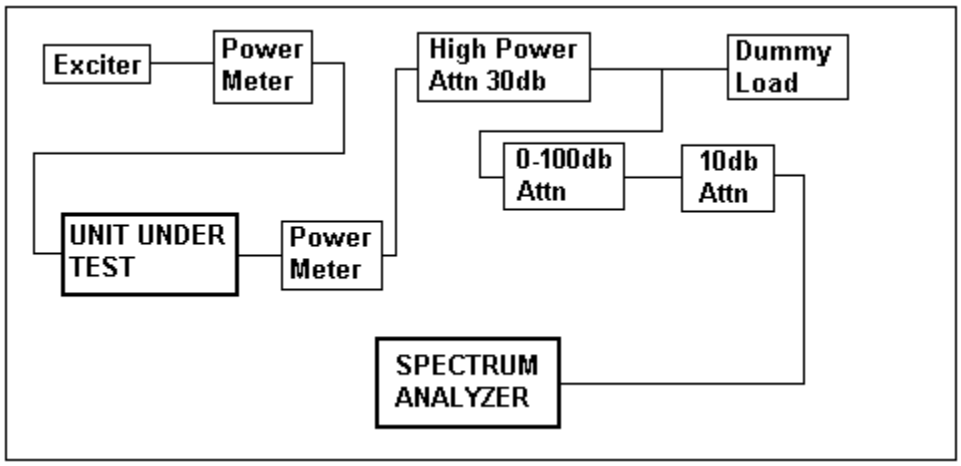
TEST REPORT
COMMAND TECNOLOGIES Inc.
VHF-2000 Linear Power Amplifier

Equipment

1. Yaesu model 736R S/N 1f46219 VHF transceiver
2. Coaxial Dynamics Model 81000-A, S/N 1166 & 1167 wattmeter
3. Bird Tenuline Model 8329. S/N 695, 50 ohm power attenuator
4. Telonic Model TG950, S/N 2426A, step attenuator
5. Harris Model 992-4548-00, S/N 3473-11, fixed attenuator
6. Hewlett Packard Model 8591E, spectrum analyzer
Calibration Date: 04-10-95
7. Bird Termaline Model 8251, S/N 695, 50 ohm "dummy load"



Test Results

Two prototype units were tested using the listed test equipment and configured according to the test equipment interconnection block diagram. Both units displayed nearly identical performance. Tests were performed on all amateur radio bands at 1500 watts output level. All spurious and harmonic radiation measured at least -60 db down from fundamental output. IMD products were at -35 db using a two-tone test. The frequency spectrum was investigated up to 1800 MHz. No harmonic radiation exceeded the 50 milliwatt limitation. Spectrum analyzer plots have been furnished to verify this.

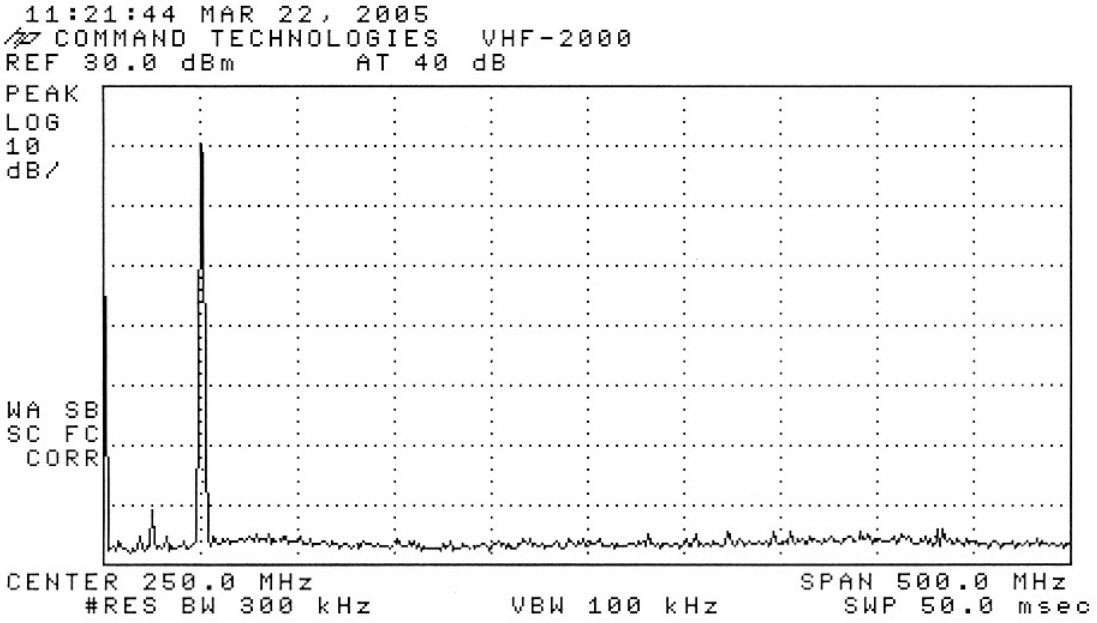
Tests were also performed from 24.00 MHz to 26.00 MHz and 28.00 MHz to 35.00 MHz. The output did not exceed the 6 db gain limitation. Also, tests were conducted from 26.00 MHz to 28.00 MHz. No amplification <0 db gain> was detected.

6 Meter Band

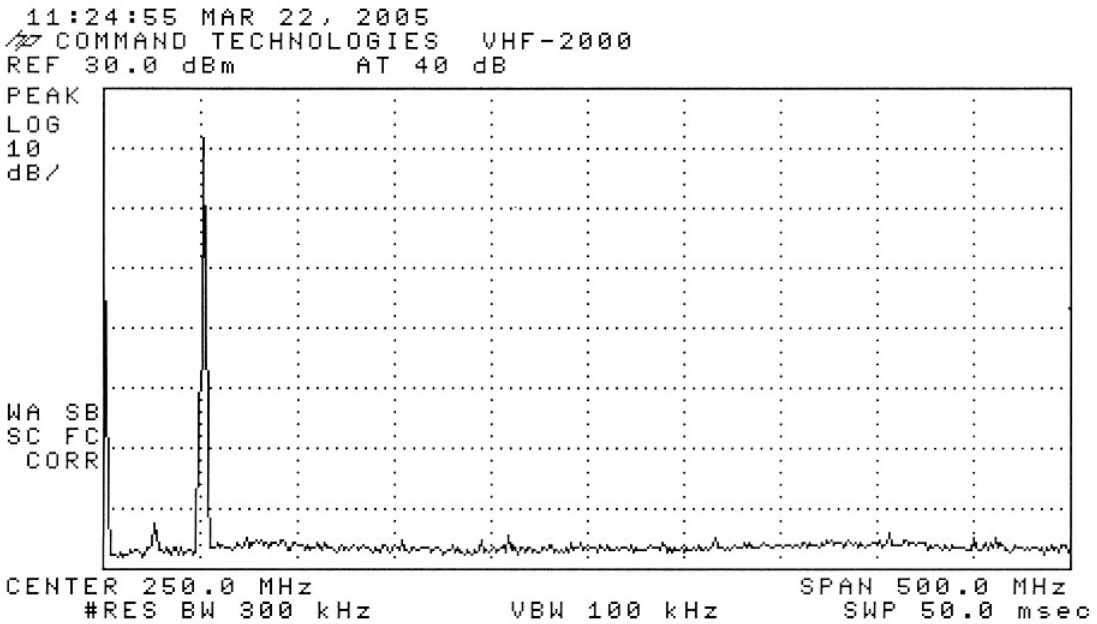
Frequency:	50-54 MHz
Input Power:	< 50 watts
Plate Voltage:	2,650 v
Plate Current:	1000 mA
Grid Current:	50 mA
Grid Bias:	8.2 v
Power Output:	1,500 watts
2nd Harmonic:	-60 db
3rd thru 10th Harmonic:	> -60 db

Spectrum Analyzer

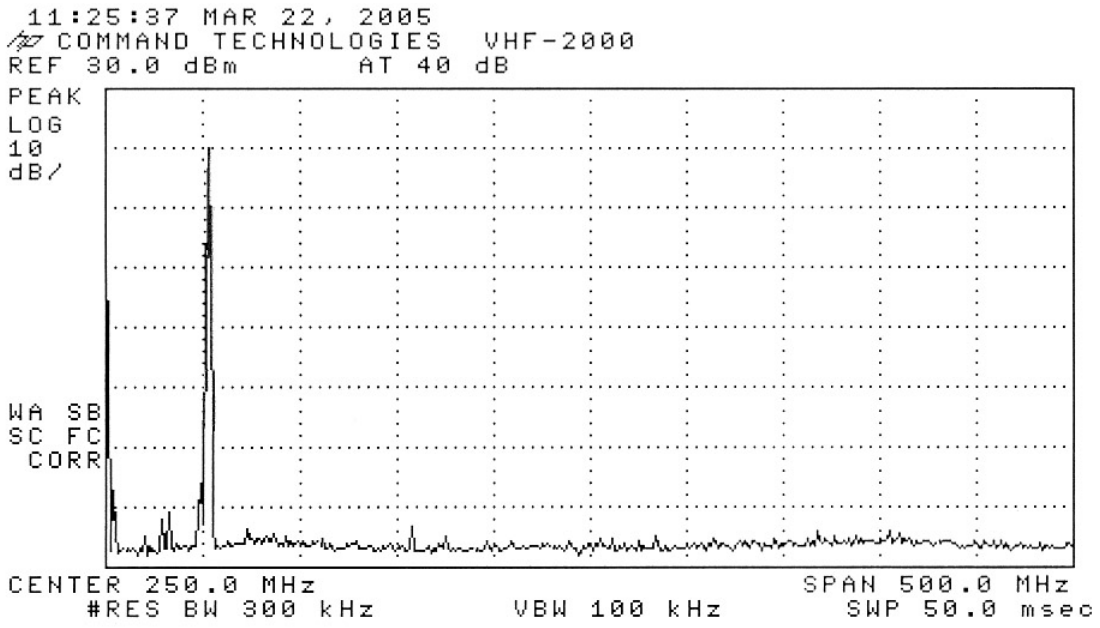
50.125 MHz



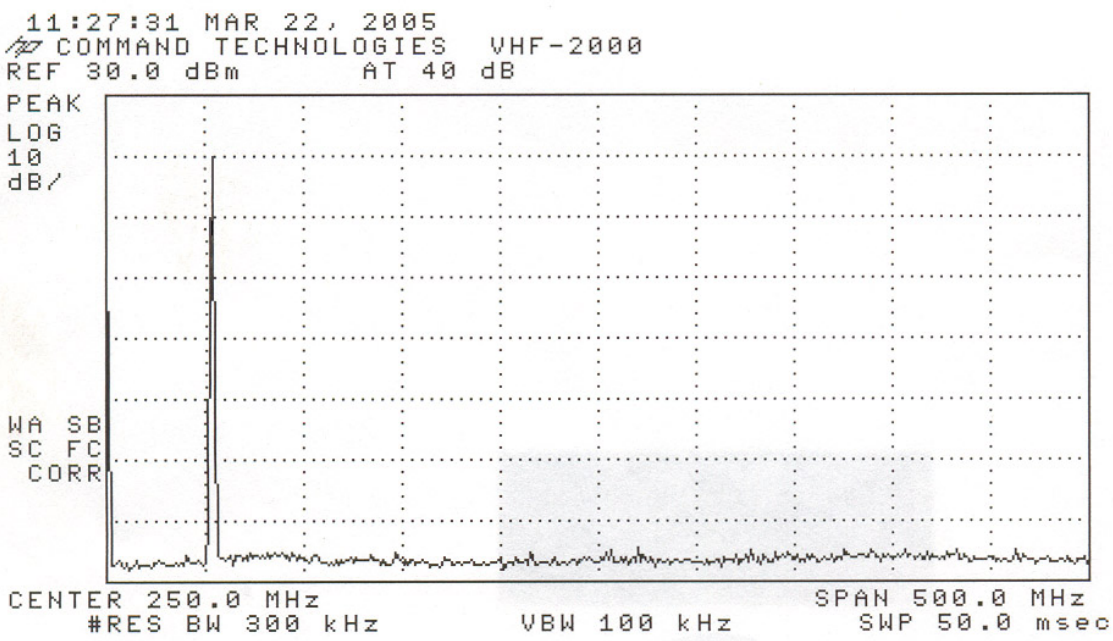
51.125 MHz



52.125 MHz



53.125 MHz



Full Spectrum View