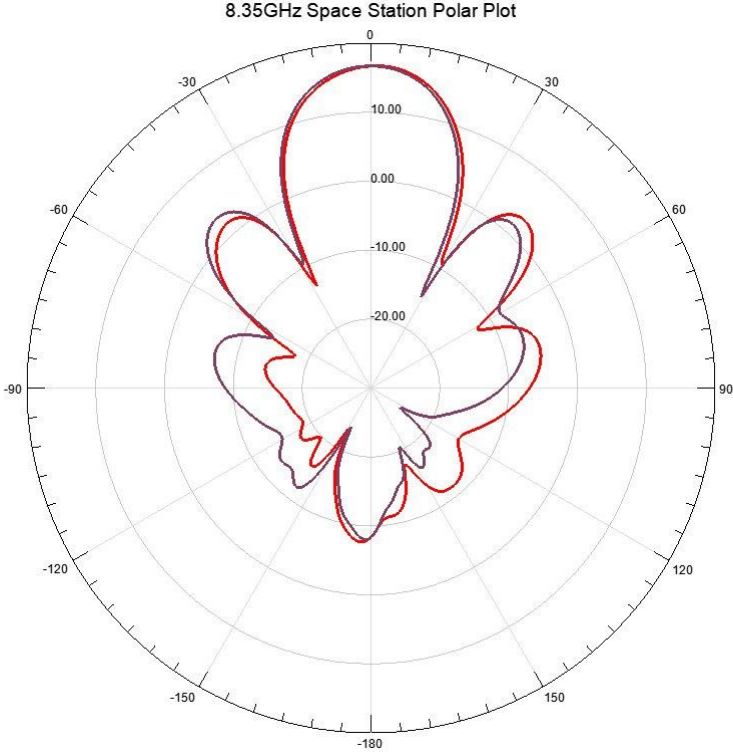


Applicant: University of Massachusetts Lowell
File Number: 0386-EX-CN-2019
Correspondence Reference Number: 48272

Below are the Transmitter Polar Plots for Earth Station and Space Station:

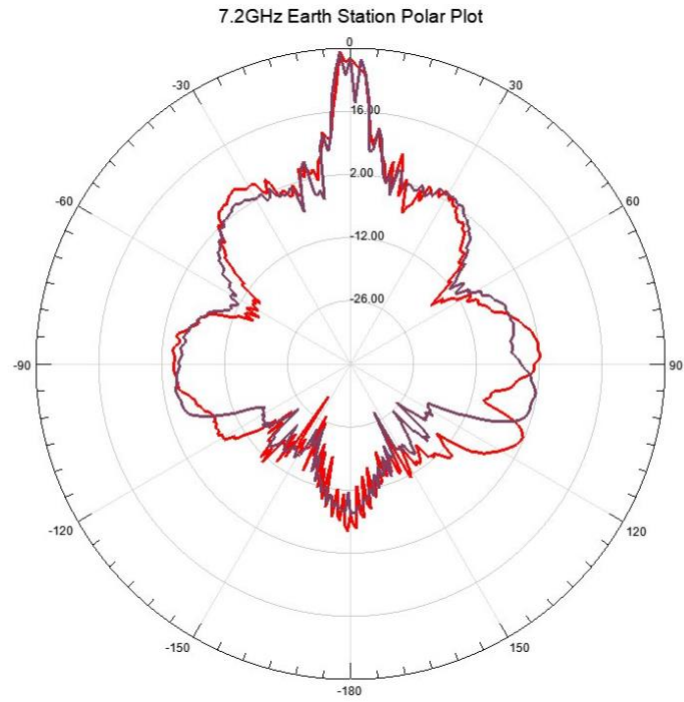
8.35 GHz Space Station Transmitter Polar Plot



U-Slot @ 7.75

Curve Info	
—	dB(GainTotal)
—	Setup 1 : LastAdaptive
—	Freq=8.35GHz' Phi=0deg'
—	dB(GainTotal)
—	Setup 1 : LastAdaptive
—	Freq=8.35GHz' Phi=90deg'

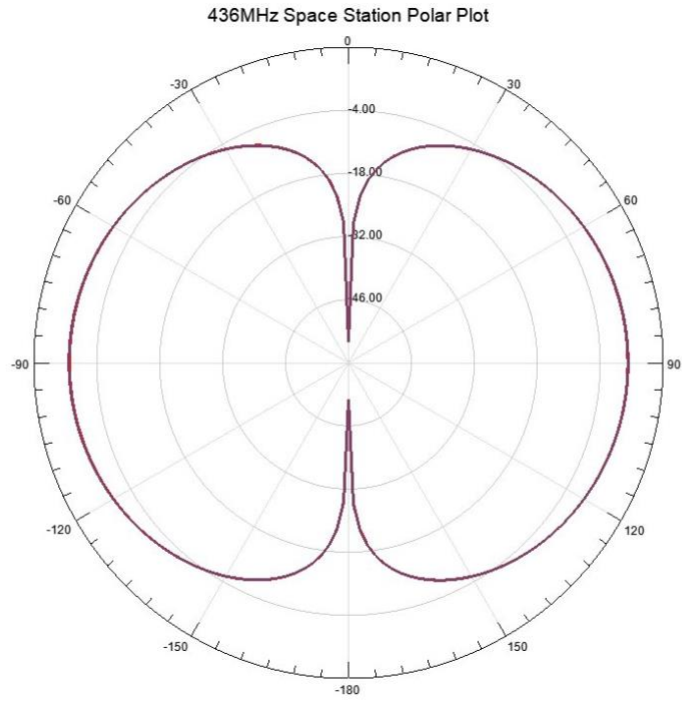
7.2 GHz Earth Station Transmitter Polar Plot



HFSSDesign1 ▲

Curve Info	
—	dB(GainTotal)
Setup1 : LastAdaptive	
Freq=7.2GHz' Phi=0deg' rH=8.22mm'	
—	dB(GainTotal)
Setup1 : LastAdaptive	
Freq=7.2GHz' Phi=90deg' rH=8.22mm'	

435-438 MHz Space Station Transmitter Polar Plot:



Dipole@425MHz ▲

Curve Info	
—	dB(GainTotal)
Comp :	LastAdaptive
f_res=0.436GHz' Freq=0.436GHz' Phi=0deg'	
—	dB(GainTotal)
Comp :	LastAdaptive
f_res=0.436GHz' Freq=0.436GHz' Phi=90deg'	

435-438 MHz Space Station Transmitter Polar Plot:

