

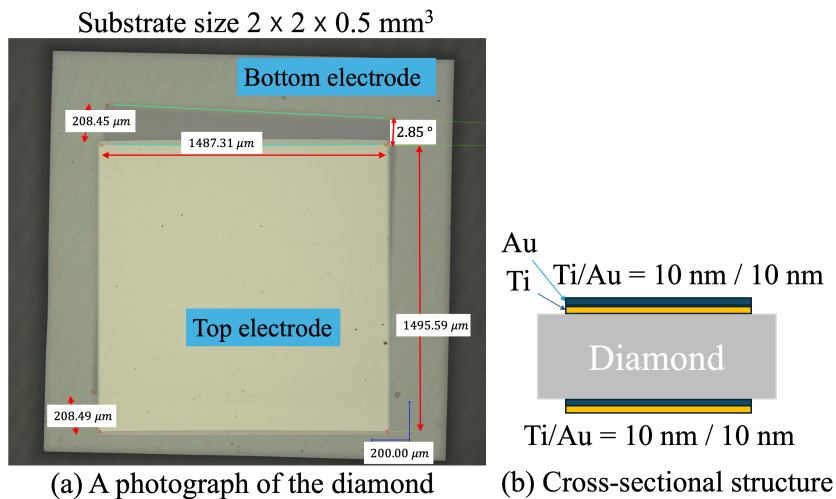


Figure 1. (a) A photograph of the diamond, (b) A sketch of a cross-sectional view of the diamond.

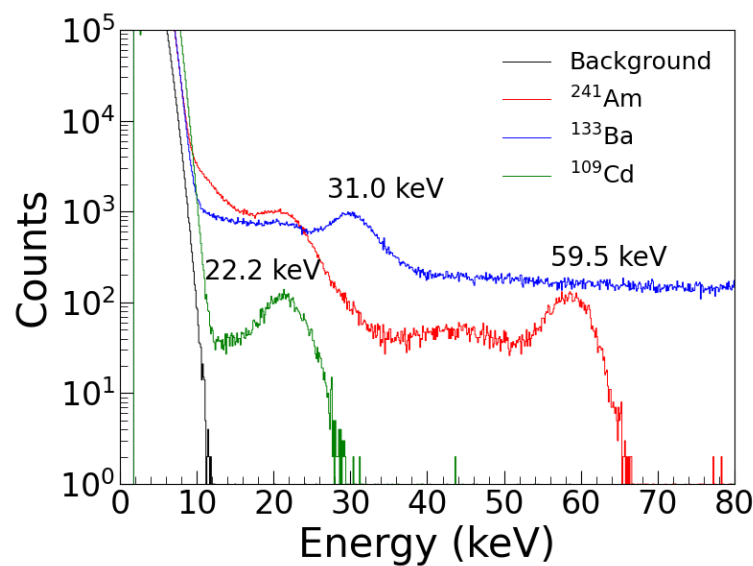


Figure 2. Characteristic X-ray spectra measured with the diamond sensor irradiated from radioisotope sources of ^{241}Am (red color), ^{133}Ba (blue color), and ^{109}Cd (green color), respectively. The typical background level, i.e., a noise-level spectrum of the system, is also shown (black color).

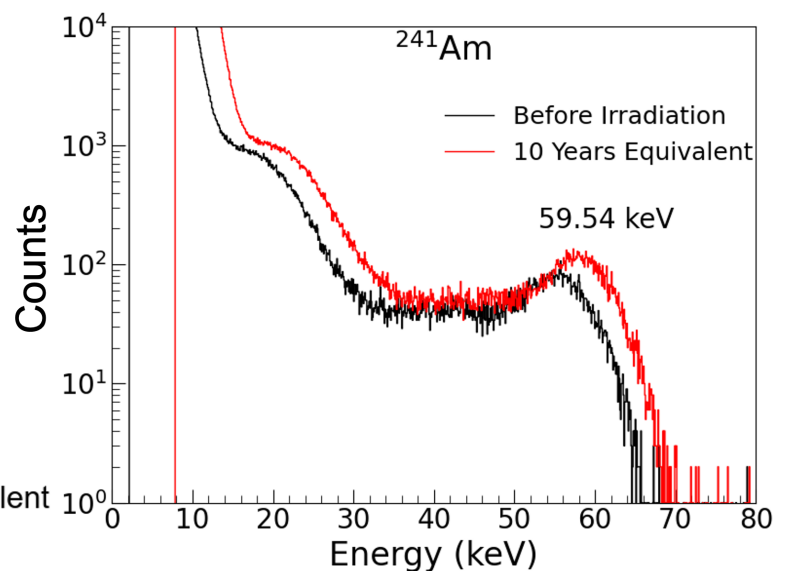
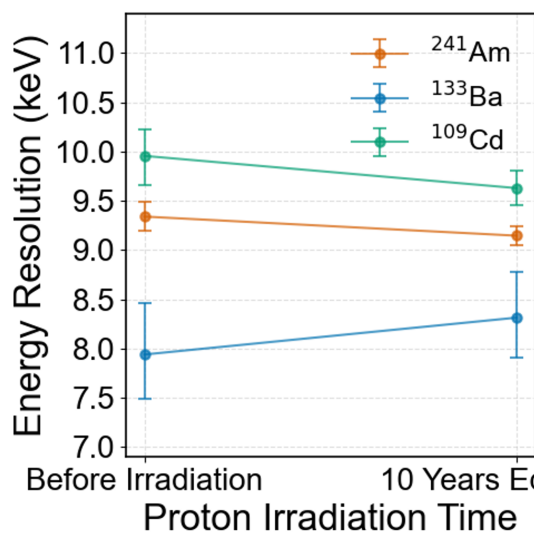


Figure 3. Left: Comparison of energy resolution between before and after proton irradiation equivalent to 10 years in orbit. Right: The characteristic X-ray spectra of ^{241}Am before and after proton irradiation tests, respectively.