



ANT Manufacturers: ANWEI commnuication Equipment Co.,Ltd
Address:2nd Floor, East Block, Building 5, Yifenghua Innovation Industrial Park,
Huaning Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province

Antenna specifications

客户 Customer	Youmi	规格型号 Specs	G7 tab Pro		
安威料号 Part Number	G7 TAB PRO-MAIN-AW-V0.1 G7 TAB PRO-GWB-AW-V0.1	频 段 Frequency Band	2G	2/3/5/8	
			3G	1/2/4/5/8	
			4G	B1/2/3/4/5/7/8/12/17/ 18/19/20/25/26/28/66/ /34/38/39/40/41	
			BT/WIFI	2. 4G+5G	
			GPS	1575.42MHz	
颜 色 Color	black	版 本 Edition	REV:A1		
销 售 Salesperson	Mr.Xie	设 计 Design	WUXI		
结 构 Structure	QIN YUN LIN				
日 期 Date	2024.1.11				
客户确认 Customer confirmation:					
携手共进 共创未来 Join hands to create the future					

2. Electrical performance

(1.) Specifications and standards

The working frequency band of antenna is 699~960MHZ, 1710~2700MHZ, and resonates in this frequency band

Antenna structure: FPC

3. Parameter testing

(1.) Test settings

The sequential connections of the VSWR test device are:

E5071B Network Analyzer → 50 ohm coaxial cable → 110mm long copper tube → Test Fixture

Handling of test fixtures:

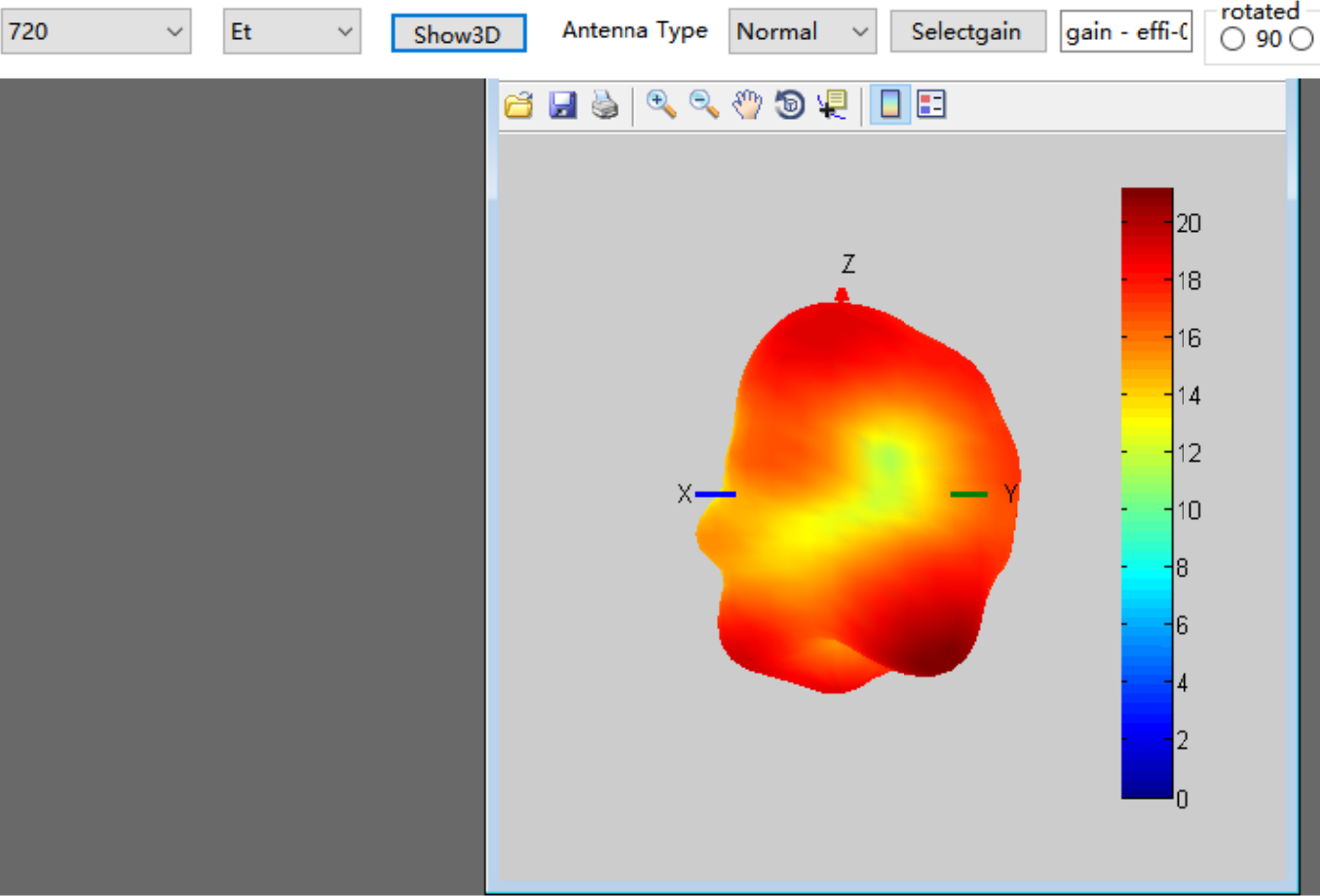
Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to a copper tube covered with a choke, and then connect it to other devices in turn.

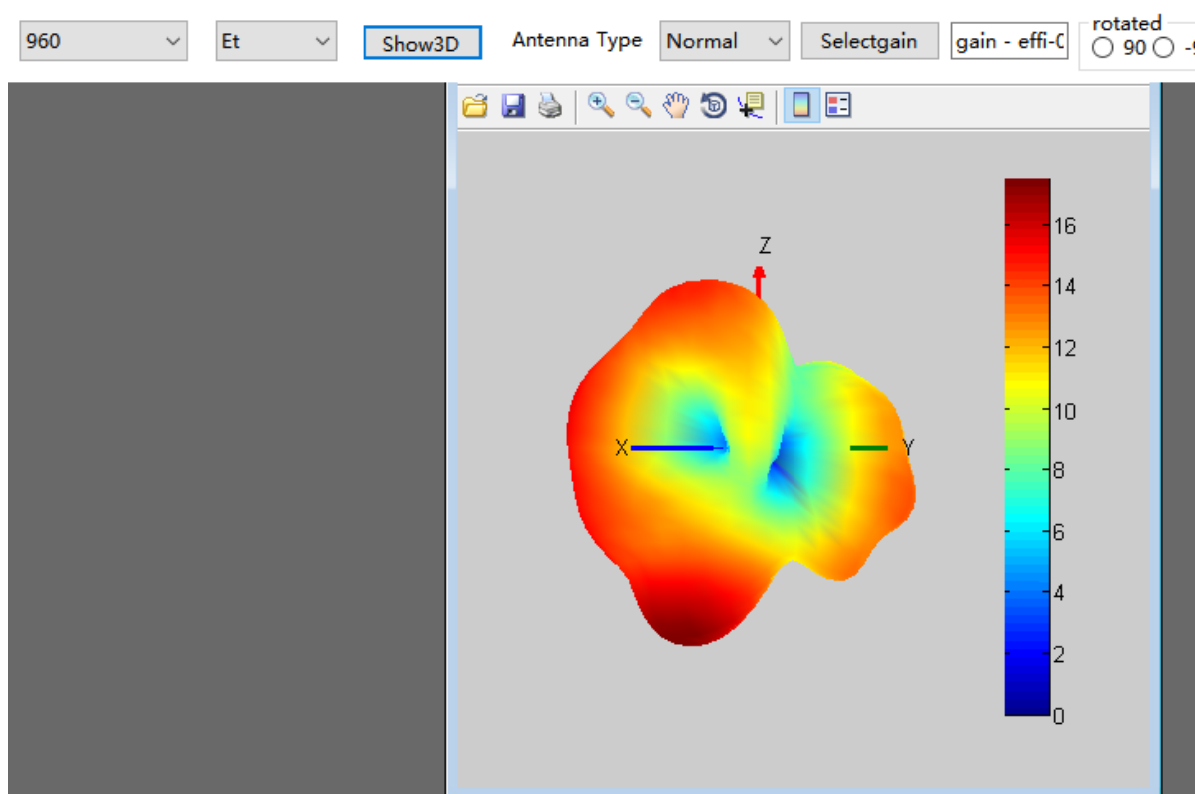
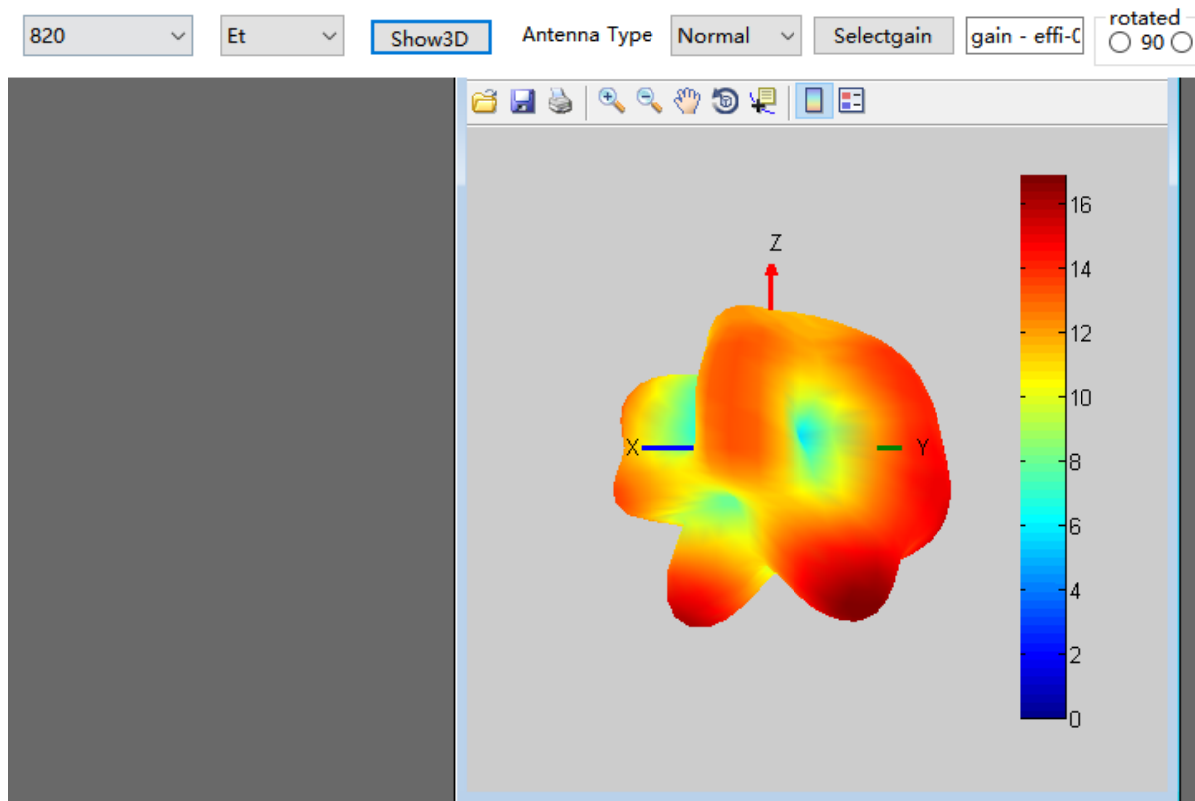
Antenna parameters:

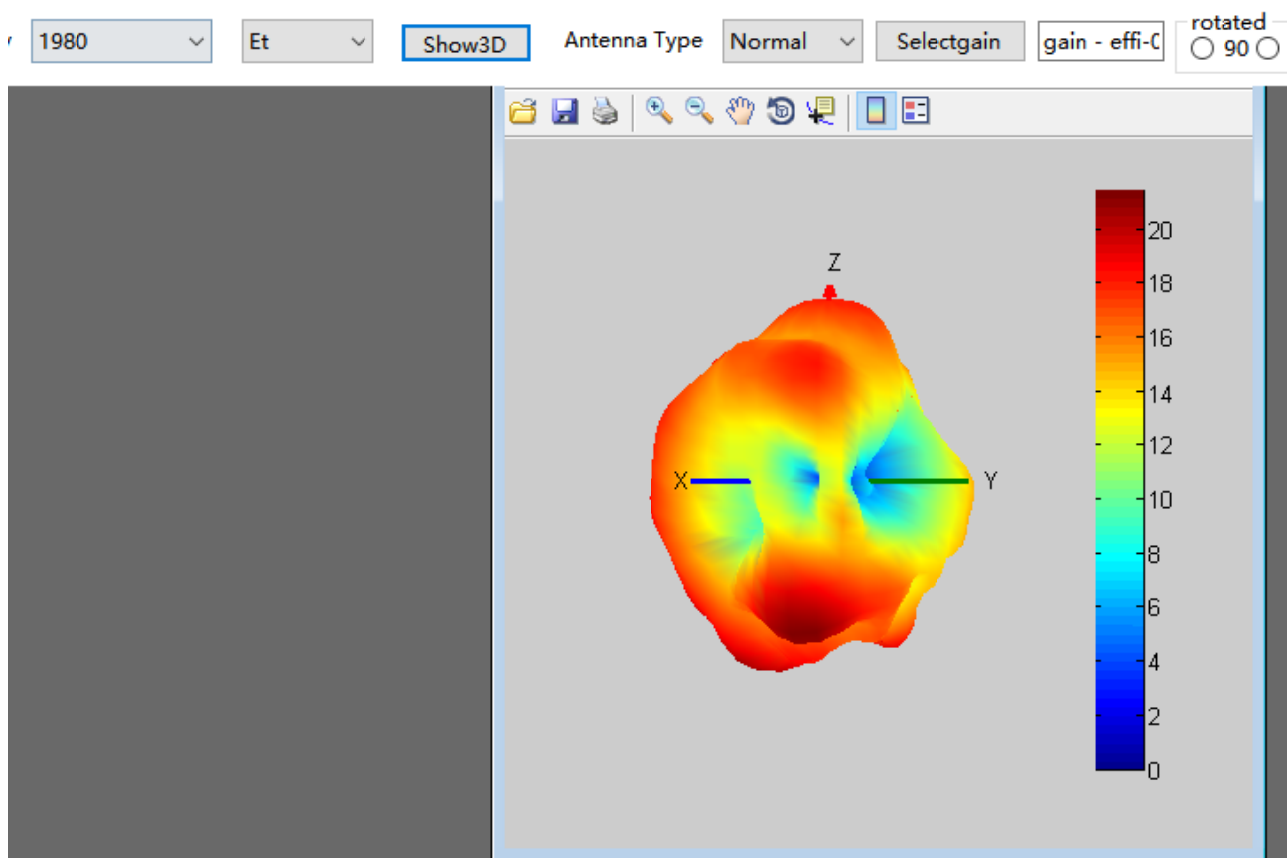
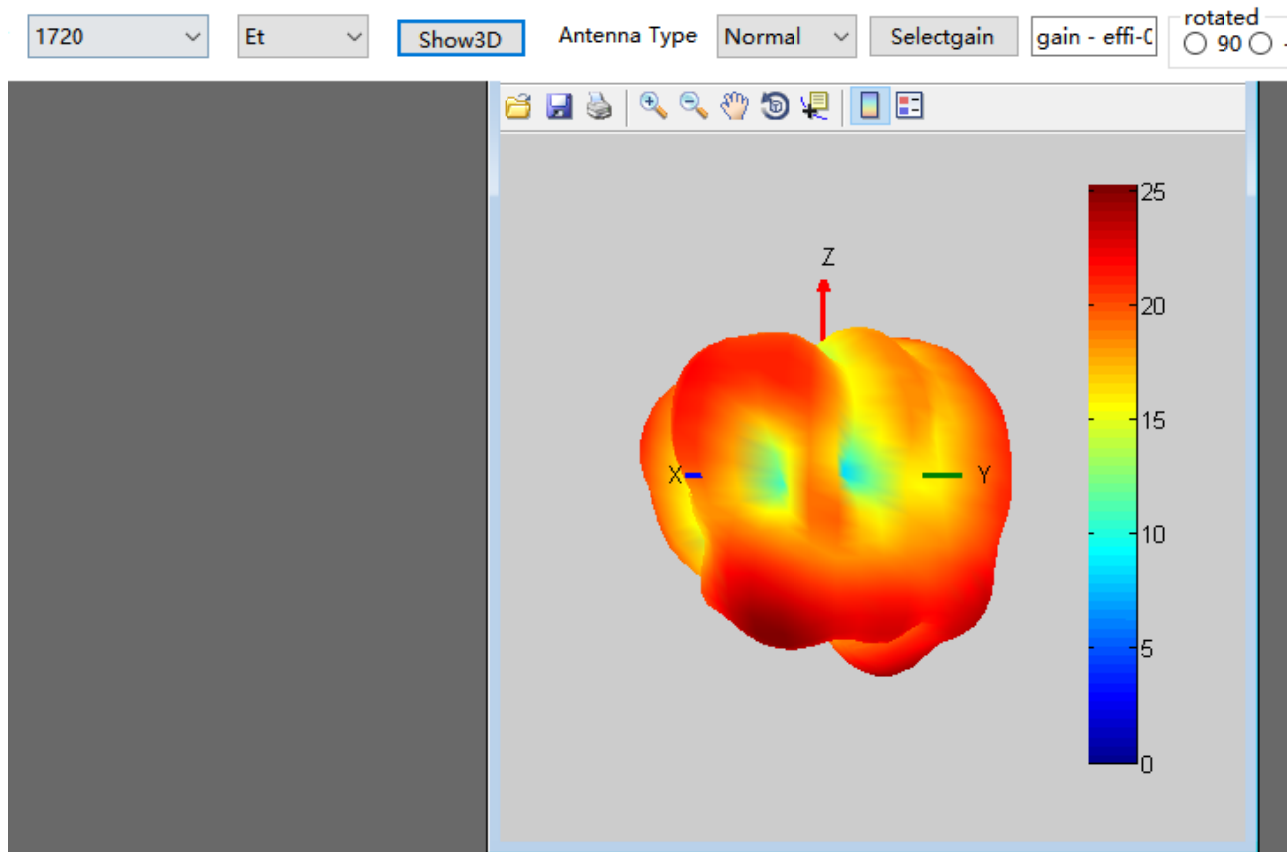
工作频段(Working frequency band): 699~960MHZ, 1710~2700MHZ

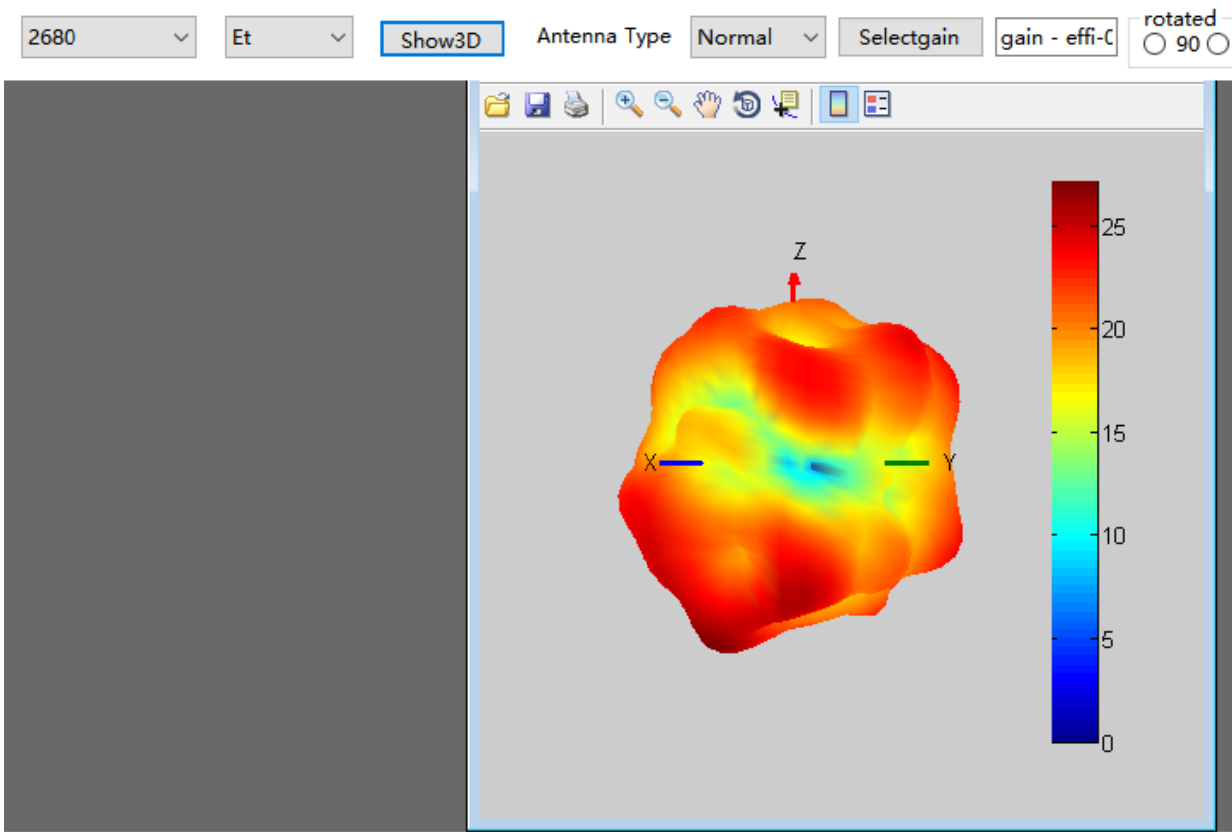
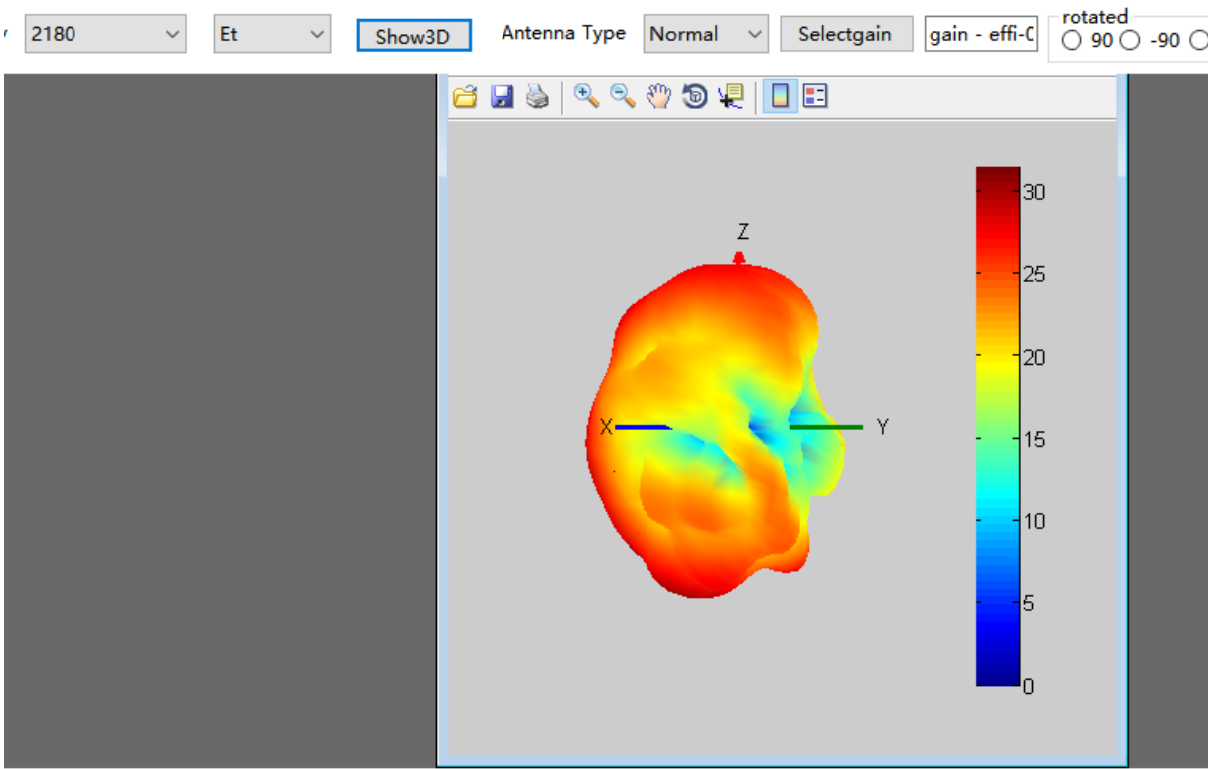
2G	2/3/5/8
3G	1/2/4/5/8
4G	B1/2/3/4/5/7/8/12/17/18/19/20/25/26/28/66 /34/38/39/40/41
BT/WIFI	2. 4G+5G
GPS	1575. 42MHz

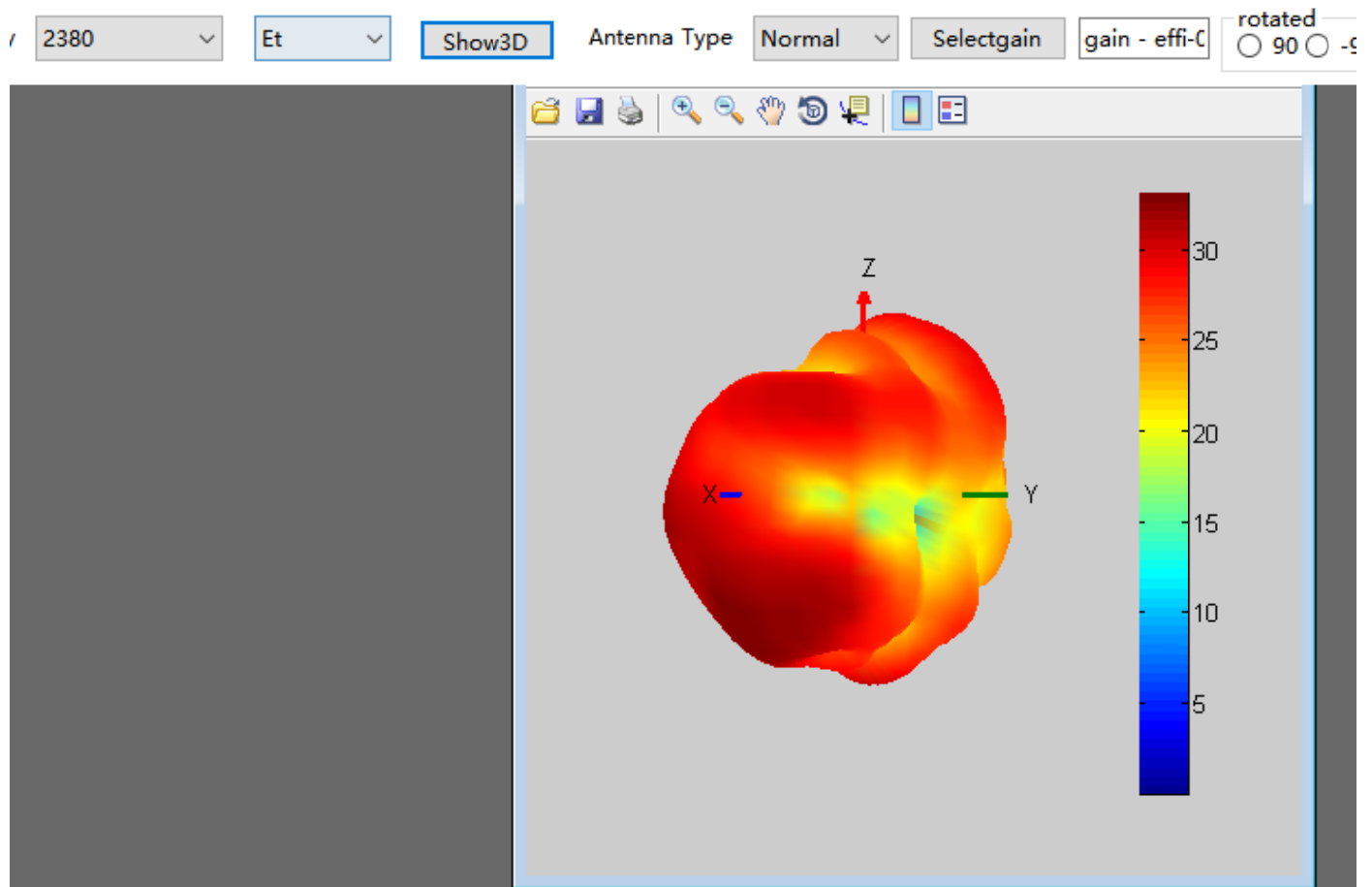
Band	gain (dBi)	Frequency
LTE-B12/B13/B17/B28	-6.55	720MHZ
BC0/BC10/GSM850,WCDMA-B5/B6/B19,LTE-B5/B18/B19/B20/B26	-4.35	820MHZ
GSM900,WCDMA-B8,LTE-B8	-5.42	960MHZ
DCS1800,LTE-B3,WCDMA-B4,LTE-B4/B66	0.24	1720MHZ
BC1,PCS1900,WCDMA-B2,LTE-B2/B25/B39	0.15	1980MHZ
WCDMA-B1,LTE-B1/B34	0.78	2180NHZ
LTE-B7/B38/B41,	2.30	2680MHZ
LTE-B40	-0.16	2380MHZ
GPS	1.2	1575MHZ
2.4G WIFI/BT	2.0	2450MHZ
5G WIFI	0.82	5300MHZ





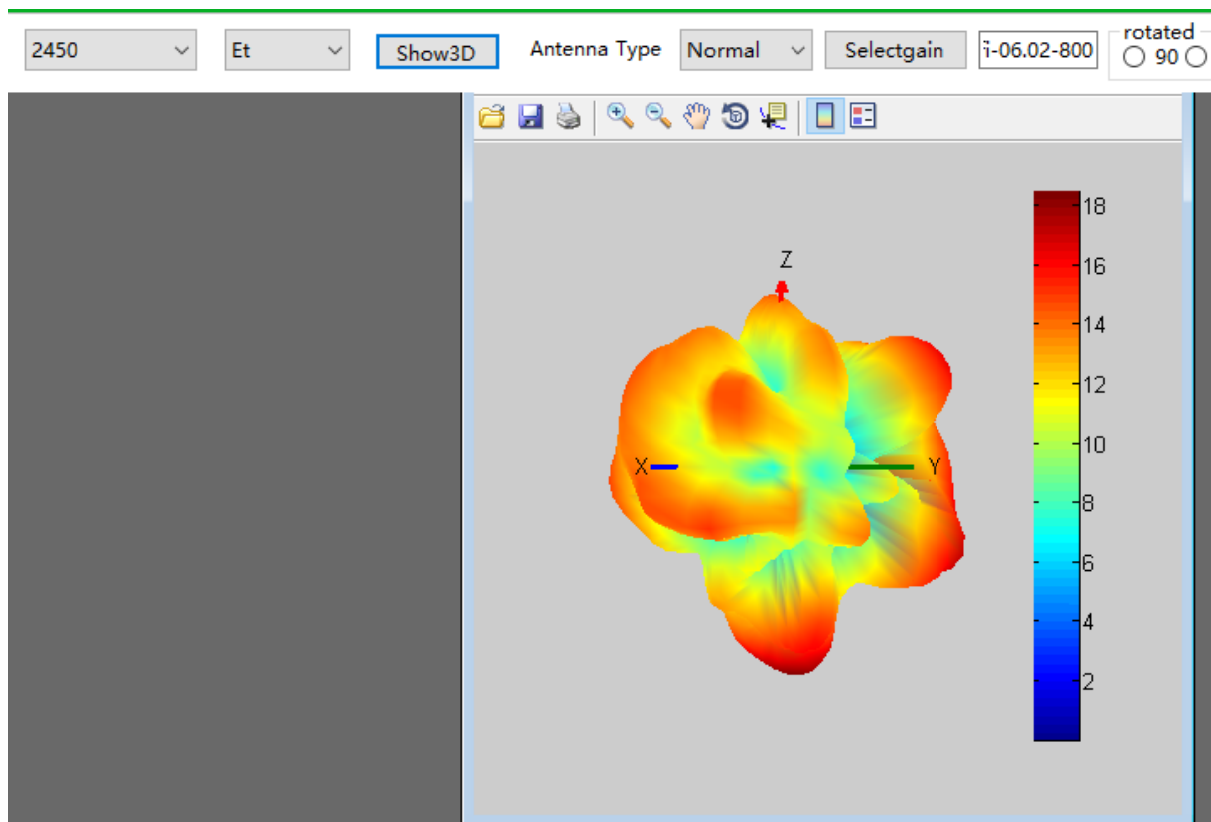
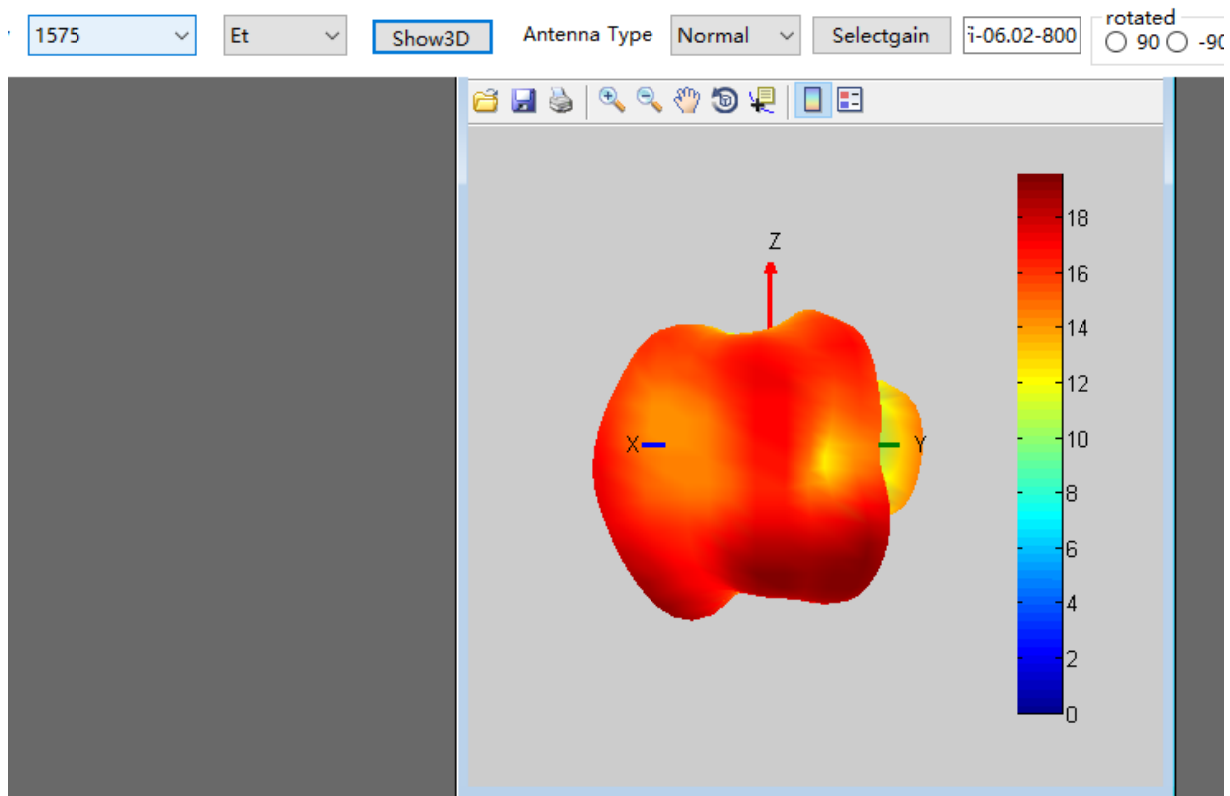


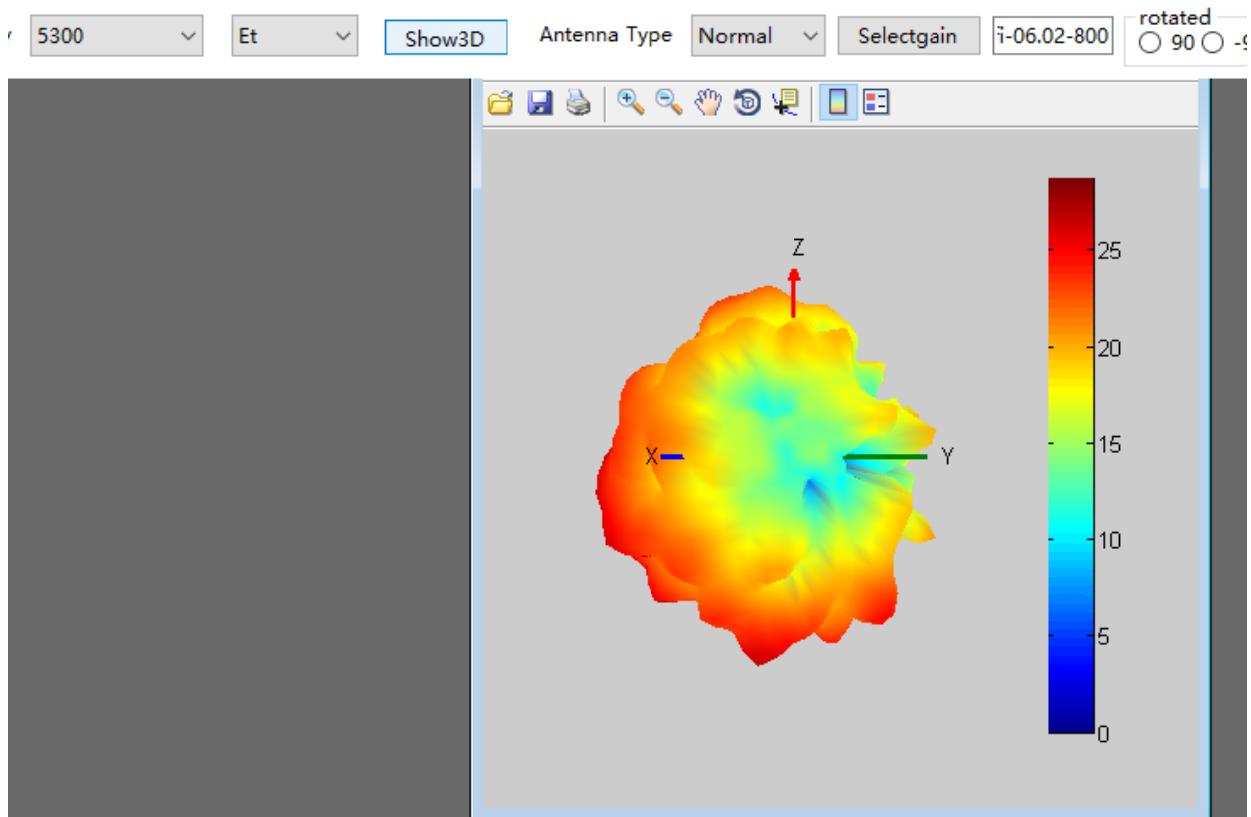




GPS/WIFI/BT Antenna parameters:

工作频段(Working frequency band): 1560~1580MHZ, 2400~2500MHZ,5180~8525MHZ





2.Test results

everything is normal.

4. Settings for active testing

The active test device connections in sequence are:

Agilent8960→50 ohm coaxial cable→Satimo SG16 test system→Mobile phone to be tested

1.Testing venue

AW microwave anechoic chamber: The test frequency range is 400MHz-6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than -90 dB.

2. Test Results

The maximum radiated power and maximum receiving sensitivity reflect the maximum power radiation value and best receiving performance of the antenna in the entire radiation space. TRP and TIS reflect the average radiated power and average receiving sensitivity of the antenna, that is, they reflect the overall receiving performance of the antenna.

The following are the active test results of the main antenna of the G7 tab Pro mobile phone:

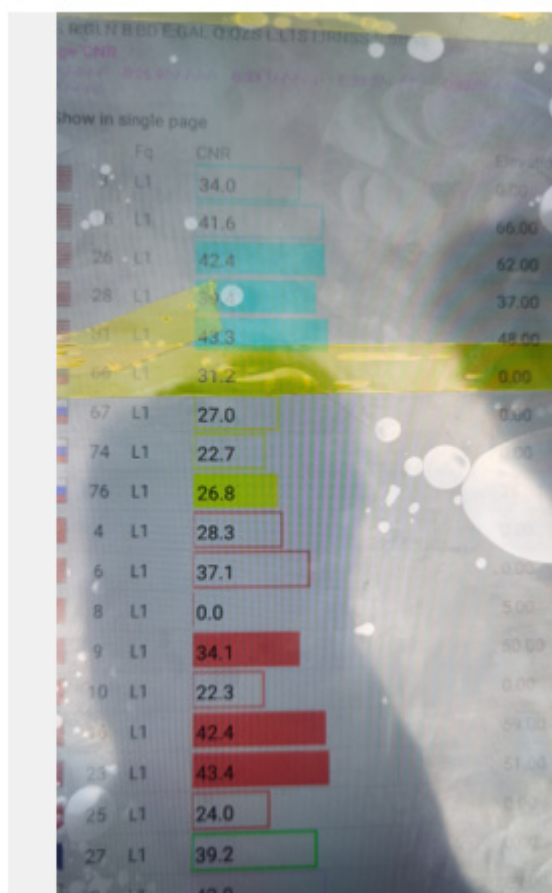
主天线暗室数据

	Channel	TRP (dBm)	TIS (dBm)							Channel	TRP (dBm)	TIS (dBm)
FDD B1	LOW	17.7		FDD B17	LOW	14.59		FDD B66	LOW	16.13		
	medium	17.55			medium	14.77			medium	16.11		
	high	17.37	-90.3		high	14.27	-87.4		high	16.21	-88.5	
FDD B2	LOW	16.22		FDD B18	LOW	17.84						
	medium	16.67			medium	16.66						
	high	16.77	-90.5		high	16.32	-90.5					
FDD B3	LOW	18.01		FDD B19	LOW	16.38						
	medium	17.68			medium	16.59						
	high	16.97	-90.4		high	16.13	-90.6					
FDD B4	LOW	16.85		FDD B20	LOW	16.68		TDD B34	LOW	16.39		
	medium	16.49			medium	16.13			medium	17.12		
	high	16.27	-89.5		high	16.48	-89.5		high	16.17	-90.45	
FDD B5	LOW	17.42		FDD B25	LOW	16.9		TDD B38	LOW	17.94		
	medium	17.42			medium	17.42			medium	17.82		
	high	17.65	-90.2		high	17.51	-87		high	17.71	-89.66	
FDD B7	LOW	17.26		FDD B26	LOW	16.72		TDD B39	LOW	17.92		
	medium	16.96			medium	16.36			medium	17.58		
	high	17.86	-89.2		high	17.08	-90.3		high	17.31	-90.0	
FDD B8	LOW	16.82		FDD B28A	LOW	14.6		TDD B40	LOW	16.09		
	medium	15.34			medium	14.79			medium	16.19		
	high	14.63	-89		high	14.14	-87.1		high	16.56	-88.2	
FDD B12	LOW	13.48		FDD B28B	LOW	14.87		TDD B41	LOW			
	medium	13.74			medium	14.31			medium	17.05	-88.1	
	high	13.34	-87.5		high	14.05	-87.2		high			

主天线暗室数据

GSM 850	128	26.02			W 1	LOW	17.35	
	190	25.54				medium	17.54	
	251	25.56	-101.2			high	17.34	-104.5
GSM 900	1	25.31			W 2	LOW	16.57	
	62	24.50				medium	17.24	
	124	24.31	-100			high	17.62	-102.2
DCS 1800	512	24.01			W 4	LOW	16.3	
	698	24.12				medium	16.45	
	885	25.1	-103.1			high	17.12	-103.3
PCS 1900	512	24.34			W 5	LOW	16.17	
	661	25.15				medium	16.78	
	810	24.42	-102.2			high	16.11	-101.5
					W 8	LOW	14.13	
						medium	14.01	
						high	14.62	-100.5

GPS天线实际测试效果:



 WIFI测试效果:

BAND	2.4GWIFI			5GWIFI		
CHANNEL	low	medium	high	low	medium	high
TRP (dBm)	11.42	10.24	10.1	9.54	10.24	11.35
TIS (dBm)	-79.3	-80.0	-79.06	-68.14	-68.35	-71

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