



Halogenated hydrocarbons, $C_1 - C_2$

Separation of CFCs

Application Note

Environmental

Authors

Agilent Technologies, Inc.

Introduction

The silica adsorbent of Agilent CP-SilicaPLOT combines a high retention with a high inertness for halogenated hydrocarbons. Together with the low bleed, stability of the silica layer and the selectivity, this column is very suitable for low level halocarbon analysis.



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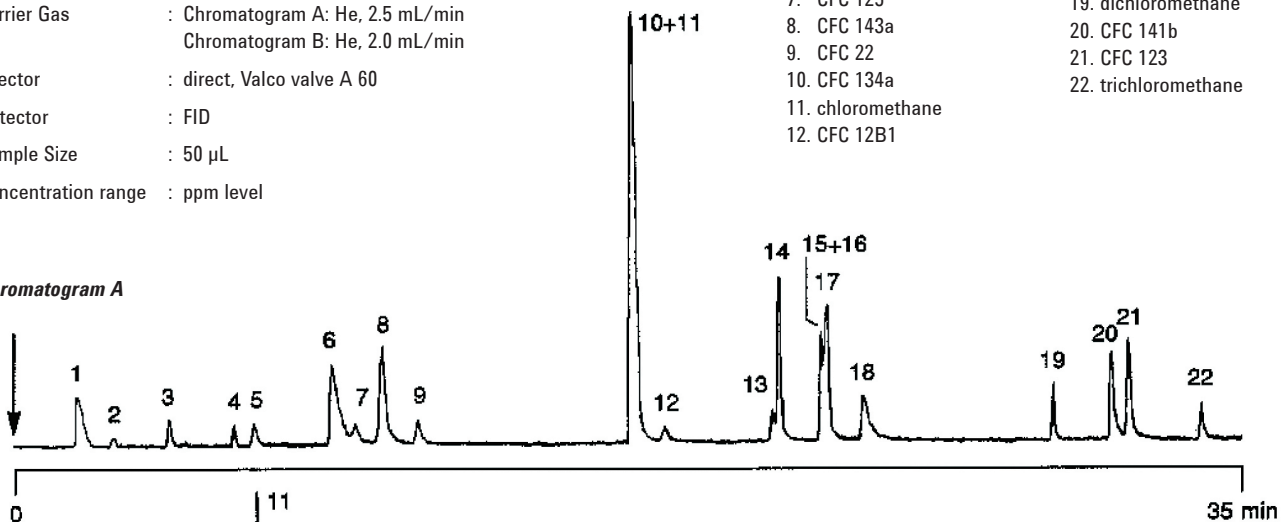
Conditions

Technique : GC-capillary
Column : Agilent CP-SilicaPLOT, 0.32 mm x 30 m, fused silica
PLOT CP-SilicaPLOT (df = 4.0 μ m) (Part no. CP8567)
Temperature : Chromatogram A: 35 °C (12 min) \rightarrow 150 °C, 4 °C/min
Chromatogram B: 70 °C (12 min) \rightarrow 150 °C, 4 °C/min
Carrier Gas : Chromatogram A: He, 2.5 mL/min
Chromatogram B: He, 2.0 mL/min
Injector : direct, Valco valve A 60
Detector : FID
Sample Size : 50 μ L
Concentration range : ppm level

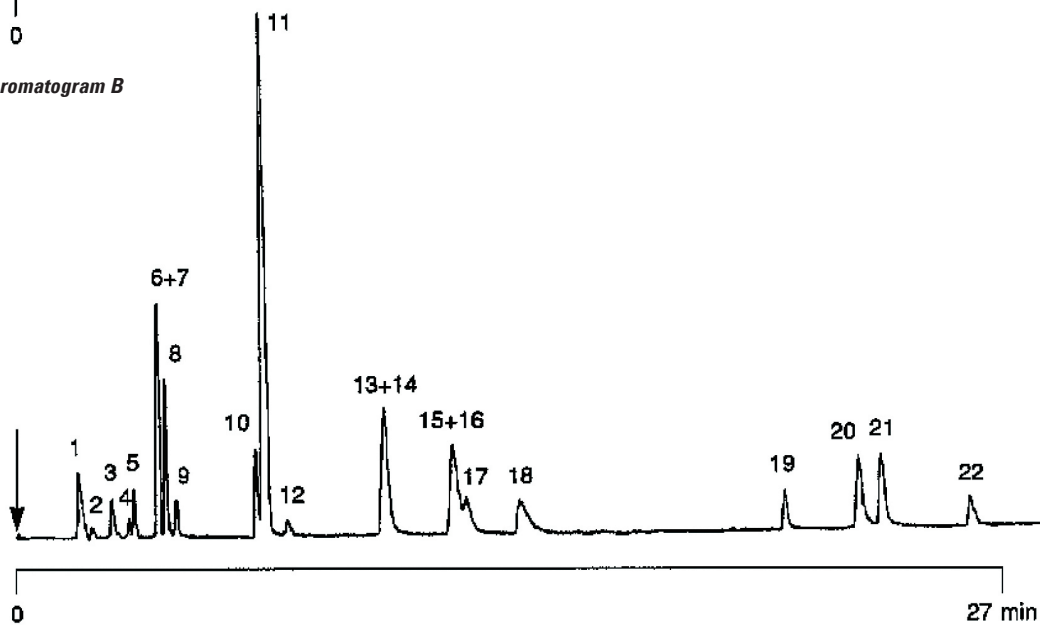
Peak identification

1. nitrous oxide	13. CFC 114
2. CFC 23	14. CFC 152a
3. CFC 1381	15. CFC 142b
4. CFC 32	16. CFC 124
5. CFC 115	17. bromomethane
6. CFC 12	18. CFC 11
7. CFC 125	19. dichloromethane
8. CFC 143a	20. CFC 141b
9. CFC 22	21. CFC 123
10. CFC 134a	22. trichloromethane
11. chloromethane	
12. CFC 12B1	

Chromatogram A



Chromatogram B



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This information is subject to change without notice.

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