

Application Data Sheet

No. 186

System Gas Chromatograph

Trace Hydrocarbons in LPG Analysis Nexis GC-2030HC4 GC-2014HC4

This system is for determining C5 or lower hydrocarbon impurities in LPG. LPG sample is vaporized through liquid sampling valve. Components are separated by alumina PLOT column.

Analyzer Information

System Configuration:

One valve and one SPL injector / one capillary column / one FID

Sample Information:

C5 or lower hydrocarbon impurities in LPG

Methods met:

UOP-899

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	Ethane	2 ppm	3,000 ppm
2	Methane	2 ppm	3,000 ppm
3	Ethylene	2 ppm	3,000 ppm
4	Propane	2 ppm	3,000 ppm
5	Cyclopropane	2 ppm	3,000 ppm
6	Propylene	2 ppm	3,000 ppm
7	Isobutane	2 ppm	3,000 ppm
8	n-Butane	2 ppm	3,000 ppm
9	Propadiene	2 ppm	3,000 ppm
10	Acetylene	2 ppm	3,000 ppm
11	trans-2-Butene	2 ppm	3,000 ppm
12	1-Butene	2 ppm	3,000 ppm
13	Neopentane	2 ppm	3,000 ppm
14	Isobutylene	2 ppm	3,000 ppm
15	cis-2-Butene	2 ppm	3,000 ppm
16	Isopentane	2 ppm	3,000 ppm
17	n-Pentane	2 ppm	3,000 ppm
18	1,2-Butadiene	2 ppm	3,000 ppm
19	1,3-Butadiene	2 ppm	3,000 ppm
20	Propyne	2 ppm	3,000 ppm
21	Vinyl Acetylene	2 ppm	3,000 ppm
22	n-Hexane	2 ppm	3,000 ppm
23	1-Butyne	2 ppm	3,000 ppm

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

System Features

- Single FID channel
- Good repeatability
- Impurities in hydrogen also can be analyzed

Typical Chromatograms

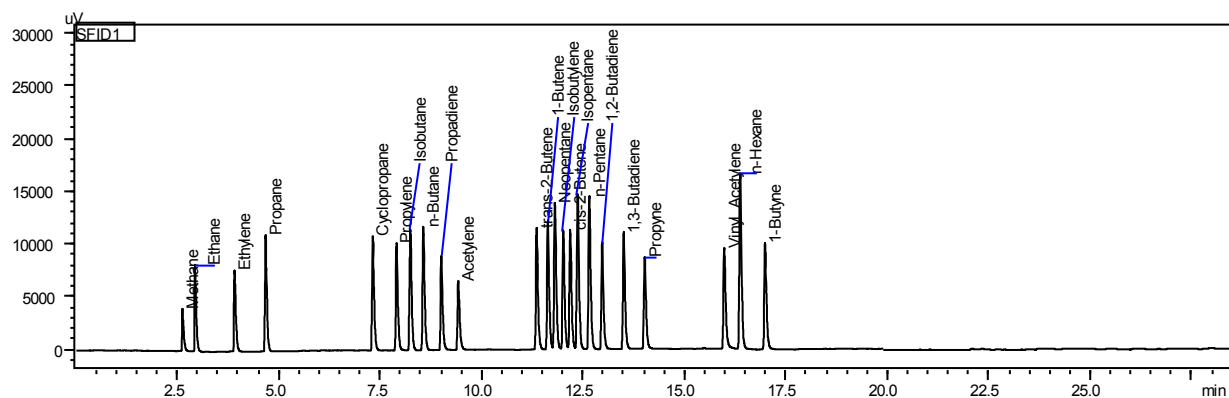


Fig. 1 Chromatogram of FID