



Organochlorine pesticides

Analysis of organochlorine pesticides to EPA 625

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

Using GC/MS, an Agilent FactorFour VF-200ms column separates 16 organochlorine pesticides according to EPA625 in 27 minutes.



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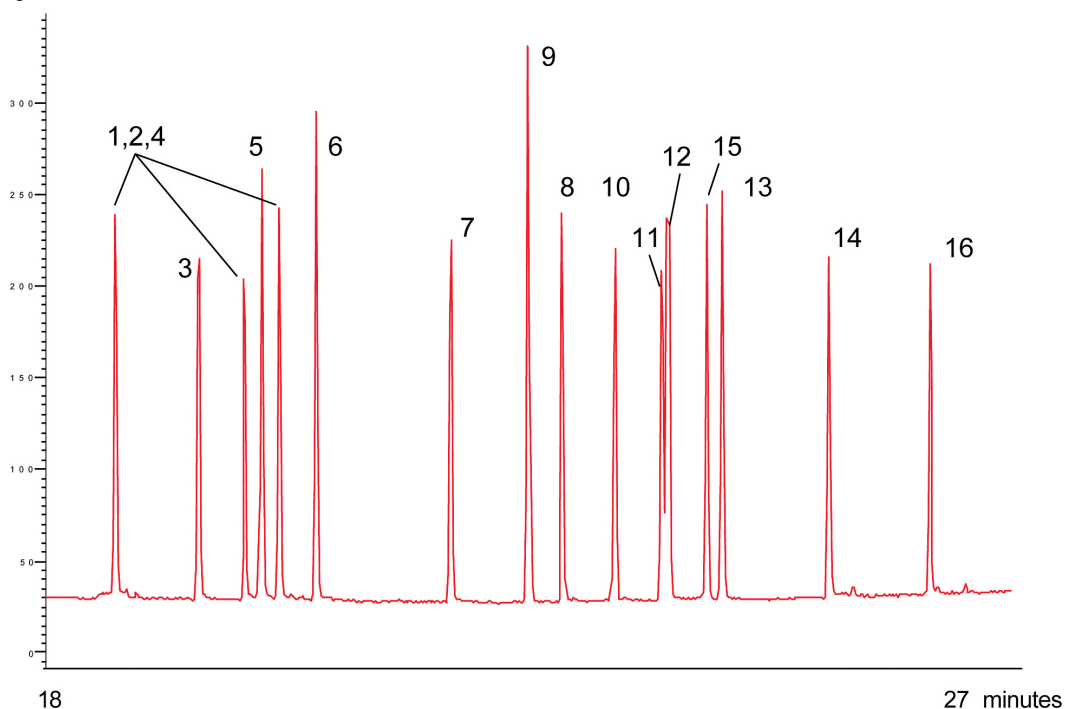
Conditions

Technique : GC
Column : Agilent FactorFour VF-200ms, 0.25 mm x 30 m
(df = 1.0 μ m) (Part No. CP8858)
Temperature : 45 °C, 3 min + 10 °C/min \rightarrow 325 °C
Carrier Gas : Helium, ca. 1.0 mL/min
Pressure program : 60 kPa
Injector : Split/Splitless, in split mode, 1:100
Detector : MS
Sample Size : 1 μ L
Solvent : methylene chloride, 2000 μ g/mL

Courtesy : Jan Peene, Agilent Application Laboratory,
Middelburg, The Netherlands

Peak identification

1. α -BHC
2. β -BHC
3. δ -BHC
4. γ -BHC (lindane)
5. heptachlor
6. aldrin
7. heptachlorepoxyde
8. endosulfan I
9. 4,4'-DDE
10. dieldrin
11. endrin
12. 4,4'-DDD
13. endosulfan II
14. endrin aldehyde
15. 4,4'-DDT
16. endosulfan sulfate



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This information is subject to change without notice.

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