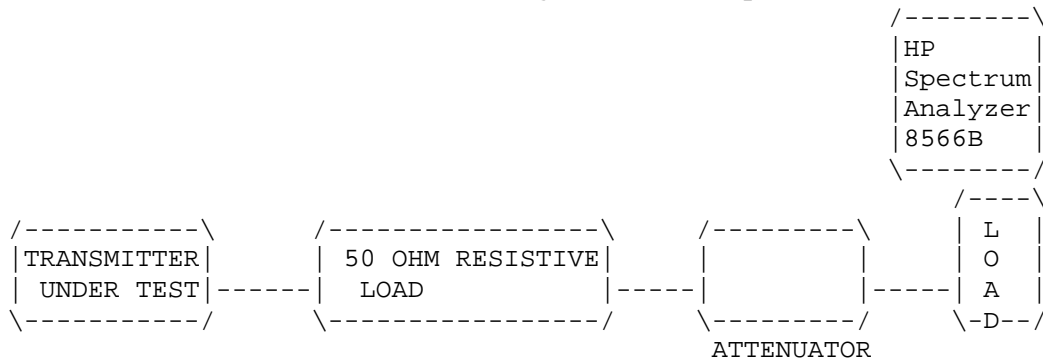


2.1051

Spurious emissions at antenna terminals(conducted):
Data on the following page shows the level of conducted spurious responses. The carrier was modulated 100% using a 2500Hz tone. The spectrum was scanned from 0.4 to at least the 10th harmonic of the fundamental. The measurements were made in accordance with standard TIA/EIA-603.

Method of Measuring Conducted Spurious Emissions



REQUIREMENTS:

Emissions must be $43 + 10\log(P_o)$ dB below the mean power output of the transmitter.

For 25KHz $43 + 10\log(2.0) = 43 + 3.01 = 46.01$ dB

* For 12.5KHz $50 + 10\log(P_o) = 50 + 3.01 = 53.01$ dB

EMISSION FREQUENCY MHz	dB BELOW CARRIER	* Margin
464.60	00.00	
929.20	-83.40	30.39
1393.80	-100.40	47.39
1858.40	-93.60	40.59
2323.00	-92.30	39.29
2787.60	-117.30	64.29
3252.20	-101.80	48.79
3716.80	-91.10	38.09
4181.40	-103.90	50.89
4646.00	-98.60	45.59

METHOD OF MEASUREMENT: The procedure used was TIA/EIA-603 STANDARD without any exceptions. An audio generator was connected to the UUT through a dummy microphone circuit and the output of the transmitter connected to a standard load and from the standard load through a pre-selector filter of the spectrum analyzer. The spectrum was scanned from 400KHz to at least the tenth harmonic of the fundamental using a HP model 8566B spectrum analyzer. The measurements were made using the shielded room located at TIMCO ENGINEERING INC. 849 N.W. State Road 45, Newberry, Florida 32669.

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2.1053 Field strength of spurious emissions:

NAME OF TEST: RADIATED SPURIOUS EMISSIONS

REQUIREMENTS: Emissions must be 50 +10log(Po) dB below the mean power output of the transmitter.

$$50 + 10\log(2.0) = 53.01 \text{ dB}$$

TEST DATA:

EMISSION FREQUENCY MHz	METER READING @ 3m dBuV	COAX LOSS dB	ACF dB	FIELD STRNGTH dBuV/m	ATT. dBuV/m	MARGIN dB	ANT
467.90	108.40	1.60	18.56	128.56	0.00	0.00	H
935.80	21.60	2.90	24.19	48.69	79.88	26.87	H
1403.70	28.70	1.00	25.61	55.31	73.25	20.24	V
1871.60	24.40	1.01	27.49	52.90	75.66	22.65	V
2339.50	28.60	1.08	28.85	58.53	70.03	17.02	V
2807.40	0.40	1.15	30.02	31.57	96.99	43.98	V
3275.30	19.40	1.22	31.19	51.81	76.75	23.74	V
3743.20	8.50	1.29	32.36	42.15	86.41	33.40	V
4211.10	3.30	1.36	33.24	37.90	90.66	37.65	V
4679.00	3.10	1.43	33.76	38.30	90.27	37.26	V

METHOD OF MEASUREMENT: The tabulated Data shows the results of the radiated field strength emissions and attenuation calculated per TIA/EIA 603. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental. This test was conducted per TIA/EIA 603. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. STATE ROAD 45, NEWBERRY, FL 32669.

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