



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory  
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Calibration Laboratory  
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 35 11 JULY 06

Work Order: 303073583

Date Issued: Mar 20, 2007

Calibration Date: Mar 20, 2007

\*Calibration Due: Mar 20, 2008

Calibration Location: Bldg. 64

Environment: Temp. 70.0°F Hum. 45 %RH

\*\*Data Type: FOUND-LEFT

DivID/Location: N/A

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, 2005, 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
007001	2823A21362	HEWLETT-PACKARD	3458A/OPT 002	MULTIMETER	Feb 26, 08
000184	27002	GENERAL RADIO	1433-T	DECADE RESISTOR	Apr 24, 07
000185	26851	GENERAL RADIO	1433G	DECADE RESISTOR	Mar 05, 09

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

Metrology Technician

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

Measurements by: Joe Greagrey

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303073583	Mfr.	YSI	Technician	JRG
Asset No.	001445	Model	35	Cal Date.	20-Mar-07
Serial No.	90D014379	Type.	CONDUCTANCE METER		

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	100.1	0.1	0.5	0.12	Pass
2000	1000	1001	1	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	1004	4	20	1.2	Pass

END OF REPORT