

Notes on calibration

Introduction

These notes summarize the calibration procedure used for the bench detector.

Method

Each run starts from a cold detector and follows the steps of the previous chapter.

Reference compound

Caffeine is used as the reference compound because its response is stable across the temperature range of interest.

Results

The response was linear in the measured range, with a slope of $k = 0.42 \text{ mV/K}$ and an intercept indistinguishable from zero.