

Gain of the HexTenna Yagi

by – Alpha Antenna



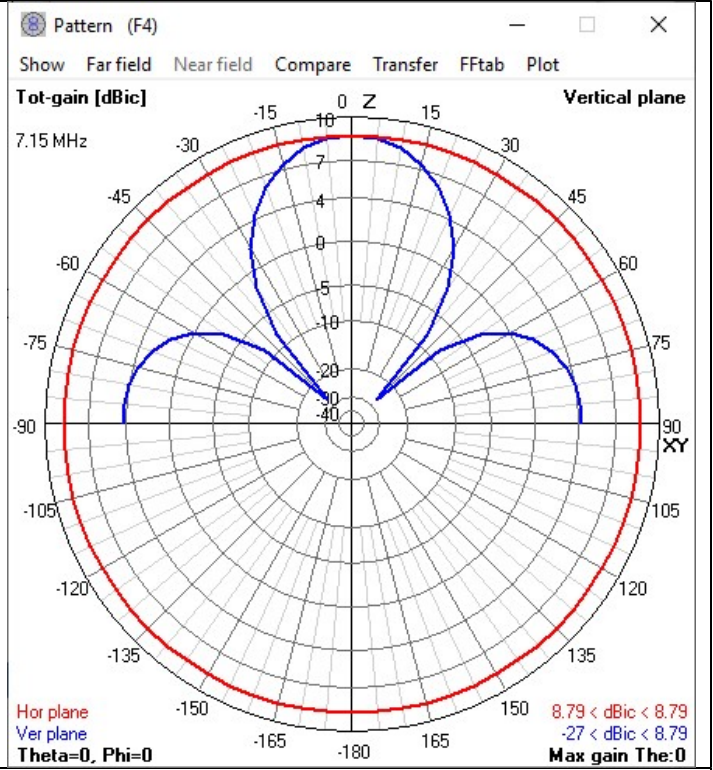
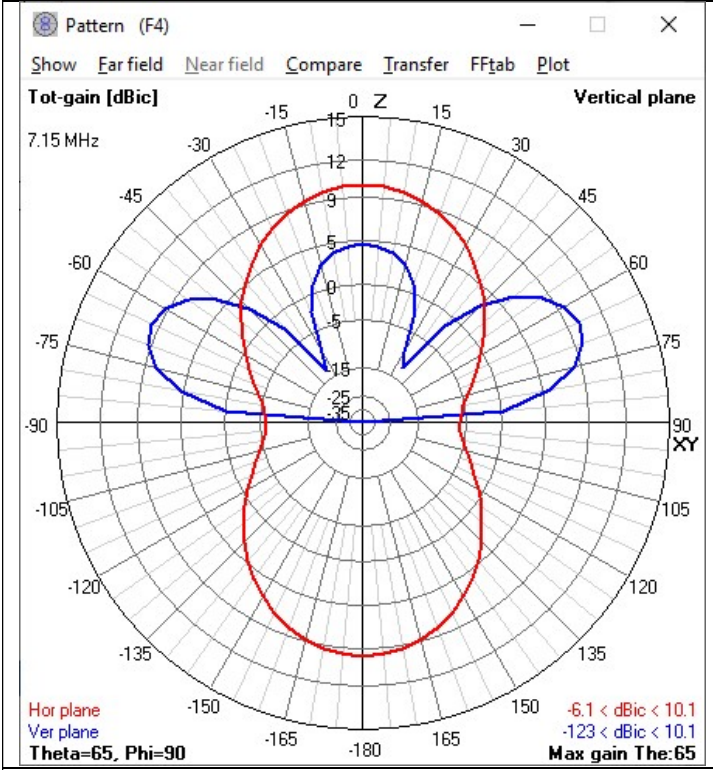
In as much as the gain of the two element HexTenna, it is configurable as a traditional V-Yagi to provide 50-ohms at the feed-point. Presented below are the gain figures for the traditional Yagi configuration. Please note that 'ground gain' can add an approximate 6dB of additional gain.

Gain/Height comparison for traditional single feed V-Yagi		
MHz	Gain/Height	Gain/Height
7.15	10.1 dBi/66 feet	8.79 dBi/5.5 feet
14.18	10 dBi/33 feet	8.45 dBi/5.5 feet
18.12	9.41 dBi/33 feet	8.28 dBi/5.5 feet
21.23	12.7 dBi/33 feet	8.18 dBi/5.5 feet
24.94	9.33 dBi/33 feet	8.1 dBi/5.5 feet
28.85	9.73 dBi/33 feet	8.09 dBi/5.5 feet
52.00	8.95 dBi/33 feet	8.66 dBi/5.5 feet
146.00	10.7 dBi/33 feet	10.1 dBi/5.5 feet

Minimum Gain of the HexTenna by Alpha Antenna with only the driven element connected to the feedline

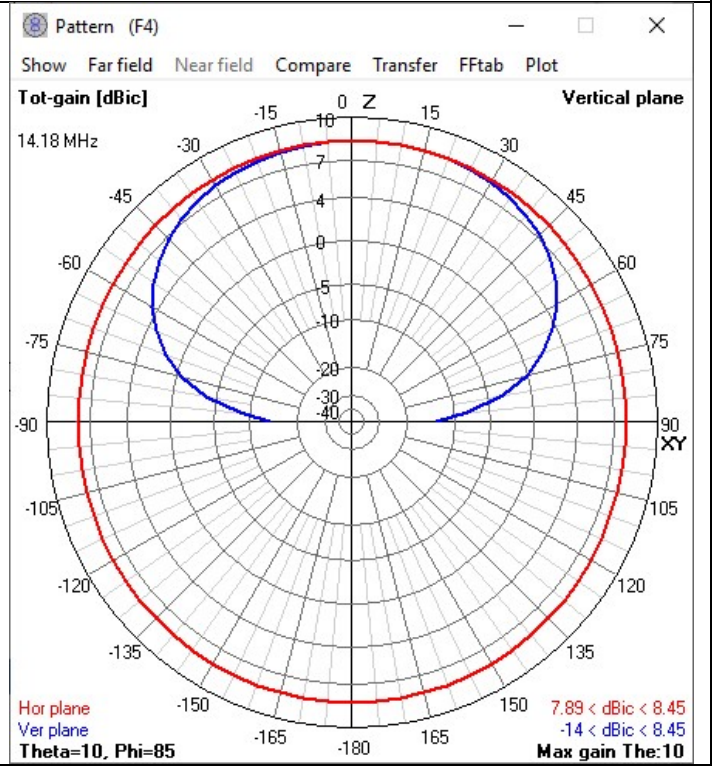
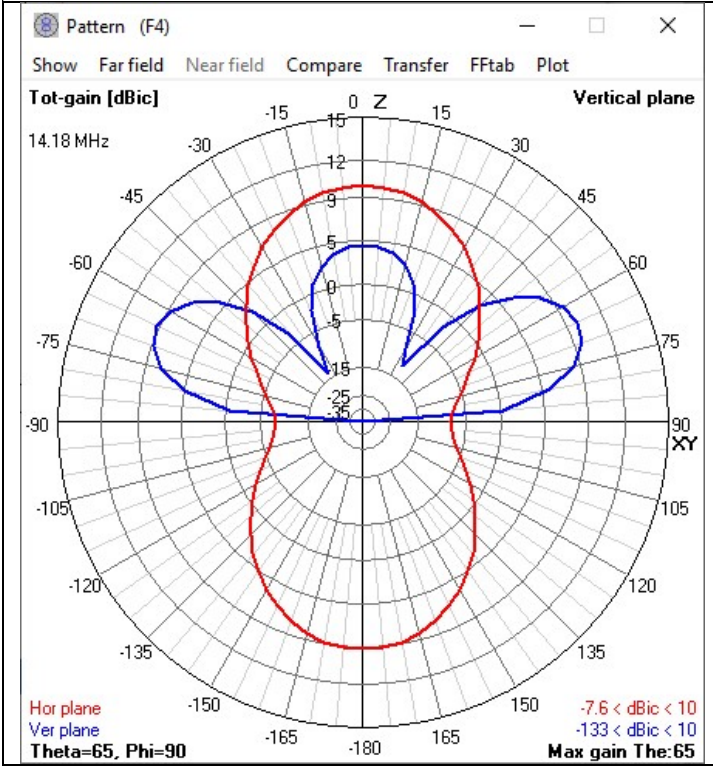
40 Meters, Feedpoint at 66 feet/20.04M

40 Meters, Feedpoint at 5.5 feet/1.67M

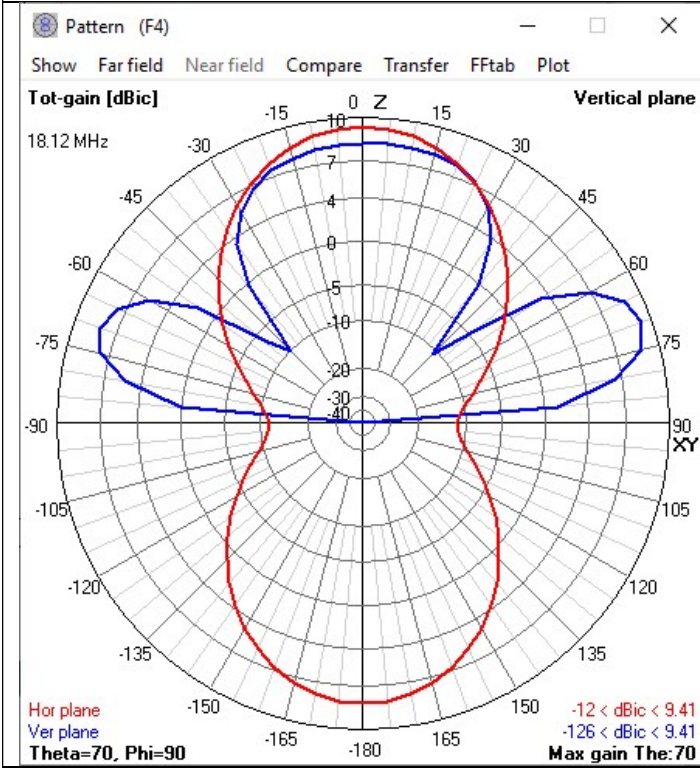


20 Meters at 33 feet/10.02M

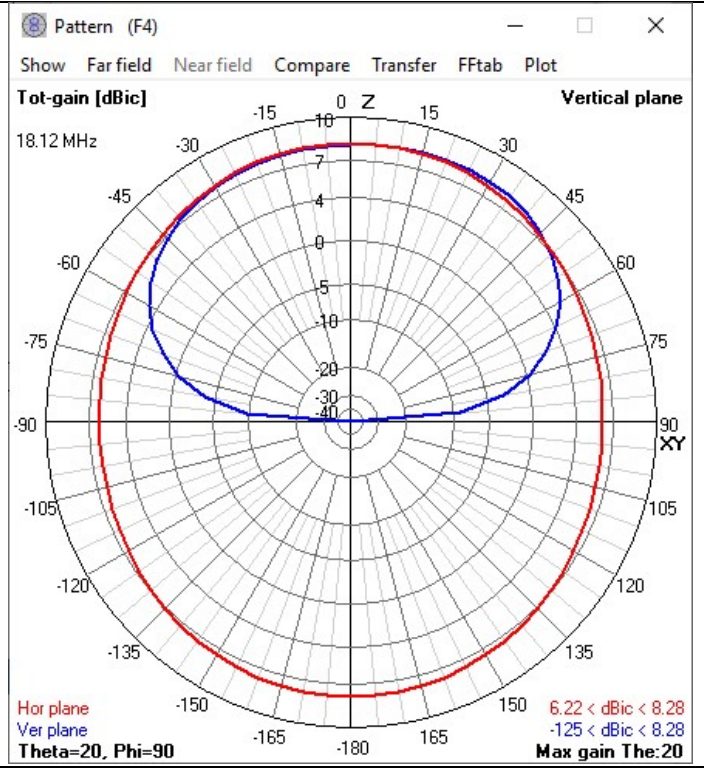
20 Meters at 5.5 feet/1.67M



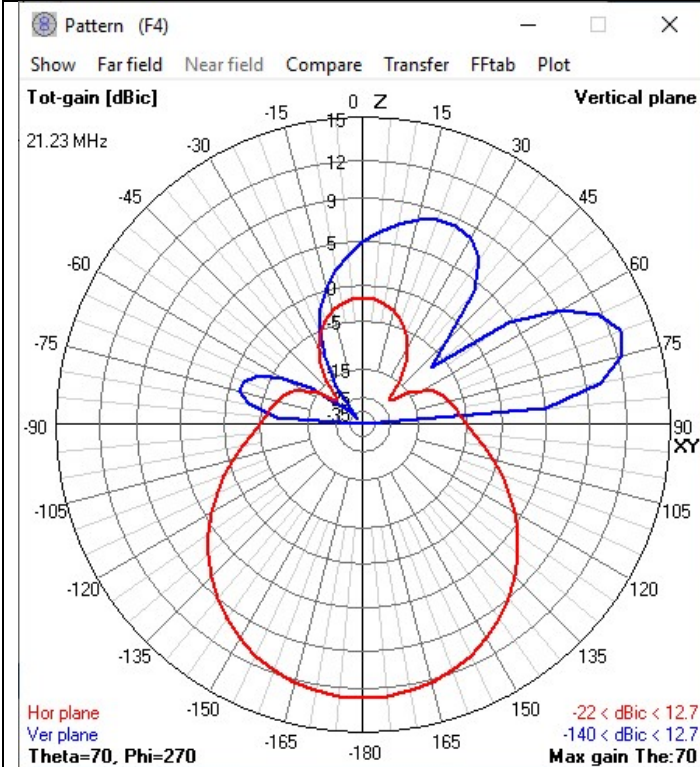
17 Meters at 33 feet/10.02M



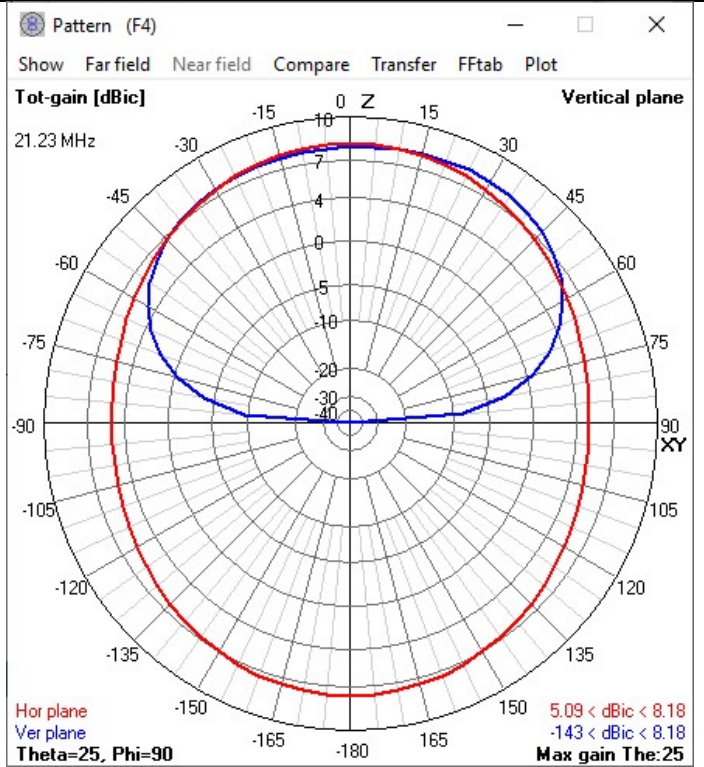
17 Meters at 5.5 feet/1.67M



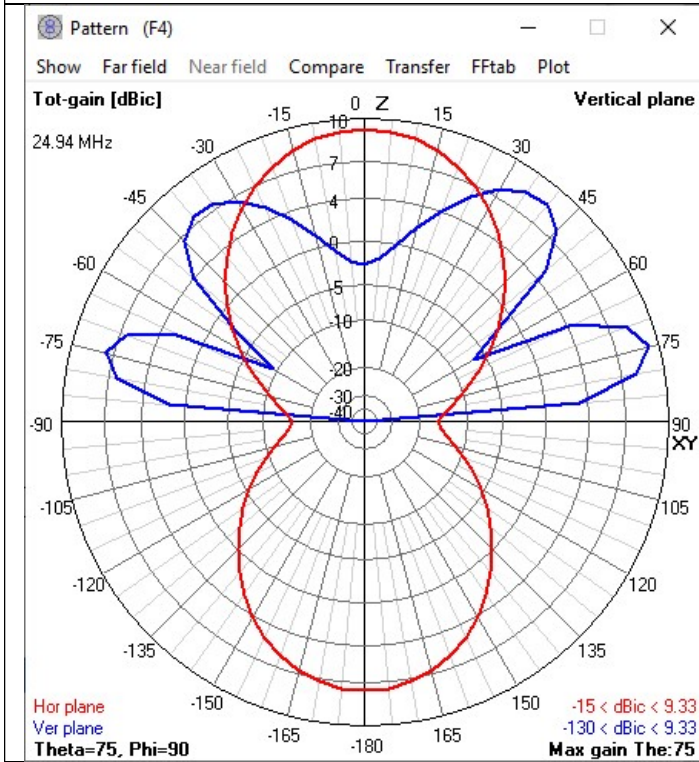
15 Meters at 33 feet/10.02M



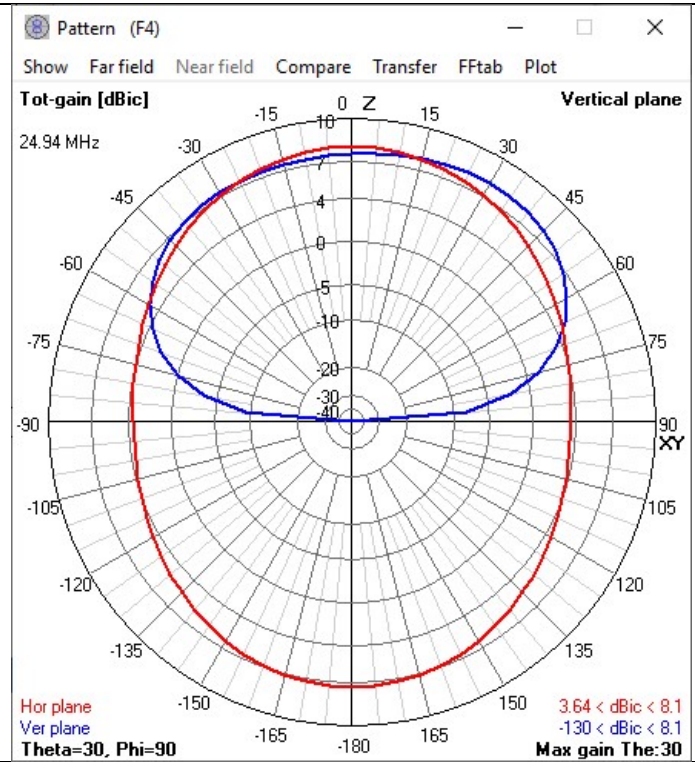
15 Meters at 5.5 feet/1.67M



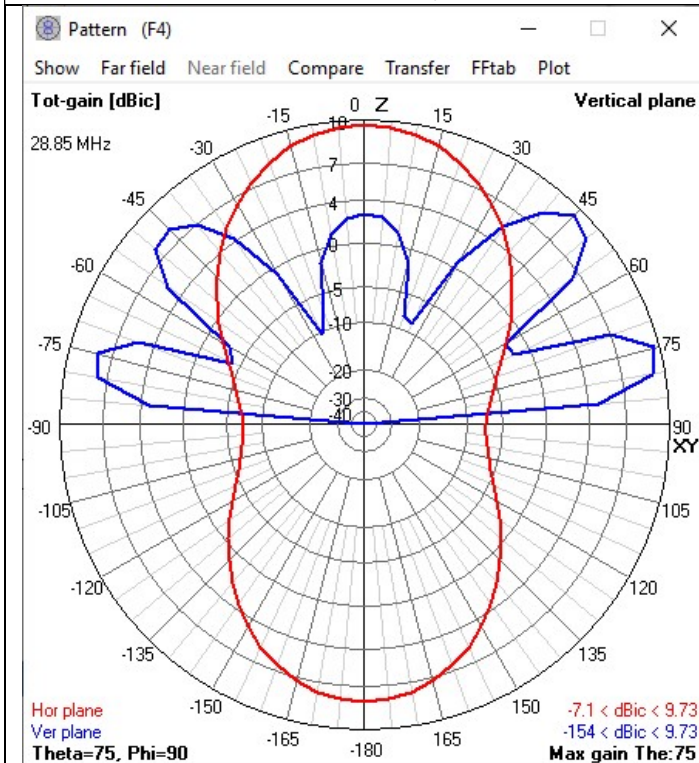
12 Meters at 33 feet/10.02M



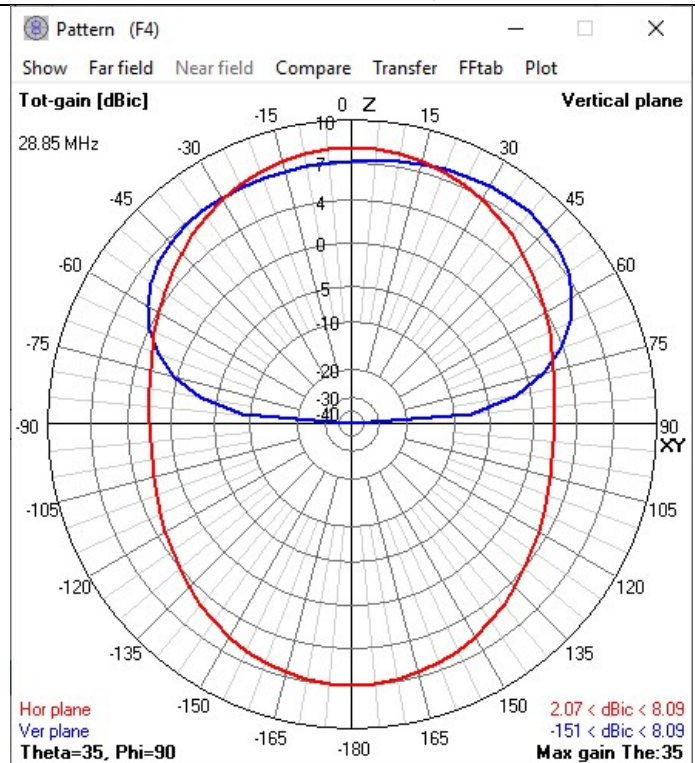
12 Meters at 5.5 feet/1.67M



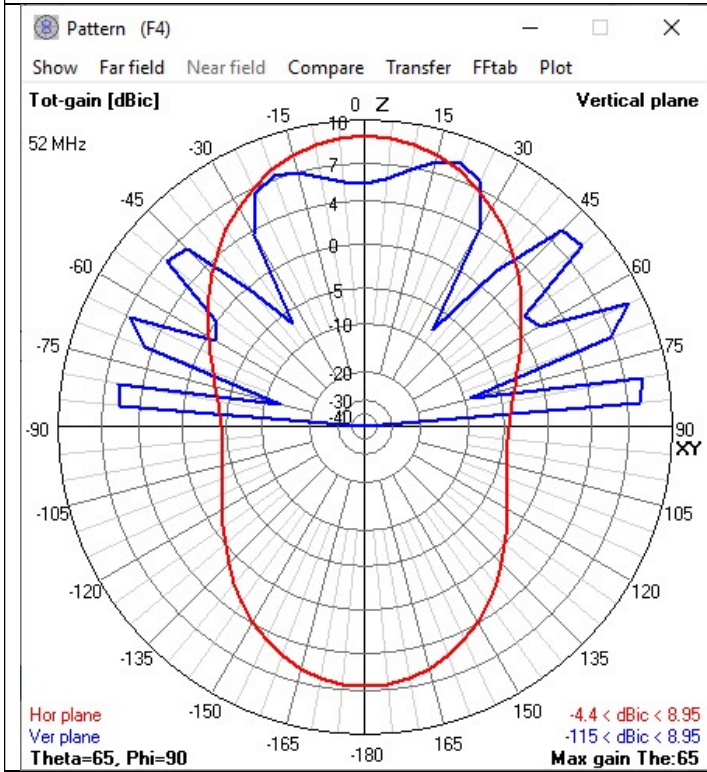
10 Meters at 33 feet/10.02M



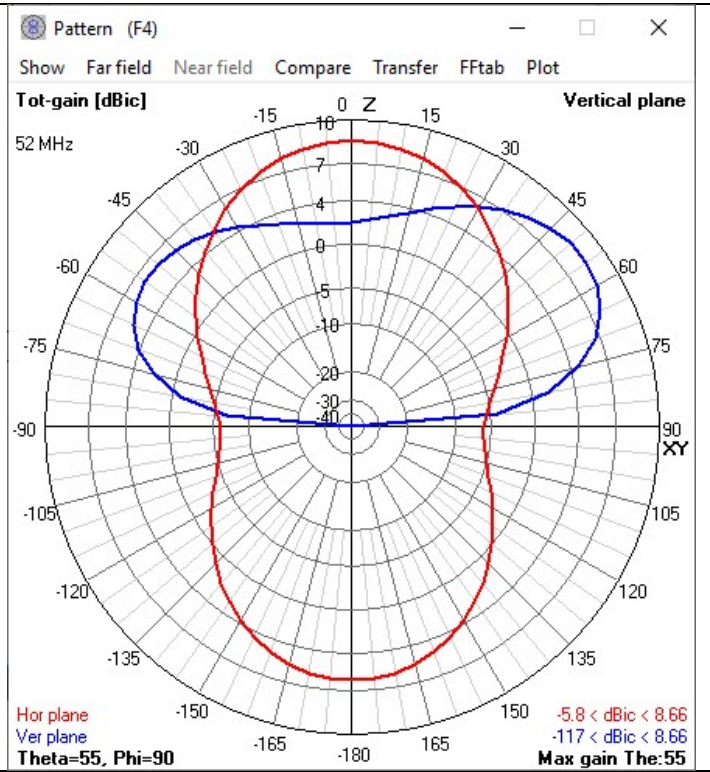
10 Meters at 5.5 feet/1.67M



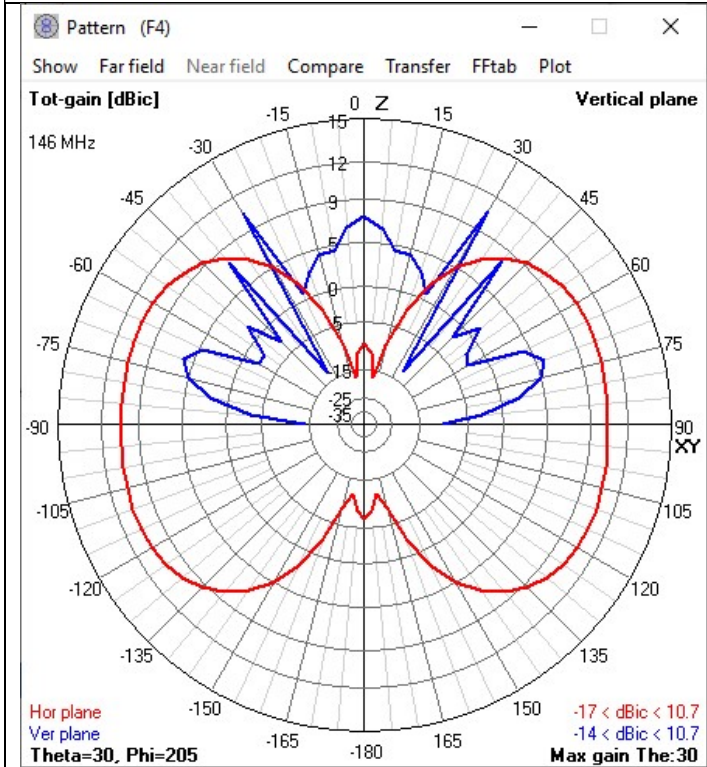
6 Meters at 33 feet/10.02M



6 Meters at 5.5 feet/1.67M



2 Meters at 33 feet/10.02M



2 Meters at 5.5 feet/1.67M

