

SOUTHWEST RESEARCH INSTITUTE®

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0972-01

Certificate of Calibration

Submitted By: DIV20 Address: B57

Contact: DON BANNON Manufacturer Model: ORION EA940

Description: EXPANDABLE IONANALYZER

Serial No: 4274 **Asset No:** 003325

Procedure: ORION EA940 - 26 APR. 2006

Work Order: 303071460
Date Issued: Nov 6, 2006
Calibration Date: Nov 6, 2006
*Calibration Due: May 6, 2007

*Calibration Due: May 6, 2007 Calibration Location: Bldg. 64

Environment: Temp. 73.8°F Hum. 43 %RH

**Data Type: FOUND-LEFT

DivID/Location:

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: mV Cal Only

Standards Used

١	Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
	004164	6380025	FLUKE	5500A/SC300	CALIBRATOR	Jul 21, 07

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

Metrology Technician

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

Measurements by: Perry Carpenter

Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

303071460	Mfr:	ORION	Technician:	PWC					
003325	Model:	EA940							
4274	Туре:	ION ANALYZER	Cal Date:	06-Nov-06					
Remarks:									
LIMITED CAL: mVolts Only									
	003325	003325 Model: 4274 Type:	003325 Model: EA940 4274 Type: ION ANALYZER	003325 Model: EA940 4274 Type: ION ANALYZER Cal Date:					

Function	n/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Ch	1 1	mVolts	mVolts	mVolts	mVolts	mVolts	Result
		1900.0	1900.3	0.3	1.0	0.12	Pass
		-1900.0	-1900.1	-0.1	1.0	0.12	Pass
Ch	12	mVolts	mVolts	mVolts	mVolts	mVolts	
		1900.0	1900.3	0.3	1.0	0.12	Pass
		-1900.0	-1900.2	-0.2	1.0	0.12	Pass
END OF REPORT							