

250C Spectrum

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

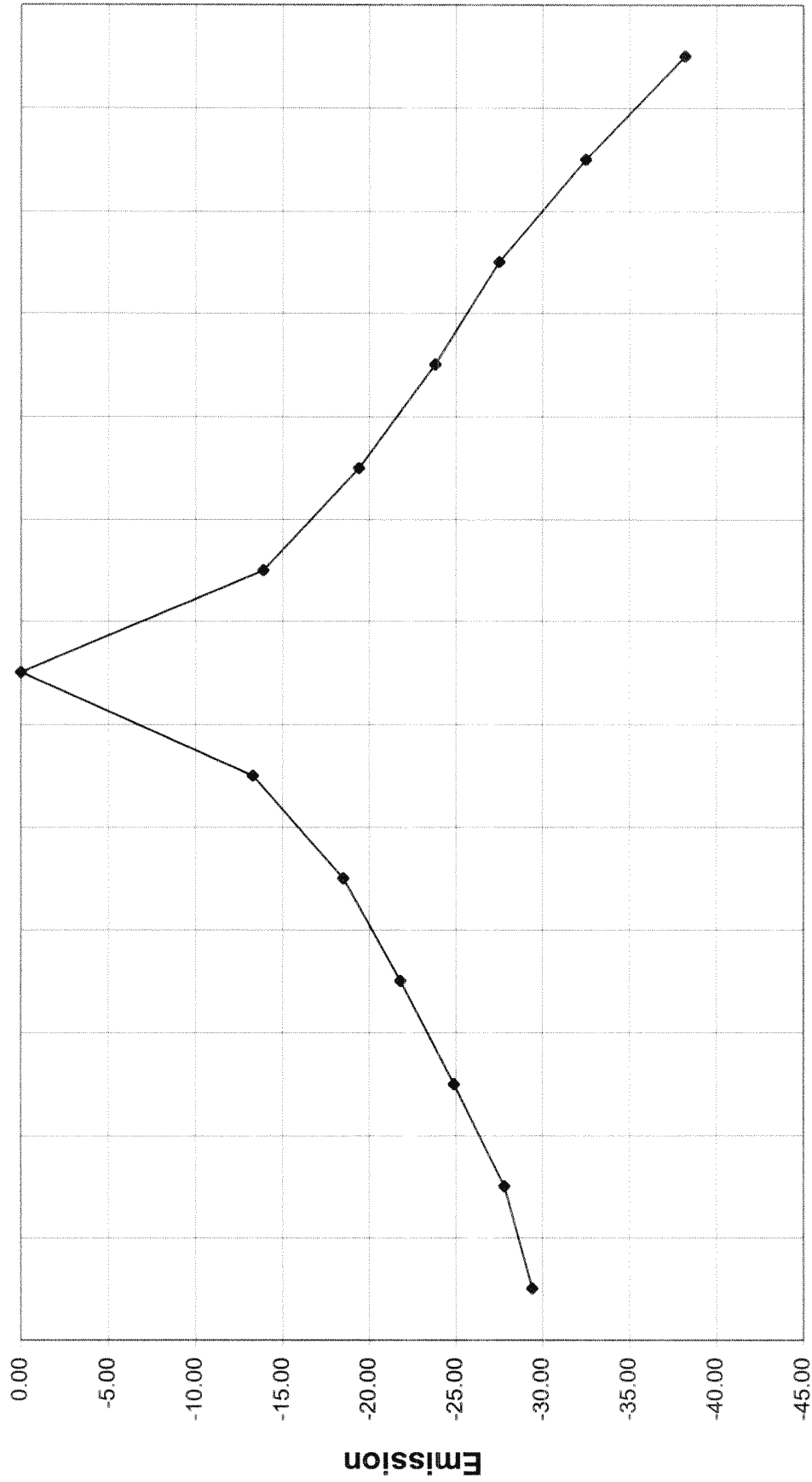
Pulse Width = 0.8 μ sec
Pulse Rate Frequency = 1140
Frequency = 5600 MHz

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' | $A = 1/2(2.5)(0.0017) = 0.0021$ |
| A5' | $A = 1/2(2.5)(0.0025) = 0.0031$ |
| A4' | $A = 1/2(2.5)(0.0033) = 0.0041$ |
| A3' | $A = 1/2(2.5)(0.0053) = 0.0066$ |
| A2' | $A = 1/2(2.5)(0.0109) = 0.0136$ |
| A1' | $A = 1/2(2.5)(0.0372) = 0.0465$ |
| A | $A = 1/2(5)(1) = 2.5$ |
| A1 | $A = 1/2(2.5)(0.0347) = 0.0434$ |
| A2 | $A = 1/2(2.5)(0.0089) = 0.0111$ |
| A3 | $A = 1/2(2.5)(0.0032) = 0.004$ |
| A4 | $A = 1/2(2.5)(0.0013) = 0.0016$ |
| A5 | $A = 1/2(2.5)(0.0005) = 0.0006$ |
| A6 | $A = 1/2(2.5)(0.0002) = 0.0002$ |

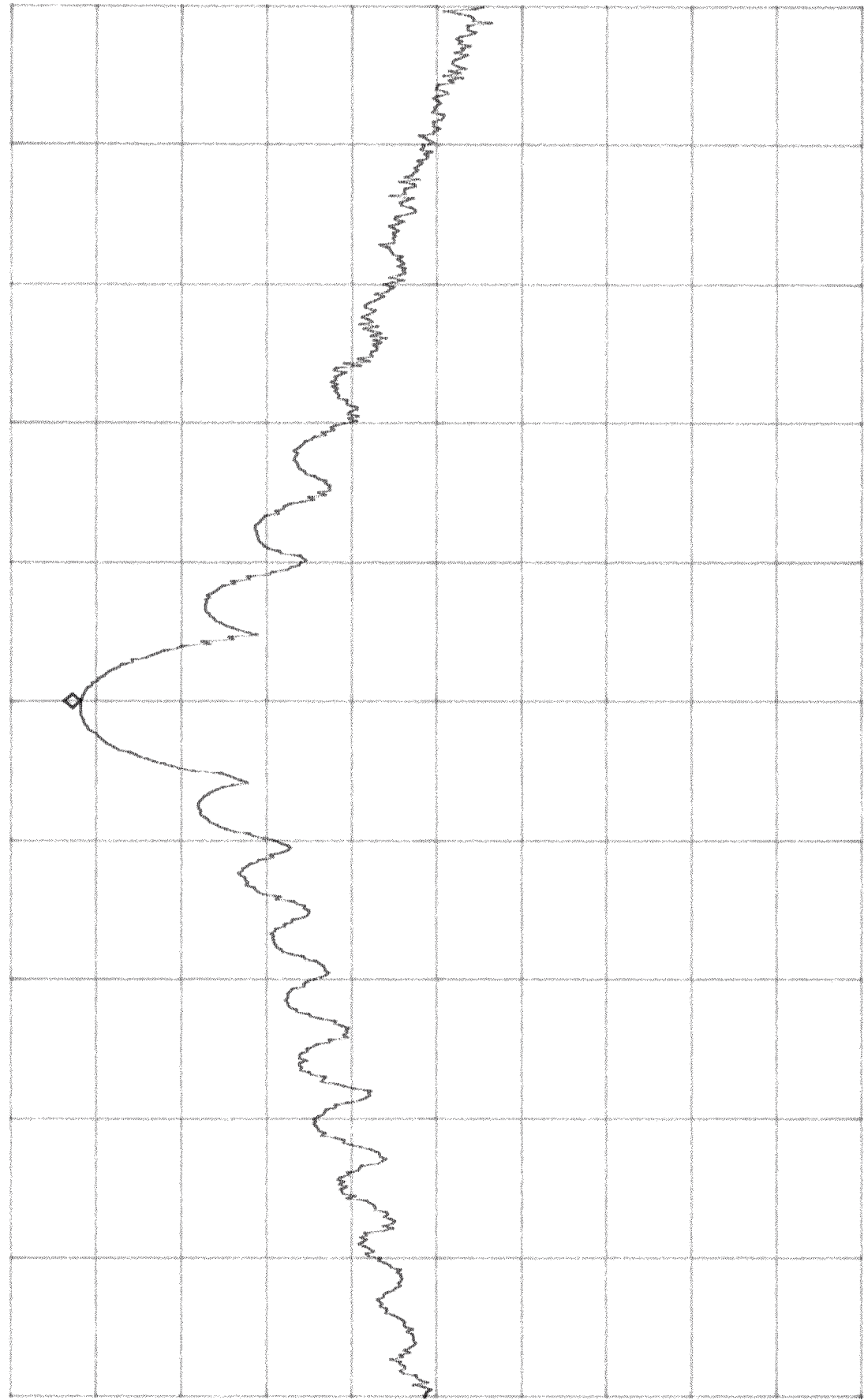
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ATTEN 10dB
RL -2.6dBm

MKR -10.77dBm
5.61675GHz

10dB/



CENTER 5.61675GHZ
RBW 300KHZ
SPAN 20.00MHZ
VBW 300KHZ
*SWP 800ms