Record Nr. UNINA9910877622703321 Quality assurance in environmental monitoring: instrumental methods **Titolo** // edited by G. Subramanian Pubbl/distr/stampa Weinheim;; New York,: VCH, 1995 **ISBN** 1-281-75855-8 9786611758554 3-527-61513-X 3-527-61512-1 Descrizione fisica 1 online resource (352 p.) Altri autori (Persone) SubramanianG. <1935-> Disciplina 363.7363 628.50287 Soggetti Pollution - Measurement - Quality control Pollution - Measurement - Equipment and supplies Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Quality Assurance in Environmental Monitoring; Contents; 1 The Use of Solid Phase Extraction for Environmental Samples; 1.1 The Importance of Sample Preparation; 1.2 Introduction to Solid Phase Extraction; 1.3 SPE Formats; 1.3.1 Syringe Barrel or Cartridges; 1.3.2 Syringe Filter or Sep-paks; 1.3.3 Disks; 1.3.4 Choice of Format; 1.4 Using SPE Cartridges and Disks; 1.5 SPE Sorbents; 1.5.1 Normal Phase Sorbents; 1.5.2 Reverse Phase Sorbents; 1.5.3 Ion Exchange Sorbents; 1.6 Sorbent and Solvent Relationships; 1.6.1 Normal Phase; 1.6.2 Reverse Phase; 1.6.3 Ion Exchange; 1.7 Selecting the Solvents 1.7.1 Conditioning Solvents1.7.2 Loading Solvents; 1.7.3 Rinsing Solvents; 1.7.4 Elution Solvents; 1.8 Solvent Considerations; 1.8.1 Solvent Volume; 1.8.2 Solvent Miscibility; 1.8.3 Solvent Volatility; 1.8.4 Solvent Flow Rate; 1.9 Selecting Cartridge Size; 1.10 Method Development; 1.11 Matrix Considerations; 1.12 Analysis Considerations; 1.13 Method Considerations; 1.14 Example Methods; 2 Current Status of Supercritical Fluid Extraction in Environmental

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Sommario/riassunto

Environmental technology plays an increasingly important role in today's world. This has led to many new developments in legislation and monitoring of environmental pollutants. A comprehensive treatment of these current trends is presented in this book. The reader is helped by a sound understanding of modern instrumental methods such as GC/MS, thermal desorption and purge-trap methods, that are available to meet these legal requirements. Many practical applications assist familiarization with these techniques. This work pays particular attention to methods of monitoring different types