

GC-MS 6800

Gas Chromatograph Mass Spectrometer

- High performance, high reliability
- Low cost for customers of all types
- Holding multiple patents





GC-MS 1000

Gas Chromatograph Mass Spectrometer

Cost-effective GC-MS solution with top performance



GC-MS 6800 Gas Chromatograph Mass Spectrometer (GC-MS) system is widely used in industrial inspection, food processing, environmental protection and pharmaceutical industries. Cost effective and reliable design manufactured to the highest standards. ChemAnalyst I workstation software simplifies all operation procedures and controls the auto-sampler, gas chromatograph and mass spectrometer.

Features

- ❑ Electronic pressure/flow control system (EFC/EPC) with EI filament for high electron emission efficiency
- ❑ Quadrupole with pre-filter and high energy dynode electron multiplier
- ❑ Reliable Vacuum system with turbo molecular pump
- ❑ Real-time vacuum monitoring with vacuum gauge
- ❑ Digital RF Technology ensures better sensitivity and resolution in full mass range
- ❑ The "ChemAnalyst" software controls auto sampler, GC and MS
- ❑ Full scan (SCAN) and selective ion monitoring (SIM) modes
- ❑ Quick display of total ion current (TIC) and mass spectrogram
- ❑ Accurate qualitative and quantitative analysis with Skyray NIST spectrum database with free online upgrades

Applications

- ❑ Industrial: textile, electronics, plastics and cosmetics
- ❑ Food safety: pesticides, fragrances, additives and food packaging
- ❑ Environmental protection: air, water, soil and waste
- ❑ Pharmaceutical industry: pharmaceutical and drugs
- ❑ Petrochemical industry: refinery, chemical plants
- ❑ Public security: explosives, drugs and evidence





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Advanced Software

Fully automatic GC-MS Software controls auto sampler (AS), gas chromatograph (GC) and mass spectrometer (MS)

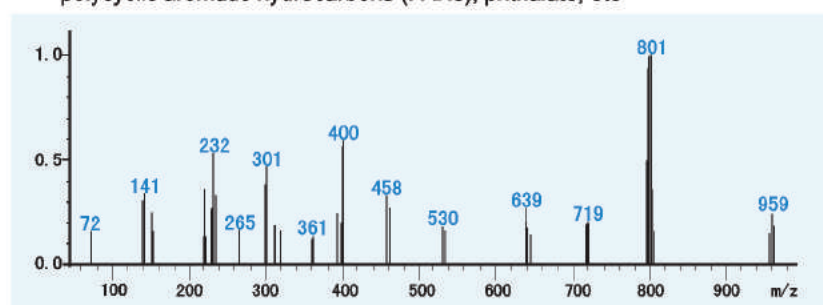
Full Scan and selective Ion Monitoring (SIM) modes

Manual and automatic tuning, display of total ion current (TIC) and mass chromatogram (MC)

Complete NIST Database including retention times, structural formula and standard mass spectra,

Accurate qualitative and quantitative analysis and fast data processing

Brominated flame-retardant (BFR), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), phthalate, etc



Mass spectrum of deca polybrominated biphenyl ether

Technical Specifications

GC Specifications		
Inlet temperature		Max. 450°C
Pressure range		0~100psi, ±0.002psi
Pressure control mode		Electronic pressure control (EPC), support CV and CC
Split mode		Split/splitless, max. split ratio: 1000:1
Column oven working temperature		Room temperature+4°C ~450°C
Heating rate		Up to 120°C/min
Temperature programming		7 stages/ 8 platforms
Auto Sampler		Optional
MS Specifications		
EI source ionization energy		5eV~250eV (Adjustable)
Mass range		1.5~1000amu
Resolution		Unit resolution (full width at half maximum)
Ion source temperature		100~350°C
Filament emission current		0~350 μA
GC-MS Interface temperature		Max. 450°C
Stability		±0.10 amu/48 hrs
Sensitivity		Full scan, 1pg OFN at m/z 272 with S/N >30:1 (RMS)
Scan rate		Up to 10000 amu/s
Vacuum		Turbo molecular pump(67L/s)
Detector		High energy dynode electron multiplier

Skyray Instruments



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• Spectroscopy • Chromatography • Mass Spectrometry

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Skyray has been providing customers around the world with reliable and affordable Scientific Instruments for more than 20 years