



USB Dongle Report

2024.6.27

V1

Revision Record



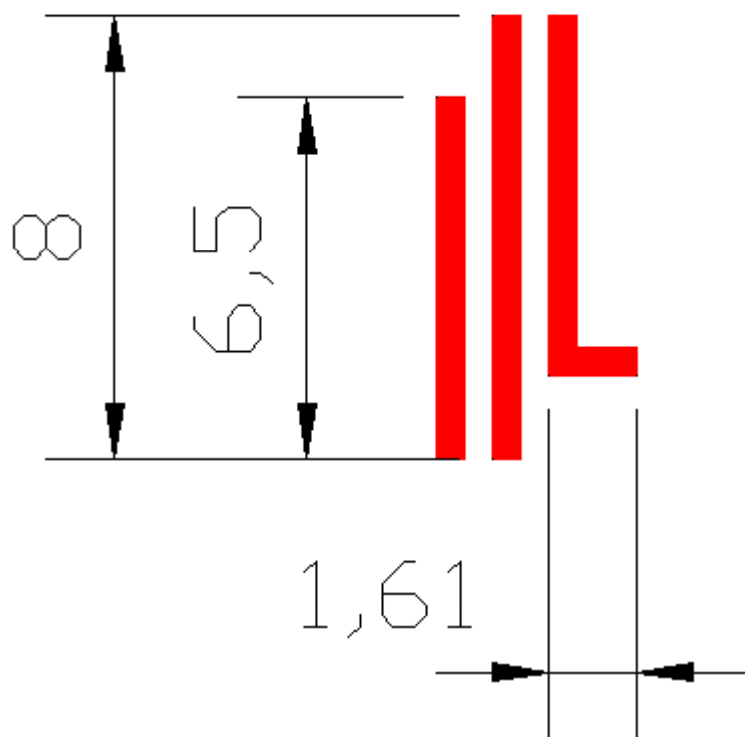
Ver.	Date	Revision
V1	2024/06/27	new

Antenna Specification

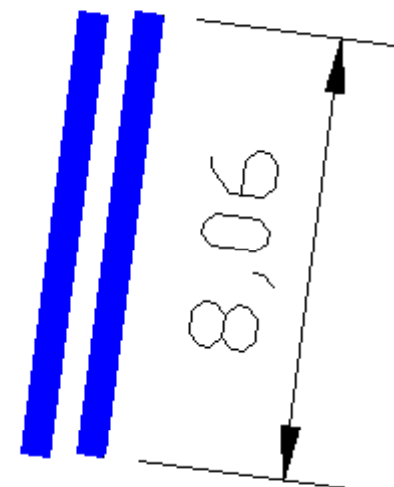
Item	Spec	
Antenna type	PCB Antenna	
Frequency	2405M	-0.94dBi
	2447M	-0.92dBi
	2476M	-1.83dBi
Pattern	Omni-directional	
Impedance	50 Ohm	
Antenna Length	36mm	

Antenna Photo&Length(mm)

TOP

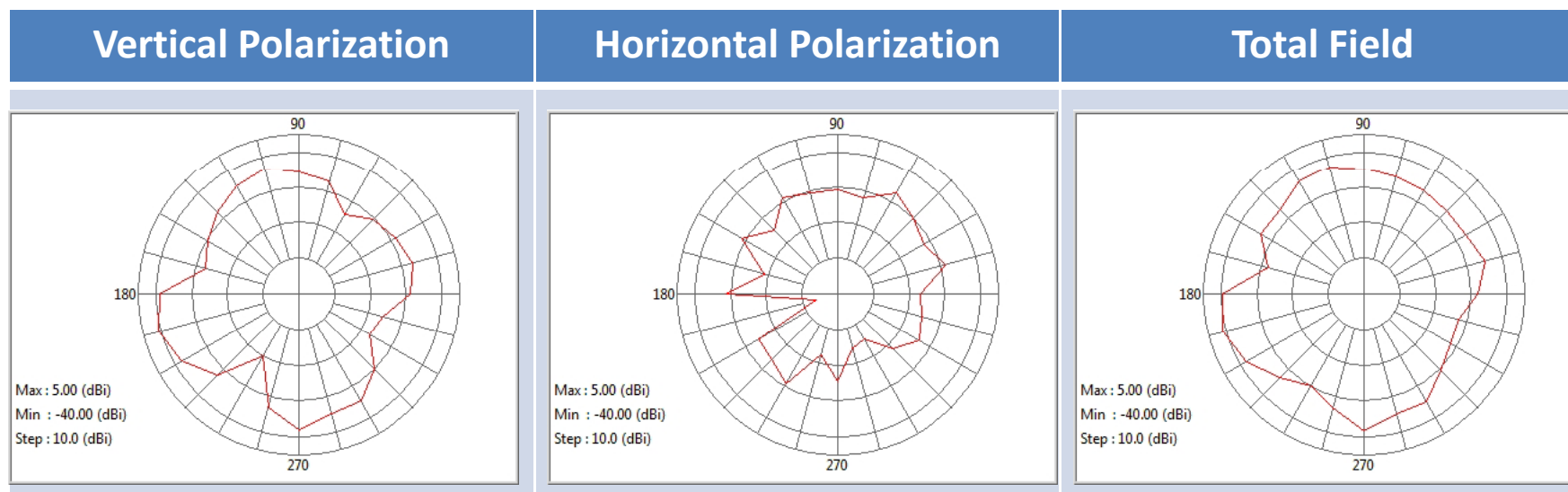


BOT



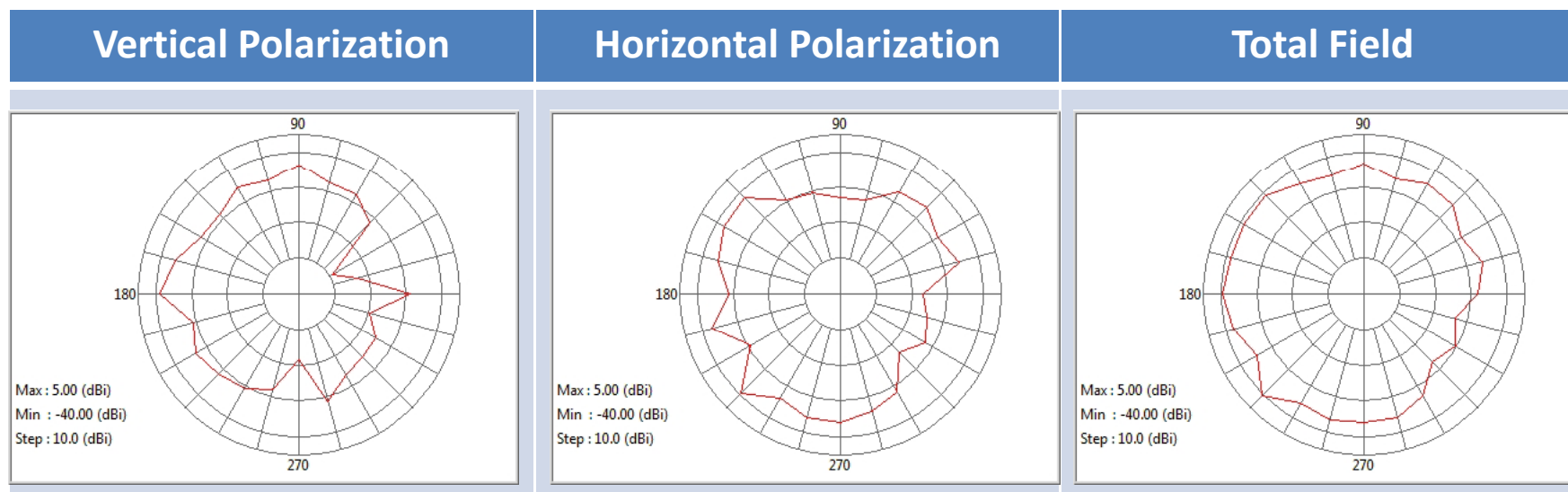
Radiation pattern

XZ Plane for 2.405GHz



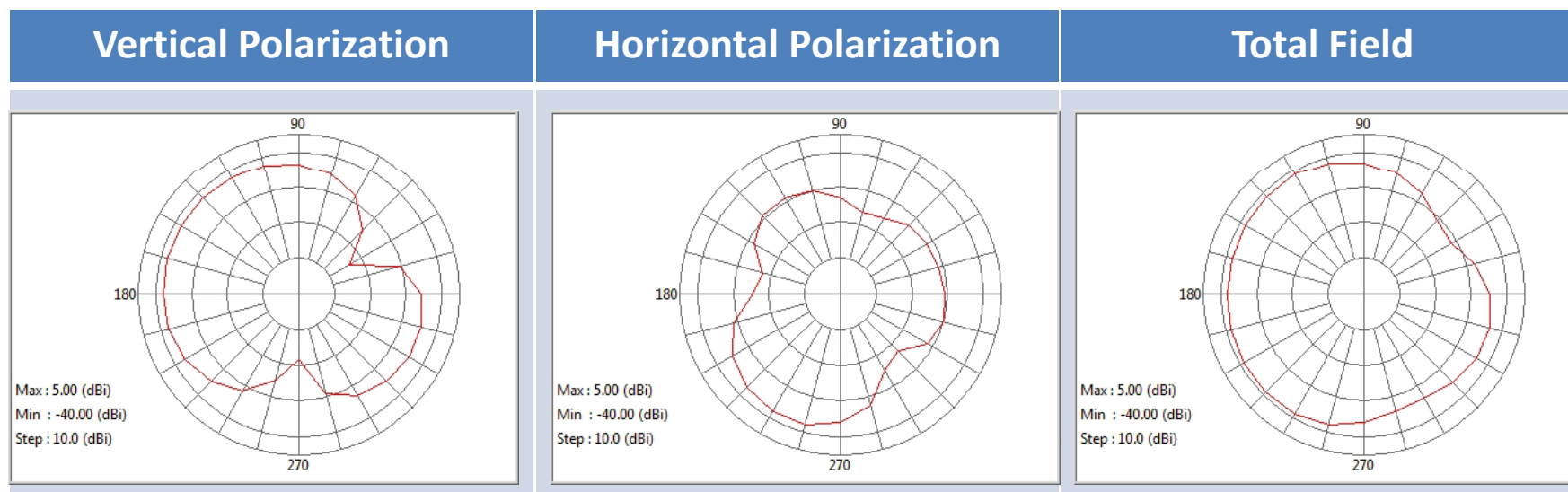
Radiation pattern

YZ Plane for 2.405GHz



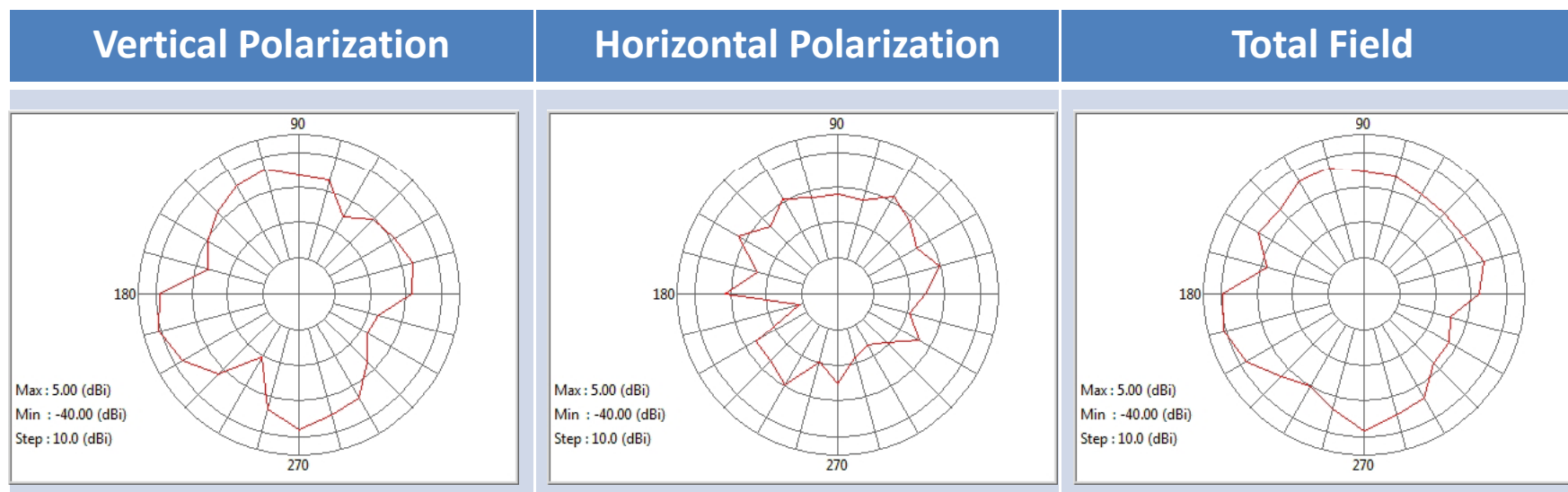
Radiation pattern

XY Plane for 2.405GHz



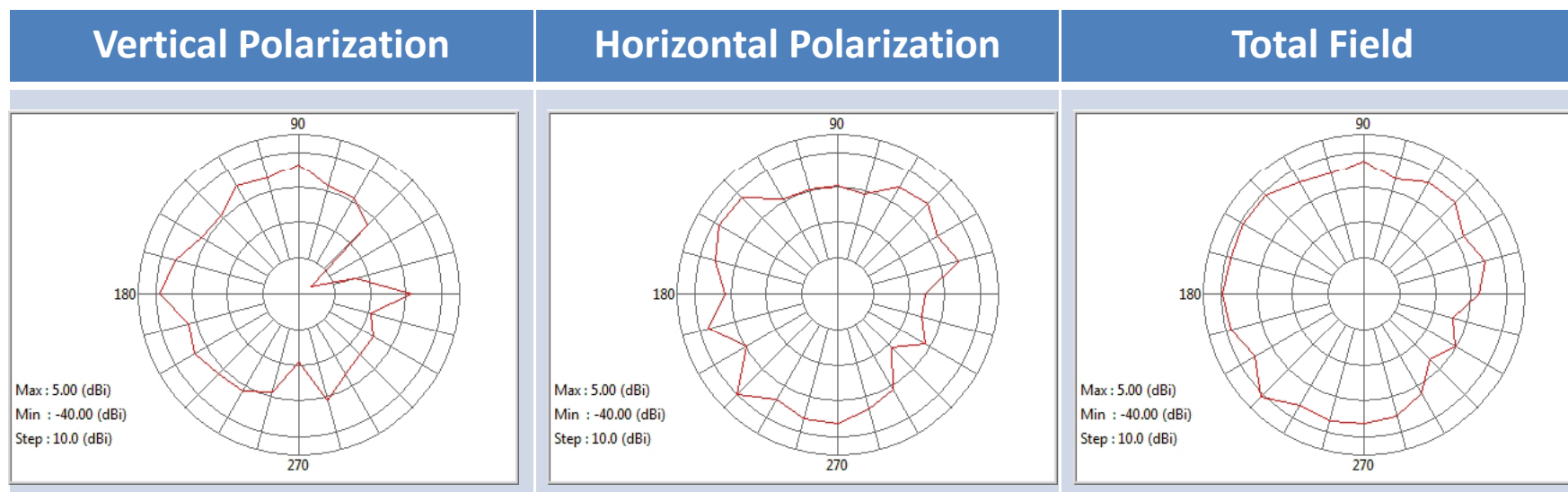
Radiation pattern

XZ Plane for 2.447GHz



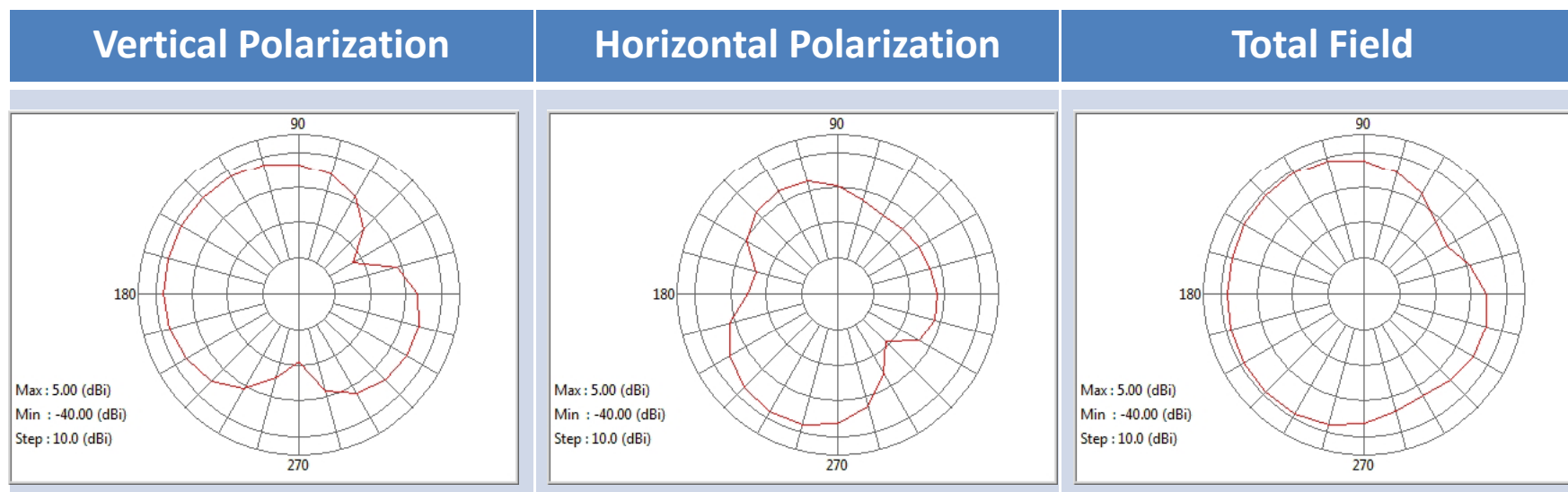
Radiation pattern

YZ Plane for 2.447GHz



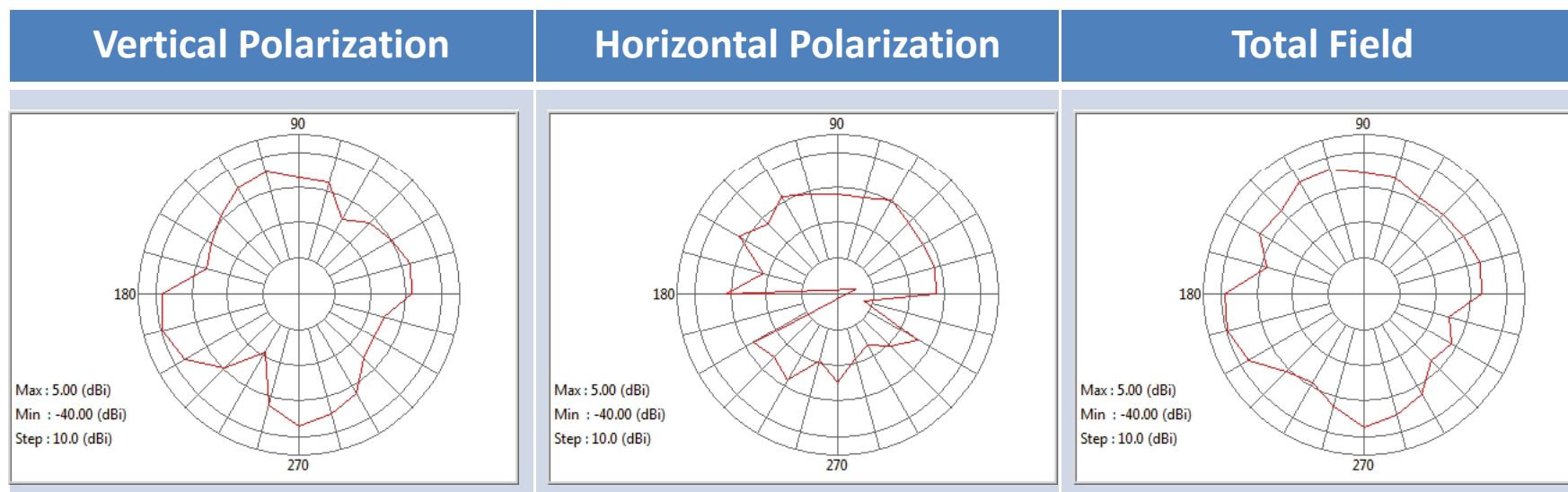
Radiation pattern

XY Plane for 2.447GHz



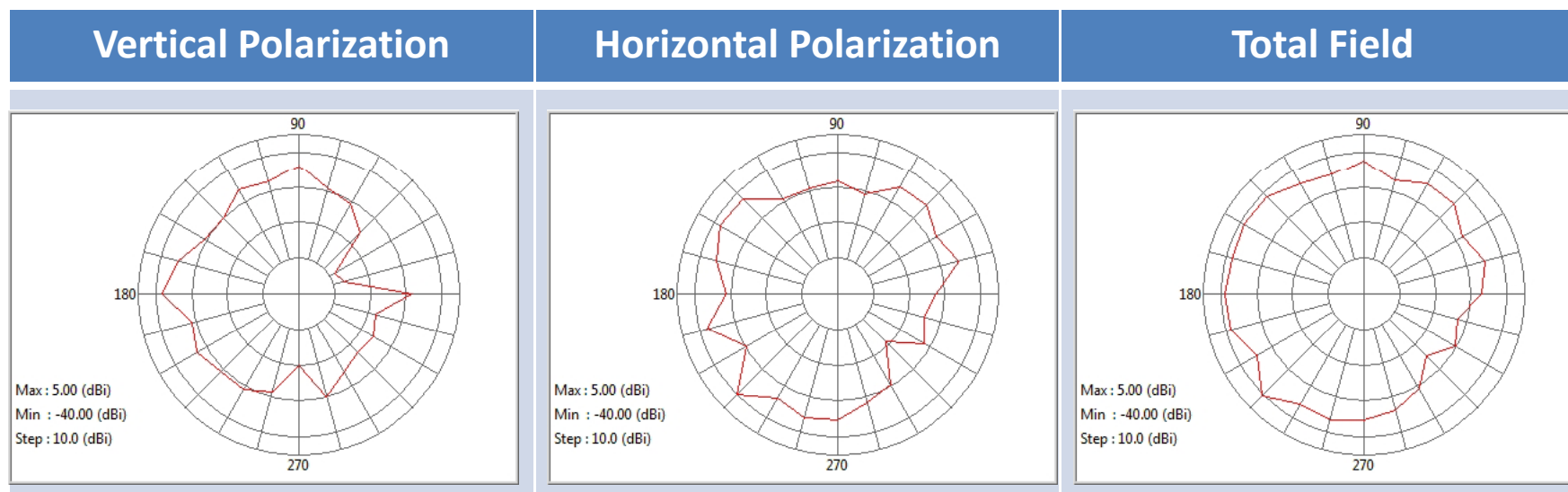
Radiation pattern

XZ Plane for 2.476GHz



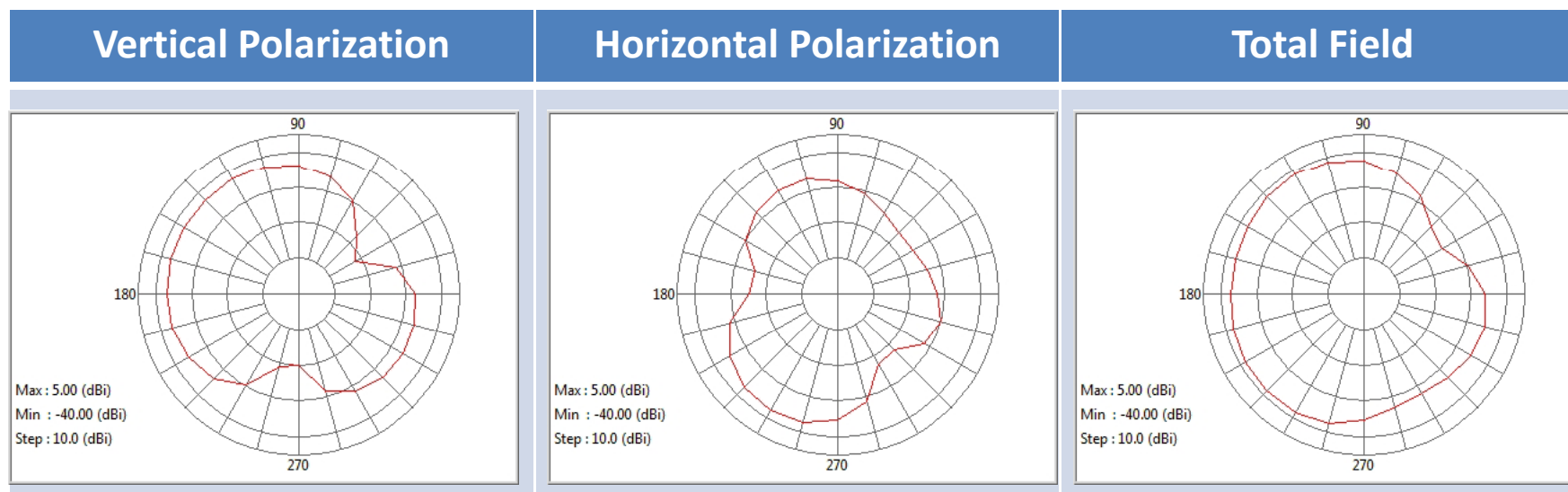
Radiation pattern

YZ Plane for 2.476GHz

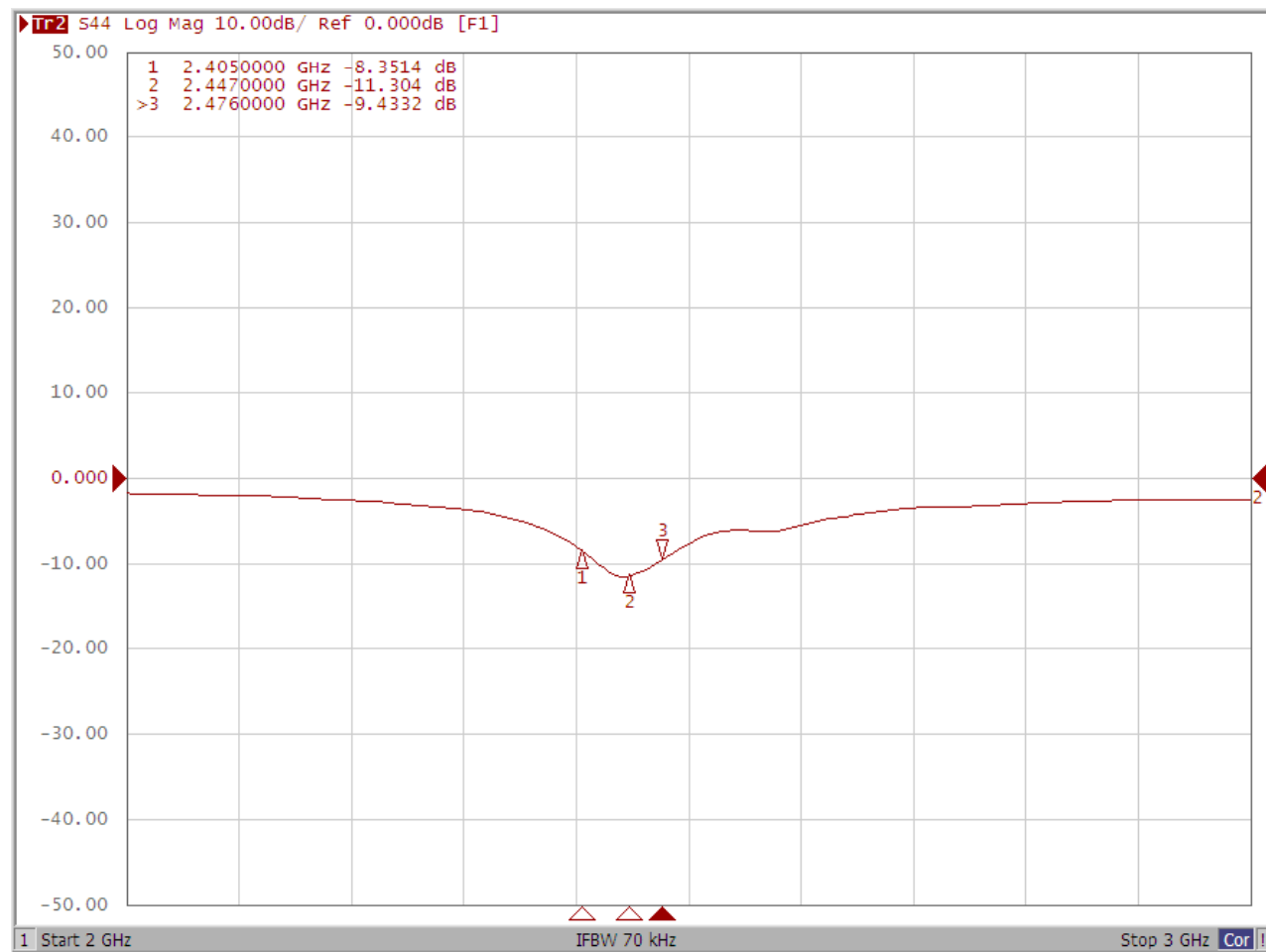


Radiation pattern

XY Plane for 2.476GHz



Return Loss



Measurement Summary

Frequency	Plane	Return loss(dB)	polarization	Gain Max(dBi)	Theta for Gain Max	Phi for Gain Max
2.405G	XZ	-8.35	Vertical	-0.94	180	\
	XZ		Horizontal	-7.34	60	\
	YZ		Vertical	-0.94	180	\
	YZ		Horizontal	-2.08	135	\
	XY		Vertical	-1.85	\	165
	XY		Horizontal	-2.1	\	240
2.447G	XZ	-11.3	Vertical	-0.92	180	\
	XZ		Horizontal	-7.82	150	\
	YZ		Vertical	-0.92	180	\
	YZ		Horizontal	-1.8	150	\
	XY		Vertical	-1.85	\	135
	XY		Horizontal	-1.91	\	240
2.476G	XZ	-9.43	Vertical	-1.83	180	\
	XZ		Horizontal	-8.04	150	\
	YZ		Vertical	-1.83	180	\
	YZ		Horizontal	-1.9	150	\
	XY		Vertical	-2.64	\	120
	XY		Horizontal	-2.29	\	240