

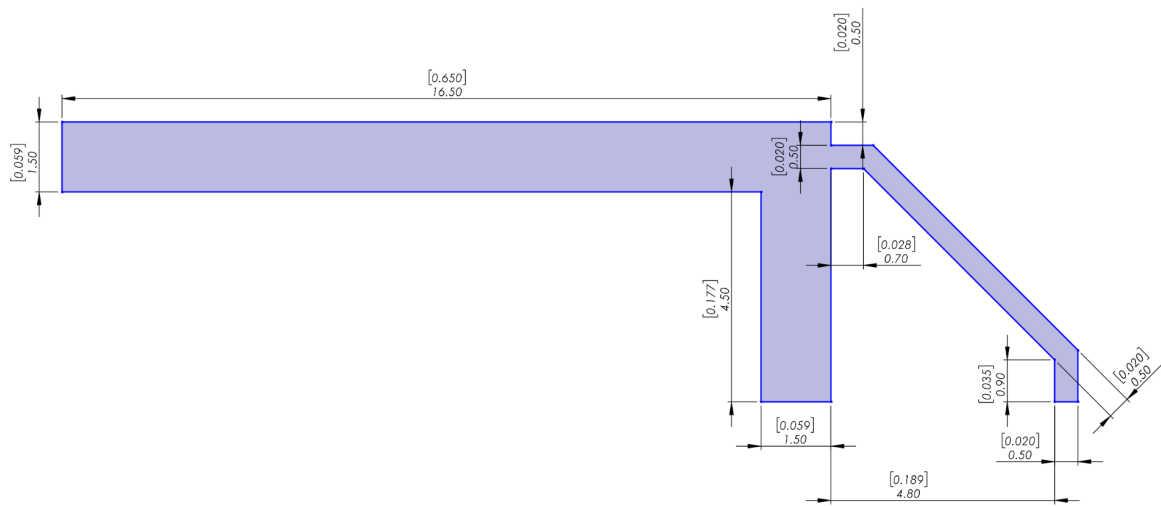
1. Electrical Characteristics

Item	Specification
Type	F-Antenna
Central Frequency	2.441 GHz
Bandwidth	83.5 MHz
Gain	2
Polarization	Linear
VSWR	1.61
Azimuth Bandwidth	Omni-directional
Impedance	50 Ω
Rated Power (max)	8 dBm
Model	2.4GHz PCB ANT
Operational Temperature	-40°C - 100°C

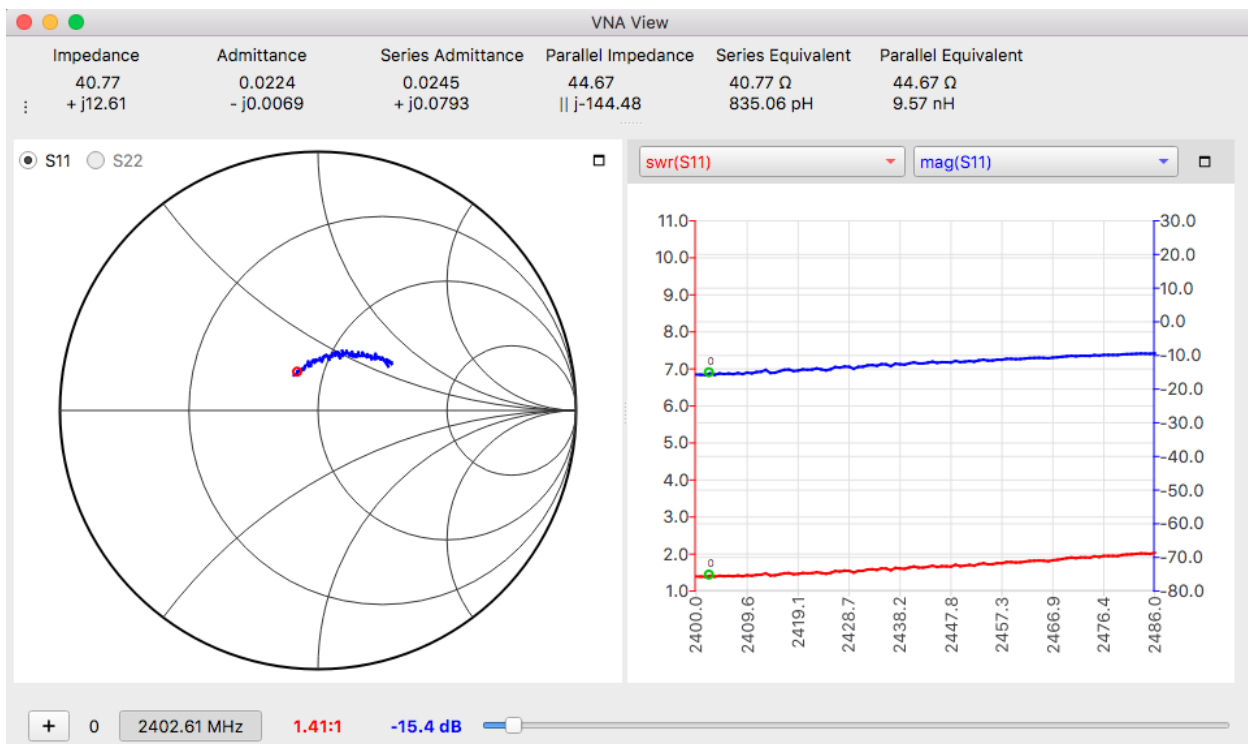
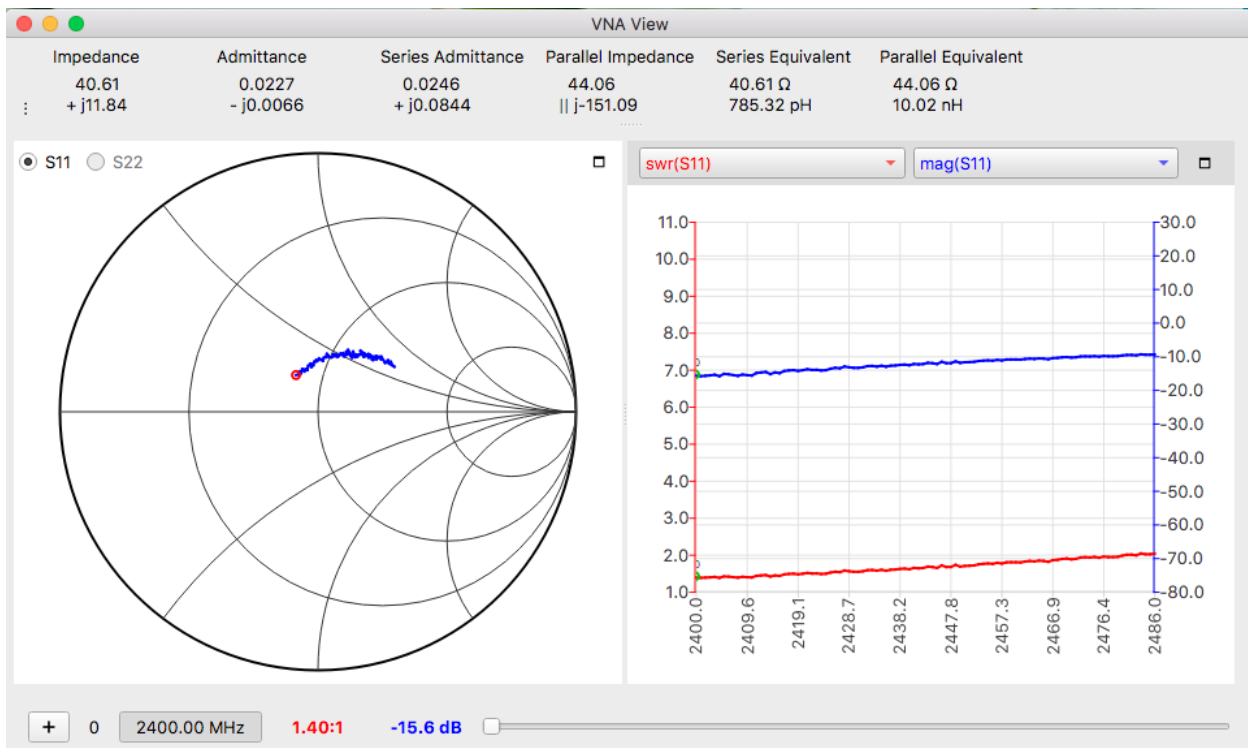
Manufacturer: Revvo Technologies, Inc

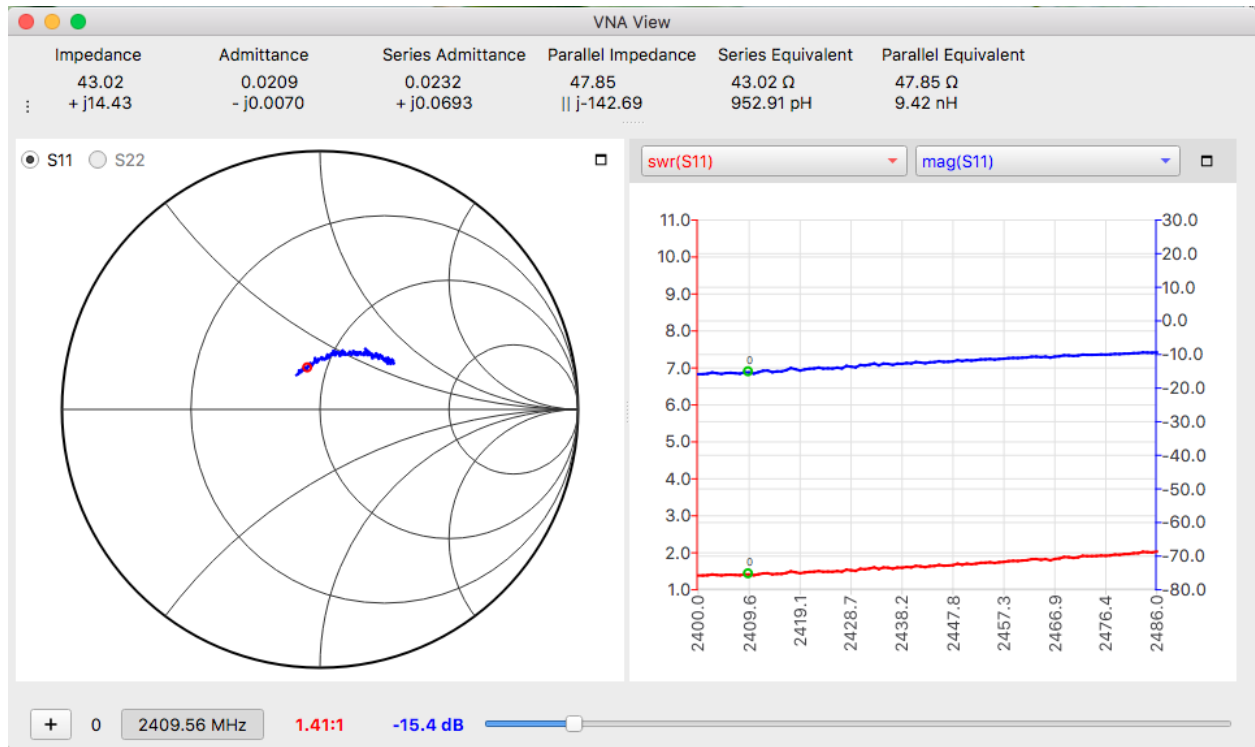
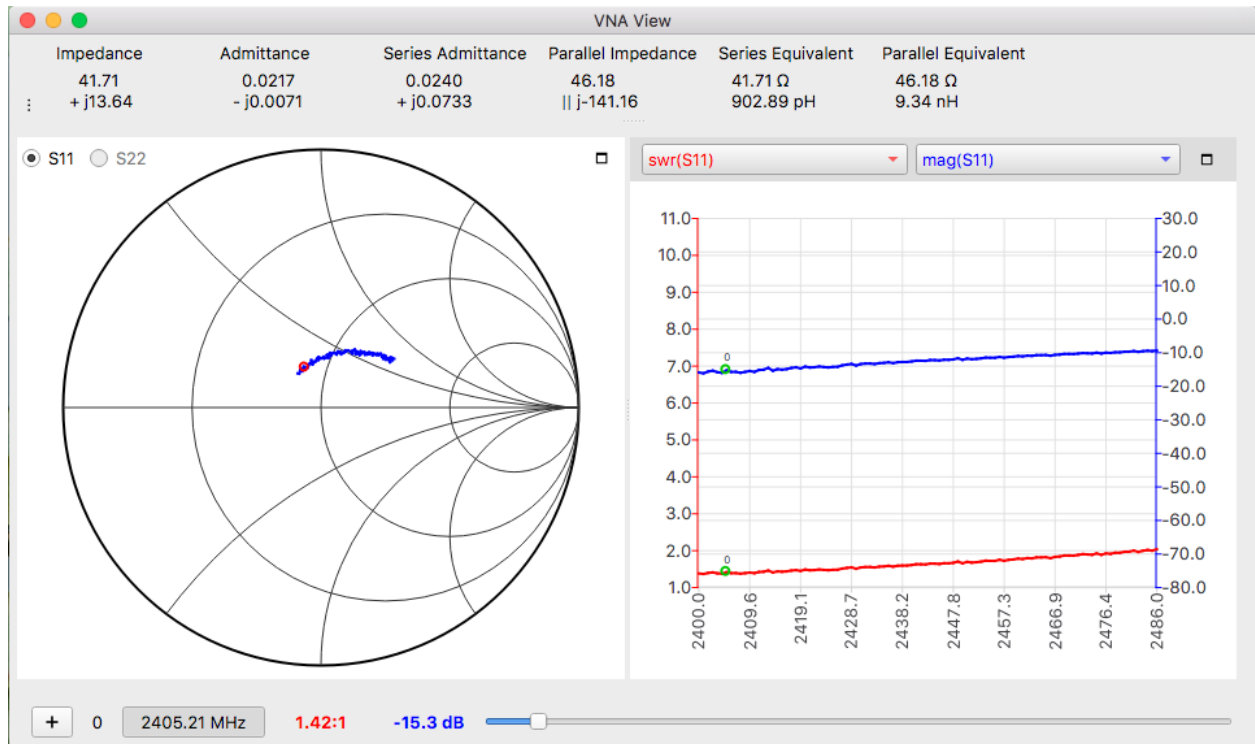
Address: 800 Concar Drive, San Mateo, CA 94402 USA

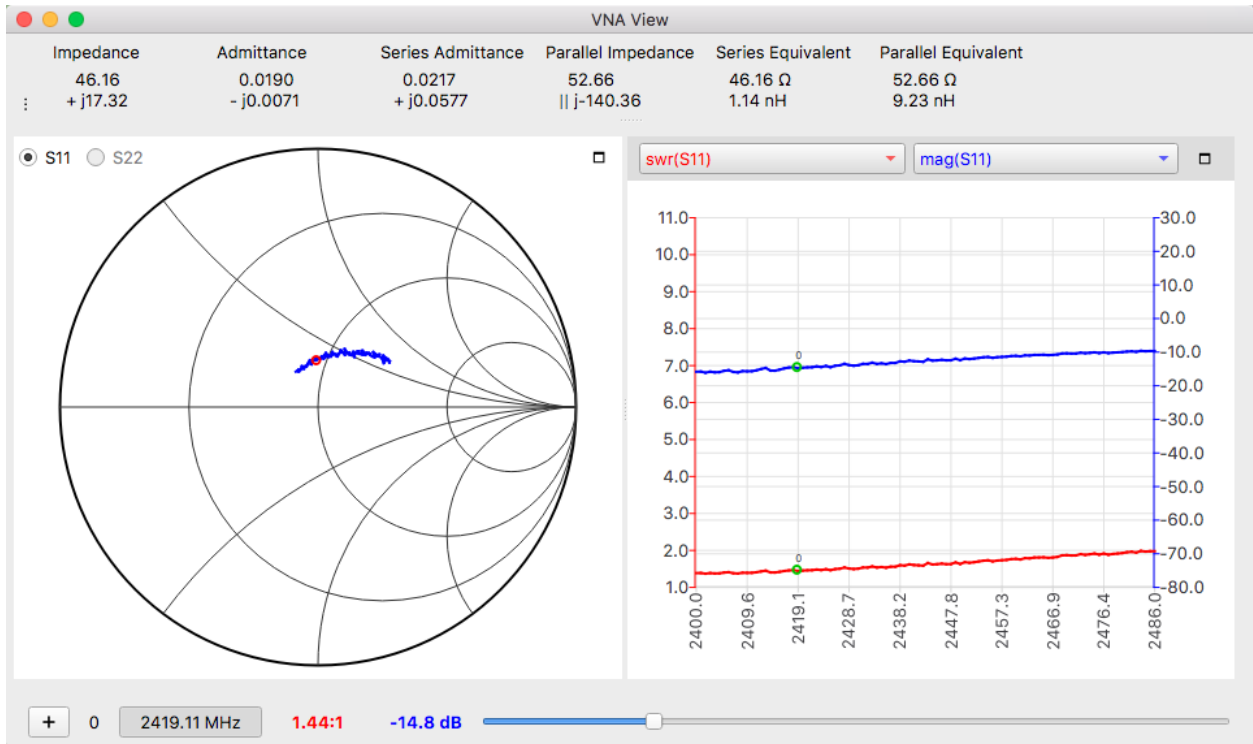
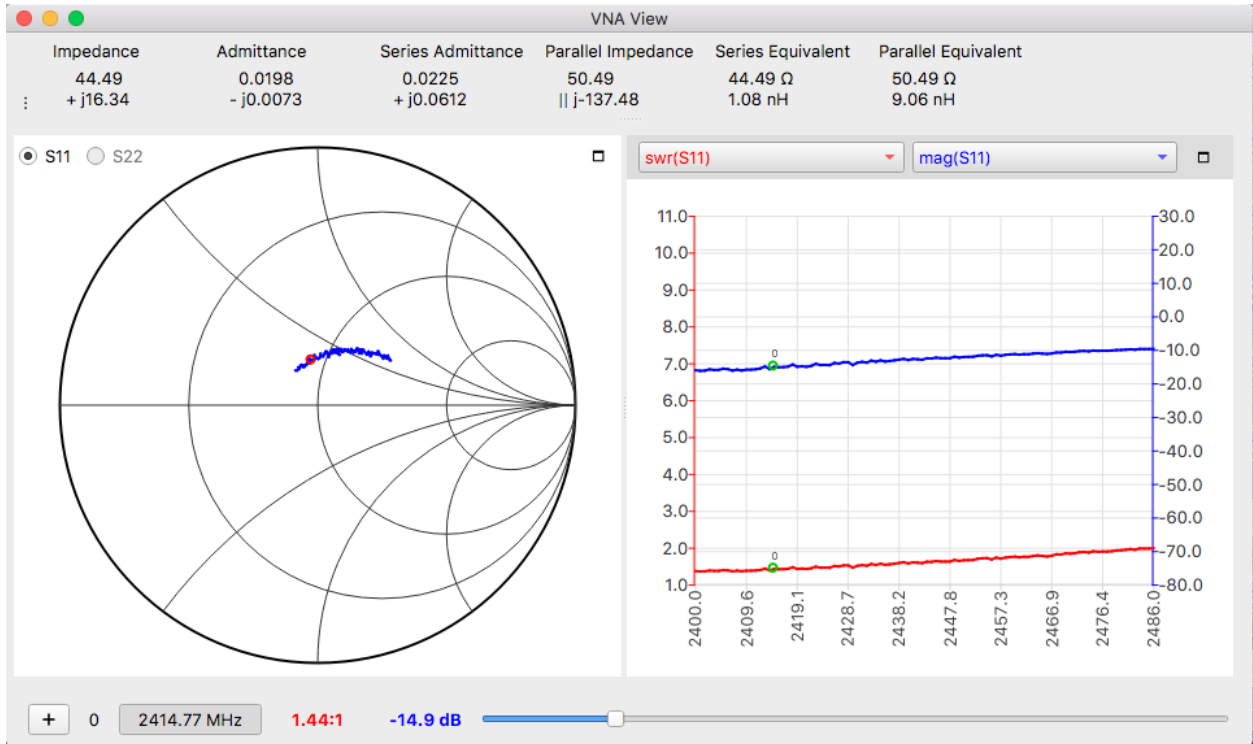
2. Dimensions

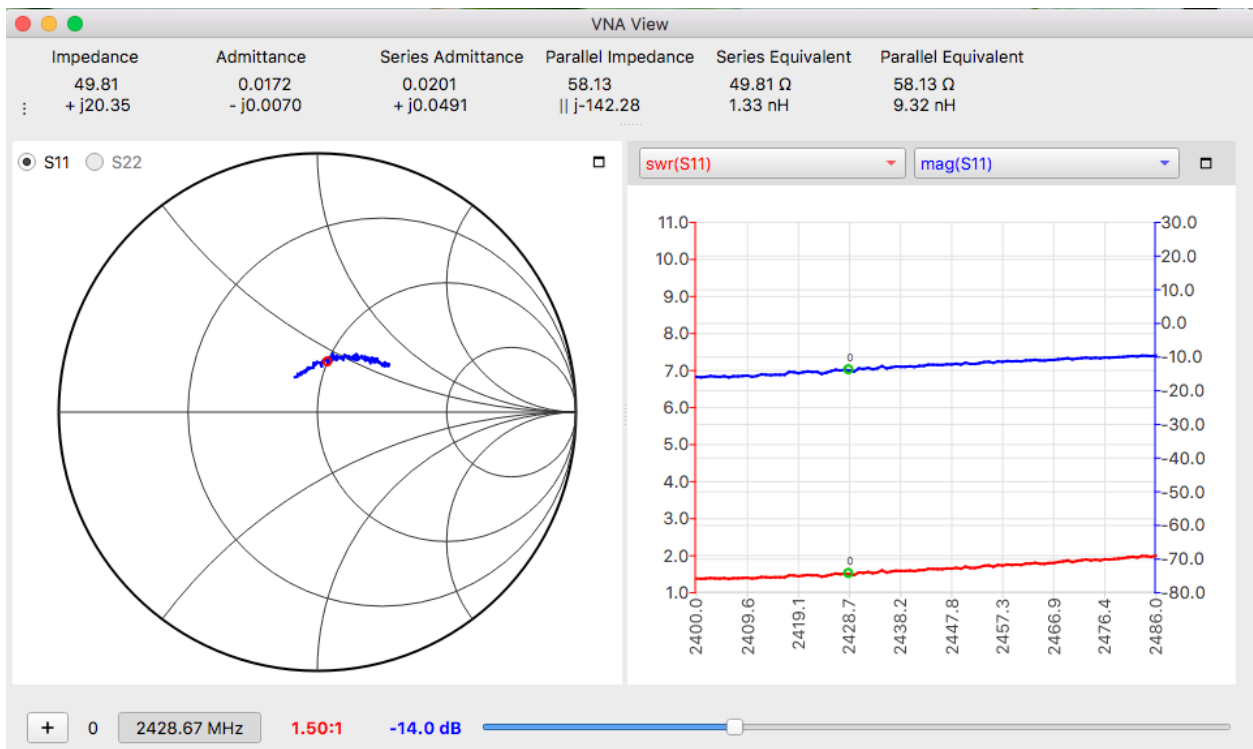
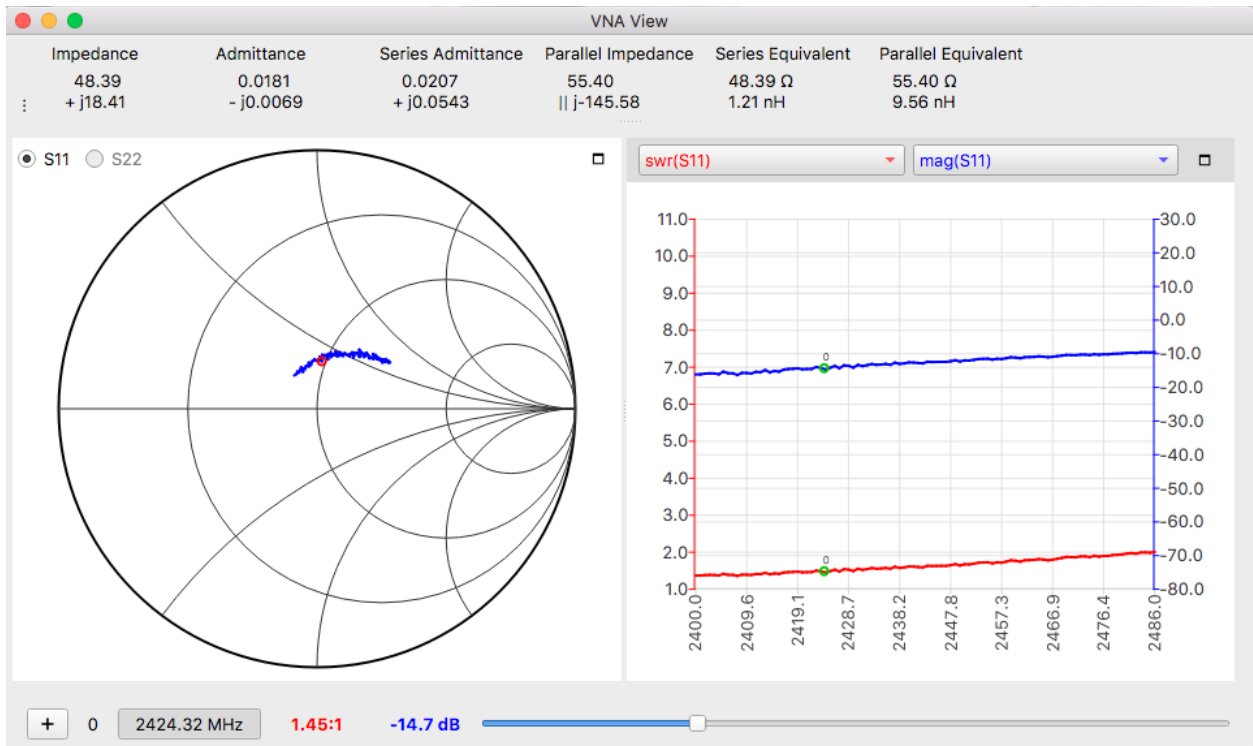


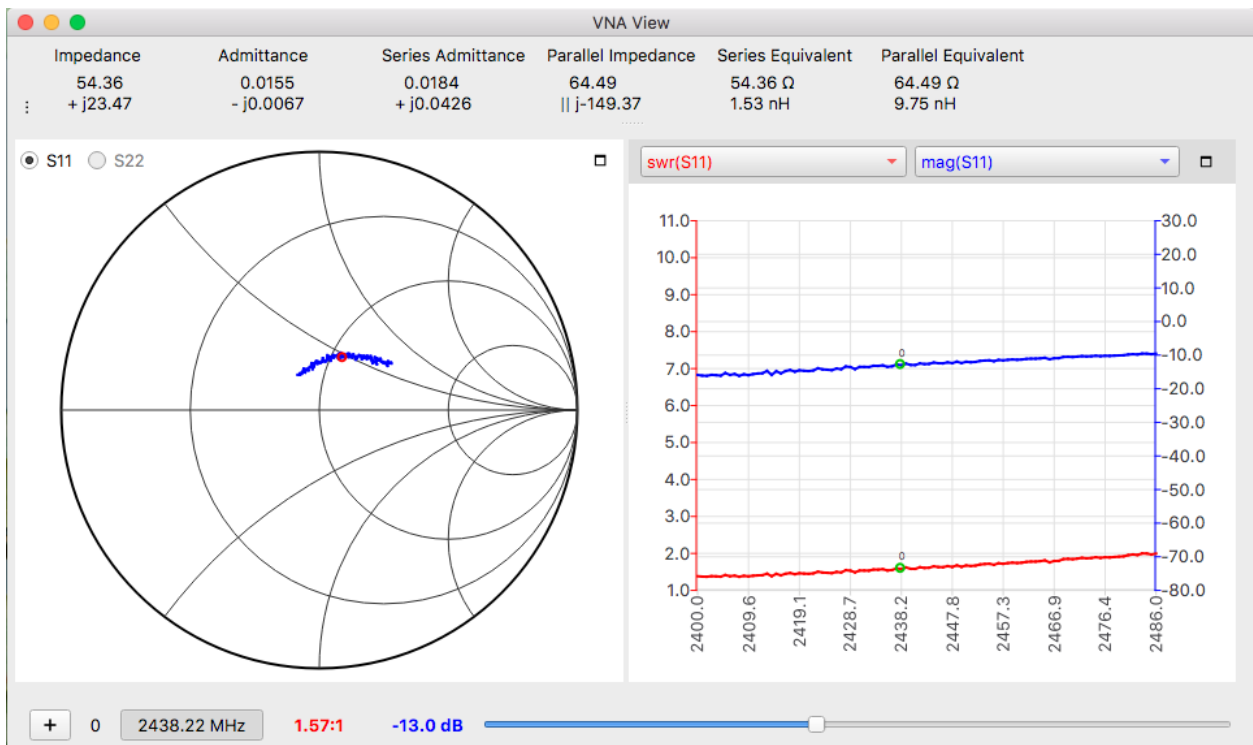
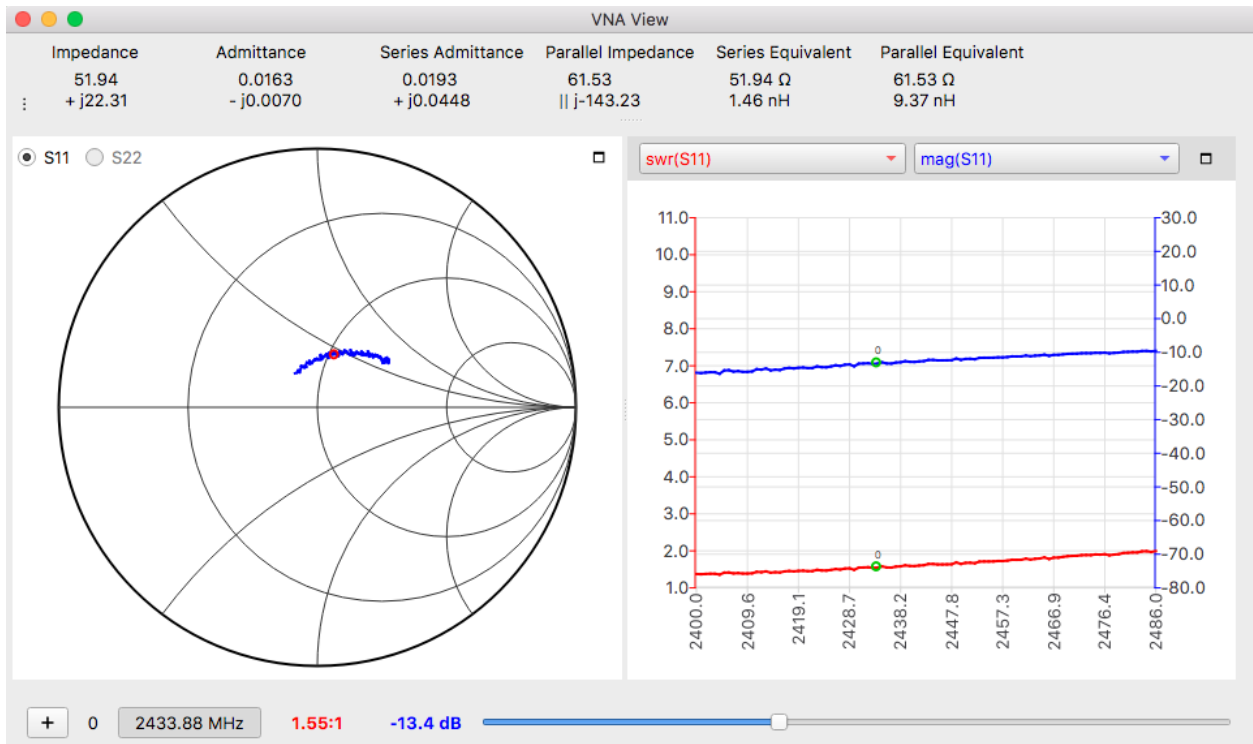
3. SWR & Smith Charts

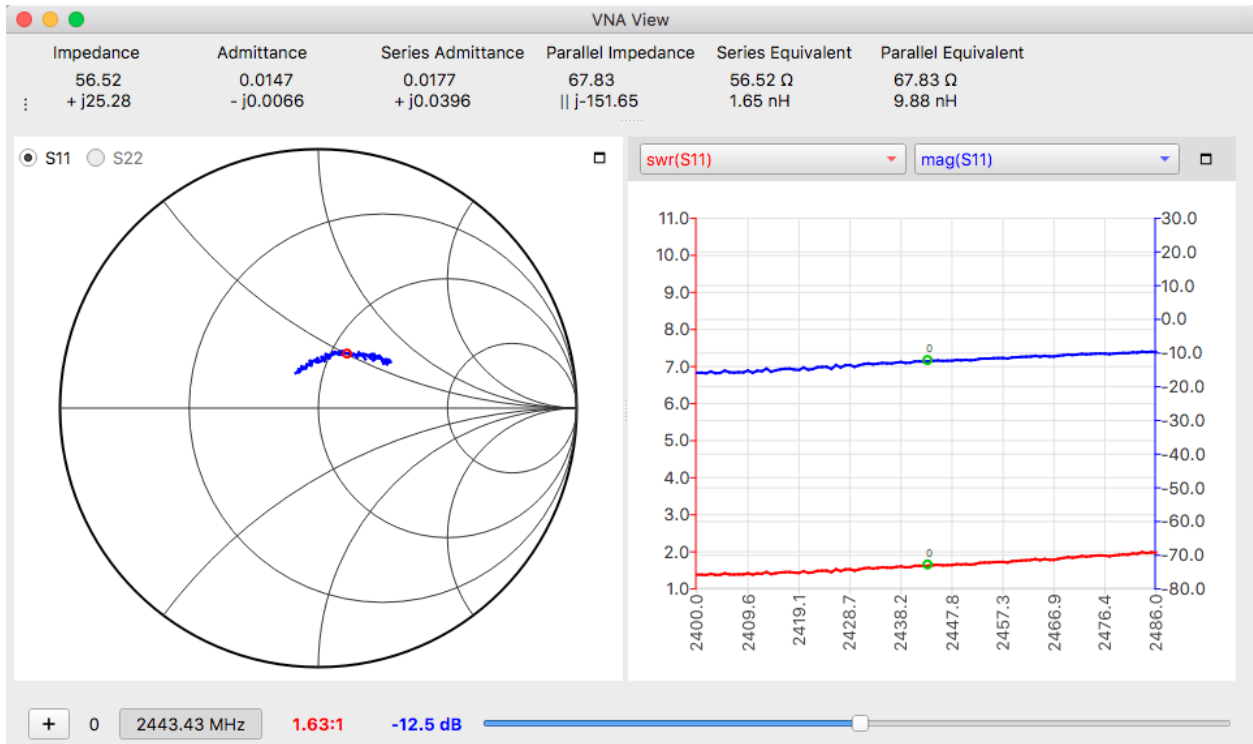
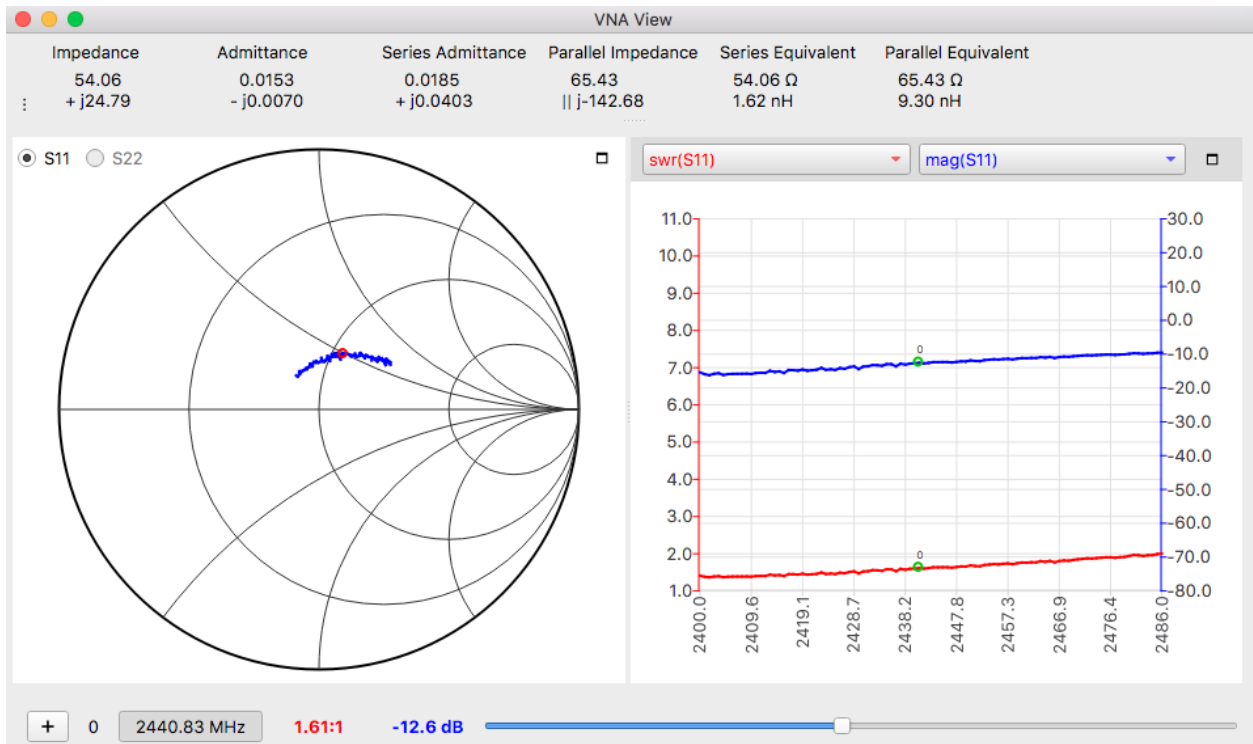


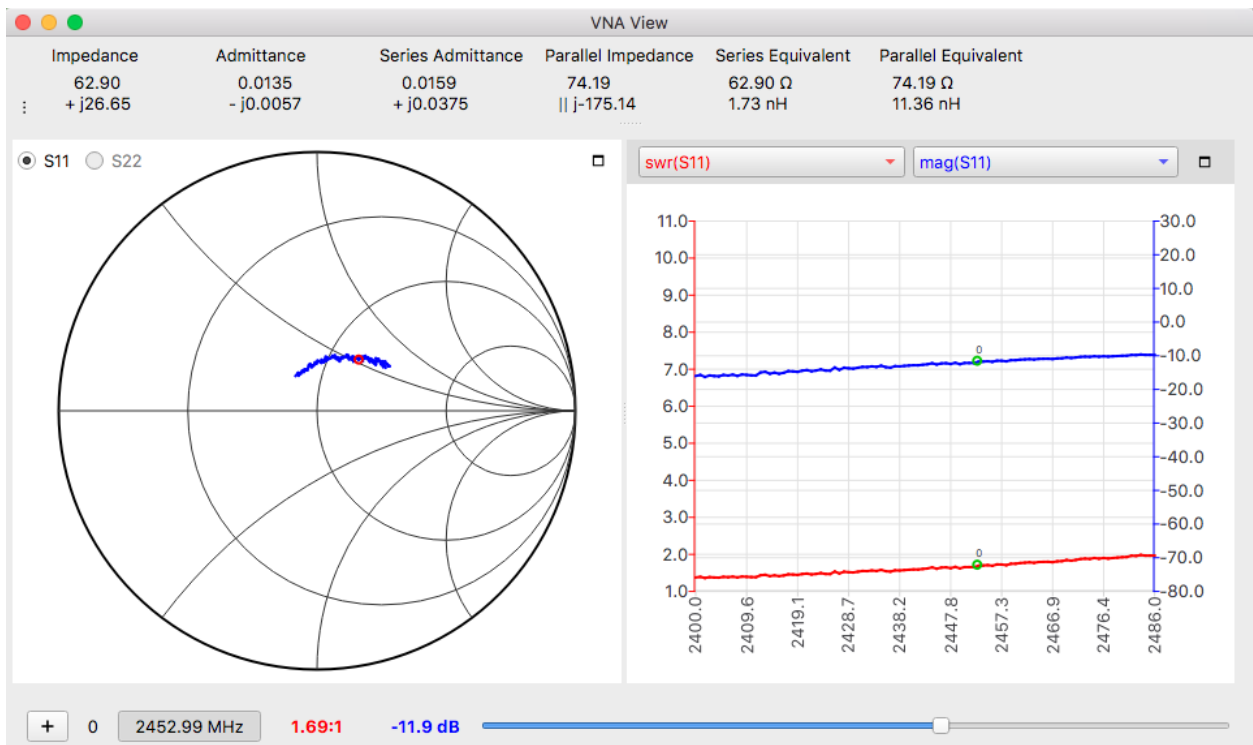
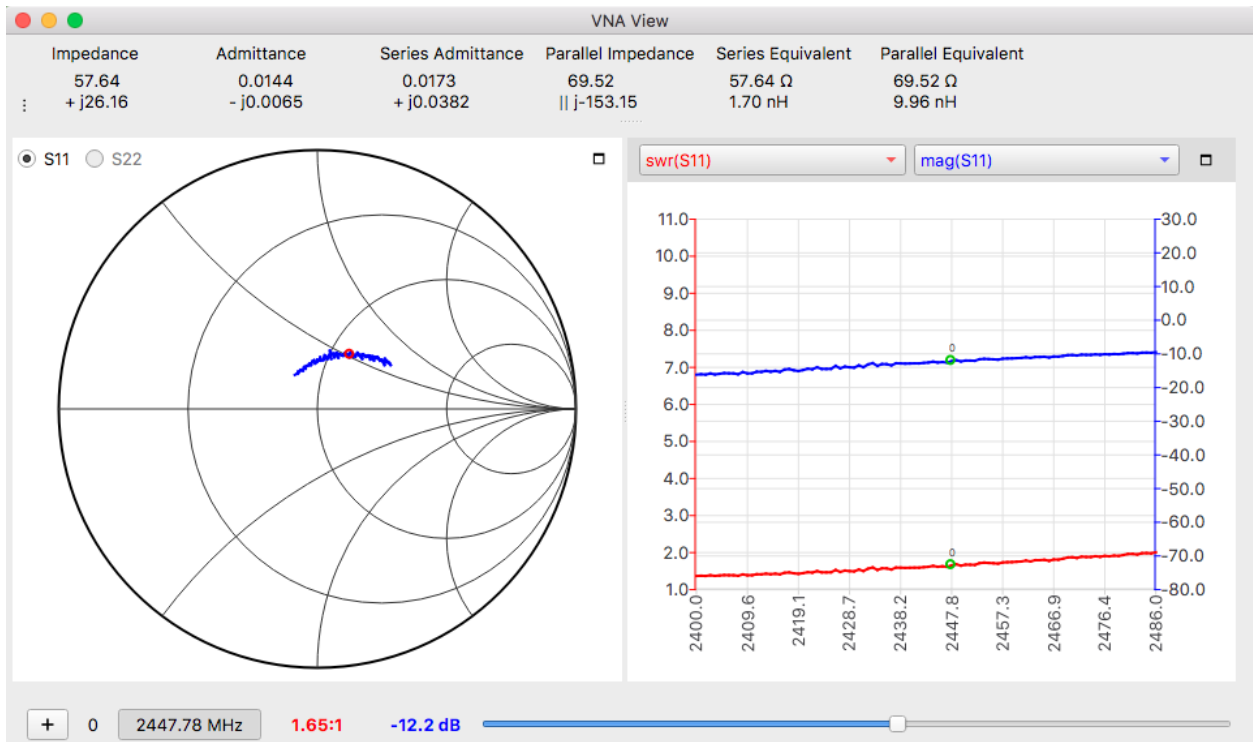


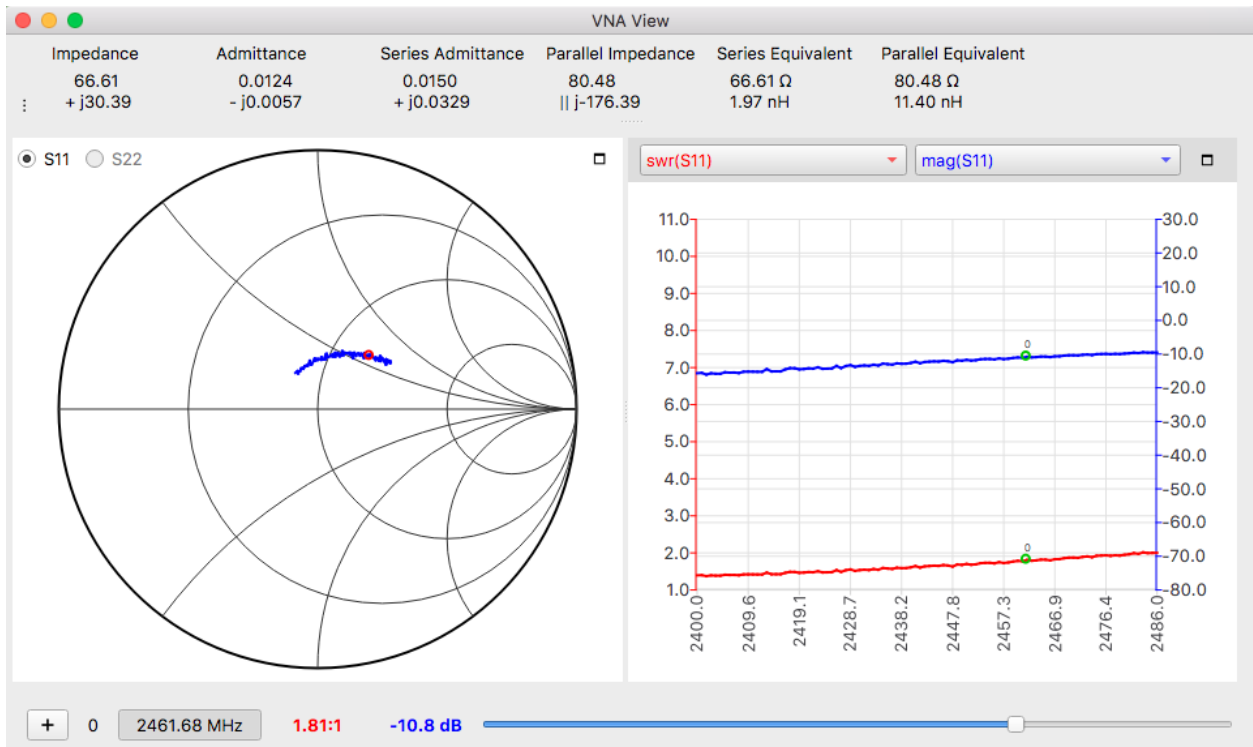
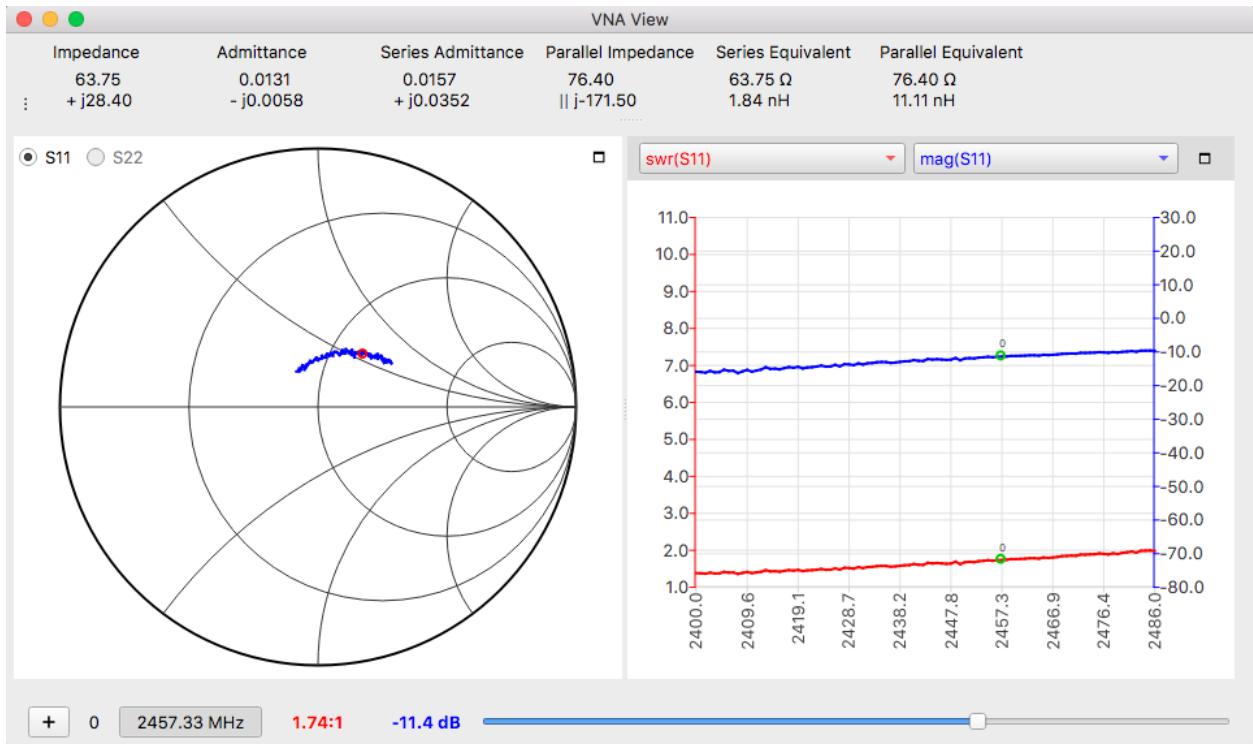


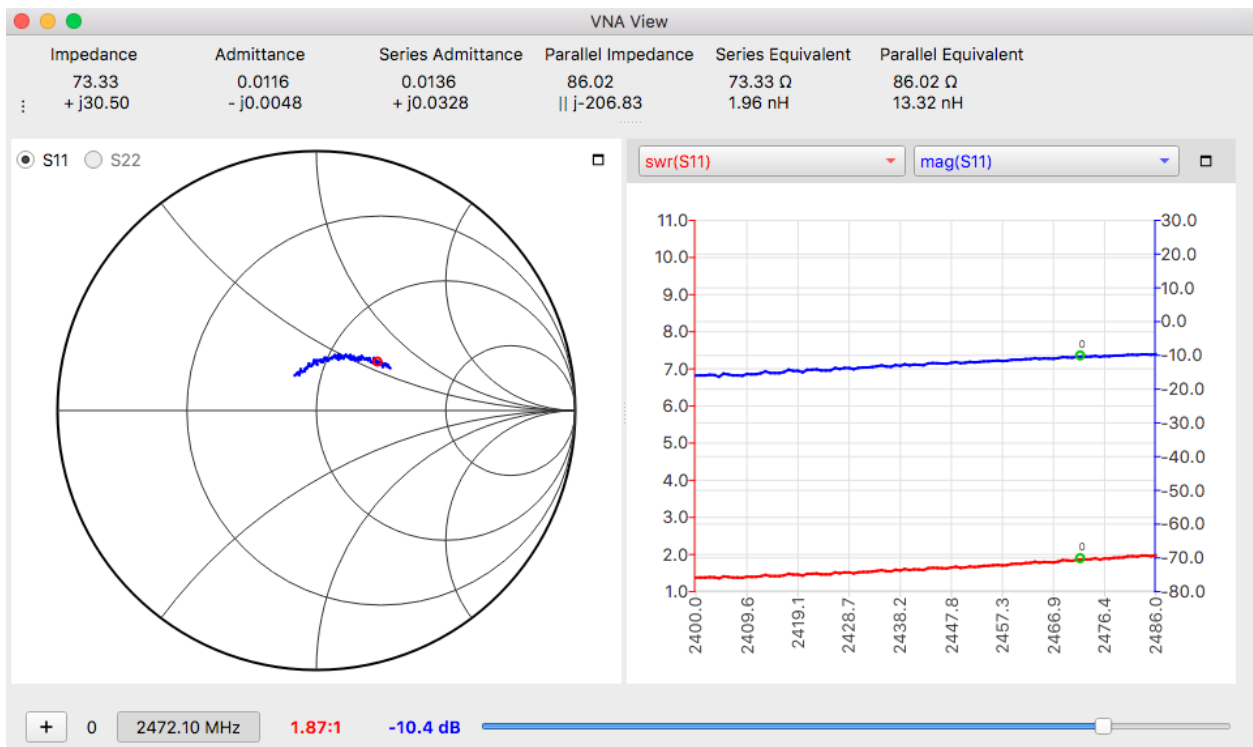
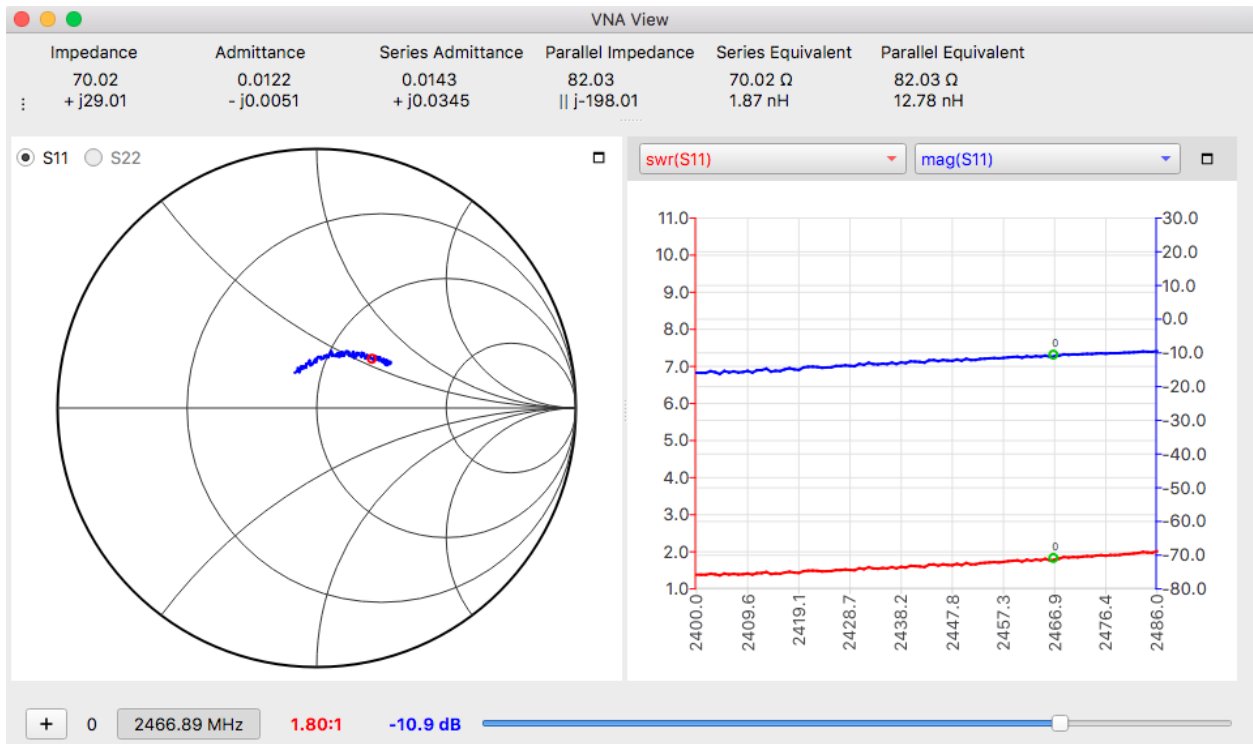


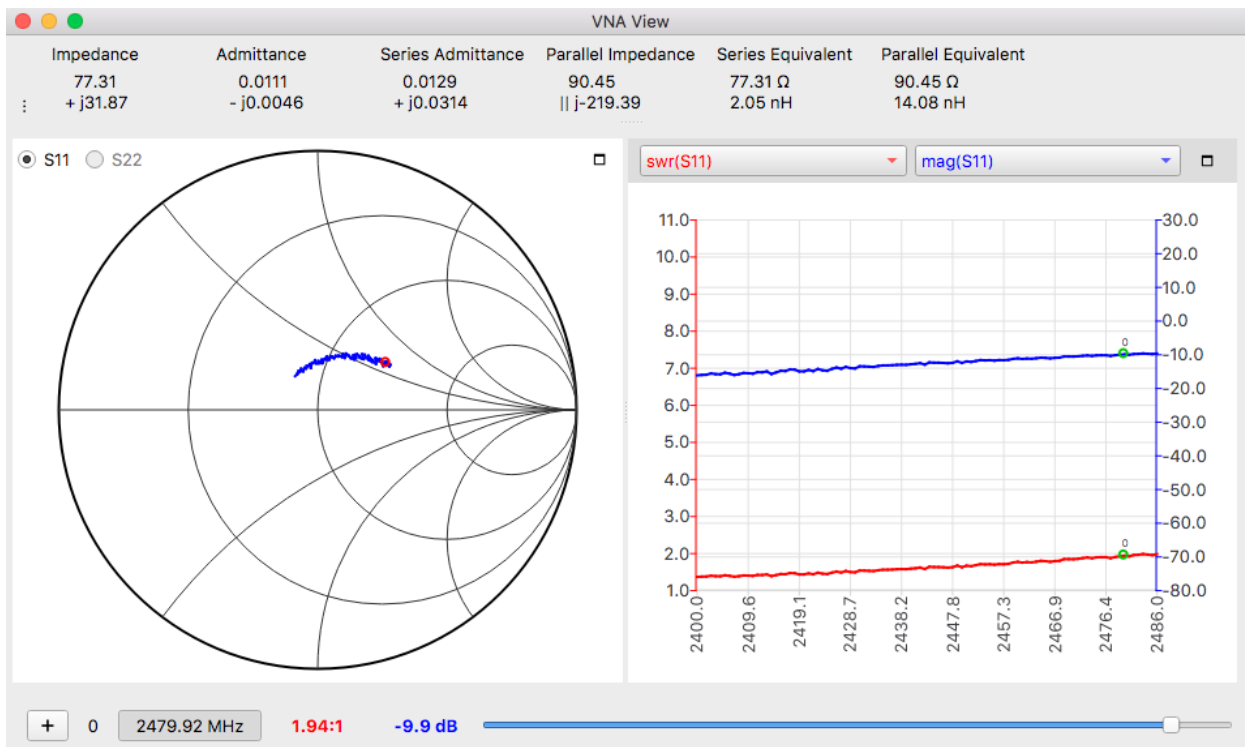
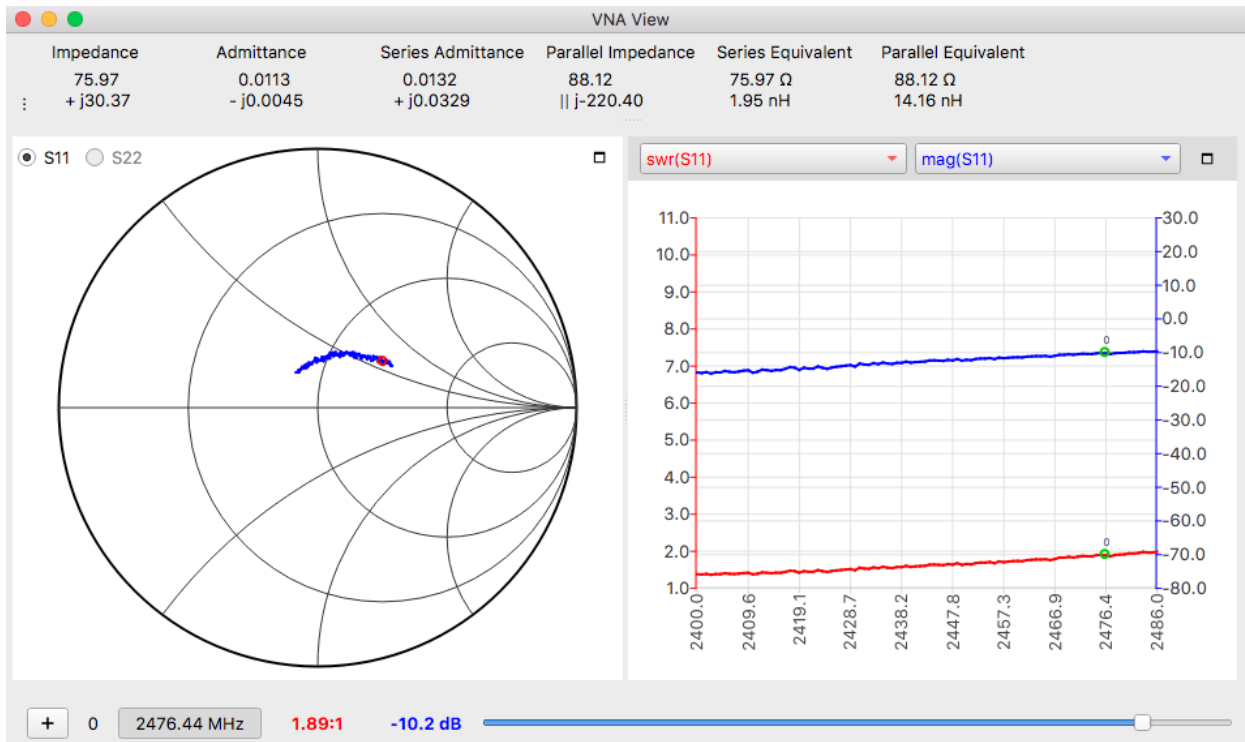


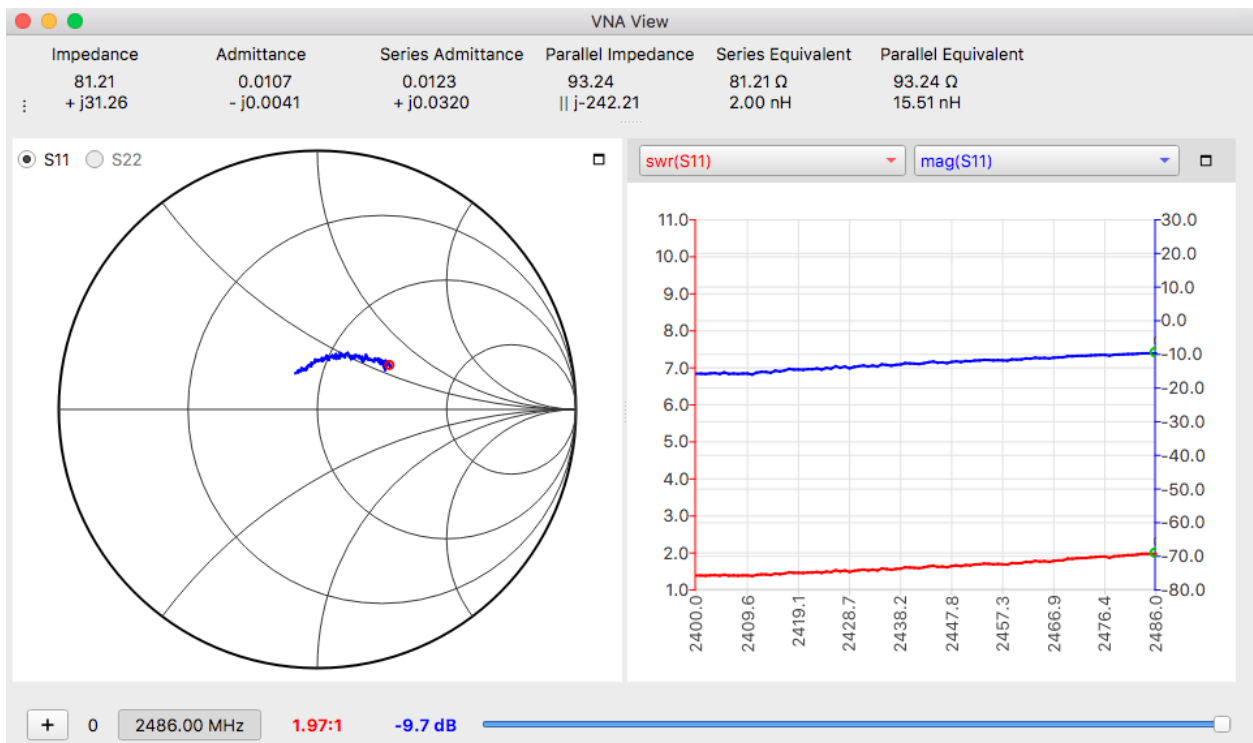
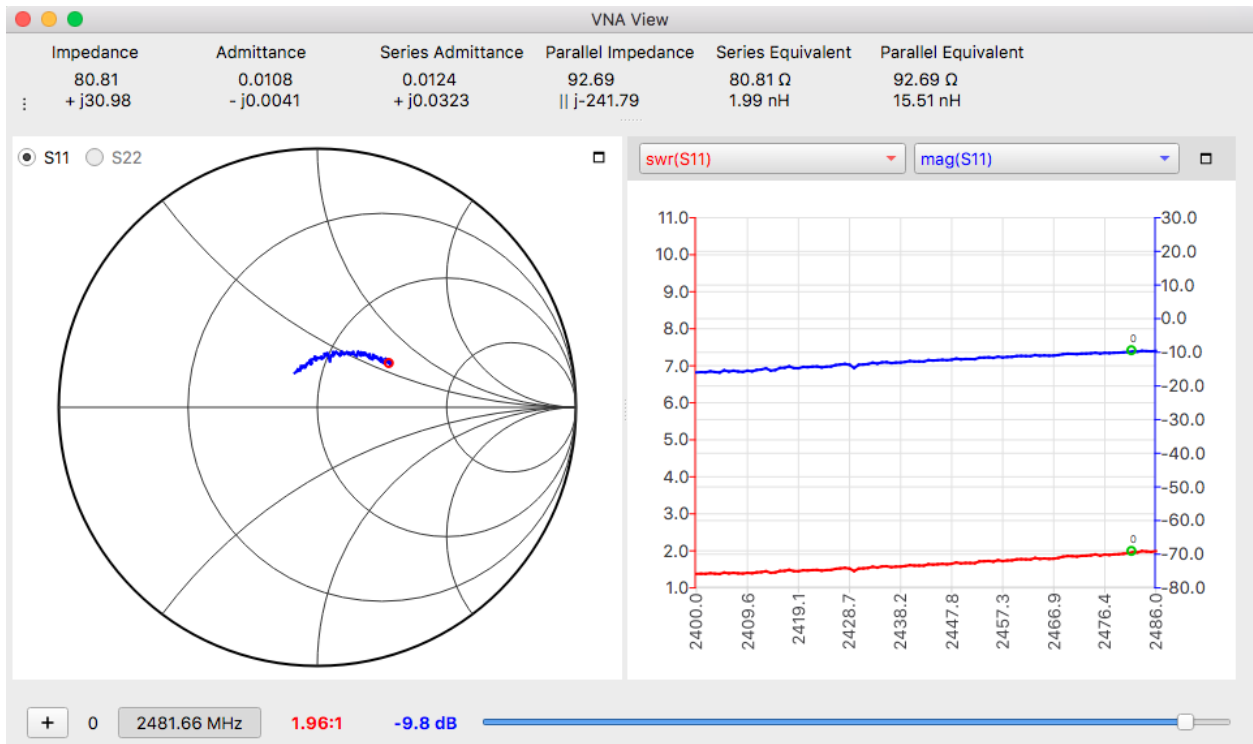












Calculation

Select input type:

VSWR

1.2

CALCULATE

Result:

VSWR: 1.200

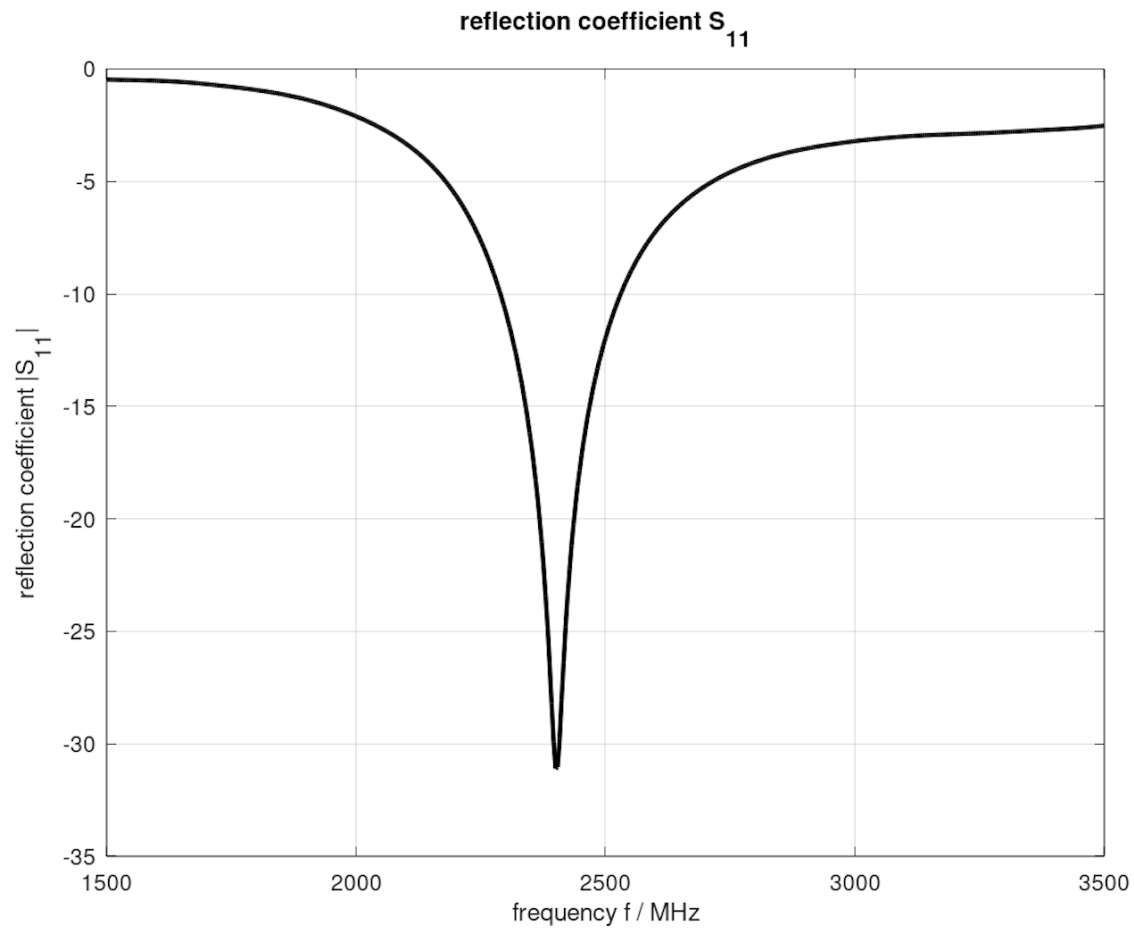
Reflection Coeff.: 0.09091

Return Loss: 20.83 dB

Mismatch Loss: 0.03604 dB

$$R_c = \frac{VSWR-1}{VSWR+1}; VSWR = \frac{1+R_c}{1-R_c}$$

$$L_r = -20 \log_{10}(R_c); L_m = -10 \log_{10}(1 - R_c^2)$$



Frequency (GHz)	S11 (dB)
2.402	-15.385
2.441	-12.736
2.480	-9.904

Frequency (GHz)	VSWR
2.402	1.41
2.441	1.61
2.480	1.94

Reference

Return Loss (dB)	15.211	14.719	12.413	10.58	9.78
VSWR	1.42	1.45	1.63	1.81	1.96
Return Power Ratio	3.0137	3.3746	5.7369	8.7691	10.517

([reference link](#))

