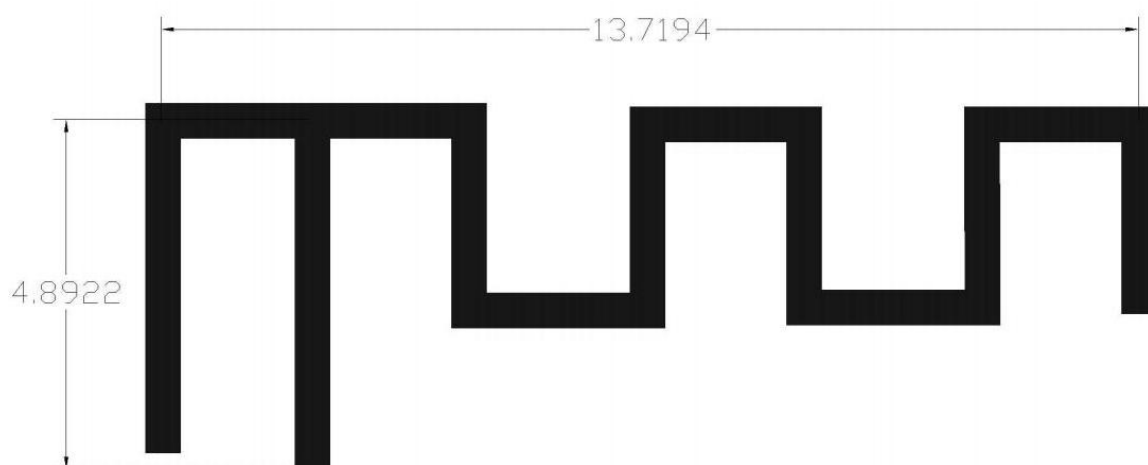


Antenna Specification Sheet

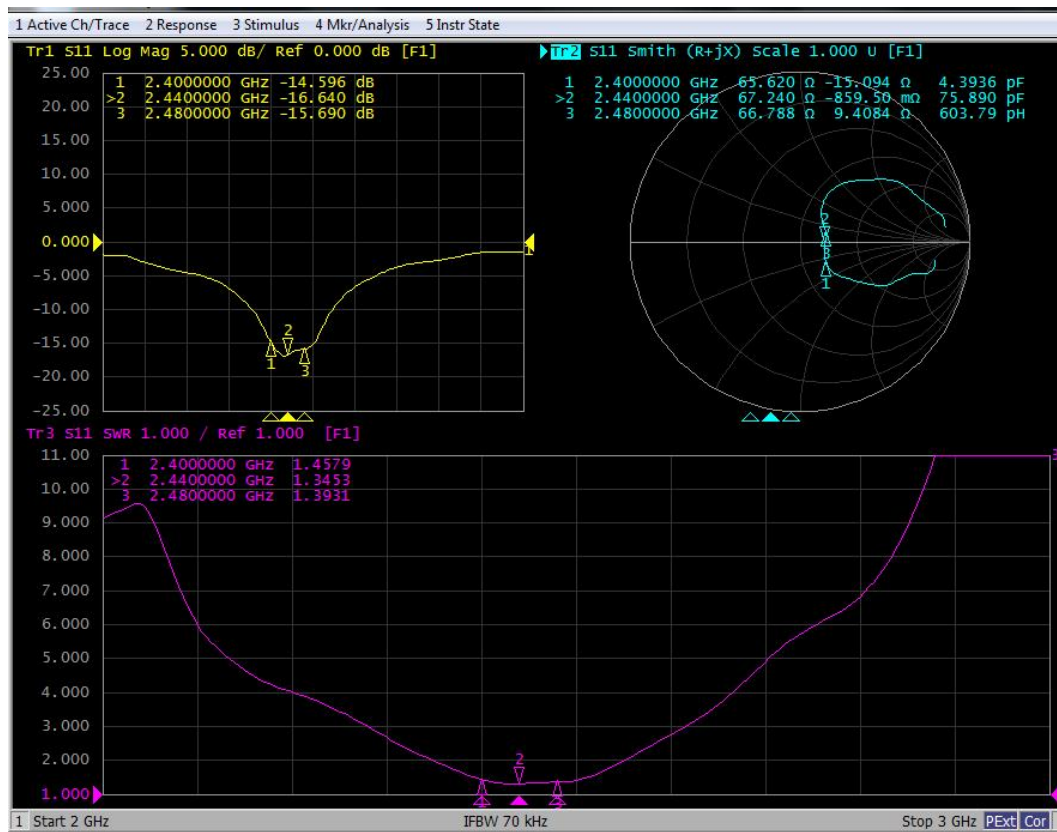
The integral antenna of the modules is a PCB trace type. The embedded antenna is not commercially available: it is only intended for use as the self-contained integral antenna of the radiomodule.

Manufacturer	Hangzhou Zhiyuan Technology Co., Ltd.
Address	No. 10 Naxian Street, Liangzhu Street, Yuhang District, Hangzhou City, Zhejiang Province, China.
Frequency Range (MHz)	2.4 GHz-2.4835 GHz
Input Impedance	50Ω
Types of Antennas	On-board Antenna

Antenna size



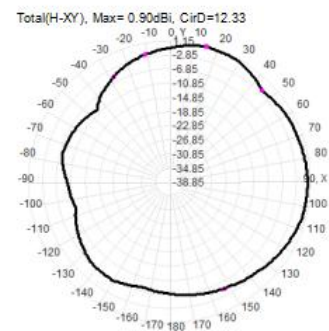
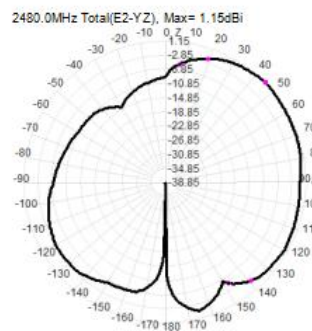
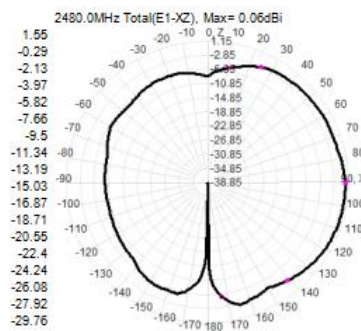
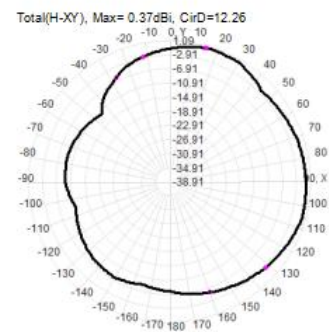
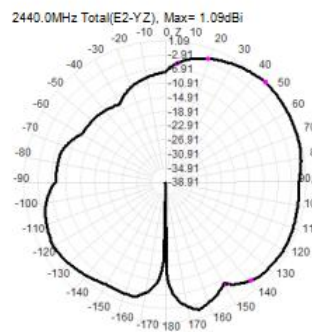
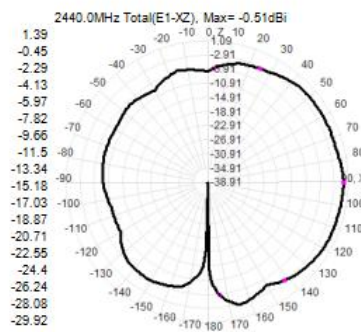
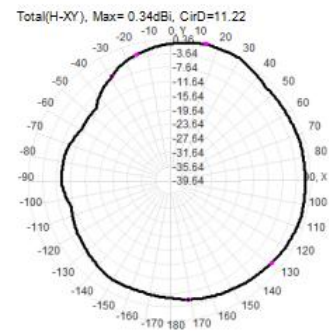
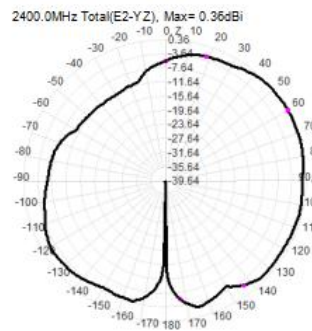
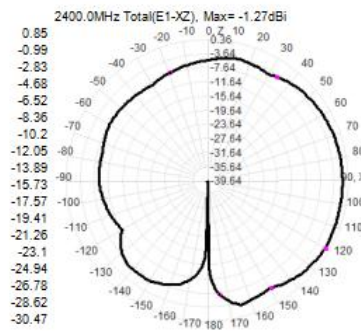
Antenna impedance:



Passive efficiency, gain, directionality, roundness

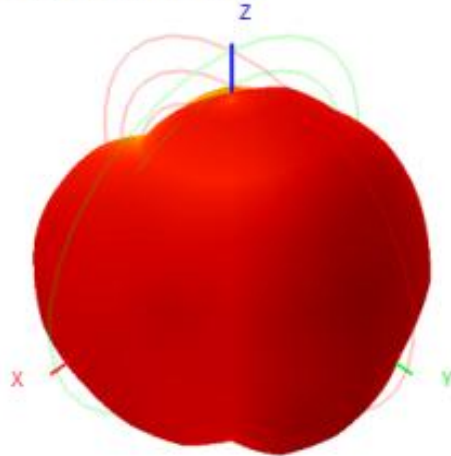
Frequency (MHz)	Gain (dBi)	Efficiency (%)	Efficiency (dB)	Directivity (dB)	T90(H)Roundness
2400	0.85	42.49	-3.72	4.57	11.22
2410	1.12	43.53	-3.61	4.73	11.25
2420	1.19	44.19	-3.55	4.73	11.43
2430	1.27	44.62	-3.50	4.77	11.67
2440	1.39	44.90	-3.48	4.87	12.26
2450	1.48	45.18	-3.45	4.93	12.18
2460	1.63	45.58	-3.41	5.04	12.25
2470	1.71	45.98	-3.37	5.08	12.09
2480	1.55	46.53	-3.32	4.87	12.33
2490	1.43	46.83	-3.29	4.73	12.02
2500	1.37	46.08	-3.37	4.73	11.75

Antenna 2D pattern

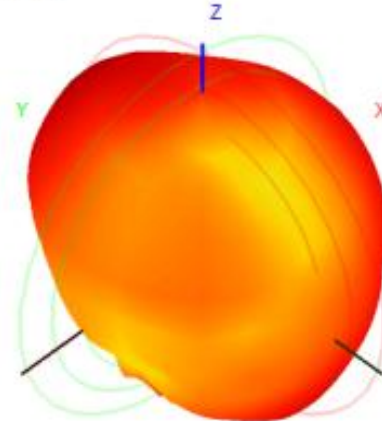


Antenna 3D pattern

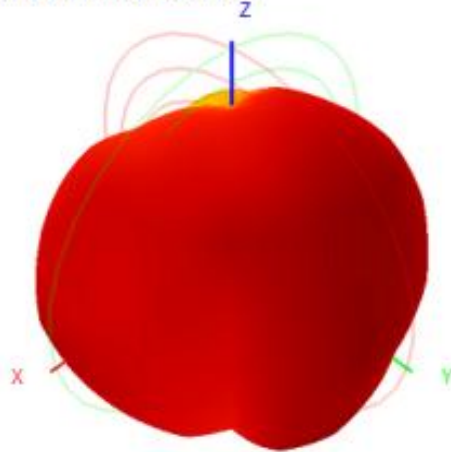
2400.0MHz H+V, Eff: 42.5%



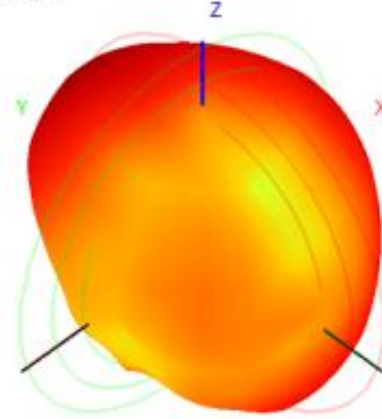
Back View



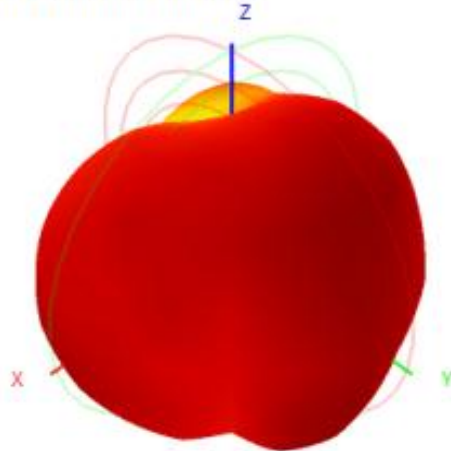
2440.0MHz H+V, Eff: 44.9%



Back View



2480.0MHz H+V, Eff: 46.5%



Back View

