



**THE AMERICAN
ASSOCIATION
FOR LABORATORY
ACCREDITATION**

ACCREDITED LABORATORY

A2LA has accredited

**ANRITSU COMPANY CANADIAN
CALIBRATION SERVICE CENTER
Kanata, Ontario, CANADA**

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 19th day of July 2006



President
For the Accreditation Council
Certificate Number 2160.04
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-Canadian Service Center
700 Silver Seven Road, Suite 120
Kanata Ontario K2V1C3 Canada

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

CALIBRATION

Valid To: April 30, 2008

Certificate Number: 2160.04

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Electrical – RF/Microwave

Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
S Parameters – Magnitude and Phase for S11, S12, S21, S22	10 MHz to 40 GHz		37XXX and 360 with 3663/3653, 3666/3650-1, 3667/3651-1, 3668/3652-1
Airline: S11/S22 S12/S21		<i>M</i> /0.025 (lin); <i>P</i> /20 <i>M</i> /0.18 dB; <i>P</i> /20	
Beatty Airline: S11/S22 S12/S21		<i>M</i> /0.08 (lin); <i>P</i> /20 <i>M</i> /0.18 dB; <i>P</i> /20	MS 462X with 3663R/3753R, 3666R/3750R 3667R/3751R
20 dB Attenuation: S11/S22 S12/S21		<i>M</i> /0.025 (lin); <i>P</i> /20 <i>M</i> /0.18 dB; <i>P</i> /20	<i>M</i> : magnitude; <i>P</i> : phase
40/50 dB Attenuation: S11/S22 S12/S21 S12/S21		<i>M</i> /0.025 (lin); <i>P</i> /20 <i>M</i> /0.23 dB; <i>P</i> /20 <i>M</i> /0.55 dB	

(A2LA Cert. No. 2160.04) 07/19/2006

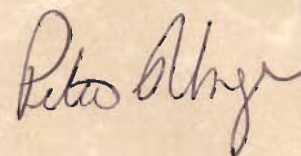
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Parameter/Equipment	Range	Best Uncertainty ² (±)	Comments
Optical Wavelength	(0.6 to 1.6) μm	3 pm	MF 9630A/MG9601A
Frequency – GPS Disciplined Oscillator			
Measuring Equipment	10 MHz	5×10^{-12}	Aging rate; ET6000- RB1
Measure	10 MHz 50 GHz	2.4 Hz 2.4 Hz	EIP 578 options 41 and 42

¹ This laboratory offers commercial calibration service.

² “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.





*Joint ISO-ILAC-IAF Communiqué
on the
Management Systems Requirements of ISO/IEC 17025:2005,
General Requirements for the competence of testing and calibration
laboratories*

A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid test results and calibrations. The **management system requirements** in ISO IEC 17025 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2000 **Quality Management Systems – Requirements** and are aligned with its pertinent requirements.

A stylized, handwritten signature in black ink, consisting of a large loop and a cross-like stroke.

ISO Secretary General

ILAC Chair

A handwritten signature in black ink, appearing to be "J. J. ...".

IAF Chair

2005-06-18