tornado
spectral systems

Please join Tornado Spectral Systems at the

IFPAC 2018 Annual Meeting

ADVANCING THE UNDERSTANDING & CONTROL OF MANUFACTURING PROCESSES

February 12-14, 2018

Bethesda North Marriott | Bethesda, MD

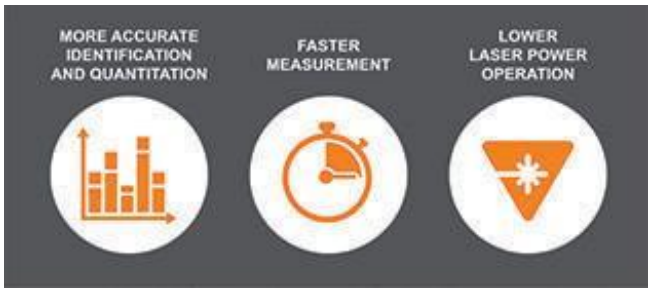
Meet our experts and learn more about Tornado's HyperFlux™ PRO Plus

Visit us at **booth 209** and learn more about our **HyperFlux™ PRO Plus** Raman Spectroscopy system! Our team will demonstrate how you can achieve the best possible combinations of **signal strength** and **spectral resolution** in a dispersive spectrometer.

High Throughput Virtual Slit (HTVS™) Performance Advantage

Sensitivity, Speed and Safety

Tornado's proprietary HTVS design eliminates spectrometer slit losses while maintaining high spectral resolution.



What can be done with the HTVS performance advantage is game-changing:

(A) 10X Improvement **in Spectrometer Throughput and Signal Strength**

(B) 3X to 6X Improvement in SNR **-** ***more accurate identification and quantitation for challenging mixtures and low concentration levels***

(C) 10X to 30X Faster Measurement **-** ***for precise tracking of rapid changes and transient features***

(D) Lower Laser Power Operation **-** ***for improved safety and reduced sample damage***

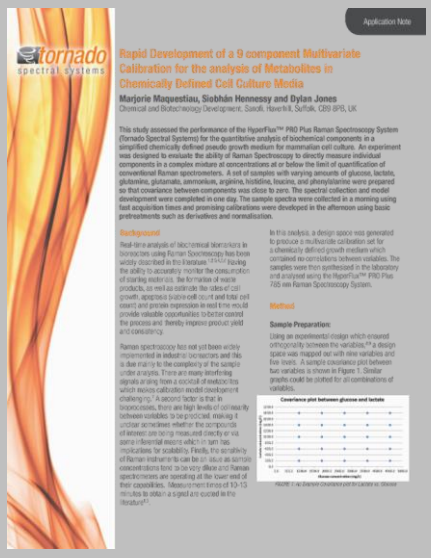
Featured Application Note

9 Component Multivariate Calibration For The Analysis Of Metabolites

Featured Video

Demonstrating the Speed & Sensitivity of Tornado's HyperFlux PRO Plus: *Real-time*

An assessment by Sanofi UK of the performance of the HyperFlux™ PRO Plus Raman Spectroscopy System for the quantitative analysis of biochemical components in a simplified chemically defined pseudo growth medium for mammalian cell culture.


Application Note

Rapid Development of a 9 component Multivariate Calibration for the analysis of Metabolites in Chemically Defined Cell Culture Media

Marjorie Maquestiau, Siobhán Hennessy and Dylan Jones

Click here to request your copy!

Raman Spectroscopy of Propylene Glycol in Water

To demonstrate the sensitivity of the PRO Plus for making real-time process measurements or for reaction monitoring, we've performed a simple experiment where we add small quantities of propylene glycol to water and then monitor the mixture with a PRO Plus analyzer and immersion probe.

Watch Now!

Can't Make It To IFPAC?