



**National Voluntary  
Laboratory Accreditation Program**



**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005**

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**CALIBRATION LABORATORIES**

**NVLAP LAB CODE 200706-0**

*NVLAP Code:* 20/A01                      ANSI/NCSL Z540-1-1994; Part 1                      Compliant

**THERMODYNAMICS**

*NVLAP Code:* 20/T07  
Resistance Thermometry

<i>Range in °C</i>	<i>Best Uncertainty (±)in mK <sup>note 1</sup></i>	<i>Remarks</i>
High Quality PRT by comparison to SPRT		
-196	5.2	LN2 Bath
-80 to 20	5.1	Refrigerated Liquid Bath
0/0.01	3.4	Ice Bath
20 to 250	6.9	Heated Fluid Bath
250 to 500	17	Salt Bath
Digital Thermometer with PRT System by comparison with SPRT		
-196	5.2	LN2 Bath
-80 to 20	5.1	Refrigerated Liquid Bath
0/0.01	3.4	Ice Bath
20 to 250	6.9	Heated Fluid Bath
250 to 500	17	Salt Bath

2009-10-01 through 2010-09-30

*Effective dates*

*Sally S. Bruce*

*For the National Institute of Standards and Technology*



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## CALIBRATION LABORATORIES

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SPRT at the TPW using a TPW cell		
0.01	1.6	TPW Cell
Any PRT at the Ice Point using an Ice Bath		
0/0.01	25	Ice Bath
Any PRT by comparison to SPRT		
-196	25	LN2 Bath
-80 to 20	25	Refrigerated Liquid Bath
0/0.01	25	Ice Bath
20 to 250	25	Heated Fluid Bath
250 to 500	25	Salt Bath

1. Represents an expanded uncertainty using a coverage factor,  $k = 2$ , at an approximate level of confidence of 95 %.

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