

**CERTIFICATE OF CALIBRATION**



Certificate No. ACT-1272

<b>CERTIFICATION NUMBER</b>	CP134-00353-840	<b>IDENTIFICATION</b>	EL-026A
<b>FOR</b>	Sample Manufacturing 3121 Medalist Drive Oshkosh, WI 54902	<b>SERIAL NUMBER</b>	353
<b>TEST INSTRUMENT</b>	Analyzer Antenna	<b>PURCHASE ORDER #</b>	
<b>MAKE</b>	Anritsu	<b>PROCEDURES FOLLOWED</b>	EL-026A rev. 1
<b>MODEL</b>	S820E		
<b>RANGE</b>	na		
<b>CUSTOMER LOCATION</b>	Location1 Location2	<b>STANDARDS USED</b>	
<b>CONDITION RECEIVED</b>	In Tolerance	<b>INSTRUMENT</b>	<b>SERIAL NUMBER</b>
<b>CONDITION RETURNED</b>	In Tolerance	FRF-012	MY50006339
<b>CALIBRATED BY</b>	Brian L Gliszinski	FVS-275E	16783134
<b>REVIEWED/ISSUED</b>	D.P. 07/29/2025	TRF-025	3217A12976
<b>CALIBRATION LOCATION</b>	FVM		
<b>ENVIRONMENT</b>	69.0°F, 31.0%RH, 28.92inHg		
<b>CALIBRATION DATE</b>	05/14/2025		
<b>RECALIBRATION DUE</b>	05/14/2026		



**CALIBRATION RESULTS**

\* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
CW Measurement	(GHz) 1.000000	(GHz) 0.999995	(GHz) 1.000005	(GHz) 1.000000	(GHz) 1.000000	(GHz) 6.0E-7
Return Loss	(dB) 20.0 6.0	(dB) 18.3 4.8	(dB) 21.7 7.2	(dB) 20.0 6.0	(dB) 20.0 6.0	(dB) 6.0E-2 6.0E-2
Power Monitor Measurement (Option 5 Only)	(dBm) 0.0 -40.0	(dBm) -1.0 -42.0	(dBm) 1.0 -38.0	(dBm) 0.0 -40.0	(dBm) 0.0 -40.0	(dBm) 6.0E-2 6.0E-2
Two Port Cable Loss (Option 22)						
CW Power	M1 < 15dBm M2 > -15dBm	M1 < 15dBm M2 > -15dBm	M1 < 15dBm M2 > -15dBm	Pass Pass	Pass Pass	
CW Frequency	(GHz) 2.75000000	(GHz) 2.74999175	(GHz) 2.75000825	(GHz) 2.75000005	(GHz) 2.75000005	(GHz) 6.0E-9

**COMMENTS**

Example certificate, actual results and uncertainties will be reported at the time of calibration. Nominal and limits may vary based on actual make/model.

## Fox Valley Metrology

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- This certificate shall not be altered in any form or reproduced, except in full, without prior written approval from originating lab. These results relate only to the item(s) calibrated. Form Revision 10: 06/04/2024
  - Total expanded measurement uncertainties expressed are based on a confidence level of 95%; coverage factor of (k=2). The statement of compliance in this certificate was issued without taking the uncertainty of measurement into consideration. The customer shall assess the results and uncertainty when determining if the results meet their needs. (This is considered "shared responsibility.") Uncertainties expressed in nominal units.
  - The calibrations within the certificate/report are traceable through NIST or another National Metrology Institute to the International System of Units (SI). Calibration was completed in accordance with ISO/IEC 17025:2017, ANSI/NCSL Z540-1-1994 and ANSI/NCSL Z540.3-2006. Other standards listed upon request.
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