



**RIVIAN**

**VAS 2.0**  
**Antenna Data Sheet**

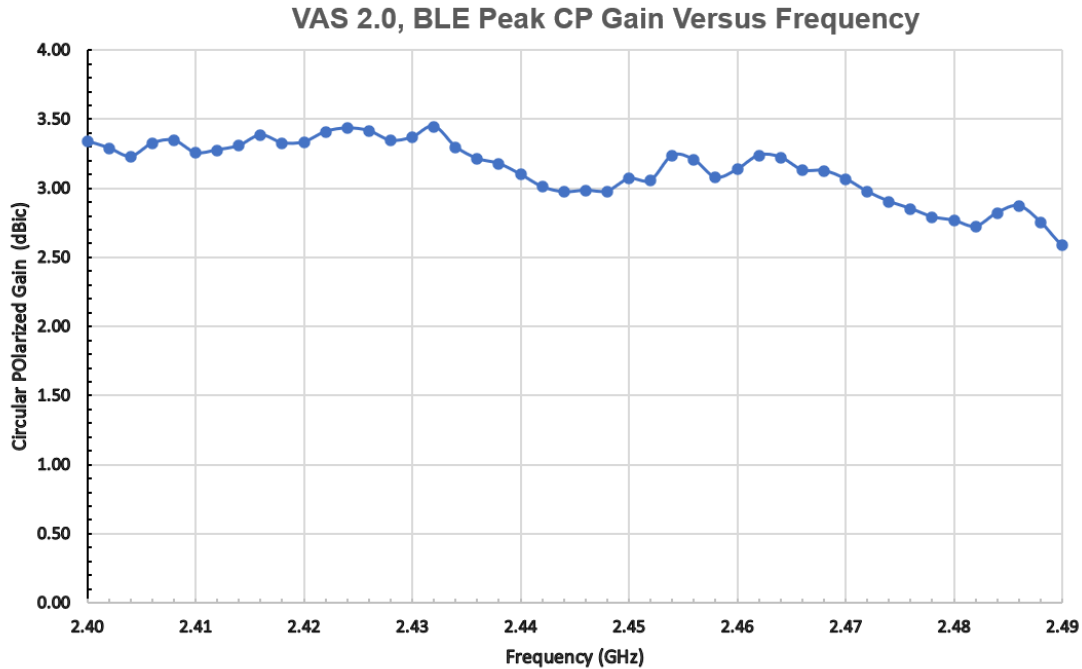
19 February 2024

## VAS 2.0 BLE Antenna

Circularly polarized Inverted F Antennas

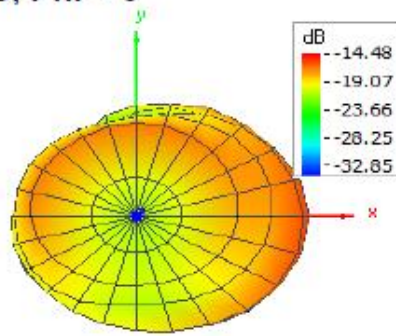
Frequency Range: 2400-2481 MHz

**Maximum Total Gain is 3.45 dBic at around 2.432 GHz**

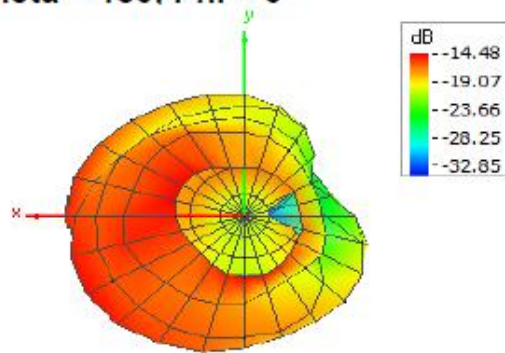


<b>VAS 2.0 BLE Antenna</b>		
Max Gain	2.400 – 2.481 GHz	3.45 dBic at 2.432 GHz
Min Gain	2.400 – 2.481 GHz	2.72 dBic at 2.481 GHz

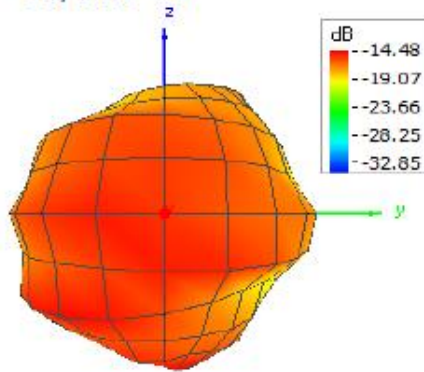
Theta = 0, Phi = 0



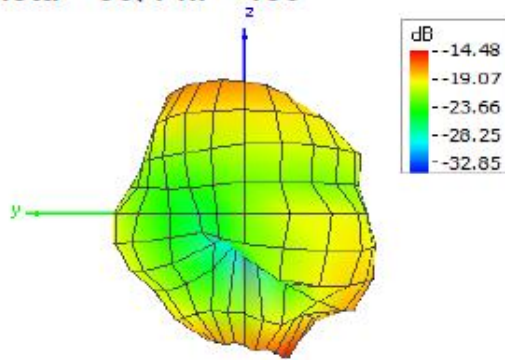
Theta = 180, Phi = 0



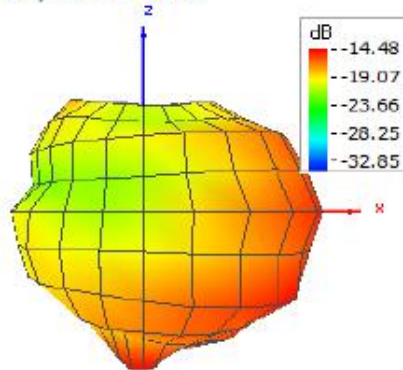
Theta = 90, Phi = 0



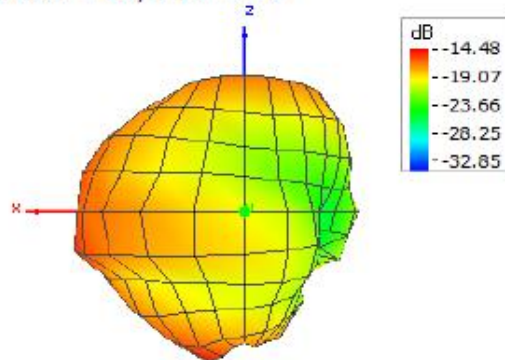
Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90



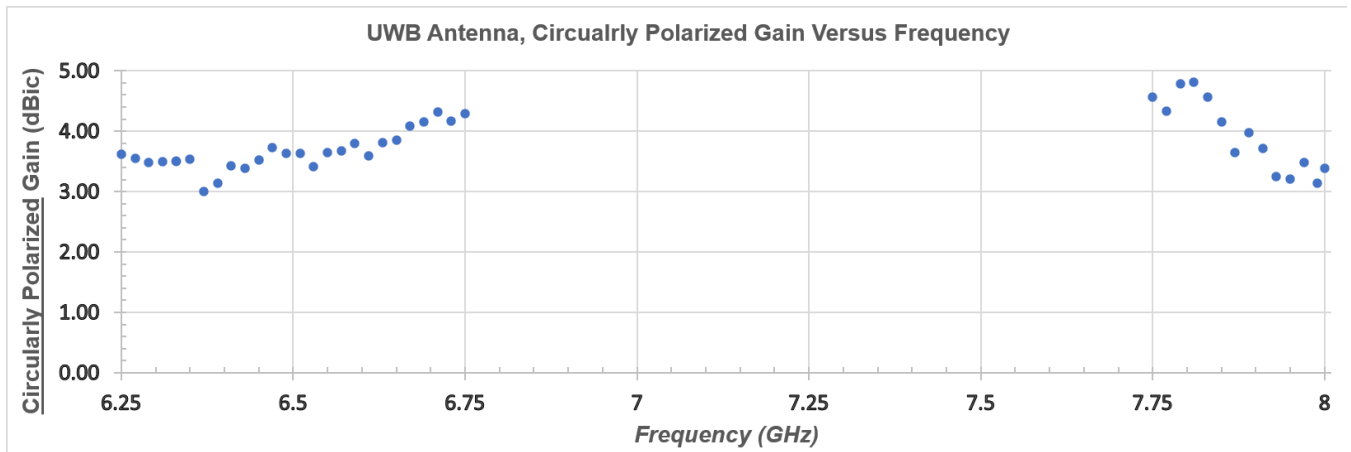
## VAS 2.0 UWB

Dual Band Microstrip Patch Antenna

Frequency Range: UWB Channel 5 (6.250-6.750 GHz) and UWB Channel 9 (7.750-8.250 GHz)

**Channel 5 Maximum Total Circularly Polarized Gain is 4.32dBic at 6.710GHz**

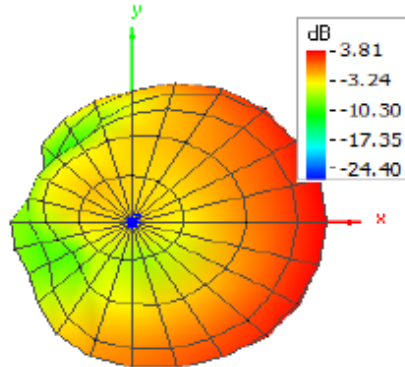
**Channel 9 Maximum Total Circularly Polarized Gain is 4.81dBic at 7.810GHz**



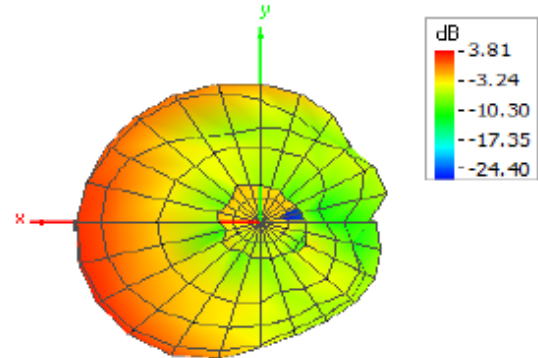
VAS 2.0 UWB Antennas Rev D		
Max Gain Channel 5	6.250 – 6.750 GHz	<b>4.32dBic at 6.710 GHz</b>
Max Gain Channel 9	7.750 – 8.000 GHz	<b>4.81dBic at 7.810GHz</b>

Ch.5

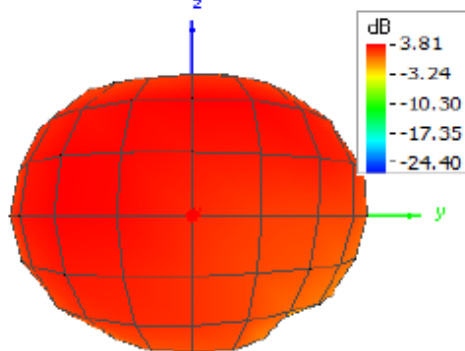
**Theta = 0, Phi = 0**



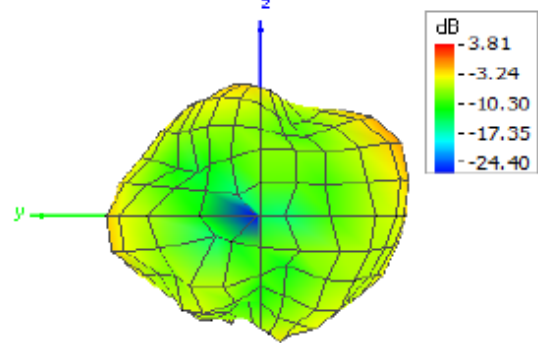
**Theta = 180, Phi = 0**



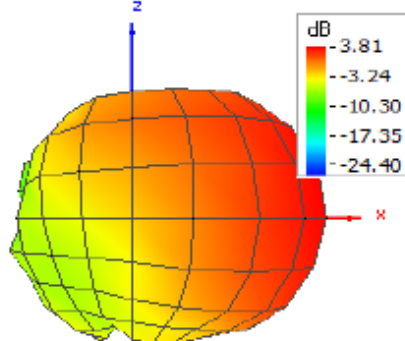
**Theta = 90, Phi = 0**



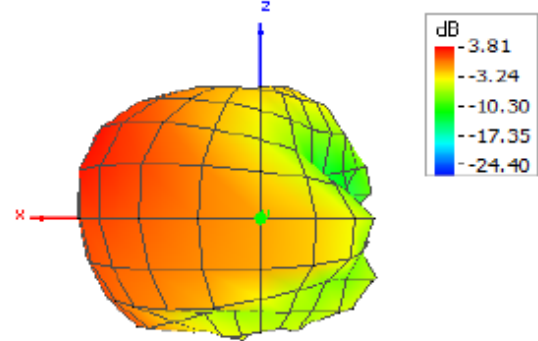
**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**

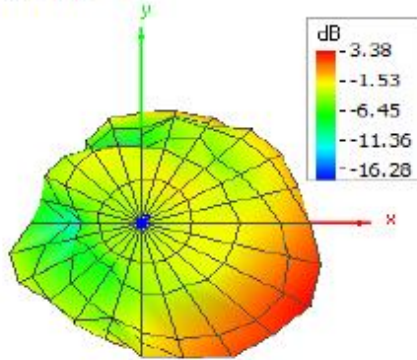


**Theta = 90, Phi = 90**

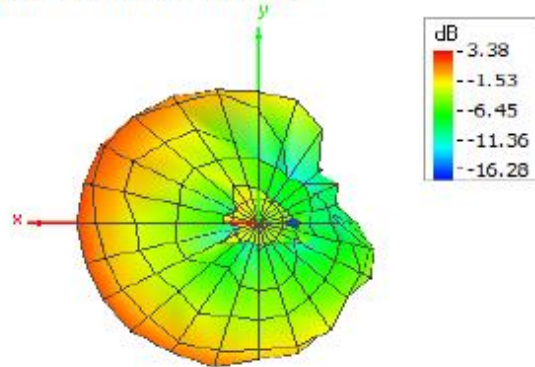


Ch. 9

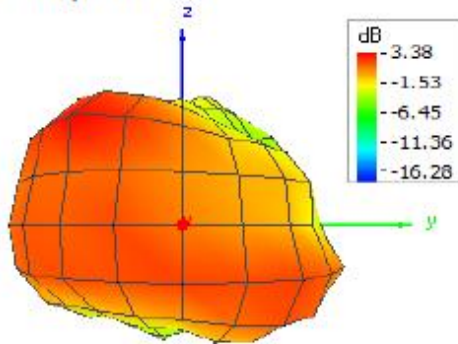
**Theta = 0, Phi = 0**



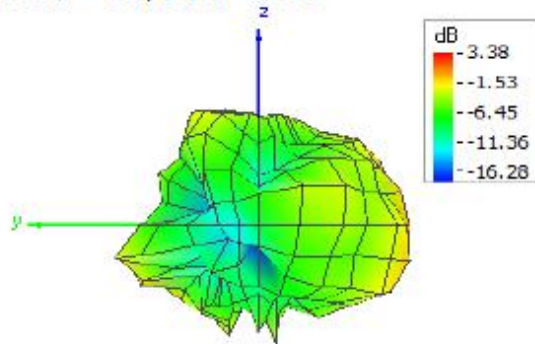
**Theta = 180, Phi = 0**



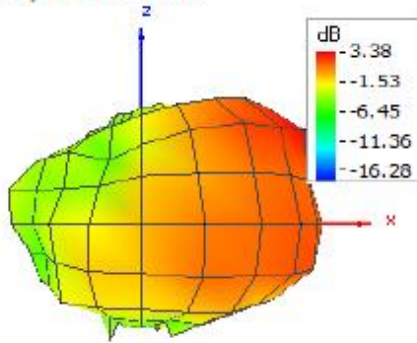
**Theta = 90, Phi = 0**



**Theta = 90, Phi = 180**



**Theta = 90, Phi = 270**



**Theta = 90, Phi = 90**

