DATE: JULY 11, 2002 FCC ID: HZB-8460

Substituting the logarithmic form of power and gain using:

$$P(mW) = 10 ^ (P(dBm) / 10)$$
 and

$$G (numeric) = 10 ^ (G (dBi) / 10)$$

yields

$$d = 0.282 * 10 ^ ((P + G) / 20) / \sqrt{S}$$

Equation (1)

where

d = MPE safe distance in cm

P = Power in dBm

G = Antenna Gain in dBi

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

RESULTS

No non-compliance noted:

EUT output power = 19.51 dBm Antenna Gain = 1.0 dBi S = 1.0 mW / cm^2 from 1.1310 Table 1

Substituting these parameters into Equation (1) above,

MPE Safe Distance = 2.99 cm

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.

8.8. FREQUENCY STABILITY

RESULTS

No non-compliance noted:

Referring to the theory of operation, the crystal used to set the frequency has a temperature coefficient of +/- 20 ppm. For a transmitter fundamental frequency of 5.35 GHz, this corresponds to +/- 107 kHz.

During band edge testing, it is determined that the smallest margin (along the frequency axis) to the band edge occurred at the upper band edge in the Turbo mode, using average detection, with the antenna vertically polarized. In this configuration, with the transmitter set to the highest channel, the envelope of the modulation sideband intercepted the 54 dBuV/m limit at 5,347.3 MHz. Adding the maximum peak-to-peak deviation due to the crystal (0.214 MHz) yields 5,347.514 MHz, which remains within the authorized band of 5,150 to 5,350 MHz.

At the lower band edge, the smallest margin (along the frequency axis) occurred in the Base mode, using average detection, with the antenna vertically polarized. In this configuration, with the transmitter set to the lowest channel, the envelope of the modulation sideband intercepted the 54 dBuV/m limit at 5,154 MHz. Subtracting the maximum peak-to-peak deviation due to the crystal (0.214 MHz) yields 5,153.786 MHz, which remains within the authorized band of 5,150 to 5,350 MHz.

8.9. UNDESIRABLE EMISSIONS – CONDUCTED MEASUREMENTS

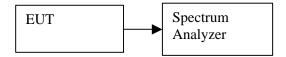
DATE: JULY 11, 2002

FCC ID: HZB-8460

Conducted RF measurements of the transmitter output were made at the band edges and the adjacent restricted bands.

Also, conducted RF measurements of the transmitter output over the 30 MHz to 26.5 GHz band were made in order to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

TEST SETUP



TEST PROCEDURE

The transmitter output is connected to the spectrum analyzer. For measurements above 1 GHz, the resolution bandwidth is set to 1 MHz. The video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

Measurements are made at the lower band edge and the restricted band adjacent to the lower edge of the authorized band, with the transmitter set to the lowest channel.

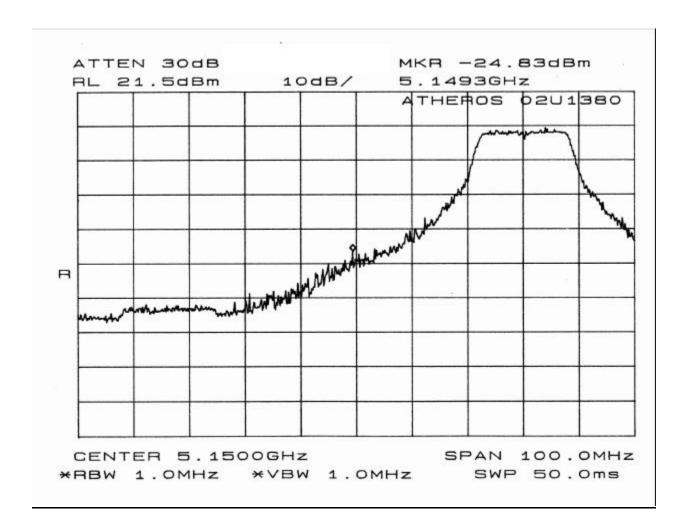
Measurements are made at the upper band edge and the restricted band adjacent to the upper edge of the authorized band, with the transmitter set to the highest channel.

Measurements are made over the 30 MHz to 26.5 GHz range with the transmitter set to the lowest, middle, and highest channels.

RESULTS

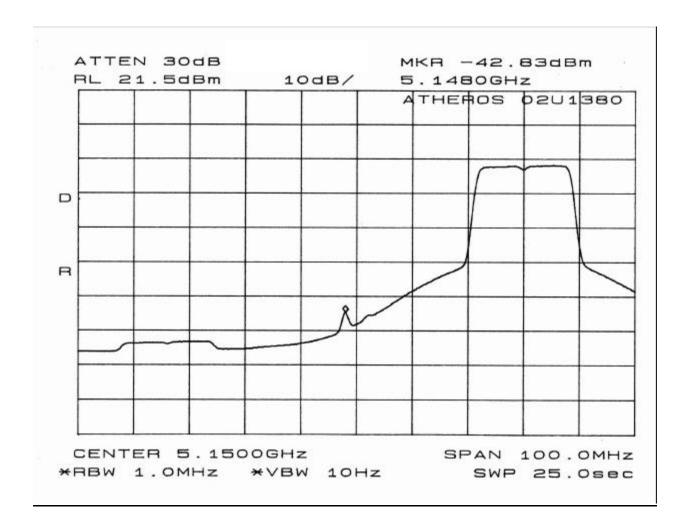
CONDUCTED RF EMISSIONS AT BANDEDGE

BASE MODE LOW PEAK



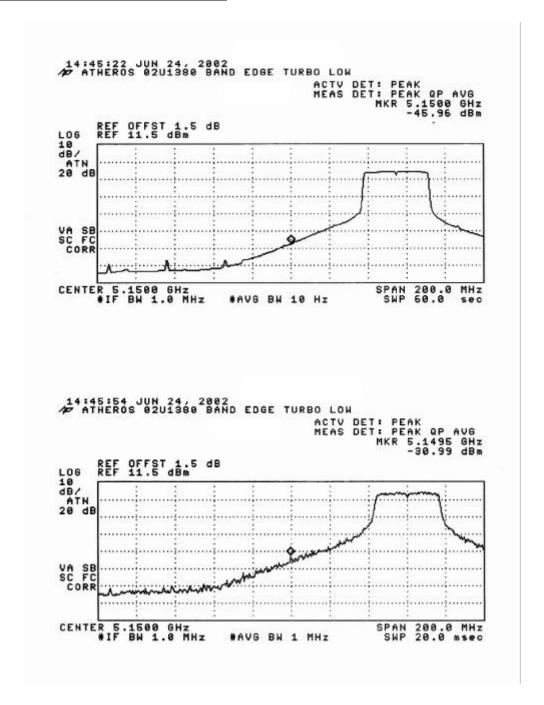
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BASE MODE LOW AVERAGE

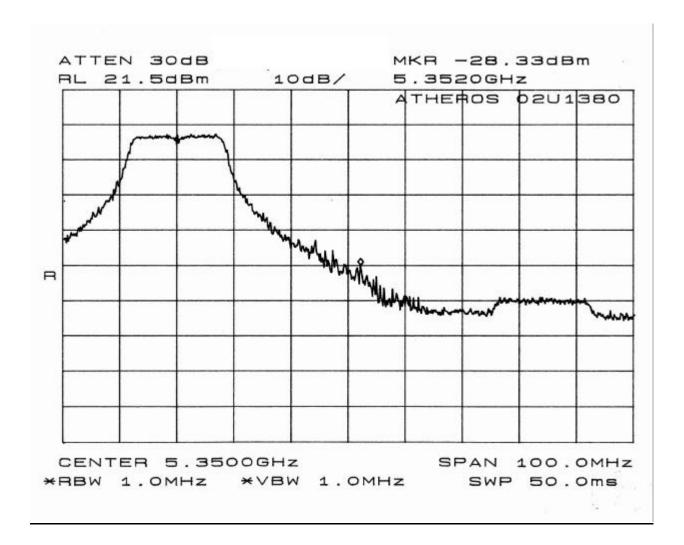


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TURBO MODE LOW AVERAGE AND PEAK



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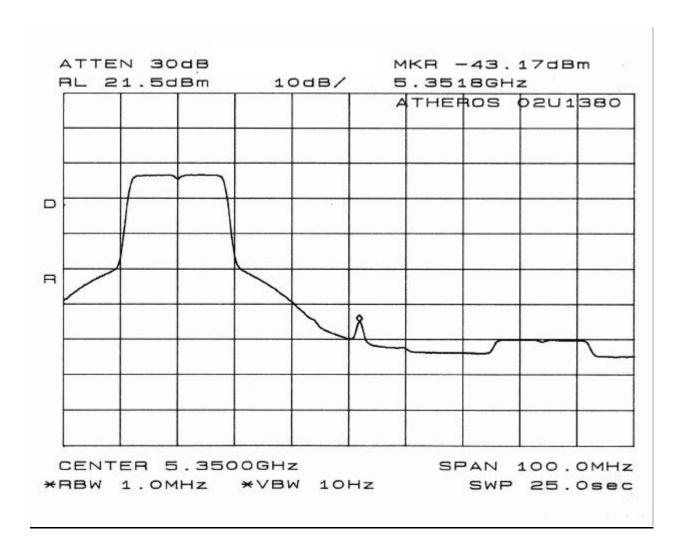


DATE: JULY 11, 2002

FCC ID: HZB-8460

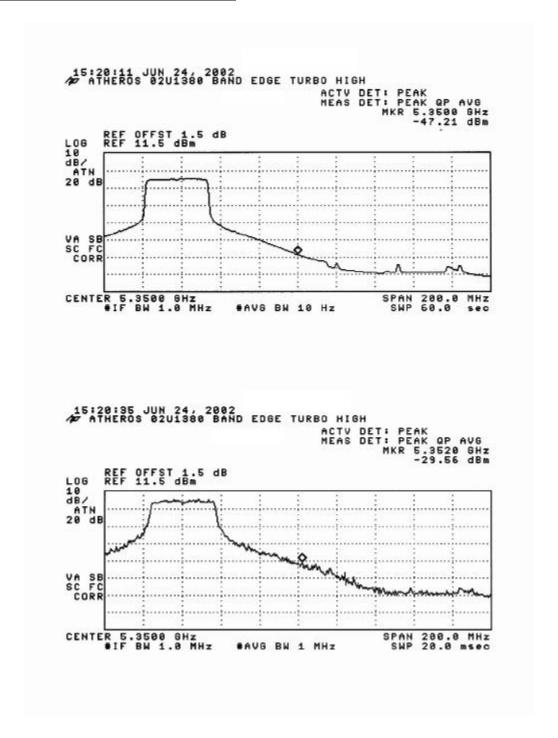
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BASE MODE HIGH AVERAGE



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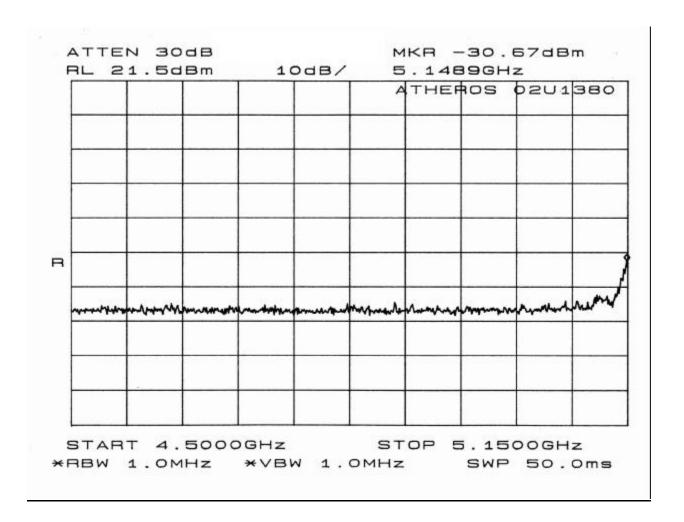
TURBO MODE HIGH AVERAGE AND PEAK



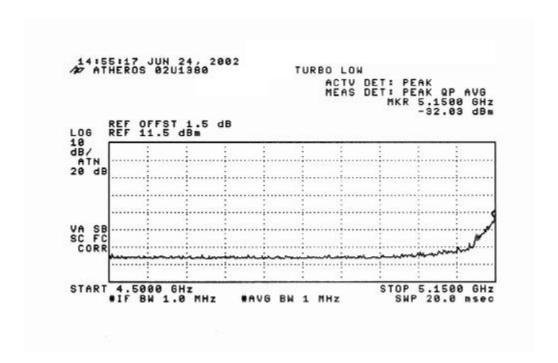
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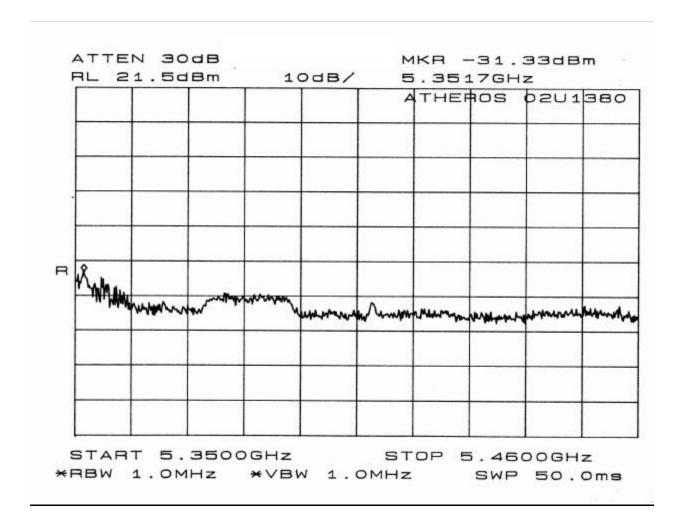
CONDUCTED RF EMISSIONS OVER ADJACENT RESTRICTED BANDS

BASE MODE LOW



TURBO MODE LOW

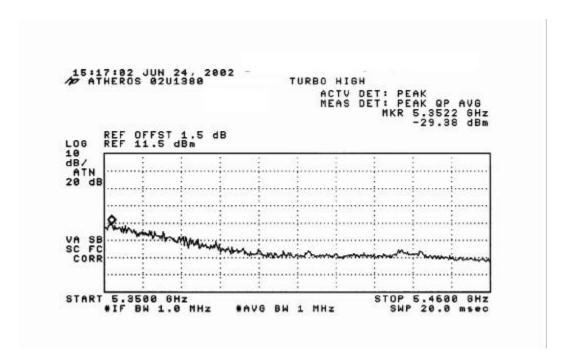




DATE: JULY 11, 2002

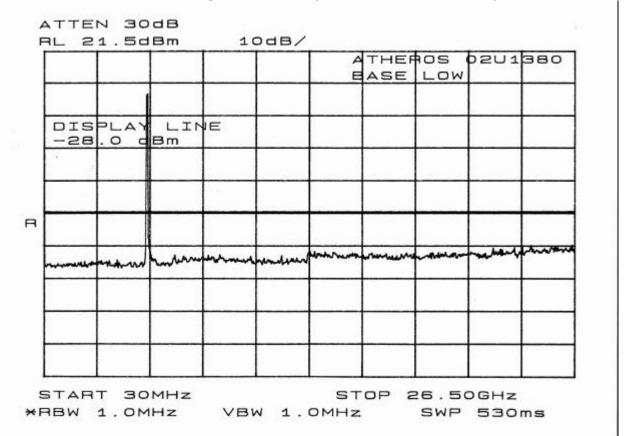
FCC ID: HZB-8460

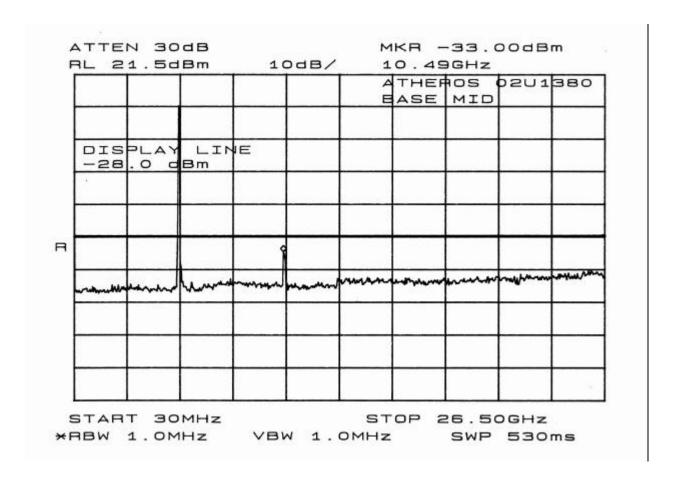
TURBO MODE HIGH

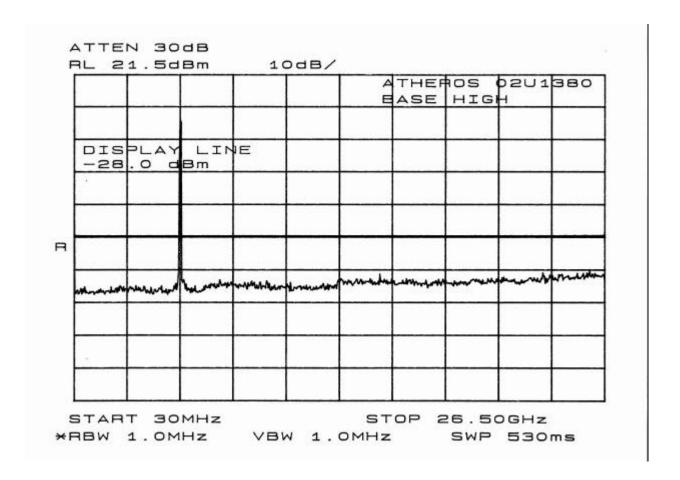


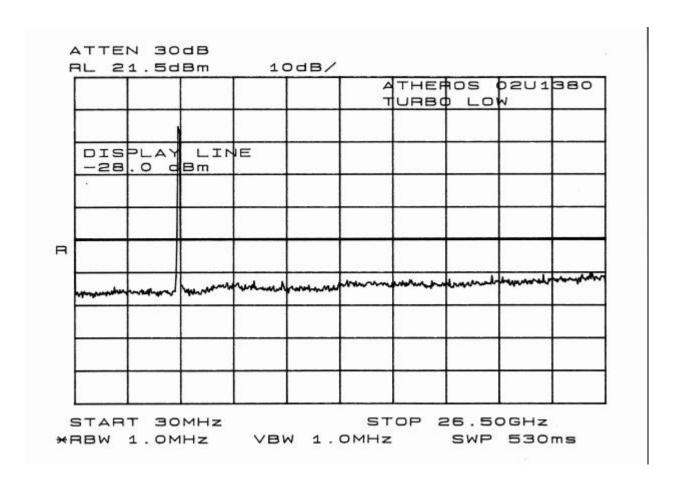
CONDUCTED RF SPURIOUS EMISSIONS

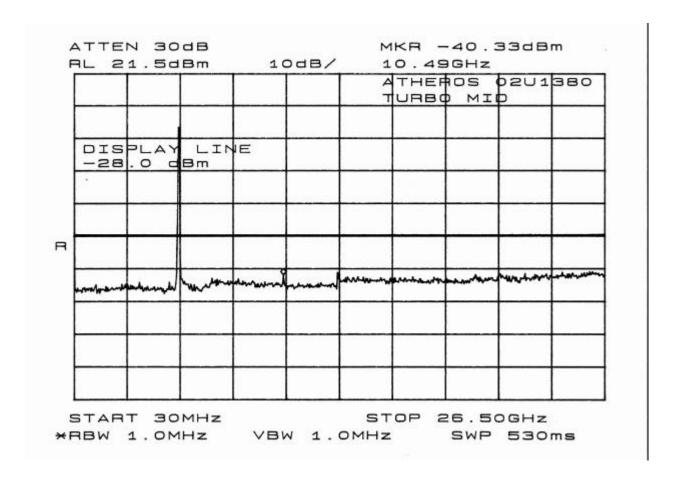
NOTE: Peak measurements are compared to the average limit corrected for antenna gain.

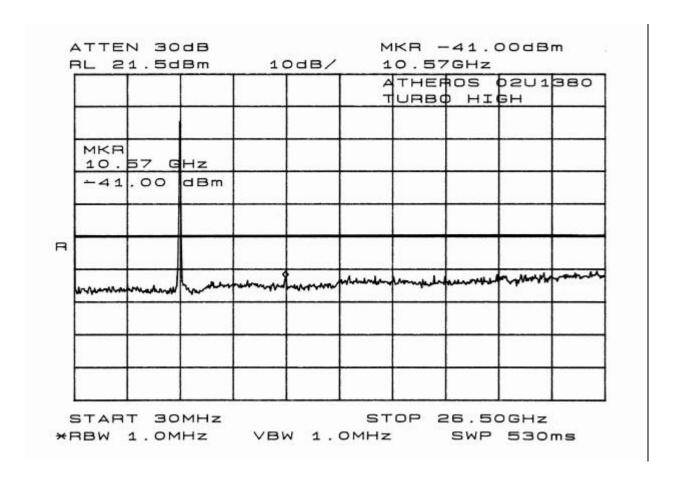












8.10. UNDESIRABLE EMISSIONS – RADIATED MEASUREMENTS

DATE: JULY 11, 2002

FCC ID: HZB-8460

TEST SETUP

For measurements of the EUT as a digital device, the EUT and all other support equipment were placed on a wooden table 80 cm above the ground plane. For measurements of the EUT as a transmitter, the EUT and the laptop were placed on the wooden table. The antenna to EUT distance is 3 meters for measurements below 1 GHz and 1 meter for measurements above 1 GHz. The EUT is configured in accordance with Section 8 of ANSI C63.4/1992.

The EUT is set to transmit in a continuous mode.

TEST PROCEDURE

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 40 GHz is investigated.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The frequency span is set small enough to easily differentiate between broadcast stations, intermittent ambient signals and EUT emissions. 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 suspected signal. Measurements were made with the antenna polarized in both the vertical and the horizontal positions.

SYSTEM NOISE FLOOR FOR HARMONIC AND SPURIOUS MEASUREMENTS

Compliance Certification Services

Worst Case Radiated Emissions System Noise Floor

Each band below corresponds to each horn antenna band
Uses the lowest gain preamplifier; actual preamp used may have higher gain
Uses the longest typical cable configuration; actual cables used may have less loss
Noise floor field strength results are compared to the FCC 15.205 Restricted Band limit

Specification Distance: 3 meters

Specii	ication D		3	meters					
Freq	SA	AF	Distance	Distance	Preamp	Cable	Field	Limit	Margin
GHz	dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBuV/m	dB
1 to 18 (GHz ban	d							
RBW =	1 MHz, p	eak dete	ection						
18	41.9	47.8	1	-9.5	32.6	13.5	61.06	74	-12.94
RBW =	1 MHz, a	average (detection						
18	28.7	47.8	1	-9.5	32.6	13.5	47.86	54	-6.14
18 to 26	GHz ba	nd							
RBW =	1 MHz, p	eak dete	ection						
26	44.6 33.4 1			-9.5	35.0	19.5	52.96	74	-21.04
RBW =	1 MHz, a	average (detection						
26	32.4	33.4	1	-9.5	35.0	19.5	40.76	54	-13.24
26 to 40	GHz ba	nd							
Externa	l mixer is	used fo	r this band						
Preamp	plifier is internal to Spectrum		Spectrum	Analyzer, v	vith gain fac	ctor built int	to firmware		
Antenna	a is mour	nted dire	ctly on exte	rnal mixer,	therefore c	able = 0 df	3		
RBW =	1 MHz, p	eak dete	ection						
40	39.2	44.5	0.3	-20.0	0.0	0	63.70	74	-10.30
RBW =	1 MHz, a	average (detection						
40	27.2	44.5	0.3	-20.0	0.0	0	51.70	54	-2.30

SAMPLE CALCULATIONS

Given

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

where

E = Field Strength in Volts / meter

P = Power in watts

G = Numeric antenna gain

d = distance in meters

Rearranging terms yields:

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

Converting to the logarithmic form and changing to units of mW and uV/m, using:

$$P(mW) = P(W) / 1000$$
 and $E(uV/m) = E(V/m) / 1000000$

yields

$$10 \log (P * G) = 10 \log (d ^ 2) + 10 \log (E ^ 2) - 10 \log (30) - 10 \log (10 ^ 9)$$
$$= 20 \log (d) + 20 \log (E) - 104.77$$

DATE: JULY 11, 2002

FCC ID: HZB-8460

In this logarithmic form

Since EIRP = P * G, then at a specification distance of 3 meters, the EIRP in terms of field strength is:

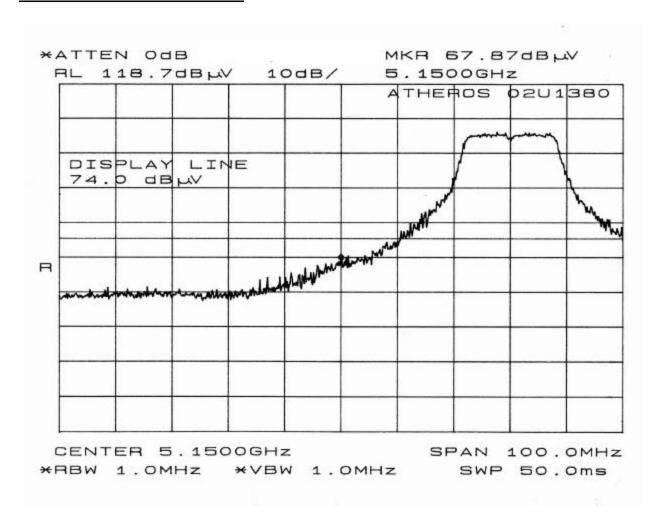
$$EIRP (dBm) = P * G (dBm) = E (dBuV/m) - 95.2$$

TEST RESULTS

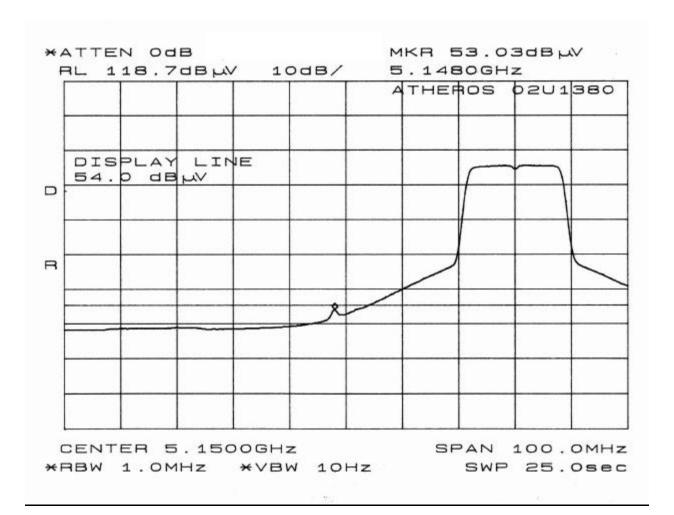
No non-compliance noted:

RADIATED EMISSIONS AT BAND EDGE

BASE MODE LOW VERTICAL PEAK

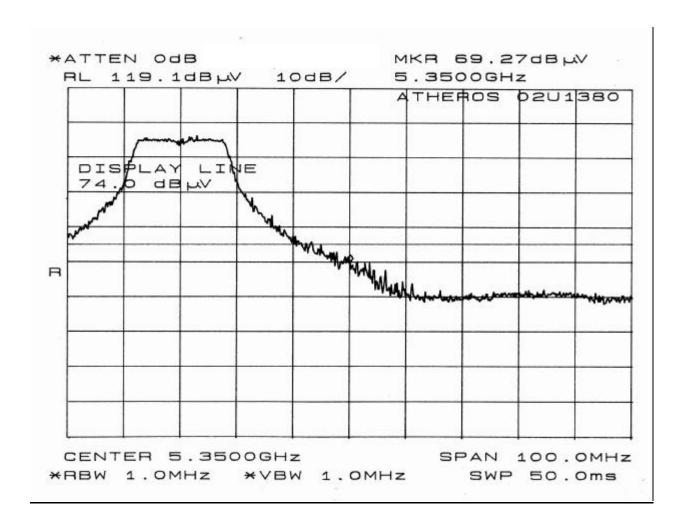


BASE MODE LOW VERTICAL AVERAGE



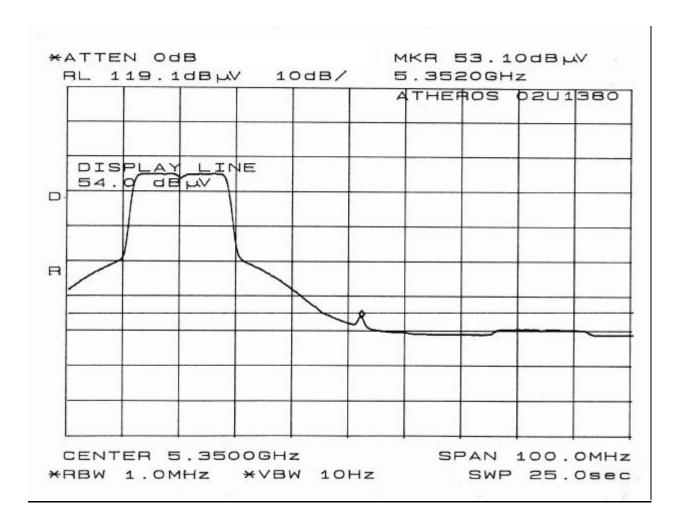
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BASE MODE HIGH VERTICAL PEAK

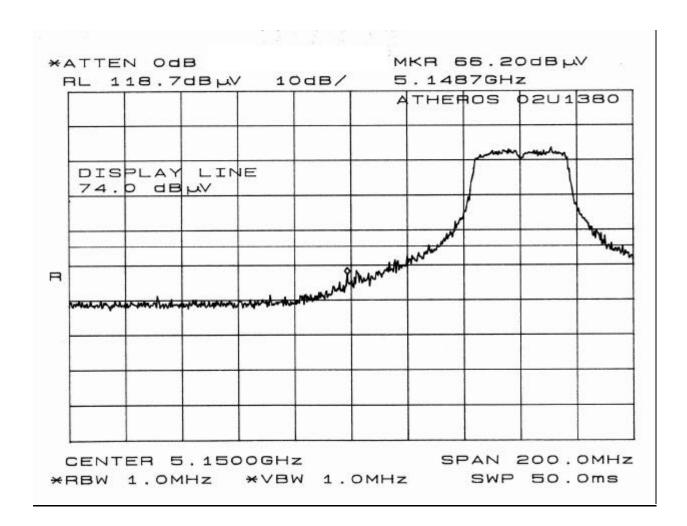


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BASE MODE HIGH VERTICAL AVERAGE

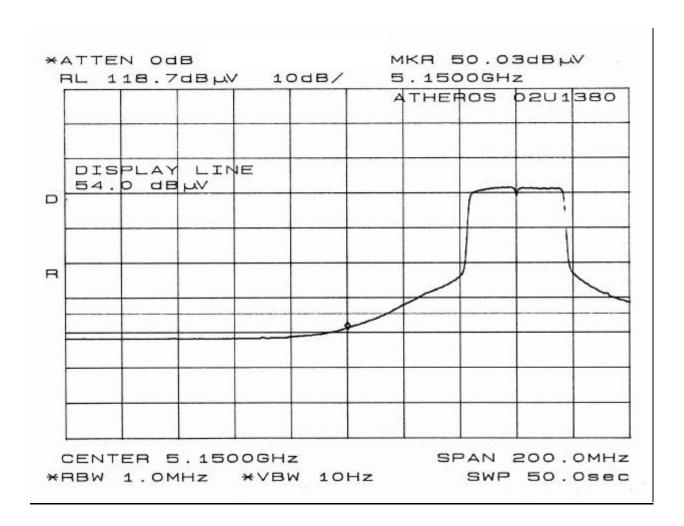


TURBO MODE LOW VERTICAL PEAK



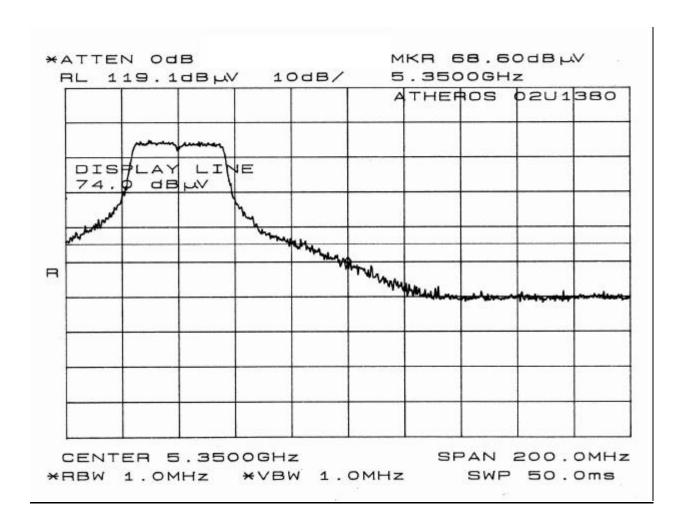
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TURBO MODE LOW VERTICAL AVERAGE



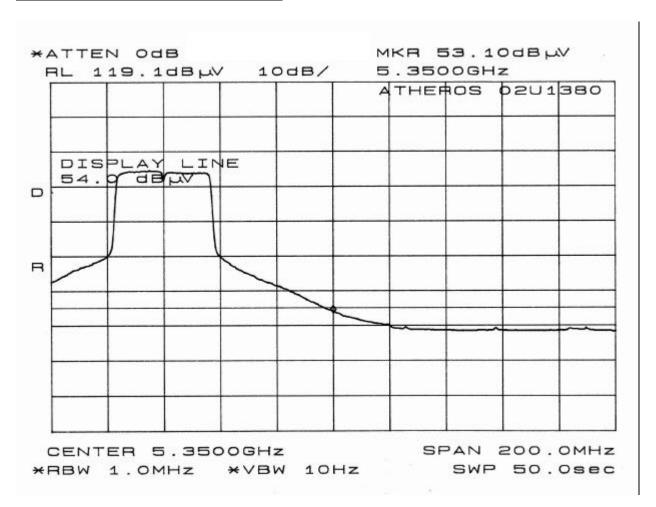
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TURBO MODE HIGH VERTICAL PEAK



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TURBO MODE HIGH VERTICAL AVERAGE



FUNDAMENTAL, HARMONIC AND SPURIOUS RADIATED EMISSIONS

Compliance Certification Services A-Site 6/28/02 Mike H

Radiated Emissions Atheros 02U1380

FCC 15.407 Transmitting 11a Base Mode 5.2 Band Low Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
			ID 1/	ID.		i		& HPF	Strength		dBuV/m	
GHz	V/H		dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBm	or dBm	dB
Note 1:	RBW	= 1 MH	lz.									
Fundamental:												
5.18	V	Peak	76.2	34.5	1	-9.5	0.0	3.7	104.86			
5.18	V	Avg	65.7	34.5	1	-9.5	0.0	3.7	94.36			
5.18	Η	Peak	65.4	34.5	1	-9.5	0.0	3.7	94.06			
5.18	Н	Avg	54.9	34.5	1	-9.5	0.0	3.7	83.56			
Band Ed	dge:											
5.15	V	Peak	39.2	34.5	1	-9.5	0.0	3.7	67.86		74	-6.14
5.148	V	Avg	24.4	34.5	1	-9.5	0.0	3.7	53.06		54	-0.94
5.149	Н	Peak	32.7	34.5	1	-9.5	0.0	3.7	61.36		74	-12.64
5.148	Н	Avg	18.9	34.5	1	-9.5	0.0	3.7	47.56		54	-6.44
Harmon	ics an	d Spuri	ous:									
6.216	V	Peak	58	35.4	1	-9.5	36.5	4.7	52.06	-43.14	-7	-36.14
6.216	V	Avg	55.5	35.4	1	-9.5	36.5	4.7	49.56	-45.64	-27	-18.64
6.216	Н	Peak	54.7	35.4	1	-9.5	36.5	4.7	48.76	-46.44	-7	-39.44
6.216	Н	Avg	50.8	35.4	1	-9.5	36.5	4.7	44.86	-50.34	-27	-23.34
Note 2:	No oth	ner non	-harmon	ic spurio	us em	ission	s were fo	und.				
Note 3:	All oth	er harn	nonic sp	urious er	nissio	ns we	re below s	system n	oise floor.			

Compliance Certification Services

A-Site

6/28/02 Mike H

Radiated Emissions Atheros 02U1380

FCC 15.407 Transmitting 11a Base Mode 5.2 Band Mid Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
GHz	V/H		dBuV	dB/m	m	dB	dB	& HPF dB	Strength dBuV/m	dBm	dBuV/m or dBm	dB
Note 1:	RBW	= 1 MF	łz.									
Fundam	ental:											
5.26	V	Peak	80.5	34.7	1	-9.5	0.0	3.7	109.36			
5.26	V	Avg	69.7	34.7	1	-9.5	0.0	3.7	98.56			
5.26	Н	Peak	69.5	34.7	1	-9.5	0.0	3.7	98.36			
5.26	Н	Avg	59.7	34.7	1	-9.5	0.0	3.7	88.56			
Harmon	ics an	d Spuri	ous:									
6.312	V	Peak	53.5	35.4	1	-9.5	36.5	4.8	47.66	-47.54	-7	-40.54
6.312	V	Avg	48.8	35.4	1	-9.5	36.5	4.8	42.96	-52.24	-27	-25.24
6.312	Н	Peak	52	35.4	1	-9.5	36.5	4.8	46.16	-49.04	-7	-42.04
6.312	Н	Avg	46.2	35.4	1	-9.5	36.5	4.8	40.36	-54.84	-27	-27.84
Note 2:	No oth	ner non	-harmon	ic spurio	us em	ission	s were for	und.				
Note 3:	All oth	er harn	nonic spi	urious er	nissio	ns we	re below s	system n	oise floor.			

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DOCUMENT NO: CCSUP4031A TEL: (408) 463-0885 FAX: (408) 463-0888

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Compliance Certification Services

A-Site

6/28/02 Mike H

Radiated Emissions Atheros 02U1380

FCC 15.407 Transmitting 11a Base Mode 5.2 Band High Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
		201	0,1	7 (.	2.00	2.00	oap	& HPF	Strength		dBuV/m	9
GHz	V/H		dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBm	or dBm	dB
Note 1:	RBW	= 1 MF	łz.									
Fundam	ental:											
5.32	V	Peak	76.2	34.9	1	-9.5	0.0	3.7	105.26			
5.32	V	Avg	65	34.9	1	-9.5	0.0	3.7	94.06			
5.32	Н	Peak	66.2	34.9	1	-9.5	0.0	3.7	95.26			
5.32	Н	Avg	55.4	34.9	1	-9.5	0.0	3.7	84.46			
Band Ed	dge:											
5.35	V	Peak	40.2	34.9	1	-9.5	0.0	3.7	69.26		74	-4.74
5.352	V	Avg	24	34.9	1	-9.5	0.0	3.7	53.06		54	-0.94
5.35	Н	Peak	31.4	34.9	1	-9.5	0.0	3.7	60.46		74	-13.54
5.352	Н	Avg	19	34.9	1	-9.5	0.0	3.7	48.06		54	-5.94
Note 2: No other non-harmonic spurious emissions were found.												
Note 3:	All oth	er harn	oise floor.	•								

Compliance Certification Services

A-Site

6/28/02 Mike H

Radiated Emissions Atheros 02U1380

FCC 15.407 Transmitting 11a Turbo Mode 5.2 Band Low Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

		Opecin	33.2									
Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
								& HPF	Strength		dBuV/m	
GHz	V/H		dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBm	or dBm	dB
Note 1:	RBW	= 1 MF	lz.									
Fundam	Fundamental:											
5.21	V	Peak	73.7	34.5	1	-9.5	0.0	3.7	102.36			
5.21	V	Avg	61.7	34.5	1	-9.5	0.0	3.7	90.36			
5.21	I	Peak	61.9	34.5	1	-9.5	0.0	3.7	90.56			
5.21	Τ	Avg	51.5	34.5	1	-9.5	0.0	3.7	80.16			
Band Ed	dge:											
5.149	V	Peak	37.5	34.5	1	-9.5	0.0	3.7	66.16		74	-7.84
5.15	V	Avg	21.4	34.5	1	-9.5	0.0	3.7	50.06		54	-3.94
5.146	Н	Peak	31	34.5	1	-9.5	0.0	3.7	59.66		74	-14.34
5.15	Н	Avg	18.9	34.5	1	-9.5	0.0	3.7	47.56		54	-6.44
Harmon	ics an	d Spuri	ous:									
6.252	V	Peak	54.3	35.4	1	-9.5	36.5	4.7	48.36	-46.84	-7	-39.84
6.252	V	Avg	51	35.4	1	-9.5	36.5	4.7	45.06	-50.14	-27	-23.14
6.252	Н	Peak	53.7	35.4	1	-9.5	36.5	4.7	47.76	-47.44	-7	-40.44
6.252	Н	Avg	49.2	35.4	1	-9.5	36.5	4.7	43.26	-51.94	-27	-24.94
Note 2:	No oth	ner non	-harmon	ic spurio	us em	ission	s were for	und.				
Note 3:	All oth	er harn	nonic spi	urious er	nissio	ns we	re below s	system n	oise floor.			

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TEL: (408) 463-0885 FAX: (408) 463-0888

Compliance Certification Services

A-Site

6/28/02 Mike H

Radiated Emissions Atheros 02U1380

FCC 15.407 Transmitting 11a Turbo Mode 5.2 Band Mid Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
								& HPF	Strength		dBuV/m	
GHz	V/H		dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBm	or dBm	dB
Note 1:	RBW	= 1 MH	lz.									
Fundam	ental:											
5.25	V	Peak	73.5	34.7	1	-9.5	0.0	3.7	102.36			
5.25	V	Avg	63	34.7	1	-9.5	0.0	3.7	91.86			
5.25	Н	Peak	63.4	34.7	1	-9.5	0.0	3.7	92.26			
5.25	Н	Avg	53.4	34.7	1	-9.5	0.0	3.7	82.26			
Harmon	ics an	d Spuri	ous:									
6.3	V	Peak	54.3	35.4	1	-9.5	36.5	4.8	48.46	-46.74	-7	-39.74
6.3	V	Avg	50.8	35.4	1	-9.5	36.5	4.8	44.96	-50.24	-27	-23.24
6.3	Н	Peak	52.7	35.4	1	-9.5	36.5	4.8	46.86	-48.34	-7	-41.34
6.3	Н	Avg	48.2	35.4	1	-9.5	36.5	4.8	42.36	-52.84	-27	-25.84
Note 2: No other non-harmonic spurious emissions were found.												
Note 3:	All oth	er harn	nonic spi	urious er	system n	oise floor.						

Compliance Certification Services

A-Site

6/28/02 Mike H

Radiated Emissions FCC 15.407

Transmitting 11a Turbo Mode 5.2 Band High Channel

Specification Distance: 3 m EIRP Conversion Factor: 95.2

Atheros 02U1380

Freq	Pol	Det	SA	AF	Dist	Dist	Preamp	Cable	Field	EIRP	Limit	Margin
1109	. 0.	Det	07	Ai	Dist	Dist	ricamp	& HPF	Strength		dBuV/m	ma giii
GHz	V/H		dBuV	dB/m	m	dB	dB	dB	dBuV/m	dBm	or dBm	dB
Note 1:	RBW	= 1 MI	lz.									
Fundam	Fundamental:											
5.29	V	Peak	75	34.9	1	-9.5	0.0	3.7	104.06			
5.29	V	Avg	64.7	34.9	1	-9.5	0.0	3.7	93.76			
5.29	Н	Peak	63.7	34.9	1	-9.5	0.0	3.7	92.76			
5.29	Н	Avg	54.2	34.9	1	-9.5	0.0	3.7	83.26			
Band Ed	dge:											
5.35	V	Peak	39.5	34.9	1	-9.5	0.0	3.7	68.56		74	-5.44
5.35	V	Avg	24	34.9	1	-9.5	0.0	3.7	53.06		54	-0.94
5.354	Τ	Peak	31.2	34.9	1	-9.5	0.0	3.7	60.26		74	-13.74
5.35	Τ	Avg	19	34.9	1	-9.5	0.0	3.7	48.06		54	-5.94
Harmon	ics an	d Spuri	ous:									
6.348	V	Peak	53.7	35.4	1	-9.5	36.5	4.8	47.86	-47.34	-7	-40.34
6.348	V	Avg	50.2	35.4	1	-9.5	36.5	4.8	44.36	-50.84	-27	-23.84
6.348	Н	Peak	51	35.4	1	-9.5	36.5	4.8	45.16	-50.04	-7	-43.04
6.348	Н	Avg	45.2	35.4	1	-9.5	36.5	4.8	39.36	-55.84	-27	-28.84
Note 2:	No oth	ner non	-harmon	ic spurio	us em	ission	s were fo	und.	·			
Note 3:	All oth	er harn	nonic spi	urious er	nissio	ns we	re below s	system n	oise floor.			

DOCUMENT NO: CCSUP4031A TEL: (408) 463-0885 FAX: (408) 463-0888

Project #:

Report #:

Date& Time:

Test Engr:

02U1380-1

020625A1

06/25/02 6:51 PM

Thanh Nguyen

DIGITAL DEVICE RADIATED EMISSIONS



FCC, VCCI, CISPR, CE, AUSTEL, NZ UL, CSA, TUV, BSMI, DHHS, NVLAP

561F MONTEREY ROAD, SAN JOSE, CA 95037-9001 PHONE: (408) 463-0885 FAX: (408) 463-0888

Company: ATHEROS COMMUNICATION, INC.

EUT Description: 802.11a/b/g Cardbus

Test Configuration : EUT plugin the Laptop, Printer, modem

Type of Test: FCC Class B

Mode of Operation: TX Mode at Lower UNII Mid Channel 5.6GHz

<< Main Sheet

Freq.	Reading	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
401.42	49.10	15.65	3.26	27.82	40.19	46.00	-5.81	3mV	270.00	1.00	Р
500.31	46.80	17.97	3.68	28.40	40.05	46.00	-5.95	3mV	270.00	1.00	Р
398.52	48.90	15.61	3.24	27.80	39.95	46.00	-6.05	3mV	270.00	1.00	Р
400.00	47.20	15.62	3.25	27.81	38.26	46.00	-7.74	3mV	270.00	1.00	Р
146.97	44.10	15.93	1.90	27.42	34.51	43.50	-8.99	3mV	180.00	1.00	Р
167.22	43.00	16.42	2.02	27.36	34.08	43.50	-9.42	3mV	90.00	1.00	Р
6 Worst	Data										

Note: Changing the transmitter band, mode or channel does not affect these emissions.

8.11. POWER LINE CONDUCTED EMISSIONS

TEST SETUP

The EUT is placed on a wooden table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane on the floor.

DATE: JULY 11, 2002 FCC ID: HZB-8460

The EUT is set to transmit in a continuous mode.

TEST PROCEDURE

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.

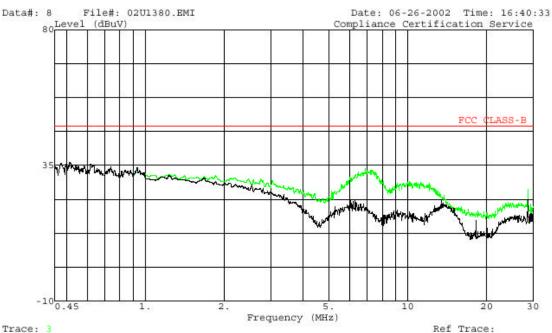
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

No non-compliance noted:



561F Monterey Road, San Jose, CA 95037 Tel: (408) 463-0885 Fax: (408) 463-0888



Trace: 3

Project # : 02U1380-1 Test Engineer: Thanh Nguyen

: ATHEROS COMMUNICATIONS, INC. Company

EUT : 802.11 a/b/g : Model: CB22

Test Config : EUT/laptop/ printer/ mouse Type of Test : FCC Class B

Mode of Op. : Tx

: L1: PK (Green), L2 (Black)

: 115VAc, 60Hz

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8.12. SETUP PHOTOS

TRANSMITTER ANTENNA PORT CONDUCTED RF MEASUREMENT SETUP





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TRANSMITTER RADIATED RF MEASUREMENT SETUP





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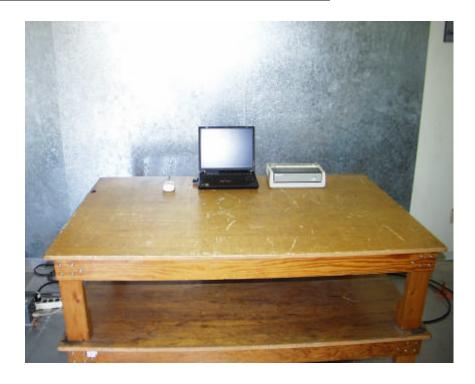
DIGITAL DEVICE RADIATED EMISSIONS MEASUREMENT SETUP





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POWERLINE CONDUCTED EMISSIONS MEASUREMENT SETUP





END OF REPORT

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