

A-255 Penta-Band GSM Antenna



Features

- Penta-Band GSM Antenna

Specifications

Architecture	
Electrical	
Architecture	PCB
Frequency Band	☒850 MHz ☒900 MHz ☒1800 MHz ☒1900 MHz ☒2100 MHz
Nominal Impedence	50 ohms
V.S.W.R	$\leq 2 : 1$
Return Loss	Please See Appendix
Polarization	Vertical
Typical Gain	0.39 dBi \pm 1 dB@850MHz 0.95 dBi \pm 1 dB@900MHz -1.99 dBi \pm 1 dB@1800MHz -1.85 dBi \pm 1 dB@1900MHz -2.54 dBi \pm 1 dB@2100MHz
Pattern Type	Omni-Directional

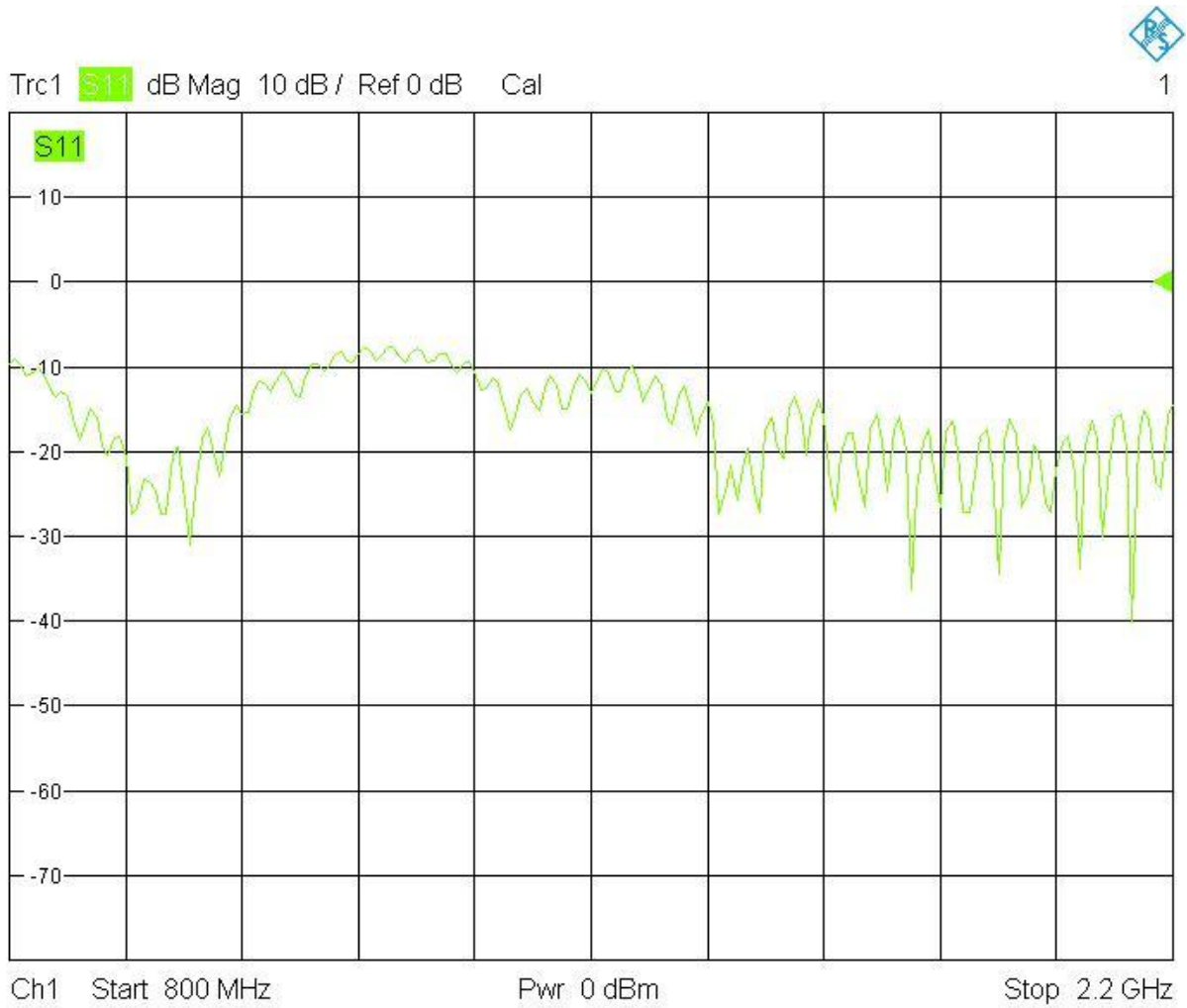
Mechanical & Environmental	
Antenna Cover	Polyurethane
Cable	3 meters
Connector	SMA St. Plug
Mounting	Double-side tape
Housing Color	Black
Working Temperature	-20°C to + 60°C
Storage Temperature	-30°C to +75°C
Humidity	95% @ 55°C

Output Terminal	
Coax Connector	BNC, SMB, Fakra, SMA, MCX, MMCX, GT5 or on request
Cable Length	3M, 5M or upon request
Cable Color	Black

Ordering Information

APPENDIX

Return Loss (S11)



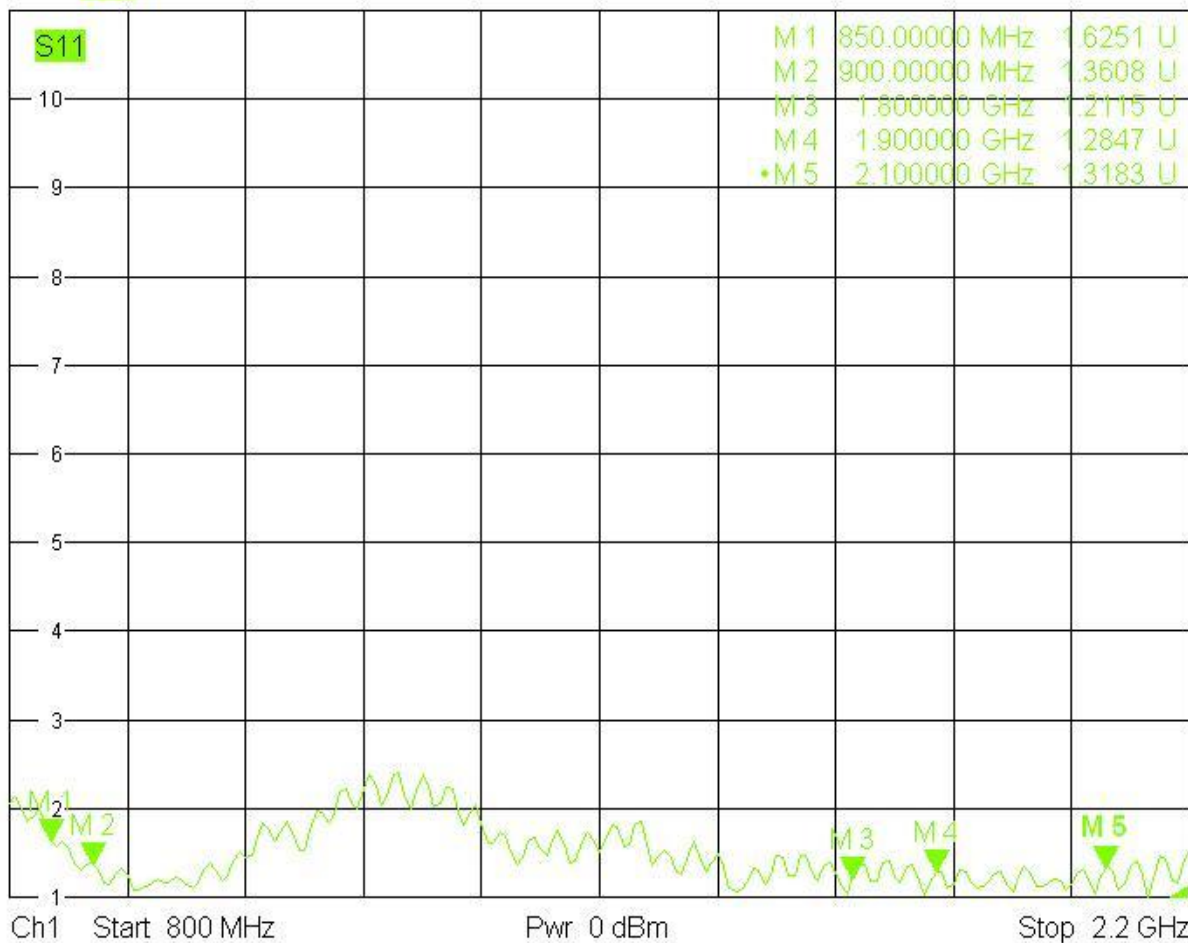
5/7/2010, 2:02 PM

V.S.W.R (S11)



Trc1 S11 SWR 1 U/ Ref 1 U Cal

1



5/7/2010, 2:10 PM

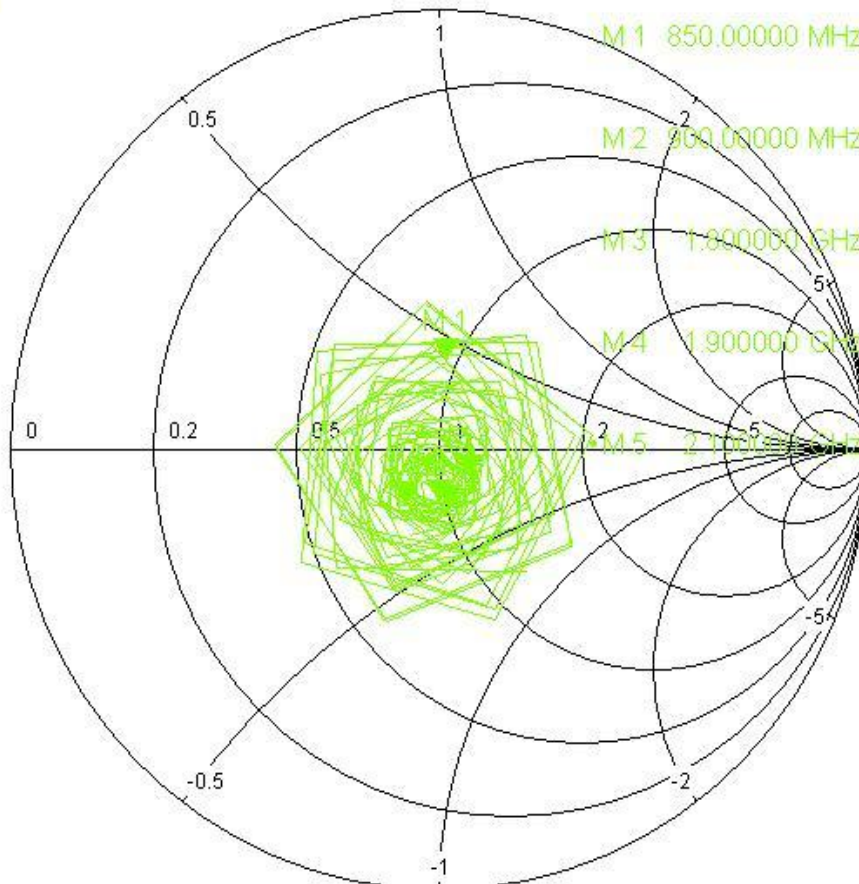
Impedance (S11)

Trc1 S11 Smith Ref 1 U Cal



1

S11



M1	850.00000 MHz	48.441 Ω
		$j23.618 \Omega$
		4.422 nH
M2	900.00000 MHz	40.088 Ω
		$-j10.604 \Omega$
		16.676 pF
M3	1.800000 GHz	58.670 Ω
		$-j6.1563 \Omega$
		14.362 pF
M4	1.900000 GHz	48.316 Ω
		$-j12.159 \Omega$
		6.889 pF
M5	2.200000 GHz	51.518 Ω
		$-j14.076 \Omega$
		5.384 pF

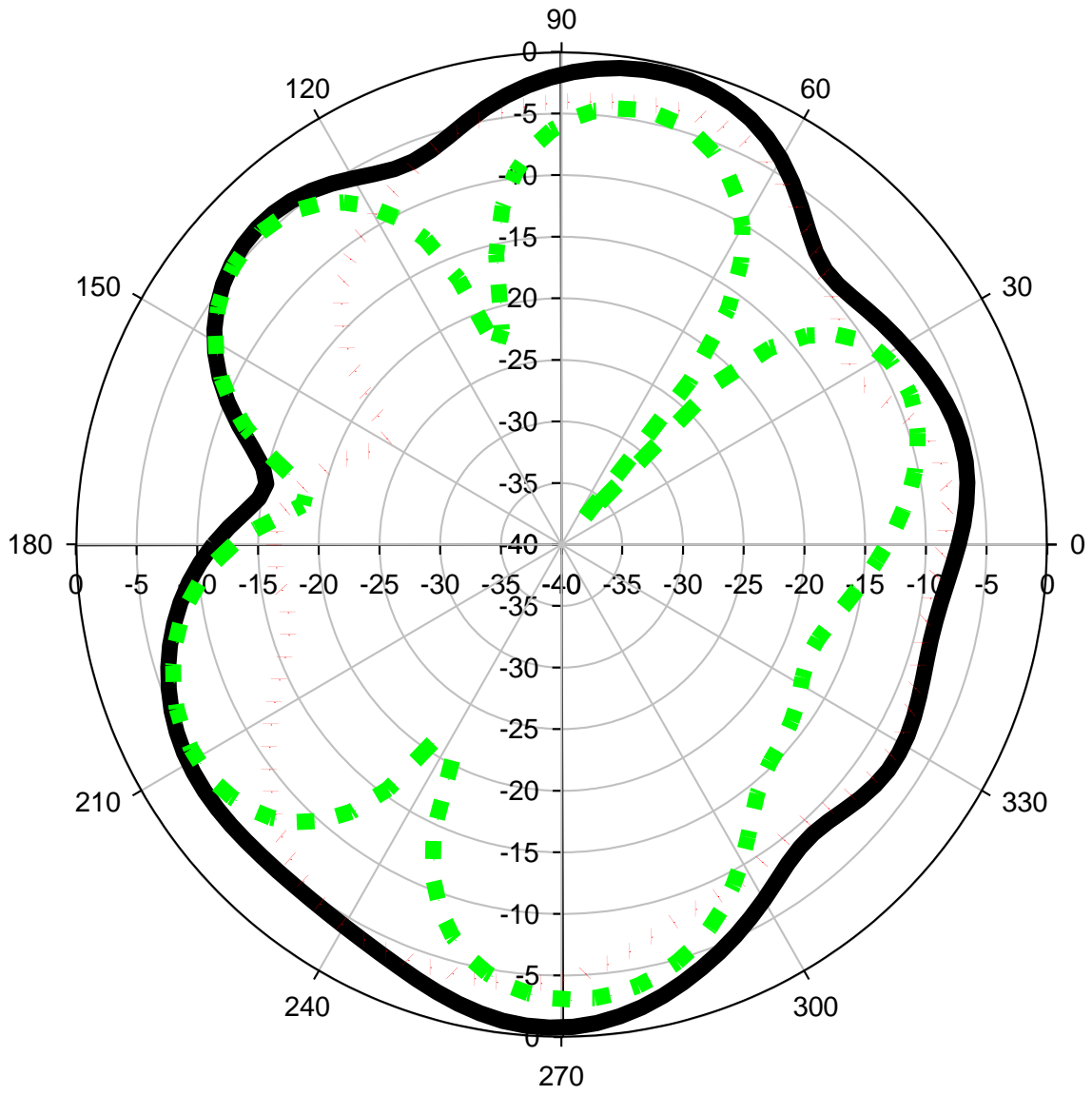
Ch1 Start 800 MHz
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Pwr 0 dBm

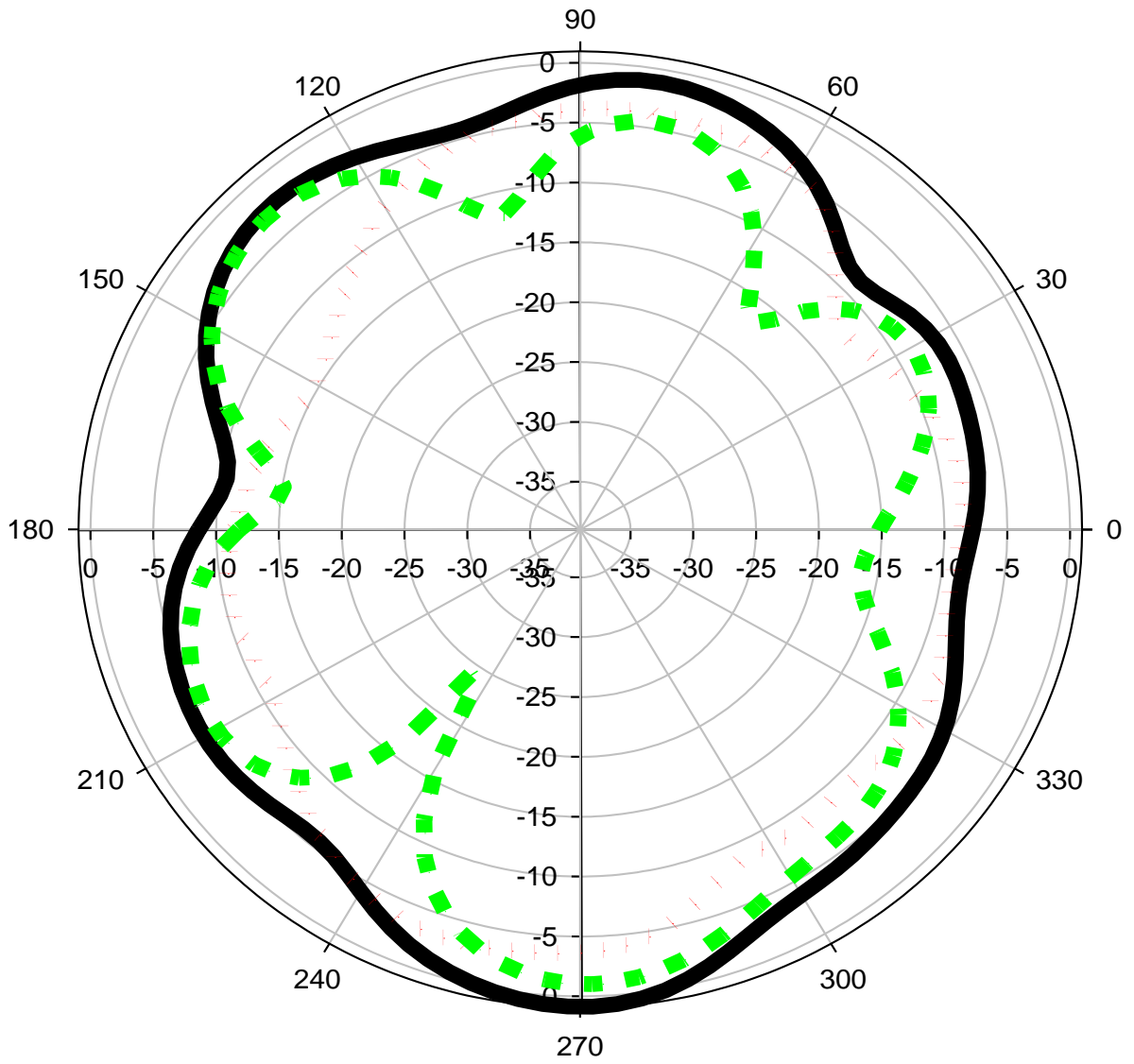
Stop 2.2 GHz

Antenna Pattern

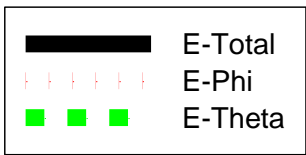
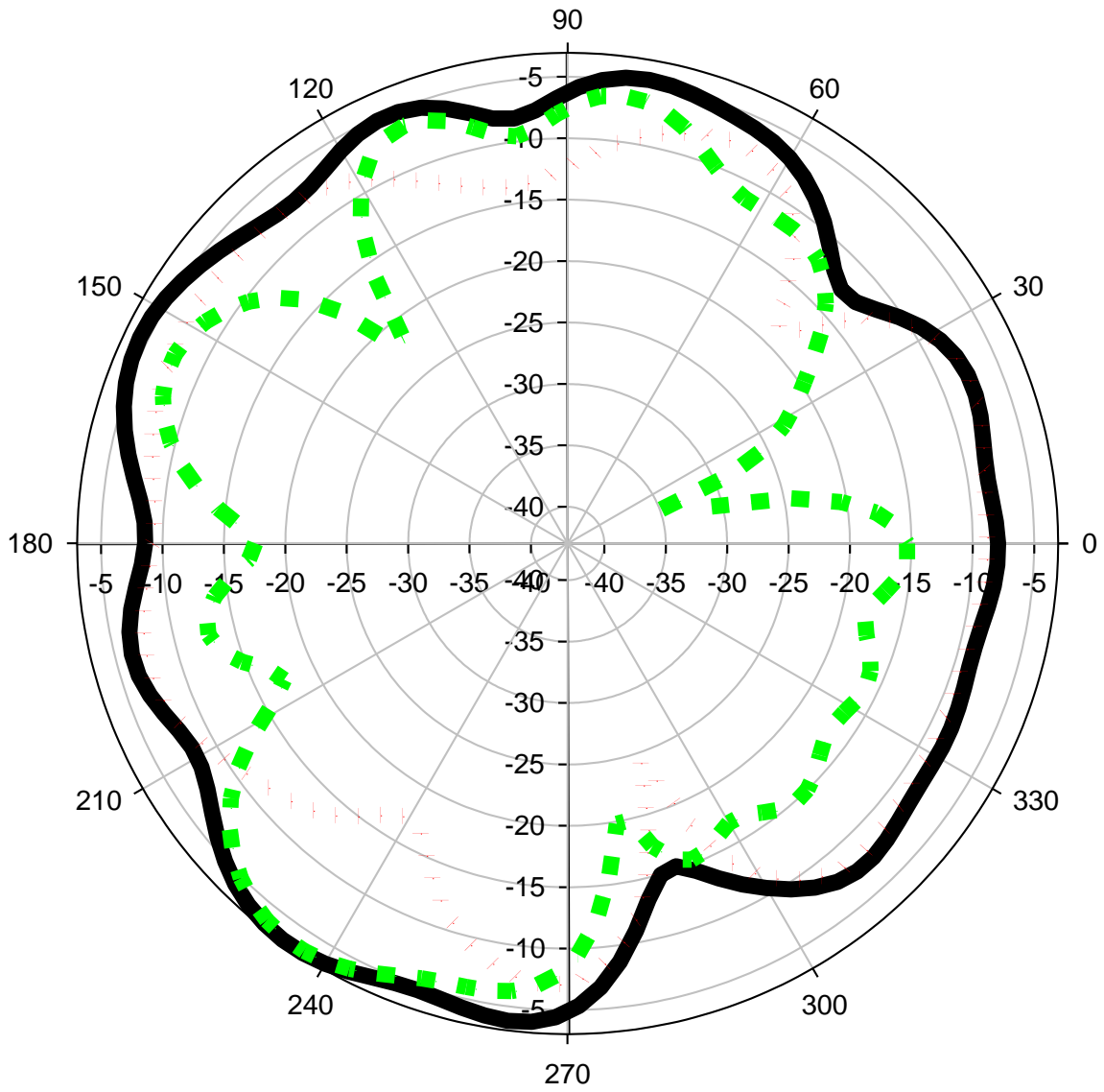
850MHz



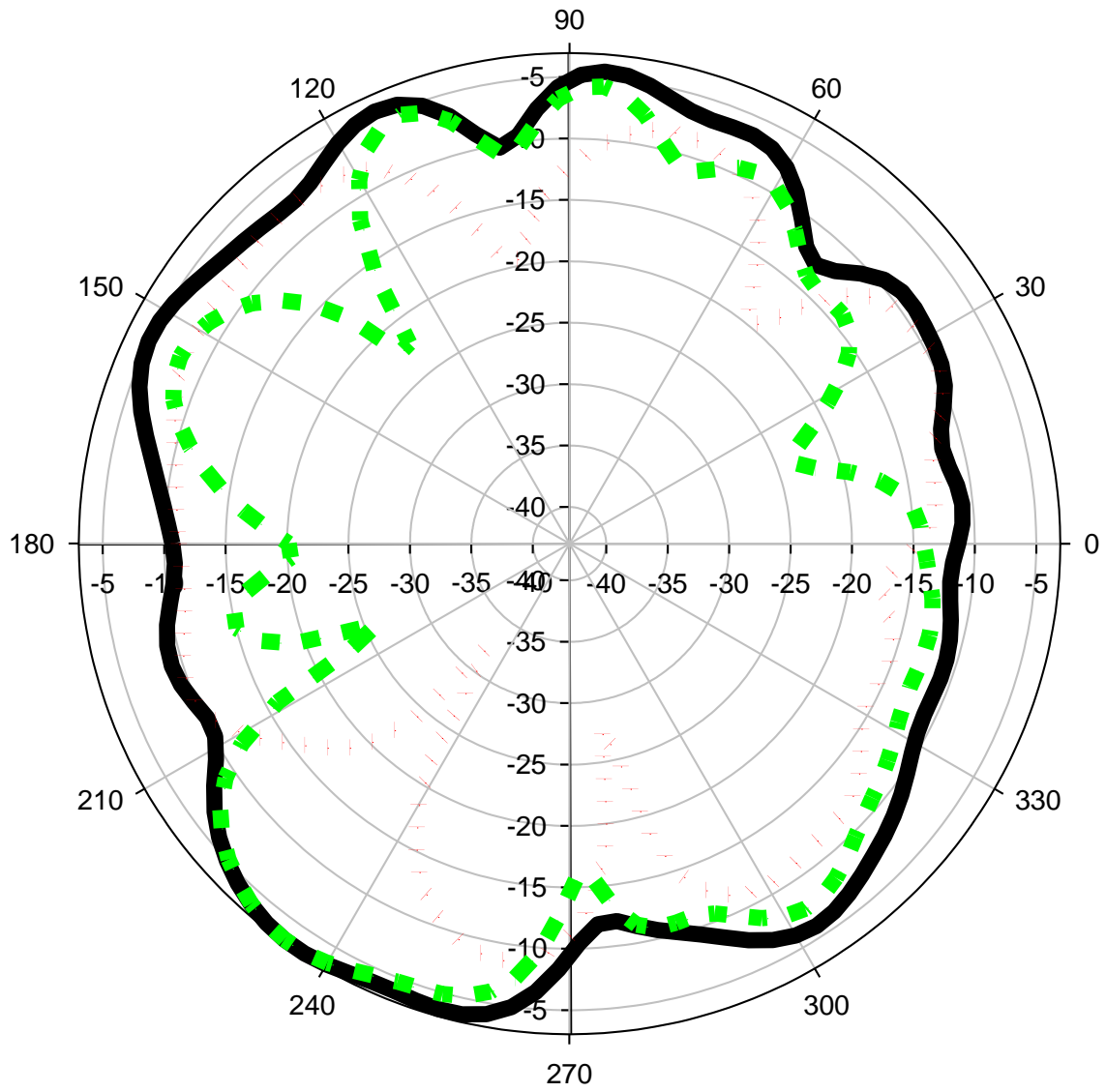
900MHz



1800MHz



1900MHz



2100MHz

