Trace chemical analysis by SERS is made quick and easy with our Simple Silver SERS Vials. A solution containing the chemical of interest is simply added to the 2-mL vial, which is placed in a Raman spectrometer sample compartment (such as our SERS-ID), the spectrum is measured in <1 min, and science moves forward.

- Measure most chemicals at part-per-million (µg/mL) concentrations in 1 minute or less
- No sample drying required
- Excitable from 532 to 1550 nm
- Suitable for all common solvents
- High vial-to-vial reproducibility
- Shelf life > 1 month
- Over 300 chemicals measured
- Suitable for contaminants (e.g. melamine)

**SERS-ID**

- 80 mW at 785 nm
- 400-2300 cm⁻¹, ~15 cm⁻¹ resolution
- Comes in Pelican case with 25 SERS Vials
- Compact: 2x4x5” and light: 1.5 lbs

Many chemicals and biologicals are more SERS-active on gold than silver. Our Simple SERS Microscope Slides, Microplates, and Capillaries are ideal for these analytes. The SERS Microscope Slides, our newest product, are designed for both field and lab measurements. Simply add 10 µL of silver or gold sol-gel solution to the ring center, followed by 10 µL of sample, place at Raman microscope or lens focal point and measure. The gold slides are ideal for explosives and illicit drugs, while silver is best for pesticides and chemical agents.

The Simple SERS Microplates allow rapid analysis of multiple samples, such as eluted chromatography fractions, or drug lead optimization. Simply add 100 µL of sample to the silver or gold sol-gel coated wells. Each well is automatically measured using RTA’s SERS-Lab equipped with a 96 well reader.

The Simple SERS Capillaries are ideal for research and forensic applications, requiring only 10-µL samples. The 1-mm diameter glass capillaries contain a 1-cm-long plug of gold or silver doped sol-gel. These capillaries are suitable for amino acids, nucleic acids, foodborne pathogens, and biological agents, such as anthrax.

The SERS Microscope Slides, Capillaries and Vials can be measured using the SERS-Lab or SERS-ID.

**SERS-Lab**

- 80 mW at 785 nm
- 300-3200 cm⁻¹, ~10 cm⁻¹ resolution

R&D Services are also available. Contact us: sales@rta.biz/860-635-9800/www.rta.biz