Fox Valley Metrology
3114 Medalist Drive
Oshkosh, WI 54902
(920) 426-5894 • Fax (920) 426-8120
https://www.FoxValleyMetrology.com

CERTIFICATE OF CALIBRATION

ilac-MRA
ANAB
ANSI National Accreditation Board
ACCREDITED
ISO/IEC 17025
CALIBRATION AND DIMENSIONAL MEASUREMENT
Certificate No. ACT-1272

CERTIFICATION NUMBER CP134-00180-840

FOR Sample Manufacturing
3121 Medalist Drive
Oshkosh, WI 54902

TEST INSTRUMENT Power Meter

MAKE Keysight
MODEL E4418B
CUSTOMER LOCATION Location1
Location2

CONDITION RECEIVED In Tolerance
CONDITION RETURNED In Tolerance
CALIBRATED BY Brian L Gliszinski
REVIEWED/ISSUED D.P. 07/29/2025
CALIBRATION LOCATION FVM
ENVIRONMENT 69.0°F, 31.0%RH, 28.92inHg
CALIBRATION DATE 05/14/2025
RECALIBRATION DUE 05/14/2026

IDENTIFICATION EL-023B
SERIAL NUMBER 180
PURCHASE ORDER #

PROCEDURES FOLLOWED

EL-000A rev. 0
EL-023B rev. 1

STANDARDS USED

INSTRUMENT	SERIAL NUMBER	TRACE NUMBER	NEXT CAL
FRF-025A	122096	CO277-38071-693	09/30/2025
FRF-025B	102128	CO277-36196-693	09/30/2025
FRF-025C	101075	CO277-36367-693	09/30/2025

CALIBRATION RESULTS

* DENOTES "OUT OF TOLERANCE"

FEATURE	NOMINAL	LOWER LIMIT	UPPER LIMIT	AS FOUND	AS LEFT	UNCERTAINTY
Self-Test						
ZERO TEST						
0.00 nW	0	-76	76	0	0	6.0E-1
POWER METER ACCURACY TEST						
3.165 µW	3.165	3.100	3.230	3.165	3.165	6.0E-4
10.000 µW	10	10	10	10	10	6.0E-1
31.60 µW	31.6	31.4	31.8	31.6	31.6	6.0E-2
100.00 µW	100	100	101	100	100	6.0E-1
316.0 µW	316	314	318	316	316	6.0E-1
1.000 mW	1	1	1	1	1	6.0E-1
3.156 mW	3.156	3.141	3.171	3.156	3.156	6.0E-4
10.030 mW	10.03	9.98	10.08	10.03	10.03	6.0E-3
31.78 mW	31.78	31.63	31.94	31.78	31.78	6.0E-3
101.3 mW	101.3	100.9	101.8	101.3	101.3	6.0E-2
REFERENCE OUTPUT TESTS						
Frequency Accuracy						
50.0 MHz	50	50	51	50	50	6.0E-1
Level Accuracy						
1.000 mW	1	1	1	1	1	6.0E-1

Reviewed

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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.

■ 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.