

# Analysis of BTEX in Air using the Agilent 490 Micro GC

## **Application Note**

Micro Gas Chromatography, Environmental Analysis

## Authors

Pascal Vattaire, Agilent Technologies, Inc. Les Ulis France

Remko van Loon, Agilent Technologies, Inc. Middelburg The Netherlands



### Introduction

Monocyclic aromatic hydrocarbons are a class of chemicals with a six membered ring structure and alternating double and single bonds between the carbon atoms. These compounds are considered to be toxic and therefore of interest for analysis.

This application note shows the analysis of benzene, toluene, ethylbenzene, and the xylenes in an air matrix using the Agilent 490 Micro GC. To separate all xylenes, including meta- and para-xylene, a special channel equipped with a 10-meter CP-Wax 52 CB column is used. The standard 4-meter CP-Wax 52 CB column channel can be used for the analysis of BTEX as well, however p- and m-xylene will co elute and reported as a single result.

The advantage of the 490 Micro GC, in combination with the CP-WAX 52 CB column channel, is the ease-of-use and the speed of analysis. The analysis of the BTEX compounds is performed in less than 150 seconds. The Agilent 490 Micro GC delivers labquality separations in an ultra-compact, portable instrument. You get the results you need in seconds - for faster, better decision making and confident process control.



#### Instrumentation

#### **Sample information**



#### **For More Information**

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#### www.agilent.com/chem/microgc

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