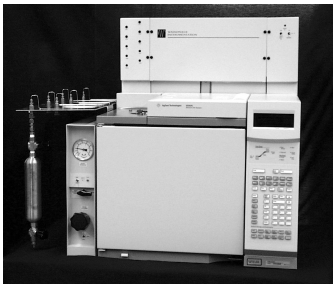
Application 283-00

Agilent Refinery Gas Analyzer

Hydrocarbons in Extended Refinery Gas and Cracked Gas Analysis

Technical Overview



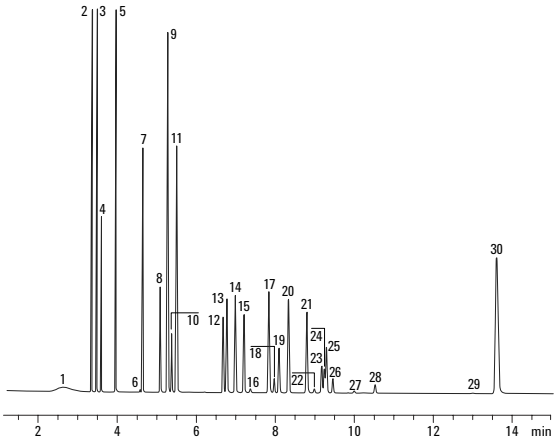
Application Highlights

- A Flame Ionization Detector (FID) to detect the C1 through C7 paraffins and olefins to a lower detection limit of 20 ppm, except for trace peaks eluting on the tail of a major component.
- The entire analysis has a run time of less than 15 minutes

Optional Configurations

- Liquid sample valves for the injection of pressurized liquid samples.
- Refinery gas analysis with trace sulfurs by FPD or SCD
- Additional boiling point column for the analysis of heavy hydrocarbons (C1–C30)
- Standard analysis with the addition of trace CO by methanizer
- Custom analyzer for performing ASTM D2163, ASTM D2712, and ISO 7941
- High temperature injection for heavy fractions
- High temperature reactor effluent with percent level water
- TCD/TCD/MSD for the analysis of reactor effluent gases

1	C7+ Backflush	11	n-Butane	21	3-Methyl-1-Butene
2	Methane	12	t-2-Butane	22	t-2-Pentene
3	Ethane	13	1-Butane	23	2-Methyl-2-Butene
4	Ethylene	14	Isobutene	24	1-Pentene
5	Propane	15	c-2-Butane	25	2-Methyl-1-Butene
6	Cyclopropane	16	Neopentane	26	c-2-Pentene
7	Propylene	17	Isopentane	27	Neohexane
8	Acetylene	18	Methyl acetylene	28	Hexane
9	Isobutane	19	Isobutane	29	Heptane
10	Propadiene	20	1,3-Butadiene	30	Benzene



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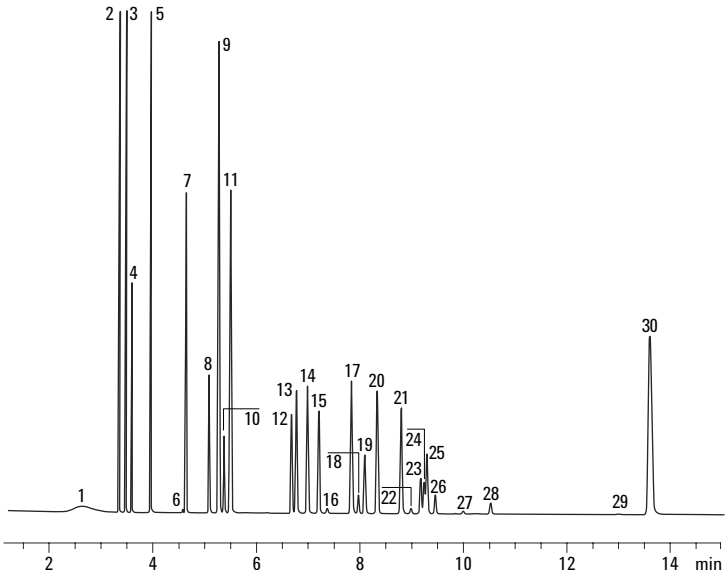

FID output from the Agilent Refinery Gas Analyzer.

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