

Report for Broadcom

By Alfred Grau

Company: SHENZHEN RISHENGTAI TECHNOLOGY CO., LTD

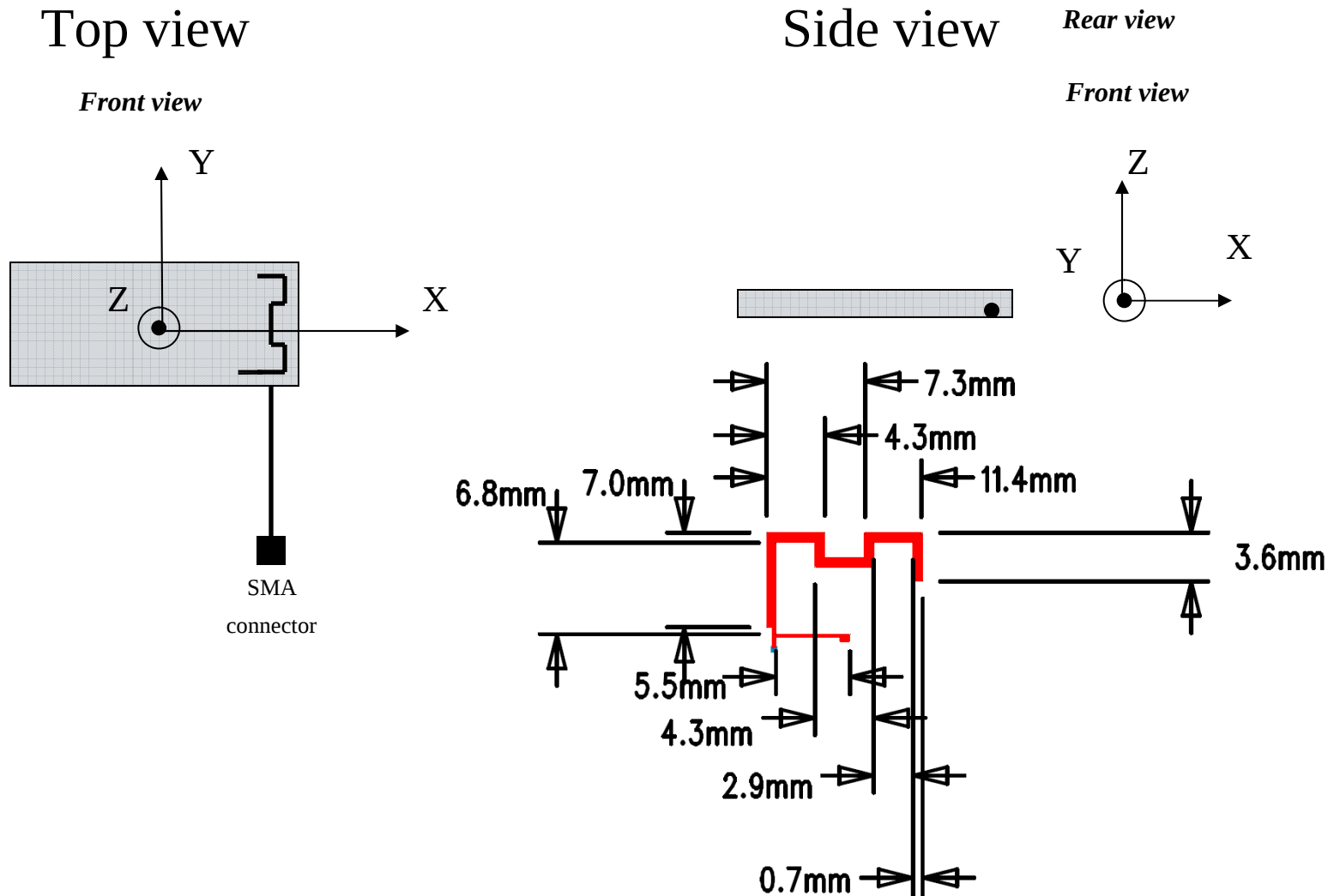
*Address: IROOM 1503 BAOYUNDA LOGISTICS INFORMATION BUILDING INTERSECTION OF XIXIANG ROAD AND
FORWARD TWO ROAD XIXIANG STREET BAOAN DISTRICT SHENZHEN, GUANGDONG CHINA*

UCI CENTER FOR RF DESIGN AND CHARACTERIZATION

Tested Products.

- Antenna 1: integrated antenna.
 - Frequency = 2.402GHz.
 - Frequency = 2.441GHz.
 - Frequency = 2.480GHz.

Coordinate System Reference: Antenna 1.



Radiation pattern: Antenna 1. XZ Plane at $f = 2.402\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.402\text{GHz}$



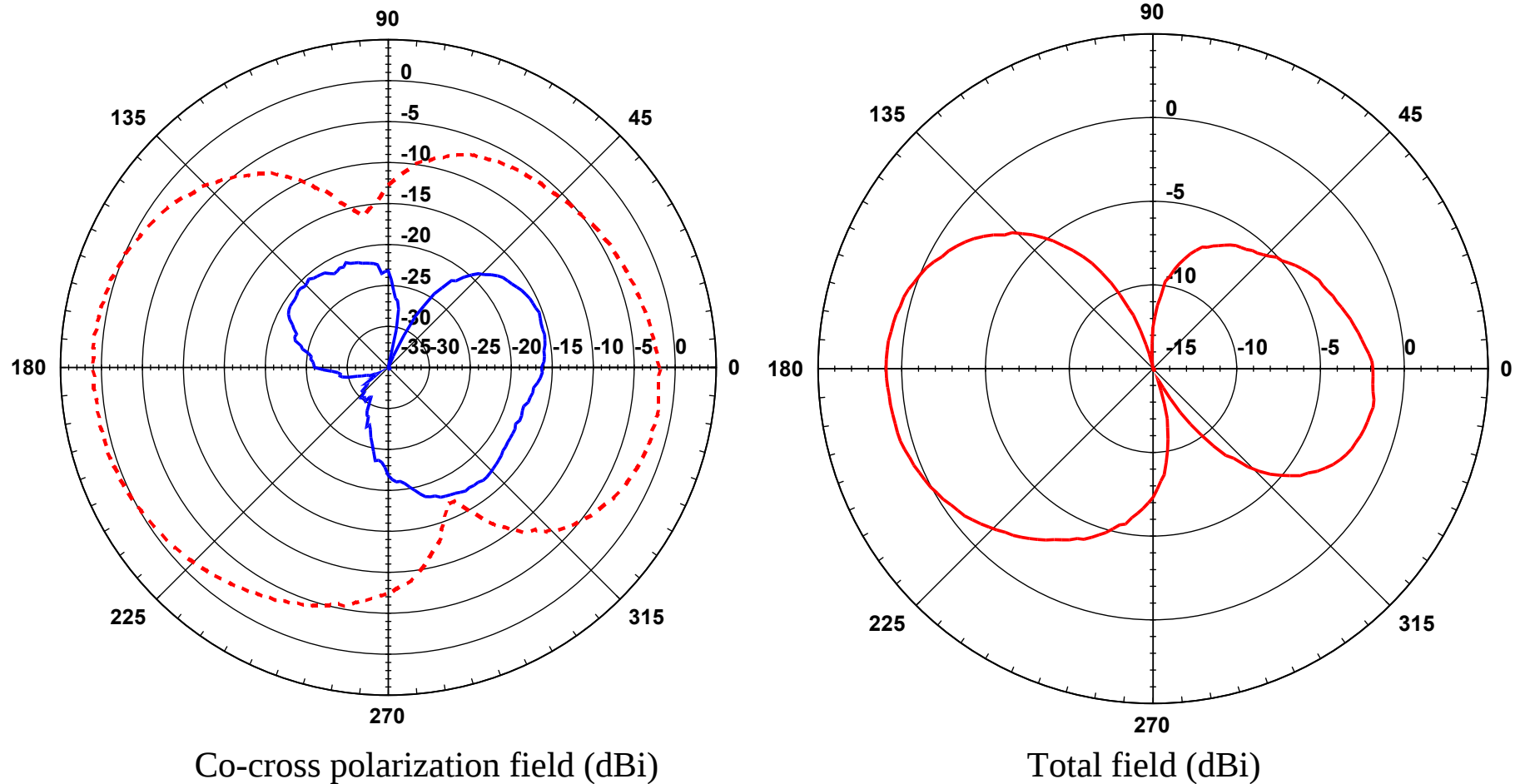
Co-cross polarization field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization



Total field (dBi)

Radiation pattern: Antenna 1. XY Plane at $f = 2.402\text{GHz}$



Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.441\text{GHz}$



Co-cross polarization field (dBi)



Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. YZ Plane at $f = 2.441\text{GHz}$



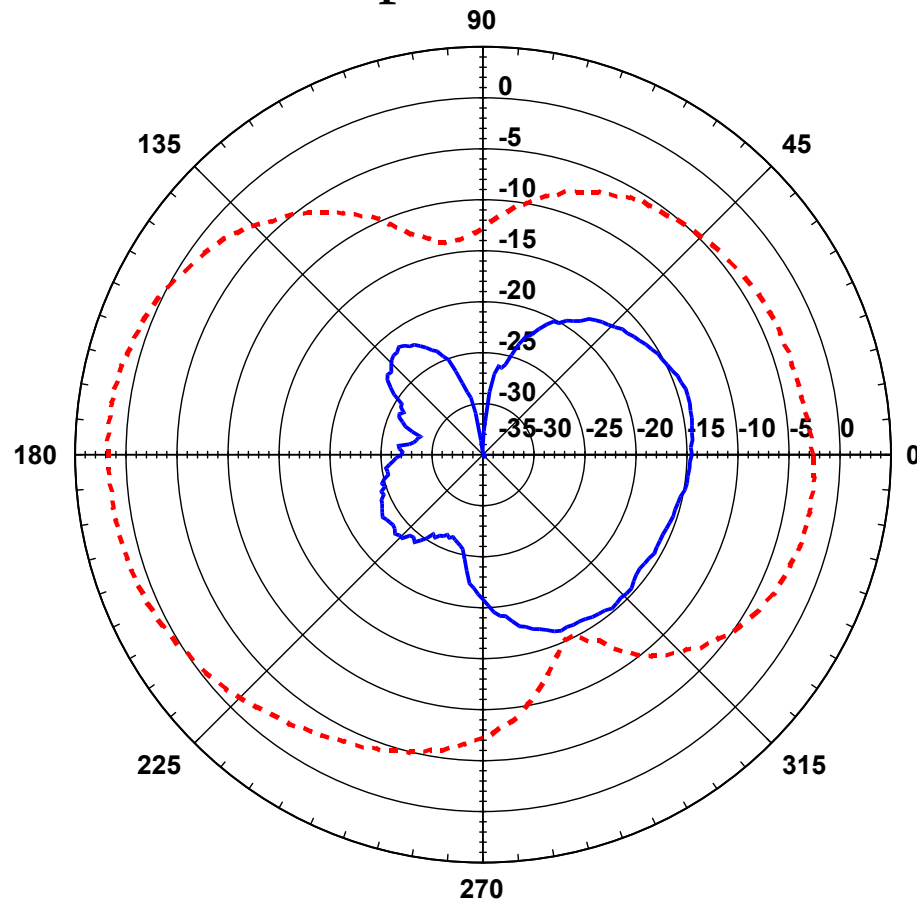
Co-cross polarization field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

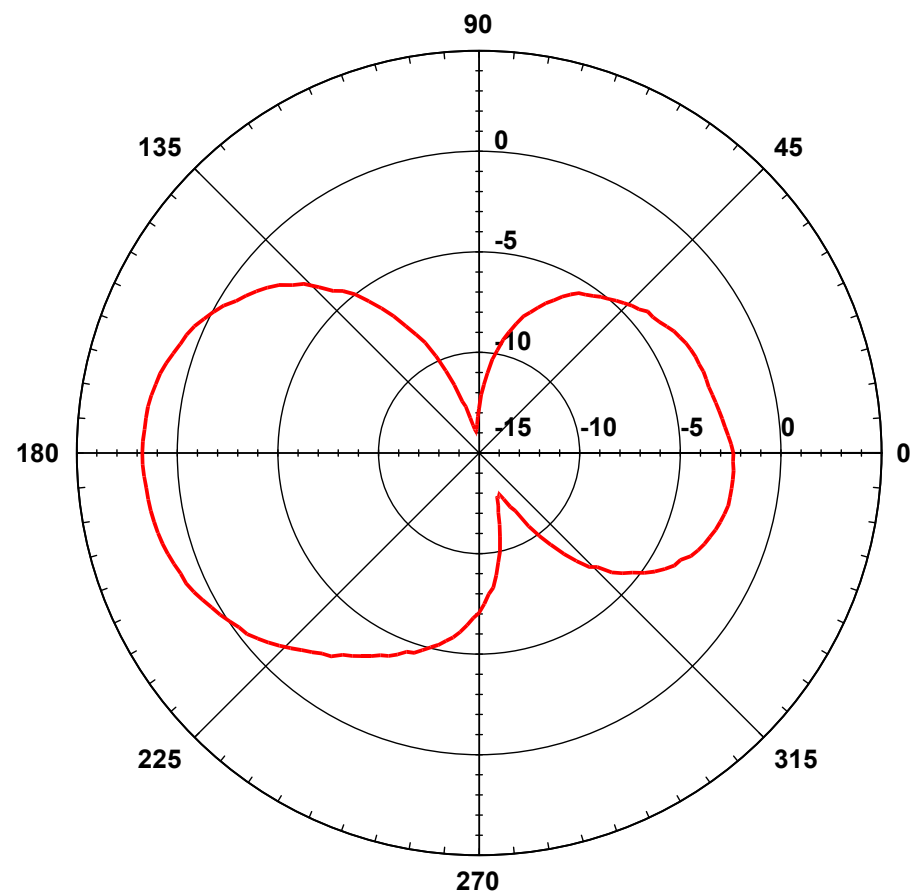


Total field (dBi)

Radiation pattern: Antenna 1. XY Plane at $f = 2.441\text{GHz}$



Co-cross polarization field (dBi)



Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XZ Plane at $f = 2.480\text{GHz}$



Radiation pattern: Antenna 1. YZ Plane at $f = 2.480\text{GHz}$



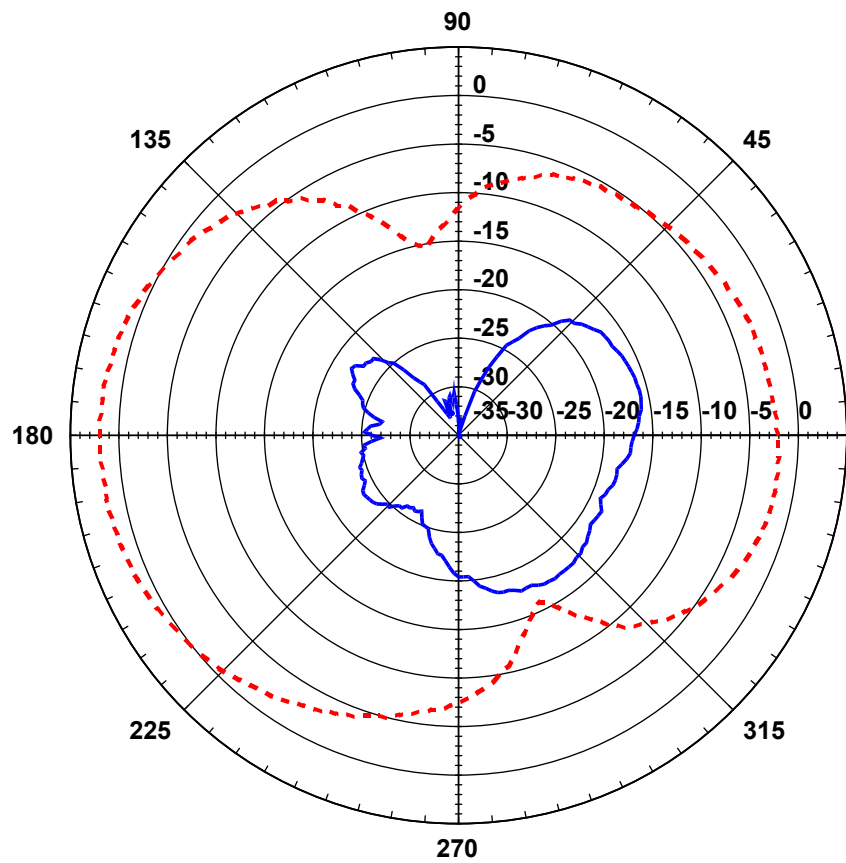
Co-cross polarization field (dBi)



Total field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization

Radiation pattern: Antenna 1. XY Plane at $f = 2.480\text{GHz}$



Co-cross polarization field (dBi)

Solid line: vertical polarization
Dash line: horizontal polarization



Total field (dBi)

Return Loss: Antenna 1



BW(-10dB) 🕒 13.48%

Measurements summary

Frequency	PeakGain (dBi)
2400MHz	1.01
2441MHz	1.98
2480MHz	2.22