MEGA CAPILLARY COLUMNS LABORATORY — FAST-GC Gas Chromatography Made in Italy

CHAMOMILE – Convenzional GC vs FAST-GC

Courtesy of Prof. C. Bicchi, C. Brunelli – Università di Torino, Dipartimento Scienza e Tecnologia del Farmaco – Via P.Giuria, 9 – Torino

Column	
Phase	MEGA-1701
I.D.	0.25 mm
Film Thickness	0.3 µm
Length	25 m

Chromatographic Conditions		
Inlet	Split	230°C
Injected Volume	1.0 µL	
Sample Dilution	1:200	in Ciclohexane
Carrier Gas	Hydrogen	1.5 mL/min

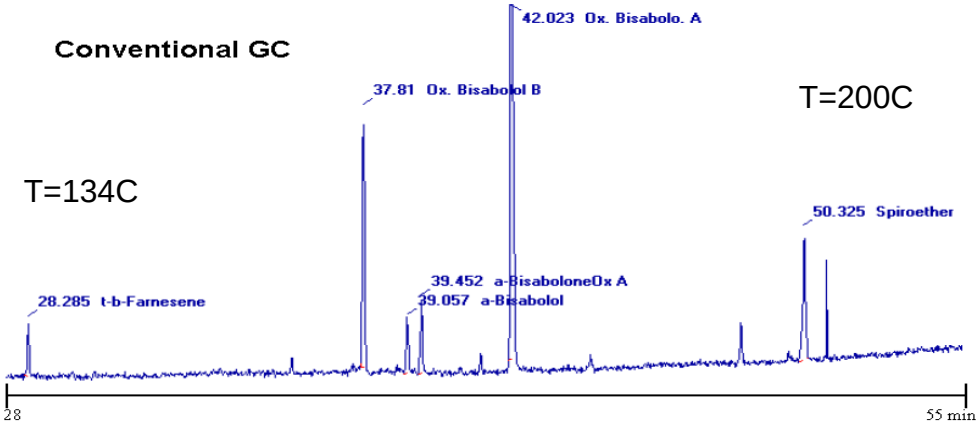
Oven	T start	50°C (0.1 min)
	Rate	3°C/min
	T end	250°C (5 min)
Detector	FID	250°C

Conventional GC

T=134C

T=200C

What GC ???



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Column	
Phase	MEGA-1701 FAST
I.D.	0.1 mm
Film Thickness	0.1 µm
Length	5 m

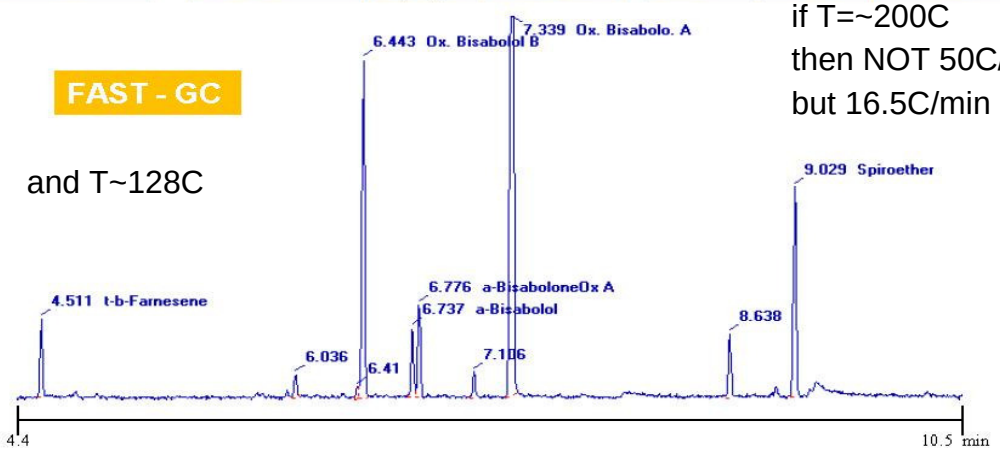
Condizioni		
Inlet	Split	230°C
Injected Volume	1.0 µL	
Sample Dilution	1:200	in Ciclohexane
Carrier Gas	Hydrogen	0.5 mL/min

Oven	T start	50°C (0.1 min)
	Rate	50°C/min
	T end	250°C (5 min)
Detector	FID	250°C

FAST - GC

and T~128C

if T=~200C
then NOT 50C/min
but 16.5C/min



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CHAMOMILE

Courtesy of Prof. C. Bicchi, C. Brunelli – Università di Torino, Dipartimento Scienza e Tecnologia del Farmaco – Via P.Giuria, 9 – Torino

Column	
Phase	MEGA-WAX FAST
I.D.	0.1 mm
Film Thickness	0.1 µm
Length	5 m

Chromatographic Condition		
Inlet	Split	230°C
Injected Volume	1.0 µL	
Sample Dilution	1:200	in Ciclohexane
Carrier Gas	Hydrogen	0.5 mL/min

Oven	T start	50°C (0.1 min)
	Rate	3°C/min
	T end	250°C
Detector	FID	250°C