

## SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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## **Certificate of Calibration**

0972-01

Submitted By: DIV20

Address: B57

Contact: DON BANNON
Manufacturer Model: ORION EA 920

**Description:** EXPANDABLE IONANALYZER

Serial No: TV64A

Asset No: 005352

Procedure: CL-79, JUN/99

**Work Order:** 303065338

Date Issued: Sep 9, 2005

Calibration Date: Sep 9, 2005

\*Calibration Due: Sep 8, 2006

Calibration Location: Bldg. 64

Environment: Temp. 72.0°F Hum. 38 %RH

\*\*Data Type: AS-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: Limited Cal:CH1 mVolts Only

## Standards Used

ı	Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
	000182	5200003	FLUKE	5700A/EP	CALIBRATOR	Sep 23, 05

Reviewed by: blt ()
Metrology Technician

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

Measurements by: Bob Trollinger

Metrology Technician

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## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303065338	Mfr:	ORION	Technician:	blt	
Asset No:	005352	Model:	EA 920			
Serial No:	TV64A	Type:	ION ANALYZER	Cal Date:	09-Sep-05	
Remarks:				• • • • • • • • • • • • • • • • • • • •		
LIMITED CAL: CH 1 ONLY						
	LIMITED CAL: mVolts Only					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Left
Ch 1	mVolts	mVolts	mVolts	mVolts	mVolts	Result
	1000.0	999.9	-0.1	1.0	0.12	Pass
	-1000.0	-1000.2	-0.2	1.0	0.12	Pass
END OF REPORT						