Technical Data Sheet: **Antennas Direct Micron XG Antenna**

Illustration 1: Micron

Physical Data:

Dimensions:	Height = 10 in..	Width = 11 in.	Depth = 4.5 in.
Weight:	TBD lbs.		

Electrical Data:

Band:	UHF	470 to 698 MHz	Channels 14 - 51
Impedance:	75 ohm		
Connector:	F-Male		

Performance Data:

Peak Gain:	4.35 dBi	@ 675 MHz
VSWR:	3.0 Max	470 to 698 MHz

Notes:

1. *Unless stated otherwise, all performance data computed using Remcom, Inc. X-FDTD 7.0 simulator.*
2. *Assumptions: PEC, free space, no balun. 300 Ohm transmission line reference.*
3. *Gain is specified dBi (isotropic) per IEEE definition. Balun and mismatch losses not included.*
4. *There are two common meanings for Front-to-Back Ratio (F/B). One specifies ratio as measured 180 degrees opposite boresight. The other, used by IEEE specifies the ratio of boresight gain to maximum gain in rear hemisphere. The IEEE definition is the most conservative. IEEE F/B values shown here are computed based on azimuth and elevation cuts provided in this document.*

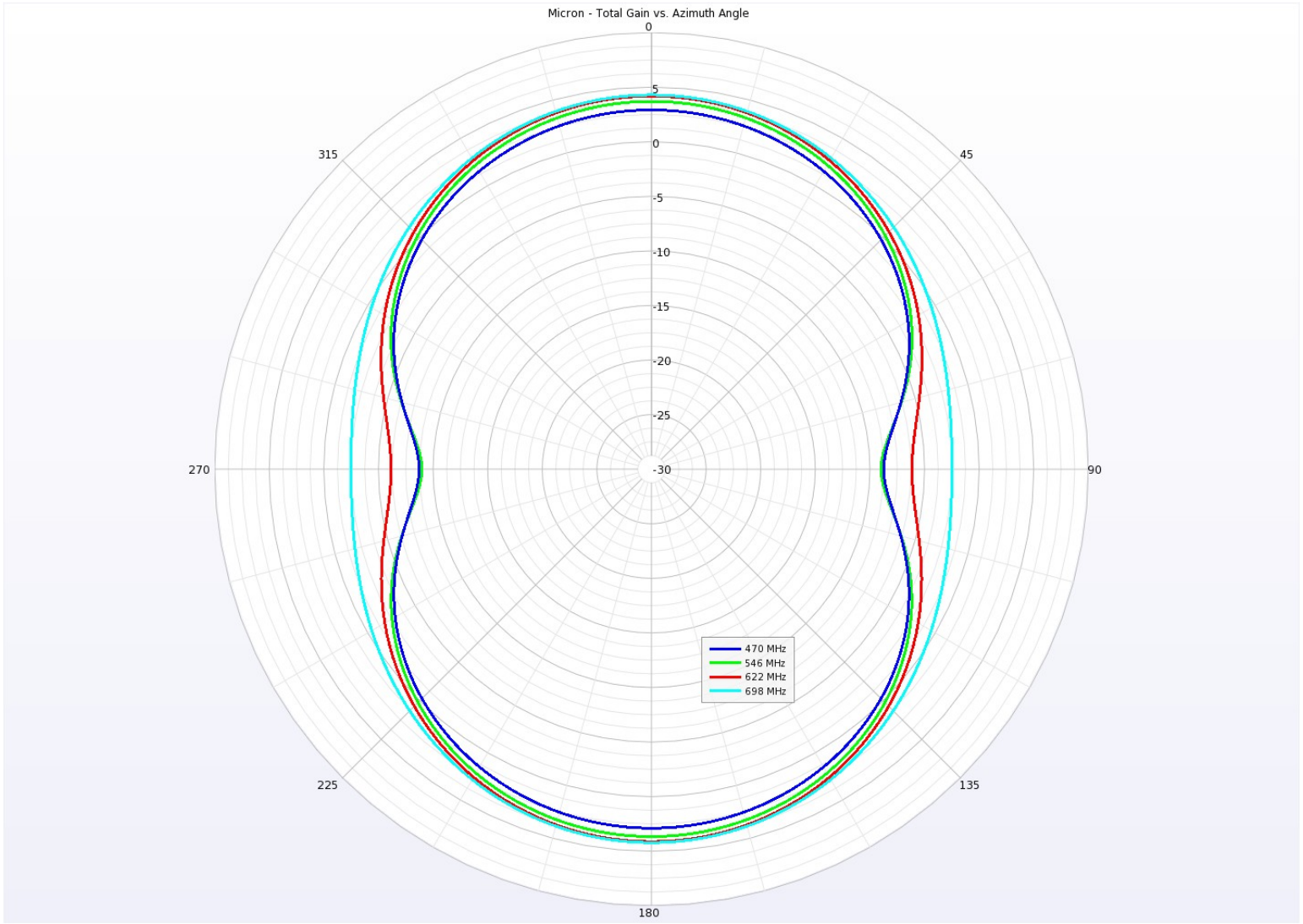

Illustration 2: Micron - Total gain versus azimuth angle.

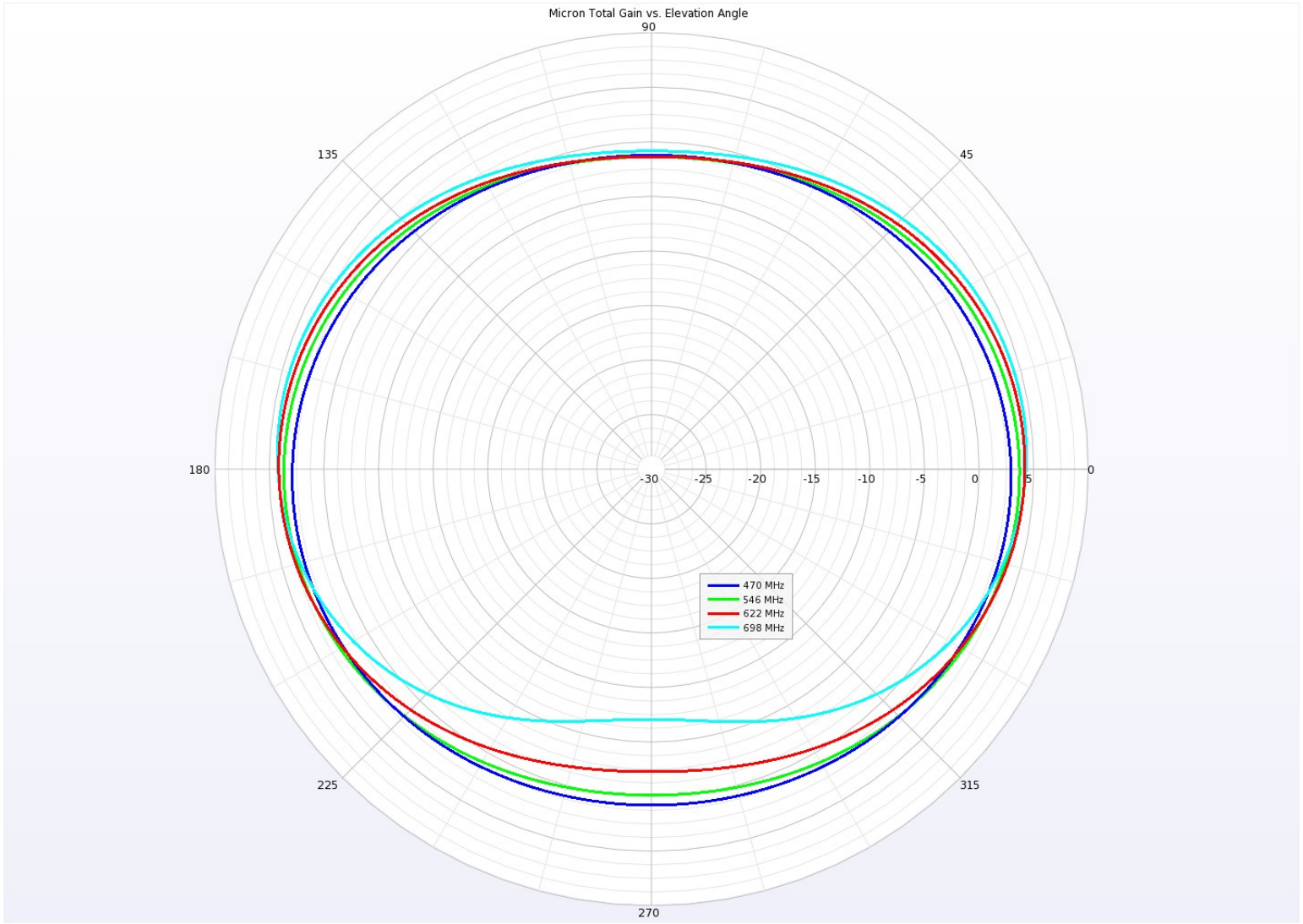

Illustration 3: Micron - Total Gain versus Elevation Angle.

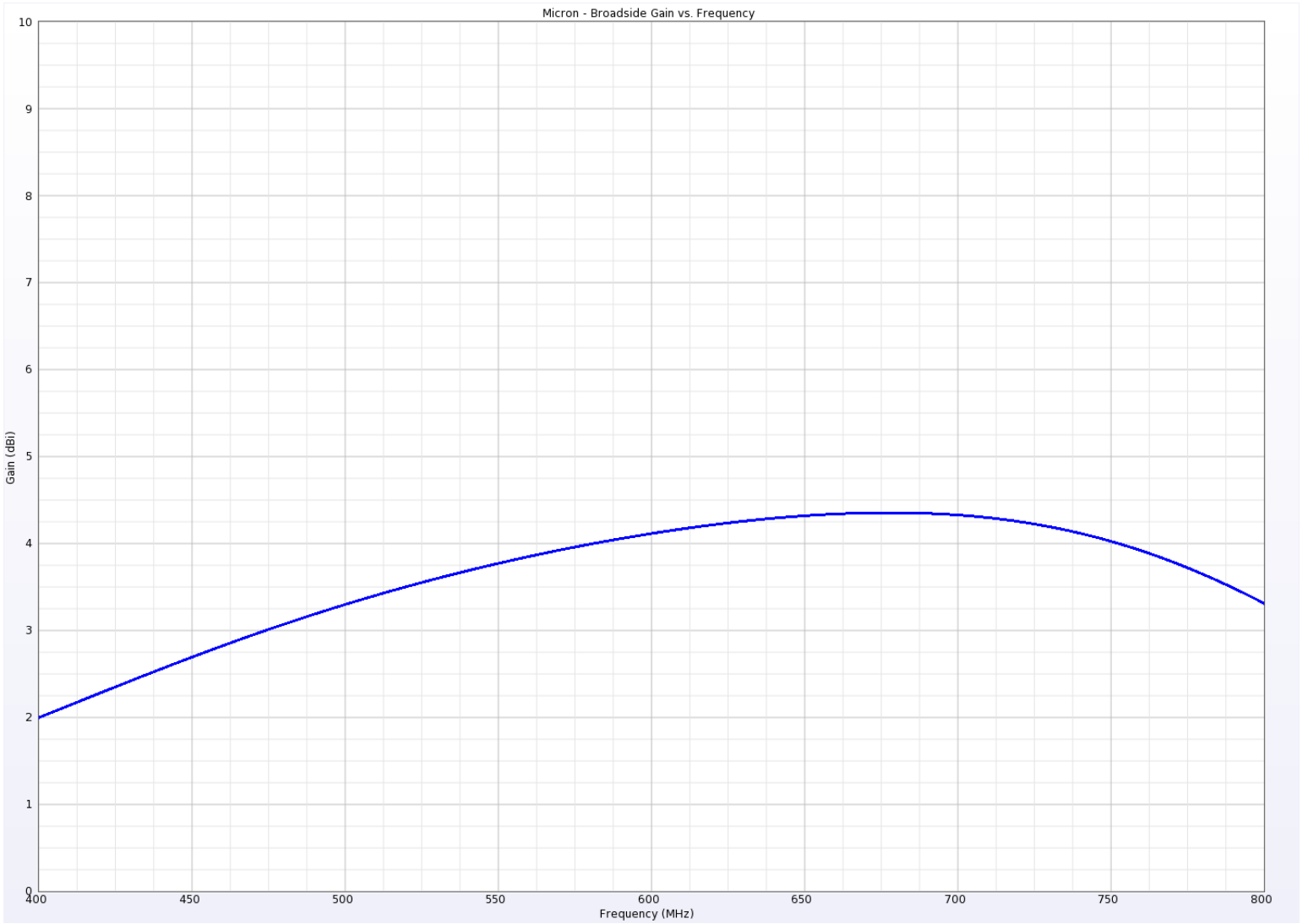

Illustration 4: Micron - Broadside gain versus frequency.

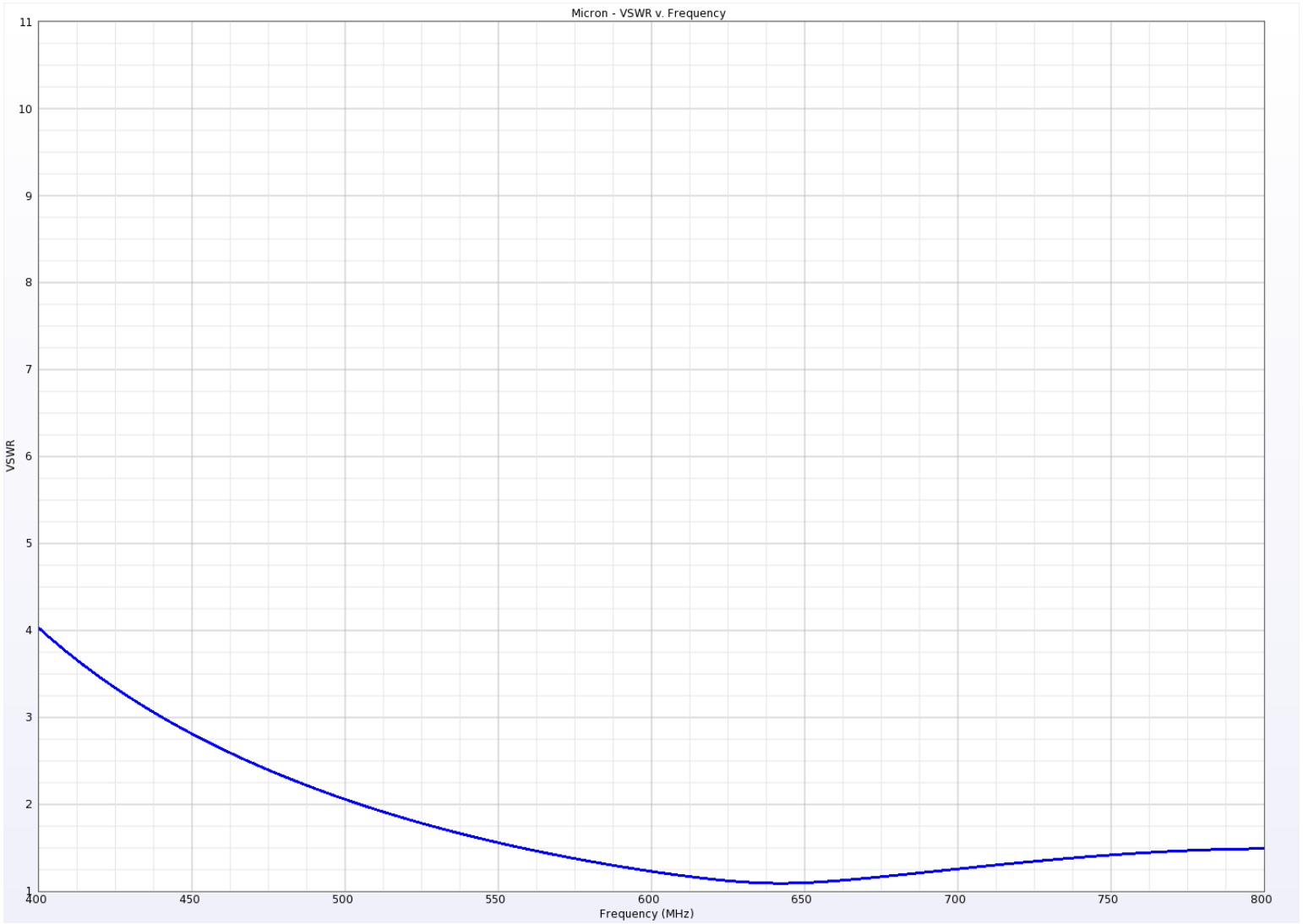

Illustration 5: Micron - Computed VSWR versus frequency. No balun. 300 ohm reference.

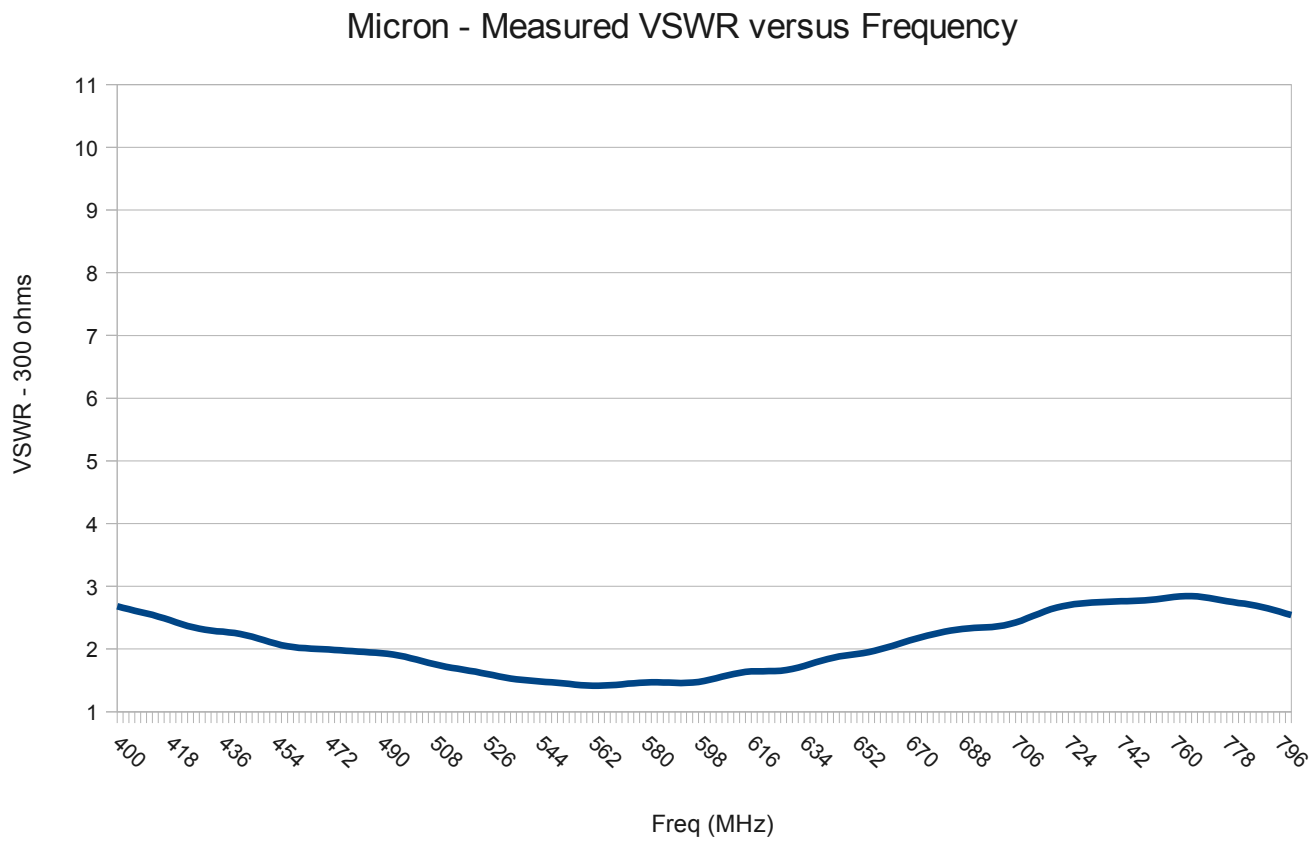

Illustration 6: Micron - VSWR versus Frequency measured using HP8510C VNA.