

JXB24X4P-08T

Antenna Emissions MASK

Band 24,250 to 25,250 MHz

Plots 1 – 2 for 4X Data Rates

Plots 3 – 4 for 8X Data Rates

Emission Limitations Analysis CFR 47 part 101.111 (4)i,ii,iii

For 50% to 50% +500KHz

$$A = 50 + .06(F - 5 \times B) + 10 \times \log(N) \text{ decibels}$$

$$B = 40 \text{ MHz}, N = 2$$

For 50% +500KHz to edge of DEMS Band (24.25 GHz to 25.25 GHz)

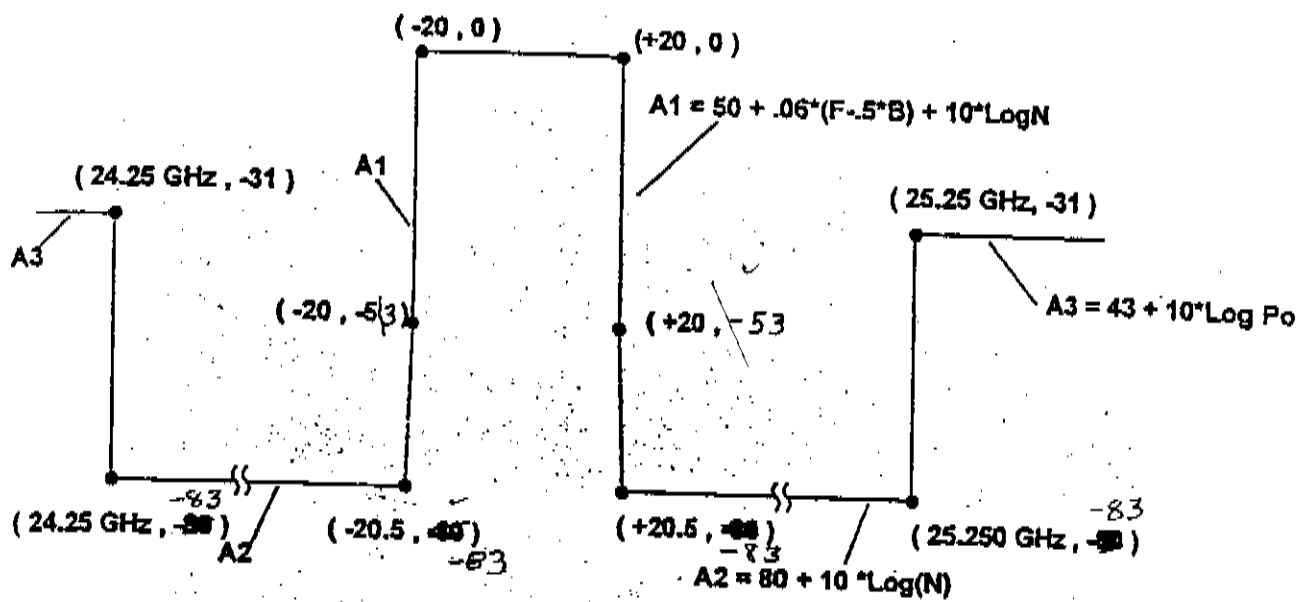
$$A = 80 + 10 \times \log(N) \text{ decibels} = 83 \text{ dBc} \quad (\text{Must not be less than } 80 \text{ dBc})$$

For outside the DEMS Band

$$A = 43 + 10 \times \log(\text{Means Transmitter Power})$$

$$\text{Means Transmitter Power} = .063 \text{ Watts}$$

$$\therefore A = 43 - 12 = 31 \text{ dBc for frequencies outside the band between } 24.25 \text{ GHz and } 25.25 \text{ GHz}$$



XP4 24 GHz DEMS MASK JXB24X4P-o8T CFR 47, Part 101.111

Power = .063 Watts

N = # of Sub Channels = 2

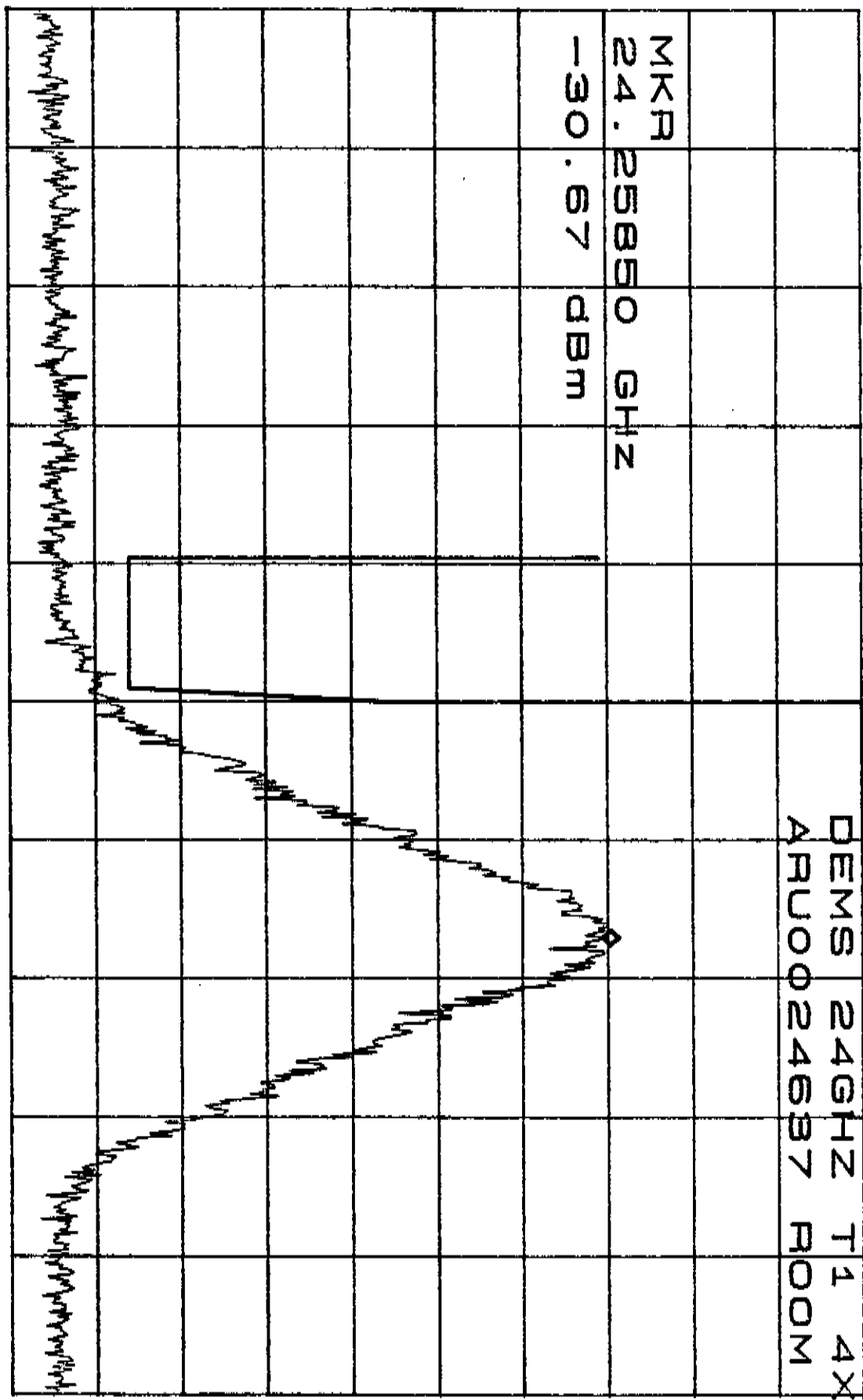
F = Difference Frequency

B = Bandwidth of DEMS Channel = 40 MHz

A = Attenuation Below Means Power

ATTEN 10dB VAVG 0 MKR -30.67dBm
 FL 0dBm 10dB/ 24.25850GHz

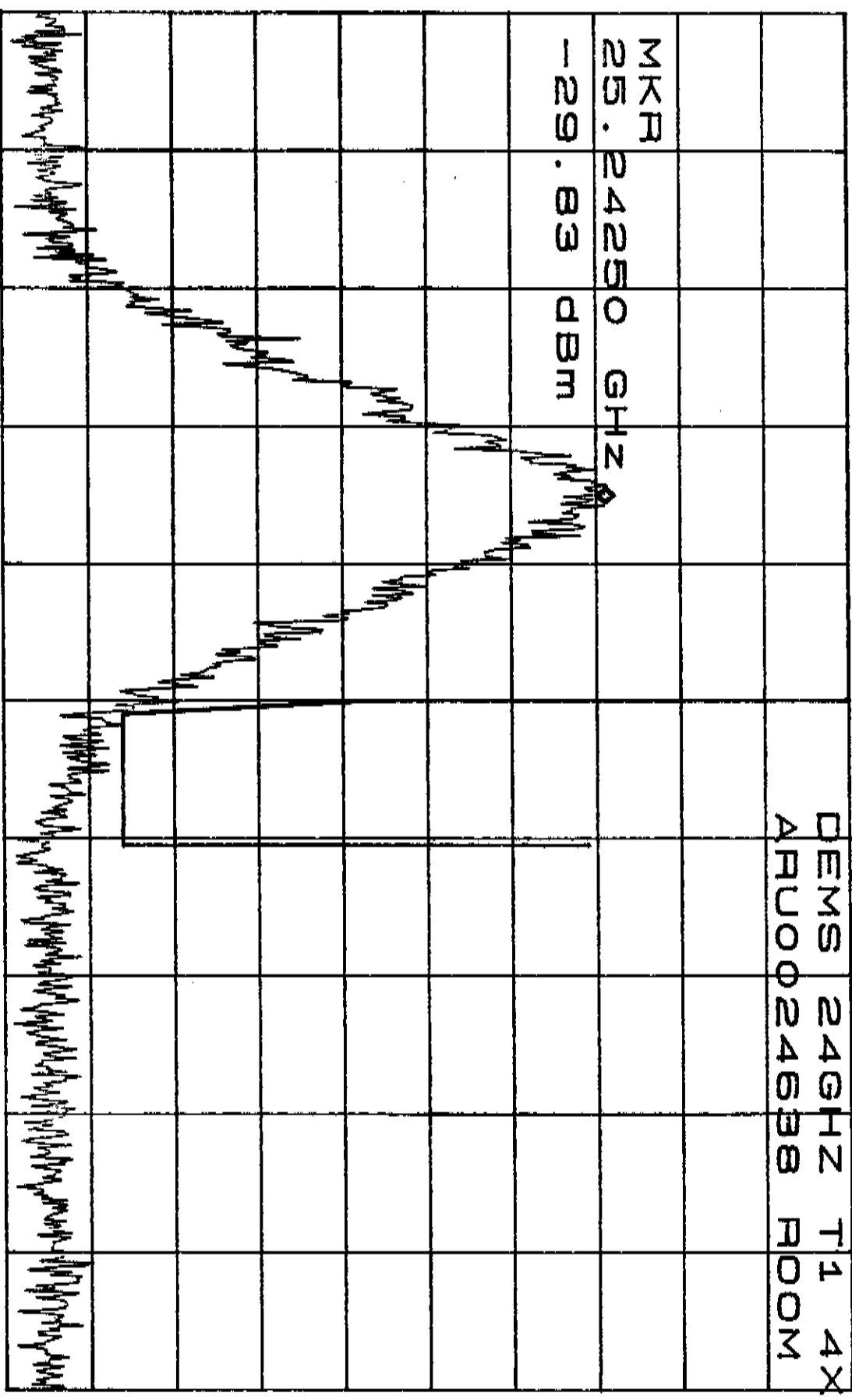
DEMS 24GHz T1 4X
 ARU0024687 ROOM



CENTER 24.25000GHz SPAN 50.00MHz
 *RBW 3.0kHz *VBW 10kHz SWP 14.0sec

Plot #1

ATTEN 10dB VAVG 4 MKR -29.83dBm
 RL 0dBm 10dB/ 25.24250GHZ

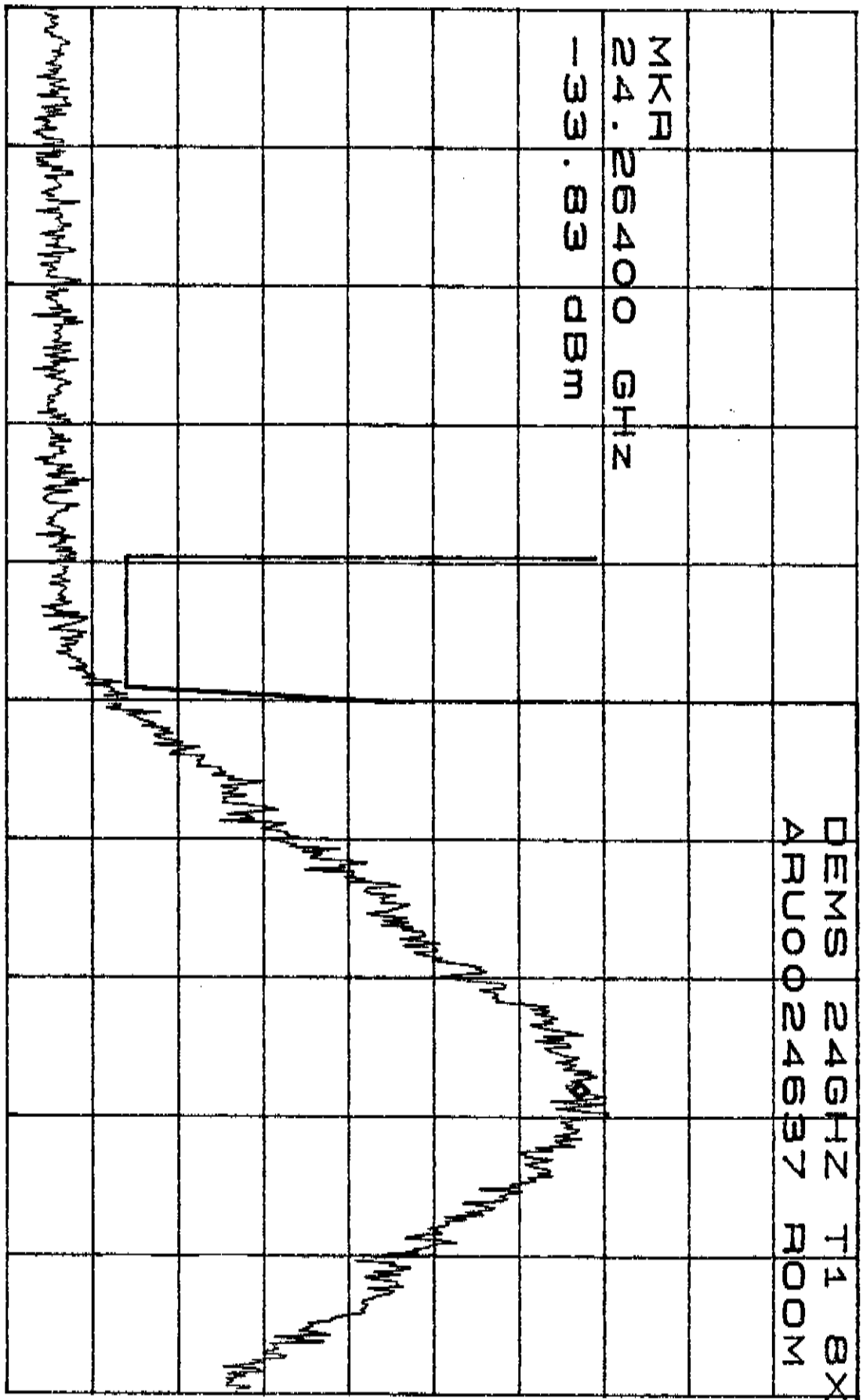


CENTER 25.25000GHZ SPAN 50.00MHZ
 *RBW 3.0KHZ *VBW 10KHZ SWP 14.0sec

PLOT #2

ATTEN 10dB VAVG 8 MKF -33.83dBm
 RL 0dBm 10dB/ 24.26400GHz

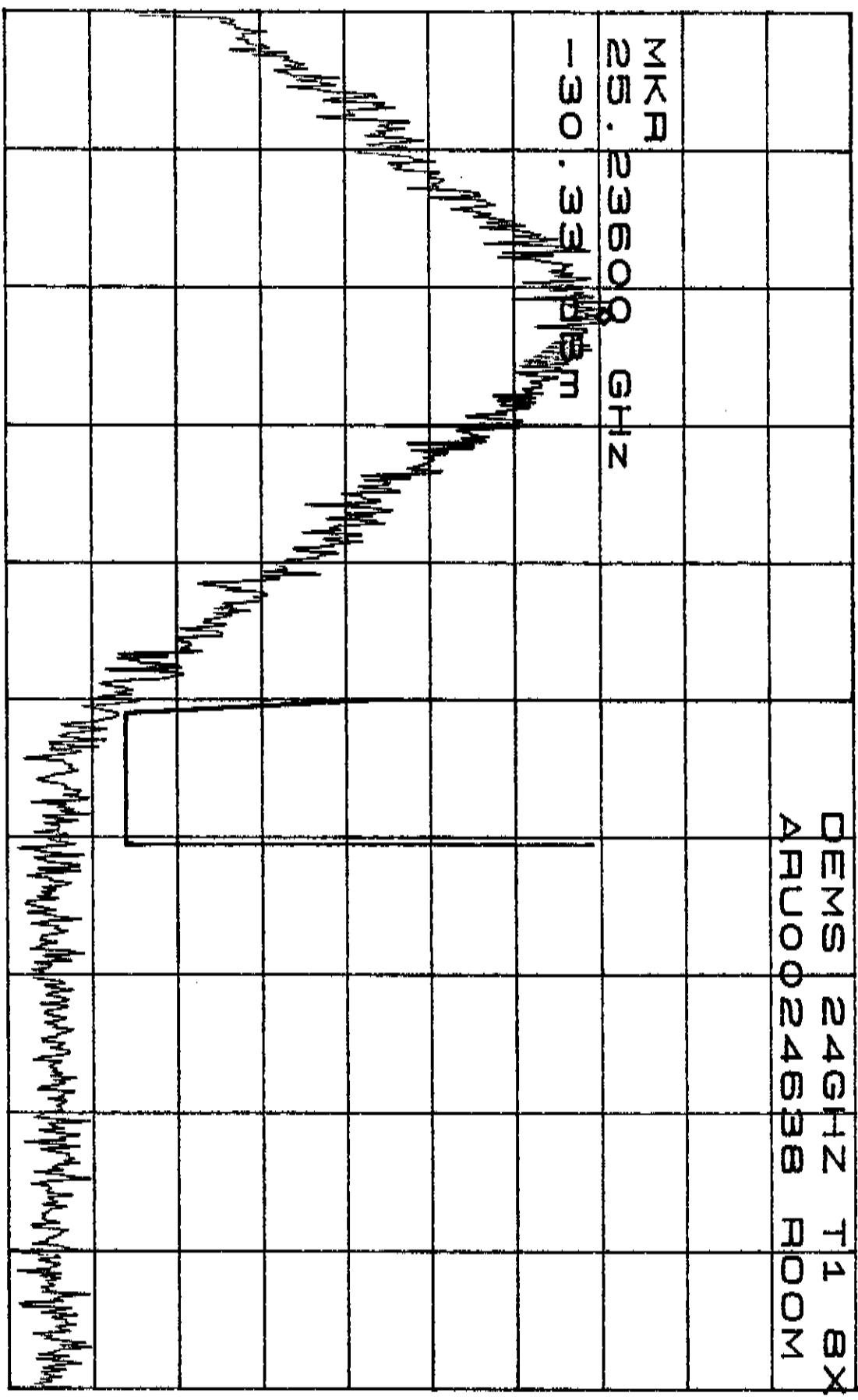
DEMS 246HZ T1 8X
 ARU0024637 ROOM



CENTER 24.250000GHz SPAN 50.00MHz
 *RBW 3.0kHz *VBW 10kHz SWP 14.0sec

ATTEN 10dB VAVG 4 MKR -30.33dBm
 RL 0dBm 10dB/ 25.23600GHz

DEMS 24GHz T1 BX
 ARU0024638 ROOM



CENTER 25.25000GHz SPAN 50.00MHz
 *RBW 3.0kHz *VBW 10kHz SWP 14.0sec

Plot #4