

The quality assurance/quality control (QAQC) application consist of two methods (QAQCStd and QAQCSamp) that will compare a test sample against a reference standard and report a pass or fail based on a Pearson correlation at 95% and 98%. The methods can be downloaded via the i-LAB[®] Spectrum Software from the www.microptixtech.com website. This document provides the basic instructions for downloading and running the Quality Assurance/Quality Control Methods.

Downloading the Methods:

1. Create a New Methods Folder in Spectrum called QAQC.
2. Click on the QAQC folder and click on the "Add Method (from Web)" tab.
3. Enter License Key **97b3749c-07b1-4c12-b9ed-395c78636608** to download the QAQCStd Method.
4. Click on the "Add Method (from Web)" tab again and enter License Key **893e9429-de22-4741-9db5-df35d9726057** to download the QAQCSamp Method.
5. Turn on your i-LAB[®] and connect to the computer with the included USB cable.
6. Click on each method individually and click on the "Send to i-LAB" tab to download the methods to your i-LAB[®] hand-held spectrometer.

Running the QAQC Methods:

There are 2 steps required to run the QAQC application:

1. Scan and save your reference standard with the QAQCStd method.
2. Compare your sample(s) against this reference with the QAQCSamp method.

Scanning the Reference Standard:

1. Turn on the i-LAB[®], Press the Menu Button and Select QAQCStd under Methods.
2. Following the prompts, you will be asked to Scan your blank and then Scan your Reference Standard. The reference spectrum will be saved and be used as the standard to compare against your samples.
Once you have scanned your reference standard, you will not need to run this method again unless you want to update or change your reference standard.

Comparing your Sample against the Reference Standard:

1. Turn on the i-LAB[®], Press the Menu Button and Select QAQCSamp under Methods.
2. Following the prompts, you will be asked to Scan a blank and then Scan a QC Sample. The i-LAB[®] will compare the sample spectrum to the reference spectrum and ***pass*** the sample if it's Pearson Correlation is 95% or 98% or greater or ***fail*** the sample if the Pearson Correlation is less than 95% or 98%. The results will be automatically saved to the log.

The QAQCSamp method can be run repeatedly for as many samples as are necessary.