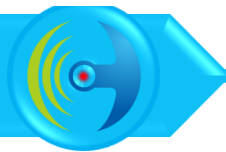


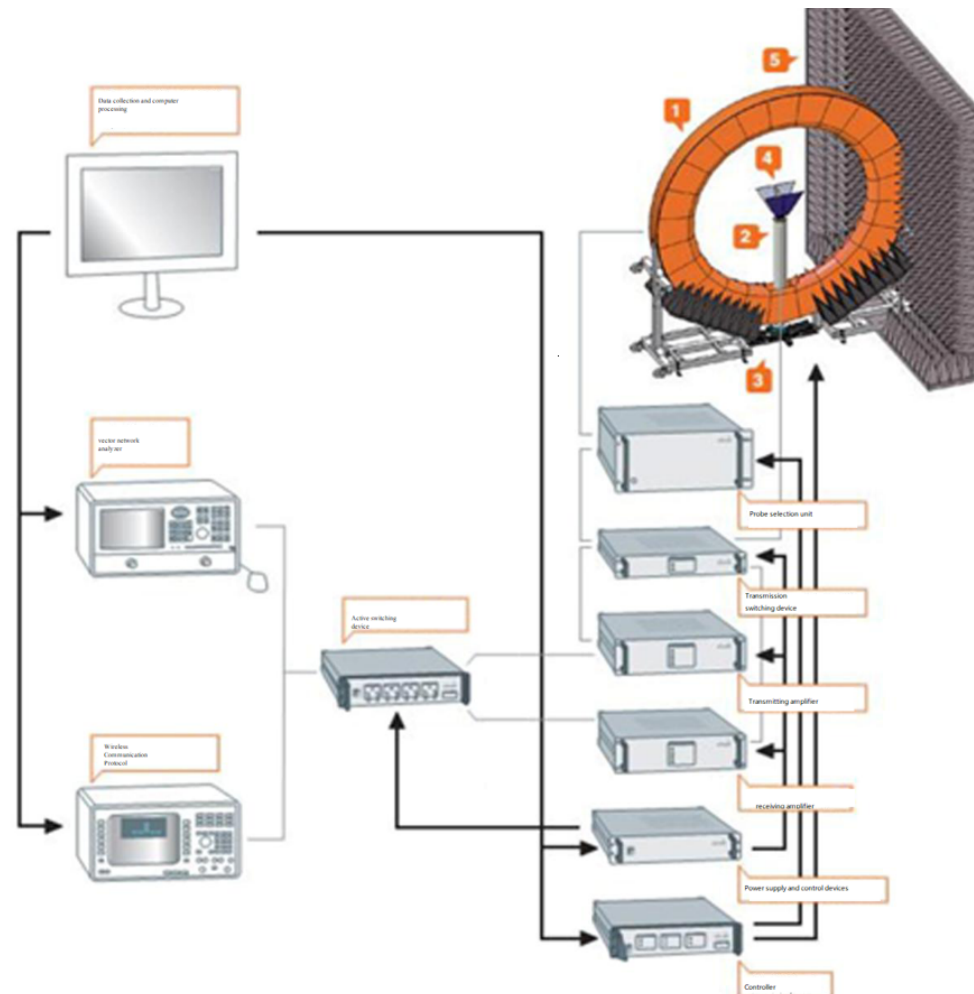
Antenna test report

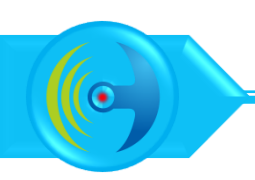
B223090

2023-11-2

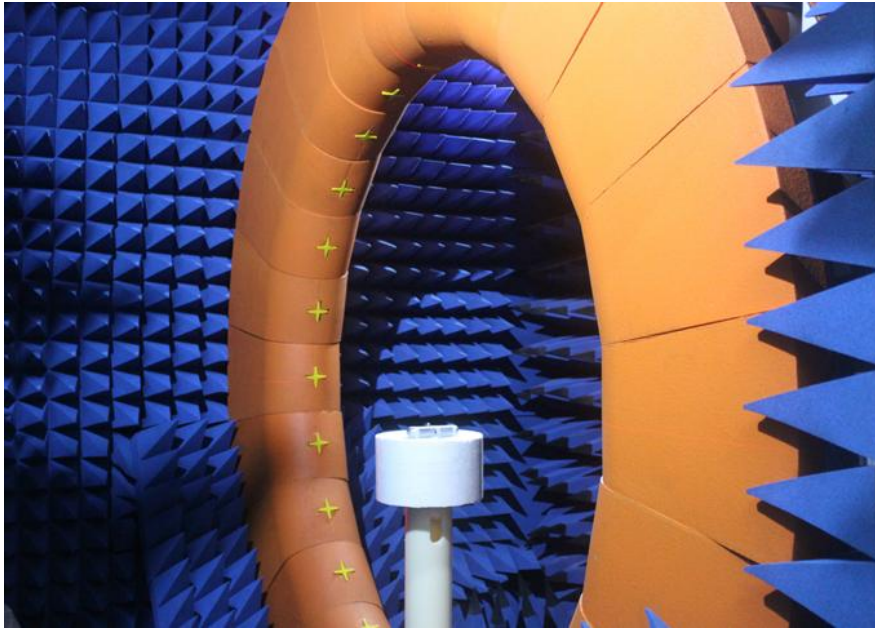


Test equipment and test environment

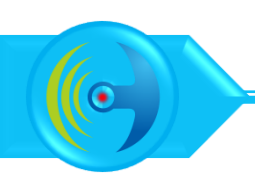




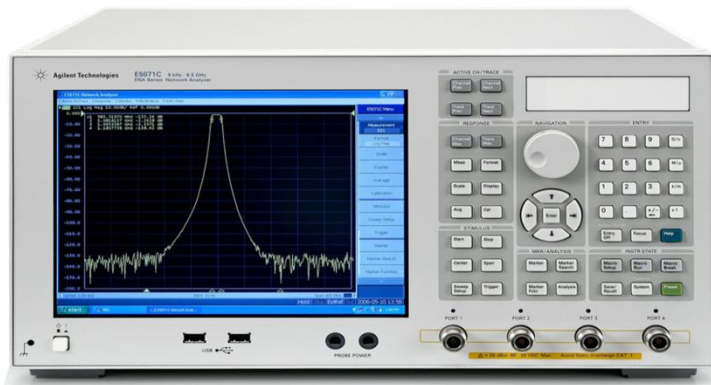
Test equipment



0.4GHz -6GHz



Test equipment



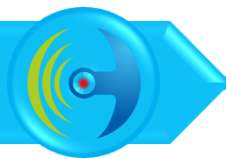
Agilent E5071C

- 300 kHz -8.5GHz

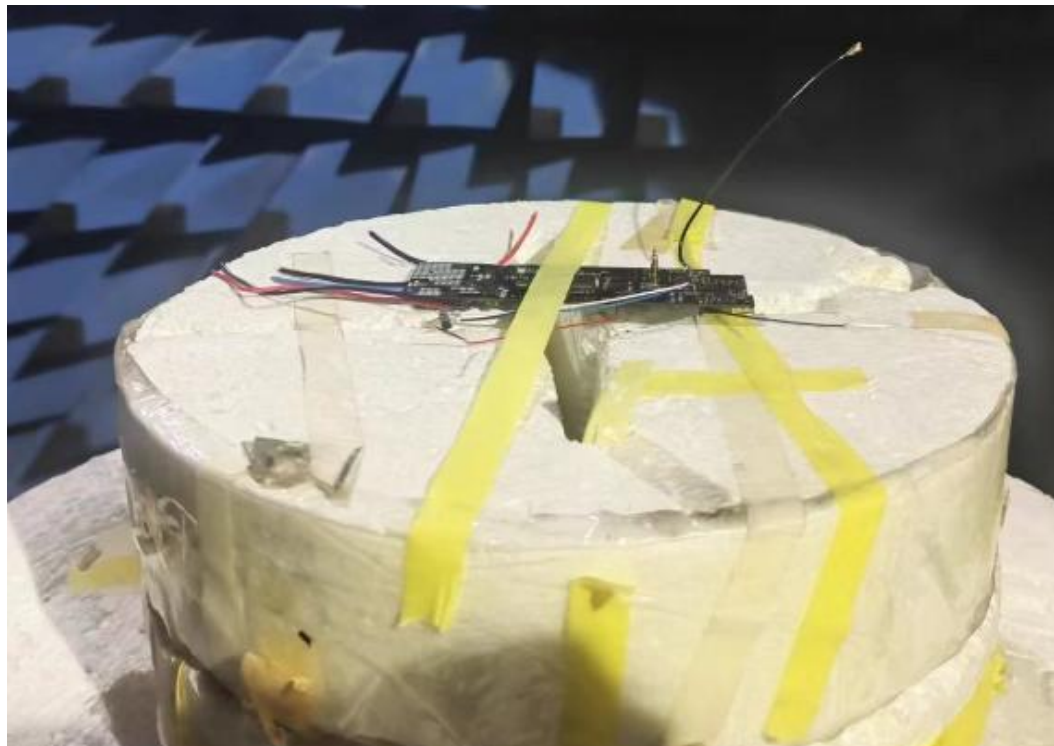


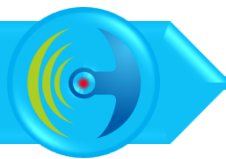
R&S CMW500

- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT



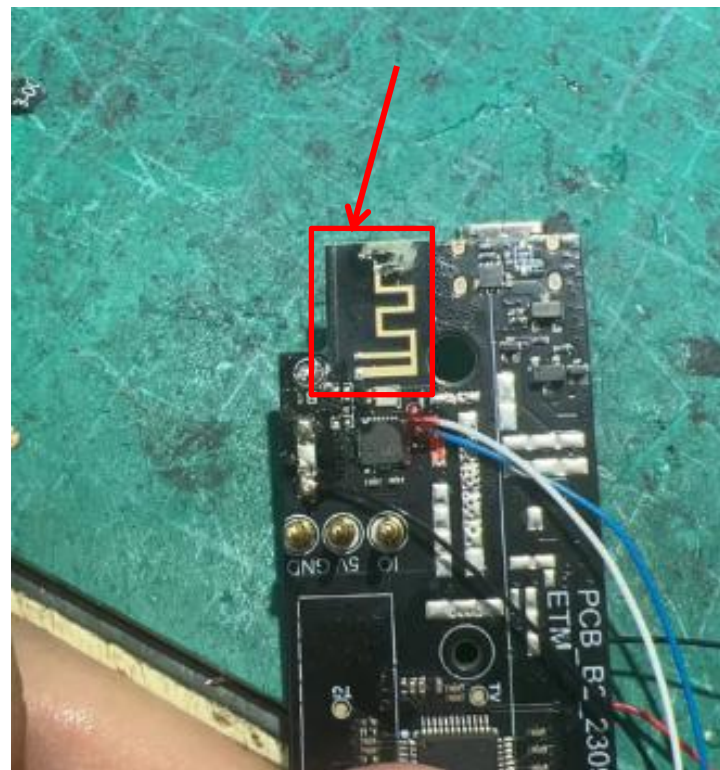
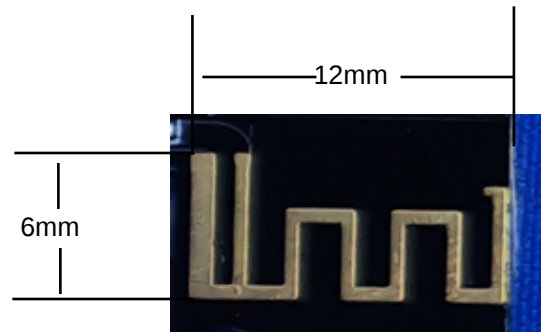
Test photos

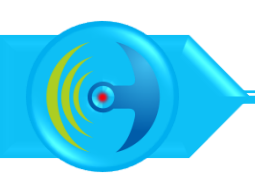




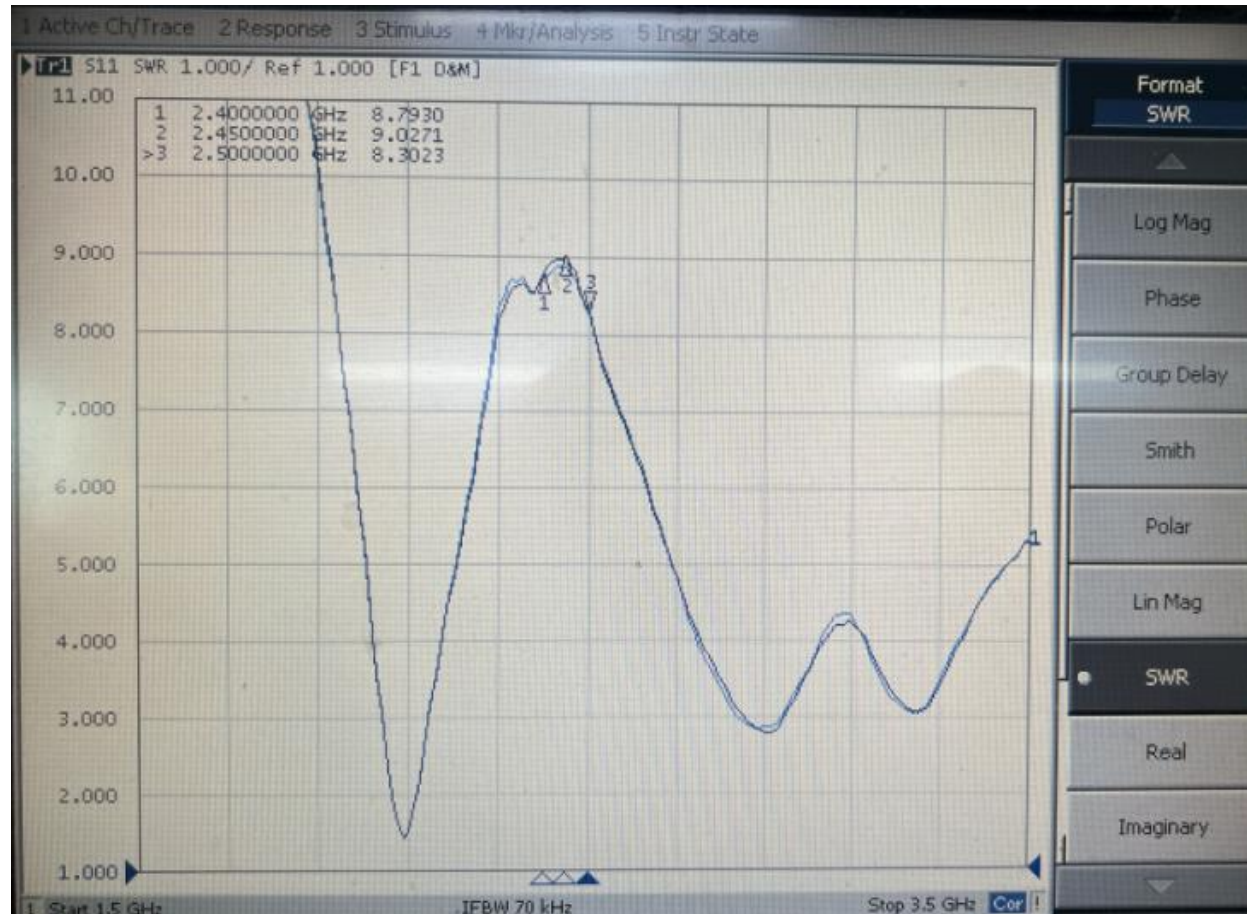
Passive antenna data

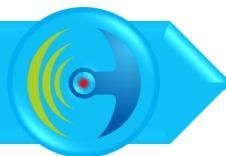
Antenna Type: PCB



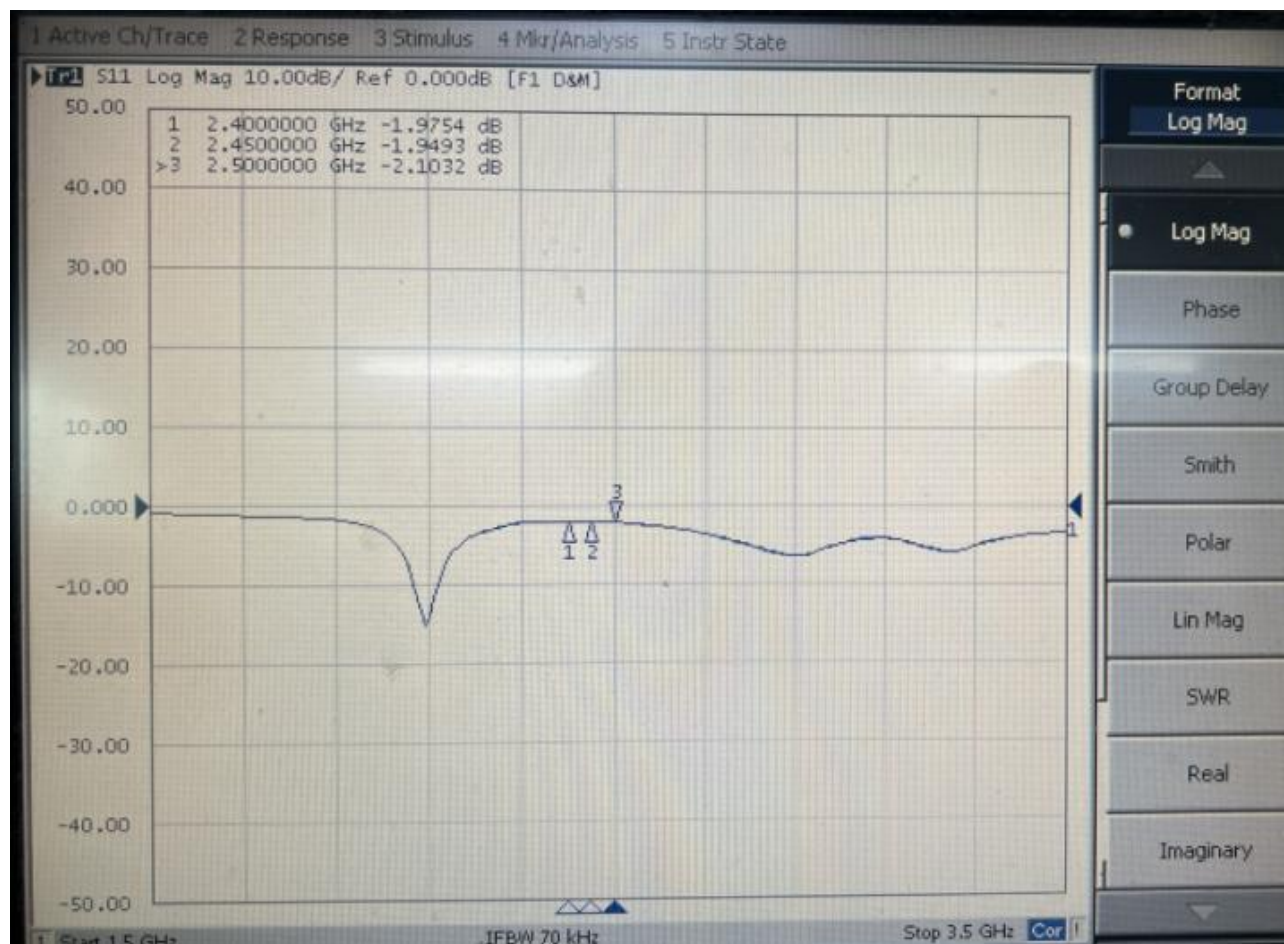


Antenna SWR





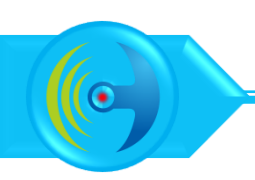
Antenna Return loss



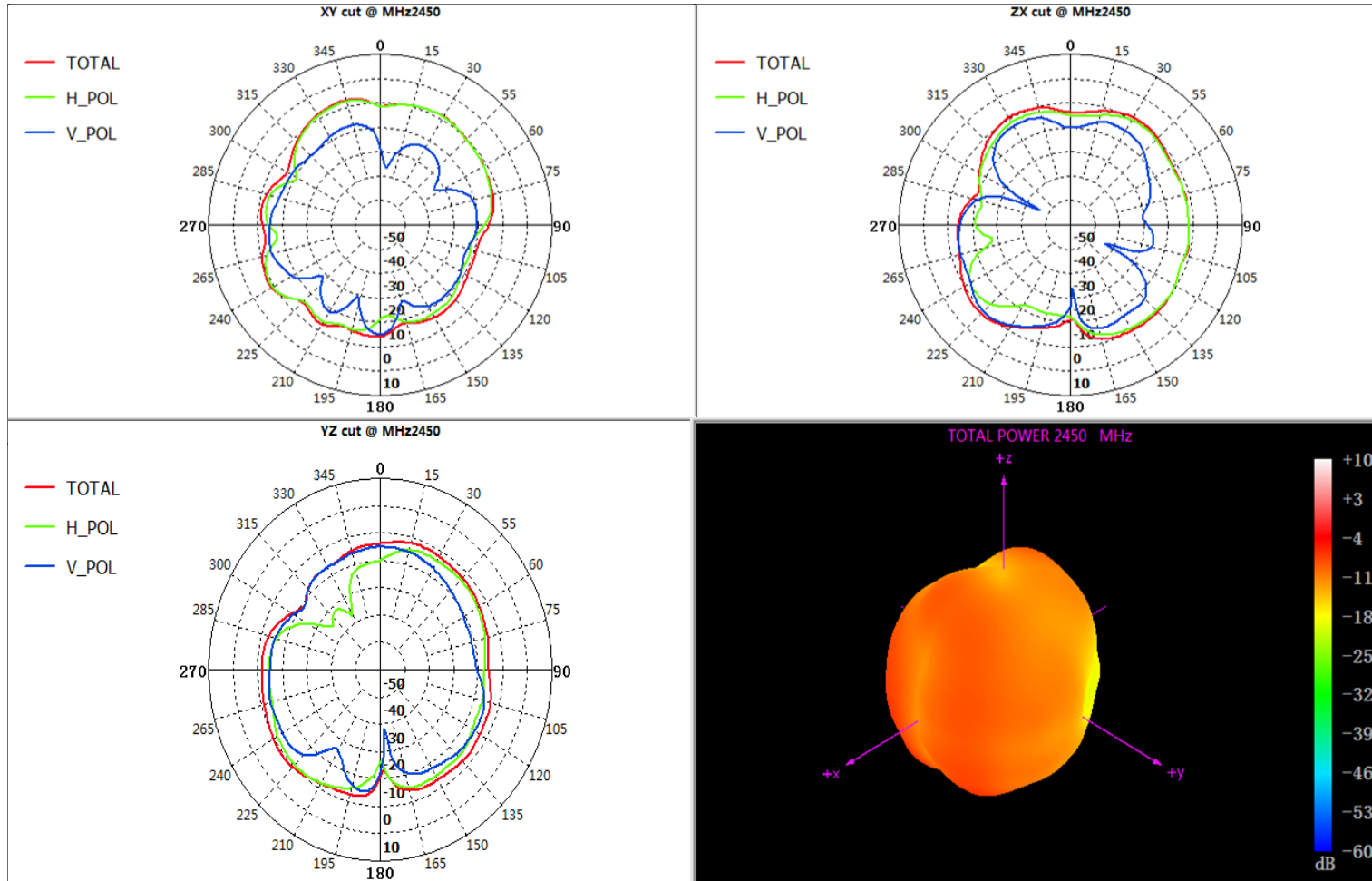


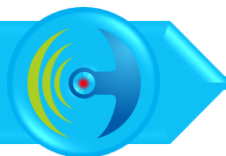
Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400 MHz	9.03	-5.1
2410 MHz	8.37	-5.04
2420 MHz	8.38	-5.17
2430 MHz	8.12	-5.33
2440 MHz	8.19	-4.87
2450 MHz	8.04	-5.46
2460 MHz	7.65	-5.65
2470 MHz	7.56	-5.32
2480 MHz	7.33	-5.67
2490 MHz	7.42	-5.57
2500 MHz	7.63	-5.21

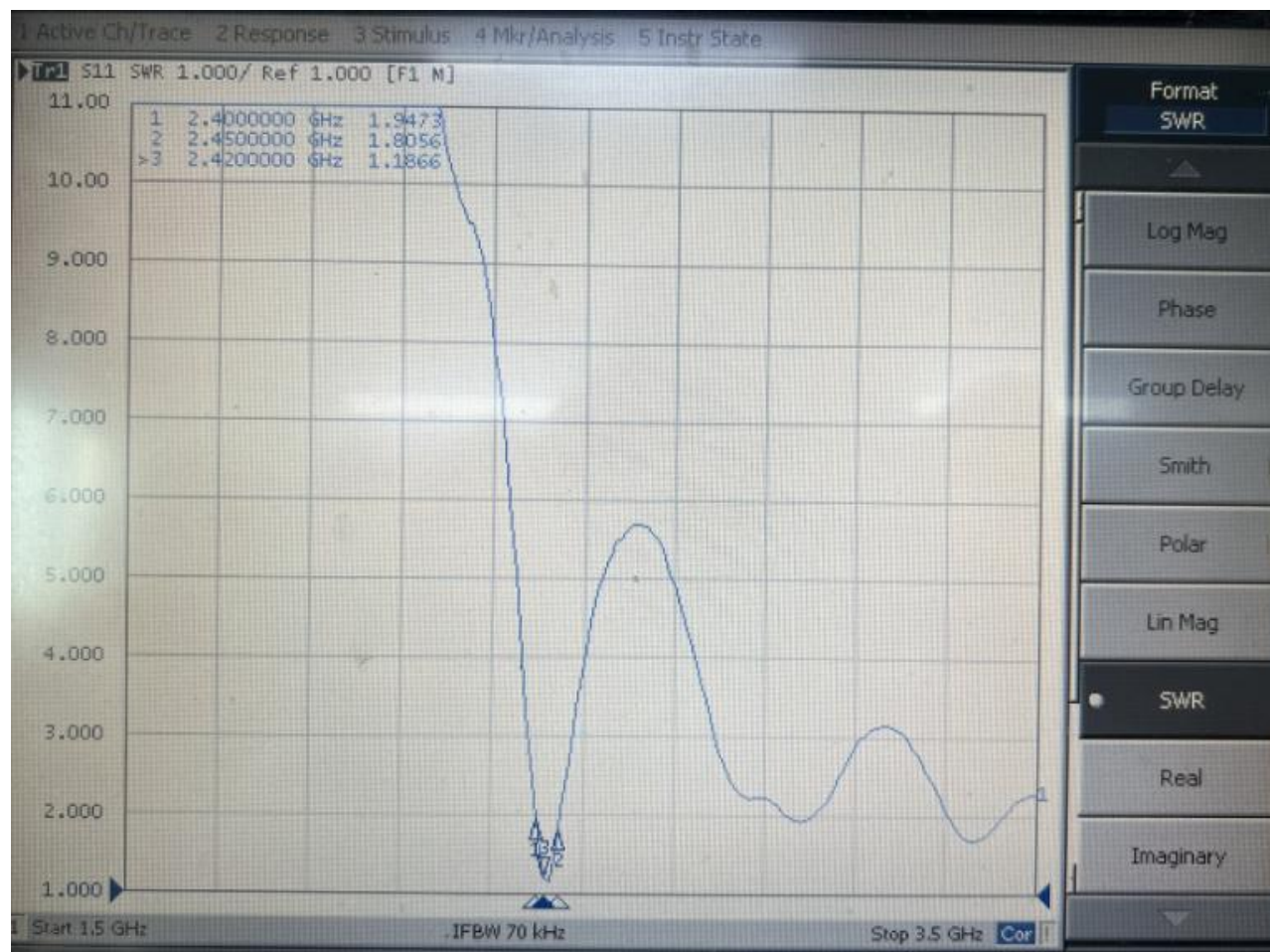


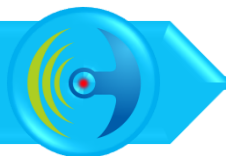
Antenna Radiation Pattern



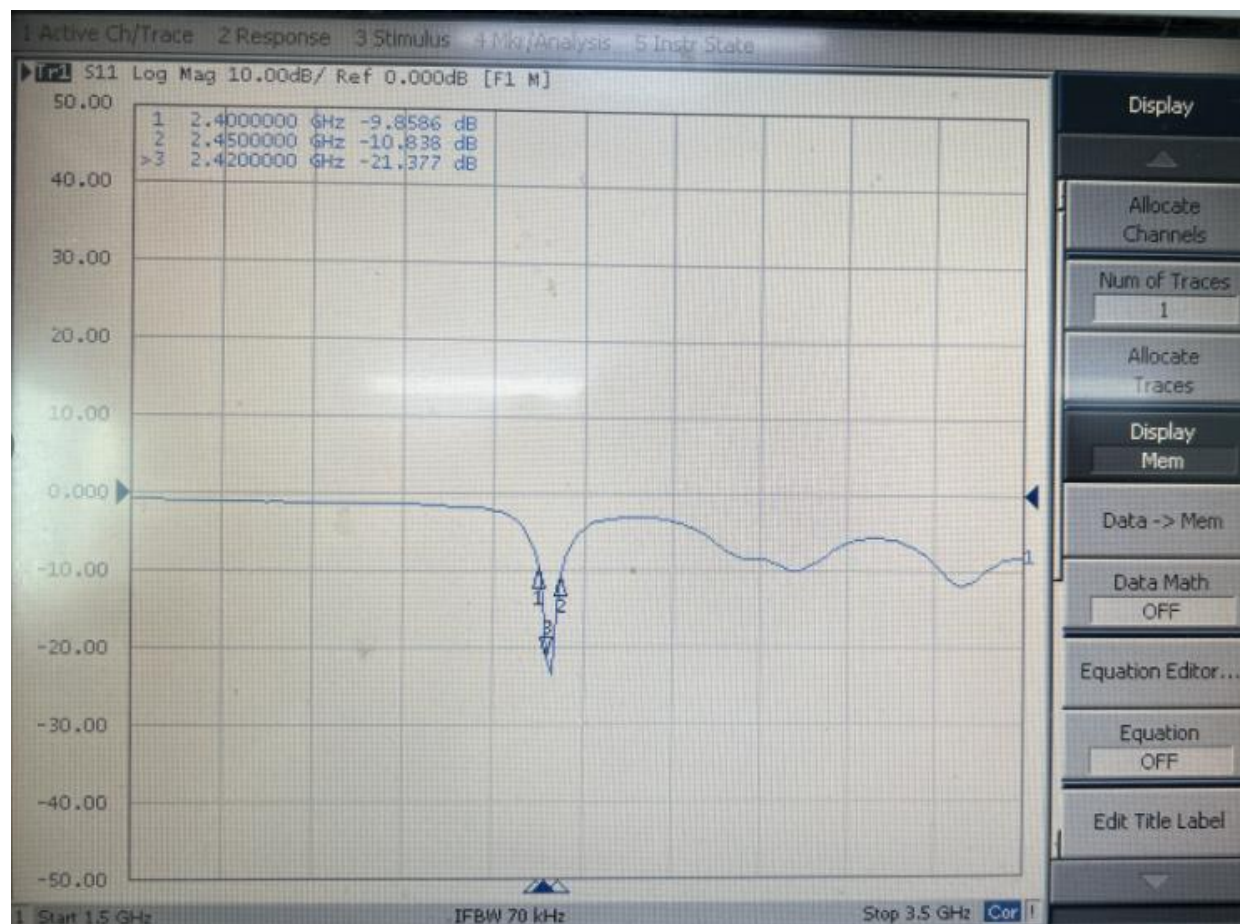


Antenna SWR





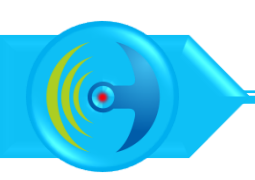
Antenna Return loss



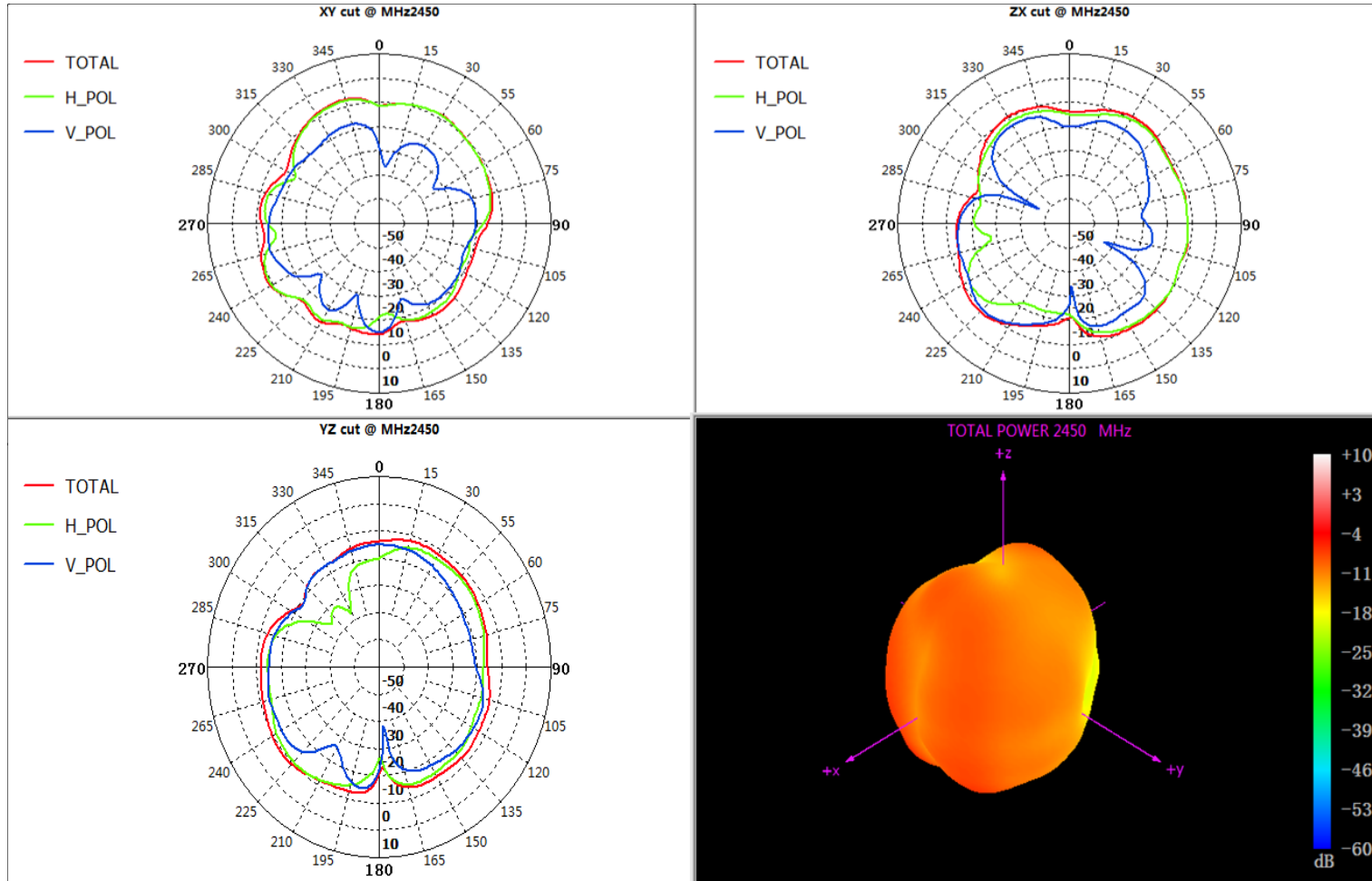


Antenna gain and efficiency

Freq(MHz)	Efficiency (%)	Gain(dBi)
2400 MHz	15.66	-6.72
2410 MHz	16.31	-5.74
2420 MHz	17.9	-4.54
2430 MHz	16.69	-3.71
2440 MHz	18.99	-3
2450 MHz	18.46	-2.55
2460 MHz	19.71	-2.38
2470 MHz	19.42	-2.52
2480 MHz	18.28	-2.86
2490 MHz	17.12	-2.95
2500 MHz	16.18	-2.96



Antenna Radiation Pattern



Thanks for your support !

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