

Test Report

Sample Name:4G & WIFI Antena

Model:ZDXW-3M/SMA-J4G

Test Standard:GB/T9410-2008

Report time:2024.04.15

Version : A0

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1. Test Aim:

According to customer project needs, we provide test reports that meet customer requirements for the electrical performance technical requirements and test standards of 4G/WIFI antenna products.

2. Sample Information :

Sample Name : 4G & WIFI Antena

Sample Model : ZDXW-3M/SMA-J4G

Sample Code : 55027-91A1C5079

3. References

Main reference documents for testing :

No.	File Name	File Title
1	GB/T9410-2008	Technical specifications for mobile communication antennas

4. Test Antena OTA Passive Parameter

4.1 Test System connection

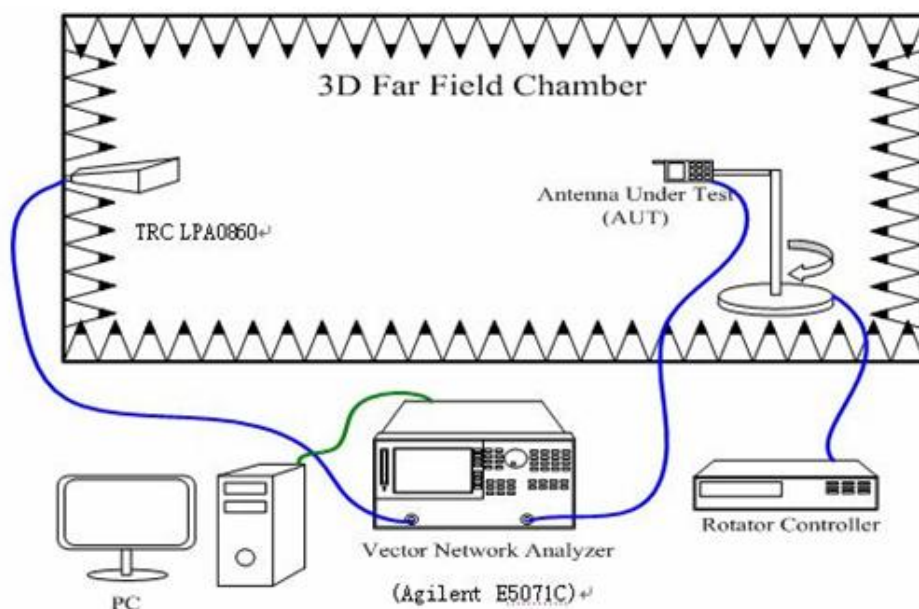


图. 1. 微波暗室内部仪器设置 r.

4.2 Test Machine

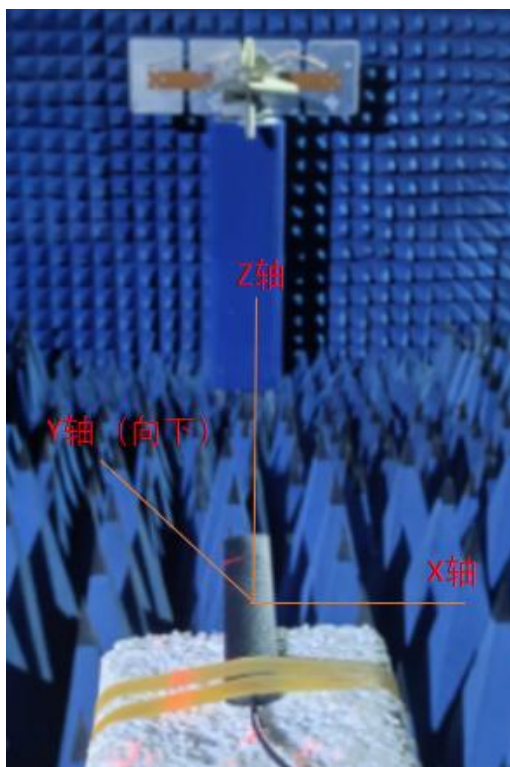
Network Analyzer E5071C

Antena

Computer

microwave anechoic
chamber

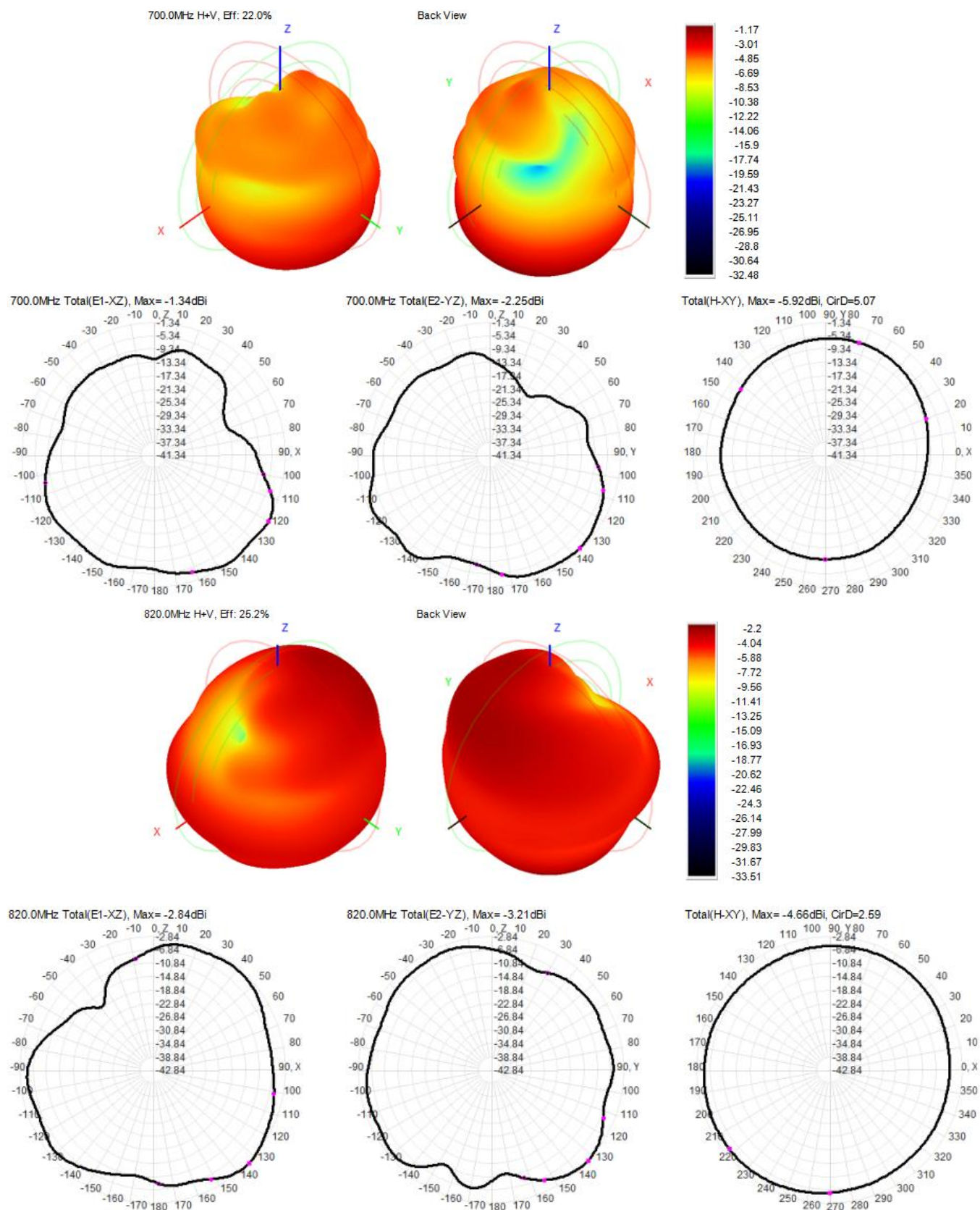
4.3 Antena test picture



4.4 OTA Passive Test data :

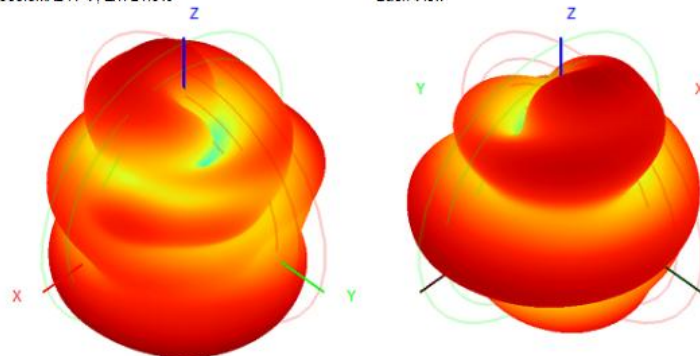
Frequency (MHz)	Gain (dBi)	Efficiency(%)	Frequency (MHz)	Gain (dBi)	Efficiency(%)
695.0	-0.47	25.36	1700.0	-0.35	20.46
700.0	-1.17	21.96	1750.0	-0.69	18.57
720.0	-0.90	24.09	1800.0	-3.44	17.34
740.0	-1.83	25.08	1850.0	-3.50	15.95
760.0	-3.12	25.00	1900.0	-3.46	17.23
780.0	-1.26	23.76	1950.0	-3.51	17.61
800.0	-1.57	27.09	2000.0	-2.67	15.76
820.0	-2.20	25.15	2050.0	-2.32	18.29
840.0	-1.19	28.53	2100.0	-1.84	17.65
860.0	-1.54	29.95	2150.0	-2.65	16.84
880.0	-2.92	24.99	2200.0	-4.29	16.97
900.0	-0.69	25.14	2250.0	-3.47	16.18
920.0	0.15	25.19	2300.0	-3.31	16.43
940.0	-0.76	30.31	2350.0	-2.29	16.75
960.0	-1.05	21.84	2400.0	-3.62	13.74
			2450.0	-4.06	14.70
			2500.0	-5.12	12.68
			2550.0	-3.98	15.83

4.5 OTA Direction Picture



960.0MHz H+V, Eff: 21.8%

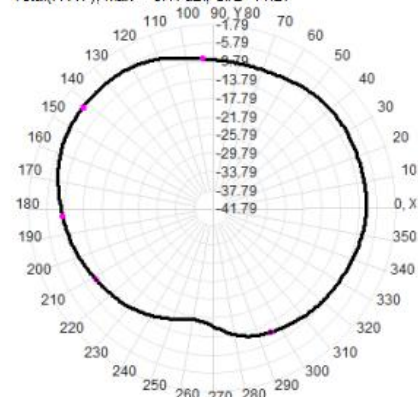
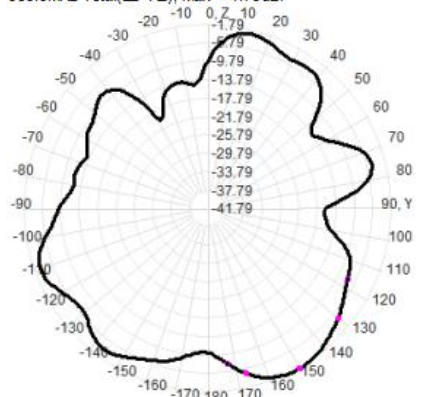
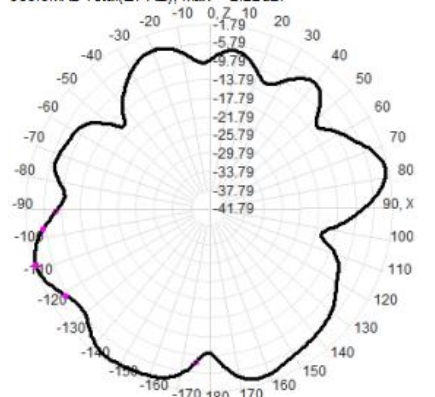
Back View



960.0MHz Total(E1-XZ), Max=-2.22dBi

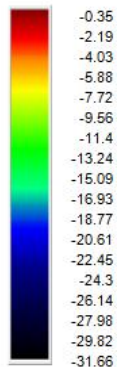
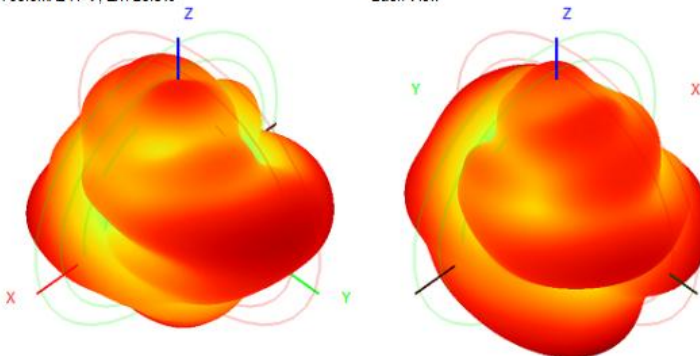
960.0MHz Total(E2-YZ), Max=-1.79dBi

Total(H-XY), Max=-6.17dBi, CirD=11.27



1700.0MHz H+V, Eff: 20.5%

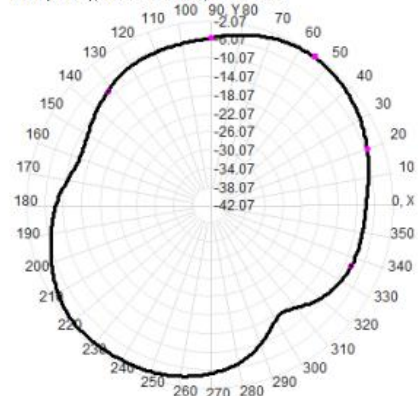
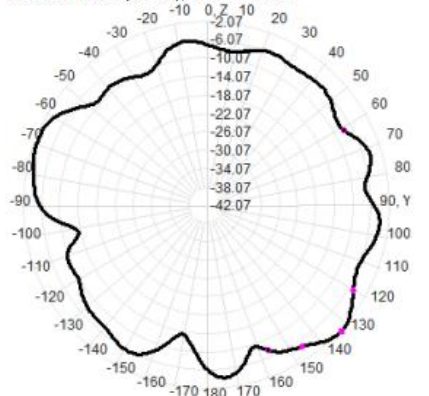
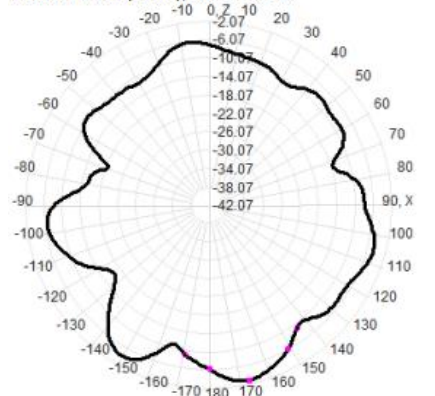
Back View

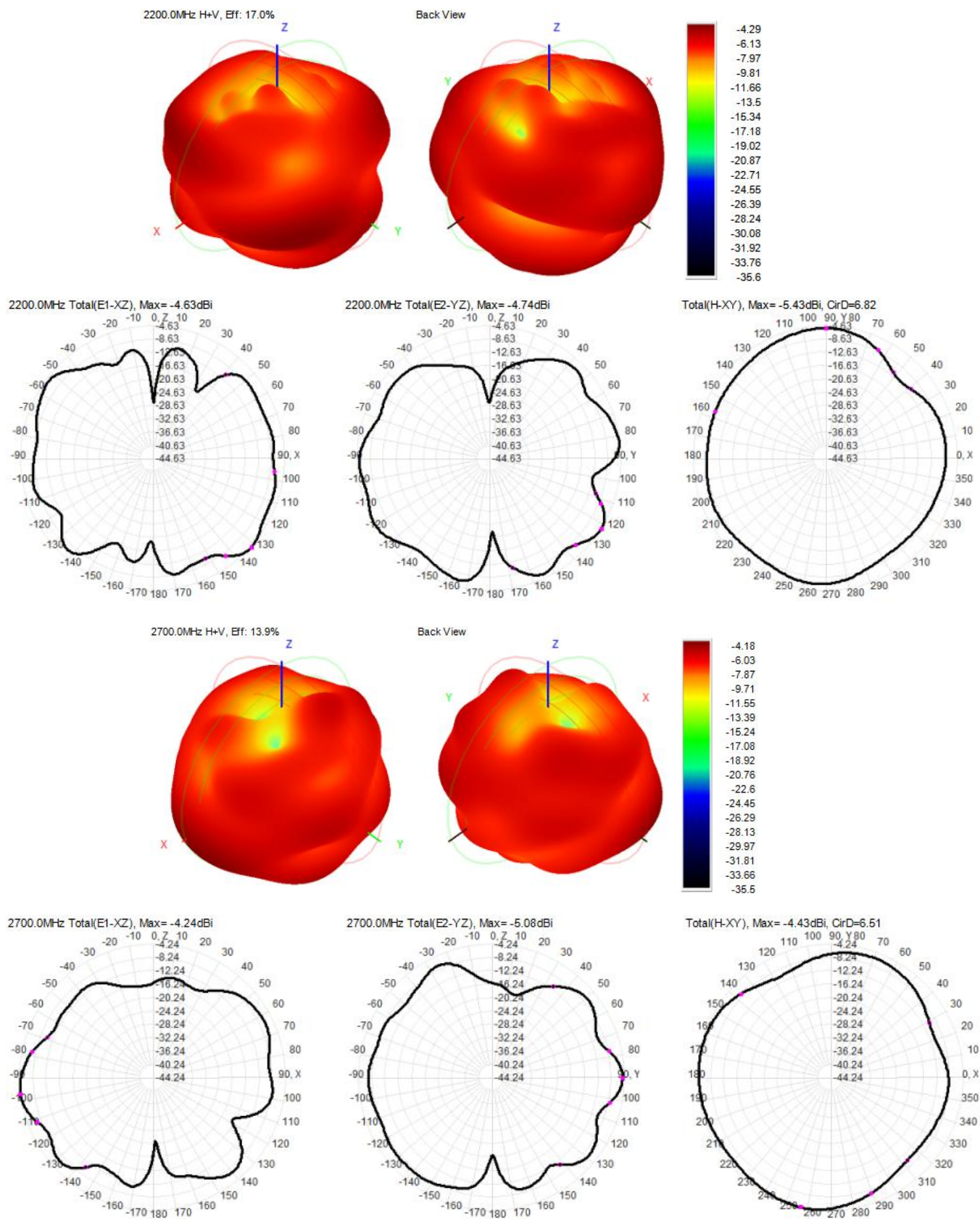


1700.0MHz Total(E1-XZ), Max=-3.23dBi

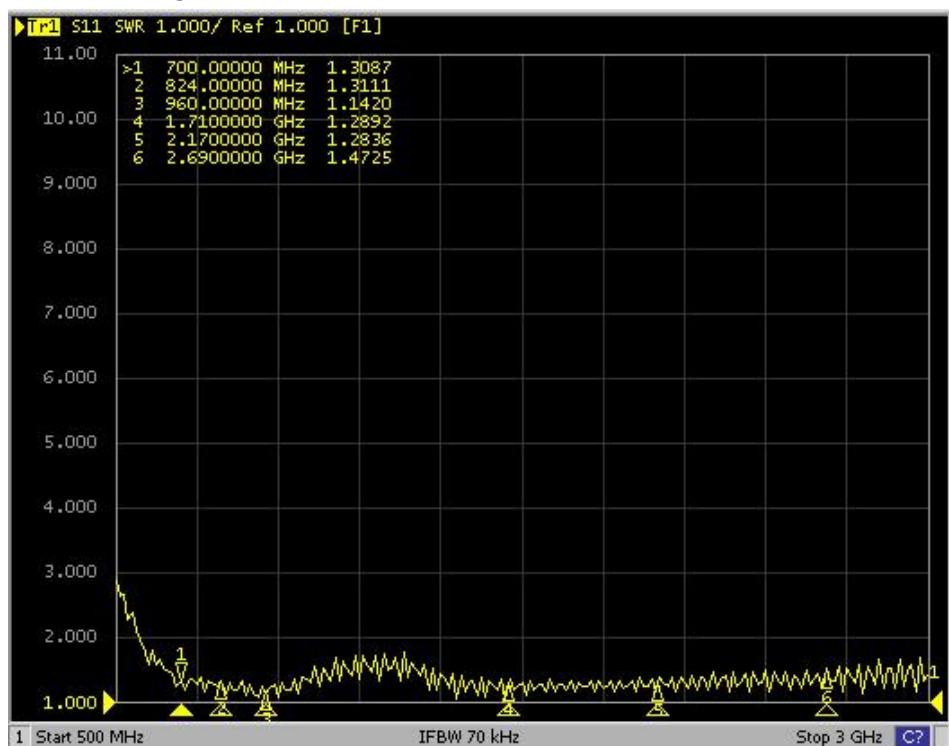
1700.0MHz Total(E2-YZ), Max=-2.07dBi

Total(H-XY), Max=-2.71dBi, CirD=11.32





4.6 Standing wave ratio test chart



Frequency (MHz)	VSWR
700	1.30
824	1.31
960	1.14
1710	1.28
2170	1.28
2690	1.47

5.Specification :

Frequency Range (MHz)	704-960/1710-2700
Input Impendence (Ω)	$50 \pm 10 \Omega$
V.S.W.R	≤ 2.0
Max Input Power (w)	50
Antena Length	3Mts
Connector Type	SMA
Mounting	Sticky
Color	Black
Operating Temperature	$-35^{\circ}\text{C} \sim +75^{\circ}\text{C}$

