

SHENZHEN VLG WIRELESS TECHNOLOGY CO.,LTD

Antenna Test Report

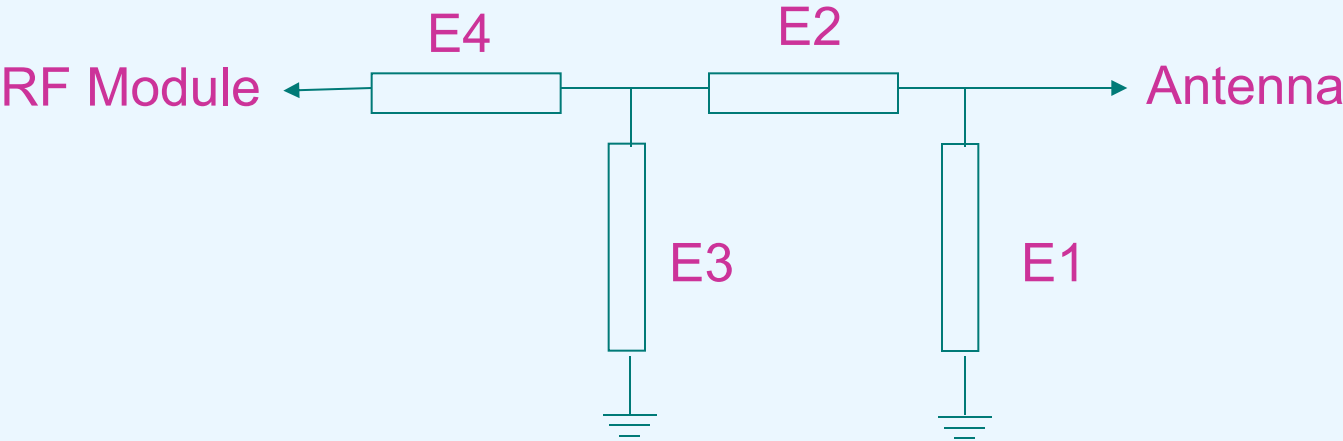
Project name :U45D TX

Date: 2025年12月11日

Machine Instructions

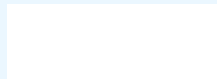
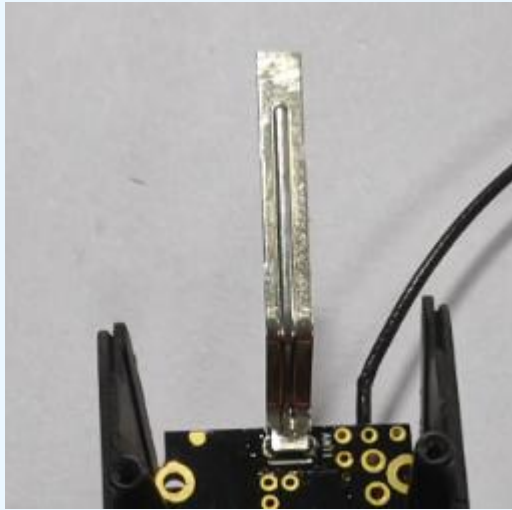
- ❖ Customer:
- ❖ Customer NO.: U45D
- ❖ Antenna frequency: WIFI 5720-5850MHZ

一、 Matching circuit:



Element	Value
E1(0402)	NA
E2(0402)	0Ω
E3(0402)	NA
E4(0402)	0Ω

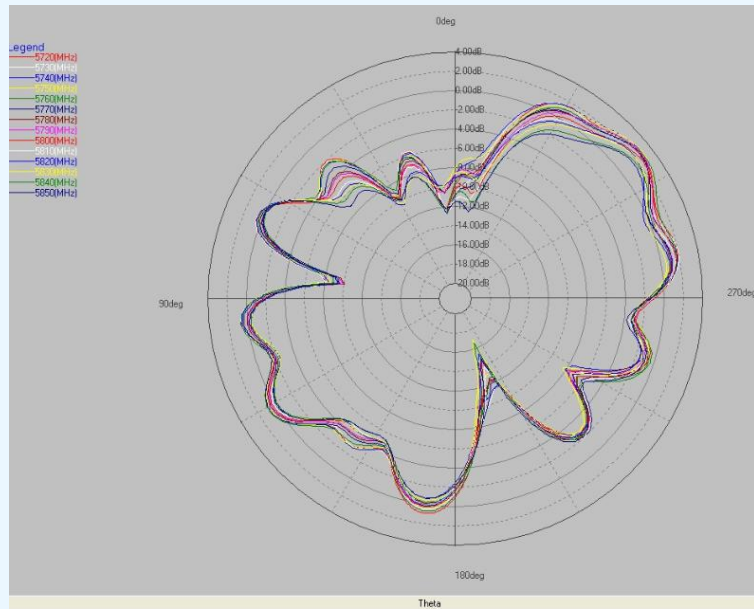
二、Antenna picture



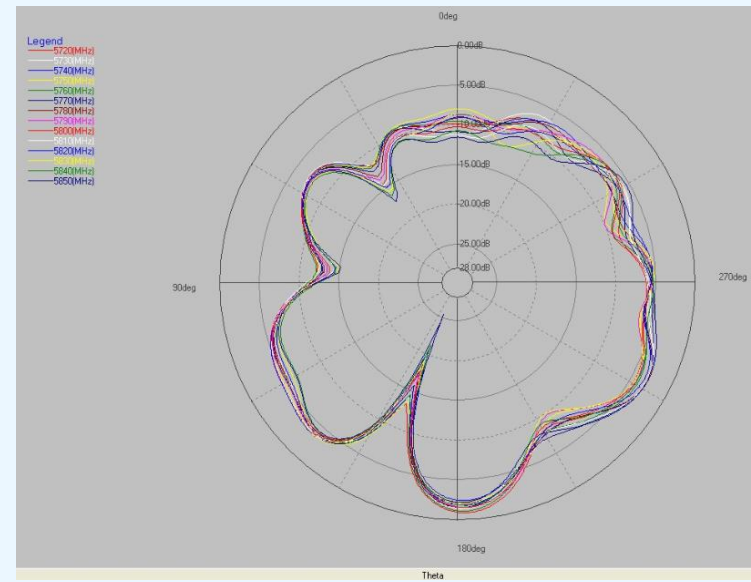
三、TX S11



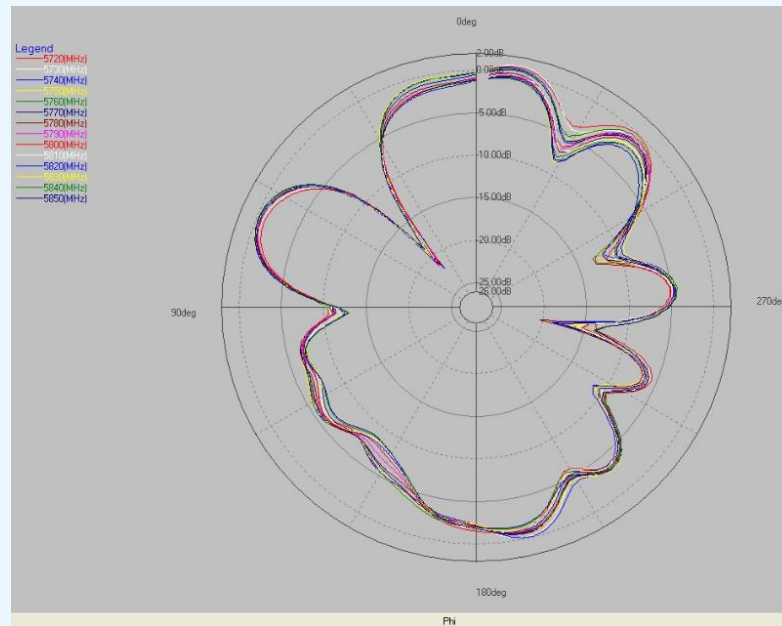
四、Radiation Pattern



$\Phi=0$



$\Phi=90$

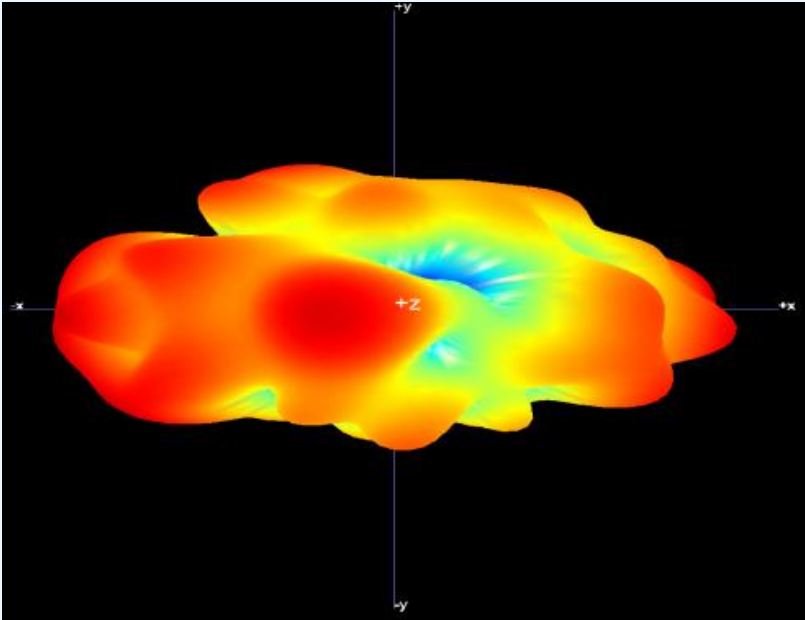
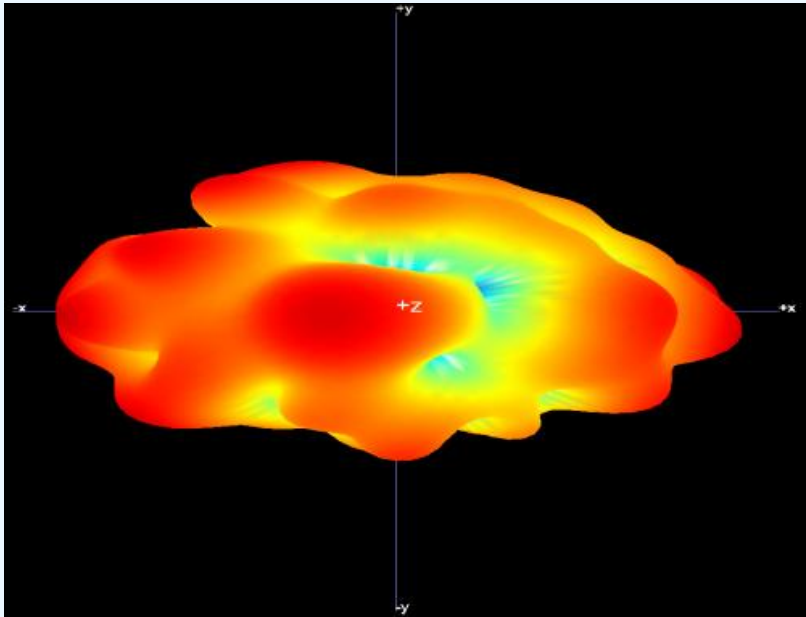


$\Theta=90$

五、 Antenna efficiency

Frequency (MHZ)	Efficiency (%)	Efficiency . dB	Peak_Gain . dBi
5720	41%	-3.88	3.08
5730	41%	-3.83	2.94
5740	41%	-3.87	3.16
5750	41%	-3.89	3.29
5760	41%	-3.92	2.95
5770	40%	-3.99	2.88
5780	40%	-3.97	2.98
5790	40%	-4.00	3.10
5800	39%	-4.13	2.71
5810	39%	-4.12	2.31
5820	38%	-4.23	2.32
5830	38%	-4.17	2.30
5840	38%	-4.20	2.10
5850	38%	-4.24	2.20

六、3D radiation pattern

Reference frequency point	5725	5845
	 A 3D surface plot of a radiation pattern at 5725. The plot shows a complex, multi-lobed structure with a color gradient from blue (low intensity) to red (high intensity). The pattern is centered around a point labeled '+Z'. The axes are labeled with '+x', '-x', '+y', and '-y'.	 A 3D surface plot of a radiation pattern at 5845. The plot shows a complex, multi-lobed structure with a color gradient from blue (low intensity) to red (high intensity). The pattern is centered around a point labeled '+Z'. The axes are labeled with '+x', '-x', '+y', and '-y'.

Thanks for your valuable comment!