

# Report for Broadcom

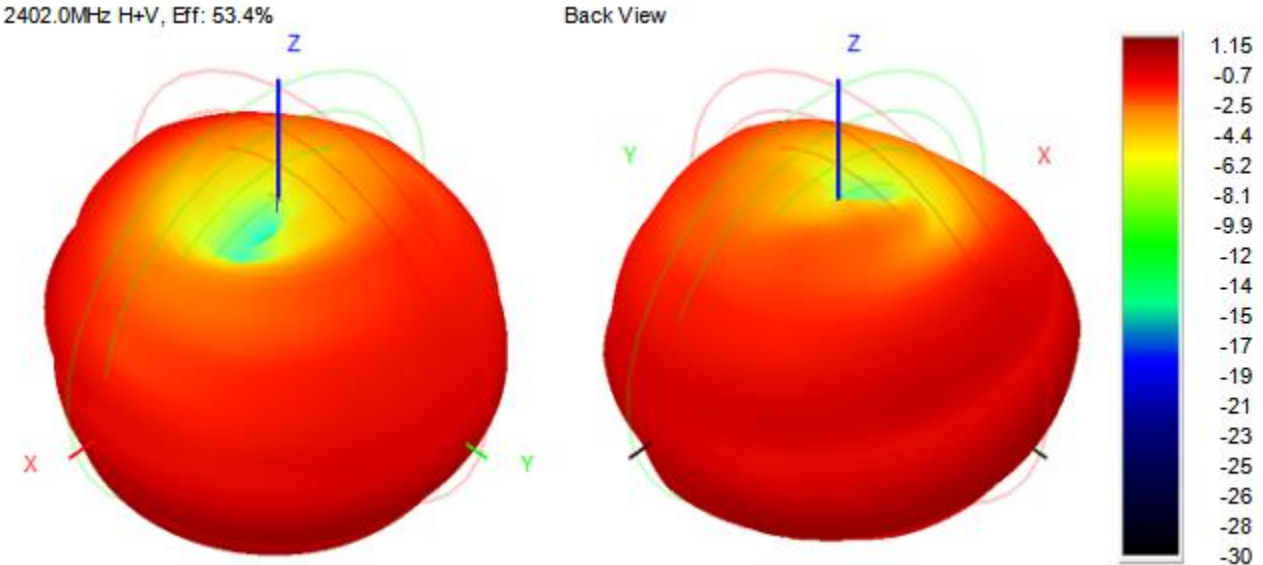
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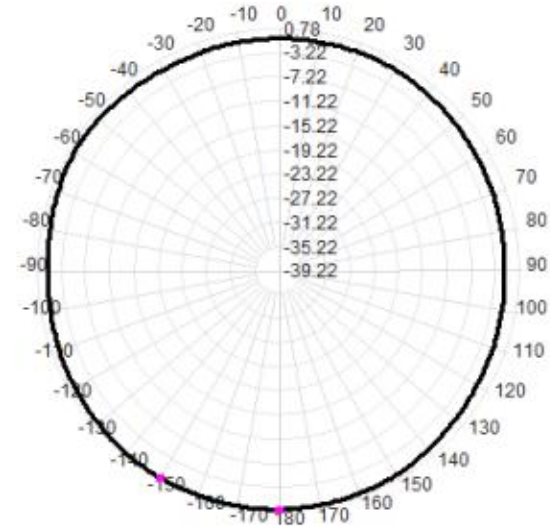
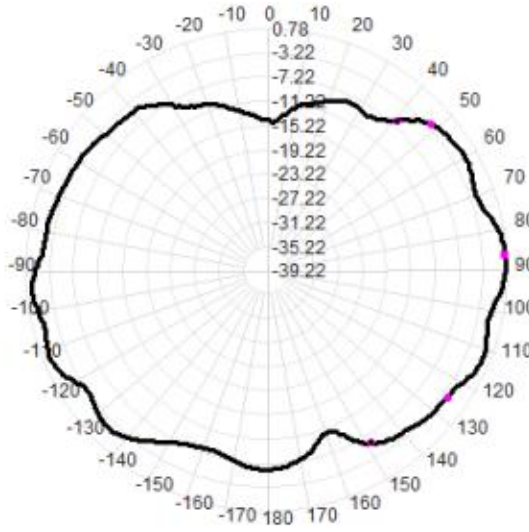
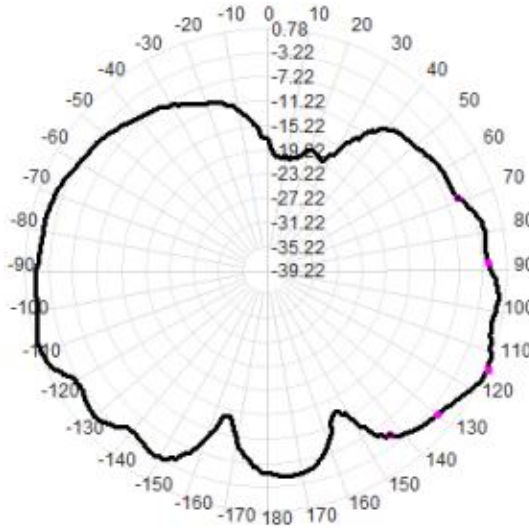
## Tested Products.

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

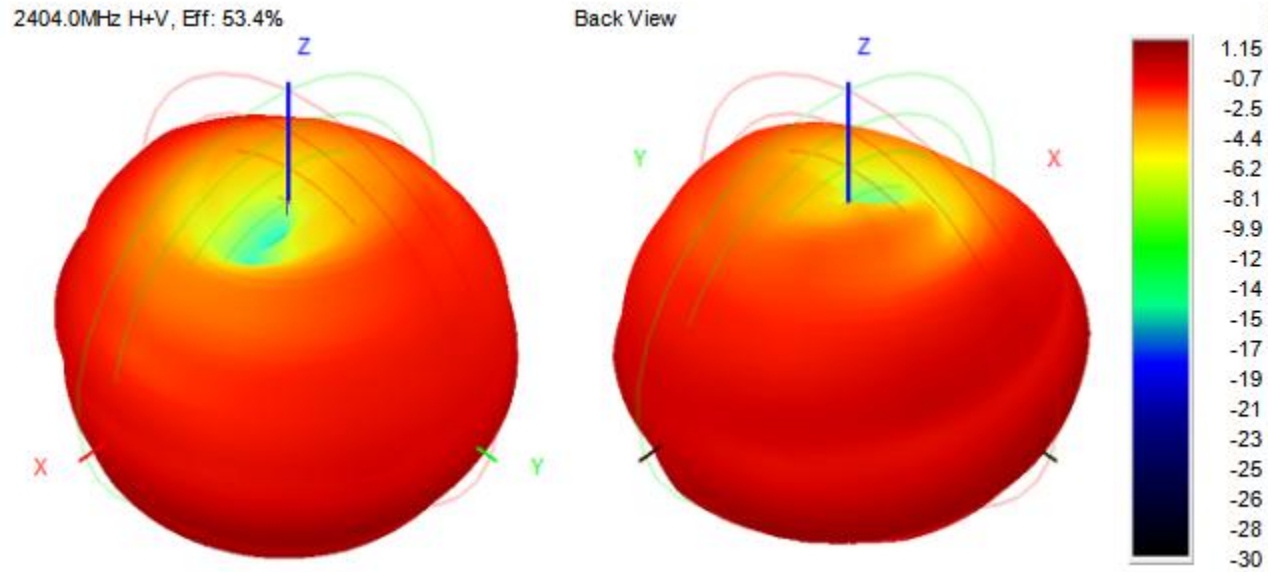
# Radiation pattern: Antenna 3D Pattern at $f = 2402\text{MHz}$ Coordinate System Reference: Antenna-RX



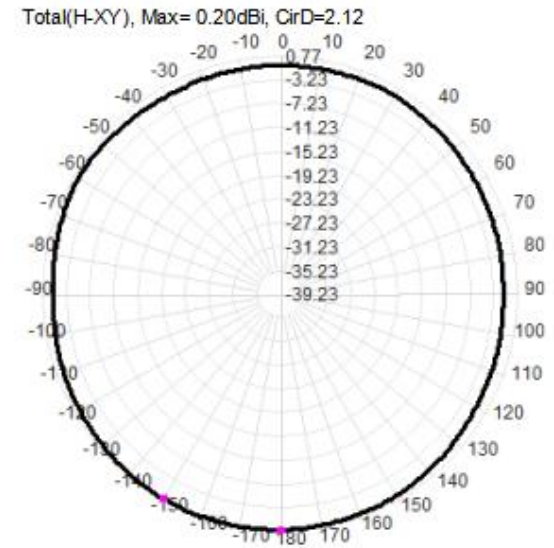
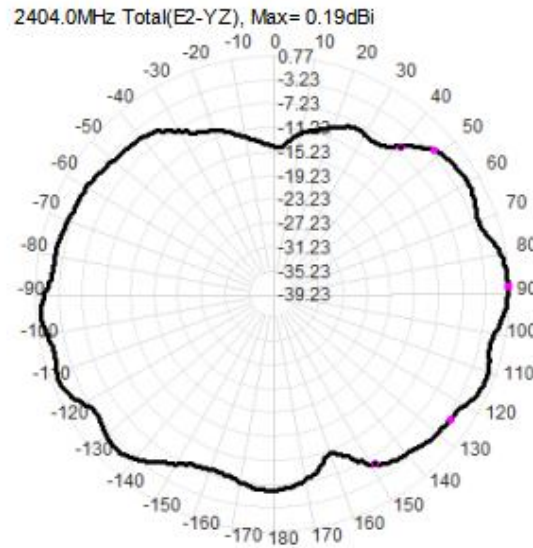
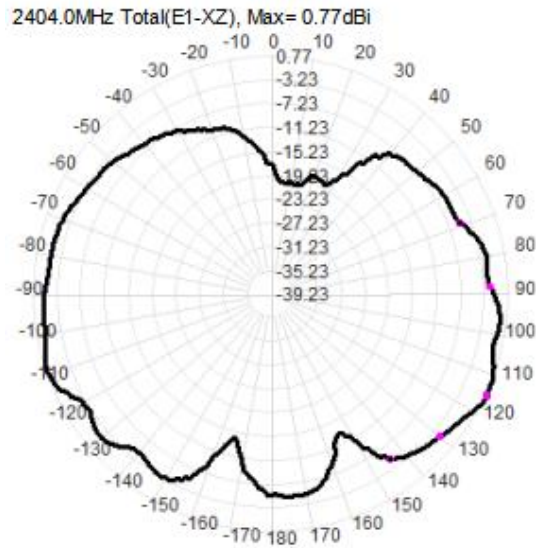
# Radiation pattern: Antenna 2D Pattern at $f = 2402\text{MHz}$



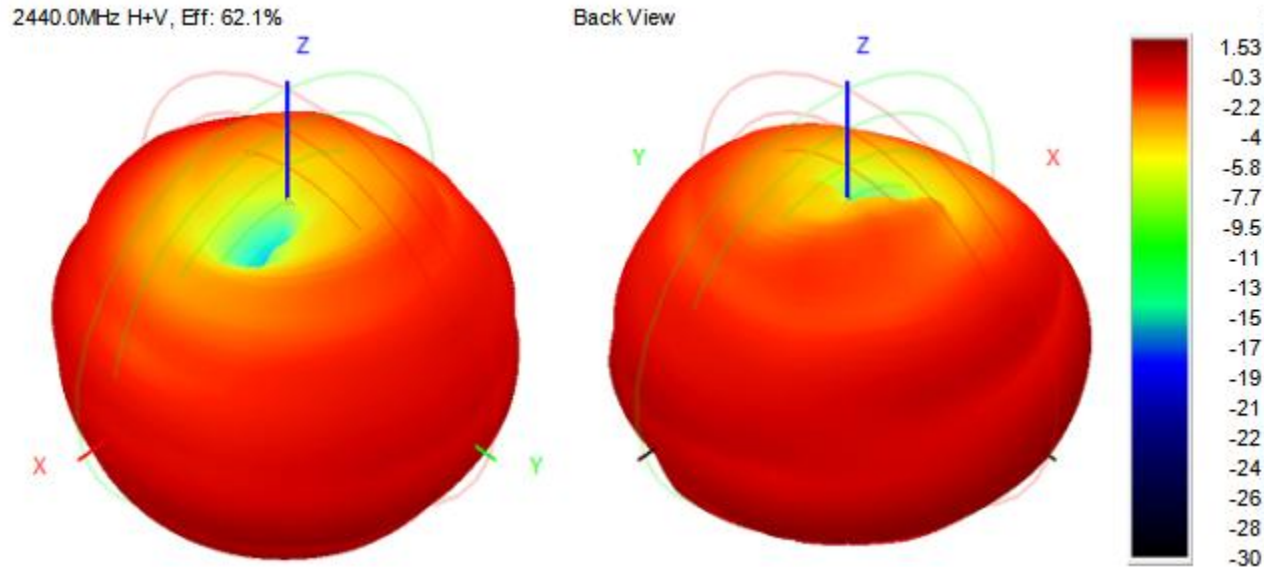
# Radiation pattern: Antenna 3D Pattern at $f = 2404\text{MHz}$



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

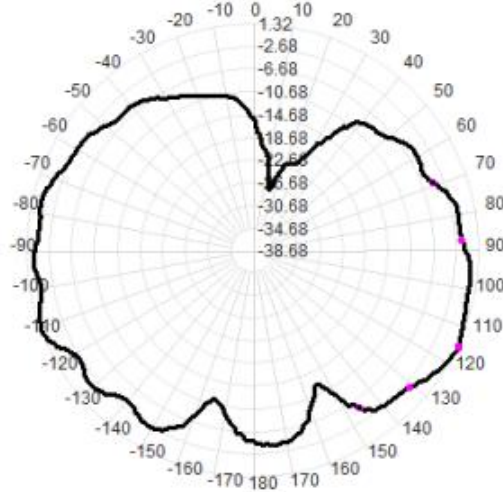


# Radiation pattern: Antenna 3D Pattern at $f = 2440\text{MHz}$

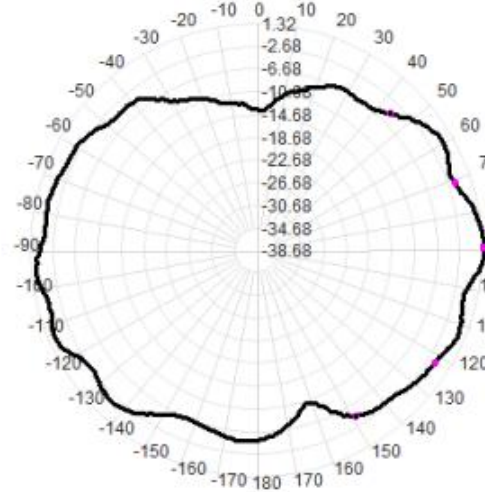


# Radiation pattern: Antenna 2D Pattern at $f = 2440\text{MHz}$

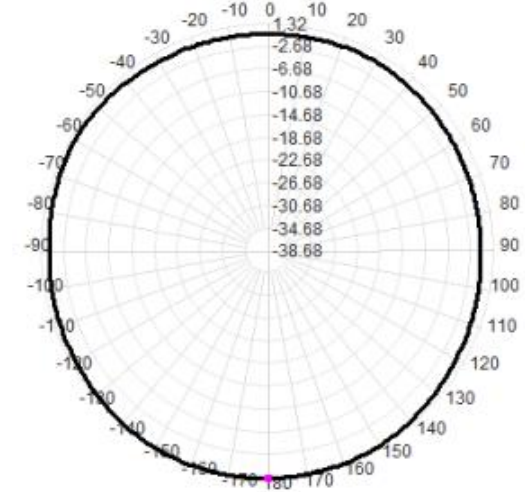
2440.0MHz Total(E1-XZ), Max= 1.12dBi



2440.0MHz Total(E2-YZ), Max= 1.32dBi

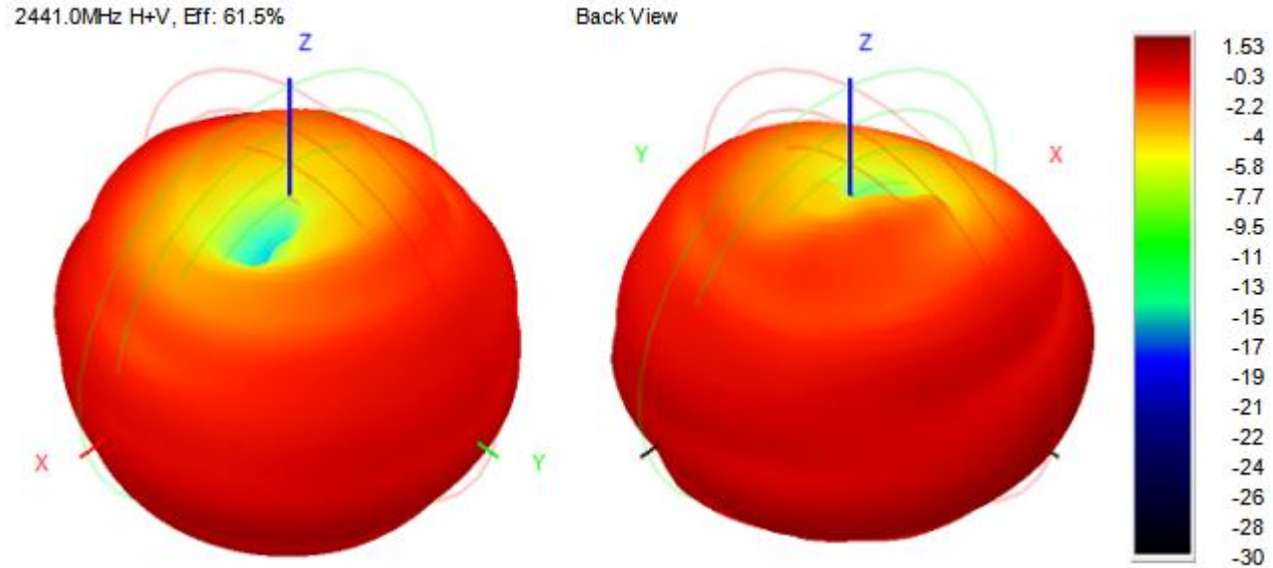


Total(H-XY), Max= 1.32dBi, CirD=2.55

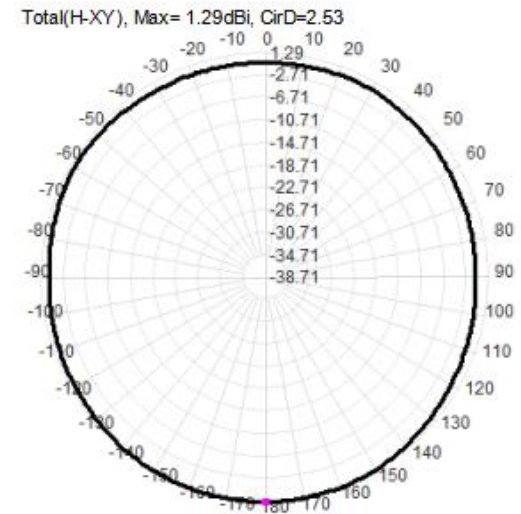
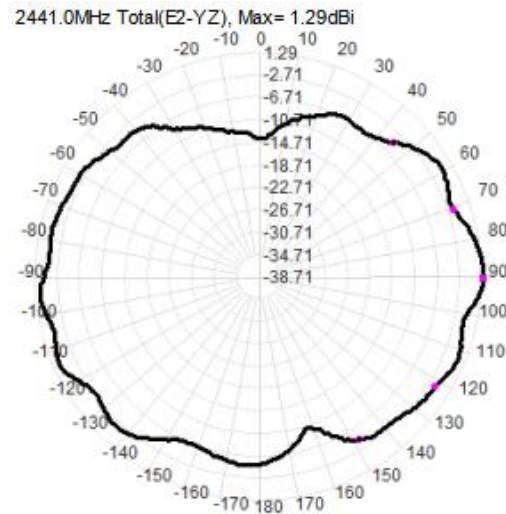
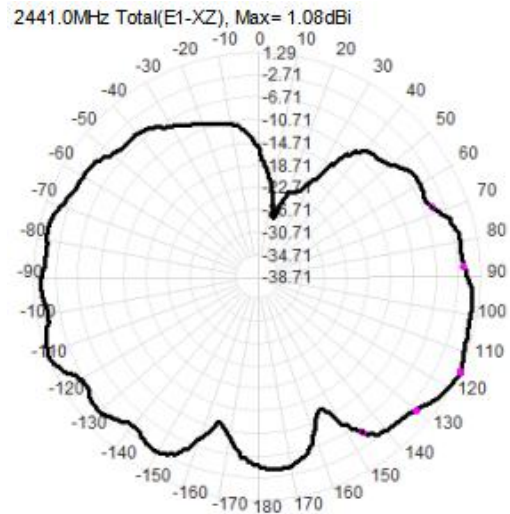




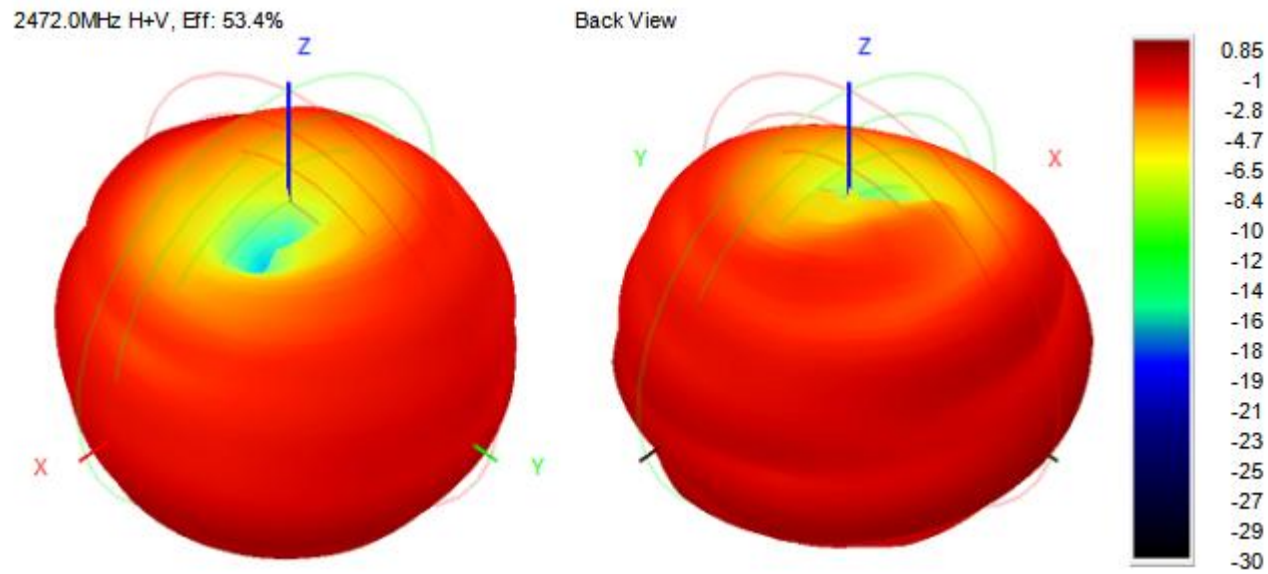
# Radiation pattern: Antenna 3D Pattern at $f = 2441\text{MHz}$



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

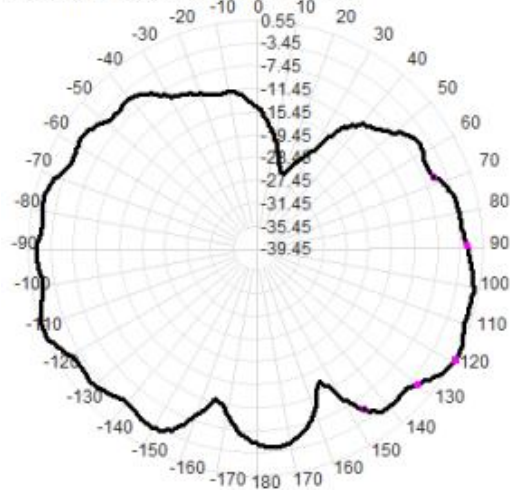


# Radiation pattern: Antenna 3D Pattern at $f = 2472\text{MHz}$

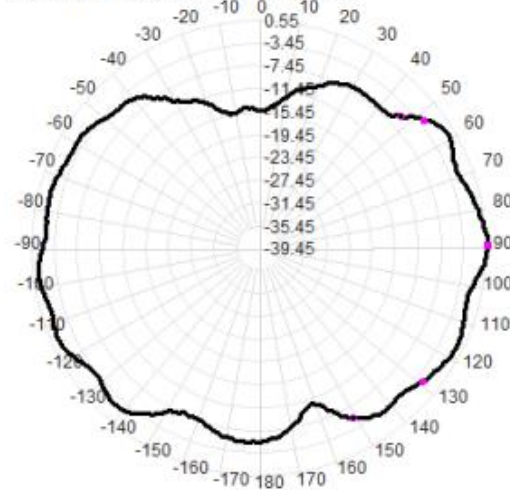


# Radiation pattern: Antenna 2D Pattern at $f = 2472\text{MHz}$

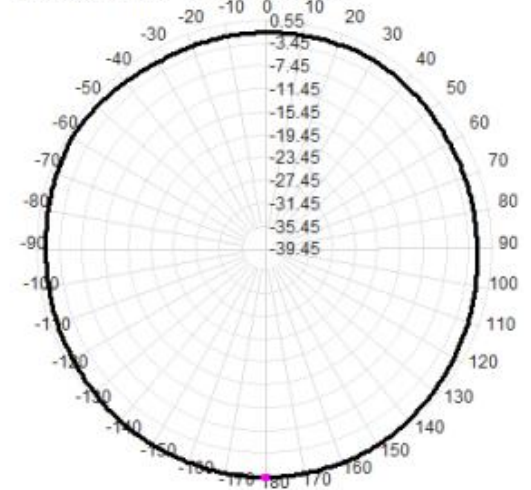
2472.0MHz Total(E1-XZ), Max= 0.55dBi



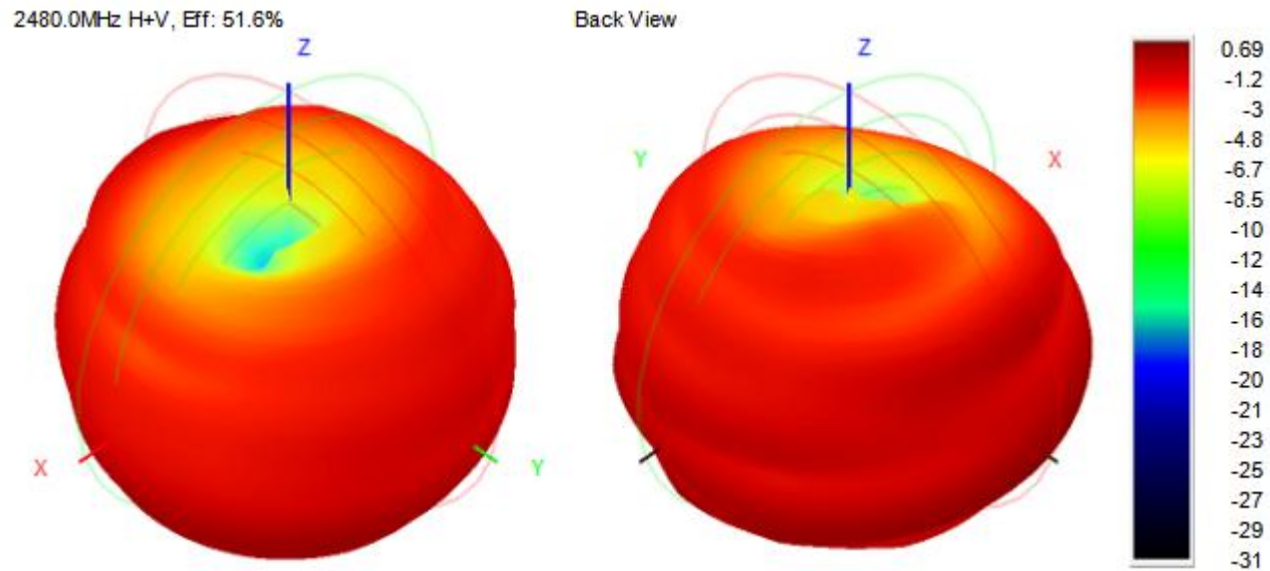
2472.0MHz Total(E2-YZ), Max= 0.55dBi



Total(H-XY), Max= 0.54dBi, CirD=2.93

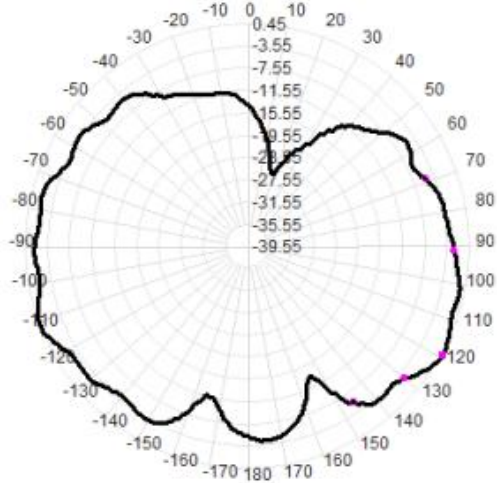


# Radiation pattern: Antenna 3D Pattern at $f = 2480\text{MHz}$

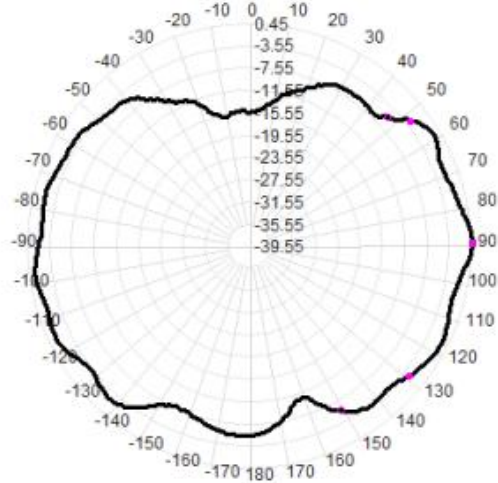


# Radiation pattern: Antenna 2D Pattern at $f = 2480\text{MHz}$

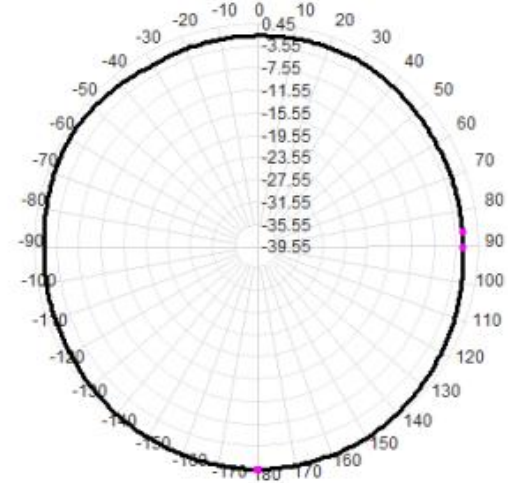
2480.0MHz Total(E1-XZ), Max= 0.45dBi



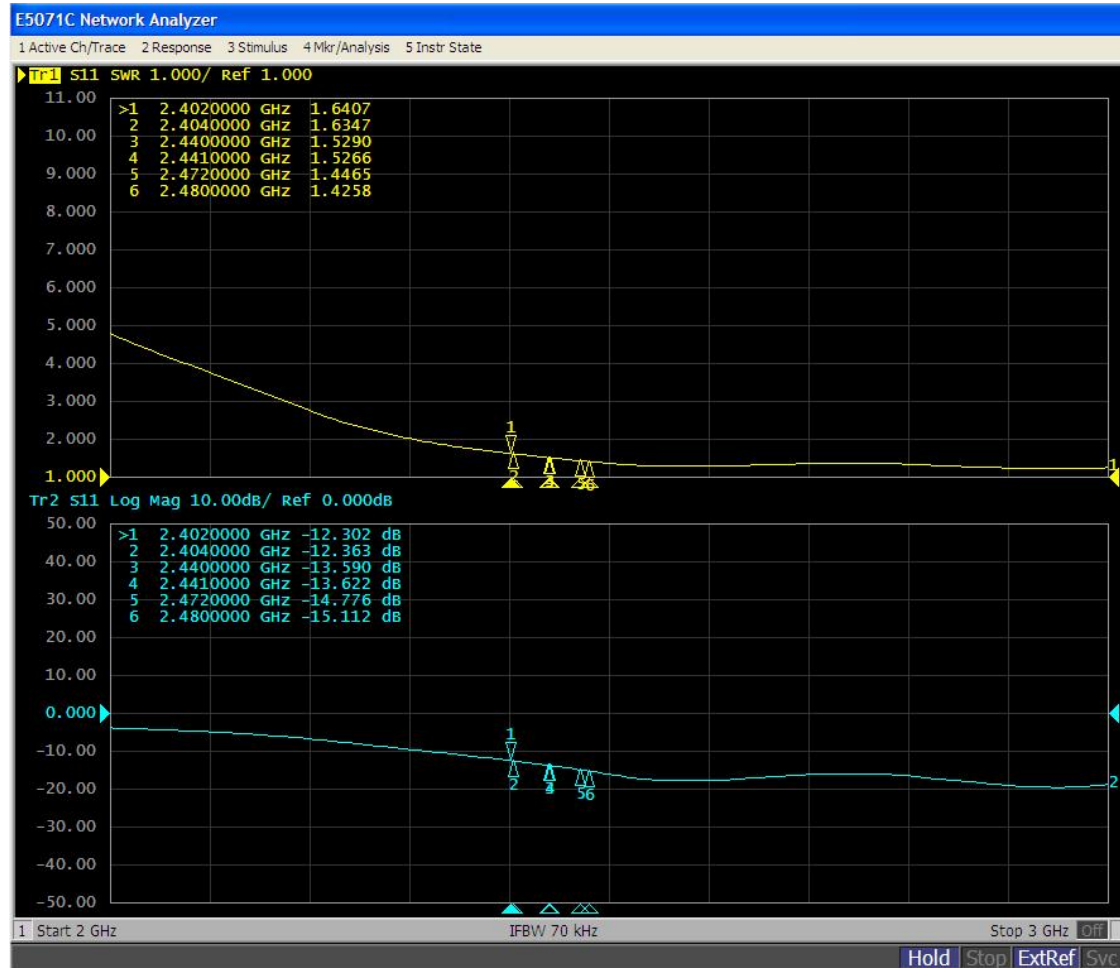
2480.0MHz Total(E2-YZ), Max= 0.42dBi



Total(H-XY), Max= 0.38dBi, CirD=3.03



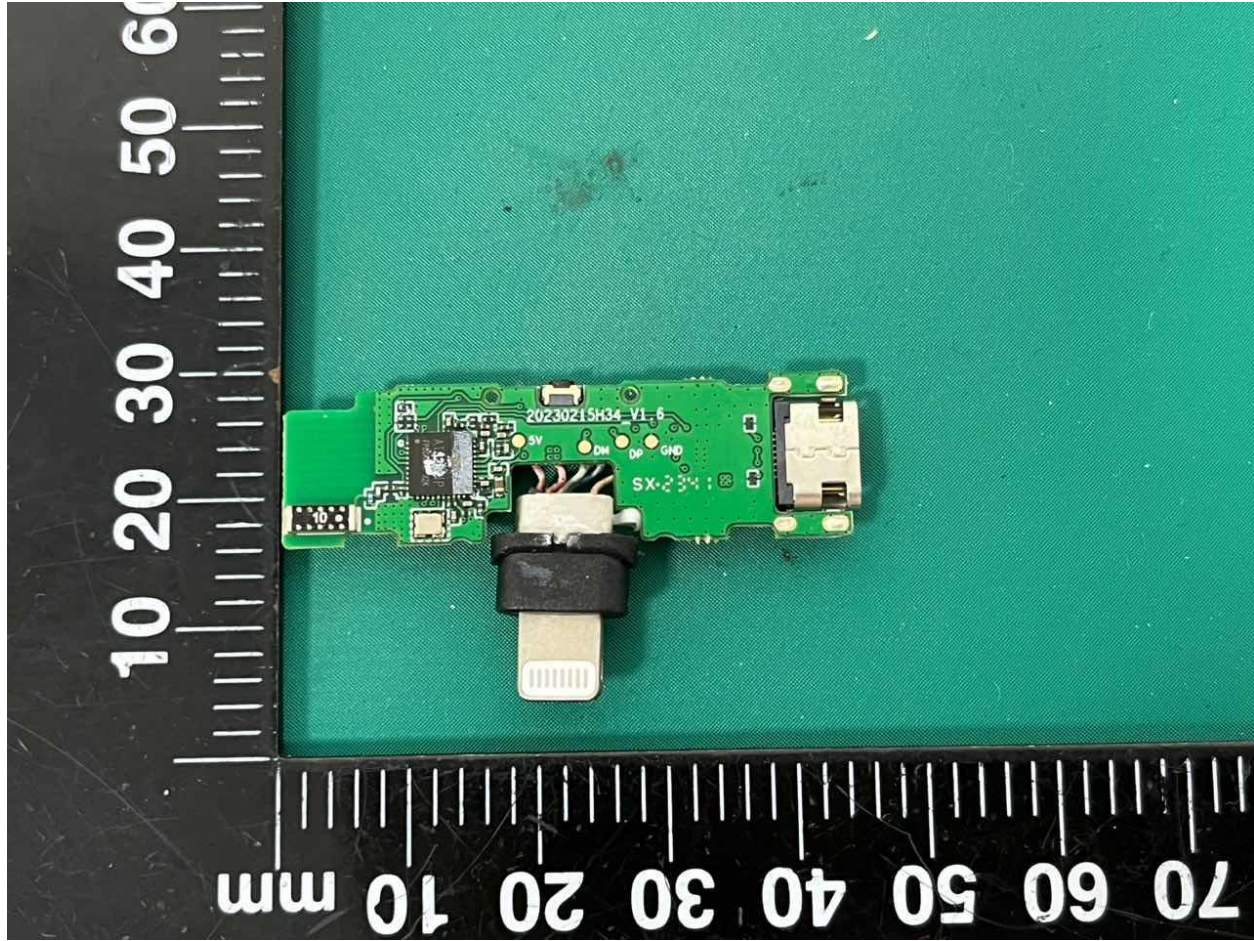
# Return Loss: Antenna1



# Measurements summary

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2402.0	2404.0	2440.0	2441.0	2472.0	2480.0
Efficiency (dBi)	-2.73	-2.72	-2.07	-2.11	-2.73	-2.87
Gain (dBi)	1.15	1.15	1.53	1.53	0.85	0.69
Efficiency (%)	53.36	53.43	62.08	61.55	53.38	51.59
Directivity (dB)	3.88	3.87	3.60	3.63	3.57	3.57
Peak Gain Position (Theta)	65.00	65.00	66.00	65.00	62.00	62.00
Peak Gain Position (Phi)	30.00	30.00	30.00	30.00	30.00	30.00
Efficiency ThetaPol (%)	50.16	50.20	57.99	57.51	49.56	47.83
Efficiency PhiPol (%)	3.20	3.23	4.09	4.03	3.82	3.76
Upper Hem. Efficiency (%)	21.13	21.08	24.76	24.55	21.03	20.24
Lower Hem. Efficiency (%)	32.23	32.35	37.31	36.99	32.35	31.35





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