

## SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510 Institute Quality Systems Institute Calibration Laboratory Phone: 210-522-5215 Fax 210-522-4834



Calibration Laboratory Certificate #0972-01

## Certificate of Calibration

Cost Center / Customer: DIV20 / DON BANNON

Mail Stop: B51

Manufacturer/Model: HEWLETT-PACKARD / 34908A

Description: MULTIPLEXER, 40 CHANNEL

Serial Number: US37001387

Asset Number: 015560

Procedure: AGILENT 34970A - 21 MAR 06

Work Order: 303092672

Date Issued: 11-Feb-2010

Date Calibrated: 11-Feb-2010

\* Date Due: 11-Feb-2011

\*\* Results: FOUND-LEFT

Temperature: 71.0 °F

Humidity: 40 %RH

Barometer: 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. \*\*Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of k=2.

Remarks: Thermocouple reference junction calibrated only.

## Standards Used

Asset #	<u>Manufacturer</u>	Model	Description	Cal Date	<b>Due Date</b>
006413	FLUKE	5520A/SC1100	MULTI-PRODUCT CALIBRATOR	27-Jan-2010	27-Jan-2011

Laboratory Manager m:\A2LA OCT\_08.rpt

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oe Greagrey Metrology Technician

## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303092672	Mfr:	HP	Technician:	JRG
Asset No:	015560	Model:	34908A	Type Data:	Found-left
Serial No:	US37001387	Type:	Multiplexer	Cal Date:	11-Feb-10
Remarks:					

Function/Range TC Ref. Junction	Test Point °C	TI Reading °C	Difference °C	± Limit °C	± Uncertainty °C	Result	% Limit
Type J TC	0.00	0.20	0.2000 DE REPORT	1.00	0.21	Pass	20%