

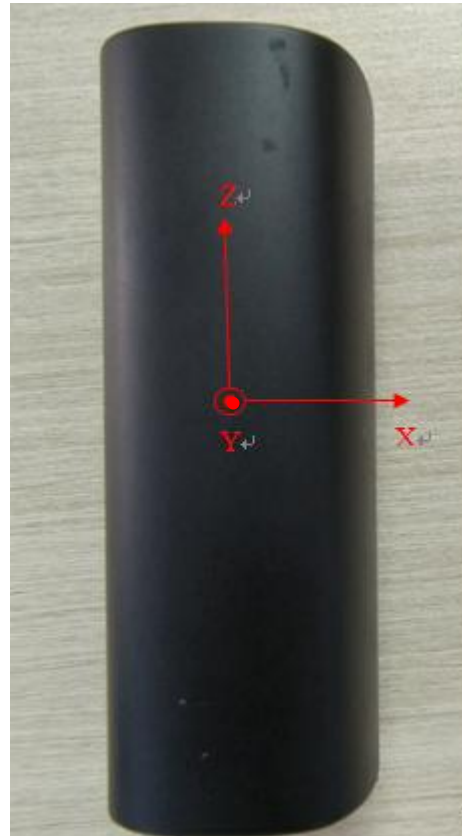
Report for Broadcom

By Alfred Grau

Tested Products.

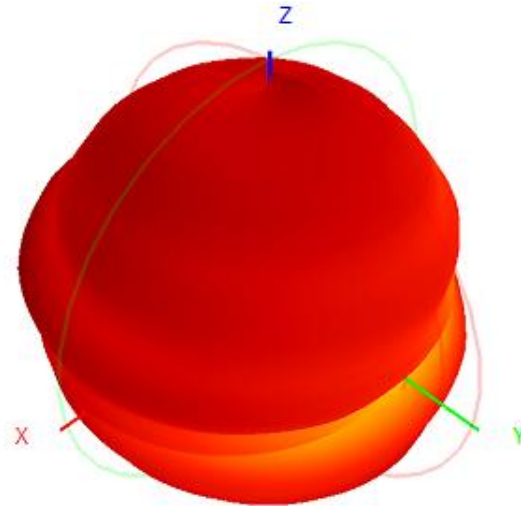
- Antenna 1: **FPC**antenna.
 - Frequency =2402MHz
 - Frequency =2404MHz
 - Frequency =2440MHz
 - Frequency =2441MHz
 - Frequency =2472MHz
 - Frequency =2480MHz

Coordinate System Reference: Antenna-RX

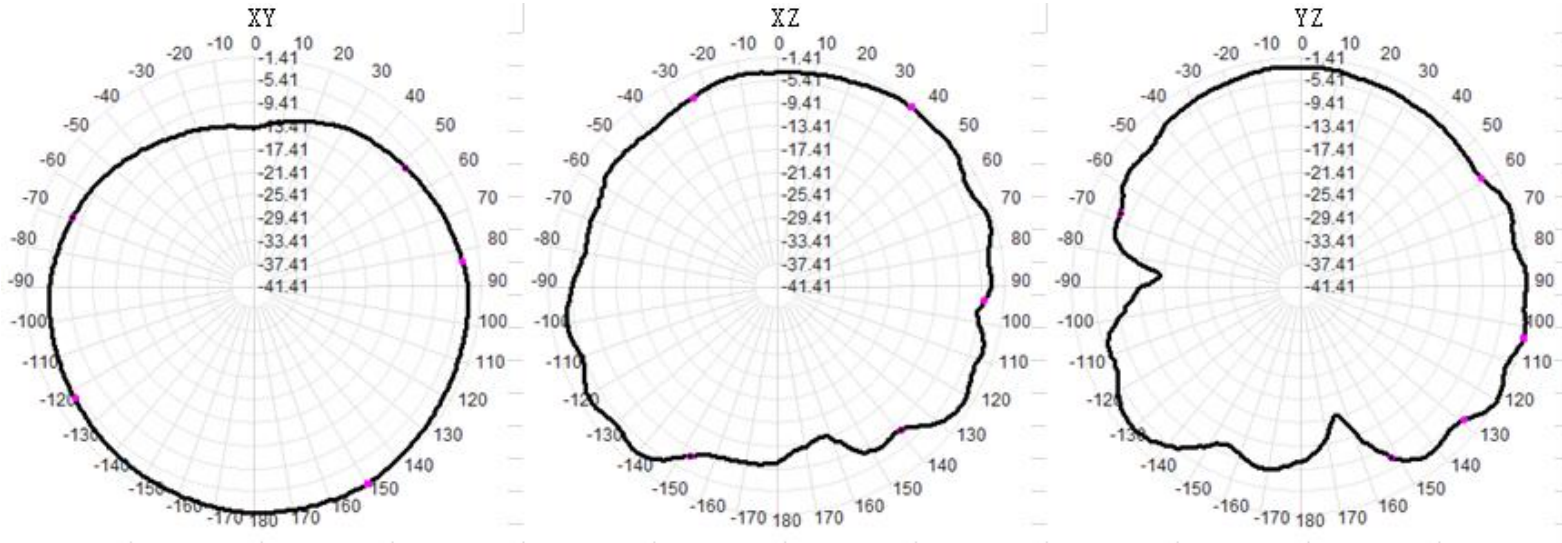


Radiation pattern: Antenna 3D Pattern at $f = 2402\text{MHz}$

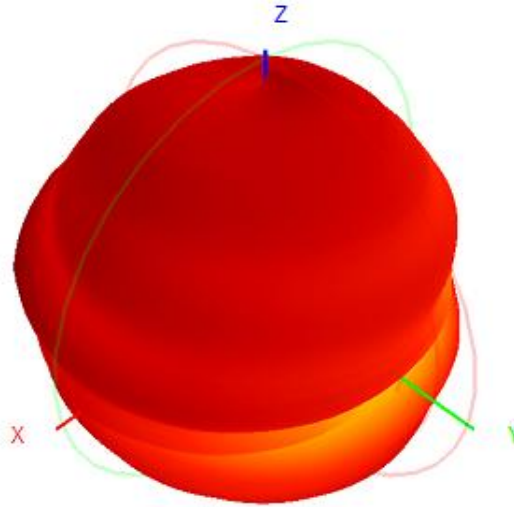
Coordinate System Reference: Antenna-RX



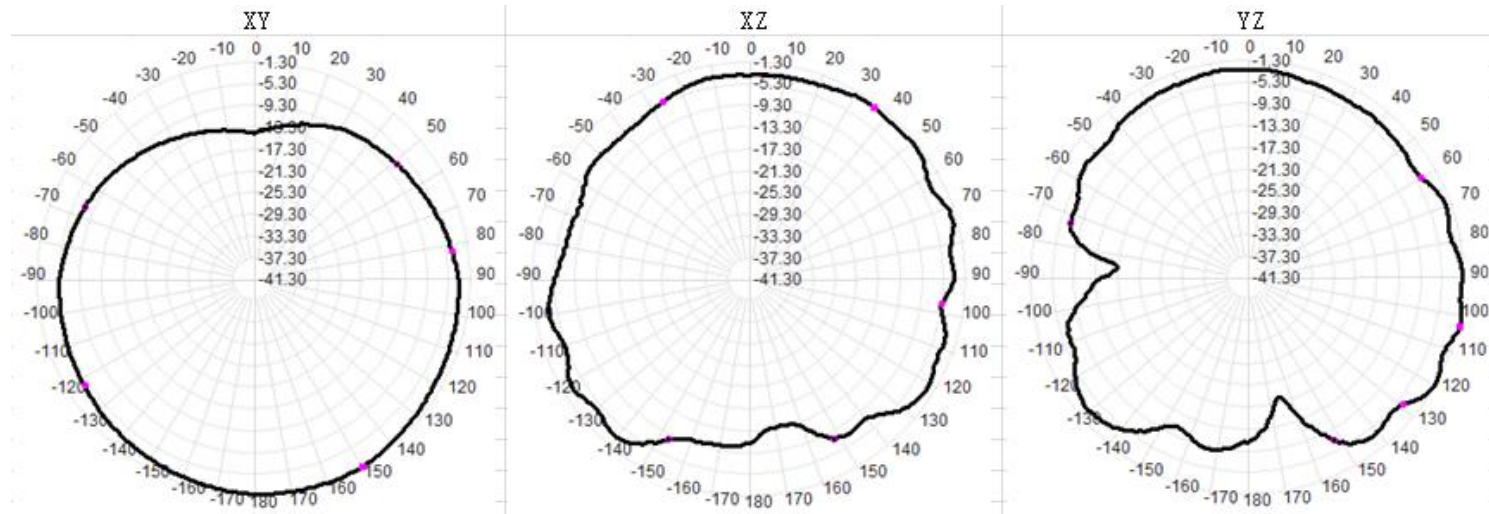
Radiation pattern: Antenna 2D Pattern at $f = 2402\text{MHz}$



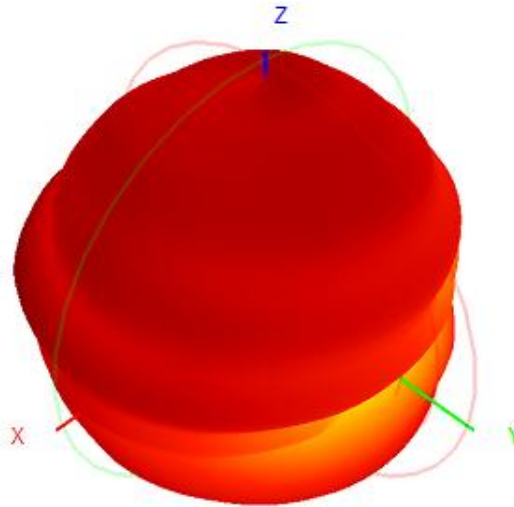
Radiation pattern: Antenna 3D Pattern at $f = 2404\text{MHz}$



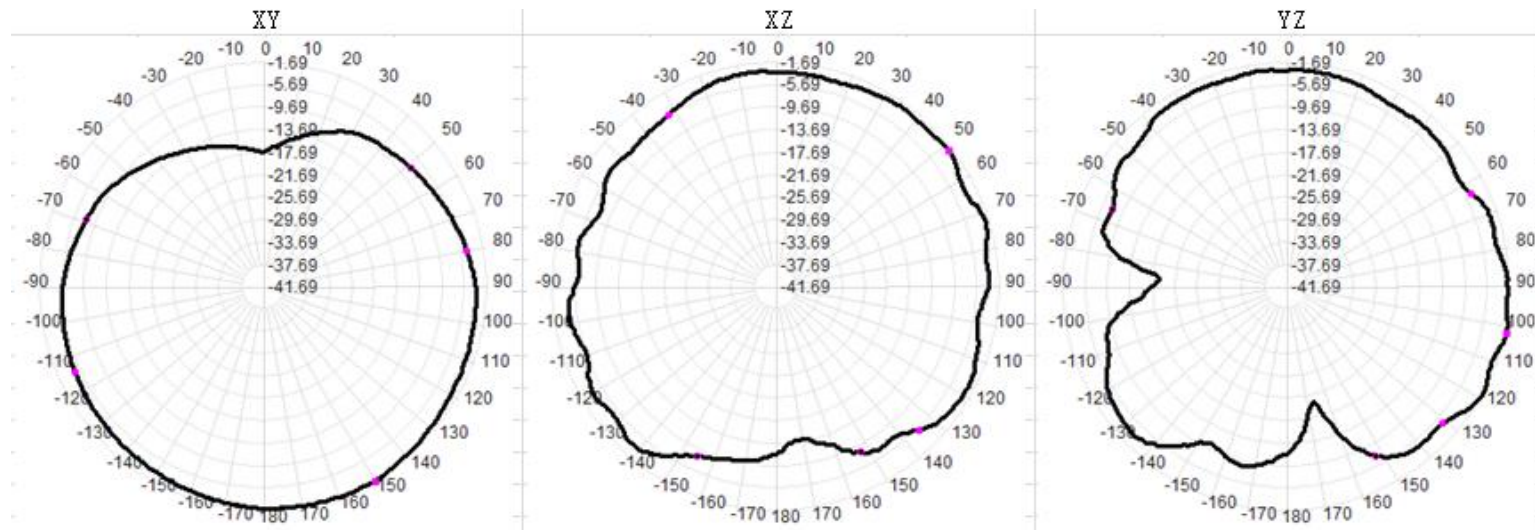
Radiation pattern: Antenna 2D Pattern at $f = 2404\text{MHz}$



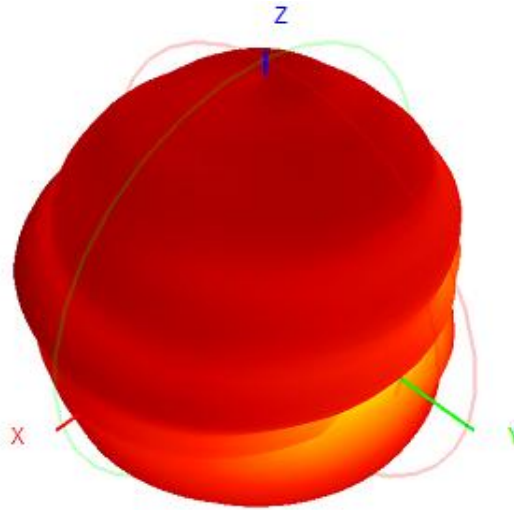
Radiation pattern: Antenna 3D Pattern at $f = 2440\text{MHz}$



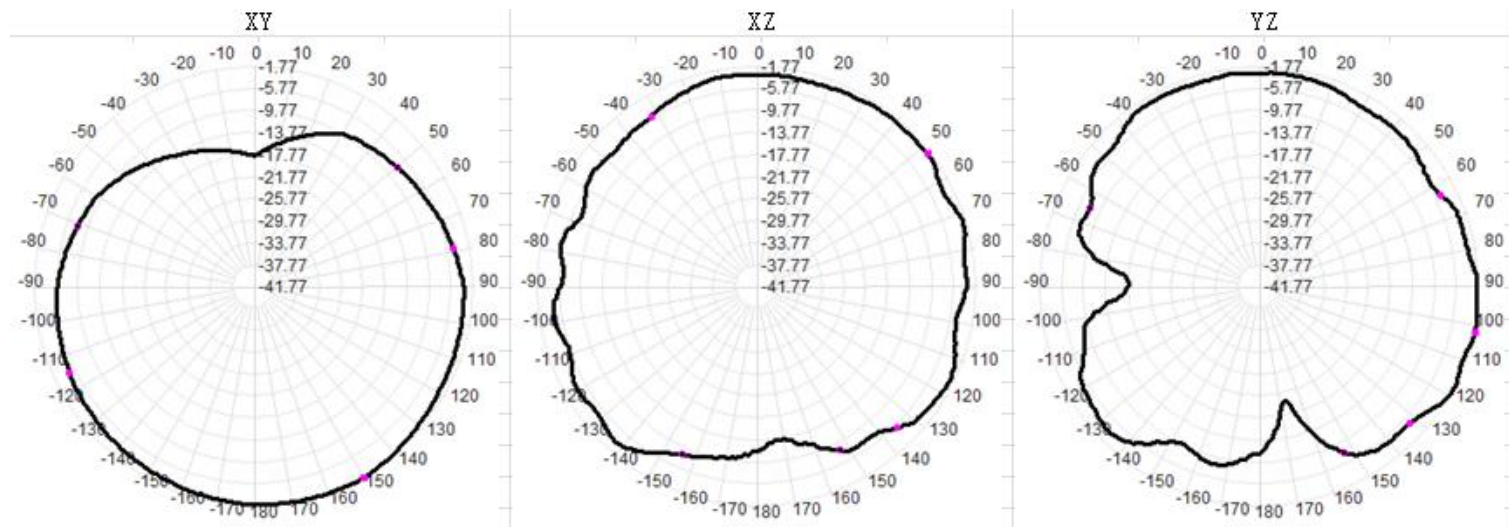
Radiation pattern: Antenna 2D Pattern at $f = 2440\text{MHz}$



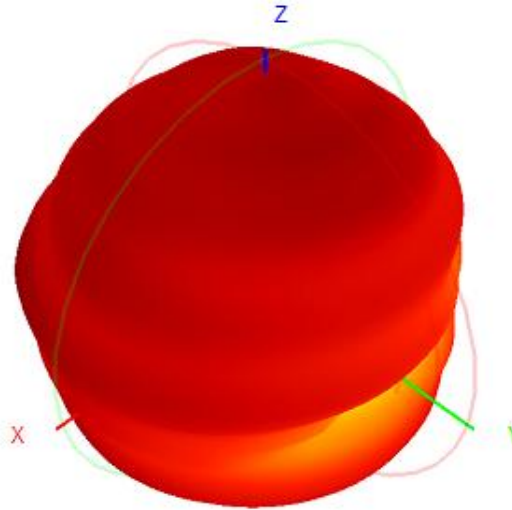
Radiation pattern: Antenna 3D Pattern at $f = 2441\text{MHz}$



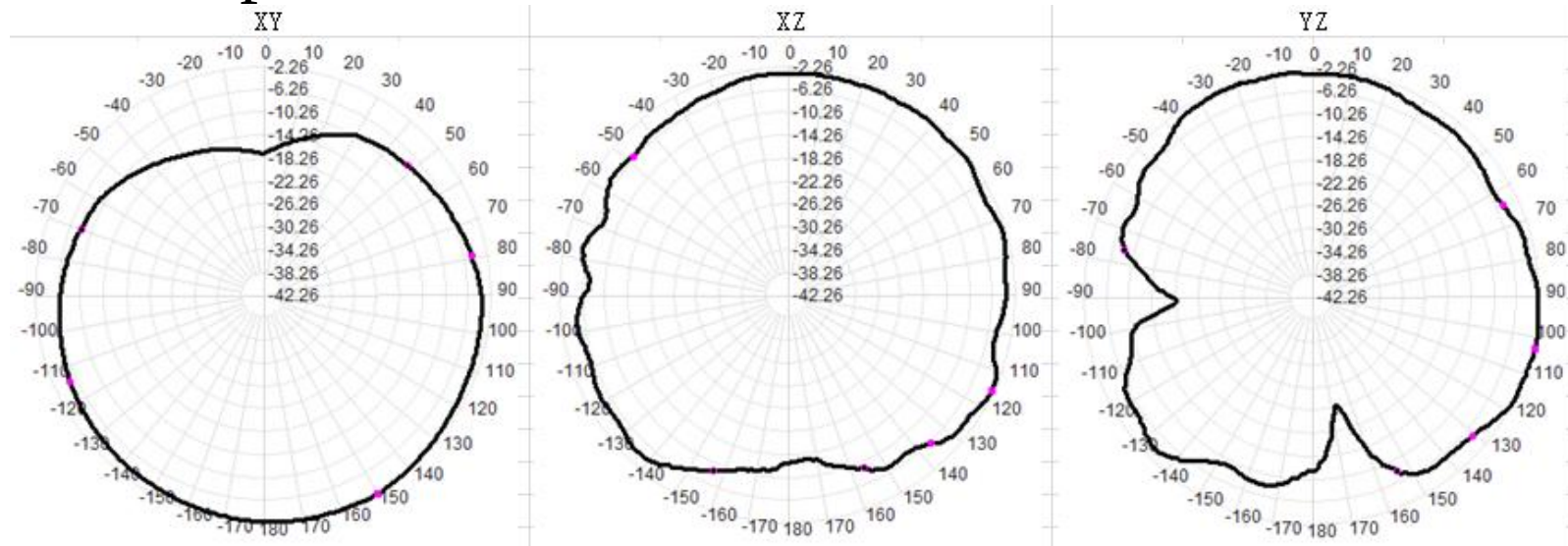
Radiation pattern: Antenna 2D Pattern at $f = 2441\text{MHz}$



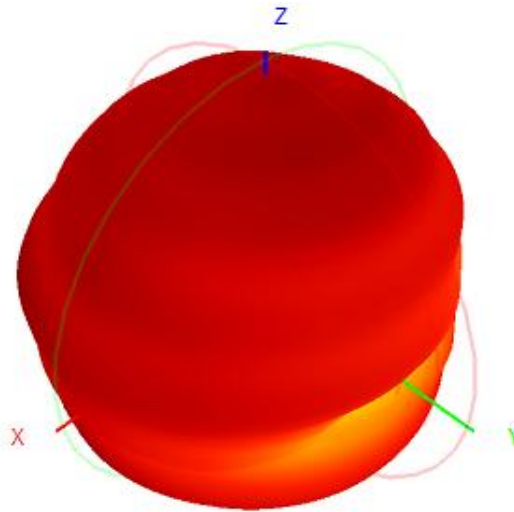
Radiation pattern: Antenna 3D Pattern at $f = 2472\text{MHz}$



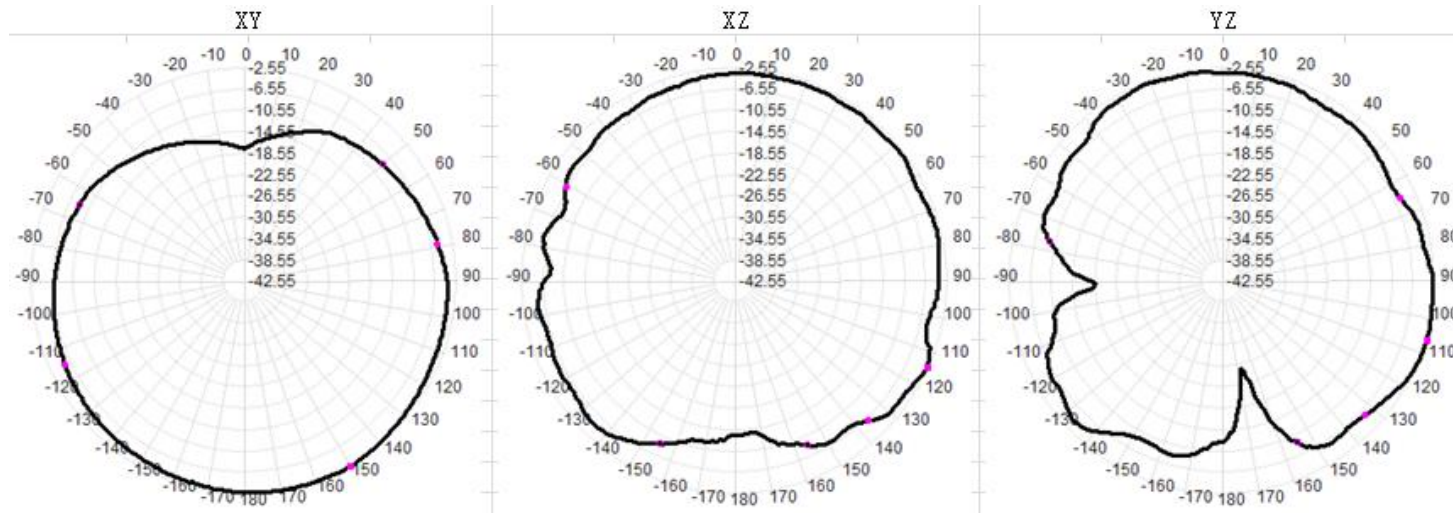
Radiation pattern: Antenna 2D Pattern at $f = 2472\text{MHz}$



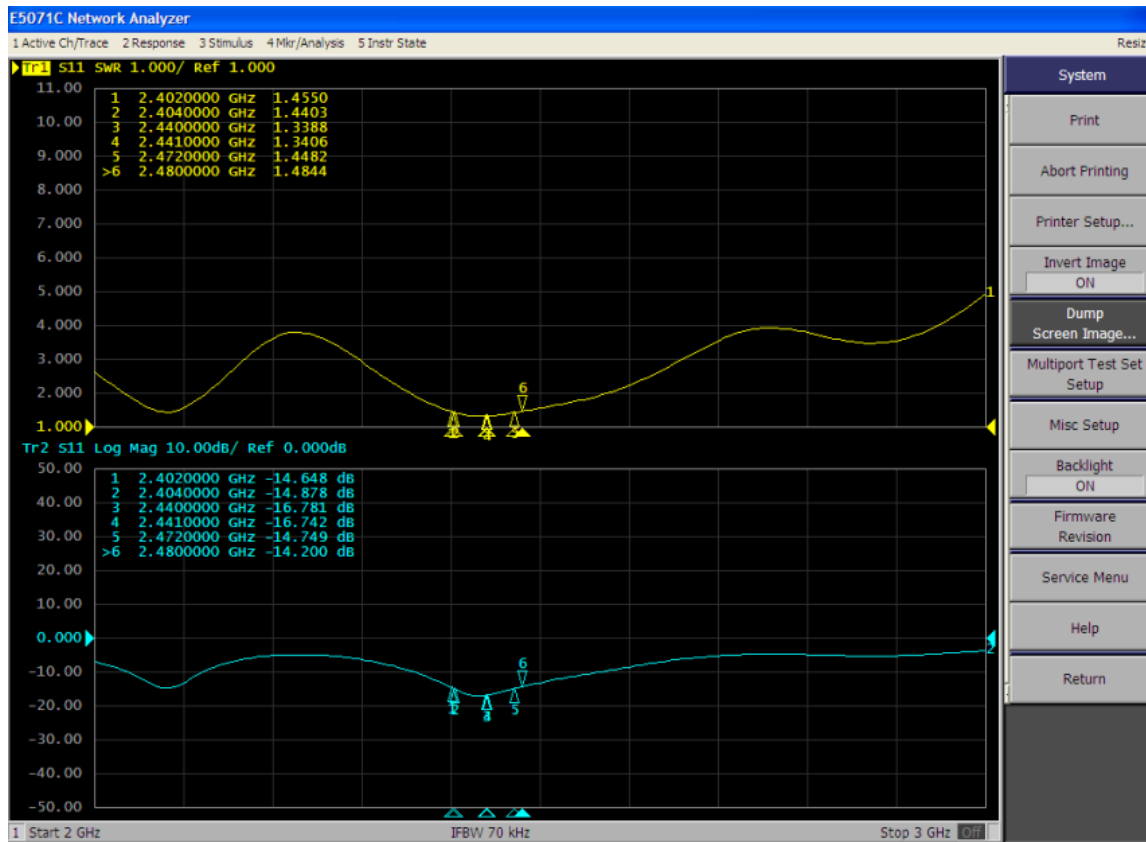
Radiation pattern: Antenna 3D Pattern at $f = 2480\text{MHz}$



Radiation pattern: Antenna 2D Pattern at $f = 2480\text{MHz}$



Return Loss: Antenna1



Measurements summary

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2402.0	2404.0	2440.0	2441.0	2472.0	2480.0
Gain (dBi)	0.11	0.22	0.24	0.25	0.13	0.21
Efficiency (%)	43.02	43.82	46.36	44.88	42.23	41.30

FPCantenna : Phosphor copper +PCB/OD=0.81mm/ Line L=75mm/IPEX(third generation)/ Black /2.4G/T=0.2mm/ AN2400-PCB52419

