

Serial No	Version numbe	creation date	Major modification record	author	Remark
1	RA	2022.9.28	first generation	蔡进	

This test report records the wireless performance indicators of terminal WiFi products

Test time	2022.8.27~2022.9.25
Support frequency band	2.4G 11ax 2*2 ; 5G 11ax 2*2
Hardware version	SR1021F/FS_R1A
ODM manufacture	迈腾
DDR Manufacturer and frequency	DDR uilt-in
DDR With or without spread frequency	No spread frequency
Model of prototype	SR1021F
Antenna manufacturer and model	迅达技术（香港）有限公司 (XDA0930DBB01C\XDB0903DBB01B/XDC0933DBB01A)
Software version	Realtek DEMO
Board stage	prototype
Antenna cable description	As shown in the right figure
Antenna cable description	nothing
caption	As shown in the right figure
tester	袁琪、董望生
Person in charge of RF antenna	郑仁雷、蔡进
Test conclusion	OTA OK；穿墙 OK

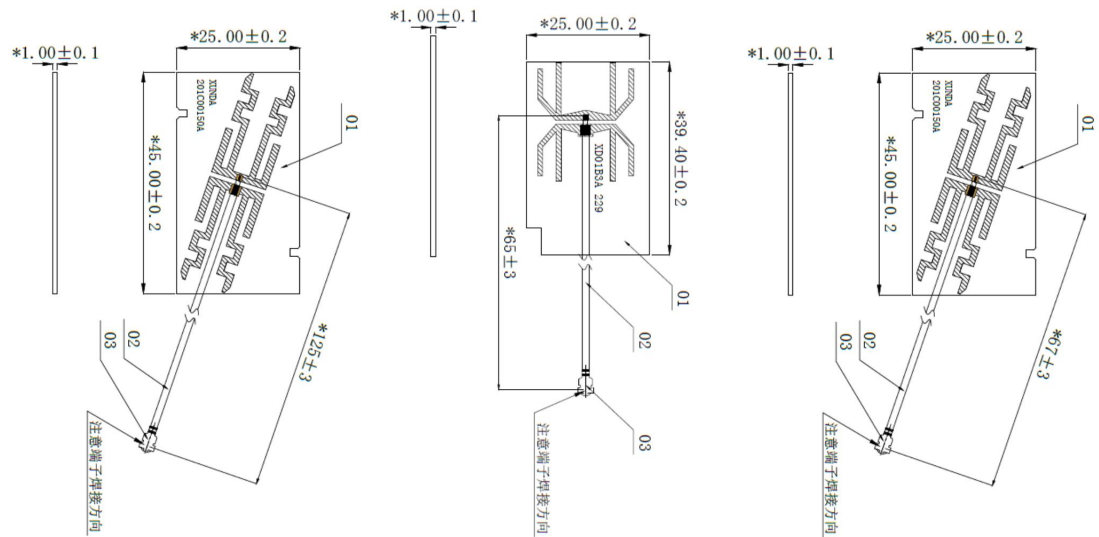
Antenna parameters	Indicator requirements	Measured index	Test conclusion
working frequency	2.4G~2.5GHz	2.4G~2.5GHz	OK
VSWR	<1.5	<1.5	OK
same frequency isolation	<-20dB	<-20dB	OK
Inter-frequency isolation	<-23dB	<-25dB	OK

efficiency	>60%	>65%	OK
gain	2.4GHz:2.4dBi 2.42GHz:2.5dBi 2.44GHz:2.5dBi 2.46GHz:2.4dBi 2.48GHz:2.4dBi 2.5GHz:2.3dBi	>2dBi	OK

WiFi

Antenna parameters	Indicator requirements	Measured index	Test conclusion
working frequency	5.1G~5.9GHz	5.1G~5.9GHz	OK
VSWR	<2.0	<2	OK
same frequency isolation	<-20dB	<-25dB	OK
Inter-frequency isolation	<-23dB	<-25dB	OK
efficiency	>50%	>55%	OK
Gain	5.1GHz:4.3dBi 5.5GHz:4.2dBi 5.8GHz:4.2dBi	>4dBi	OK

Antenna Dimensions

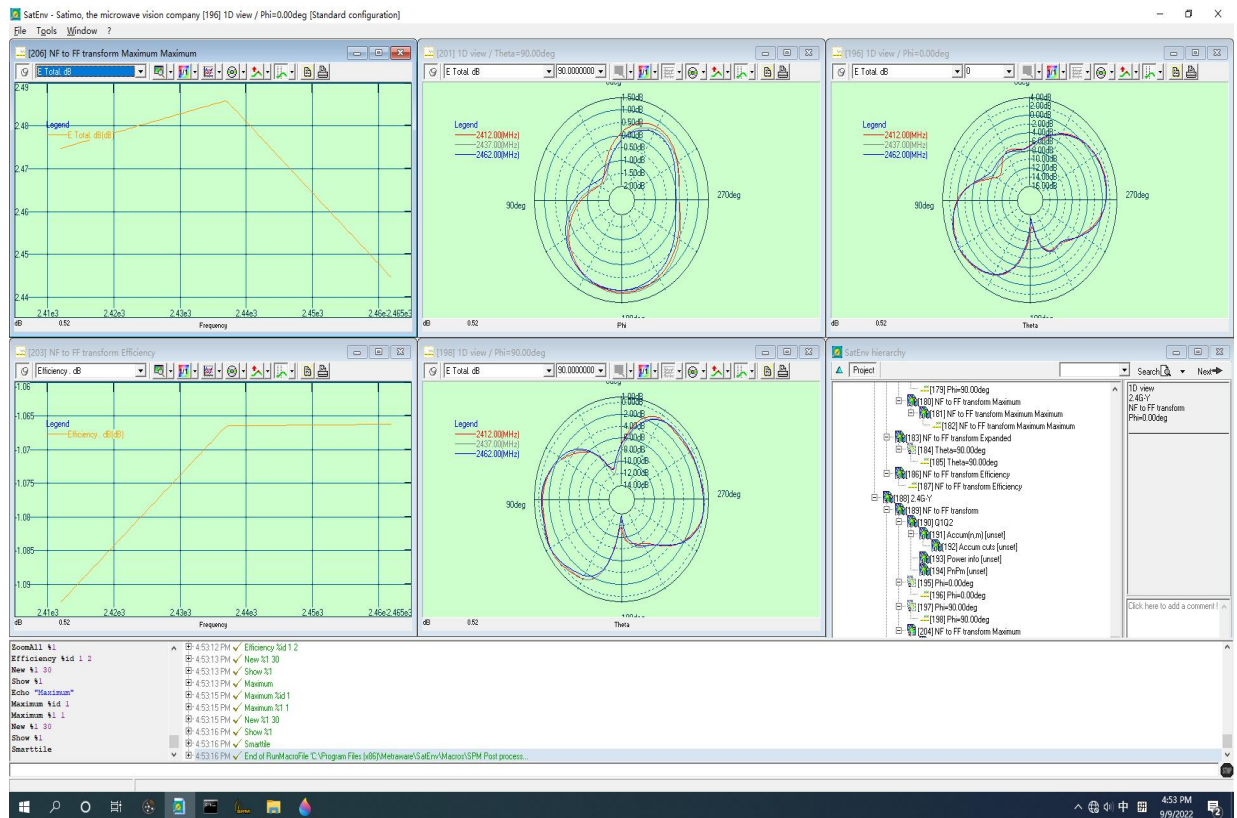


1. VSWR, Return Loss, Isolation

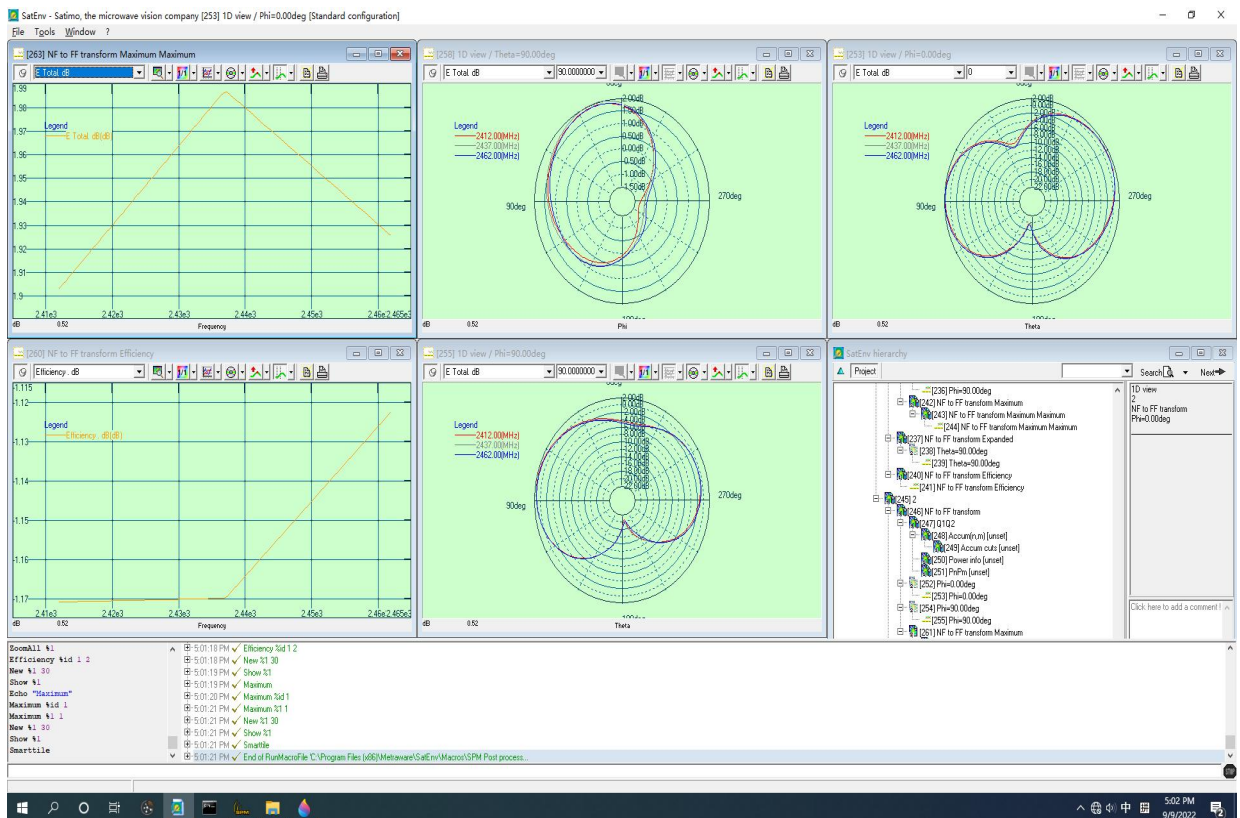




2. Gain, efficiency, pattern, out-of-roundness

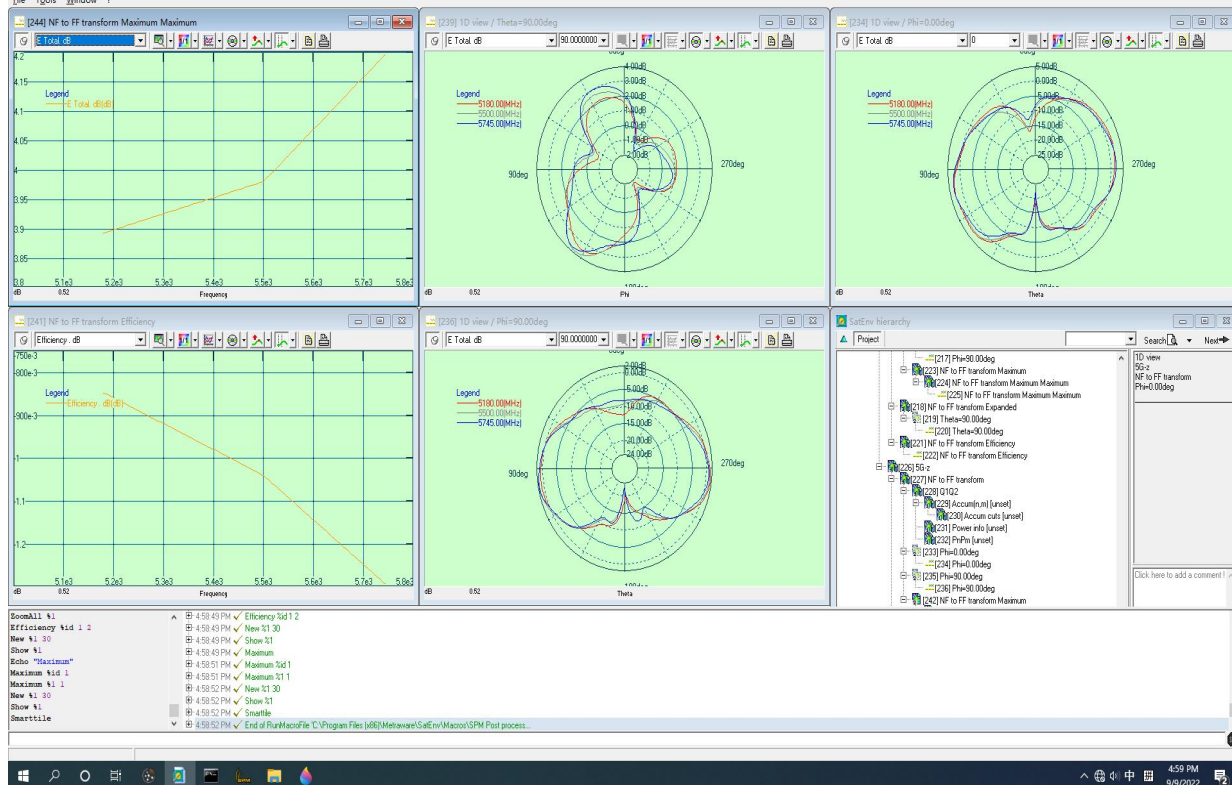


2.4G ANT0



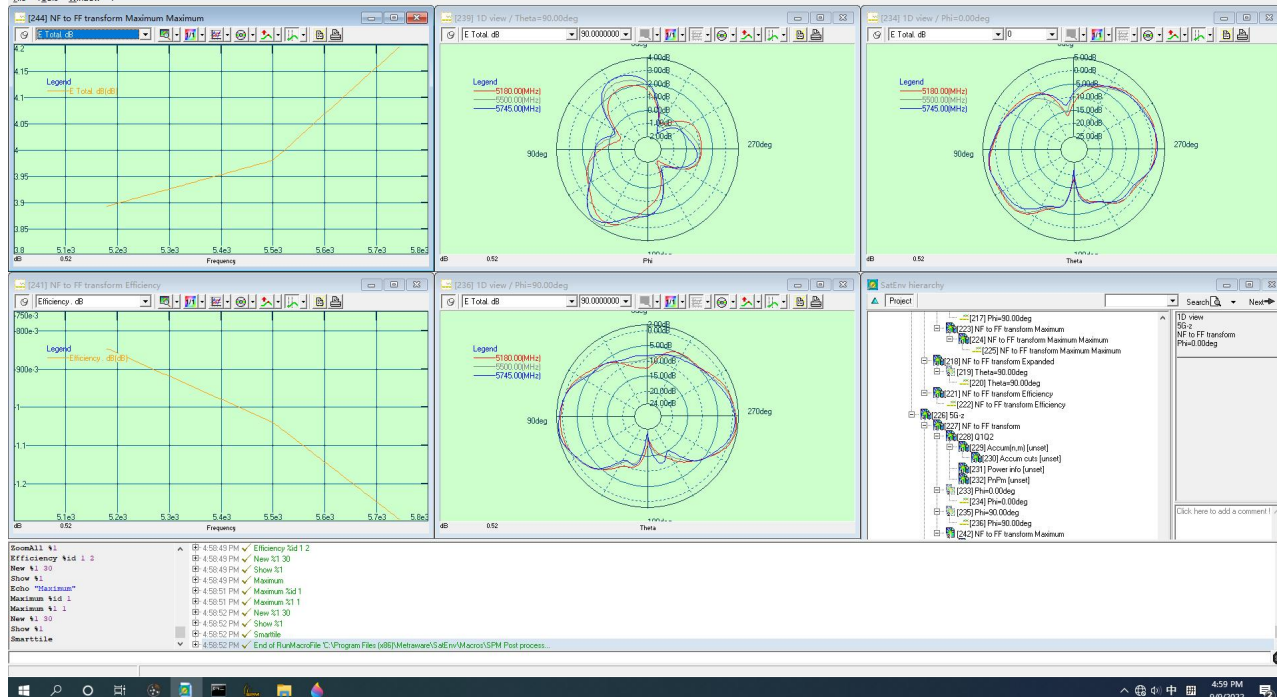
2.4G ANT1

SatEnv - Satimo, the microwave vision company [234] 1D view / Phi=0.00deg [Standard configuration]
File Tools Window ?

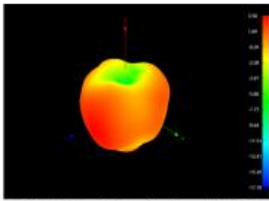


5G ANT0

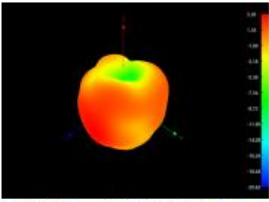
SatEnv - Satimo, the microwave vision company [234] 1D view / Phi=0.00deg [Standard configuration]
File Tools Window ?



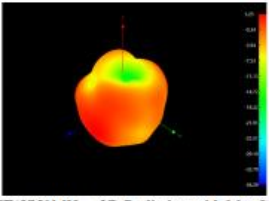
5G ANT1



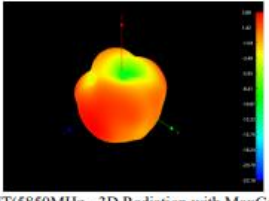
ANT(5150MHz - 3D Radiation with MaxGain)



ANT(5350MHz - 3D Radiation with MaxGain)



ANT(5750MHz - 3D Radiation with MaxGain)



ANT(5850MHz - 3D Radiation with MaxGain)

频点	增益	效率
5150MHz	3.58dBi	67.92%
5350MHz	3.36dBi	64.86%
5750MHz	3.25dBi	64.71%
5850MHz	3.88dBi	75.68%

5G ANT3