

Shenzhen Etheta Communicate Ltd.

(Shenzhen R&D)

Customer: TCL Communication Ltd.

Project name: Hera

Product name: Hera antenna

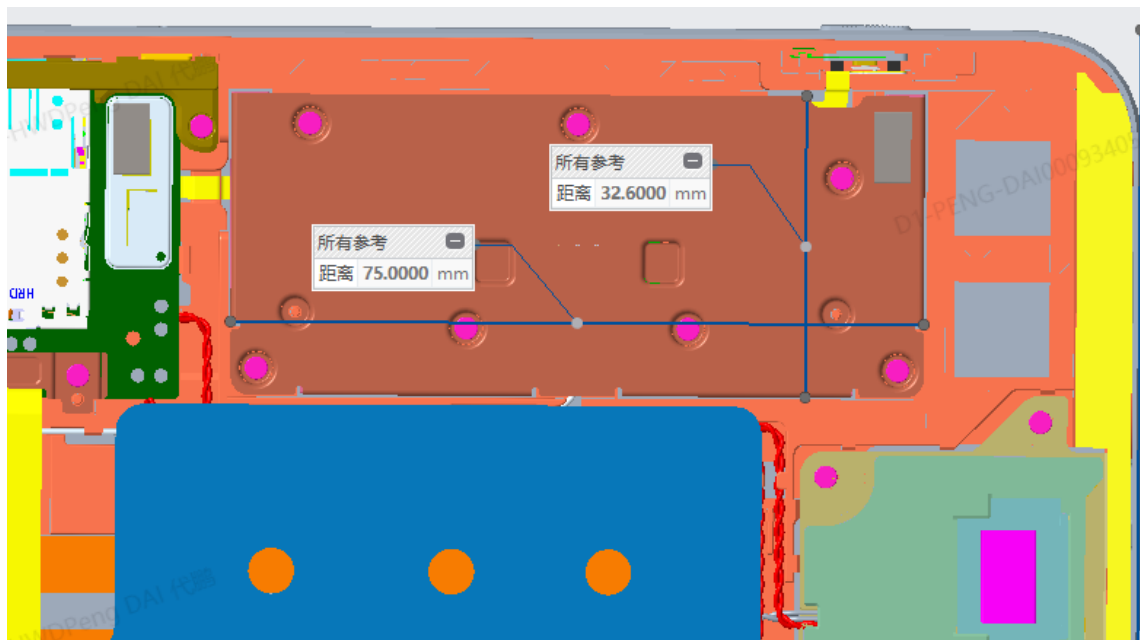
Material:

Wifi 5G: FPC

BT/WIFI 2.4G: Steel sheet

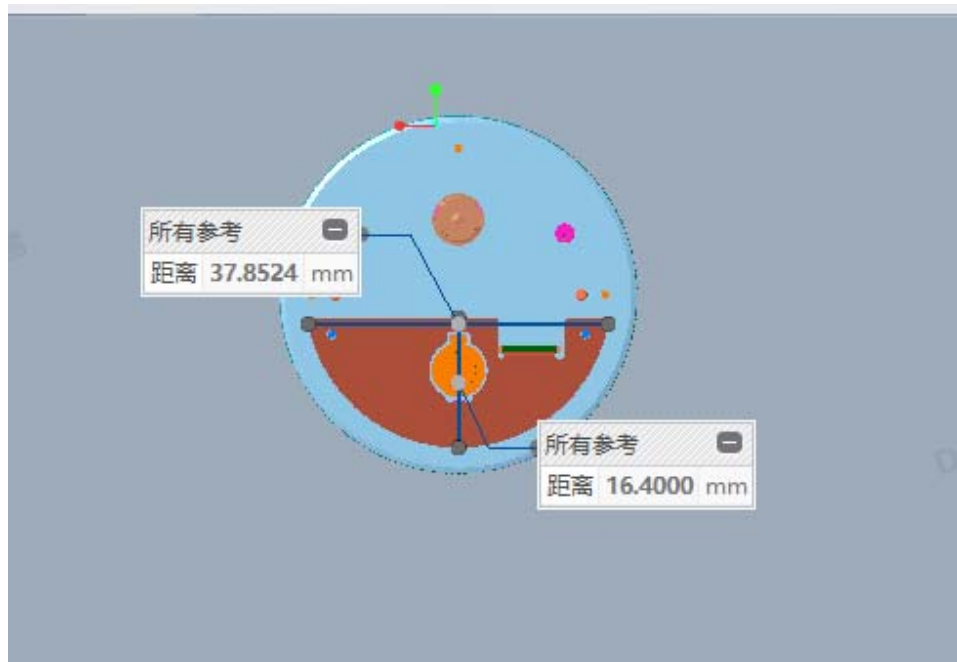
Date: 2024.6.4

WIFI 2.4G+BT Antenna



Antenna	Length	Width	highth	
WiFi 2.4G+BT	75mm	32.6mm	/	天线形状，参考上图所示

WIFI 5G Antenna

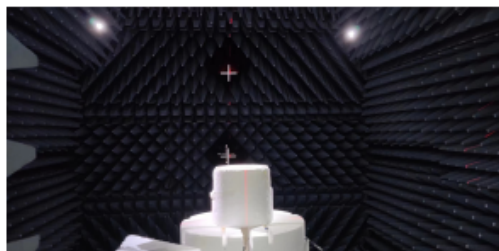


Antenna	Length	Width	highth	
WiFi 5G+GPS	37.85mm	16.4mm	/	天线形状，参考上图所示

Test system introduction:

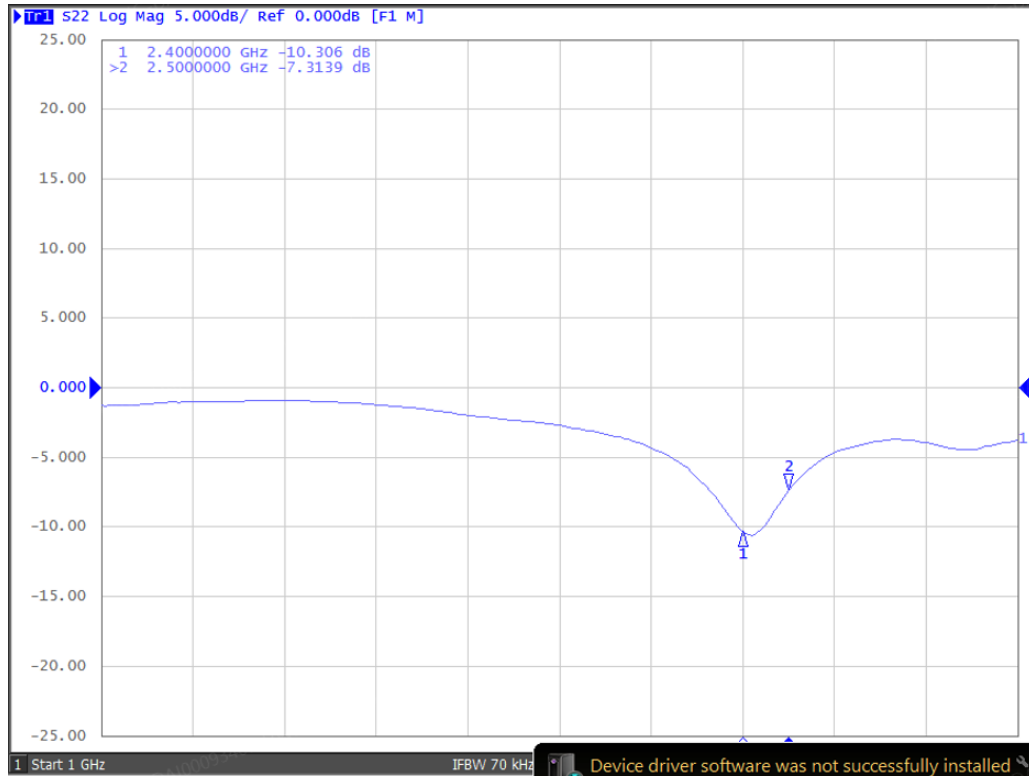
实验室测试环境及设备

测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071C
Efficiency、Gain	SATIMO暗室
TRP、TIS	8960、GTS2800
SAR&HAC	SAR 测试系统

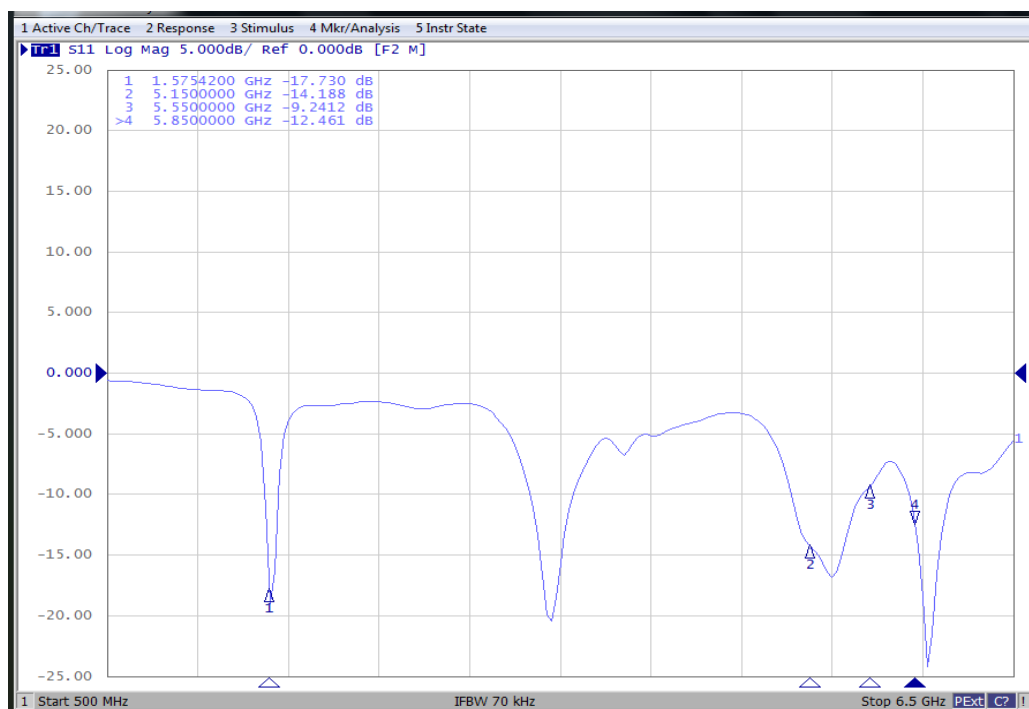


S11:

1、 2.4G WIFI



2、 WiFi 5G+GPS



Effi, Gain:

1、BT/2.4G WIFI

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Peak Gain
2400	23.5	-6.3	-0.5
2420	23.7	-6.3	-0.3
2430	24.9	-6.0	-0.1
2440	25.9	-5.9	0.1
2450	27.0	-5.7	0.2
2460	29.2	-5.4	0.2
2470	26.5	-5.8	0.1
2480	25.9	-5.9	-0.1
2490	25.6	-5.9	-0.1
2500	26.8	-5.7	0.1

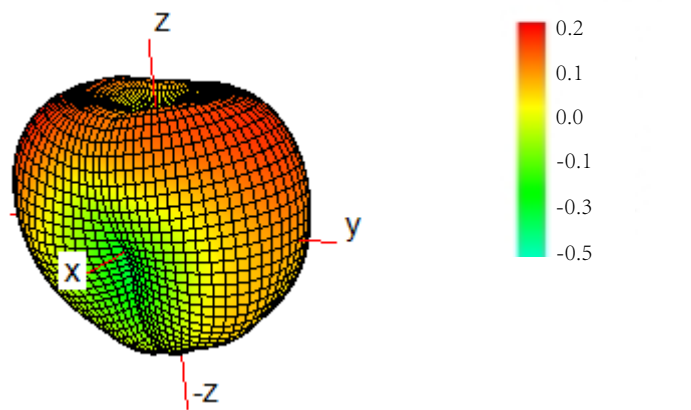
2、WiFi 5G

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Peak Gain
1550	10.2	-9.9	-4.6
1560	10.5	-9.8	-4.4
1570	10.6	-9.8	-4.4
1575	10.6	-9.8	-4.2
1580	10.4	-9.8	-4.1
1590	10.0	-10.0	-4.4
1600	9.4	-10.3	-4.2
5150	20.9	-6.8	0.6
5200	20.9	-6.8	0.4
5250	21.1	-6.8	0.2
5300	19.9	-7.0	0.2
5350	20.5	-6.9	0.1
5400	17.5	-7.6	0.1
5450	17.8	-7.5	0.1
5500	17.6	-7.5	0.3
5550	17.6	-7.5	0.3
5600	17.5	-7.6	0.4
5650	17.8	-7.5	0.5
5700	16.6	-7.8	0.6
5750	20.6	-6.9	0.8
5800	21.8	-6.6	0.7
5850	22.5	-6.5	0.7

3D Pattern:

1、 2.4G WIFI

Frequency=2450MHz:



2、 WiFi 5G

Frequency=5500MHz

