

## AC Line Conducted Emission Measurements

### LIMITS

Quasi-Peak:  $250\mu\text{V} = 47.9\text{dB}\mu\text{V}$  in the range 450kHz to 30MHz

[47 CFR 15.207(a) Revised as of October 1, 2001]

**Note:** On July 12, 2004, FCC adopts the conducted emissions limits of the European CISPR 22 standard as outlined below

Frequency of emission (MHz)	Quasi-peak limit (dB $\mu\text{V}$ )	Average limit (dB $\mu\text{V}$ )
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.

[47 CFR 15.207(a) Revised as of October 1, 2002; amended by ET Docket 98-80; FCC 02-157, published in the Federal Register Vol. 67, No. 132, on Wednesday, July 10, 2002]

## MEASUREMENTS

AC Mains Conducted Emissions										Curtis-Straus LLC		
Date: 21-Mar-03		Company: Terabeam		Table No:								
Engineer: Evan Gould		EUT Desc: Gigalink		Work Order: C0959								
Notes: AC side of DC supply		Test Site:										
LISN(s): Red												
Range: 0.15-30Mhz		Other Equipment: ---		Spectrum Analyzer: Blue								
Frequency (MHz)	Q.P. Readings		Ave. Readings		Impedance Factor (dB)	FCC B Applicable until July 12, 2004		FCC/CISPR B		FCC/CISPR B		Overall Result (Pass/Fail)
	QP1 (dB $\mu\text{V}$ )	QP2 (dB $\mu\text{V}$ )	AV1 (dB $\mu\text{V}$ )	AV2 (dB $\mu\text{V}$ )		Limit (dB $\mu\text{V}$ )	Margin dB	qp Limit (dB $\mu\text{V}$ )	qp Margin dB	AVE Limit (dB $\mu\text{V}$ )	AVE Margin dB	
0.37	10.4	10.7			20.0	---	---	58.5	-27.8	48.5	-17.8	Pass
6.42	7.0	6.4			20.0	47.9	-20.9	60.0	-33.0	50.0	-23.0	Pass
12.80	4.8	6.4			20.0	47.9	-21.5	60.0	-33.6	50.0	-23.6	Pass
17.50	5.1	5.6			20.0	47.9	-22.3	60.0	-34.4	50.0	-24.4	Pass
23.70	4.3	4.4			20.0	47.9	-23.5	60.0	-35.6	50.0	-25.6	Pass
28.50	5.0	7.2			20.0	47.9	-20.7	60.0	-32.8	50.0	-22.8	Pass
<b>Table Result:</b>		Pass		by		-17.80 dB		<b>Worst Freq:</b>		0.37 MHz		