



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Certificate #

0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: YSI 35
Description: CONDUCTANCE METER
Serial No: 90D014379
Asset No: 001445
Procedure: YSI CONDUCTANCE METER, JAN/03

Work Order: 303067710
Date Issued: Feb 8, 2006
Calibration Date: Feb 8, 2006
***Calibration Due:** Feb 8, 2007
Calibration Location: Bldg. 64
Environment: Temp. 72.0°F Hum. 40 %RH
****Data Type:** FOUND-LEFT

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of $k=2$ to approximate a 95% confidence level.

Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
000108	7993	GENERAL RADIO	1433G	DECADE RESISTOR	Mar 24, 06
000184	27002	GENERAL RADIO	1433-T	DECADE RESISTOR	May 17, 06
001505	2823A07741	HEWLETT-PACKARD	3458A/OPT-002	MULTIMETER	Mar 24, 06

Reviewed by: blt () jrg () pwc () wgh ()
Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Mike Young
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303067710	Mfr.	YSI	Technician	msy
Asset No.	001445	Model	35		
Serial No.	90D014379	Type.	CONDUCTANCE METER	Cal Date.	08-Feb-06
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
uOhm	uOhm	uOhm	uOhm	uOhm	uOhm	Result
20.00	10.00	10.01	0.01	0.05	0.012	Pass
200.0	100.0	100.0	0.0	0.5	0.12	Pass
2000	1000	1000	0	5.0	1.2	Pass
mOhm	mOhm	mOhm	mOhm	mOhm	mOhm	
20.00	10.00	10.00	0.00	0.05	0.012	Pass
200.0	100.0	100.0	0.0	0.5	0.12	Pass
2000	1000	999	-1	20	1.2	Pass
END OF REPORT						