

Mass Spectrometry Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global mass spectrometry market size reached US\$ 5.7 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 8.7 Billion by 2027, exhibiting a growth rate (CAGR) of 7.46% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

Mass spectrometry (MS) refers to an analytical technique used to quantify materials and identify compounds in a particular sample. It involves the use of an ion source to produce gaseous ions from the substance under study, an analyzer to separate the ions based on their mass-to-charge ratio and a detector system to identify and record the relative abundance of ion species. Some of the commonly used mass spectrometry technologies include quadrupole, time-of-flight (TOF), ion trap, triple quadrupole, quadrupole TOF and Fourier Transform Mass Spectrometry (FTMS). These platforms assist in identifying molecules in a mixture, detecting impurities in a sample and analyzing a purified protein. As a result, mass spectrometry finds extensive applications across various industries, including pharmaceuticals, biotechnological, environmental, petrochemical and food and beverages.

Significant growth in the pharmaceutical industry across the globe is one of the key factors creating a positive outlook for the market. Mass spectrometry is widely used to analyze molecules in pharmaceutical drugs, biosimilars, phytoproducts and regenerative medicines. Moreover, increasing emphasis on environmental testing for pollution control is also augmenting the market growth. In line with this, the rising adoption of mass spectrometry for detecting toxins, pathogens, microorganisms and

chemicals to maintain food quality and safety is also contributing to the market growth. Additionally, various technological advancements, such as the development of innovative hybrid spectrometers, are acting as other major growth-inducing factors. These spectrometers offer rapid and high-resolution testing with enhanced accuracy and precision. Other factors, including extensive research and development (R&D) activities, along with the utilization of mass spectrometry in crude and shale gas production, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global mass spectrometry market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on technology and application.

Breakup by Technology:

- Triple Quadrupole (Tandem)
- Quadrupole TOF (Q-TOF)
- FTMS (Fourier Transform Mass Spectrometry)
- Quadrupole
- Time-of-Flight (TOF)
- ION Trap
- Others

Breakup by Application:

- Pharmaceuticals
- Biotechnology
- Chemical and Petrochemicals
- Environmental Testing
- Food & Beverage Testing
- Others

Breakup by Region:

- North America
- United States
- Canada
- Asia-Pacific

China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agilent Technologies Inc., Bruker, Danaher Corporation, JEOL Ltd., Kore Technology Ltd., LECO Corporation, PerkinElmer Inc., Rigaku Corporation, Shimadzu Corporation, Thermo Fisher Scientific Inc. and Waters Corporation.

Key Questions Answered in This Report:

How has the global mass spectrometry market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global mass spectrometry market?

What are the key regional markets?

What is the breakup of the market based on the technology?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global mass spectrometry market and who are the key players?

What is the degree of competition in the industry?

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