



THE AMERICAN  
ASSOCIATION  
FOR LABORATORY  
ACCREDITATION

## ACCREDITED LABORATORY

A2LA has accredited

**ANRITSU COMPANY CALIBRATION SERVICE**  
**Richardson, TX**

for technical competence in the field of

### Calibration

This laboratory is accredited in accordance with the recognized International Standard **ISO/IEC 17025:2005** *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation also demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005).

Presented this 23<sup>rd</sup> day of May 2006



President  
For the Accreditation Council  
Certificate Number 2160.02  
Valid to April 30, 2008

For the calibrations to which this accreditation applies,  
please refer to the laboratory's Calibration Scope of Accreditation.



# American Association for Laboratory Accreditation

## SCOPE OF ACCREDITATION TO ISO 17025:2005 & ANSI/NCSL Z540-1-1994

ANRITSU COMPANY CALIBRATION SERVICES  
RICHARDSON FACILITY  
1155 East Collins Blvd.  
Richardson, TX 75081

Yeou-Song (Brian) Lee      Phone: 408 201 1976

### CALIBRATION

Valid To: April 30, 2008

Certificate Number: 2160.02

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

#### I. Electrical – RF/Microwave

Parameter/Range	Frequency	Best Uncertainty <sup>2</sup> (±)	Comments
Power Level –  (10 to -60) dBm 30 MHz to 40 GHz	30 MHz 50 MHz to 12 GHz (13 to 32) GHz (33 to 40) GHz	18 % 3.7 % 6.6 % 12 %	MA 247XA/B with ML 2437/8A  Direct power measurement (for type N, 2.92 mm and 1.85 mm connector)

Parameter/Equipment	Range	Best Uncertainty <sup>2</sup> (±)	Comments
Frequency –  GPS Disciplined Oscillator	10 MHz 40 GHz  10 MHz	1.2 Hz 1.5 Hz  5 parts in 10 <sup>12</sup>	MF241X, direct readings

*Peter Nguyen*



Parameter/Equipment	Range	Best Uncertainty <sup>2</sup> (±)	Comments
Audio Level	3 mV to 500 V (20 Hz to 100 kHz)	5.7 %	R&H URE3 and Tek TDS3000B, direct measurement
BER/FER –			MT885X, direct measurement
Single Slot BER	0 to 100 %	0.08 %	
Single Slot FER	0 to 100 %	8 %	100 Frames/CDMA

<sup>1</sup> This laboratory offers commercial calibration service.

<sup>2</sup> “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.

*Peter M. Meyer*