

Table 3-11 Antenna Section

Parameter		Symbol	Conditions	Limits			Unit
				Min	Typ	Max	
E1	RX antenna Gain	Grxa	$f_{RF}=24.15\text{GHz}$		2		dBi
E2	TX antenna Gain	Gtxa	$f_{RF}=24.15\text{GHz}$		2		dBi

Table 3-12 LO Section

Parameter		Symbol	Conditions	Limits			Unit
				Min	Typ	Max	
E3	LO frequency	fLO		24.059		24.24	GHz
E4	PLL lock-up time	Tlock	$\Delta f < 1\text{MHz}$			30	μs

A. Appendix

Antenna pattern (Reference)

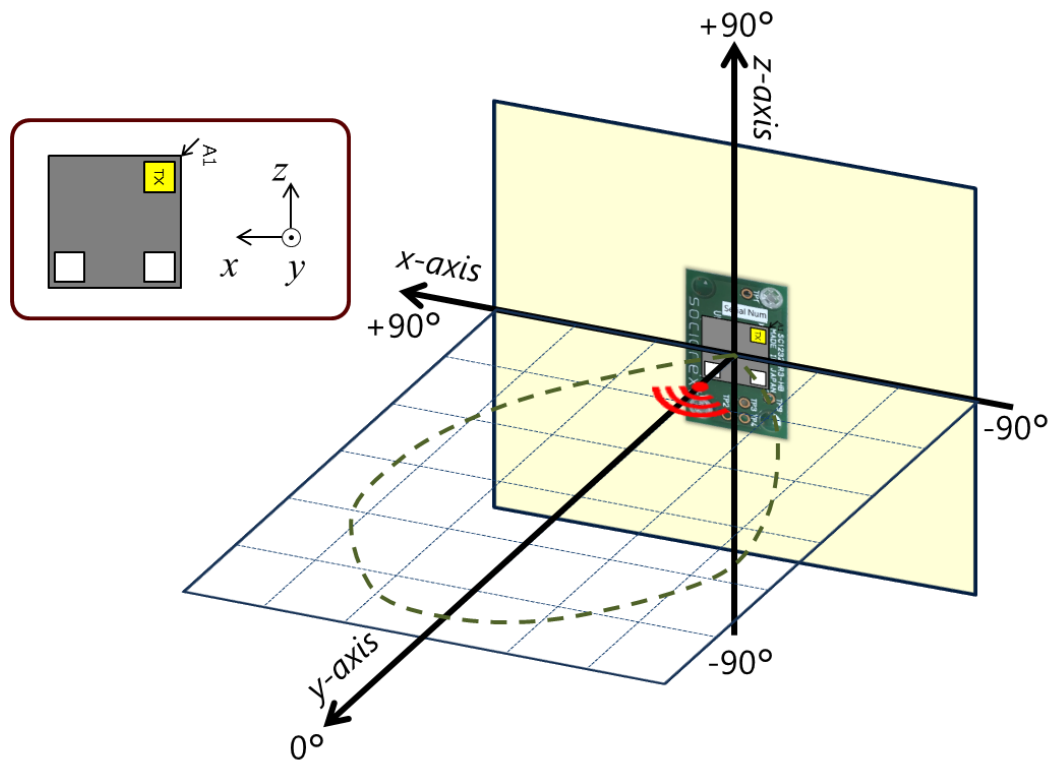


Figure A-1 xyz-axes and angle

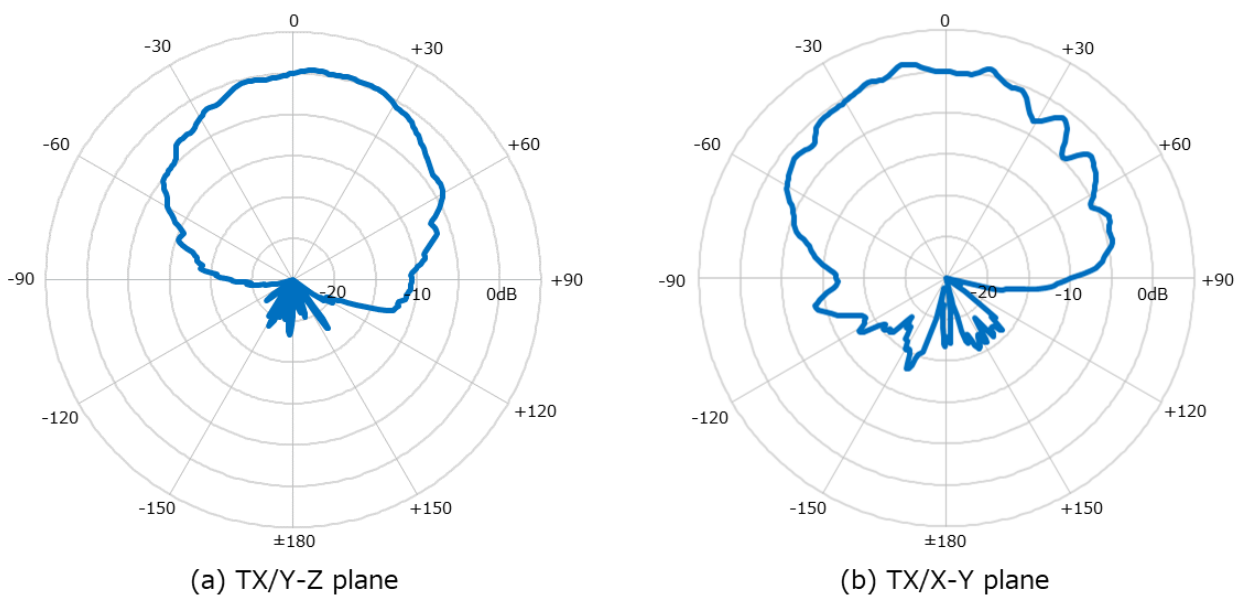
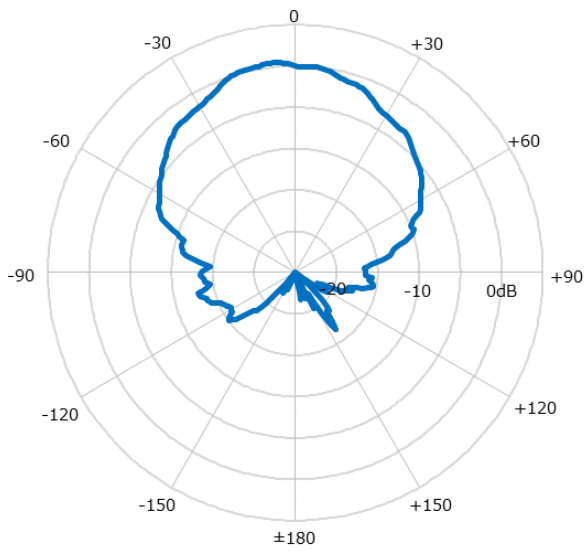
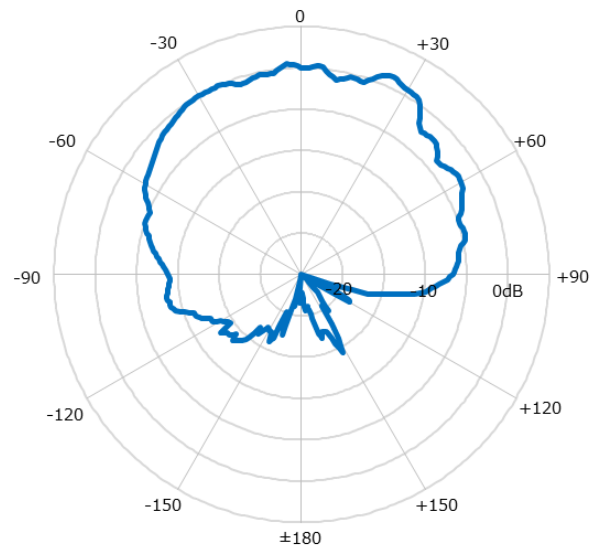


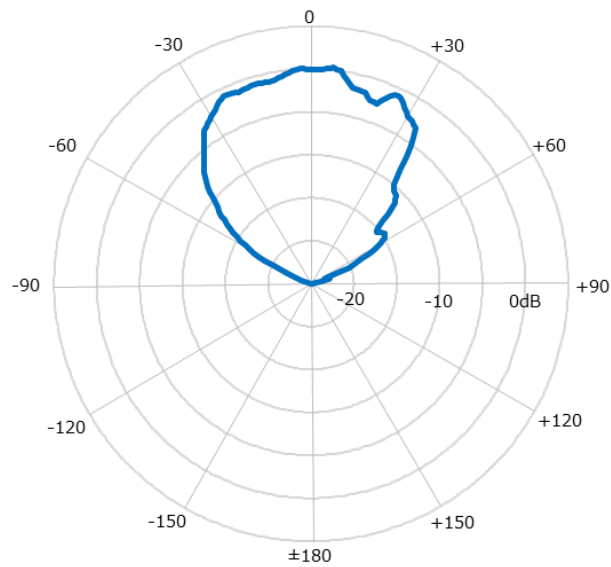
Figure A-2 Measured TX antenna pattern at 24.15GHz (Normalized 0-degree power to 0dB)



(a) RX/Y-Z plane



(b) RX/X-Y plane
(without Digital Beam Shaping)



(c) RX/X-Y plane
(with Digital Beam Shaping)

Figure A-3 Measured RX antenna pattern at 24.15GHz (Normalized 0-degree gain to 0dB)