
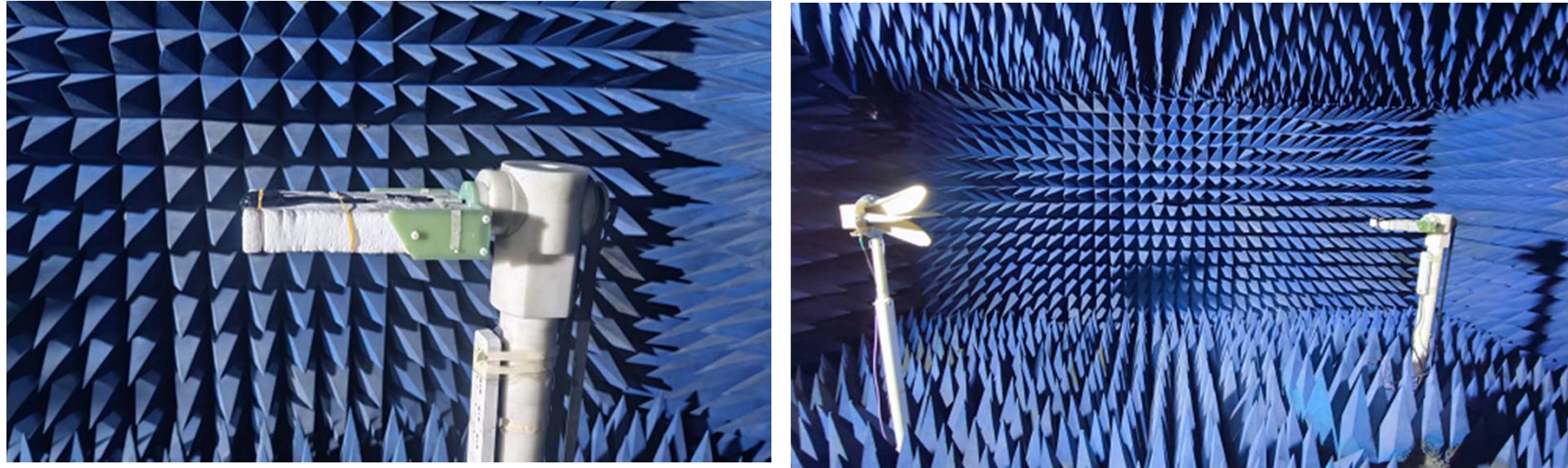


Project Name	DF55-G4CM
Frequency Range	2400-2500MHz
Revision	Rev01
Report Date	2022/8/30
Specification	WIFI+BT
EUT Picture	

Manufacturer: Shenzhen Goodboy Technology Co., Ltd.

## Test equipment

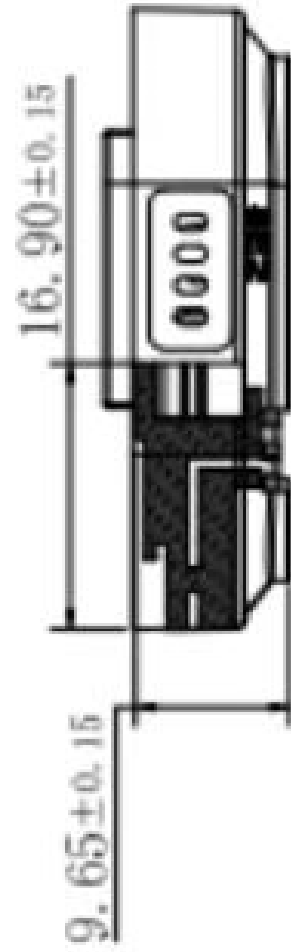
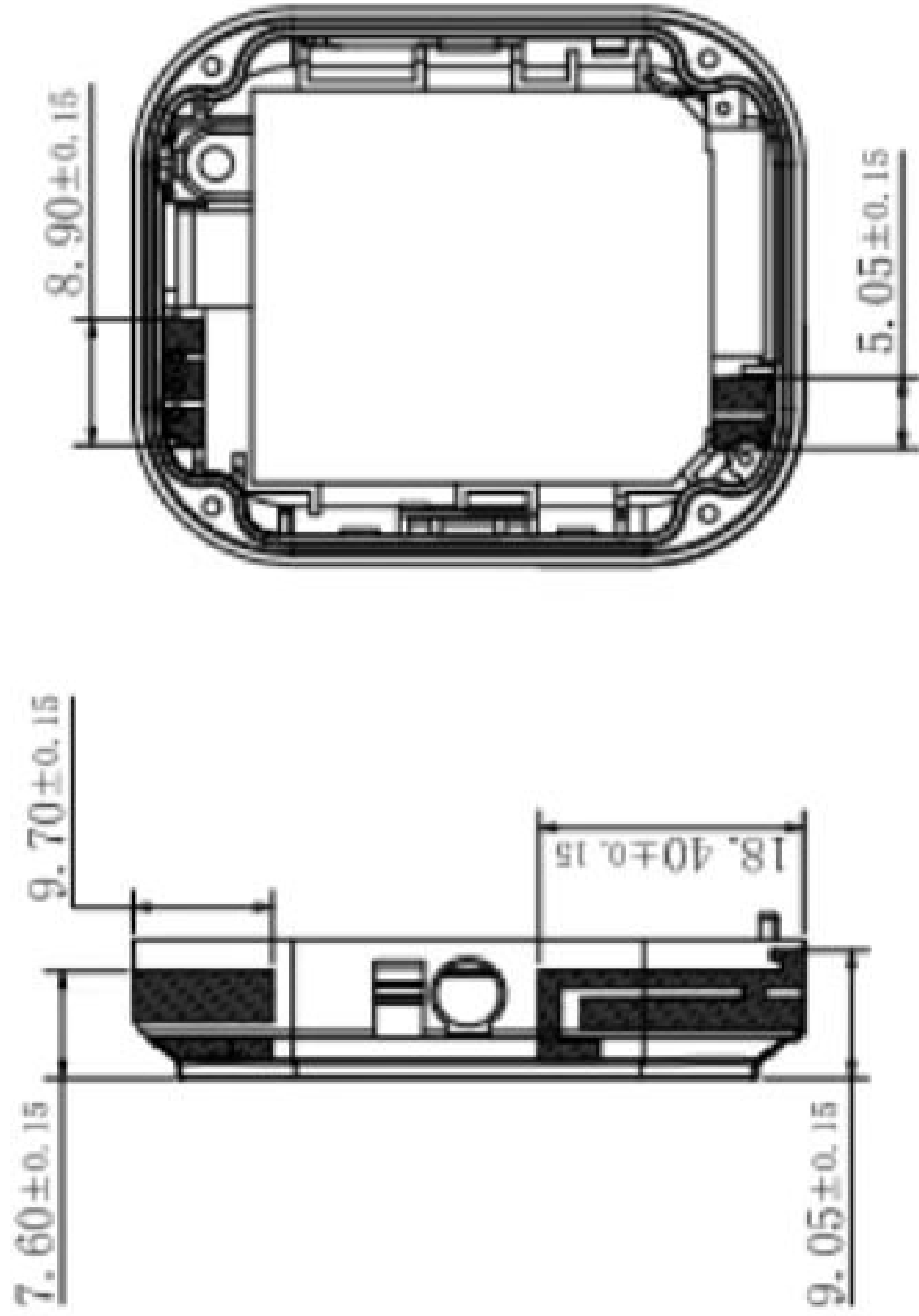
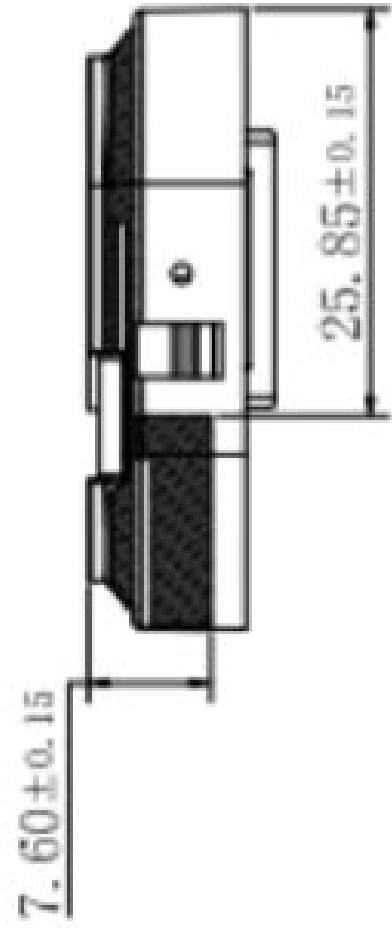


Antenna measurements such as VSWR were measured with an Agilent E5071C vector network analyzer. Radiation patterns were measured with a CMT Planar 804/1 vector network analyzer in a Howland Company 3100 chamber equivalent. Phase center is nine inches above the Phi positioner.

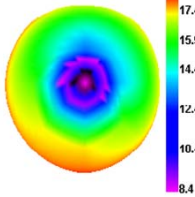
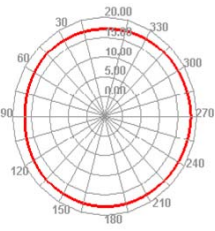
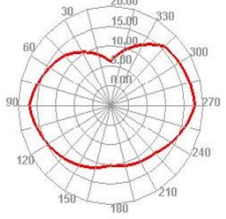
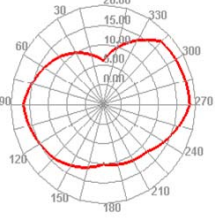
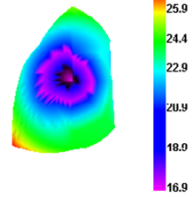
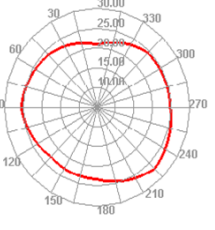
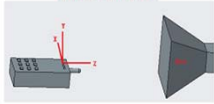
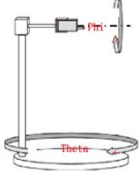
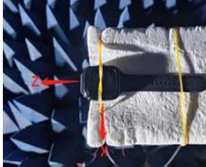
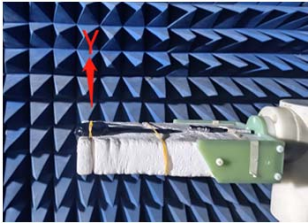
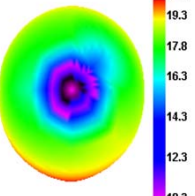
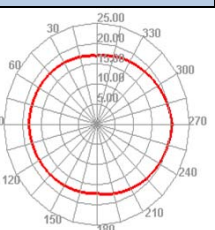
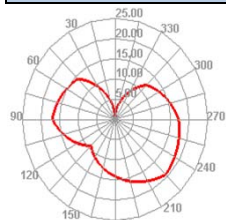
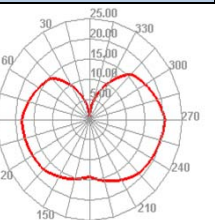
Flat surface measurements were done with the antenna centered on a 1.5 mm-thick plate of polycarbonate.

Curved surface measurements were taken by placing the antenna on the inside and outside of different diameter PVC tubing.

# Size



Test setup and Test picture

2.4G-2.5G		Note
<div><div>3D</div><div></div><div>H</div><div></div></div>		(H/E1/E2)
<div><div>E1</div><div></div><div>E2</div><div></div></div>		2D
<div><div>3D</div><div></div><div>H</div><div></div></div>		<div><div>E1: XZ平面 PHI=0 E2: YZ平面 PHI=90 H: XY平面 Theta=90</div></div> <div></div> <div></div> <div></div>
<div><div>3D</div><div></div><div>H</div><div></div></div>		
<div><div>E1</div><div></div><div>E2</div><div></div></div>		

**Passive efficiency and gain:**

Frequency	Efficiency		Peak Gain
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	24.94	-6.03	-0.12
2410	25.1	-6	-0.17
2420	25.38	-5.95	-0.14
2430	25.87	-5.87	0.00
2440	24.54	-6.1	-0.31
2450	20.73	-6.83	-1.07
2460	23.47	-6.29	-0.57
2470	20.71	-6.84	-1.1
2480	18.78	-7.26	-1.56
2490	17.67	-7.53	-1.84
2500	17.52	-7.57	-1.86

**VSWR**