

Chicony

Safe Button Antenna Report

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Antenna specification

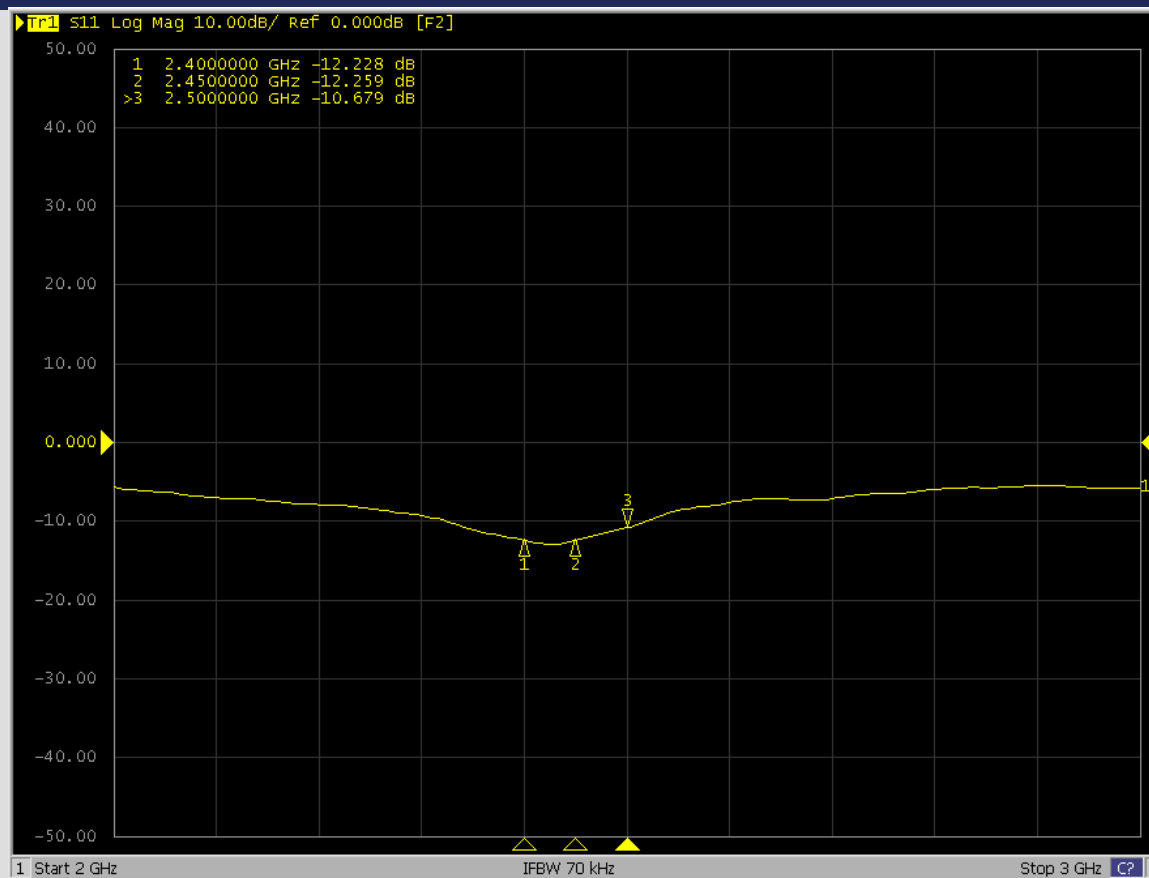


	BT Antenna
Item	Specification
Operating Frequency(MHz)	2400-2500
Bandwidth	100 MHz (Min.)
Return Loss	-10 dB (Max)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	-1.81dBi (Max)
Impedance	50Ω
Material	LDS
Maximum Power	1W
V.S.W.R	2 : 1
Radiation	Omni directional
Efficiency	>14%

Antenna photo

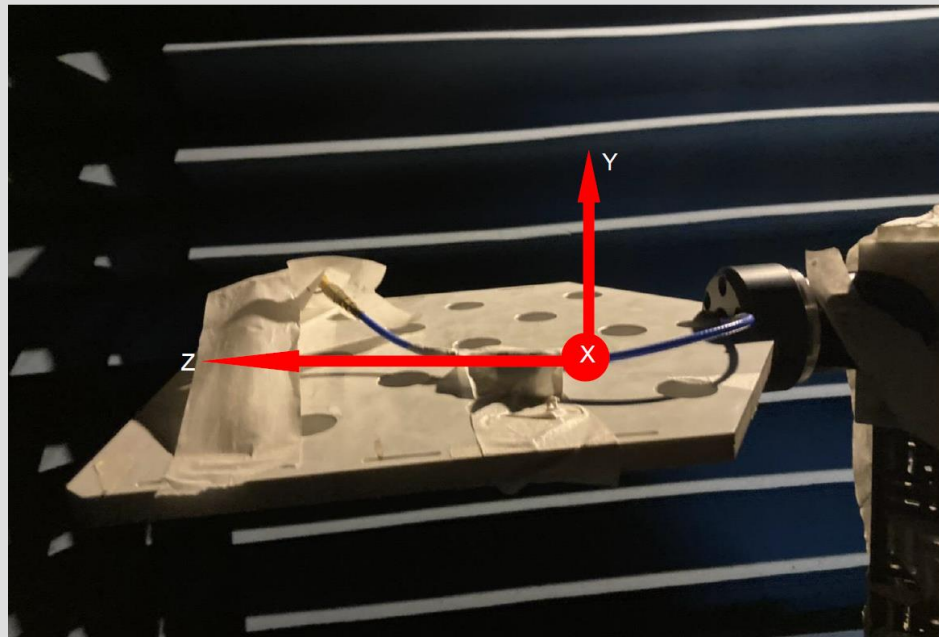
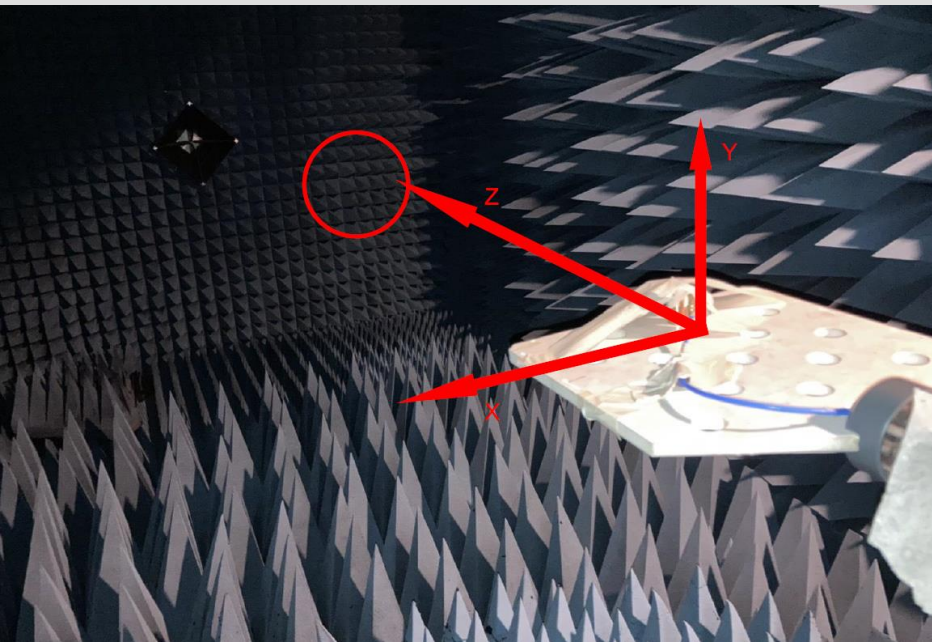


Return Loss – S11 Result



Frequency (MHz)	2400	2450	2500
dB	-12.2	-12.2	-10.6

Chamber measurement photo



3D Gain Total

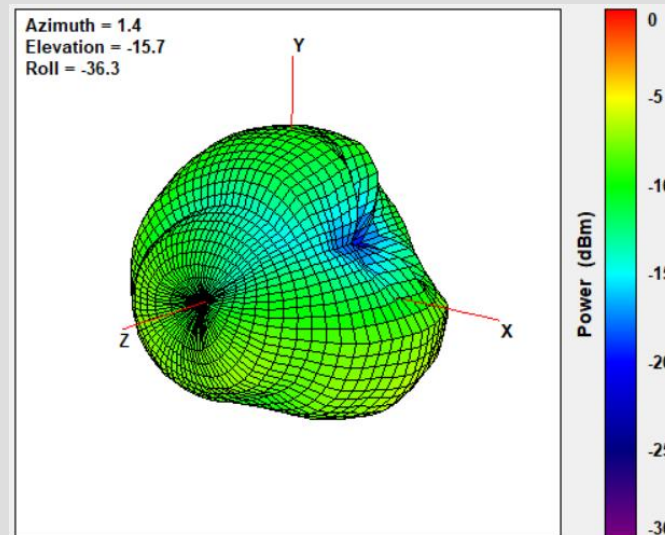
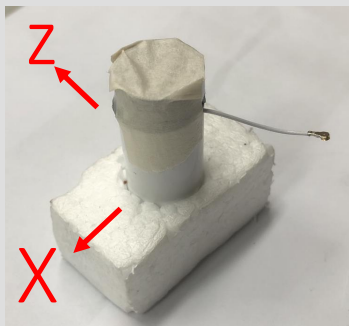


BT

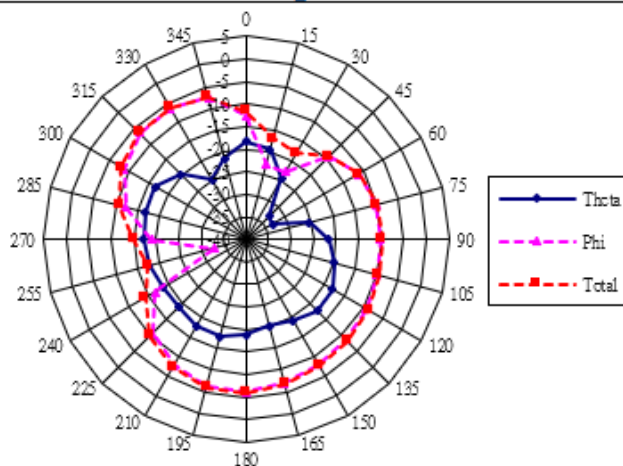
Frequency (MHz)	Peak Gain (dBi)	3D Gain (dBi)	3D Radiation Efficiency (%)
2400	-2.2	-7.47	18
2410	-1.72	-7	20
2420	-1.81	-7.05	20
2430	-1.96	-7.1	19
2440	-1.93	-6.94	20
2450	-2.55	-7.47	18
2460	-2.44	-7.12	19
2470	-2.81	-7.31	19
2480	-4.31	-8.58	14

Antenna 2D pattern

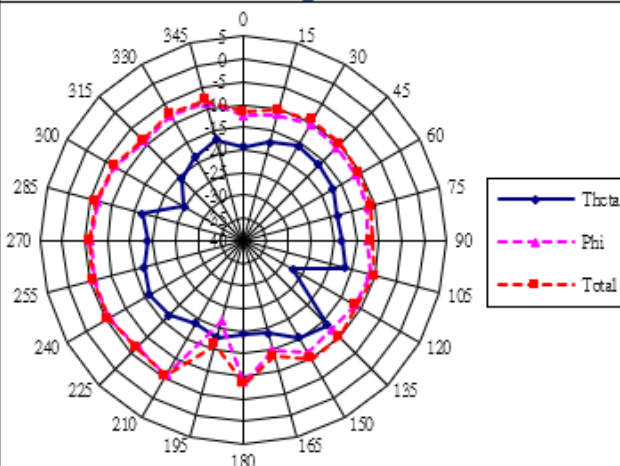
BT -2450MHz



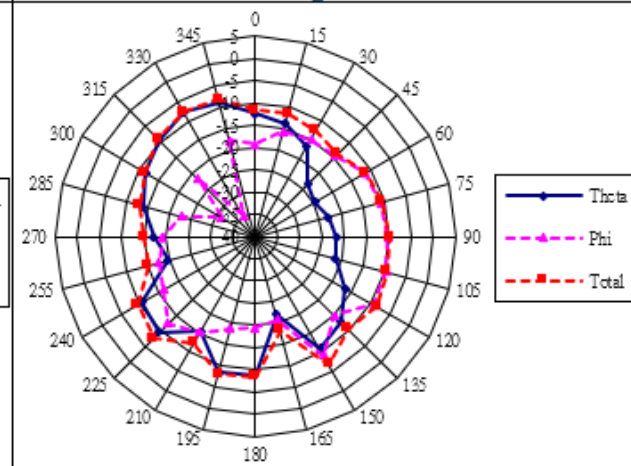
XY-plane



XZ-plane



YZ-plane



TRP



	2402MHz	2440MHz	2480MHz
Point Values			
Ant. Port Input Pwr. (dBm)	6	6.00	6
Tot. Rad. Pwr. (dBm)	-0.55	-1.02	-0.42
Peak EIRP (dBm)	2.88	2.53	3.54
Directivity (dBi)	3.43	3.56	3.96
Efficiency (dB)	-6.55	-7.02	-6.42
Efficiency (%)	22.13	19.85	22.81
Gain (dBi)	-3.12	-3.47	-2.46