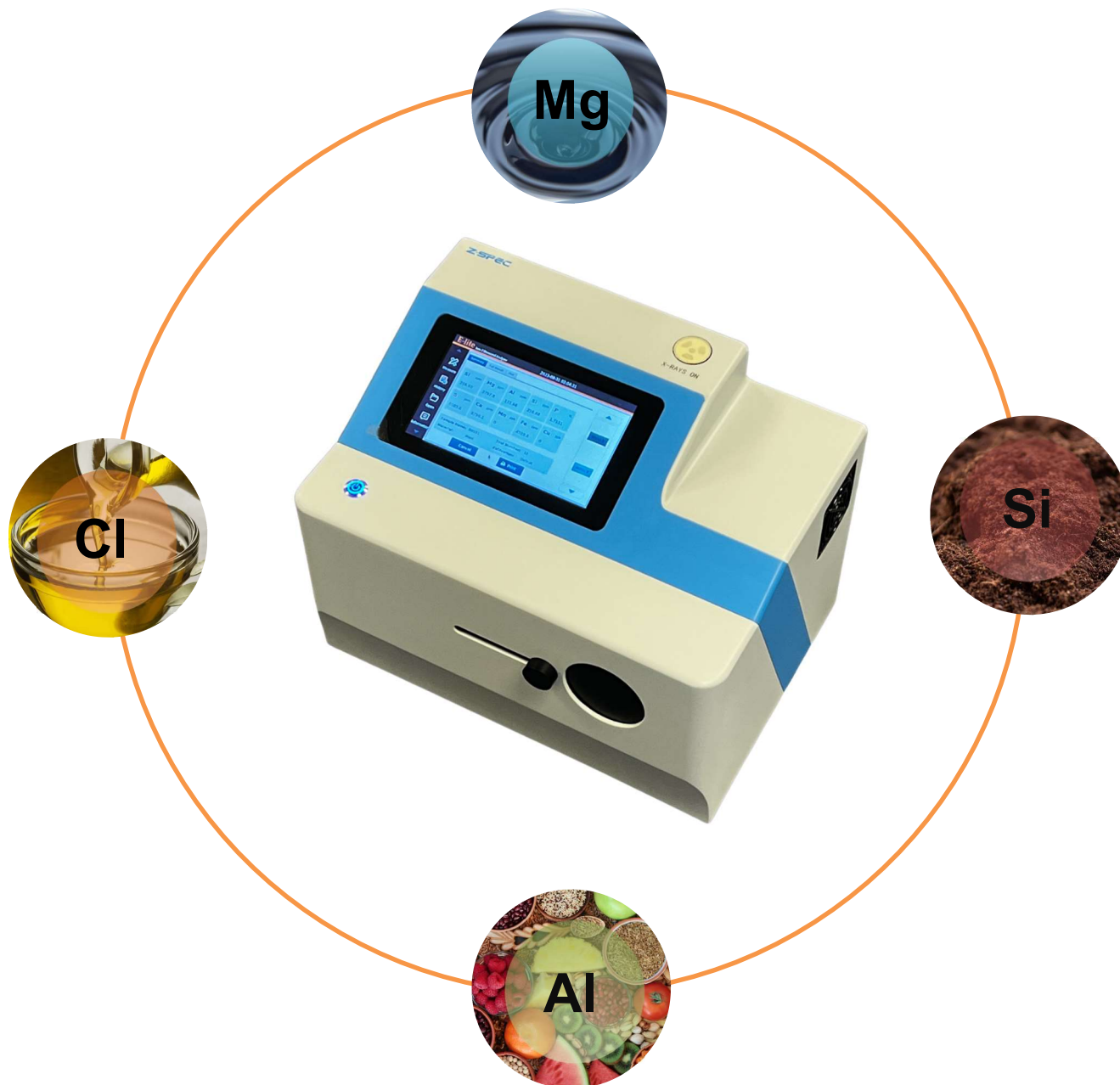


E-lite

Quantify Low-Z elements in Food and Soil



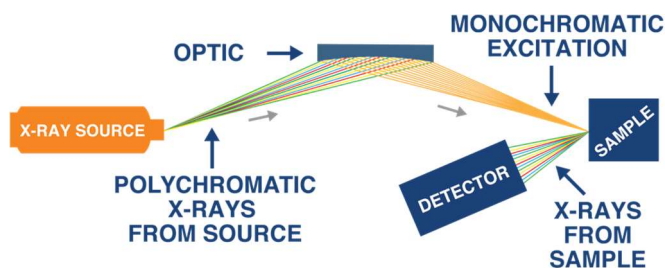
The E-lite series delivers high-precision low-Z elemental analysis from Na to Ca across a broad measurement range, for rapid monitoring of critical elements like Mg, K, Cl, S, and P at a few ppm levels in food, plant, and soil.



MXRF Innovative Technology

E-lite is powered by Monochromatic X-ray Fluorescence (MXRF) technology: an elemental analysis technique offering significantly enhanced detection performance over traditional Energy Dispersive X-ray Fluorescence (EDXRF) technology. This technique applies state-of-the-art monochromating and focusing optics, enabling dramatically higher signal-to-background ratio compared to traditional polychromatic X-ray Fluorescence. **Figure 1** shows the basic configuration of MXRF and its use of focused monochromatic excitation.

Figure 1: MXRF Technology



Features & Benefits

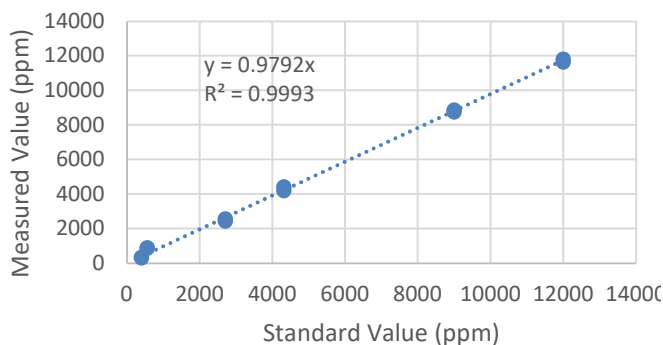
- Ultra-high signal-to-background ratio and ultra-low detection limit
- Robust Calibration with one curve covering entire range
- Minimum sample preparation enables on-site sampling and quantification



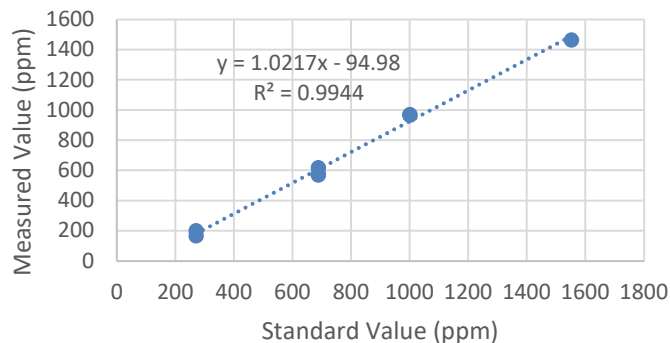
Accuracy

The accuracy of Elite was verified by comparing the measurement results with various reference standards, as shown below,

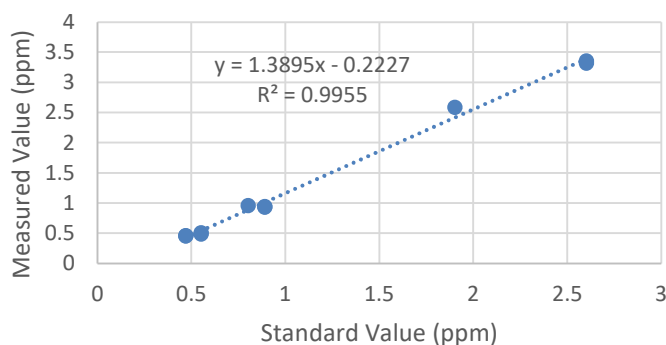
Mg in Plant



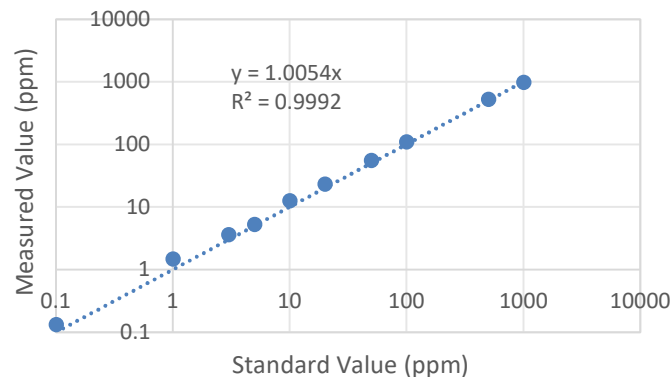
P in Soil



Na in Soil



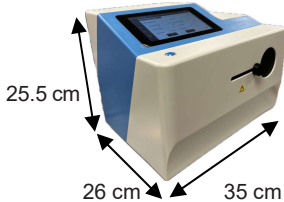
P in Edible Oil





Technical Specifications

Limit of Detection & Applications						
E-lite	Limit of Detection (ppm@ 300 s)	Na	Mg	Al	Si	P
		500	50	10	3	2
		S	Cl	K	Ca	
		0.3	0.2	0.2	0.2	
	Applications	Lite elemental analysis in food, plant, and soil				

E-lite Specifications	
Method Compliance	EPA6200
Measurement Time	30-900 seconds
Element Range	Na - Ca
Data Output	Printout, Ethernet, USB, Internal Storage
I/O Ports	Ethernet 10/100, USB
AC Power Supply	110-240 VAC $\pm$ 10%, 50-60 Hz (hertz)
Operating Temperature	5°C to 40°C (41°F to 104°F)
Operating Humidity	30 – 85 %
Weight	10 kg (22 lbs)
Dimensions	26 cm W x 35 cm L x 25.5 cm H 



Z-Spec & XOS

Z-Spec and XOS have partnered together to provide an easy-to-use, robust solution for sulfur analysis. By combining XOS' industry-leading XRF technology with Z-Spec's product-development expertise in the petroleum industry, we're able to deliver the most practical and effective solution to meet customer's application needs.

Z-SPEC

15 Tech Valley Drive Suite 110
East Greenbush, New York 12061 USA

XOS®

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East Greenbush, New York 12061 USA