- 2.983(d) (7) Complete Circuit Diagrams: The circuit diagram is included as EXHIBIT #7. The block diagram is included as EXHIBIT #5.
 - (8) Instruction book. The instruction manual is in cluded as EXHIBIT #8.
 - (9) Tune-up procedure. The tune-up procedure is given in EXHIBIT #10.
 - (10) Description of all circuitry and devices provided for determining and stabilizing frequency is included in the circuit description in the instruction manual.
- 2.983 (11) Description of any circuits or devices employed for suppression of spurious radiation, for limiting modulation, and for limiting power.

 In addition to the interstage filtering the multisection low pass filter made up of L12, L11, C40, C47, C95, C46, C94, C45, & C26.

Limiting Modulaton:

The transmitter audio limiting circuitry is contained in the loop filter IC01.

Limiting Power: There is no provision for limiting

power.

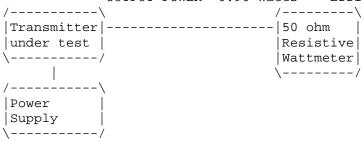
- (12) Digital modulation. This unit does NOT use digital modulation.
- 2.983(e) The data required by 2.985 through 2.997 is submitted below.
- 2.985(a) RF power output.

RF power is measured by connecting a 50 ohm, resistive wattmeter to the RF output connector. With a nominal battery voltage of 13.6V, and the trans mitter properly adjusted the RF output measures:

HIGH POWER

INPUT POWER: (13.2V)(1.26A) = 16.6 Watts
OUTPUT POWER: 5.0 Watts Efficiency: 30%

LOW POWER



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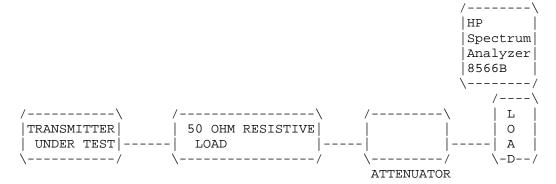
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2.991

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



2.991 Continued

Spurious_Emissions_at_the_Antenna_Terminals:

REQUIREMENTS:

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

For 25KHz $43 + 10\log(5.0) = 43 + 7.0 = 50.0\text{dB}$ For 12.5KHz $50 + 10\log(\text{Po}) = 50 + 7.0 = 57.0$

EMISSION	db below	
FREQUENCY	CARRIER	
MHz		
	HIGH POWER	LOW POWER
154.60	00.0	0.00
309.20	-62.3	-61.5
463.80	-72.5	-66.4
618.40	-63.4	-60.6
773.00	-80.6	-72.2
927.60	-64.6	-66.3
1082.20	-63.0	-64.1
1236.80	-80.1	-78.9
1391.40	-75.6	-74.6
1546.00	-76.4	-77.3

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 preselector 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. 25355 WEST NEWBERRY ROAD, NEWBERRY FLORIDA 32669.

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