



WLT'8016

Antenna specification

1..overview

This antenna specification describes the RF performance of the onboard antenna of WLT8016 module, ensuring that when connected to a 50 ohm source, the VSWR in the ISM band of 2.4 GHz ISM less than 3, the gain diagrams of the antenna in different directions, and the antenna efficiency and gain values in different frequency bands.

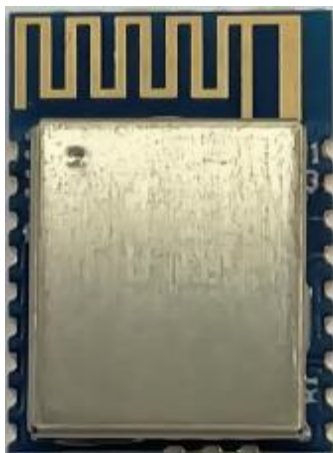
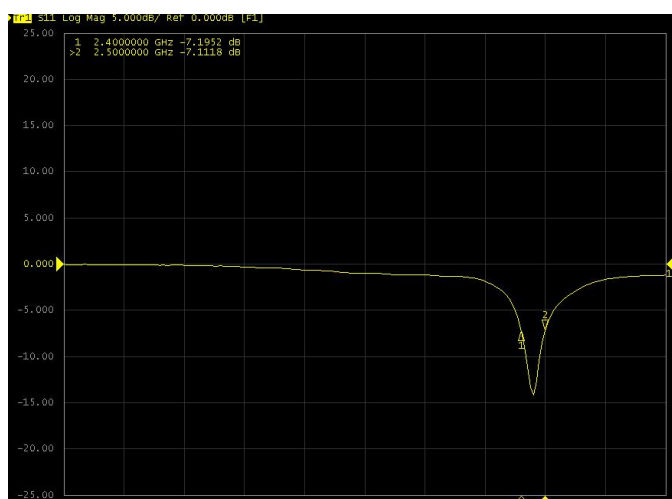
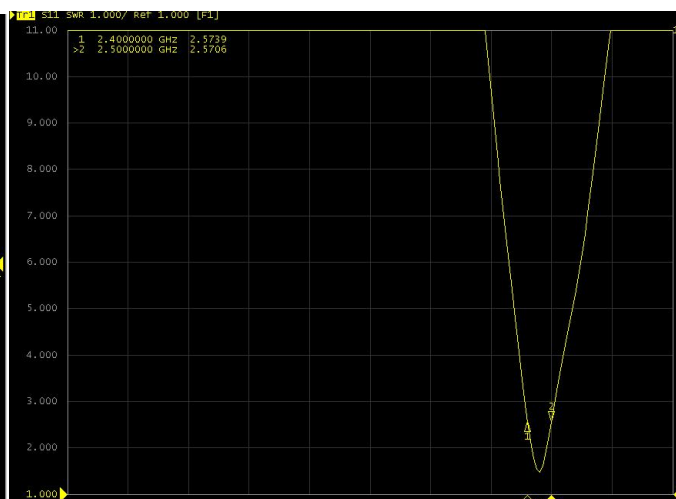


图1-1: WLT8016模块

2.Return loss、 VSWR



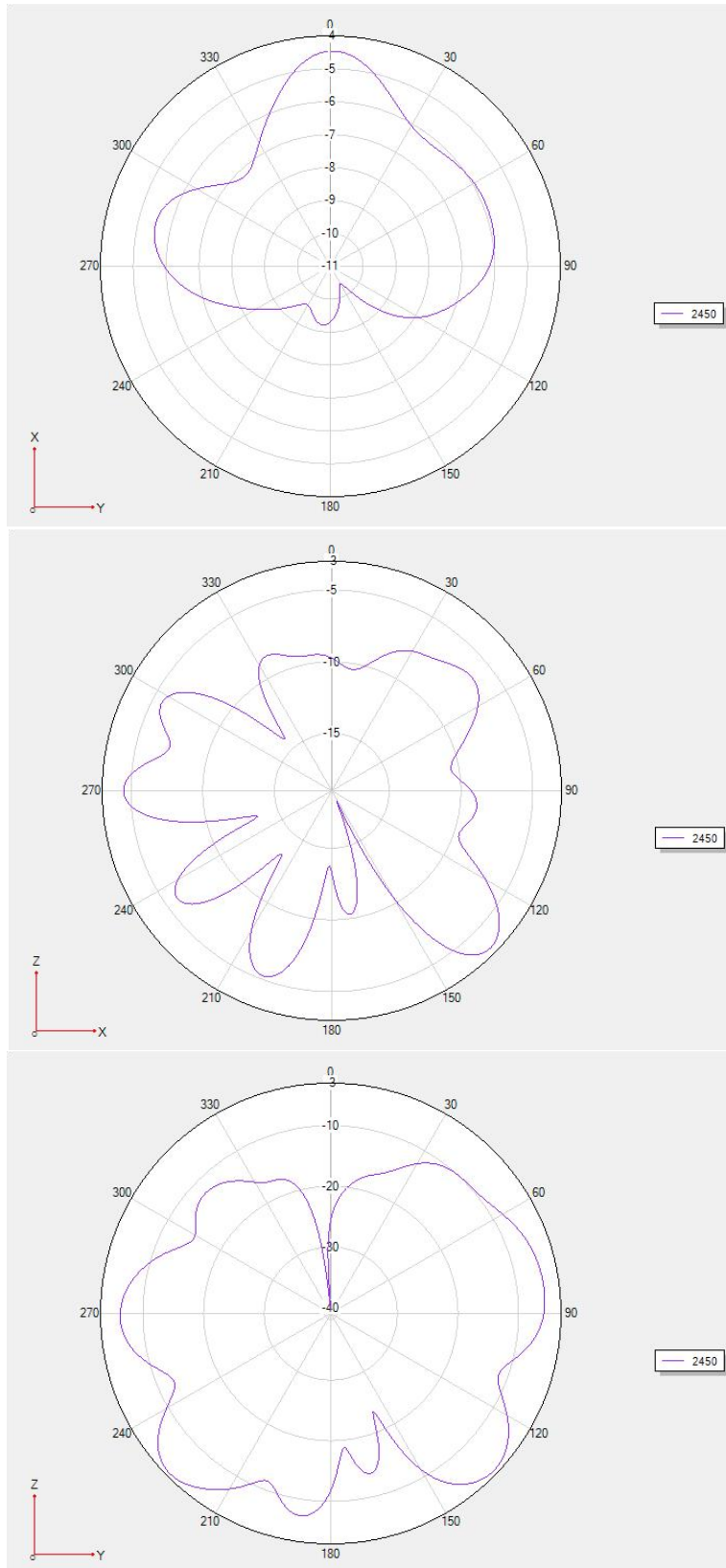
Return loss



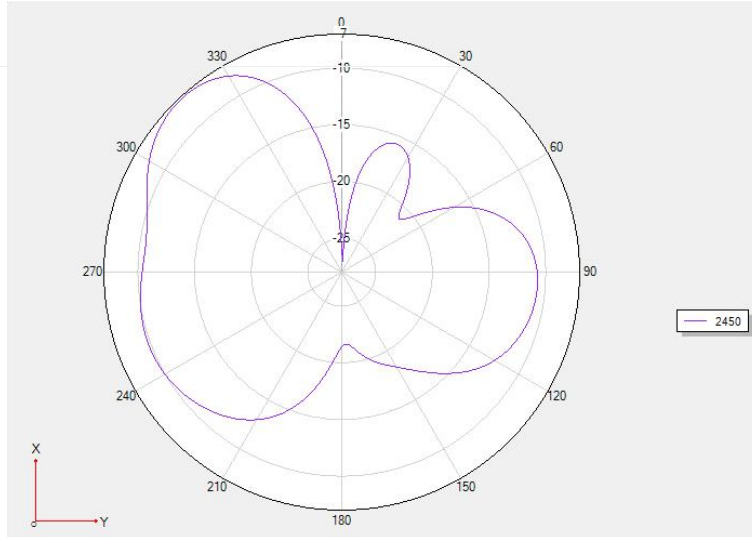
VSWR

3. Direction and gain diagram

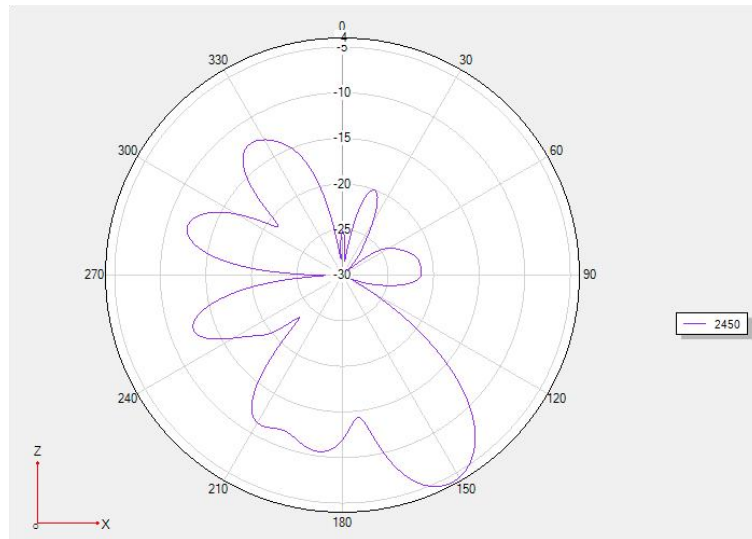
Etheta



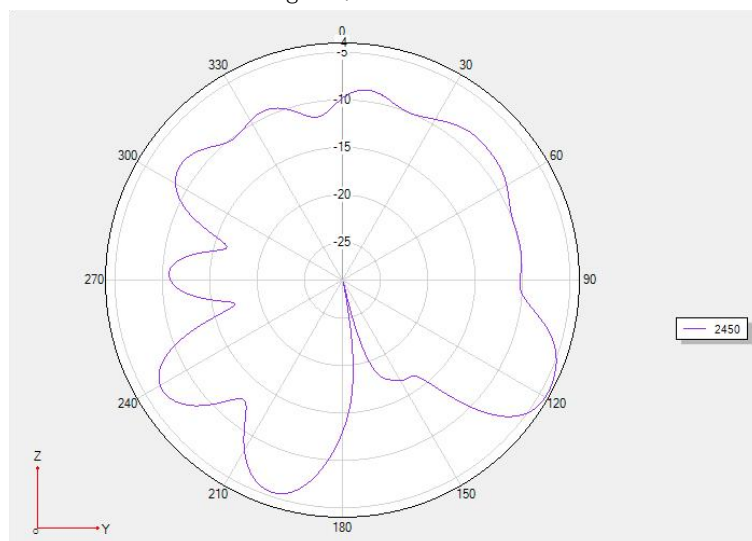
Ephi



gain: -4.2dBi



gain: -2.4dBi



gain: -2.9dBi

4. Antenna gain table

Frequency / MHz	Efficiency / dB	Efficiency / %	Gain/ dBi
2400	-7.97	15.96	-4.01
2405	-7.79	16.63	-3.89
2410	-7.68	17.06	-4
2415	-7.58	17.46	-3.44
2420	-7.56	17.54	-3.73
2425	-7.43	18.07	-3.39
2430	-7.23	18.92	-3.15
2435	-7.34	18.45	-3.58
2440	-7.27	18.75	-2.66
2445	-7.06	19.68	-2.82
2450	-7.16	19.23	-2.89
2455	-7.11	19.45	-2.46
2460	-7.18	19.14	-3.09
2465	-7.3	18.62	-2.67
2470	-7.11	19.45	-2.73
2475	-7.39	18.24	-3.27
2480	-7.56	17.54	-2.75
2485	-7.45	17.99	-2.98
2490	-7.69	17.02	-3.44
2495	-7.79	16.63	-3.4
2500	-7.9	16.22	-3.68