

Physio Systems, Inc. Transmitter Field Strengths

Vertical Polarization Values.

Harmonic Number	Frequency MHz	Spectrum Analyzer Reading	Antenna Factors dB/m	Cable Loss dB	Pre-Amp Gain	Duty Cycle dB	Corrected Reading dBuV/m	Specification Limit dBuV/m	Margin dB
1	299.75	53.7	14.2	6	27	-8.9	38.0	46	8.0
2	599.50	44.9	19.7	8.6	27	-8.9	37.3	46	8.7
3	899.25	28.5	23.9	9.2	27	-8.9	24.3	46	21.7
4	1199.00	20.4	22.5	9.0	27	-8.9	16.0	54	38.0
5	1498.75	20.4	22.5	9.7	27	-8.9	16.7	54	37.3
6	1798.50	18.9	22.6	10.3	28	-8.9	14.9	54	39.1
7	2098.25	19.4	22.3	10.8	28	-8.9	15.6	54	38.4
8	2398.00	19.5	22.3	11.2	28	-8.9	16.1	54	37.9
9	2697.75	20.9	22.3	11.5	28	-8.9	17.8	54	36.2
10	2997.50	20.8	22.3	11.8	28	-8.9	18.0	54	36.0

Test Date: 14 November 2001

Harmonic numbers 1, 2 and 3 are measured with a Quasi-peak detector. All other harmonics measured with Average Detector.

Duty Cycle = $20 \cdot \text{LOG}(\text{Ton}/\text{Ttot}) = 20 \cdot \text{LOG}(5.4 \text{ mS}/15 \text{ mS}) = -8.9 \text{ dB}$

Figure 16. Corrected Values of Vertical E-Field Strength Versus FCC Limit.