

Probius Antenna Test Report

MAR. 9, 2023

PREPARED BY SHIAN CHUANG

SERCOMM

8F, NO. 3-1, YUAN QU ST., NAN KANG, TAIPEI 115, TAIWAN.

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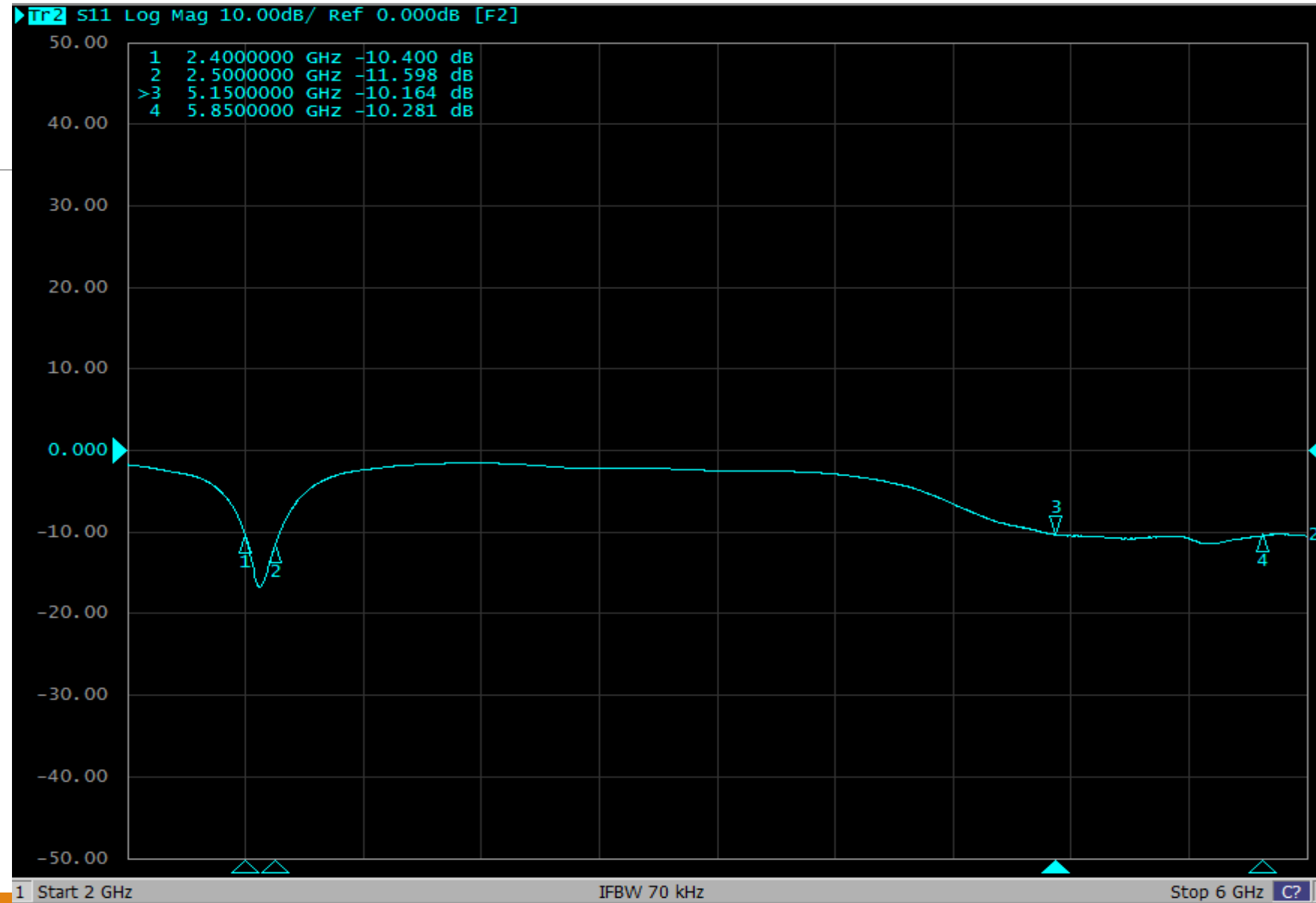
Outline

- Antenna Structure & Placement
 - Return Loss
-
- Radiation Pattern
 - Peak Gain & Efficiency

Antenna Structure

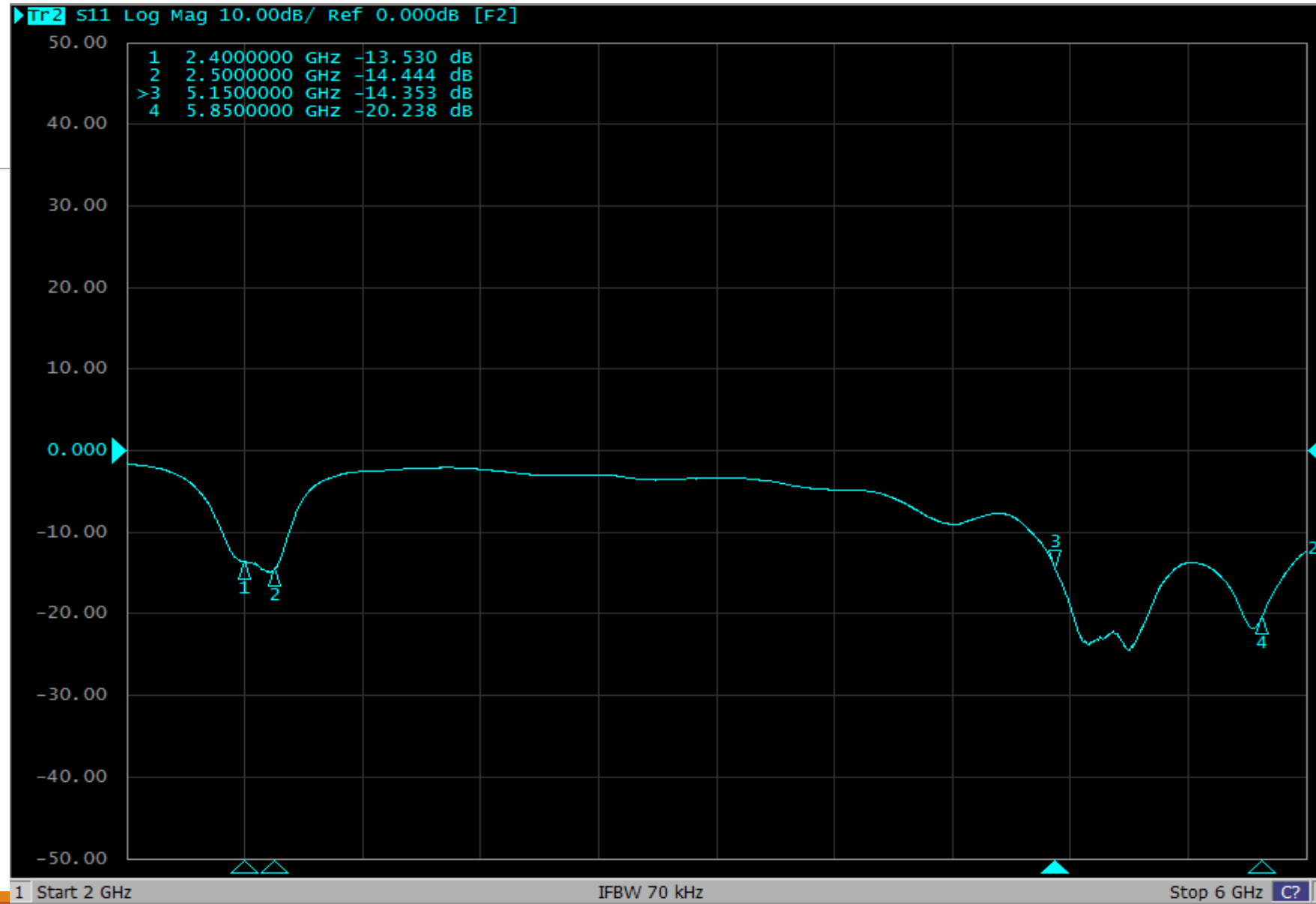
Ant No.	Function	Operating Band	Type	Material	Feeding	Dimension
Ant 1	WiFi Dual Band	2400MHz ~ 2500MHz 5150MHz ~ 5850MHz	PIFA	FPCB	Cable	32.2mm * 10mm * 7.5mm
Ant 2	WiFi Dual Band	2400MHz ~ 2500MHz 5150MHz ~ 5850MHz	PIFA	FPCB	Cable	38.0mm * 22.8mm * 0.23mm

Return Loss – Ant 1



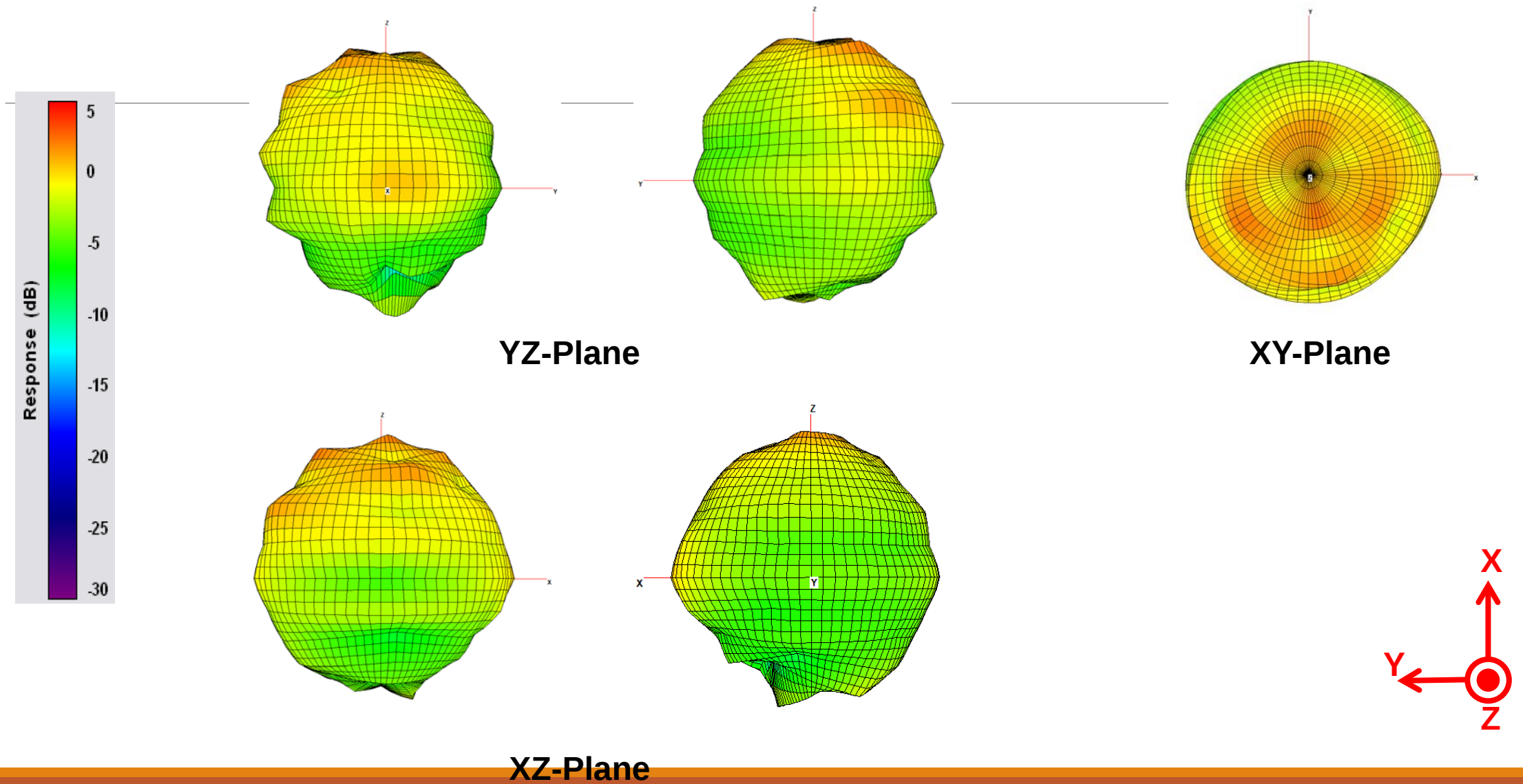
Spec : $RL \geq 10\text{dB}$

Return Loss – Ant 2

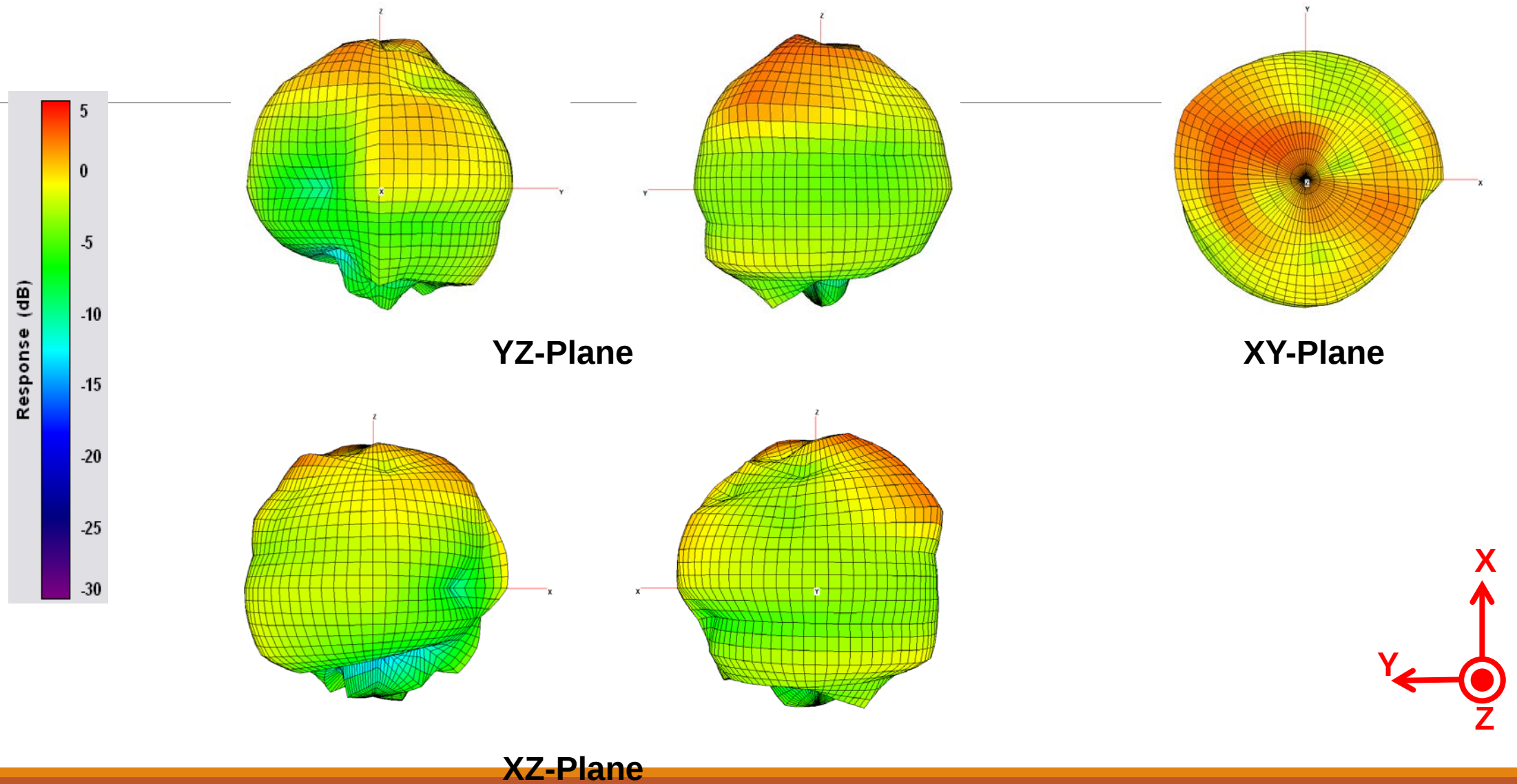


Spec : $RL \geq 10\text{dB}$

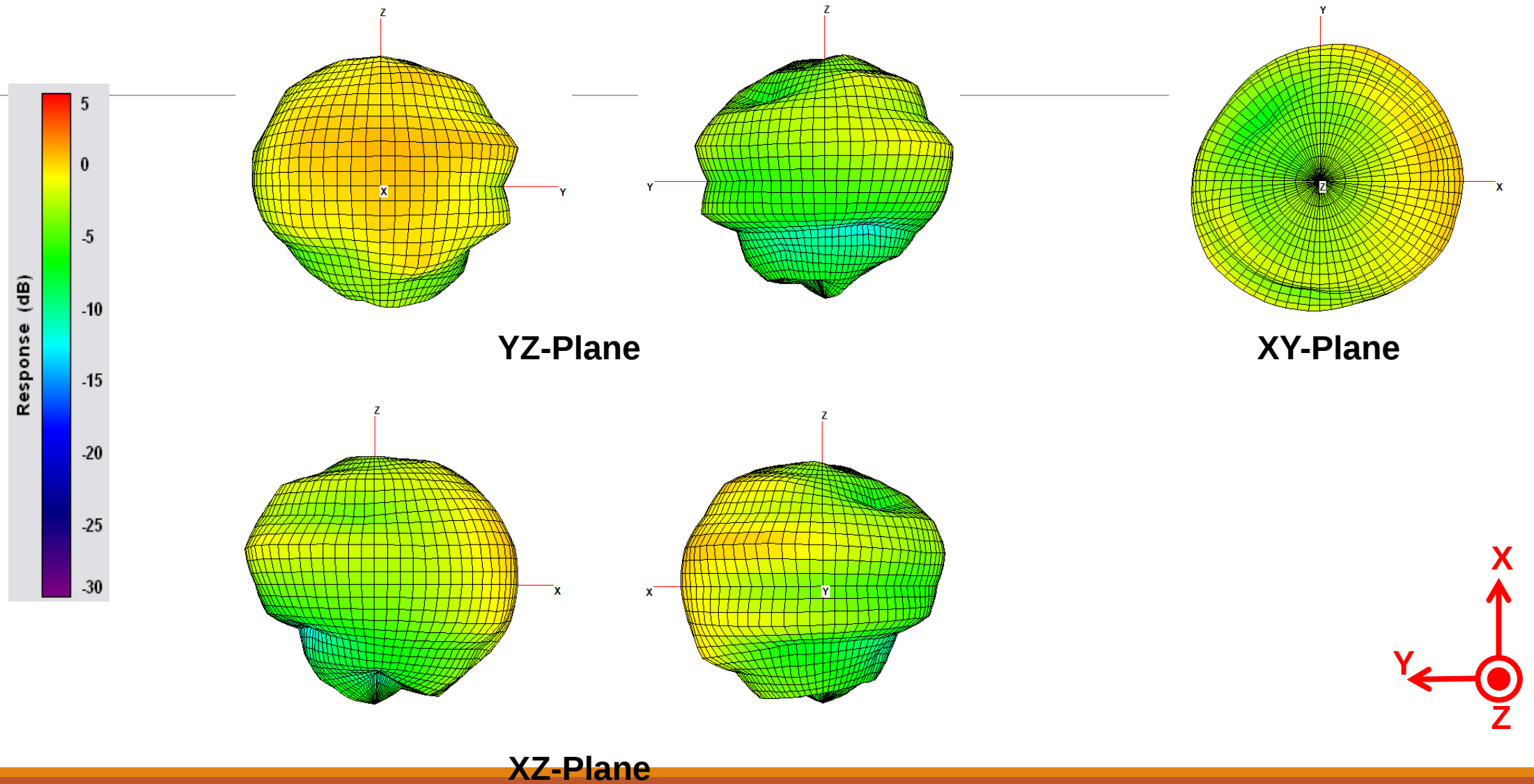
3D Radiation Pattern – Ant 1 @ 2.4G



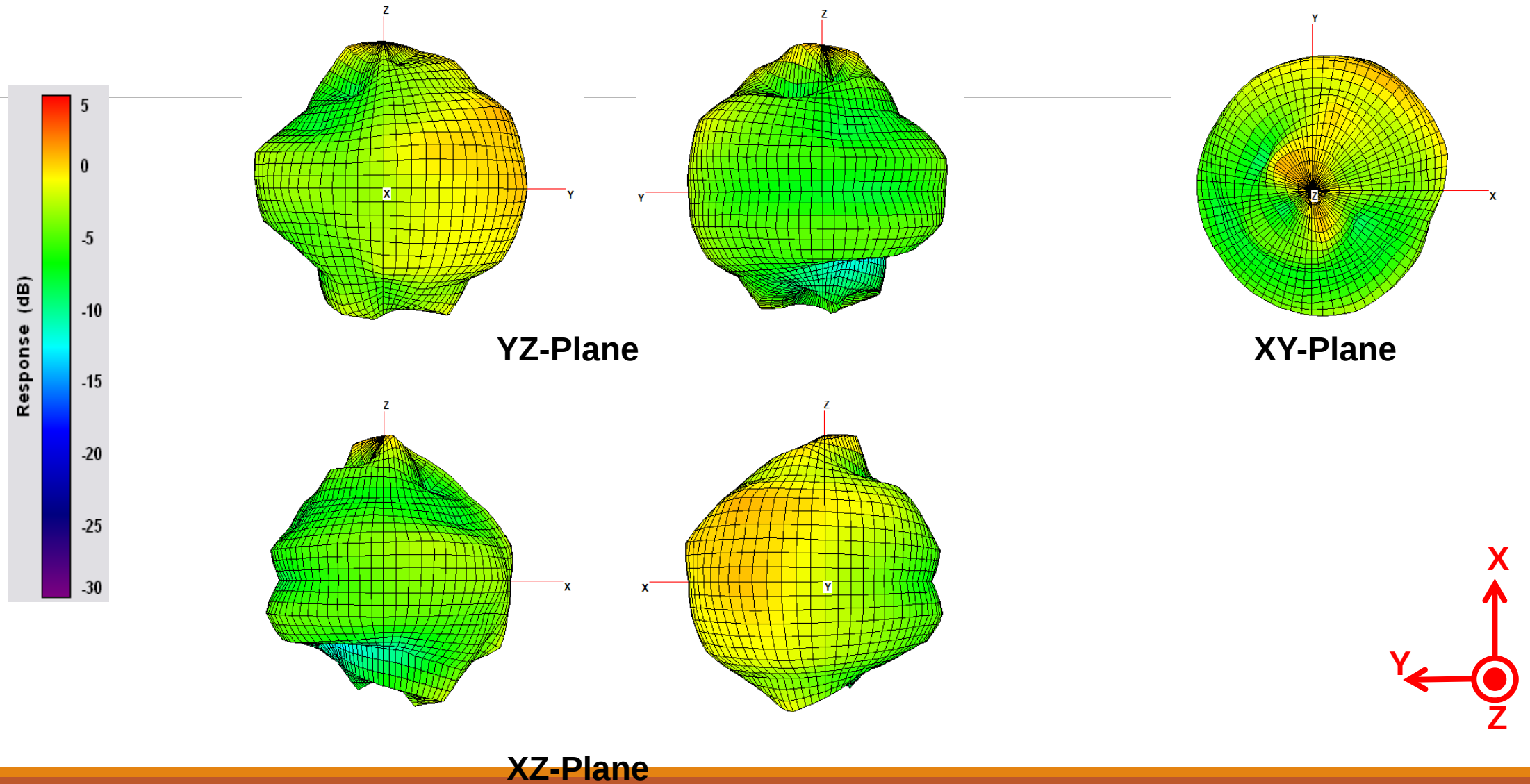
3D Radiation Pattern – Ant 1 @ 5.5G



3D Radiation Pattern – Ant 2 @ 2.4G



3D Radiation Pattern – Ant 2 @ 5.5G



Peak Gain & Efficiency

Ant 1 Performance		
Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	50.7	1.2
2450	57.2	1.8
2500	60.2	2.4
5150	57.0	3.31
5500	56.0	3.76
5850	59.1	3.05

Ant 2 Performance		
Frequency (MHz)	Efficiency (%)	Peak Gain (dBi)
2400	51.1	0.89
2450	52.9	0.98
2500	53.3	0.74
5150	51.1	2.4
5500	50.6	2.1
5850	53.2	2.5

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