Key Features

- Specifically designed for organic acid analysis
- Integrated tabletop systems with automatic injection system
- Partial loop injection
- Automatic calibration
- Uses Ion exclusion mode (+ reversed phase mode) column
- Highly selective detection with post column method
- Full control by PC
- Powerful data analysis software

Specifications

Conductivity Measuring Range	up to 20000 µS/cm at 20 - 1 Hz, sample frequency, Auto zero function for the entire measuring range, Noise: 0.1 nS/cm
Suppression	Two electrolytic Suppressor
Column Oven Temperature	30 °C -90 °C
Pump	Isocratic Pump (analytical, non-metal - Peek version), Pressure Range: 40-0 MPa (6000-0 PSI), Flowrate: 10 – 0.001 ml/min
Degasser	Integrated -1channel vacuum degasser
Injection System	Automatic dual needle design to avoid system blockage with wash program and Programmable Injection Volume: 999.9 - 0.1 µ in increments of 0.1 µl, Sample Capacity: 120 samples (1.5 ml), Sample Loop: 100 µl, Carry Over: < 0.05 %
Including	• IC column for determination of anions • Anion guard column • IC column for determination of organic acid • Organic acid guard column • Clarity Chromatography Software

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Innovative Scientific Solution

Organic Acid Analyser

Methods: ASTM D5542, ASTM D1982, ISO 10304

Organic Acid Analyzer based on an Ion Chromatography (IC) system is a sophisticated analytical tool used to detect and quantify organic acids. IC has been employed for ion analyses in solution samples obtained from various fields, such as semiconductor cleaning solutions, bodily fluids, and food, as well as for water quality control of river water or drinking water. The analyte ions in IC are mainly the common ions (e.g., Cl–, NO3–) found in environmental water or drinking water samples, but have also extended to weak acids, such as carboxylic acids, silicate and fluoride ions, owing to the wider range of targeted samples. However, the low resolution among weak acidic anions has been an important drawback of conventional IC and the instrumentation for it has undergone significant changes.

EDX 2500S

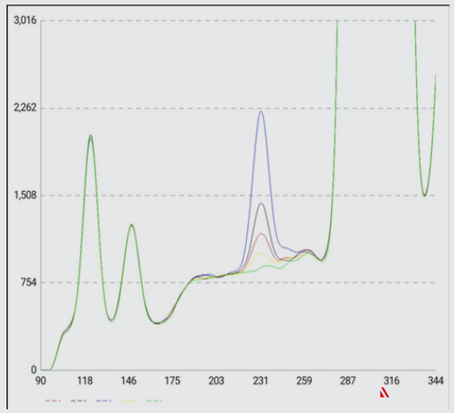
Multi-Element Analyzer Using EDXRF Technology

The EDXRF2500-S delivers the latest innovation in field measurement of sulfur and chlorine in petroleum-based products.

The EDXRF2500-S is based on the latest advances in Energy Dispersive X-ray Fluorescence (EDXRF) technology. It utilizes a proprietary X-ray optical technology and produces a monochromatic X-ray source. This approach is critical for a user to achieve an ultra-low noise background for the best limits of detection for sulfur and chlorine. This provides excellent performance at high concentration (multiple wt.% levels), simultaneous multi-element analysis and applicability over a wide range of sample types, and excellent low ppm capabilities.

The versatile EDX 2500S can be used in a wide range of applications for sulfur and chlorine in the range of 1 ppm99.9- wt. % levels. It automatically corrects for interferences coming from matrix differences or interfering elements. The EDX 2500S performance is well established, as it is compliant with ASTM and ISO International Sulfur and metals Determination standards:

ASTM D7220 ASTM D7751 ASTM D4294 EN ISO 13032 ASTM D 6481 EN ISO 20847



Comparison spectrum of the EDX 2500S for concentration of 0 ppm, 5 ppm, 10 ppm, 20 ppm, and 50 ppm of sulfur

Key Features

- Simultaneous elemental analysis.
- Multi-curve analysis and automatic recognition function, one-click testing for easily using.
- Dynamic Analysis Range:
  All elements: 0.1 mg/kg – 99.9 wt%
- Sample type: liquids, Powders
- No purge or combustion gases required.
- User defined measurement times (200 - 60 seconds.)
- Single digit ppm repeatability achieved on low level samples.
- Multiple Calibration Curve capability with easy storage.
- Auxiliary module: 4G module, WIFI module, Bluetooth module, GPS module.
- Multiple external outputs: Bluetooth and USB interfaces are available for wireless
- connection to a portable Bluetooth printer

Designed for Laboratory Testing, Vehicle Testing & Outdoor Testing

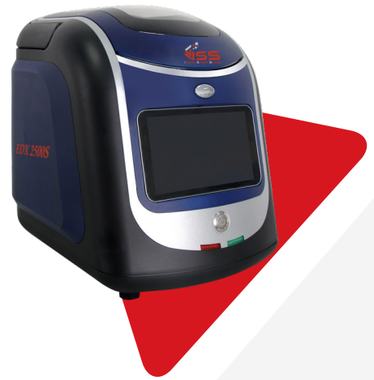
The EDX 2500S is a compact and lightweight analyzer that can readily measure sulfur and chlorine content in petroleum products down to ppm levels.

The optical path is under atmosphere, so no vacuum or helium or nitrogen purges are required.

The EDX 2500S requires only a stable source of electrical power wide voltage 110V ~ 220V universal adapter. No other utilities or gases are required for this nondestructive and non-combustion based EDXRF technique.

The Instrument features a Built-in PDA that is easy to use with the professional software for easy operation.

Sample preparation and handling are made easy by the use of Mylar® film covered disposable plastic sample cups. This allows the instrument to be used easily by a trained laboratory technician, not a scientist.



A powerful on-board computer enables a full line-up of data handling, printing, and processing features. These greatly aid in the implementation of data transfer to assure compliance with good laboratory practice requirements.

To ensure operator safety, the instrument has a Power indicator. Green power indicator is on when the machine is on and red indicator in the is on when the machine is testing step.

The EDX 2500S comes with a multi-function instrument protection case, convenient for carrying

Easy to use Software

- An intuitive touch screen based, user interface.
- Creation of an unlimited number of calibration curves.
- Spectral display of final analysis.
- On screen diagnostics for all operating parameters.
- Unlimited data storage.
- Critical calibration curve information and plot displayed.
- Easy to view results and all statistical information.