

# 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<sup>-3</sup>). 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.

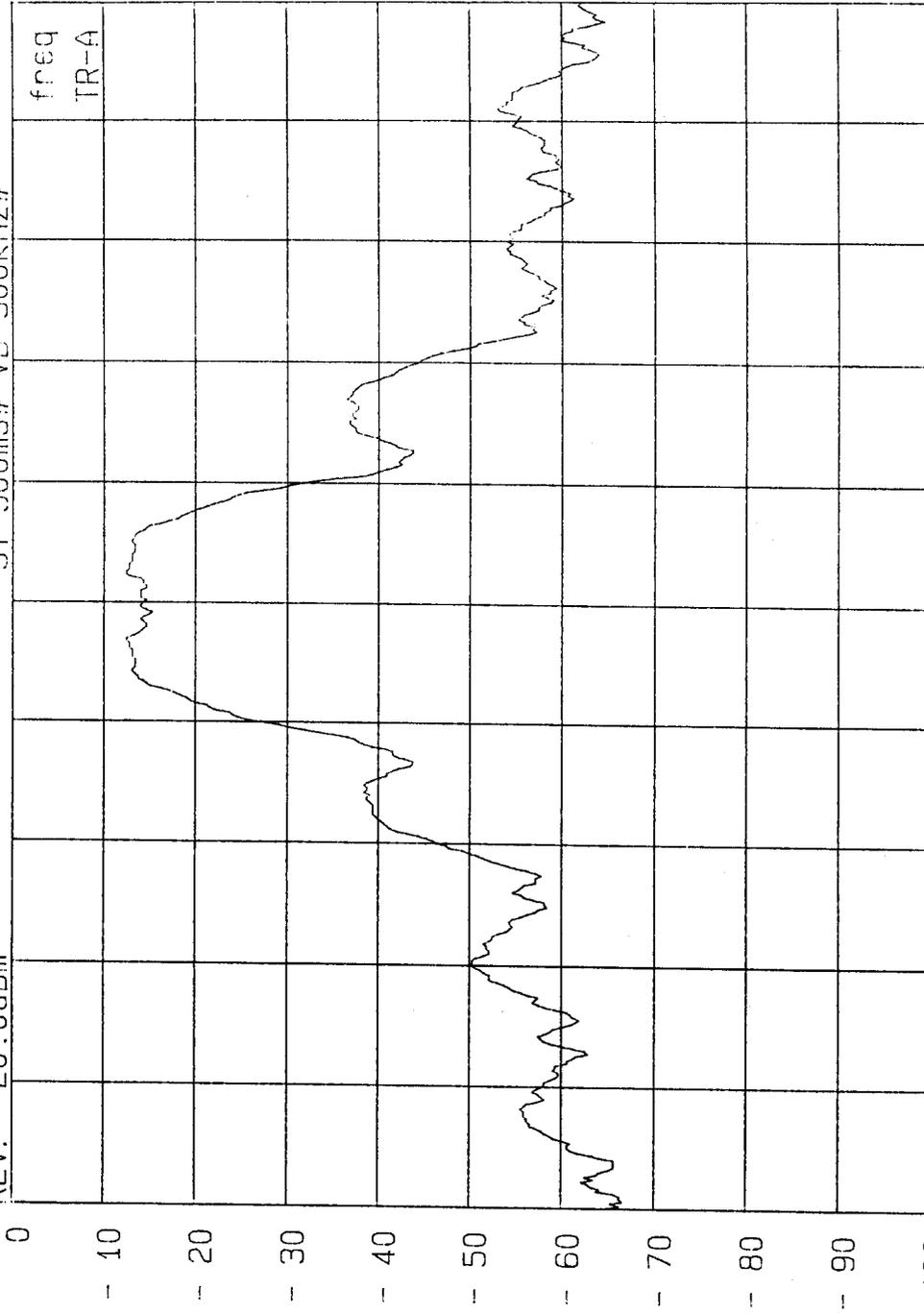
PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH01 FCC15.247a2

AT 35dB RB 100kHz# A: POS

ST 500ms# VB 300kHz#

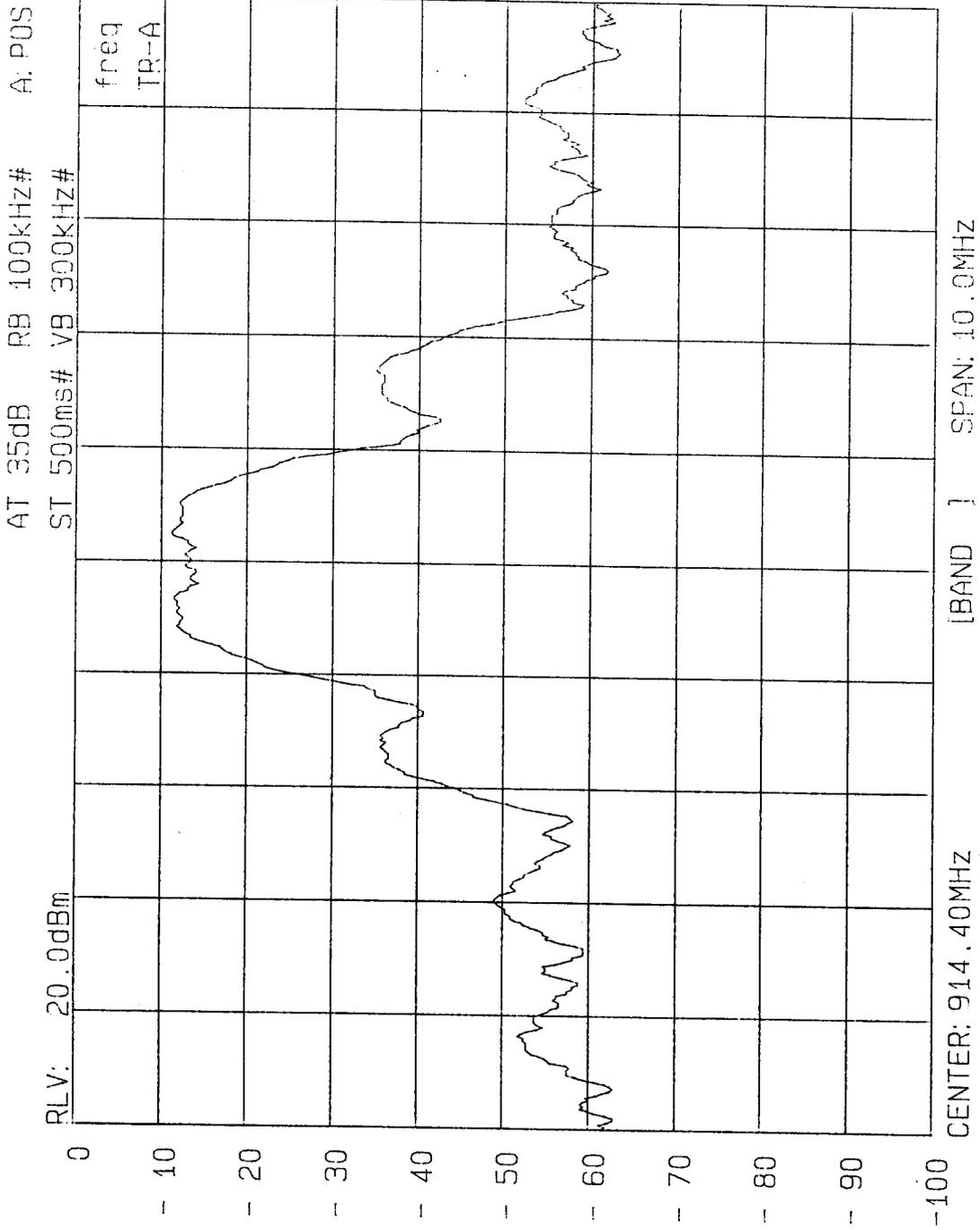
RLV: 20.0dBm



CENTER: 904.20MHZ [BAND J] SPAN: 10.0MHZ

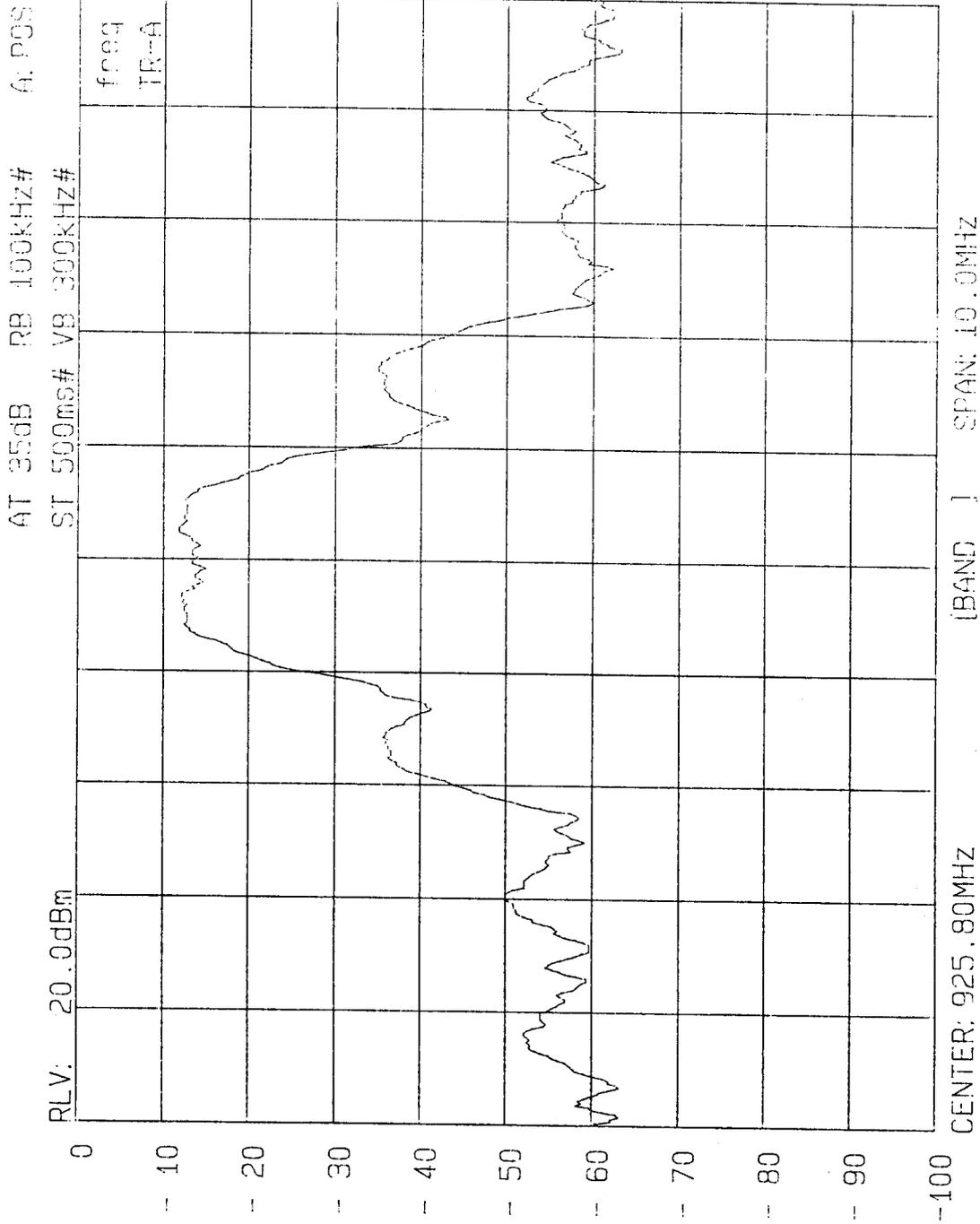
PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH10 FCC15.247a2



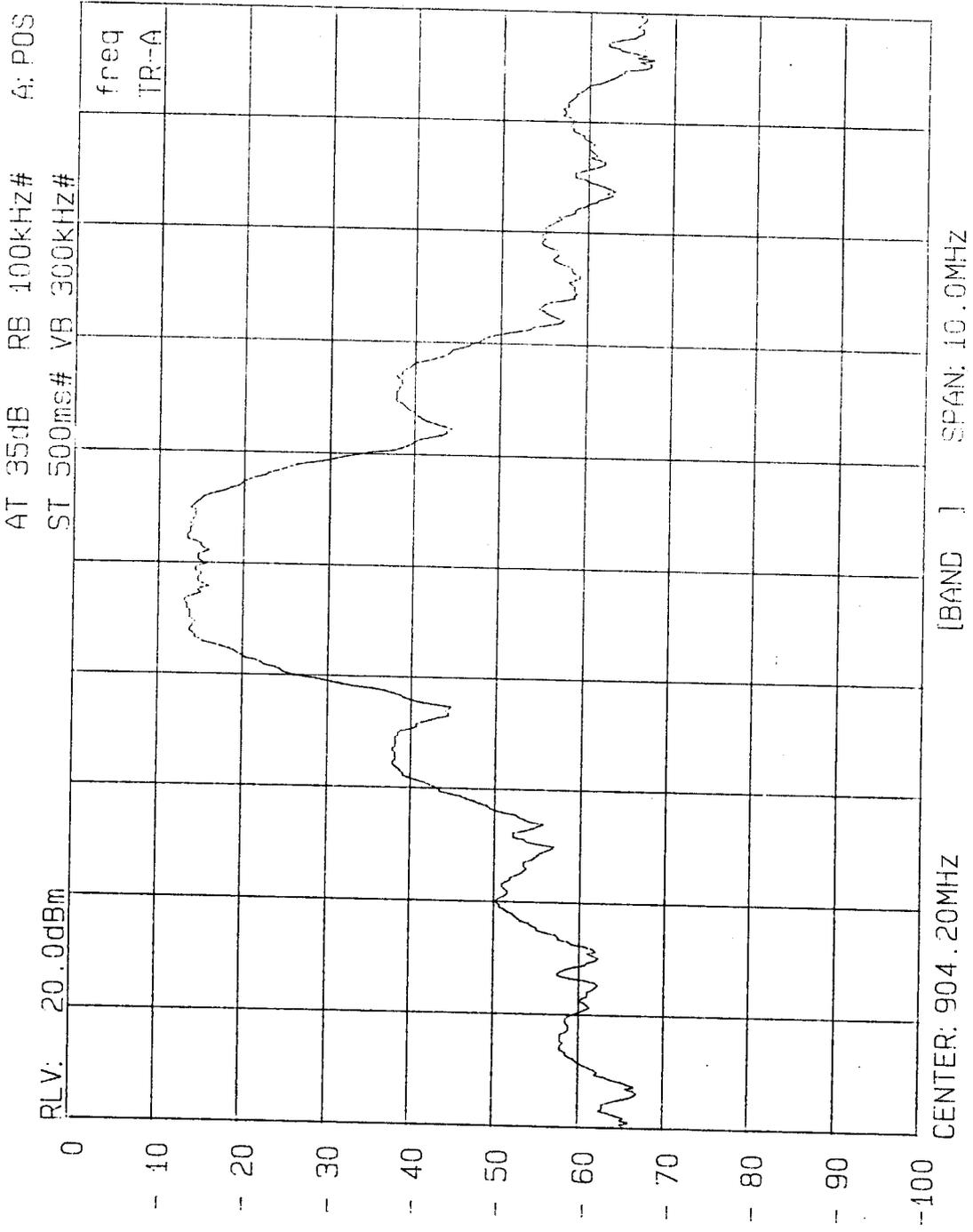
PART 15.247(a)(2) BAND WIDTH

43-727 BASE CH20 FCC15.247a2



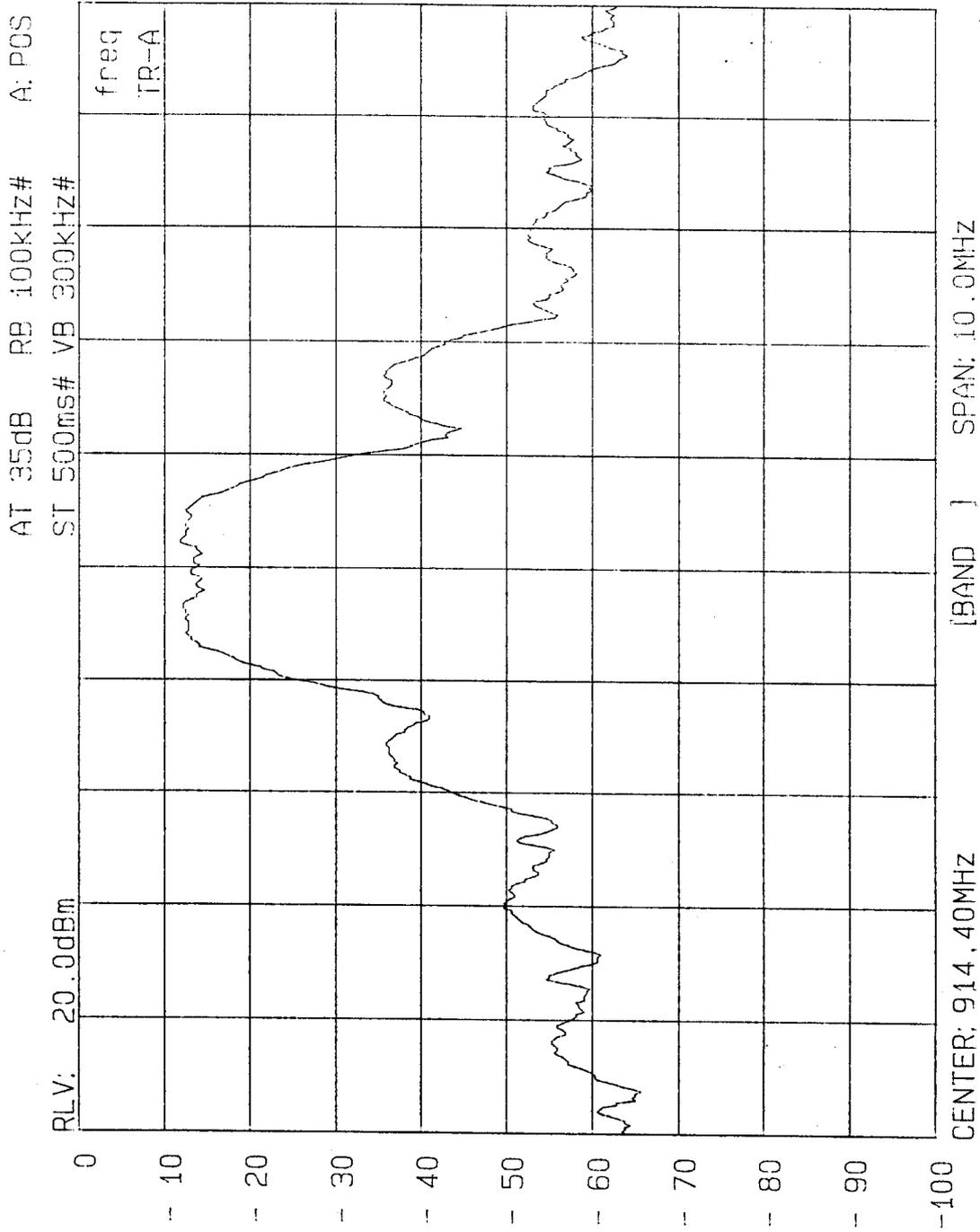
PART 15.247(a)(2) BAND WIDTH

43-727 HANDSET CH01 FCC15.247a2



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

