

# SolarGaurdX 200 Antenna Report

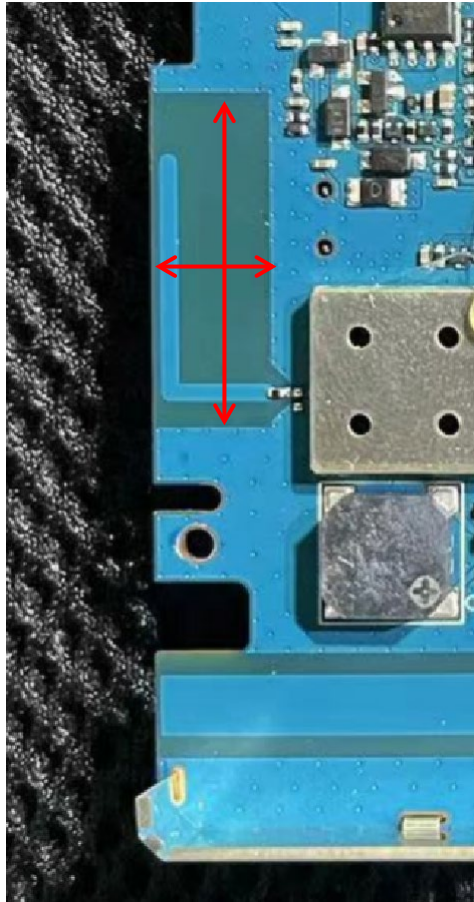
# Device Information

SHENZHEN TOPFLYtech CO., LIMITED  
Rm409 Scientific Research Building Tsinghua, Hi-tech Park Hi-tech Industrial Nanshan District, shenzhen, China

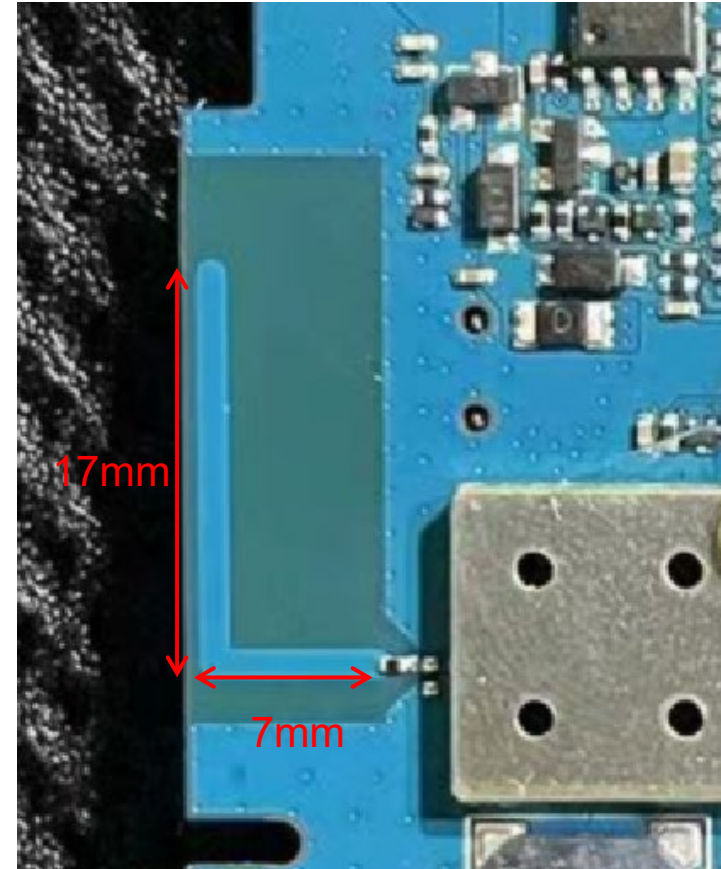
**Device Model:** SolarGuardX 200

Antenna Detail	Antenna Type	Bands & Frequency
Bluetooth Antenna	PCB Printed Antenna	2402~2480MHz

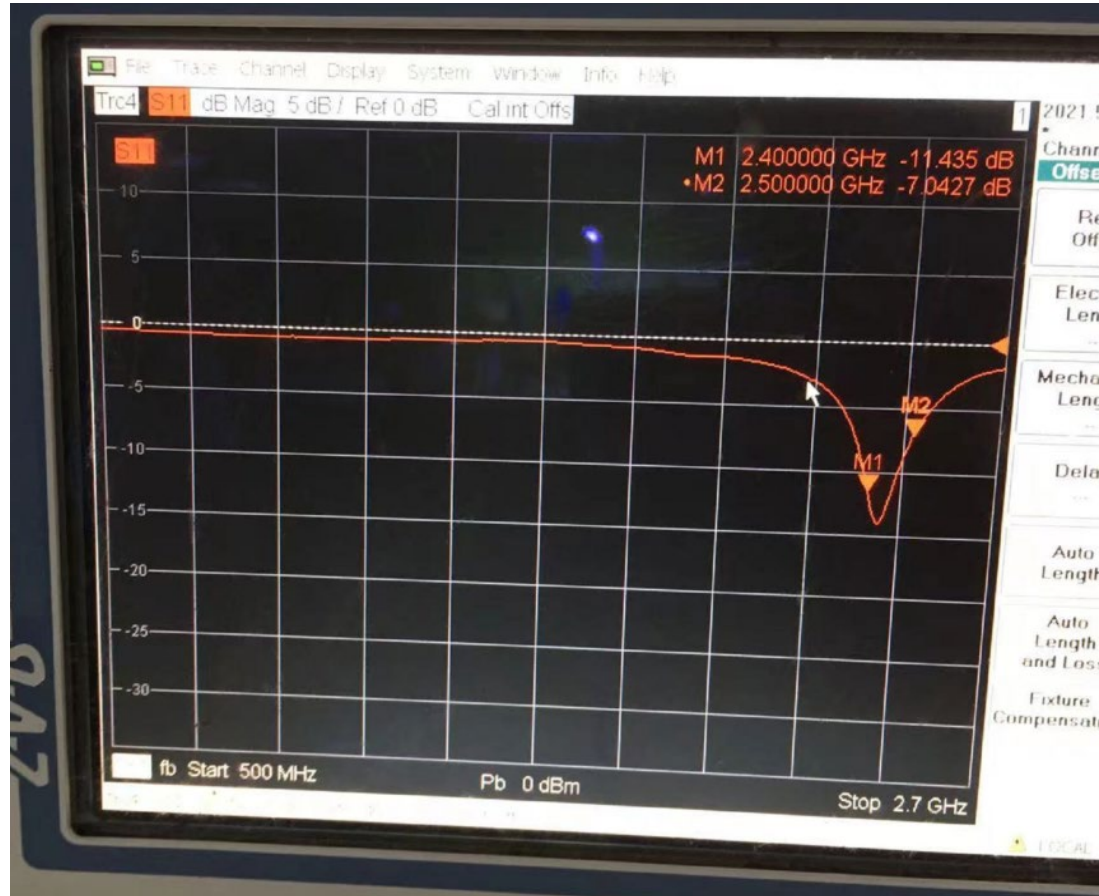
PCB Clearance Area for Antenna: 23mm\*8mm



Antenna Dimensions:



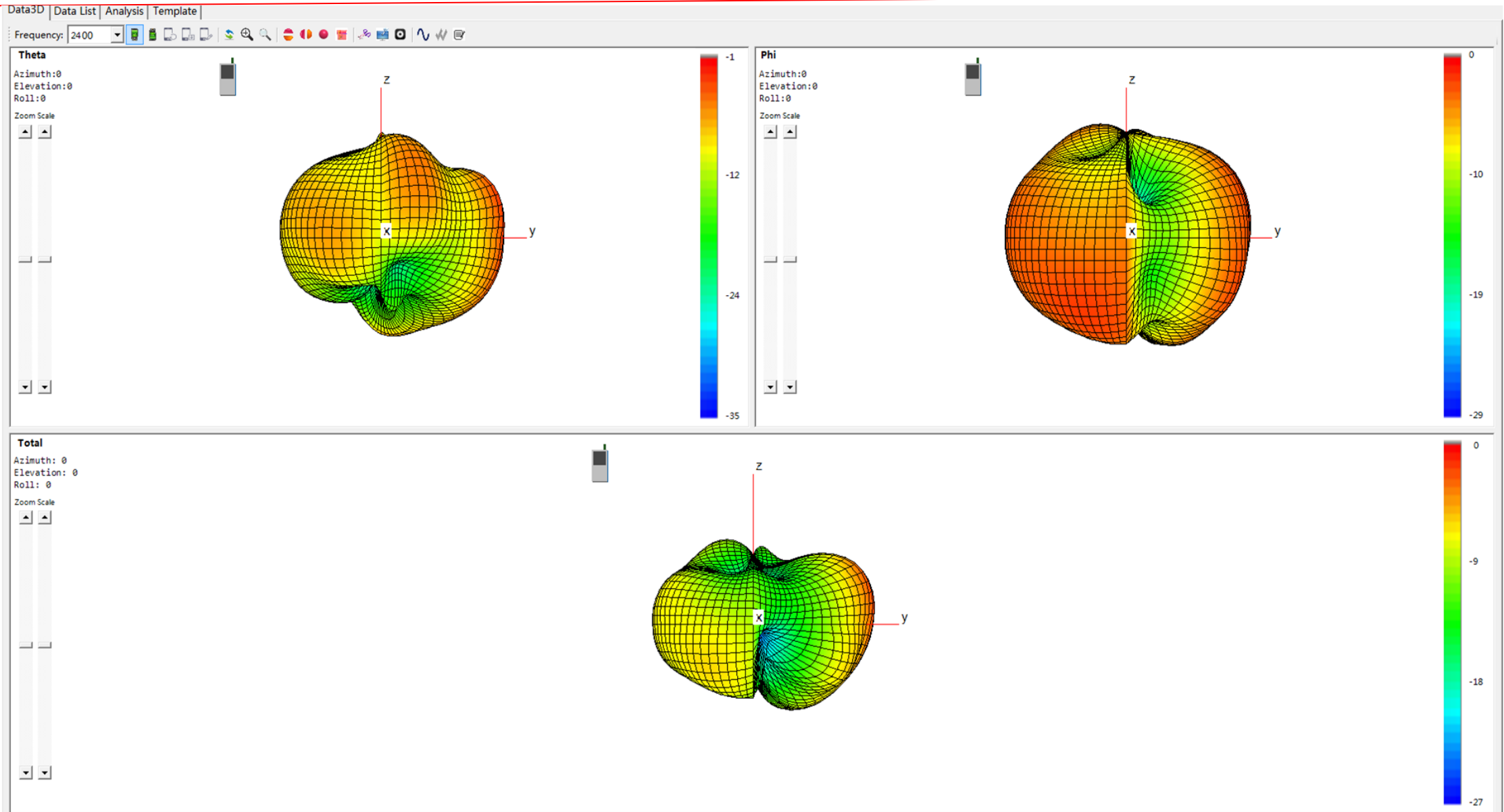
# Bluetooth Antenna Performance — S11



# Bluetooth Antenna Performance — Efficiency and Gain

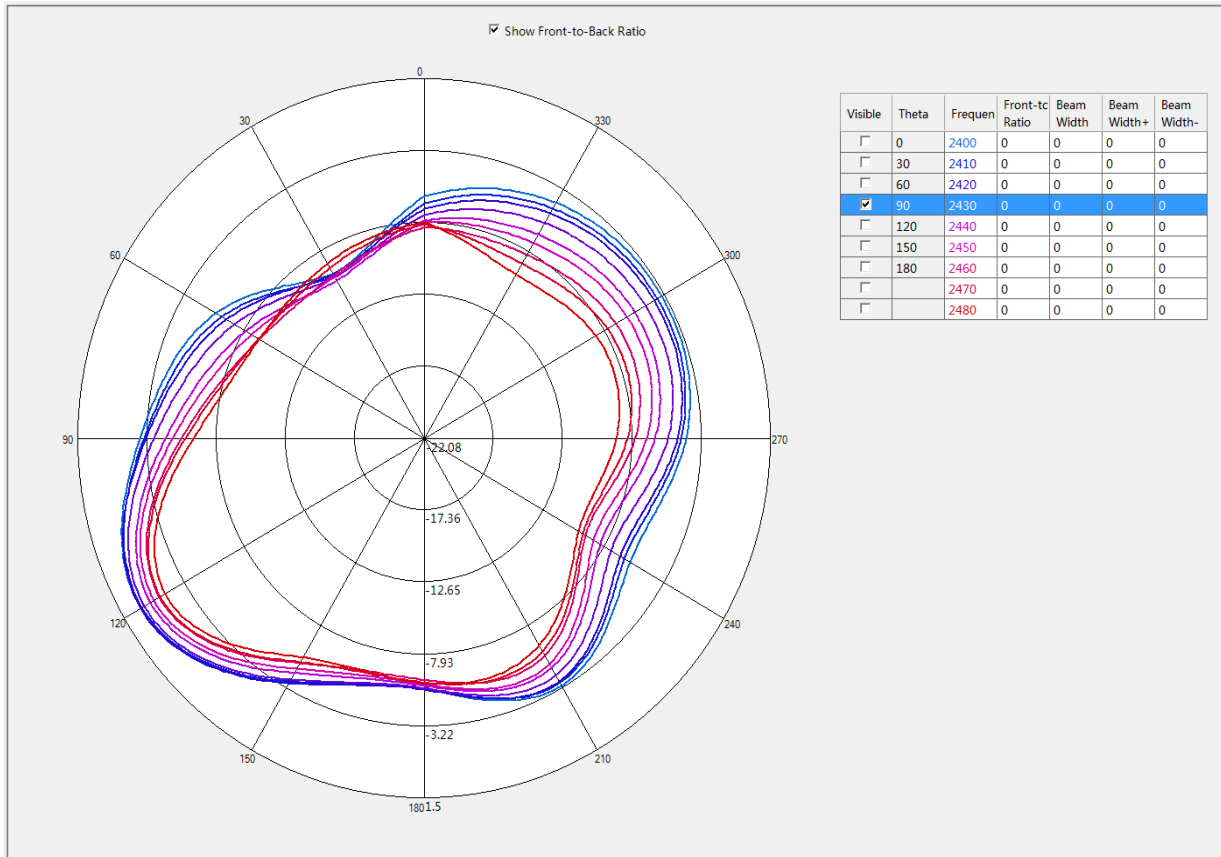
Freq.(MHz)	Efficiency (%)	Efficiency (dB)	Gain(dBi)
2400	34.47%	-4.63	-0.23
2410	35.96%	-4.44	0.01
2420	37.48%	-4.26	0.23
2430	38.96%	-4.09	0.32
2440	40.42%	-3.93	0.42
2450	42.09%	-3.76	0.67
2460	45.53%	-3.42	1.03
2470	46.10%	-3.36	1.10
2480	45.70%	-3.40	1.05
Max	46.10%	-3.36	1.10

# Bluetooth Antenna Performance — Antenna Pattern 1

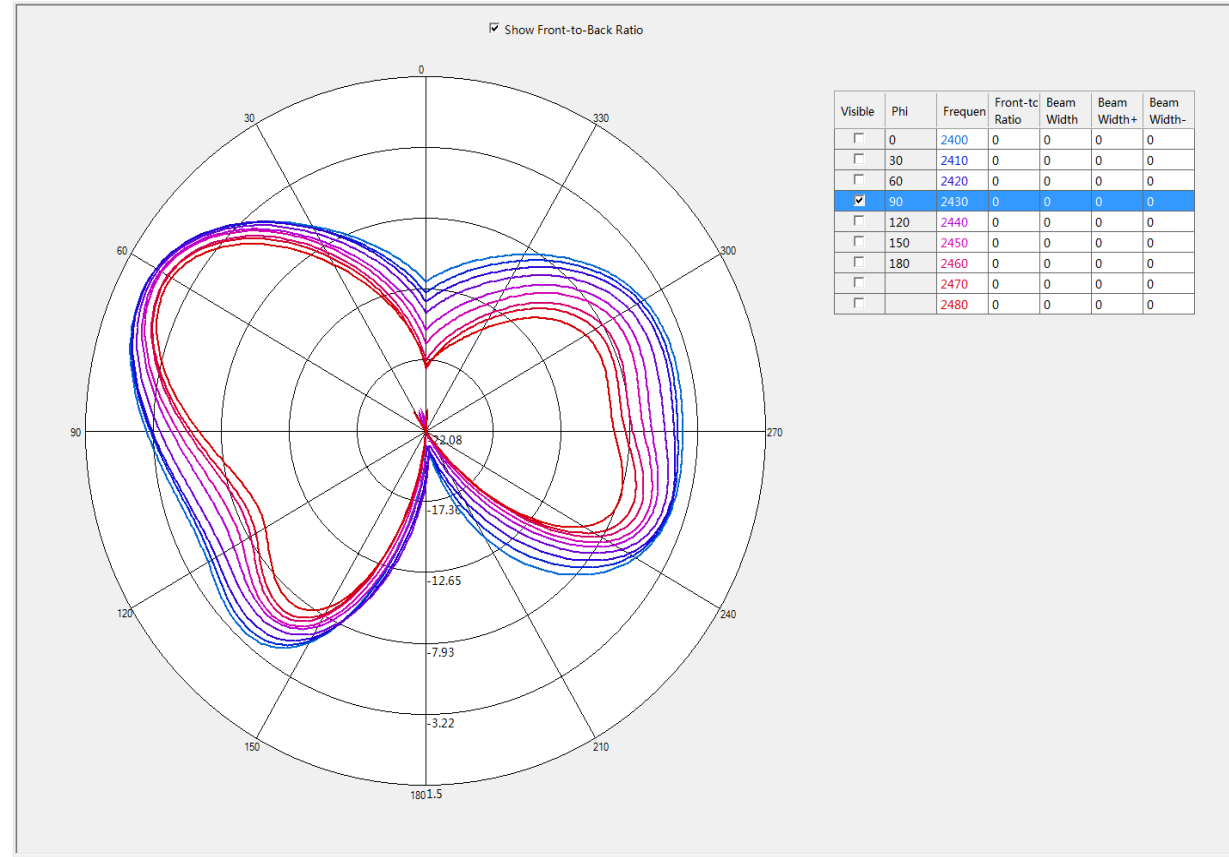




# Bluetooth Antenna Performance — Antenna Pattern 2

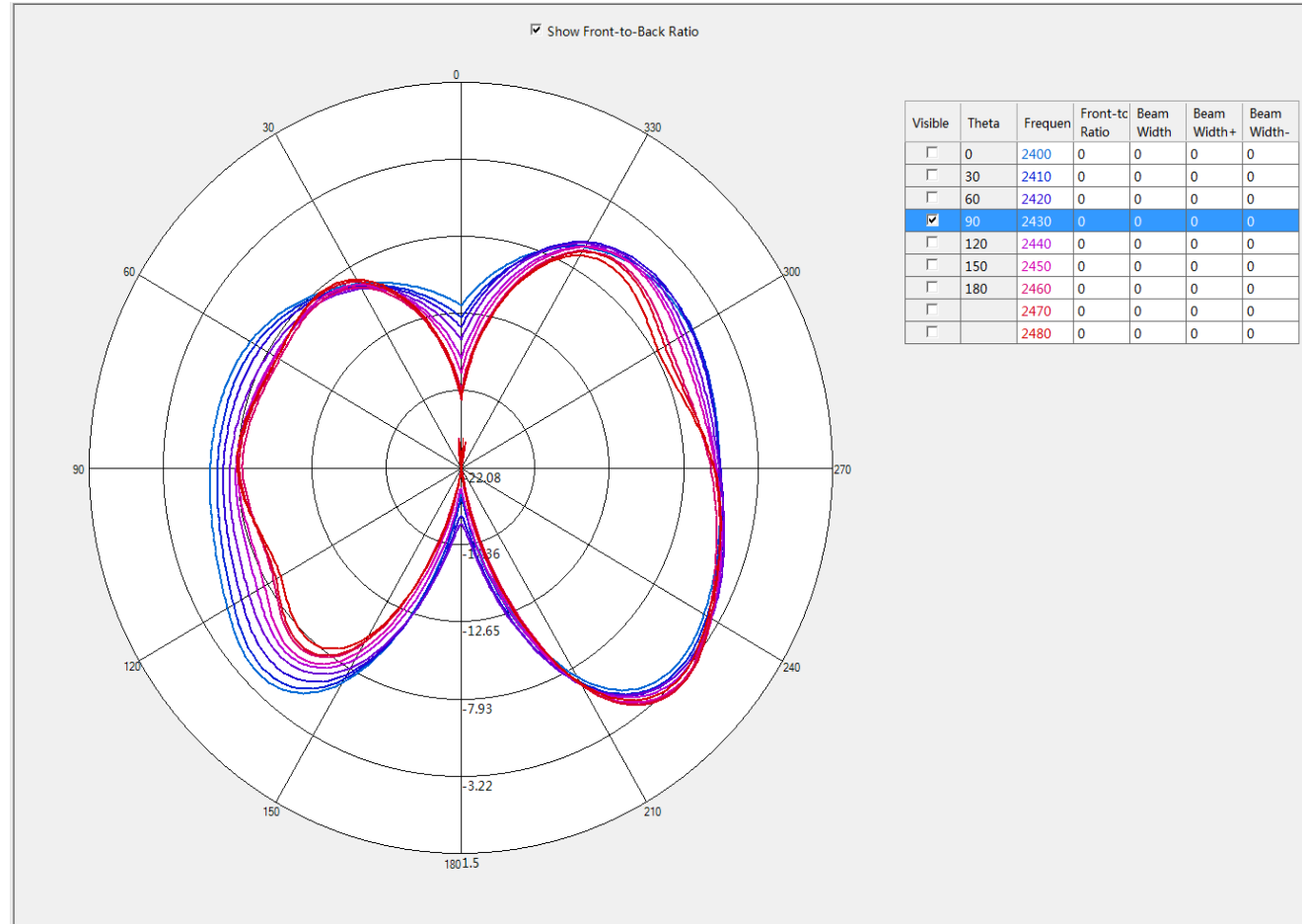


Theta=90°



Phi=90°

# Bluetooth Antenna Performance — Antenna Pattern 3



Phi=0°



# Thank you!



<https://www.linkedin.com/company/topflytech>



<https://www.youtube.com/channel/UCpb24abg40PMrJDeZLIbO5A>