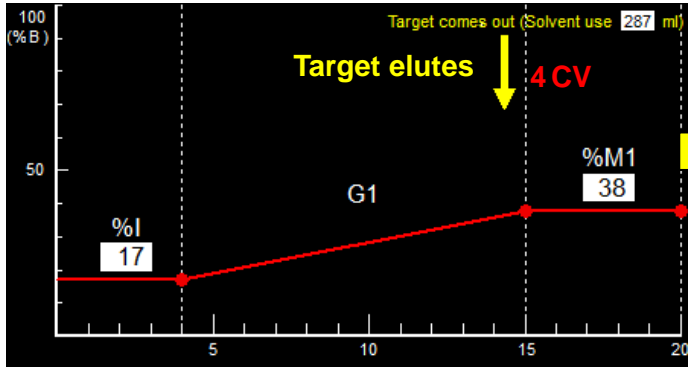


Elution Position Controllable Even If Flow Rate Is Doubled or Tripled

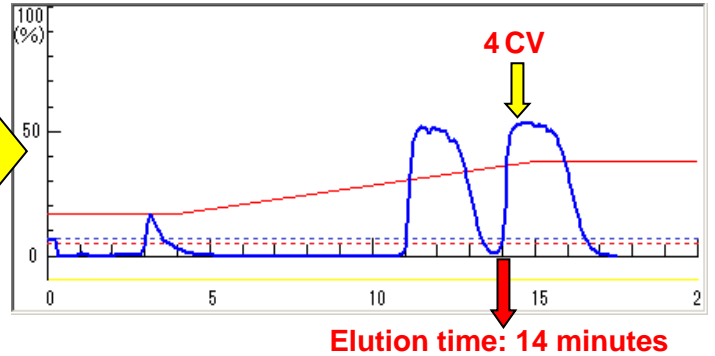
In every case, the elution position is always calculated and indicated by an arrow

- When target compound is eluted at 4 CV position by Yamazen's Automatic Method Setting

Optimal flow rate (20ml/min)



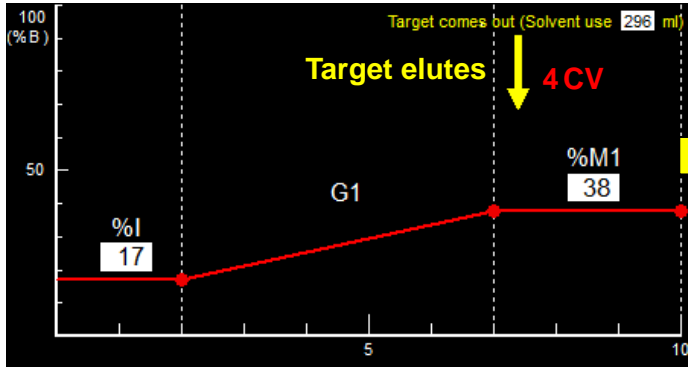
Chromatogram Premium Universal Column L-size (40g)



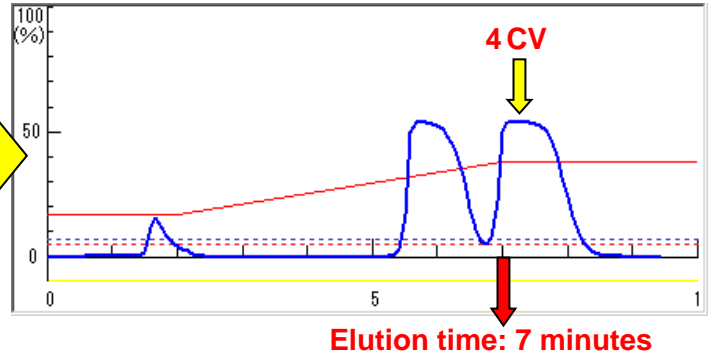
Sample: Methyl-p-hydroxybenzoate,
Butyl-p-hydroxybenzoate
Sample load: 400mg



Double-speed (40ml/min)



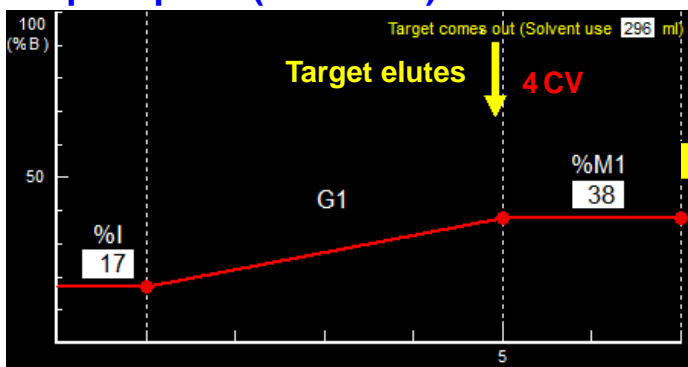
Chromatogram



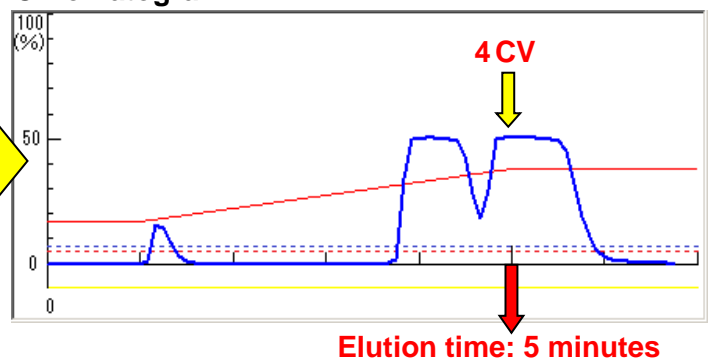
Elution position stays the same.
Separation gets slightly worse but time can be shortened.



Triple-speed (60ml/min)



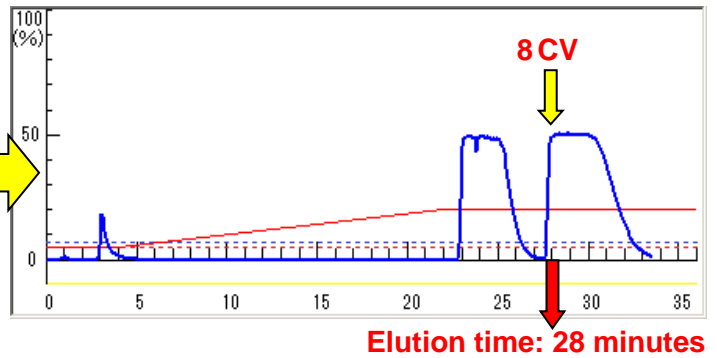
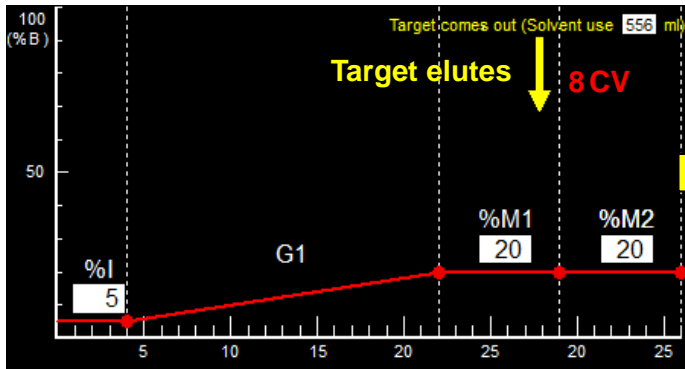
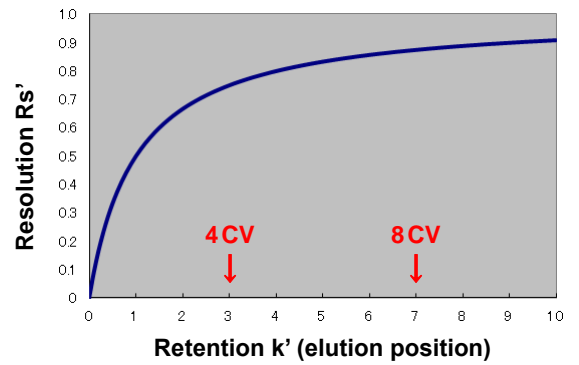
Chromatogram



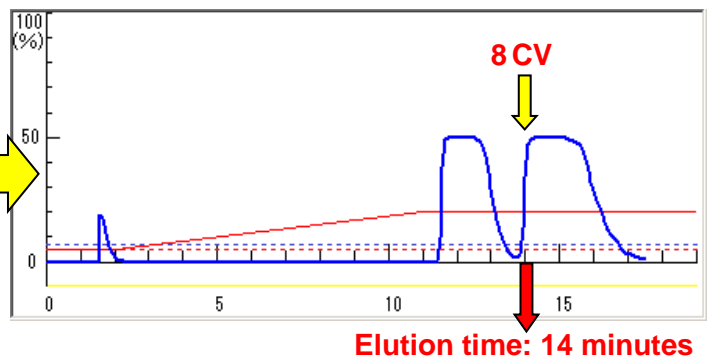
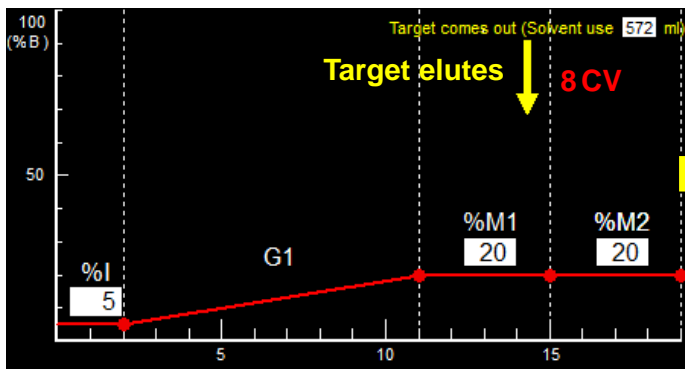
Poor Separation, Not Recommended!

■ Even if polarity is lowered and retention is increased, elution position is controlled.

Lower %I and %M so that elution position becomes 8 CV.



Double the flow rate



Adjust to make retention increased. Separation performance was slightly improved, but chromatographic time doubled, and an amount of solvent used was twice as much as that for the ordinary Automatic Method Setting.

By setting the double-speed (X2 mode), separation performance slightly decreases, but elution time can be shortened. Resolution in sample purification is almost the same as that obtained when the optimum flow rate is applied. This proves that Yamazen's Automatic Method Setting - Rf Gradient is the Best.

Yamazen Rf gradient can adjust the retention of a column based on the arrow indicating the elution position. And by doing that, if run time increases, time can be shortened by running with X2 mode (double-speed).

The best method for X2 mode (double-speed) is the one designed based on Yamazen Automatic Method Setting.



YAMAZEN CORPORATION

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