

15.247 (d)

POWER DENSITY

The transmitted power density averaged over any one second interval from the base unit was +3 dBm on Channel 20. The transmitted power density from the handset was +3 dBm on Channel 20.

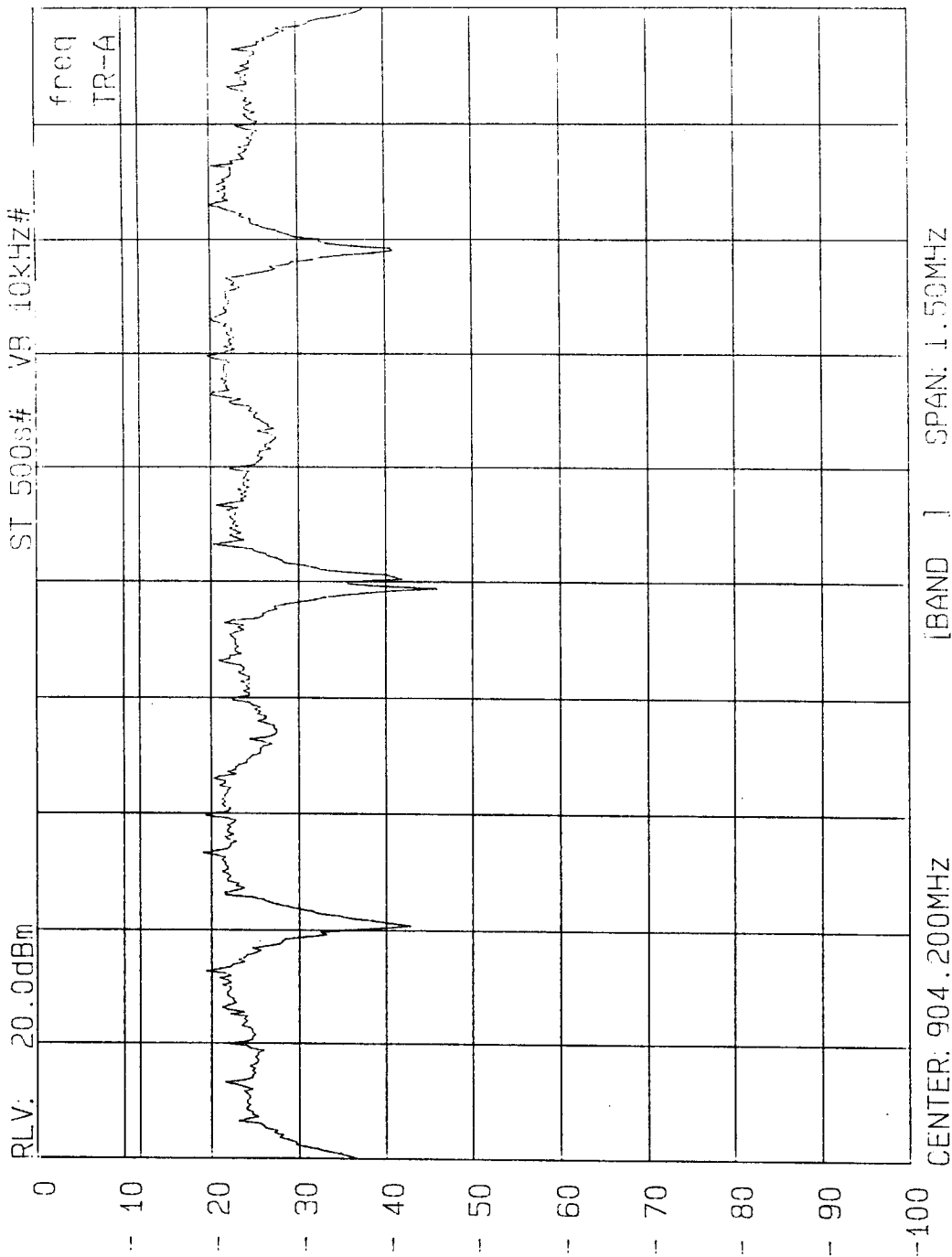
The limit is +8 dBm.

PART 15.247(d) POWER SPECTRAL DENSITY

43-727 BASE CH01 FCC15.247d

AT 35dB RB 3KHz# A. POS

ST 500s# VB 10KHz#



PART 15.247(d) POWER SPECTRAL DENSITY

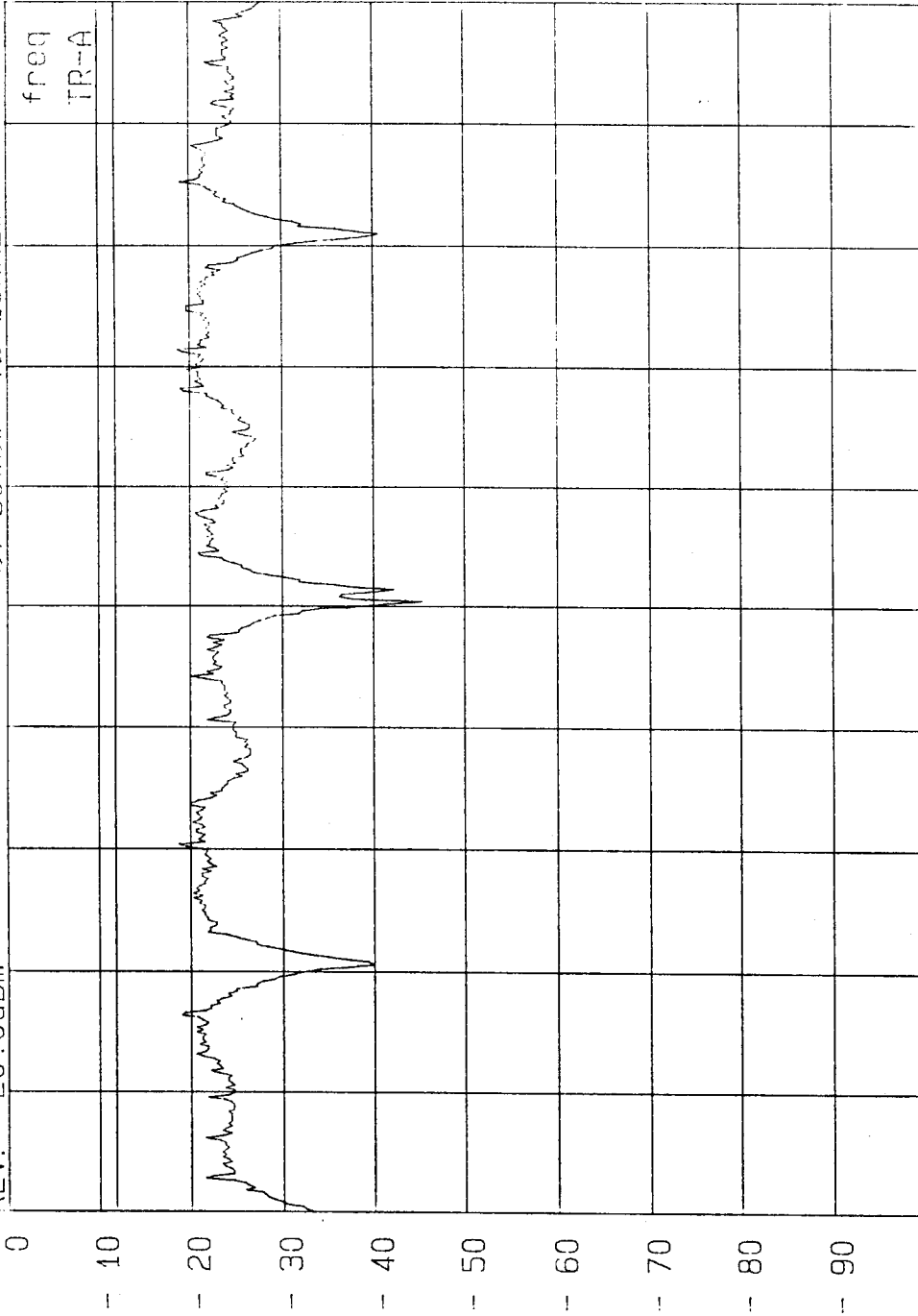
43-727 BASE CH10 FCC15.247d

A: POS

AT 35dB RB 3KHz#

ST 500s# VB 10KHz#

RLV: 20.0dBm



CENTER: 914.400MHZ [BAND] SPAN: 1.50MHZ

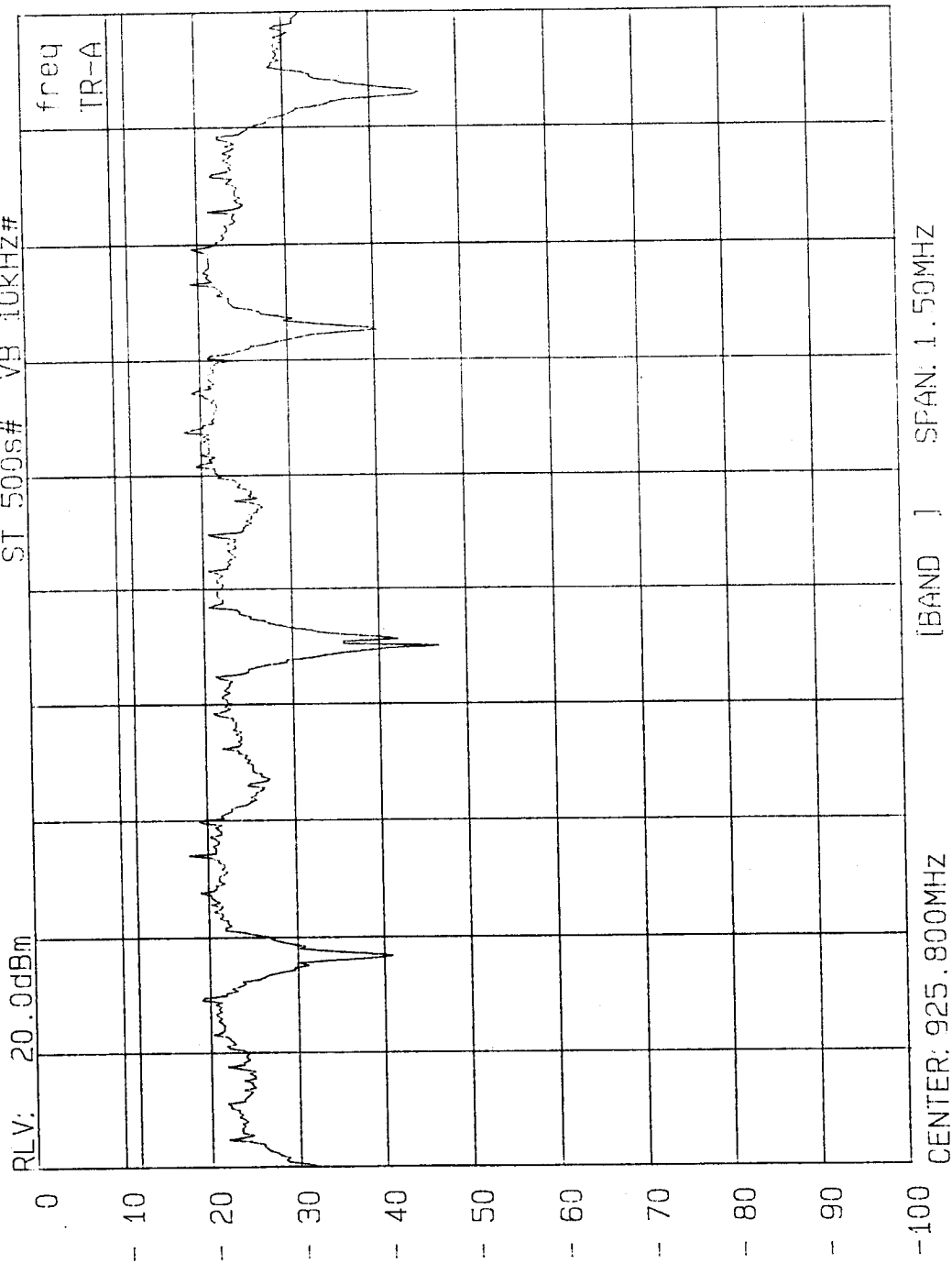
PART 15.247(d) POWER SPECTRAL DENSITY

43-727 BASE CH20 FCC15.247d

A: POS

AT 35dB RB 3KHZ#

ST 500s# VB 10KHZ#



PART 15.247(d) POWER SPECTRAL DENSITY

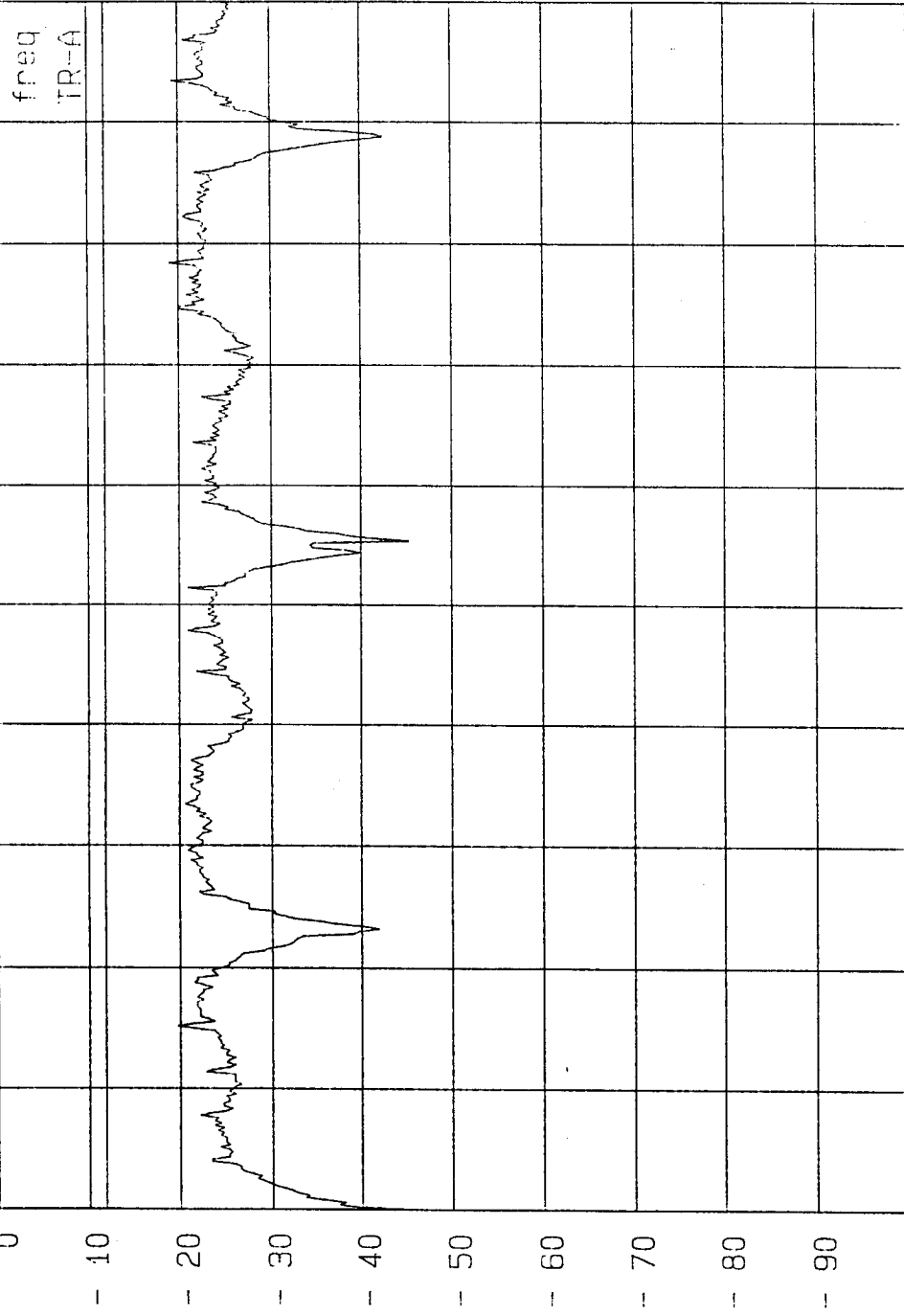
43-727 HANDSET CH01 FCC15.247d

A: POS

AT 35dB RB 3kHz#

ST 500s# VB 10kHz#

RLV: 20.0dBm



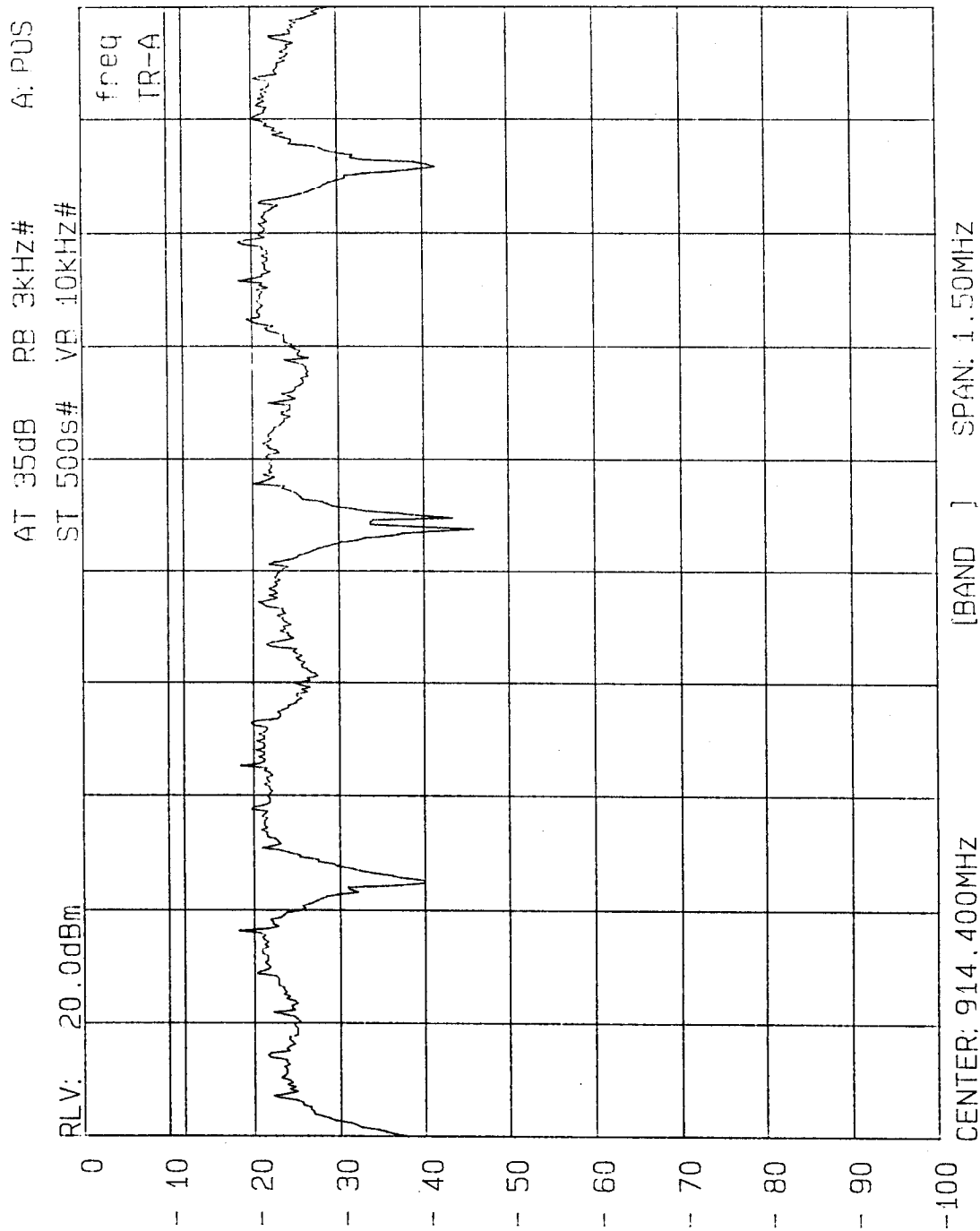
SPAN: 1.50MHz

[BAND]

CENTER: 904.200MHz

PART 15.247(d) POWER SPECTRAL DENSITY

43-727 HANDSET CH10 FCC15.247d



PART 15.247(d) POWER SPECTRAL DENSITY

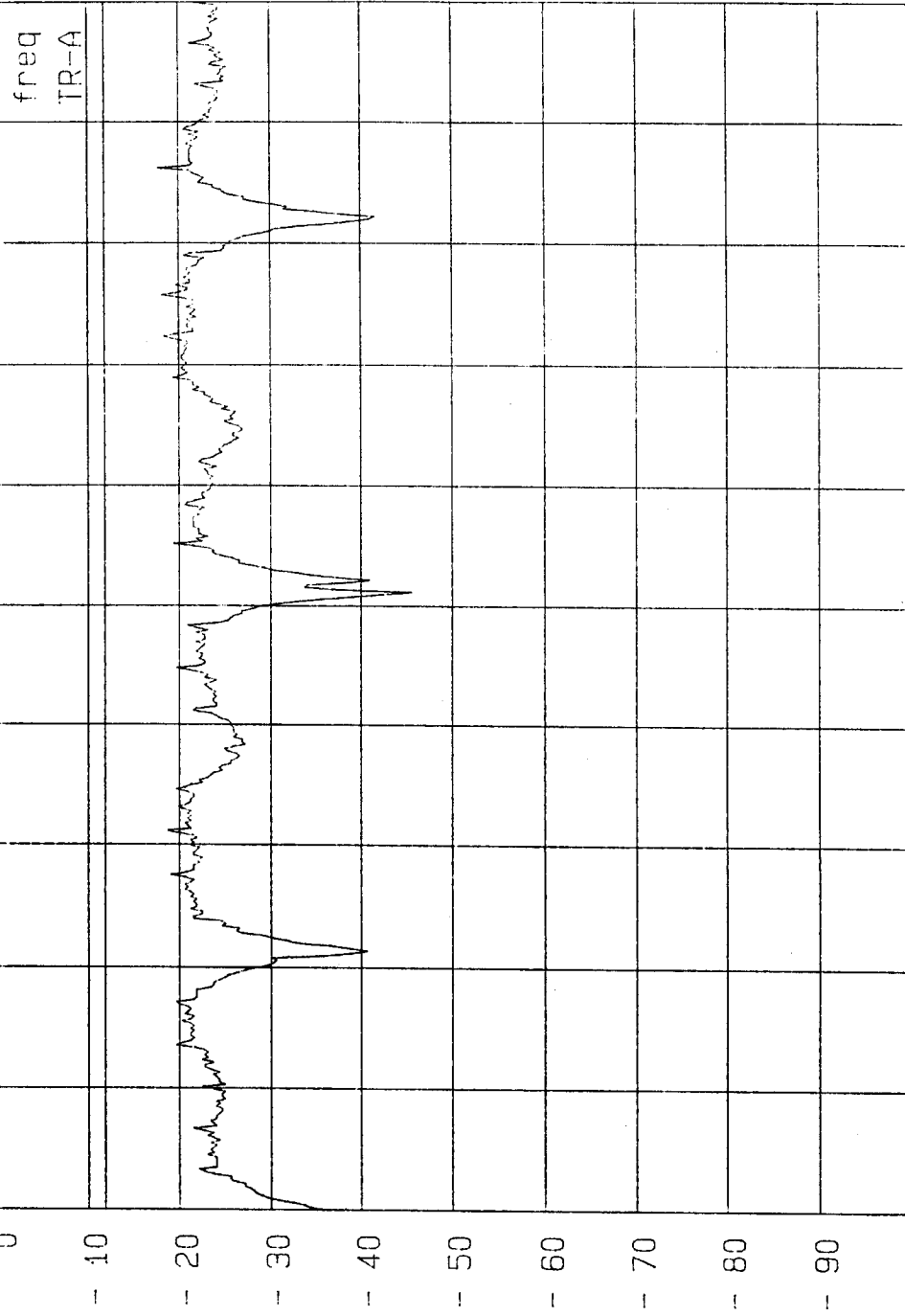
43-727 HANDSET CH20 FCC15.247d

A: POS

AT 35dB RB 3kHz#

ST 500s# VB 10kHz#

RLV: 20.0dBm



[BAND 1] SPAN: 1.50MHz

CENTER: 925.800MHz

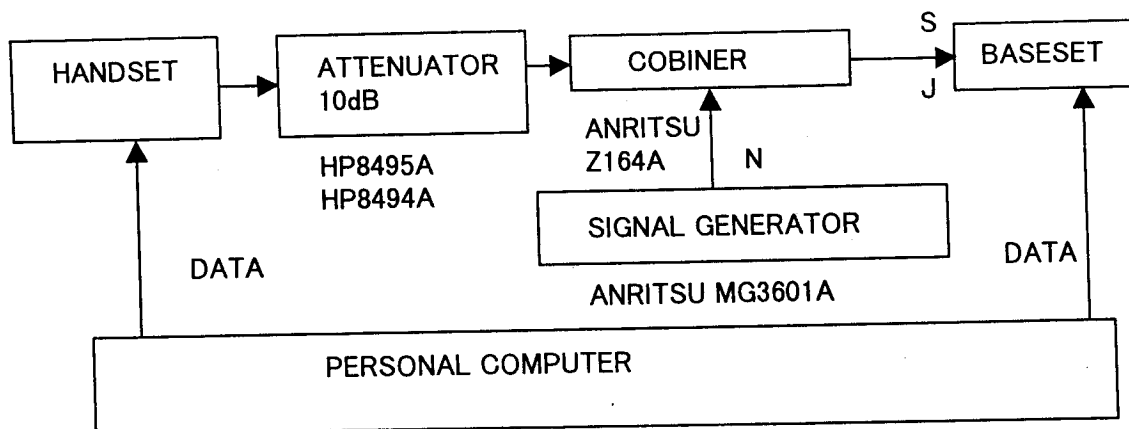
15.247(e)

PROCESSING GAIN

The minimum processing gain was 21.5 dB at 904.45 MHz.

FCC PART 15.247(e)
PROCESSING GAIN MEASUREMENT DATA

Radioshack 43-727



$$G_p = (S/N)_o + M_j + L_{sys}$$

$(S/N)_o$ = Signal to Noise Ratio reqd @BER of $1e-3=8.0$ dB for DBPSK

M_j = Jamming Margin (J/S) in dB

$$M_j = J - S \text{ dB}$$

L_{sys} = System Implementation Losses = 2dB

S = Signal Power at BASE STATION

$$= \text{Signal Power} - \text{Attn} - \text{Combiner loss (with cable loss)} = -26 \quad S = -26 \text{ dBm}$$

$$J = \text{Sig Gen output level (N)} - \text{POWER COMBINER LOSS (with cable loss)}$$

JAMMER FREQ	S(dBm)	N(dBm)	J(dBm)	Mj(dB)	Pg(dB)
903.60	-20.0	-0.5	-7.5	12.5	22.5
903.65	-20.0	-0.5	-7.5	12.5	22.5
903.70	-20.0	-0.5	-7.5	12.5	22.5
903.75	-20.0	2.0	-5.0	15.0	25.0
903.80	-20.0	-0.5	-7.5	12.5	22.5
903.85	-20.0	-1.0	-8.0	12.0	22.0
903.90	-20.0	-1.0	-8.0	12.0	22.0
903.95	-20.0	-1.0	-8.0	12.0	22.0
904.00	-20.0	-0.5	-7.5	12.5	22.5
904.05	-20.0	-1.5	-8.5	11.5	21.5
904.10	-20.0	-2.0	-9.0	11.0	21.0
904.15	-20.0	-2.5	-9.5	10.5	20.5
904.20	-20.0	-2.0	-9.0	11.0	21.0
904.25	-20.0	-2.0	-9.0	11.0	21.0
904.30	-20.0	-1.5	-8.5	11.5	21.5
904.35	-20.0	-0.5	-7.5	12.5	22.5
904.40	-20.0	0.5	-6.5	13.5	23.5
904.45	-20.0	-1.5	-8.5	11.5	21.5
904.50	-20.0	-1.0	-8.0	12.0	22.0
904.55	-20.0	-1.0	-8.0	12.0	22.0
904.60	-20.0	0.0	-7.0	13.0	23.0
904.65	-20.0	2.5	-4.5	15.5	25.5
904.70	-20.0	-1.0	-8.0	12.0	22.0
904.75	-20.0	-0.5	-7.5	12.5	22.5
904.80	-20.0	-1.0	-8.0	12.0	22.0