

# Measuring Bisphenol A (BPA)

Applied Analytics Application Note No. AN-042



## Application Summary

Analyte: **Bisphenol A (BPA)**

Detector: **OMA Process Analyzer**

Typical Measurement Ranges: **0-1%**

## Introduction

Since the 1950's, Bisphenol A (BPA) has been used as a precursor for epoxy resins and polycarbonate plastic. Many consumer items (e.g. bottles) are made from polycarbonate due to its strength and transparency, thus motivating large scale BPA production worldwide.

More recently, BPA has come under heavy scrutiny for various potential health risks, such as its effect of mimicking or inhibiting human hormones. While the health effects are under continued investigation, many jurisdictions worldwide have placed legal limits on human exposure as well as release of BPA to the environment.

The OMA Bisphenol A Analyzer is an easy, reliable way to measure the concentration of BPA in a process stream. Using a high-resolution UV-Vis spectrophotometer, the OMA monitors the absorbance curve of BPA in real time for an extremely fast response analysis.

Applications like water and methylene chloride are highly suited to the OMA because these backgrounds are transparent to the instrument's UV wavelength domain.

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## Example Installation

The images below depict an OMA (model OMA-406 rackmount) measuring 0-0.5% BPA in a methylene chloride stream. This instrument replaced a problematic existing analyzer at a site in Thailand.



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## Further Reading

Subject	Location
OMA-300 Process Analyzer Data sheet	<a href="http://www.a-a-inc.com/documents/AA_DS001A_OMA300.pdf">http://www.a-a-inc.com/documents/AA_DS001A_OMA300.pdf</a>
Advantage of Collateral Data Technical Note	<a href="http://www.a-a-inc.com/documents/AA_TN-202_CollateralData.pdf">http://www.a-a-inc.com/documents/AA_TN-202_CollateralData.pdf</a>



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