

Analysis of tert-Butyl Mercaptan in Natural Gas on a CP-Sil 13 CB Using the Agilent 490 Micro GC

Application Note

Micro Gas Chromatography, Hydrocarbon processing, Natural Gas Analysis

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Introduction

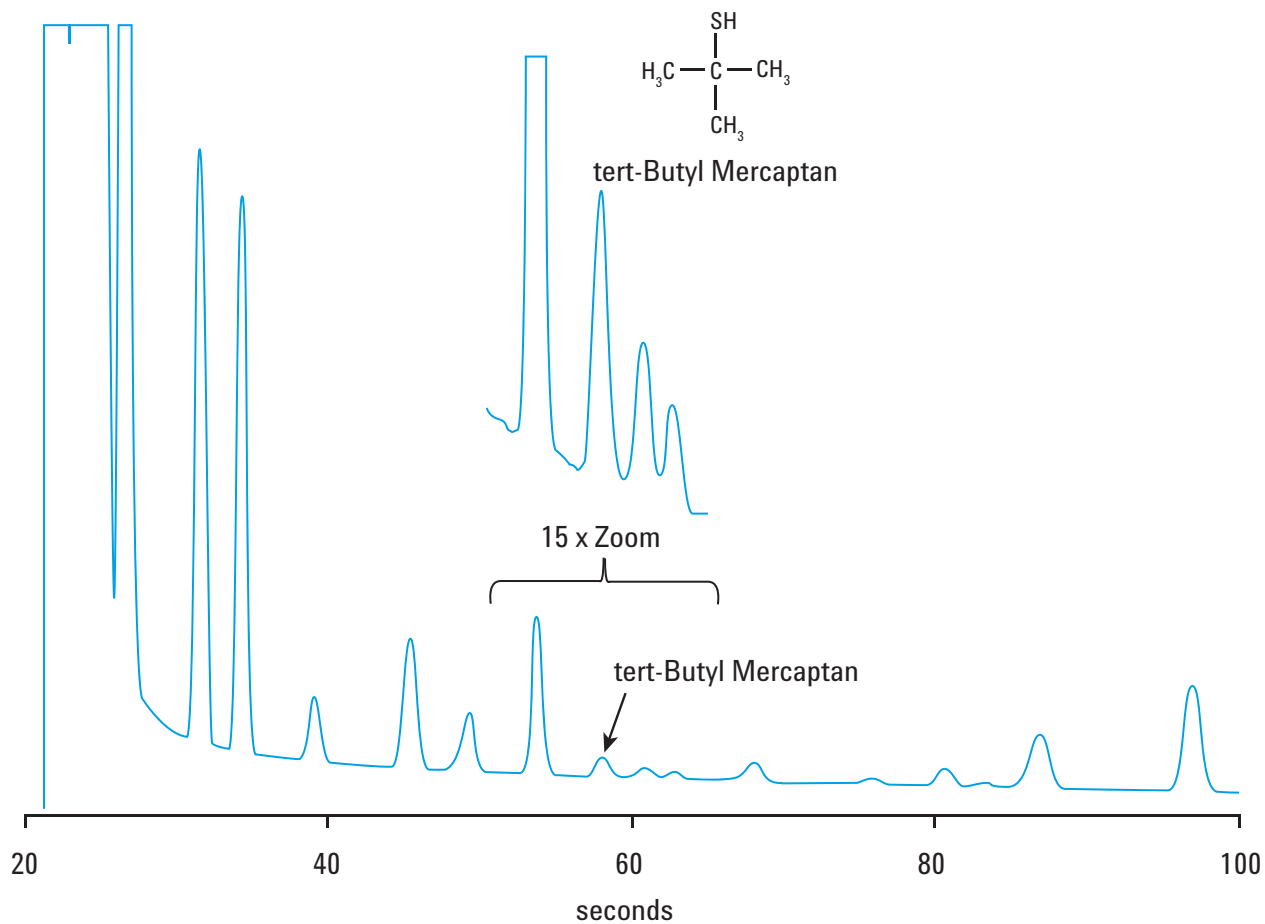
This application note shows the analysis of tertiary-butyl mercaptan (TBM) in a natural gas matrix using the Agilent 490 Micro GC. The dimensions and instrument conditions for the column channel used in this application note, a CP-Sil 13 CB, clearly shows the separation of TBM from the other compounds in the natural gas sample.

The advantage of the Agilent 490 Micro GC, in combination with the CP-Sil 13 CB column channel, is the ease of use and the speed of analysis. Tertiary-butyl mercaptan elutes just before 60 seconds and the total analysis time is only 100 seconds.

The Agilent 490 Micro GC is a rugged, compact and portable lab-quality gas analysis platform. When the composition of gas mixtures is critical, count on this fifth generation micro gas chromatography.



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Instrumentation

| | |
|--------------------|-------------------------------|
| Instrument | Agilent 490 Micro GC (G3581A) |
| Column channel | CP-Sil 13 CB for TBM |
| Column temperature | 40°C |
| Carrier gas | Helium, 250 kPa |
| Injection time | 255 msec |

Sample information

| | |
|----------------------------|--------|
| Natural gas | Matrix |
| Tert-butyl mercaptan (TBM) | 4 ppm |

For More Information

These data represent typical results. For more information on our products and services, visit our Web site at www.agilent.com.

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