

5.FIELD STRENGTH OF SPURIOUS RADIATION - Paragraph [2.933,2.997,90.209(c)(3)]

Measurements were made on the three-meter range maintained by Radiation Science Inc. Radiated emissions were measured with the antenna in both vertical and horizontal polarization's. The antenna was raised 1 to 4 Meters in height and the equipment under test (EUT) was rotated 360 degrees To maximize the emission.

During radiated emissions testing the EUT was scanned from 30 - 1600 MHz (10 times the fundamental frequency).

An average factor of 20dB was applied to the level of the fundamental Emission when compared to the FCC limit.

ALL LEVELS COMPLY WITH APPLICABLE LIMITS.

Vertical:		Level	Antenna	Cable	Averaging	Field Strength	FCC	
MHz	Height(m)	dbuV	Factor(db)	Loss(db)	Factor(db)	@3m dbm	dbc	LIMIT
163.91	1.00	97.0	13.0	1.6	-20	-15.4	Reference	
327.83	1.90	22.0	15.0	2.0	-20	-88.0	72.6	53dbc
655.65	2.90	16.0	19.0	4.0	-20	-88.0	72.6	53dbc
819.56	1.40	12.0	22.0	4.0	-20	-89.0	73.6	53dbc
1147.0	1.40	11.0	26.0	4.0	-20	-86.0	70.6	53dbc

Horizontal:		Level	Antenna	Cable	Averaging	Field Strength	FCC	
MHz	Height(m)	dbuV	Factor(db)	Loss(db)	Factor(db)	@3m dbm	dbc	LIMIT
163.91	1.80	91.0	13.0	1.6	-20	-21.4	Reference	
327.83	1.90	26.0	15.0	2.0	-20	-81.0	62.6	53dbc
655.65	1.30	17.0	20.0	4.0	-20	-86.0	67.6	53dbc
819.56	1.30	15.0	22.0	4.0	-20	-86.0	64.6	53dbc
1147.0	1.30	9.0	26.0	4.0	-20	-88.0	66.6	53dbc

$$50 + 10\log(2) = 53\text{dbc} \text{ (FCC limit)}$$