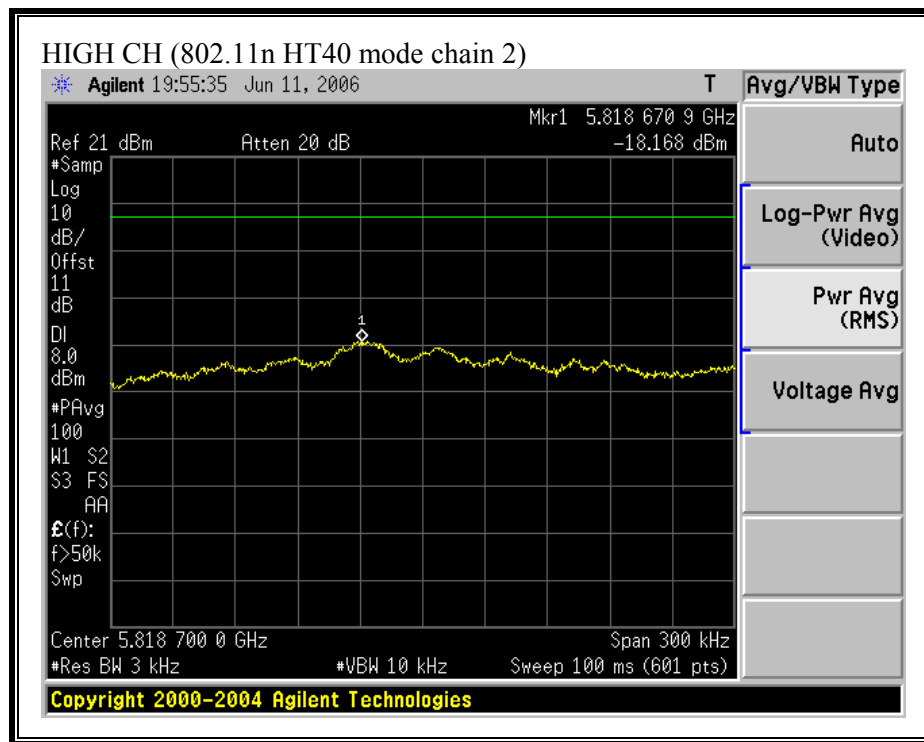




(802.11 HT40 MODE CHAIN 2)







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 dB.

TEST PROCEDURE

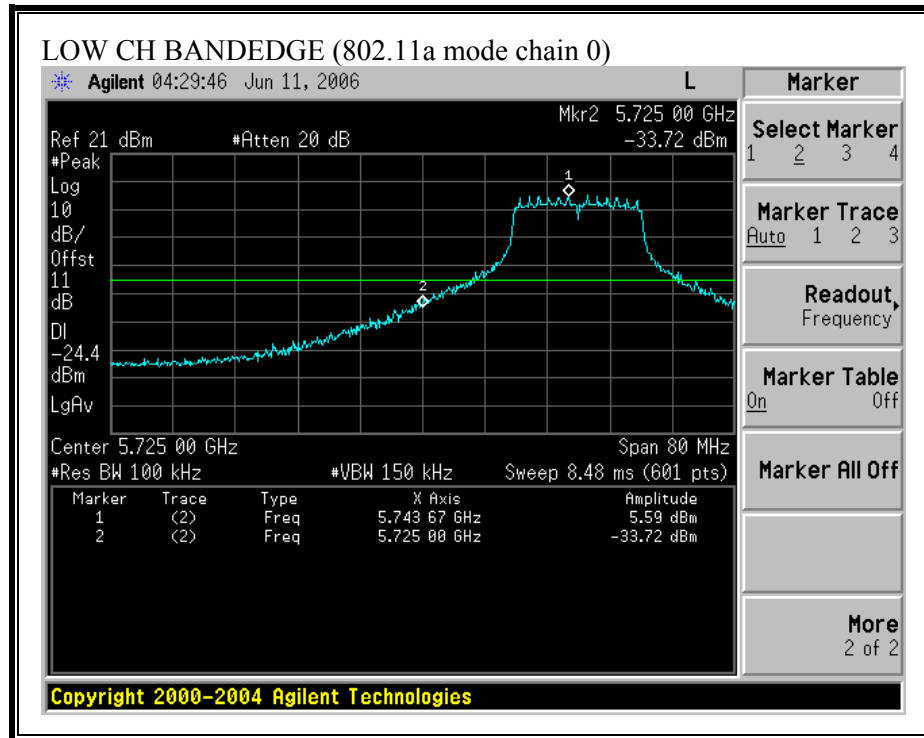
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 150 kHz.

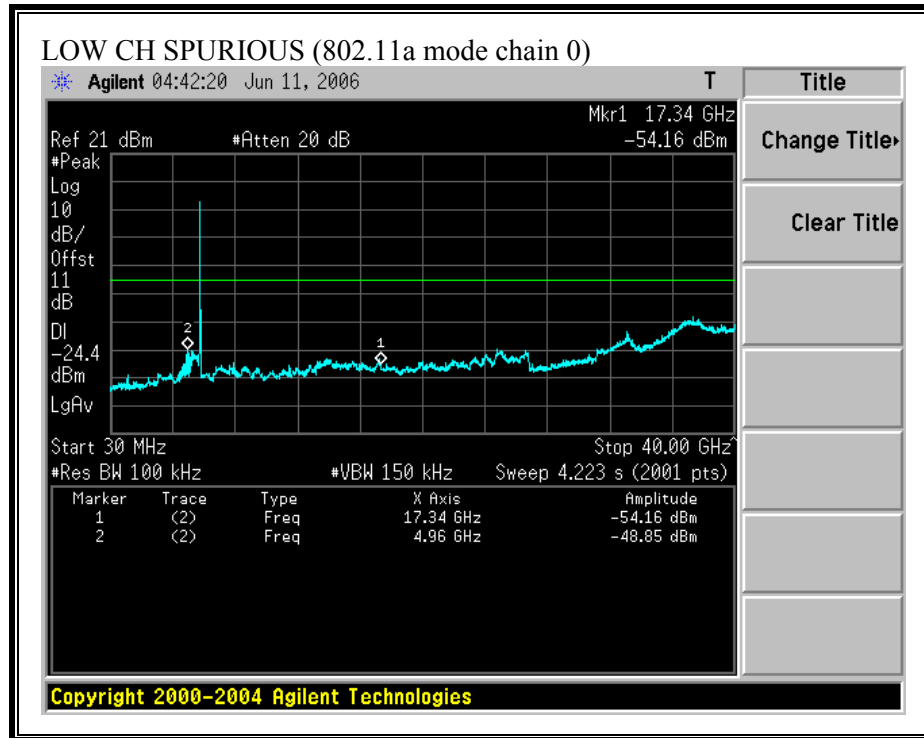
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

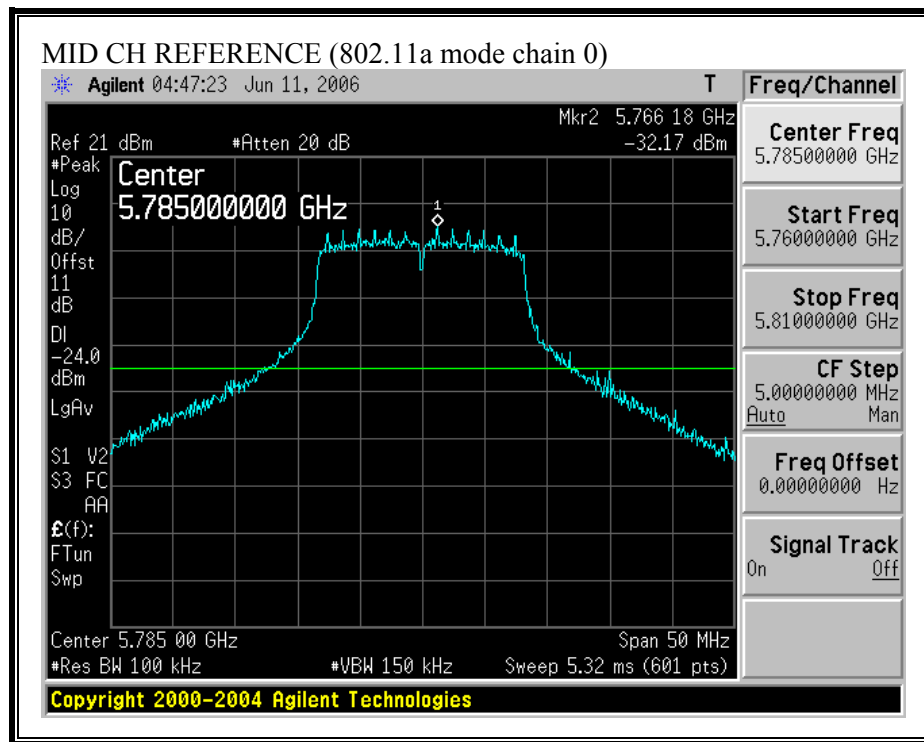
RESULTS

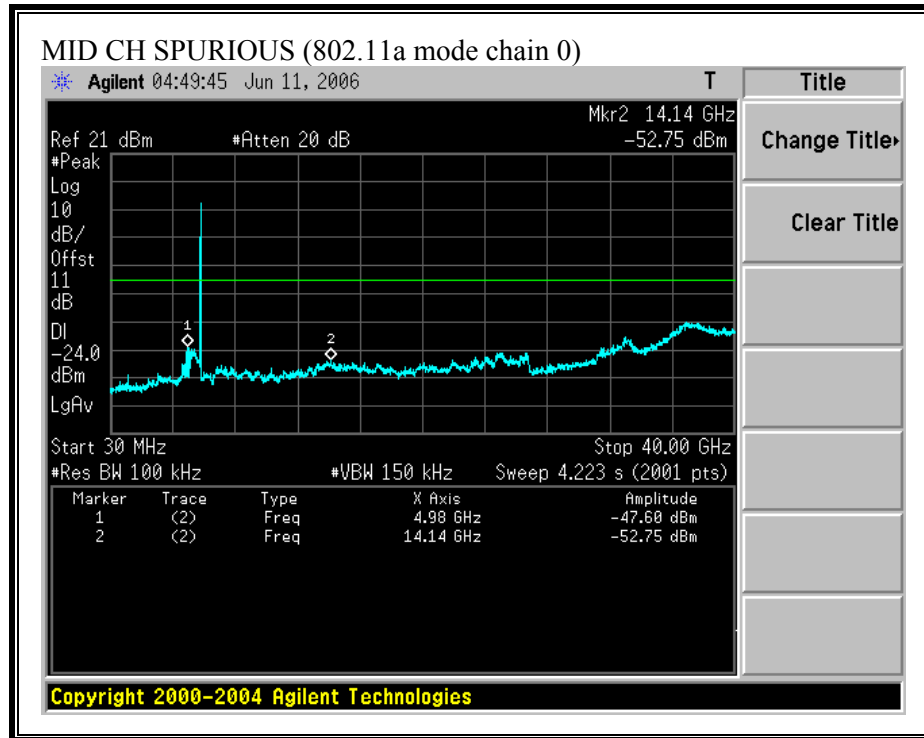
No non-compliance noted:

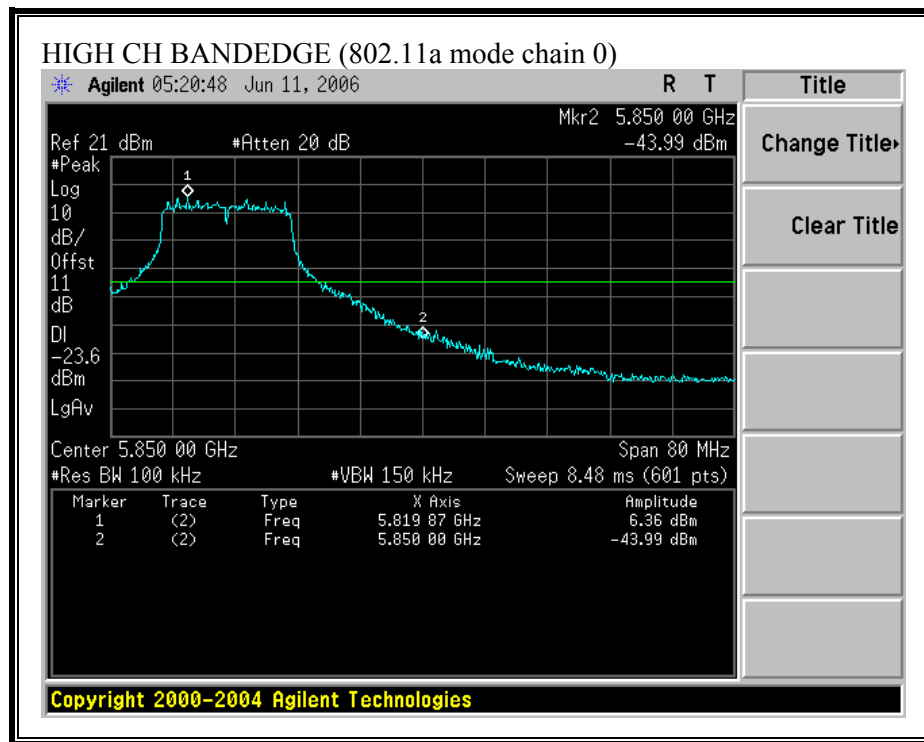
SPURIOUS EMISSIONS (802.11a MODE CHAIN 0)

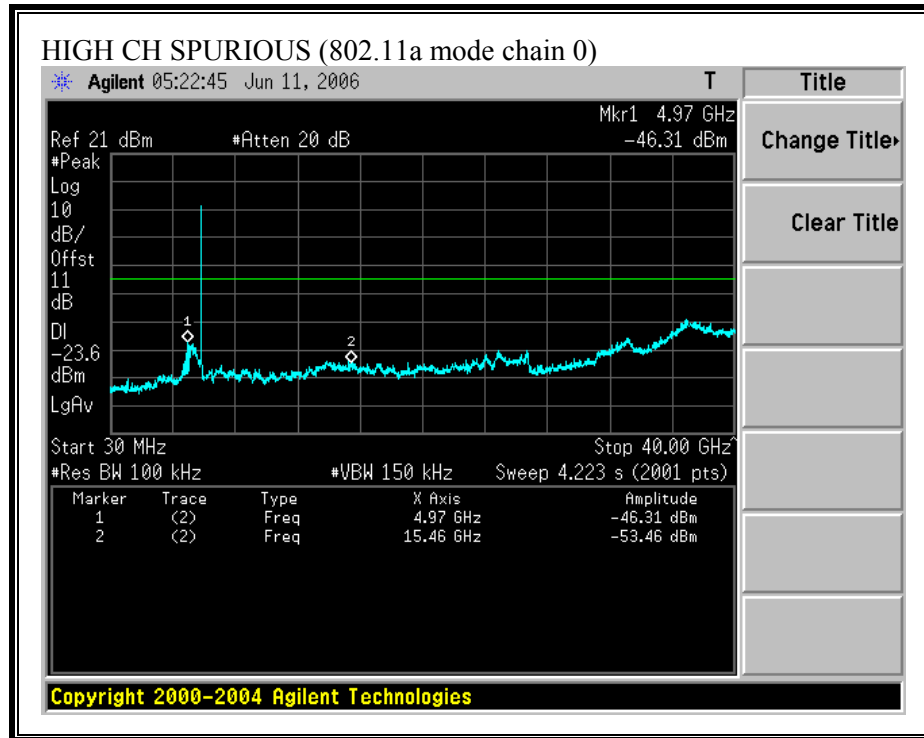




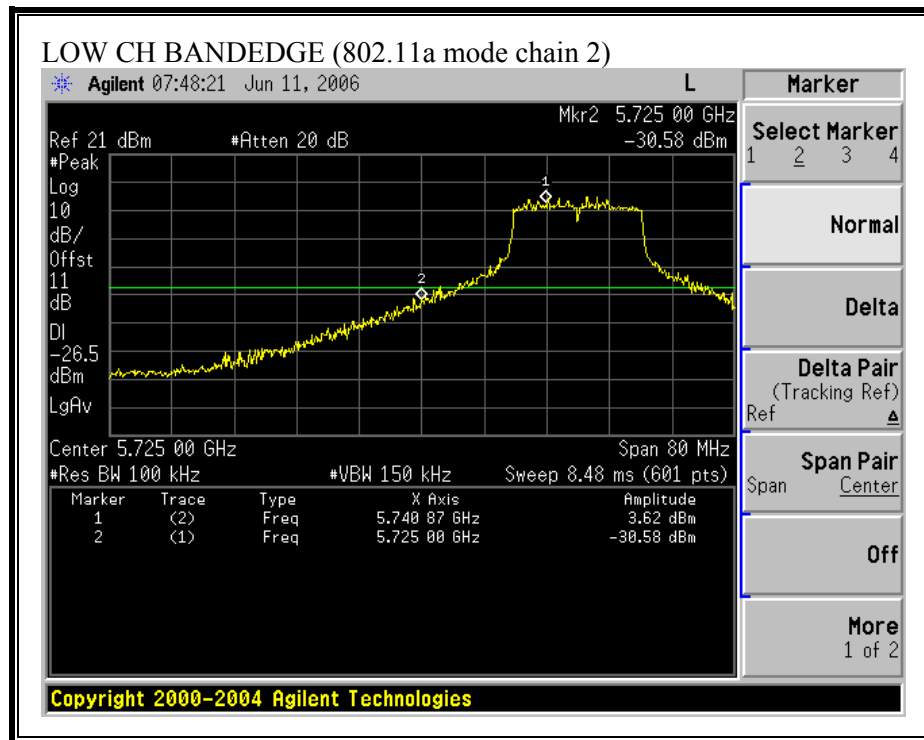


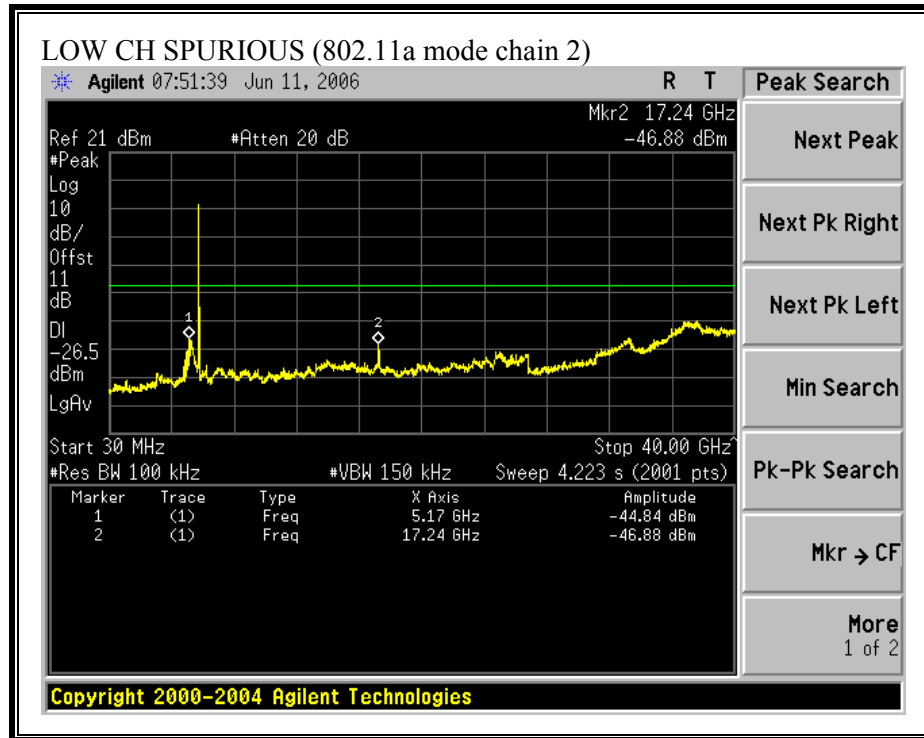


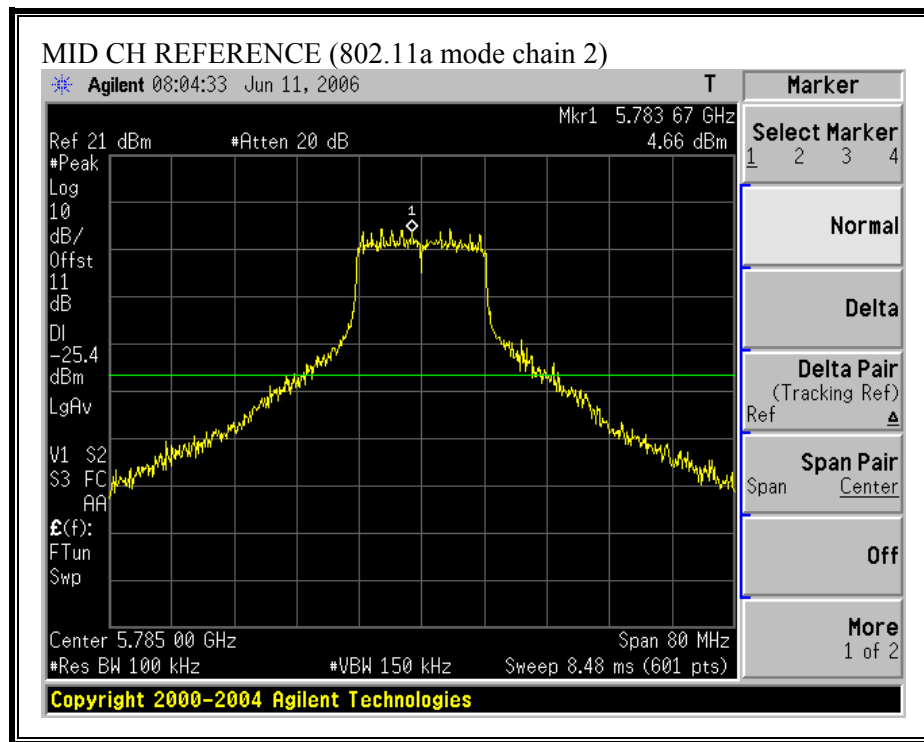


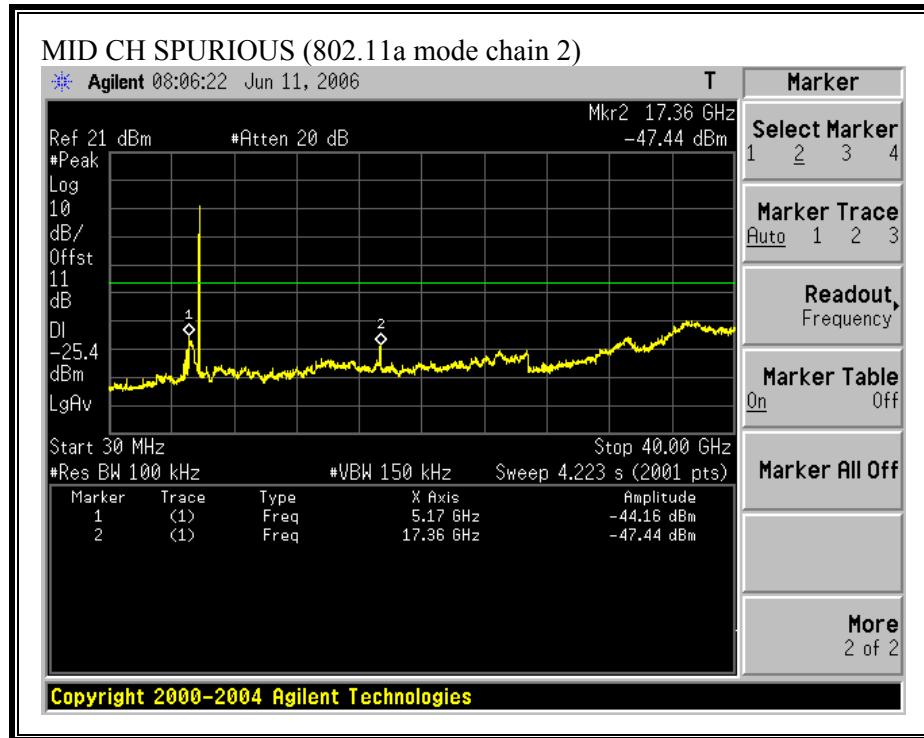


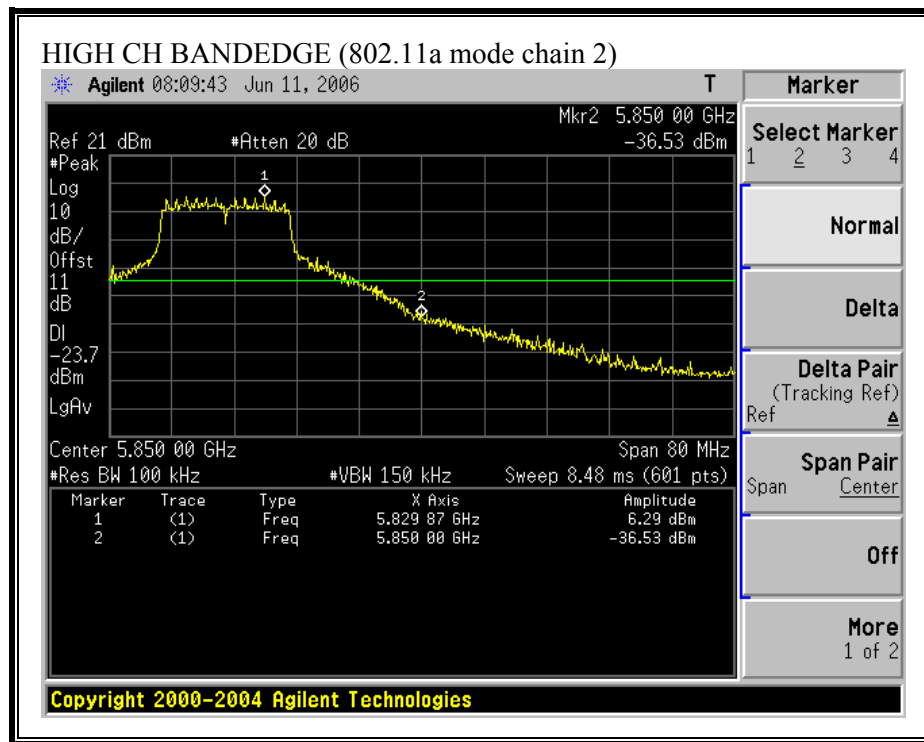
SPURIOUS EMISSIONS (802.11a MODE CHAIN 2)

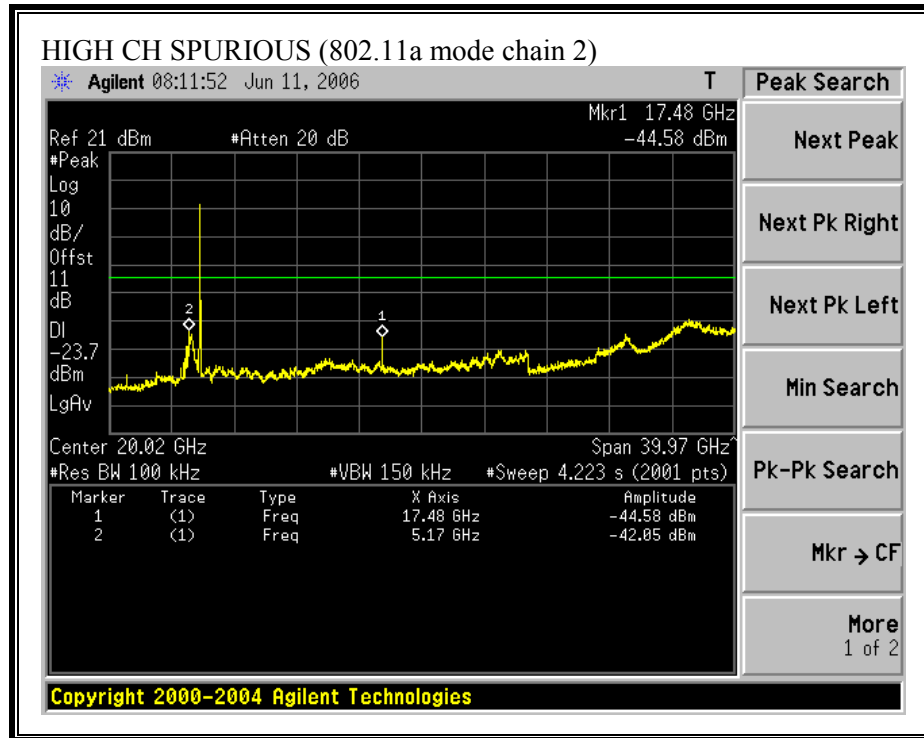




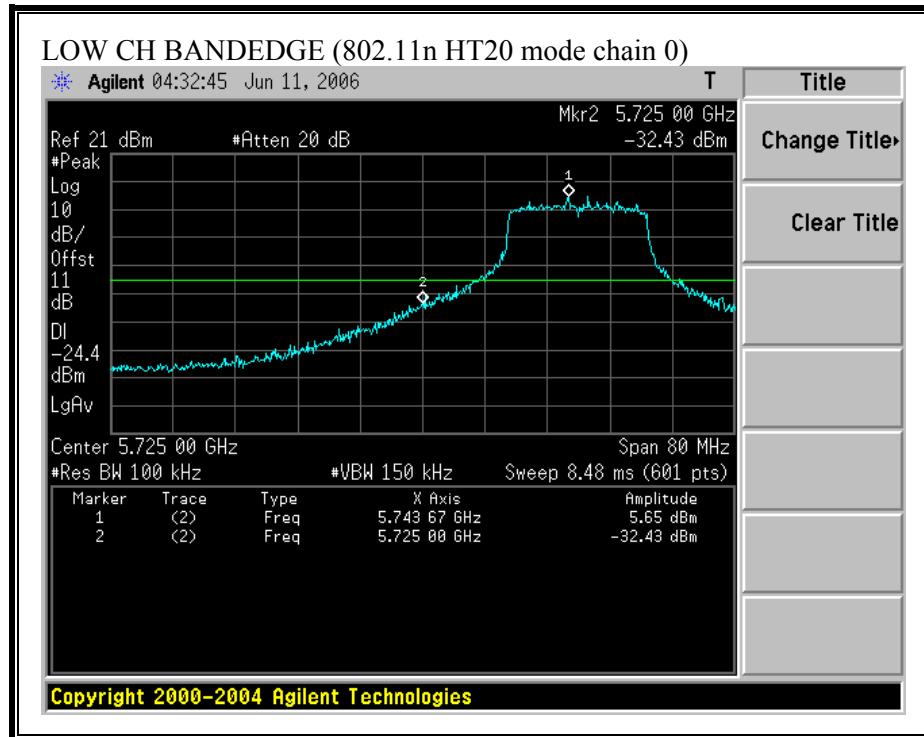


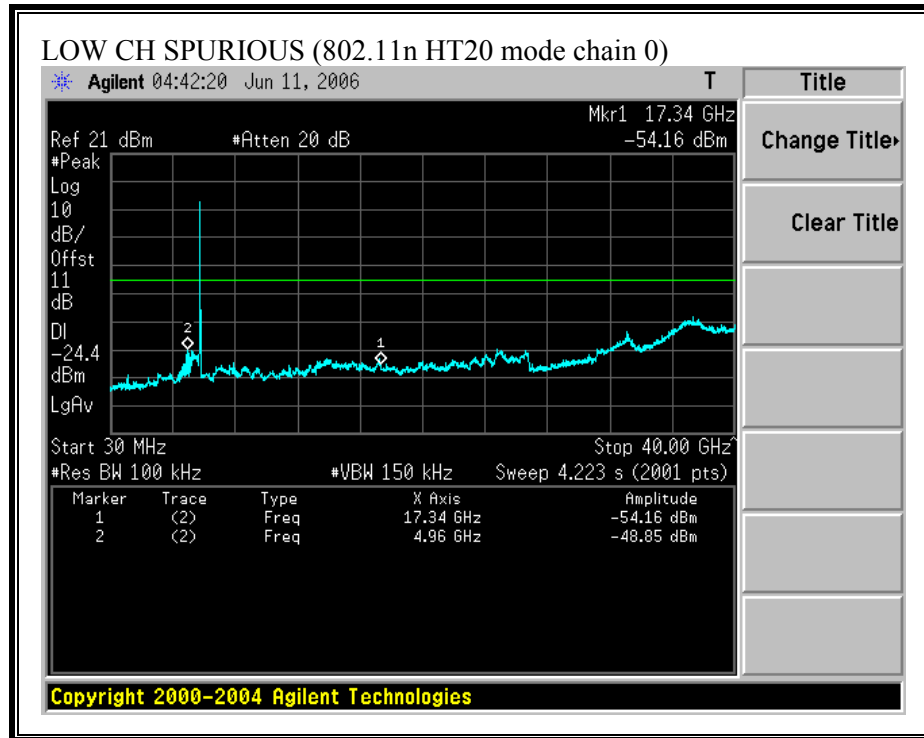


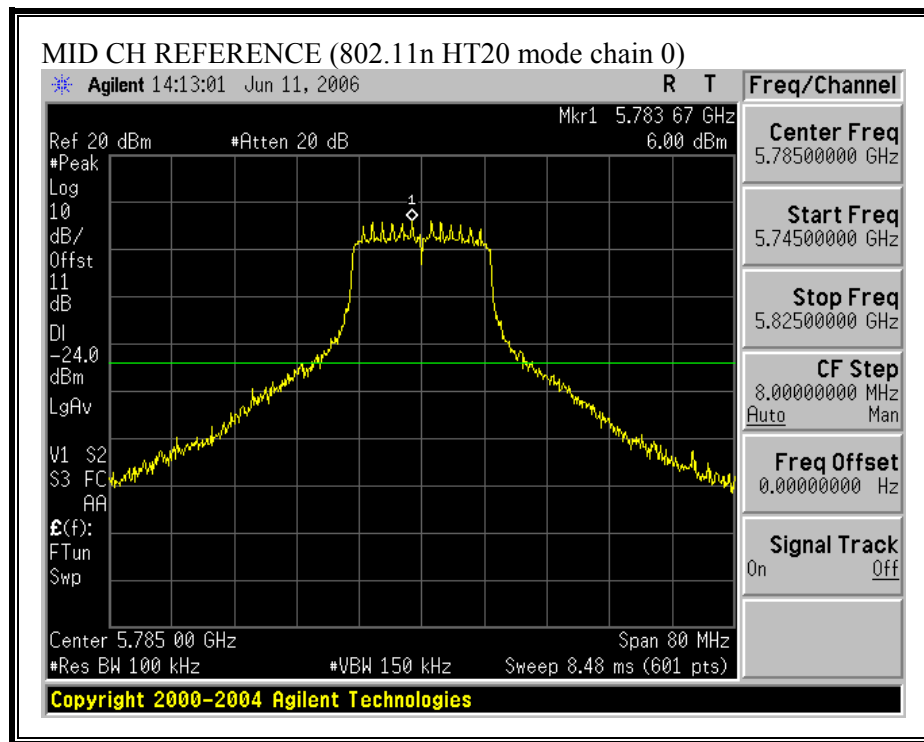


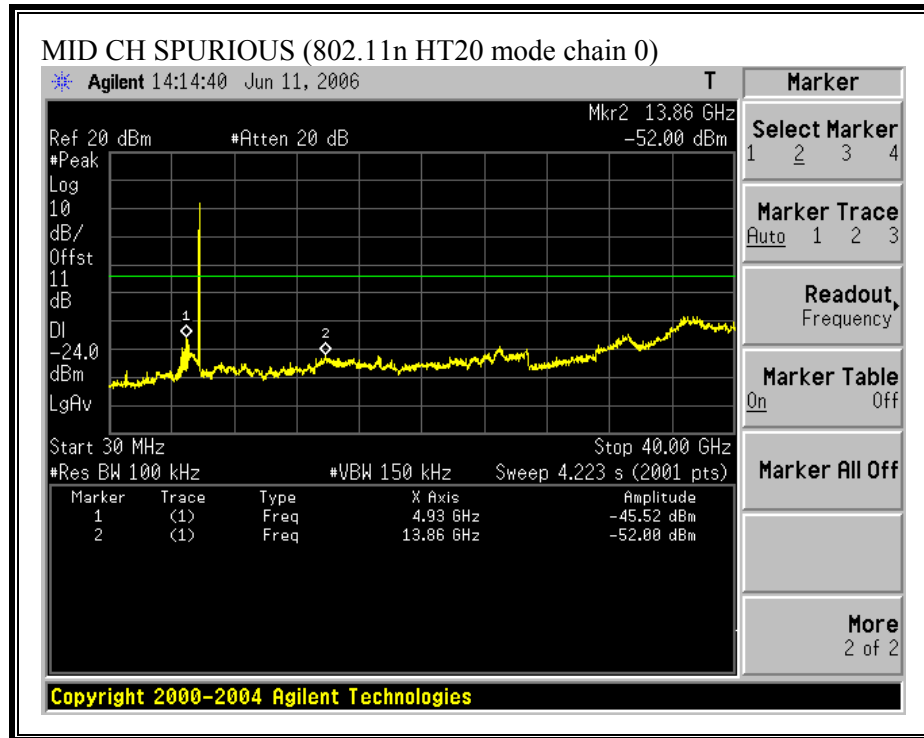


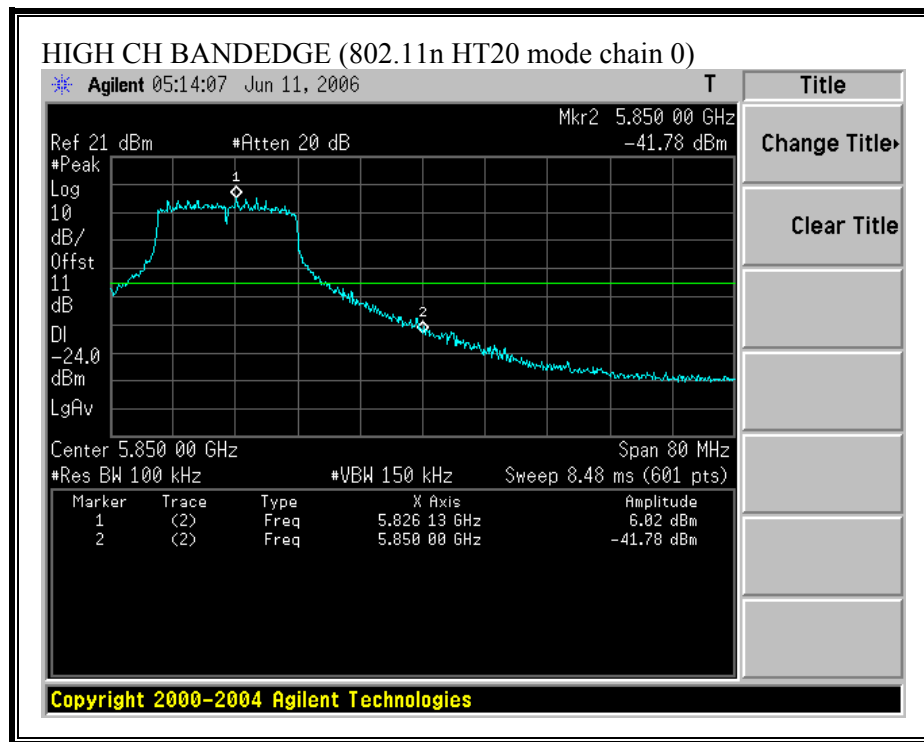
SPURIOUS EMISSIONS (802.11n HT20 MODE CHAIN 0)

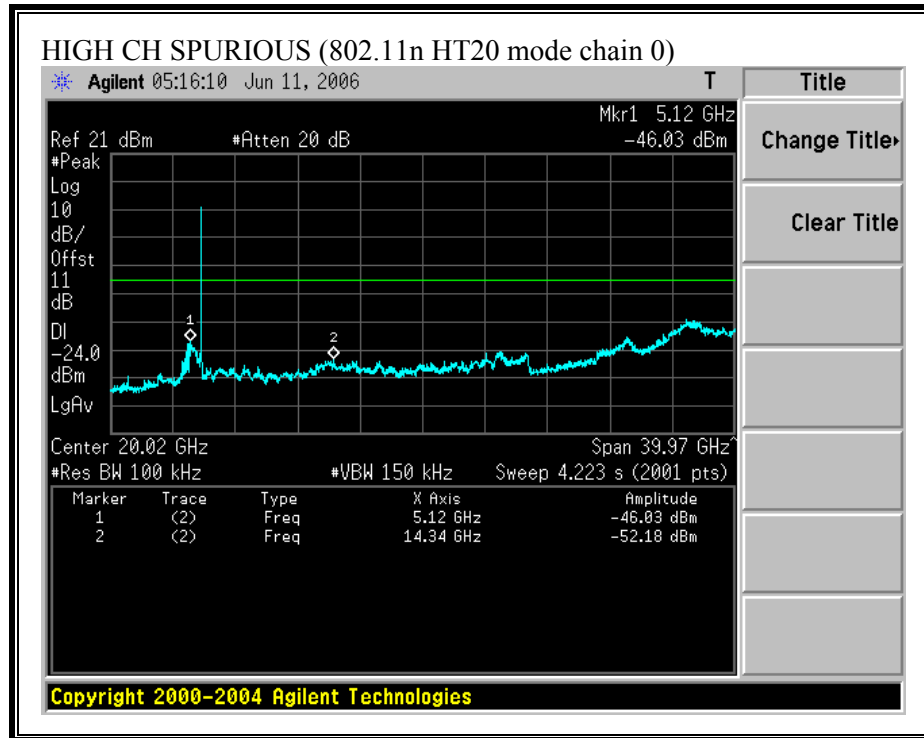




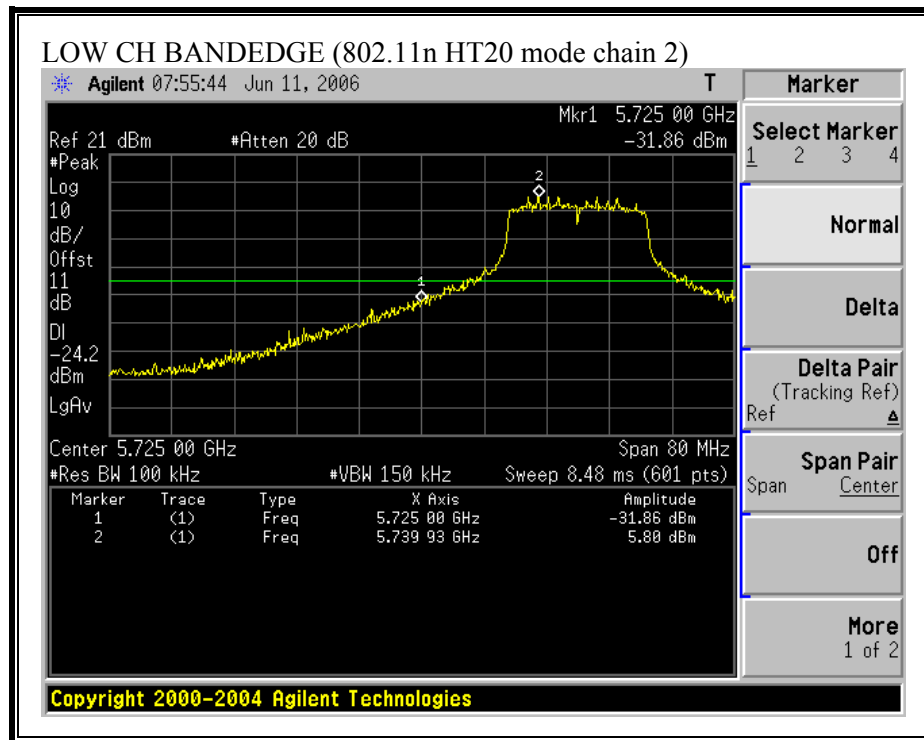


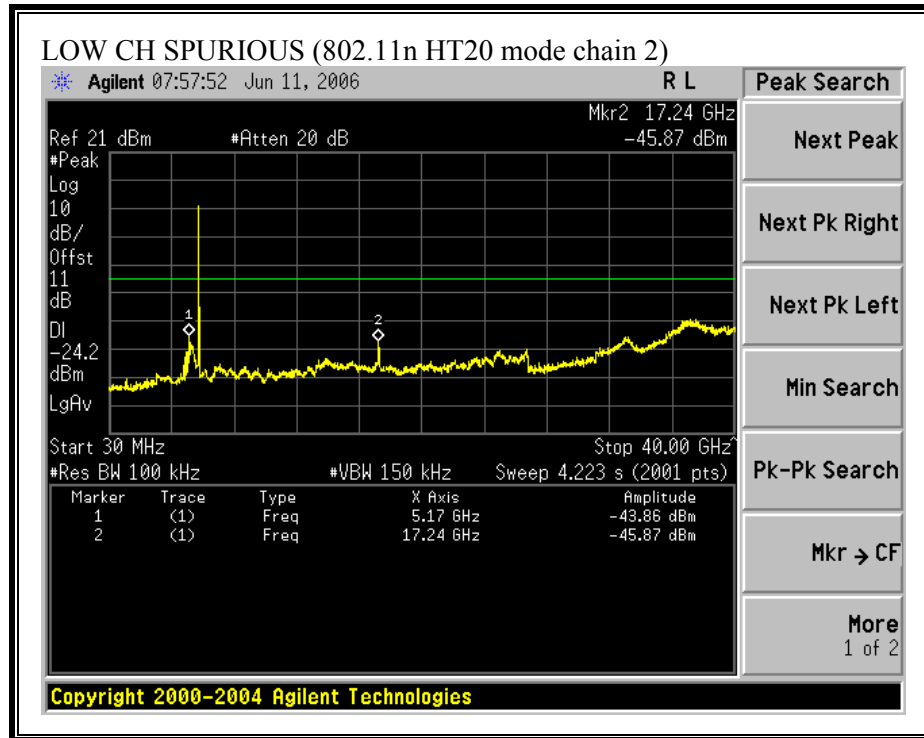


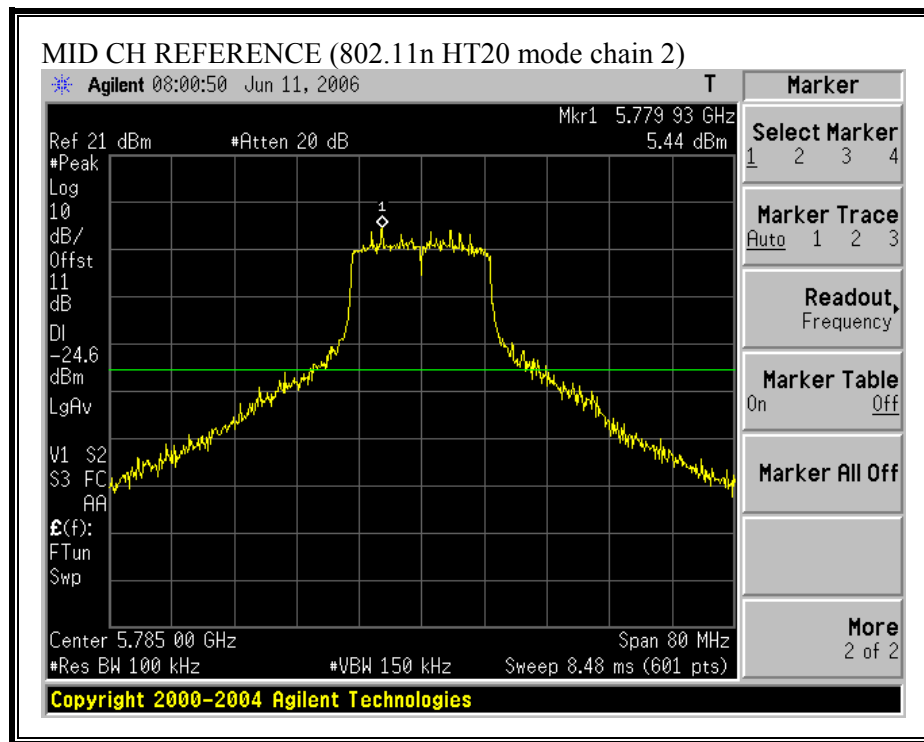


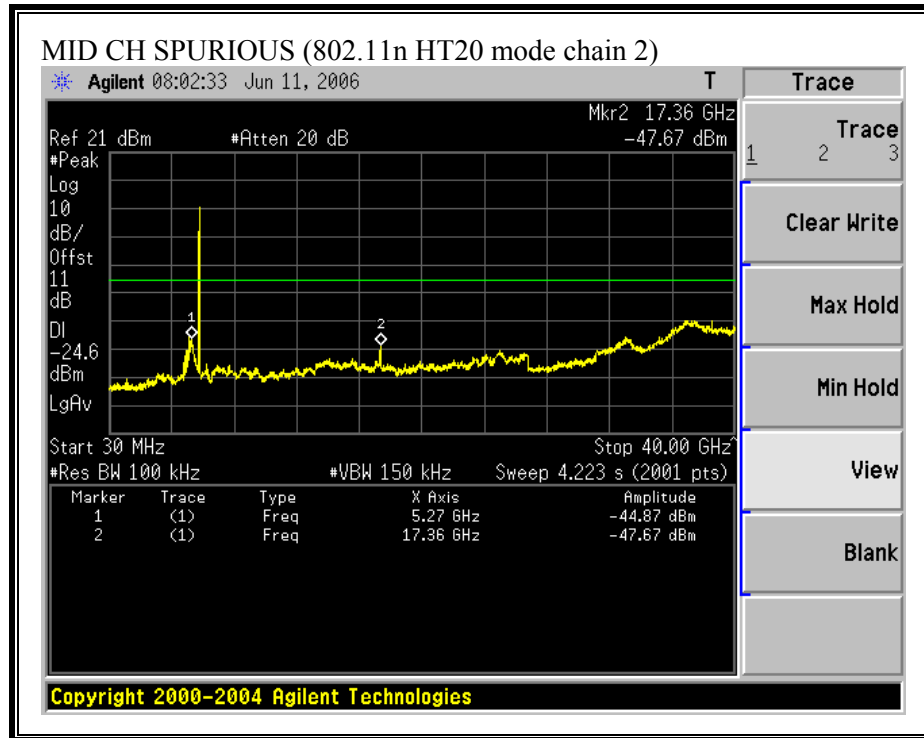


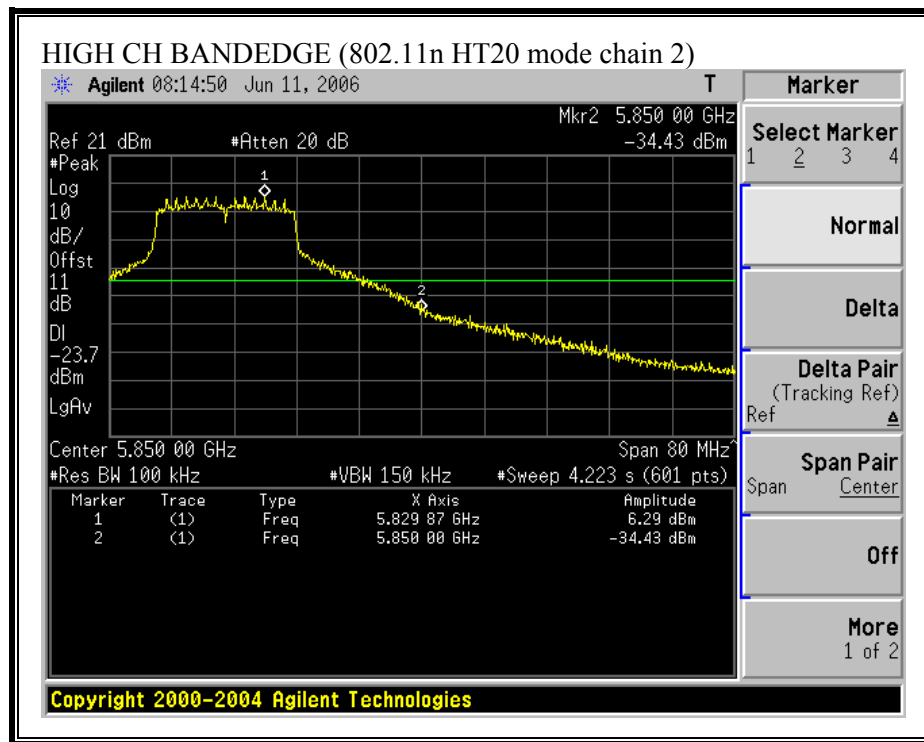
SPURIOUS EMISSIONS (802.11 HT20 MODE CHAIN 2)

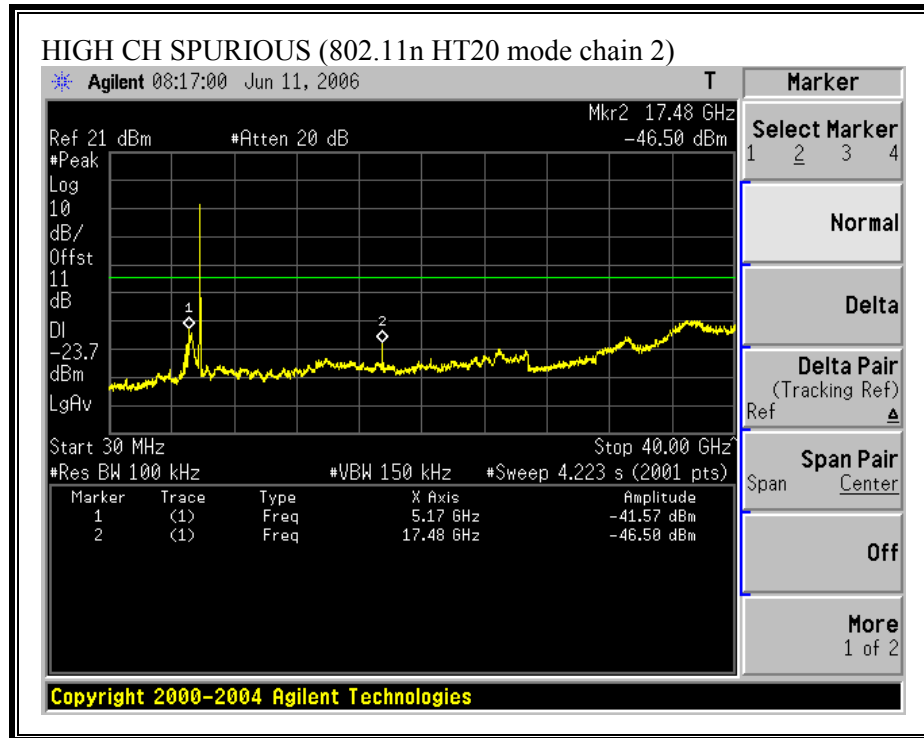




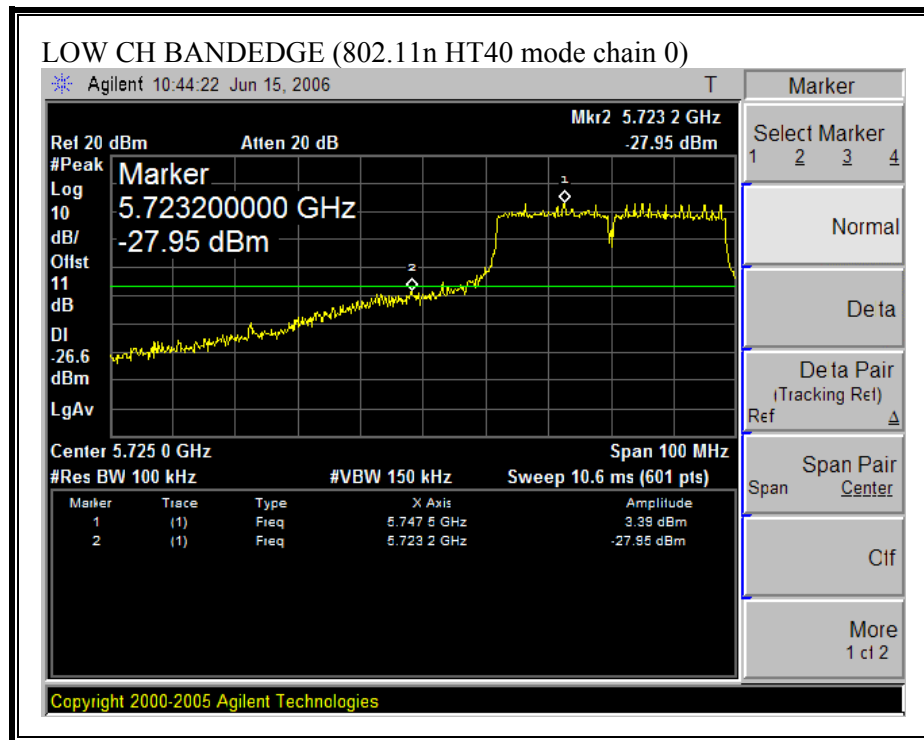


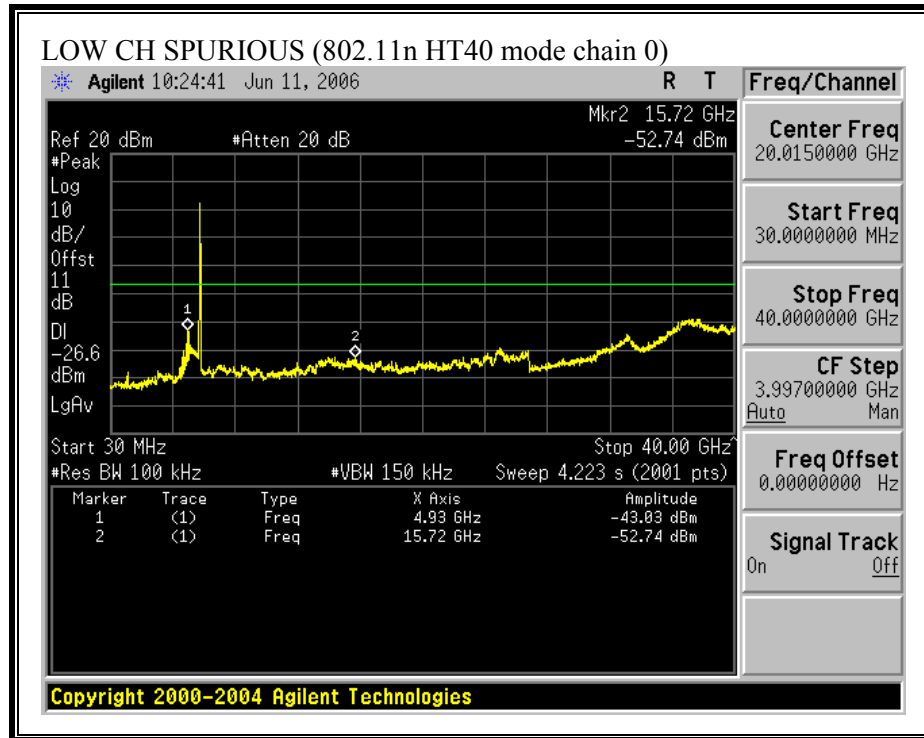


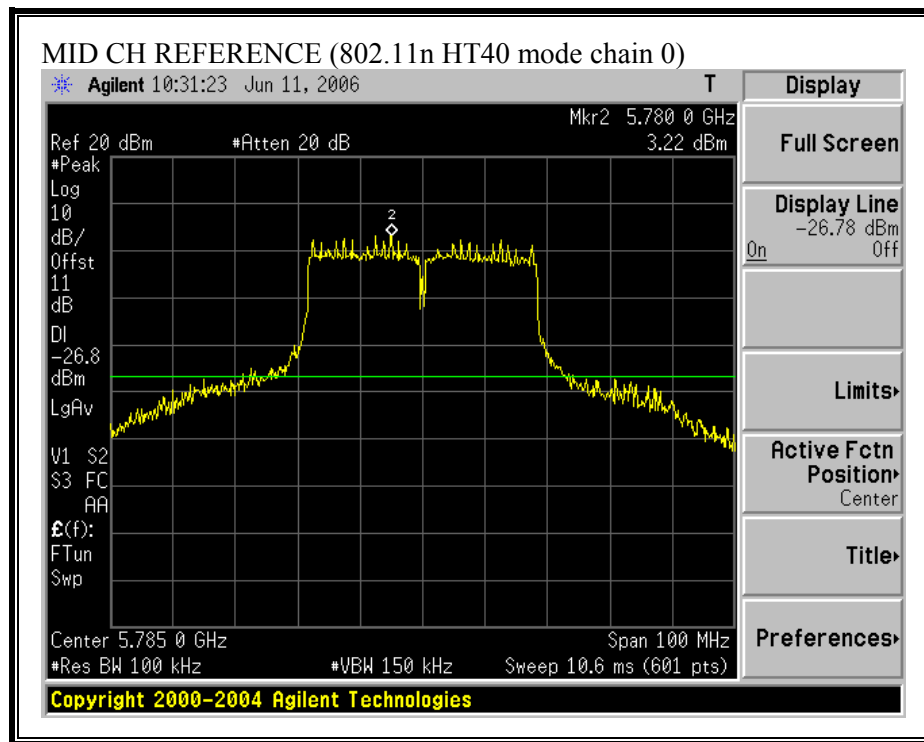


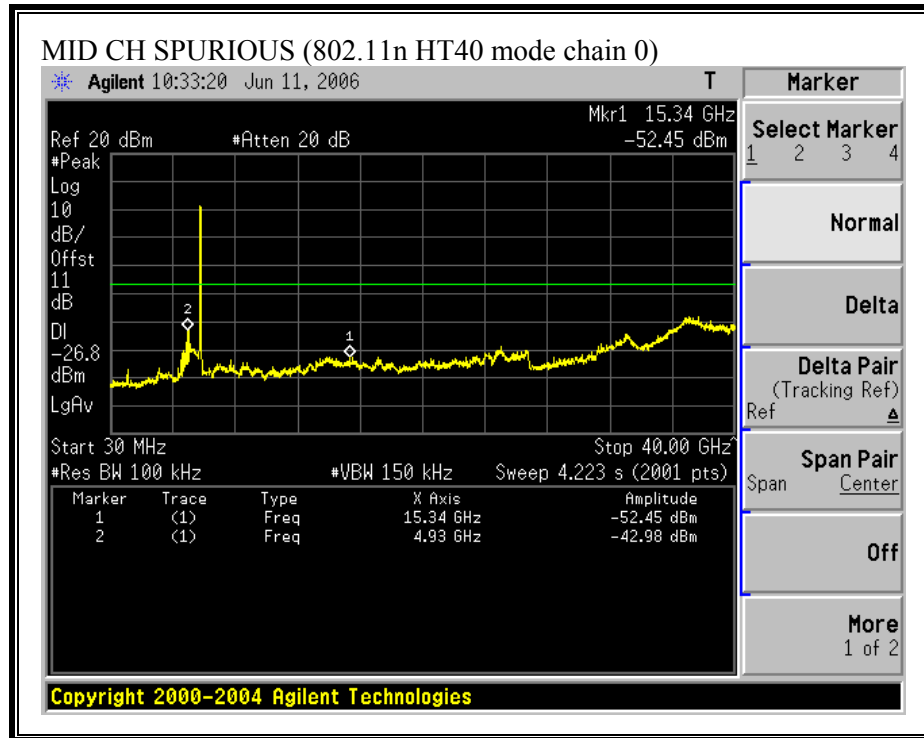


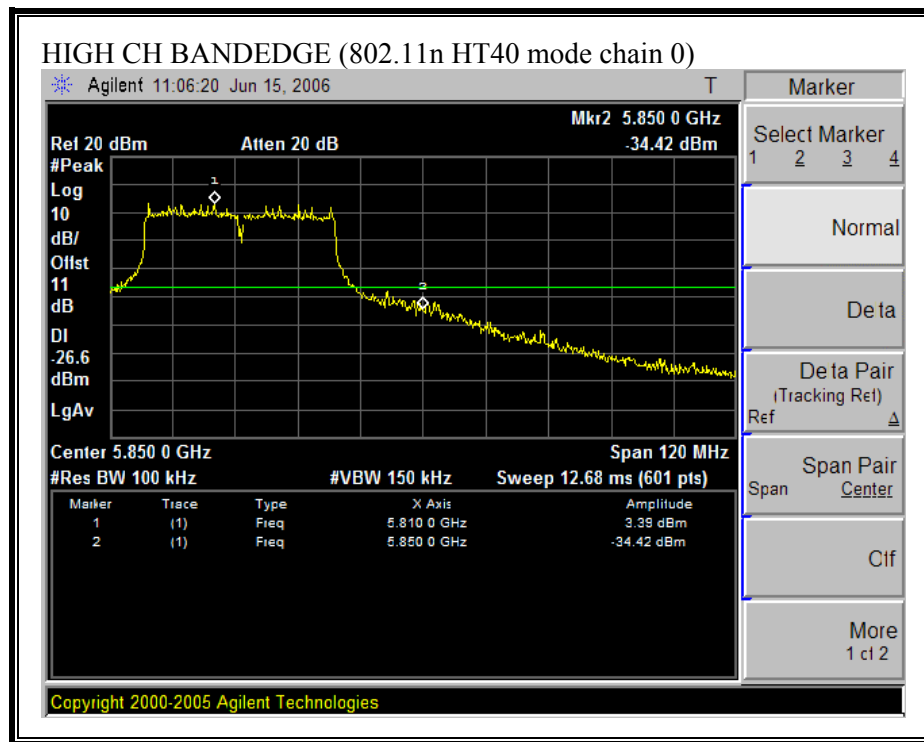
SPURIOUS EMISSIONS (802.11 HT40 MODE CHAIN 0)

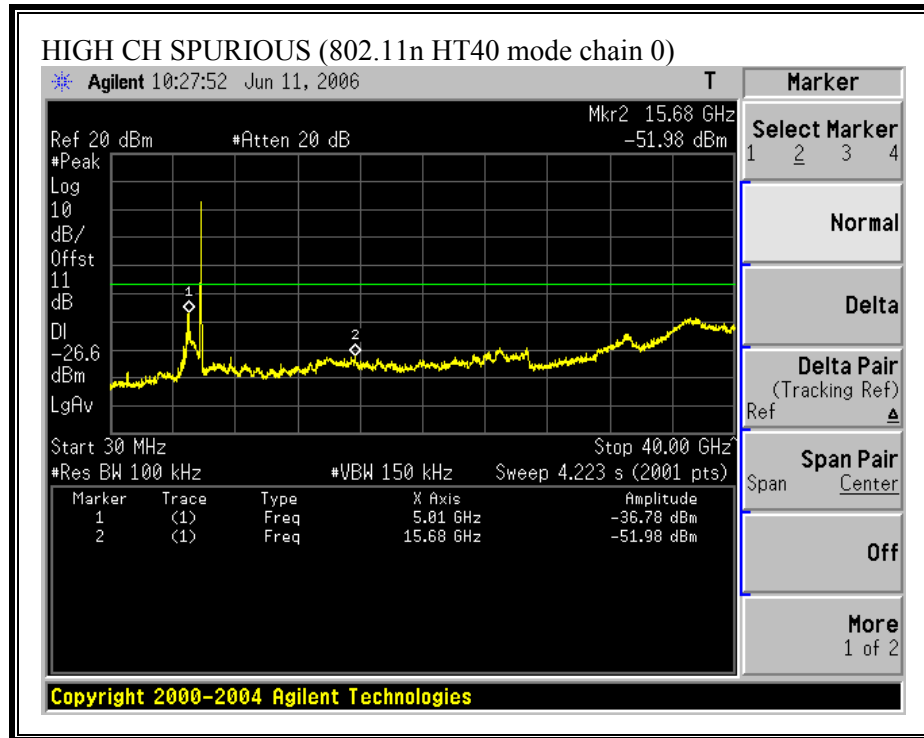




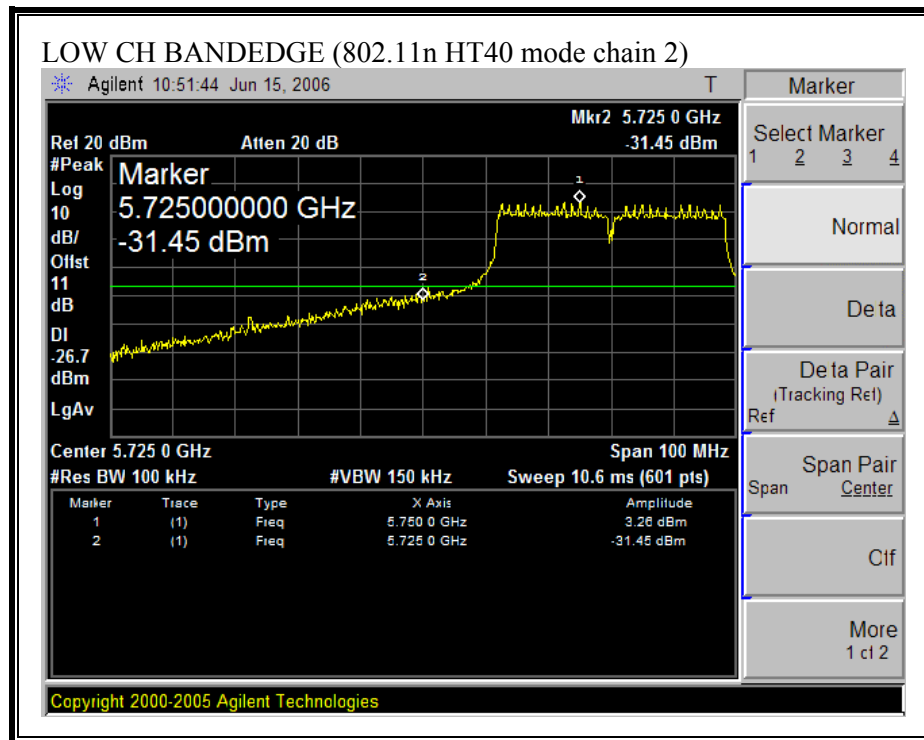


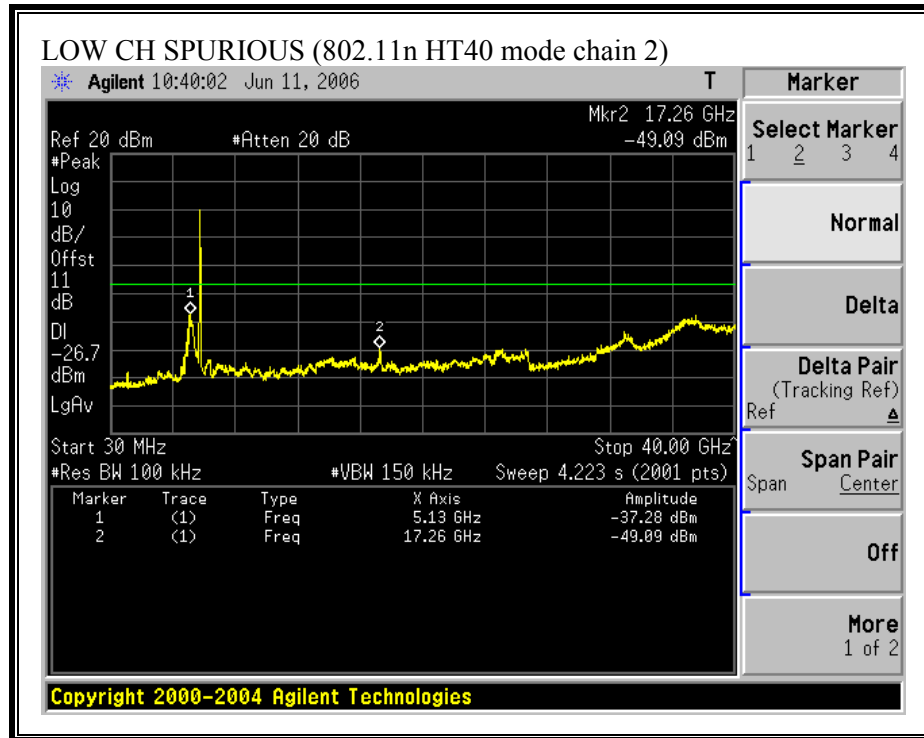


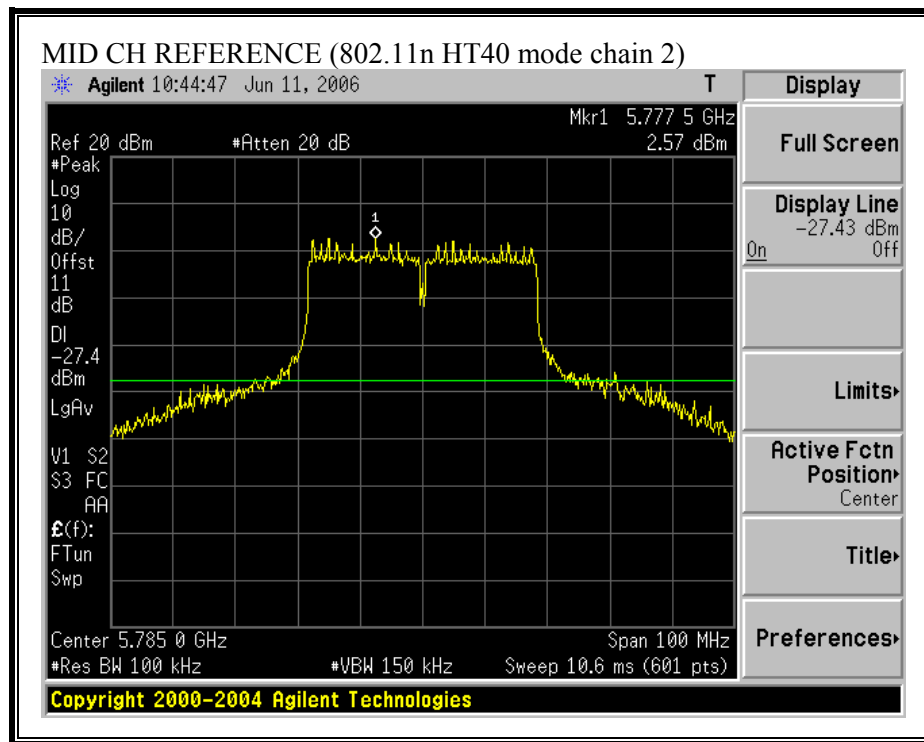


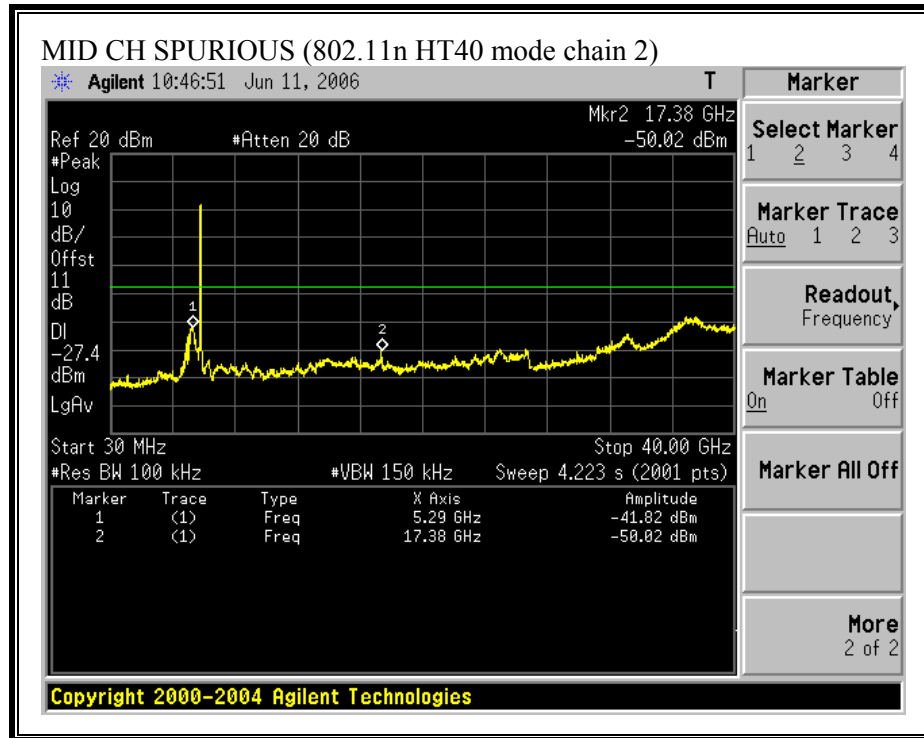


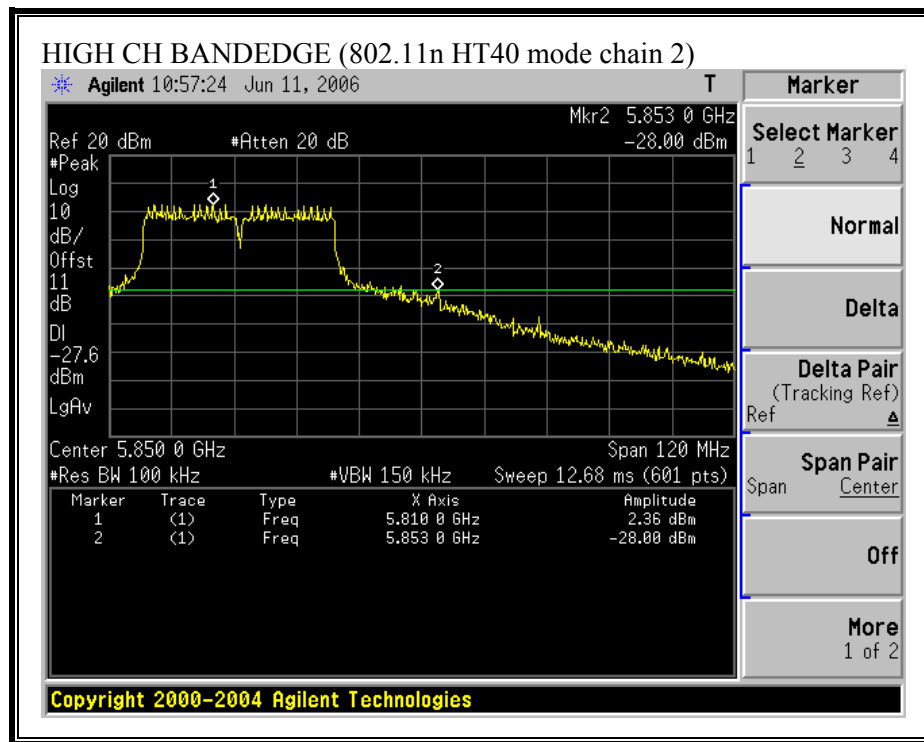
SPURIOUS EMISSIONS (802.11 HT40 MODE CHAIN 2)

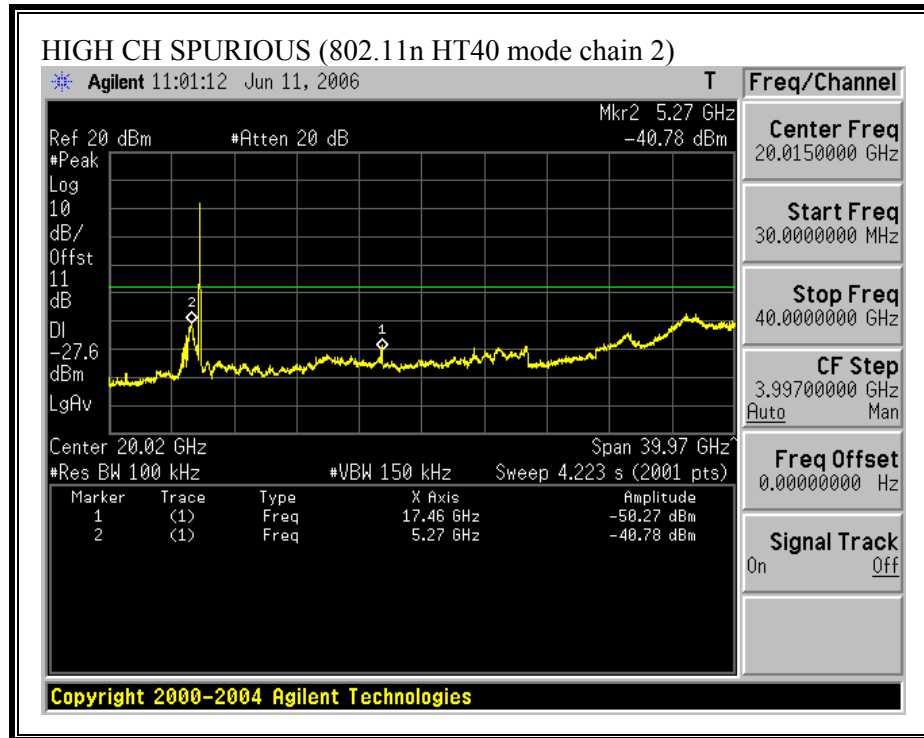




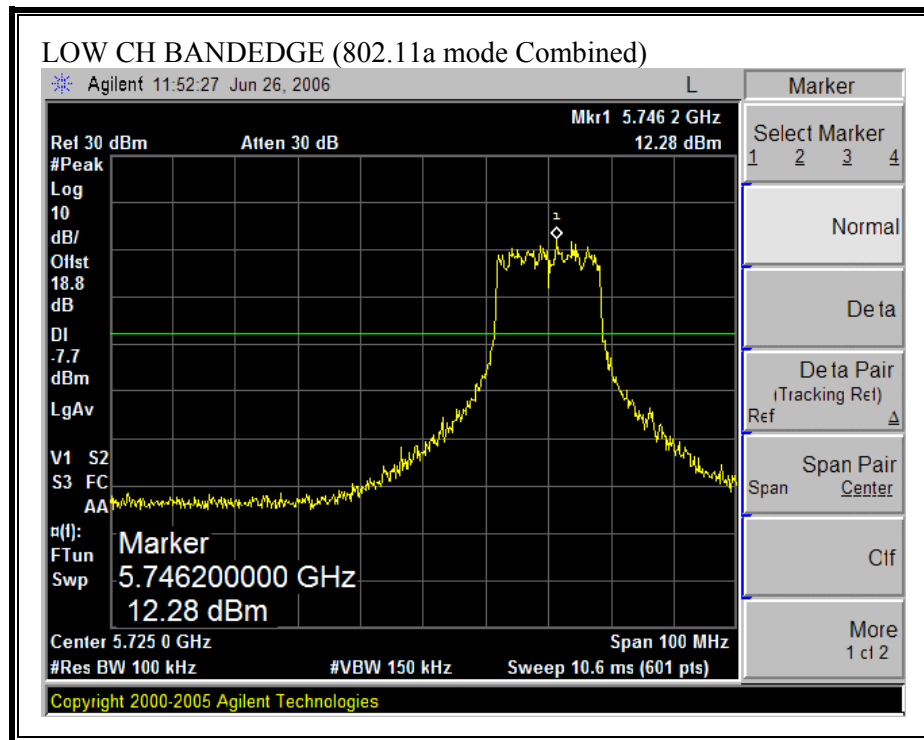


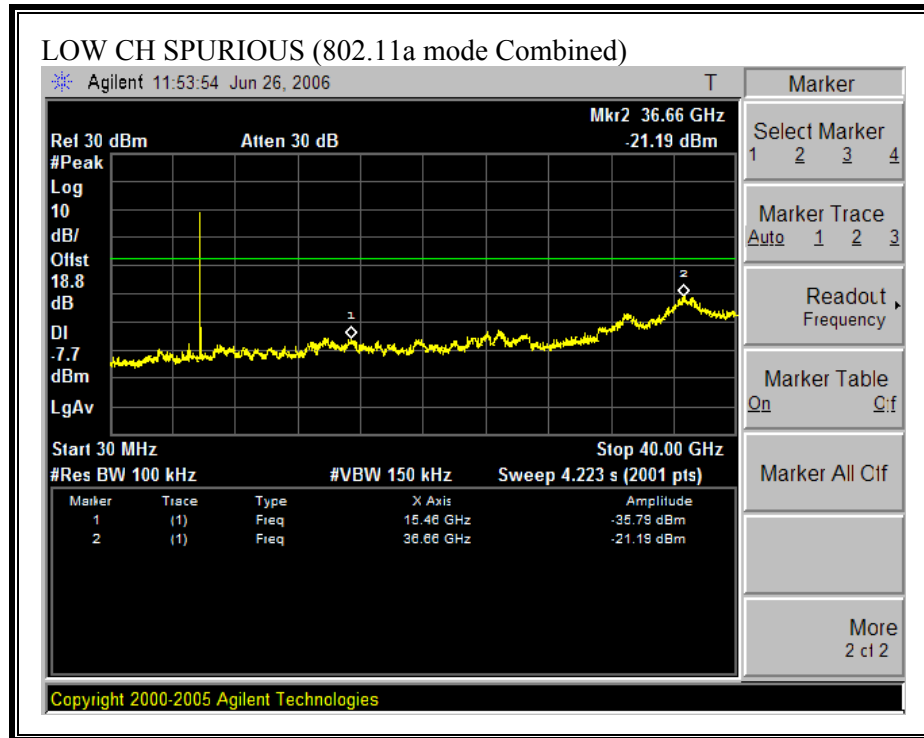


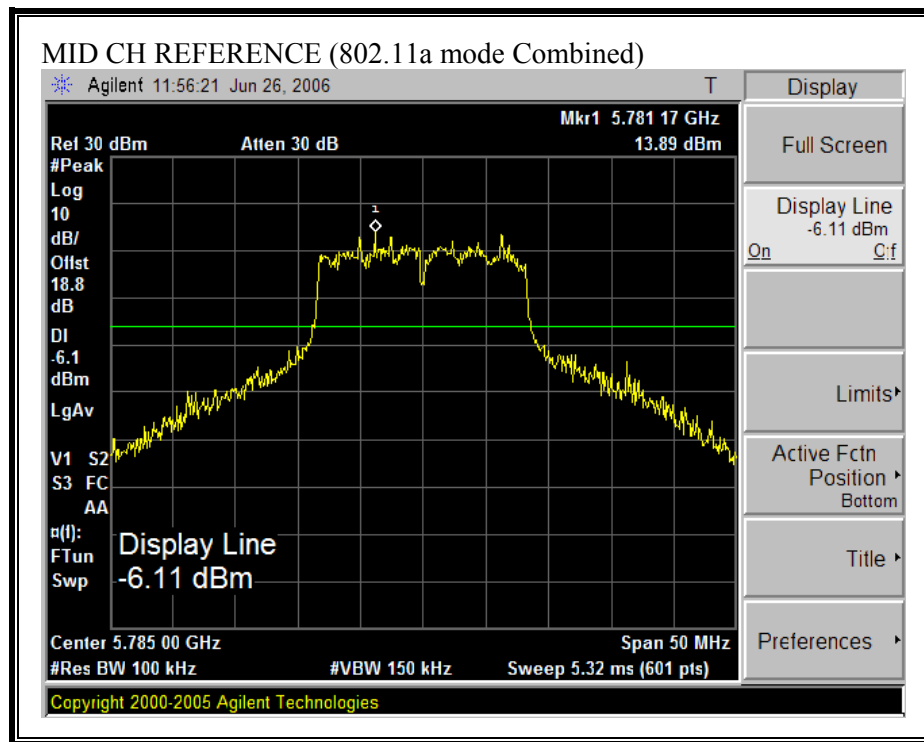


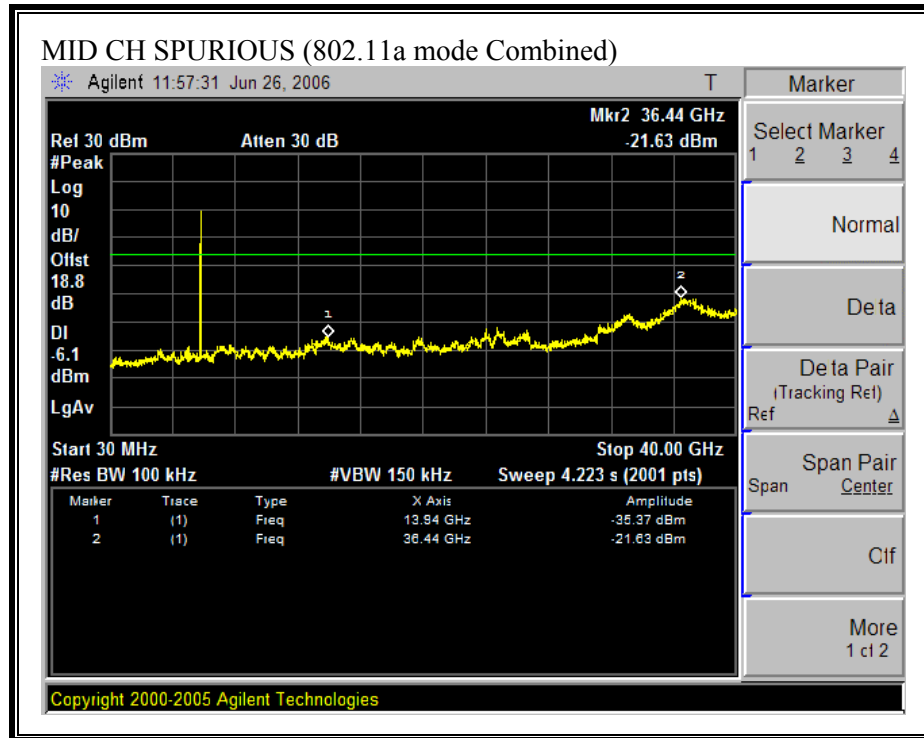


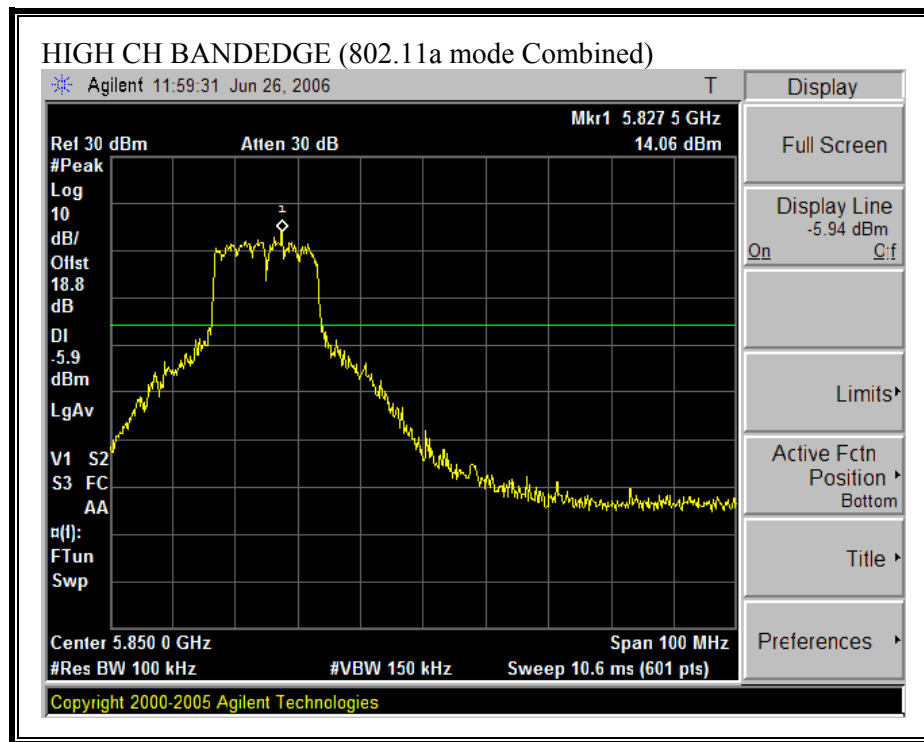
COMBINED SPURIOUS EMISSIONS (802.11a MODE)

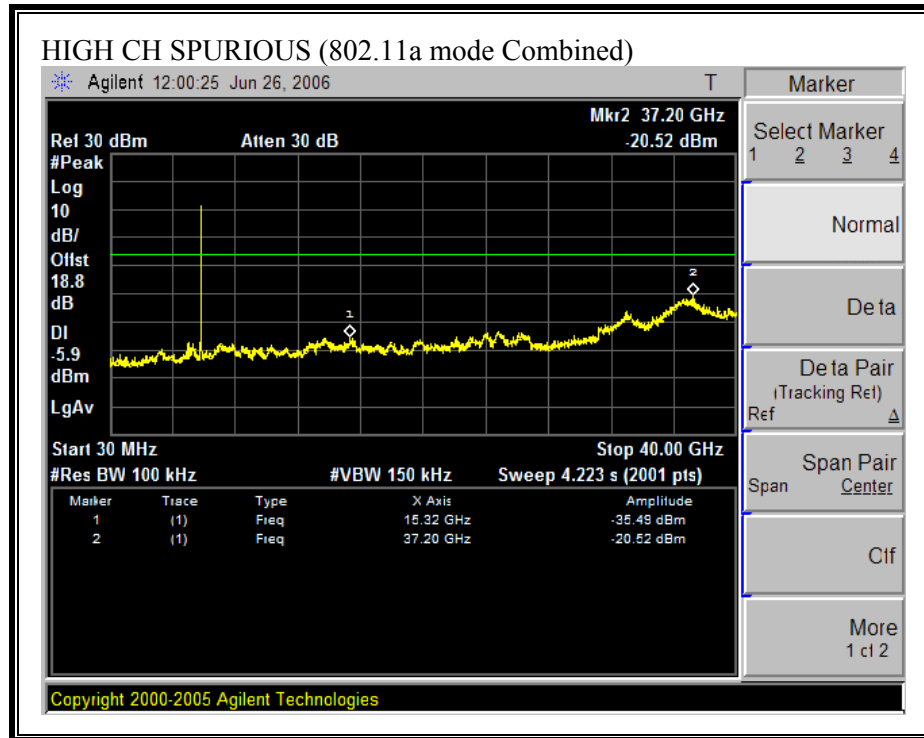




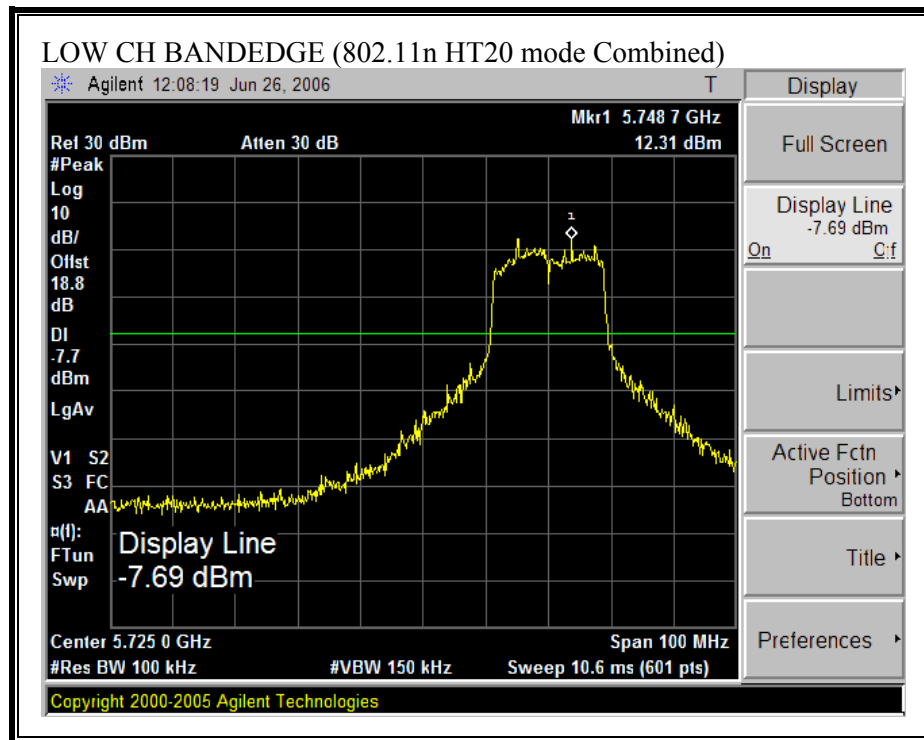


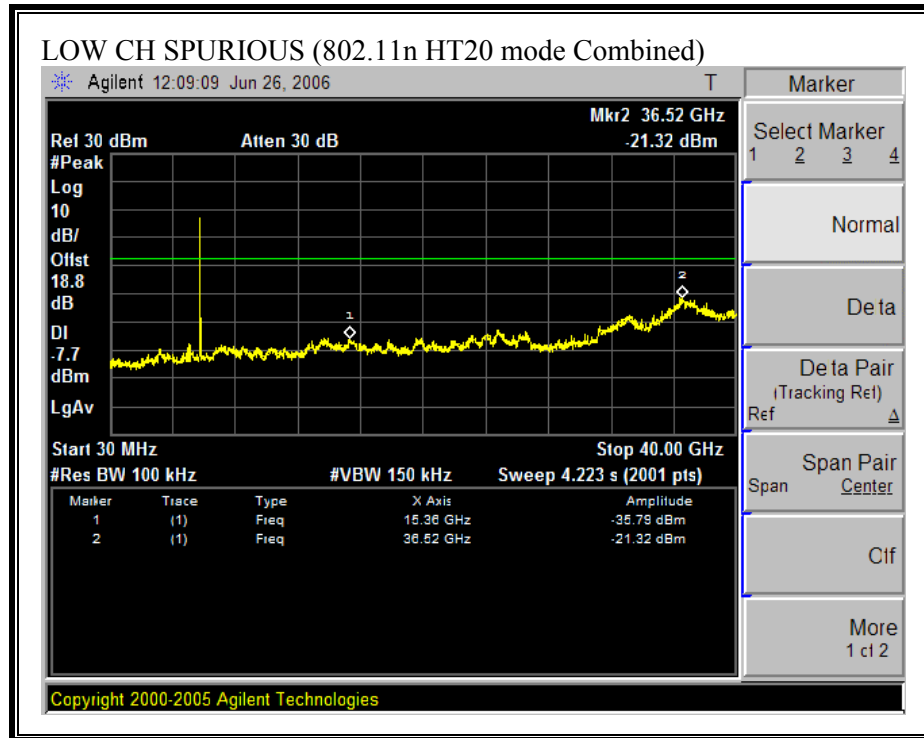


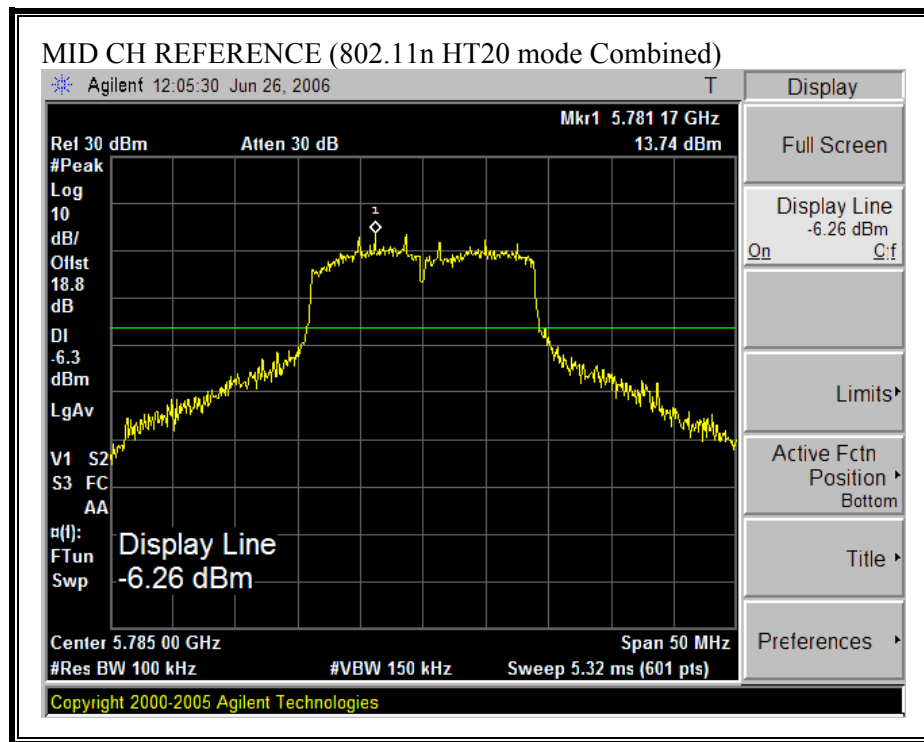


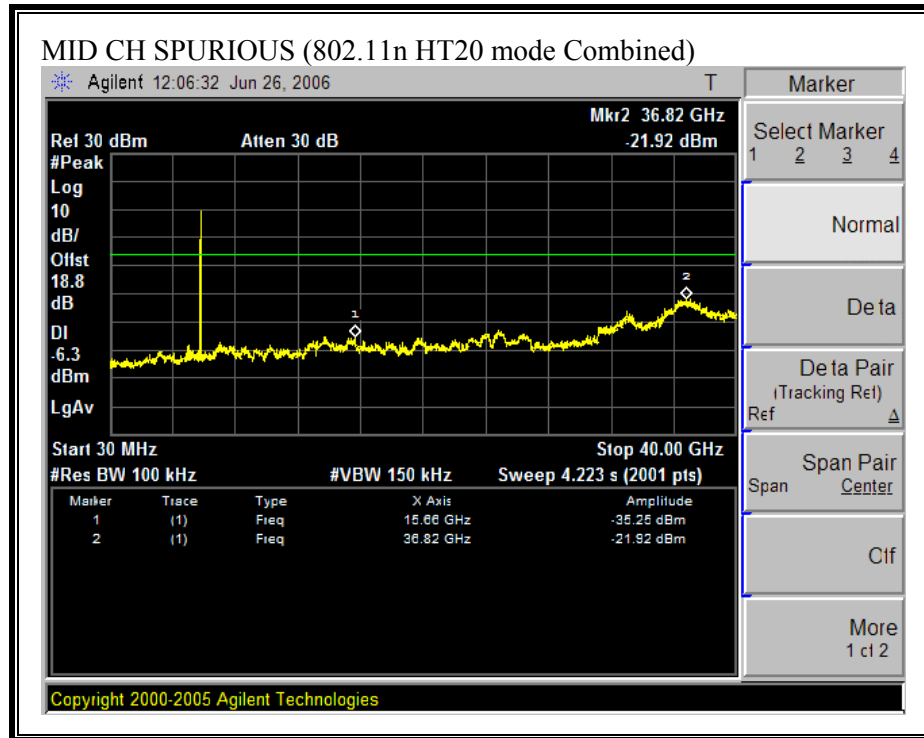


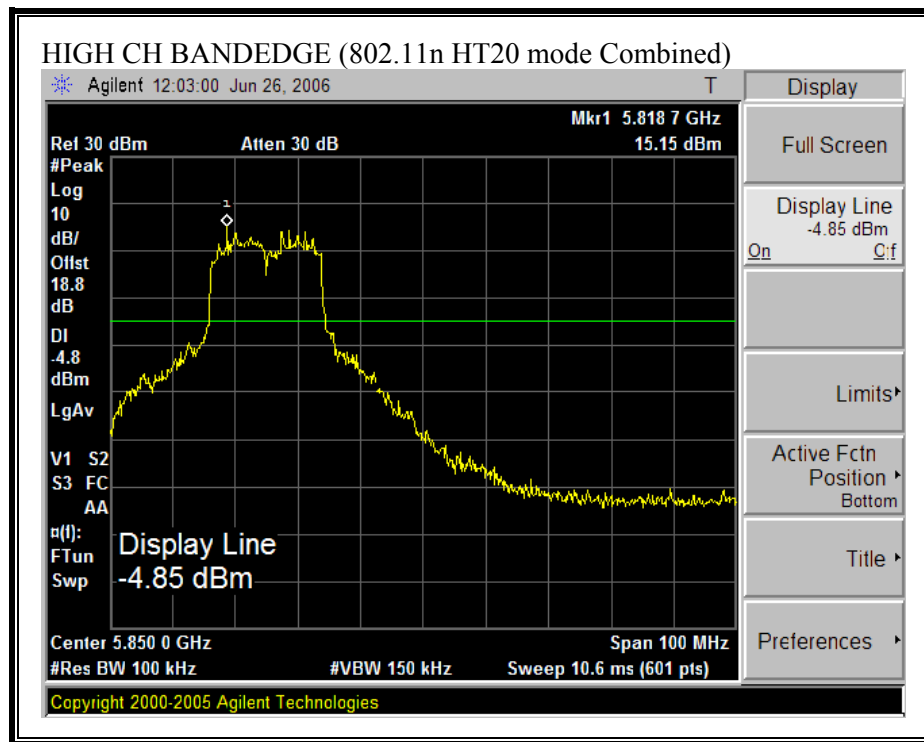
COMBINED SPURIOUS EMISSIONS (802.11n HT20 MODE)

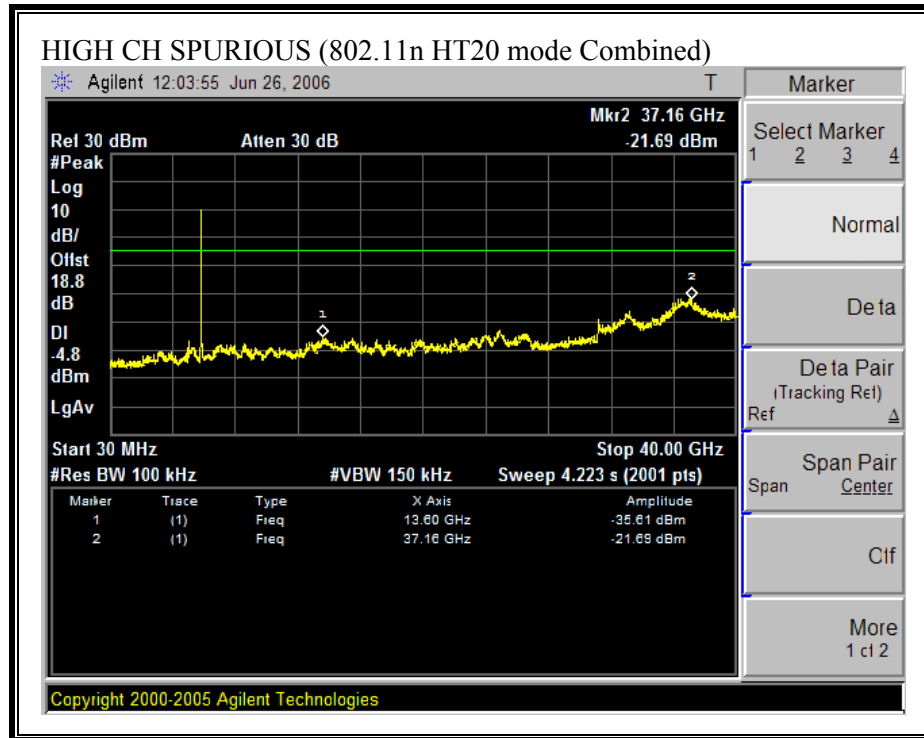




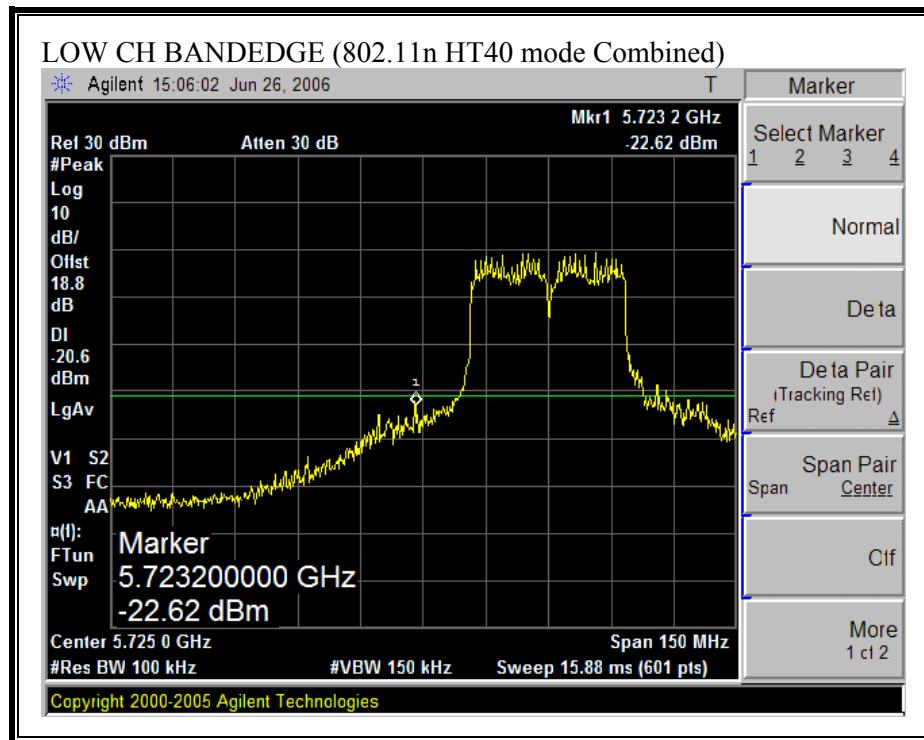


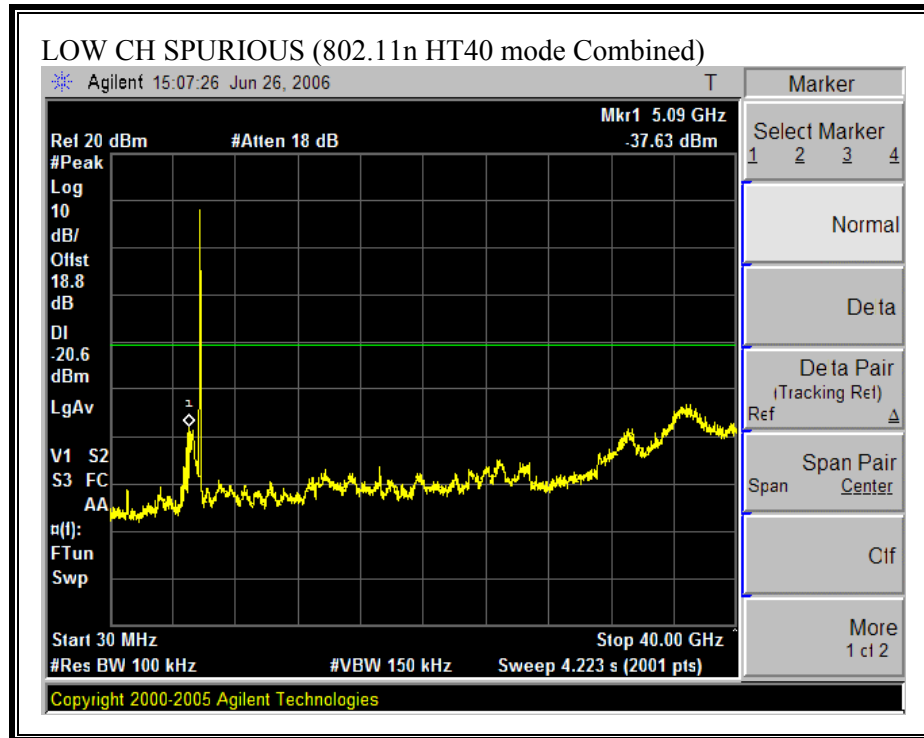




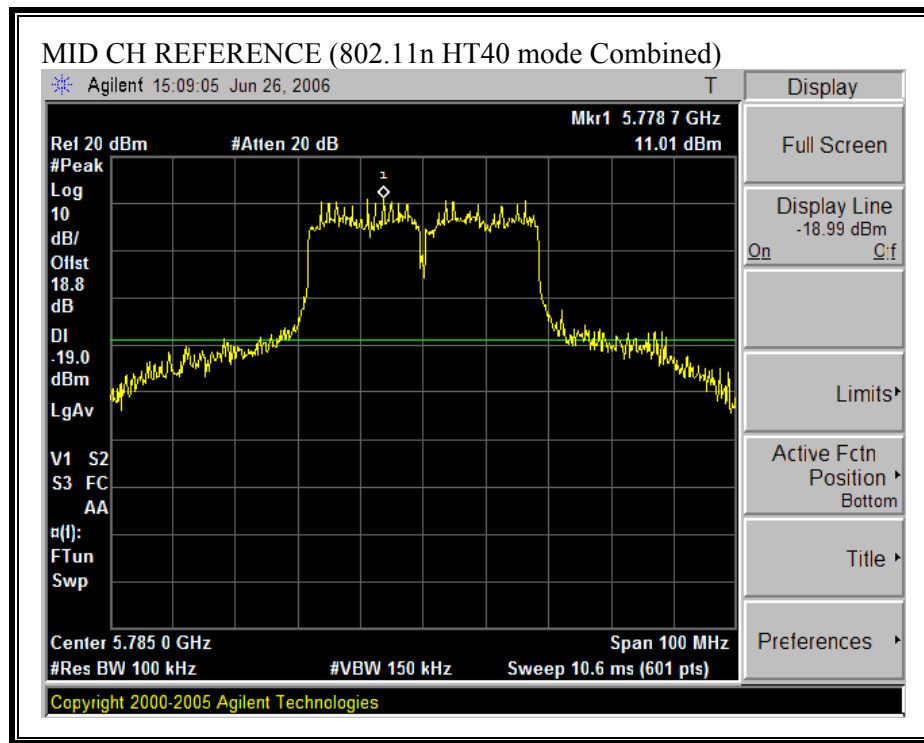


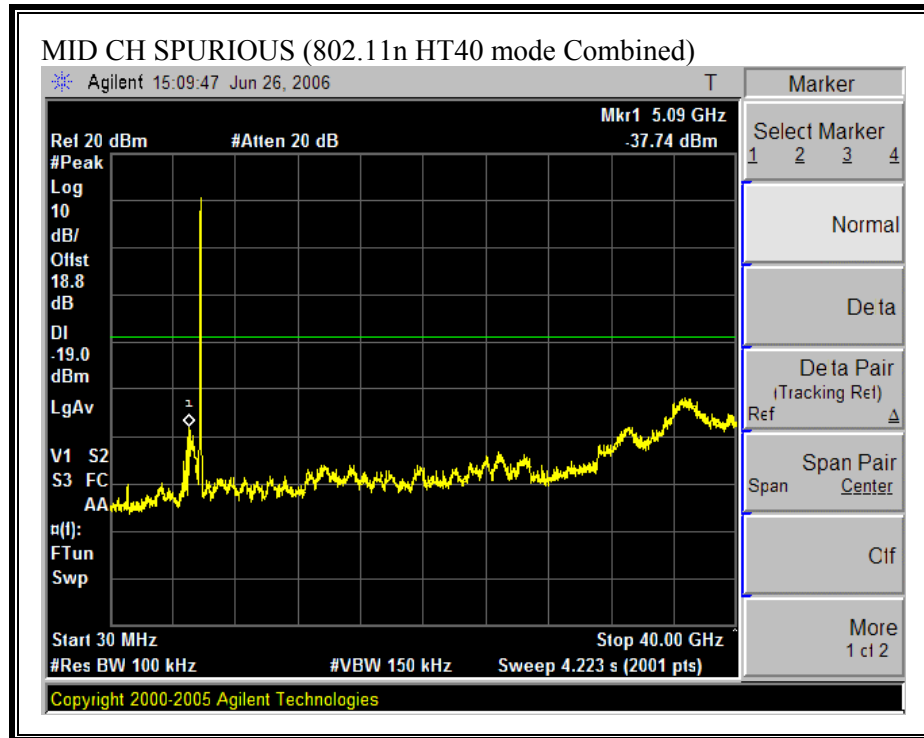
COMBINED SPURIOUS EMISSIONS (802.11 HT40 MODE)

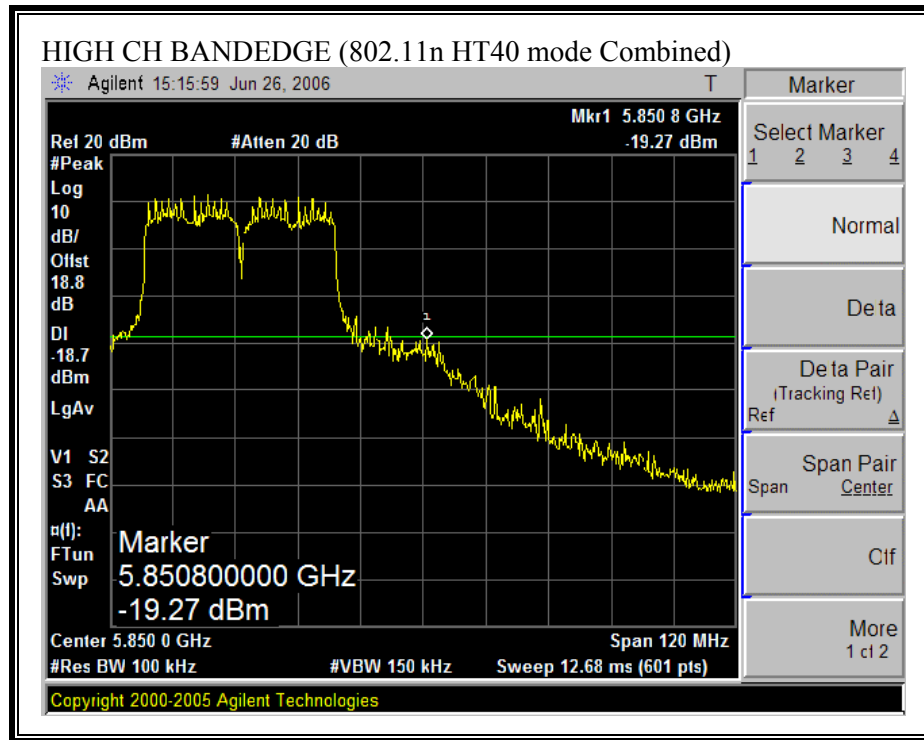


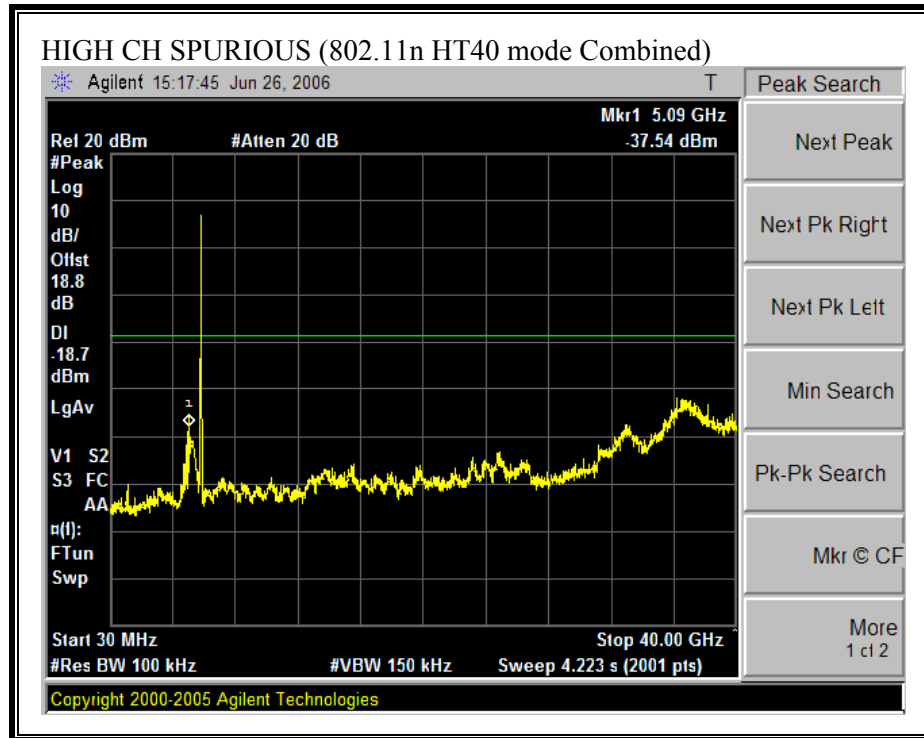


COMBINED SPURIOUS EMISSIONS (802.11 HT40 MODE)









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/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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/cm ²)	Averaging time (minutes)
30–300	27.5	0.073	0.2	30
300–1500			f/1500	30
1500–100,000			1.0	30

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:

$$P (W) = P (mW) / 1000 \text{ and}$$

$$d (m) = d (cm) / 100$$

and substituting the logarithmic form of power and gain using:

$$P (mW) = 10^{(P (dBm) / 10)} \text{ and}$$

$$G (\text{numeric}) = 10^{(G (dBi) / 10)}$$

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/cm²

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 (GHz)	MPE Distance (cm)	Total Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm²)
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.

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	(²)
13.36 - 13.41			

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

² Above 38.6

§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.

§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.

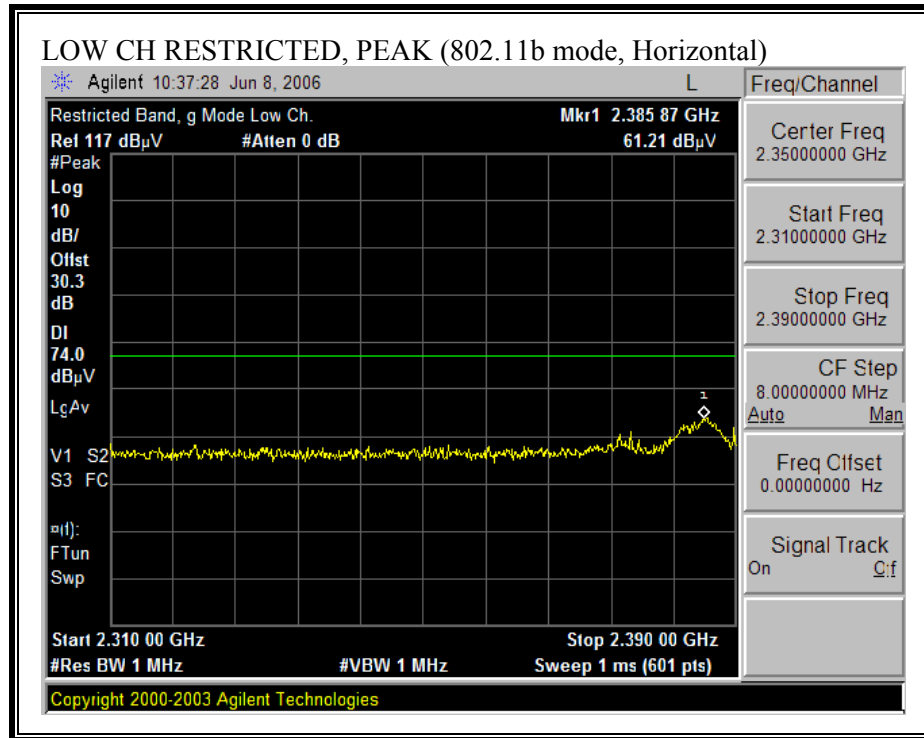
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

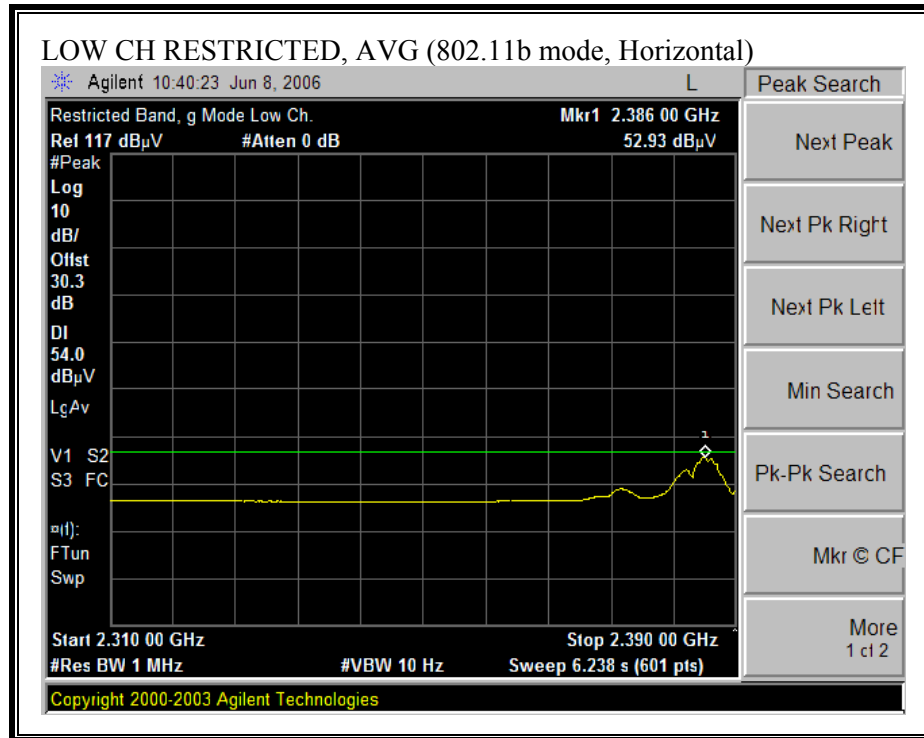
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

Both transmitting chains were activated simultaneously and continuously during all radiated emissions tests.

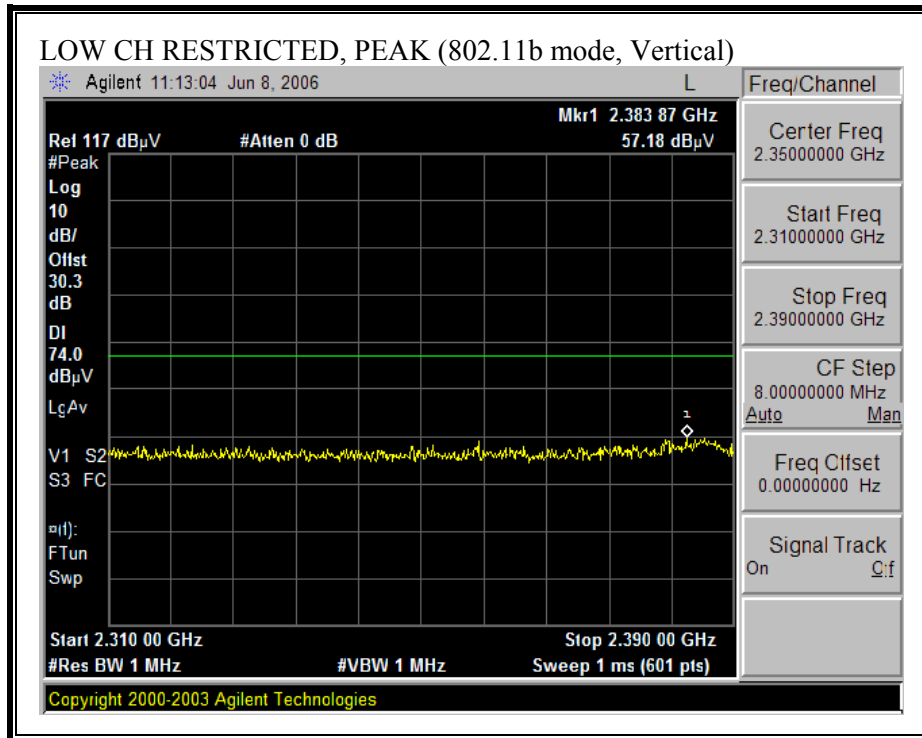
7.4.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND WITH PIFA ANTENNAS

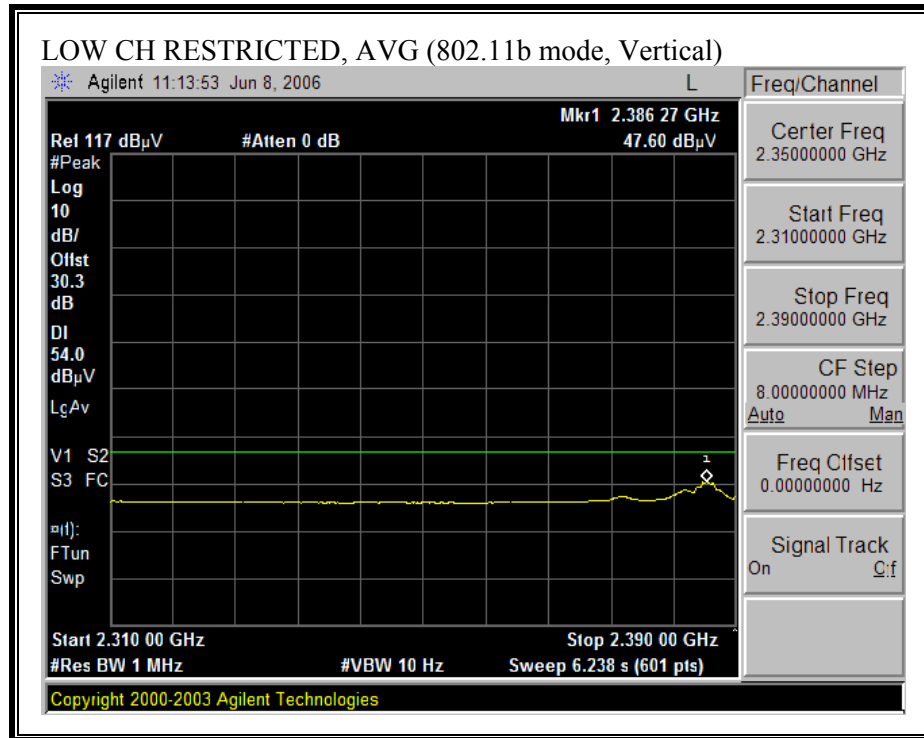
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



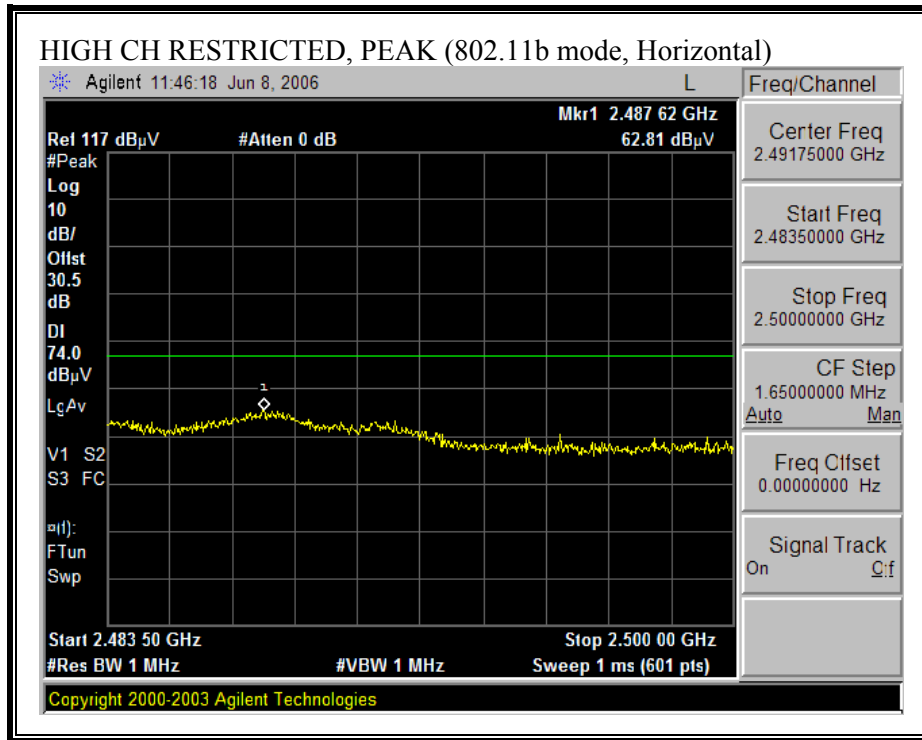


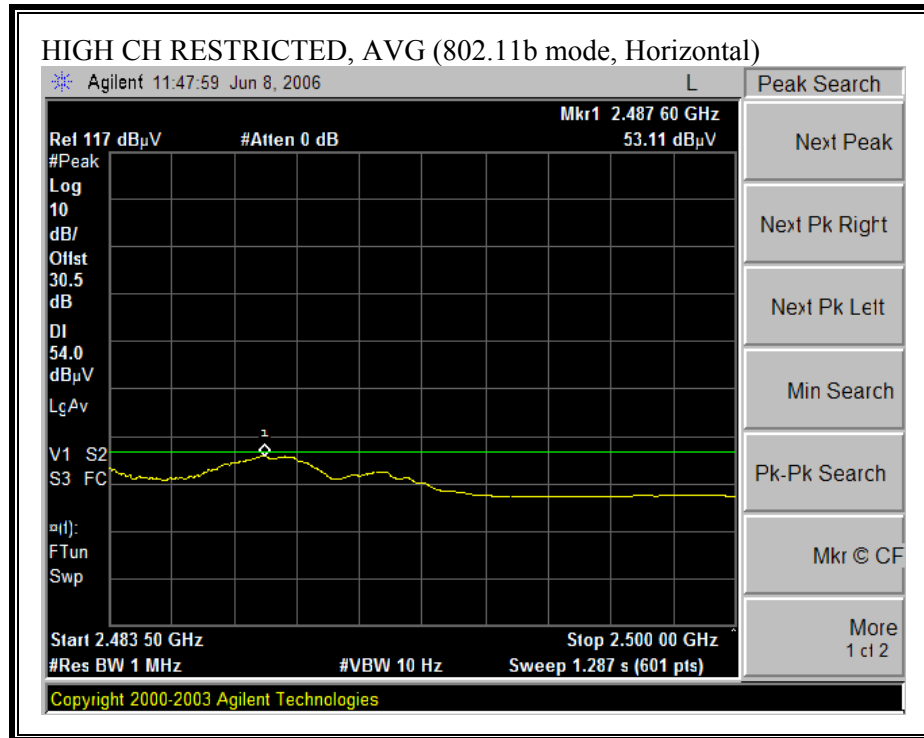
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



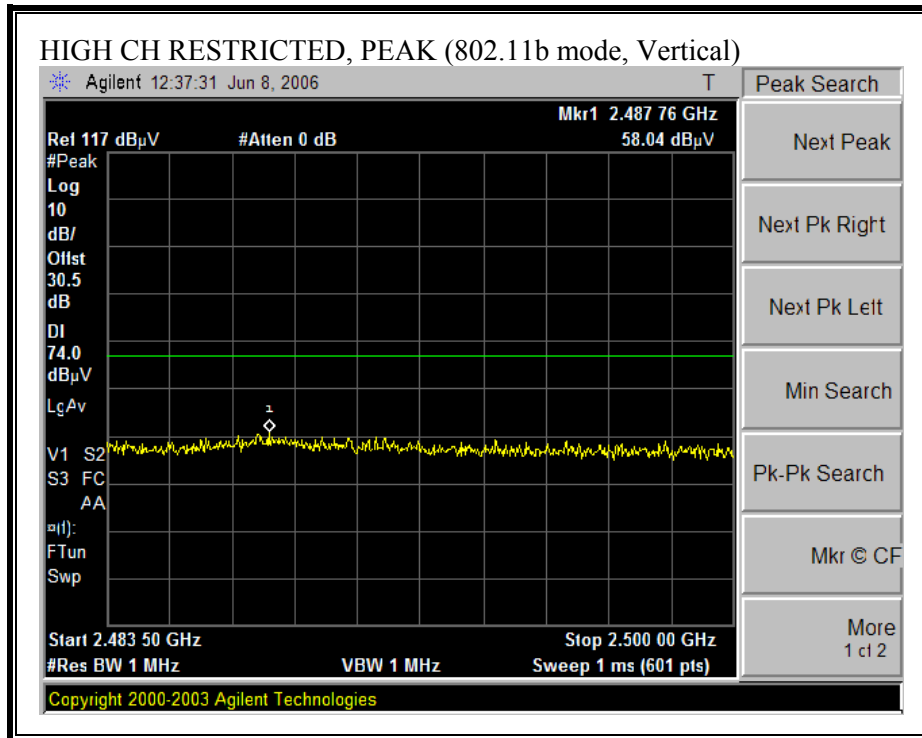


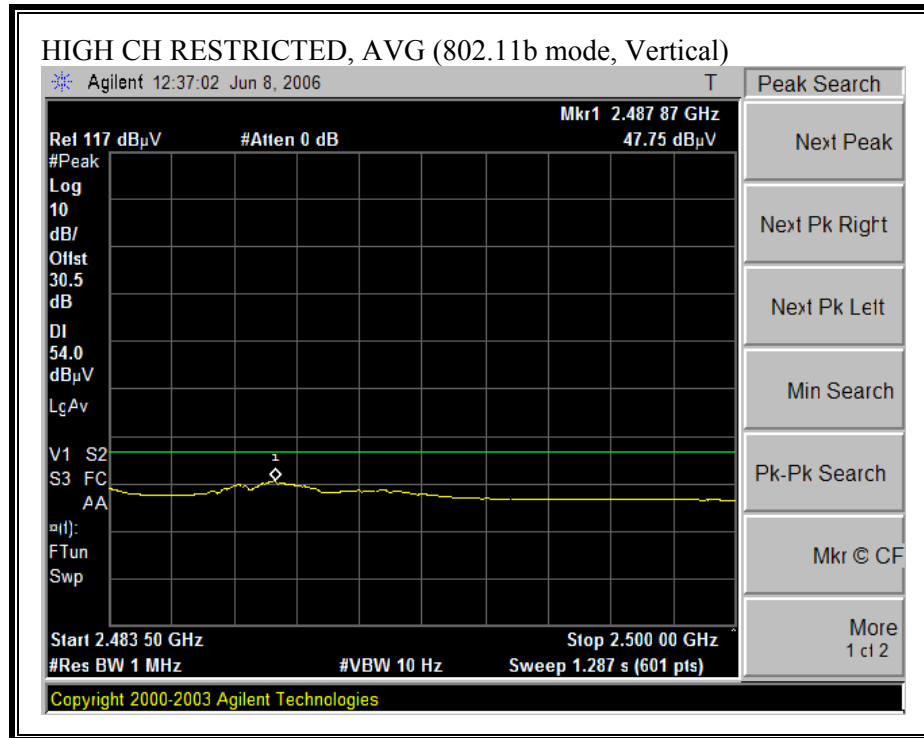
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

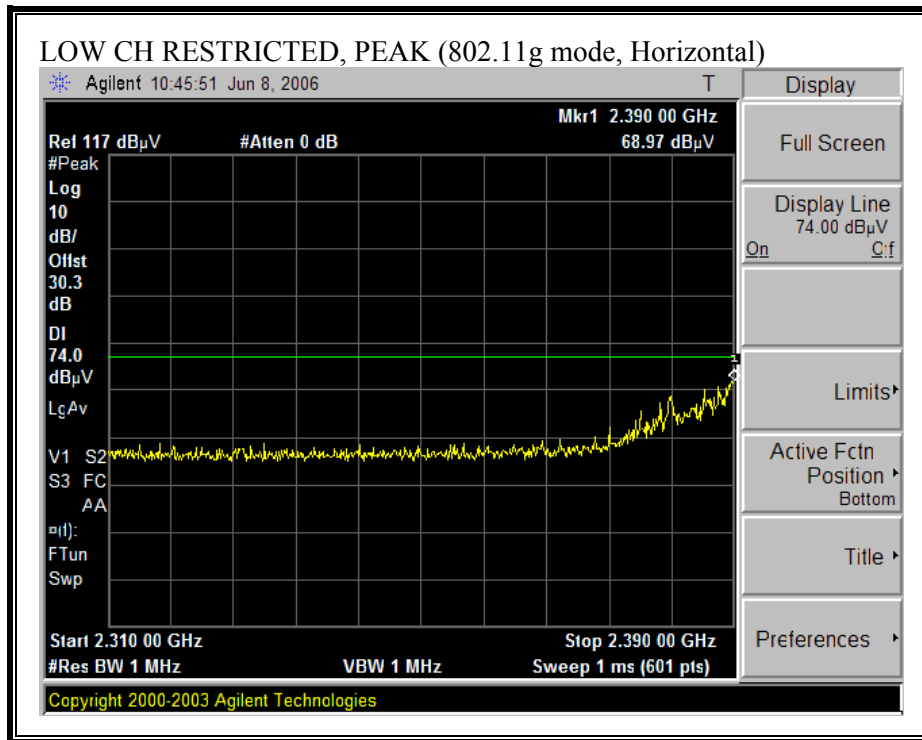


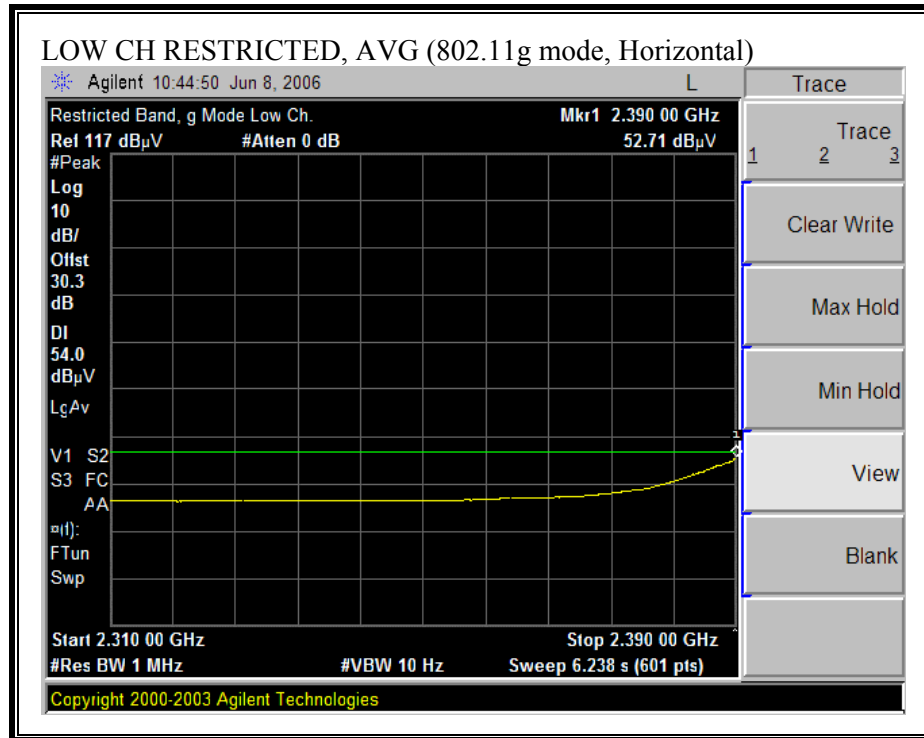


HARMONICS AND SPURIOUS EMISSIONS (802.11b MODE)

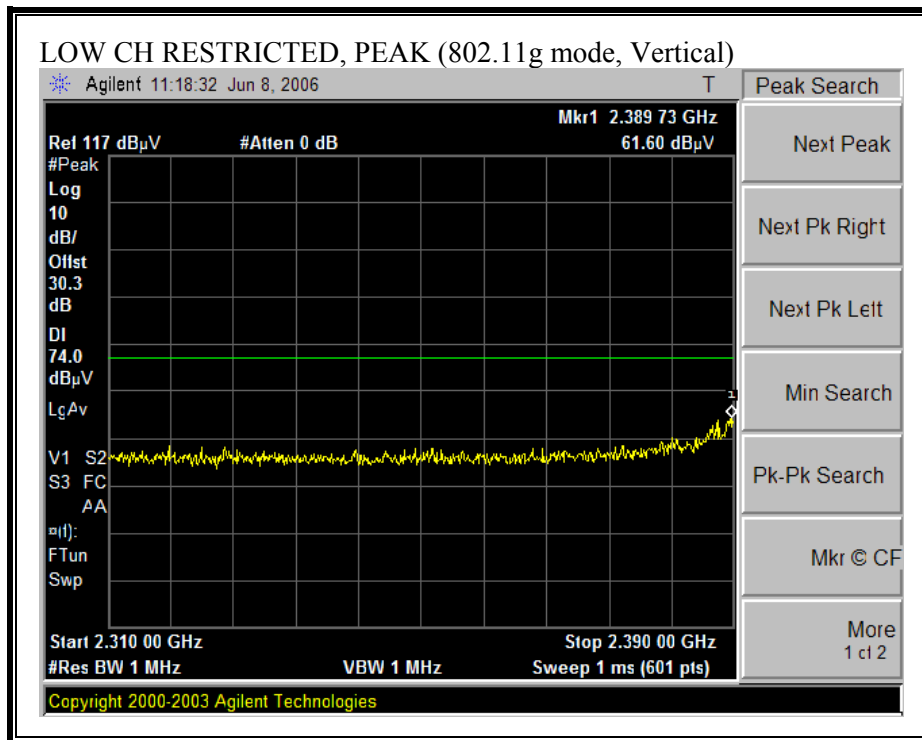
High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365																
Date: 06/14/2006																
Test Engineer: Chin Pang																
Configuration: EUT (XB72)																
Mode: B mode with EBJ antenna																
Average Power Meter: Low = 16.5 dBm, Mid = 20 dBm, High = 17 dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 2412 MHz																
4.824	3.0	50.0	45.8	33.0	3.2	-36.5	0.0	0.6	50.3	46.1	74	54	-23.7	-7.9	H	
4.824	3.0	48.5	43.0	33.0	3.2	-36.5	0.0	0.6	48.8	43.3	74	54	-25.2	-10.7	V	
MID CH, 2437 MHz																
4.874	3.0	49.0	43.5	33.1	3.2	-36.5	0.0	0.6	49.4	43.9	74	54	-24.6	-10.1	H	
7.311	3.0	47.0	40.0	35.5	3.6	-36.2	0.0	0.6	50.5	43.5	74	54	-23.5	-10.5	H	
12.185	3.0	43.0	32.0	37.4	4.6	-35.4	0.0	0.9	50.5	39.5	74	54	-23.5	-14.5	H	
4.874	3.0	47.7	40.0	33.1	3.2	-36.5	0.0	0.6	48.1	40.4	74	54	-25.9	-13.6	V	
7.311	3.0	44.0	33.0	35.5	3.6	-36.2	0.0	0.6	47.5	36.5	74	54	-26.5	-17.5	V	
12.185	3.0	43.5	31.6	37.4	4.6	-35.4	0.0	0.9	51.0	39.1	74	54	-23.0	-14.9	V	
HI CH, 2462 MHz																
4.924	3.0	45.0	33.8	33.1	3.2	-36.5	0.0	0.6	45.5	34.3	74	54	-28.5	-19.7	H	
7.386	3.0	42.8	34.0	35.6	3.6	-36.2	0.0	0.6	46.4	37.6	74	54	-27.6	-16.4	H	
4.924	3.0	44.4	33.2	33.1	3.2	-36.5	0.0	0.6	44.9	33.7	74	54	-29.1	-20.3	V	
7.386	3.0	43.0	31.0	35.6	3.6	-36.2	0.0	0.6	46.6	34.6	74	54	-27.4	-19.4	V	
No other emissions were detected above system noise floor																
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim		Average Field Strength Limit								
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim		Peak Field Strength Limit								
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Mar		Margin vs. Average Limit								
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Mar		Margin vs. Peak Limit								
CL	Cable Loss		HPF	High Pass Filter												

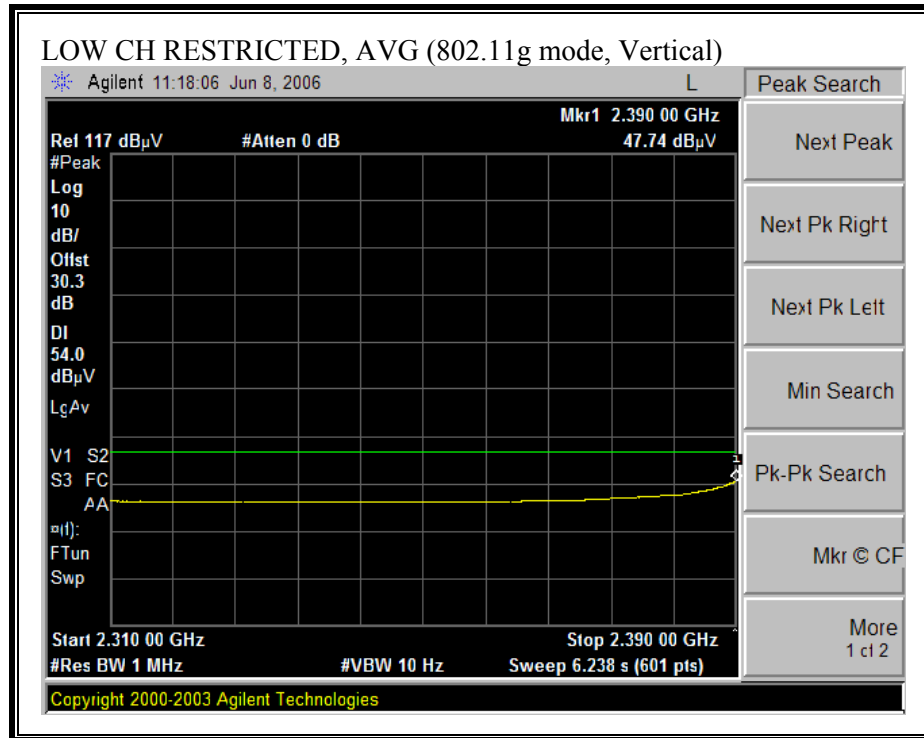
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



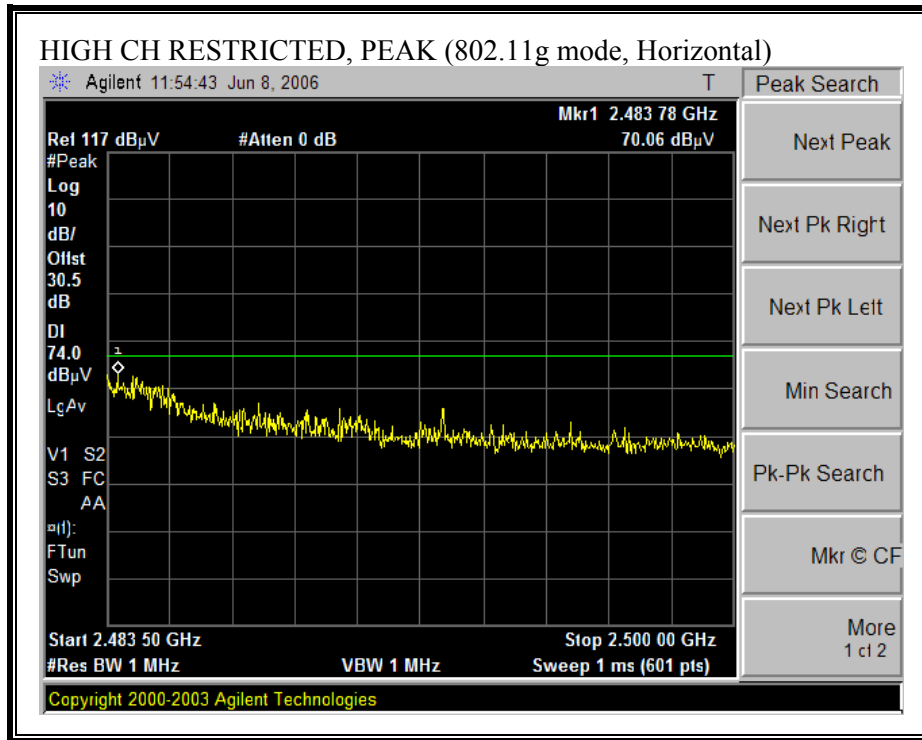


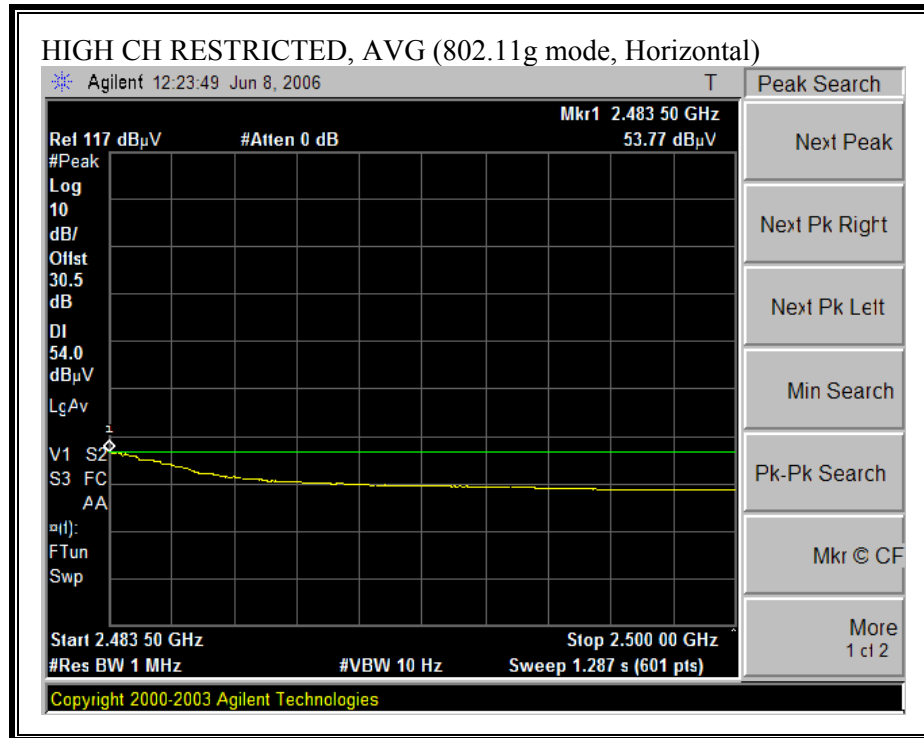
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



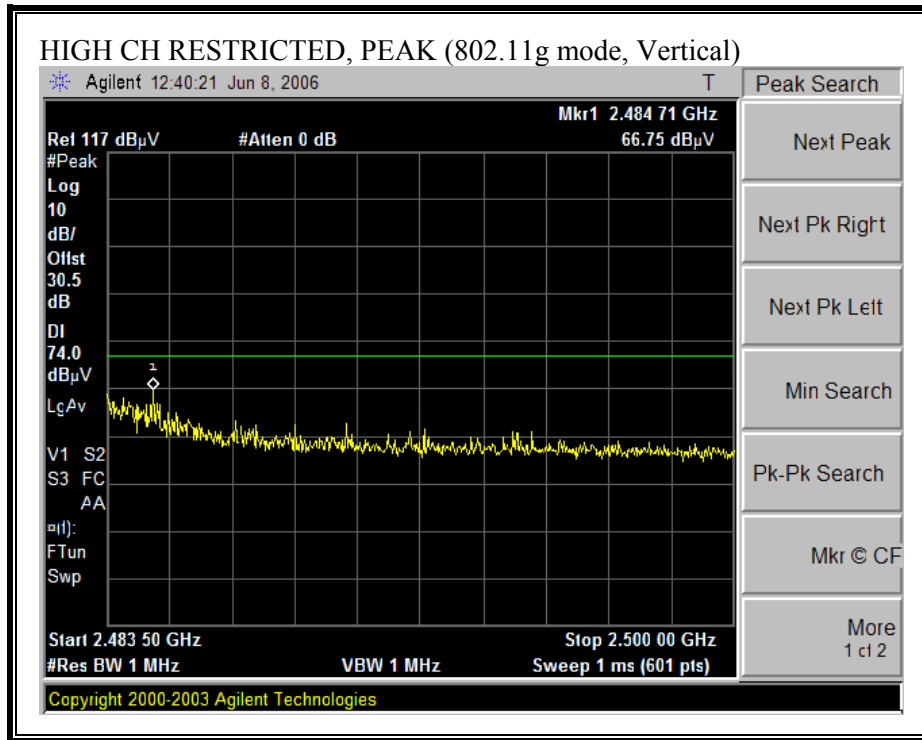


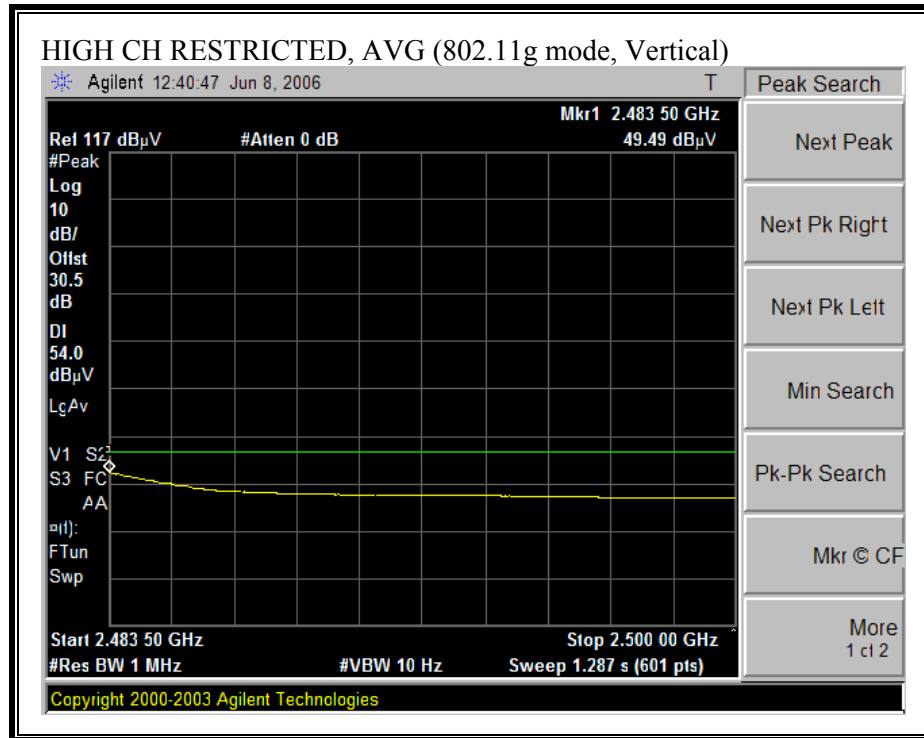
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)

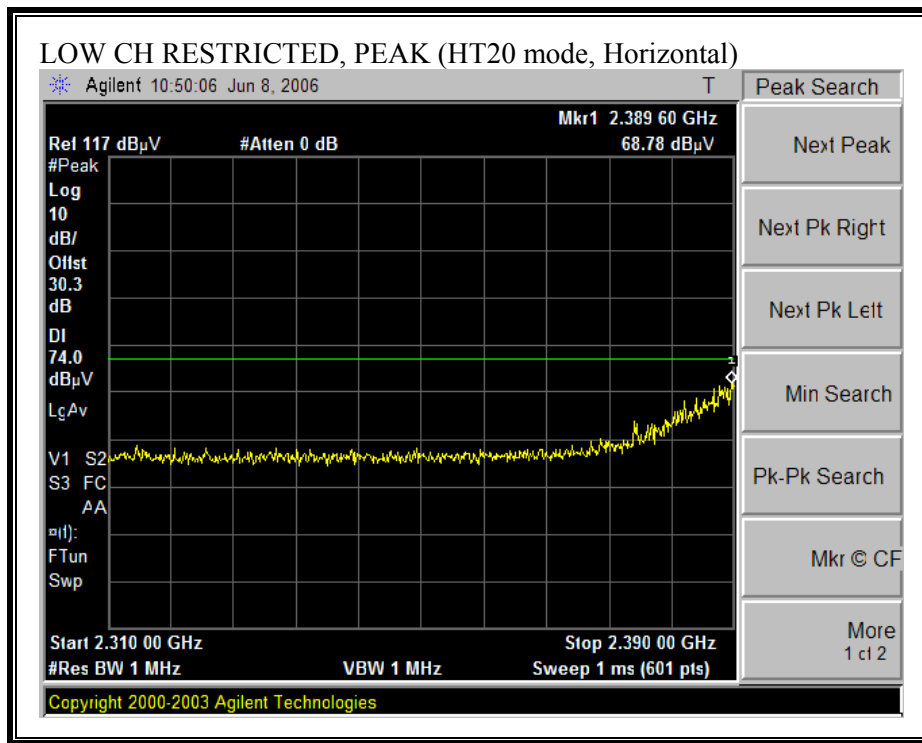


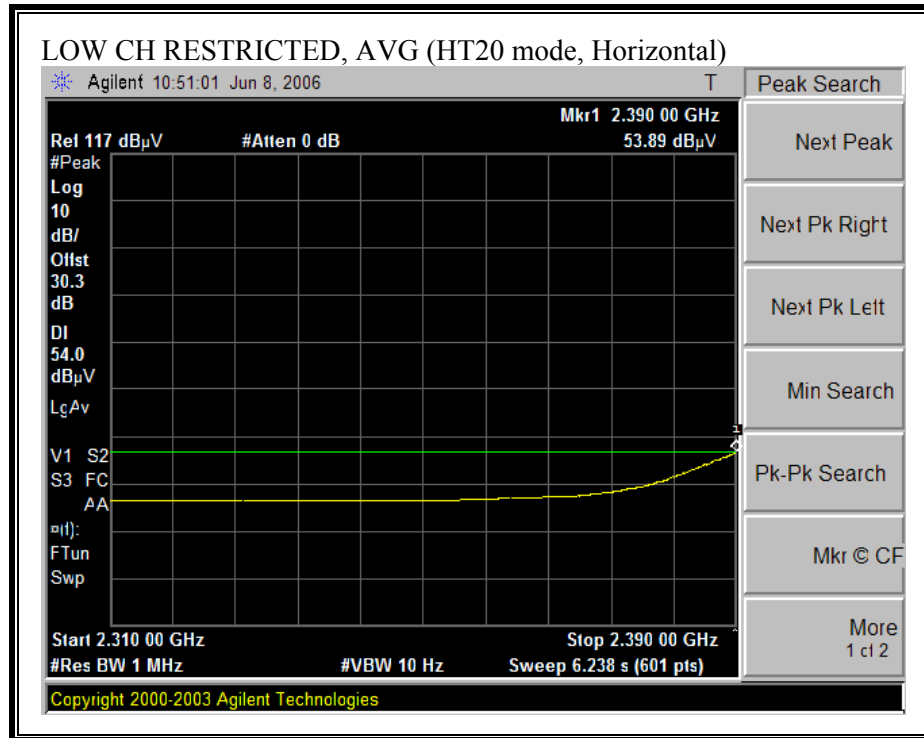


HARMONICS AND SPURIOUS EMISSIONS (802.11g MODE)

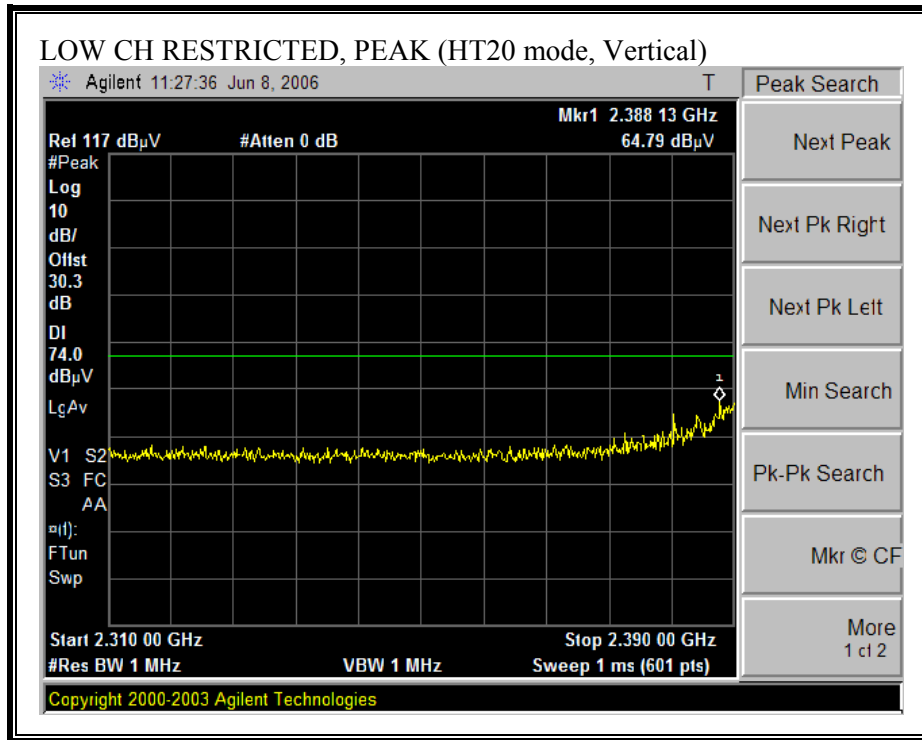
High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365																
Date: 06/14/2006																
Test Engineer: Chin Pang																
Configuration: EUT (XB72)																
Mode: g mode with EBJ antenna																
Average Power Meter: Low = 16.5 dBm, Mid = 20 dBm, High = 17 dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 2412 MHz																
4.824	3.0	47.0	35.0	33.0	3.2	-36.5	0.0	0.6	47.3	35.3	74	54	-26.7	-18.7	H	
4.824	3.0	46.2	34.0	33.0	3.2	-36.5	0.0	0.6	46.5	34.3	74	54	-27.5	-19.7	V	
MID CH, 2437 MHz																
4.874	3.0	46.0	34.7	33.1	3.2	-36.5	0.0	0.6	46.4	35.1	74	54	-27.6	-18.9	H	
7.311	3.0	46.3	34.2	35.5	3.6	-36.2	0.0	0.6	49.8	37.7	74	54	-24.2	-16.3	H	
4.874	3.0	45.0	32.5	33.1	3.2	-36.5	0.0	0.6	45.4	32.9	74	54	-28.6	-21.1	V	
7.311	3.0	43.0	32.0	35.5	3.6	-36.2	0.0	0.6	46.5	35.5	74	54	-27.5	-18.5	V	
HI CH, 2462 MHz																
4.924	3.0	43.5	32.6	33.1	3.2	-36.5	0.0	0.6	44.0	33.1	74	54	-30.0	-20.9	H	
7.386	3.0	43.0	32.0	35.6	3.6	-36.2	0.0	0.6	46.6	35.6	74	54	-27.4	-18.4	H	
4.924	3.0	43.0	31.5	33.1	3.2	-36.5	0.0	0.6	43.5	32.0	74	54	-30.5	-22.0	V	
7.386	3.0	42.3	31.3	35.6	3.6	-36.2	0.0	0.6	45.9	34.9	74	54	-28.1	-19.1	V	
No other emissions were detected above system noise floor																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

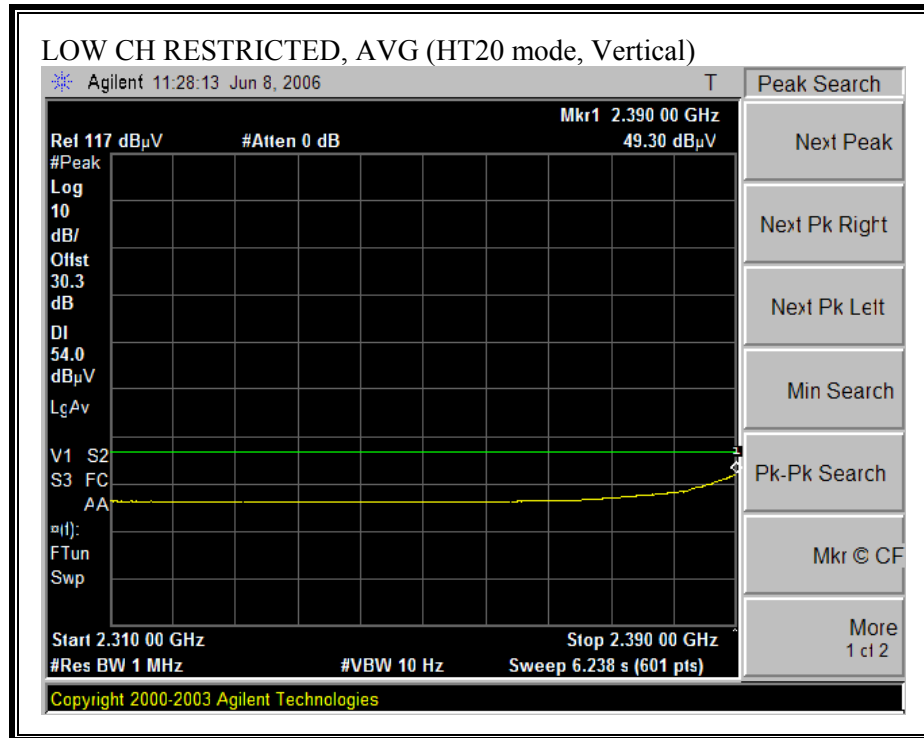
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, HORIZONTAL)



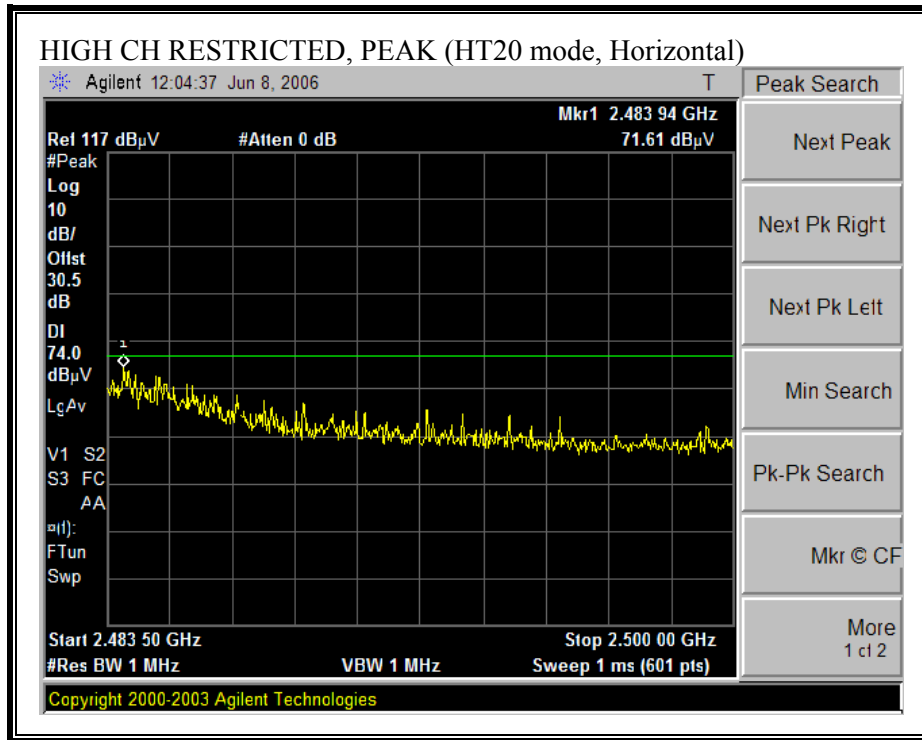


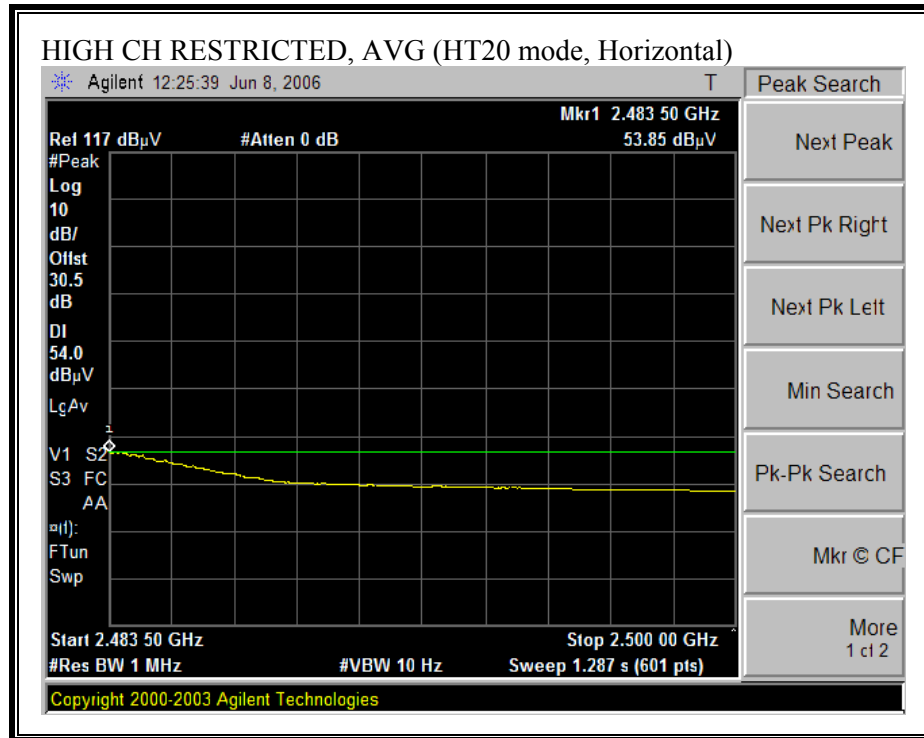
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, VERTICAL)



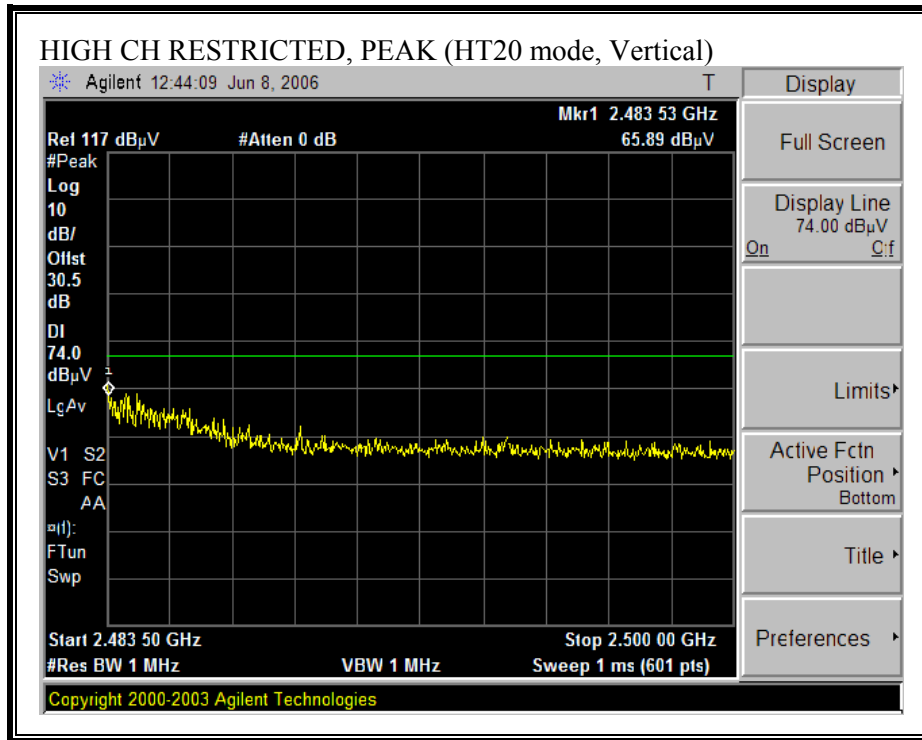


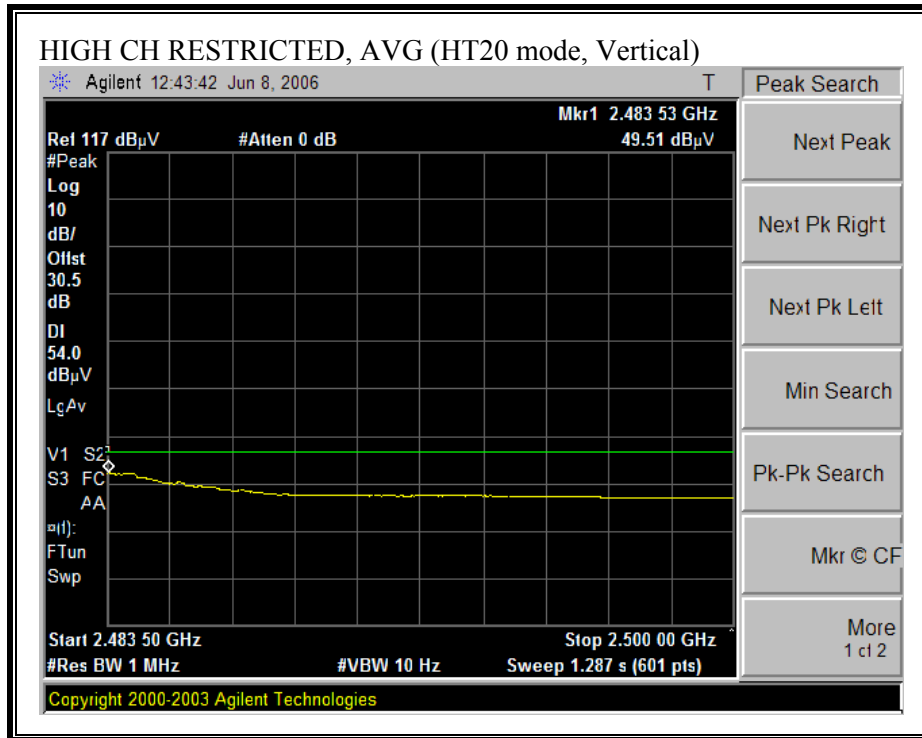
RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, VERTICAL)

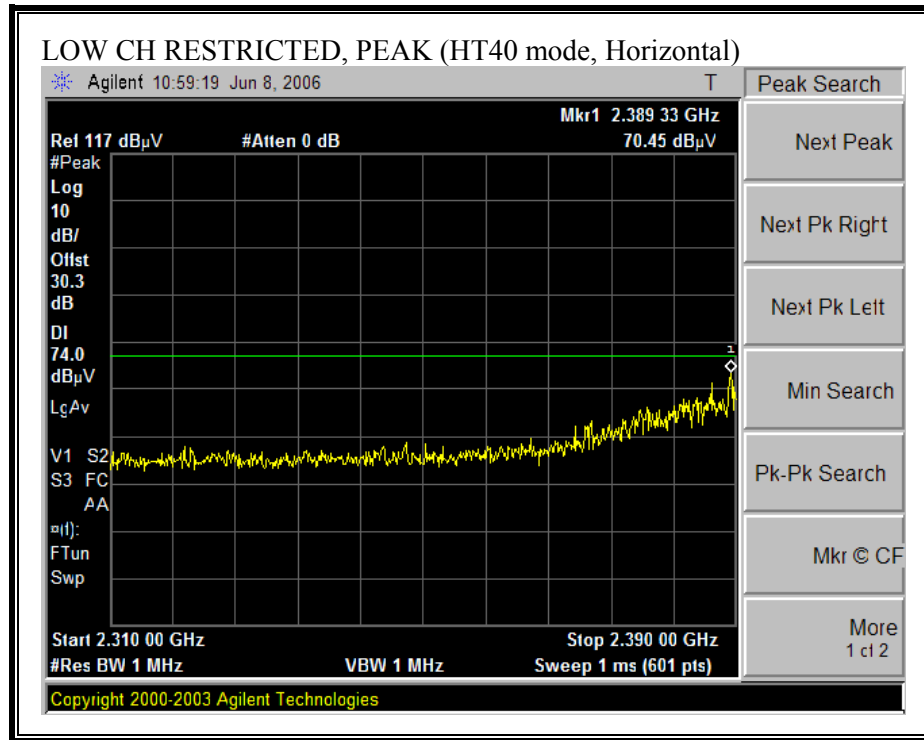


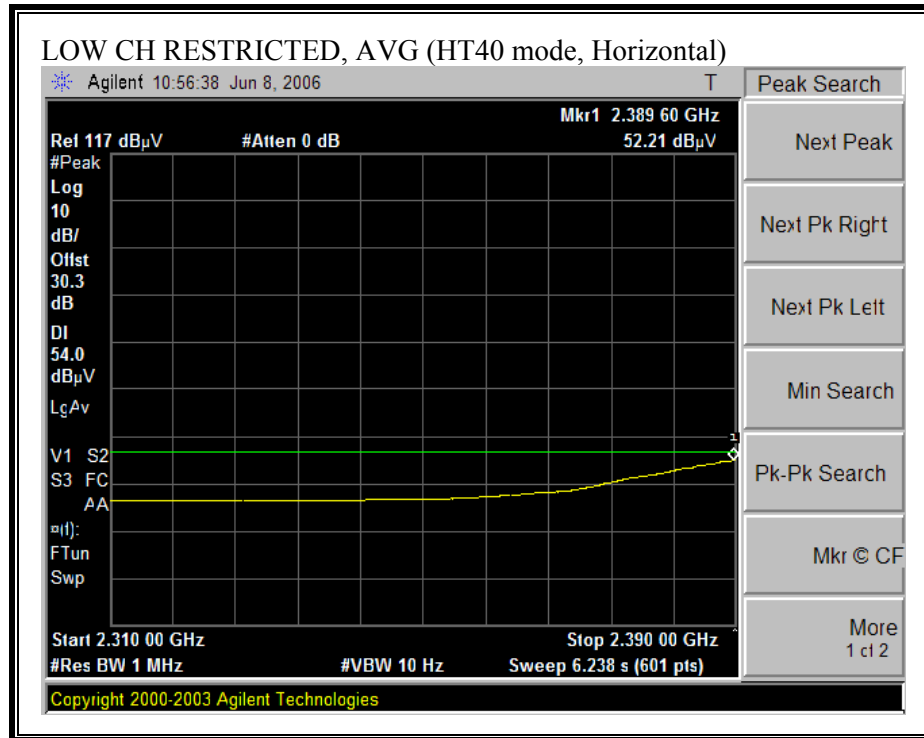


HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)

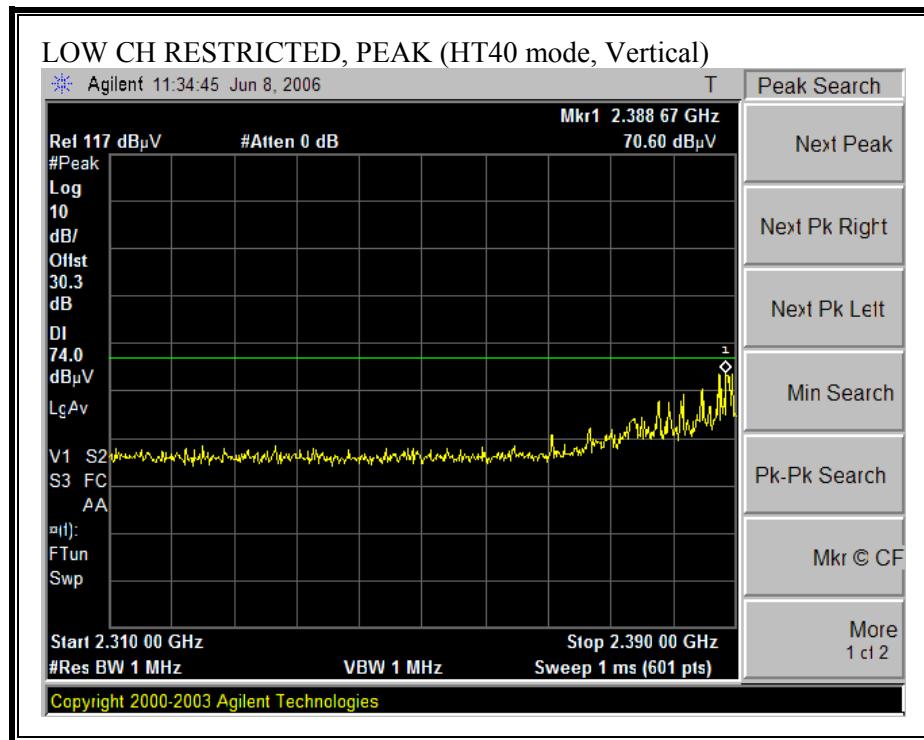
High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365																
Date: 06/14/2006																
Test Engineer: Chin Pang																
Configuration: EUT (XB72)																
Mode: HT20 mode with EBJ antenna																
Average Power Meter: Low = 15 dBm, Mid = 20 dBm, High = 14 dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 2412 MHz																
4.824	3.0	46.5	35.0	33.0	3.2	-36.5	0.0	0.6	46.8	35.3	74	54	-27.2	-18.7	H	
4.824	3.0	46.0	34.4	33.0	3.2	-36.5	0.0	0.6	46.3	34.7	74	54	-27.7	-19.3	V	
MID CH, 2437 MHz																
4.874	3.0	47.5	34.3	33.1	3.2	-36.5	0.0	0.6	47.9	34.7	74	54	-26.1	-19.3	H	
7.311	3.0	45.6	33.4	35.5	3.6	-36.2	0.0	0.6	49.1	36.9	74	54	-24.9	-17.1	H	
4.874	3.0	45.3	32.0	33.1	3.2	-36.5	0.0	0.6	45.7	32.4	74	54	-28.3	-21.6	V	
7.311	3.0	43.2	32.0	35.5	3.6	-36.2	0.0	0.6	46.7	35.5	74	54	-27.3	-18.5	V	
HI CH, 2462 MHz																
4.924	3.0	43.4	32.0	33.1	3.2	-36.5	0.0	0.6	43.9	32.5	74	54	-30.1	-21.5	H	
7.386	3.0	44.0	32.3	35.6	3.6	-36.2	0.0	0.6	47.6	35.9	74	54	-26.4	-18.1	H	
4.924	3.0	43.0	31.4	33.1	3.2	-36.5	0.0	0.6	43.5	31.9	74	54	-30.5	-22.1	V	
7.386	3.0	43.4	31.6	35.6	3.6	-36.2	0.0	0.6	47.0	35.2	74	54	-27.0	-18.8	V	
No other emissions were detected above system noise floor																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

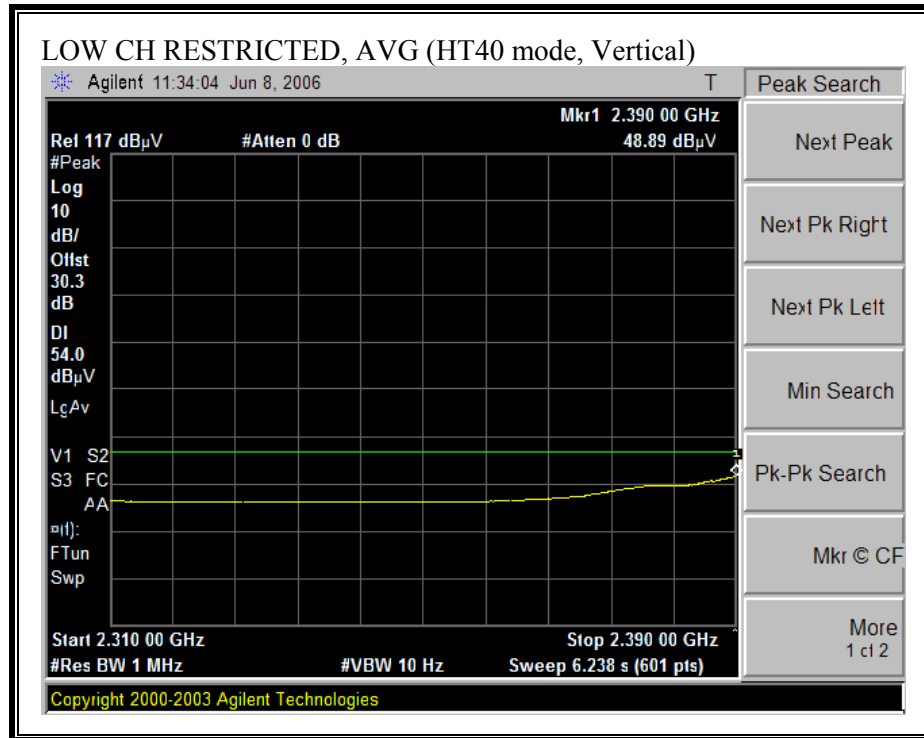
RESTRICTED BANEDGE (HT40 MODE, LOW CHANNEL, HORIZONTAL)



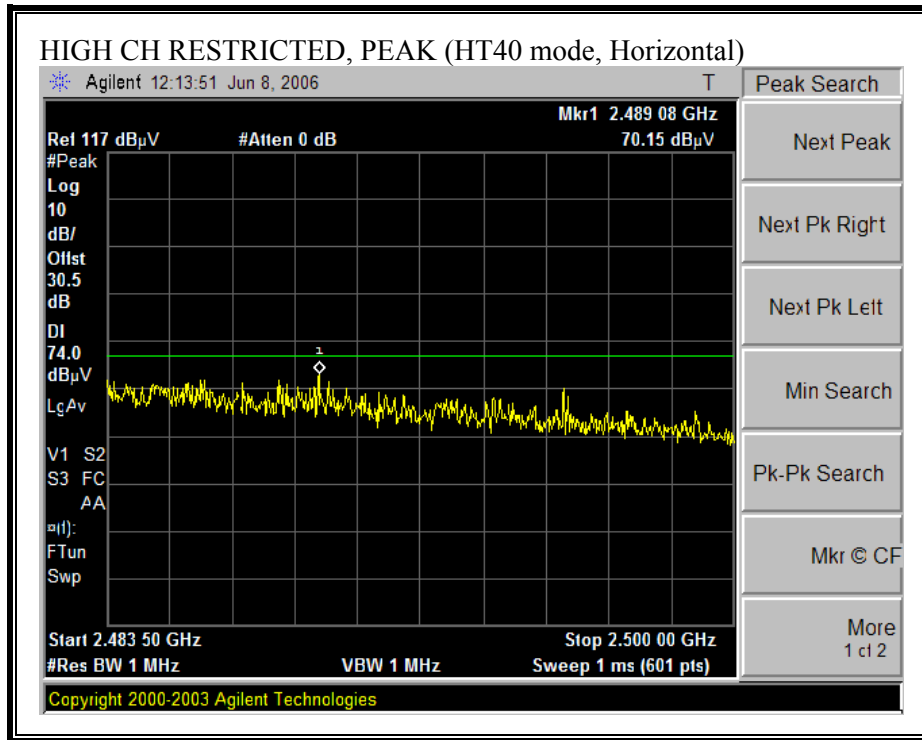


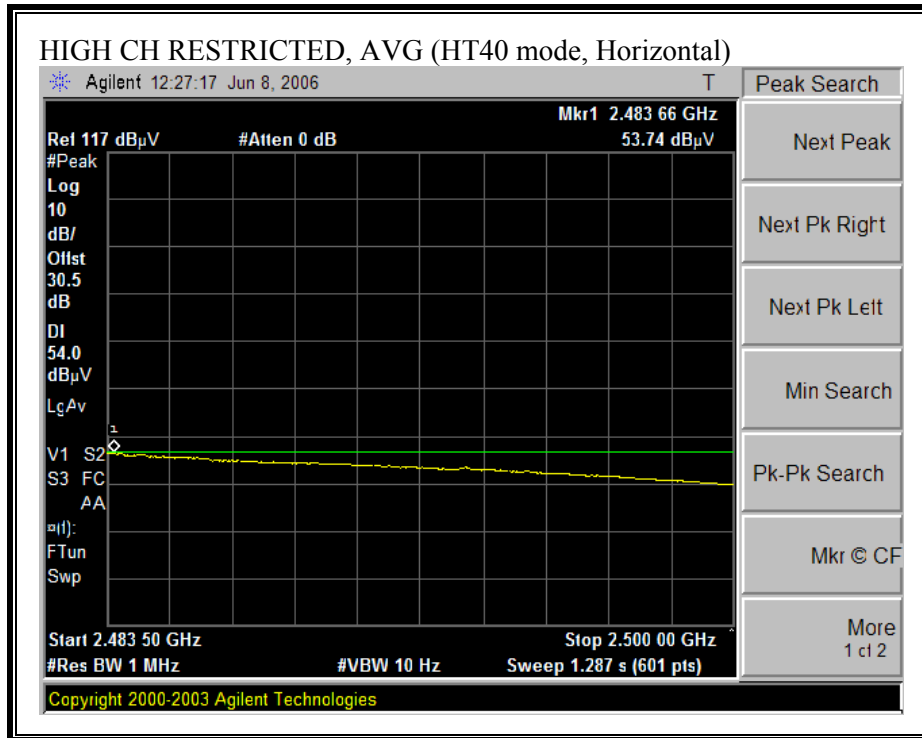
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, VERTICAL)



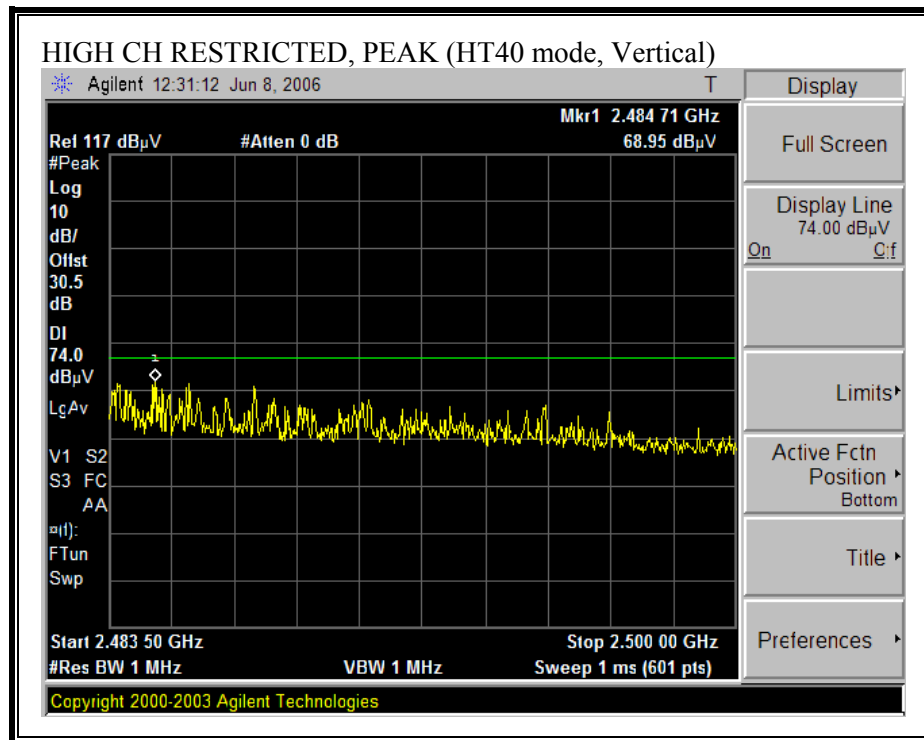


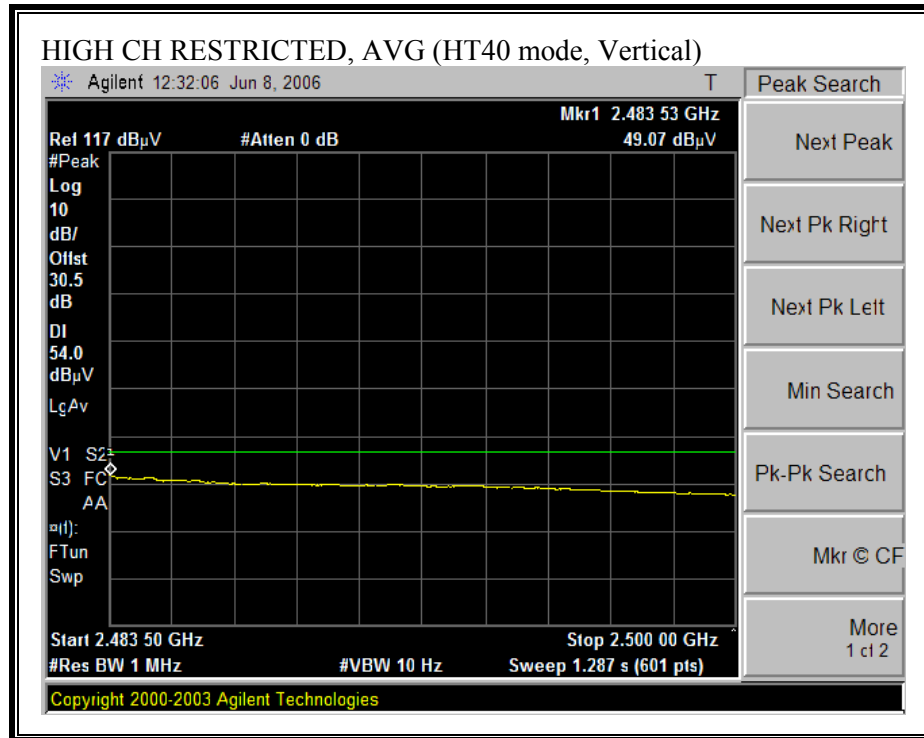
RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, VERTICAL)



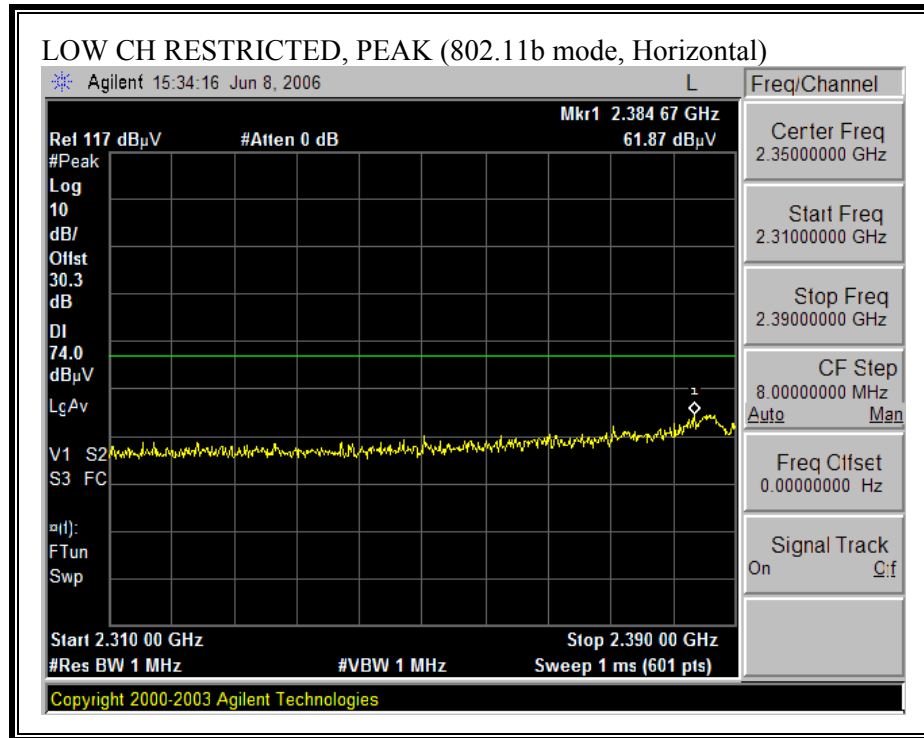


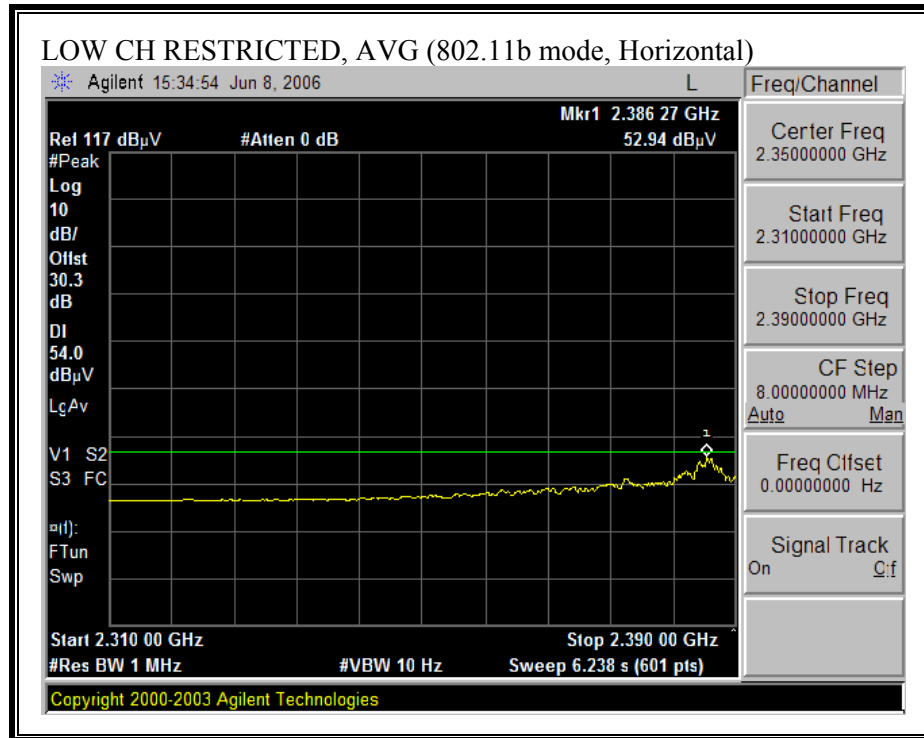
HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365																
Date: 06/14/2006																
Test Engineer: Chin Pang																
Configuration: EUT (XB72)																
Mode: HT40 mode with EBJ antenna																
Average Power Meter: Low = 15 dBm, Mid = 20 dBm, High = 14 dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
LOW CH, 2422 MHz																
4.824	3.0	45.5	33.0	33.0	3.2	-36.5	0.0	0.6	45.8	33.3	74	54	-28.2	-20.7	H	
4.824	3.0	43.7	32.0	33.0	3.2	-36.5	0.0	0.6	44.0	32.3	74	54	-30.0	-21.7	V	
MID CH, 2437 MHz																
4.874	3.0	46.6	34.0	33.1	3.2	-36.5	0.0	0.6	47.0	34.4	74	54	-27.0	-19.6	H	
7.311	3.0	43.8	32.0	35.5	3.6	-36.2	0.0	0.6	47.3	35.5	74	54	-26.7	-18.5	H	
4.874	3.0	45.5	33.5	33.1	3.2	-36.5	0.0	0.6	45.9	33.9	74	54	-28.1	-20.1	V	
7.311	3.0	44.0	31.3	35.5	3.6	-36.2	0.0	0.6	47.5	34.8	74	54	-26.5	-19.2	V	
HI CH, 2452 MHz																
4.904	3.0	45.8	33.5	33.1	3.2	-36.5	0.0	0.6	46.3	34.0	74	54	-27.7	-20.0	H	
7.356	3.0	44.0	32.0	35.5	3.6	-36.2	0.0	0.6	47.5	35.5	74	54	-26.5	-18.5	H	
4.904	3.0	43.5	31.7	33.1	3.2	-36.5	0.0	0.6	44.0	32.2	74	54	-30.0	-21.8	V	
7.356	3.0	42.0	32.0	35.5	3.6	-36.2	0.0	0.6	45.5	35.5	74	54	-28.5	-18.5	V	
No other emissions were detected above system noise floor																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

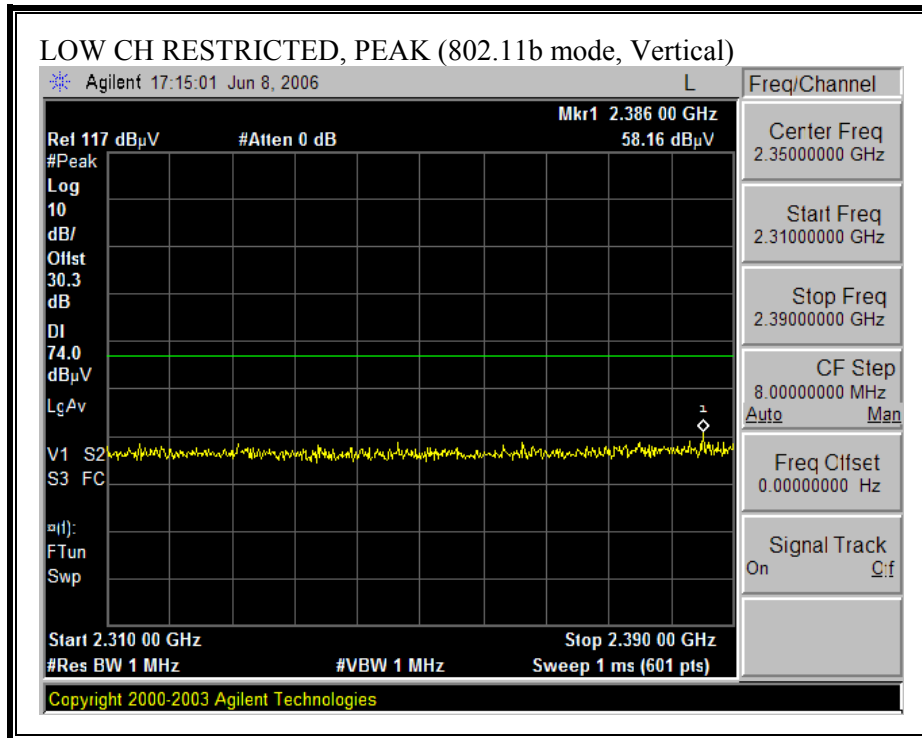
7.4.3. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND WITH MONOPOLE ANTENNAS

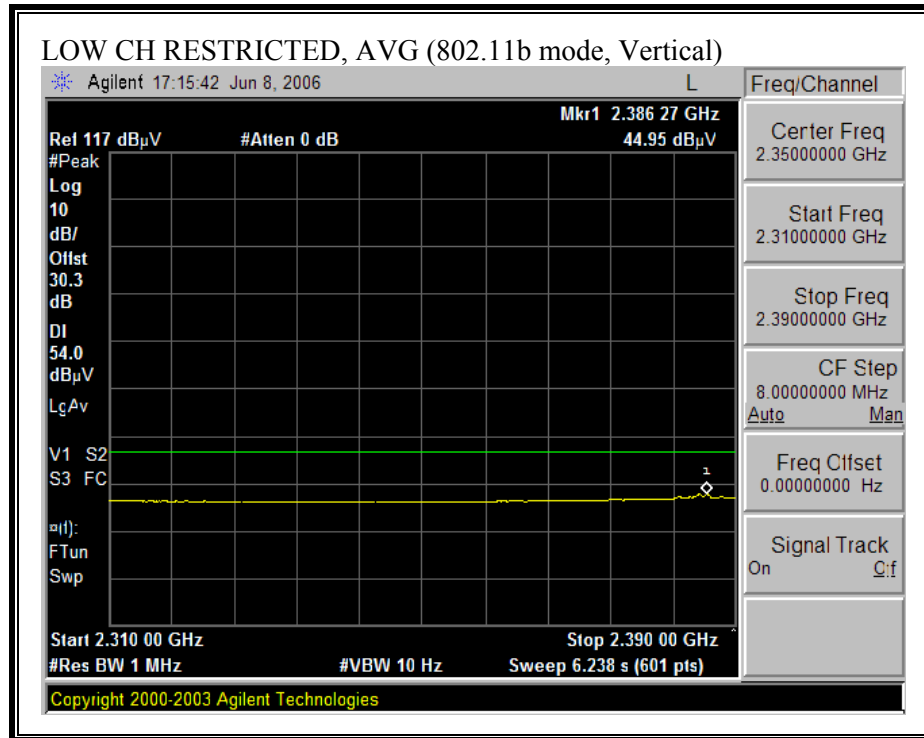
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)



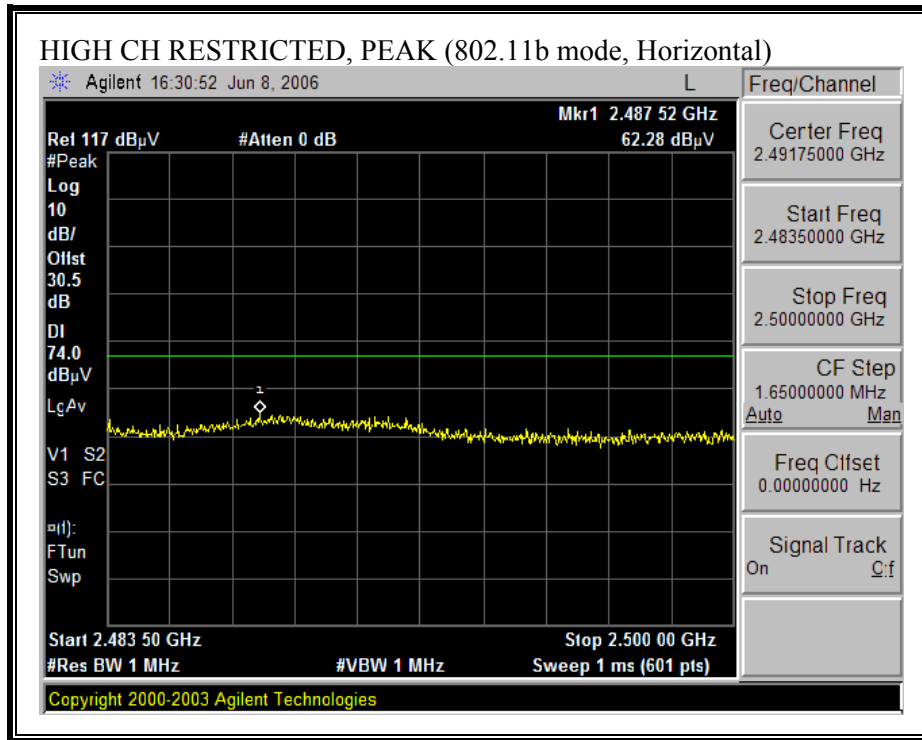


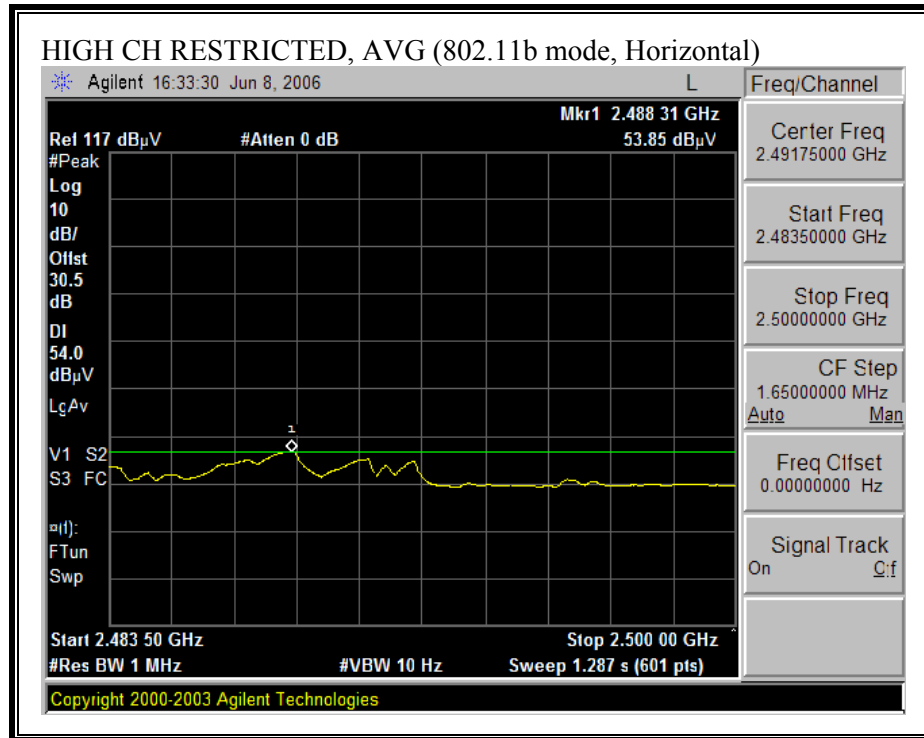
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)



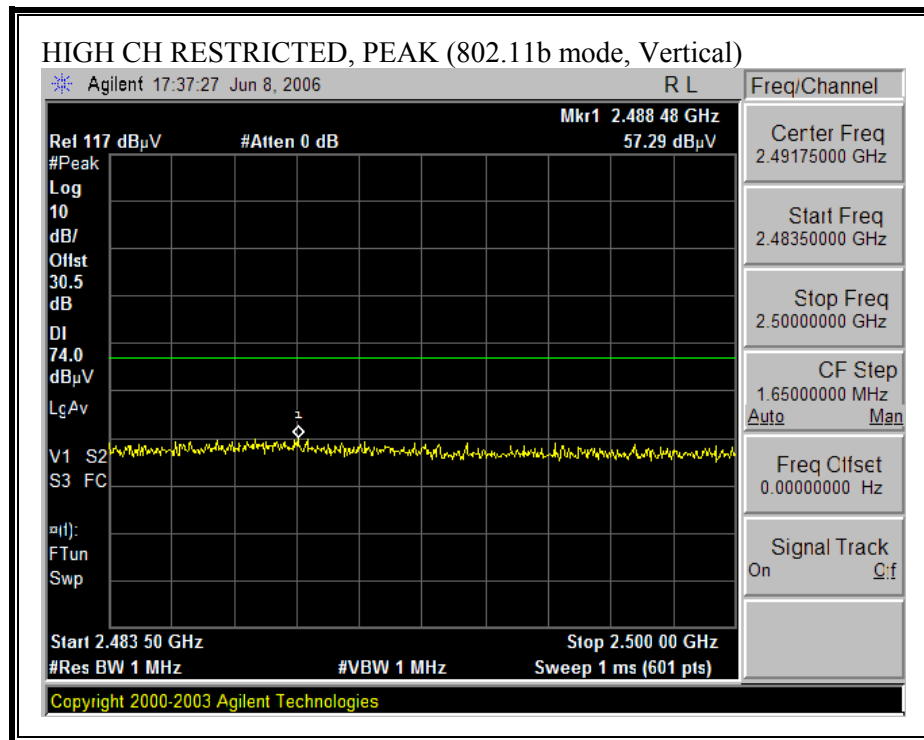


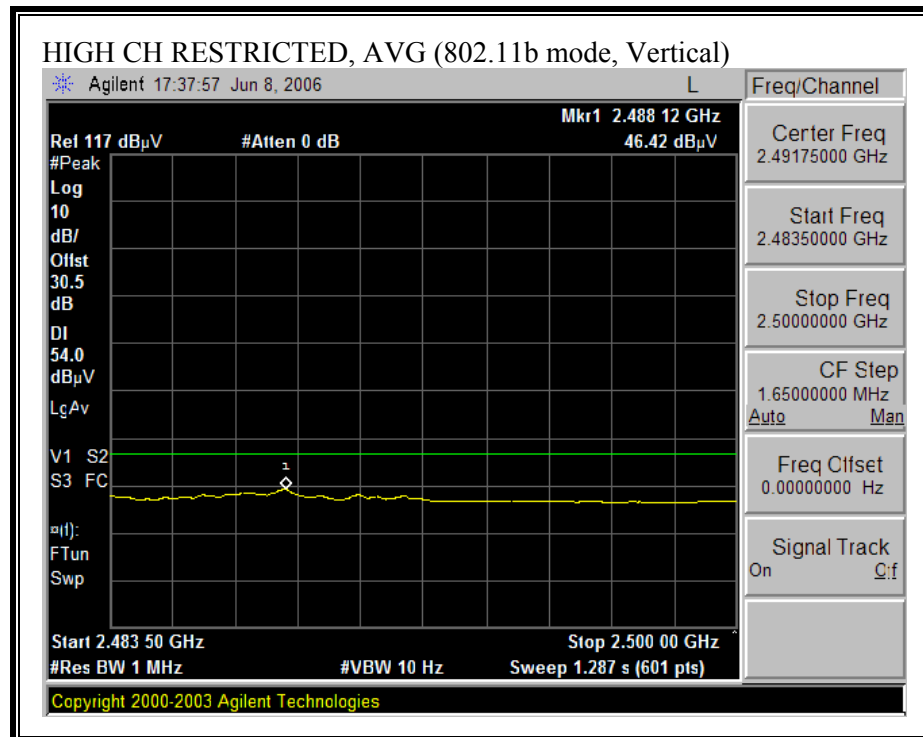
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)

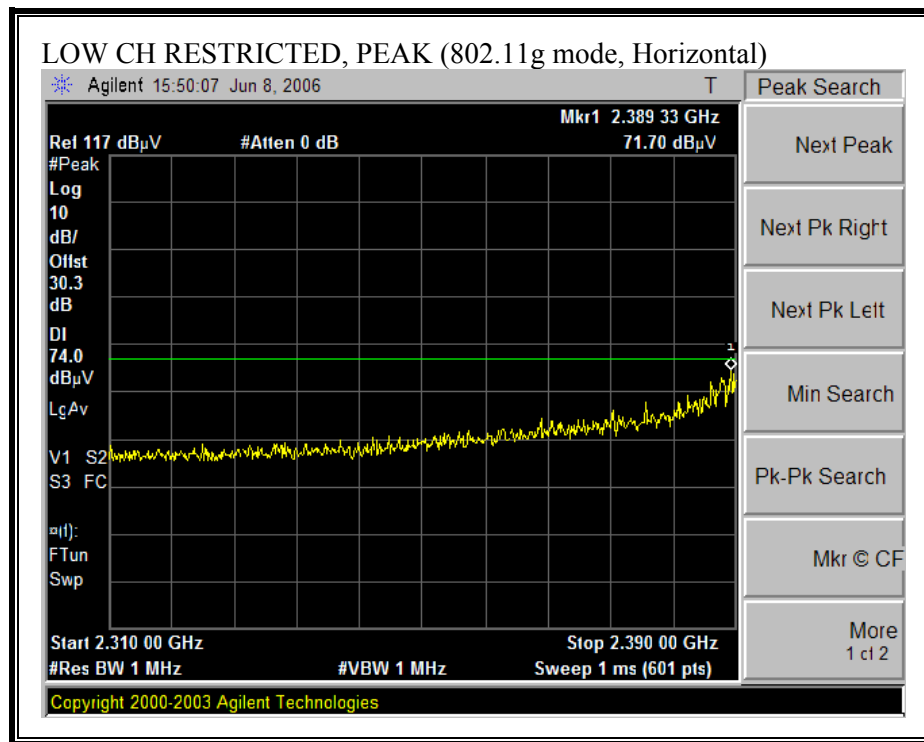


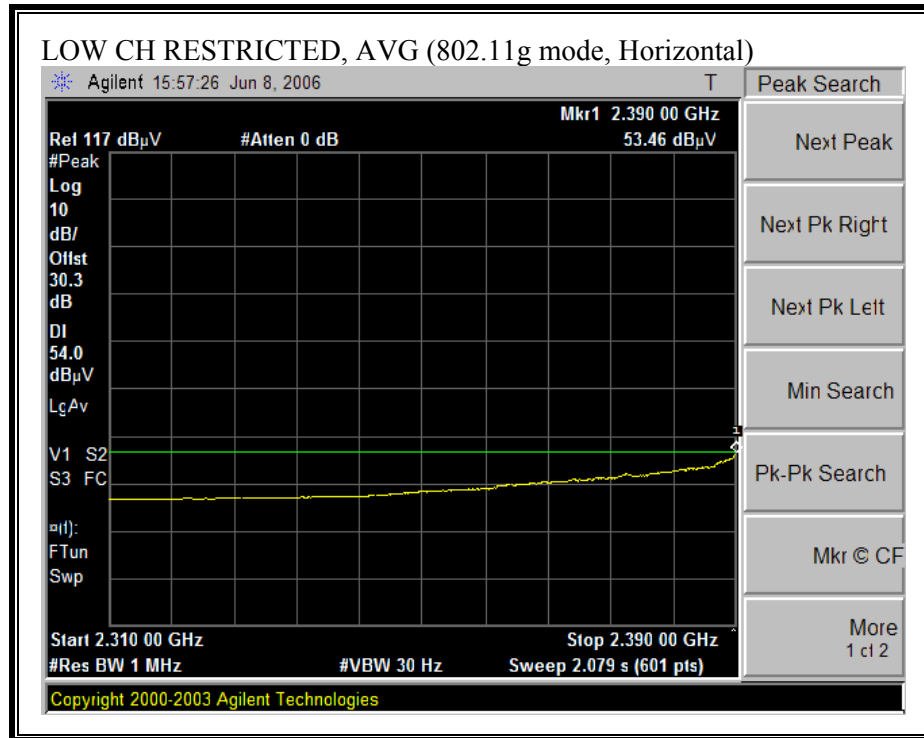


HARMONICS AND SPURIOUS EMISSIONS (802.11b MODE)

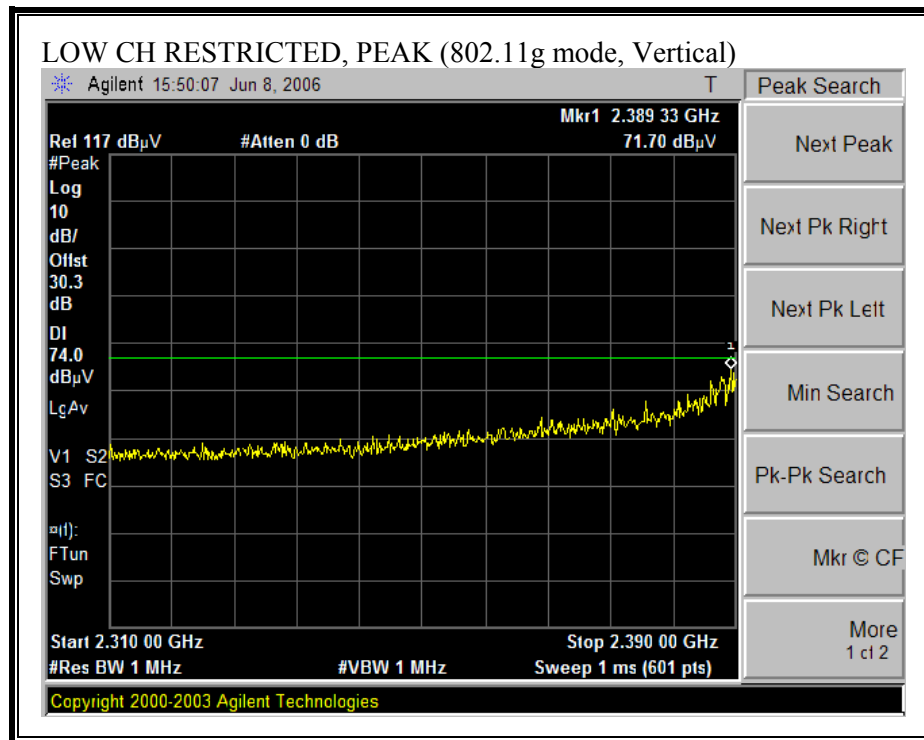
High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company: Atheros															
Project #: 06U10365-1															
Date: June 14, 2006															
Test Engineer: Chin Pang															
Configuration: EUT/Foxconn antenna															
Mode: TX, b mode															
Average Power Meter: Low = 16.5 dBm, Mid = 20dBm, High = 17dBm															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit							
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
		Chin 197538001		Chin 200354001		HPF_4.0GHz									
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch															
4.824	3.0	47.0	42.0	33.0	3.2	-36.5	0.0	0.6	47.3	42.3	74	54	-26.7	-11.7	V
4.824	3.0	48.0	43.0	33.0	3.2	-36.5	0.0	0.6	48.3	43.3	74	54	-25.7	-10.7	H
Mid Ch															
4.874	3.0	52.0	47.0	33.1	3.2	-36.5	0.0	0.6	52.4	47.4	74	54	-21.6	-6.6	V
7.311	3.0	42.0	31.3	35.5	3.6	-36.2	0.0	0.6	48.5	34.8	74	54	-28.5	-19.2	V
4.874	3.0	50.4	46.7	33.1	3.2	-36.5	0.0	0.6	50.8	47.1	74	54	-23.2	-6.9	H
7.311	3.0	46.5	34.0	35.5	3.6	-36.2	0.0	0.6	50.0	37.5	74	54	-24.0	-16.5	H
High Ch															
4.924	3.0	48.0	42.0	33.1	3.2	-36.5	0.0	0.6	48.5	42.5	74	54	-25.5	-11.5	V
7.386	3.0	43.0	31.6	35.6	3.6	-36.2	0.0	0.6	46.6	35.2	74	54	-27.4	-18.8	V
4.924	3.0	47.6	41.5	33.1	3.2	-36.5	0.0	0.6	48.1	42.0	74	54	-25.9	-12.0	H
7.386	3.0	44.3	33.2	35.6	3.6	-36.2	0.0	0.6	47.9	36.8	74	54	-26.1	-17.2	H
Rev. 5.1.6															
Note: No other emissions were detected above the system noise floor.															
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss			HPF	High Pass Filter										

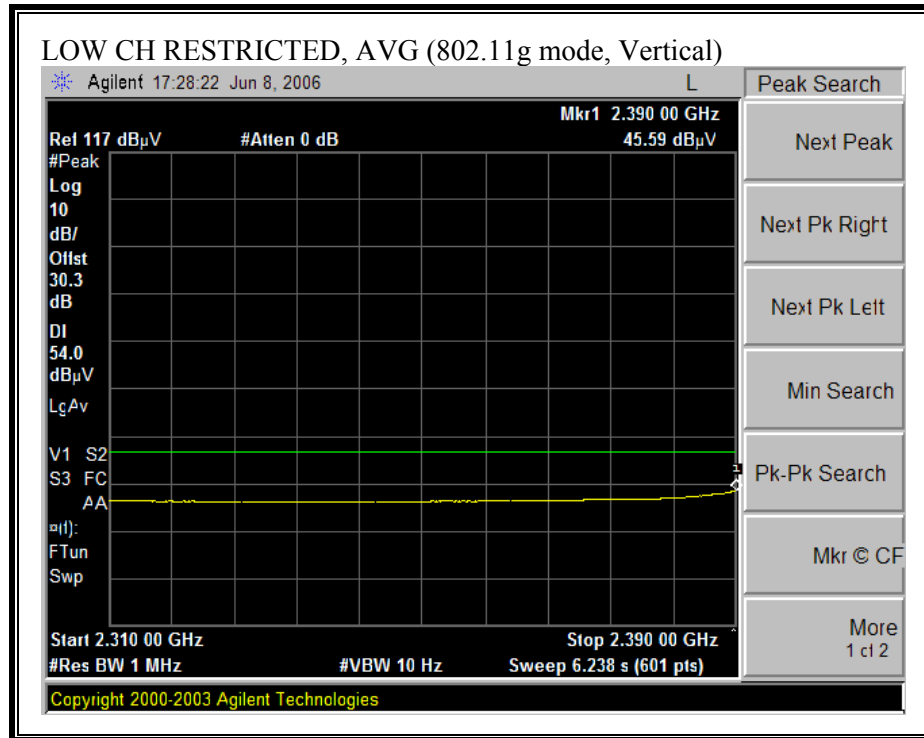
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, HORIZONTAL)



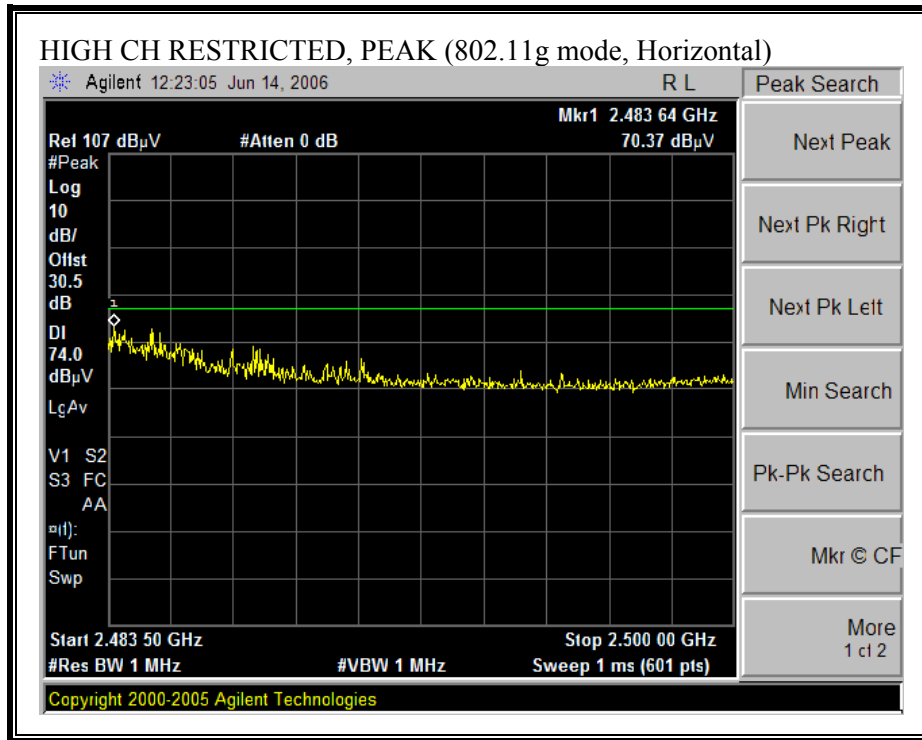


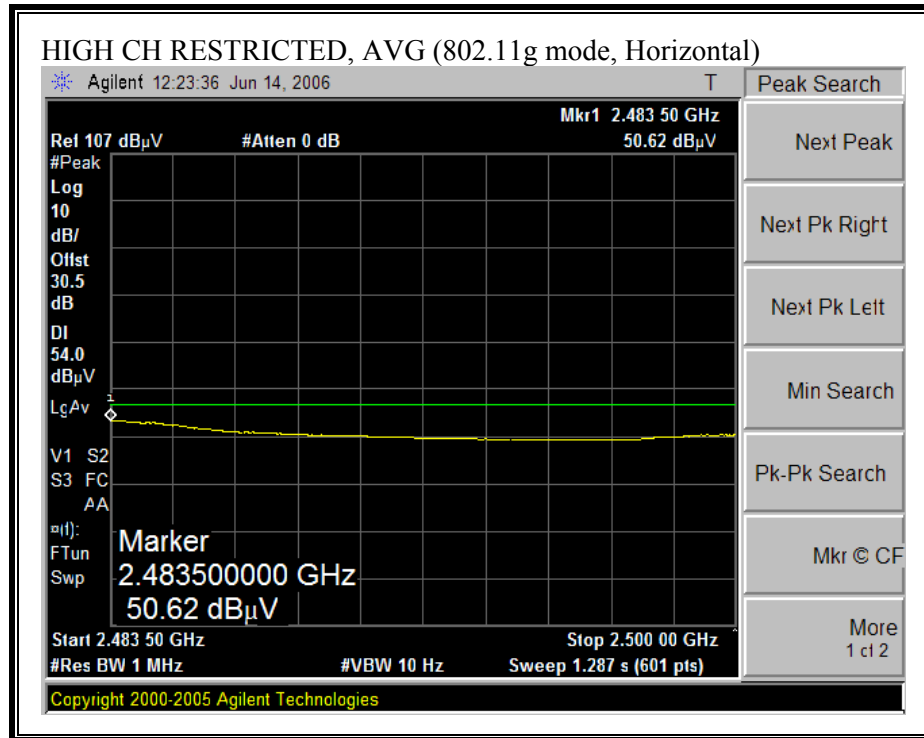
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL, VERTICAL)



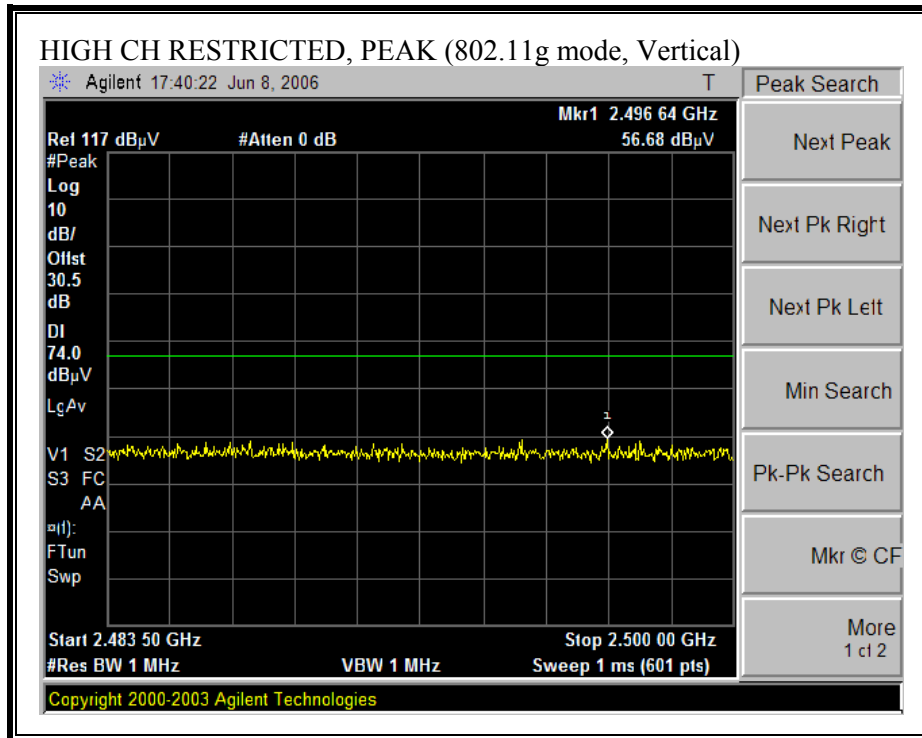


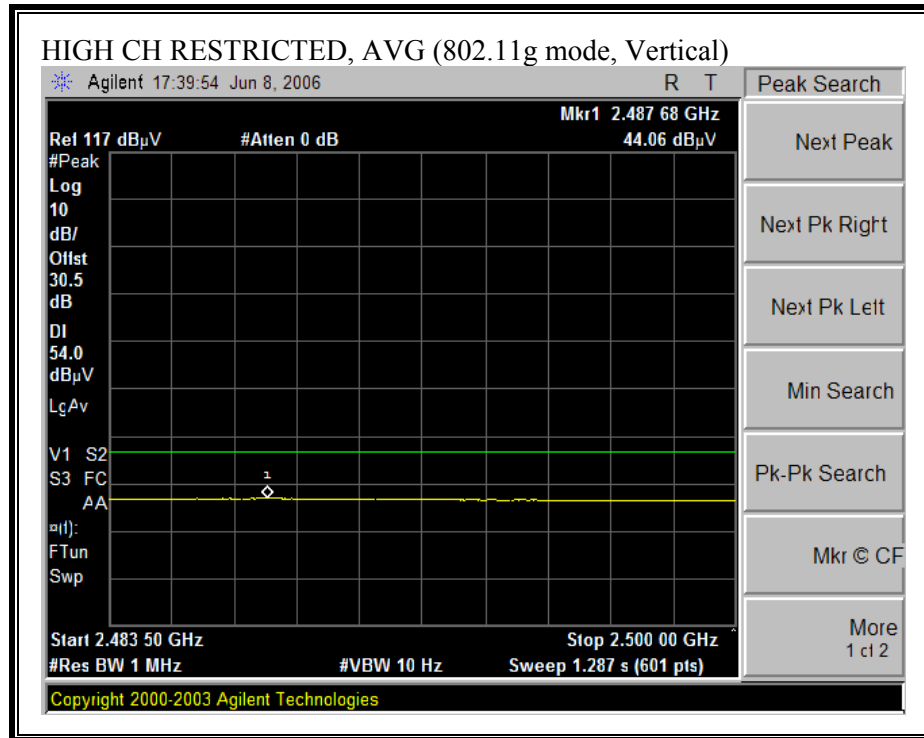
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL, VERTICAL)

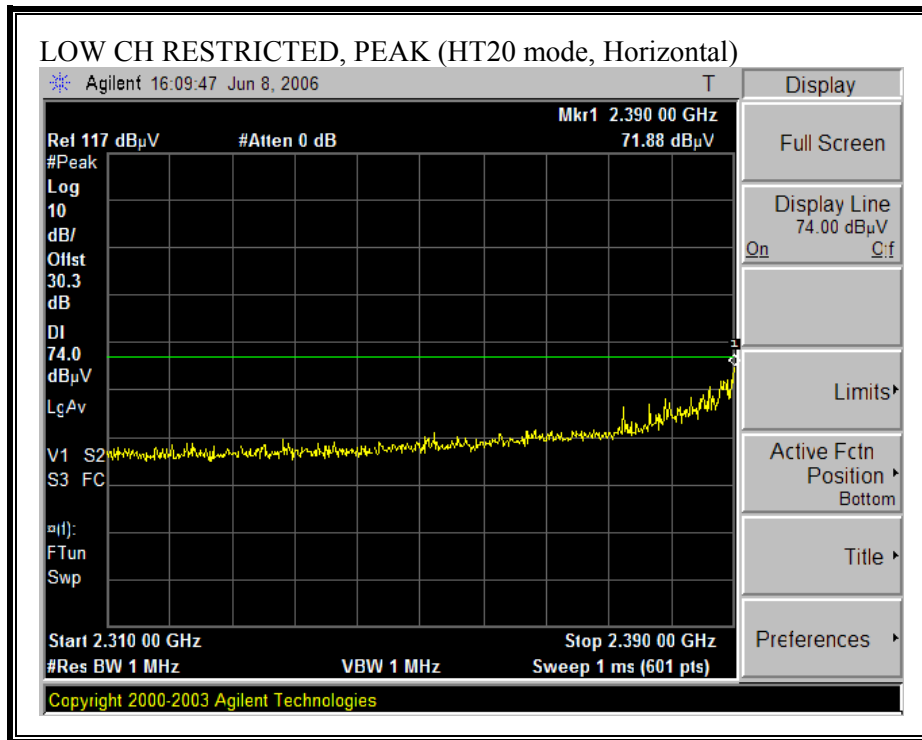


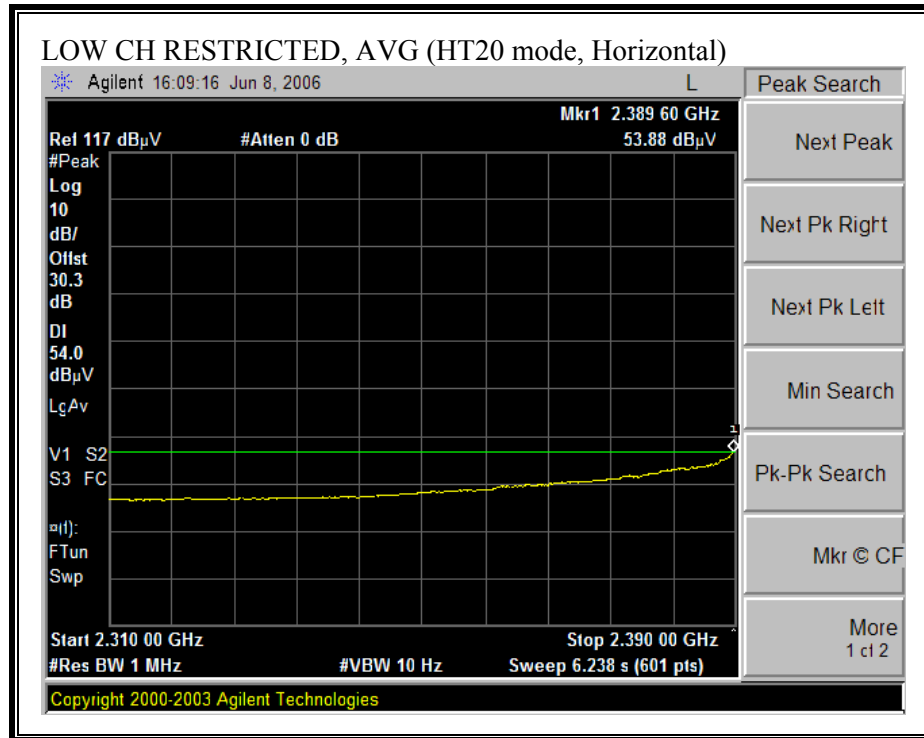


HARMONICS AND SPURIOUS EMISSIONS (802.11g MODE)

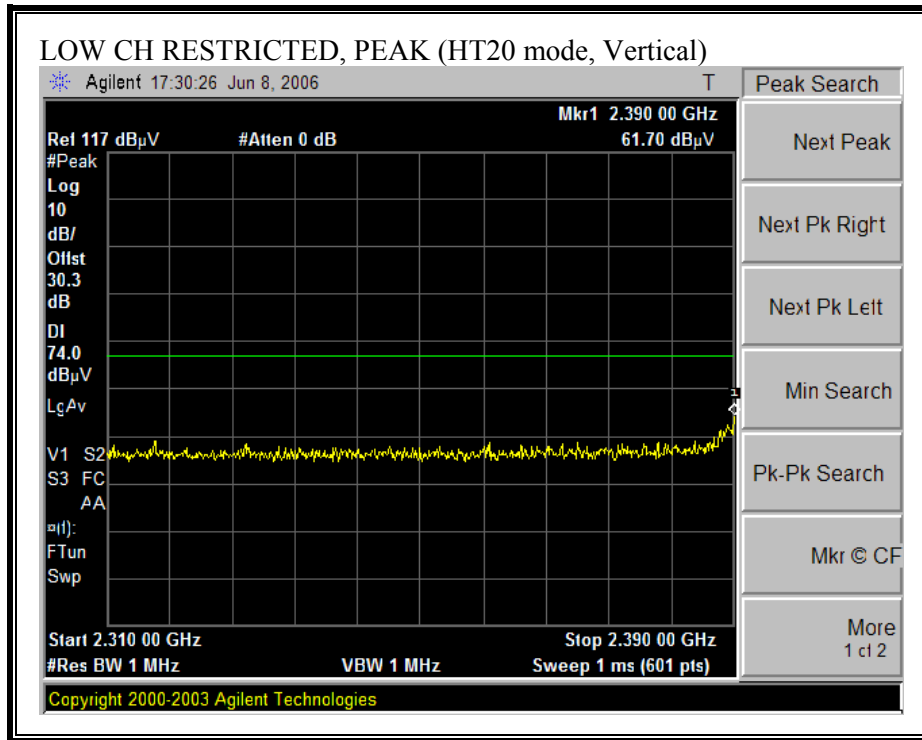
High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365-1																
Date: June 14, 2006																
Test Engineer: Chin Pang																
Configuration: EUT/Foxconn antenna																
Mode: TX, g mode																
Average Power Meter: Low = 14.5 dBm, Mid = 20dBm, High = 13.5 dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch																
4.824	3.0	48.3	35.0	33.0	3.2	-36.5	0.0	0.6	48.7	35.3	74	54	-25.3	-18.7	V	
4.824	3.0	46.3	34.0	33.0	3.2	-36.5	0.0	0.6	46.6	34.3	74	54	-27.4	-19.7	H	
Mid Ch																
4.874	3.0	50.0	38.0	33.1	3.2	-36.5	0.0	0.6	50.4	38.4	74	54	-23.6	-15.6	V	
7.311	3.0	42.0	31.3	35.5	3.6	-36.2	0.0	0.6	45.5	34.8	74	54	-28.5	-19.2	V	
4.874	3.0	47.5	35.0	33.1	3.2	-36.5	0.0	0.6	47.9	35.4	74	54	-26.1	-18.6	H	
7.311	3.0	48.6	34.3	35.5	3.6	-36.2	0.0	0.6	52.1	37.8	74	54	-21.9	-16.2	H	
High Ch																
4.924	3.0	48.0	35.0	33.1	3.2	-36.5	0.0	0.6	48.5	35.5	74	54	-25.5	-18.5	V	
7.386	3.0	43.0	31.0	35.6	3.6	-36.2	0.0	0.6	46.6	34.6	74	54	-27.4	-19.4	V	
4.924	3.0	45.0	32.6	33.1	3.2	-36.5	0.0	0.6	45.5	33.1	74	54	-28.5	-20.9	H	
7.386	3.0	52.0	35.0	35.6	3.6	-36.2	0.0	0.6	55.6	38.6	74	54	-18.4	-15.4	H	
Rev. 5.1.6																
Note: No other emissions were detected above the system noise floor.																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

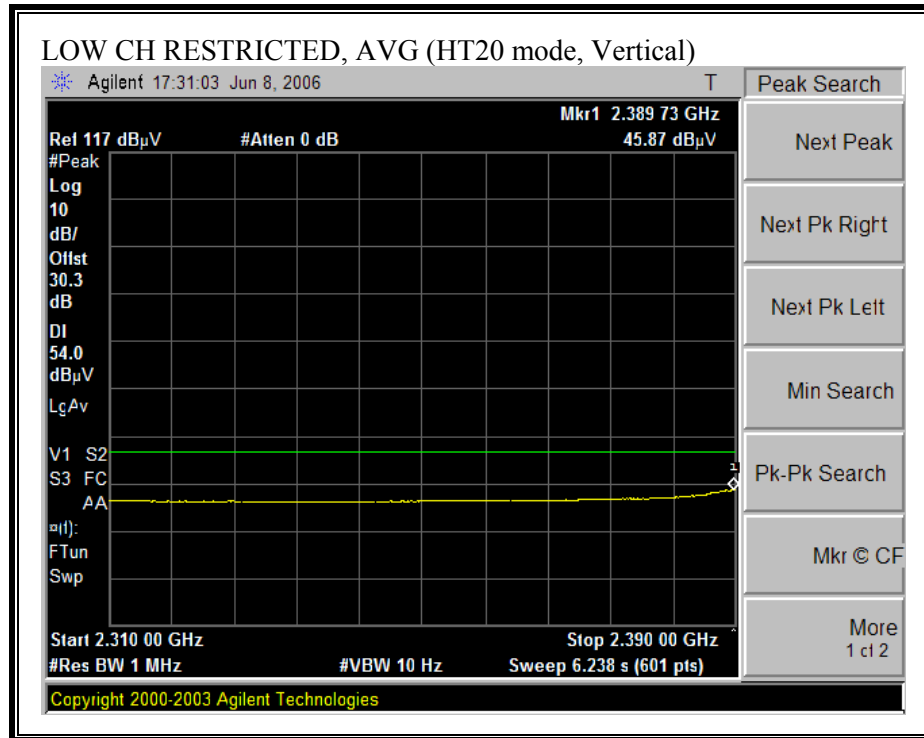
RESTRICTED BANDEDGE (HT20 MODE, LOW CHANNEL, HORIZONTAL)



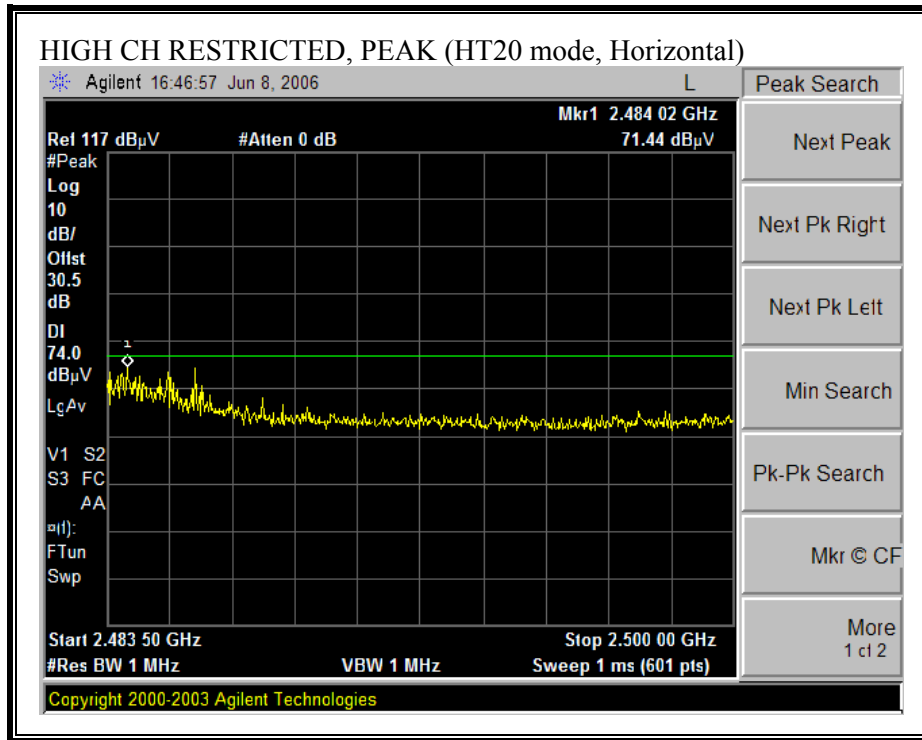


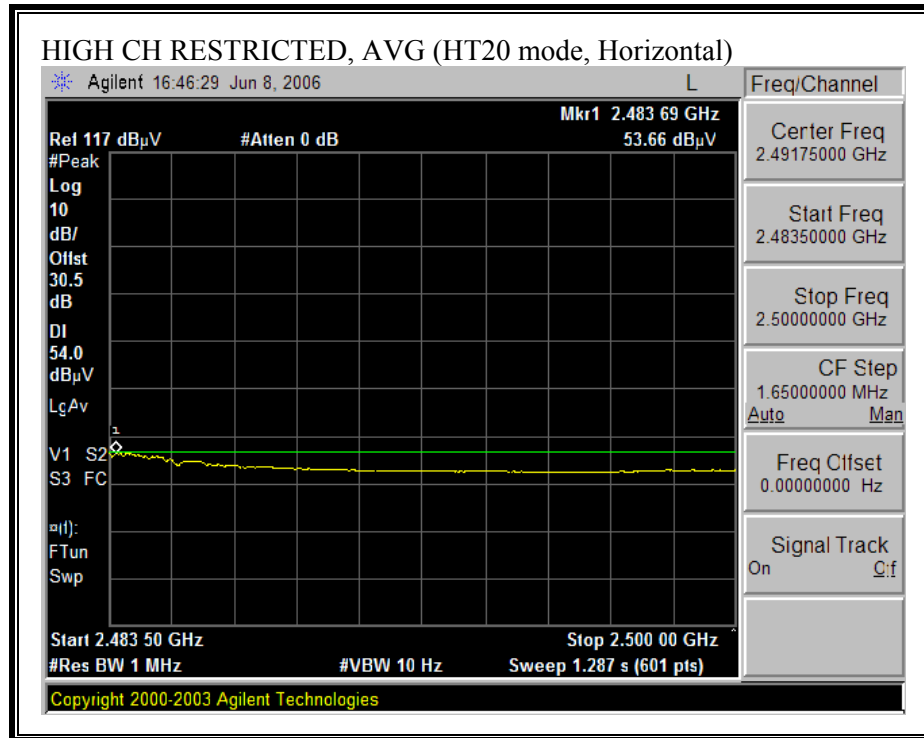
RESTRICTED BANDEDGE (HT20, LOW CHANNEL, VERTICAL)



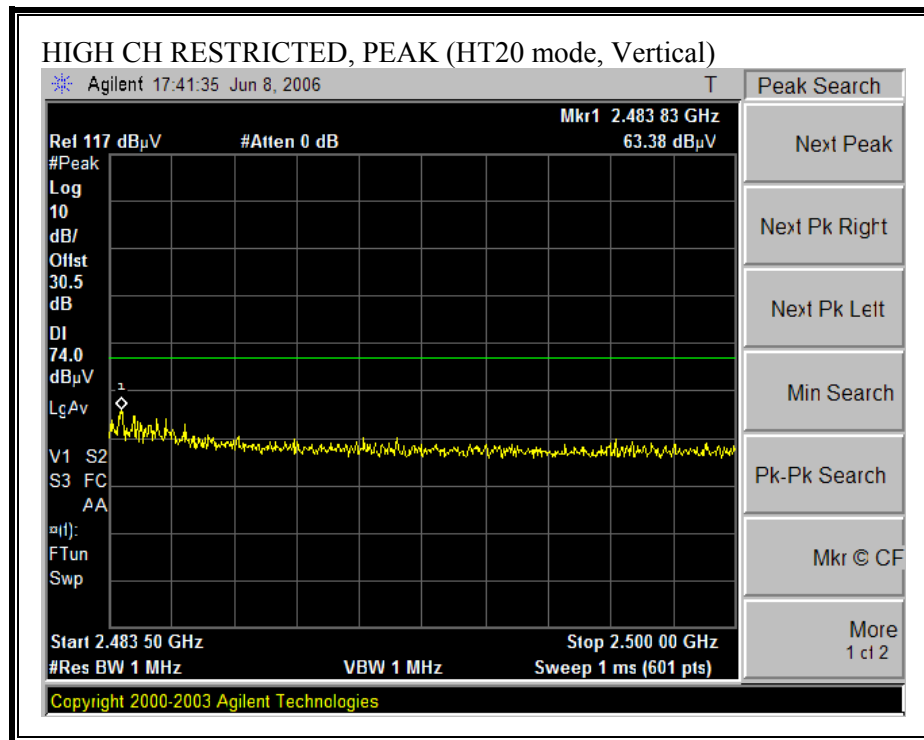


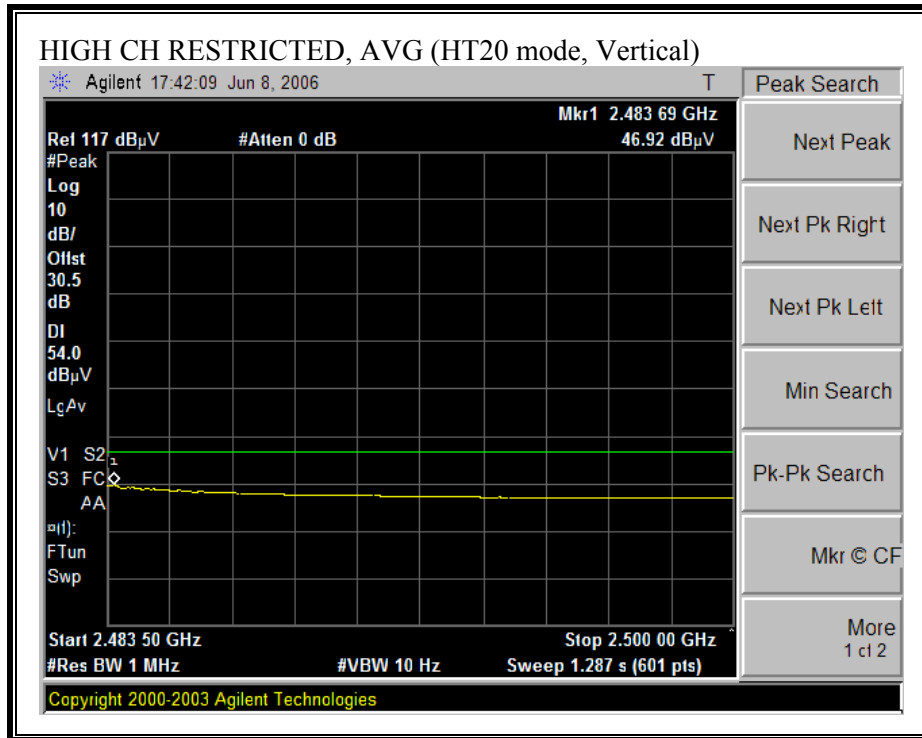
RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HT20 MODE, HIGH CHANNEL, VERTICAL)

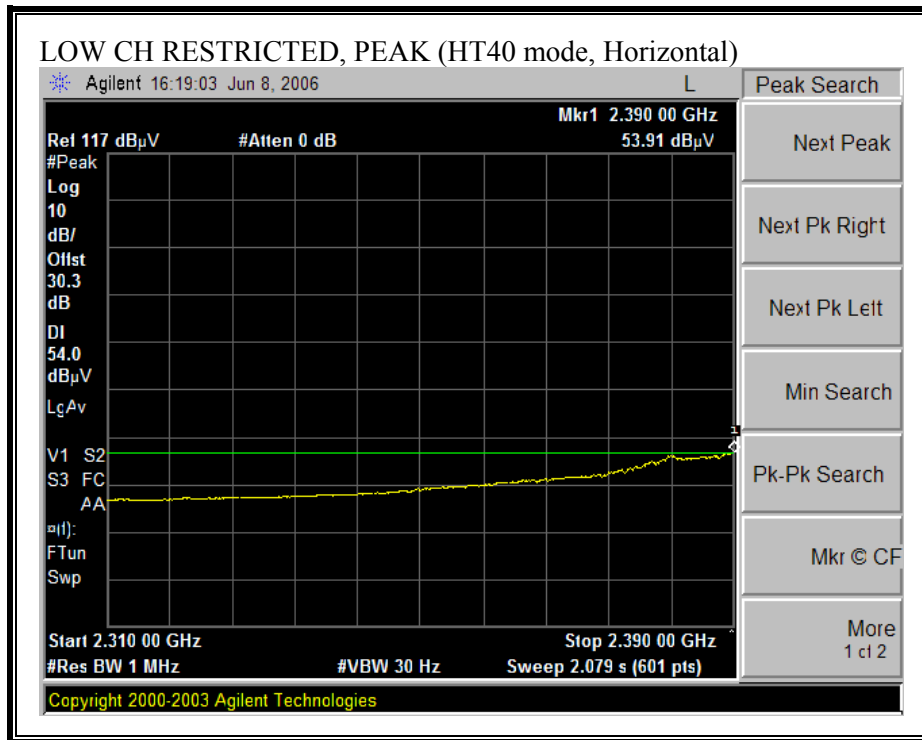


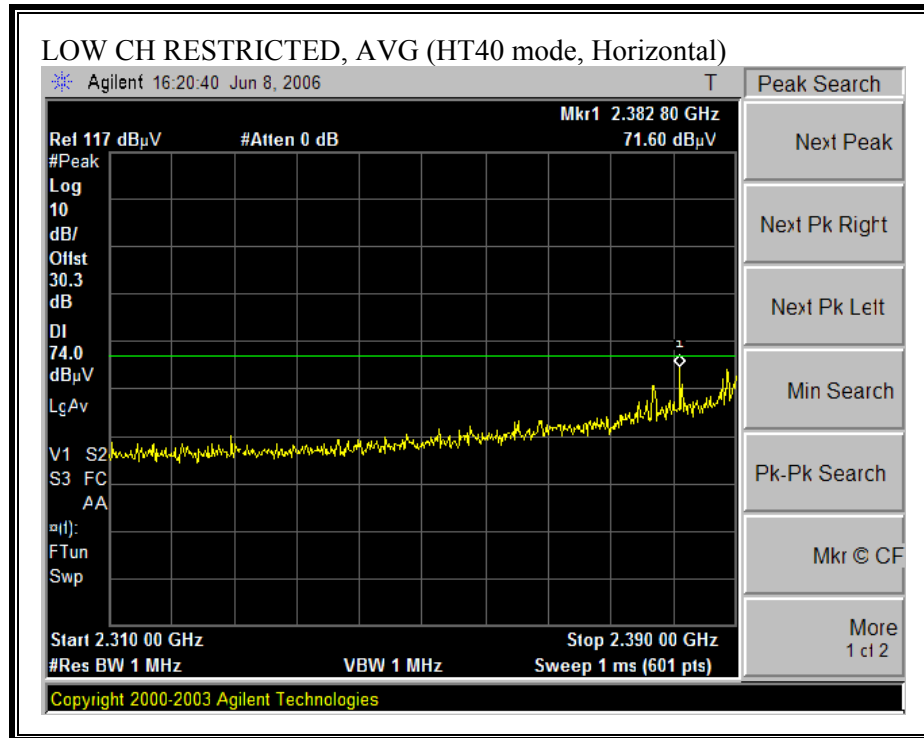


HARMONICS AND SPURIOUS EMISSIONS 802.11n (HT20 MODE)

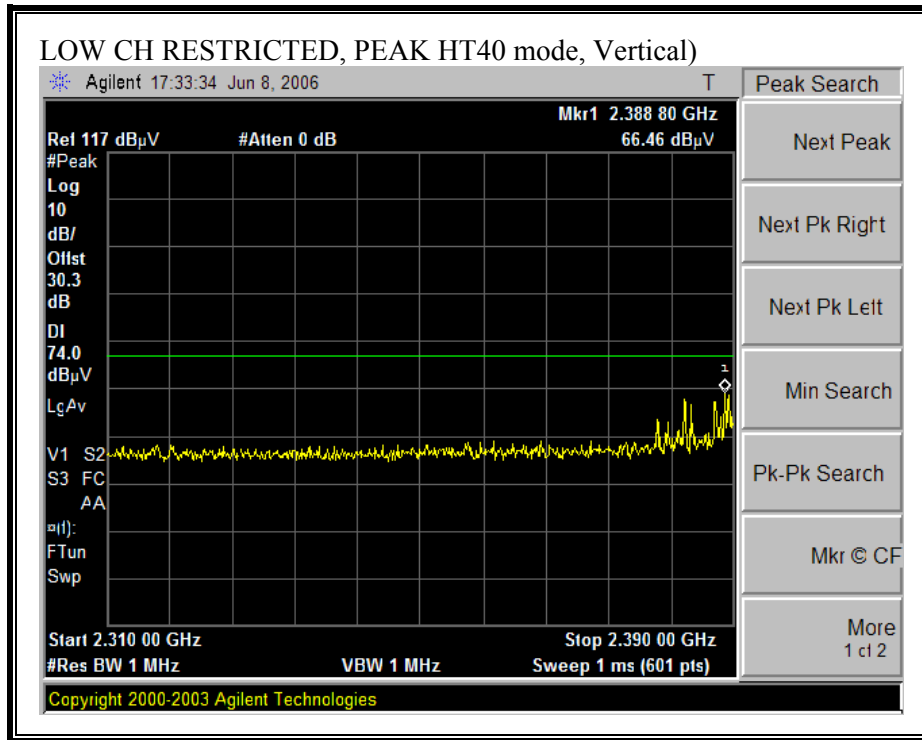
High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365-1																
Date: June 14, 2006																
Test Engineer: Chin Pang																
Configuration: EUT/Foxconn antenna																
Mode: TX, HT20 mode																
Average Power Meter: Low = 14.5 dBm, Mid = 20dBm, High = 12.5dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch																
4.824	3.0	48.0	35.0	33.0	3.2	-36.5	0.0	0.6	48.3	35.3	74	54	-25.7	-18.7	V	
4.824	3.0	45.4	33.4	33.0	3.2	-36.5	0.0	0.6	45.7	33.7	74	54	-28.3	-20.3	H	
Mid Ch																
4.874	3.0	52.0	36.5	33.1	3.2	-36.5	0.0	0.6	52.4	36.9	74	54	-21.6	-17.1	V	
7.311	3.0	42.0	32.3	35.5	3.6	-36.2	0.0	0.6	45.5	35.8	74	54	-28.5	-18.2	V	
4.874	3.0	47.8	35.5	33.1	3.2	-36.5	0.0	0.6	48.2	35.9	74	54	-25.8	-18.1	H	
7.311	3.0	49.6	34.0	35.5	3.6	-36.2	0.0	0.6	53.1	37.5	74	54	-20.9	-16.5	H	
High Ch																
4.924	3.0	47.0	34.3	33.1	3.2	-36.5	0.0	0.6	47.5	34.8	74	54	-26.5	-19.2	V	
7.386	3.0	45.0	31.0	35.6	3.6	-36.2	0.0	0.6	48.6	34.6	74	54	-25.4	-19.4	V	
4.924	3.0	45.0	33.0	33.1	3.2	-36.5	0.0	0.6	45.5	33.5	74	54	-28.5	-20.5	H	
7.386	3.0	51.0	34.5	35.6	3.6	-36.2	0.0	0.6	54.6	38.1	74	54	-19.4	-15.9	H	
Rev: 5.1.6																
Note: No other emissions were detected above the system noise floor.																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

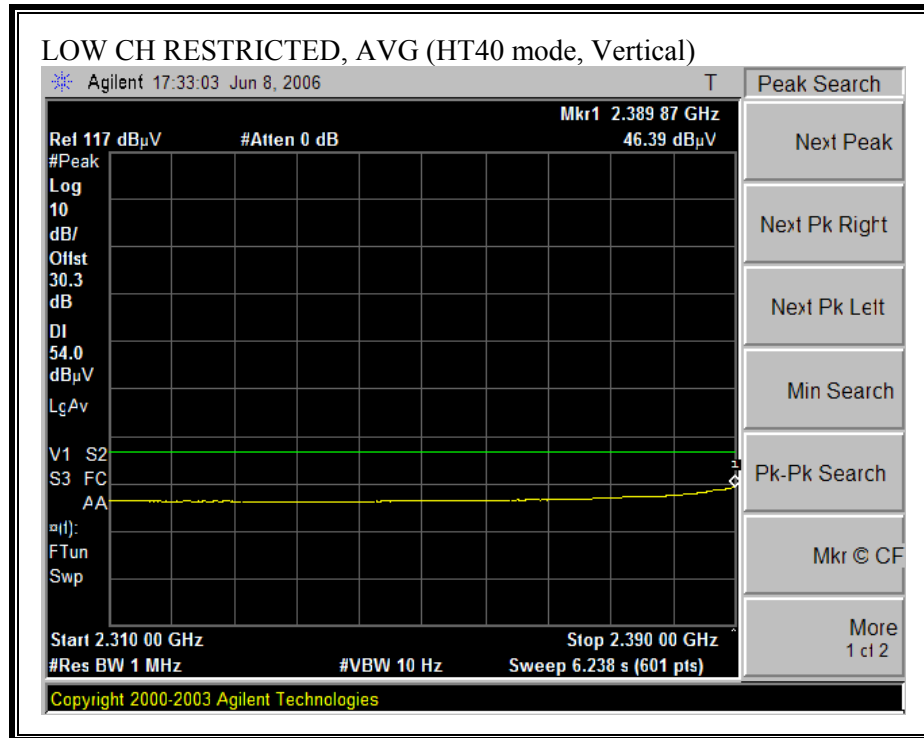
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, HORIZONTAL)



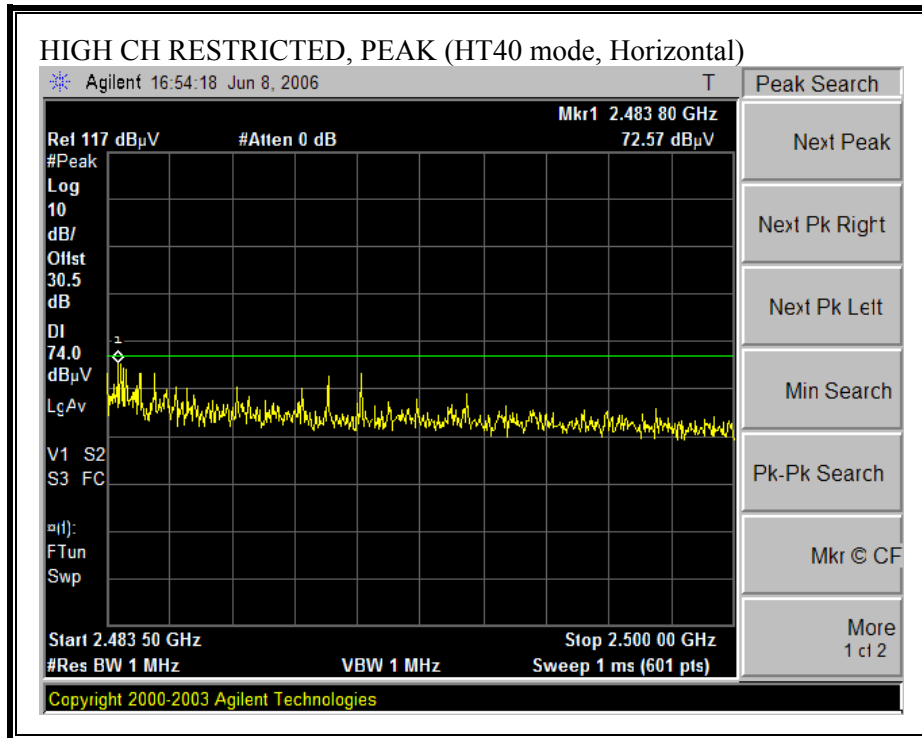


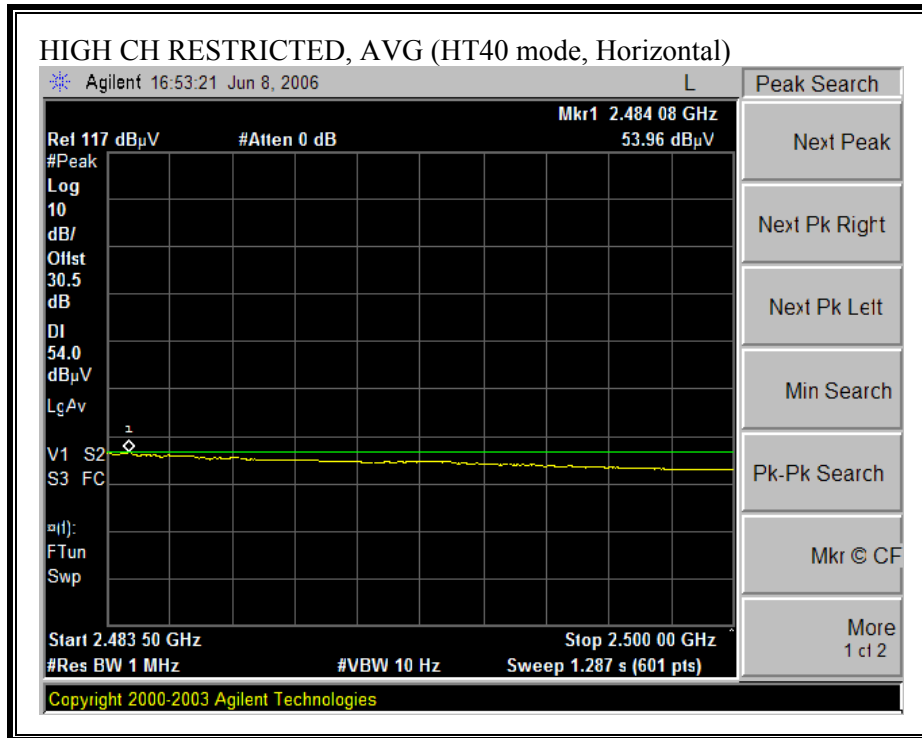
RESTRICTED BANDEDGE (HT40 MODE, LOW CHANNEL, VERTICAL)



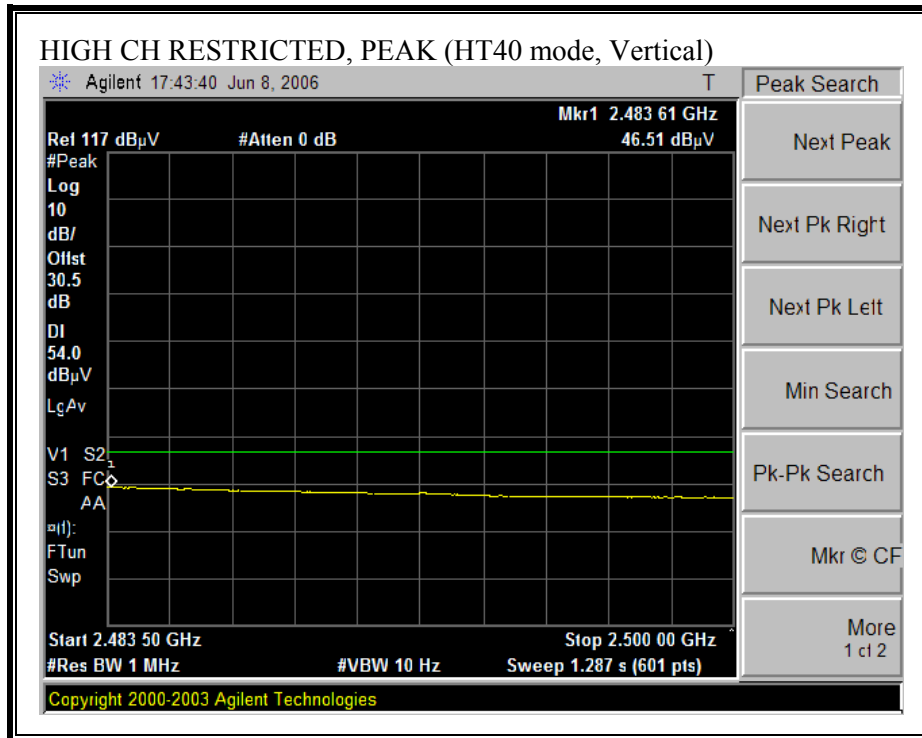


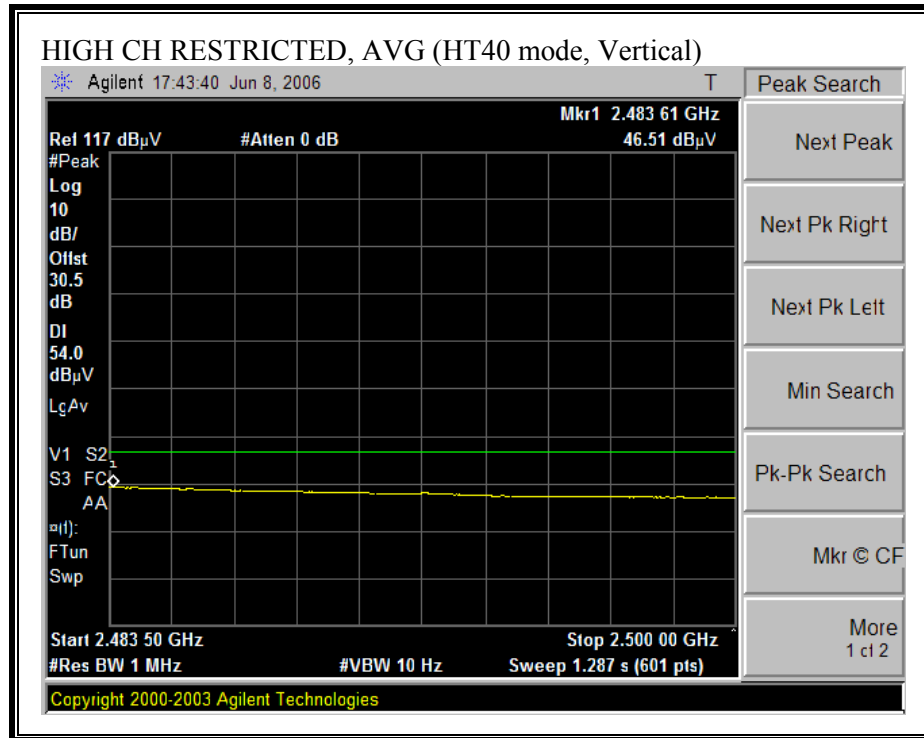
RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (HT40 MODE, HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: Atheros																
Project #: 06U10365-1																
Date: June 14, 2006																
Test Engineer: Chin Pang																
Configuration: EUT/Foxconn antenna																
Mode: TX, HT40 mode																
Average Power Meter: Low = 12 dBm, Mid = 18 dBm, High = 10dBm																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T60; S/N: 2238 @3m		T144 Miteq 3008A00931						FCC 15.205								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
		Chin 197538001		Chin 200354001		HPF_4.0GHz										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch, 2422MHz																
4.844	3.0	47.7	34.4	33.0	3.2	-36.5	0.0	0.6	48.1	34.8	74	54	-25.9	-19.2	V	
4.844	3.0	45.6	33.4	33.0	3.2	-36.5	0.0	0.6	46.0	33.8	74	54	-28.0	-20.2	H	
Mid Ch, 2437MHz																
4.874	3.0	50.0	36.5	33.1	3.2	-36.5	0.0	0.6	50.4	36.9	74	54	-23.6	-17.1	V	
7.311	3.0	43.0	31.2	35.5	3.6	-36.2	0.0	0.6	46.5	34.7	74	54	-27.5	-19.3	V	
4.874	3.0	46.0	33.4	33.1	3.2	-36.5	0.0	0.6	46.4	33.8	74	54	-27.6	-20.2	H	
7.311	3.0	46.8	33.5	35.5	3.6	-36.2	0.0	0.6	50.3	37.0	74	54	-23.7	-17.0	H	
High Ch, 2452MHz																
4.904	3.0	47.5	33.0	33.1	3.2	-36.5	0.0	0.6	48.0	33.5	74	54	-26.0	-20.5	V	
7.356	3.0	42.0	31.0	35.5	3.6	-36.2	0.0	0.6	45.5	34.5	74	54	-28.5	-19.5	V	
4.904	3.0	44.0	32.6	33.1	3.2	-36.5	0.0	0.6	44.5	33.1	74	54	-29.5	-20.9	H	
7.356	3.0	46.4	32.3	35.5	3.6	-36.2	0.0	0.6	49.9	35.8	74	54	-24.1	-18.2	H	
Rev. 5.1.6																
Note: No other emissions were detected above the system noise floor.																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

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

HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)

High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company:ATHEROS															
Project #:06U10365															
EUT Descrip:802.11 n															
Test Engineer:Devin Chang															
Configuration:EBJ antenna															
Mode:TX, 11a 5.8GHz															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit							
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Gordon 187207002				Gordon 203134001											
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5745MHz															
7.660	3.0	43.8	39.5	35.2	3.6	-34.0	0.0	0.0	48.6	44.3	74	54	-25.4	-9.7	V
11.490	3.0	50.7	39.1	37.2	3.7	-32.5	0.0	0.0	59.1	47.4	74	54	-14.9	-6.6	V
7.660	3.0	44.7	35.3	35.2	3.6	-34.0	0.0	0.0	49.5	40.0	74	54	-24.5	-14.0	H
11.490	3.0	47.0	34.5	37.2	3.7	-32.5	0.0	0.0	55.4	42.8	74	54	-18.6	-11.2	H
Mid Ch. 5785MHz															
7.713	3.0	45.8	39.2	35.2	3.6	-33.9	0.0	0.0	50.6	44.0	74	54	-23.4	-10.0	V
11.570	3.0	50.3	39.6	37.2	3.7	-32.5	0.0	0.0	58.7	47.9	74	54	-15.3	-6.1	V
7.713	3.0	42.2	35.7	35.2	3.6	-33.9	0.0	0.0	47.0	40.5	74	54	-27.0	-13.5	H
11.570	3.0	46.4	35.7	37.2	3.7	-32.5	0.0	0.0	54.8	44.1	74	54	-19.2	-9.9	H
High Ch. 5825MHz															
7.767	3.0	43.7	38.1	35.2	3.6	-33.9	0.0	0.0	48.5	43.0	74	54	-25.5	-11.0	V
11.650	3.0	52.3	38.6	37.2	3.7	-32.5	0.0	0.0	60.8	47.0	74	54	-13.2	-7.0	V
7.767	3.0	43.5	37.2	35.2	3.6	-33.9	0.0	0.0	48.3	42.0	74	54	-25.7	-12.0	H
11.650	3.0	46.1	35.2	37.2	3.7	-32.5	0.0	0.0	54.5	43.6	74	54	-19.5	-10.4	H
No other emissions were detected above system noise floor															
Rev. 5.1.6															
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss			HPF	High Pass Filter										

HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)

High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company:ATHEROS																
Project #:06U10365																
EUT Descip:802.11n																
Test Engineer:Devin Chang																
Configuration:EBJ antenna																
Mode:TX, 11n HT20 5.8GHz																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz						
Gordon 187207002				Gordon 203134001												
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch.5745MHz																
7.660	3.0	44.7	38.5	35.2	3.6	-34.0	0.0	0.0	49.5	43.3	74	54	-24.5	-10.7	V	
11.490	3.0	50.2	38.2	37.2	3.7	-32.5	0.0	0.0	58.5	46.5	74	54	-15.5	-7.5	V	
7.660	3.0	42.6	35.0	35.2	3.6	-34.0	0.0	0.0	47.4	39.8	74	54	-26.6	-14.2	H	
11.490	3.0	49.0	37.9	37.2	3.7	-32.5	0.0	0.0	57.4	46.3	74	54	-16.6	-7.7	H	
Mid Ch.5785MHz																
7.713	3.0	48.2	39.8	35.2	3.6	-33.9	0.0	0.0	53.1	44.7	74	54	-20.9	-9.3	V	
11.570	3.0	49.8	38.4	37.2	3.7	-32.5	0.0	0.0	58.2	46.8	74	54	-15.8	-7.2	V	
7.713	3.0	43.3	35.6	35.2	3.6	-33.9	0.0	0.0	48.1	40.4	74	54	-25.9	-13.6	H	
11.570	3.0	50.0	37.9	37.2	3.7	-32.5	0.0	0.0	58.4	46.3	74	54	-15.6	-7.7	H	
High Ch.5825MHz																
7.767	3.0	44.3	38.4	35.2	3.6	-33.9	0.0	0.0	49.1	43.3	74	54	-24.9	-10.7	V	
11.650	3.0	51.4	38.3	37.2	3.7	-32.5	0.0	0.0	59.8	46.7	74	54	-14.2	-7.3	V	
7.767	3.0	44.2	38.0	35.2	3.6	-33.9	0.0	0.0	49.1	42.8	74	54	-24.9	-11.2	H	
11.650	3.0	52.5	40.1	37.2	3.7	-32.5	0.0	0.0	60.9	48.5	74	54	-13.1	-5.5	H	
No other emissions were detected above system noise floor																
Rev.5.1.6																
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit			
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit			
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit			
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit			
CL	Cable Loss					HPF	High Pass Filter									

HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company: ATHEROS															
Project #: 06U10365															
EUT Descrip: 802.11n															
Test Engineer: Devin Chang															
Configuration: EBJ antenna															
Mode: TX, 11n HT40 5.8GHz															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit							
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Gordon 187207002				Gordon 203134001											
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5755MHz															
7.673	3.0	46.5	39.0	35.2	3.6	-34.0	0.0	0.0	51.3	43.8	74	54	-22.7	-10.2	V
11.510	3.0	47.1	36.1	37.2	3.7	-32.5	0.0	0.0	55.5	44.5	74	54	-18.5	-9.5	V
7.673	3.0	47.5	34.3	35.2	3.6	-34.0	0.0	0.0	52.3	39.1	74	54	-21.7	-14.9	H
11.510	3.0	44.6	33.8	37.2	3.7	-32.5	0.0	0.0	53.0	42.1	74	54	-21.0	-11.9	H
Mid Ch. 5785MHz															
7.713	3.0	45.5	38.5	35.2	3.6	-33.9	0.0	0.0	50.3	43.3	74	54	-23.7	-10.7	V
11.570	3.0	50.3	35.2	37.2	3.7	-32.5	0.0	0.0	58.7	43.6	74	54	-15.3	-10.4	V
7.713	3.0	43.6	35.9	35.2	3.6	-33.9	0.0	0.0	48.4	40.7	74	54	-25.6	-13.3	H
11.570	3.0	46.8	33.5	37.2	3.7	-32.5	0.0	0.0	55.2	41.9	74	54	-18.8	-12.1	H
High Ch. 5815MHz															
7.753	3.0	44.7	37.2	35.2	3.6	-33.9	0.0	0.0	49.6	42.0	74	54	-24.4	-12.0	V
11.630	3.0	47.2	33.4	37.2	3.7	-32.5	0.0	0.0	55.6	41.8	74	54	-18.4	-12.2	V
7.753	3.0	43.9	38.2	35.2	3.6	-33.9	0.0	0.0	48.7	43.1	74	54	-25.3	-10.9	H
11.630	3.0	45.7	33.6	37.2	3.7	-32.5	0.0	0.0	54.1	42.0	74	54	-19.9	-12.0	H
No other emissions were detected above system noise floor															
Rev. 5.1.6															
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim	Average Field Strength Limit								
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim	Peak Field Strength Limit								
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Mar	Margin vs. Average Limit								
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Mar	Margin vs. Peak Limit								
CL	Cable Loss		HPF	High Pass Filter											

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

HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)

High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company: ATHEROS																
Project #: 06U10365																
EUT Descr: 802.11n																
Test Engineer: Devin Chang																
Configuration: Foxconn antenna																
Mode: TX, 11a 5.8GHz																
Test Equipment:																
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit								
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209								
Hi Frequency Cables																
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz; VBW=10Hz						
Gordon 187207002				Gordon 203134001												
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Ftr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Ch. 5745MHz																
7.660	3.0	44.3	36.3	35.2	3.6	-34.0	0.0	0.0	49.1	41.0	74	54	-24.9	-13.0	V	
11.490	3.0	47.2	35.5	37.2	3.7	-32.5	0.0	0.0	55.5	43.9	74	54	-18.5	-10.1	V	
7.660	3.0	47.8	34.8	35.2	3.6	-34.0	0.0	0.0	52.6	39.6	74	54	-21.4	-14.4	H	
11.490	3.0	48.6	36.4	37.2	3.7	-32.5	0.0	0.0	57.0	44.8	74	54	-17.0	-9.2	H	
Mid Ch. 5785MHz																
7.713	3.0	43.7	36.2	35.2	3.6	-33.9	0.0	0.0	48.5	41.0	74	54	-25.5	-13.0	V	
11.570	3.0	45.7	35.5	37.2	3.7	-32.5	0.0	0.0	54.1	43.9	74	54	-19.9	-10.1	V	
7.713	3.0	48.5	34.3	35.2	3.6	-33.9	0.0	0.0	53.3	39.1	74	54	-20.7	-14.9	H	
11.570	3.0	49.9	38.5	37.2	3.7	-32.5	0.0	0.0	58.3	46.9	74	54	-15.7	-7.1	H	
High Ch. 5825MHz																
7.767	3.0	43.8	36.5	35.2	3.6	-33.9	0.0	0.0	48.6	41.4	74	54	-25.4	-12.6	V	
11.650	3.0	46.7	35.0	37.2	3.7	-32.5	0.0	0.0	55.1	43.4	74	54	-18.9	-10.6	V	
7.767	3.0	43.5	35.0	35.2	3.6	-33.9	0.0	0.0	48.4	39.9	74	54	-25.6	-14.1	H	
11.650	3.0	48.3	35.9	37.2	3.7	-32.5	0.0	0.0	56.7	44.4	74	54	-17.3	-9.6	H	
No other emissions were detected above system noise floor																
Rev. 5.1.6																
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit							
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit							
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit							
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit							
CL	Cable Loss			HPF	High Pass Filter											

HARMONICS AND SPURIOUS EMISSIONS (802.11n HT20 MODE)

High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company: ATHEROS															
Project #: 06U10365															
EUT Descrip: 802.11 n															
Test Engineer: Devin Chang															
Configuration: Foxcon antenna															
Mode: TX, 11n HT20 5.8GHz															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit							
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Gordon 187207002				Gordon 203134001											
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5745MHz															
7.660	3.0	44.1	36.6	35.2	3.6	-34.0	0.0	0.0	48.9	41.3	74	54	-25.1	-12.7	V
11.490	3.0	46.3	36.1	37.2	3.7	-32.5	0.0	0.0	54.6	44.5	74	54	-19.4	-9.5	V
7.660	3.0	44.0	35.0	35.2	3.6	-34.0	0.0	0.0	48.7	39.8	74	54	-25.3	-14.2	H
11.490	3.0	50.8	38.4	37.2	3.7	-32.5	0.0	0.0	59.1	46.8	74	54	-14.9	-7.2	H
Mid Ch. 5785MHz															
7.713	3.0	43.7	36.1	35.2	3.6	-33.9	0.0	0.0	48.5	40.9	74	54	-25.5	-13.1	V
11.570	3.0	49.2	36.7	37.2	3.7	-32.5	0.0	0.0	57.6	45.1	74	54	-16.4	-8.9	V
7.713	3.0	42.7	34.0	35.2	3.6	-33.9	0.0	0.0	47.5	38.9	74	54	-26.5	-15.1	H
11.570	3.0	50.0	38.4	37.2	3.7	-32.5	0.0	0.0	58.4	46.7	74	54	-15.6	-7.3	H
High Ch. 5825MHz															
7.767	3.0	44.6	37.2	35.2	3.6	-33.9	0.0	0.0	49.5	42.1	74	54	-24.5	-11.9	V
11.650	3.0	47.1	35.2	37.2	3.7	-32.5	0.0	0.0	55.5	43.7	74	54	-18.5	-10.3	V
7.767	3.0	43.6	35.0	35.2	3.6	-33.9	0.0	0.0	48.4	39.8	74	54	-25.6	-14.2	H
11.650	3.0	48.4	35.5	37.2	3.7	-32.5	0.0	0.0	56.9	43.9	74	54	-17.1	-10.1	H
No other emissions were detected above system noise floor															
Rev. 5.1.6															
f	Measurement Frequency		Amp	Preamp Gain		Avg Lim		Average Field Strength Limit							
Dist	Distance to Antenna		D Corr	Distance Correct to 3 meters		Pk Lim		Peak Field Strength Limit							
Read	Analyzer Reading		Avg	Average Field Strength @ 3 m		Avg Mar		Margin vs. Average Limit							
AF	Antenna Factor		Peak	Calculated Peak Field Strength		Pk Mar		Margin vs. Peak Limit							
CL	Cable Loss		HPF	High Pass Filter											

HARMONICS AND SPURIOUS EMISSIONS (802.11n HT40 MODE)

High Frequency Measurement															
Compliance Certification Services, Morgan Hill Open Field Site															
Company: ATHEROS															
Project #: 06U10365															
EUT Descrip: 802.11 n															
Test Engineer: Devin Chang															
Configuration: Foxconn antenna															
Mode: TX, 11n HT40 5.8GHz															
Test Equipment:															
Horn 1-18GHz		Pre-amplifier 1-26GHz		Pre-amplifier 26-40GHz		Horn > 18GHz		Limit							
T119; S/N: 29301 @3m		T34 HP 8449B						FCC 15.209							
Hi Frequency Cables															
2 foot cable		3 foot cable		12 foot cable		HPF		Reject Filter		Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz					
Gordon 187207002				Gordon 203134001											
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filt dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
Low Ch. 5755MHz															
7.673	3.0	44.2	37.8	35.2	3.6	-34.0	0.0	0.0	49.0	42.6	74	54	-25.0	-11.4	V
11.510	3.0	45.4	33.7	37.2	3.7	-32.5	0.0	0.0	53.8	42.0	74	54	-20.2	-12.0	V
7.673	3.0	43.1	43.2	35.2	3.6	-34.0	0.0	0.0	47.9	48.0	74	54	-26.1	-6.0	H
11.510	3.0	49.0	36.9	37.2	3.7	-32.5	0.0	0.0	57.4	45.2	74	54	-16.6	-8.8	H
Mid Ch. 5785MHz															
7.713	3.0	43.5	35.6	35.2	3.6	-33.9	0.0	0.0	48.4	40.4	74	54	-25.6	-13.6	V
11.570	3.0	45.7	33.9	37.2	3.7	-32.5	0.0	0.0	54.1	42.3	74	54	-19.9	-11.7	V
7.713	3.0	43.2	33.1	35.2	3.6	-33.9	0.0	0.0	48.0	37.9	74	54	-26.0	-16.1	H
11.570	3.0	50.9	36.7	37.2	3.7	-32.5	0.0	0.0	59.3	45.0	74	54	-14.7	-9.0	H
High Ch. 5815MHz															
7.753	3.0	42.5	38.7	35.2	3.6	-33.9	0.0	0.0	47.3	43.5	74	54	-26.7	-10.5	V
11.630	3.0	44.7	31.9	37.2	3.7	-32.5	0.0	0.0	53.1	40.3	74	54	-20.9	-13.7	V
7.753	3.0	44.4	34.6	35.2	3.6	-33.9	0.0	0.0	49.2	39.5	74	54	-24.8	-14.5	H
11.630	3.0	49.0	34.9	37.2	3.7	-32.5	0.0	0.0	57.4	43.3	74	54	-16.6	-10.7	H
No other emissions were detected above system noise floor															
Rev. 5.1.6															
f	Measurement Frequency			Amp	Preamp Gain			Avg Lim	Average Field Strength Limit						
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters			Pk Lim	Peak Field Strength Limit						
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m			Avg Mar	Margin vs. Average Limit						
AF	Antenna Factor			Peak	Calculated Peak Field Strength			Pk Mar	Margin vs. Peak Limit						
CL	Cable Loss			HPF	High Pass Filter										

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)

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/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)

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	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/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

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

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/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

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)

Page: 1

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/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 Limit (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

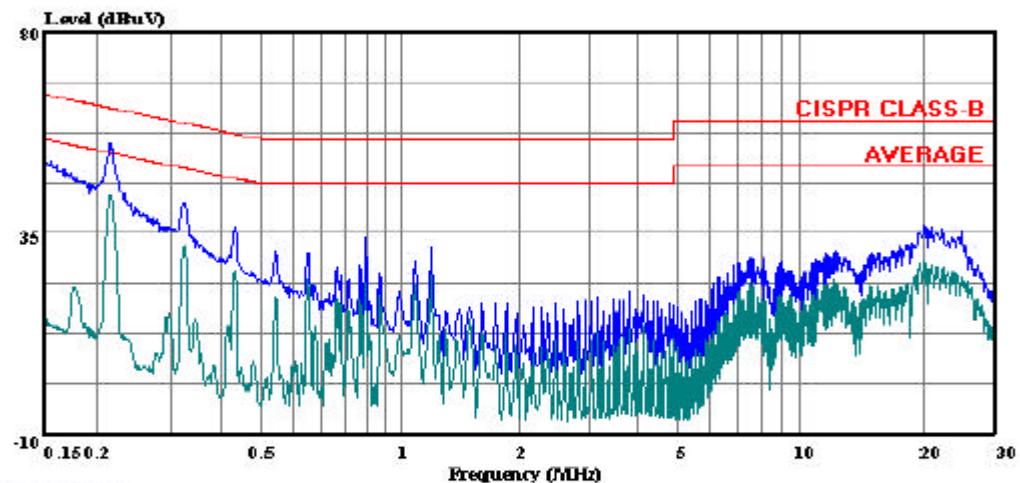
CONDUCTED EMISSIONS DATA (115VAC 60Hz)									
Freq.	Reading			Closs	Limit	EN B	Margin		Remark
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2
0.22	54.94	--	42.83	0.00	62.82	52.82	-7.88	-9.99	L1
0.33	45.00	--	31.89	0.00	59.45	49.45	-14.45	-17.56	L1
0.89	33.94	--	33.94	0.00	56.00	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 Data									

LINE 1 RESULTS



Compliance Certification Services
561F Monterey Road
Morgan Hill, CA 95037
Tel: (408) 463-0885
Fax: (408) 463-0888

Data#: 7 File#: FOXCONN.EMI Date: 06-16-2006 Time: 14:57:31



(Auxiliary ATC)

Trace: 5

Ref Trace:

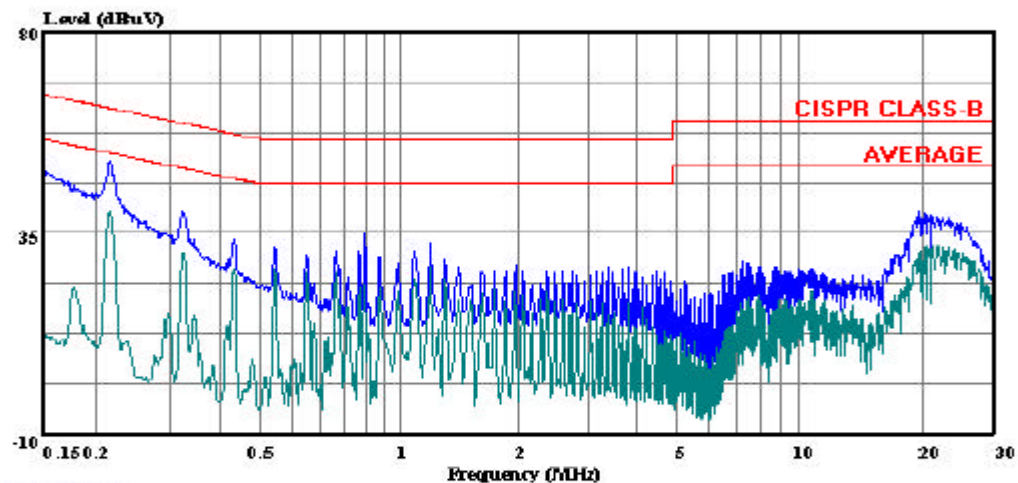
Condition: CISPR CLASS-B
Test Operator : Devin Chang
Project # : 06U10365
Company : Atheros
EUT configuration: EUT & laptop with Foxconn antenna
EUT mode : Transmitter
Power Source : 115 VAC, 60 Hz
: Line 1, Peak: (Blue), Average: (Green)

LINE 2 RESULTS



Compliance Certification Services
561F Monterey Road
Morgan Hill, CA 95037
Tel: (408) 463-0885
Fax: (408) 463-0888

Data#: 7 File#: Foxconn L2.EMI Date: 06-16-2006 Time: 15:46:43



(Auxiliary ATC)

Trace: 5

Ref Trace:

Condition: CISPR CLASS-B
Test Operator : Devin Chang
Project # : 06U10365
Company : Atheros
EUT configuration: EUT & laptop with Foxconn antenna
EUT mode : Transmitter
Power Source : 115 VAC, 60 Hz
: Line 2, Peak: (Blue), Average: (Green)