

P010162300-Antenna gain report

1 : Supplied by the antenna manufacturer (data sheet

Coaxial cable antenna , 2.4-2.5GHz , 2dBi , 5.15-5.85-7.12GHz , 1dBi , 27.67×8.42mm , 90mm , Gray , IPEX1 , PCB , 1COAX , parcel sponge , SH , XY

please refer to the operation description.

2 : Antenna data from lab tests. (PCB antenna must have a test report) ANT 3 and ANT 4

frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
2400	0.03	-3.98	40	5100	4.9	-1.12	77.34	5600	5.26	-1.17	76.36
2410	0.32	-3.98	40.02	5150	5.1	-0.82	82.73	5650	5.09	-0.98	79.82
2420	0.45	-3.75	42.16	5200	5.44	-1.2	75.88	5700	5.08	-1.07	78.22
2430	0.56	-3.47	44.97	5250	4.95	-1.06	78.36	5750	5.21	-1.07	78.23
2440	0.59	-3.52	44.44	5300	5.6	-0.9	81.22	5800	5.08	-1.02	79.14
2450	0.57	-3.48	44.88	5350	5.77	-0.8	83.13	5850	4.6	-1.22	75.53
2460	0.72	-3.33	46.49	5400	5.69	-1.01	79.19	5900	4.58	-1.38	72.77
2470	1.01	-3.11	48.81	5450	5.57	-0.81	82.9				
2480	0.85	-3	50.06	5500	5.44	-1.01	79.2				

frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)	frequency 频率	gain 增益(dBi)	efficiency 效率(dB)	efficiency 效率(%)
6000	4.24	-1.2	75.87	6650	4.27	-2.27	59.33
6050	4.56	-1.46	71.41	6700	4.47	-1.99	63.3
6100	5.12	-1.26	74.75	6750	4.08	-1.76	66.69
6150	5.11	-1.15	76.71	6800	5.3	-1.03	78.95
6200	4.73	-1.62	68.81	6850	4.14	-1.64	68.6
6250	4.18	-1.89	64.74	6900	5.35	-1.58	69.51
6300	4.03	-2.07	62.11	6950	5.72	-1.38	72.83
6350	4.29	-1.79	66.16	7000	5.45	-1.76	66.71
6400	4.12	-2.11	61.47	7050	4.41	-1.8	66.12
6450	3.71	-2.32	58.65	7100	4.79	-1.49	70.92
6500	4.03	-2.2	60.23	7150	3.74	-2.07	62.15
6550	4.02	-2.3	58.83	7200	4.48	-1.67	68.01
6600	4.69	-2.24	59.76				

The test report must contain the following:

1 : Test sample photos:

please refer to the internal photos.

2 : Test setup Photos:

please refer to antenna setup photos.

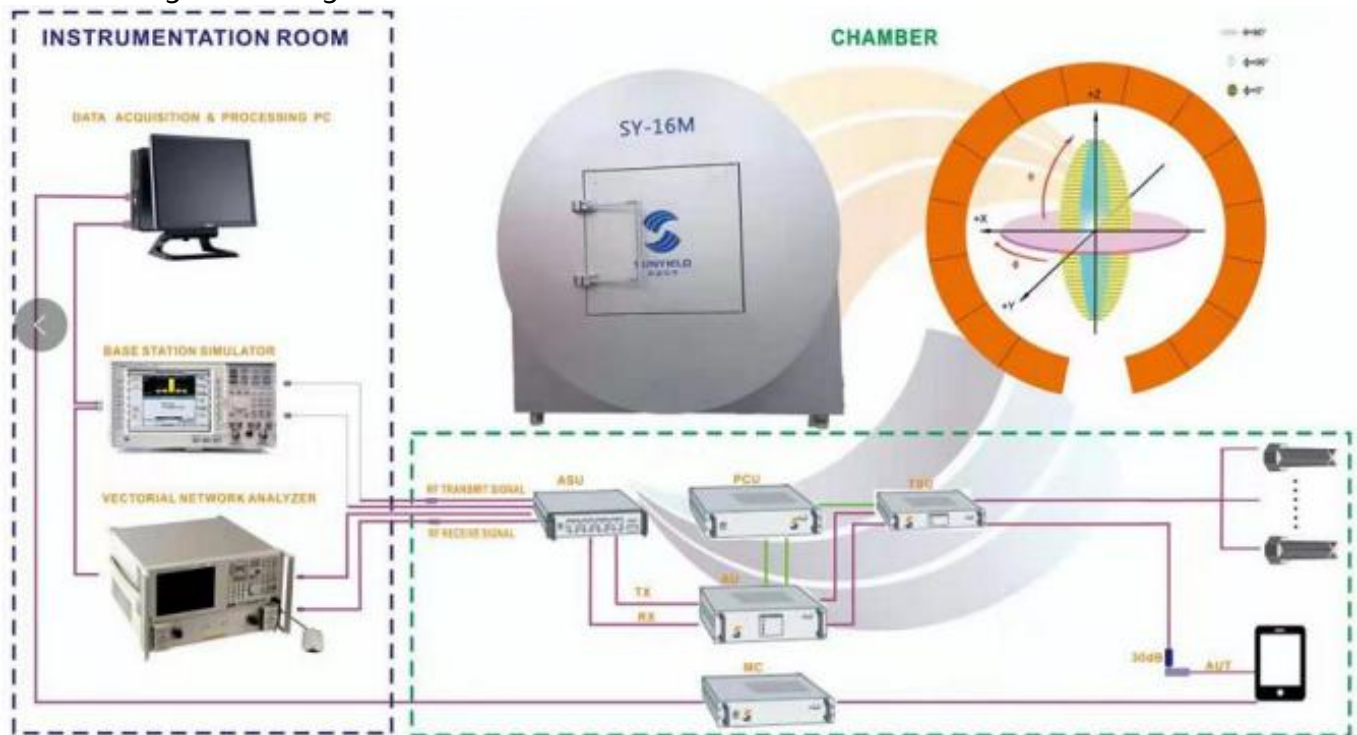
3 : Test procedure

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

4 : Equipment list

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Network Analyzer	Agilent	E5071B	E5071B-ATO-12478 MY42301894	2023/11/12	2024.11.11
Antenna	SUNYIELD	Standard antenna	SH800-005	2024/1/20	2025/1/19
Chamber	SUNYIELD	191043155HW	SY-16	2024/1/20	2025/1/19

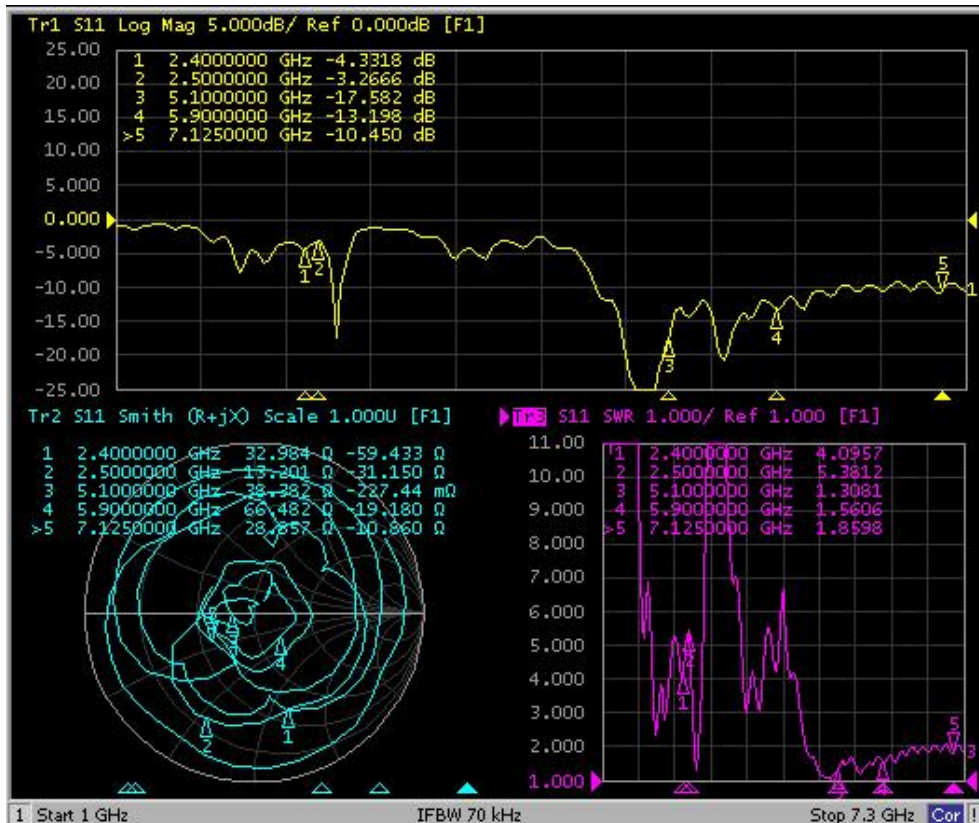
5 : Test configuration diagram

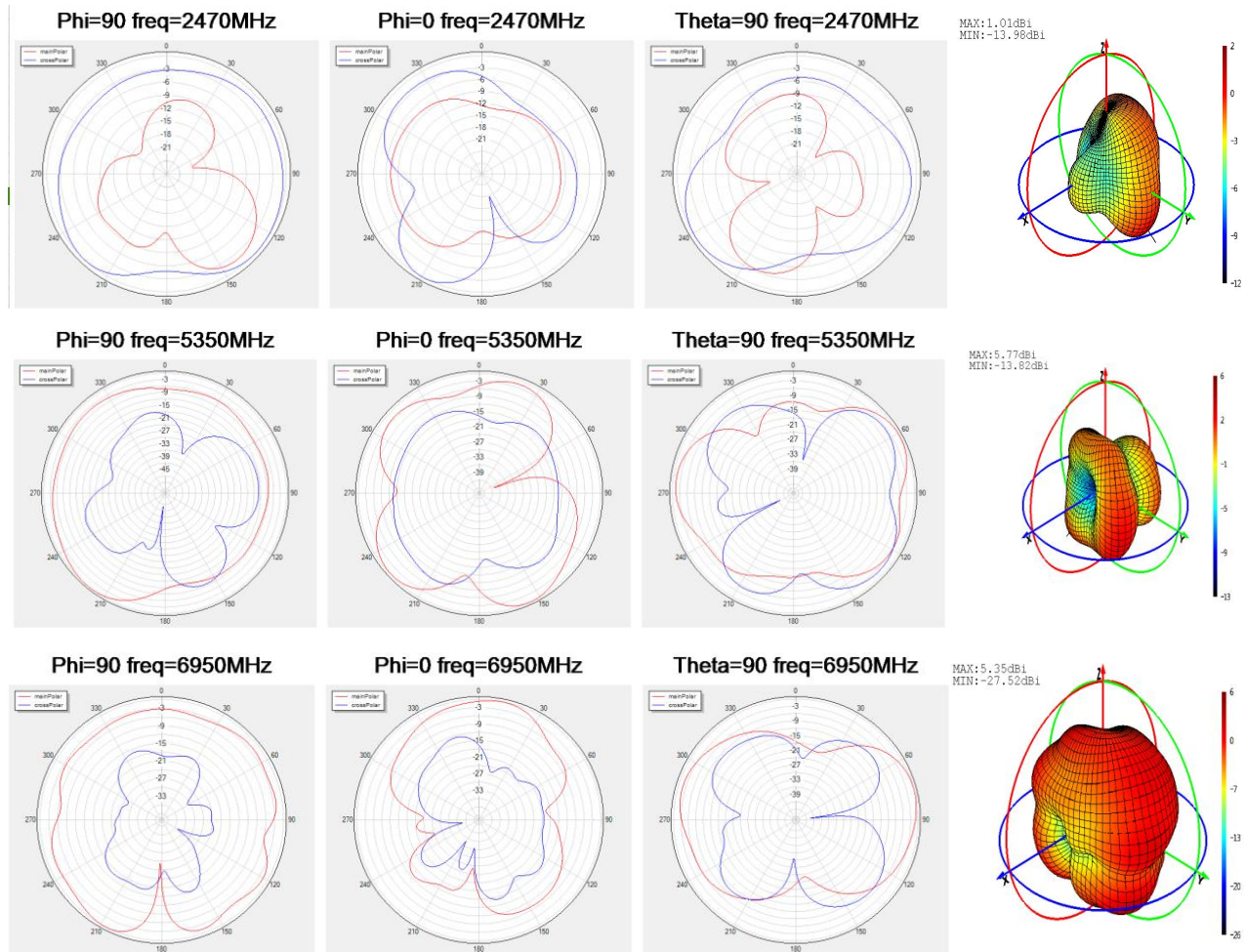


6 : Antenna gain test diagram and data

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7: Test software

Test software being used: Sunyield Passive Measurement system
Software Version: Version 2.8.5

Test by : sam zhang

Test Data: 2024-1-28