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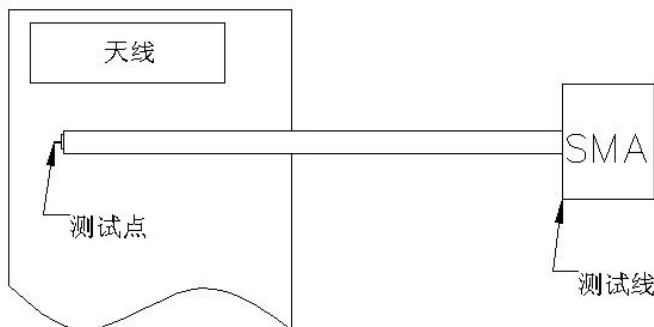
1.Project Image

The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

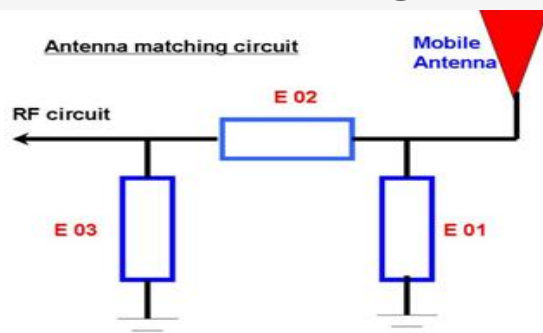
2.Test Fixture

Objective: to test the passive parameters of antenna as accurately as possible. Making

Method: the handset is made of a 50 ohm coaxial cable, one end of which is connected to the test point of the back end of the matching circuit of the handset motherboard (front end of the RF test hole) , and the other end is connected to the SMA joint. The diagram is as follows:



3、Antenna matching circuit



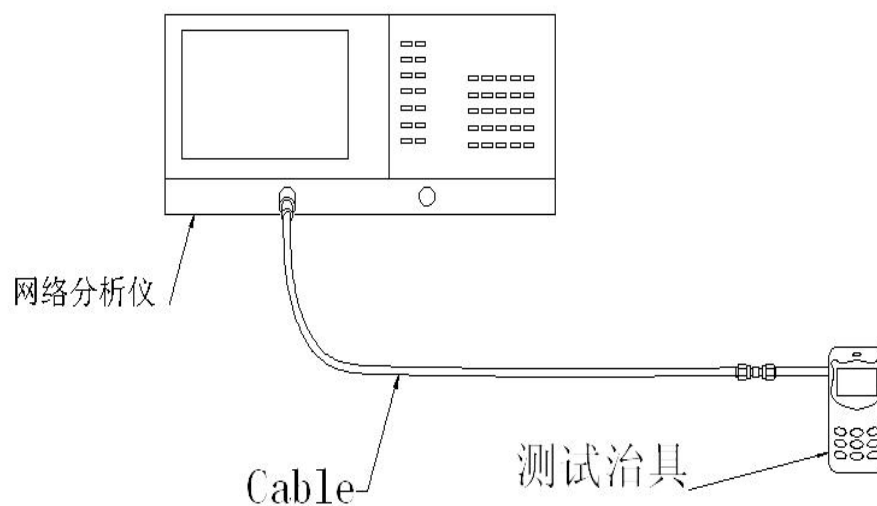
Modify

E01	E02	E03
No	No	No

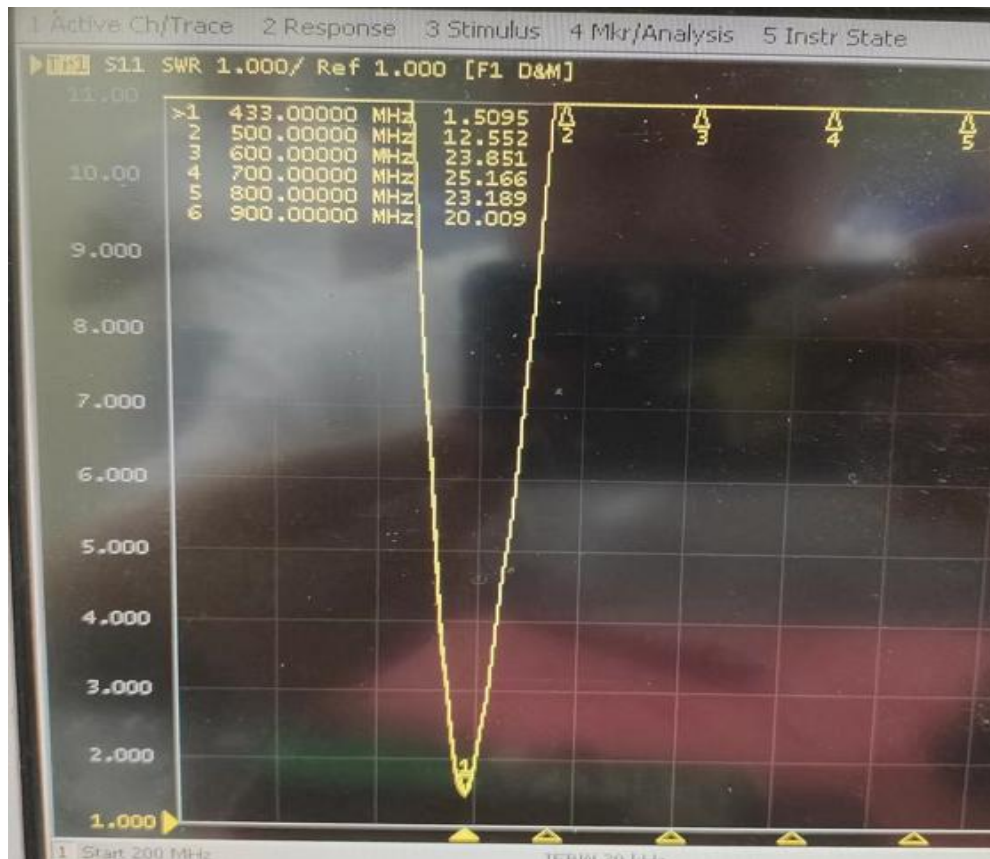
Note: The match is unmodified.

4.S11 test

4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding to the relevant frequency points. The test schematic is as follows:



4.1 SWR



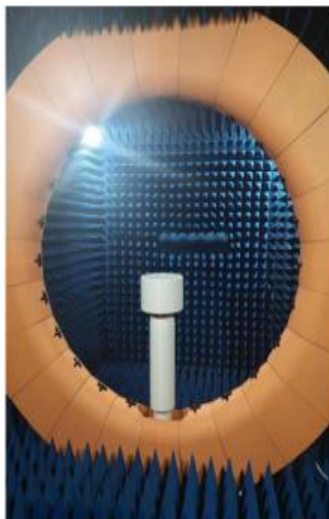
5.Darkroom test equipment and data

6.Test Equipment

Test system: shielded darkroom

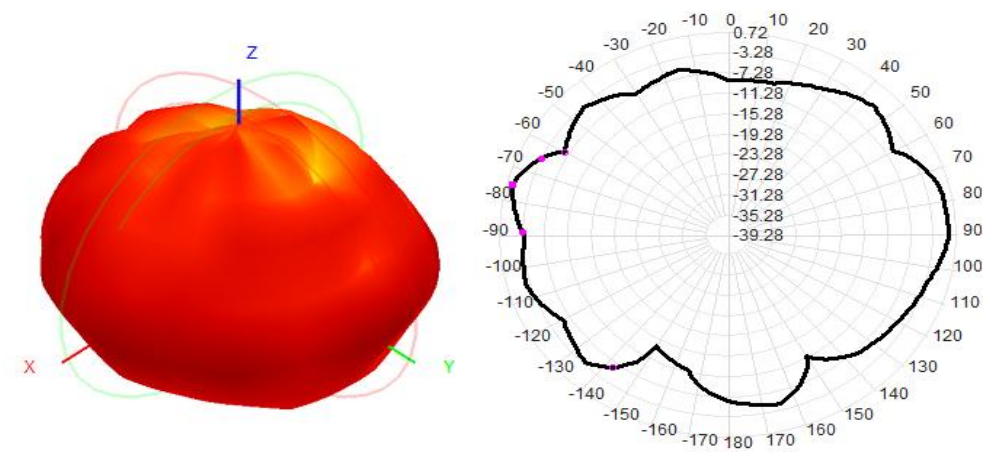
The temperature was $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the humidity was $50\% \pm 15\%$

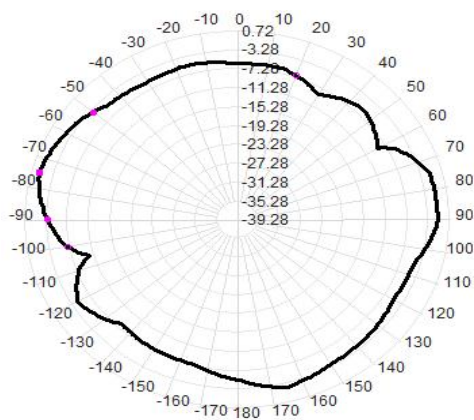
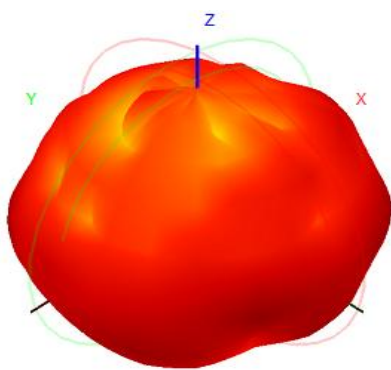
Test equipment: when testing passive data, use the Network analyzer AGILENT E5071C to test active data, use the omnibus CMW500



7.Active antenna test data

测试数据:		
433Mhz		
Freq(MHz)	Efficiency (%)	Gain (dBi)
430	30.5	0.25
431	31.4	0.36
432	32.5	0.48
433	33.6	0.52
434	34.5	0.16
435	31.6	0.19
436	32.5	0.21
437	30.5	-0.15
438	29.5	0.14





8.Schematic diagram of antenna assembly

9.Antenna environment handling

10.Antenna mass production index

When the antenna is mass-produced, the standing wave ratio is taken as the mass-produced test standard. Based on the differences of the project itself, the following criteria are given:	Standard for volume production
824Mhz-2170Mhz	VSWR (Mass Production performance) & LT;

	VSWR(recognition performance) 0.5
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10.1 Structural drawings (mm)

