

Physio Systems, Inc. Transmitter Field Strengths

HORIZONTAL POLARITY

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	299.74	56.2	14.2	6	27	-8.9	40.5	46	5.5
2	599.48	35.7	19.7	8.6	27	-8.9	28.1	46	17.9
3	899.22	26.6	23.9	9.2	27	-8.9	22.4	46	23.6
4	1198.96	20.4	22.5	9.0	27	-8.9	16.0	54	38.0
5	1498.70	20.4	22.5	9.7	27	-8.9	16.7	54	37.3
6	1798.44	18.9	22.6	10.3	28	-8.9	14.9	54	39.1
7	2098.18	19.4	22.3	10.8	28	-8.9	15.6	54	38.4
8	2397.92	19.5	22.3	11.2	28	-8.9	16.1	54	37.9
9	2697.66	20.7	22.3	11.5	28	-8.9	17.6	54	36.4
10	2997.40	20.9	22.3	11.8	28	-8.9	18.1	54	35.9

Test Date: 14 November 2001

Harmonic Numbers 1, 2 & 3 measured with Quasi-Peak detector. All other harmonics measured with Average detector.

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

Figure 15. Corrected Values of Horizontal E-Field Strength Versus FCC Limit.