

频率范围 Frequency range	2400 ~ 2500 MHz 5150 ~ 5850 MHz
增益 Gain	3.1dBi@2400 ~ 2500 MHz 3.8dBi@5150 ~ 5850 MHz
驻波比系数 VSWR	<2.0
输入阻抗 Input Impedance	50±5 (Ω)
极化方式 Polarization	垂直极化 Vertical Polarization
半功率波束 (3dB) HPW	180°H-plane 120°E-plane

1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the 2.4GHz/5.8GHz antenna program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

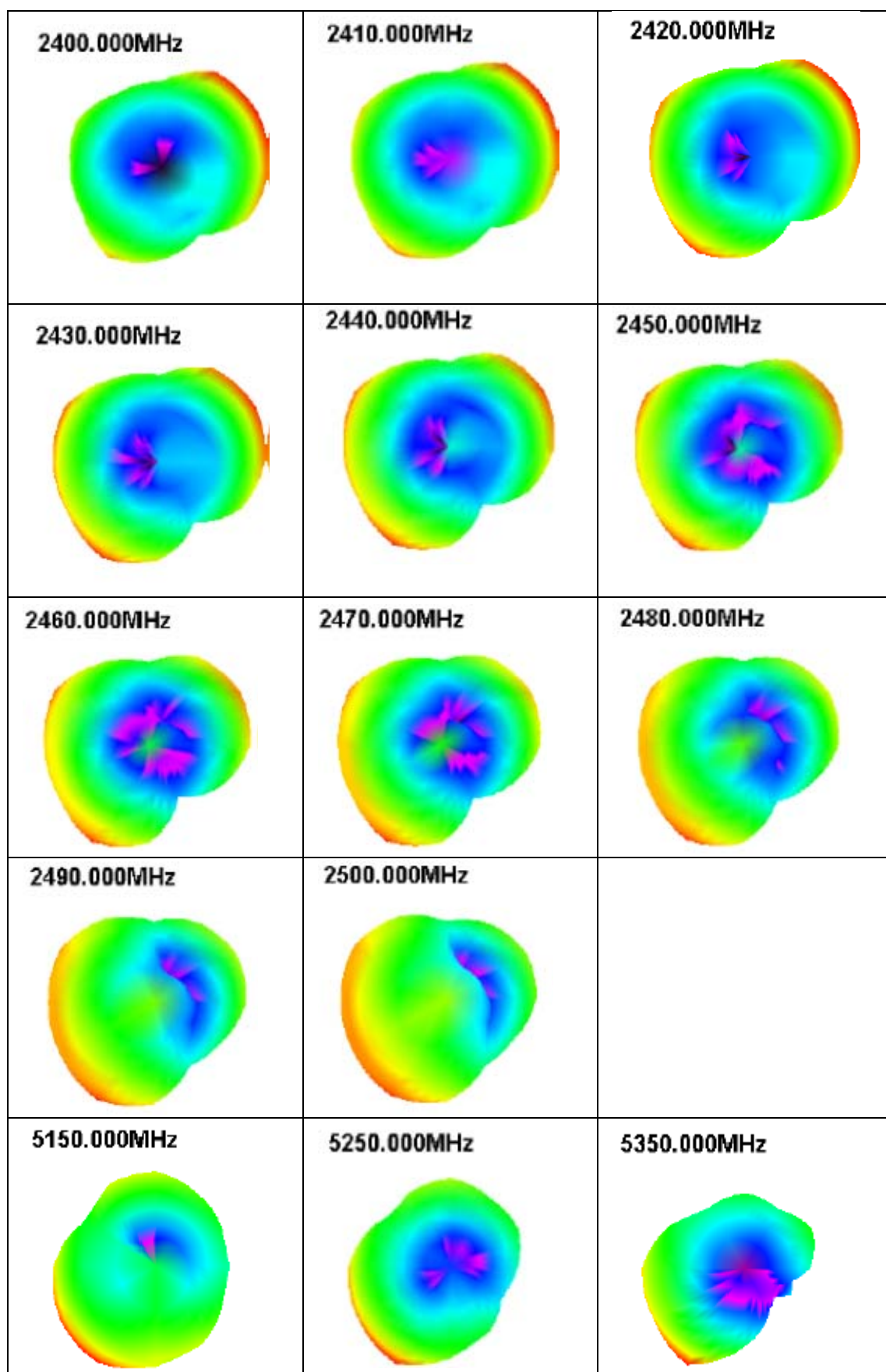
4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

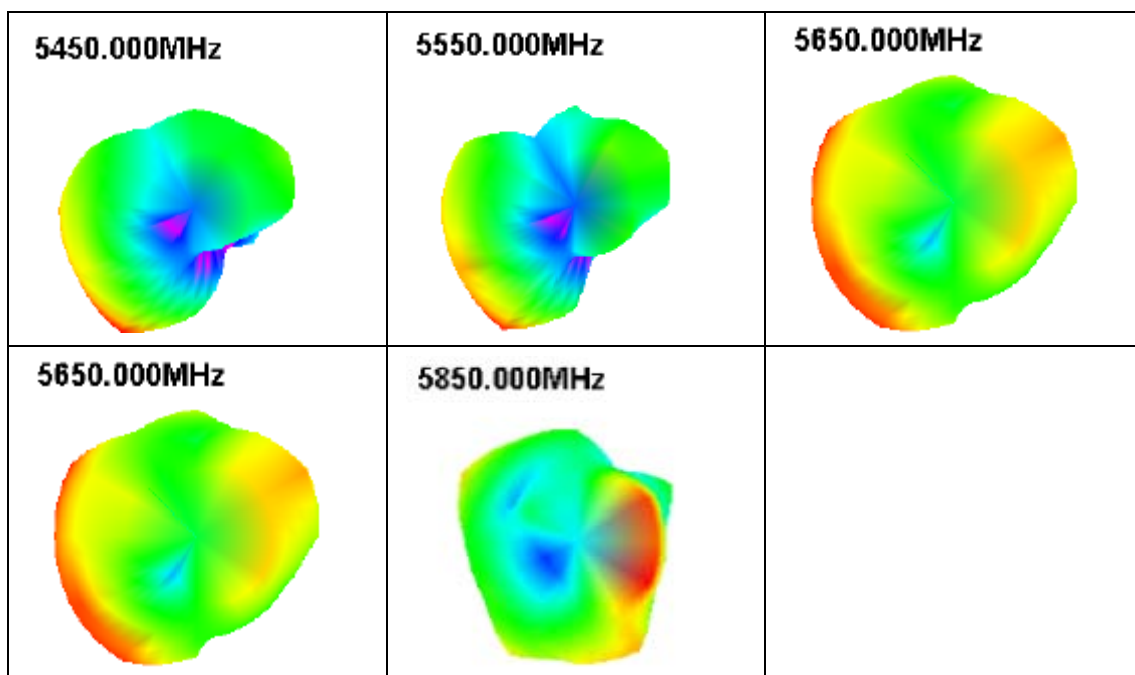
The gain of the antenna was measured in the Lxc's anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than -30 dB reflectivity from 300 MHz through 6 GHz and an 18" diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

Antenna - Radiation Pattern Test Data



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Freq	(Mhz)	2400	2410	2420	2430	2450	2460	2470	2480	2490	2450
Effi	(%)	41.52	41.22	45.74	43.36	40.47	39.52	42.11	47.01	42.69	47.10
Gain	(dBi)	1.01	2.3	0.89	1.45	2.50	2.23	1.63	0.63	2.01	1.81

Freq	(Mhz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700
Effi	(%)	43.33	42.20	39.01	39.66	40.01	41.25	42.33	43.58	45.58	47.33	46.33	45.71
Gain	(dBi)	0.85	0.58	0.63	1.22	1.56	2.50	2.33	2.41	2.21	1.71	1.58	0.98