IonSense and Cerno Bioscience Introduce Low Cost DART® Mass Spectrometer with Accurate Mass Capability

Cerno's novel MS calibration technology, integrated with the DART GSX equipped Agilent 5975 MSD, enables accurate mass assignment of intact protonated molecules

IonSense, Inc. and Cerno Bioscience, LLC today announce the integration of Cerno's MassWorks™ software with the DART® GSX system, recently introduced at Pittcon 2013. The IonSense DART GSX system enables ambient pressure ionization on the very popular Agilent 5975 GC/MSD. Utilizing Cerno's patented calibration technology the DART GSX delivers accurate mass assignments in seconds at less than half the cost of industry standard high resolution mass spectrometers. The capability to confirm mass values for intact ionized molecules address the unmet needs of QA/QC chemists in a variety of industries served by the Agilent MSD product, such as food safety, forensics, and chemical analysis.

This combination of innovative products reduces the cost of acquisition of an accurate screening instrument to under $100,000. IonSense currently supplies its popular DART-SVP source for use with high resolution mass spectrometers from all of the LC/MS vendors. "Many laboratories in the food, fragrance and forensic analysis business would like to have a high performance LC/MS instrument" according to Brian Musselman, President of IonSense, "those systems just cost too much and use lots of organic solvents adding to operating costs". Direct analysis in real time (DART) technology saves time by eliminating significant sample prep, and is useful for rapid screening of samples with most analysis requiring only a few seconds.

Cerno BioScience has supplied its award winning MassWorks software for over 6 years according to company Founder and President Yongdong Wang, Ph.D. The software uniquely determines accurate mass elemental composition on a quadrupole MS through 100x improvement in mass accuracy and the novel concept of spectral accuracy.

The companies co-market the product, offering the Cerno software and follow-up training program to all customers who purchase the DART GSX. As people come to know the value of accurate mass, Musselman expects a rapid expansion of the market for the Cerno / IonSense product, "Basically there is nothing like an accurate mass value to confidently determine a compound".

About IonSense

IonSense, Inc. provides OpenSpot Mass Spectrometry™ solutions to the fields of food safety, forensics, drug development, and chemical analysis. They manufacture and develop direct analysis in real time (DART®) and atmospheric solids analysis probe (ASAP™) technology. The company provides sources and accessories for JEOL, ThermoFisher, Agilent, AB SCIEX, Bruker, Shimadzu, and Waters mass spectrometers. IonSense products including DART and ASAP technologies are distributed in Europe by KR Analytical Ltd, in China by ASPEC Technologies, in Japan by AMR Inc., in India by Orochem India, in Korea by Omics Biotech, in Canada by VBM Science, Ltd., and International Laboratory Supplies Pte. in Singapore.

About Cerno Bioscience

Cerno Bioscience's MassWorks™ family of software products performs post-acquisition MS calibration and formula determination through either CLIPS at unit mass resolution or sCLIPS at higher resolution. It supports all major MS vendor data formats and works with all MS instruments including GC/MS, LC/MS, TOF, qTOF, and FT MS. Cerno Bioscience products are used in major R&D labs in the pharmaceutical, food, beverages, flavors, fragrances, natural products, environmental, forensics, fine chemicals and petrochemical industries. The Mathworks products are used to dramatically improve the amount of information and reduce the amount of time required of many MS experiments. Cerno's technologies are protected through numerous patents granted and submitted world-wide. Cerno Bioscience is a registered trademark and MassWorks, CLIPS, and sCLIPS are trademarks of Cerno Bioscience.