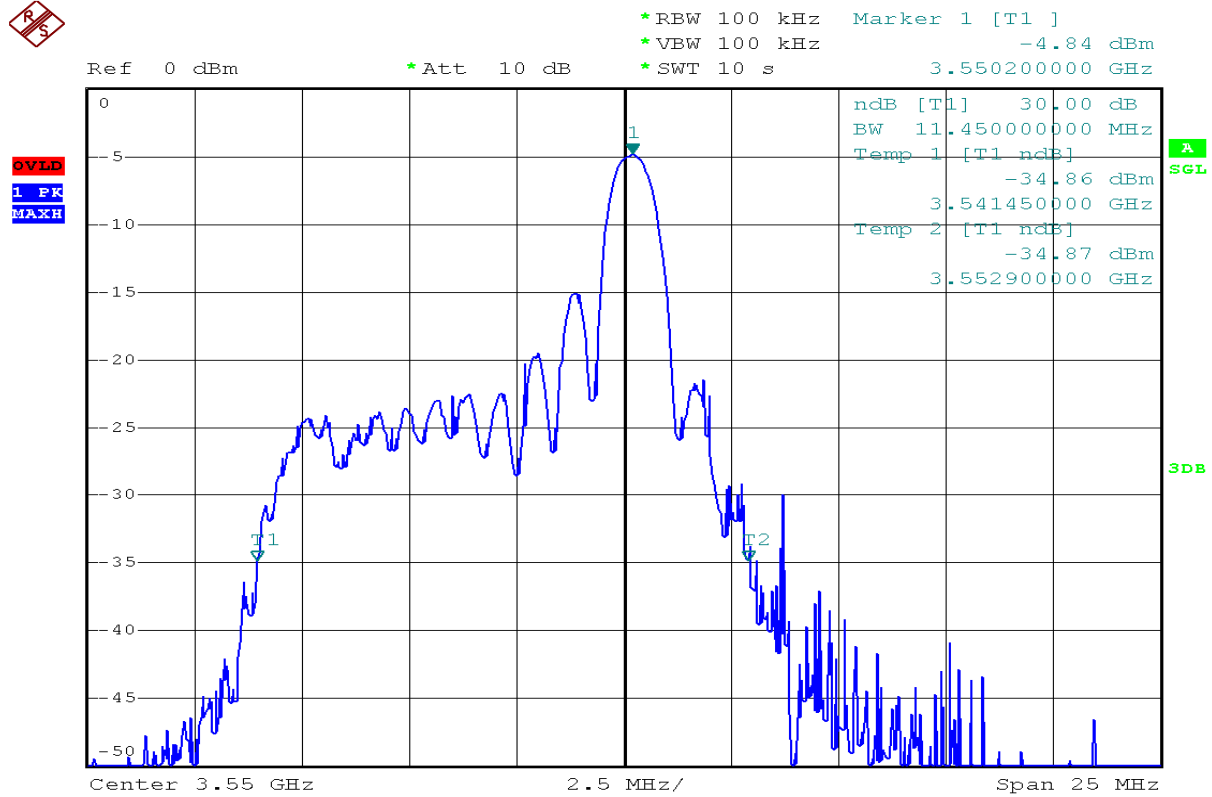


## **VHDD-1000S OCCUPIED SPECTRUM TEST**

## 7.0 Occupied Spectrum

The worst case occupied spectrum occurs with the 0.8μs pulse width selection as depicted in Figure 6, plot #1.



Date: 7.JAN.2009 20:25:26

## VHDD-1000S OCCUPIED BANDWIDTH, Worst Case

IAW CFR 2.989,  
Occupied Bandwidth for VHDD-1000S  
Meteorological Radar

Lobe Area = ½ Lobe Width

$$\left[ \frac{1}{\log^{-1} \frac{db}{10}} \right]$$

Pulse Width = .8μs  
PRF = 250Hz  
Frequency = 3550MHz

Major Lobe Width = 1.6MHz  
Minor Lobe Width = .8MHz

Occupied Bandwidth = 11.45MHz  
Emission Designator = 11M4P0N