



Test report

PART No. : 020252076-3070

PROJECT No.: 0307000

TITLE: Electrical test report

Electrical test report

By; Ohad Sne – RF Eng.

Date: 16-03-2005

Test equipment and materials:

1. E5071B Network Analyzer (full calibration).
2. Test fixture Ref.967

Electrical Tests procedure:

1. The antenna was tested for VSWR and Gain.
2. A matching circuit was design for the frequency bands optimization
3. The VSWR was tested with an appropriate band chokes.
4. The test setup introduced in figure 1.



Test report

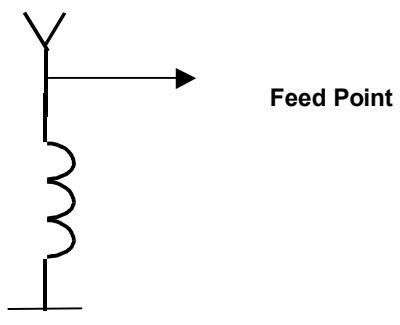
PART No. : 020252076-3070

PROJECT No.: 0307000

TITLE: Electrical test report

Matching circuit layout:

$L1=5.6\text{nH}$



TITLE: Electrical test report



Figure 1



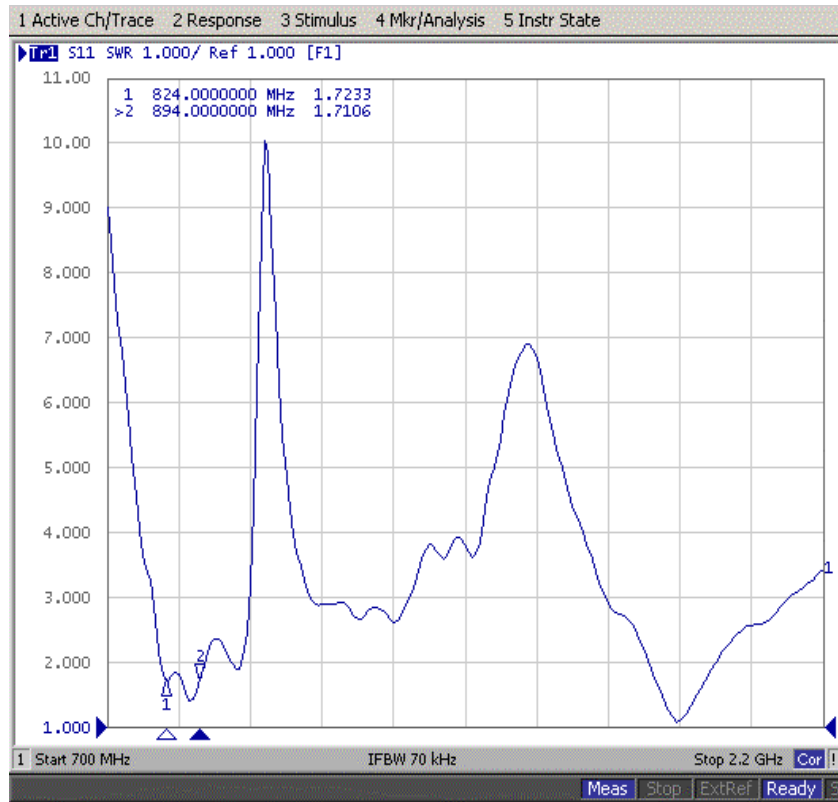
Test report

PART No. : 020252076-3070

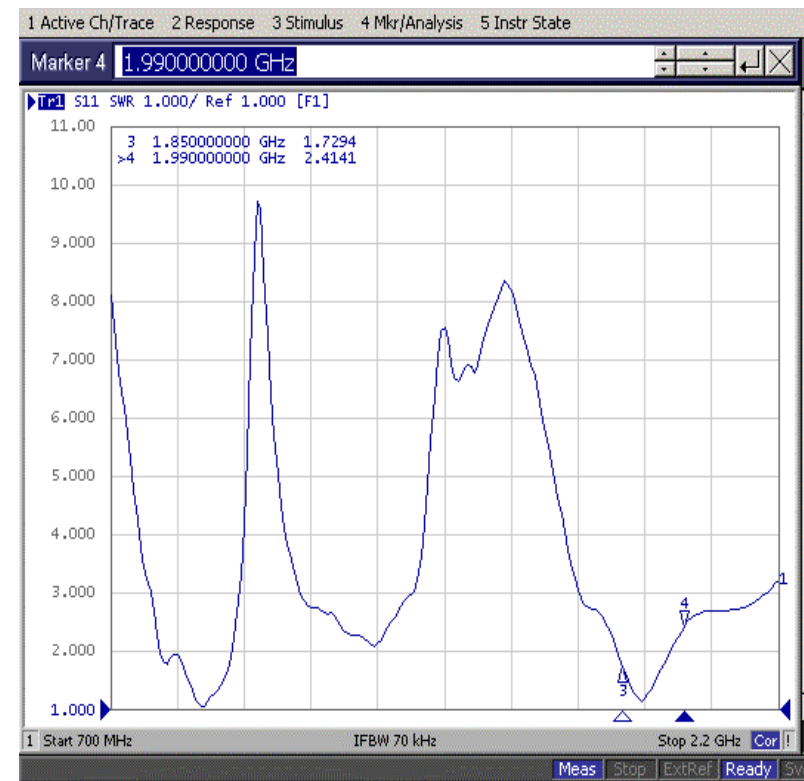
PROJECT No.: 0307000

TITLE: Electrical test report

VSWR RESULTS:



CDMA CHOKE



PCS CHOKE



Test report

PART No. : 020252076-3070

PROJECT No.: 0307000

TITLE: Electrical test report

Gain results

AZIMUTH			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	824MHz	849MHz	869MHz	894MHz	824MHz	849MHz	869MHz	894MHz
		FREE SPACE	-4.80	-3.41	-4.15	-4.04	-7.18	-6.95	-8.49	-6.98

FRONT BACK			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	824MHz	849MHz	869MHz	894MHz	824MHz	849MHz	869MHz	894MHz
		FREE SPACE	-4.46	-3.95	-5.76	-5.70	-9.43	-10.71	-12.38	-12.43

SIDE-SIDE			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	824MHz	849MHz	869MHz	894MHz	824MHz	849MHz	869MHz	894MHz
		FREE SPACE	-2.28	0.03	2.39	2.71	-9.37	-6.50	-4.38	-3.92



Test report

PART No. : 020252076-3070

PROJECT No.: 0307000

TITLE: Electrical test report

AZIMUTH			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	1850MHz	1910MHz	1930MHz	1990MHz	1850MHz	1910MHz	1930MHz	1990MHz
		FREE SPACE	0.44	-0.71	-1.30	-2.76	-3.26	-4.66	-5.15	-5.38

FRONT BACK			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	1850MHz	1910MHz	1930MHz	1990MHz	1850MHz	1910MHz	1930MHz	1990MHz
		FREE SPACE	-2.71	-2.07	-2.44	-2.68	-7.17	-6.94	-7.25	-8.24

SIDE SIDE			GAIN TEST RESULTS (dBi)							
File	Position	Phone position	1850MHz	1910MHz	1930MHz	1990MHz	1850MHz	1910MHz	1930MHz	1990MHz
		FREE SPACE	2.57	2.95	2.52	0.99	-4.50	-3.96	-4.04	-4.37