

蓝牙天线测试报告

Bluetooth antenna test report

Manufacturer:ZHUHAI JIELI TECHNOLOGY CO.,LTD

Test lab : Dongguan Juncheng Electronics Co., Ltd

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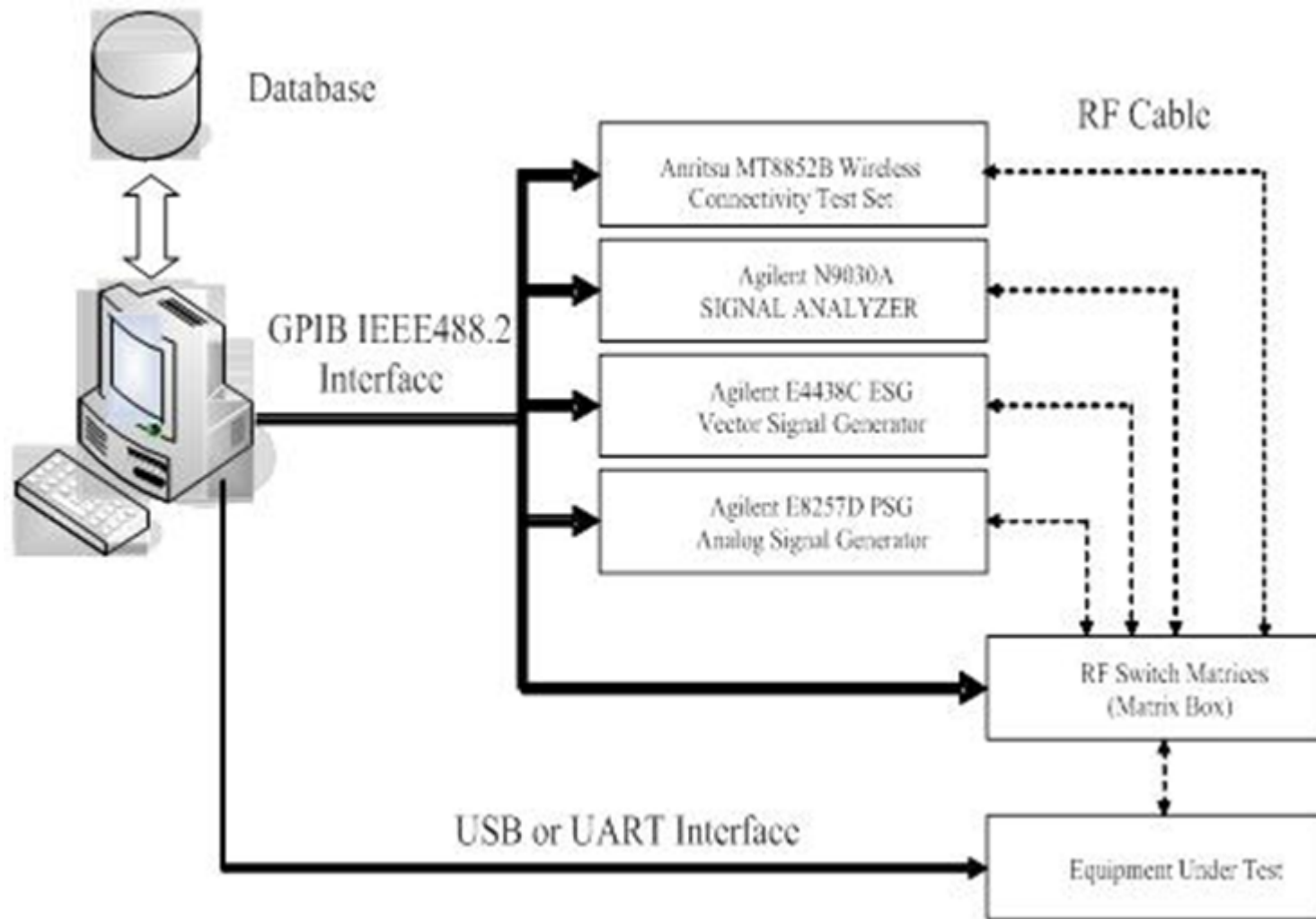
Introduction to Project Testing

Model Name	2.4G ANT		Antenna Length	38.20mm
Frequency band and antenna material	Frequency of operation	2400-2480MHz	Test Method	IEEE Standard Test Procedures for Antennas
	Antenna Material	PCB Antenna	Test Standard	ANSI/IEEE Std 149-2021
Test Personal	SHANG LING		Test Date	MAY 03 2023
Instrument for testing	brand	Agilent Network analyzer		
	model	E5071C		
		brand	Darkroom SATIMO-24 (3D)	

Project development environment



Configuration diagram

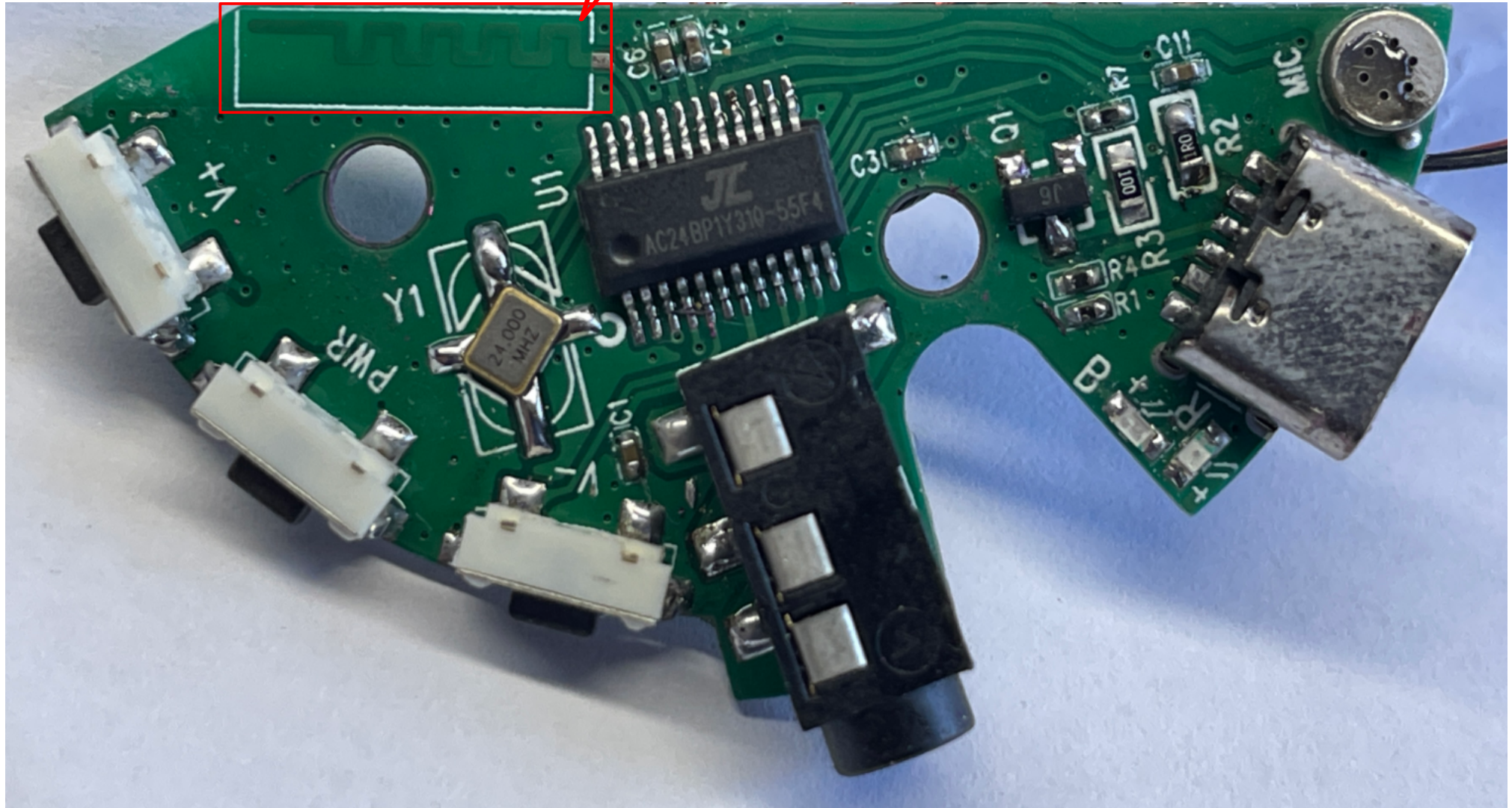


Instrument list and calibration date

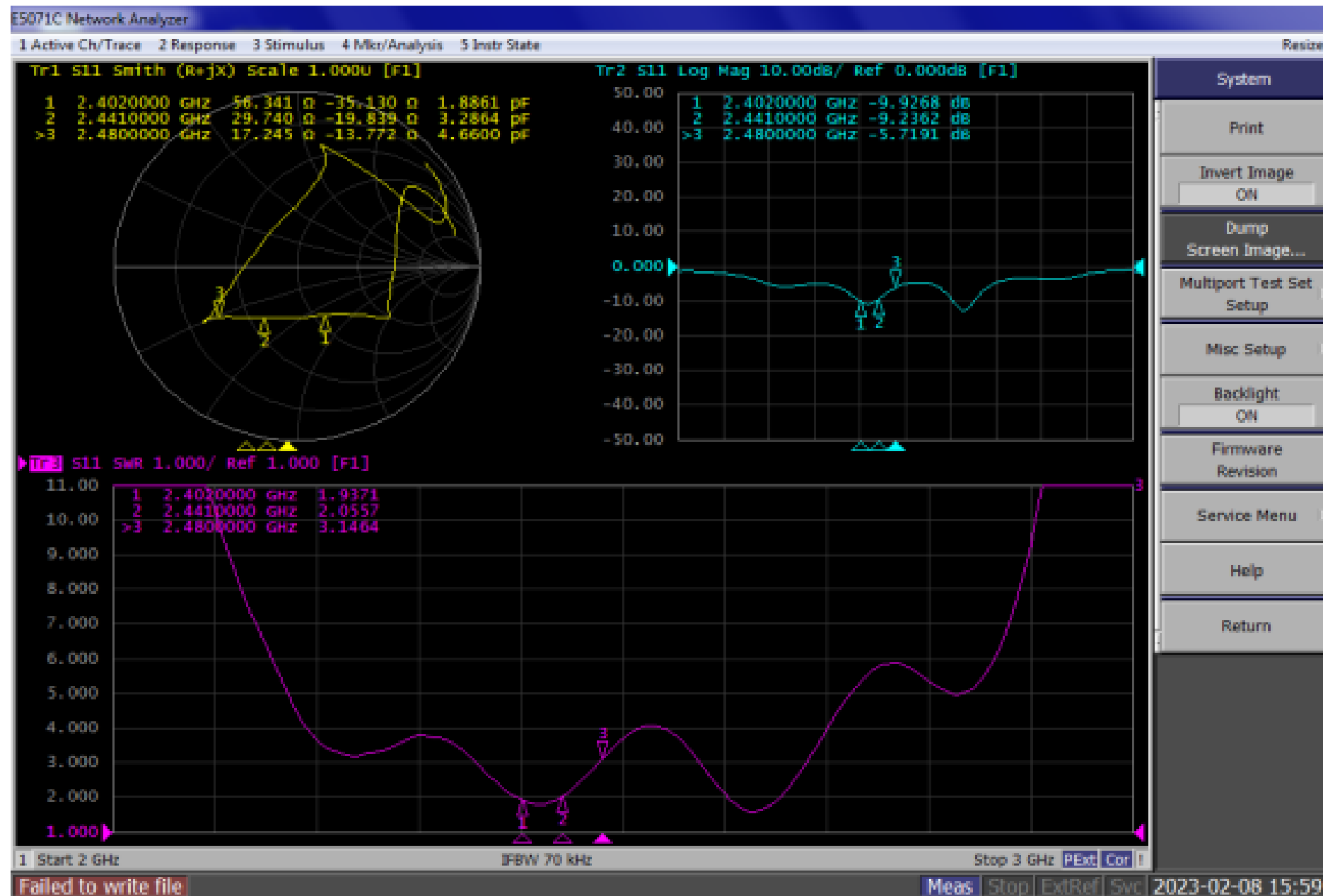
Equipment Name	Serial No.	Type	Manufacturer	Cal Date	Due Date
Network Analyzer	A7102	E5071c	Agilent	2023.01.20	2024.01.19
Darkroom	S101	SATIMO-24(3D)	Jieli	2023.02.15	2024.02.14
Spectrum Analyzer	MY53120346	N9030A	Keysight	2023.03.27	2024.03.26
RF Signal Generator	MY45095851	E4438C	Agilent	2023.03.25	2024.03.24
Wideband Generator	MY47461226	E8257D	Agilent	2023.03.25	2024.03.24
Signalling Unit	6K00005351	MT8852B	Anritsu	2022.10.28	2023.10.27
Industrial PC		TEMPEL	Advantech		
RTSB-A Switch Unit		RTSB-A	CTTL		
RF Tester Software		SW ver.3.0.0	CTTL		

Antenna Photo

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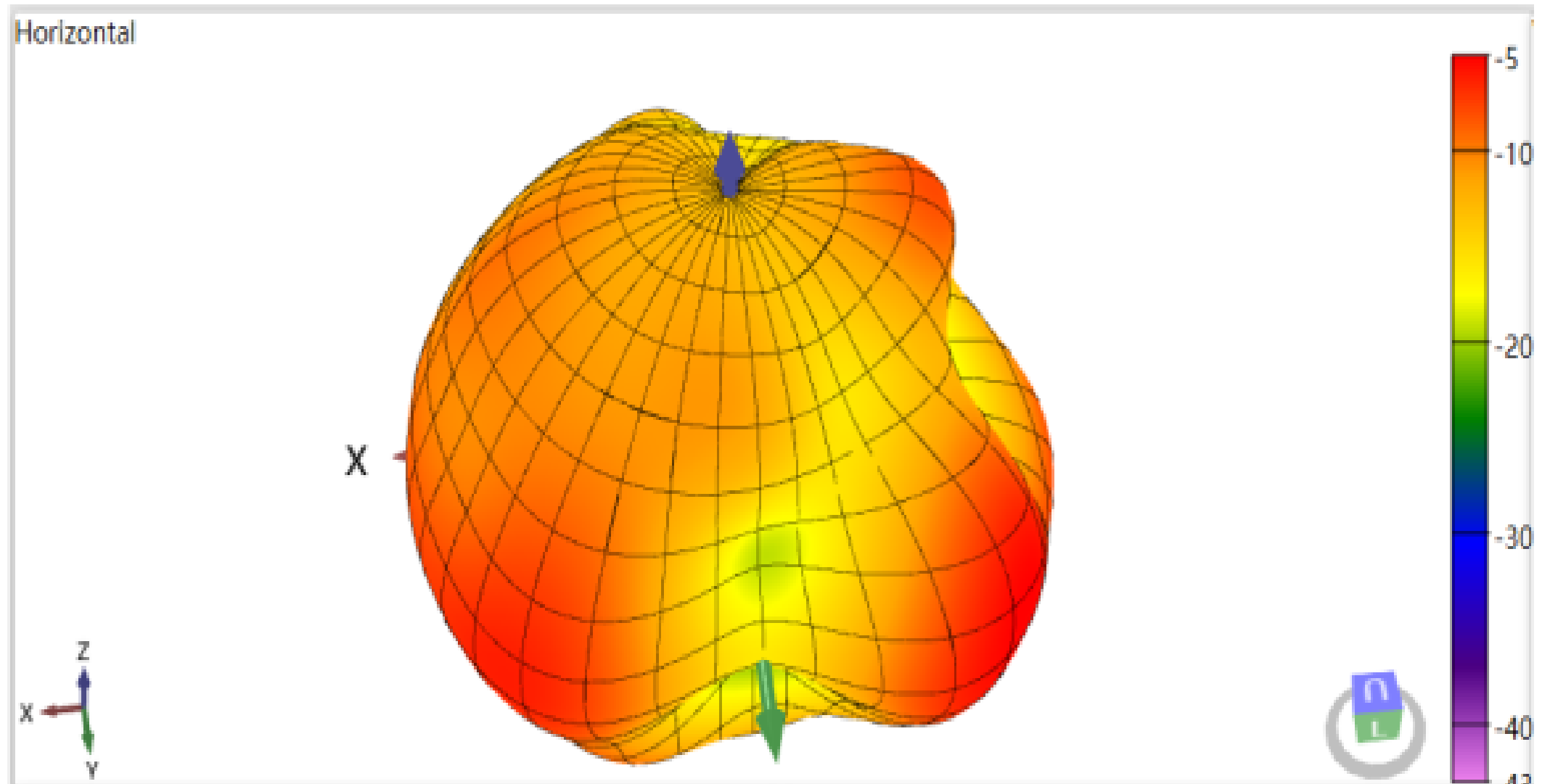
Smith diagram & Loss of return & Standing wave ratio



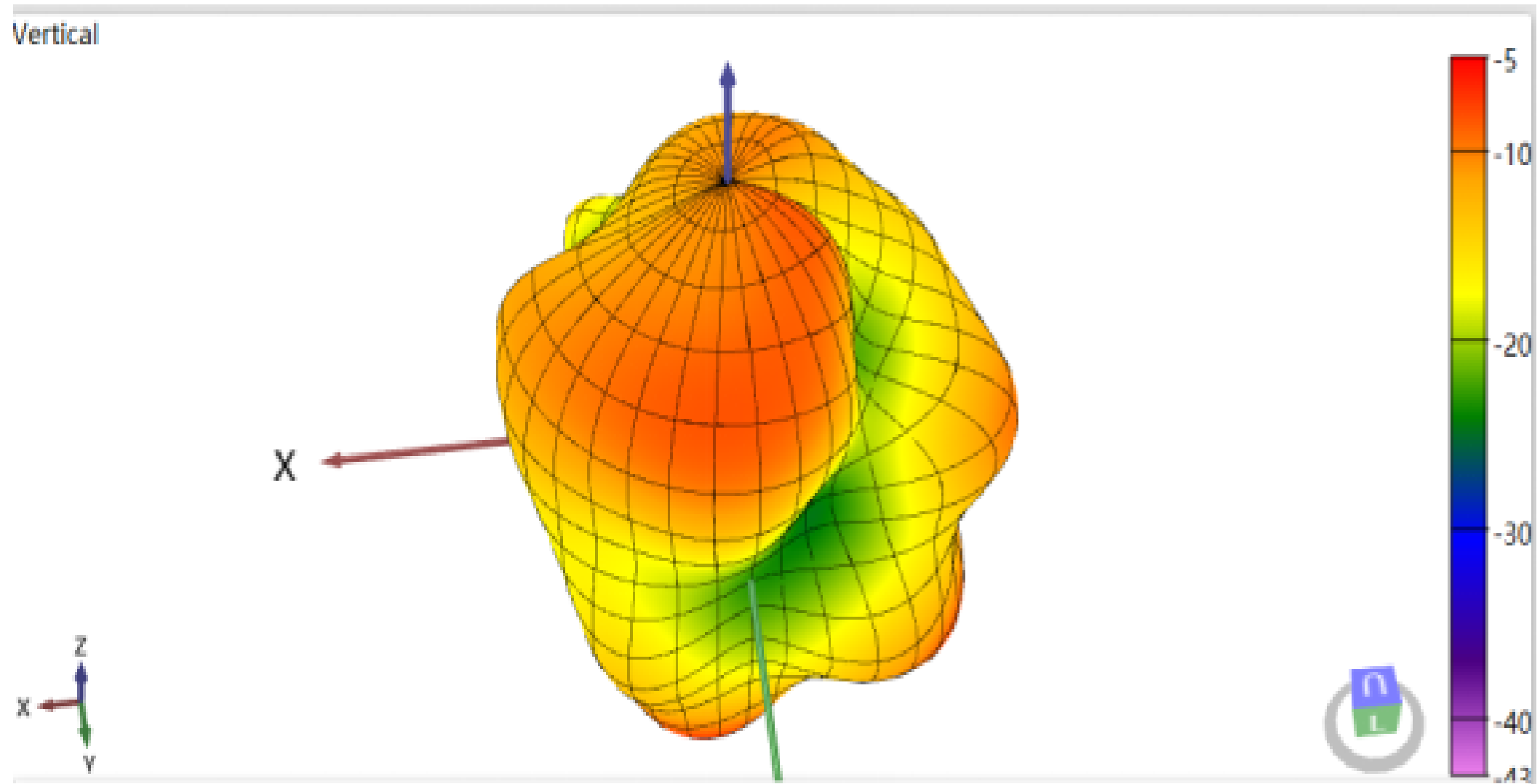
Antenna gain and efficiency

Center Frequency	Horizontal			Vertical		
	2400MHz	2400MHz	2500MHz	2400MHz	2400MHz	2500MHz
	-1.26	-0.76	-0.58	-5.25	-2.46	-1.86
MAX. Gain	-0.58dB					

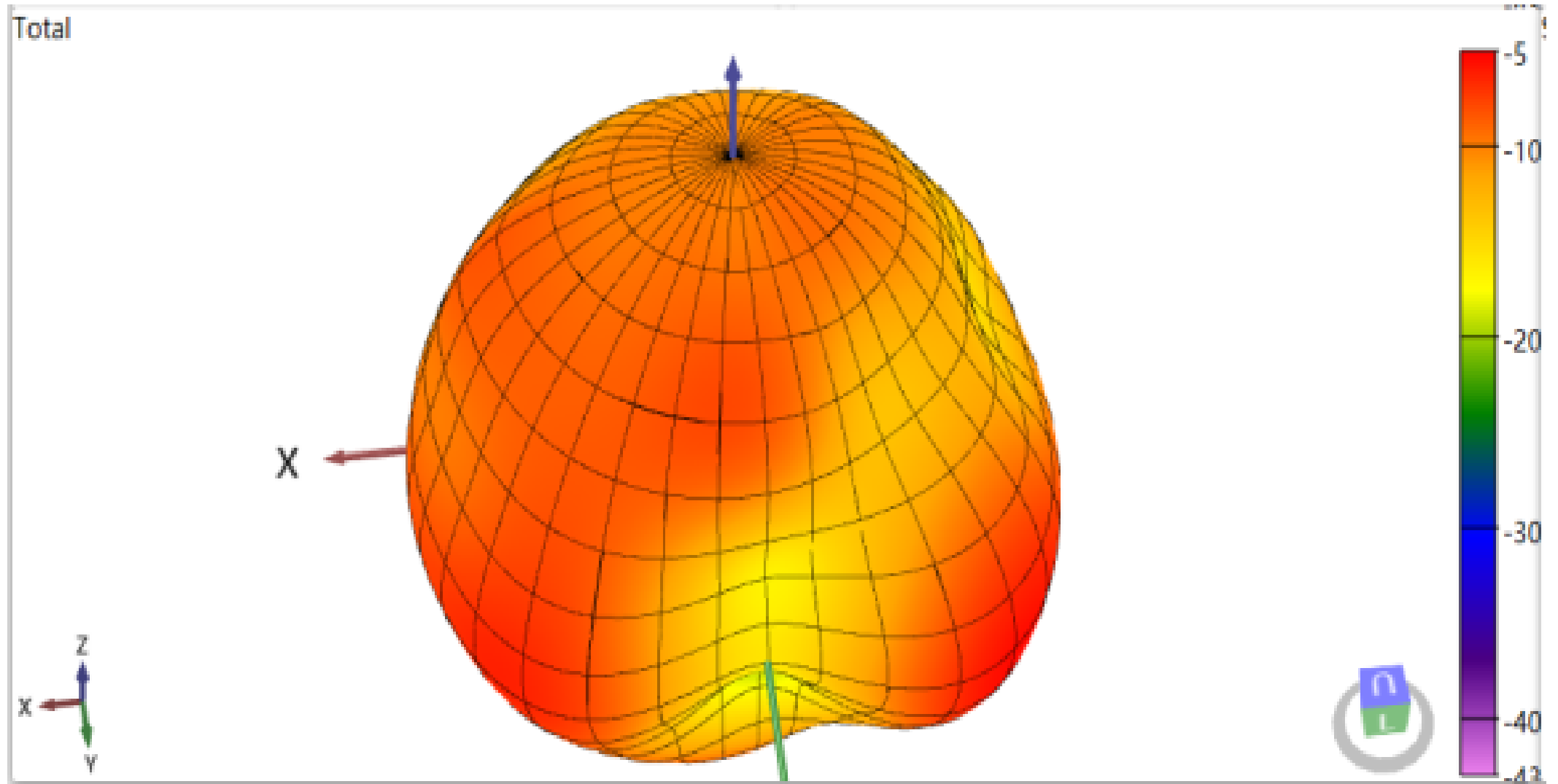
Apple Picture (2440MHz 3D-Horizontal Pattern)



Apple Picture (2440MHz 3D-Vertical Pattern)



Apple Picture (2440MHz 3D-Total Pattern)



2440MHz 2D-Theta Pattern

2D-Theta 2D-Line-Theta 2D-Phi 2D-Line-Phi DataLine HeatMap 3D

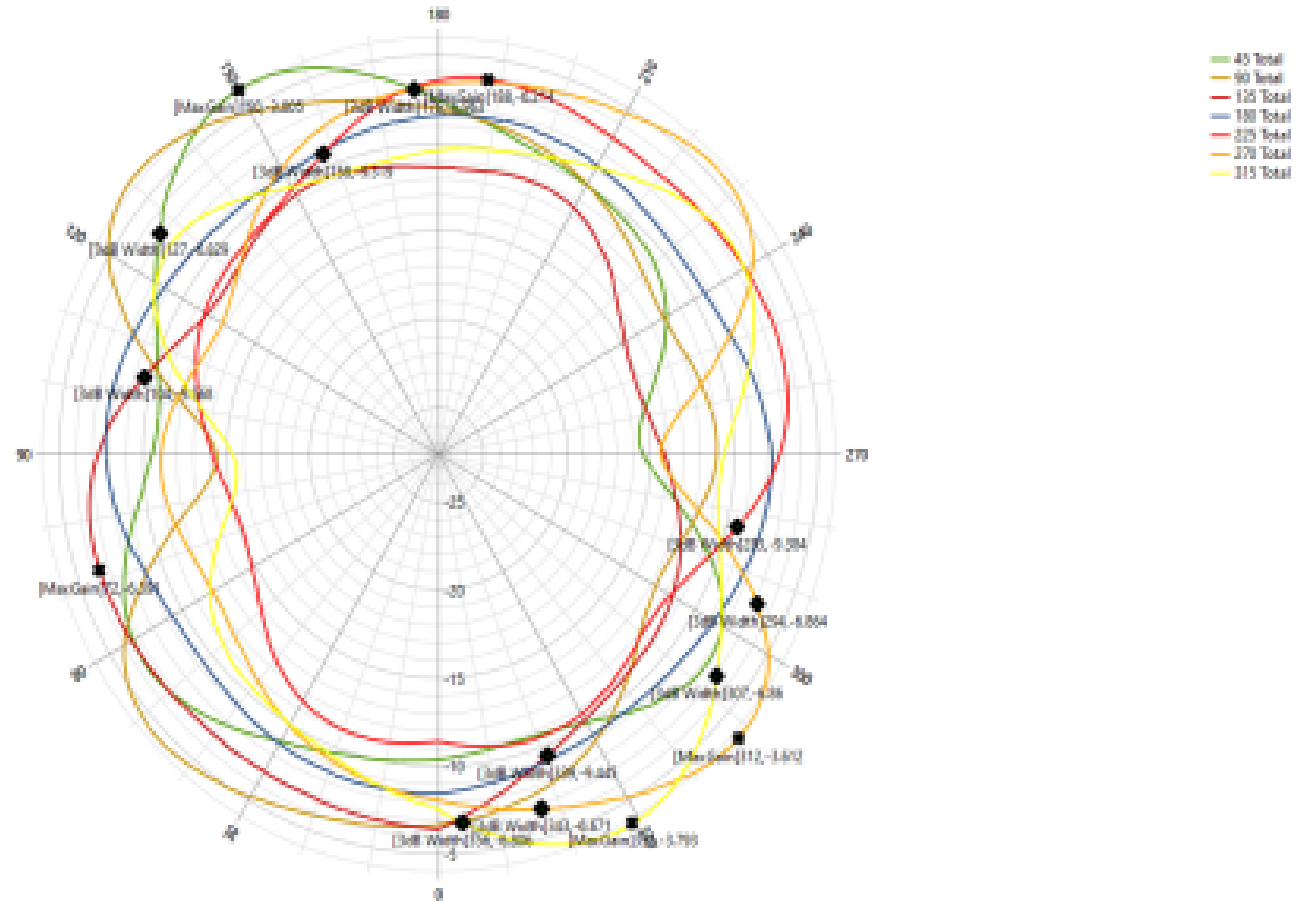


Diagram of direction

2440MHz 2D-Phi Pattern

