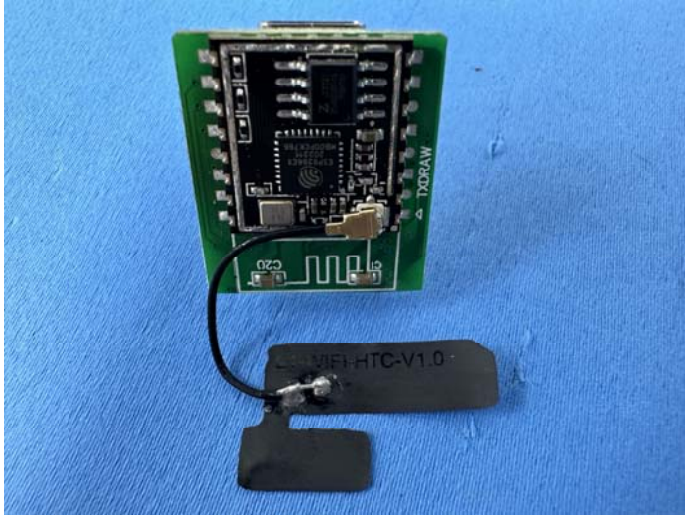


Antennas Testing Report			
Name of Customer	WTRLOK	RF Eengineer	Qiang Xiao
Name of Item	WTRLOK L1	Structural Engineer	Mingzhen Huang
Antenna model	L1		
Antennas Frenquency	WIFI		
Version of Report	Time	Content Overview	
V1.0	2023-5-8	Antennas testing report	

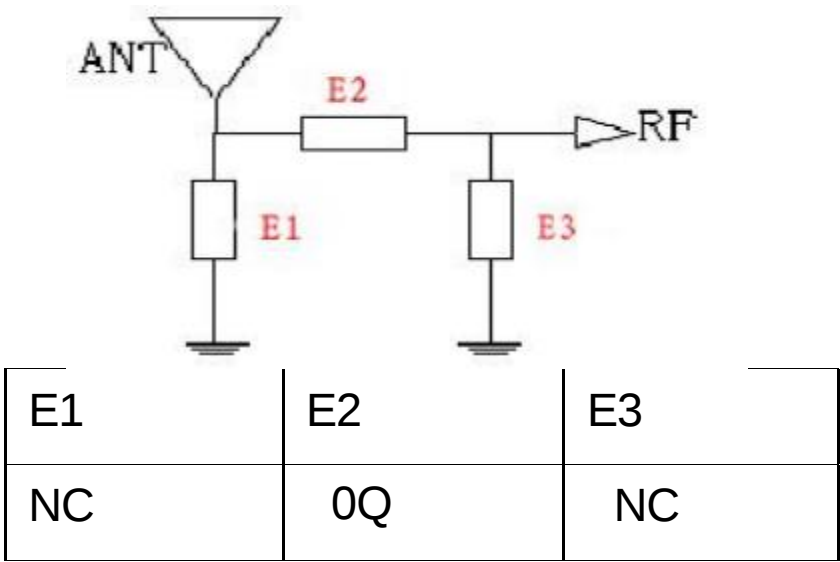
- I. Overall rendering
- II. Matching Circuit
- III. Passive antenna diagram
- IV. Passive gain efficiency of antenna
- V. Antenna active testing data
- VI.11b Active map
- VII.11g Active map
- VIII.11n Active map
- IX. Remark

I. Overall rendering

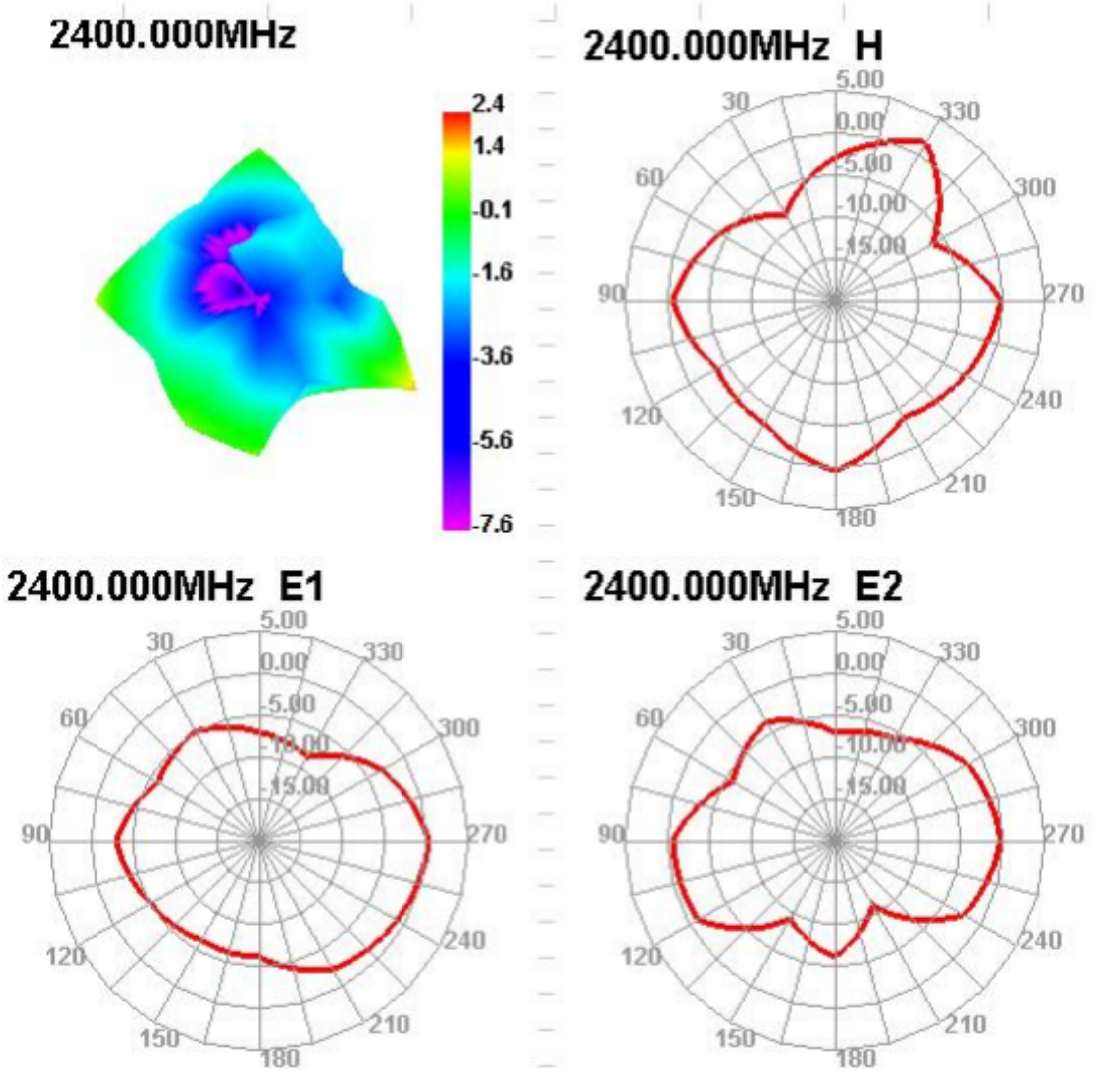


Size: 24mm x 14mm

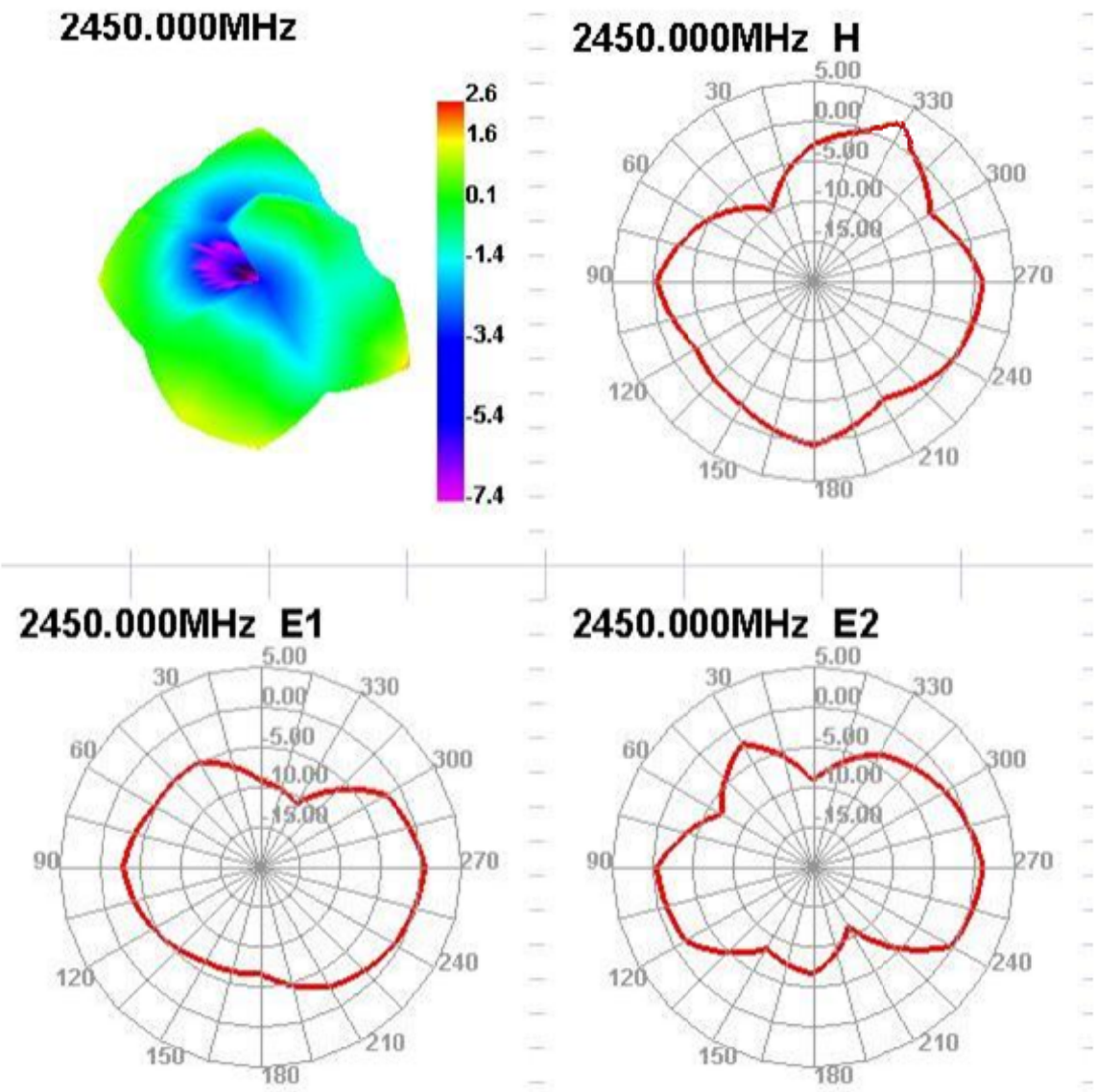
II. Matching Circuit



III. Passive antenna diagram

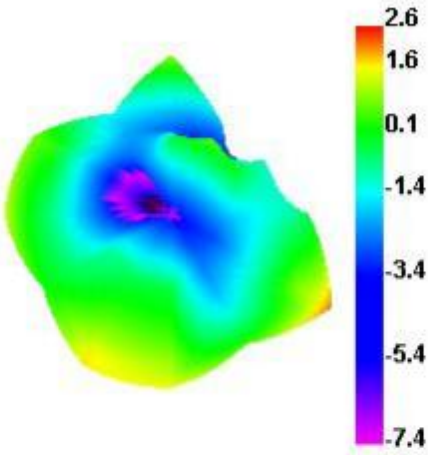


III. Passive antenna diagram

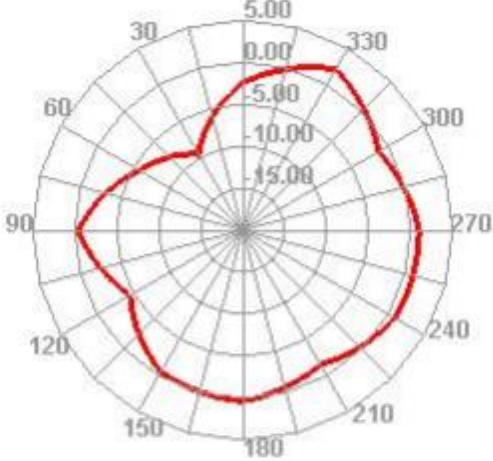


III. Passive antenna diagram

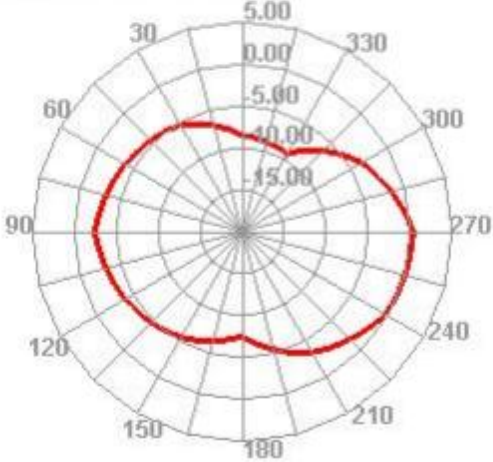
2500.000MHz



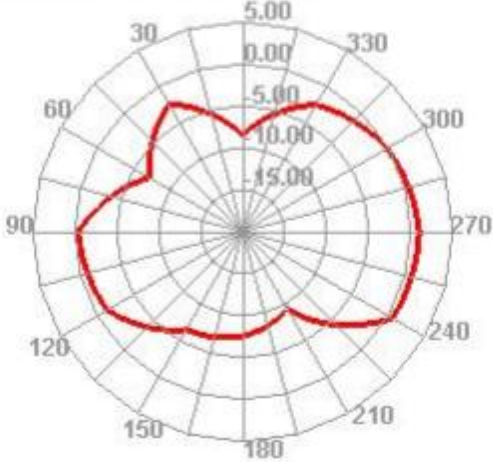
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



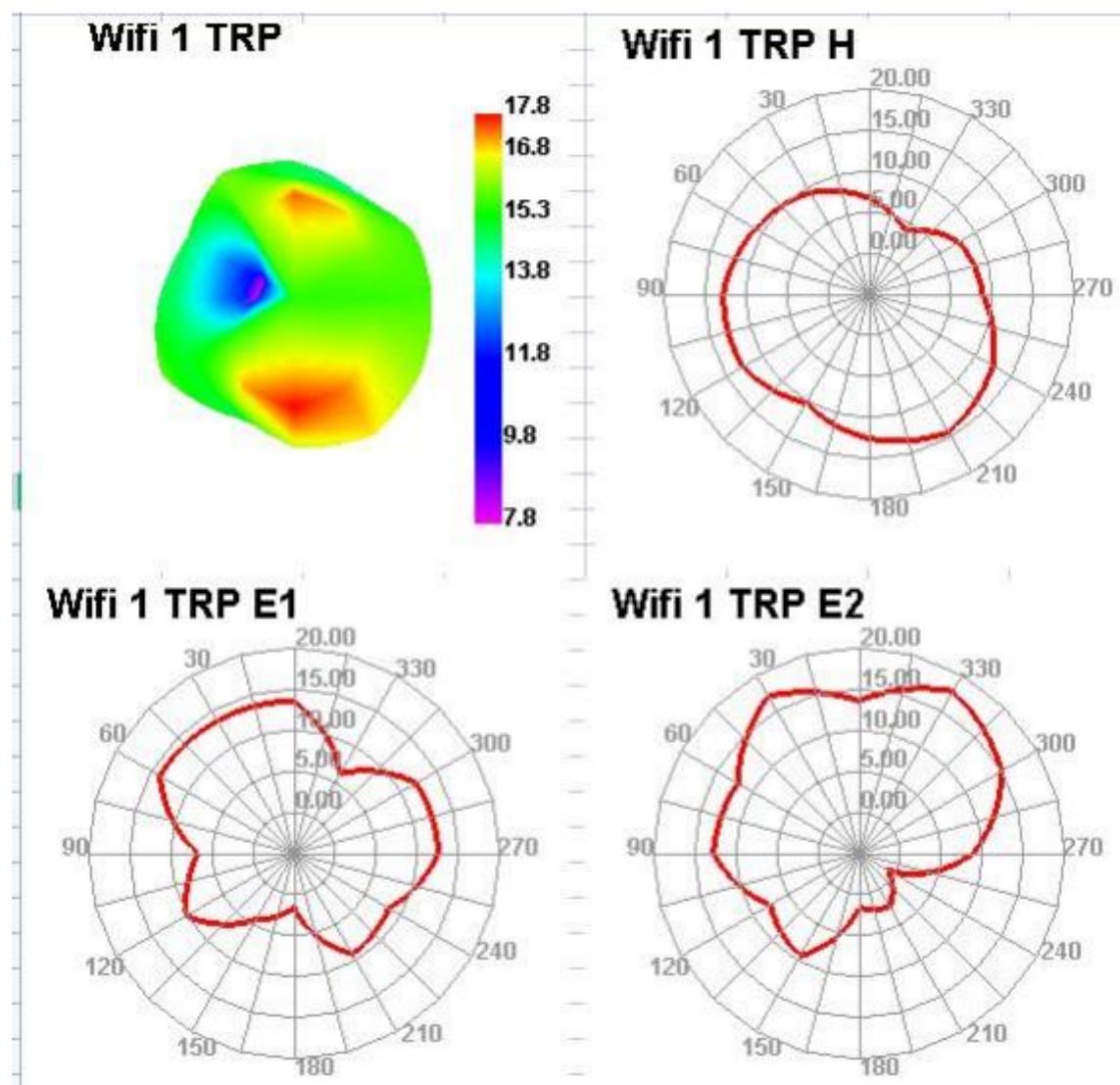
IV. Passive gain efficiency of antenna

Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.26	2.43
2410	45.38	2.31
2420	44.35	2.19
2430	45.52	2.28
2440	45.65	2.12
2450	51.07	2.56
2460	53.81	2.67
2470	56.08	2.7
2480	53.56	2.47
2490	54.36	2.46
2500	56.98	2.64

V. Antenna active testing data

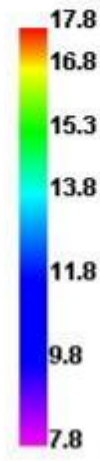
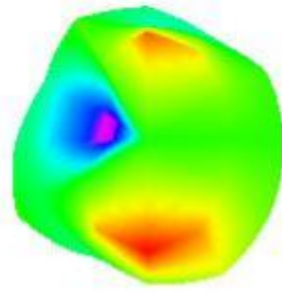
	Band	TRP/TIS	L	M	H
2.4G	11b(11M)	TRP	10.80	10.75	10.62
		TIS			-82.23
	11g(54M)	TRP	9.91	9.65	9.58
		TIS			-70.08
	11n(MCS7)	TRP	9.47	9.55	9.85
		TIS			-62.84

VI11b. Active map

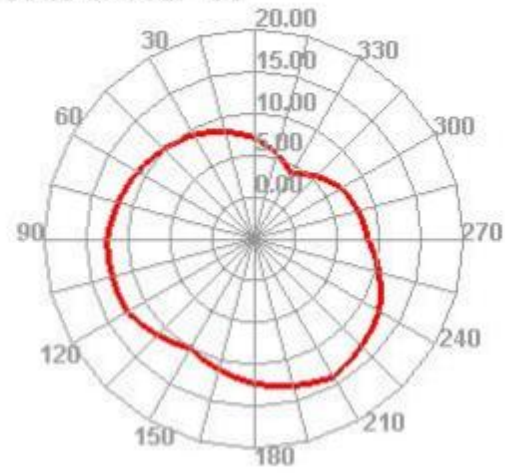


VI11b. Active map

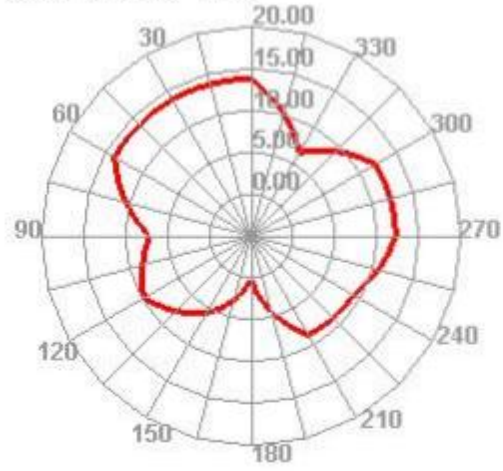
Wifi 6 TRP



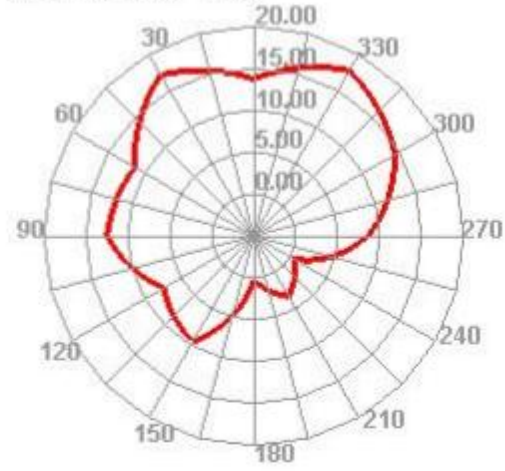
Wifi 6 TRP H



Wifi 6 TRP E1

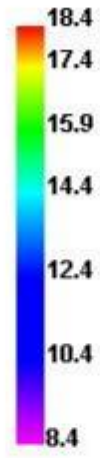
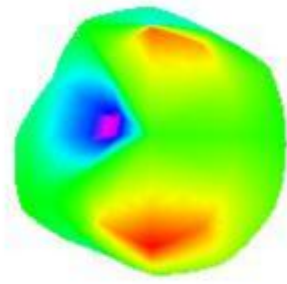


Wifi 6 TRP E2

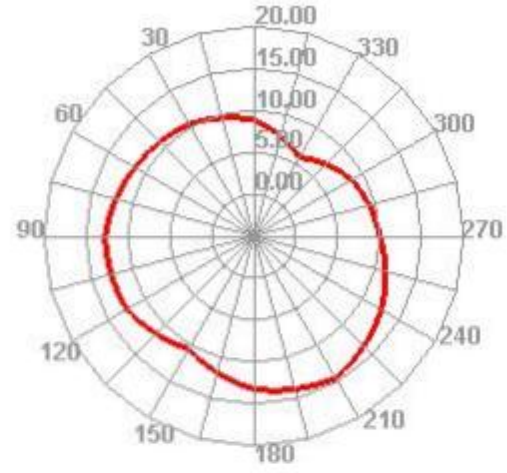


VI11b. Active map

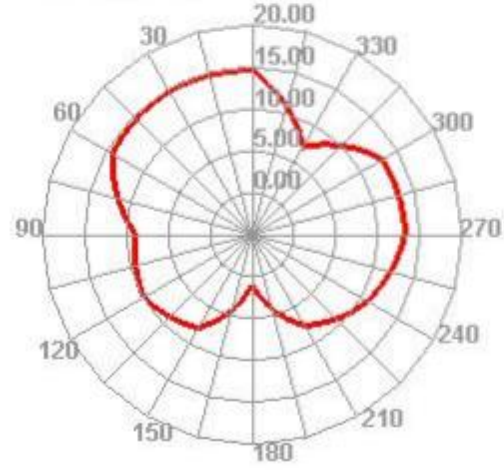
Wifi 13 TRP



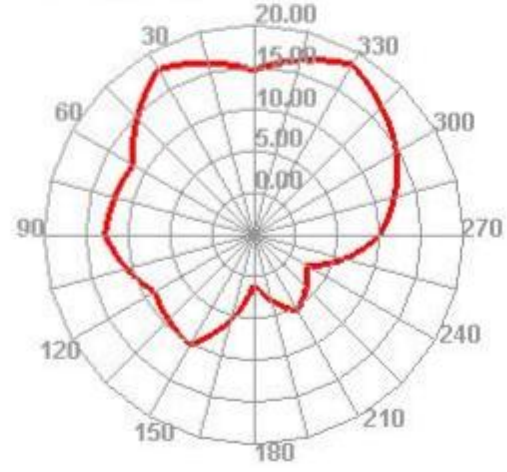
Wifi 13 TRP H



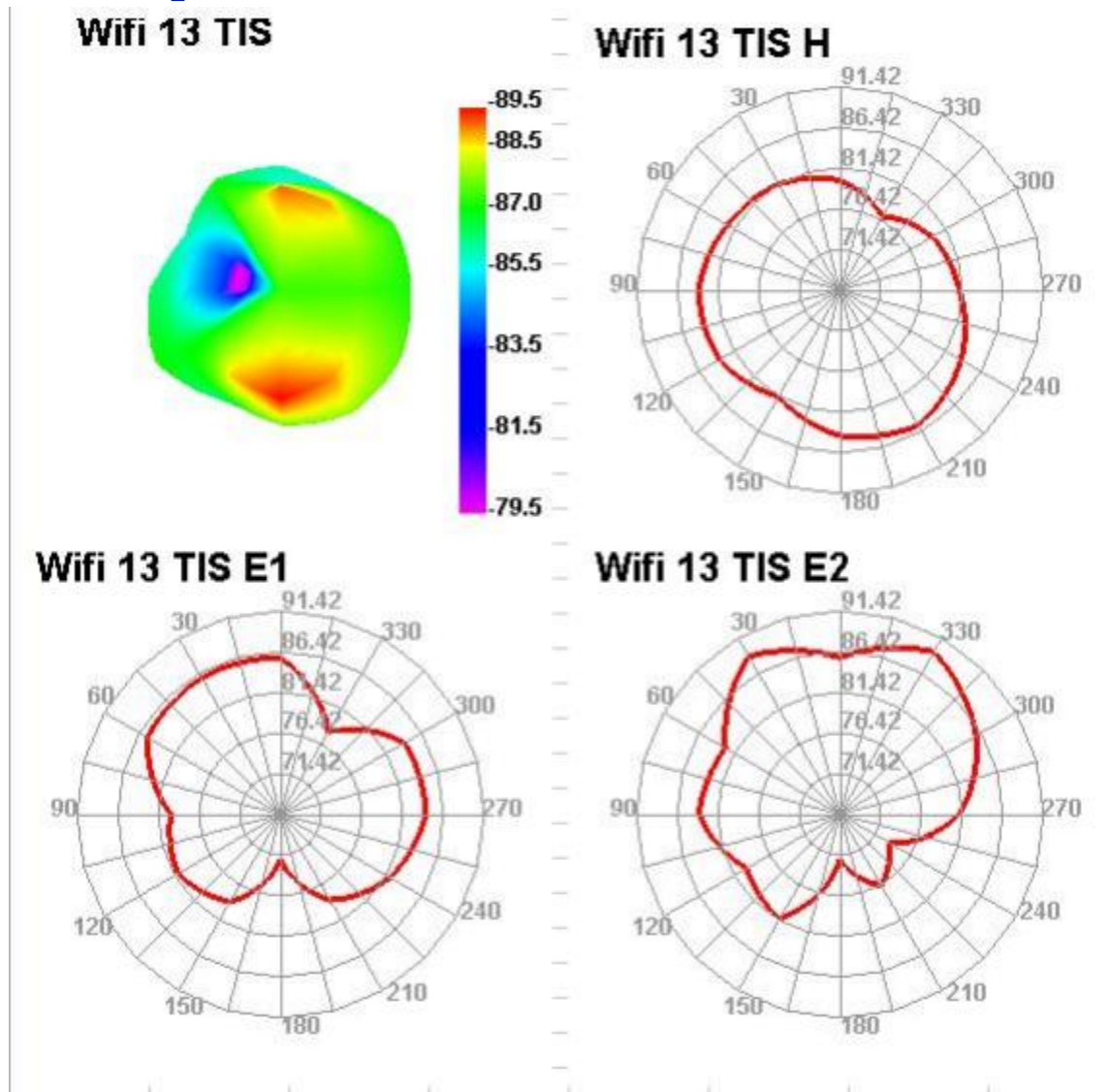
Wifi 13 TRP E1



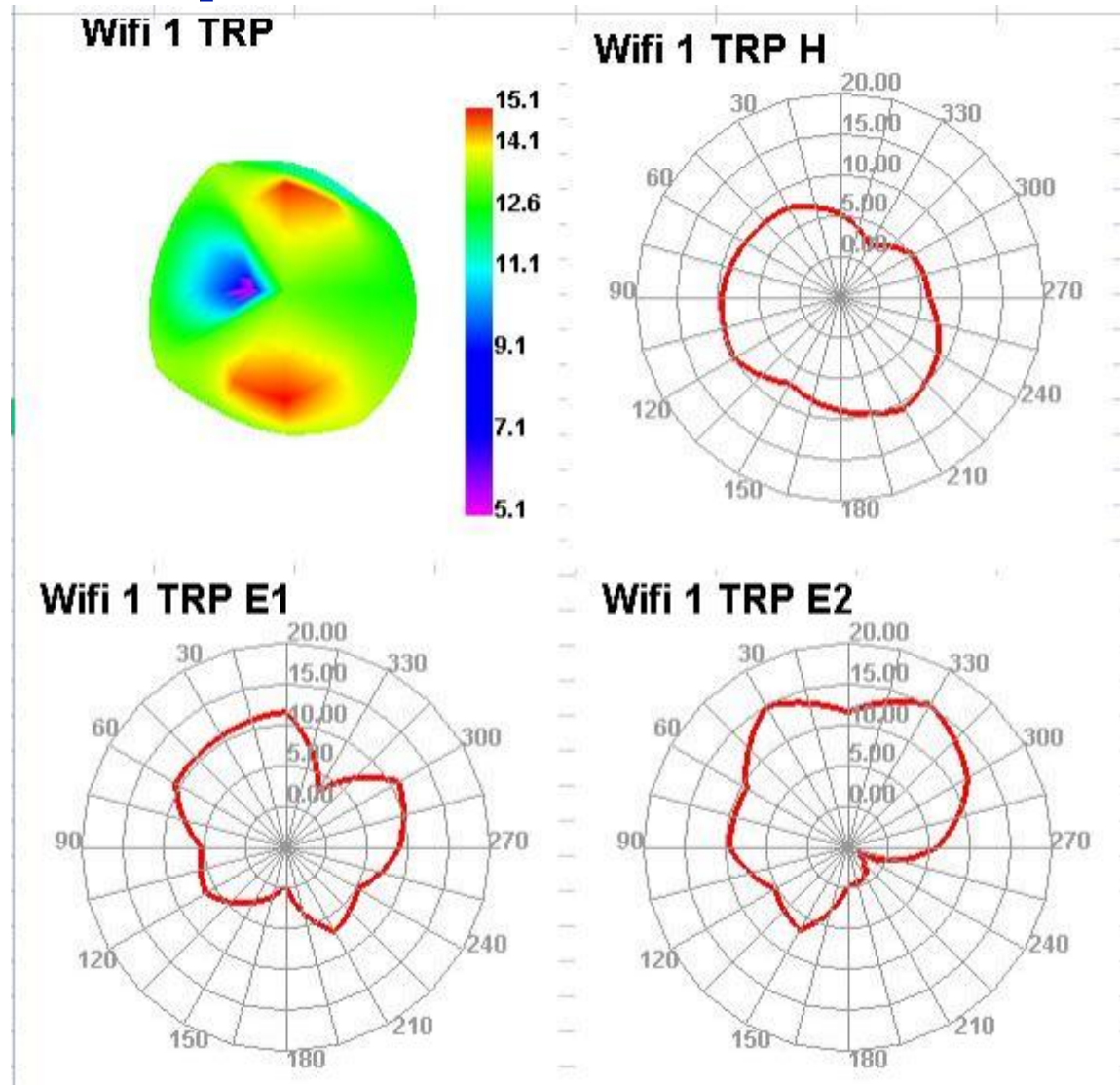
Wifi 13 TRP E2



VI11b. Active map

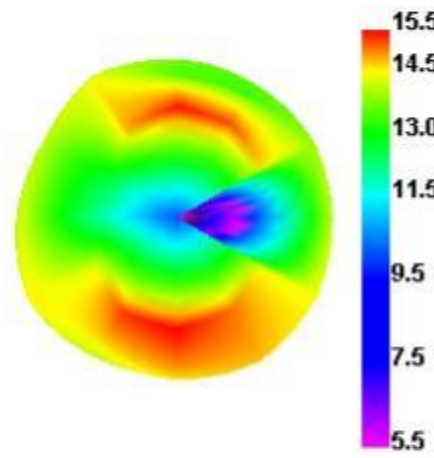


VII11g. Active map

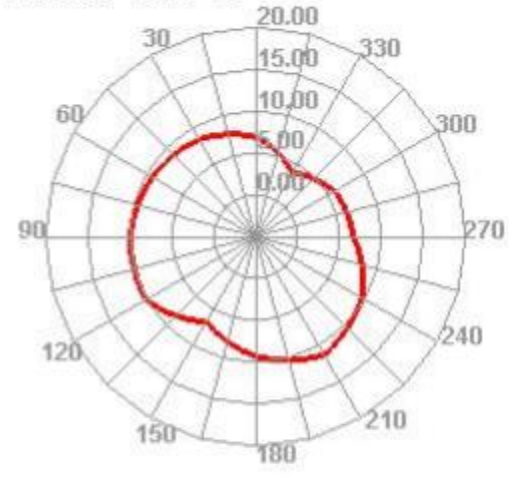


VII11g. Active map

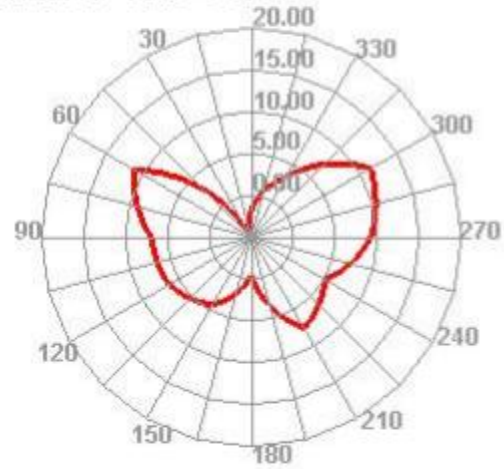
Wifi 6 TRP



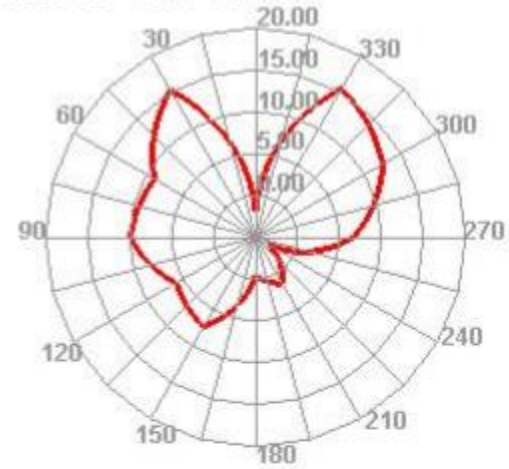
Wifi 6 TRP H



Wifi 6 TRP E1

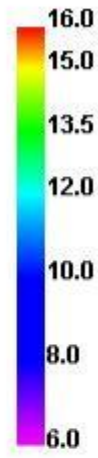
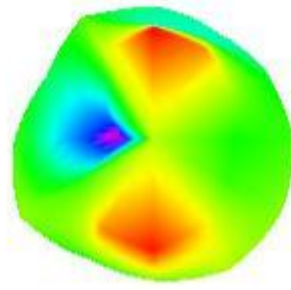


Wifi 6 TRP E2

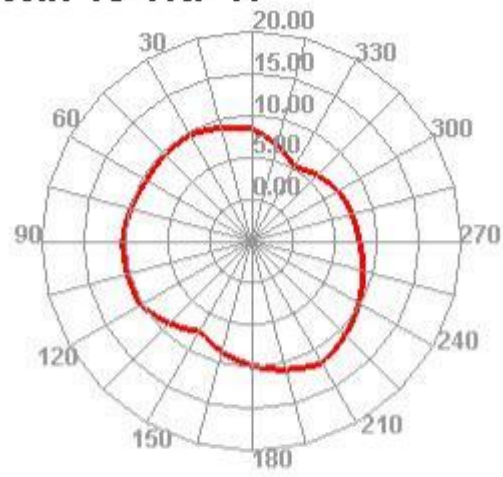


VII11g. Active map

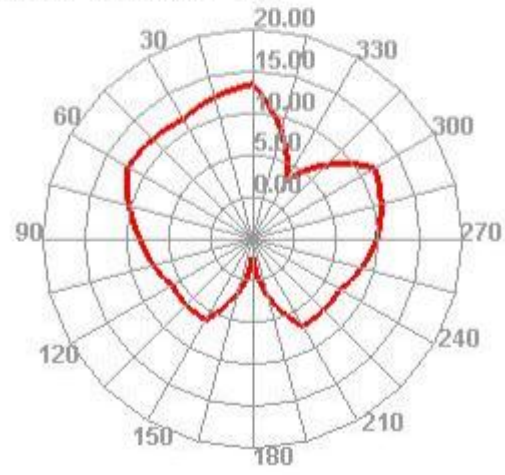
Wifi 13 TRP



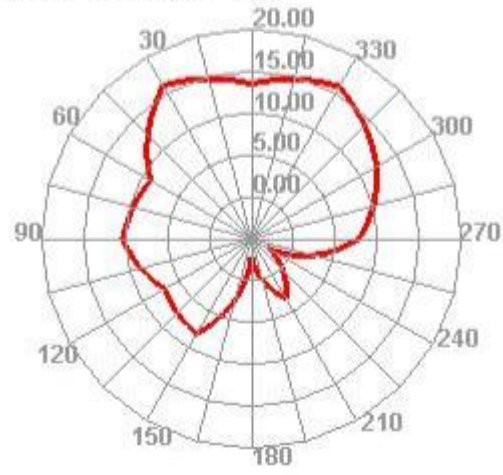
Wifi 13 TRP H



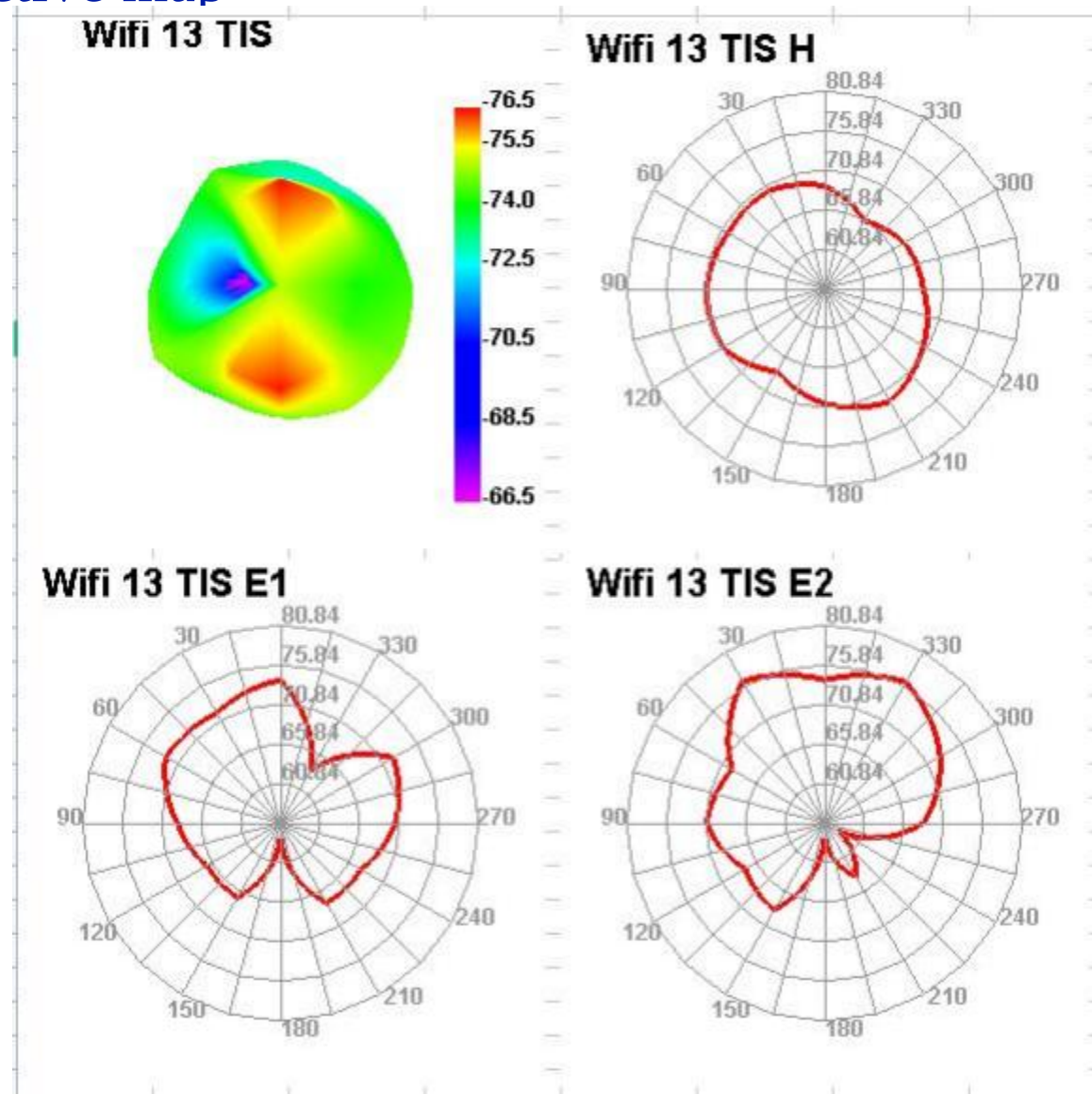
Wifi 13 TRP E1



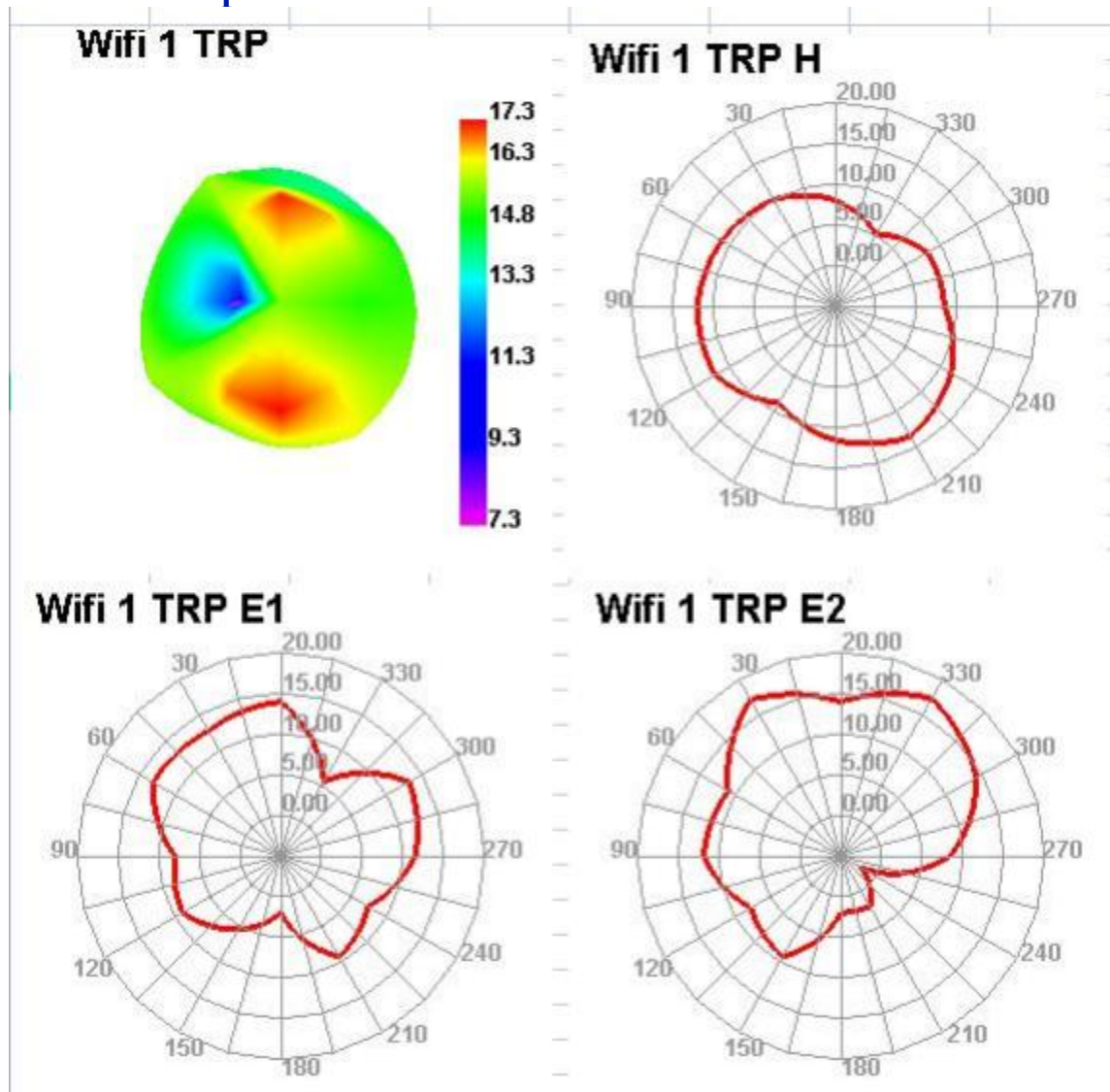
Wifi 13 TRP E2



VII11g. Active map

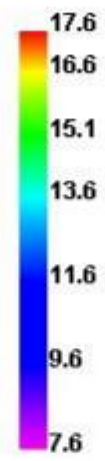
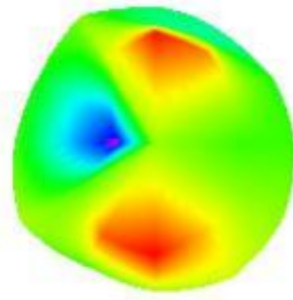


VIII11n. Active map

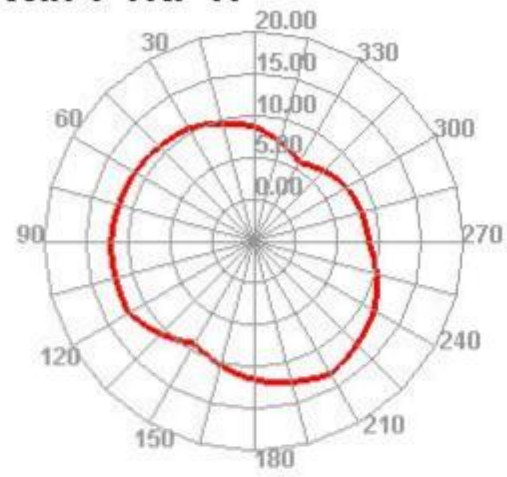


VIII11n. Active map

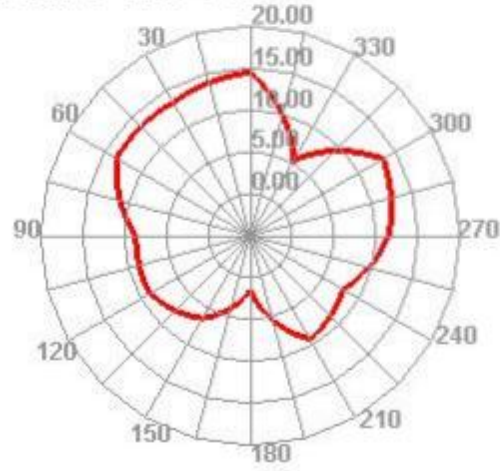
Wifi 6 TRP



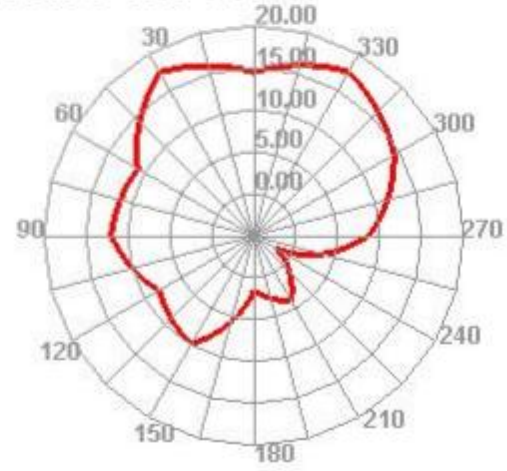
Wifi 6 TRP H



Wifi 6 TRP E1

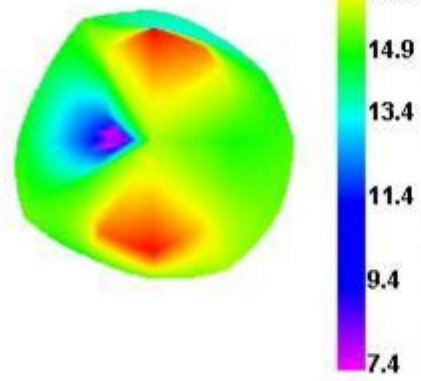


Wifi 6 TRP E2

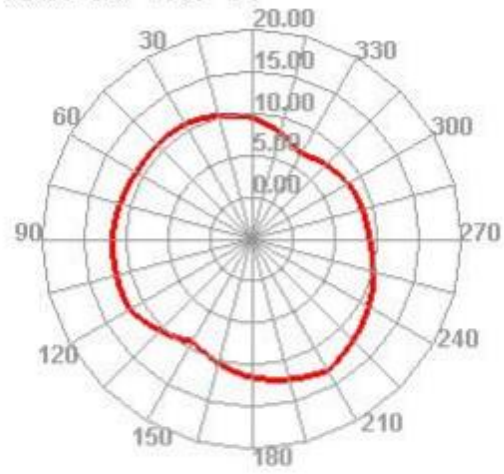


VIII11n. Active map

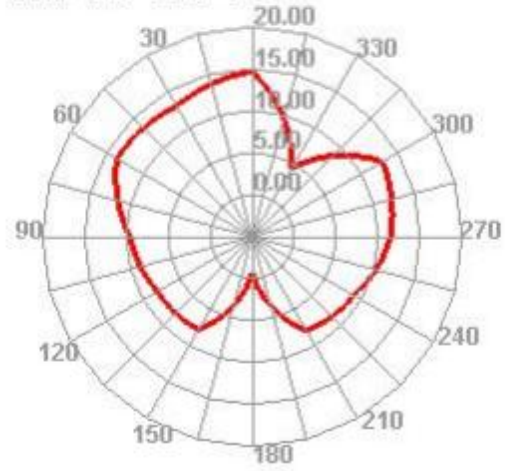
Wifi 13 TRP



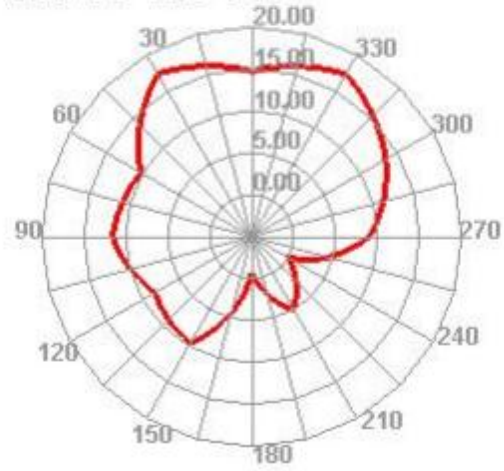
Wifi 13 TRP H



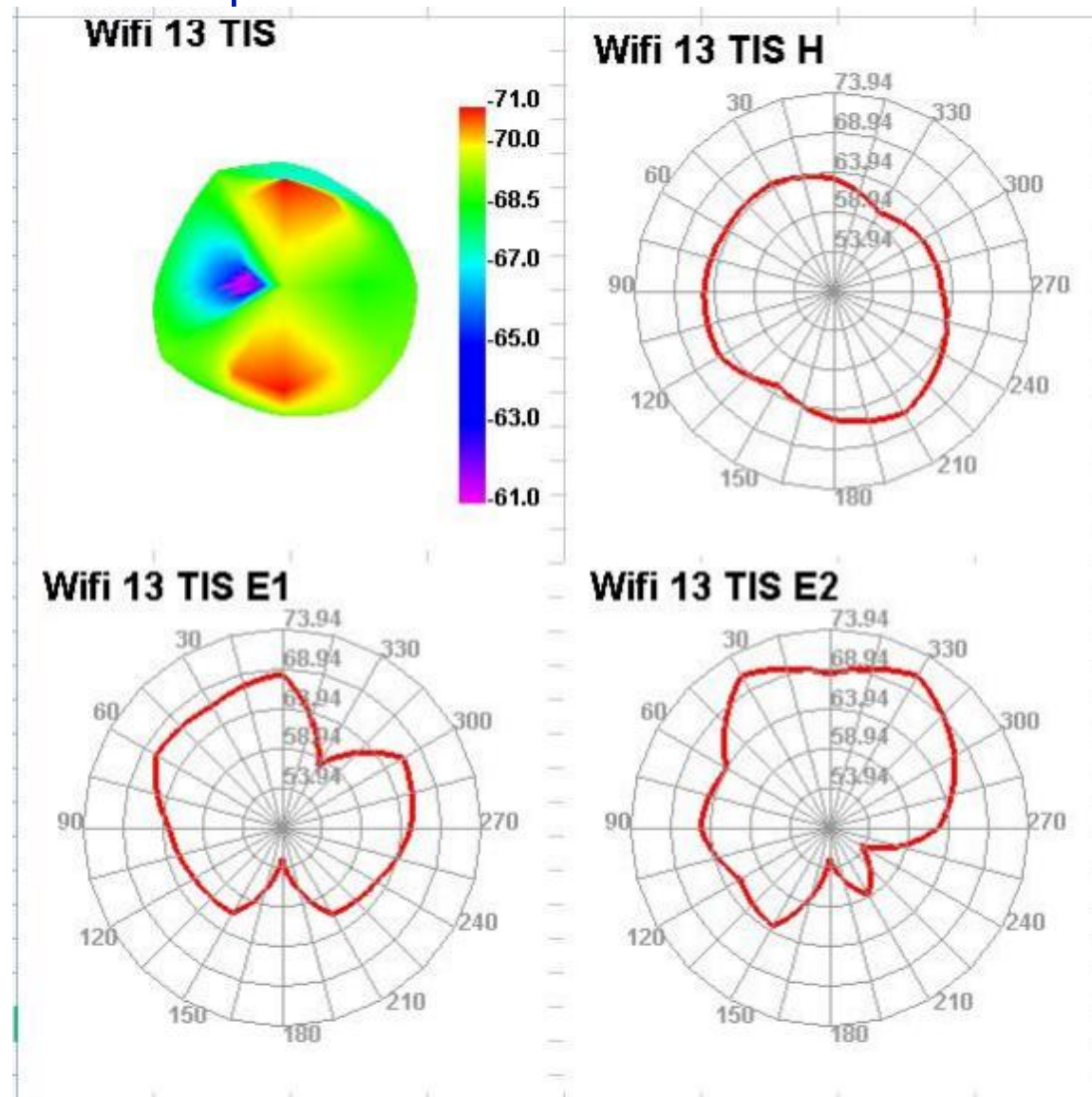
Wifi 13 TRP E1



Wifi 13 TRP E2



VIII11n. Active map



IX. Remark

X. Antenna manufacturer

corporate name: ShenzhenHaotiancheng Wireless
Technology Co., Ltd

Company address: Building B, Building 505, XinleiOu
Electronics Factory, Zone 71, Xingdong Community,
Xin'an Street, Bao'an District, Shenzhen City,
China