DuPont continues to pursue x-ray fluorescence (XRF) technologies that present advanced measurement opportunities that expand support to key growth areas of the company. The utilization of portable XRF instrumentation has had an immediate impact on DuPont Crop Protection’s emerging seed treatment business as it launches new offerings that contain Rynaxypyr® and Cyazypyr™. Halogens associated with these insecticides are detectable and quantifiable by XRF. As a result, at-line measurements by portable XRF have demonstrated significant reductions in cycle time and a step change in the efficiency of plant scale-ups and other production activities. Similar reductions in cycle time are also being investigated for long term programs where the non-destructive nature of XRF analysis allows the pre-screening of treated seeds prior to extensive growth chamber studies.