







TraceS-1000: Trace Sulfur in Butane and other Gas/LNG Applications Analyzer

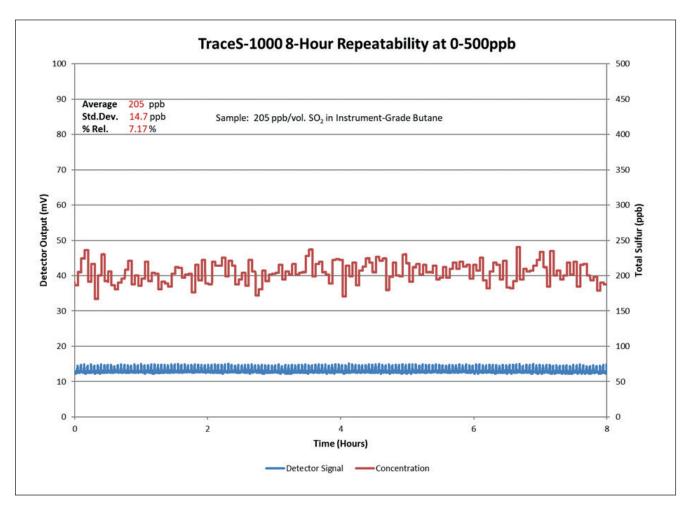
Driven by an increasing need for Total Sulfur trace analysis in gas and LNG products, ATOM Instrument developed the TraceS-1000.

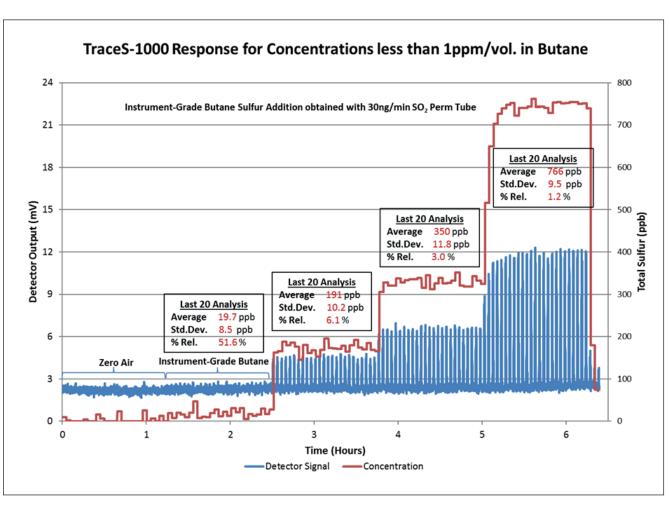
This remarkable online process analyzer incorporates patented **Excimer UV Fluorescence (EUVF)** technology and is specifically designed for measurement of **Trace Total Sulfur** content in applications that require the ultimate in low-level sensitivity, such as polymer-related applications.

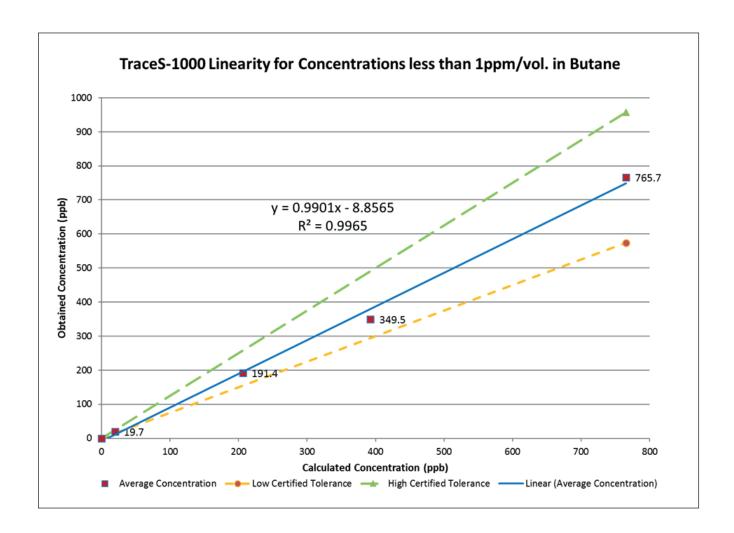
One application where the **TraceS-1000** has demonstrated exceptional analytical performance is the measurement of total sulfur in butane at the **Ultra Low Range of 0-1000 ppb/vol**. Acquired test results reflect excellent linearity, precision and long-term stability for this extremely low range. Analytical results represented were obtained utilizing an oxygen/argon blend for combustion.

The TraceS-1000 provides **unparalleled sensitivity** and rapid response to concentration changes with a typical analysis **time of only 180 seconds**. Instrument operation is simplified with intuitive and user-friendly software, with an added feature that allows data averaging for enhanced analytical precision.

Eight-hour repeatability using a sulfur dioxide (SO₂) permeation tube for sulfur addition to instrument-grade butane demonstrated a **SD of 14.7 ppb at 205 ppb/vol.** concentration or 7.17% RSD. Using the moving average feature, a 3-run analysis (9-min. response time) further improved repeatability, yielding a **SD of 8.5 ppb** or 4.16%. Various concentrations run for linearity characterization reflect rapid response, outstanding repeatability and excellent linearity with a **0.9965 correlation**.











PREMIUM INSIGHTS – GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights' products and solutions deliver innovative and differentiated analysis and measurement solutions and technologies that add high value to our customers and protect the environment.

Our commitment is to deliver smart and affordable innovation that optimizes process, improves safety, and transforms our world.

CENTERS OF EXCELLENCE

PROVIDING PROVEN SOLUTIONS FROM A GLOBAL TECHNOLOGY LEADER

COSA Xentaur

4140 World Houston Parkway Suite 180 Houston, TX 77032 USA +1 713 947 9591 www.atominstrument.com service@cosaxentaur.com

Process Insights - The Americas

4140 World Houston Parkway Suite 180 Houston, TX 77032 USA +1 713 947 9591 info@process-insights.com

Process Insights - EMEA

ATRICOM Lyoner Strasse 15 60528 Frankfurt Germany +49 69 20436910 info@process-insights.com

Process Insights - APAC

Wujiang Economic and Technology Development Zone No. 258 Yi He Road, 215200 Suzhou Jiangsu Province China +86 400 086 0106 info@process-insights.com

OUR PREMIUM GLOBAL BRANDS















Tigeroptics