



Date: Jan. 07, 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T-800-824 MHz  
Tx Freq.: 800 MHz, RF Output at antenna: 1 Watts  
Modulation: RF In at level of -20.53 dBm @ 800 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.3 kHz

REF LEVEL  
-1.8 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKH 806.0015 MHz  
-11.79 dBm  
-20.53 dBm ATN  
-32.32 dBm

RF IN SIGNAL FITTED IN MASK



CENTER 806.0015 MHz  
#IF BW 300 Hz  
AVG BW 300 Hz  
SPAN 150.0 kHz  
SWP 5.00 sec

PLOT #27



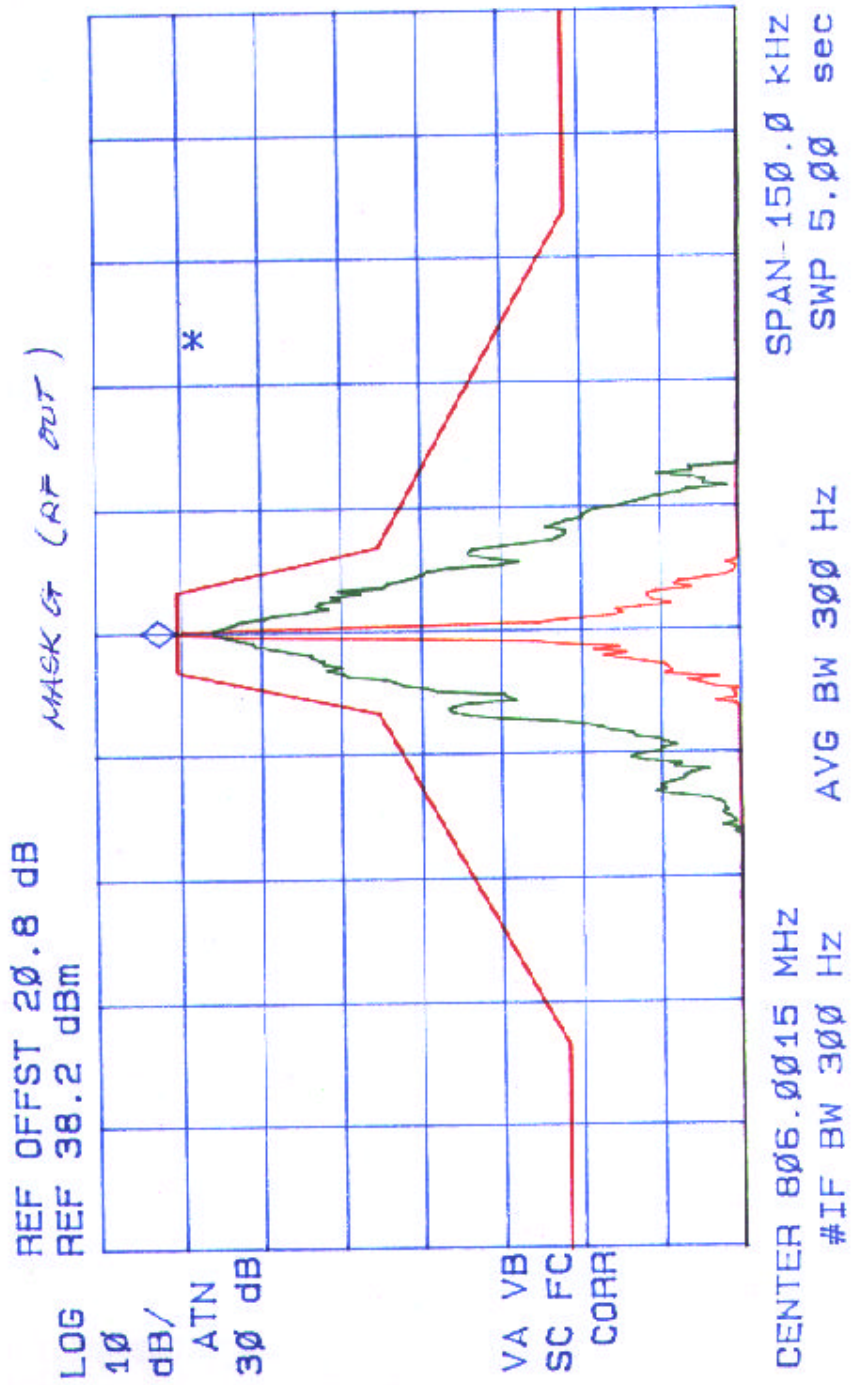
Date: Jan. 02, 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806 - 824 MHz  
Tx Freq.: 806 MHz, RF Output at antenna: 0.89 Watts  
Modulation: RF In at level of -34 dBm @ 806 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.3 kHz

hnp

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 806.0015 MHz  
28.23 dBm

# PLOT #28





Date: Jan. 22, 2000  
Tested by: Hung Trinh

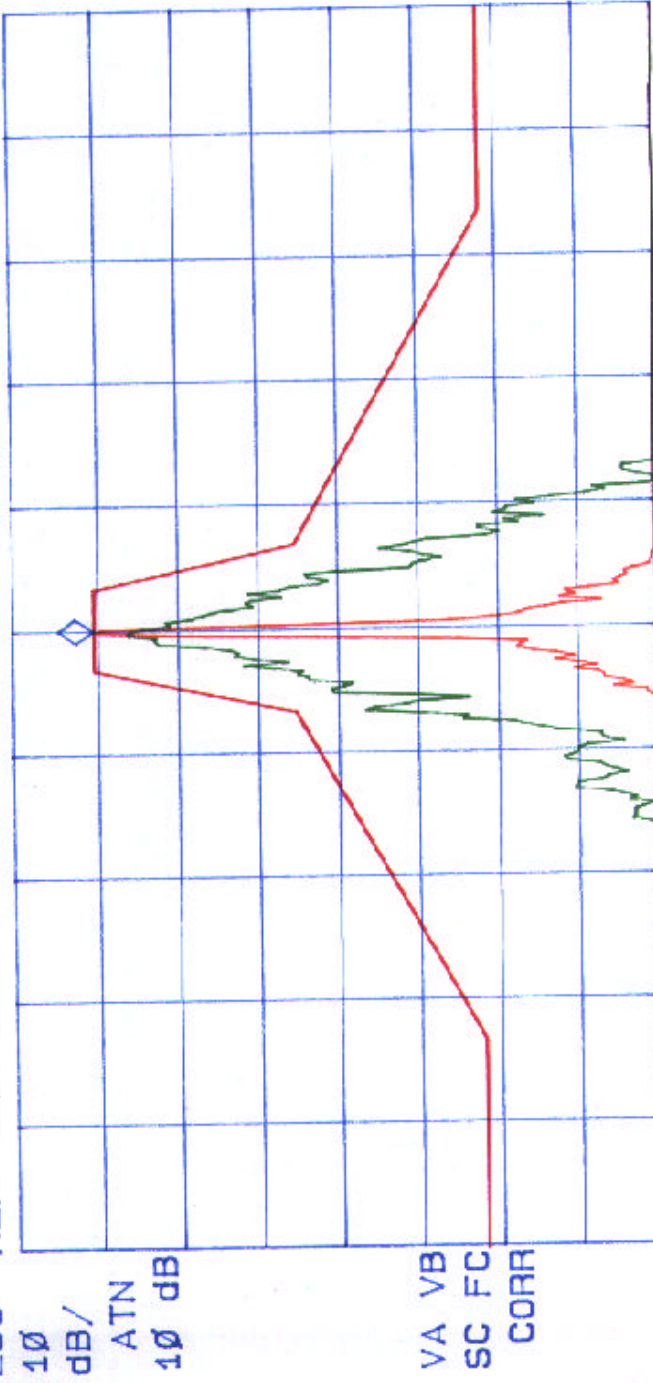
**KAVAL TELECOM INC.**  
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 806-884 MHz  
Tx Freq: 815 MHz, RF Output at antenna: 10 Watts  
Modulation: RF In at level of -11.79 dBm @ 815 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.5 kHz

REF LEVEL  
-1.8 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 815.0015 MHz  
-11.79 dBm  
-20.53 dBm ATN  
-32.32 dBm

RF IN SIGNAL FITTED IN MASK G

LOG REF -1.8 dBm



CENTER 815.0015 MHz  
#IF BW 300 Hz  
AVG BW 300 Hz  
SPAN 150.0 KHz  
SWP 5.00 sec



UltraTech  
Engineering Labs Inc.

KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T-800G-824 MHz

Tx Freq.: 815 MHz, RF Output at antenna: 1.0 Watts

Modulation: RF In at level of -34 dBm @ 815 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 8.3 kHz

Date: Jan. 07, 2000  
Tested by: Hung Trinh

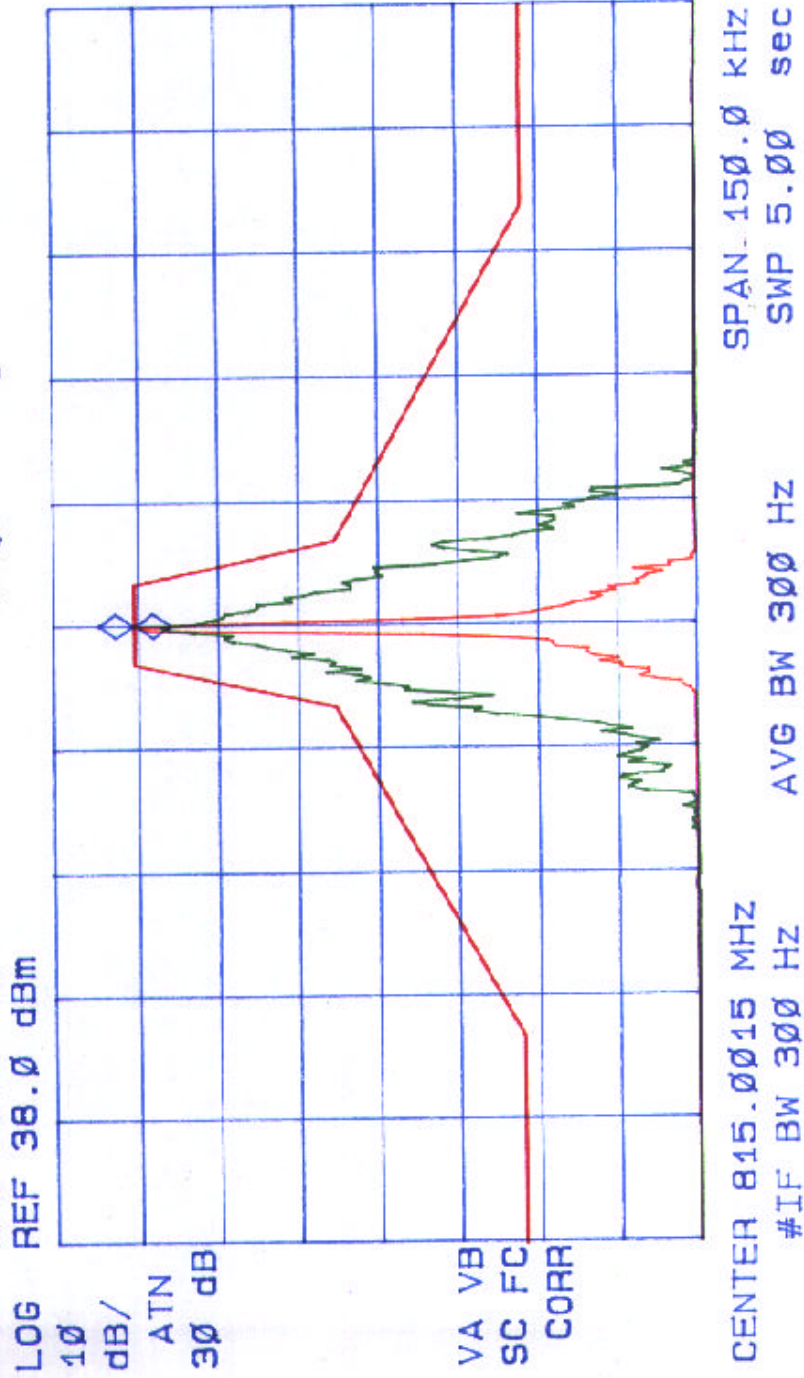
hpa

REF LEVEL  
38.0 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 815.0015 MHz  
27.99 dBm

REF OFFST 20.8 dB MASK G (REF OUT)

REF 38.0 dBm



PLOT #30



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BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 824 - 824 MHz  
Tx Freq.: 824 MHz, RF Output at antenna: 824 Watts  
Modulation: RF In at level of 824 dBm @ 824 MHz, FM Modulated with an  
external 9600 b/s random data, Freq. Dev.: 2.5 kHz

Date: Jan. 02, 2000  
Tested by: Hung Trinh

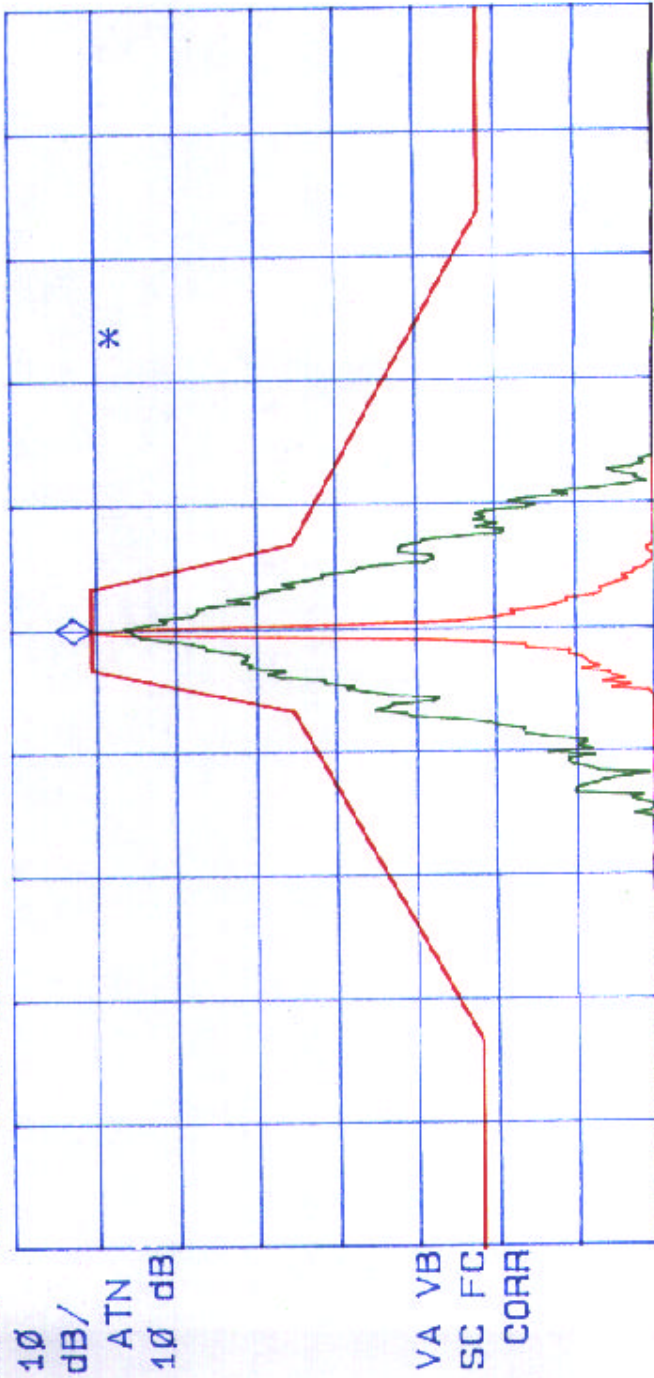
h/p

REF LEVEL  
-1.9 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 824.0015 MHz  
-11.87 dBm  
-20.53 dBm ATN  
-31.40 dBm

RF IN SIGNAL FITTED IN MASK GT

LOG REF -1.9 dBm



CENTER 824.0015 MHz  
#IF BW 300 Hz  
SPAN 150.0 KHz  
SWP 5.00 sec  
AVG BW 300 Hz

PLOT #31



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### KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 800-824 MHz  
Tx Freq.: 824 MHz, RF Output at antenna: 0.5 Watts  
Modulation: RF In at level of -34 dBm @ 824 MHz, FM Modulated with an  
external 9600 b/s random data, Freq. Dev.: 2.5 kHz

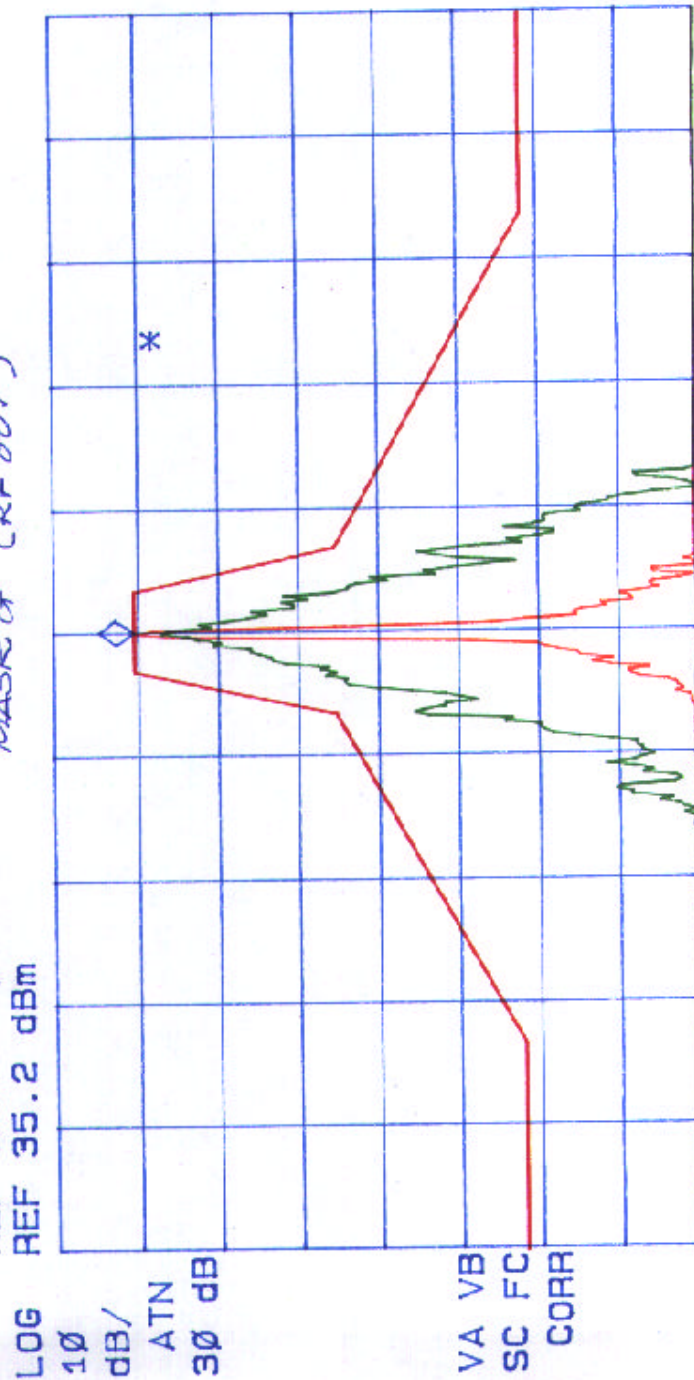
Date: Jan. 22, 2000  
Tested by: Hung Trinh

REF LEVEL  
35.2 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 824.0015 MHz  
25.18 dBm

REF OFFST 20.8 dB  
REF 35.2 dBm

MASK G (RF OUT)



CENTER 824.0015 MHz  
#IF BW 300 Hz  
AVG BW 300 Hz  
SPAN 150.0 KHz  
SWP 5.00 sec

PLOT #32



KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851-809 MHz

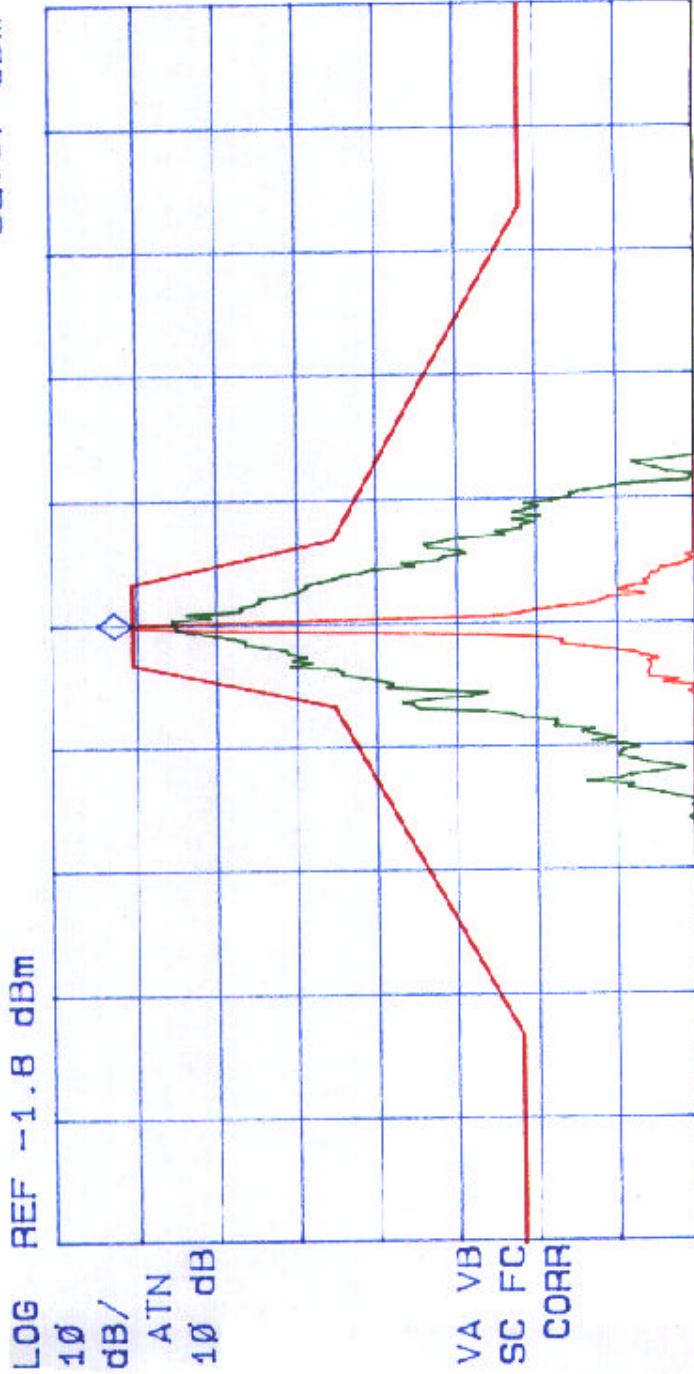
Tx Freq.: 851 MHz, RF Output at antenna: 1 Watts  
Modulation: RF In at level of 32.37 dBm @ 851 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 6.3 kHz

Date: Jan. 02 2000  
Tested by: Hung Trinh

CENTER  
851.0015 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 851.0015 MHz  
-11.84 dBm  
-20.53 dBm ATN  
32.37 dBm

RF IN SIGNAL FITTED IN MASK G



CENTER 851.0015 MHz SPAN 150.0 KHz  
#IF BW 300 Hz AVG BW 300 Hz SWP 5.00 sec

PLOT #33

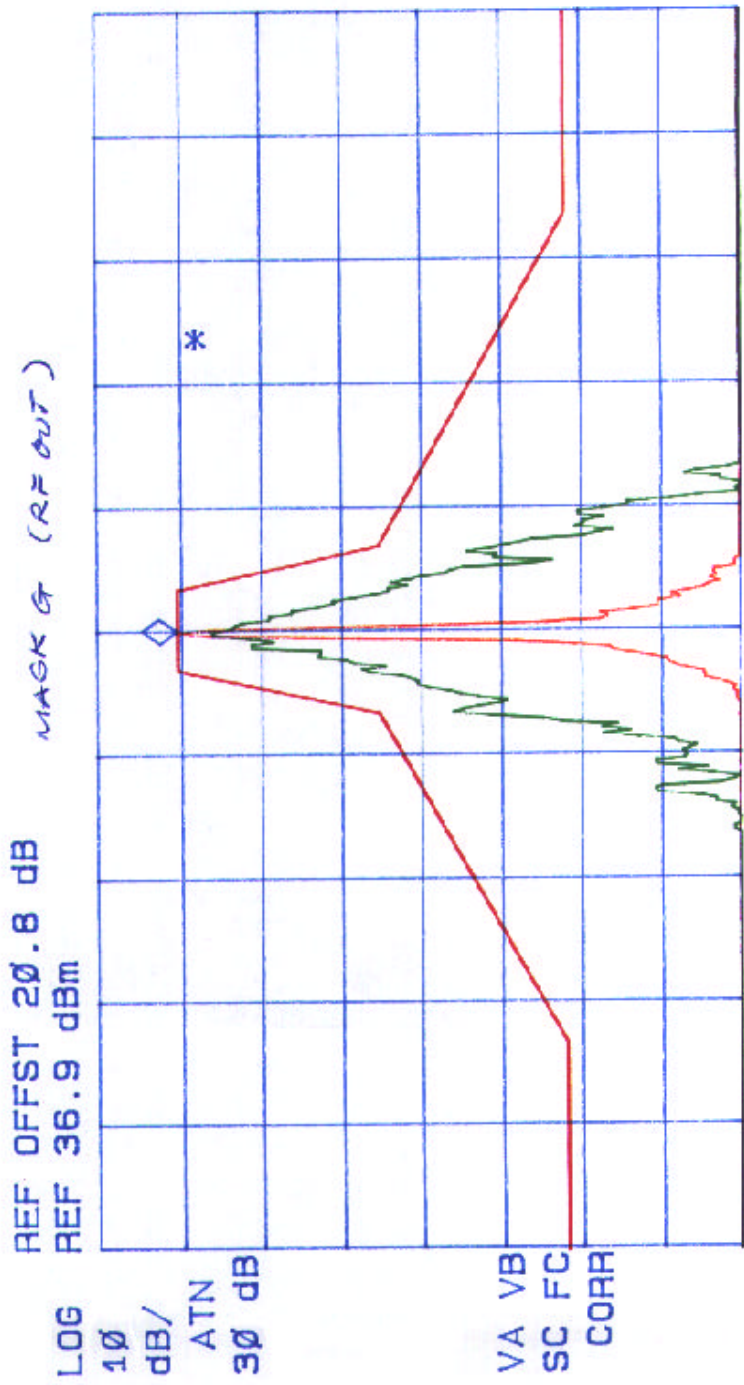


Date: Jan. 10, 2000  
 Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
 BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851 - 889 MHz  
 Tx Freq.: 851 MHz, RF Output at antenna: 0.74 Watts  
 Modulation: RF In at level of -32 dBm @ 851 MHz, FM Modulated with an  
 external 9600 b/s random data, Freq. Dev.: 2.3 kHz

hpo

REF LEVEL 36.9 dBm  
 ACTV DET: PEAK  
 MEAS DET: PEAK QP AVG  
 MKR 851.0011 MHz  
 26.88 dBm



CENTER 851.0011 MHz  
 #IF BW 300 Hz  
 AVG BW 300 Hz  
 SPAN 150.0 kHz  
 SWP 5.00 sec

PLOT #34



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Date: Jan. 02, 2000  
Tested by: Hung Trinh

### KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851 - 869 MHz

Tx Freq.: 851 MHz, RF Output at antenna: 1 Watts

Modulation: RF In at level of 0 dBm @ 860 MHz, F/M Modulated with an external 9600 b/s random data, Freq. Dev.: 2.3 kHz

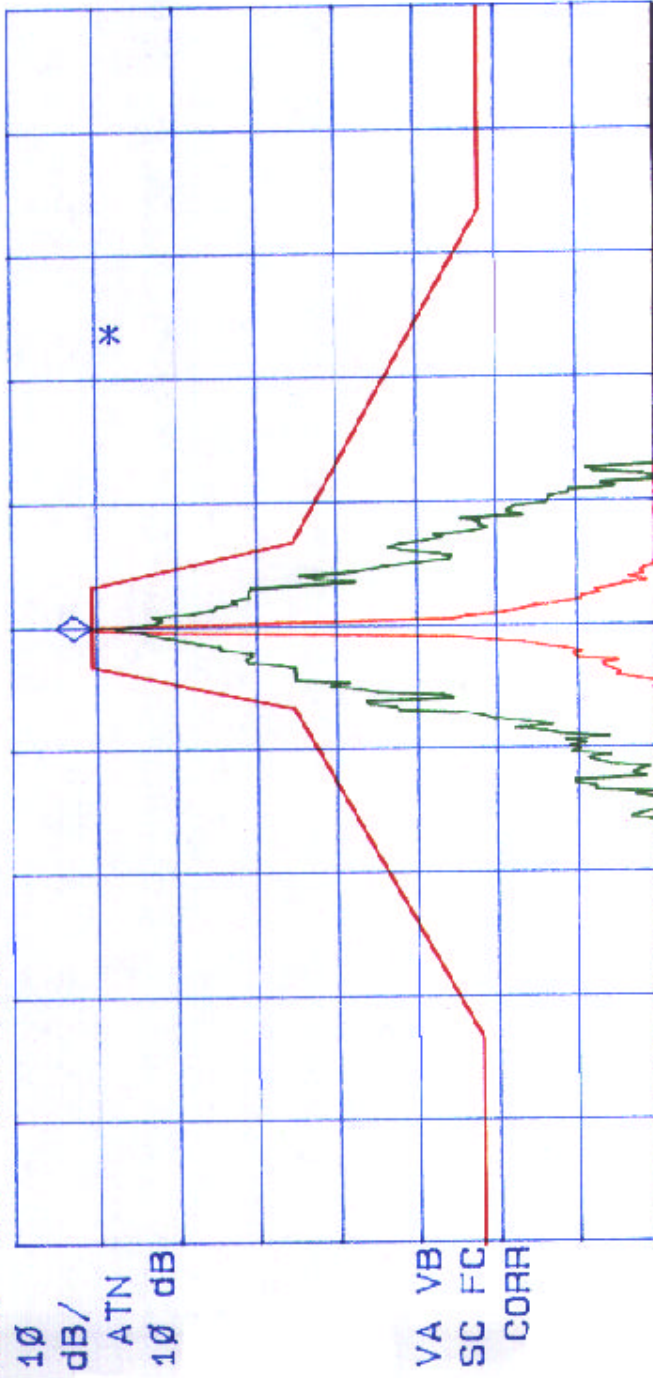
hp

REF LEVEL  
-1.9 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 860.0015 MHz  
-11.83 dBm  
-20.53 dBm ATN  
-32.36 dBm

RF IN SIGNAL FITTED IN MASK &

LOG REF -1.9 dBm



CENTER 860.0015 MHz  
#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 KHz  
SWP 5.00 sec

## PLOT #35



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KAVAL TELECOM INC.

BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851 - 869 MHz

Tx Freq.: 860 MHz, RF Output at antenna: 0.82 Watts

Modulation: RF In at level of -34dBm @ 860 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.3 kHz

Date: Jan. 10, 2000  
Tested by: Hung Trinh

REF LEVEL  
38.3 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 860.0000 MHz  
28.33 dBm

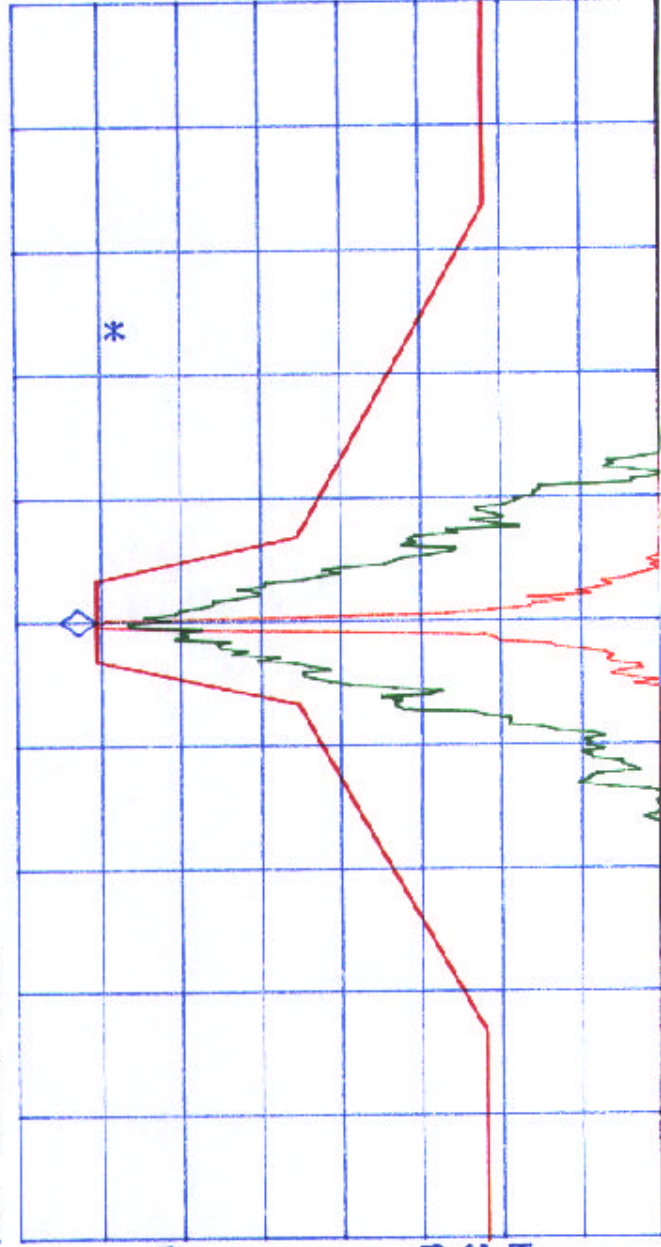
REF OFFST 20.8 dB  
REF 38.3 dBm

MASK G (RF OUT)

LOG  
10  
dB/  
ATN

30 dB

VA VB  
SC FC  
CORR



CENTER 860.0000 MHz  
#IF BW 300 Hz

AVG BW 300 Hz

SPAN 150.0 KHz  
SWP 5.00 sec

PLOT #36



Date: Jan. 02, 2000  
Tested by: Hung Trinh

**KAVAL TELECOM INC.**  
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 851 - 869 MHz  
Tx Freq.: 851 MHz, RF Output at antenna: 1 Watts  
Modulation: RF In at level of 32 dBm @ 869 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.5 kHz

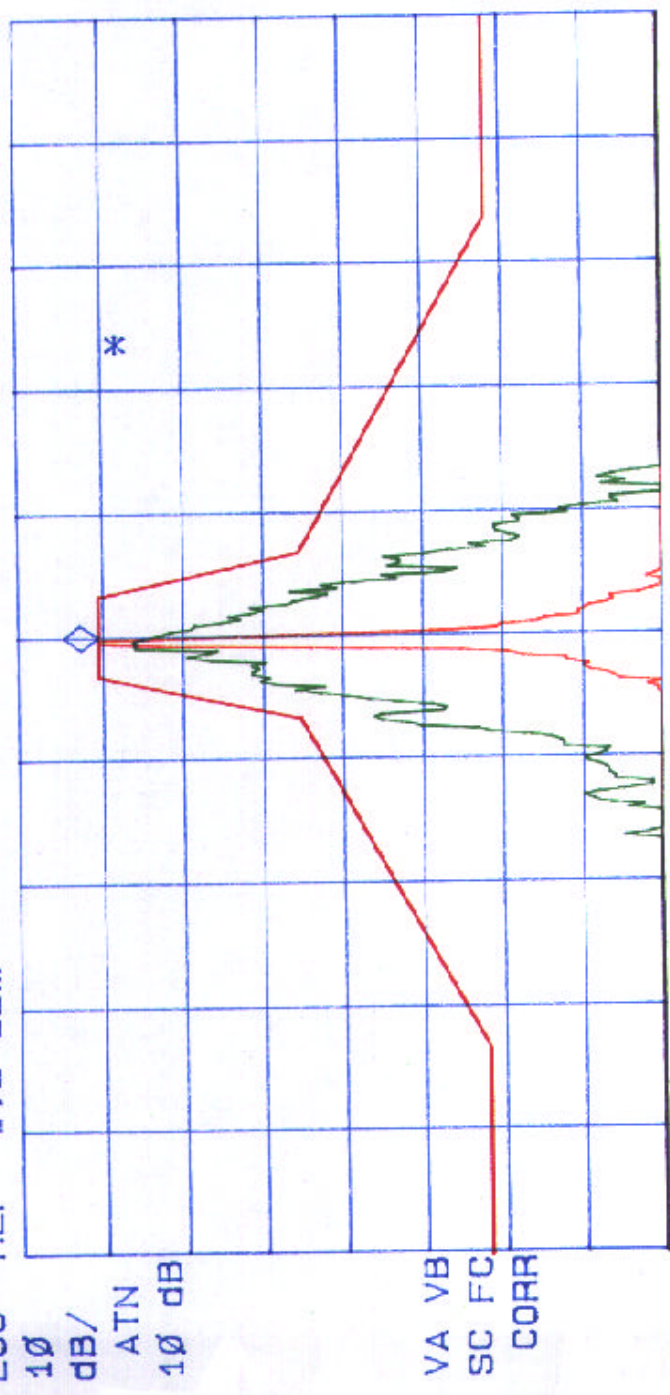
hp

CENTER  
869.0019 MHz

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 869.0019 MHz  
-11.94 dBm  
-20.53 dBm ATN  
32.47 dBm

RF IN SIGNAL FITTED IN MASK G

LOG REF -1.9 dBm



CENTER 869.0019 MHz  
#IF BW 300 Hz

AVG BW 300 Hz

SPAN-150.0 kHz  
SWP 5.00 sec

PLOT #37



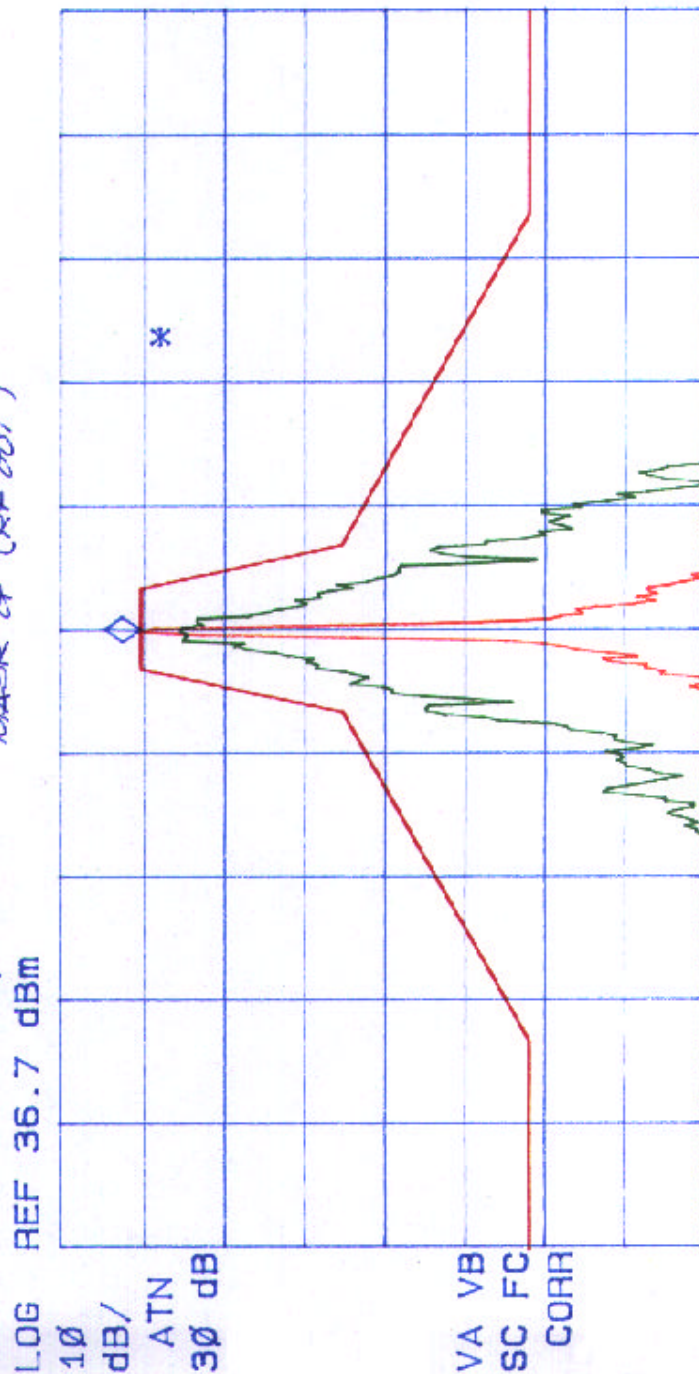
Date: Jan. 10, 2000  
Tested by: Hung Trinh

KAVAL TELECOM INC.  
BI-DIRECTIONAL AMPLIFIERS, MODEL: BDA 1250-T- 857 - 869 MHz  
Tx Freq.: 869 MHz, RF Output at antenna: 0.52 Watts  
Modulation: RF In at level of -34 dBm @ 869 MHz, FM Modulated with an external 9600 b/s random data, Freq. Dev.: 2.5 kHz

REF LEVEL  
36.7 dBm

ACTV DET: PEAK  
MEAS DET: PEAK QP AVG  
MKR 868.9996 MHz  
26.72 dBm

REF OFFST 20.8 dB MASK @ (RF OUT)  
REF 36.7 dBm



CENTER 868.9996 MHz SPAN 150.0 KHz  
#IF BW 300 Hz AVG BW 300 Hz SWP 5.00 sec