

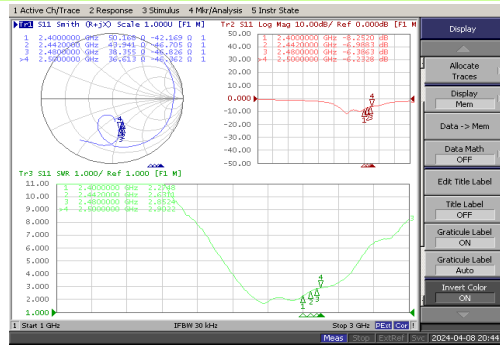
# Antenna RF test report for HIS project

The main purpose of this report: Whole antenna performance test

The main conclusion of this report:

Key points to note in this report:

## Antenna impedance parameters test condition



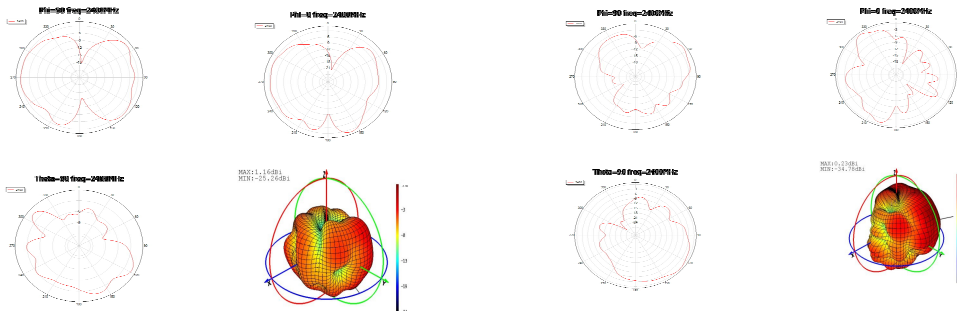
## Main board conduction

Channel	TX	RX
CH 0	11	-93
CH 39	11	-93
CH 78	10.5	-93

## Antenna passive efficiency test (with 3D&2D direction chart)

frequency MHz	free		
	Gain (dBi) freedom	Efficiency (%) Freedom	Efficiency (%) Freedom
2400	1.16	-5.33	29.34
2410	1	-5.57	27.73
2420	0.94	-5.7	26.92
2430	0.76	-5.84	26.06
2440	0.4	-6.12	24.42
2450	0.12	-6.01	25.06
2460	-0.14	-6.02	24.99
2470	-0.48	-6.07	24.7
2480	-0.51	-5.85	26.01
2490	-0.77	-5.81	26.23
2500	-1.14	-5.86	25.95
average	0.12	-5.83	26.13

frequency MHz	head		
	Gain (dBi) freedom	Efficiency (%) Freedom	Efficiency (%) Freedom
2400	0.23	-6.52	22.31
2410	0.06	-6.84	20.72
2420	0.12	-6.94	20.22
2430	0.01	-7.13	19.35
2440	-0.09	-7.37	18.31
2450	-0.13	-7.29	18.67
2460	-0.19	-7.37	18.33
2470	-0.15	-7.39	18.23
2480	-0.11	-7.09	19.55
2490	-0.25	-6.88	20.5
2500	-0.55	-6.92	20.35
average	-0.10	-7.07	19.69



Complete machine active test data 3D field pattern/apple chart

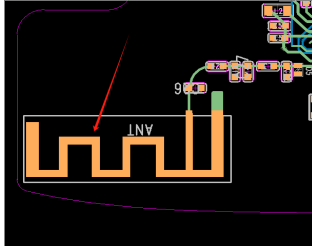
free	Channel	FRP (dBm)	TIS (dBm)	head	Channel	FRP (dBm)	TIS (dBm)
	CH 0	8.04	-91.4		CH 0	7.46	-91.05
	CH 39	7.78	-92.48		CH 39	7.42	-91.75
	CH 78	8.02	-92.18		CH 78	7.67	-91.66

Antenna type: PCB Antenna

Antenna model: ANT-6F1B

Antenna manufacturer: Shenzhen Xin Min quan precision circuit co., LTD

Antenna diagram:



Antenna size:

