

MEASUREMENT PROCEDURE

*Bandwidth, Power Output, Spurious Emissions, and Power Spectral Density

- 1, Set up. See Figure 1.
- 2, Set the DUT in a Test mode with the Personal computer.
- 3, Set the Mode "Tx Cont" and "COUNT DOWN 0-15".(cotinuous simplex transmission)
- 4, Set the RF POWER OUT "High" (maximum power setting)
- 5, Set the RF CHANNEL "1" , "10" and "20" (lowend, mid, highend)
- 6, The measurement is made at each channels except for a Spurious Emissions.
The Spurious Emissions are measured at ch "1" and "20"

*Processing Gain

- 1, Set up. See Figure 2.
- 2, Set the receiver unit (Base station) in a Test mode with the personal computer.
- 3, Set the following state.
 - a. RF Channel "1" (it must be same as the transmitter's channel)
 - b. RF Power Level Select "Low"
 - c. Mode & Data Select Rx Slave, and DATA SOURCE is "TRANSMIT ALL 0's"
- 4, Set the transmitter unit (Hand set) in a Test mode with the personal computer.
- 5, Set the following state.
 - a. RF Channel "1" (it must be same as the receiver's s channel)
 - b. RF Power Level Select "Low"
 - c. Mode & Data Select Tx Master, and DATA SOURCE is "TRANSMIT ALL 0's"
- 6, The system starts a full-duplex TDD link mode.
- 7, Measure the output power of transmitting unit at the input of the receiving unit. (S)
- 8, BER is measured every 10 sec.(in a test mode)
- 9, Step a signal generator in 50KHz increments across the pathband of the system.
and record the signal generator level required to produce the recommended Bit Error Rate(BER=10⁻³). This level is the jamming level.
- 10, Calculate the Processing Gain.

15.247(a)

BANDWIDTH

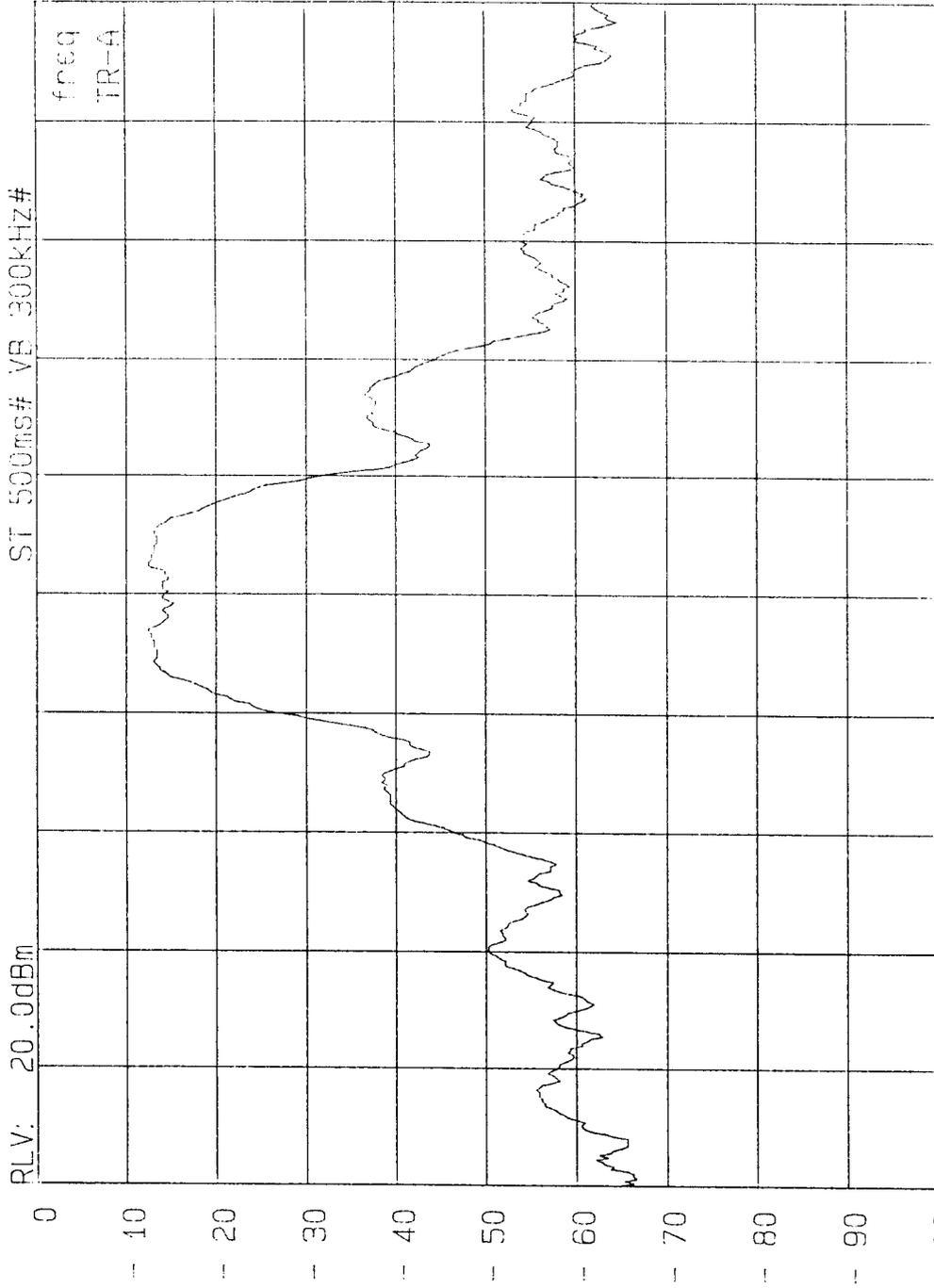
The Model 43-727 (XX) is a direct sequence spread spectrum intentional radiator. The minimum 6dB bandwidth measured on the channels tested on the handset was 1500 KHZ on Channel 1.

The minimum 6 dB bandwidth measured on the channels tested on the base was 1500 KHZ on Channel 1.

PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH01 FCC15.247a2

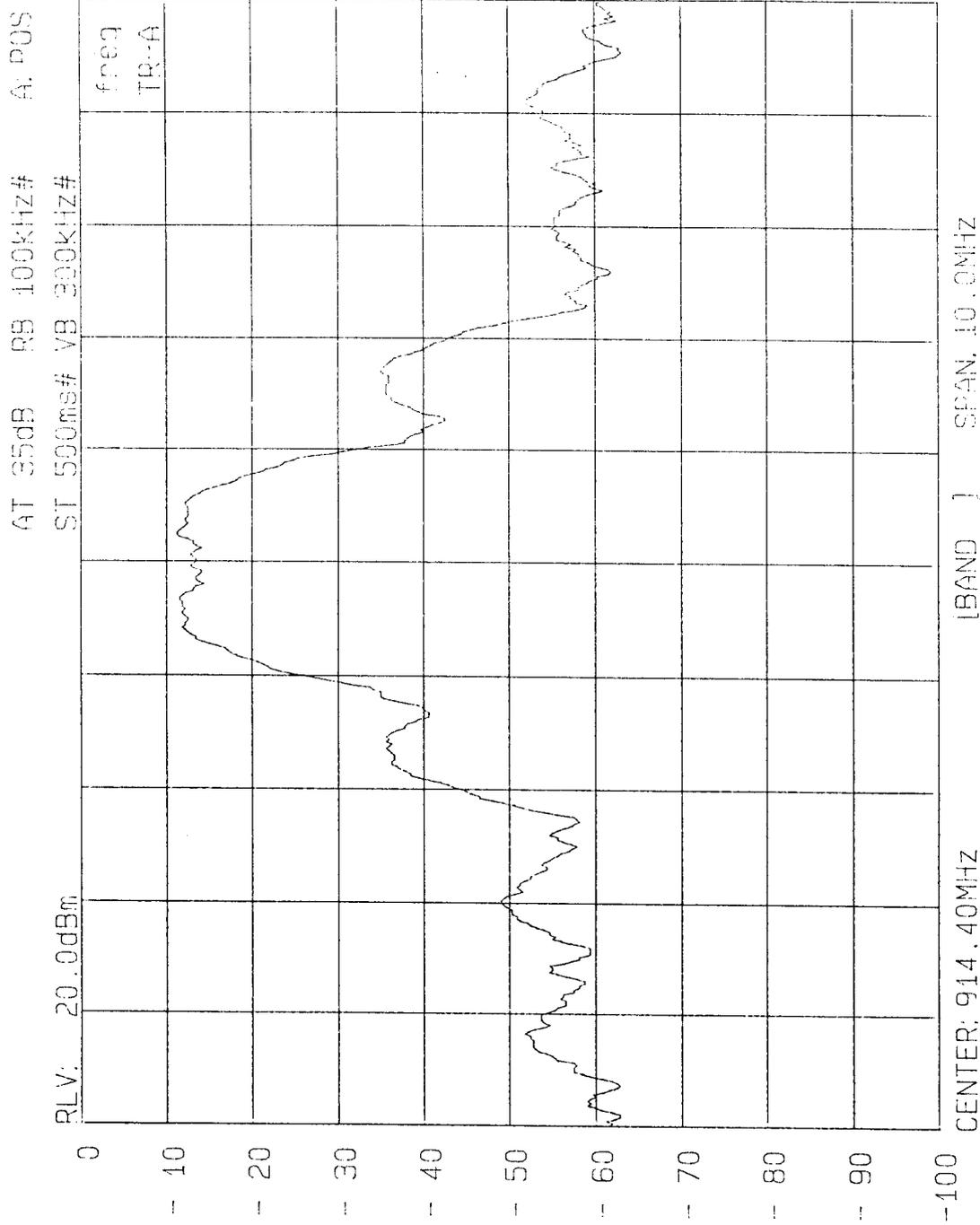
AT 35dB RB 100KHZ# A: POS



CENTER: 904.20MHZ [BAND] SPAN: 10.0MHZ

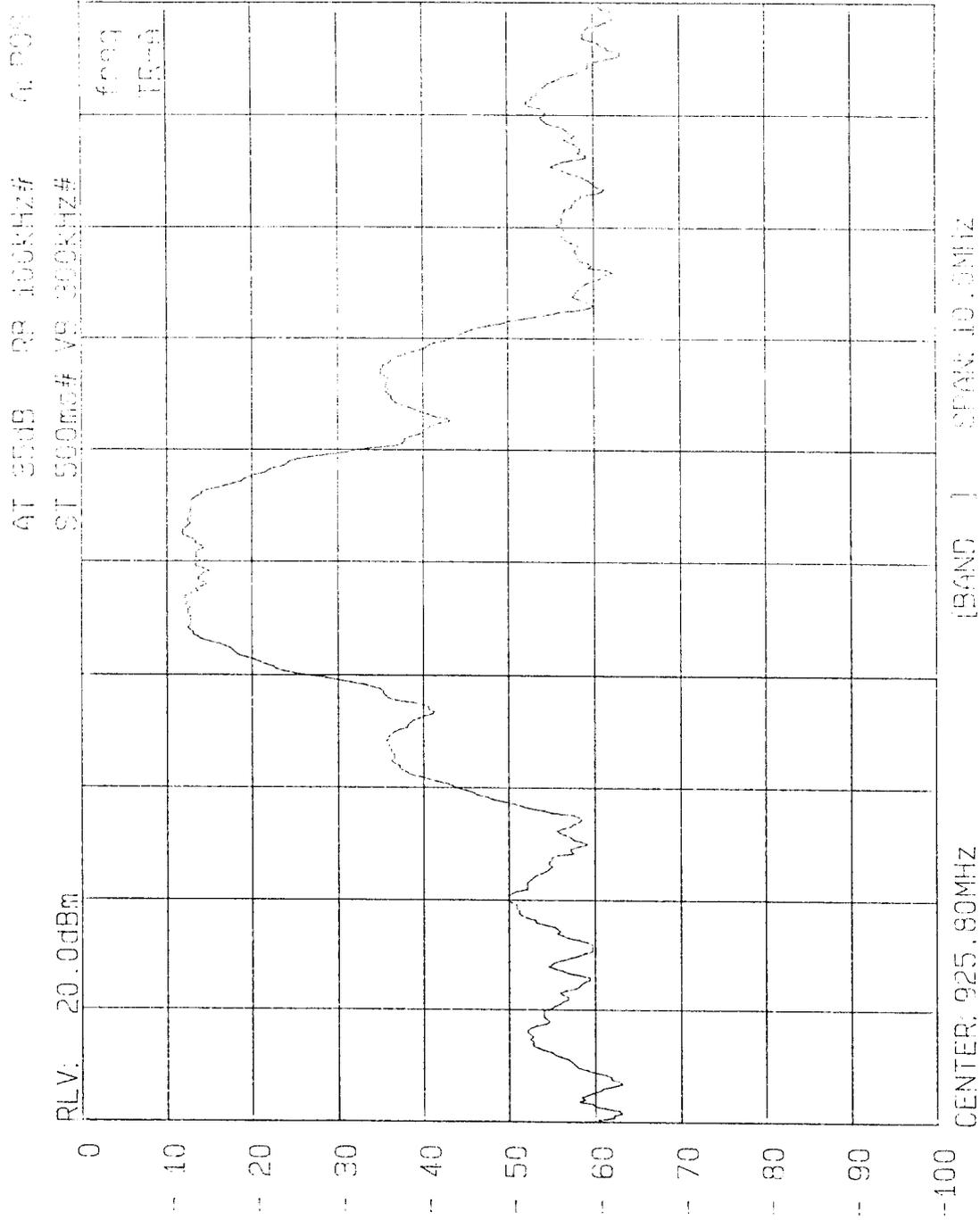
PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH10 FCC15.247a2



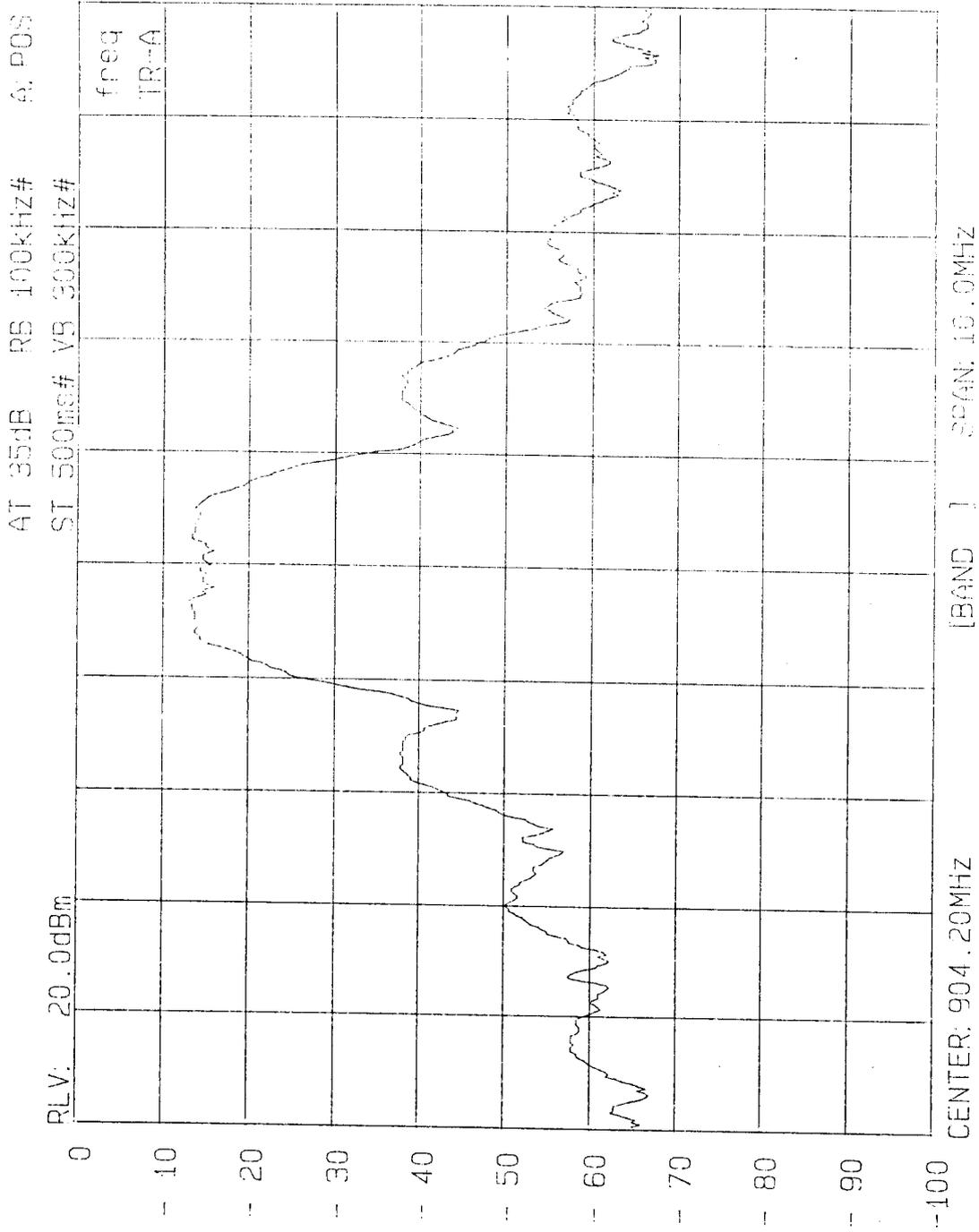
PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH20 FCC15.247a2



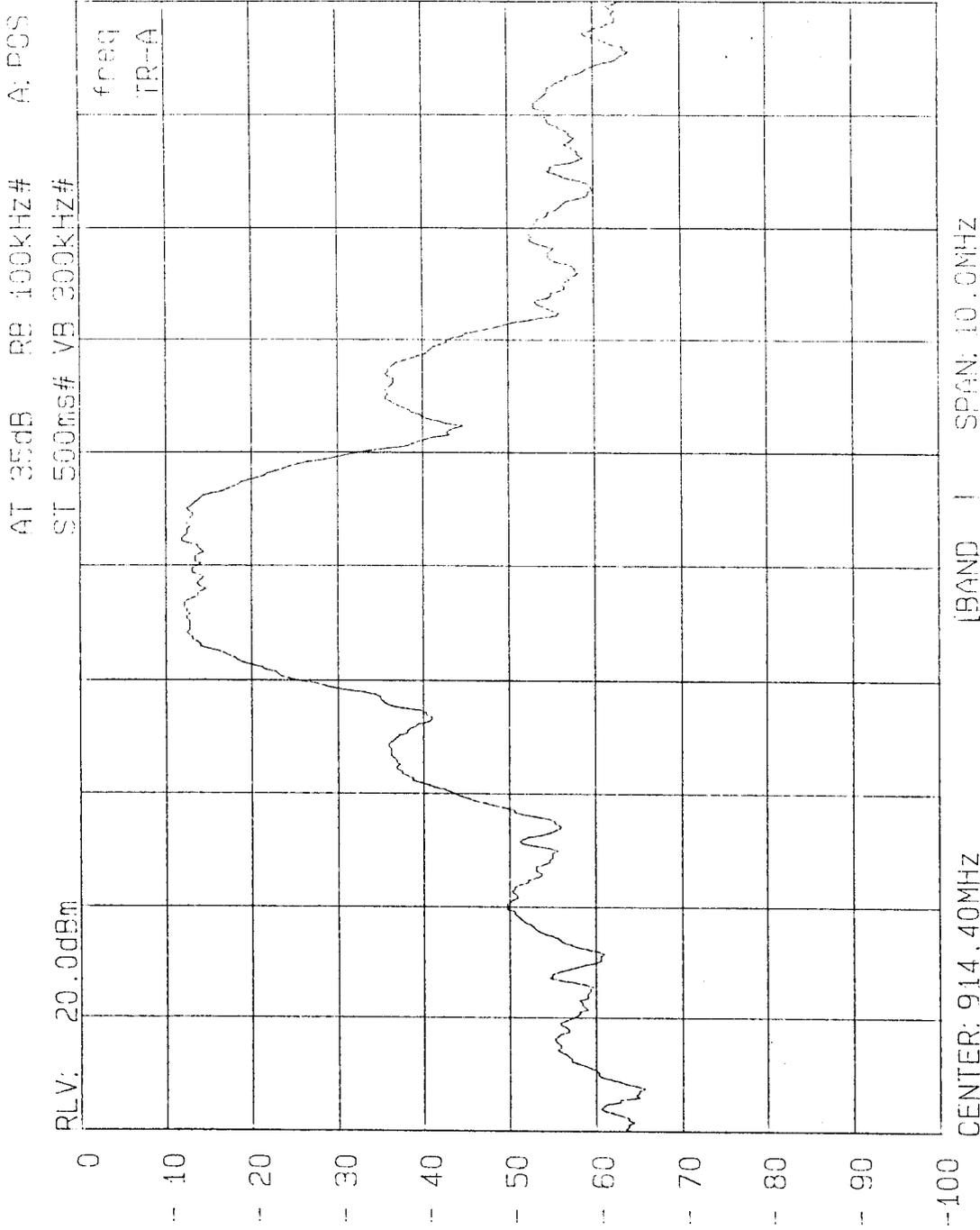
PART 15.247(a)(2) BAND WIDTH

43-727 HANDSET CH01 FCC15.24762



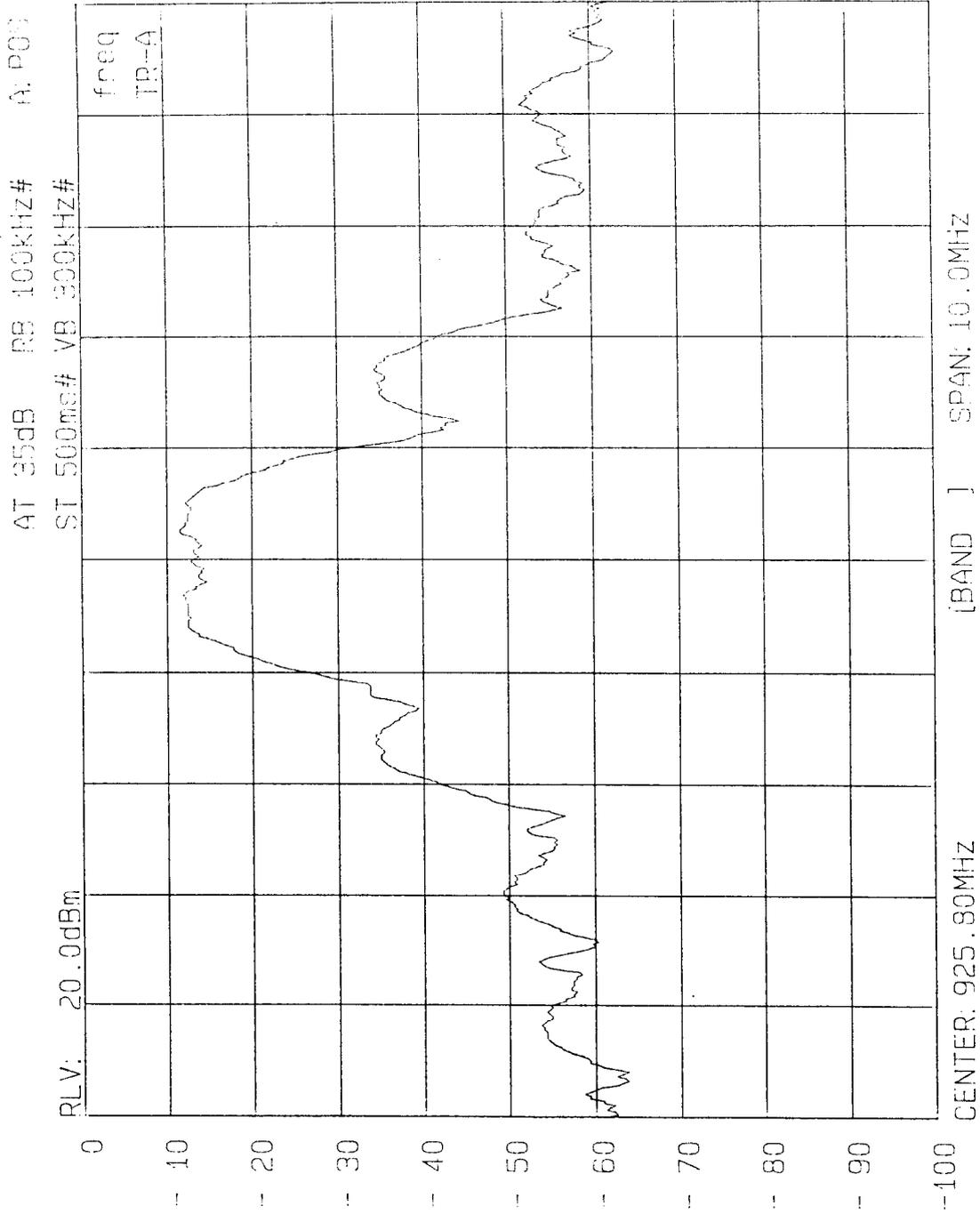
PART 15.247(a)(2) BAND WIDTH

43-727 HANDSET CH10 FCC15.247a2



PART 15.247(a)(2) BAND WIDTH

43-727 HANDSET CH20 FCC15.247a2



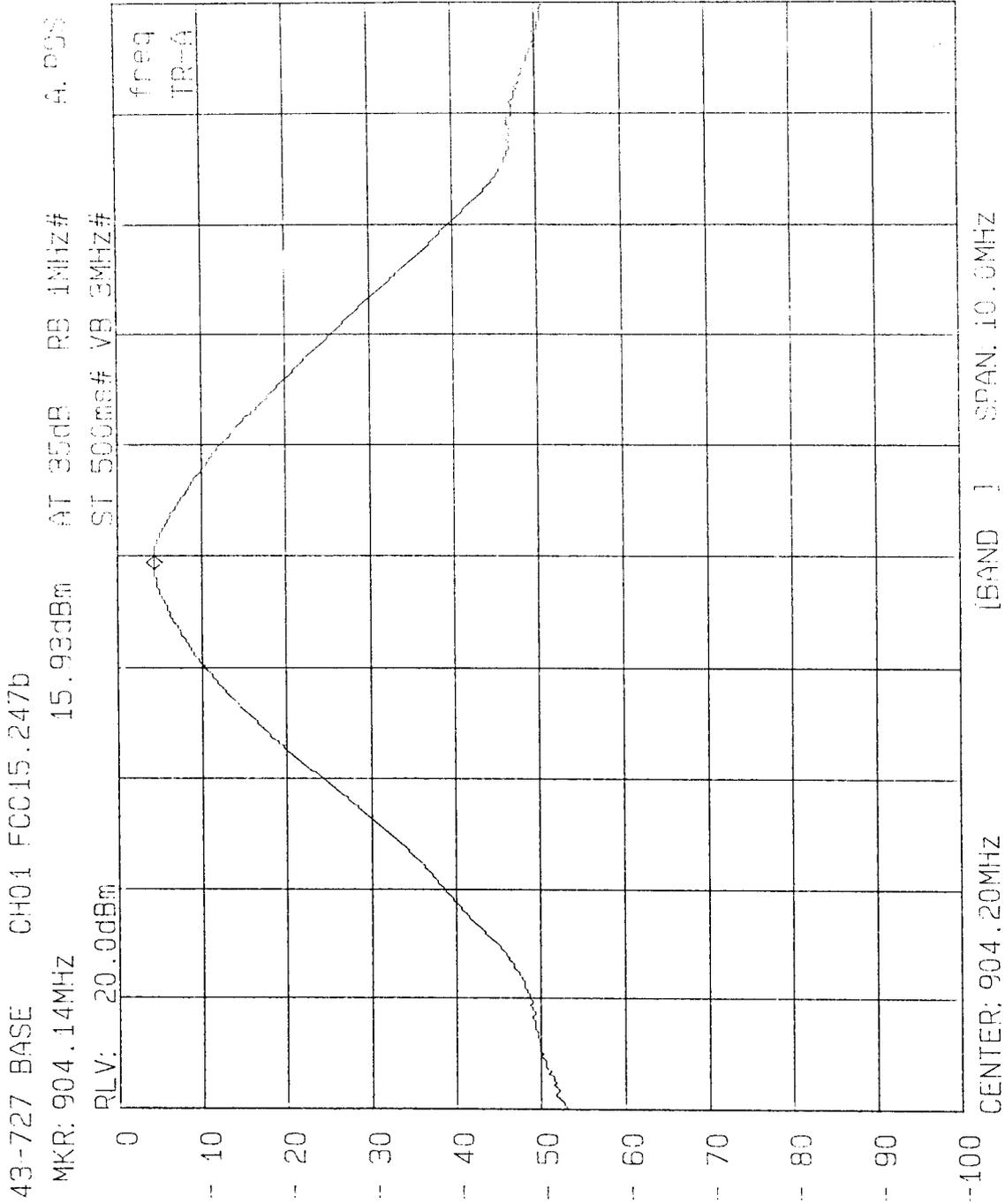
15.247 (b)

POWER OUTPUT

The maximum peak output power was 16.7 dBm on Channel 10 from the base unit and 16.6 dBm on Channel 20 from the handset.

The limit is +30 dBm.

PART 15.247(b) POWER OUTPUT



PART 15.247(b) POWER OUTPUT

43-727 BASE CH10 FCC15.247b

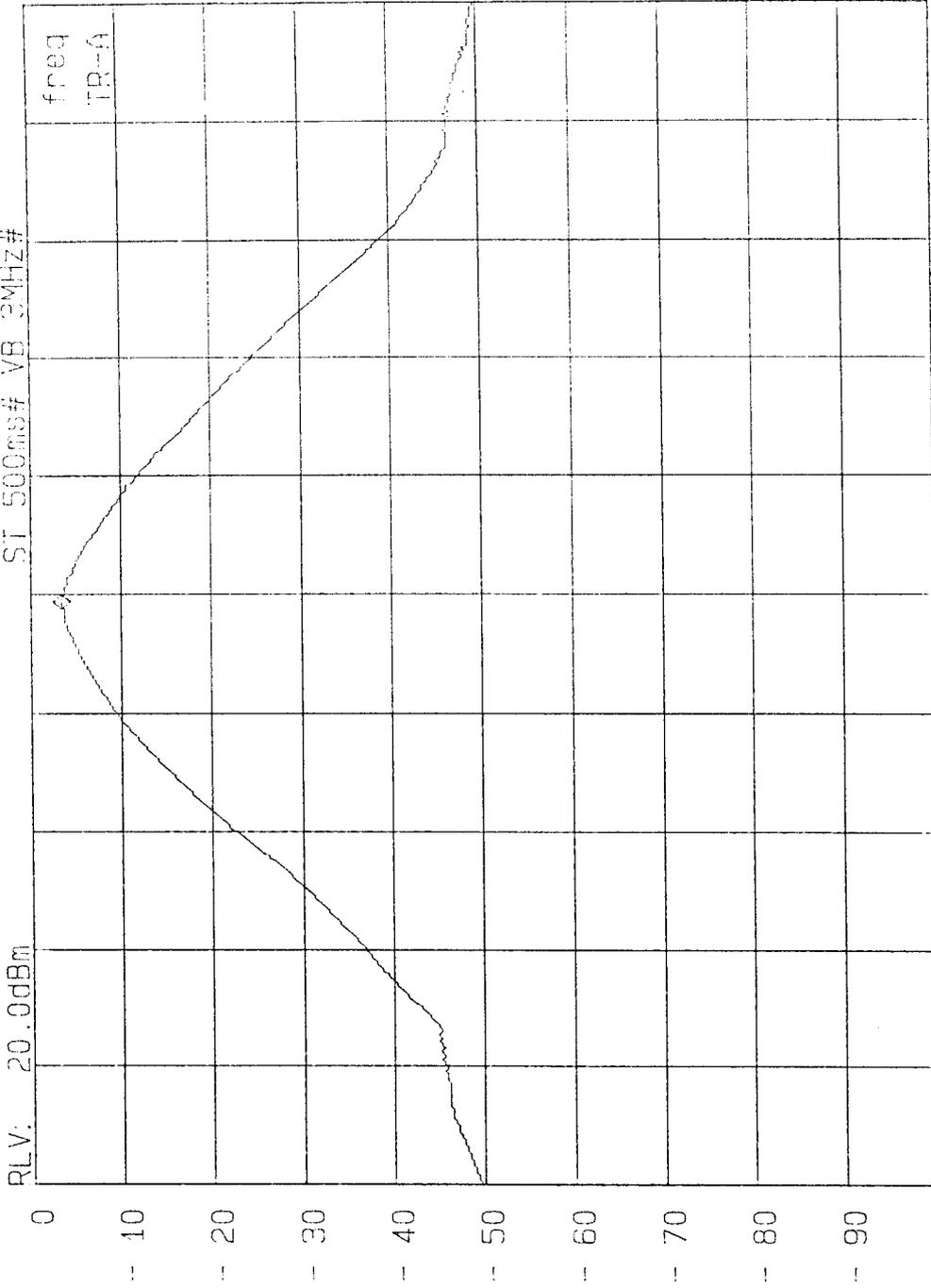
MKR: 914.34MHZ

16.65dBm

AT 35dB

RB 1MHZ#

A: P05



CENTER: 914.40MHZ [BAND] SPAN: 10.0MHZ

PART 15.247(b) POWER OUTPUT

43-727 BASE CH20 FCC15.247b

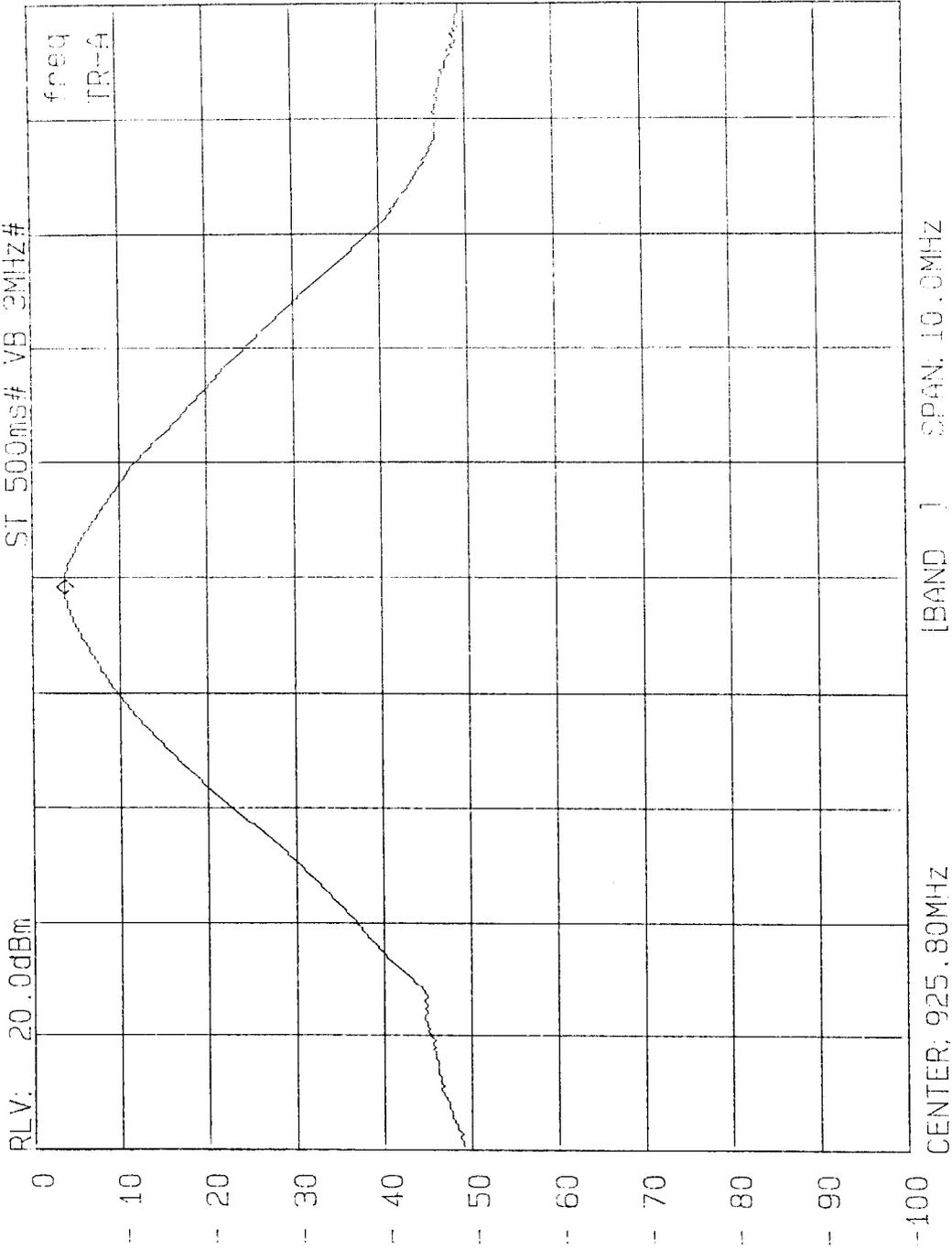
MKR: 925.72MHz

16.49dBm

AT 35dB

RB 1MHz#

A. PJS



PART 15.247(b) POWER OUTPUT

43-727 HANDSET CH01 FCC15.247b

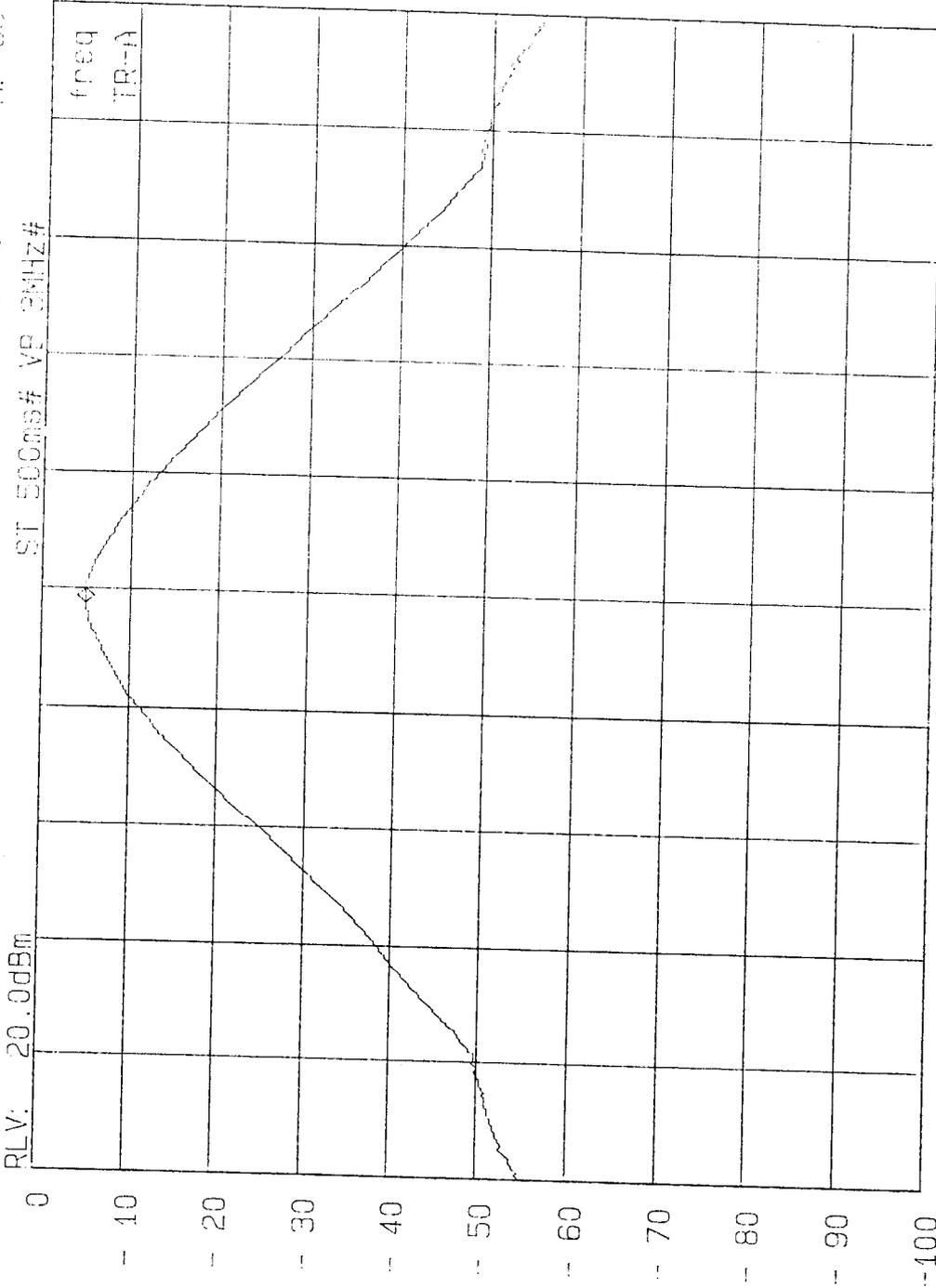
MKR: 904.14MHZ

15.26dBm

AT 25dB

RS 1MHZ#

A. PCS



CENTER: 904.20MHZ

[BAND]

SPAN: 10.0MHZ

PART 15.247(b) POWER OUTPUT

43-727 HANDSET CH10 FCC15.247b

MKR: 914.36MHZ

16.48dBm

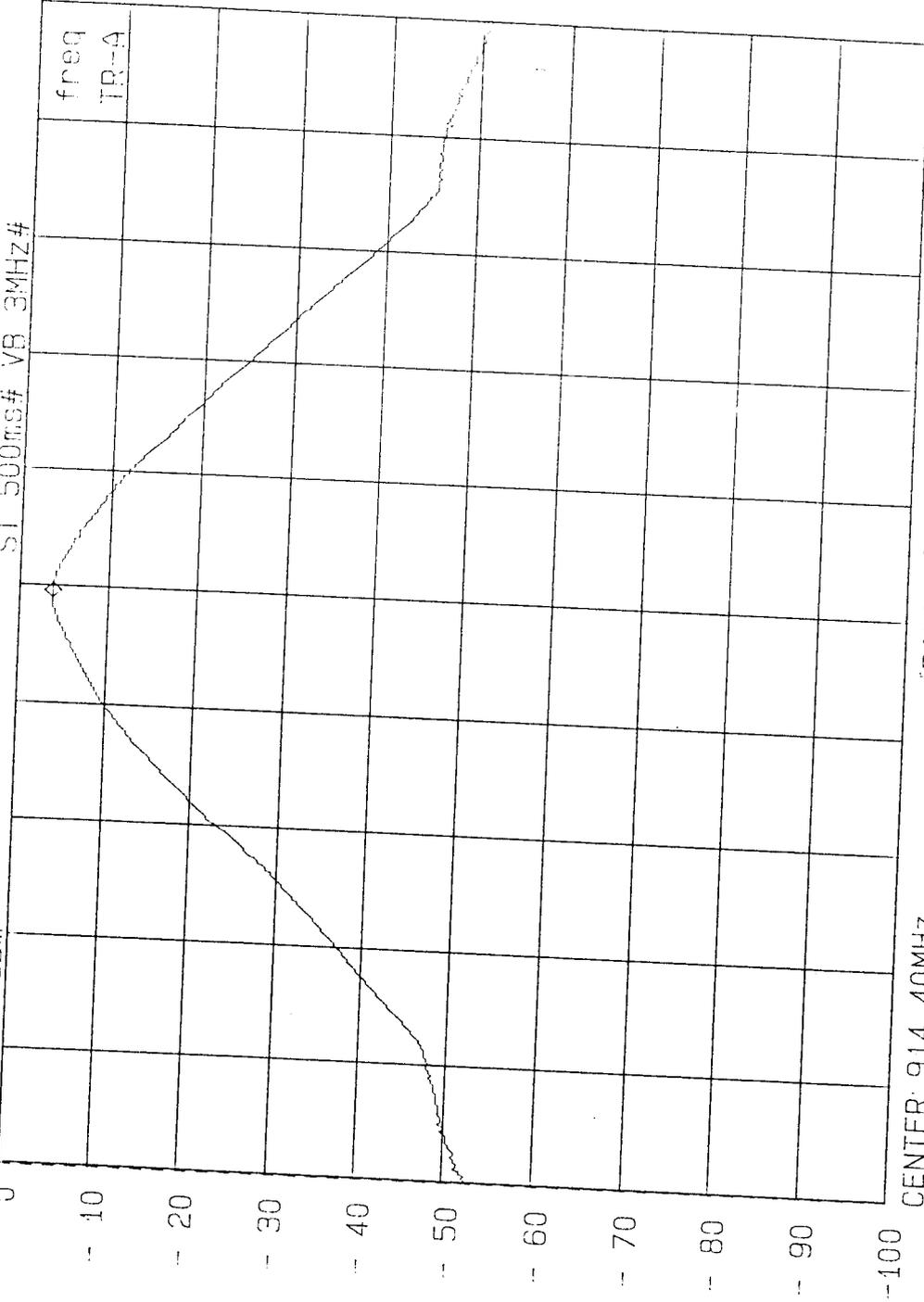
AT 35dB

RB 1MHZ#

A. PCS

RLV: 20.0dBm

ST 500ms# VB 3MHZ#



PART 15.247(b) POWER OUTPUT

43-727 HANDSET CH20 FCC15.247b

MKR: 925.74MHZ

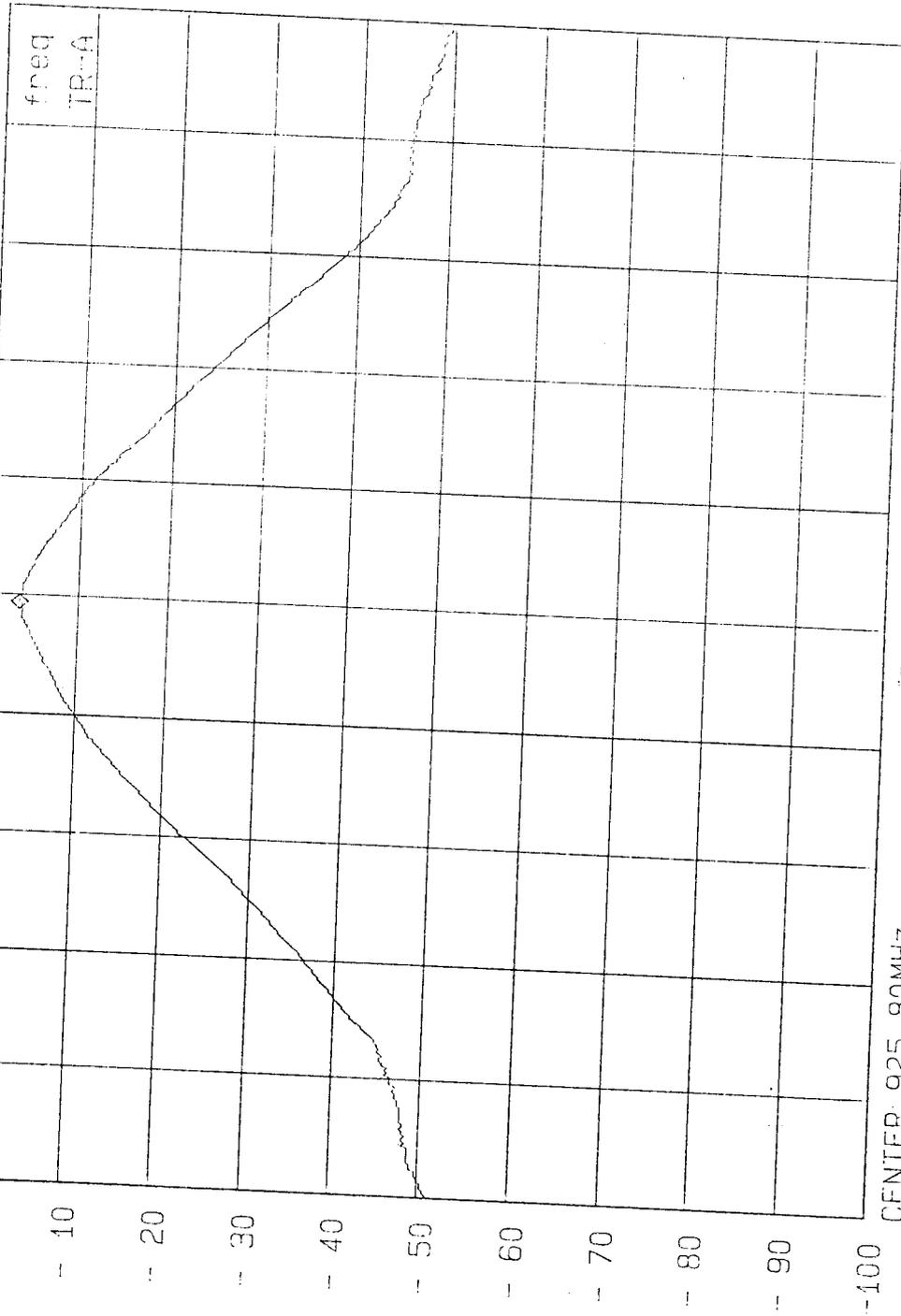
16.60dBm

AT 35dB RB 1MHZ#

A. POS

RLV: 20.0dBm

ST 500ms# VB 3MHZ#



[BAND] SPAN: 10.0MHZ

CENTER: 925.80MHZ