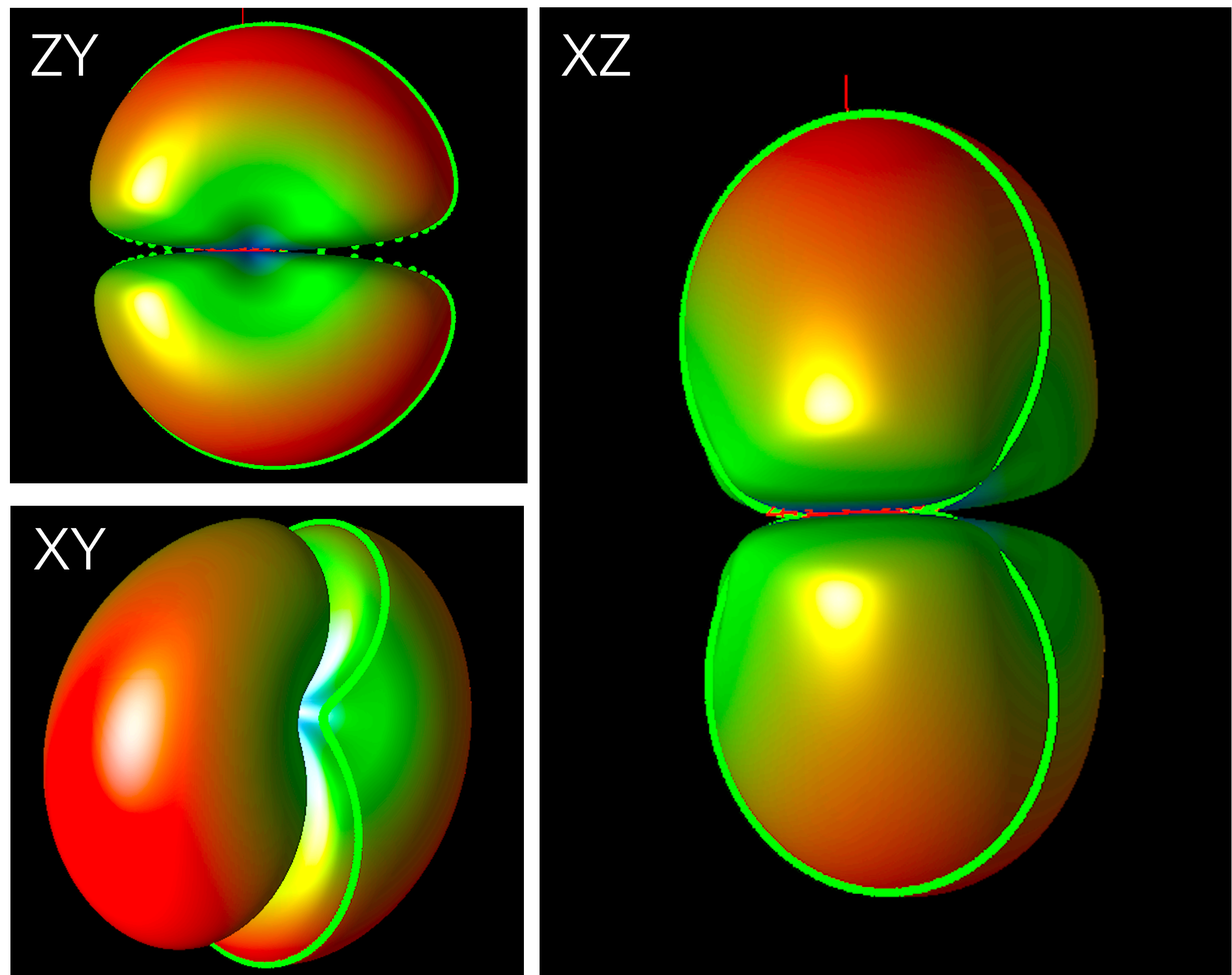


Technical Specification Summary

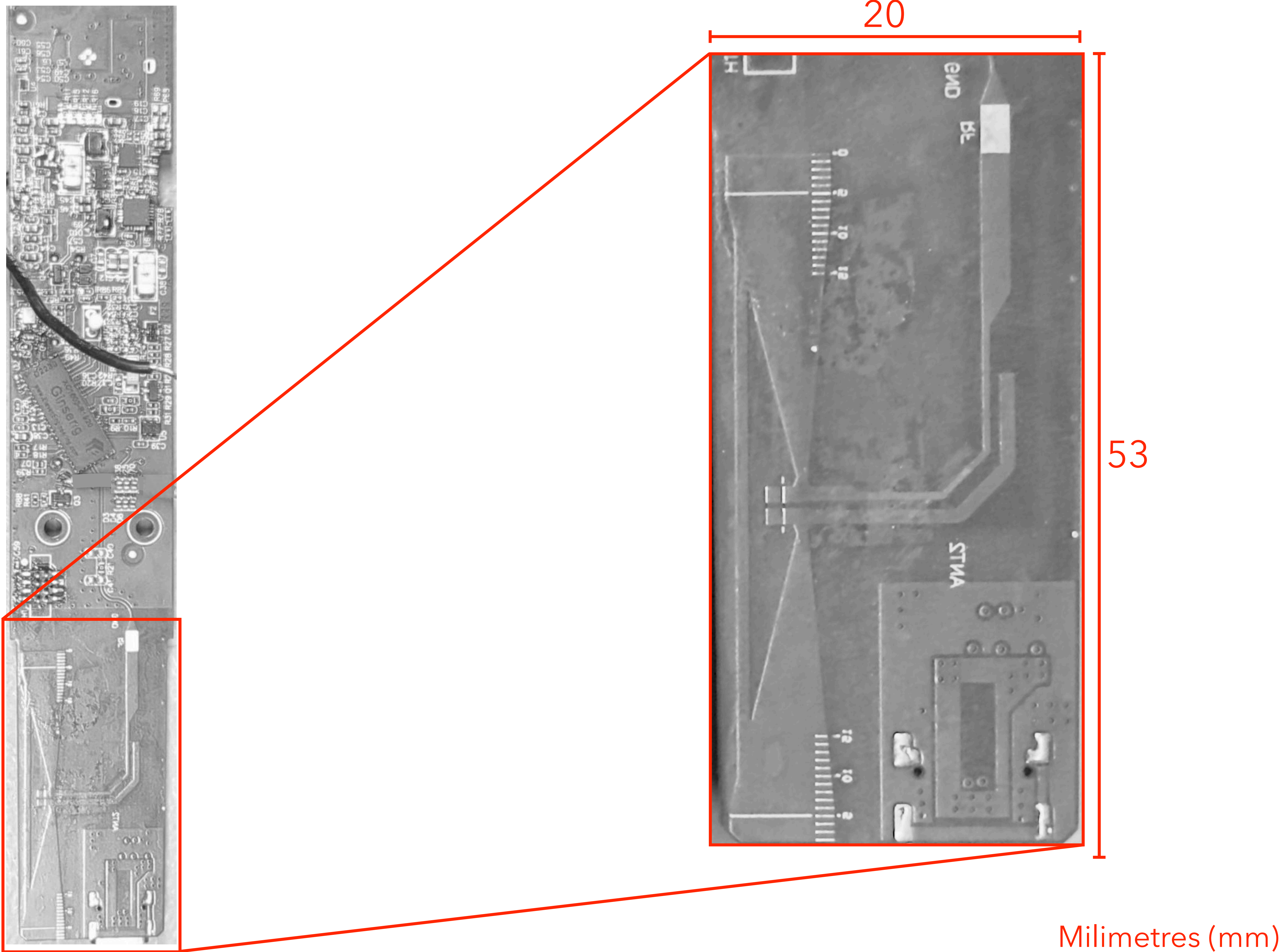
Antenna Version	B-0
Type	Bowtie Dipole
Targeted Frequencies	2.400 - 2.480 GHz
Predicted Peak Directivity	3.01 dBi
Predicted Peak Gain	1.98 dBi
Efficiency	81%

Gain Pattern



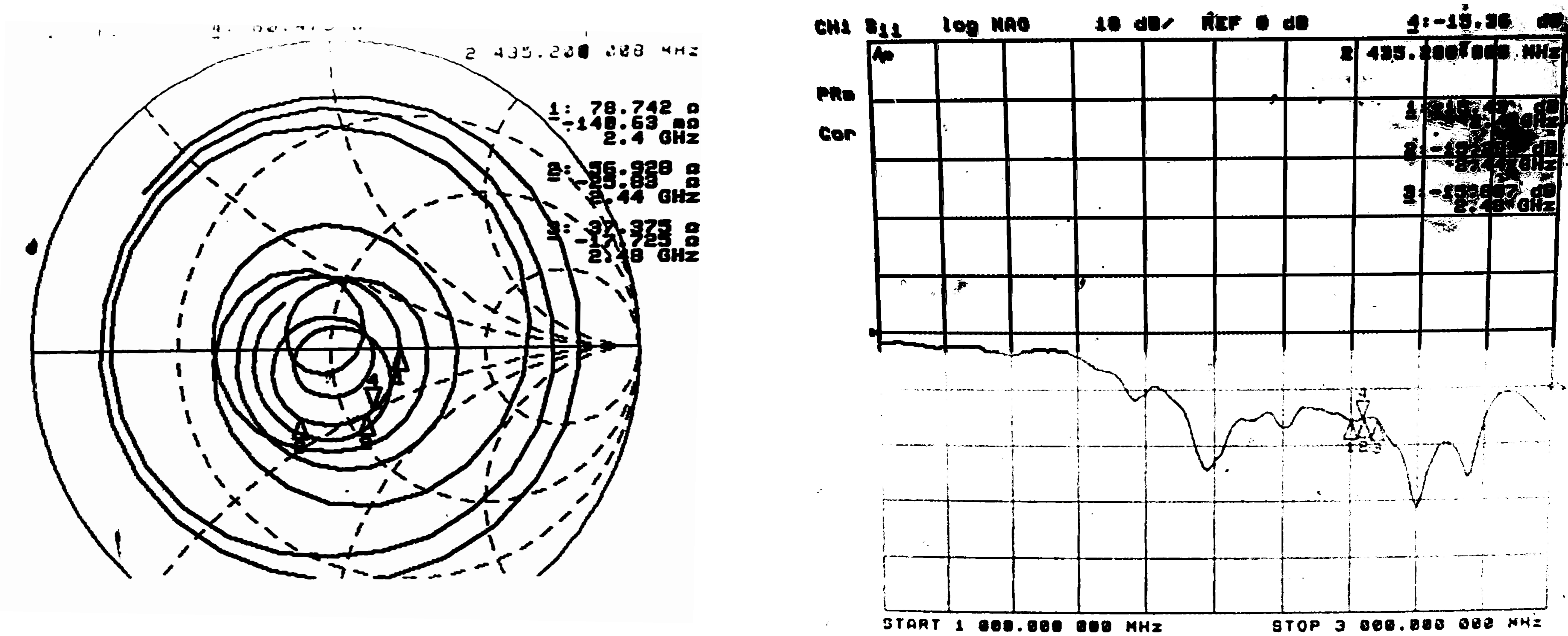
Notes:

- 1. XY plane slice not accurately depicted. Plane slice is actually conical slice 15° off the XY plane
- 2. Measurements are in the absolute scale of the E-field



VALERIE ANTENNA DATA SHEET

S11 and Return Loss



PCB Layer Breakdown

Top Silk Print
Top Solder Mask
Top Copper Route (1 oz)
PREPREG
Middle Copper Route (0 oz - Empty)
FR-4
Middle Copper Route (0.5 oz)
PREPREG
Bottom Copper Route (1 oz)
Bottom Solder Mask
Bottom Silk Print

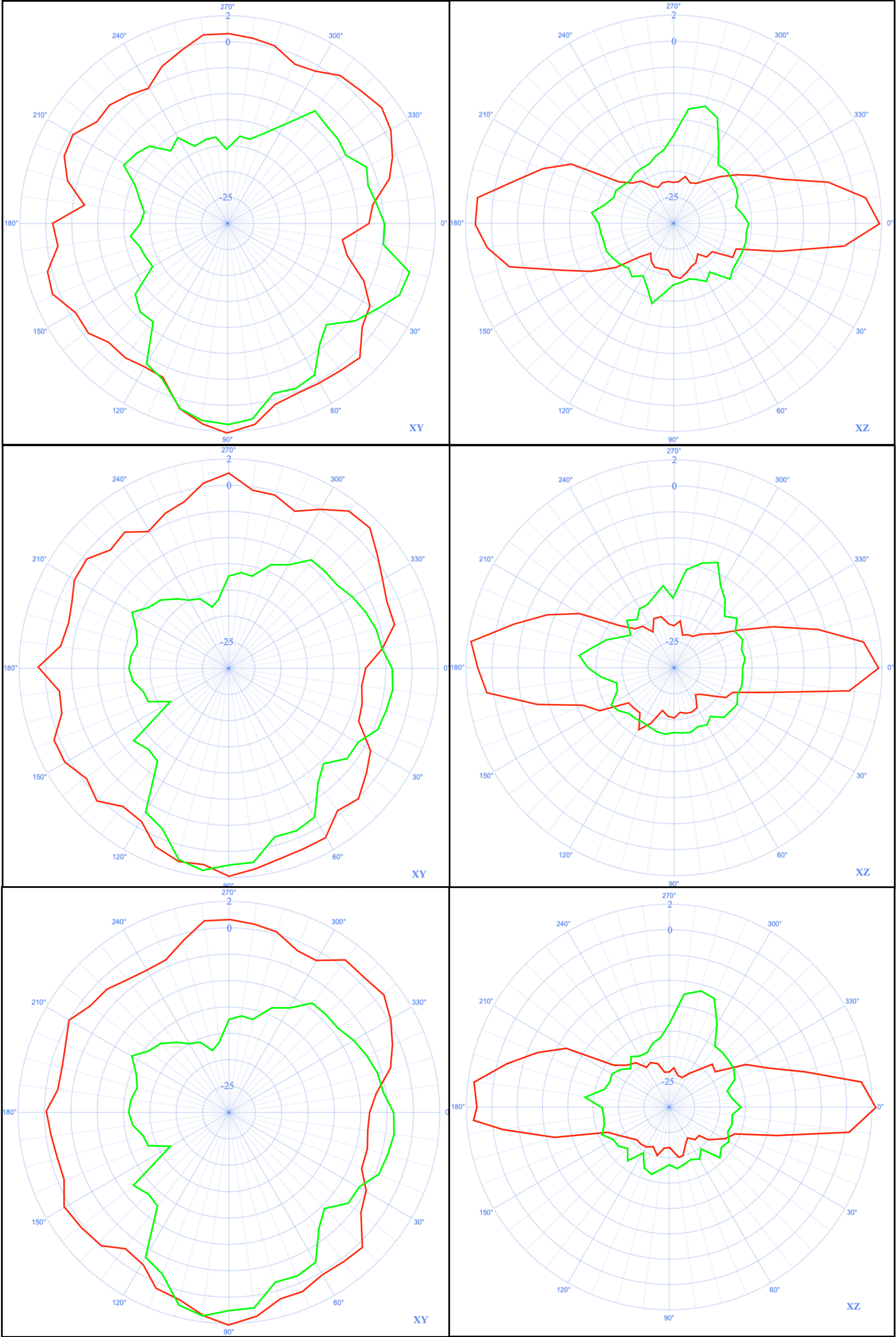
1.6 mm

Boards Shall conform to IPC-6012, Class 2
RoHS Compliant
4-Layer
SMOBC
Immersion Lead free HASL



VALERIE ANTENNA DATA SHEET

Gain Pattern



2.40 GHz	Vertical	Horiz
Ave Gain XY	0.77	0.42
Peak Gain XY	1.92	1.81
Total Gain XY	1.95	1.83
Ave Gain XZ	0.36	0.29
Peak Gain XZ	1.89	0.35
Total Gain XZ	1.90	0.36

2.44 GHz	Vertical	Horiz
Ave Gain XY	0.82	0.51
Peak Gain XY	1.96	1.73
Total Gain XY	1.98	1.76
Ave Gain XZ	0.38	0.29
Peak Gain XZ	1.90	0.36
Total Gain XZ	1.91	0.37

2.48 GHz	Vertical	Horiz
Ave Gain XY	0.81	0.39
Peak Gain XY	1.90	1.79
Total Gain XY	1.98	1.80
Ave Gain XZ	0.37	0.28
Peak Gain XZ	1.97	0.35
Total Gain XZ	1.98	0.36

