



Nevada Nano MethaneTrack 915 MHz ISM Antenna

08-09-2024

World Products P/N WPANT10194-S1B Antenna

- Test Date: Aug 09, 2024
- Location: WPI Test Lab, Aptos, CA
- Tested By: Luis Cardenas, Engineer Luis E Cardenas Date 8-9-24
- Lab Manager: Bruce Bishop Bruce Bishop Date 8-9-2024
- Test System; MVG Stargate 32
- Calibration Date: July 25, 2024

Device Under Test



Antenna Details



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sales@worldproducts.com

WPANT10194-S1B

860-930 MHz thin PCB antenna



Application

Custom designed thin PCB antenna for internal embedded applications.

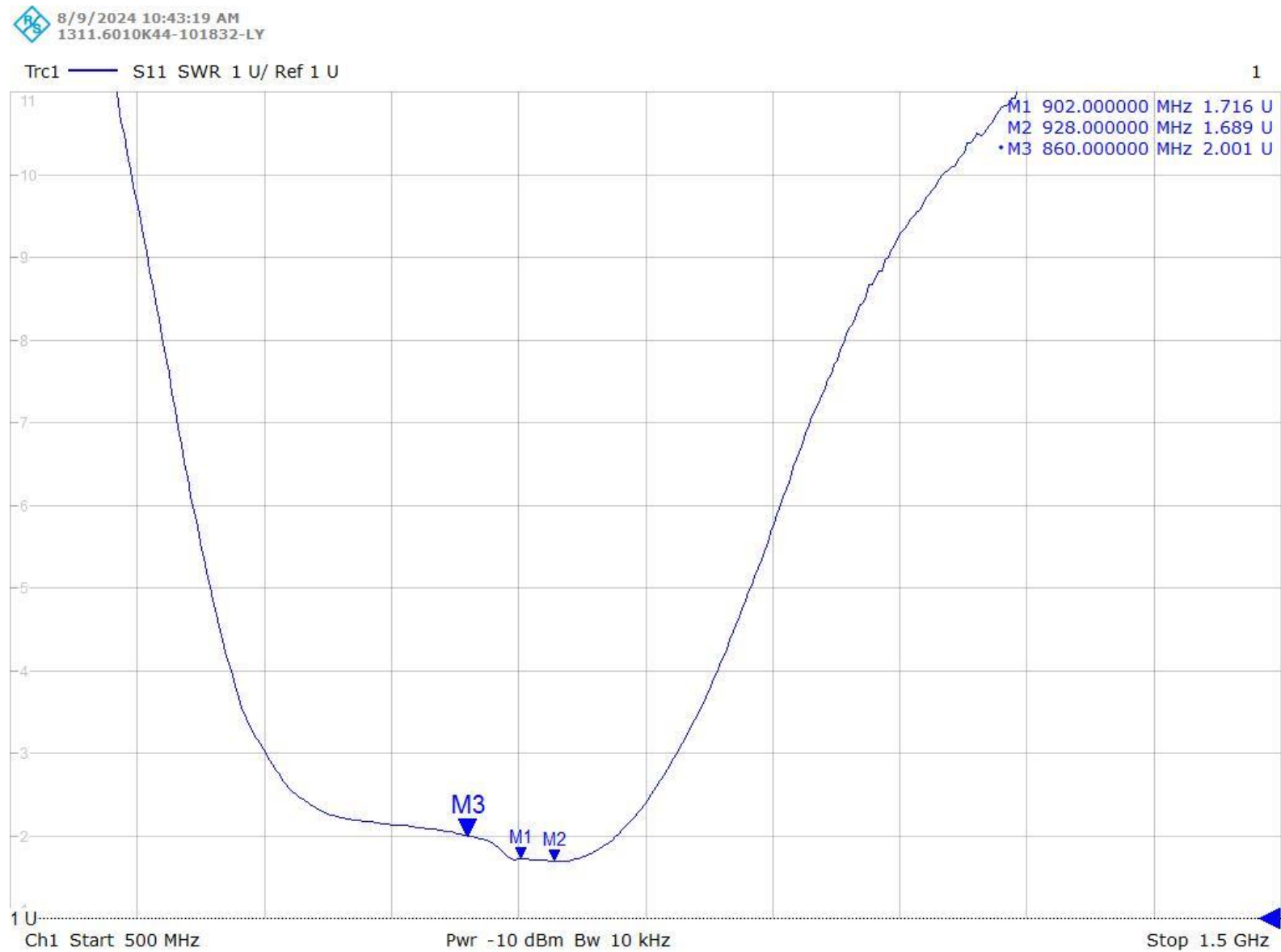
We can assist your engineers to optimize mounting positions for these antennas in your specific application and can further assist to troubleshoot system integration issues such as TRP/TIS and FCC requirements. We specialize in developing customized Antenna solutions. Please contact sales@worldproducts.com with your specific application requirements.

Antenna Details

Electrical Properties	
Operating Frequency	860 - 930 MHz
Approximate Antenna Impedance [Ω]	50 Ω
VSWR (Typical)	< 2 :1
Peak Gain [dBi] (Typical)	+1 dBi
Efficiency [%] (Typical)	70%
Polarization	Linear
Pattern	Omni-directional

Mechanical / Environmental Properties	
Antenna Dimensions	8.54" x 0.94" x 0.005" (217 mm x 24 mm x 0.127 mm)
Antenna Color	Black
Material	5 mils FR406 PCB
Operating / Storage Temperature	-40°C to +90°C
Environmental	Meets standards for UL 94V-0
Hazardous Materials	RoHS Compliant

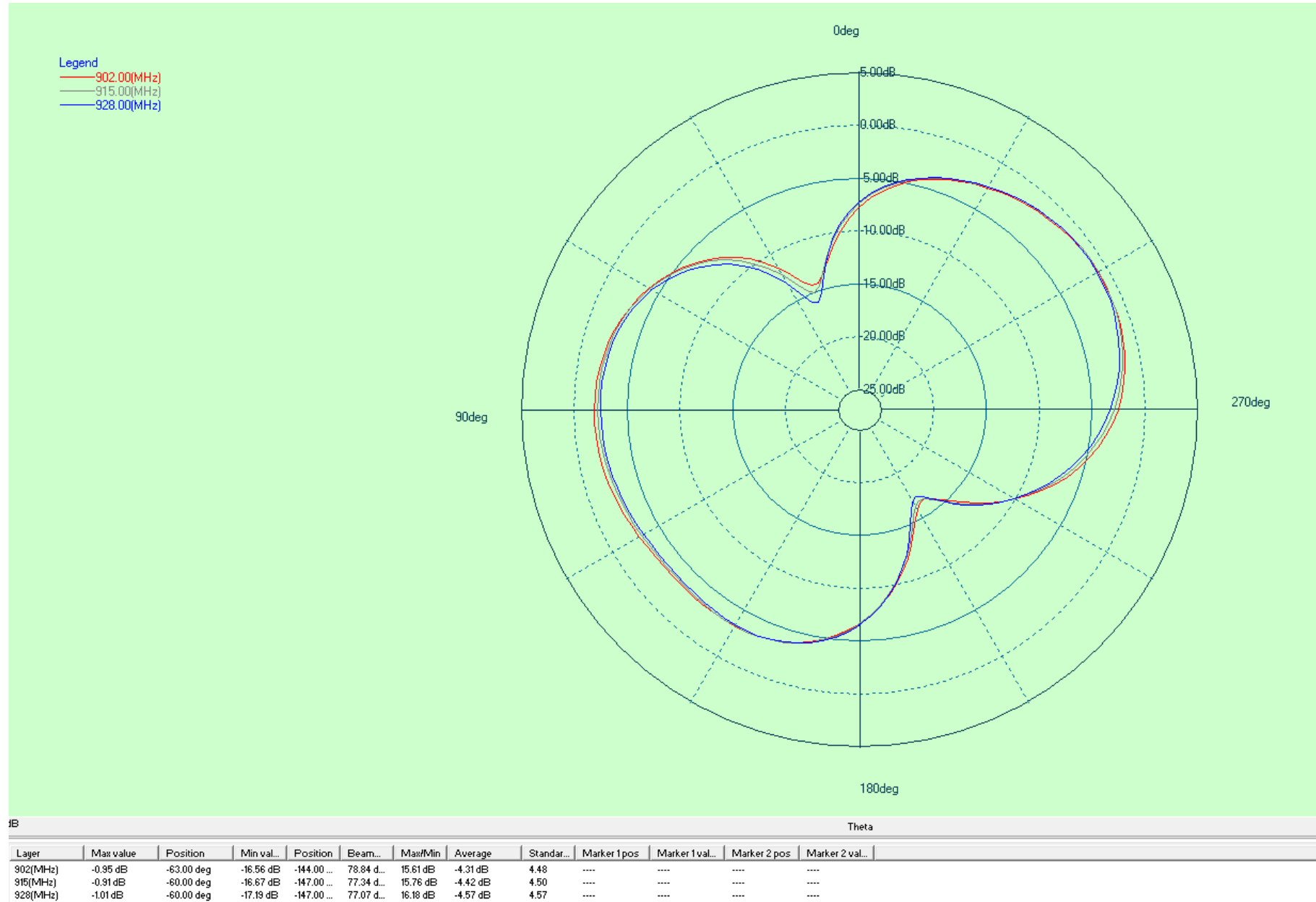
VSWR



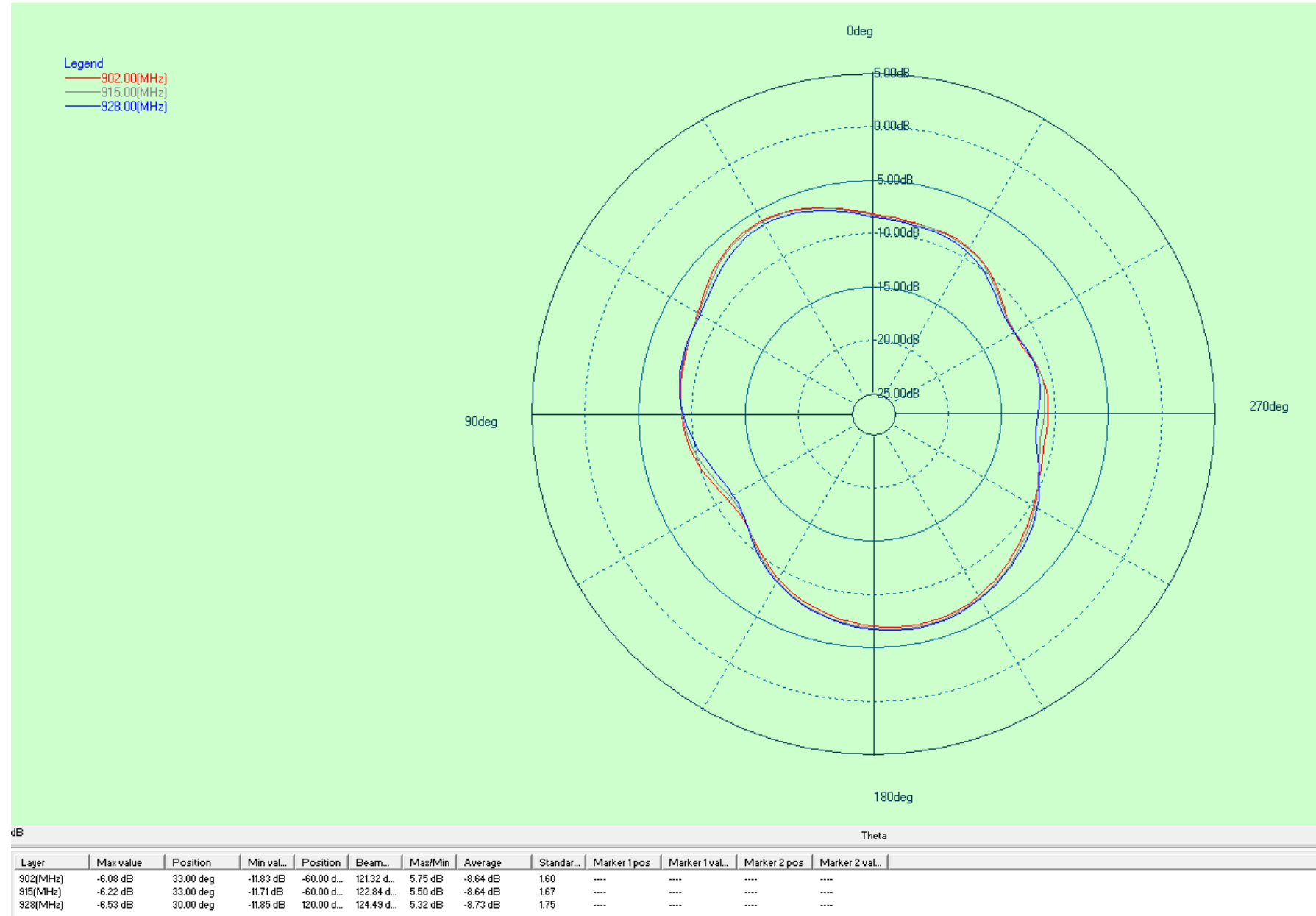
Device in Chamber



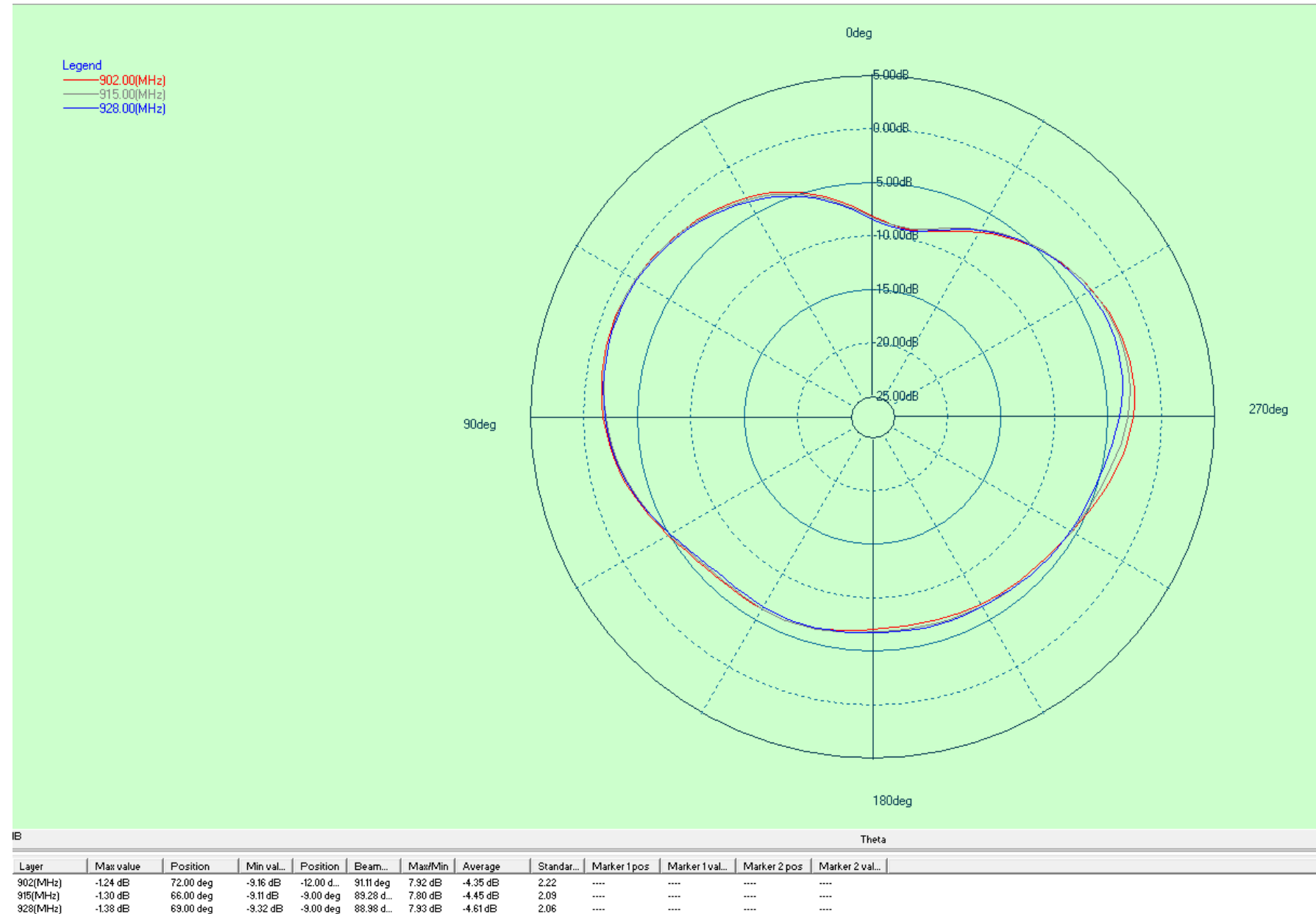
Elevation 1 Vertical Polarization



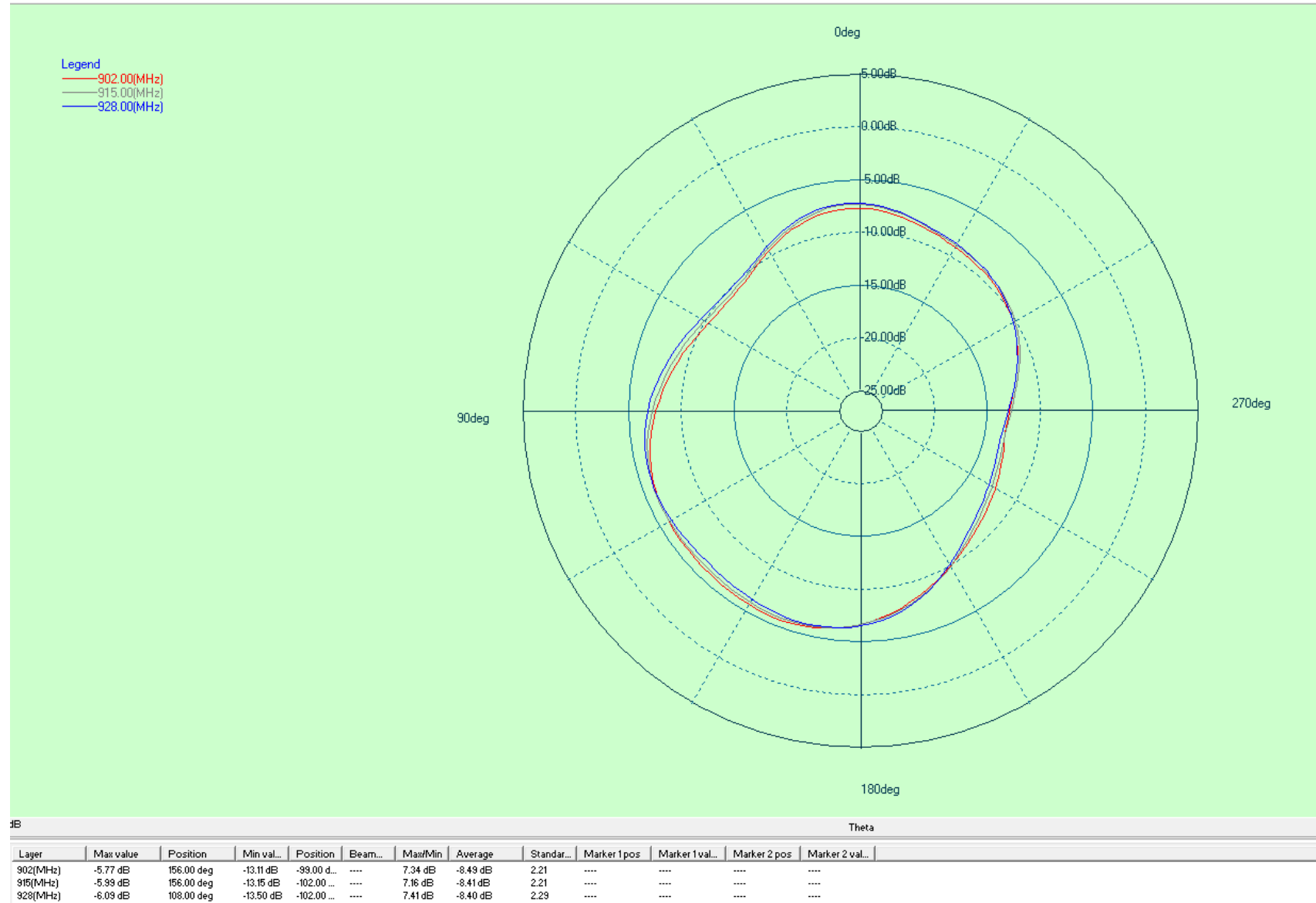
Elevation 1 Horizontal Polarization



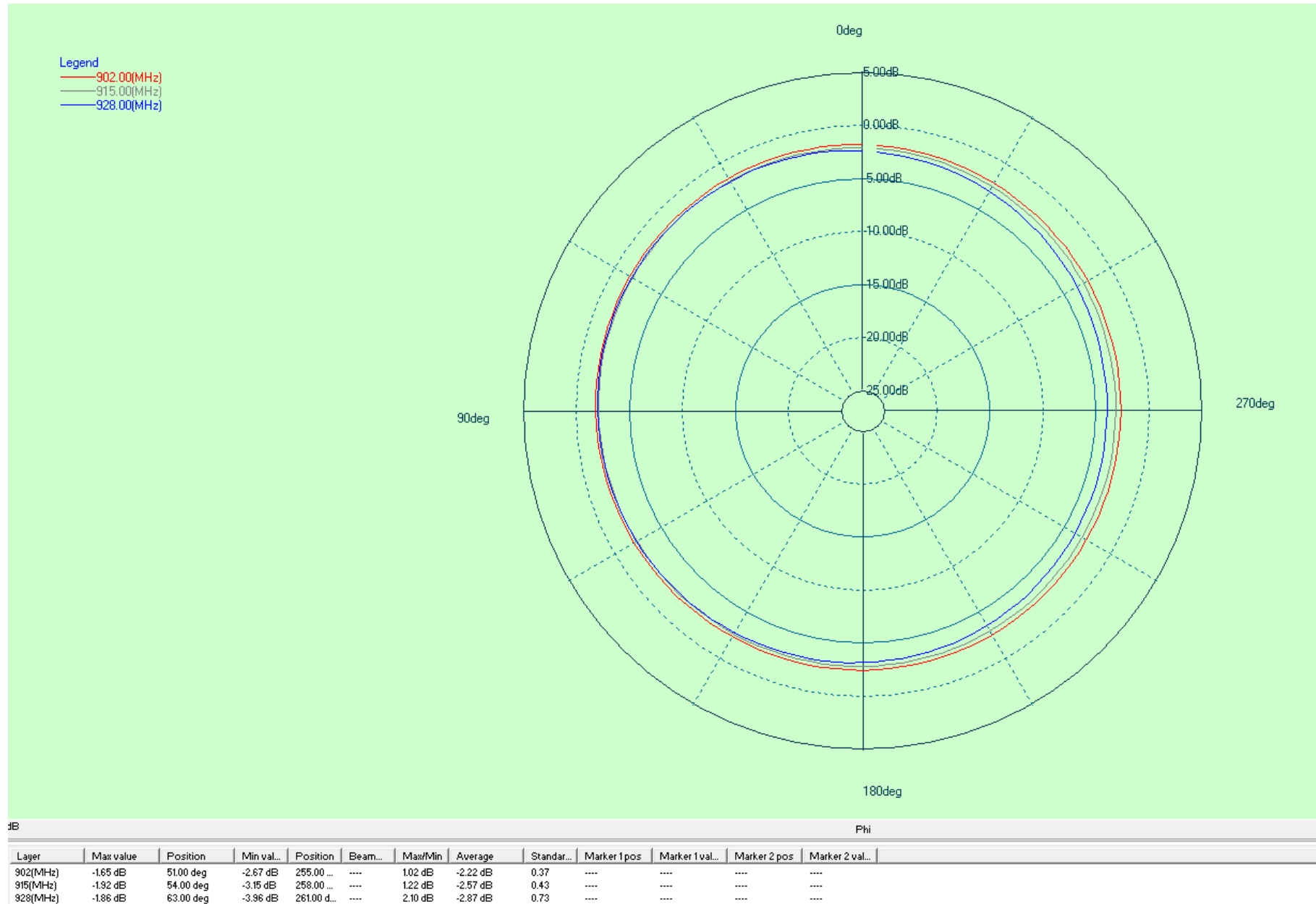
Elevation 2 Vertical Polarization



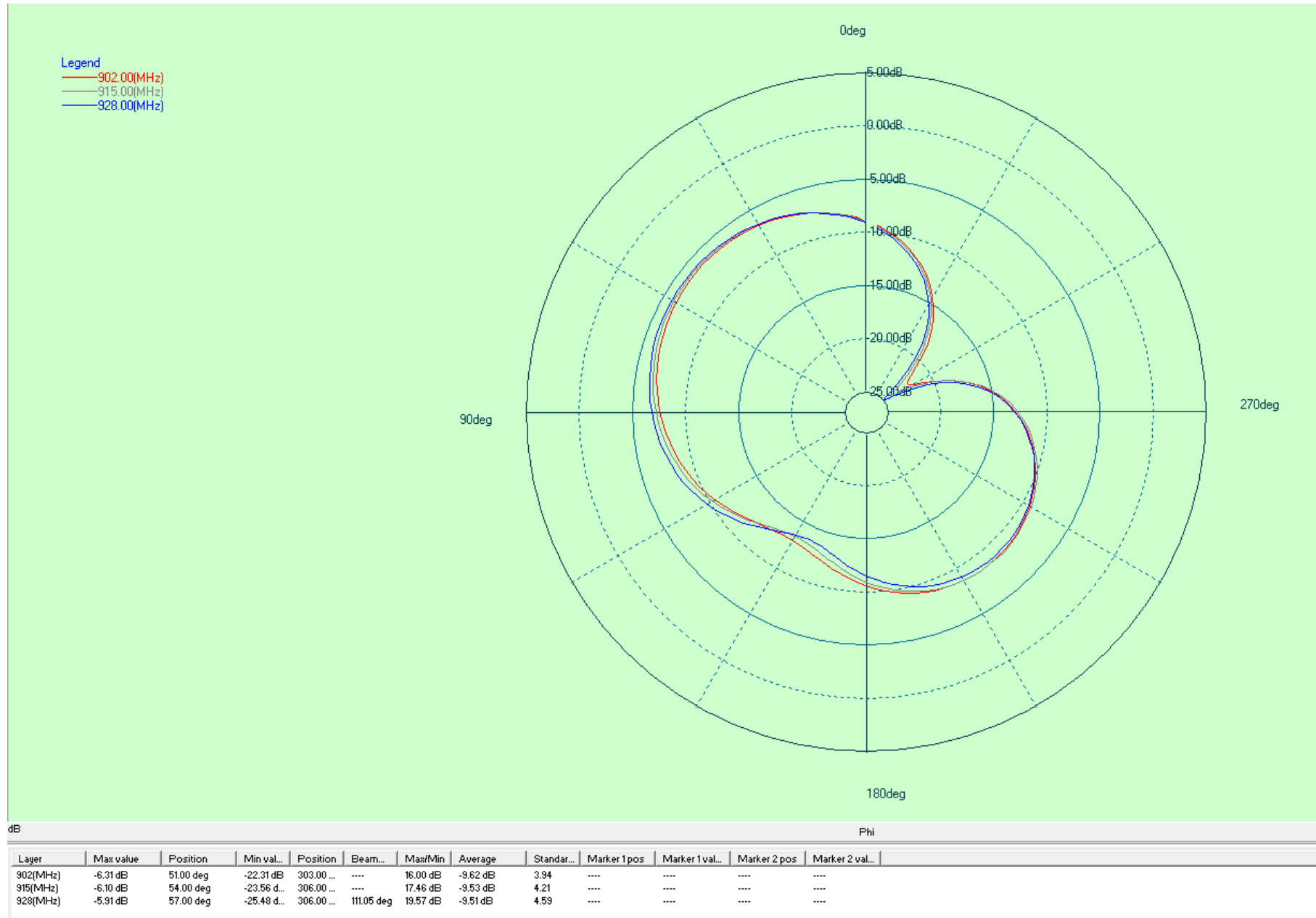
Elevation 2 Horizontal Polarization



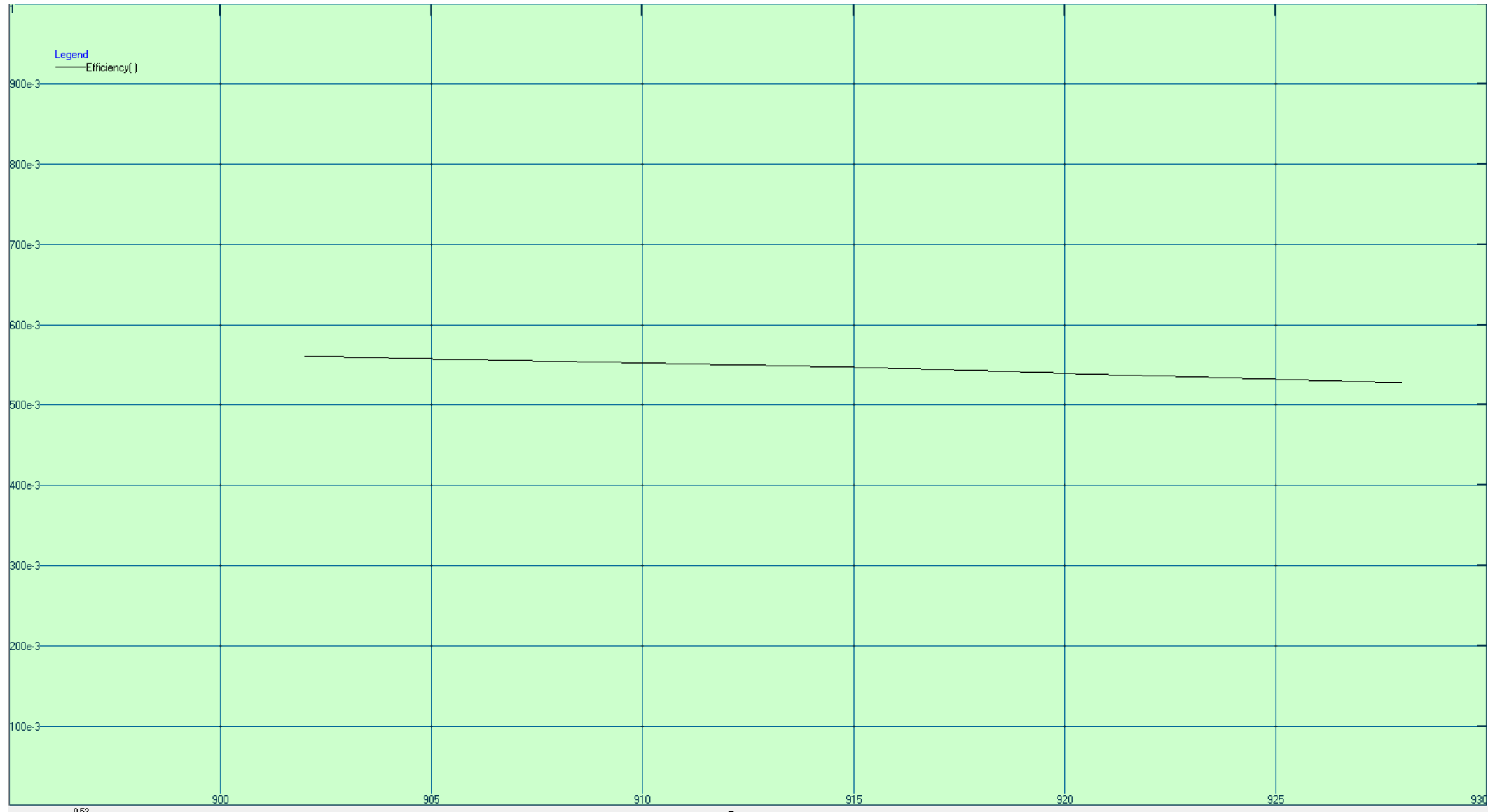
Azimuth Vertical Polarization



Azimuth Vertical Polarization



Efficiency



Peak Gain Summary

	Peak Gain dBi		
	902 MHz	915 MHz	928 MHz
Elevation 1 V	-0.95	-0.91	-1.01
Elevation 1 H	-6.08	-6.22	-6.53
Elevation 2 V	-1.24	-1.3	-1.38
Elevation 2 H	-5.77	-5.99	-6.09
Azimuth V	-1.65	-1.92	-1.86
Azimuth H	-6.31	-6.1	-5.91
Peak Gain	-0.95	-0.91	-1.01