



MICRO PRECISION CALIBRATION, INC
 17072 Tye St, SE Suite #170
 Monroe WA 98272
 425-821-0902

Certificate of Calibration

Date: Jul 30, 2019

Cert No. 551220083136903

Customer:

CITY OF LAKEWOOD
 9401 LAKEWOOD DR SW
 LAKEWOOD WA 98499

MPC Control #: QIE40038
 Asset ID: N/A
 Gage Type: SOUND CALIBRATOR
 Manufacturer: QUEST TECHNOLOGIES
 Model Number: QC-10
 Size: 114 dB @ 1 kHz
 Temp/RH: 68.0°F / 49.0%
 Location: Calibration performed at MPC facility

Work Order #: STL-47780
 Purchase Order #: 001597
 Serial Number: QIE40038
 Department: N/A
 Performed By: KALLE OSTHEIMER
 Received Condition: IN TOLERANCE
 Returned Condition: IN TOLERANCE
 Cal. Date: July 25, 2019
 Cal. Interval: 12 MONTHS
 Cal. Due Date: July 25, 2020

Calibration Notes:

Test Points

Seq.	Description	Standard	Tolerance -	Tolerance +	As Found	As Left	UOM	Result
1	114 dB @ 1 kHz	114.0	113.7	114.3	114.0	114.0	dB	Passed

Standards Used to Calibrate Equipment

I.D.	Description.	Model	Serial	Manufacturer	Cal. Due Date	Traceability #
CR0694	SOUND LEVEL CALIBRATOR	1986 OMNICAL	01611	GENRAD	Jul 31, 2019	551220081463780
CX9289	DATALOGGING SOUND LEVEL METER	HD600	160701657	EXTECH INSTRUMENTS	Jul 31, 2020	551220081468651

Procedures Used in this Event

Procedure Name	Description
MPC-SLC-001 Rev. 00	ACOUSTICAL CALIBRATORS USING SOUND LEVEL METER AS TRANSFER STANDARD, JUNE-1-2017, rev00

Calibrating Technician:

KALLE OSTHEIMER

QC Approval:

MIKE BURROUGHS

Statements of Pass or Fail Conformance: The uncertainty of measurement has been taken into account when determining compliance with specification, as per IAC-GB-03/2009. All measurements and test results guard banded to ensure the probability of false-accept does not exceed 2% in compliance with ANSI/NCSL Z540.3-2006.
 The status of compliance with the acceptance criteria is reported as:
PASS - Compliant with specification.
FAIL - Not compliant with specification.
FAIL² - The measured value is not within the acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% is within the specified tolerance.
PASS² - The measured value is within acceptance limits. However, a portion of the expanded uncertainty of measurement at 95% exceeds the specified tolerance.
 The expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%, unless otherwise stated. This calibration report complies with ISO/IEC 17025:2017 and ANSI/NCSL Z540.3 Method 6-Guard Bands based on Test Uncertainty Ratio. Calibration cycles and resulting due dates were submitted/approved by the customer. Any number of factors may cause an instrument to drift out of tolerance before the next scheduled calibration. Recalibration cycles should be based on frequency of use, environmental conditions and customer's established systematic accuracy. All standards are traceable to SI through the National Institute of Standards and Technology (NIST) and/or recognized national or international standards laboratories. Services rendered include proper manufacturer's service instruction and are warranted for no less than thirty (30) days. The information on this report pertains only to the instrument identified, this may not be reproduced in part or in a whole without the prior written approval of the issuing MP Calibration Laboratory.