

250C Spectrum

Federal Regulation 2.989 occupied bandwidth for the 250C Meteorological Radar.

Pulse Width = 0.8 μ sec

Pulse Rate Frequency = 1140

Frequency = 5600 MHz

Major Lobe Width = 5.0 MHz

Minor Lobe Width = 2.5 MHz

Lobe Area = $\frac{1}{2}$ Lobe Width ($1/\text{LOG}^{-1}$ dB/10)

A6 through A6'' = 2.6369

Mean Radiated Power = 2.6369 * .99 = 2.6105

A2' through A2 = 2.6146

Occupied Bandwidth = 7.5 MHz

Emission Designator: 11M25PON

$$A6' \quad A = 1/2(2.5)(0.0017) = 0.0021$$

$$A5' \quad A = 1/2(2.5)(0.0025) = 0.0031$$

$$A4' \quad A = 1/2(2.5)(0.0033) = 0.0041$$

$$A3' \quad A = 1/2(2.5)(0.0053) = 0.0066$$

$$A2' \quad A = 1/2(2.5)(0.0109) = 0.0136$$

$$A1' \quad A = 1/2(2.5)(0.0372) = 0.0465$$

$$A \quad A = 1/2(5)(1) = 2.5$$

$$A1 \quad A = 1/2(2.5)(0.0347) = 0.0434$$

$$A2 \quad A = 1/2(2.5)(0.0089) = 0.0111$$

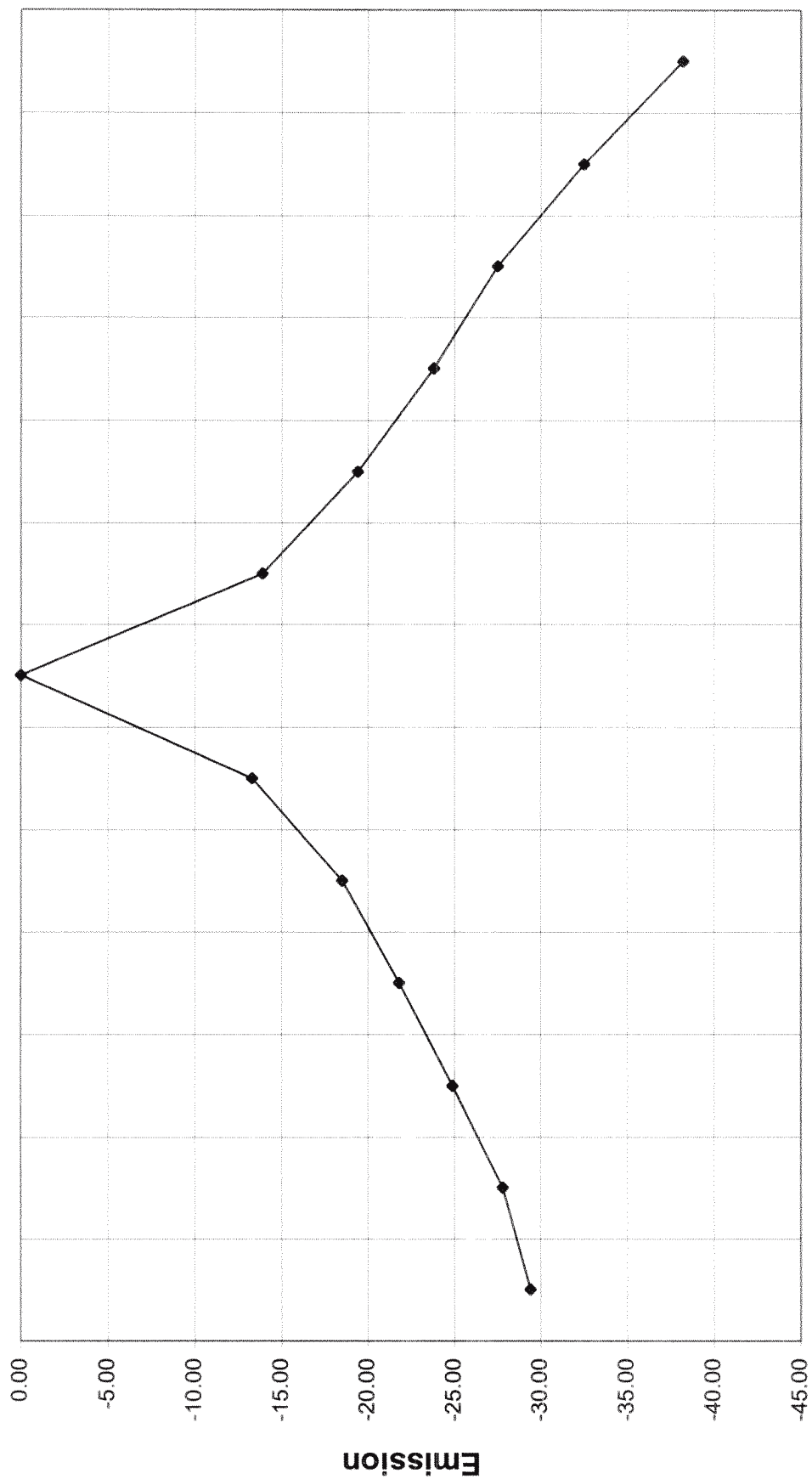
$$A3 \quad A = 1/2(2.5)(0.0032) = 0.004$$

$$A4 \quad A = 1/2(2.5)(0.0013) = 0.0016$$

$$A5 \quad A = 1/2(2.5)(0.0005) = 0.0006$$

$$A6 \quad A = 1/2(2.5)(0.0002) = 0.0002$$

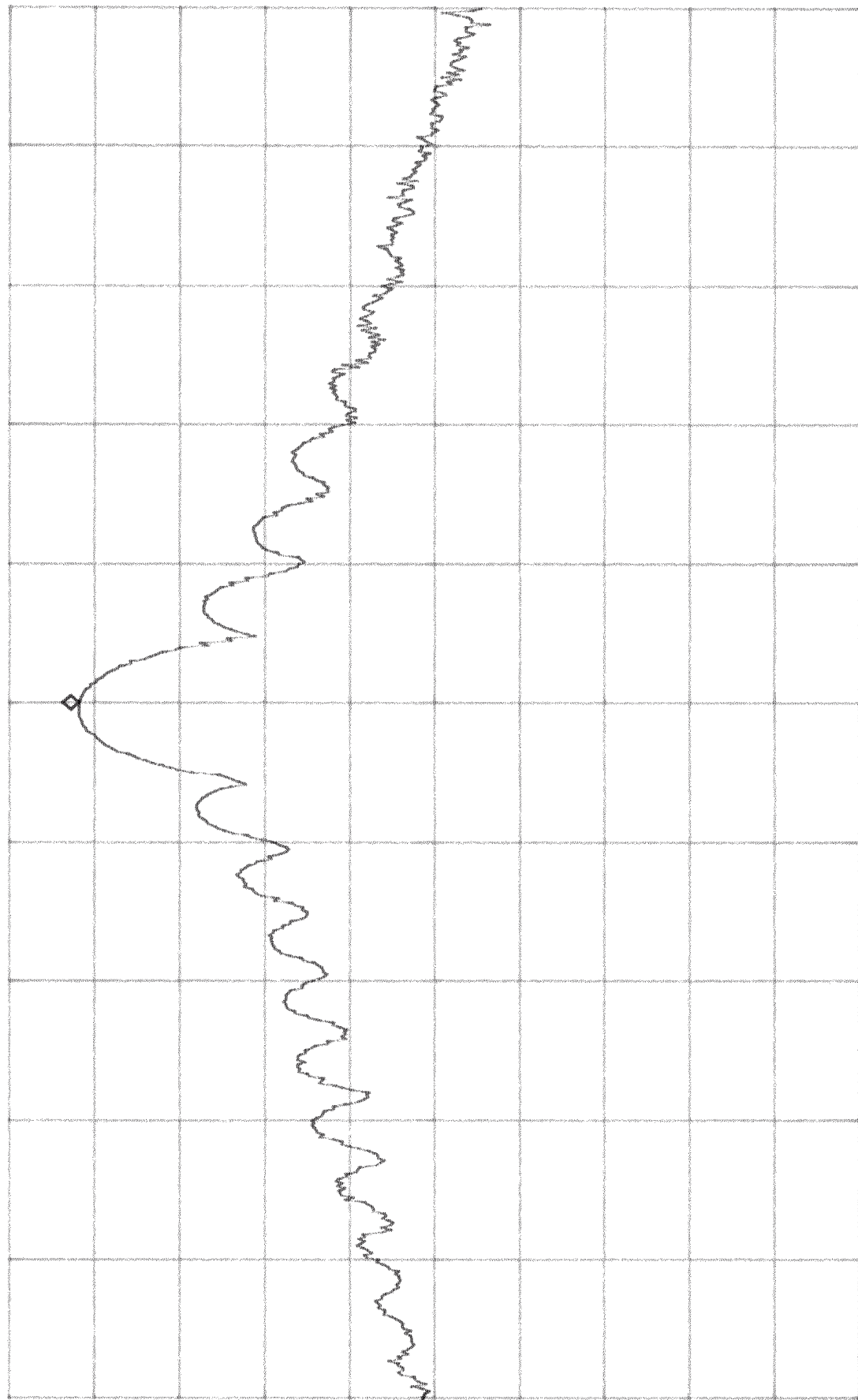
250C Spectrum



ATTEN 10dB
RL -2.6dBm

MKR -10.77dBm
5.61675GHz

10dB/



CENTER 5.61675GHz
RBW 300KHz

SPAN 20.00MHz
*SWP 800ms