

1 Purpose

This document describes the fixed bugs and problems as well as improvements in the following new software versions in comparison with the previous versions.

- New: 3.1
- Old: 3.0

2 New features

Topic	Description
Software acquisition	The ability to acquire data while connected to the software was added.
Mixture analysis	An algorithm for analyzing mixtures was added to the instrument.
Barcode OP selection	The ability to select Operating Procedures by scanning a barcode was added.
Force calibration	A timer can be set to force instrument calibration at certain intervals of hours.
Batch Reports	Batch reports have been added to demonstrate a Pass/Fail result for entire batches of materials.
Admin only archiving	Setting that allows data to be archived by an administrator only.
Sync signed OPs only	Setting that allows only Operating Procedures that have been signed to be synchronized to the instrument.
Re-tune Y-axis calibration	The service portal now has a function to re-apply the y-axis calibration if an instrument fails the Intensity test during the SST.
Upload Factory Settings	The service portal now has a function to upload a factory settings file in the event that an SD card is replaced in the field.
Desktop support file	A desktop support file can now be generated in the software to assist in trouble shooting problems in the field.

Topic	Description
Audit Trail filters	The audit trail can now be filtered by date range, user, action type, and instrument serial number.
Sample filters	When adding data to libraries/training sets, samples can be filtered by name and date range.
Multiple signing	Multiple spectra can be electronically signed at once.
New barcode fields	Batch ID and Container number information fields were added.
Software barcode scan	The barcode can now be scanned directly from the software rather than entering it manually.
On-board calibration	Instrument calibration and System Suitability Test can now be performed directly on-board the instrument
Sample Report Overlay	The sample reports now show the acquired spectrum overlaid with the top library match.
System Suitability Report	The System Suitability report now shows the tolerances and measured values for the various instrument tests performed.
Custom Logos	Different logos can now be added to all reports.
Report format	Sample reports can now be exported in .csv format.
Multi-sign data	Multiple sample spectra can be signed at the same time.
Hide all characters	When entering a password on the instrument, all typed characters are now hidden.
Improved baseline correction	Improvements made to the baseline correction routine to reduce the number of artifacts and improve matching.
Synchronization screen	The synchronization screen is now persistent until it is manually closed.

Topic	Description
USB connection	Improvements were made relating to the stability of the USB connection to the software.
Software installer	The software installer now includes all necessary Windows components.

