



## **PCBs**

# Analysis of PCBs using comprehensive GC x GC

## Application Note

Environmental

### **Authors**

Agilent Technologies, Inc.

### **Introduction**

Two Agilent GC columns are used in the analysis of polychlorinated biphenyls; a PDMS phase equivalent to Agilent VF-1ms, and an Agilent VF-23ms.

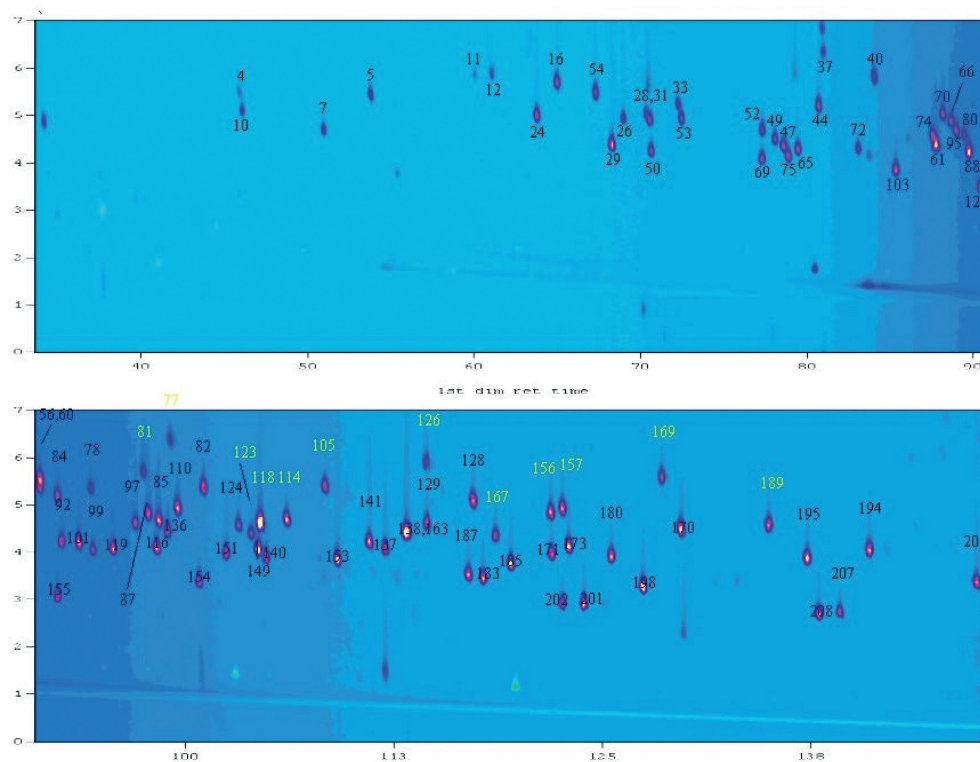


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## Conditions

Technique : GC x GC  
Column 1 : 100% methyl PDMS, Agilent equivalent VF-1 ms  
0.25 mm x 30 m (df = 0.25  $\mu$ m) (Part no. CP8912)  
Column 2 : Agilent VF-23ms, 0.10 mm x 1 m (df= 0.1  $\mu$ m) (Part no. CP8819) as 10m column  
Temperature 1 : 90 °C, (2 min), 30 °C/min  $\rightarrow$  170 °C, 5 min, 1.5 °C/min  $\rightarrow$  290 °C  
Temperature 2 : 90 °C, (2 min), 30 °C/min  $\rightarrow$  170 °C, 5 min, 1.5 °C/min  $\rightarrow$  290 °C  
Carrier Gas : Helium  
Pressure program : 300 kPa  
Injector : Splitless, T = 290 °C  
Detector : ECD, T = 300 °C  
Odulator : single jet  
Sample Size : 1  $\mu$ L  
Sample : 100 pg/ $\mu$ L

Courtesy : Peter Korytar, The Netherlands Institute for Fisheries Research, IJmuiden



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