

5. Verify Calibration Using TCAT-100 in Pulsed Mode

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To verify calibration coefficients obtained from the Calibration module:

1. Set up a test sample the same way as for a standard calibration run.
2. Launch the Pulsed Mode software and select the **TCAT-100** as the output device.
3. Select to read back the thermocouple. This lets the software simultaneously display the thermocouple signal alongside the Thermorefectance or Infrared measurement data.
4. Compare results: the calibrated IR camera results should closely overlap the thermocouple results. [diagram/image in source — not reproduced here: Figure 13, pulsed-mode operation on the Microsanj test sample; Figure 14, final calibrated measurement in Pulsed Imaging mode]

“ **Note:** The thermocouple used with the TCAT module has a response time of approximately 0.5 seconds, so it may be necessary to lengthen the time scale to view an accurate response.

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