

Press Release

Rigaku NEX QC VS EDXRF Application Note: RoHS Rapid Screening by Benchtop XRF

Austin, TX – July 10, 2012. Applied Rigaku Technologies, Inc. is pleased to publish a new application report for the advanced Rigaku NEX QC VS analyzer. Rigaku Application Note #1238 demonstrates performance for the elemental analysis of Chromium (Cr), Mercury (Hg), Lead (Pb), Bromine (Br) and Cadmium (Cd) in polyethylene (PE) by XRF rapid screening. Empirical calibration summary and detection limits are shown and instrument repeatability is presented.



The Restriction on Hazardous Substances initiative (RoHS) limits the allowable amounts of toxic elements in plastics and consumer goods. X-ray Fluorescence (XRF) is an established analysis technique for rapid screening to quickly determine the presence of hazardous materials regulated by the RoHS and RoHS 2 protocols.

To meet the industry challenge, Rigaku offers the NEX QC VS analyzer, a new low cost benchtop Energy Dispersive X-ray Fluorescence (EDXRF) spectrometer with variable analysis spot size, specifically designed to serve the RoHS markets.

The new method adheres to ASTM test method F2617, *Identification and Quantification of Chromium, Bromine, Cadmium, Mercury, and Lead in Polymeric Material Using Energy Dispersive X-ray Spectrometry*. The Rigaku NEX QC VS is shown to be a reliable and rugged low-cost tool for measuring the toxic metals in PE and similar polymers both for screening incoming raw materials as well as during the production process.

Request a copy: http://www.rigakuedxrf.com/edxrf/app-notes.html?id=1238_AppNote

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on life sciences and general purpose analytical instrumentation. With hundreds of major innovations to its credit, Rigaku and its subsidiary companies are world leaders in the fields of small molecule and protein crystallography, X-ray spectrometry and diffraction, X-ray optics, as well as semiconductor metrology. Rigaku employs over 1,100 people globally and its products are in use in more than 70 countries – supporting research, development, production control and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial community.

For further information, contact:

Scott Fess
Product Manager
Applied Rigaku Technologies, Inc.
tel: +1. 512-225-1796
info@RigakuEDXRF.com