1. Record Nr. UNINA9910144406903321 Autore Hubschmann Hans-Joachim Titolo Handbook of GC/MS: fundamentals and applications / / Hans-Joachim Hubschmann Pubbl/distr/stampa Weinheim, [Germany]: ,: Wiley-VCH Verlag GmbH & Co. KGaA, , 2009 ©2009 **ISBN** 1-282-02171-0 9786612021718 3-527-62521-6 3-527-62522-4 Edizione [2nd ed.] Descrizione fisica 1 online resource (739 p.) Disciplina 543.85 543/.85 Soggetti Gas chromatography Mass spectrometry Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references at the end of each chapters and index. Handbook of GC/MS; Foreword; Preface to the Second Edition; Preface Nota di contenuto to the First Edition; Contents; 1 Introduction; 2 Fundamentals; 2.1 Sample Preparation; 2.1.1 Solid Phase Extraction; 2.1.1.1 Solid Phase Microextraction; 2.1.2 Supercritical Fluid Extraction; 2.1.3 Pressurized Fluid Extraction; 2.1.4 Online Liquid Chromatography Clean-up; 2.1.5 Headspace Techniques; 2.1.5.1 Static Headspace Technique; 2.1.5.2 Dynamic Headspace Technique (Purge and Trap); 2.1.5.3 Headspace versus Purge and Trap; 2.1.6 Adsorptive Enrichment and Thermodesorption; 2.1.6.1 Sample Collection; 2.1.6.2 Calibration 2.2.3.4 Cold Injection Systems2.2.3.5 Injection Volumes; 2.2.3.6 Oncolumn Injection; 2.2.3.7 Cryofocusing; 2.2.4 Capillary Columns; 2.2.4.1 Sample Capacity; 2.2.4.2 Internal Diameter; 2.2.4.3 Film Thickness; 2.2.4.4 Column Length; 2.2.4.5 Adjusting the Carrier Gas Flow; 2.2.4.6 Properties of Stationary Phases; 2.2.5 Chromatography Parameters; 2.2.5.1 The Chromatogram and its Meaning; 2.2.5.2

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Sommario/riassunto

This is the first comprehensive reference work for GC/MS now in its second edition. It offers broad coverage, from sample preparation to the evaluation of MS-Data, including library searches. Fundamentals, techniques, and applications are described. A large part of the book is devoted to numerous examples for GC/MS-applications in environmental, food, pharmaceutical and clinical analysis. These proven examples come from the daily practice of various laboratories. The book also features a glossary of terms and a substance index that helps the reader to find information for his particul