

**GC-4200**

Gas Chromatograph

The GC-4200 gas chromatography system is the latest generation of gas chromatographs developed by East & West Analytical Instruments, Inc. This product is equipped with an advanced EPC, air path control system, high-precision temperature control system, and a 10-inch touch screen with networked functionality. It is characterized by high stability, high sensitivity, and advanced intelligence. In response to the digital shift in analytical instruments, EWAI partnered with Taasdesign to elevate its GC-4200 gas chromatograph. Won the German Design Award Industrial Category "Excellent Product Design Award"

Features

- The operating system developed using the Linux kernel.
- Instrument monitoring and control can be achieved through PC, tablet, and mobile phone.
- The 10-inch color touch screen provides an intuitive interface, ensuring ease of operation and excellent user interaction allowing you to update the active method, perform maintenance routines, and check the GC instrument status.
- The automatic liquid sampler is compatible with twin tower automatic sampler.
- The column oven feature a double rear door design and a high-precision temperature control system, enabling rapid and accurate temperature adjustments. Temperature control precision meets international advanced standards.
- The new electronic gas circuit control system, equipped with high-precision electronic pneumatic control (EPC), offers comprehensive EPC control for the entire gas circuit.
- Communicates with the computer via a network port, ensuring greater stability and reliability.

Features of the Data Processing System (Software)

- The software complies with GMP regulatory requirements for user rights management and data audit tracking functions, offering multi-user with five-level permission access and support for electronic signatures.
- The instrument's temperature and gas flow can be monitored and controlled in real-time, enabling comprehensive human-machine interaction through full parameter control and settings.
- Built-in operation programs for various liquid automatic samplers and valve drivers, compatible with different sample analysis requirements.
- The software features advanced data calculation and comparison functions, including normalization methods for peak area (peak height), corrected normalization methods, internal standard methods, external standard methods, combined internal and external standard curve methods, double logarithmic curves, and peak area square root calculations.
- Special applications include exporting report data to Word or Excel format files, calculation functions for original sample results, real-time sample blank deduction, and synchronized start functions for the sampler and instrument.

Application instances

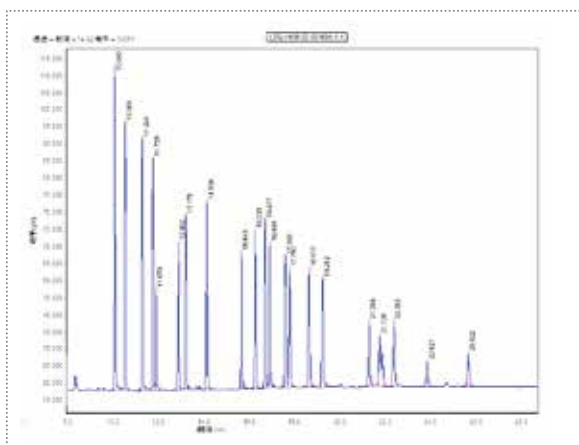


Figure 1 ECD analysis of 22 organochlorine pesticides

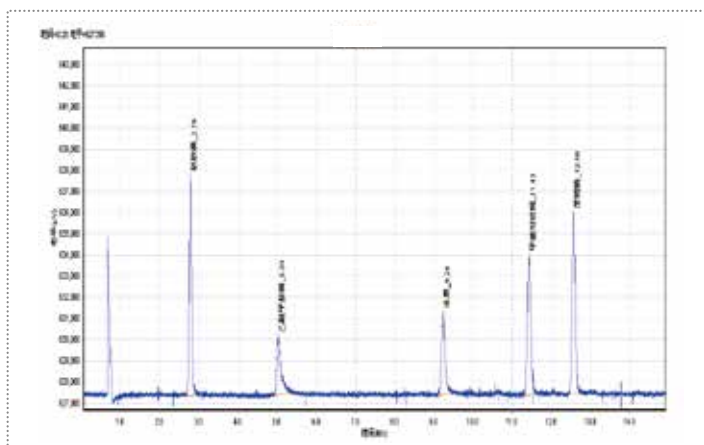


Figure 2 Analysis of organophosphorus pesticide residues using an FPD detector

EWAI

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