



深圳市昱晟通讯设备有限公司
Yusheng Communications-equipment Co.,LTD

小澈CWR02 Antenna Report

Project name 项目名称	CWR02	RF Engineer 射频工程师	洪远凯
Project phase 项目阶段		TEL	15119409299

时间	报告版本	主要内容
2024-05-13	V0.1	初步调试报告
2024-06-01	V0.2	天线优化报告

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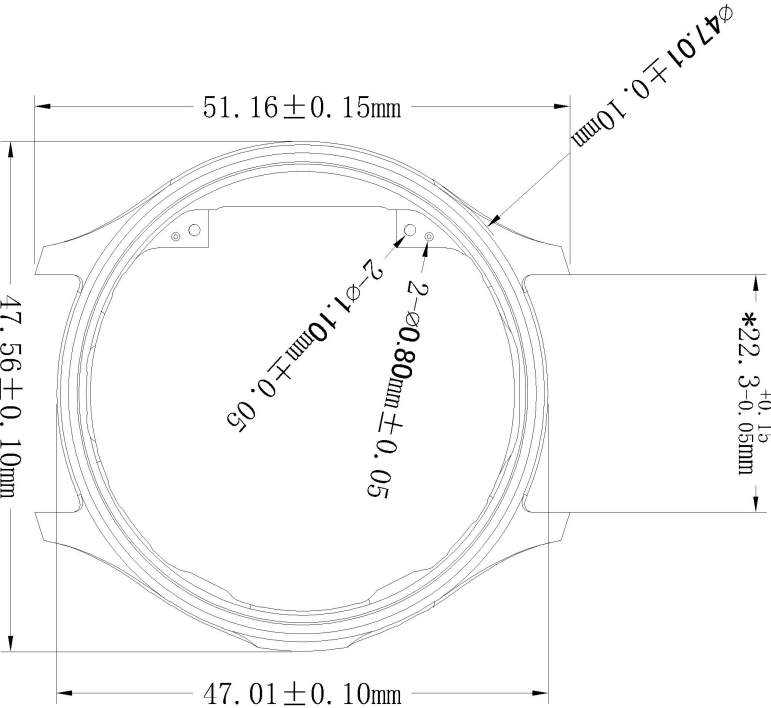
CWR03G antenna specifications

Antenna Description

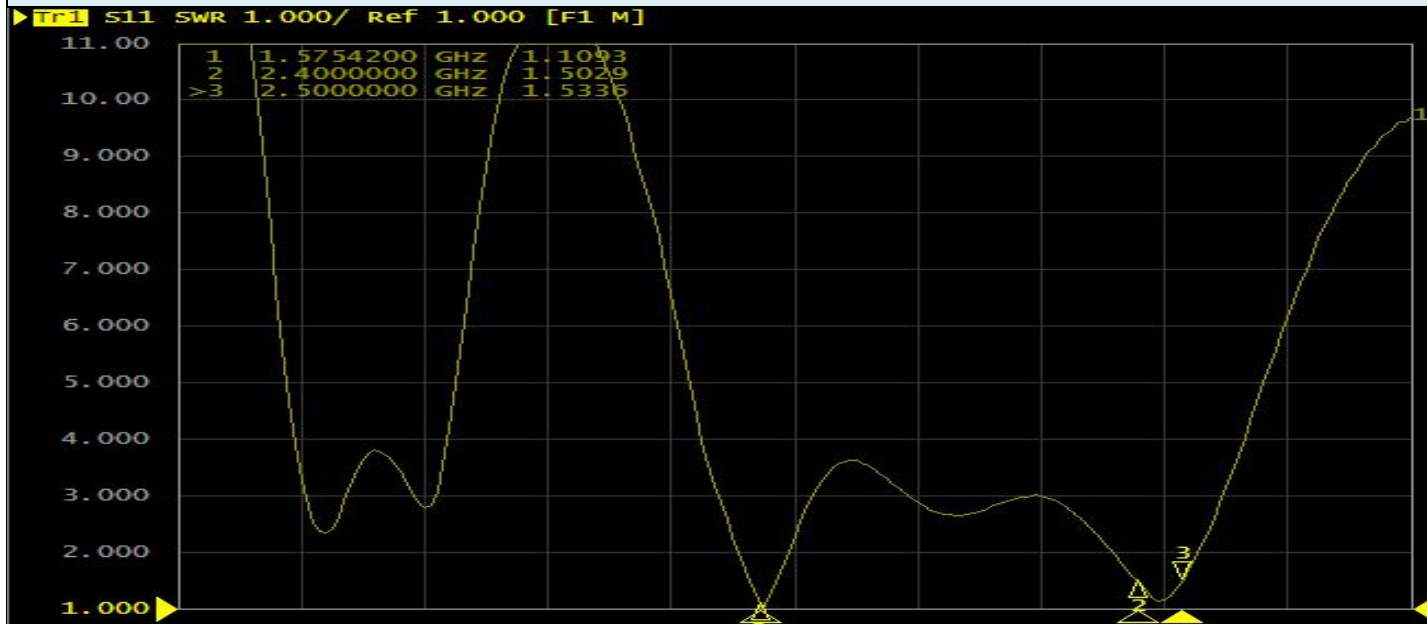
The antenna of the BW691A2F project uses a metal frame and a face ring as the antenna radiator, and the motherboard end is connected to the antenna body by shrapnel to connect the main feed point and ground feed point.

Antenna appearance



Antenna Size				
Antenna size	51.16mm*47.56mm	ANT type: Metal center frame antenna	Antenna material: aluminum alloy	
Antenna efficiency parameter	Passive debugging results: 1. Arm GPS antenna efficiency debugging is about 8%, 2. Arm BT antenna efficiency debugging is about 8%			

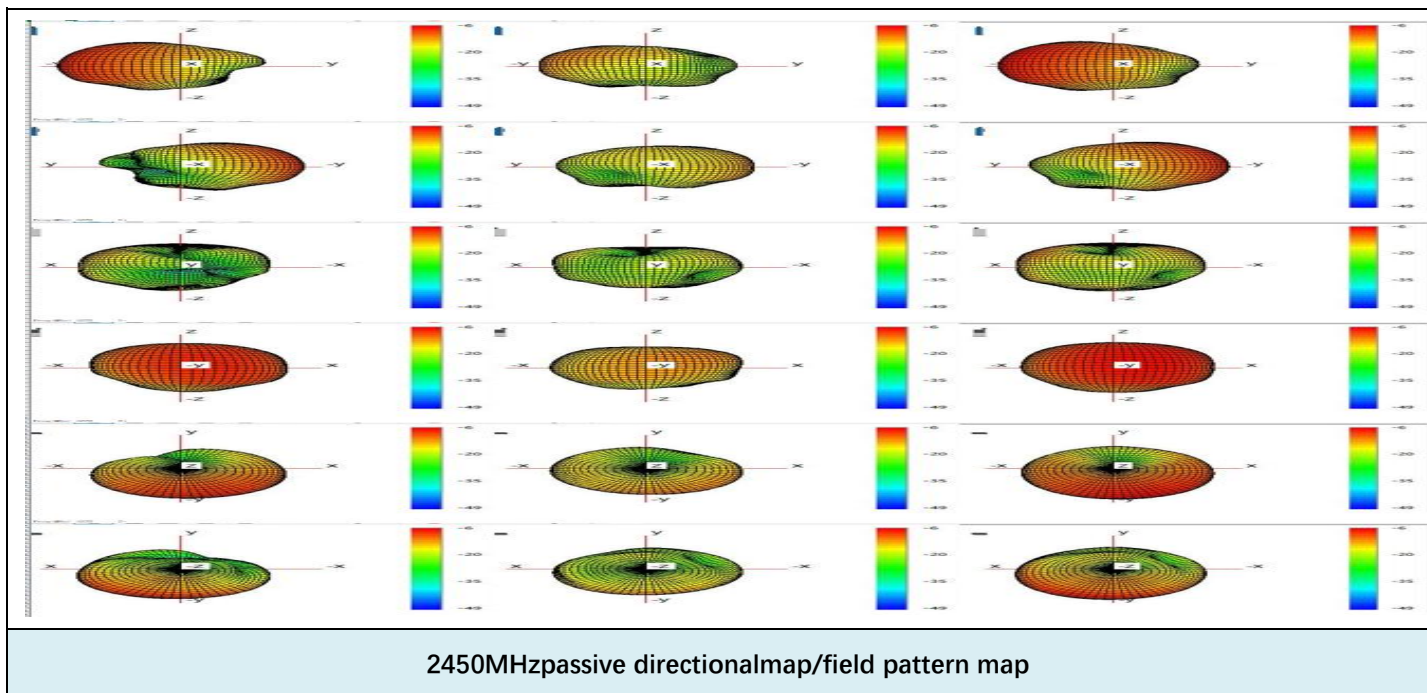
GPS/BT passive diagram

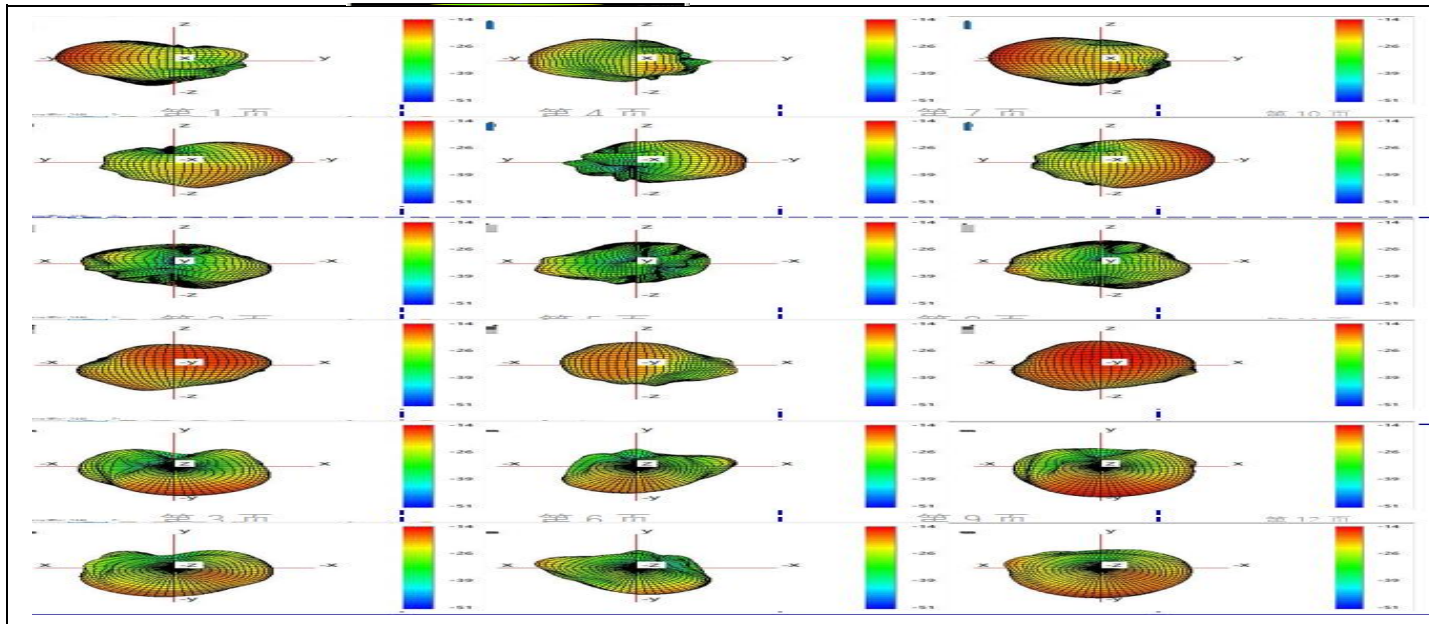


Testing of antenna efficiency parameters

	equency poi	efficiency(%)	efficiency(dB)	gain(dBi)		equency poi	efficiency(%)	efficiency(dB)	gain(dBi)
BT Arm	2400	8%	-11.1	-3.9	GPS Arm	1550	7%	-11.4	-4.0
	2410	8%	-11.0	-3.7		1555	7%	-11.3	-3.8
	2420	8%	-10.9	-4.0		1560	8%	-11.1	-3.7
	2430	8%	-10.9	-3.8		1565	8%	-11.0	-3.5
	2440	8%	-11.0	-3.5		1570	8%	-10.9	-3.6
	2450	8%	-11.1	-3.3		1575	8%	-11.0	-3.8
	2460	7%	-11.3	-3.4		1580	8%	-11.1	-3.6
	2470	8%	-11.2	-3.6		1585	8%	-11.2	-3.7
	2480	8%	-11.0	-3.9		1590	7%	-11.5	-3.9
	2490	8%	-10.9	-4.0					
	2500	8%	-11.0	-4.1					

1575MHzpassive directionalmap/field pattern map





Antenna type	PIFA
Antenna manufacturername	Shenzhen Yusheng CommunicationEquipmentCo., Ltd
Antenna manufactureraddress	407-411, 4th Floor, Building 2, South Taiyun ChuangguPark, southeastof the intersection of GuangmingAvenue and DongchangRoad, GuangmingDistrict, Shenzhen