



**NIST Technical Note 2146**

# **Recalibration Intervals for Radiation Detection Instruments**

L. Pibida  
*Radiation Physics Division  
Physical Measurement Laboratory*

B. Estes  
M. Mejias  
*Gaithersburg Radiation Safety Division  
Office of Safety, Health, and Environment*

G. Klemic  
*National Urban Security Technology Laboratory  
Department of Homeland Security*

This publication is available free of charge from:  
<https://doi.org/10.6028/NIST.TN.2146>

April 2021



U.S. Department of Commerce  
*Gina M. Raimondo, Secretary*

National Institute of Standards and Technology  
*James K. Olthoff, Performing the Non-Exclusive Functions and Duties of the Under Secretary of Commerce  
for Standards and Technology & Director, National Institute of Standards and Technology*



















































- [5] ANSI N42.14. American National Standard for Calibration and Use of Germanium Spectrometers for the Measurement of Gamma-Ray Emission Rates of Radionuclides.
- [6] IEC 61452. Nuclear Instrumentation – Measurement of Gamma-Ray Emission Rates of Nuclide – Calibration and Use of Germanium Spectrometers.