

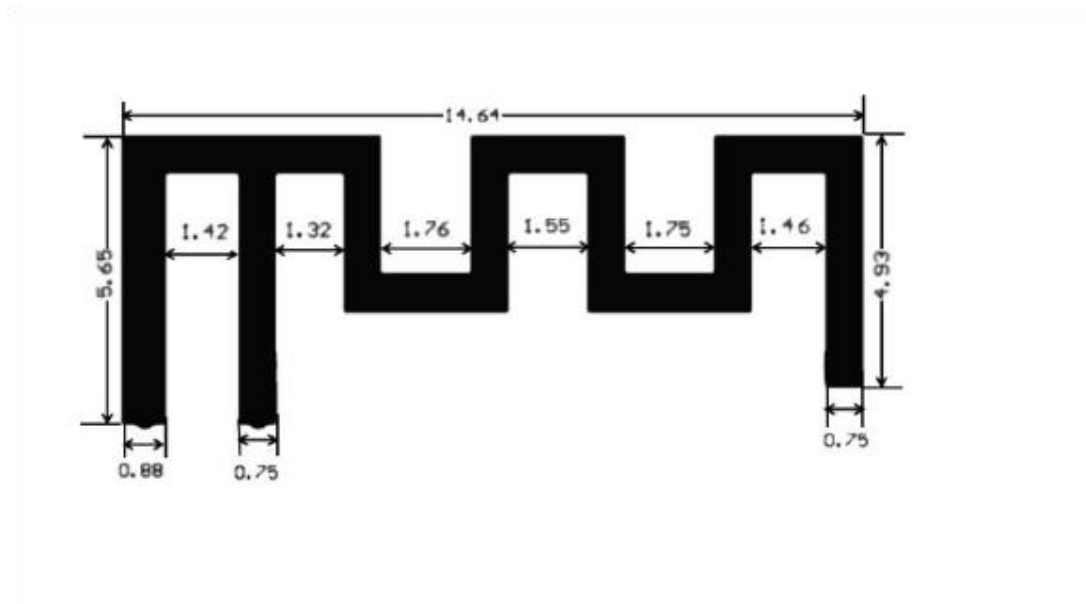
WIFI 2.4G Antenna spec

1.Antenna Description:

Antenna type	PCB antenna
Model	CB3S
Frequency range	2400MHz - 2500MHz
Manufacturer	Hangzhou Tuya Information Technology Co.,Ltd
Address	Room 106, Building 3, Letong Science Park, No. 500, Qiuyi Road, Binjiang District, Hangzhou

2. Antenna Photo:

Unit:mm

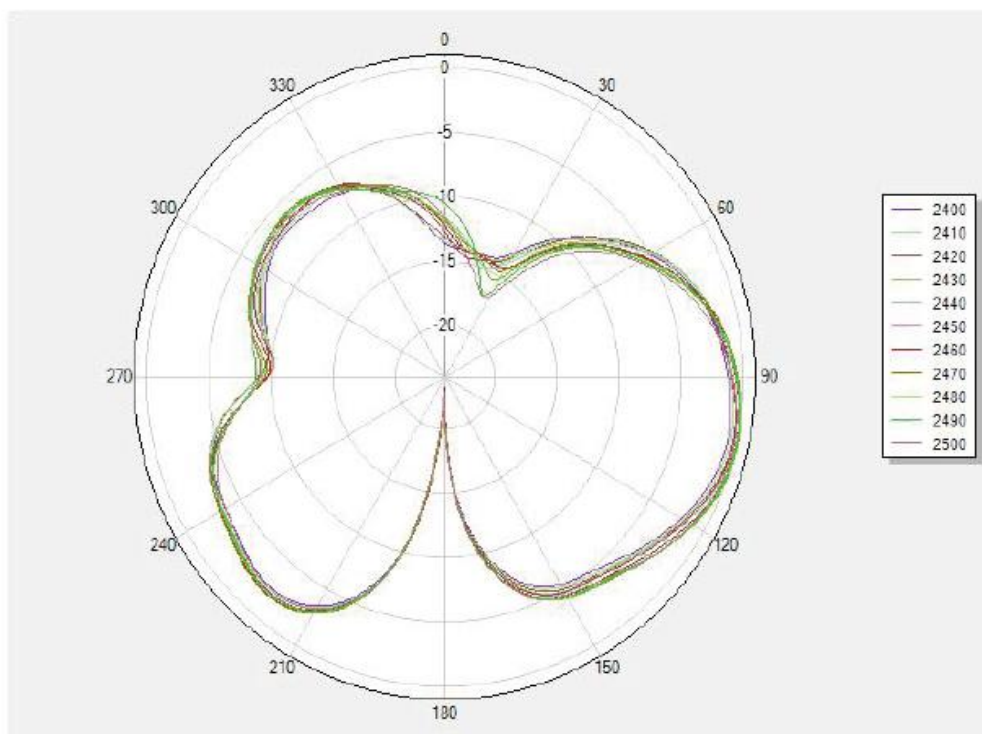
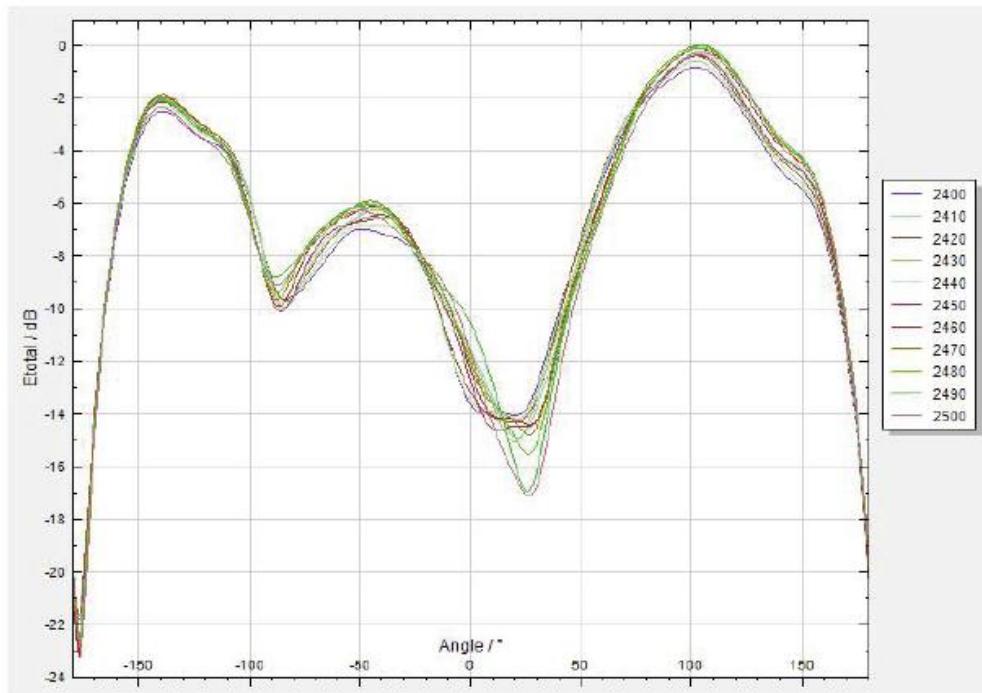


3. Antenna Efficiency and Gain:

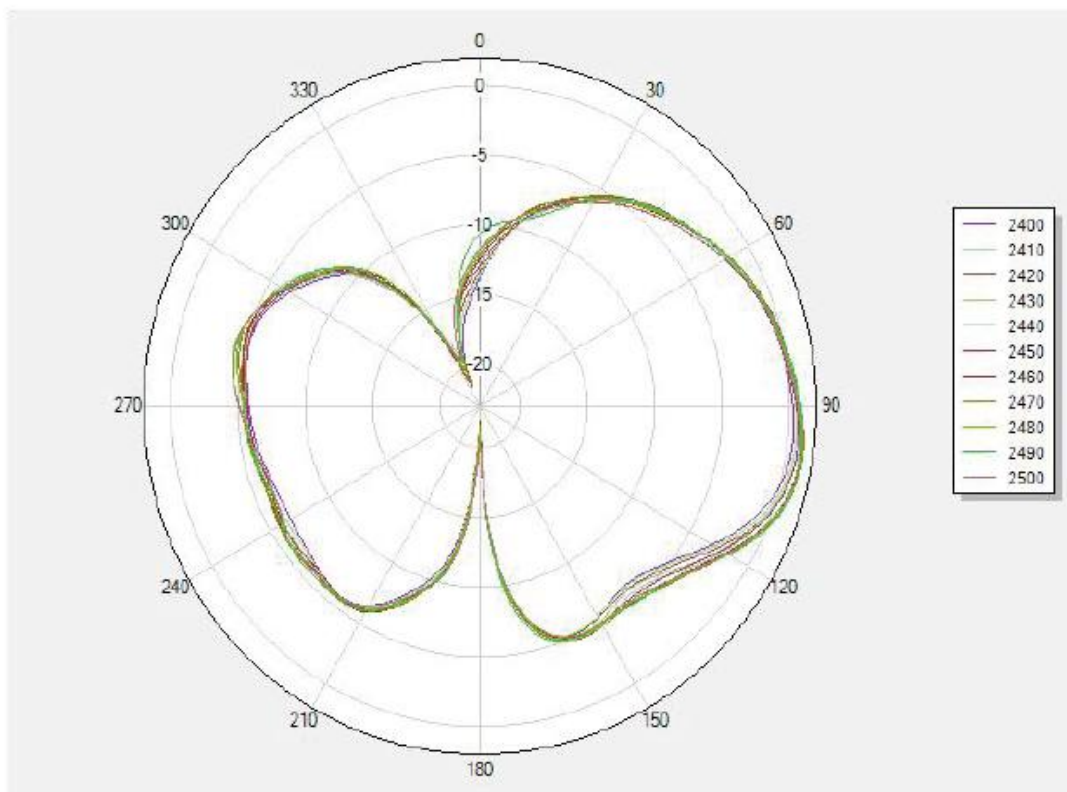
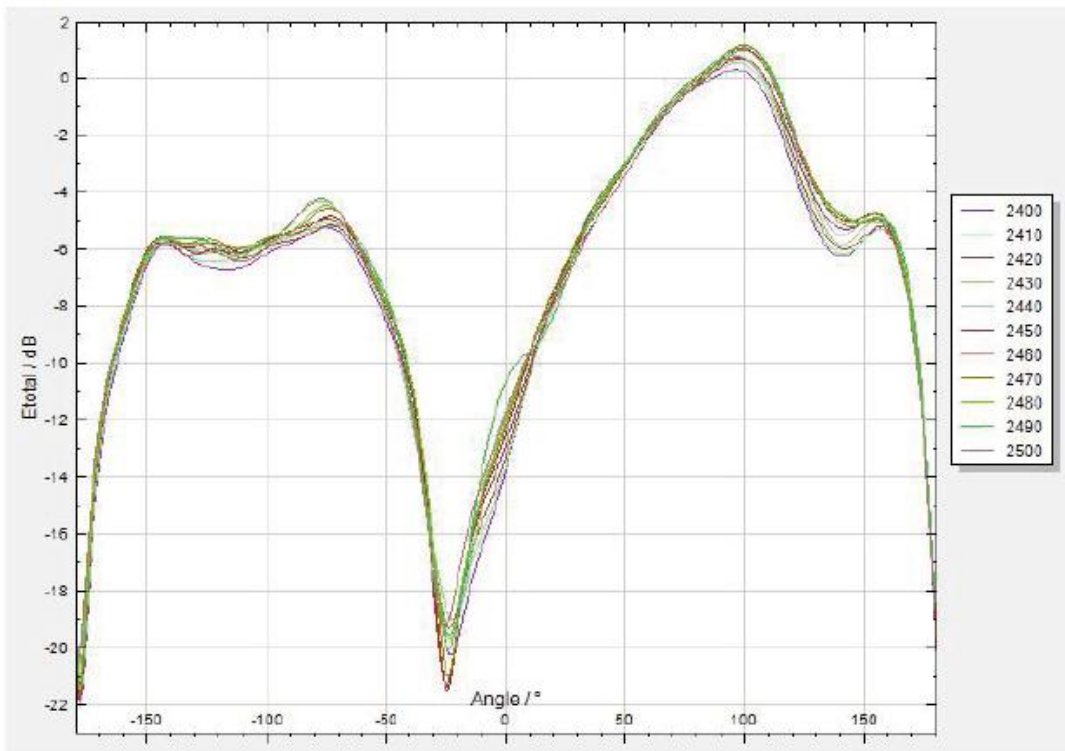
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	0.46	44.36
2410	0.71	45.71
2420	0.92	45.92
2430	0.91	45.6
2440	0.95	45.6
2450	0.93	45.29
2460	1.27	46.45
2470	1.37	46.88
2480	1.25	47.21
2490	1.24	46.67
2500	1.05	44.87

4. Radiation Pattern

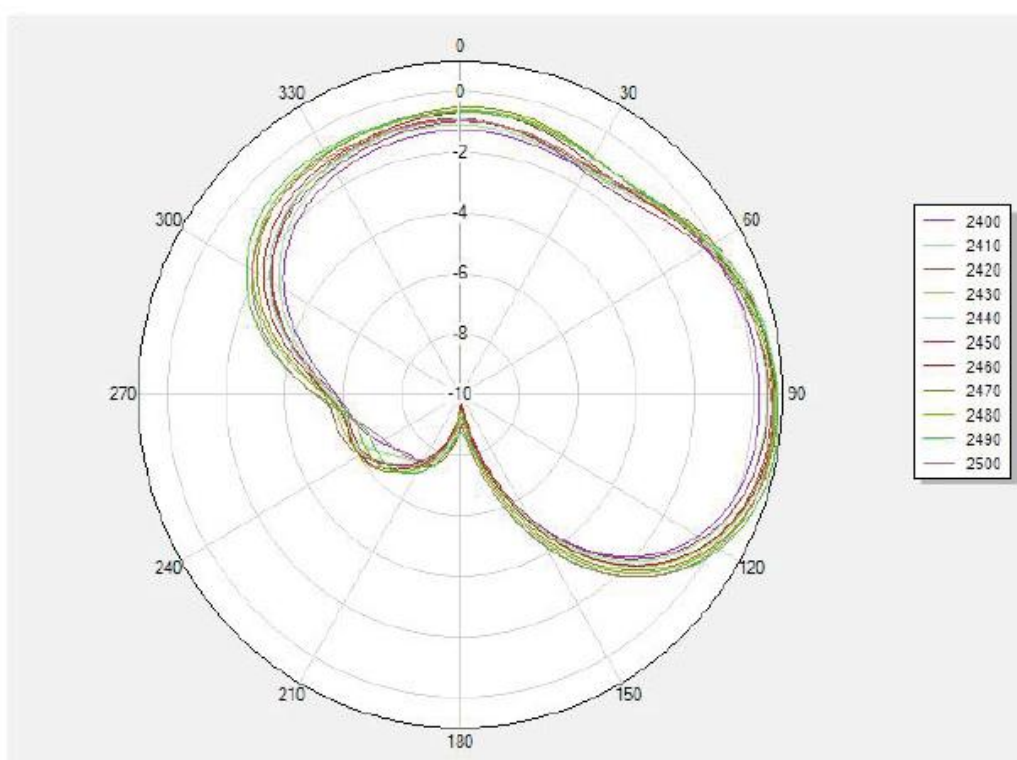
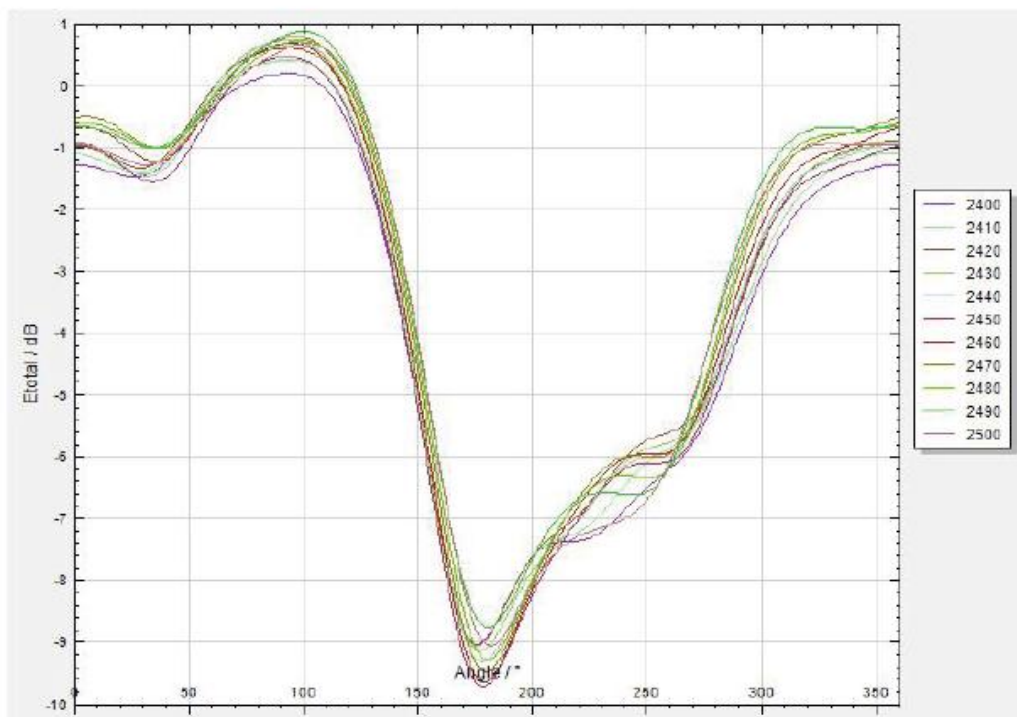
Phi 0



Phi 90



Theta 90



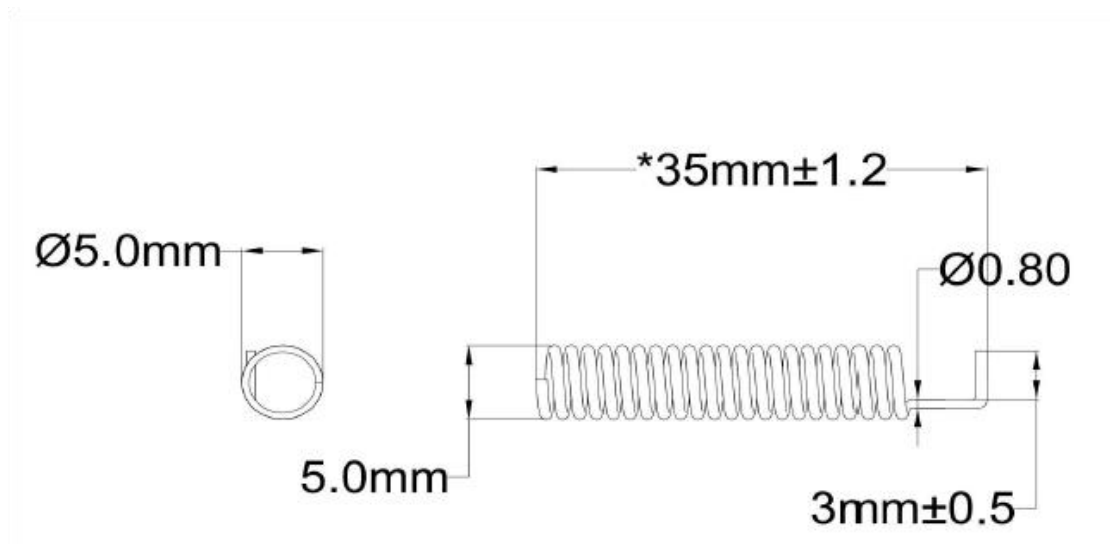
433 Antenna spec

1. Antenna Description:

Antenna type	Spring antenna
Model	CF-TH004A
Frequency range	430MHz - 436MHz
Manufacturer	Shenzhen Chufeng Communication Co., LTD
Address	5th Floor, No. 49, Yangtaishan Road, Guantian Community, Shiyan Sub-district, Bao 'an District, Shenzhen City

3. Antenna Photo:

Unit:mm

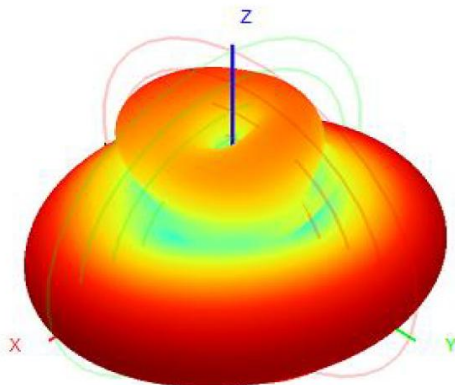


3. Antenna Efficiency and Gain:

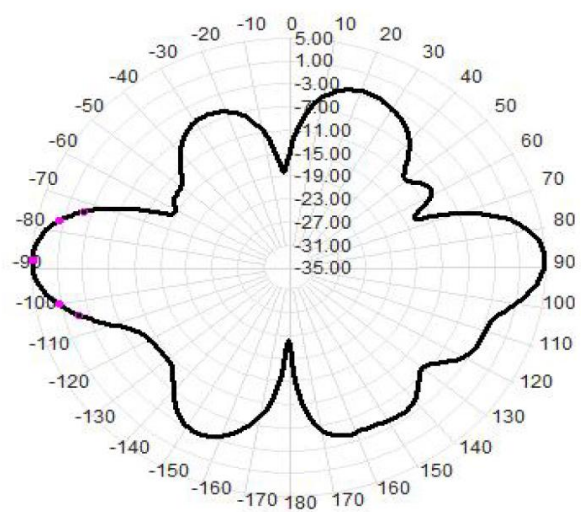
Frequency/ MHz	MaxGain/dB i	AvgGain/dB i
430	-2.15	-9.33
431	-1.5	-9.33
432	-1.52	-9.6
433	-1.41	-9.82
434	-2.49	-9.79
435	-2.2	-9.43
436	-3.4	-9.9

4. Radiation Pattern

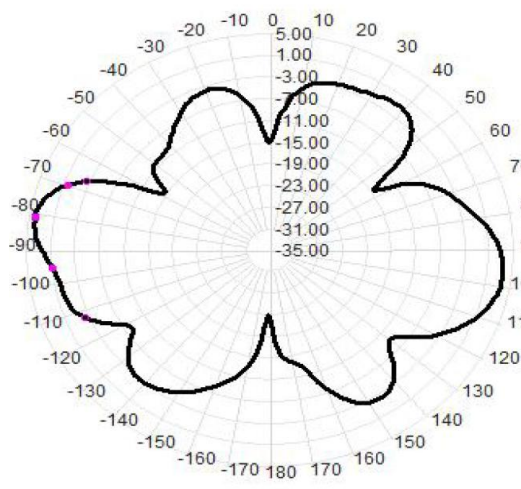
433MHz



E1



E2



H

