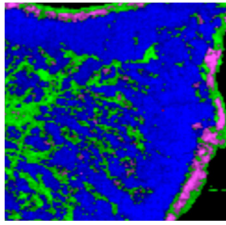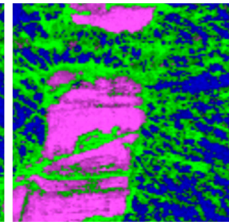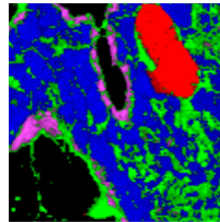# HORIBA Scientific

χ*STaiN*™: Instant Raman Analysis

Get Automated Expert Analysis

Chemometrics Tools for Enhanced Raman Images

χ*STaiN*™ is HORIBA's innovative and intelligent tool for fully automated processing and analysis of Raman 2D images. It builds on HORIBA's multidecade expertise in the analysis of spectral images through our global network of partners.

Feed your 2D Raman raw data set to the χ*STaiN*™ App and get impressive results about your sample. You are just one click away from obtaining the most relevant Raman image!

Fast and easy-to-use application, χ*STaiN*™ processes the hyperspectral data and classifies compounds within a sample using intelligent chemometrics tools.

From first-time user to expert, discover the instant benefits from χ*STaiN*™ LabSpec 6!

Evaluation of the number of compounds

Display of the Instant Raman Image

Image display options

Data export options
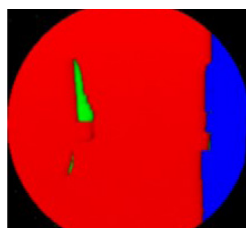
Display of the Raman spectra of compounds

Raman analysis of a wipe sample in only 80 seconds
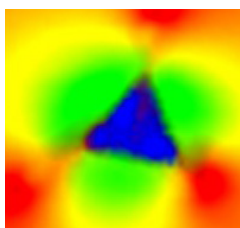
χSTaiN™ Highlights Your Applications

Raman Imaging is a technique that follows a well-established protocol:

- The first step is the acquisition of a Raman hyperspectral data set. The workflow should be optimized depending on the details of the sample and its structure.

- The second step is the processing and analysis of this data. χ*STaiN™* will straightforwardly manage the Processing and Analysis more simply and faster than conventional solutions.
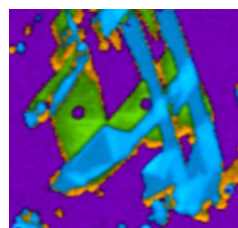

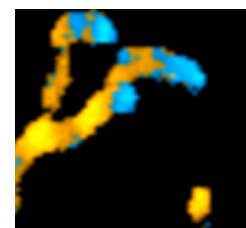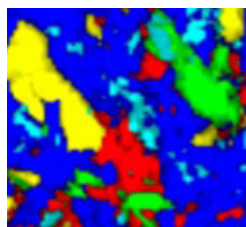With χSTaiN™ access a wealth of applications much faster and more reliable

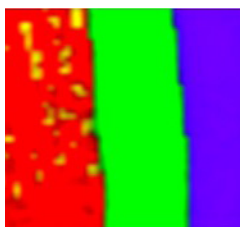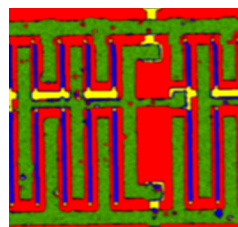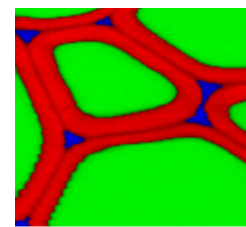|			
Silicon Carbide	Nano-indented Silicon	Graphene	Carbon Nanotubes
Geological Section	Pharmaceutical Beads	Poly-Silicon Chip	Wood cells

χ*STaiN™* App Main Features

- Ultra-fast reliable one click operation
  - Optimized Processing operations: baseline subtraction, filtering/smoothing and normalization
  - Advanced chemometrics procedures based on Principal Components Analysis and Multivariate Curve Resolution
  - Automated loadings/chemical compounds evaluation including a confidence indicator

- Customizable Image display of spatial distribution of the most contributive chemical compounds

LabSpec 6 Raman software offers complete and versatile functionality with new EasyNav technology , acquisition, processing, analysis, and display of data, in addition to flexible automation solutions. The entry level functionality is complemented by a number of optional add-on applications in the LabStore : ViewSharp, ParticleFinder, MultiPoints, MultiWell, EasyIMage, SmartSampling, MVAPus, KnowItAll, DLC, Si Stress, PhotoCurrent.

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