## C Technologies

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Prepared by	Date	Revision	Security Classification (External, Internal, Confidential, Secret)		
Jörgen Andersson	2011-01-26	А	Confidential		
Approved by	Archive		·		
Claes Levinsson	Antenna Meas	Antenna Measurements (ctech110003_a)			

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### **C-Pen Antenna Measurements**

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#### 1 Introduction

#### 1.1 Description

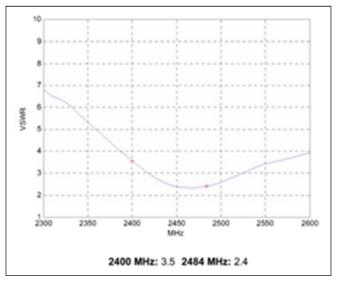
The module has been removed and a coax cable is soldered in at the pad that goes to the antenna feeding pad.

#### 1.2 Matching network

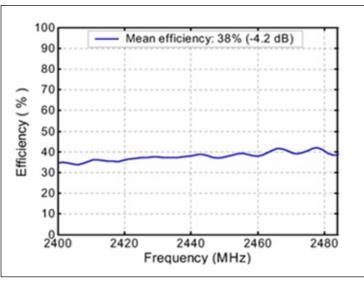
No matching network was included in the measurements in this report, but a matching network has been tested. Tests show that the impedance (matching) can be improved a little but the efficiency was only improved by 0.1 dB.

#### 2 Measurements

#### 2.1 VSWR Measurement



#### 2.2 Efficiency Measurement



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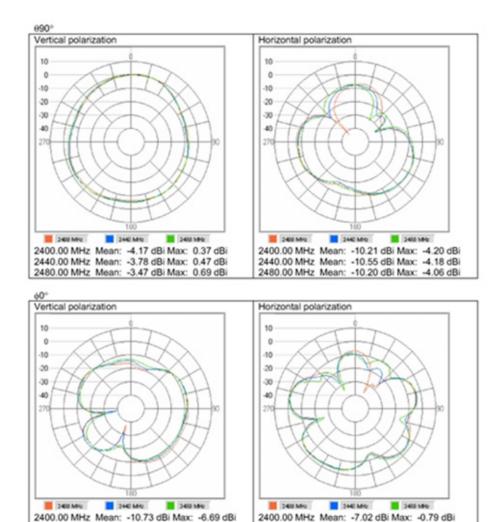
2440.00 MHz Mean: -7.06 dBi Max: -0.85 dBi 2480.00 MHz Mean: -6.74 dBi Max: -0.55 dBi Page No. Page 3 of 4

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#### 2.3 Radiation pattern

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2440.00 MHz Mean: -11.17 dBi Max: -7.58 dBi 2480.00 MHz Mean: -11.54 dBi Max: -7.58 dBi 2480.00 MHz Mean: -11.54 dBi Max: -7.89 dBi



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885	24.00 24.00 24.00 55.03 51.12.03 50.13		