

## Press Release

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

**Austin, TX – October 24, 2012.** Applied Rigaku Technologies, Inc. has published a new application report describing the rapid screening of toxic substances in consumer goods by X-ray Fluorescence (XRF) spectrometry. 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*.



Rigaku Application Note #1265 demonstrates performance of the Rigaku NEX QC VS analyzer for the elemental analysis of Chromium (Cr), Mercury (Hg), Lead (Pb), Bromine (Br) and Cadmium (Cd) and Chlorine (Cl) in consumer goods, by XRF spectrometry rapid screening using the Fundamental Parameters method (FP). The analysis described is suitable for the screening of incoming raw materials and during the manufacturing process of polyethylene (PE) and other plastics.

The Restriction on Hazardous Substances (RoHS) initiative has been in effect for several years and regulates the maximum allowable levels of toxic elements in consumer goods, particularly in plastics and polymers. XRF is used in RoHS and similar protocols as a tool for rapid screening to quickly determine the presence of hazardous materials,

The RoHS initiative limits the allowable amounts of toxic elements in plastics and consumer goods. 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 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=1265\\_AppNote](http://www.rigakuedxrf.com/edxrf/app-notes.html?id=1265_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.

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