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Proficiency testing in chemical laboratories of Polish assay offices at the Round Robin program

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[jewelry alloys proficiency testing X-ray fluorescence spectrometry technique](#)

Abstract

The main topic of this article is comparison and evaluation of test results obtained by chemical laboratories of national assay offices participating in in two editions (2020 and 2021) of Round Robin proficiency testing program on testing of precious metals concentrations in jewelry alloys. The conducted proficiency testing covered analyses of test samples using X-ray fluorescence spectrometry technique and chemical methods, used by national assay offices to determine fineness of jewelry alloys and make decisions on hallmarking of precious metal articles. The gold, silver and platinum alloys were tested by chemical laboratories of Regional Assay Offices in Krakow and Warsaw and their Local Branch.

Bibliography

- [1] PMC INF 01 2020 Report on the Compilation of Round Robins 47 & 48 for precious metal alloys (Test Programme 2020).
- [2] PMC INF 44 2021 Report on the Compilation of Round Robins 49 & 50 & 51 for precious metal alloys (Test Programme 2021).

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