



Product Name: LTE Terminal Antenna

Part Number: TA-5B-A-L01

Features:

- Tiny Dimension
- Support LTE 698-960MHz, 1710-2690MHz
- Connector: RP-SMA(Male)
- Dimension (mm): $\phi 7.8$ (Dia.) x 65.7(L)
- RoHS & REACH Compliant

Applications:

- AP Router Application
- Handheld Device Application

LTE Terminal Antenna

MODEL: TA-5B-A-L01

Rev.A

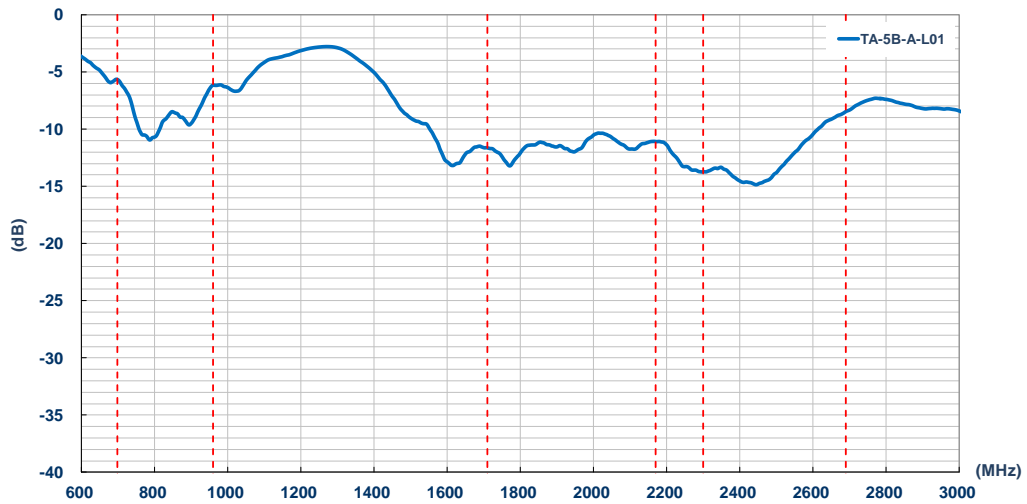
I. Specifications:

Category	Specifications					
LTE Electrical Characteristics						
Application Bands	LTE 700	GSM 850/900	DCS	PCS	UMTS1	LTE2600
Frequencies (MHz)	698 ~ 824	824 ~ 960	1710 ~ 1880	1850 ~ 1990	1920 ~ 2170	2300 ~ 2690
Efficiency (%)	64.09	65.03	60.61	70.89	73.27	67.88
Average Gain (dBi)	-1.93	-1.87	-2.17	-1.49	-1.35	-1.68
Peak Gain (dBi)	2.95	2.78	3.11	4.84	4.84	4.32
V.S.W.R	< 3					
Return Loss (dB)	< -6					
Test Condition	215 x 125 x 15 mm (With Ground Box)					
Impedance (Ω)	50					
Polarization	Linear					
Physical Condition						
Dimension (mm)	ϕ 7.8(D) x 65.7(L)					
Connector	RP-SMA(Male)					
Waterproof	IP66					
Environmental Conditions						
Operation Temperature	-40 ~ +85 °C					
Storage Temperature	-40 ~ +85 °C					
Relative Humidity	95% non-condensing					

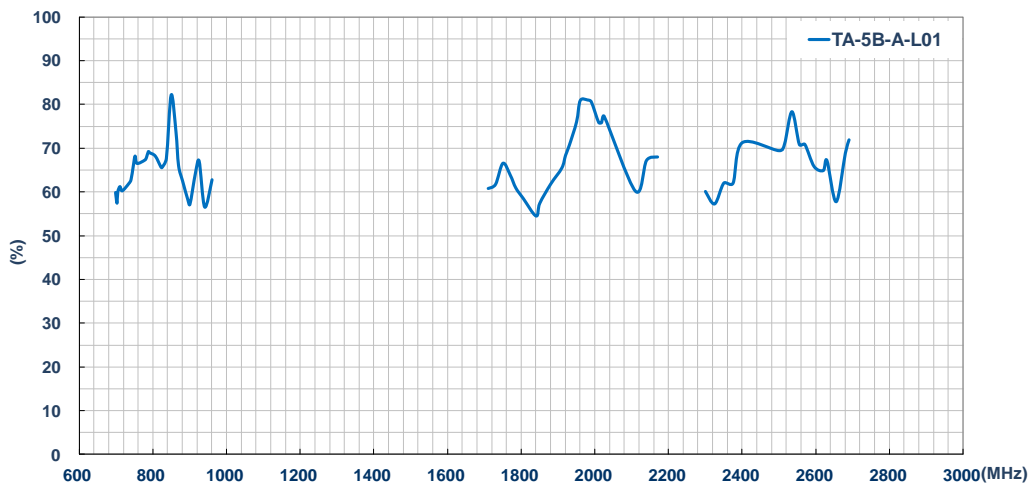
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II. Antenna Technical Parameters:

S11 (dB)

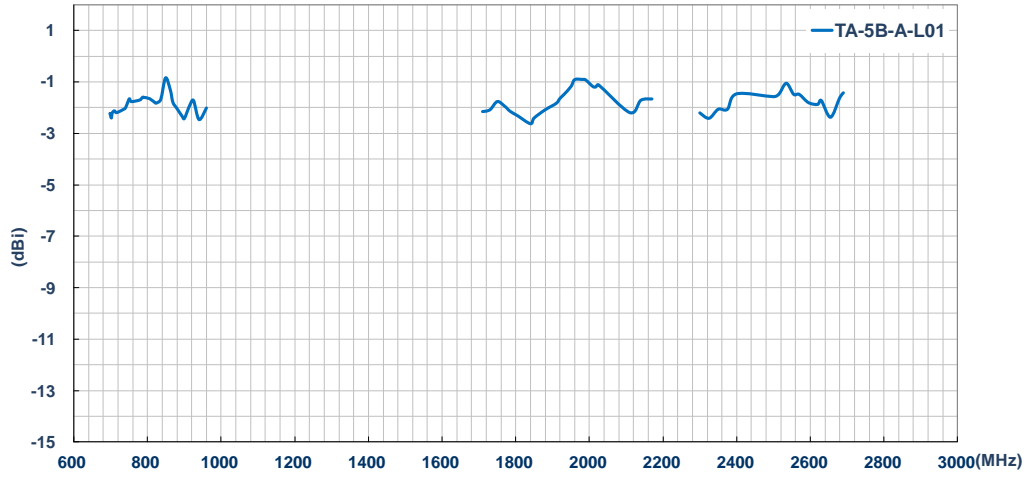


Efficieny (%)

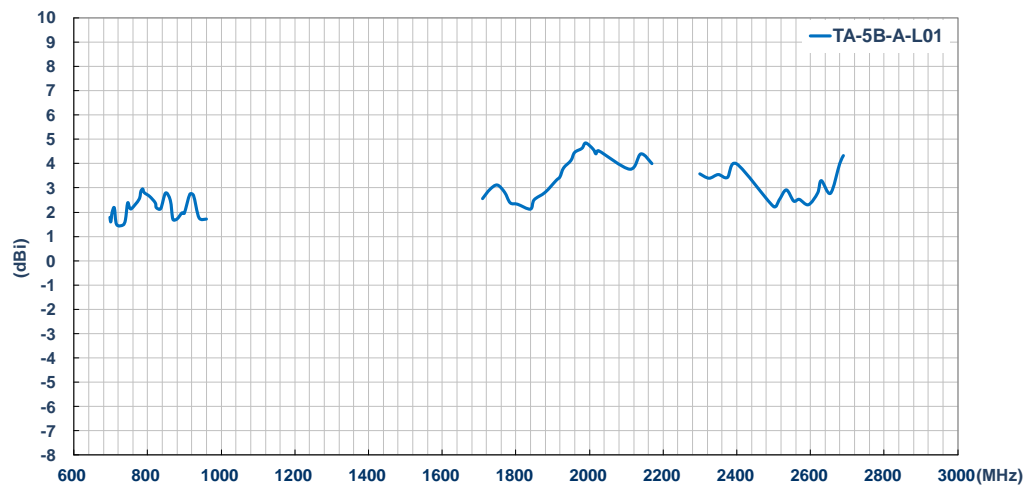


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Average Gain (dBi)

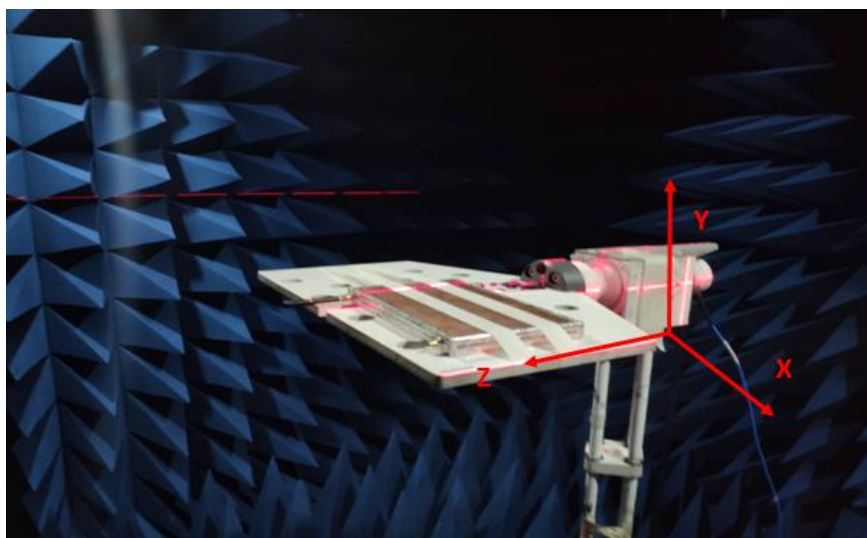


Peak Gain (dBi)



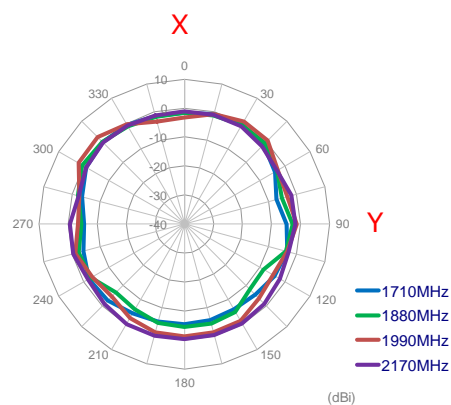
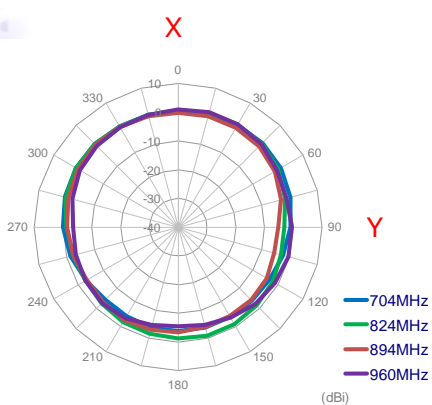
III. Antenna Radiation Pattern Measurement:

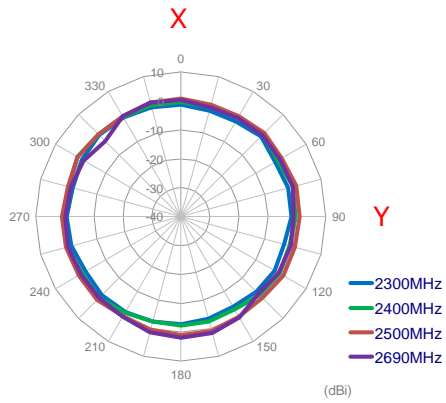
The antenna radiation patterns are measured in 3D Anechoic Chamber. The measurement setup is as show below,



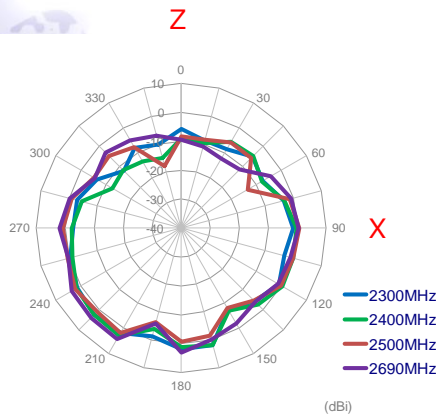
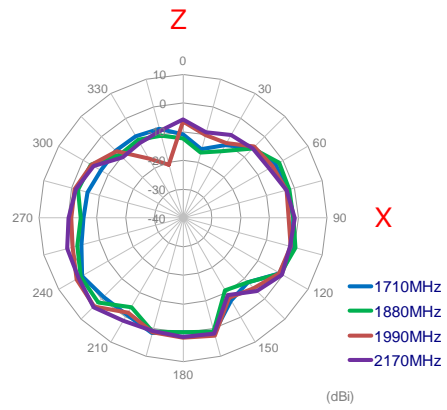
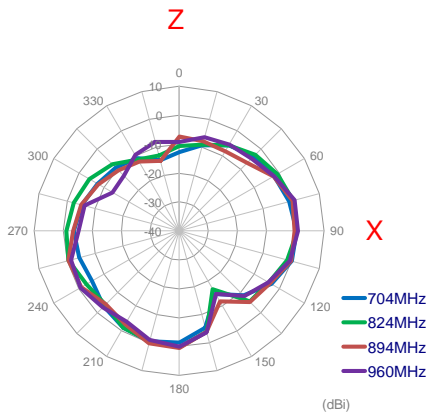
IV. 2D Radiation Pattern:

X-Y plane

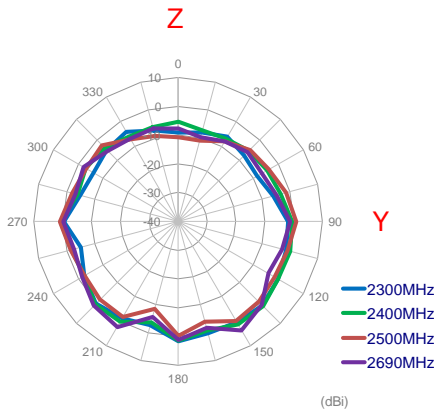
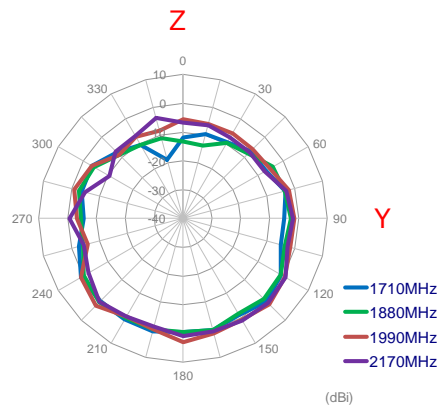
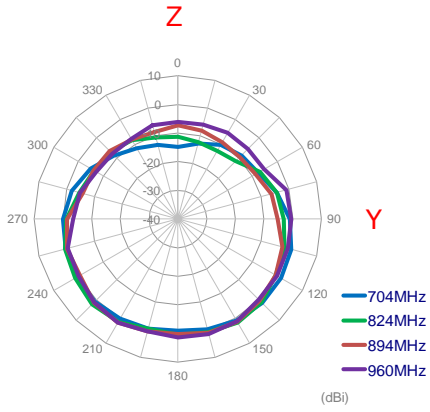




X-Z plane

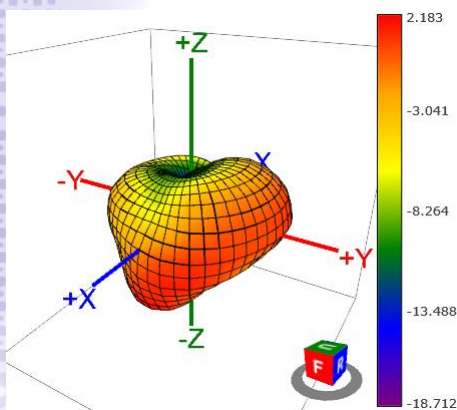


Y-Z plane

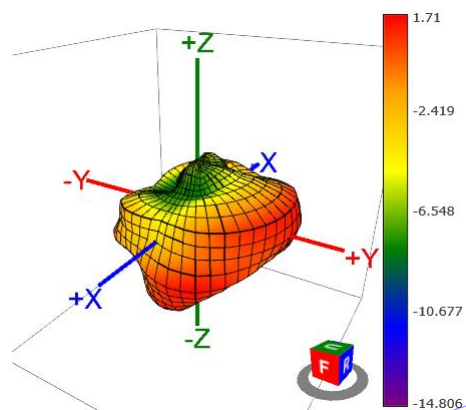


V. 3D Radiation Pattern:

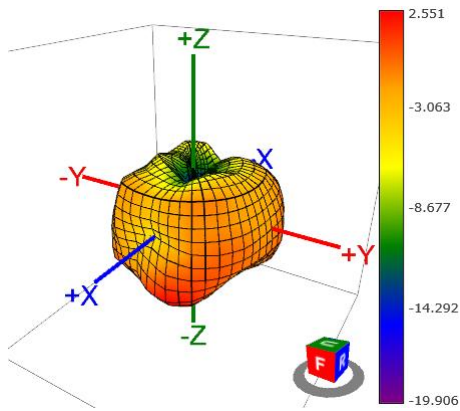
824MHz



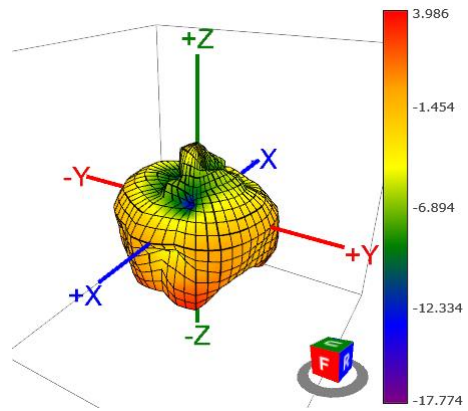
960MHz



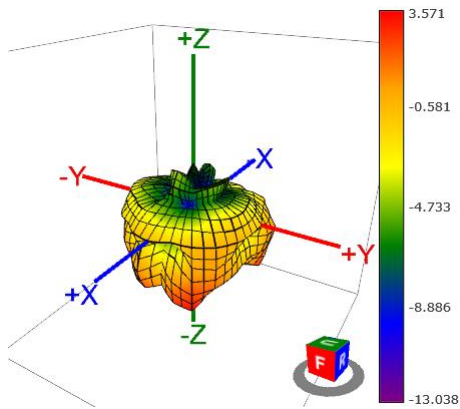
1710MHz



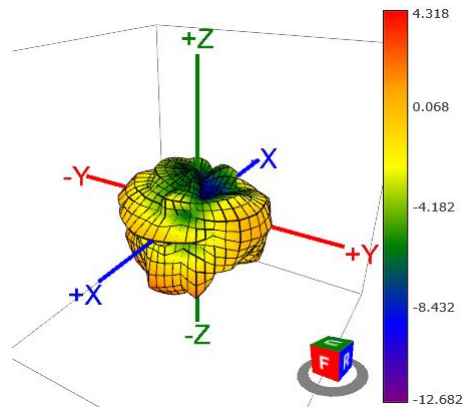
2170MHz



2300MHz



2690MHz



VI. Mechanical Drawing (Unit:mm):

