

1. Record Nr.	UNINA9910452114403321
Autore	Hibbert D. B (D. Brynn), <1951->
Titolo	Quality assurance for the analytical chemistry laboratory [[electronic resource] /] / D. Brynn Hibbert
Pubbl/distr/stampa	Oxford ; New York, : Oxford University Press, 2007
ISBN	0-19-756209-4 0-19-028994-5 1-281-15633-7 0-19-803672-8 9786611156336 1-4356-1419-4
Descrizione fisica	1 online resource (321 p.)
Collana	Oxford scholarship online
Disciplina	542
Soggetti	Chemical laboratories - Quality control Chemistry, Analytic - Quality control Chemistry, Analytic - Technique Chemometrics Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Previously issued in print: 2007.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; 1 Introduction to Quality in the Analytical Chemistry Laboratory; 2 Statistics for the Quality Control Laboratory; 3 Modeling and Optimizing Analytical Methods; 4 Quality Control Tools; 5 Interlaboratory Studies; 6 Measurement Uncertainty; 7 Metrological Traceability; 8 Method Validation; 9 Accreditation; 10 Conclusions: Bringing It All Together; Glossary of Acronyms, Terms, and Abbreviations; Index
Sommario/riassunto	The customer of the analytical services relies on the quality assurance and quality control procedures adopted by the laboratory. It is the totality of the QA effort that gives the customer confidence in the result. QA in the Analytical Chemistry Laboratory takes the reader through all aspects of QA, from the statistical basics and quality control tools to becoming accredited to international standards. Concepts such

as measurement uncertainty and metrological traceability are explained for a working chemist or her client. How to design experiments to optimise an analytical process is included, together with the necessary statistics to analyse the results. All numerical manipulation and examples are given as Microsoft Excel spreadsheets. Different kinds of interlaboratory studies are explained, and how a laboratory is judged in proficiency testing schemes is described.
