

15.247(c) &15.109(b) Field_strength_of_spurious_emissions:

REQUIREMENTS: Emissions that fall in the restricted bands (15.205) must be less than 54dBuV/m otherwise the spurious and harmonics must be attenuated by at least 20dB.

TEST DATA:

EMISSION FREQUENCY MHz	METER READING @ 3m dBuV	COAX LOSS dB	ACF dB	PEAK		ATT. LEVEL dB	MARGIN dB	ANT.
				FIELD STRENGTH dBuV/m	PEAK FIELD STRENGTH dBuV/m			

YAGI ANTENNA

2413.00	73.50	1.09	29.03	103.62	0.0	0.0	V
4824.00R	8.20	1.45	33.93	43.58	60.04	10.42	V
7237.00	<1.90	1.82	36.64	40.36	63.26	13.64	V
2429.00	72.80	1.09	29.07	102.97	0.0	0.0	V
2483.50R	7.60	1.10	29.21	37.91	65.06	16.10	V
4858.00R	7.40	1.46	33.97	42.82	60.15	11.18	V
2455.00	71.10	1.10	29.14	101.34	0.0	0.0	V
2483.50R	16.60	1.10	29.21	46.91	54.43	7.09	V
4910.00R	5.60	1.47	34.02	41.09	60.25	12.91	V

PARABOLIC ANTENNA: 24dBi

2413.00	77.20	1.09	29.03	107.32	0.0	0.0	V
4824.00R	5.80	1.45	33.93	41.18	66.14	12.82	V
7237.00	<2.80	1.82	36.64	41.26	76.56	12.74	V
9650.00	<1.00	2.11	38.60	41.71	76.11	12.29	V
2429.00	77.80	1.09	29.07	107.97	0.0	0.0	V
2483.50R	12.60	1.10	29.21	42.91	65.06	11.09	V
2483.50R	7.60	1.10	29.21	37.91	70.06	16.09	V
4858.00R	7.40	1.46	33.97	42.82	65.15	11.18	V
2455.00	76.70	1.10	29.14	106.94	0.0	0.0	V
2483.50R	21.60	1.10	29.21	51.91	55.00	2.09	V
4910.00R	9.20	1.47	34.02	44.69	70.05	9.31	V
7365.00R	<2.90	1.84	36.79	41.52	73.22	12.48	V
9820.00	<0.60	2.13	38.71	41.44	73.3	12.56	H

NOTE: ATTENUATION = PEAK CARRIER LEVEL - PEAK LEVEL OF HARMONIC
MARGIN = 54dBuV/m - PEAK LEVEL OF HARMONIC

APPLICANT: TELLUMAT (PTY) LIMITED.

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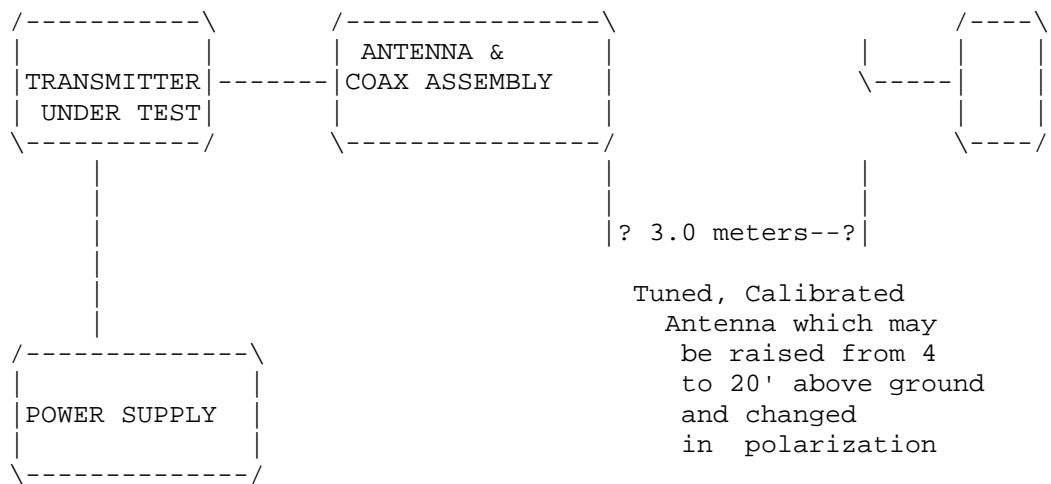
METHOD OF MEASUREMENT: The procedure used was ANSI STANDARD C63.4-1992 except the spread spectrum portion was connected to its custom antenna at a height of 1.5 meters. The spectrum was scanned from 30MHz to at least the tenth harmonic of the fundamental. Above 1.0GHz the RBW was 1.0MHz and the VBW was 1.0MHz. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 6051 N.W. 19th LANE, GAINESVILLE, FL 32605.

2.993(a)(b)

2.993(a)(b) Continued Field_strength_of_spurious_emissions:

Method of Measuring Radiated Spurious Emissions

Hewlett Packard
Spectrum
Analyzer
HP8566A



Equipment placed 4' above ground
on a rotatable platform.

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