

# 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<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O) – 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<sub>2</sub>O.
- **Optional third TCD detector** expands the range of concentration for detecting CO<sub>2</sub>.
- **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 <sub>2</sub> to 0.4 ppm to 20%)	CH <sub>4</sub> , N <sub>2</sub> O, CO <sub>2</sub>
G3445 Series #563	Greenhouse Gas Analyzer (CO <sub>2</sub> to 0.4 ppm to 0.20%)	CH <sub>4</sub> , N <sub>2</sub> O, CO <sub>2</sub>
G3445 Series #562	Greenhouse Gas Analyzer (CO <sub>2</sub> to 50 ppm to 0.20%)	CH <sub>4</sub> , N <sub>2</sub> O, CO <sub>2</sub>

### Put your applications on the fast track

Contact your local Agilent Representative or Agilent Authorized Distributor at [agilent.com/chem/contactus](http://agilent.com/chem/contactus)

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

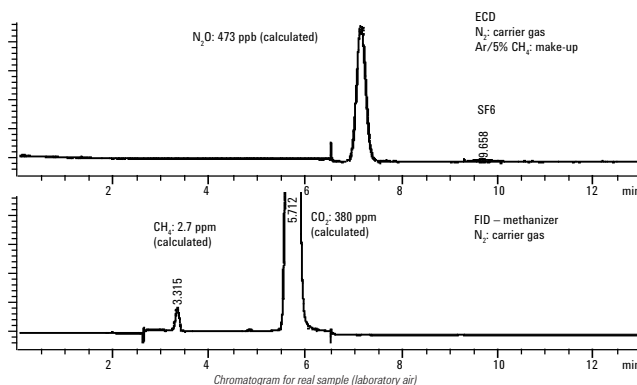
Visit [agilent.com/chem/appkits](http://agilent.com/chem/appkits) for a description of available Analyzers and Application Kits

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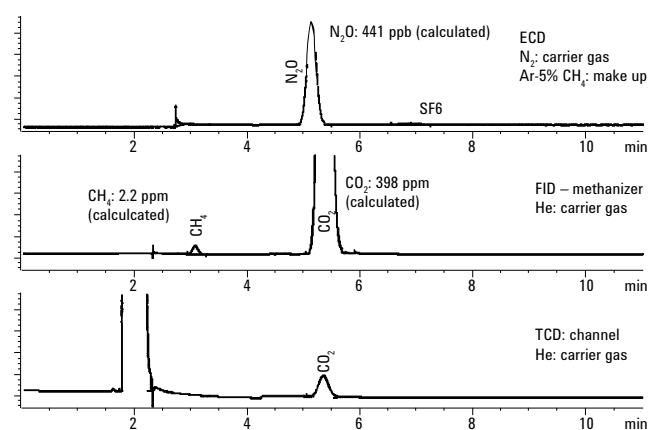
## Boost your GHG monitoring productivity and produce reproducible data... day in and day out

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



**Micro-ECD sensitivity enables N<sub>2</sub>O 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<sub>6</sub> 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<sub>2</sub> determination.