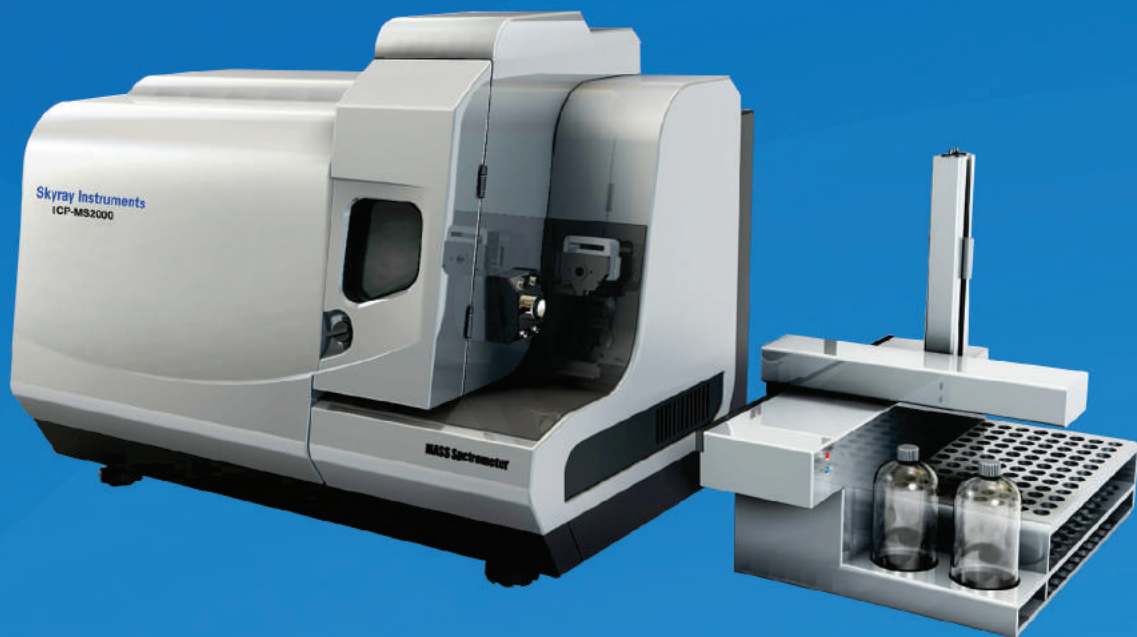


# ICP-MS 2000

Inductively Coupled Plasma Mass Spectrometer

- High Efficiency
- Meet Customer Demand
- Fast Analysis





# ICP-MS 2000

## Inductively Coupled Plasma Mass Spectrometer

### Wide dynamic range and lowest detection limits



ICP-MS 2000 Inductively Coupled Plasma Mass Spectrometer utilizes a new technique for micro-(10<sup>-</sup>), trace-(10<sup>9</sup>) and ultra-trace (10<sup>11</sup>) element analysis with a variety of advantages, such as ability to analyze most elements in the periodic table, low detection limit, wide linear (dynamic) range, low interference, high accuracy, high speed and isotopic analysis. With its high performance to price ratio Skyray fully automatic ICP-MS 2000 is widely used in environmental protection, food hygiene, semiconductor, pharmaceutical and nuclear industries.

### Features

- ❑ Quick analysis, simple operation, high sensitivity, low background noise
- ❑ One-button plasma setting for convenient plasma optimization
- ❑ Advanced plasma shielding technology improves sensitivity and reduces detection limit for low mass elements-reaching ppt level
- ❑ Replacement, installation and dismantling of sample cone and skimmer can be done under vacuum.
- ❑ Hexapole collision cell improves efficiency of ion transmission and eliminates the interference of polyatomic ion;
- ❑ Computer controlled switching of digital and analog modes with dynamic linearity range reaching 9 orders of magnitude
- ❑ Wireless vacuum chamber





# ICP-MS 2000

## Inductively Coupled Plasma Mass Spectrometer

### Cost-effective ICP-MS solution with top performance

#### Application fields:

##### Environmental

drinking water, seawater, food, hygiene and disease control, goods inspection

##### Semiconductor

Metals, reagents, Si chips, photoresists

##### Pharmaceutical

Medical research on hair, blood, serum, urine sample, biological tissues, Lead testing in blood

##### Nuclear

Nuclear fuel radioisotope, cooling water pollution

##### Others

Chemical, and petrochemical industries, geology

#### Configuration

- ❑ Mass Range: 2-255 amu
- ❑ Dynamic (Linear) Range:  $>10^8$
- ❑ Sensitivity(cps/mg/L): Be  $> 5 \times 10^9$  In  $> 60 \times 10^6$  U  $> 60 \times 10^6$
- ❑ Limit of Detection(ng/L): Be  $< 5$ ; In  $< 0.5$ ; U  $< 0.5$
- ❑ Resolution(amu): 0.6-0.8
- ❑ SNR(Signal to Noise Ratio)  $> 50 \times 10^9$
- ❑ Background:  $< 2$  cps (full mass range)
- ❑ Variance:  $< 0.05$  amu/24h
- ❑ Stability (RSD) short term  $< 2\%$  ; long term  $< 3\%$
- ❑ Sample Chamber: Modular sample introduction system with externally mounted atomizer and optional autosampler
- ❑
- ❑
- ❑





# Skyray Instruments



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• Spectroscopy • Chromatography • Mass Spectrometry

Skyray Instruments specializes in the R&D, manufacturing and sales of analytical and measuring instruments in Spectroscopy, Chromatography and Mass Spectroscopy fields. Our Products include X-ray Fluorescence Spectrometry, Atomic Absorption Spectrometry, Gas Chromatography, Inductively Coupled Plasma Spectrometry, Mass Spectrometry and many others

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