

# Application Data Sheet

## No.47

### **System Gas Chromatograph**

Hydrocarbon Analysis with Vaporizer Device for LPG Nexis GC-2030LPGHC1
GC-2014LPGHC1

This method is for determination of the hydrocarbons in LPG. LPG is vaporized by an on-line vaporizer device. After vaporization of hydrocarbons, a gaseous sample moves to a fixed sample loop. The sample is measured by this loop and transferred to a split/splitless injector and separated by an Alumina capillary column and detected by FID.

The analysis time is approximately 30 minutes. The system includes LabSolutions GC workstation software.

#### **Analyzer Information**

#### **System Configuration:**

One valve / capillary column with FID detector

#### **Sample Information:**

Liquid permanent gas C<sub>1</sub>-C<sub>6</sub>

#### **Concentration Range:**

No.	Name of Compound	<b>Concentration Range</b>	
		Low Conc.	High Conc.
1	CH4	0.001%	10.0%
2	C2H4	0.001%	10.0%
3	C2H6	0.001%	10.0%
4	C2H2	0.001%	10.0%
5	C3H8	0.001%	5.0%
6	С3Н6	0.001%	5.0%
7	i-C4H10	0.001%	1.0%
8	n-C4H10	0.001%	1.0%
9	Propadiene	0.001%	1.0%
10	Other C4 and C5	0.001%	0.5%
17	C3H4	0.001%	0.5%
18	C6H14	0.001%	0.5%

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

#### **System Features**

- •15 minutes analysis for hydrocarbons analysis can be carried out
- ·Single FID channel
- ·LPG is vaporized by on-line vaporizer device

#### **Typical Chromatograms**

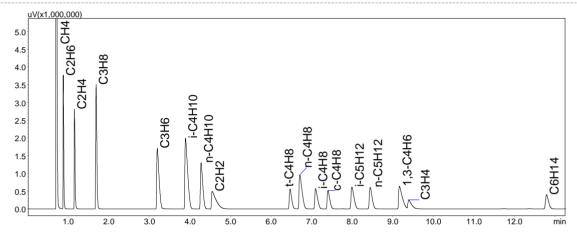


Fig. Chromatogram of FID



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