

E-Max

Portable Heavy Metal Analyzer

EPA 6200

Quantify Cd at Unprecedented Low Level

Powered by low power Monochromatic X-Ray Fluorescence analysis technology, HDXRF® technology, E-max meets the challenge of measuring low level Cd in agriculture soil. In addition, Emax offers simultaneous measurement of other heavy metals like As, Pb, Cu, Ni, and Cr in soil and agricultural products such as rice and other agriculture products. Whether you are an agricultural inspector or environmental assessor, E-max enables you to run more samples in less time, allowing you to conduct a more thorough analysis for improved site remediation and land use decisions.

Accuracy

With complex matrices such as soil, it is essential to demonstrate accurate results that compare well with various standards. Figure 1 shows that HDXRF can deliver accurate results across a wide range of Cd concentrations, including soils that have contamination below 0.3 ppm.

Repeatability

Reliable data is repeatable when following the same measurement process with well-prepared samples. Table 1 depicts repeatable results for each of the reference standards with below-limit concentration of Cd in soil.

Features

- Ultra-high signal-to-background ratio and ultra-low
- Portable design: light weight and comfortable to carry
- Minimum sample preparation enables on-site sampling and quantification



Specifications

Measurement Time	30-1800 seconds
Element Range	Up to 40 Elements from K - U
Data Storage & Output	Printout, Ethernet, USB, Internal Storage, USB Flash Drive
I/O Ports	Ethernet 10/100, USB
Power	110-240 VAC $\pm$ 10%, 50-60 Hz (hertz)
Built in Battery	12-24V 98mAh
Operating Temperature	5°C to 40°C
Operating Humidity	30 – 85 %
Weight	8kg
Dimensions (WxDxH)	23 x 30 x 26 cm