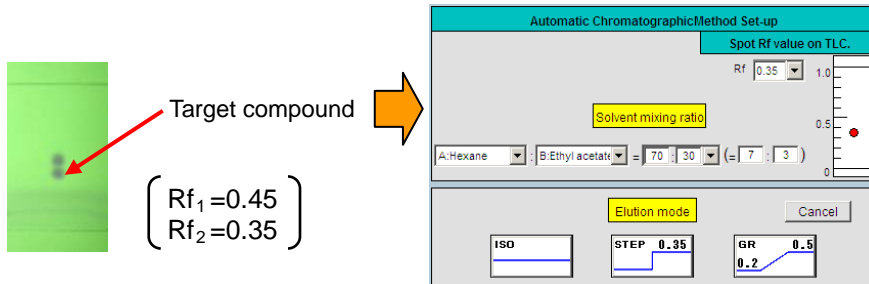


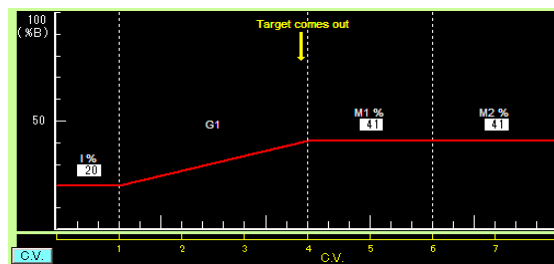
The Eluting Position of Target Compound and Resolution is extremely well controlled by the Yamazen's Chromatography Software

(Japanese Patent 3423707 and 4087395, US Patent 7169308)



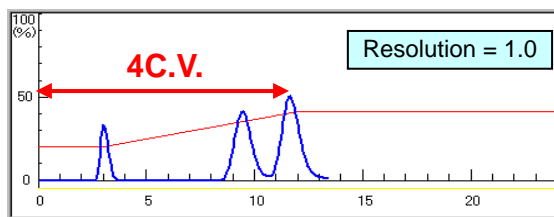
Input TLC results

Yamazen's Proprietary & automatic Gradient optimization: %B (solvent mixture) that gives Rf 0.2 for the first 1-column volume and the %B that gives Rf 0.5 at the end of Gradient or 4-column volume position.



Yamazen's software will elute the target compound at around 4-column volume, and a yellow arrow indicates the eluting position.

Yamazen's Automated Gradient Method



Sample: Toluene
Butyl-p-hydroxybenzoate
Methyl-p-hydroxybenzoate

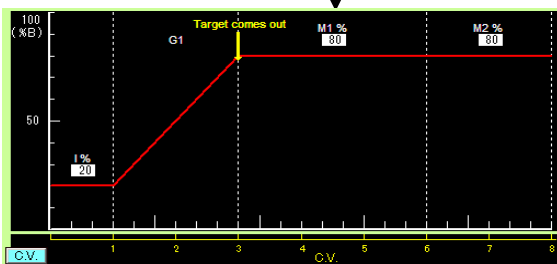
Increase %B (polarity).

1. Gradient time shortens from 3-CV to 2-CV.
2. Increase %M1.

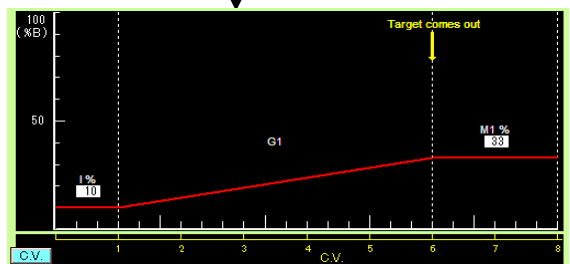
Method Change

Decrease %B (polarity).

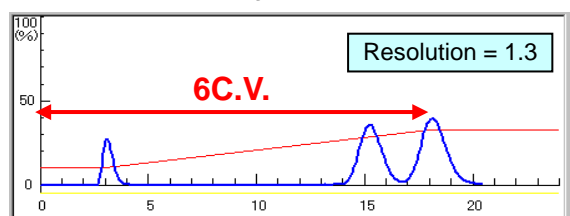
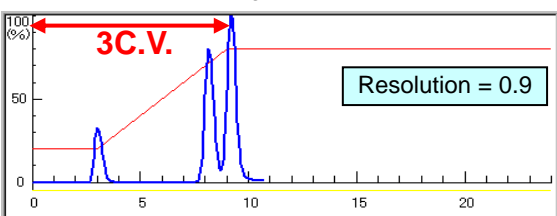
1. Gradient time increases from 3-CV to 5-CV.
2. Decrease %M1.



Eluting Position: 3-Column Volume



Eluting Position: 6-Column Volume



Only Yamazen has this superb technology utilizing the TLC results for the column chromatography. Other companies' products can not control the eluting position or resolution.