![Metrohm Raman logo]

1   Purpose

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

- New version: 1.2.50
- Old version: 1.1.14

2   New features

Topic	Description
XTR checkbox	- An XTR checkbox displays XTR data stored in the **Baselined** property if XTR metadata exists for that sample. - Samples taken with previous versions of the device firmware may not be recognized as XTR samples. - Baselined and XTR data are selected or deselected separately from each other (displays **Calibrated** for that type if deselected).
XTR options for operating procedures	Operating procedures have XTR options or can be disabled from settings (once an XTR-enabled device has been connected).
XTR metadata	RMNB, BRMS, and SRMP file formats contain representations of XTR metadata.
Disable XTR features	**[Disable XTR Features]** option in **General Settings**: Settings must be saved before UI changes are enacted.
X and Y calibration	Added **[XTR X-Calibration]** button. Y calibration has been updated (service portal only).

Topic	Description
Auto synchronization	**[Auto Synchronize]** of operating procedures and libraries is selectable in **Settings**. ■ Added options for when auto synchronization is off to allow custom synchronization. ■ Users can choose custom synchronization of operating procedures, licensed libraries, and user libraries when **[Auto Synchronize]** is disabled. ■ Samples will always synchronize automatically, regardless of other synchronization settings.
Advanced mode	Advanced mode can be password protected. ■ First time enabling this feature, password change is required. ■ Add/remove users via **File ▶ Advanced ▶ Manage Advanced Users**, or by toggling option in menu. ■ Users can change their password once logged into advanced mode.
New language packs	
Spelling corrections	"Mira" is updated to "MIRA".

3   Improvements

Topic	Description
Syncronization changes	Improved handling of synchronization protocols from the device to MIRA Cal DS.
Licensed libraries	All licensed libraries are always "viewable". ■ Licensed libraries that are uploaded as individual LRME + LRMC (as opposed to via a certificate package zip file) do not unlock the library on desktop. In this case libraries will be empty/read-only. However, they may be used to create operating procedures. ■ The "Illicit Materials (SERS)" library (id=79a2ceb9-3c35-4b61-846d-c6cc9807c89f) is a special case and is hard-coded to be added as a read-only library in certain cases.
Operating procedures	■ Default operating procedure identification threshold changed from 0.85 to 0.75. ■ Operating procedures with **XTR Mode** other than "Never" will no longer synchronize to devices without the XTR capabilities. ■ Operating procedures created on desktop will default to **XTR Mode** of "Never" if XTR features are not enabled, or "Automatic" if XTR features are enabled. ■ Operating procedures built on devices that do not have XTR will have their XTR Mode set to "Never" on desktop when a sync operation runs.

4 Fixed bugs

Multiple bug fixes and backend improvements to synchronization operations (device and desktop).

5 Known issues

One cannot view XTR processed data and baselined data for the same spectrum at the same time. One cannot view baslined data of an XTR processed spectrum.