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Announcing Symbion QT, Expert Chemometrics Made Easy

TUSTIN, Calif., January 14, 2013 – [Symbion Systems, Inc.](#), a leader in providing analytical instrument control, analysis, and connectivity software for both laboratory and process analysis, today announced the release of Symbion *QT* a new multivariate software program which provides the full capability of modern chemometrics without requiring specialized training. The *QT* Model Builder employs a step by step workflow approach which guides beginner and expert alike through the process of assembling the data needed to build and evaluate calibrations. The resulting calibrations are fully validated and documented and ready for deployment. The workflow approach is based directly on the way that expert chemometricians handle these tasks. The entire *QT* package has been developed from the ground up to provide a completely natural, non-intrusive development environment which frees the user to focus directly on meeting project requirements without worrying about menu trees, keystroke sequences, or software syntax.

According to Dr. Michael A. Power, R&D Director at Symbion Systems: “In developing Symbion *QT*, we took the viewpoint of the intelligent but non-specialist user. We placed the chemometrics engine in the background and focused on the logical steps needed to acquire and process analytical data and to use it to produce calibrations which deliver validated results. Symbion *QT* guides the user through model development in a natural, efficient manner. It begins with overall data assembly followed by rapid and flexible designation of training, test, and validation sets. It continues through the choice of preprocessing and analysis routines, and the analysis and validation of prediction results. A full set of visualization tools is available to illuminate each step of the process.”

The *QT* Predictor enables real-time monitoring of chemical systems during laboratory development or on-line processing. When used in conjunction with a multi-threaded process monitoring program such as Symbion RTM, it provides the ability to output numerous analytical predictions per second while providing appropriate prediction metrics and outlier status indications. Available “Full Life-Cycle Optimization”™, employing automated internal diagnostics, allows the user to track the validity of a model over time and to make adjustments whenever necessary. All changes are fully documented, providing full compliance with 21 CFR, PART 11.

Symbion *QT* is the newest member of the Symbion’s expanding line of software products for laboratory and process analysis. Symbion DX and RX provide a comprehensive capability for analytical process development. The latest version of these products, Version 2.5, preserves all of the advanced features of earlier versions while adding several new capabilities, including a significantly expanded database functionality inherent in the use of a standard Oracle™ database. The result is a true universal “Spectroscopic Data System” for use in LIMS, pharmaceutical PAT (Process Analytical Technology) development, and on-line chemical process monitoring – in essence, closing the loop in Quality by Design (QbD). In addition, Symbion RTM provides a very rapid

deployment capability which can provide thirty or more simultaneous predictions per second by using multithreaded data processing.

In summary, the Symbion family of software products provides a standardized platform for controlling a wide range of spectrometers and other analytical instruments. In addition, it provides comprehensive data manipulation and chemical development capabilities as well as the ability to communicate with numerous chemometric routines, other third party programs, and enterprise-wide data systems. Symbion also provides comprehensive multi-instrument analytical capability within a single program, eliminating the need to train operators and analysts on a variety of different software platforms. Symbion RTM allows all of these capabilities to be deployed continuously on-line in a secure, locked-down package, enabling the control of all analytical functions within a unit operation.

About Symbion Systems, Inc.

Symbion Systems, Inc. was founded in 2002 to develop and market standardized instrument control and data management software for the analytical instrument and process analytical industries. The company's products are employed both by instruments manufacturers for instrument control and data handling and by end-users for integrating diverse functions in laboratory and chemical process installations. In addition, Symbion works closely with its sister company, Axiom Analytical, Inc. to develop and implement comprehensive hardware and software systems for on-line process analysis.

More information about Symbion Systems, Inc. can be found at <http://www.gosymbion.com/>.