

Schedule

Absolute Laboratories Pte Ltd
11 Kallang Place
#06-01
Singapore 339155

Certificate No. : LA-2015-0589-C
Issue No. : 11
Date : 20 July 2026
Expiry of Certificate : 16 April 2027
Page : 1 of 7

ACCREDITATION STANDARD: ISO/IEC 17025:2017
FIELD OF TESTING: Calibration and Measurement

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
A. Vibration and Acoustics 1. Sound Level Meter and Noise Analyser In-house procedure WI-47 (Rev 7)	a. Acoustic Response	
	94 dB & 114 dB	
	125 Hz	0.3 dB
	250 Hz	0.2 dB
	500 Hz	0.2 dB
	1000 Hz	0.2 dB
	2000 Hz	0.3 dB
	4000 Hz	0.3 dB
	8000 Hz	0.4 dB
	b. Electrical Response	
	i. "A" weighting	0.2 dB
	63 Hz	0.2 dB
	125 Hz	0.2 dB
	250 Hz	0.2 dB
	500 Hz	0.2 dB
	1000 Hz	0.2 dB
	2000 Hz	0.2 dB
	4000 Hz	0.2 dB
	8000 Hz	0.2 dB
	16000 Hz	0.2 dB
	ii. Linearity Test	0.2 dB
	125.0 dB	0.2 dB
	119.0 dB	0.2 dB
	114.0 dB	0.2 dB
	109.0 dB	0.2 dB
	104.0 dB	0.2 dB
	99.0 dB	0.2 dB

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 2 of 7

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
2. Sound Calibrator 2.1 Using reference mic & meter In-house procedure WI-11 (Rev 6)	94.0 dB 89.0 dB 84.0 dB 79.0 dB	0.2 dB 0.2 dB 0.2 dB 0.2 dB
	a. Acoustic Response 94 dB & 114 dB 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz b. Electrical Output 1000 mV AC 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz	0.28 dB, 0.09 Hz 0.24 dB, 0.16 Hz 0.24 dB, 0.29 Hz 0.24 dB, 0.58 Hz 0.24 dB, 1.2Hz 0.24 dB, 2.4Hz 0.28 dB, 4.7 Hz 0.28 dB, 9.3 Hz 1.1 mV AC 0.09 Hz 0.16 Hz 0.29 Hz 0.58 Hz 1.2 Hz 2.4Hz 4.7 Hz 9.3Hz
2.2 Using B&K Microphone System In-house procedure WI-44 (Rev 4)	a. Acoustic Response 94 dB & 114 dB 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz	0.18 dB, 0.09 Hz 0.18 dB, 0.16 Hz 0.18 dB, 0.29 Hz 0.18 dB, 0.58 Hz 0.18 dB, 1.2 Hz 0.18 dB, 2.4Hz 0.18 dB, 4.7Hz 0.19 dB, 9.3Hz

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 3 of 7

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
3. Geophone In-house procedure, WI-67 (Rev 1) a. Transverse Axis b. Longitudinal Axis	b. Electrical Output 1000 mV AC 63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz	1.1mV AC 0.09 Hz 0.16 Hz 0.29 Hz 0.58 Hz 1.2Hz 2.4 Hz 4.7 Hz 9.3 Hz
	25.4 mm/sec @ 2 Hz 25.4 mm/sec @ 4 Hz 25.4 mm/sec @ 10 Hz 25.4 mm/sec @ 80 Hz 25.4 mm/sec @ 125 Hz 25.4 mm/sec @ 250 Hz c. Vertical Axis 25.4 mm/sec @ 2 Hz 25.4 mm/sec @ 4 Hz 25.4 mm/sec @ 10 Hz 25.4 mm/sec @ 80 Hz 25.4 mm/sec @ 125 Hz 25.4 mm/sec @ 250 Hz d. Power Supply Test i. 6V Power Supply Current ii. Signal Comm Ground Current	2.8 % 2.7 % 2.2 % 1.7 % 1.2 % 1.5 % 2.8 % 2.7 % 1.4 % 1.9 % 1.6 % 1.6 % 2.3 µA 2.3 µA

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 4 of 7

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
4. Personal Sound Exposure Meters In-house procedure, WI-06 (Rev 5)		
4.1 Using Quest-Cal		
a. Acoustic Response	114dB at 1000Hz 94dB at 1000Hz	0.3 dB 0.3 dB
b. Acoustic signal tests of frequency weighting "A"	125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz	0.3 dB 0.3 dB 0.3 dB 0.3 dB 0.3 dB 0.3 dB
c. Linearity Test of Electrical Response	125.0 dB 119.0 dB 114.0 dB 109.0 dB 104.0 dB 99.0 dB 94.0 dB 89.0 dB 84.0 dB 79.0 dB	0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB
4.2 Using B&K Type 4226		
a. Acoustic Response	114dB at 1000Hz 94dB at 1000Hz	0.2 dB 0.2 dB

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 5 of 7

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
b. Acoustic signal tests of frequency weighting "A"	63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz	0.3 dB 0.3 dB 0.2 dB 0.2 dB 0.2 dB 0.3 dB 0.3 dB 0.4 dB
c. Linearity Test of Electrical Response	125.0 dB 119.0 dB 114.0 dB 109.0 dB 104.0 dB 99.0 dB 94.0 dB 89.0 dB 84.0 dB 79.0 dB	0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB 0.2 dB
5. Accelerometer In-house procedure, WI-68 (Rev 1)	2 Hz 4 Hz 10 Hz 15 Hz 30 Hz 60 Hz 80 Hz 100 Hz 125 Hz 160 Hz	2.9 % 2.8 % 1.9 % 1.9 % 1.7 % 1.8 % 2.2 % 2.1 % 2.0 % 1.9 %

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 6 of 7

SCOPE / INSTRUMENTS / LOCATION / METHOD	RANGE TO BE CALIBRATED / MEASURED QUANTITIES / FREQUENCY	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
	250 Hz 315 Hz 350 Hz 500 Hz	2.2 % 2.1 % 2.3 % 1.9 %
6. Octave Band Filter In-house procedure, WI-19 (Rev 2) Relative Attenuation a. 1/1 Octave Band Filter b. 1/3 Octave Band Filter	31.5 Hz to 16000 Hz 20Hz to 20000 Hz	0.2 dB 0.2 dB
7. Sound Level Meter and Noise Analyzer on-site calibration In-house procedure, WI-70 (Rev 0)	Acoustic Response 94dB & 114dB 1000 Hz	0.3 dB
B. Temperature 1. Thermometer and Platinum Resistors calibration In-house procedure, WI-72 (Rev 0) Comparison with Ref. PRT	-35°C 0°C -30°C to 165°C	0.11 °C 0.1 °C 0.1 °C

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95 %.

Schedule



Certificate No. : LA-2015-0589-C

Issue No. : 11

Date : 20 July 2026

Page : 7 of 7

Approved signatories

Mr Ng Teck Sing	Full Scope
Mr Rodrigo Manansala	Full Scope
Mr Ang Siong Cheaw	Items A3, A5
Mr Han Chun Keong	Items A1, A2, A4, A6, A7, & B1

Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibration results. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.