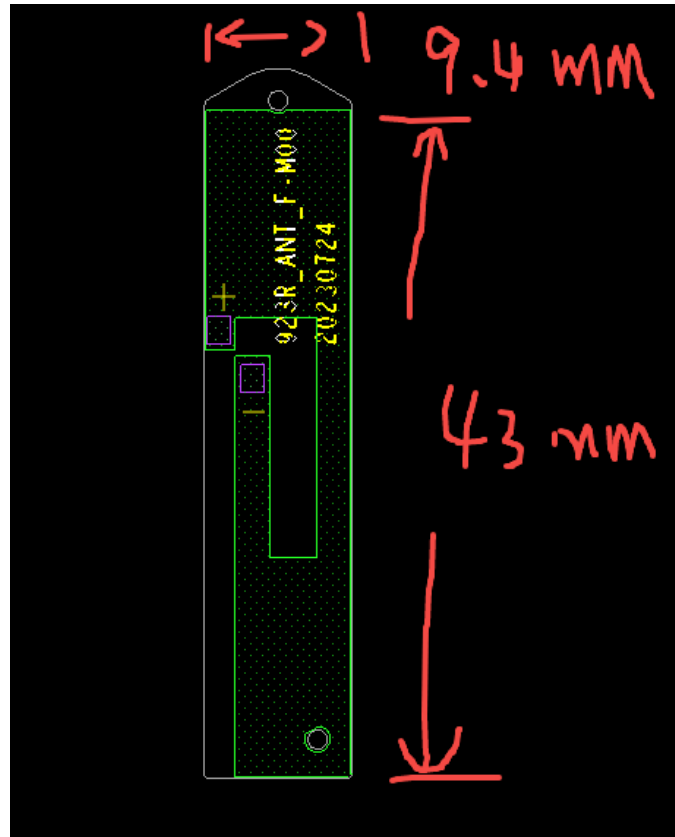


antenna specification

Description	
Project Name	R9
Operation Band	Bluetooth
Frequency	2400MHz-2500MHz
Gain	7.25dBi
Antenna Type	Internal antenna with PCB
Testing Equipment	
VNA	E5071C
Chamber	Guangping Chamber system
Time	2023-9-14

1 Antenna patern



2 Passive data

2.1 S11

Fre(MHz)	2400	2450	2500
Result(dB)	-13	-25	-16

2.2 Efficiency & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	77.73	-1.09	7.2
2410	84.58	-0.73	7.25
2420	85.8	-0.66	7.18
2430	79.33	-1.01	6.69
2440	91.26	-0.4	7.1
2450	78.43	-1.06	6.12
2460	87.73	-0.57	6.64
2470	70.88	-1.49	5.72
2480	80.8	-0.93	6.27
2490	68.36	-1.65	5.54
2500	76.03	-1.19	5.9

2.3 Radiation Pattern

