

MFA **M. Flom Associates, Inc. - Global Compliance Center**
3356 North San Marcos Place, Suite 107, Chandler, Arizona 85225-7176
www.mflom.com general@mflom.com (480) 926-3100, FAX: 926-3598

Federal Communications Commission
Authorization and Evaluation Division
7435 Oakland Mills Rd.
Columbia, MD. 21046

February 18, 2000

Attention: M. Frank Coperich
Applicant: ICOM Incorporated
Equipment: IC-M1V
FCC ID: AFJIC-M1V EA96067
Correspondence Reference Number: 12179


Frank,

Please find attached all test data and support documentation as requested in your correspondence of February 16, 2000. This includes high and low power plots of the scrambled audio tone.

Voice scrambling is accomplished by bandpass limiting the incoming voice signal from 300 to 1800 Hz, then heterodyning with a reference tone of 2300 Hz. The output is then fed to the limiting and modulation stages. The accompanying plots show the distortion effects of that heterodyning for an audio signal +16dB higher than that which will produce 50% deviation, yet the actual emission envelope will not be any worse than that for voice modulation.

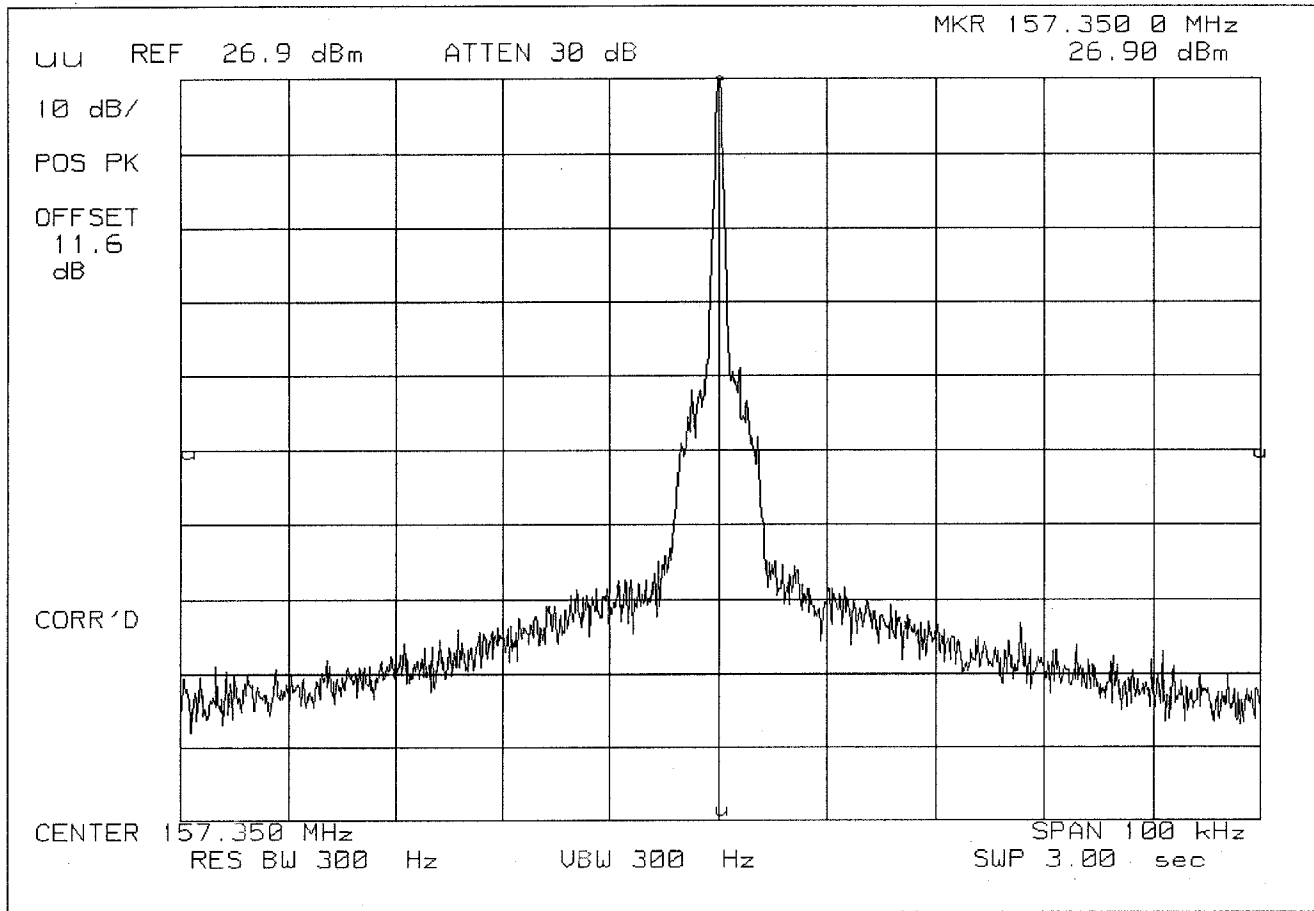
We also request from the Commission the addition of any appropriate emission designator.

Sincerely,


William H. Graff
Director of Engineering

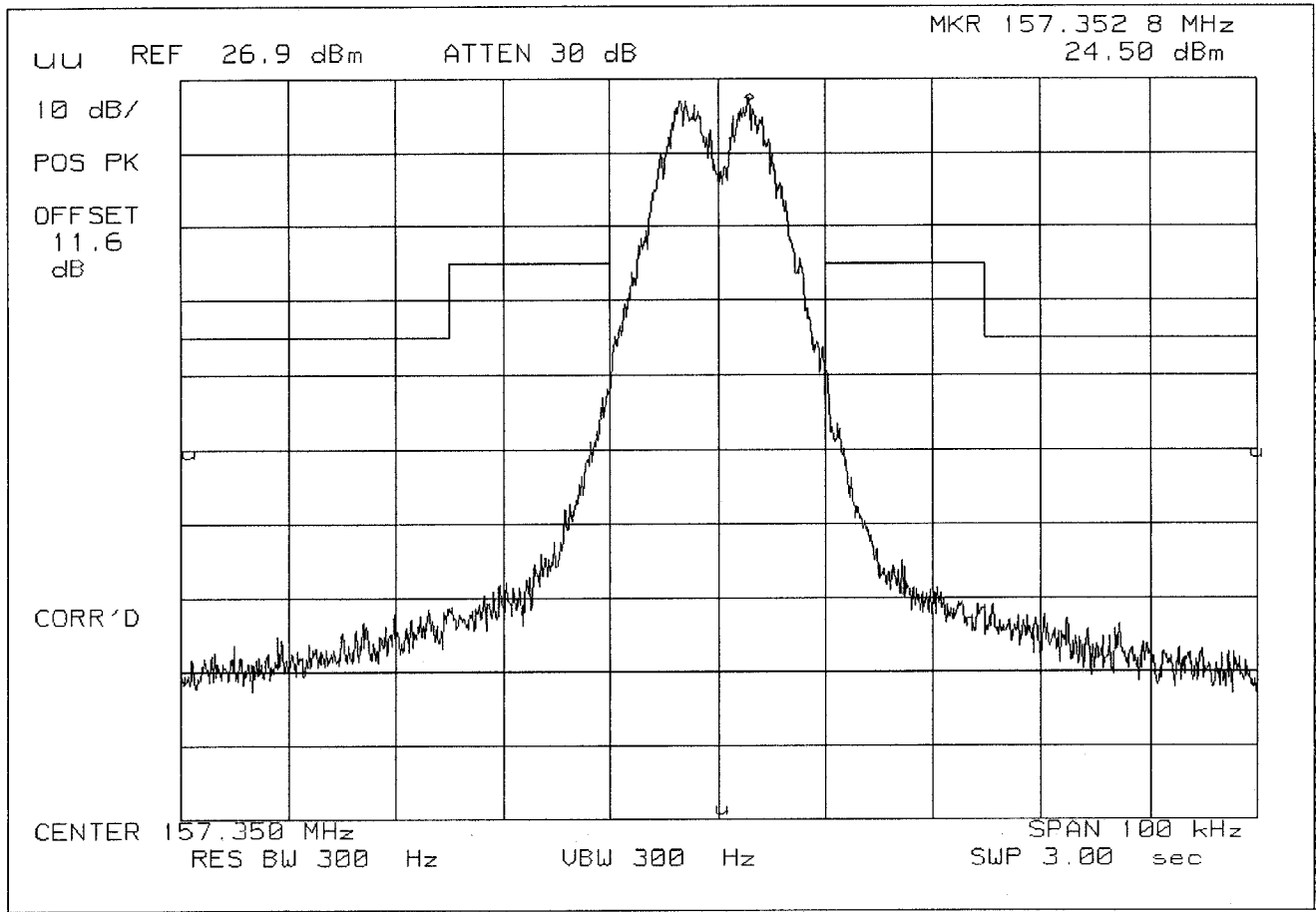
SPECTRUM ANALYZER PRESENTATION
ICOM, IC-M1V
2000-FEB-17, 14:47, THR

POWER: LOW
MODULATION: NONE



SPECTRUM ANALYZER PRESENTATION
ICOM, IC-M1V
2000-FEB-17, 15:15, THR

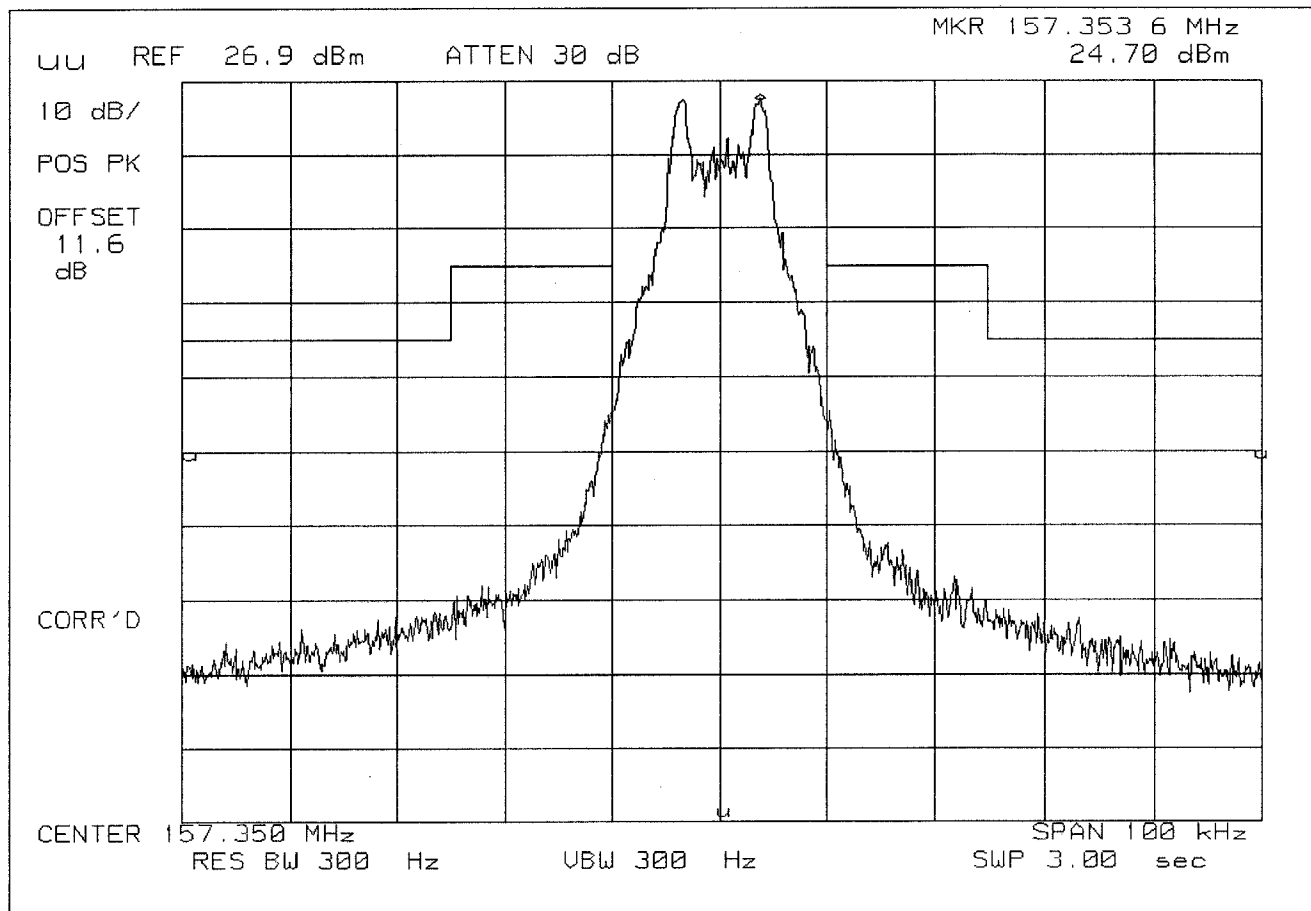
POWER: LOW
MODULATION: SCRAMBLED 500 HZ INPUT / 1800 HZ OUTPUT
MASK: B, VHF/UHF 25kHz, w/LPF



SPECTRUM ANALYZER PRESENTATION

ICOM, IC-M1V
2000-FEB-17, 15:17, THR

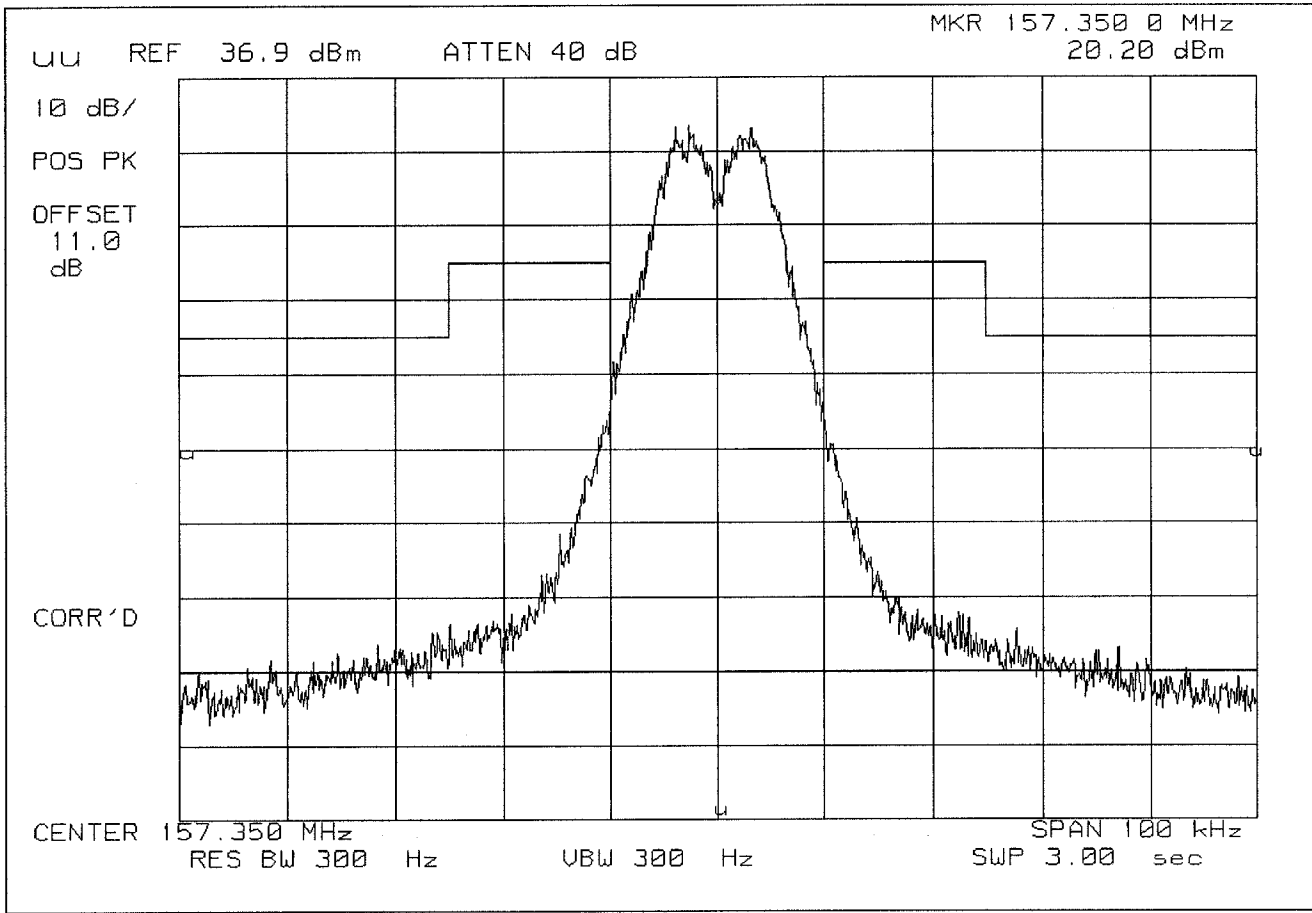
POWER: LOW
MODULATION: SCRAMBLED 1800 HZ INPUT / 500 HZ OUTPUT
MASK: B, VHF/UHF 25kHz, w/LPF



© 2000 BY N. FLOR ASSOCIATES, INC. ALL RIGHTS RESERVED

SPECTRUM ANALYZER PRESENTATION
ICOM, IC-M1V
2000-FEB-17, 15:13, THR

POWER: HIGH
MODULATION: SCRAMBLED 500 HZ INPUT / 1800 HZ OUTPUT
MASK: B, VHF/UHF 25kHz, w/LPF



© 2000 BY N. FLOW ASSOCIATES, INC. ALL RIGHTS RESERVED

SPECTRUM ANALYZER PRESENTATION
ICOM, IC-M1V
2000-FEB-17, 15:17, THR

POWER: HIGH
MODULATION: SCRAMBLED 1800 HZ INPUT / 500 HZ OUTPUT
MASK: B, VHF/UHF 25kHz, w/LPF

