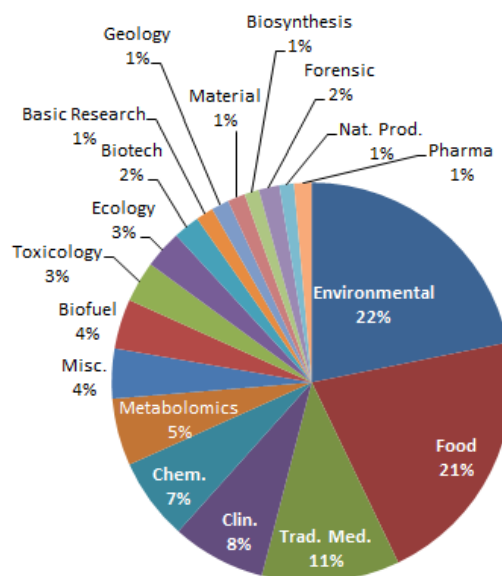


Přehled aplikací GC-MS

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

* Zdroj: Google Scholar, e-Library

GC-MS (Q) 5975, 5977 Typy aplikací



Environmentální aplikace GC-MS (Q) 5975, 5977

Těkavé látky (VOC)

- Target Based Screening of Environmental Water Samples using Deconvolution Reporting Software on an Agilent 5975 Series GC-MSD and the Creation of a New Screening Database
- A turn key analyser solution for the target based screening of environmental water samples on the Agilent 5977 GCMS
- Environmentální volatily using an Agilent 7697A headspace samples, an Agilent 7890B GC and an Agilent 5977A GCMSD
- Colour and odour drive fruit selection and seed dispersal by mouse lemurs
- Identification of Oviposition Attractants of the Secondary Screwworm, *Cochliomyia macellaria* (F.) Released from Rotten Chicken Liver

- **Volatile Organic Compounds Emission from Betula verrucosa under Drought Stress**
- **Cashew Volatiles Mediate Short-Range Location Responses in Pseudotheraptus wayi (Heteroptera: Coreidae)**
- **Study on the Pollution Characteristic of VOCs in Ambient Air of Chengdu**
- **Comparison of Volatile Blends and Nucleotide Sequences of Two Beauveria Bassiana Isolates of Different Virulence and Repellency Towards the Termite Macrotermes Michealseni**
- **Analysis of EPA Method 8270D Semivolatiles Using the Agilent J&W DB-UI 8270D Ultra Inert GC Column**
- **Fast USEPA 8270 Semivolatiles Analysis Using the 6890N/5975 inert GC/MSD**
- **Femtogram GC/MSD Detection Limits for Environmental Semivolatiles Using a Triple-Axis Detector**
- **Parts-per-Trillion Level Calibration of Semivolatiles Using LVI-PTV-GC/MSD**
- **Significant Cycle Time Reduction Using the Agilent 7890A/5975 GC/MSD for EPA Method 8270**
- **Analysis of Volatile Organic Compounds in Water Using Static Headspace-GC/MS**
- **Analysis of Semivolatiles Using High Efficiency Capillary GC Columns**
- **Laboratory-Based Air Monitoring Solutions from Agilent Technologies**
- **Developing an eMethod for the Analysis of Volatile Organic Compounds in Water Using Purge and Trap/GC with Agilent's New 5975 inert Mass Spec**
- **Agilent Inert Flow Path Enhancements: Impact on Semivolatile Analysis**
- **Screening for 171 Volatile Organic Air Pollutants Using GC/MS with Deconvolution Reporting Software and a New Indoor Air Toxics Library**
- **Environmental Semivolatiles Using an Agilent Multimode Inlet for Maximum Sensitivity**
- **Semi-Volatile Organic Compounds Analysis using an Agilent J&W DB-5 ms Ultra Inert Column**
- **EPA Method 8270 for SVOC Analysis on the 5977A Series GC/MSD**
- **Determination of Semivolatile Organic Compounds in Drinking Water Using the Compounds in Drinking Water Using the Agilent 5977A Series GC/MSD**
- **Environmental Volatiles Using an Agilent 7697A Headspace Sampler, an Agilent 7890B GC, and an Agilent 5977A Series**
- **An Economical EN71 Solution for VOCs Analysis from Toys Emission Using an Agilent 7667A Mini TD and an Agilent 5977E MSD System**

Oleje, tuky, uhlovodíky ad.

- The influence of soil composition on the leachability of selected hydrophobic organic compounds (HOCs) from soils using a batch leaching test
- Effect of modified montmorillonites on the biodegradation and adsorption of biomarkers such as hopanes, steranes and diasteranes
- Effects of oil on the rate and trajectory of Louisiana marsh shoreline erosion
- Identification of Undecane as an Alarm Pheromone of the Ant *Formica argentea*
- Chemometric assessment of enhanced bioremediation of oil contaminated soils
- Epicuticular Compounds of *Drosophila subquinaria* and *D. recens*: Identification, Quantification, and Their Role in Female Mate Choice
- Characterization of Leaf Essential Oil Composition of Homozygous and Heterozygous *Citrus clementina* Hort. Extan. and its Ancestors
- Skin lipid structure controls water permeability in snake molts
- Insecticidal and biting deterrent activity of rose-scented geranium (*Pelargonium* spp.) essential oils and individual compounds against *Stephanitis pyrioides* and *Aedes aegypti*
- Concurrent purification of sterols, triterpenols and alkenones from sediments for hydrogen isotope analysis using high performance liquid chromatography
- Biting Deterrence, Repellency, and Larvicidal Activity of *Ruta chalepensis* (Sapindales: Rutaceae) Essential Oil and Its Major Individual Constituents Against Mosquitoes
- Comparative Investigation of *Umbellularia californica* and *Laurus nobilis* Leaf Essential Oils and Identification of Constituents Active against *Aedes aegypti*
- Long chain alkenes, alkenones and alkenoates produced by the haptophyte alga *Chrysothila lamellosa* CCMP1307 isolated from a salt marsh
- Positive correlation between salinity and n-alkane $\delta^{13}C$ values in the mangrove *Avicennia marina*
- Sexual selection on cuticular hydrocarbons of male sagebrush crickets in the wild

Pesticidy

- Analyze Pesticides in Water with Stir Bar Sorptive Extraction and Thermal Separation
- Homogeneous Liquid–Liquid Microextraction Via Flotation Assistance (HLLME-FA) Method for the Pretreatment of Organochlorine Pesticides in Aqueous and Determination by GC–MSSamples
- Effects of zeolites X and Y on the degradation of malathion in water

- **Evaluation of calibration approaches for quantification of pesticide residues in surface water by SPE with small-size cartridges followed by fast GC-MS**
- **Degradation of methiocarb by monochloramine in water treatment: Kinetics and pathways**
- **Isolation and Characterization of Cypermethrin Degrading Bacteria Screened from Contaminated Soil**
- **GC-MS Determination of Targeted Pesticides in Environmental Samples from the Kafue Flats of Zambia**
- **Gas Chromatography-Mass Spectrometry Determination of Organophosphate Pesticide Residues in water of the irrigation canals in the North Zone, Tamil Nadu, India**
- **The Migration and Transformation of Pyrethroids in Coastal Sedimentary Environment**
- **Distributions, possible sources and biological risk of DDTs, HCHs and chlordanes in sediments of Beibu Gulf and its tributary rivers, China**
- **Occurrence and Assessment of Chemical Contaminants in Drinking Water in Tunceli, Turkey**
- **Quantitative analysis of organochlorine pesticides in human serum using headspace solid-phase microextraction coupled with gas chromatography–mass spectrometry**
- **Characterization of a novel cyfluthrin-degrading bacterial strain *Brevibacterium aureum* and its biochemical degradation pathway**
- **The Potential for Using Ozone to Decrease Pesticide Residues in Honey Bee Comb**
- **Study of the Reaction Derivatization Glyphosate and Aminomethylphosphonic Acid (AMPA) with N,O-Bis(trimethylsilyl)trifluoroacetamide**
- **Effect of buffer strips and soil texture on runoff losses of flufenacet and isoxaflutole from maize fields**
- **Homogeneous Liquid–Liquid Microextraction Via Flotation Assistance (HLLME-FA) Method for the Pretreatment of Organochlorine Pesticides in Aqueous and Determination by GC–MSSamples**
- **Effect of buffer strips and soil texture on runoff losses of flufenacet and isoxaflutole from maize fields**

PBDE, retardéry hoření

- **Bioaccumulation and debromination of BDE-209 in Japanese medaka (*Oryzias Latipes*) when continuously exposed to environmental relevant concentrations**

- **Primary investigation on contamination pattern of legacy and emerging halogenated organic pollutions in freshwater fish from Liaohe River, Northeast China**
- **Characterization of polybrominated diphenyl ethers (PBDEs) and hydroxylated and methoxylated PBDEs in soils and plants from an e-waste area, China**
- **Focused ultrasound assisted extraction for the determination of PBDEs in vegetables and amended soil**
- **Emerging and historical halogenated flame retardants in fish samples from Iberian rivers**
- **Concentrations and trends of halogenated flame retardants in the pooled serum of residents of Laizhou Bay, China**
- **Adsorption and sequential degradation of polybrominated diphenyl ethers with zerovalent iron**
- **Matrix solid-phase dispersion combined with gas chromatography–mass spectrometry for the determination of fifteen halogenated flame retardants in mollusks**
- **Microcosm study on fate of polybrominated diphenyl ethers (PBDEs) in contaminated mangrove sediment**
- **Applying the 5975 inert MSD to the Higher Molecular Weight Polybrominated Diphenyl Ethers (PBDEs)**
- **Determination of Polybrominated Diphenylethers (PBDE) in Sediment and Sewage Sludge**

PAU, nitro-PAU

- **The Removal of Crude Oil in Waste Drilling Muds by a Constructed Microbial Consortium**
- **Effects of waste cooking oil-based biodiesel on the toxic organic pollutant emissions from a diesel engine**
- **Spatial and temporal variations of nitro-polycyclic aromatic hydrocarbons in PM2.5 aerosols in Yangtze River Delta Region, China**
- **Preparation, characterization, and applications of a novel solid-phase microextraction fiber by sol-gel technology on the surface of stainless steel wire for determination of poly cyclic aromatic hydrocarbons in aquatic environmental samples**
- **Determination of levels of polycyclic aromatic hydrocarbons in soil contaminated with spent motor Engine oil in Abakaliki Auto-Mechanic Village**
- **Identification and ranking of the risky organic contaminants in the source water of the Danjiangkou reservoir**

- **Successive transformation of benzo[a]pyrene by laccase of *Trametes versicolor* and pyrene-degrading *Mycobacterium* strains**
- **Reductive degradation of oxygenated polycyclic aromatic hydrocarbons using an activated magnesium/co-solvent system**
- **Naphthalene and crude oil degradation by biosurfactant producing *Streptomyces* spp. isolated from Mitidja plain soil (North of Algeria)**
- **Harnessing oil sands microbial communities for use in ex situ naphthenic acid bioremediation**
- **Synchronous SIM/Scan Low-Level PAH Analysis Using the Agilent Technologies 6890/5975 inert GC/MSD**
- **Fast Analysis of Polynuclear Aromatic Hydrocarbons Using Agilent Low Thermal Mass (LTM) GC/MS and Capillary Flow Technology QuickSwap for Backflush**
- **Sensitive and Reproducible Detection of PAHs Using the Agilent 5977A Series GC/MSD**
- **Biodegradation and adsorption of C1- and C2-phenanthrenes and C1- and C2-dibenzothiophenes in the presence of clay minerals: effect on forensic diagnostic ratios**
- **Viability of phenanthrene biodegradation by an isolated bacterial consortium: optimization and scale-up**

PCB

- **Determination of Trace PCBs in Water by GC-MS with Ionic Liquid Based Headspace Single-Drop Microextraction under Ultrasound**
- **Primary investigation on contamination pattern of legacy and emerging halogenated organic pollutions in freshwater fish from Liaohu River, Northeast China**
- **Effects of waste cooking oil-based biodiesel on the toxic organic pollutant emissions from a diesel engine**
- **Using the kingfisher (*Alcedo atthis*) as a bioindicator of PCBs and PBDEs in the Dinghushan biosphere reserve, China**
- **GC/MS Analysis of PCBs in Waste Oil Using the Backflush Capability of the Agilent QuickSwap Accessory**

Phthaláty

- **A new procedure combining GC-MS with accelerated solvent extraction for the analysis of phthalic acid esters in contaminated soils**
- **Effect of spiked phthalic acid esters on dissipation efficiency of *Potamogeton crispus* L. in the rhizosphere of surface sediments from the Haihe River, China**

- **Distribution of phthalate esters in topsoil: a case study in the Yellow River Delta, China**
- **Thermal desorption-gas chromatography–mass spectrometry method to determine phthalate and organophosphate esters from air samples**
- **Determination of sub-ppb Level of Phthalates in Water by Auto-SPME and GC-MS**
- **Determination of Phthalate Concentration in Toys and Children’s Products**
- **Sensitive and Reproducible Phthalate GC/MSD**
- **Phthalates Analysis in Toys Using Agilent 5977E GC/MS**

Ostatní

- **Frontalin pheromone biosynthesis in the mountain pine beetle, *Dendroctonus ponderosae*, and the role of isoprenyl diphosphate synthases**
- **Multiple lines of evidence to demonstrate vinyl chloride aerobic biodegradation in the vadose zone, and factors controlling rates**
- **Blood plasma concentrations of endocrine disrupting chemicals in Hong Kong populations**
- **Urinary concentrations of trichlorophenols in the Korean adult population: results of the National Human Biomonitoring Survey 2009**
- **Occurrence and Partitioning of Phenolic Endocrine-Disrupting Chemicals (EDCs) Between Surface Water and Suspended Particulate Matter in the North Tai Lake Basin, Eastern China**
- **Biomonitoring of Exposure to N-Methyl-2-Pyrrolidone in Workers of the Automobile Industry**
- **Sensitive determination of hydrazine in water by gas chromatography–mass spectrometry after derivatization with ortho-phthalaldehyde**
- **Decomposition of dimethylamine gas with dielectric barrier discharge**
- **Head-butting as an Early Indicator of Reproductive Disinhibition in the Termite *Zootermopsis nevadensis***
- **Oriental Orchid (*Cymbidium floribundum*) Attracts the Japanese Honeybee (*Apis cerana japonica*) with a Mixture of 3-Hydroxyoctanoic Acid and 10-Hydroxy- (E)-2-Decenoic Acid**
- **Determination of Lewisites and their hydrolysis products in aqueous and multiphase samples by in-sorbent tube butyl thiolation followed by thermal desorption–gas chromatography–full scan mass spectrometry**
- **Dechlorane plus monoadducts in a lake ontario (Canada) food web and biotransformation by lake trout (*Salvelinus namaycush*) liver microsomes**

- **A portable gas chromatograph with simultaneous detection by mass spectrometry and electroantennography for the highly sensitive in situ measurement of volatiles**
- **Identification of causative compounds and microorganisms for musty odor occurrence in the Huangpu River, China**
- **Cadmium Induced Changes of Proline in Two Ecotypes of *Thlaspi Caerulescens***
- **Association between precocious puberty and some endocrine disruptors in human plasma**
- **Investigation of terpinolene + ozone or terpinolene + nitrate radical reaction products using denuder/filter apparatus**
- **Host plant-driven sensory specialization in *Drosophila erecta***
- **Development of stir-bar sorptive extraction–thermal desorption–gas chromatography–mass spectrometry for the analysis of musks in vegetables and amended soils**
- **Observation-based assessment of stratospheric fractional release, lifetimes, and ozone depletion potentials of ten important source gases**
- **Metabolism and elimination of N-ethyl-2-pyrrolidone (NEP) in human males after oral dosage**
- **Investigation of the sources and seasonal variations of secondary organic aerosols in PM_{2.5} in Shanghai with organic tracers**
- **Biomarkers of human exposure to personal care products: Results from the Flemish Environment and Health Study (FLEHS 2007–2011)**
- **Degradation of paracetamol by *Pseudomonas aeruginosa* strain HJ1012**
- **In situ derivatization coupled to microextraction by packed sorbent and gas chromatography for the automated determination of haloacetic acids in chlorinated water**
- **Linear and branched perfluorooctane sulfonate (PFOS) isomer patterns differ among several tissues and blood of polar bears**
- **The Effect of Supported Liquid Membrane and Liquid Membrane Phase on the Extraction Efficiency of Coal Gasification Wastewater**
- **Optimization of Static Head-Space Gas Chromatography - Mass Spectrometry-Conditions for the Determination of Benzene, Toluene, Ethyl benzene, Xylene, and Styrene in Model Solutions**
- **A moth pheromone brewery: production of (Z)-11-hexadecenol by heterologous co-expression of two biosynthetic genes from a noctuid moth in a yeast cell factory**
- **Field trapping of male *Phyllonorycter ringoniella* using variable ratios of pheromone components**

- **Identification of the Sex Pheromone Secreted by a Nettle Moth, *Monema flavescens*, Using Gas Chromatography/Fourier Transform Infrared Spectroscopy**
- **Establishment of quantitative PCR methods for the quantification of geosmin-producing potential and *Anabaena* sp. in freshwater systems**
- **Phenylmercury degradation by heterogeneous photocatalysis assisted by UV-A light**
- **Emerging Contaminants - Environmental Compendium**
- **Screening for Hazardous Chemicals in Homeland Security and Environmental Samples Using a GC/MS/ECD/FPD with a 731 Compound DRS Database**
- **Analysis of Nitrosamines in Drinking Water Using the Agilent 5977A Series GC/MSD System**