

BT38A Product Antenna commissioning report

Date: March 14, 2023

Proposed system: Huang Zhiwei

Audit: Fang Wenfeng

Approval: Xiao Han

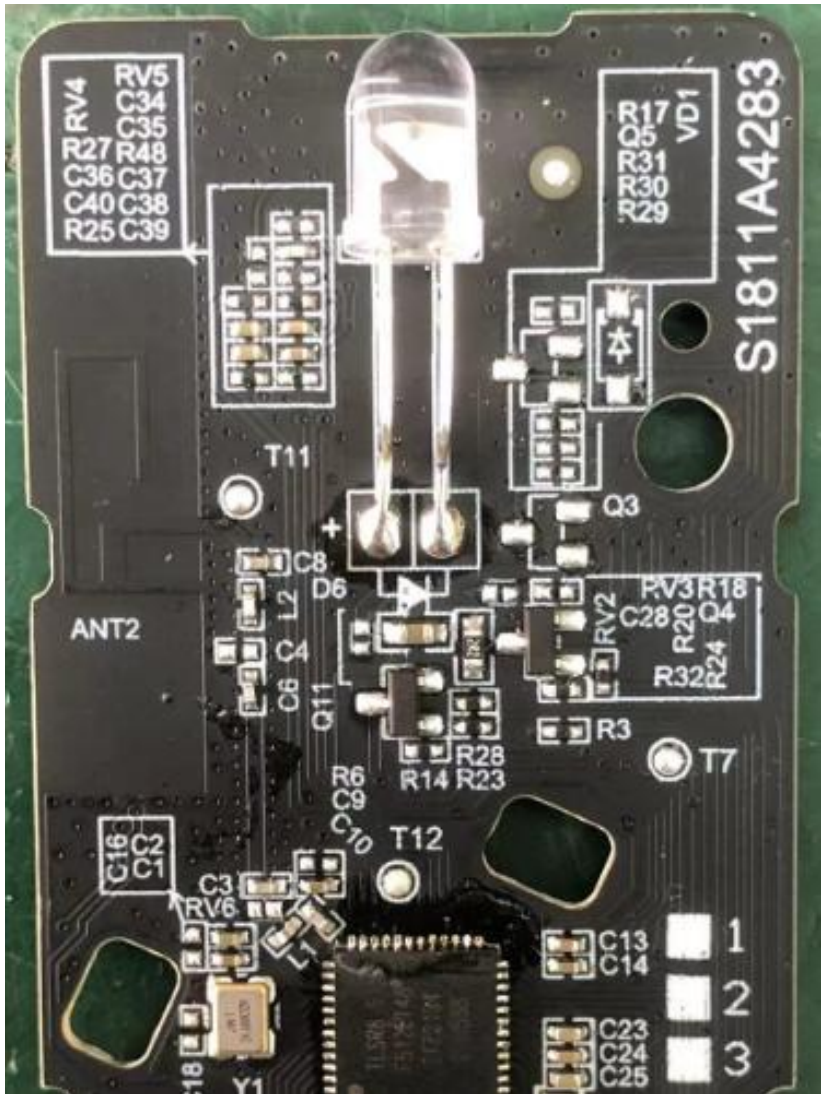
Factory : KONKA GROUP CO., LTD

No. 28 Keji South 12th Road, Nanshan District, Shenzhen, Guangdong, China

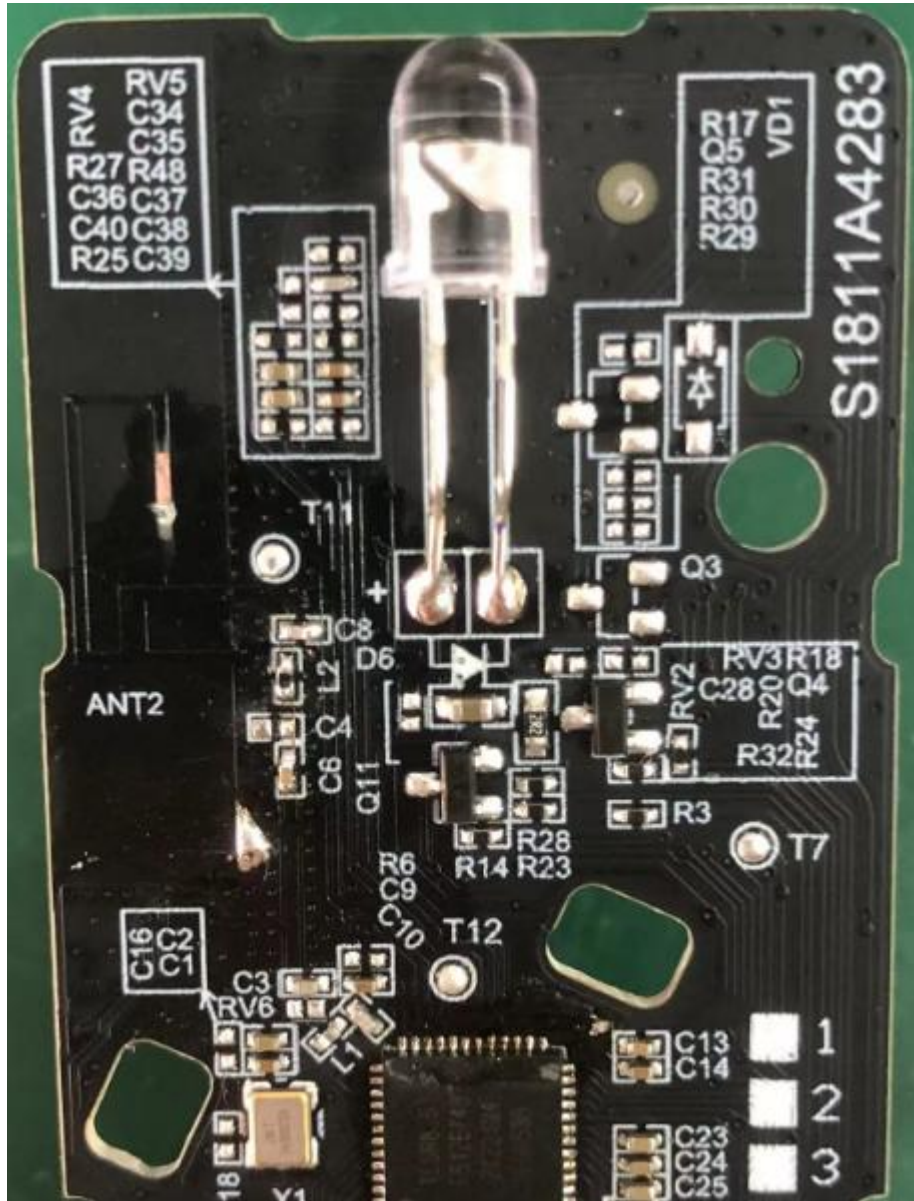
—. Project Overview

CustomerName	Project Name	Antenna implementation method
802	SRC-1811	Onboard antenna
Working frequency band (MHz)		
2.4G	2400-2500 MHz	

Original antenna location diagram

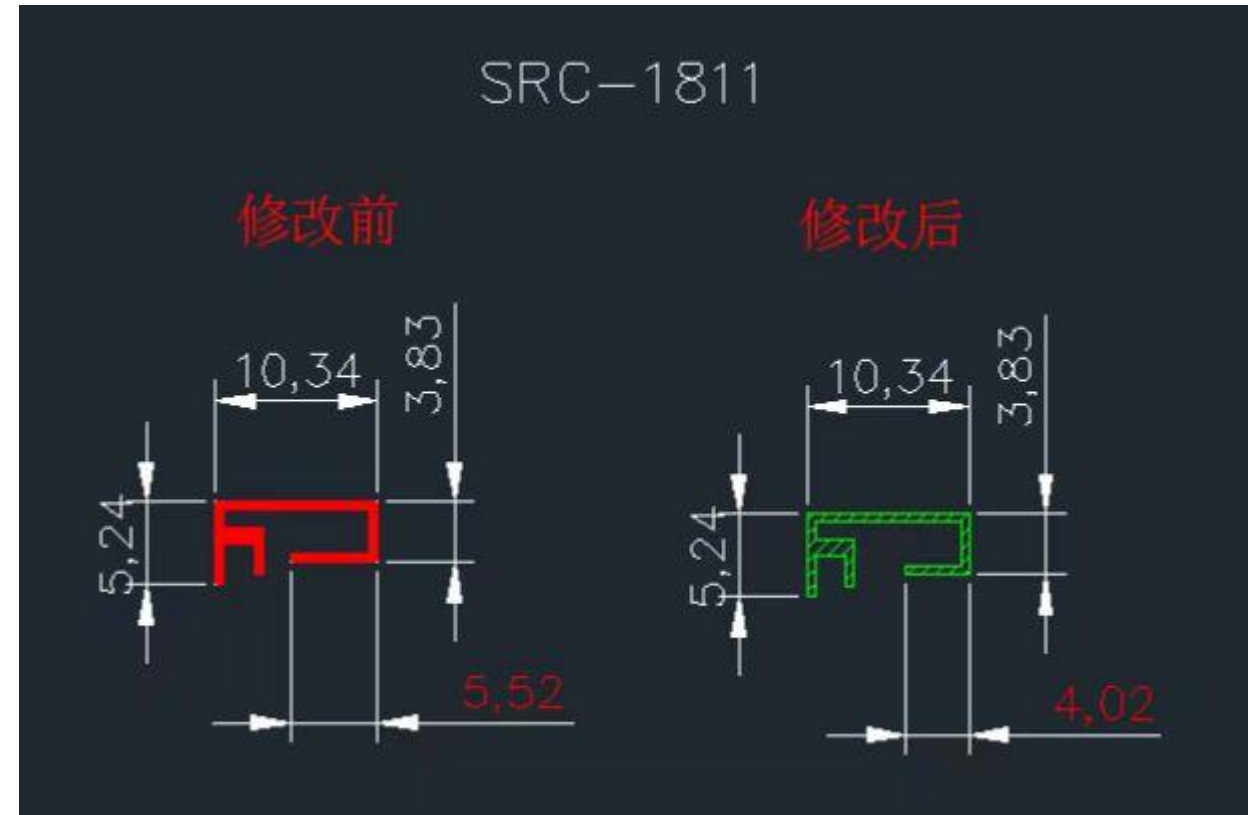


New antenna change chart



The original C8 position match is changed to 1PF capacitor

The original L2 position match was changed to 0 ohm resistance



Standing wave diagram of the new antenna

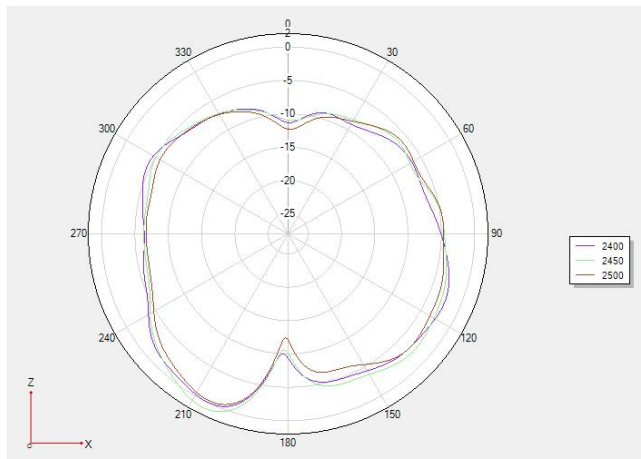


New antenna passive test data

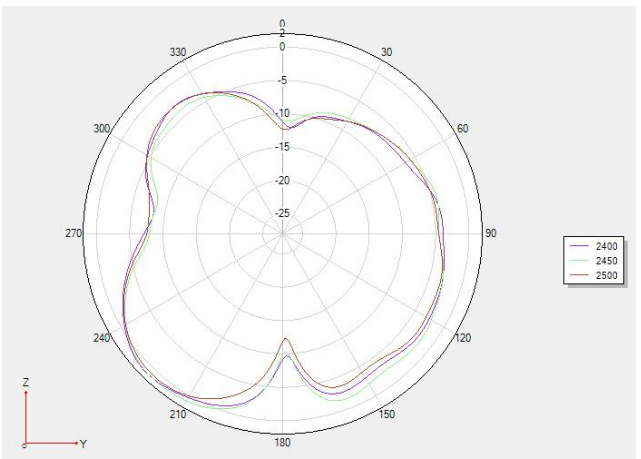
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	43.21	1.39
2410MHz	42.07	1.28
2420MHz	42.95	1.17
2430MHz	40.21	1.08
2440MHz	43.08	1.25
2450MHz	46.95	1.69
2460MHz	45.73	1.48
2470MHz	41.72	1.09
2480MHz	42.11	1.14
2490MHz	44.09	1.47
2500MHz	42.48	1.36

New antenna test 2D3D diagram

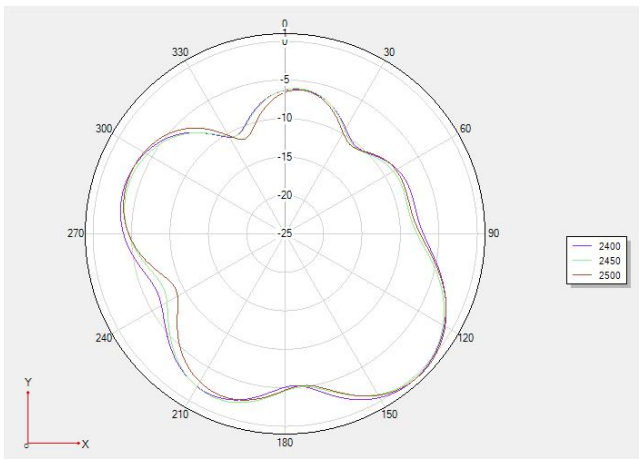
Phi 0 2Dfigure



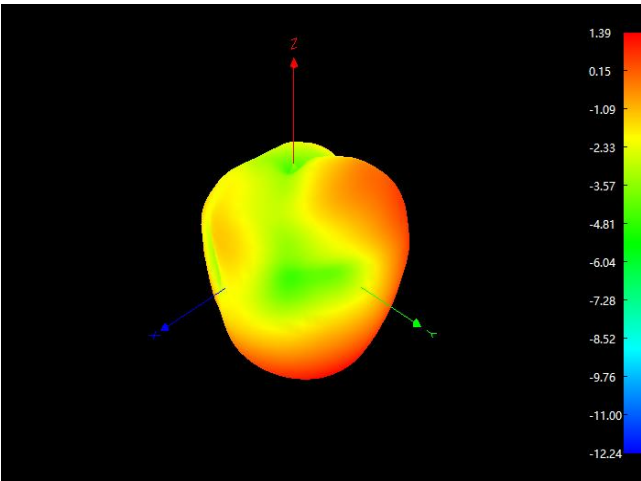
Phi 90 2Dfigure



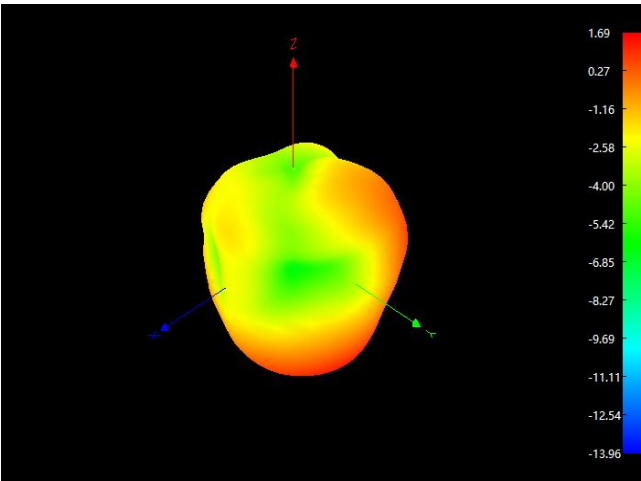
Theta 90 2Dfigure



2400



2450



2500

