



# Terra/BTX at Work

Comparison of resolution and sensitivity of the Terra/BTX series of XRD instruments versus high power laboratory based XRD instruments.

Background: Large laboratory based 2KW instruments have long been the standard for the determination of mineral/phase ID by X-Ray diffraction. With the introduction of Terra/BTX, a small low powered system (10W) is now available. This, of course, raises important concerns about the performance of a 10W XRD instrument versus a 2000 watt instrument. To compare the respective performance a series of different samples were analyzed on both 2KW systems and Terra/BTX. As can be seen below, both the resolution and peak/background compare quite favorably suggesting the performance of Terra/BTX is well suited for applications previously thought possible only by higher power instruments.

