

# Application Data Sheet

## No. 177

### System Gas Chromatograph

C6 and Lower Boiling Hydrocarbons in Olefin Free Naphthas  
Nexis GC-2030LBH1  
GC-2014LBH1

This method is for determining the composition of olefin free Naphtha as described in below compound table. It requires the use of a dedicated gas chromatographic system which is configured with an automatic liquid injector.

#### Analyzer Information

##### System Configuration:

One SPL injector / one capillary column / one FID detector

##### Sample Information:

Determining benzene, individual hexanes and lower boiling hydrocarbons in olefin free naphthas having a final boiling point of 260° C or lower.

##### Methods met:

UOP-551

#### Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	Propane	100 ppmwt	10,000 ppmwt
2	Isobutane	100 ppmwt	10,000 ppmwt
3	n-Butane	100 ppmwt	10,000 ppmwt
4	Isopentane	100 ppmwt	50 %wt
5	n-Pentane	100 ppmwt	40 %wt
6	2,2-Dimethylbutane	100 ppmwt	10 %wt
7	Cyclopentane	100 ppmwt	10,000 ppmwt
8	2,3-Dimethylbutane	100 ppmwt	10 %wt
9	2-Methylpentane	100 ppmwt	40 %wt
10	3-Methylpentane	100 ppmwt </td <td>30 %wt</td>	30 %wt
11	n-Hexane	100 ppmwt	20 %wt
12	Methylcyclopentane	100 ppmwt	10 %wt
13	Benzene	100 ppmwt	10 %wt
14	Cyclohexane	100 ppmwt	10,000 ppmwt

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

#### System Features

- Single FID channel
- Good repeatability

#### Typical Chromatograms

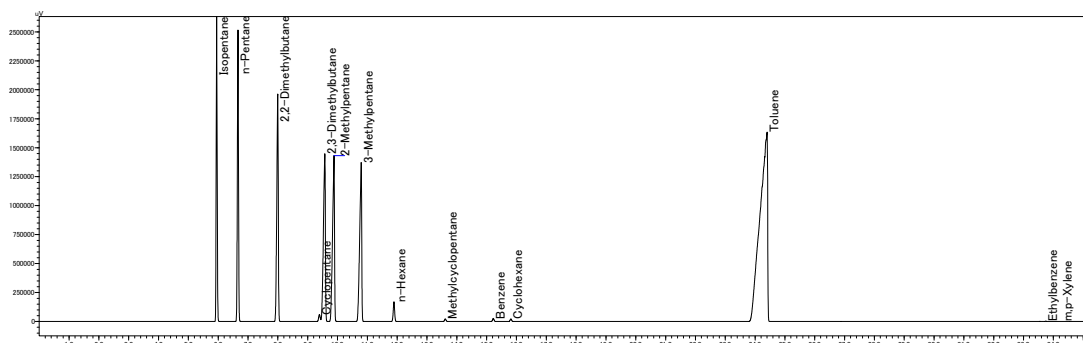


Fig. 1 Chromatogram of FID

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