

Why More Labs Trust Agilent AA Spectroscopy

Built-in performance, automation and support that deliver more than just measurements



60% faster multi-element analysis. Half the gas. Double the productivity.

Core Technology Advantages

Fast Sequential (FS) mode
Multi-element analysis in one run—cutting time, gas, and sample use.

PROMT
PRecision Optimized Measurement Time (PROMT) mode optimizes measurement time based on target precision.

SIPS Automation
Sample Introduction Pump System (SIPS) streamlines dilutions, calibration, and spikes.

Zeeman Background Correction
Provides the furnace performance for exceptional sensitivity, even with tough samples.

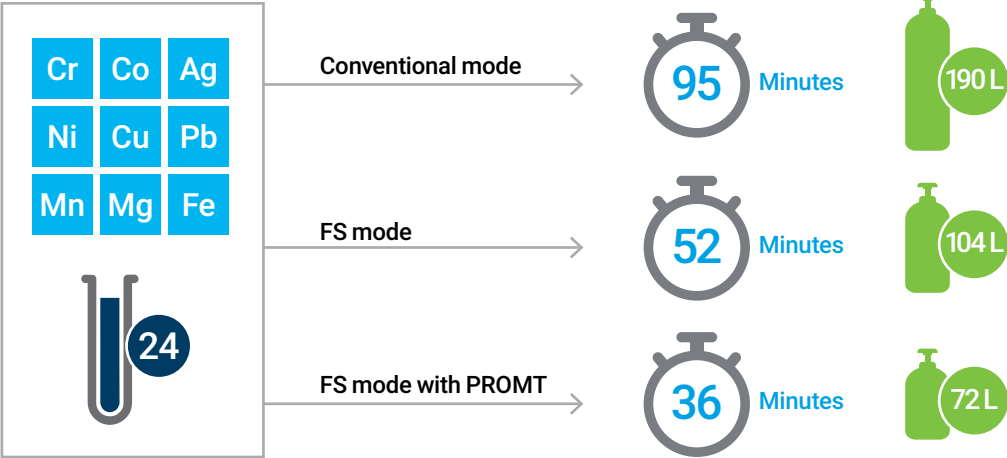
AA Duo
True simultaneous flame and furnace operation from one computer—doubling productivity.

Time and gas savings with Fast Sequential Flame AA

Nine elements across 24 samples were analyzed using:

- Conventional FAAS
- Fast Sequential
- Fast Sequential with PROMT

The analysis used an autosampler, calibration zero, three standards, and 5 s rinses every 10 samples.



Which AA instrument is right for you?

	Flame		Furnace		Duo	
	 55B AA	 240FS AA	 280FS AA	 240Z AA	 280Z AA	 AA Duo
Relative price	●	●●	●●●	●●●●		
Relative sensitivity	●	●	●●	●●		
Dynamic range of measurement	100 ppb to 1000 ppm	100 ppb to 1000 ppm	10 ppt to 1000 ppb	10 ppt to 1000 ppm		
Relative tolerance of solids in sample	●	●	●●	●●		
Typical number of elements	1 or 2	4-14	<8	4-14		
Features	Robust and rugged design Standalone operation Compact footprint	Fast Sequential (FS) mode PROMT Robust and rugged design SIPS-ready by design	Powerful transverse Zeeman background correction Tolerance to challenging sample matrices Automated method development	True simultaneous flame and graphite furnace analysis Doubled productivity No change-over delays		
Typical Application/ Use Case	Au, Ag, and Pt group elements in ore grade material	Ca, Cr, Cu, Fe, K, Mg, and Na in plating solutions Major elements Ca, Cu, Fe, Mg, Na and Zn in food, beverage, and agricultural samples Cations and nutrients in soils Contaminants in unleaded gasoline	Toxic elements in waters (GB/T5750, US EPA method 200.9) Toxic and heavy metals Be, Pb and Cd in soils and sediments (HJ and GB/T Methods) Pb and Cd in fish, sea foods, and plants Pb, Cd, and Cr in electronics and plastics (WEE/RoHS)	Major nutrients (flame) in and toxic/heavy metals (graphite furnace) in food products Major cations (flame) and toxic/heavy metals (graphite furnace) in water		

Productive, Precise, Reliable



Explore Agilent AAS

-  60% faster analysis with FS and PROMT
-  Less gas use and sample volume per run
-  Reduced running costs and increased productivity
-  Reduced rework through automated precision and dilution
-  Simultaneous operation of flame and furnace instruments with Duo
-  Global support and 50+ years of AA innovation