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Federal Communications Commission
Equipment Authorization Division
Applications Processing Branch
7435 Oakland Mills Road
Columbia, MD 21046

February 3, 1999

Reference Number: 5427

Dear Mr. Dichoso,

I received your fax of January 4, 1999 concerning Radio Systems' application for Type Acceptance of our TR-6000 AM transmitter, FCC ID B7MTR-6000TIS-WB. Unfortunately some erroneous test data found it's way in to the TR-6000 Measurement Report. Enclosed is the corrected data and additional information you requested.

In regard to the indication on the manual of a 10 Watt and 30 Watt version of the unit. The TR-6000 is a 30 Watt transmitter with a provision to adjust the RF output power continuously downward to 0.5 Watts, enabling the user to comply with a specified field strength limit. This is in accordance with Part 90.242(b)(3)(ii). The "factory" power set adjustment can be set for a 10 Watt RF output with the "user" power adjustment in it maximum position ensuring user compliance with Part 90.242(b)(4)(iii).

I apologize for any confusion that may have been created.

Sincerely,

A handwritten signature in dark ink, appearing to read "Thomas E. Matznick".

Thomas E. Matznick
Product and Service Manger

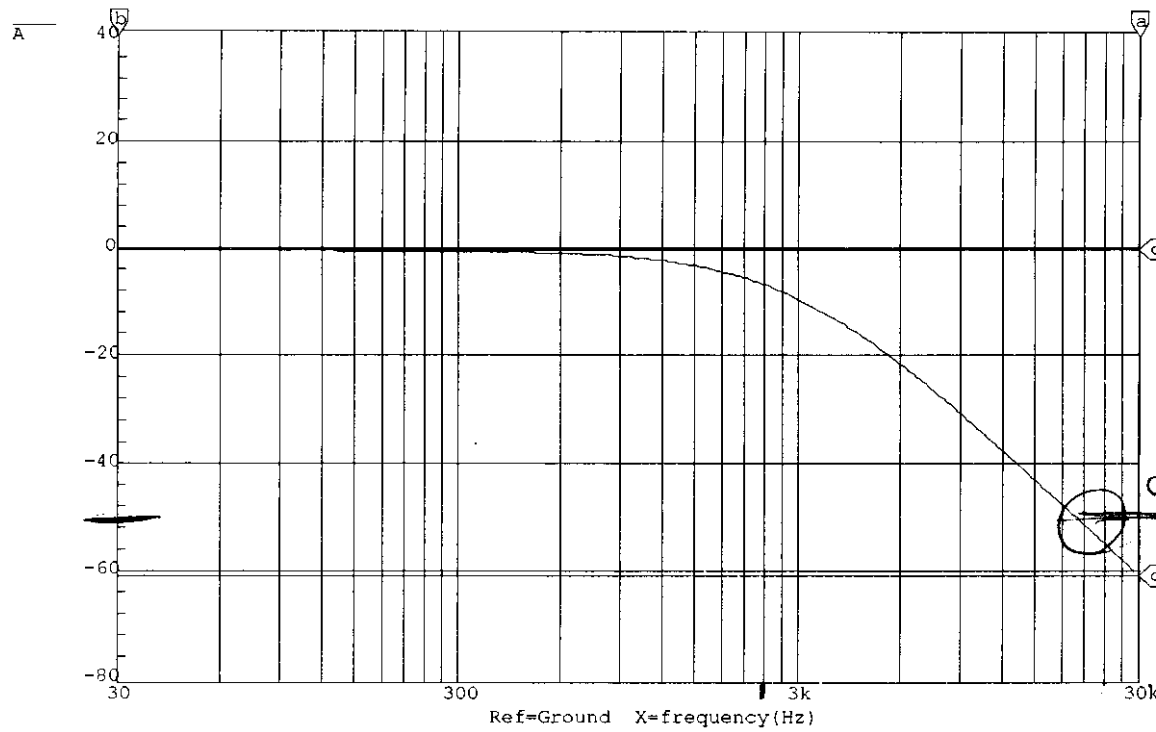
FEB 9 11 25 AM '99

FCC LABORATORY
OFF

enclosures: Exhibit-F.1 pgs. 3 and 4
Exhibit-G
Exhibit-H

TR-6000 AUDIO LOW-PASS FILTER RESPONSE CURVE

Xa: 30.00kXb: 30.00 a-b: 29.97k
Yc: 0.000 Yd:-61.00 c-d: 61.00



TR-6000 MODULATION AUDIO FREQUENCY RESPONSE PROCEDURE

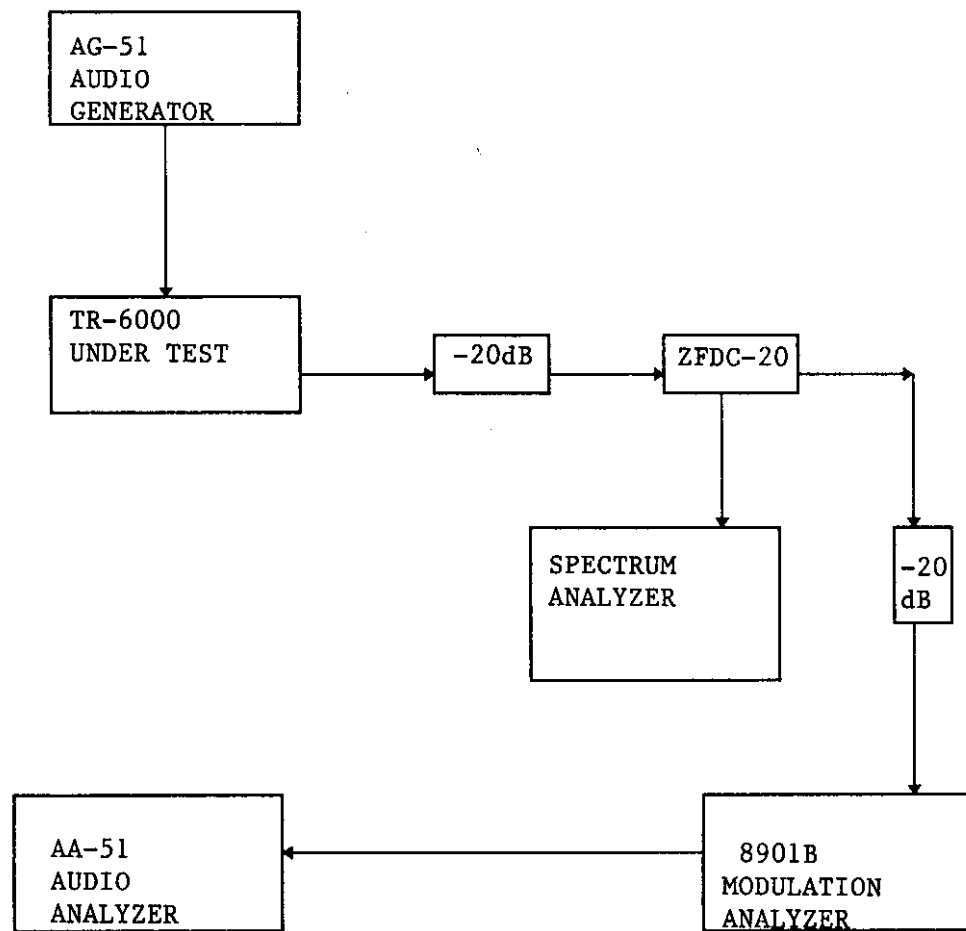


Fig. 1

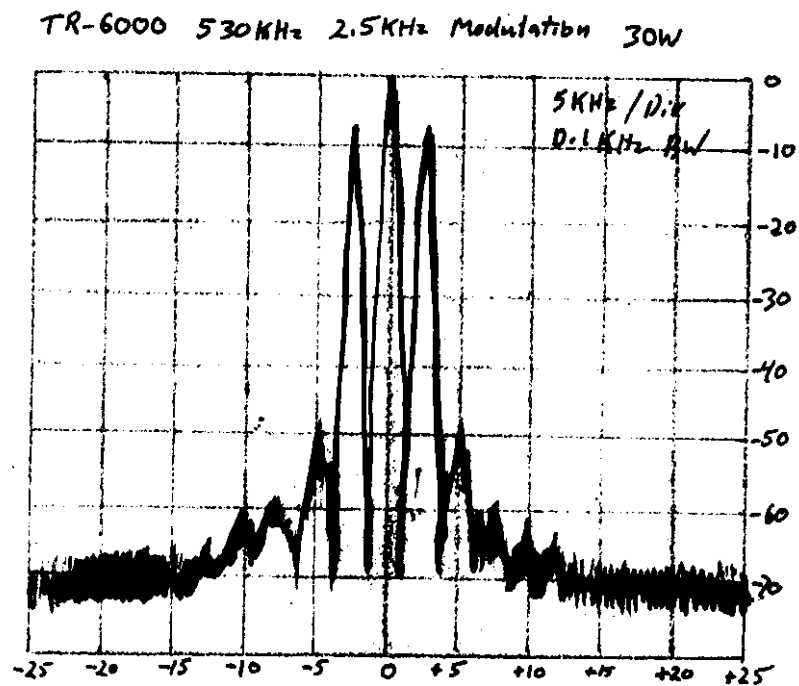
The unit under test is connected as shown in figure 1 above. The audio generator is set to 1kHz and the TR-6000 audio level is adjusted for 90% modulation. The detected output of the 8901B is fed to the AA-51 and a reference is set. The audio generator is then adjusted from 20Hz to 5000Hz and the relative frequency response is recorded.

Note: Error04 is disabled on the 8901B inhibiting audio auto ranging

TR-6000 OCCUPIED BANDWIDTH

Transmitter modulated with 2500Hz at 16dB above 50% modulation at the frequency of maxim response.

Carrier Frequency:
530KHz

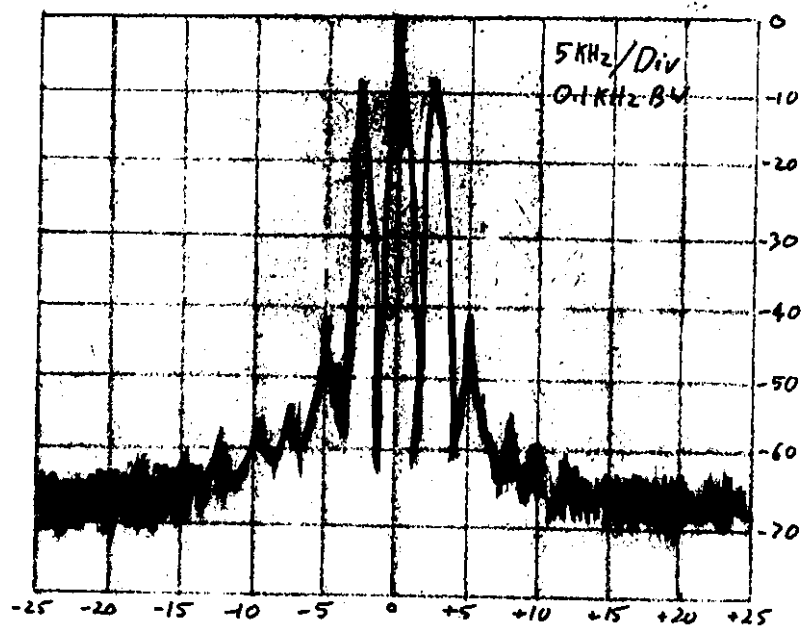


Test performed by: T.E.M
EXHIBIT-G
B7MTR-6000TIS-WB

Date: 8-31-98

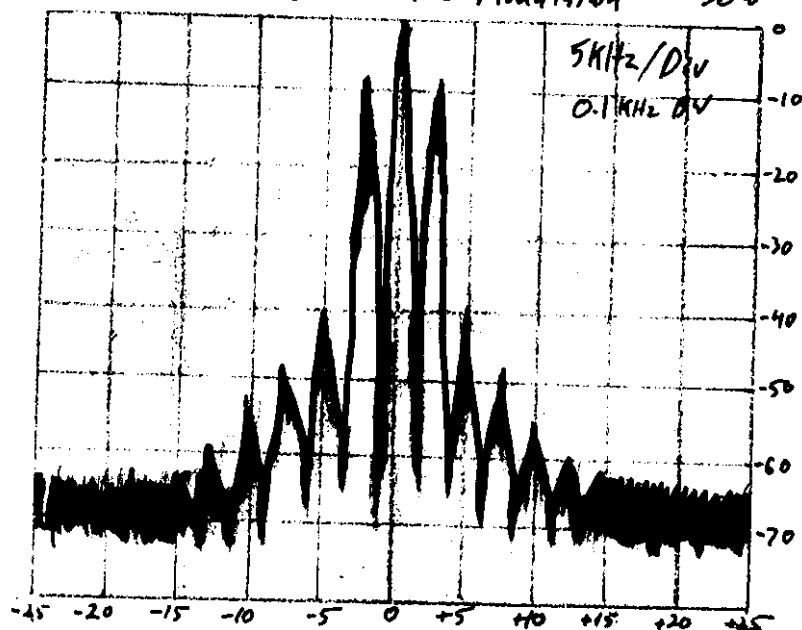
Carrier Frequency:
1110KHz

TR-6000 1110KHz 2.5KHz Modulation 30V



Carrier Frequency:
1700KHz

TR-6000 1700KHz 2.5KHz Modulation 30V



Test performed by: T.E.M
EXHIBIT-G
B7MTR-6000TIS-WB

Date: 8-31-98

TR-6000 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Transmitter modulated with 2500Hz at 16dB above 50% modulation at the frequency of maxim response.

Carrier Frequency:

530KHz

1110KHz

1700KHz

Spur Freq. KHz	Atten. -dBc	Spur Freq. KHz	Atten. -dBc	Spur Freq. KHz	Atten. -dBc
1057.5	-68	1092.5	-66	1685	-63
1060	-61	1095	-62	1690	-54
1062.5	-68	1105	-42	1692.5	-48
1587.5	-71	1115	-42	1695	-40
1590	-65	1125	-65	1705	-41
1592.5	-72	1127.5	-66	1707.5	-48
2120	-75	2217.5	-75	1715	-63
2650	-74	2220	-63	3400	-74
3180	-76	2222.5	-75	5100	-76
		3327.5	-69	6800	-72
		3330	-61	8500	-72
		3332.5	-68	10200	-77
		4437.5	-72	20400	-75
		4440	-65		
		4442.5	-73		
		5550	-75		

5Kc -
+ 5Kc
+ 7.5
Δ