MONITOR AND MEASURE GASES
THAT CONTRIBUTE TO CLIMATE CHANGE

The Measure of Confidence

Agilent Greenhouse Gas Analyzers

Fossil fuel consumption increases the concentration of Greenhouse Gases (GHGs) – such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O) – in the Earth's atmosphere. These gases trap heat, thereby affecting our planet's temperature.

To help fight climate change caused by increased concentrations of atmospheric GHGs, regulatory institutions – such as the EPA and CEN – have implemented "Green Initiatives" that demand continuous measurement and inventory.

Reliably characterize the composition of GHG emissions immediately after installation

Based on Agilent 7890B GC system, **Agilent GHG Analyzers** are factory-configured and chemically tested to help you track GHG emissions. Available in both standard and custom configurations, these analyzers conform to regulatory norms to facilitate your monitoring requirements.

Agilent Greenhouse Gas Analyzers include innovative technology and reflect our stringent quality control process. Systems include:

Factory

- System setup and leak testing
- Instrument checkout
- Installation of appropriate columns
- Factory-run checkout method using application checkout mix

Delivery

- Instrument manual for running the method
- CD-ROM with method parameters and checkout data files for easy out-of-the-box operation
- Application related consumables included – no separate ordering required
- Easy consumables re-ordering information

Installation

- Duplicate factory checkout with checkout sample – onsite by factory-trained support engineer
- Optional application startup assistance

Agilent Technologies

Perform simultaneous analysis of Greenhouse Gas emission composition using these built-in features:

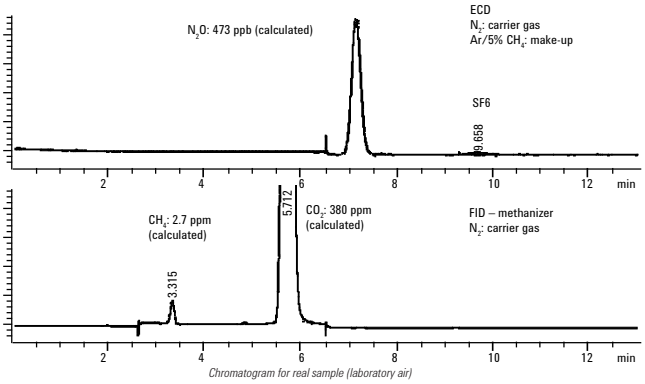
- **Pre-configuration and chemical testing** ensures optimal performance for sub-ppm to %-level GHG analysis.
- **Specific detectors** ensure trace-level detection of N_2O.
- **Optional third TCD detector** expands the range of concentration for detecting CO_2.
- **Optimized Retention Time Locked (RTL) acquisition method, Application Note, and quick-start guide** facilitate rapid deployment.
- **Column, consumables, calibration/checkout samples, and analytical GHG method** reduce the time needed for start-up and chromatographic performance verification.

Ordering information:

Part Number	Configured per	Target Analytes
G3445 Series #561	Greenhouse Gas Analyzer (CO_2 to 0.4 ppm to 20%)	CH_4, N_2O, CO_2
G3445 Series #563	Greenhouse Gas Analyzer (CO_2 to 0.4 ppm to 0.20%)	CH_4, N_2O, CO_2
G3445 Series #562	Greenhouse Gas Analyzer (CO_2 to 50 ppm to 0.20%)	CH_4, N_2O, CO_2

Boost your GHG monitoring productivity and produce reproducible data... day in and day out

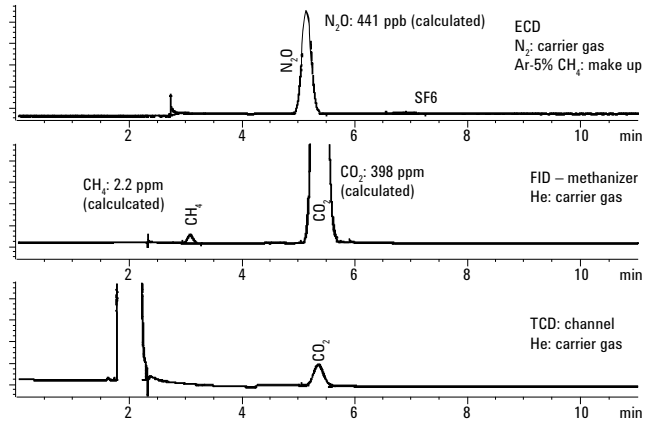
Greenhouse Gas Chromatography – Three Detector Channels (G3445 Series #561)



Chromatogram for real sample (laboratory air)

Micro-ECD sensitivity enables N_2O detection at PPB levels. An easy-to-use union based on Capillary Flow Technology connects the valves and Micro-ECD to improve chromatographic performance. You can easily expand this configuration to include SF_6 determination.

Greenhouse Gas Chromatography – Three Detector Channels (G3445 Series #562)



Two separate channels with three detectors facilitate method setup, promote faster results, and reduce critical nature timing for valve switching. A third TCD expands the concentration range for CO_2 determination.

Put your applications on the *fast track*

Contact your local Agilent Representative or Agilent Authorized Distributor at **agilent.com/chem/contactus**

Or call **800-227-9770** (in the U.S. or Canada)

Visit **agilent.com/chem/appkits** for a description of available Analyzers and Application Kits

Printed in U.S.A., September 25, 2014
5991-5041EN

Agilent Technologies