



Prism Sound Calibration standards

Rev 1.2, updated 2009 for new address.

Rev 1.1, 19 September 2006;

This document provides evidence of traceability for calibration of Prism Sound dScope Series III and DSA-1 instruments

Prism Sound dScope Series III and DSA-1 instruments are calibrated using only two calibration references: one for time/frequency and the other for voltage. The calibrated accuracy of both references are traceable to national or international standards. All other internal calibrations are performed by software and reference the common time/frequency and voltage standards.

1. (Voltage reference) Agilent 34401A DMM, serial number MY44000205.

UKAS (United Kingdom Accreditation Service) calibration certificate: proving traceability of measurement to recognised national standards, and to units of measurement realised at the UK National Physical Laboratory (NPL) or other recognised national standards laboratories.

Calibration accuracy at relevant reference voltage exceeds quoted voltage accuracy of dScope Series III by more than one order of magnitude.

<http://www.home.agilent.com/USeng/nav/-11250.0/pc.html>

<http://www.npl.co.uk/>

<http://www.ukas.co.uk/>

2. (Time/frequency reference) Quartzlock 2A-W low-frequency receiver, serial number 20013, locked to France Inter, Allouis 162kHz frequency reference.

Allouis beacon is caesium derived and traceably maintained within long-term accuracy exceeding quoted frequency accuracy of dScope Series III by ten orders of magnitude.

2A-W receiver has short-term frequency accuracy exceeding quoted frequency accuracy of dScope Series III and DSA-1 by four orders of magnitude.

<http://www.quartzlock.com/cgi-bin/servepage.cgi?usr=21034&page=2a>

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