

Antenna specification

KTC



Electrical Department
20250616

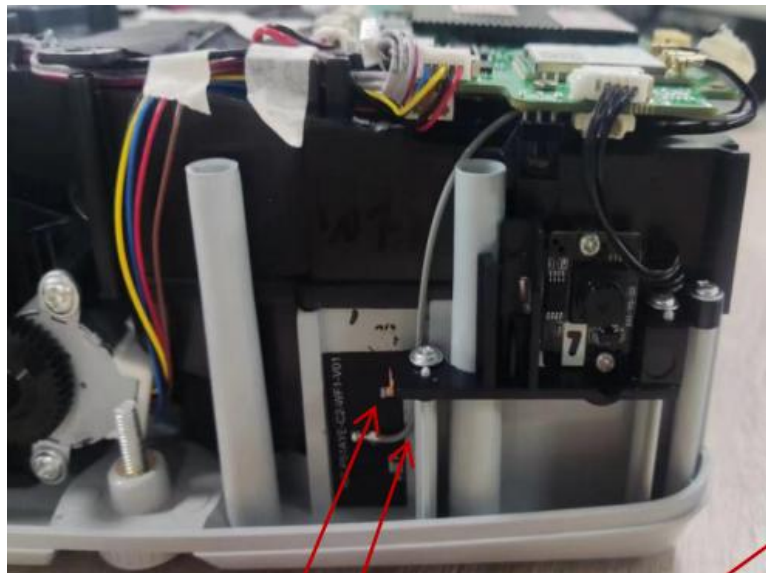
1

The overall machine environment and antenna

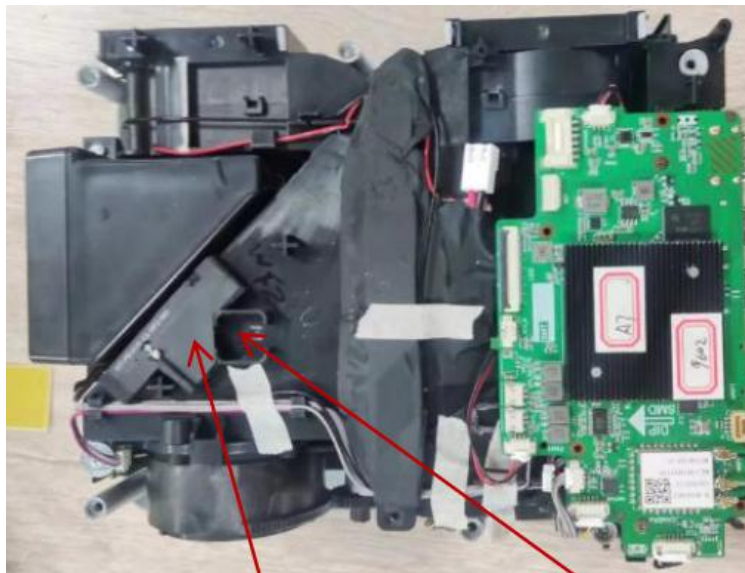
2

Antenna performance

1、 The overall machine environment and antenna **KTC**



WIFI1



WIFI2



BT

2、Antenna performance-Passive-VSWR

KTC



WIFI1



WIFI2

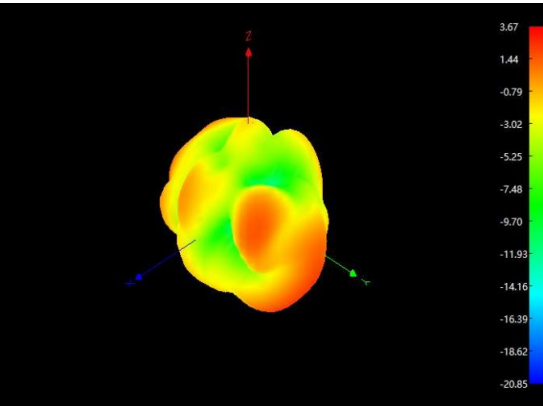
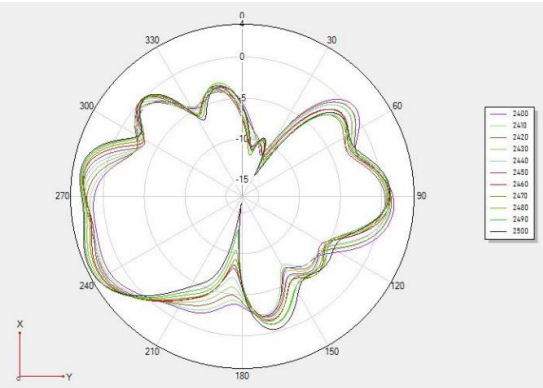


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2、Antenna performance-Passive- Efficiency,Gain,Radiation pattern

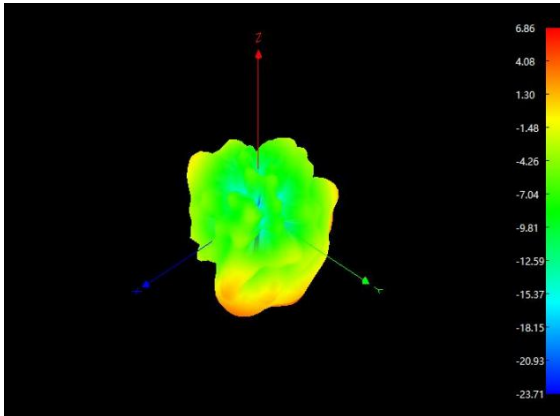
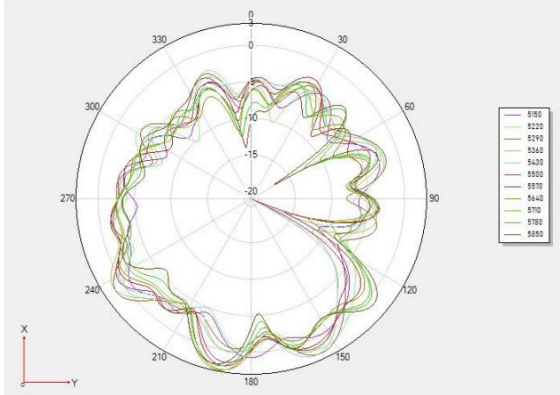
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Frequency / MHz	Efficiency / %	Gain/ dB
2400	63.68	2.71
2410	61.52	2.53
2420	66.07	2.51
2430	63.83	2.7
2440	65.01	2.56
2450	62.66	2.74
2460	64.42	2.87
2470	62.66	2.98
2480	63.83	3.31
2490	61.8	3.49
2500	60.39	3.67



WIFI1-2.4G

Frequency / MHz	Efficiency / %	Gain/ dB
5150	69.34	6.55
5220	69.66	6.29
5290	67.96	6.86
5360	65.31	6.05
5430	67.14	4.4
5500	69.02	4.65
5570	64.12	4.88
5640	65.16	4.64
5710	64.86	3.81
5780	61.24	3.2
5850	63.68	3.93

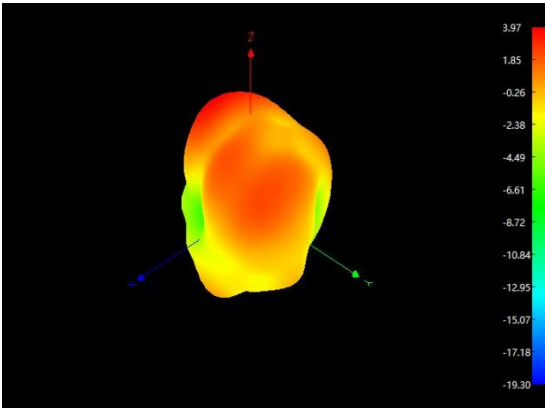
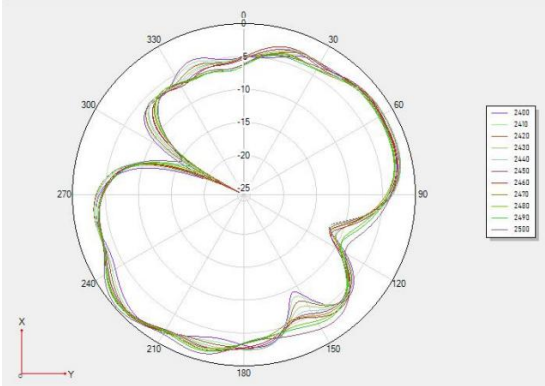


WIFI1-5G

2、Antenna performance-Passive- Efficiency,Gain,Radiation pattern

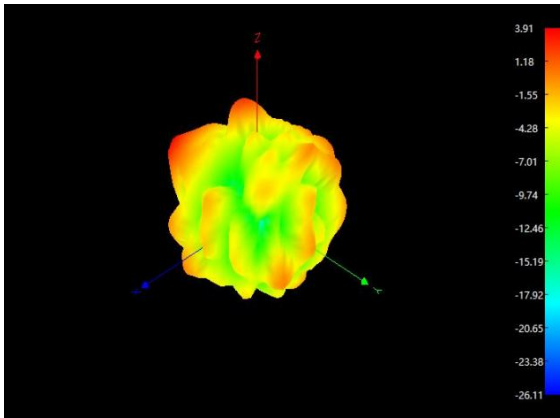
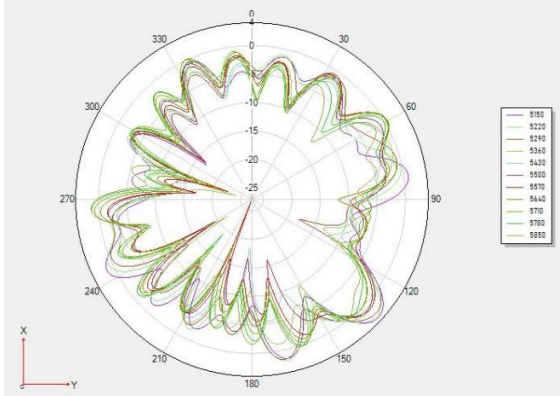
KTC

Frequency / MHz	Efficiency / %	Gain/ dB
2400	56.23	3.33
2410	53.83	3.67
2420	56.75	3.73
2430	54.95	3.95
2440	55.98	3.96
2450	52.72	3.75
2460	53.33	3.67
2470	51.64	3.66
2480	52.36	3.95
2490	52.12	3.67
2500	54.83	3.97



WIFI2-2.4G

Frequency / MHz	Efficiency / %	Gain/ dB
5150	56.23	3.46
5220	55.72	3.1
5290	56.49	3.22
5360	51.88	3.57
5430	55.46	3
5500	55.98	3.1
5570	53.58	3.17
5640	51.76	3.37
5710	51.29	3.66
5780	49.43	3.91
5850	45.85	3.29

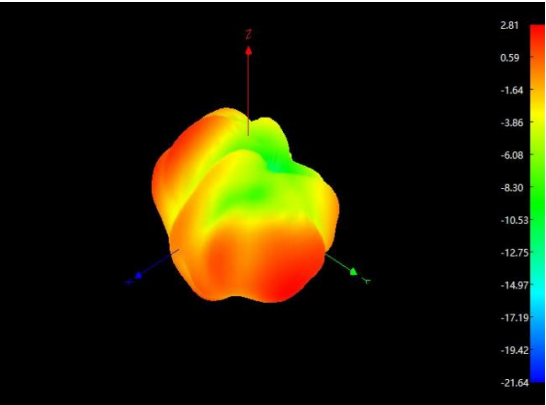
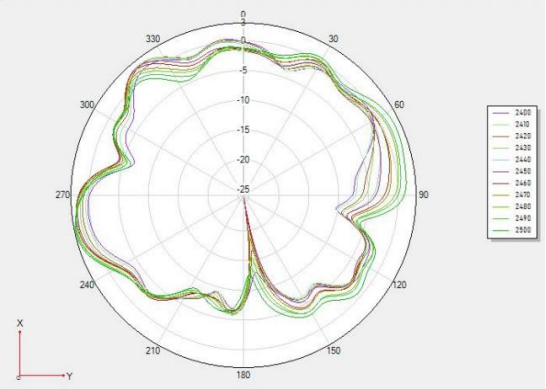


WIFI2-5G

2、 Antenna performance-Passive- Efficiency,Gain,Radiation pattern

KTC

Frequency / MHz	Efficiency / %	Gain/ dB
2400	53.95	2.37
2410	51.52	2.35
2420	55.85	2.38
2430	54.08	2.58
2440	56.36	2.71
2450	53.58	2.63
2460	54.83	2.78
2470	52.6	2.48
2480	53.46	2.59
2490	52	2.58
2500	52.6	2.81



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