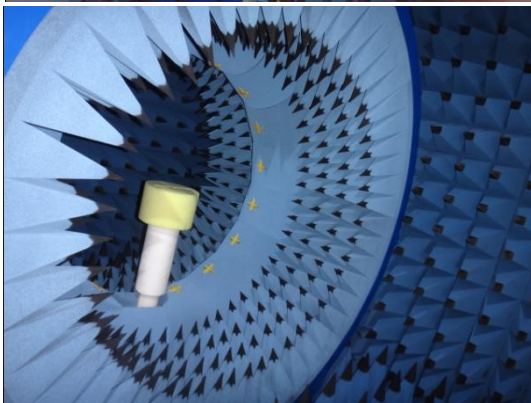
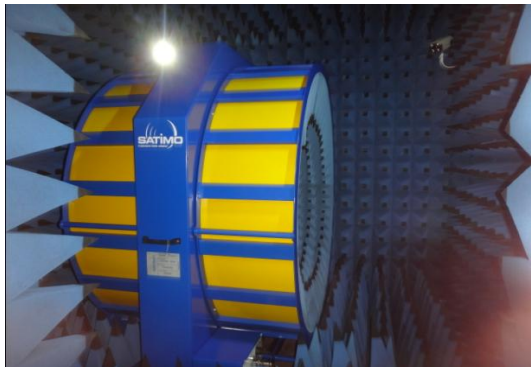


Antenna Test Report



Costomer name	JI JIA	Project name	CG6
Band	WIFI:2.4G	MD Type	Shrapnel
RF Enginner	LIU	MD Enginner	DUQIANG
antenna Type	PIFA	Date	20220620



Imported from France SATIMO company StarLab 3d laboratory,
can accurate、rapid test communications terminal products .such
as mobile phones, PC of TRP, TIS, efficiency, gain, apple figure,
directional diagram

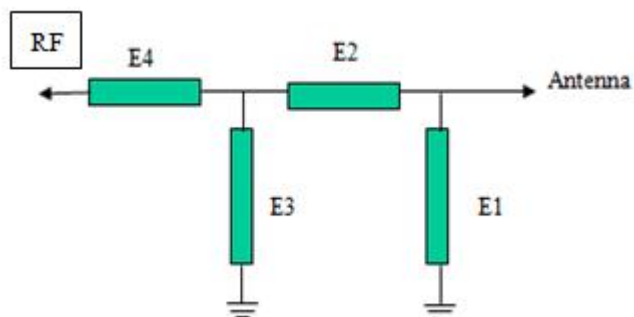
Report version summary

Edition	Date	Content overview
V1	2022-06-20	Antenna test report

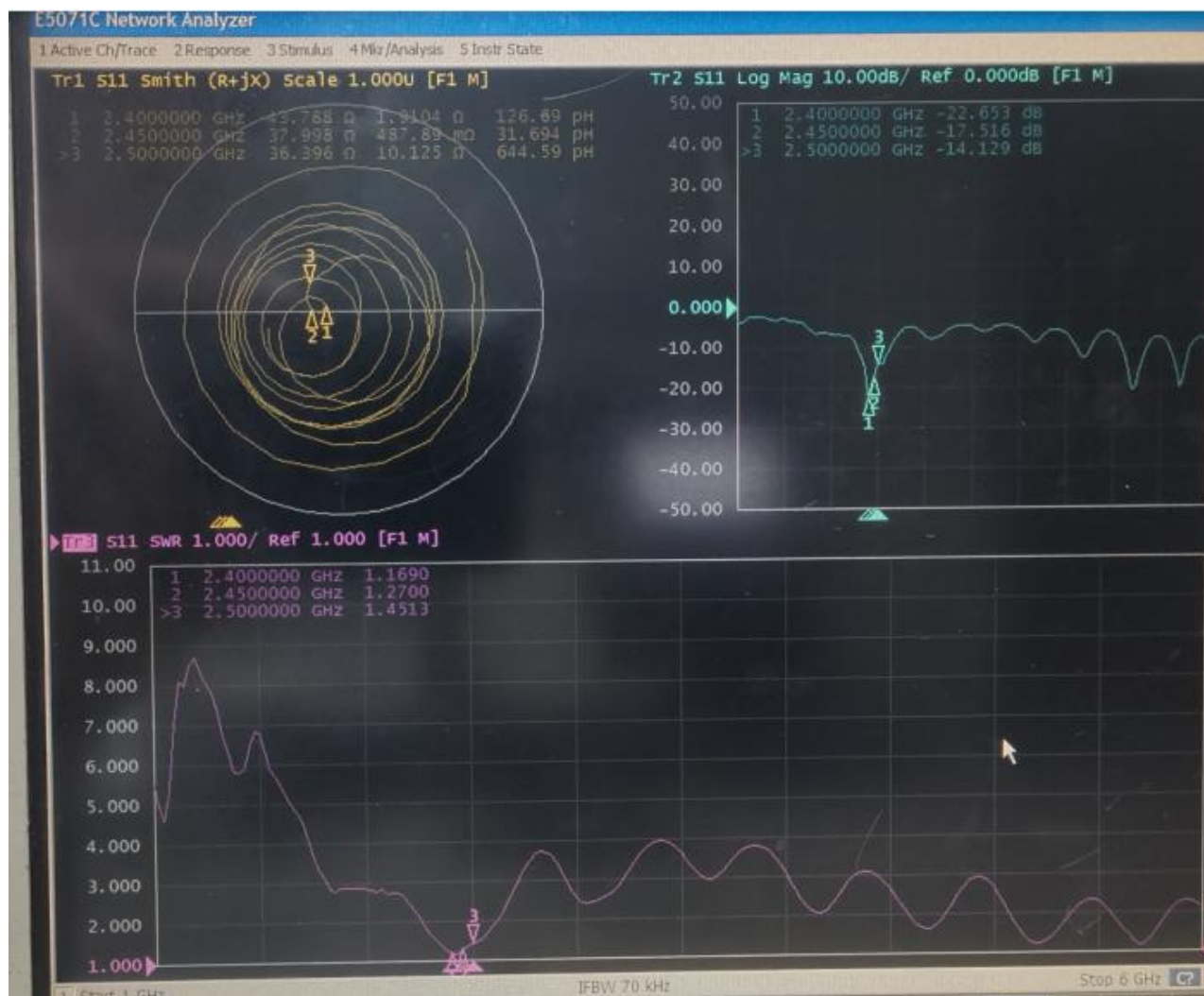
Main antenna matching circuit

Element	E1	E2	E3	E4
Value	NC	0 欧	NC	0 欧

Our company has not made changes to the main antenna matching circuit!



2.4G passive standing wave

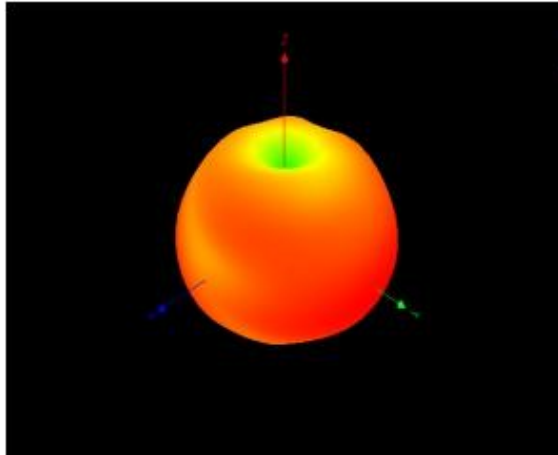


2.4G efficiency gain

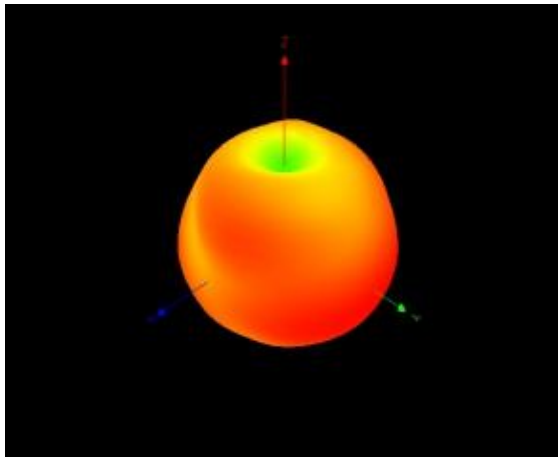
频率/frequency	效率/efficiency	增益/gain
2400000000MHz	56%	-2.537642167dBi
2405263157MHz	55%	-2.576126033dBi
2410526315MHz	55%	-2.631930822dBi
2415789473MHz	55%	-2.627502283dBi
2421052631MHz	55%	-2.577186007dBi
2426315789MHz	56%	-2.491878927dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2431578947MHz	56%	-2.485303562dBi
2436842105MHz	56%	-2.517623524dBi
2442105263MHz	55%	-2.594675298dBi
2447368421MHz	54%	-2.649497787dBi
2452631578MHz	54%	-2.666030047dBi
2457894736MHz	55%	-2.624029057dBi
2463157894MHz	55%	-2.558688746dBi
2468421052MHz	55%	-2.569127469dBi
2473684210MHz	55%	-2.61441073dBi
2478947368MHz	54%	-2.704741558dBi
2484210526MHz	53%	-2.751299719dBi
2489473684 MHz	53%	-2.75832587dBi
2494736842MHz	53%	-2.717413952dBi
2500000000MHz	54%	-2.714009432dBi

Radiation Pattern

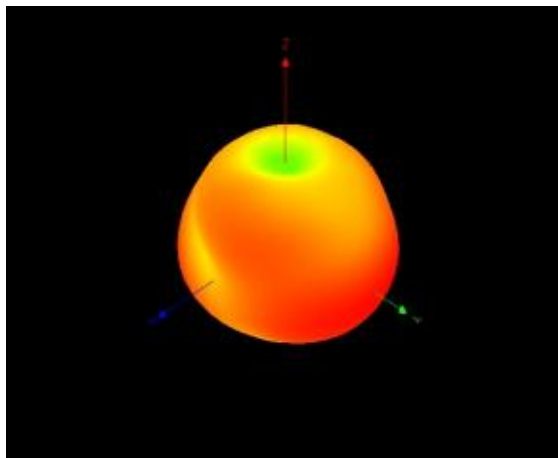
Antenna 3D Radiation Pattern



2400MHz



2450MHz



2500MHz

Motherboard conduction data:

OU Zhi tong 2#

Band	Channal	Power (dBm)	Sensitivity (dBm)	Band	Channal	Power (dBm)	Sensitivity (dBm)
2.4G B 模-11M	1	17.7	-88.0	2.4G G 模-54M	1	17.0	-76.0
	6	16.5	-87.0		6	16.5	-74.0
	11	15.5	-88.0		11	15.5	-75.0
2.4G N 模-65M	1	17.6	-72.0				
	6	16.5	-72.0				
	11	16.0	-72.0				

Ai lian 5#

Band	Channal	Power (dBm)	Sensitivity (dBm)	Band	Channal	Power (dBm)	Sensitivity (dBm)
2.4G B 模-11M	1	16.0	-89.0	2.4G G 模-54M	1	17.0	-76.0
	6	15.1	-88.0		6	15.6	-75.0
	11	14.7	-88.0		11	15.2	-75.0
2.4G N 模-65M	1	16.8	-70.0				
	6	14.2	-71.0				
	11	13.5	-72.0				

Antenna FS OTA :

OU Zhi tong 1#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.1	-82.1	2.4G G 模-54M	1	13.1	-70.1
	6	13.8	-82.0		6	13.4	-69.5
	11	13.7	-82.9		11	13.2	-69.2
2.4G N 模-65M	1	13.3	-67.2				
	6	13.7	-66.4				
	11	13.2	-66.3				

OU Zhi tong 2#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	13.9	-81.6	2.4G G 模-54M	1	13.6	-69.4
	6	13.7	-80.6		6	13.6	-68.8
	11	13.4	-81.8		11	13.7	-68.7
2.4G N 模-65M	1	13.3	-67.1				
	6	13.2	-66.5				
	11	13.0	-66.2				

Ai lian 4#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.3	-84.1	2.4G G 模-54M	1	14.4	-71.5
	6	13.7	-83.5		6	13.4	-70.8
	11	13.1	-83.3		11	13.3	-71.4
2.4G N 模-65M	1	14.0	-66.7				
	6	13.4	-65.7				
	11	12.7	-66.4				

Ai lian 5#

Band	Channal	TRP(dBm)	TIS(dBm)	Band	Channal	TRP(dBm)	TIS(dBm)
2.4G B 模-11M	1	14.6	-83.1	2.4G G 模-54M	1	13.6	-70.1
	6	13.9	-82.7		6	12.5	-69.4
	11	12.7	-81.8		11	12.7	-70.2
2.4G N 模-65M	1	13.7	-66.5				
	6	13.2	-65.5				
	11	13.0	-66.3				

[illegible]