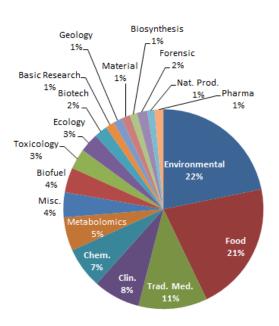
Tel.: +420 244 001 231 Fax: +420 244 011 235 E-mail: info@hpst.cz Web: www.hpst.cz IC: 25791079 DIČ: CZ25791079 Citibank a.s., Praha 6 č.ú.: 2504270118/2600

# Přehled aplikací GC-MS

Typ MS	Časové období	Celkem	Aplikace	Publikace	Ostatní
Celkem		671	118	513	40
QTOF	2011-2013	33	5	13	15
TQ	2008-2013	172	37	128	7
MSD	Aplikace: 2005-14 Publikace: 2013/14	466	76	372	18

<sup>\*</sup> Zdroj: Google Scholar, e-Library

# GC-MS (Q) 5975, 5977 Typy aplikací



# Potravinářské aplikace GC-MS (Q) 5975, 5977

# <u>Těkavé látky (VOC)</u>

- Chemical properties investigation of commercial cigarettes by a "pseudo" targeted method using GC-MS-selected ions monitoring
- Geographical origin identification of propolis using GC-MS and electronic nose combined with principal component analysis
- Influence of harvest maturity and fruit logistics on pineapple (Ananas comosus [L.] Merr.) volatiles assessed by headspace solid phase microextraction and gas chromatography–mass spectrometry (HS-SPME-GC/MS)
- Volatile Composition of Macedonian and Hungarian Wines Assessed by GC/MS
- Effect of salt reduction on aroma active compounds from dry fermented sausages

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- Research on Predominant Volatile Compounds of Grass Carp Meat
- Potential for Increasing Southern Highbush Blueberry Flavor Acceptance by Breeding for Major Volatile Components
- Contributions of non-volatile and volatile compounds to the umami taste and overall flavour of shiitake mushroom extracts and their application as flavour enhancers in cooked minced meat
- Changes in nutritional constituents, anthocyanins, and volatile compounds during the processing of black rice tea
- Characterization of Volatile Components in Makgeolli, a Traditional Korean Rice
  Wine, with or without Pasteurization, During Storage
- Seasonal variation in chemical composition, aroma volatiles and antioxidant capacity of pomegranate during fruit development
- Flavour profiles of three novel acidic varieties of muskmelon (Cucumis melo L.)
- Volatile compounds in mediar fruit (Mespilus germanica L.) at two ripening stages
- Effect of modified atmosphere packaging and storage temperature on volatile composition and postharvest life of minimally-processed pomegranate arils (cvs. 'Acco' and 'Herskawitz')
- A comparative study on oxidative and hydrolytic stability of monovarietal extra virgin olive oil in bakery products
- Use of hydrodistillation and headspace solid-phase microextraction to characterize the volatile composition of different hop cultivars
- Lipid oxidation in baked products: Impact of formula and process on the generation of volatile compounds
- Quantitative fingerprinting by headspace—Two-dimensional comprehensive gas chromatography–mass spectrometry of solid matrices: Some challenging aspects of the exhaustive assessment of food volatiles
- Sensory and instrumental analysis of medium and long shelf-life Charentais cantaloupe melons (Cucumis melo L.) harvested at different maturities
- Study of the suitability of two hop cultivars for making herb liqueurs: volatile composition, sensory analysis, and consumer study
- Volatile Profiling of U.S. Cabernet Sauvignon Wines Using HS-SPME and the Agilent 5975 Series GC/MSD System: Relating the Chemical Profile to Sensory Properties
- Chemometric Profiling of Whiskey Using the 5977A GC/MSD
- Development and Analysis of Aroma Compounds of Low Alcohol Blue Berry Wine
- Variations in Physicochemical Properties of Chinese Fenjiu During Storage and High-Gravity Technology of Liquor Aging

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- Development of a simultaneous multiple solid-phase microextraction-single shot-gas chromatography/mass spectrometry method and application to aroma profile analysis of commercial coffee
- Influence of heating and acidification on the flavor of whey protein isolate

## Mastné kyseliny, lipidy ad.

- Ipomoea batatas (L.) Lam.: A Rich Source of Lipophilic Phytochemicals
- Effect of different drying techniques on the aroma profile of Thymus vulgaris analyzed by GC-MS and sensory profile methods
- Discrimination of commercial cheeses from fatty acid profiles and phytosterol contents obtained by GC and PCA
- Erucic acid evaluation in rapeseed and canola oil by Fourier transform-infrared spectroscopy
- The Hurdle Effect of Bunium persicum Essential Oil, Smoke and NaCl for Controlling the Listeria monocytogenes Growth in Fish Model Systems
- Evaluation of the Physicochemical Properties and Antimicrobial Activities of Bioactive Biodegradable Films
- Chemical Composition and Antibacterial Activity of Essential Oils of Iranian Herbs Against Staphylococcus aureus Isolated from Milk
- Effect of calcium on the kinetics of free fatty acid release during in vitro lipid digestion in model emulsions
- Lipid oxidation in baked products: Impact of formula and process on the generation of volatile compounds
- Consequence of fatty acids profile including trans fat in chocolate and pastry samples
- Qualitative analysis of hexane flour extract of spelt
- Development of a fatty acid fingerprint of white apricot almond oil by gas chromatography and gas chromatography–mass spectrometry
- Aromatic and sensorial profiles of young Cabernet Sauvignon wines fermented by different Chinese autochthonous Saccharomyces cerevisiae strains
- Independent Column Temperature Control Using an LTM Oven Module for Improved Multidimensional Separation of Chiral Compounds

## **Mykotoxiny**

- Natural co-occurrence of aflatoxins and deoxynivalenol in poultry feed in Pakistan
- GC/MS of Native Patulin in Apple Juice and Cider

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## <u>Alergeny</u>

- GC/MS Identification of Flavor and Fragrance Allergens in Some Common Snack Foods Using an Agilent J&W DB-17ms Capillary GC Column
- Analysis of Suspected Flavor and Fragrance Allergens in Perfumes Using Two-Dimensional GC with Independent Column Temperature Control Using an LTM Oven Module
- Determination of Allergens in Fragrance Products Using Agilent Deconvolution Reporting Software

# **Antokyany**

- Changes in nutritional constituents, anthocyanins, and volatile compounds during the processing of black rice tea
- The effects of bagging and debagging on external fruit quality, metabolites, and the expression of anthocyanin biosynthetic genes in 'Jonagold' apple (Malus domestica Borkh.)

#### Melamin

- Rapid Screening of Melamine and Cyanuric Acid in Milk Products Using Agilent J&WHP-5ms GC Column and Agilent 7890A/5975C GC/MSD with Column Backflushing
- Trace-Level Analysis of Melamine in Milk Products on Agilent 7890A/5975C
  GC/MSD Using a New Agilent J&W DB-5ms Ultra Inert Column and SampliQ SCX Cartridges

## **Pesticidy**

- Automated QuEChERS Tips for Analysis of Pesticide Residues in Fruits and Vegetables by GC-MS
- Determination of dichlobenil and its major metabolite (BAM) in onions by PTV– GC–MS using PARAFAC2 and experimental design methodology
- Multi pesticide and PCB residues in Nile tilapia and catfish in Assiut city, Egypt
- Organochlorine pesticide residues in skin, flesh and whole carrots (Daucus carota) from markets around Lake Victoria basin, Uganda
- Dissipation and Residue of Bifenthrin in Wheat under Field Conditions
- Analysis and risk assessment of ethyl carbamate in various fermented foods
- Comprehensive Pesticide Analysis in Juice Using a Combination of GC/MS and LC/MS Methods
- Screening Foodstuffs for Pesticides and Other Organic Chemical Contaminants
  Using Full Scan GC/MS and Mass Hunter Quant Target Deconvolution

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- Replacing Multiple 50-Minute GC and GC-MS/SIM Analyses with One 15-Minute Full-Scan GC-MS Analysis for Nontargeted Pesticides Screening and >10x Productivity Gain
- Analysis of Pesticide Residues in Apple by GC/MS using Agilent Bond Elut QuEChERS Kits for Preinjection Cleanup
- Analysis of Pesticide Residues in Spinach Using Agilent Bond Elut QuEChERS AOAC Kits by GC/MS
- Analysis of Pesticide Residues in Apple Using Agilent Bond Elut QuEChERS EN Kits by GC/MS
- Analysis of Pesticide Residues in Apple Using Agilent Bond Elut QuEChERS AOAC Kits by GC/MS
- A Method for the Trace Analysis of 175 Pesticides Using the Agilent Triple Quadrupole GC/MS/MS
- Using RTL and 3-Way Splitter to Identify Unknown in Strawberry Extract
- Identifying Pesticides with Full Scan, SIM, uECD, and FPD from a Single Injection
- Ultra Inert (UI) Wool Liner Performance Using an Agilent J&W DB-35ms UI Column
- Optimizing Recoveries of Planar Pesticides in Spinach Using Toluene and Agilent Bond Elut AOAC QuECHERS Kits with Graphitized Carbon
- Pesticides Analysis Using the Agilent 5977A Series GC/MSD
- Screening Foodstuffs for Pesticides and Other Organic Chemical Contaminants
  Using Full Scan GC/MS and MassHunter Quant Target Deconvolution
- Dissipation Rates and Final Residues of Kresoxim-Methyl in Strawberry and Soil

## <u>PAU</u>

- Analysis of Polynuclear Aromatic Hydrocarbons in Grilled Hamburger
- PAHs in Chocolate and Peanuts with Agilent J&W Select PAH and Longer GC Columns

# Ftaláty, změkčovadla

- Phtalates analysis in fruit juice using an Agilent 5977E GC-MSD
- Determination of phthalate esters in liquor samples by vortex-assisted surfactant-enhanced-emulsification liquid-liquid microextraction followed by GC-MS
- Evaluation of the Equality of Non-Polar Capillary Columns in GC/MS Analysis of Food Contact Plastics.

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Rapid, Sensitive, and Robust Detection of Phthalates in Food Using GC/MS or LC/MS

#### Ostatní

- Comparing sugar components of cereal and pseudocereal flour by GC-MS analysis
- New Analytical Tools for the Determination of Persistent Organic Pollutants (POPs) in Fatty Food and Beverage Matrices Using QuEChERS Extraction/Cleanup and Gas Chromatography (GC) Analysis
- Determination of Terpenoids in Plant Leaves by GC-MS: Development of the Method and Application to Ocimum basilicum and Nicotiana langsdorffii
- Improvement of a gas chromatographic method for the analysis of iminosugars and other bioactive carbohydrates
- Metabolic Control of Higher Alcohols Producing by Saccharomyces cerevisia in Mulberry Wine Brewing
- Changes in the mesocarp of Annona cherimola Mill. 'Madeira' during postharvest ripening
- Multi-analyte approach for determining the extraction of tobacco constituents from pouched snus by consumers during use
- A comparative study of three modifications of the QuEChERS method for determination of endocrine disrupting pesticide residues in lemon matrices by fast GC-MS
- Detection of a metabolite produced by acidophilic spoilage-causing bacteria using different analytical and sensory methods
- Flavour Science, 1st Edition
- Characterizing the Chemical and Sensory Profiles of United States Cabernet Sauvignon Wines and Blends
- Determination of clenbuterol in meat samples with ELISA and GC-MS method
- Structural Basis for the Enzymatic Formation of the Key Strawberry Flavor Compound 4-Hydroxy-2,5-dimethyl-3(2H)-furanone
- Maximising umami taste in meat using natural ingredients: effects on chemistry, sensory perception and hedonic liking in young and old consumers
- Bioproduction of Natural Isoamyl Esters from Coconut Cream as Catalysed by Lipases
- Analysis of amino acids in tobacco by derivatization and dispersive liquid liquid microextraction based on solidification of floating organic droplet method
- Updated evaluation of the migration of styrene monomer and oligomers from polystyrene food-contact materials to foods and food simulants

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- Aromatic and sensorial profiles of young Cabernet Sauvignon wines fermented by different Chinese autochthonous Saccharomyces cerevisiae strains
- Characterisation of secondary metabolites in saffron from central Italy (Cascia, Umbria)
- Detecting Contamination in Shochu Using the Agilent GC/MSD, Mass Profiler Professional, and Sample Class Prediction Models
- Screen Beer by GC/MS Static Headspace with the Agilent J&W DB-624UI Capillary Column
- GC/MS of Acrylamide in Air-popped Potato Snacks with Bond Elut C18 Sample Prep
- Screening for Pesticides in Food Using the Japanese Positive List Pesticide Method: Benefits of Using GC/MS with Deconvolution Reporting Software and a Retention Time Locked Mass Spectral Database
- Determination of 3-MCPD Diesters and Monoesters in Vegetable Oils and Fatsoesters in Vegetable Oils and Fats