Measurement & Analytics | Measurement made easy

Horizon MB™ QA
Advanced spectroscopy software for quality assurance and quality control

Horizon MB™ QA software provides unique benefits to users of FT-IR and FT-NIR analyzers.

Intuitive Workflow

The Horizon MB QA software makes running quality assurance and quality control (QA/QC) applications simple and reliable for laboratory staff by providing intuitive workflow along with integrated spectrometer and accessory control. The software will guide the user in every step from collecting reference data to designing your QA/QC applications to deployment of turnkey methods. Support for customized messages in any language makes users feel right at home from day one.

Superior Ease of Use

The Horizon MB™ QA Software is designed for routine lab analysis and at-line QA/QC. The Sample Analysis function enables plant and laboratory operators to quickly obtain accurate and repeatable results. Adapting to the new Horizon MB™ QA Software is easy and requires no spectroscopy knowledge.

Simple Analysis

The analysis features for laboratory or at-line QA/QC were designed in collaboration with our customers. The software offers all the features required to perform routine qualitative and quantitative material analysis.

Features and Benefits

– Support of legacy instrument (FTLA) platform
– Full instrument validation
– Pre-configured workflow with sequential data acquisition, analysis, and reporting
– Makes routine analysis of physical and chemical properties easy and eliminates operator errors
– Configurable for Batch Mode operations
– Configurable settings allow extensive customization including user defined messages that can be written in any language
– Comprehensive status display for concentrations and analysis history
– Complete reporting solution
– Support chemometric options including peak height/area, Horizon MB™ Quantify, PLSplusIQ, GRAMS-IQ, SIMCA P+, and Unscrambler models
– Extensive diagnostics and real time analyzer health monitoring to track the status of the analyzer
– Intelligent tools for data export and archiving
– Usable in 21 CFR part 11 compliant mode and in other regulated environments.

Intuitive User Interface

– Comprehensive console for status display, measurement history, and reporting
– Analysis of FT-IR/FT-NIR spectral data to obtain physical and chemical properties

Facilitating qualitative and quantitative analysis.
Providing secure and efficient analysis.

Method development
Simple implementation of sophisticated methods
Horizon MB™ QA software includes all the features required to help developers build sophisticated methods that are simple to implement.

Horizon MB™ QA accommodates a variety of chemometrics prediction algorithms including peak height/area, Horizon MB™ Quantify, GRAMS-IQ, PLSplusIQ, SIMCA P+, and Unscrambler models. Its flexible multilevel discrimination structure ensures accurate, reliable results and greatly minimizes the probability of false positives or inaccurate quantitative predictions. This feature allows you to implement calibrations that will first identify the class of a product and then choose the right model for this class to obtain a quantitative property prediction.

Diagnostics
– Comprehensive analyzer health monitoring
– Monitor accessory status
– Spectral and chemometrics model diagnostics
– Remote access using Internet Utilities
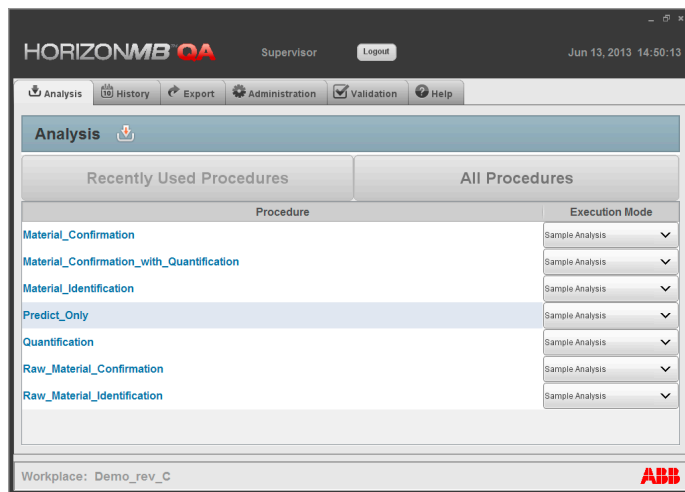
Validations
Numerous validation routines integrated in the software verify that your instrument is operating as it should. Validation can be performed in accordance with ASTM and/or Pharmacopeia protocols.
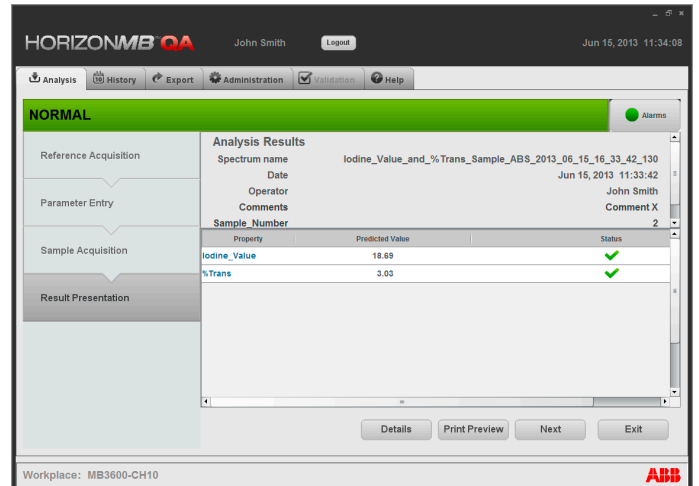
Security
The supervisor can determine precisely which functions are available to each type of user. For example, you can enable sample analysis only at the operator level. This feature ensures that no changes in instrument configuration requiring revalidation could occur without permission. All the data is date/time stamped and securely archived after each analysis. Configuration and measurement results are stored in a secure database. The spectral data are saved in separate directories that are automatically generated on a monthly basis. This allows use of the software in CFR 21 Part 11 compliant mode and other regulated environments.

Efficiency
The use of Horizon MB™ QA and ABB FT-IR/NIR analyzers will greatly increase your analytical throughput. It helps you cope with ever-increasing analytical requirements while saving time and money. This combination makes the analysis simple and minimizes the potential for human error. Horizon MB™ QA has unique features that make it a world class QA/QC software.

Versatility
A number of different analysis methods can be used inter-changeably. Each method may be represented with a separate button that identifies the method, for example the class of product to be tested. In this way different operators may use the same analyzer for the analysis of different products. Configurable settings allow the analysis sequence to be customized for each application.

Contact us

ABB Analytical is one of the major ABB manufacturing facilities for laboratory and process analytical systems with more than 35 years of experience in developing FT-IR and FT-NIR spectrometers for industrial, military and space applications.

As part of our portfolio of products and services for process optimization, we are able to offer a full range of custom calibration modeling services and application support for industrial applications.

Minimum Requirements

Hardware

- Minimum 2GB of RAM required (4GB recommended)
- Minimum 80 GB of hard disk
- Intel Pentium or newer x86 CPU
- Ethernet connection
- 1024x768 or better resolution with at least 256 color support
- DVD reader

Software – US English Windows®

- Windows® 7 - 64 bit edition recommended
- Windows XP Service Pack 3, Windows Vista Service Pack 1 and Windows 7 - 32 bit edition supported
- Any existing SQL Microsoft software may interfere with the installation and proper operation of Horizon MB QA

ABB also provides extensive, globally distributed after-sales support and engineering services, as well as a full customer training program.

IR & NIR Spectroscopy Knowledge Management

- Application support and spectroscopy training
- Calibration and chemometrics development training
- On-site services including hardware and calibration maintenance

Up-Time Insurance Program

- Preventive maintenance
- Extended warranty services
- Tailor-made service contracts
- Chemometrics services

Installations / Start-ups & Analyzer Life Cycle Program

- Process spectrometer start-ups
- Laboratory spectrometer installations
- Spectrometer and laboratory / process software exchanges / upgrades
- Extended process and lab spectrometer warrantees

ABB Inc.
Process Automation
Measurement & Analytics
3400, Rue Pierre-Ardouin
Quebec (Quebec) G1P 0B2
Canada
Tel.: +1 418 877-2944
1 800 858-3847 (North America)
Fax: +1 418 877-2834
E-Mail: ftir@ca.abb.com

www.abb.com/analytical

Sales   Service

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