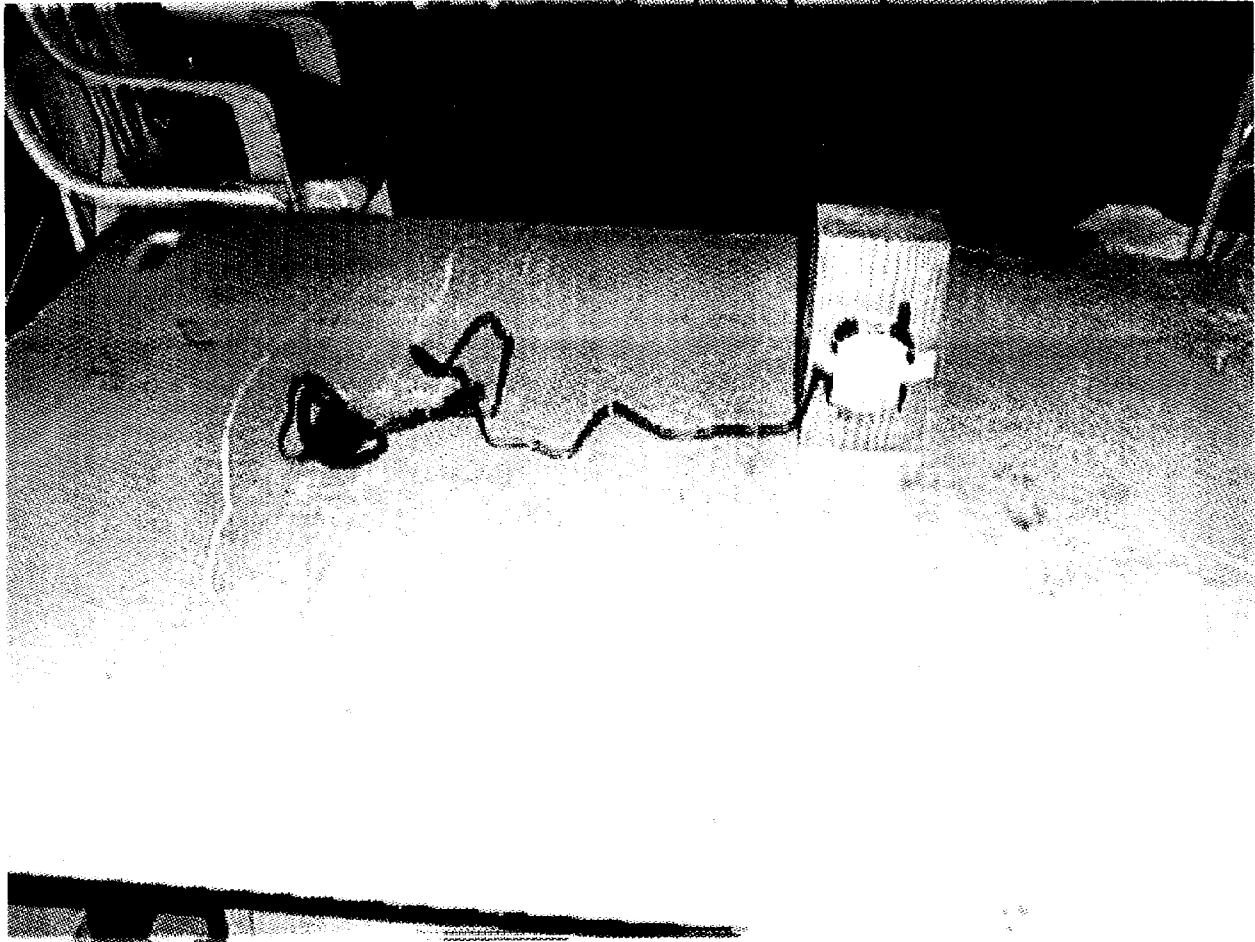


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VTEC Telecommunications, Model 1411

Date of Test: September 23-28, 2000

4.2 Test Setup Photos



VTEC Telecommunications, Model 1411

Date of Test: September 23-28, 2000

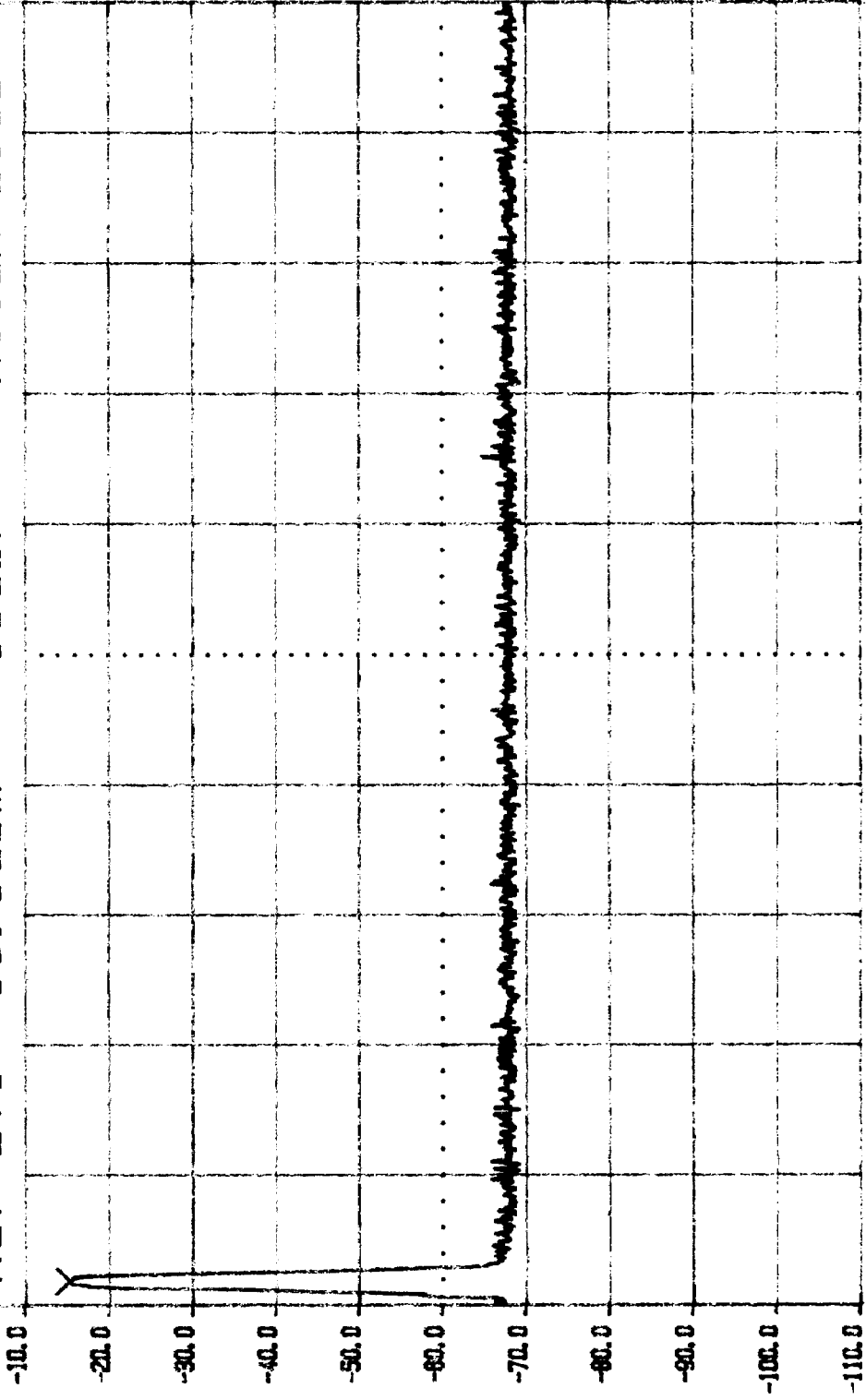
**5.0 Out of Band Emission Plot**

The following plots show the relative spurious emission level of the transmitter.

<b>Plot #</b>	<b>Description</b>
1a - 1e	Base Low channel 1 MHz - 10 GHz
2a - 2e	Base High channel 1 MHz - 10 GHz
3a - 3e	Handset Low channel 1 MHz - 10 GHz
4a - 4e	Handset High channel 1 MHz - 10 GHz

Mkr 902.49MHz -15.90dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



902.00MHz to 928.00MHz  
ResBW 100kHz VidBW 100kHz SWP 50ms

LEVEL SPAN

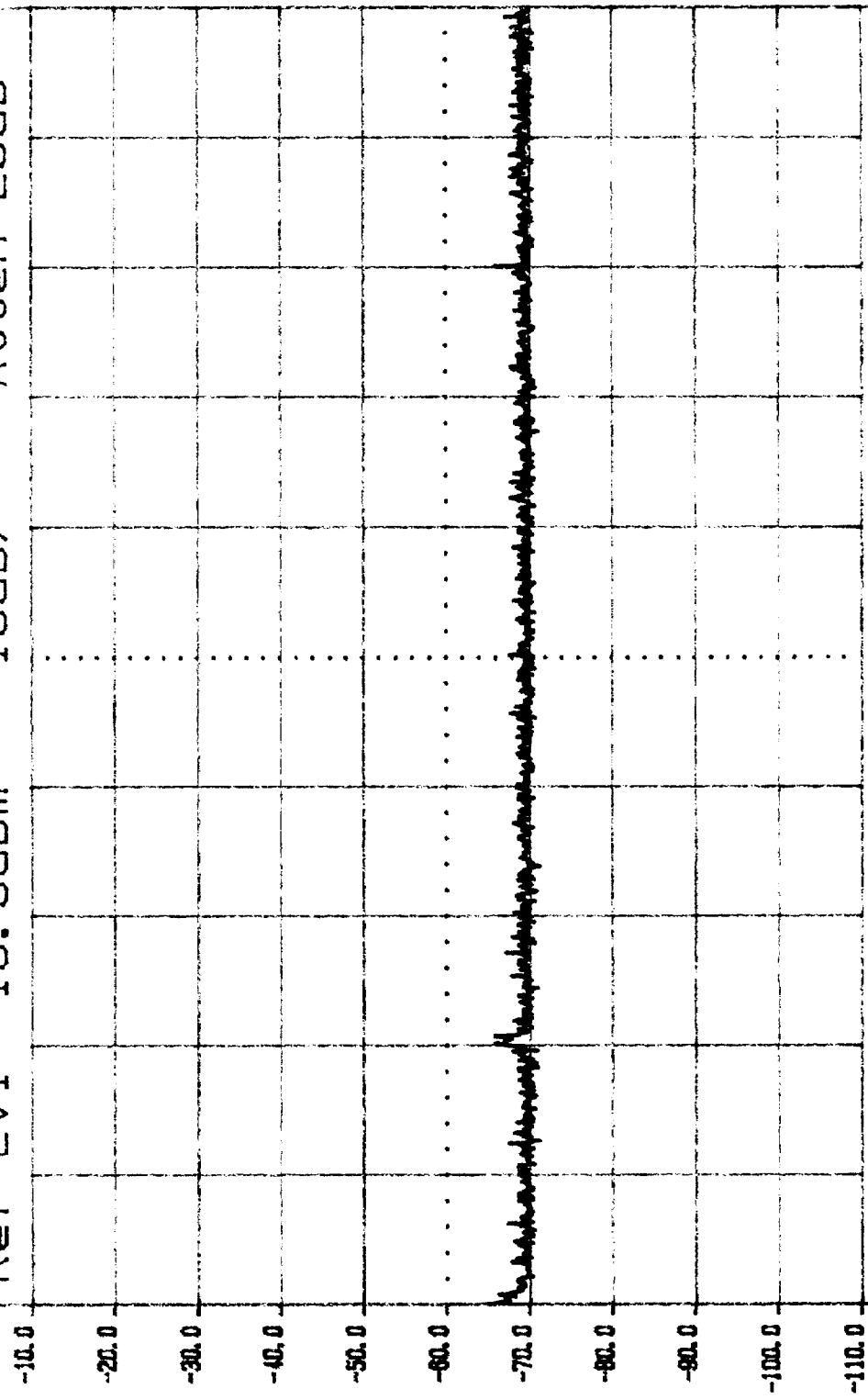
Stop 928.00MHz

Knob 2 Knob 1 Keypad Tektronix 2784

Slot 1a

Mkr 50.50MHz -70.70dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB

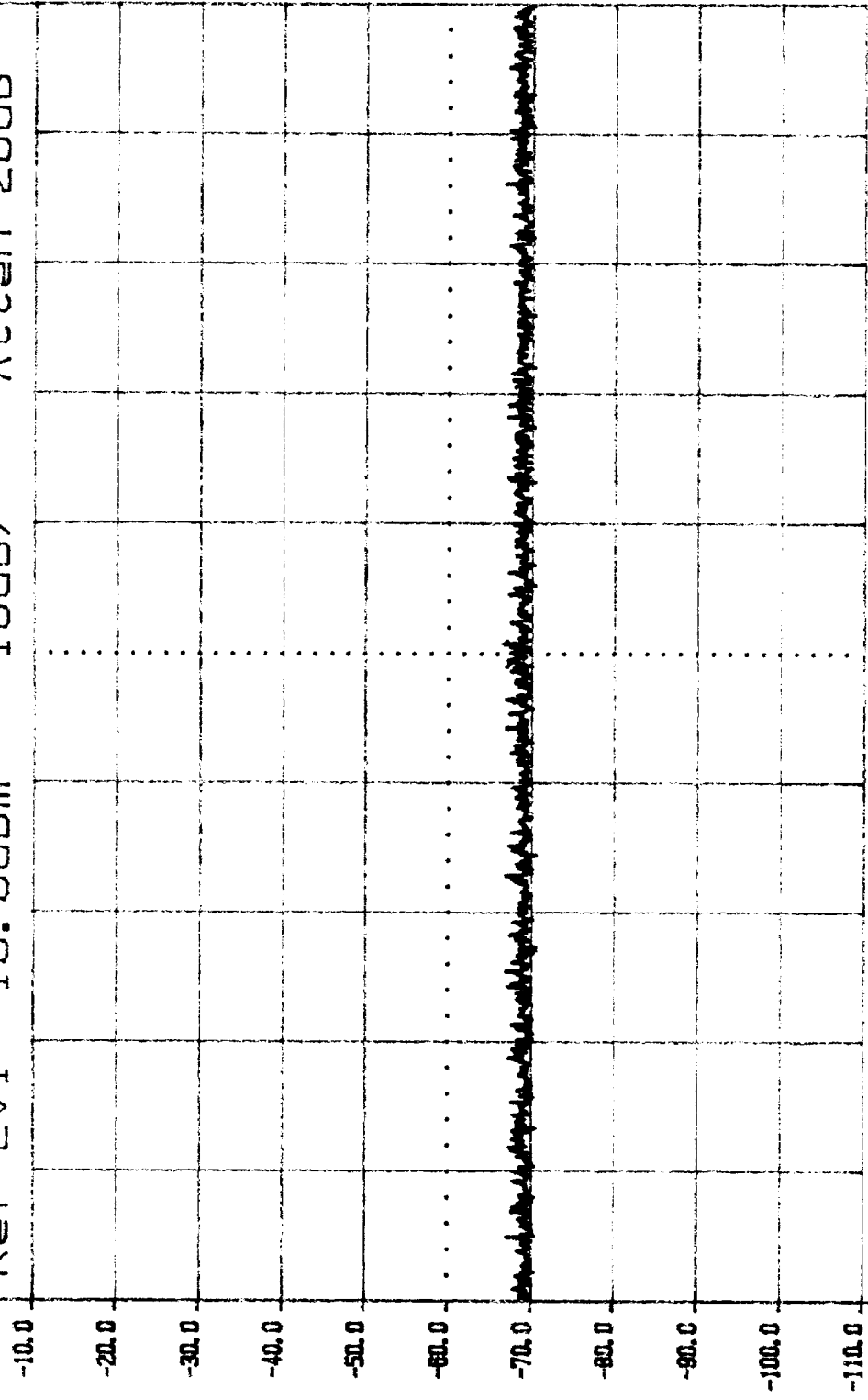


1.00MHz to 100.00MHz  
ResBW 100kHz VidBW 100kHz SWP 56mS

LEVEL SPAN

Mkr 501.0MHz -68.80dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



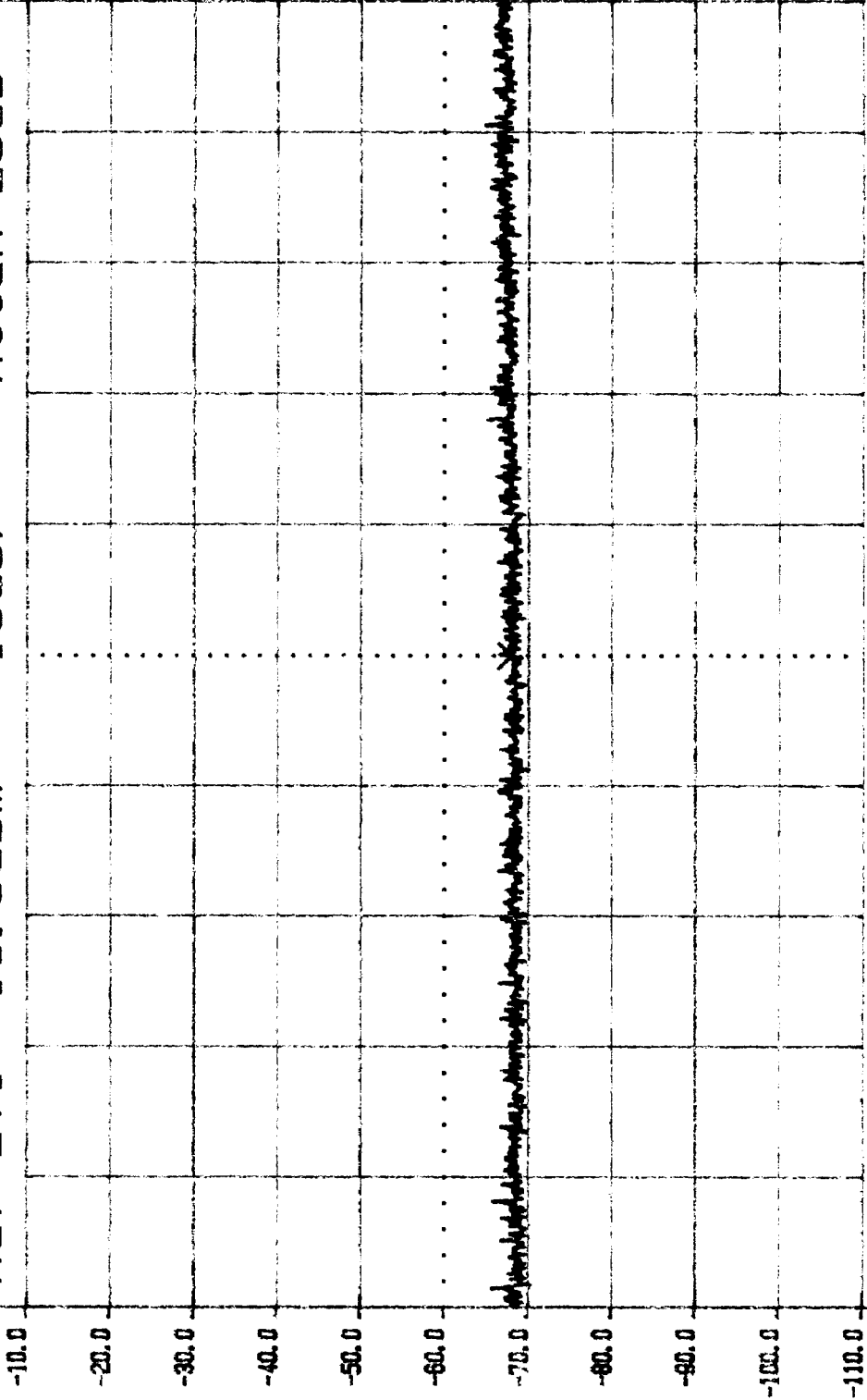
100.0MHz to 902.0MHz  
ResBW 100kHz VidBW 100kHz SWP 460ms

LEVEL SPAN

Stop 902.0MHz

Mkr 1.714GHz -68.30dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



928MHz to 2.500GHz  
ResBW 100kHz VidBW 100kHz SWP 900ms

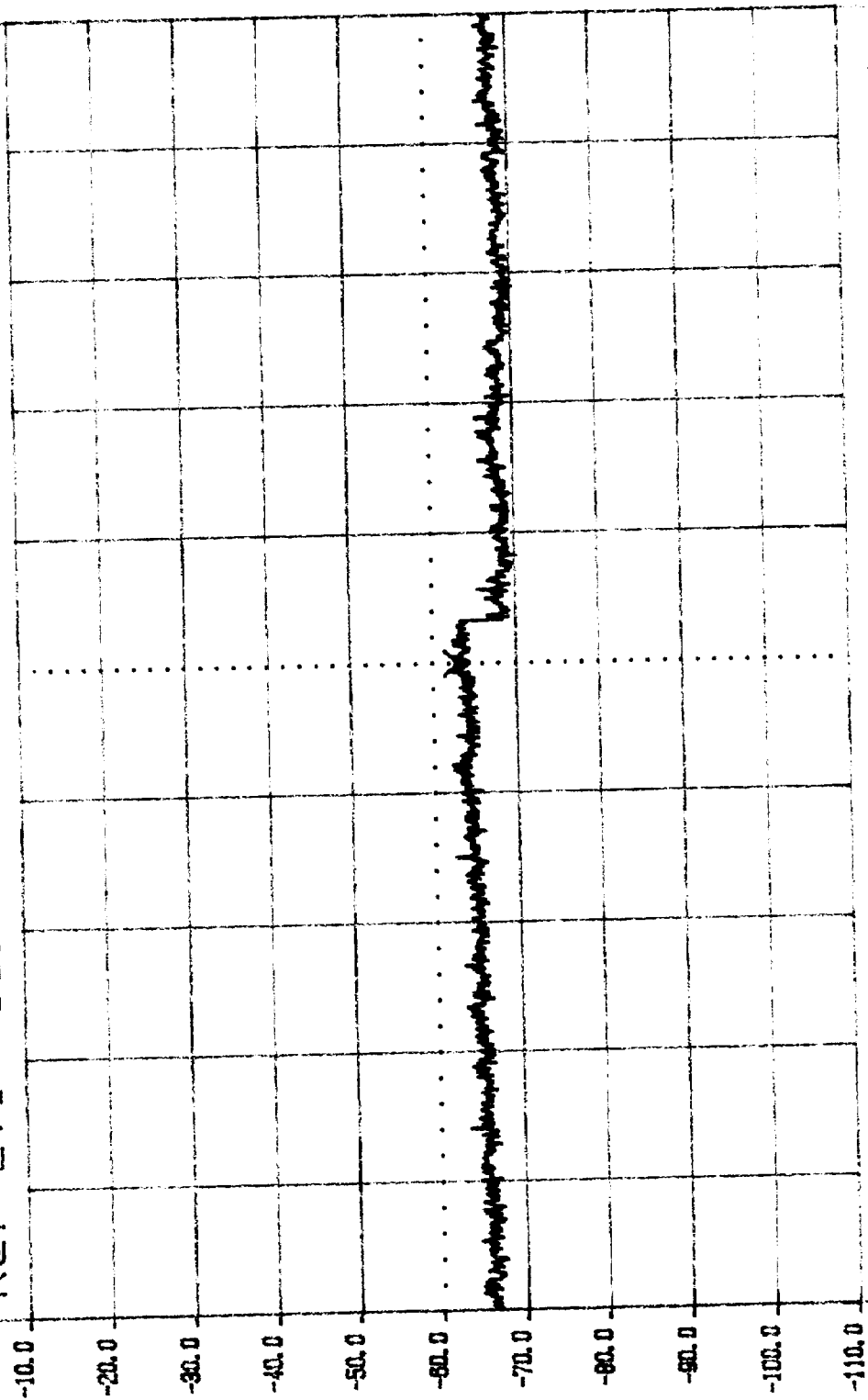
LEVEL SPAN

Stop 2.500GHz

Plot 1d

TEK

Mkr 6.250GHZ -63.20dBm  
Ref Lvl -10.0dBm 10dB/ Atten 20dB



2.500GHZ to 10.000GHZ  
ResBW 100kHz VidBW 100kHz SWP 4.3S

LEVEL SPAN

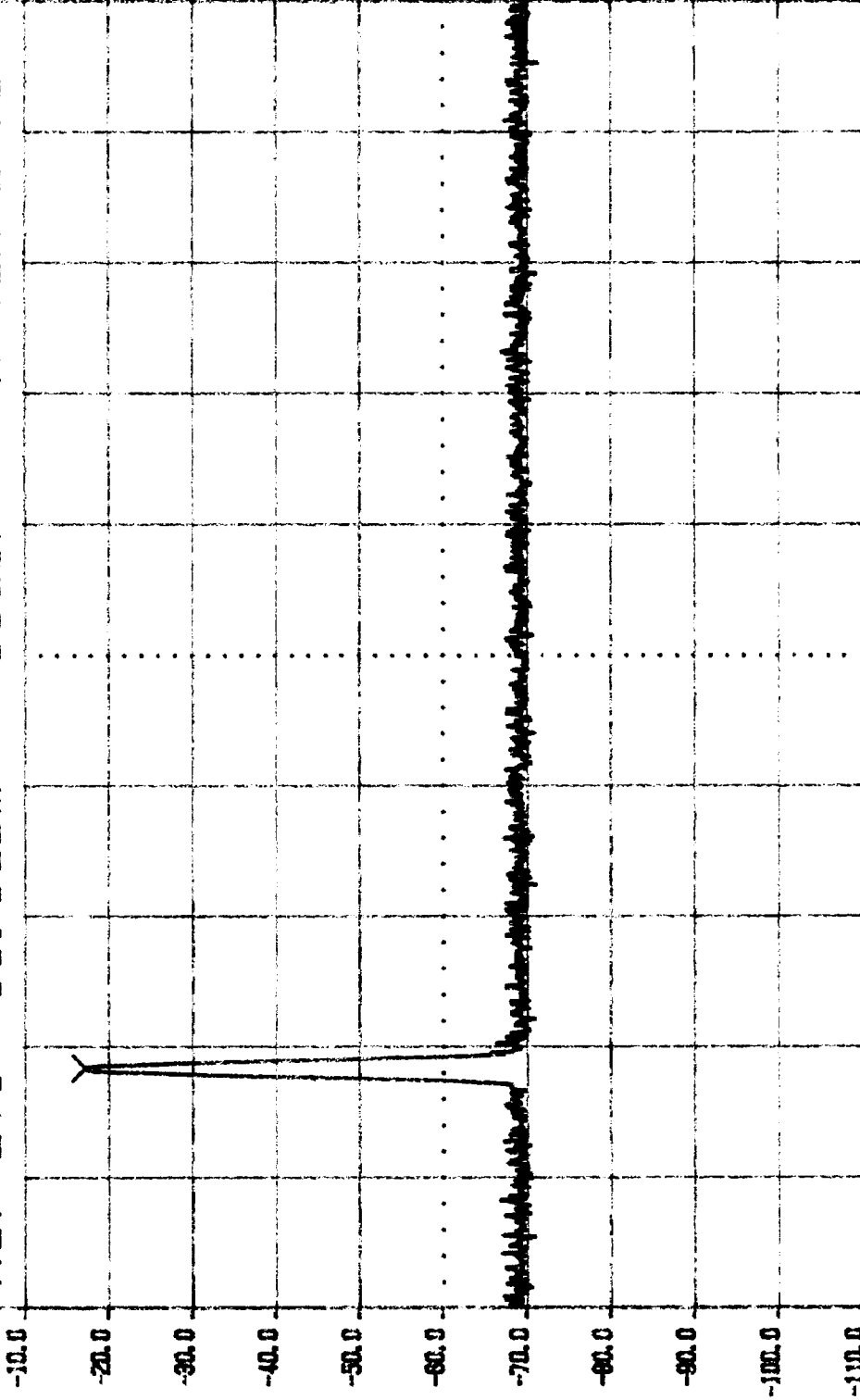
Stop 10.000GHZ

KNOB 2 KNOB 1 KEYPAD Tektronix 2784

Slot 1c

Mkr 906.78MHz -17.90dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



902.00MHz to 928.00MHz  
ResBW 100kHz VidBW 100kHz SWP 50ms

LEVEL SPAN

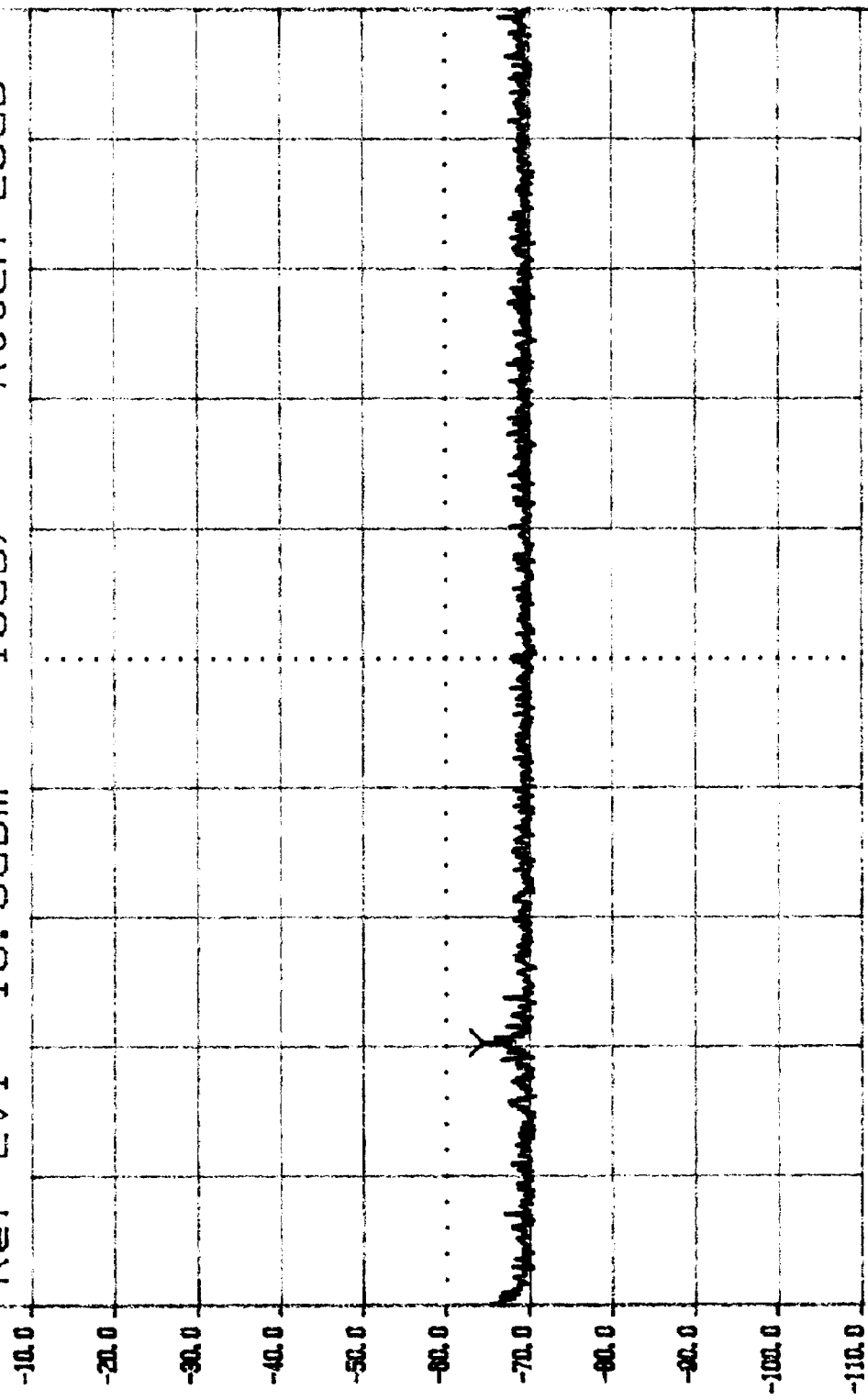
KNOB 2 KNOB 1 KEYPAD Tektronix 2784

Plot 2a



Mkr 21.10MHz      -64.90dBm      Tek

Ref Lvl -10.0dBm      10dB/      Atten 20dB

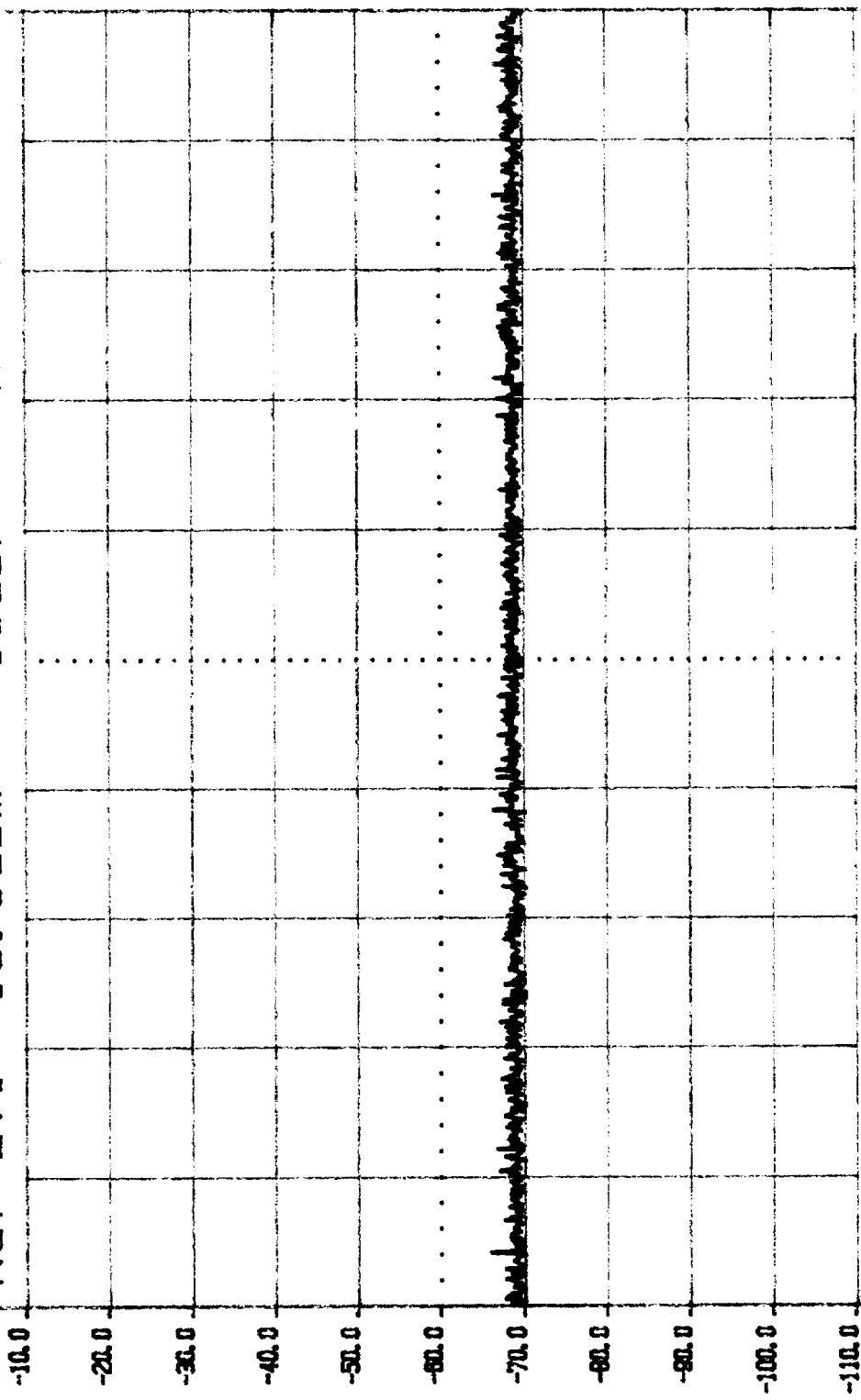


1.00MHz      to      100.00MHz  
ResBW 100kHz      VidBW 100kHz      SWP 56ms

LEVEL      SPAN

Mkr 501.0MHz -70.00dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



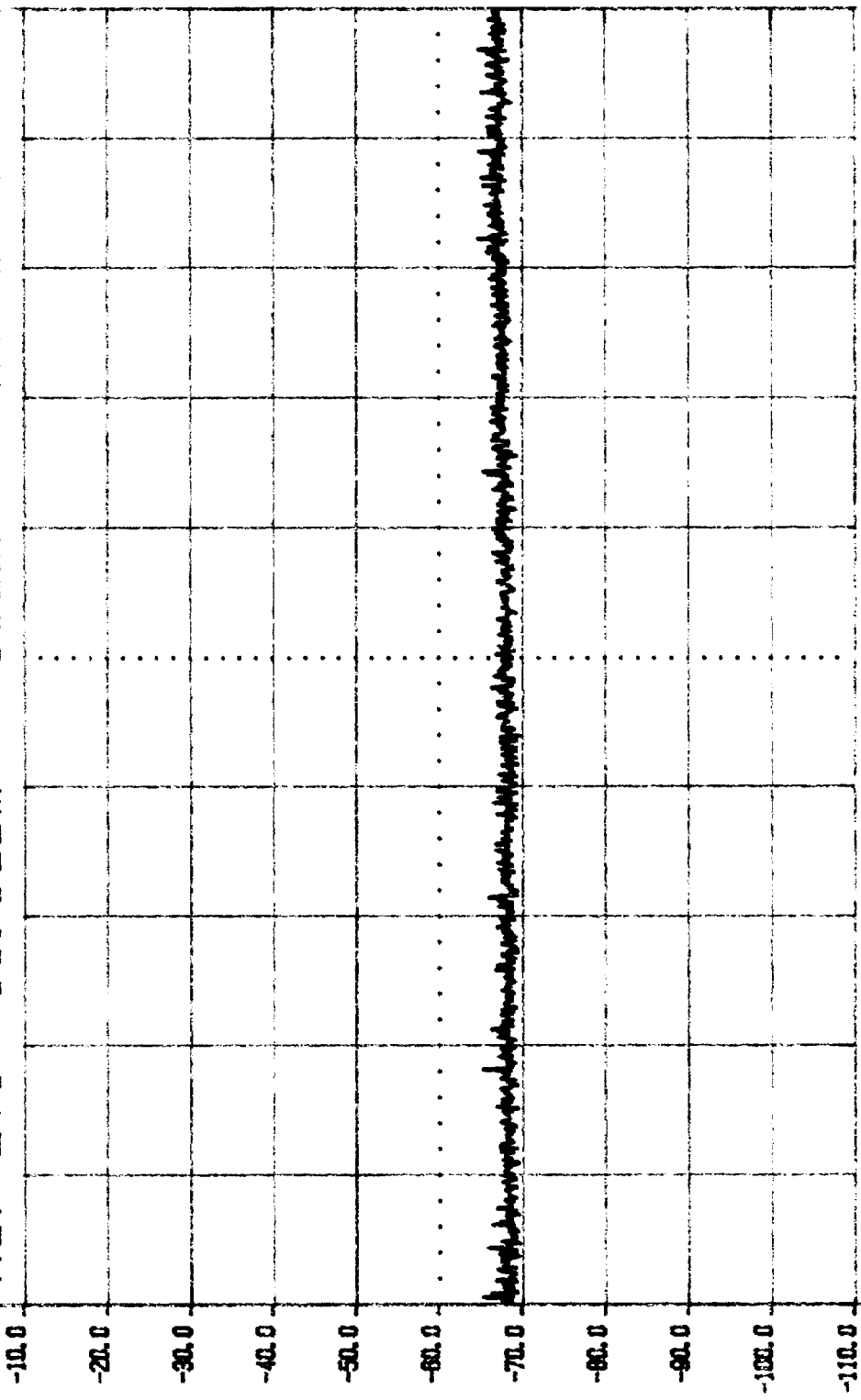
100.0MHz to 902.0MHz  
ResBW 100kHz VidBW 100kHz SWP 460ms

LEVEL SPAN

Stop 902.0MHz

Mkr 1.714GHz -69.00dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



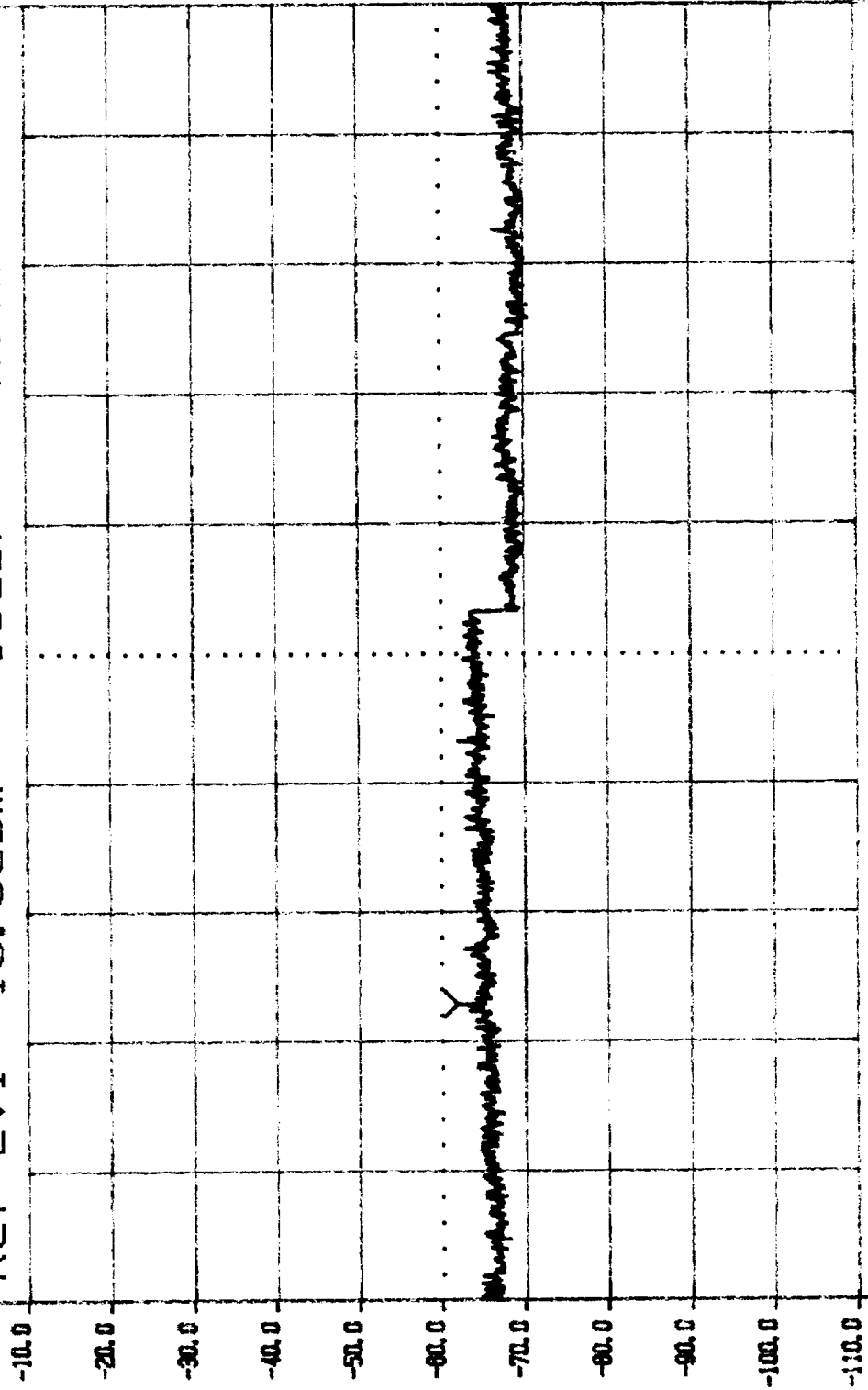
928MHz to 2.500GHz  
ResBW 100kHz VidBW 100kHz SWP 900ms

LEVEL SPAN

Stop 2.500GHz

Mkr 4.217GHz -62.30dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



2.500GHz to 10.000GHz  
ResBW 100kHz VidBW 100kHz SWP 4.3S

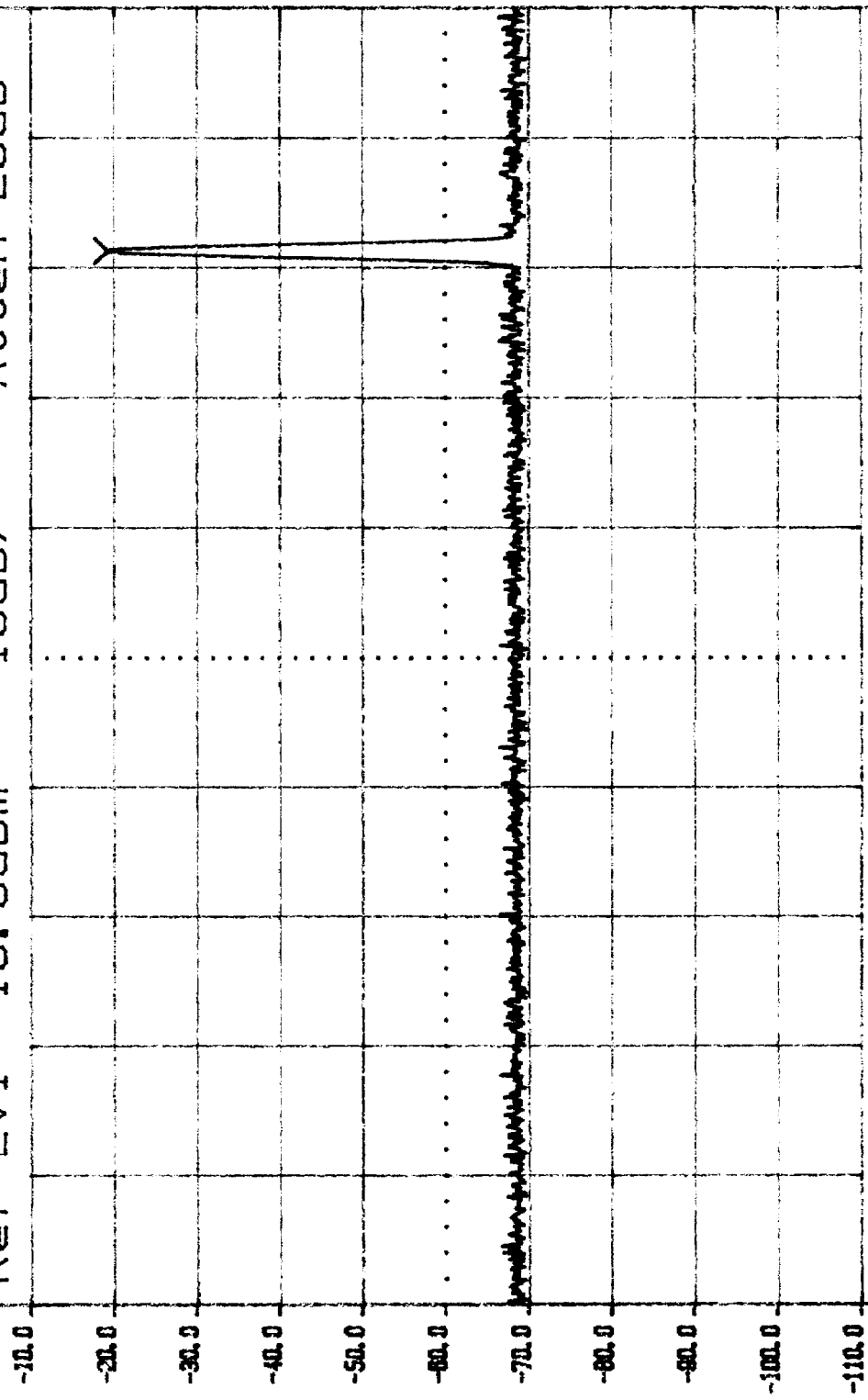
LEVEL SPAN

Stop 10.000GHz

Plot 2e

Mkr 923.14MHz -20.00dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



902.00MHz to 928.00MHz  
ResBW 100kHz VidBW 100kHz SWP 50ms

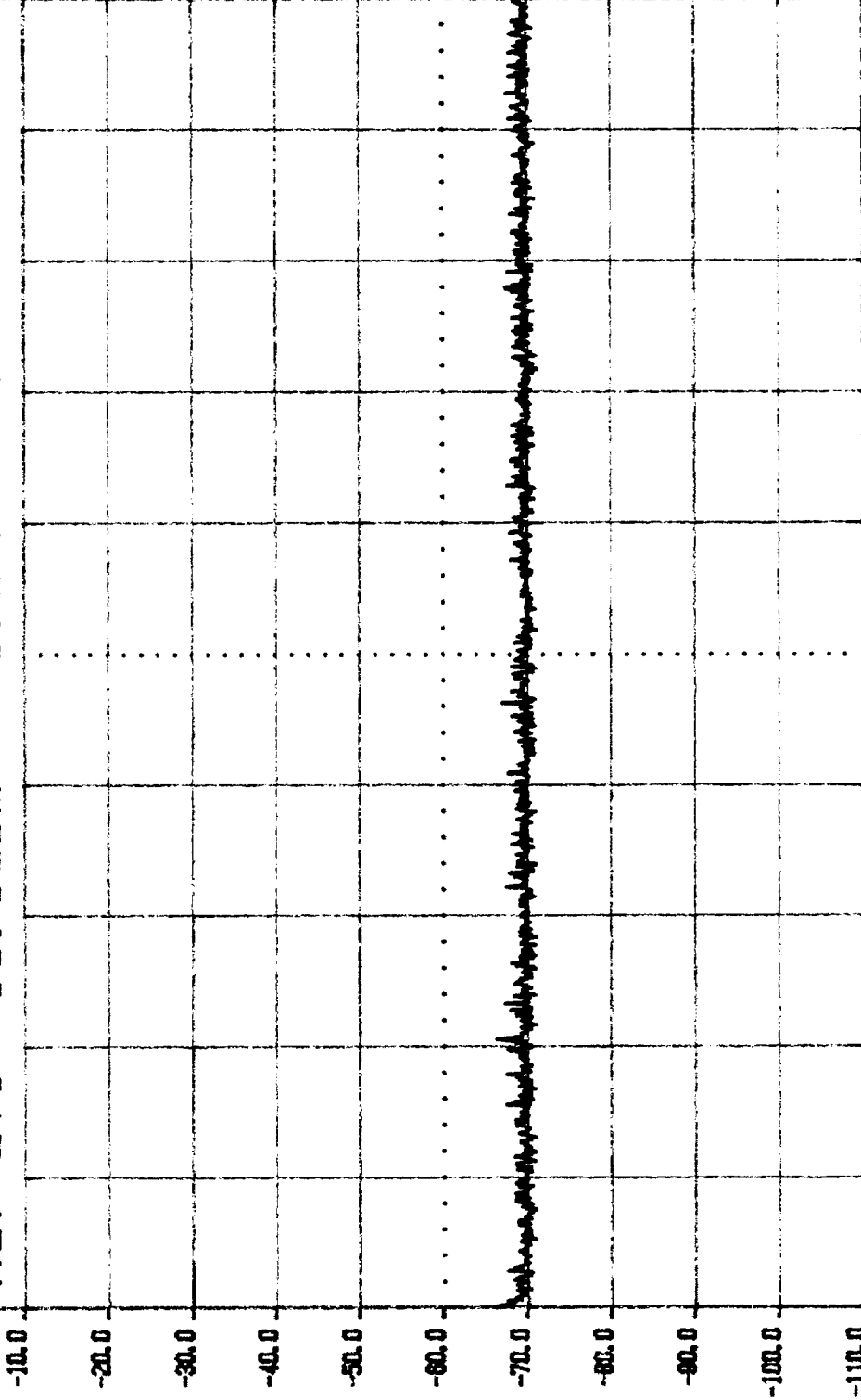
LEVEL SPAN

Knob 2 Knob 1 KEYPAD Tektronix 2784

Plot 3a

Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



1.00MHz to 100.00MHz  
ResBW 100kHz VidBW 100kHz SWP 56ms

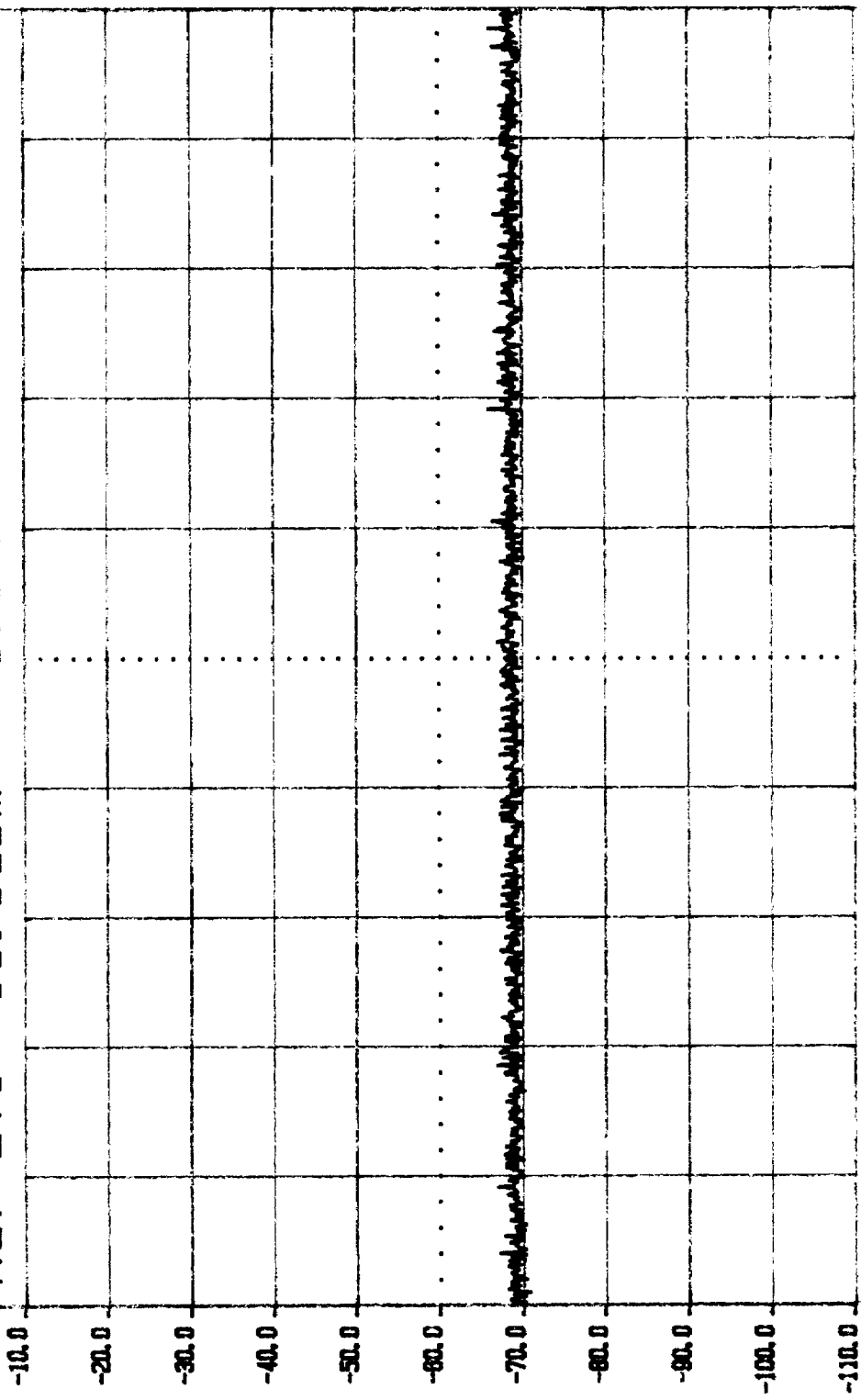
LEVEL SPAN

Knob 2 Knob 1 KEYPAD Tektronix 2784

Plot 3b

Mkr 501.0MHz -69.40dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



100.0MHz to 902.0MHz  
ResBW 100kHz VidBW 100kHz SWP 460mS

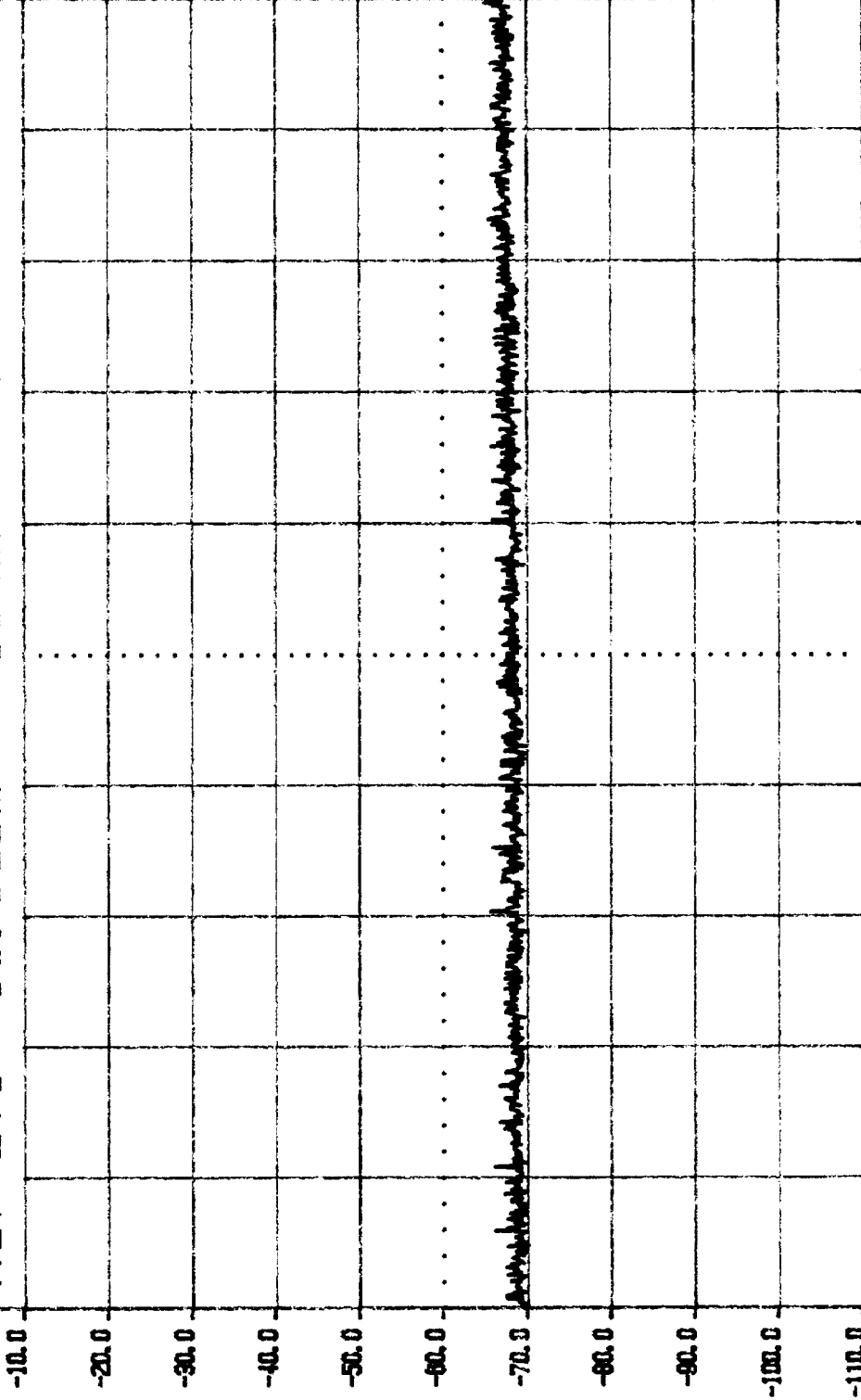
LEVEL SPAN

KNOB 2 KNOB 1 KEYPAD Tektronix 27B4

Plot 3c

Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



928MHz to 2.500GHz  
ResBW 100kHz VidBW 100kHz SWP 900ms

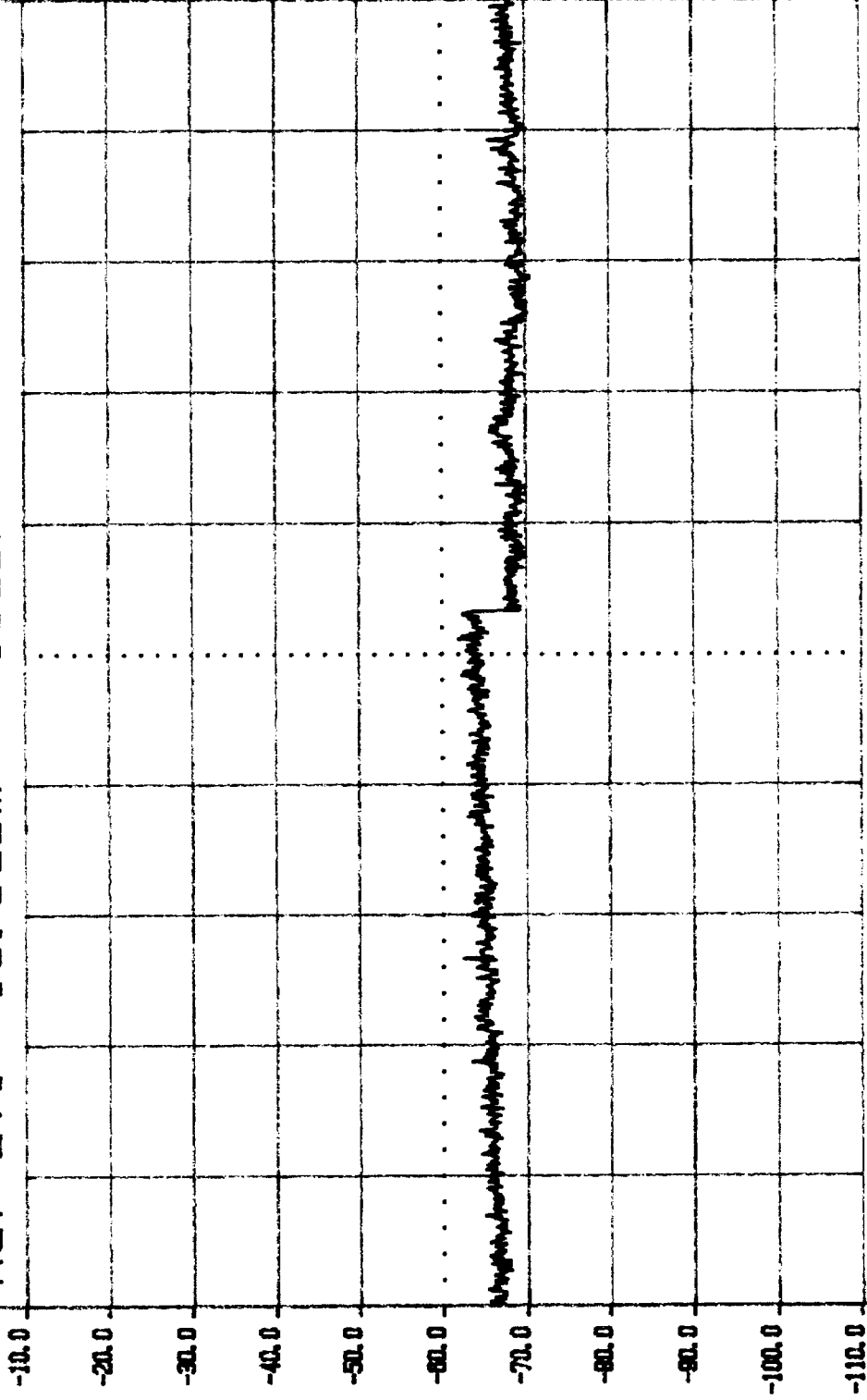
LEVEL SPAN

Stop 2.500GHz



Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



2.500GHZ to 10.000GHZ  
ResBW 100kHz VidBW 100kHz SWP 4.3S

LEVEL SPAN

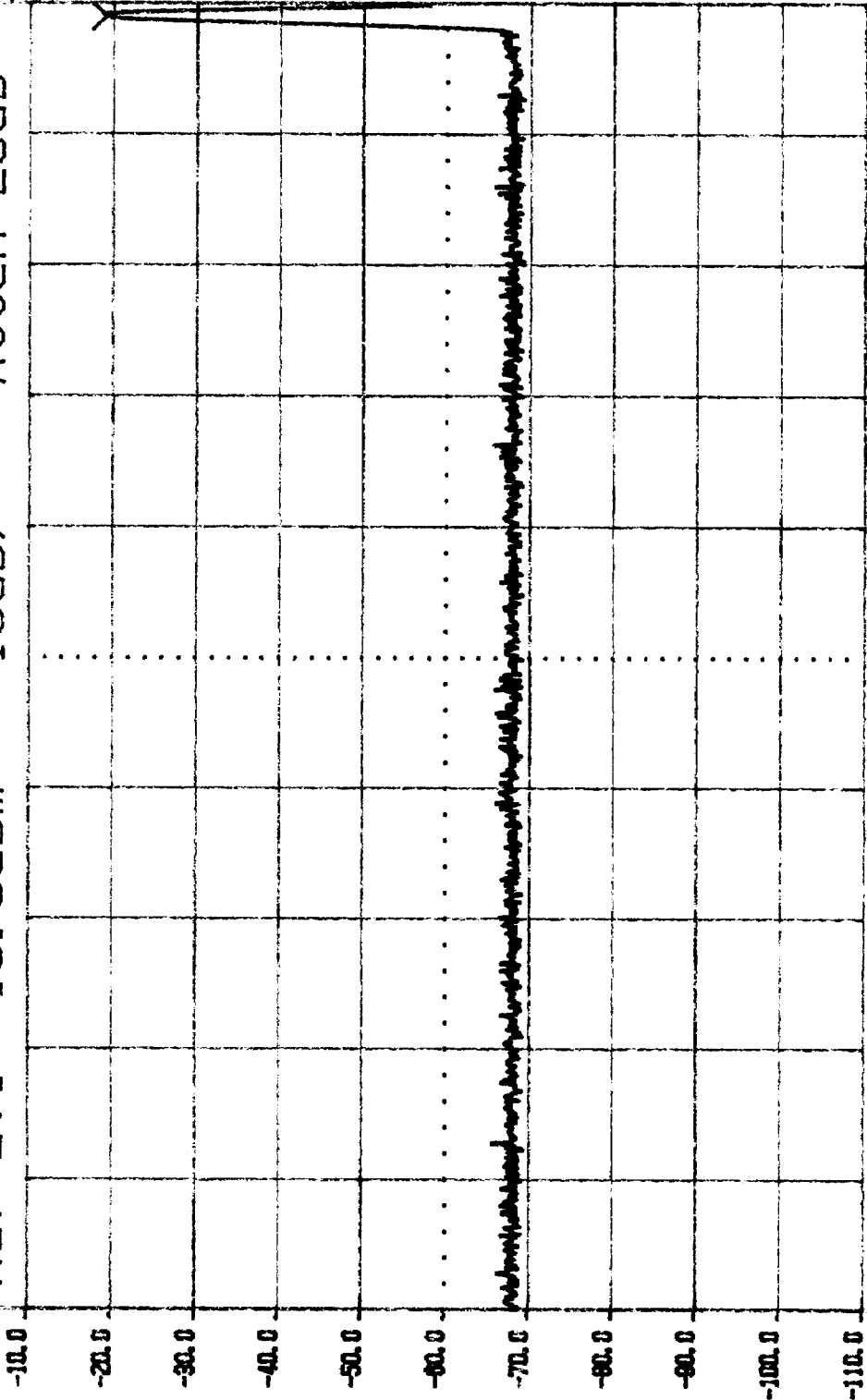
Stop 10.000GHZ

Knob 2 Knob 1 KEYPAD Tektronix 2784

6/11/32

Mkr 927.74MHz -19.90dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



902.00MHz to 928.00MHz  
ResBW 100kHz VidBW 100kHz SWP 50ms

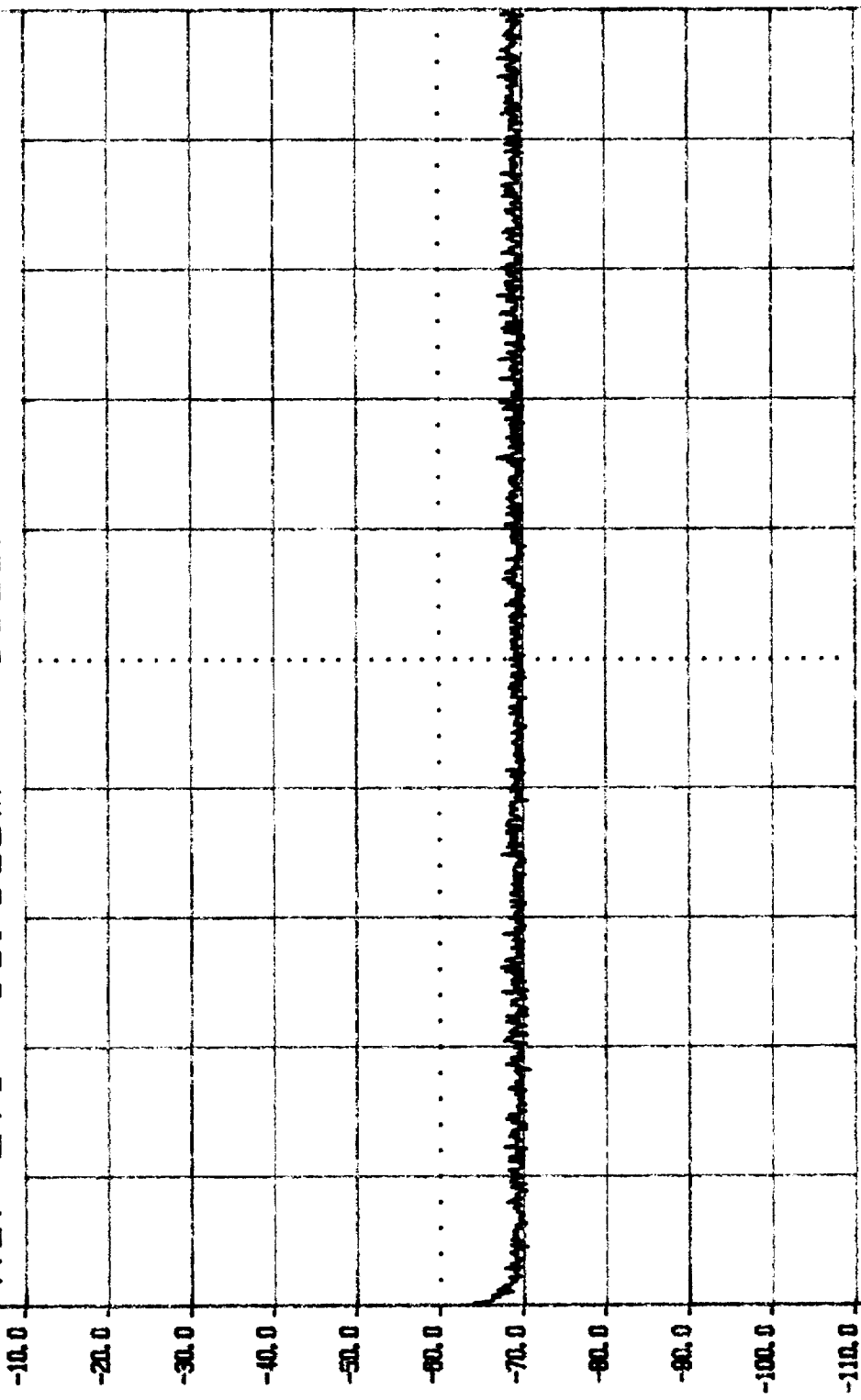
LEVEL SPAN

Ref Lvl -10.0dBm

Plot 4a

Mkr 99.01MHz -69.90dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



1.00MHz to 100.00MHz  
ResBW 100kHz VidBW 100kHz SWP 56ms

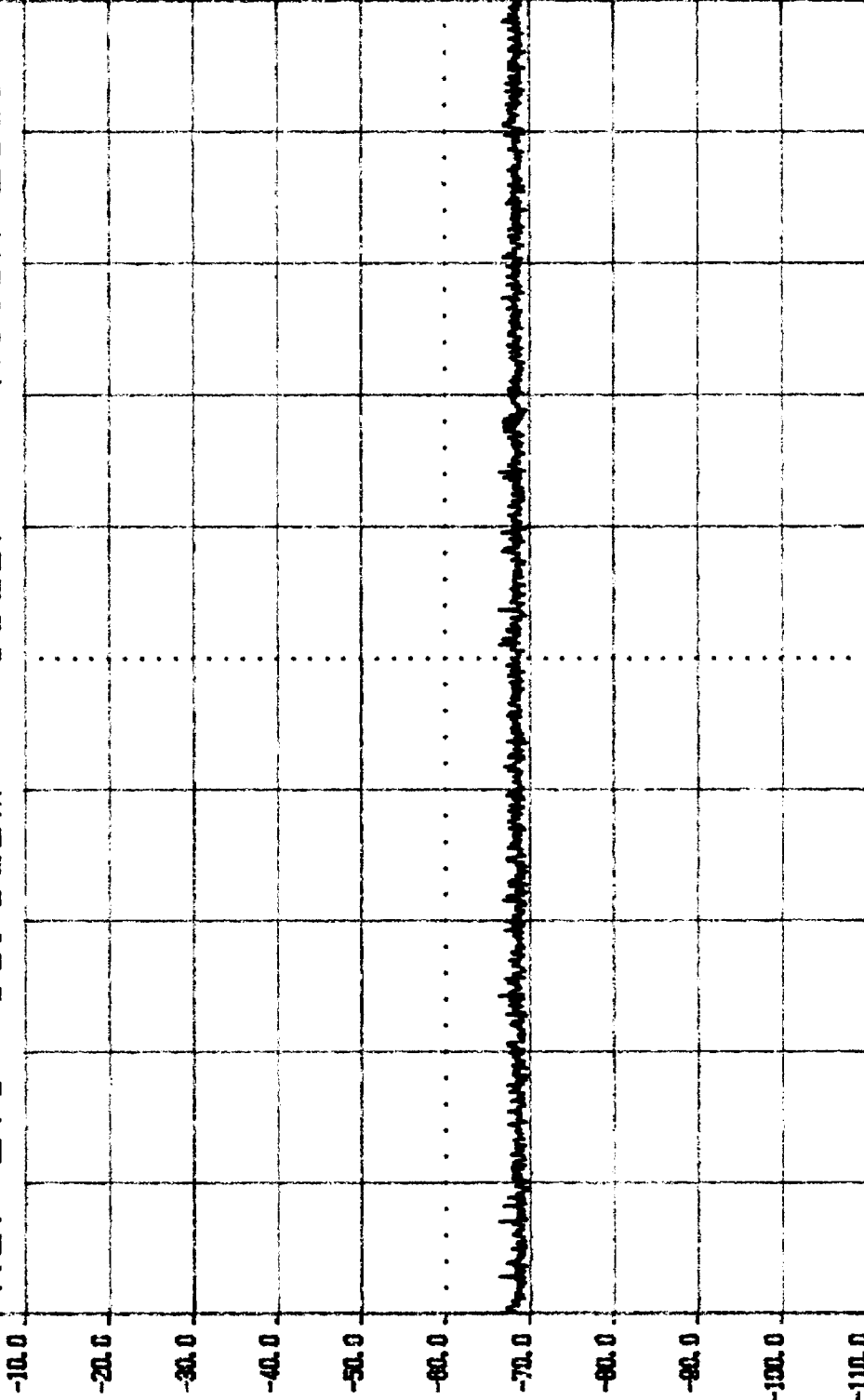
LEVEL SPAN

Mkr 99.01MHz

Plot 4b

Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



100.0MHz to 902.0MHz  
ResBW 100kHz VidBW 100kHz SWP 460ms

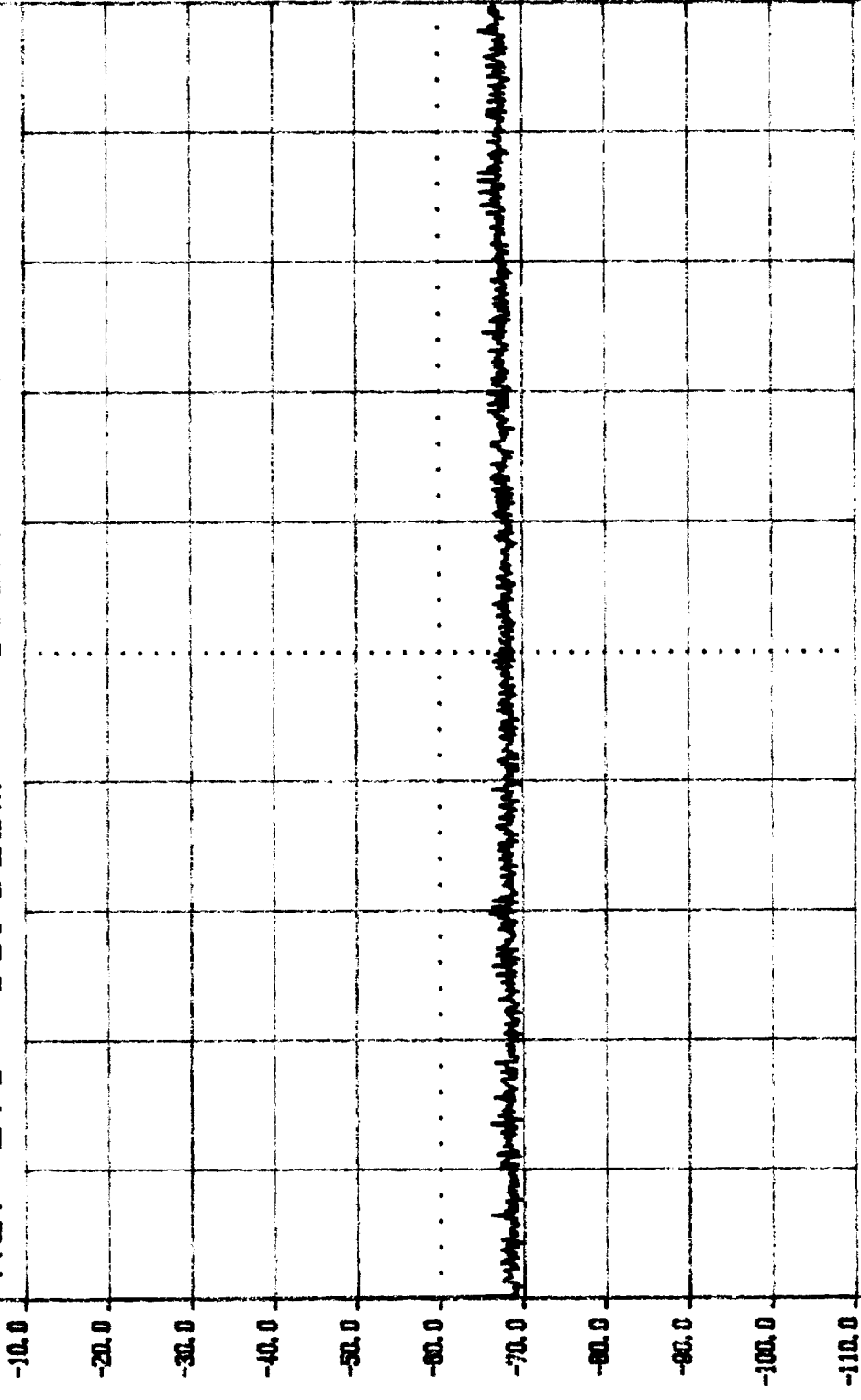
LEVEL SPAN

Knob 2 Knob 1 KEYPAD Tektronix 2784

Plot 4c

Mkr 1.714GHz -69.10dBm Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



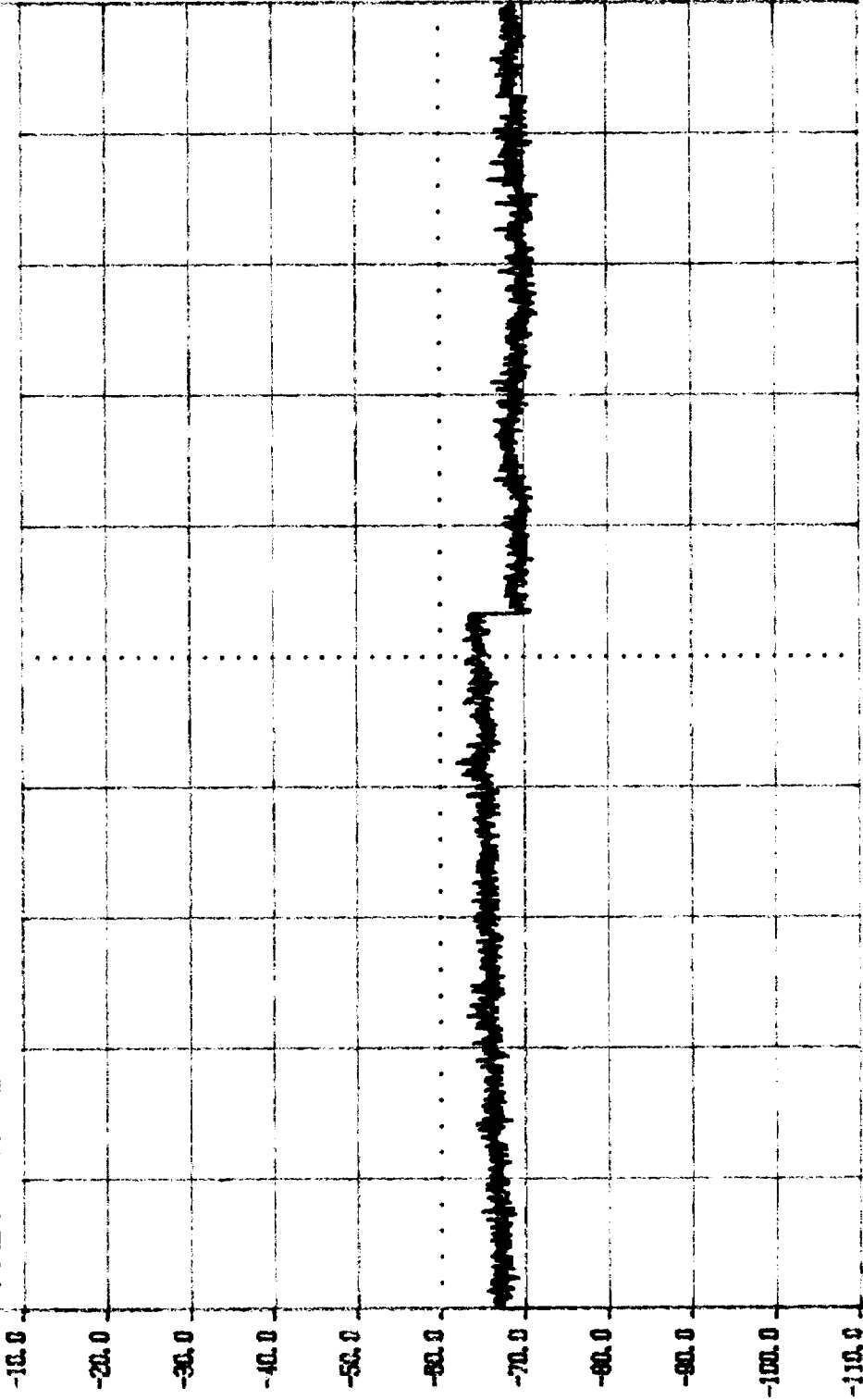
928MHz to 2.500GHz  
ResBW 100kHz VidBW 100kHz SWP 900ms

LEVEL SPAN

Knob 2 Knob 1 KEYPAD Tektronix 2784  
Plot 4d

Tek

Ref Lvl -10.0dBm 10dB/ Atten 20dB



2.500GHZ to 10.000GHZ  
ResBW 100kHz VidBW 100kHz SWP 4.3S

LEVEL SPAN

Knob 2 Knob 1 KEYPAD Tektronix 2784

Plot 4e