

Antenna Test Report

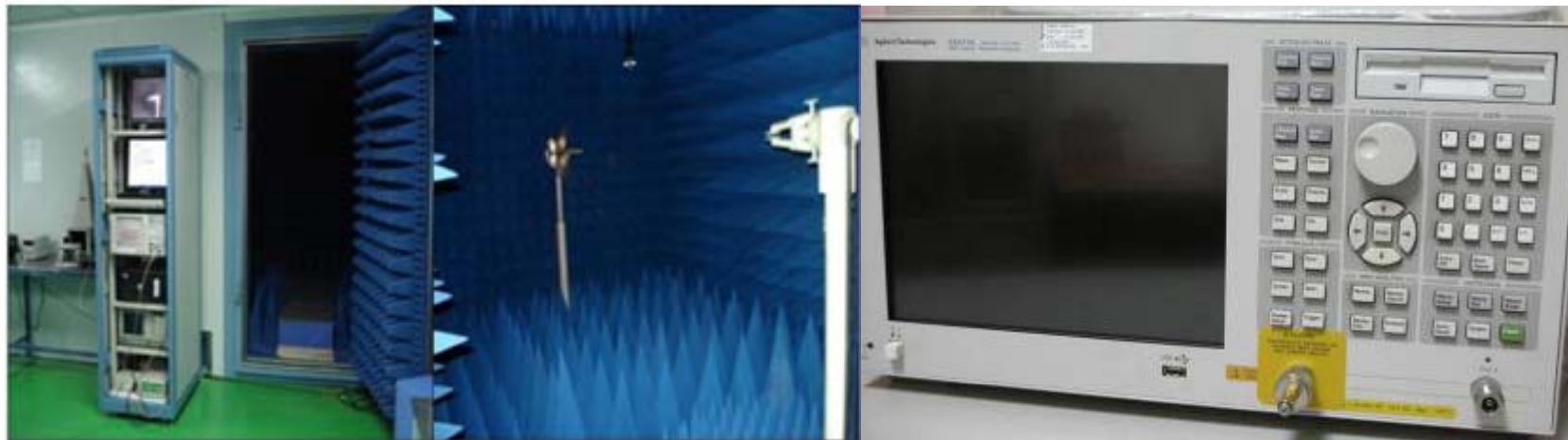
Model: TC5583F

Date: 2022. 08. 16



testing environment

- The microwave anechoic chamber of ETS test system is used for antenna characteristics. The size of the anechoic chamber is 7m x 4m x 3m, and the test frequency is 700MHz---6GHz.
- S11 Test use Test use Agilent Agilent E5071B network analyzer



Microwave anechoic chamber

Agilent E5071B network analyzer



Project Description

- Customer Name:Lianhe Tongchuang
- Customer case No:TC5583F
- Antenna band:GSM+ WCDMA B2/B5/B4
- FDD B2/B4/B5/B66/B12/B17 +WIFI/BT+GPS



Antenna



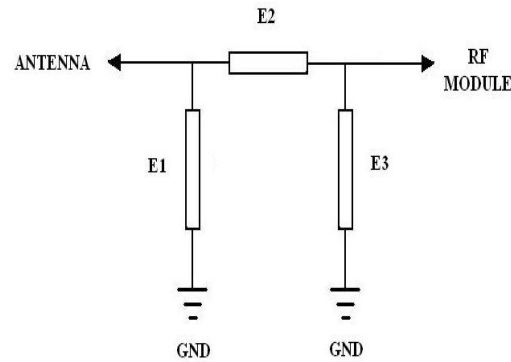
Antenna Solutions



Shenzhen Qinxin Technology Co., Ltd



matching circuit



Main antenna		Diversity antenna		Three in one antenna	
Element	Value	Element	Value	Element	Value
E1	18NH	E1	3.9NH	E1	
E2		E2		E2	
E3		E3		E3	



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
GSM	900	1	27	
		62		
		124	26.7	-101.7
DCS	1800	512	24.7	
		698		
		885	25	-103



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
GSM	850	128	26.5	
		190		
		251	26.8	-102.9
PCS	1900	512	25	
		661		
		810	24.7	-102.8



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
WCDMA	B2	9662	17.8	
		9800		
		9938	17.4	-104.4
WCDMA	B5	4357	17	
		4410		
		4458	17.2	-104.2



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
WCDMA	B4	1312	17	
		1413		
		1513	17.4	-104.7



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
FDD	B2	18650	17.8	
		18900		
		19150	17.5	-92.6
FDD	B4	20000	17	
		20175		
		20350	17.4	-92.5



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
FDD	B5	20450	17	
		20525		
		20600	17.8	-90.5



Antenna darkroom 3D test data

Customer :		Lianhe Tongchuang		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
FDD	B66	132022	17	
		132322		
		132622	17.2	-92.6



Antenna darkroom 3D test data

Customer :		/		
Model :		TC5583F		
Test Condition :				
Band		Channel	TRP	TIS
FDD	B12	23060	14.8	
		23095		
		23130	15	-90.7
FDD	B17	23780	15	
		23790		
		23800	15.1	-91

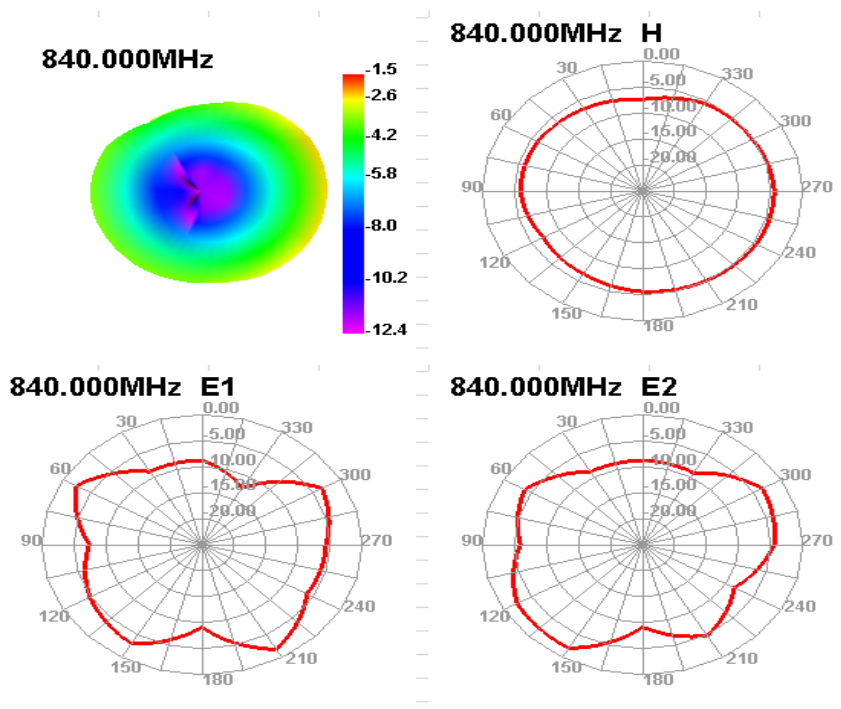


GPS :

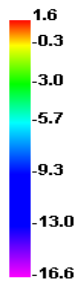
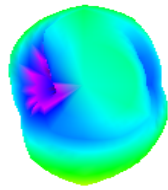


TC5583F Antenna gain value

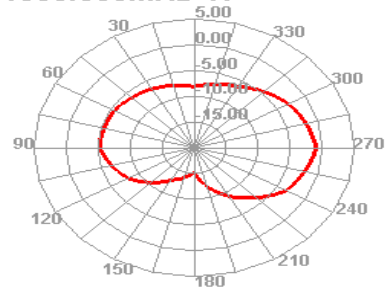
GSM850	0.31dBi
PCS	0.57dBi
W850	0.31dBi
W1700	0.54dBi
W1900	0.57dBi
B2	0.57dBi
B4	0.54dBi
B5	0.31dBi
B66	0.54dBi
B12	0.31dBi
B17	0.31dBi
BT	0.72dBi
WIFI	0.72dBi
GPS	0.46dBi



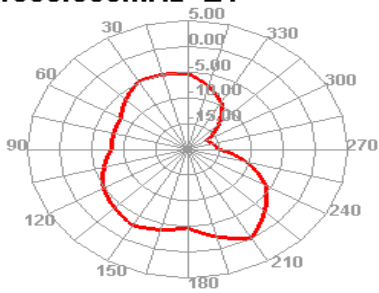
1880.000MHz



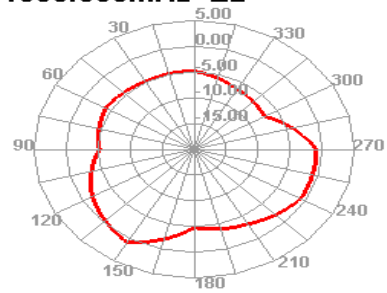
1880.000MHz H



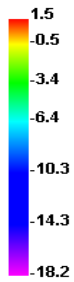
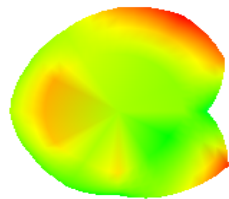
1880.000MHz E1



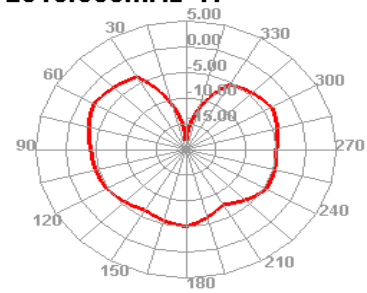
1880.000MHz E2



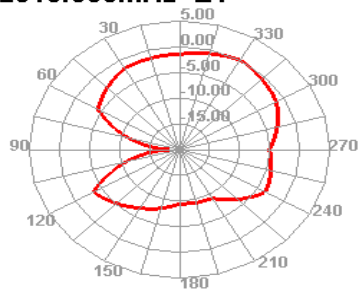
2310.000MHz



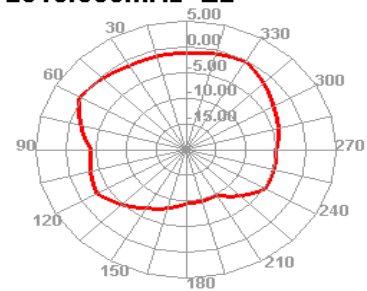
2310.000MHz H



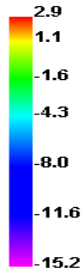
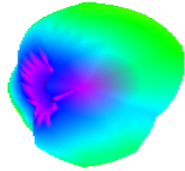
2310.000MHz E1



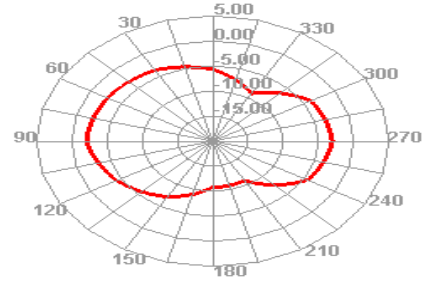
2310.000MHz E2



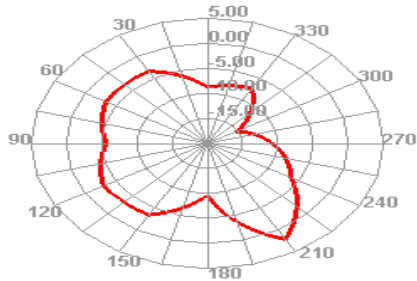
2370.000MHz



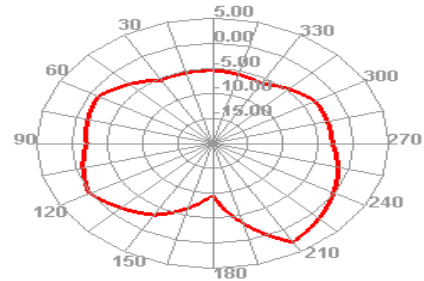
2370.000MHz H



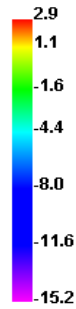
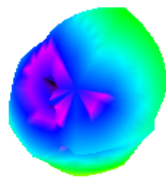
2370.000MHz E1



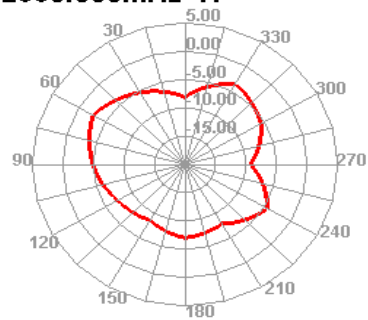
2370.000MHz E2



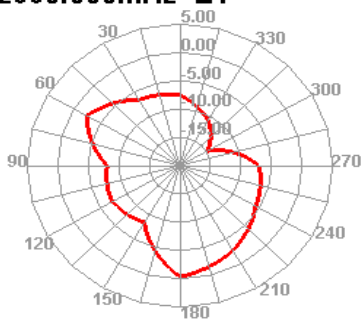
2660.000MHz



2660.000MHz H



2660.000MHz E1



2660.000MHz E2

