

# Application Data Sheet

## No.89

## System Gas Chromatograph

### Trace Hydrocarbons in Butene-1 Analysis System Nexis GC-2030THC GC-2014THC

This instrument is designed for determining trace hydrocarbons within the composition range shown in the specification sheet. A total of 1 valve and 1 column are used in this GC system. The sample is loaded into one sample loop for determination.

The valve timing then allows the trace hydrocarbons to be separated individually by a PLOT-Al<sub>2</sub>O<sub>3</sub>/KCl column and to be detected by FID. The system includes LabSolutions workstation software and BTU and Specific Gravity calculation software.

#### Analyzer Information

##### System Configuration:

One valve / one capillary column with one FID detector

##### Sample Information:

C1-C5, VA, EA, 3-Methyl-1,2-Butadiene

##### Concentration Range:

No.	Name of Compound	Concentration Range		Detector
		Low Conc.	High Conc.	
1	CH <sub>4</sub>	1ppm	10%	FID
2	C <sub>2</sub> H <sub>6</sub>	1ppm	10%	FID
3	C <sub>2</sub> H <sub>4</sub>	1ppm	10%	FID
4	C <sub>2</sub> H <sub>2</sub>	1ppm	10%	FID
5	C <sub>3</sub> H <sub>8</sub>	5ppm	50ppm	FID
6	C <sub>3</sub> H <sub>6</sub>	5ppm	50ppm	FID
7	i-C <sub>4</sub> H <sub>10</sub>	100ppm	7000ppm	FID
8	n-C <sub>4</sub> H <sub>10</sub>	100ppm	7000ppm	FID
9	1,3-C <sub>4</sub> H <sub>6</sub>	2ppm	10ppm	FID
10	1,3-C <sub>5</sub> H <sub>8</sub>	1ppm	10%	FID
11	VA	1ppm	10%	FID
12	EA	1ppm	10%	FID
13	1,2-C <sub>5</sub> H <sub>8</sub>	1ppm	10%	FID
14	3-Methyl-1,2-Butadiene	1ppm	10%	FID

Detection limits may vary depending on the sample. Please contact us for more consultation.

#### System Features

- Versatile software easy GC system operation
- One FID channel
- Good repeatability

Typical Chromatograms

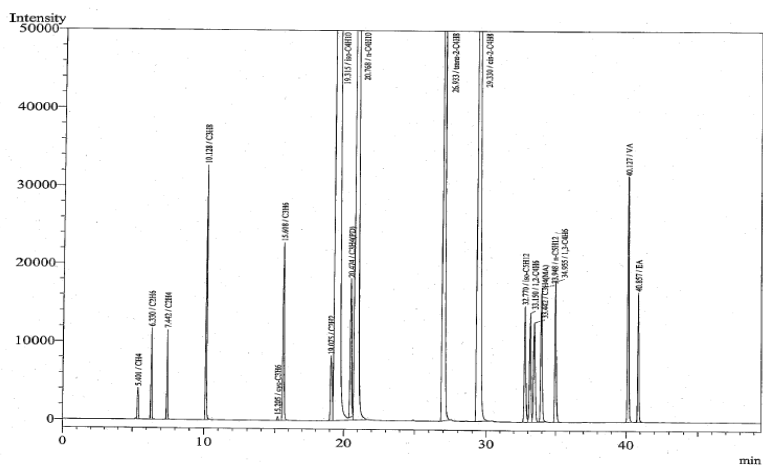


Fig. Chromatogram of FID

