

Application Data Sheet

No.9

System Gas Chromatograph

Sulfur Analyzer Nexis GC-2030PFPD1 GC-2014PFPD1

This method is for determining the sulfide compounds in air using a pulsed flame photometric detector (PFPD) and capillary column. Standard sulfur gas or a permeation source can be used to make a calibration curve. This GC uses one valve and one capillary column. The sample is introduced into the sample loop for determination. Sample lines, including injection port, are inert in order to avoid absorption of the sulfur compounds. The system includes LabSolutions GC workstation software.

Analyzer Information

System Configuration:

One valve / Capillary Inlet / Capillary column / PFPD detector

Sample Information:

Sulfur compounds in natural gas or gaseous fuels, such as H₂S, COS, SO₂, mercaptans, aromatic sulfur compounds and sulfides.

Methods met:

ASTM-D6228

Concentration Range:

No.	Name of Compound	Concentration Range	
		Low Conc.	High Conc.
1	H ₂ S	0.05ppmV	100ppmV
2	COS	0.05ppmV	100ppmV
3	MeSH	0.05ppmV	100ppmV
4	EtSH	0.05ppmV	100ppmV
5	DMS	0.05ppmV	100ppmV
6	CS ₂	0.05ppmV	100ppmV
7	PrSH	0.05ppmV	100ppmV
8	BuSH	0.05ppmV	100ppmV

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

System Features

- Sulfur analysis in refinery gas, natural gas, process gas and gaseous fuels
- Standard sulfur gas and permeation source can be used for making calibration curve
- Sample lines including injection port inert in order to avoid absorption
- High selectivity for sulfur

Typical Chromatograms

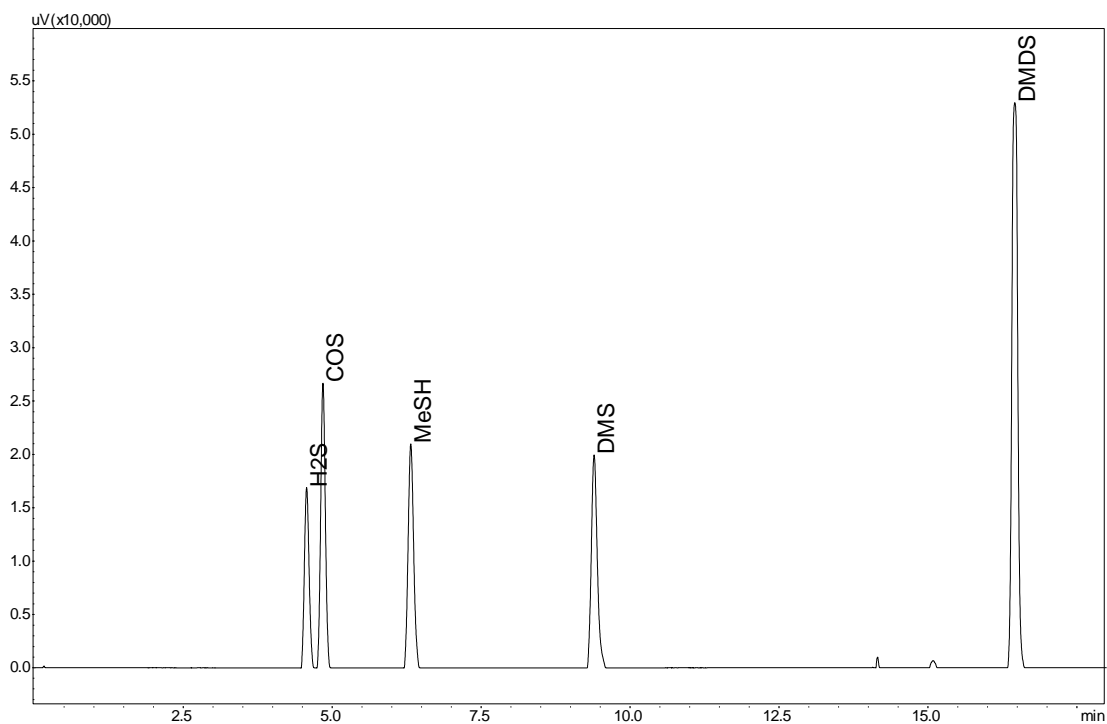


Fig. 1 Chromatogram of PFPD