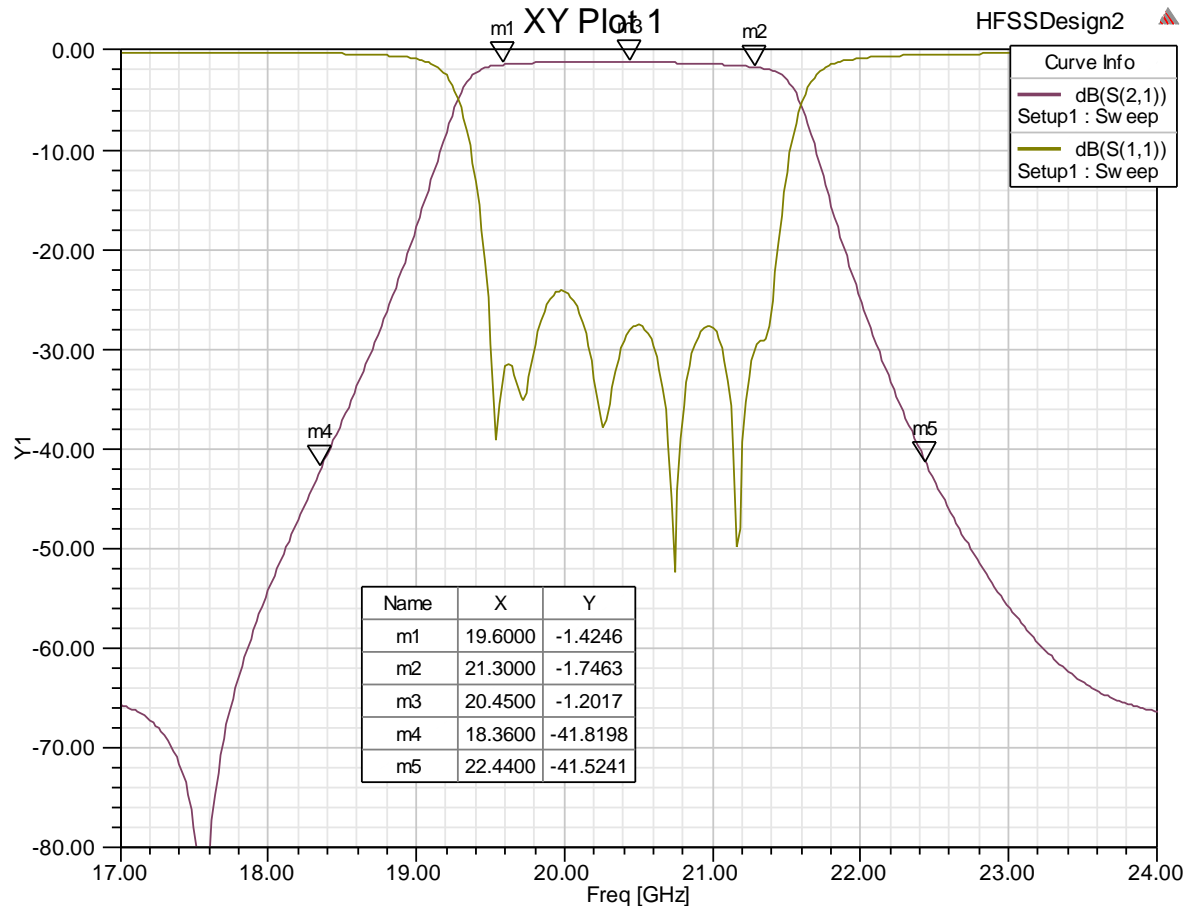


## Simulated Data in HFSS



Parameters	
Pass-Band Frequency	19.6-21.3 GHz
Insertion Loss	1.3dB @ Fc
Insertion Loss Flatness	<0.6dB
Return Loss	>20dB
40dB Rejection Frequency	18.36 GHz & 22.44 GHz
Material	Alumina er=9.9
Board Thickness	0.015 in
Metallization	TiW/Au 0.2 mil thick
Cavity Above Substrate	0.150 in

- Actual hardware data may be different from the simulated data depending on the material quality, accuracy of the dielectric constant & thickness, metallization type, etching tolerance, housing material, method of substrate attachment to the housing, and any mismatch between the filter and the interface port of the measuring device.