

1. Test Content:

BT Antenna in SP06 pattern measurement

2. Test Item:

Efficiency, Radiation Pattern, Total Gain, Average Gain

3. Test Setting:

Network Analyzer: Agilent E5071C

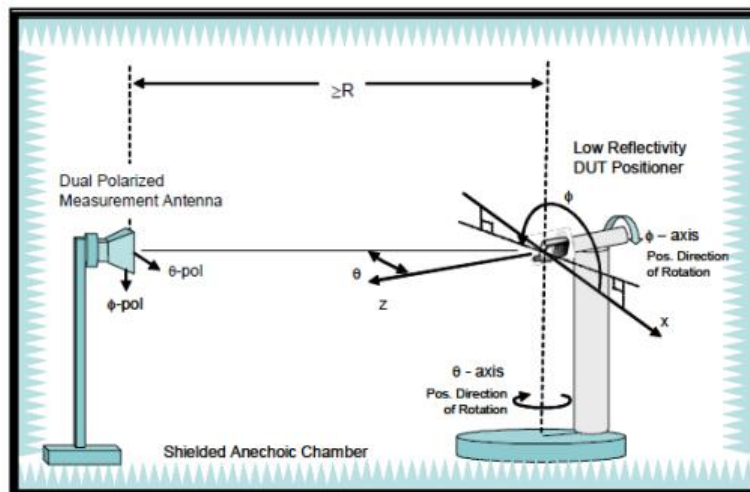
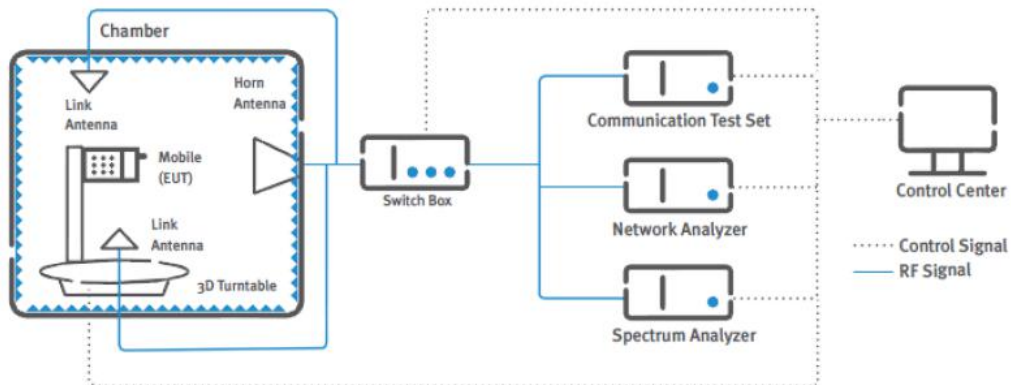
Source Antenna: Dual Polarization Horn Antenna

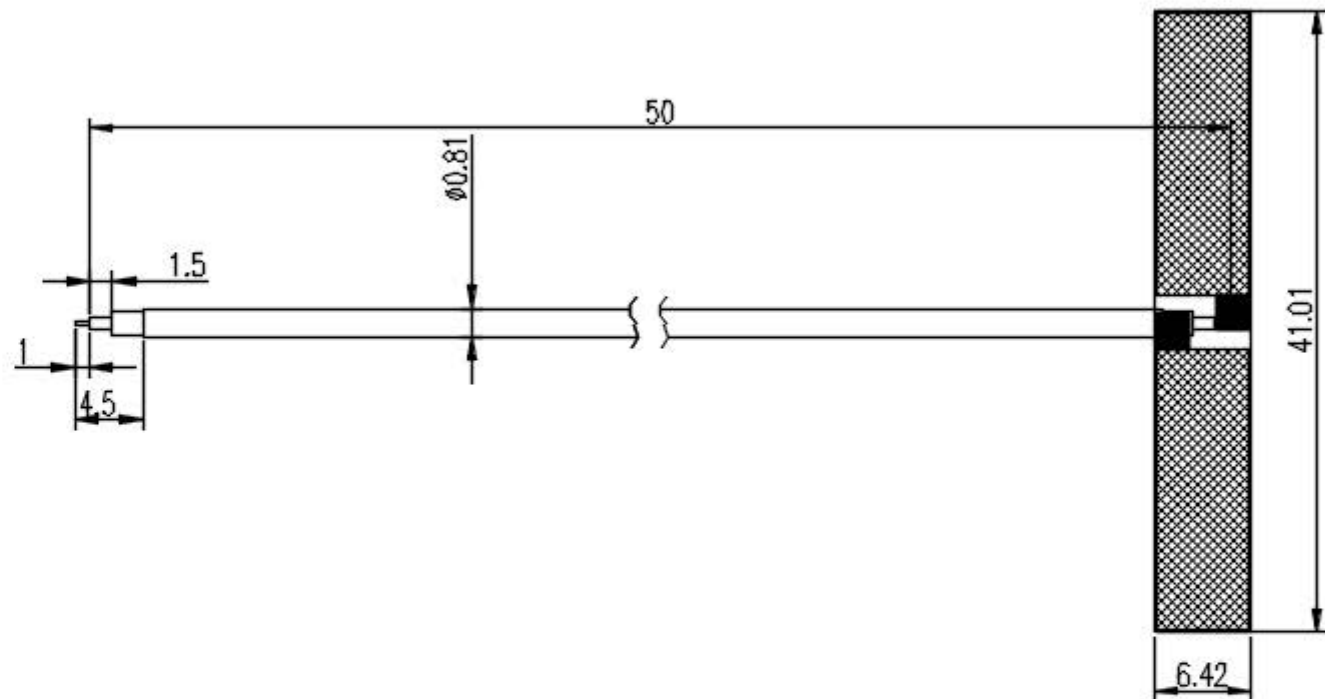
Test Frequency: 2400~2500MHz

4. Test Environment:

Room temperature : 22°C Humidity: 31%

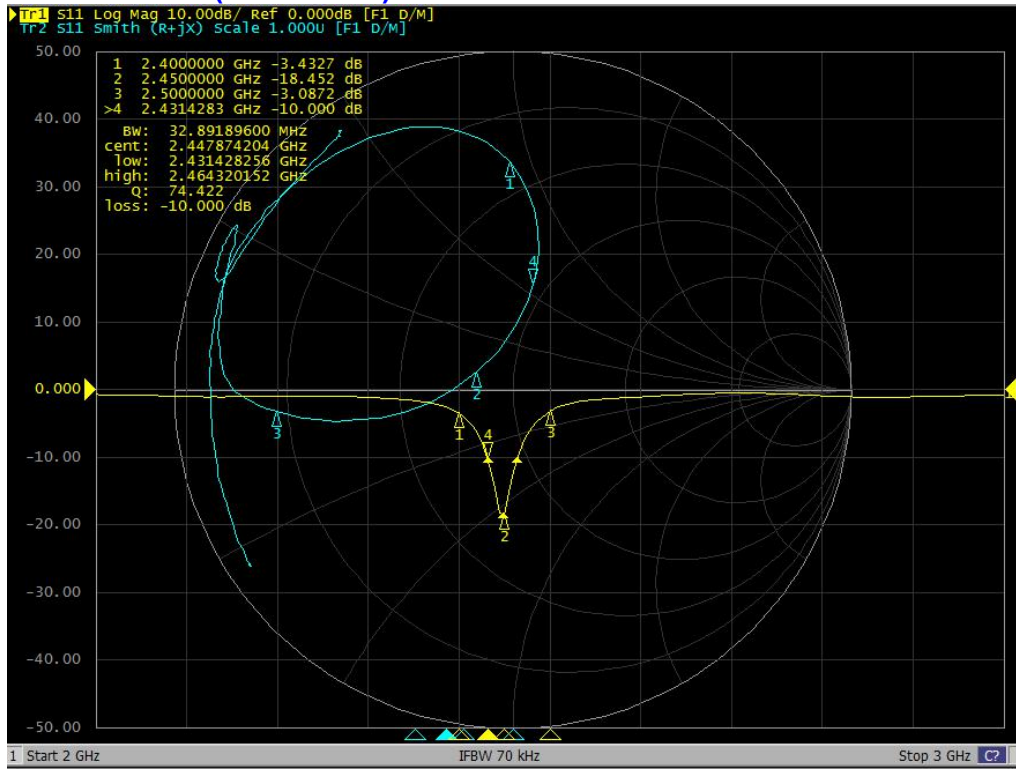
5. Test Schematic Drawing of Setting:



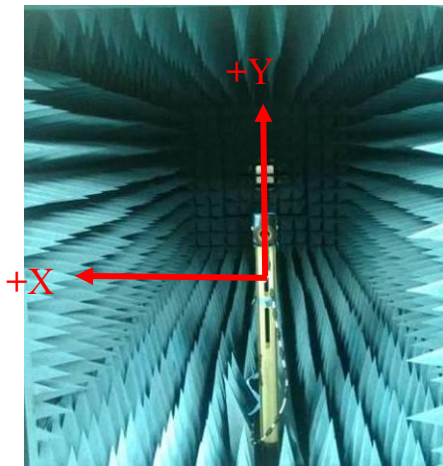


## 6. Test Data

### (Cirocomm) S11 Return Loss Measurement



### Coordinate

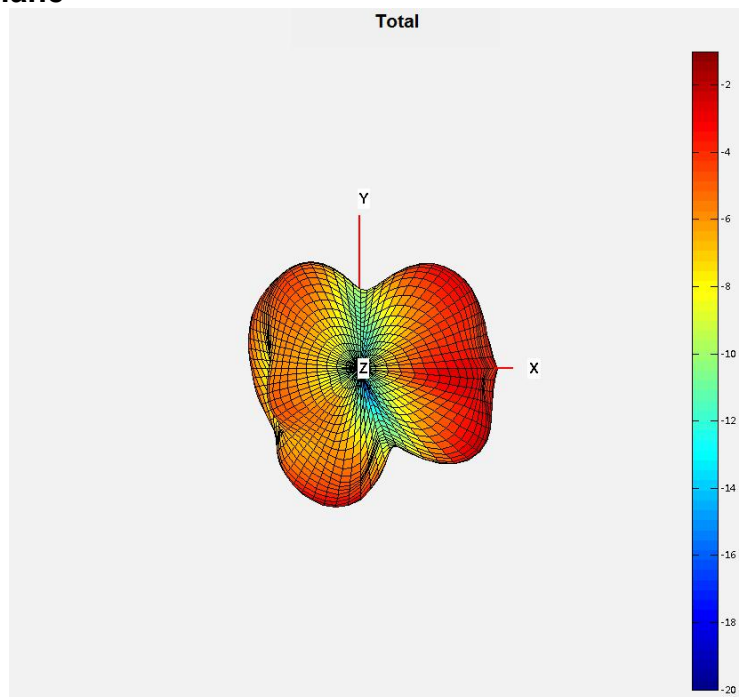


Chamber coordinate

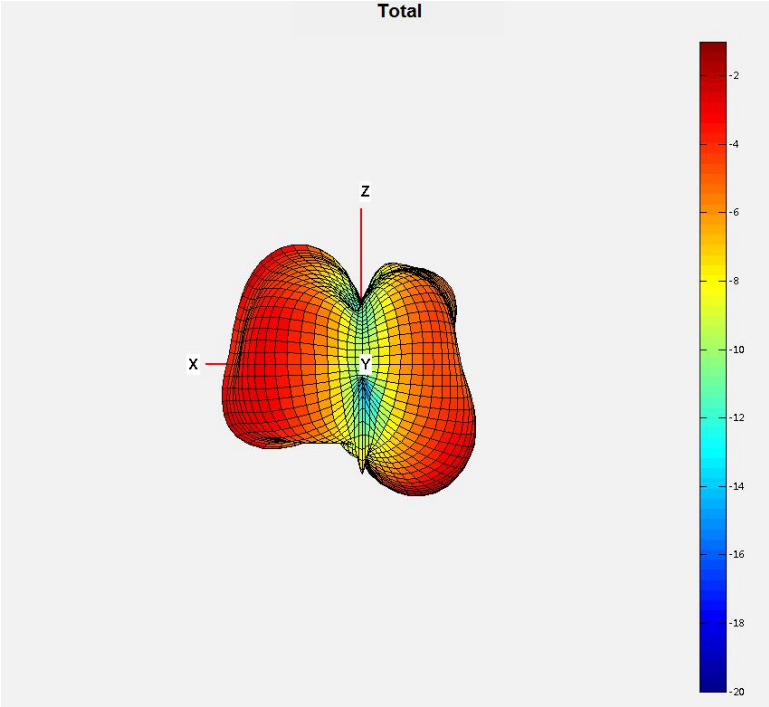
### Passive Performance:

Frequency	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2.4GHz	-9.36	11.59	-5.78
2.41GHz	-8.46	14.26	-4.89
2.42GHz	-7.34	18.45	-3.61
2.43GHz	-6.07	24.72	-2.41
2.44GHz	-5.78	26.42	-2.05
2.45GHz	-5.41	28.77	-1.56
2.46GHz	-5.69	26.98	-1.99
2.47GHz	-6.23	23.82	-2.27
2.48GHz	-6.99	20	-3.26
2.49GHz	-7.64	17.22	-3.61
2.5GHz	-8.4	14.45	-4.48

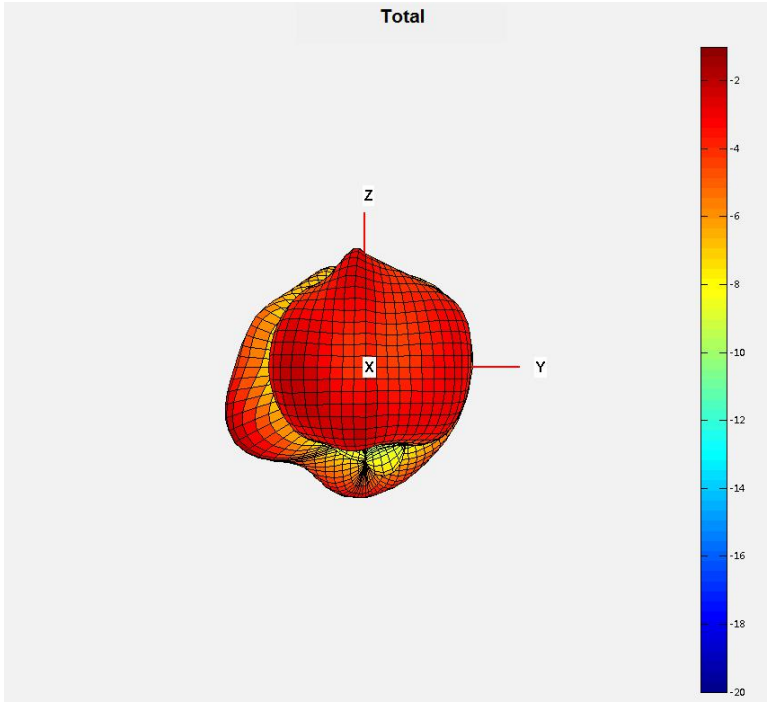
### Radiation Pattern 2450MHz X-Y plane



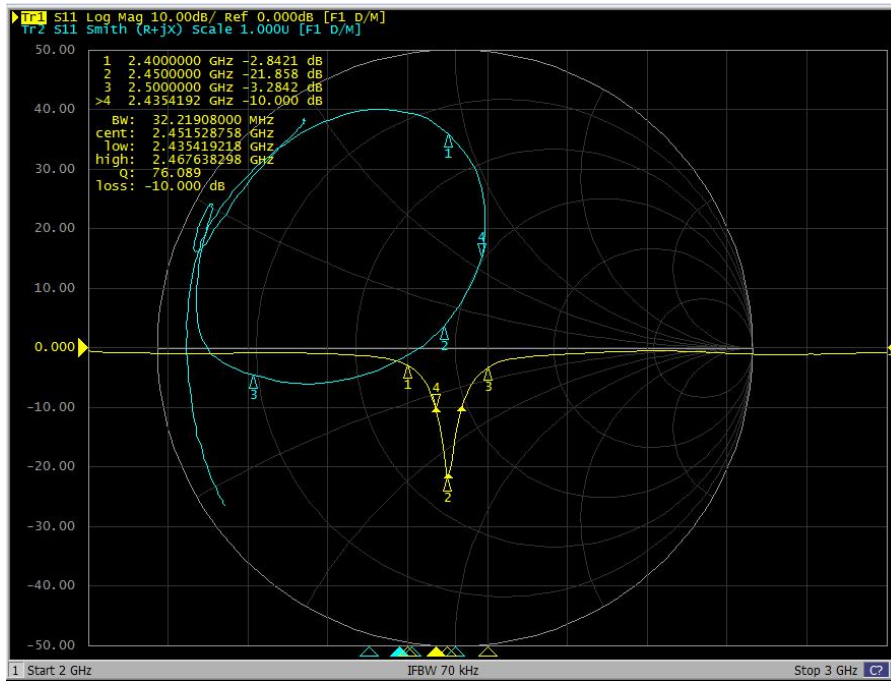
2450MHz X-Z plane



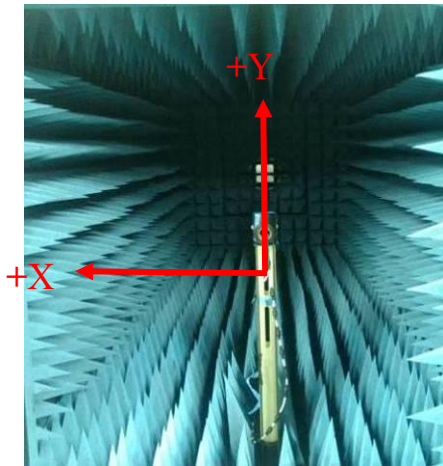
2450MHz Y-Z plane



## S11 Return Loss Measurement



## Coordinate

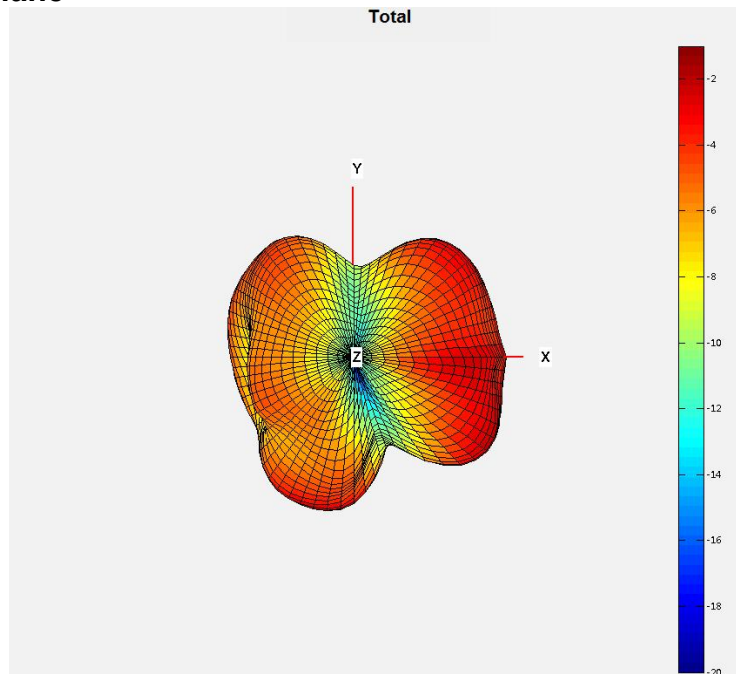


Chamber coordinate

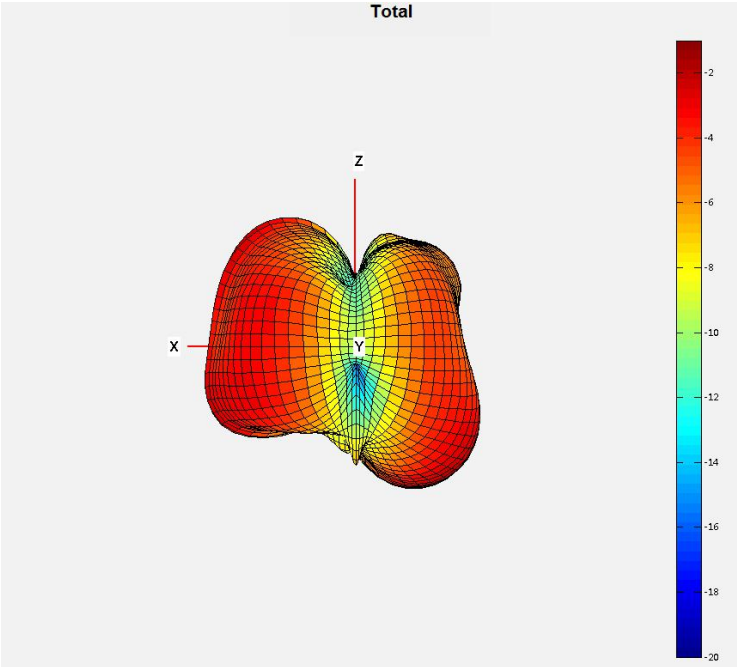
## Passive Performance:

Frequency	Efficiency (dB)	Efficiency (%)	Gain (dBi)
2.4GHz	-9.3	11.75	-5.7
2.41GHz	-8.39	14.49	-4.96
2.42GHz	-7.29	18.66	-3.55
2.43GHz	-6	25.12	-2.29
2.44GHz	-5.71	26.85	-2.04
2.45GHz	-5.33	29.31	-1.51
2.46GHz	-5.64	27.29	-1.93
2.47GHz	-6.19	24.04	-2.29
2.48GHz	-6.96	20.14	-3.24
2.49GHz	-7.55	17.58	-3.52
2.5GHz	-8.4	14.45	-4.35

## Radiation Pattern 2450MHz X-Y plane



2450MHz X-Z plane



2450MHz Y-Z plane

