



WASSON•ECE
INSTRUMENTATION

Wasson-ECE Instrumentation is proud to offer the **Eclipse** line of online process gas chromatographs (PGCs). Eclipse PGCs are the most sensitive and capable online analyzers available to the industry. Eclipses' patented micro-convection ovens enable the precise temperature controls required for laboratory-quality capillary column chromatography.



Low sensitivity analysis (ppm to ppb) is achieved by combining the precision and responsiveness of the Eclipse ovens, state-of-the-art programmable electronic pressure and flow controls, and the most sensitive GC detectors on the market.

- *TCD, FID and PHDID*
- *Agilent 5977b Mass Spectrometer*
- *VUV Analytics VGA 100 or 101 Analyzers*

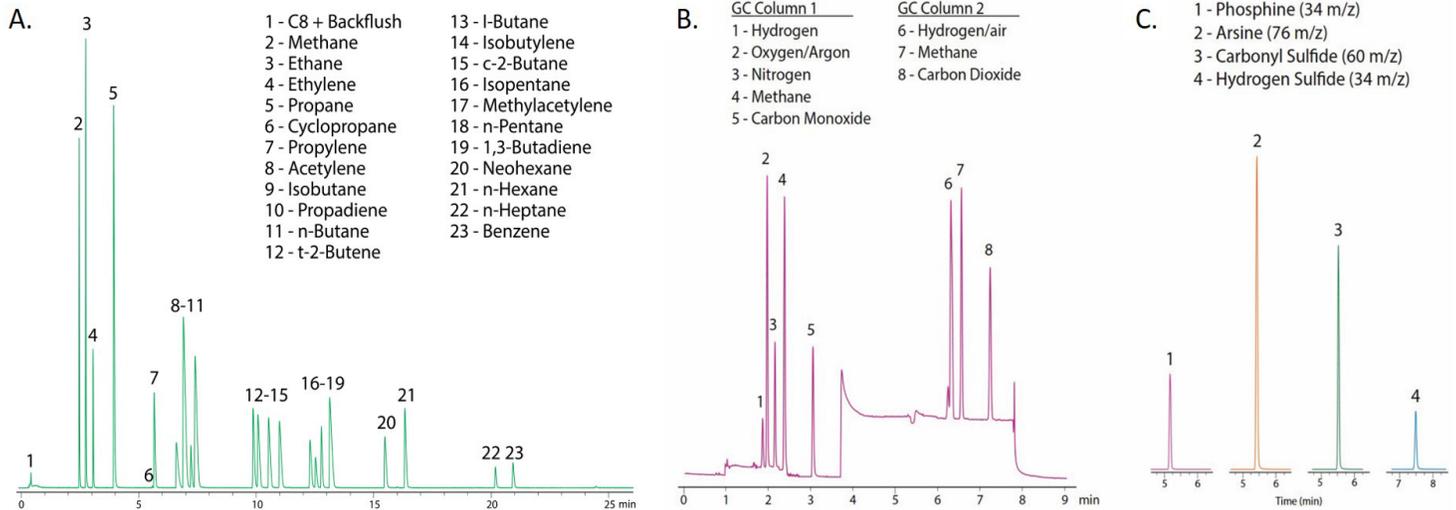
The Agilent 5977B MSD is the latest in the series of most trusted Single Quadrupole MS detectors. The High Efficiency Source (HES) and InertPlus Extractor EI Source maximize the number of ions that are created and transferred out of the source body and into the single quadrupole analyzer.

VGA analyzers use vacuum ultraviolet wavelengths of light to create unique spectral signatures that result in unambiguous compound identification and quantitative analysis across a wide spectrum of complex applications.

ECLIPSE

Bringing the resolving power of capillary chromatography online.





Examples of Eclipse data: A combination of FID (A), PDHID (B), and Mass Spectrometer detectors (C) received analytes resolved on 6 capillary columns. This **single analyzer** is able to deliver sensitive and unambiguous quantitation of the broadest range of analytes of any PGC. Analytes once restricted to lab analysis (CO, CO₂, arsine, phosphine, sulfides) can now be monitored online alongside hydrocarbons and oxygenates. Eclipse PGCs are designed for Class 1/Division 2 and ATEX Zone 2 hazardous locations and are revolutionizing the field of process gas chromatography.

ECLIPSE TECHNOLOGY

Key features enabling lab-quality capillary column chromatography on a process GC

- *Online MSD, VUV, PDHID, TCD, and FID*
- *Capacity for up to 8 capillary columns*
- *Full electronic pressure programming*
- *Two programmable micro-convection ovens*
- *Two isothermal ovens*
- *Local 19" touchscreen interface*
- *MODBUS RTU, TCP, and REST automation*
- *Wasson-ECE's new chromatography data system*
- *Sample systems with multiplexing for up to 16 sample streams*
- *Designed for Class I/Div.2 and ATEX Zone 2 hazardous locations*

The **Wasson-ECE Performance Guarantee**: Wasson-ECE's performance guarantee surpasses industry standards for gas chromatography. We work directly with customers to design a custom solution to meet specific needs. In addition to guaranteeing the hardware, we provide a one-year guarantee on the analytical performance of the Eclipse system based on our customers' actual samples - rather than just a standard. **Engineered Solutions. Guaranteed Results.**



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