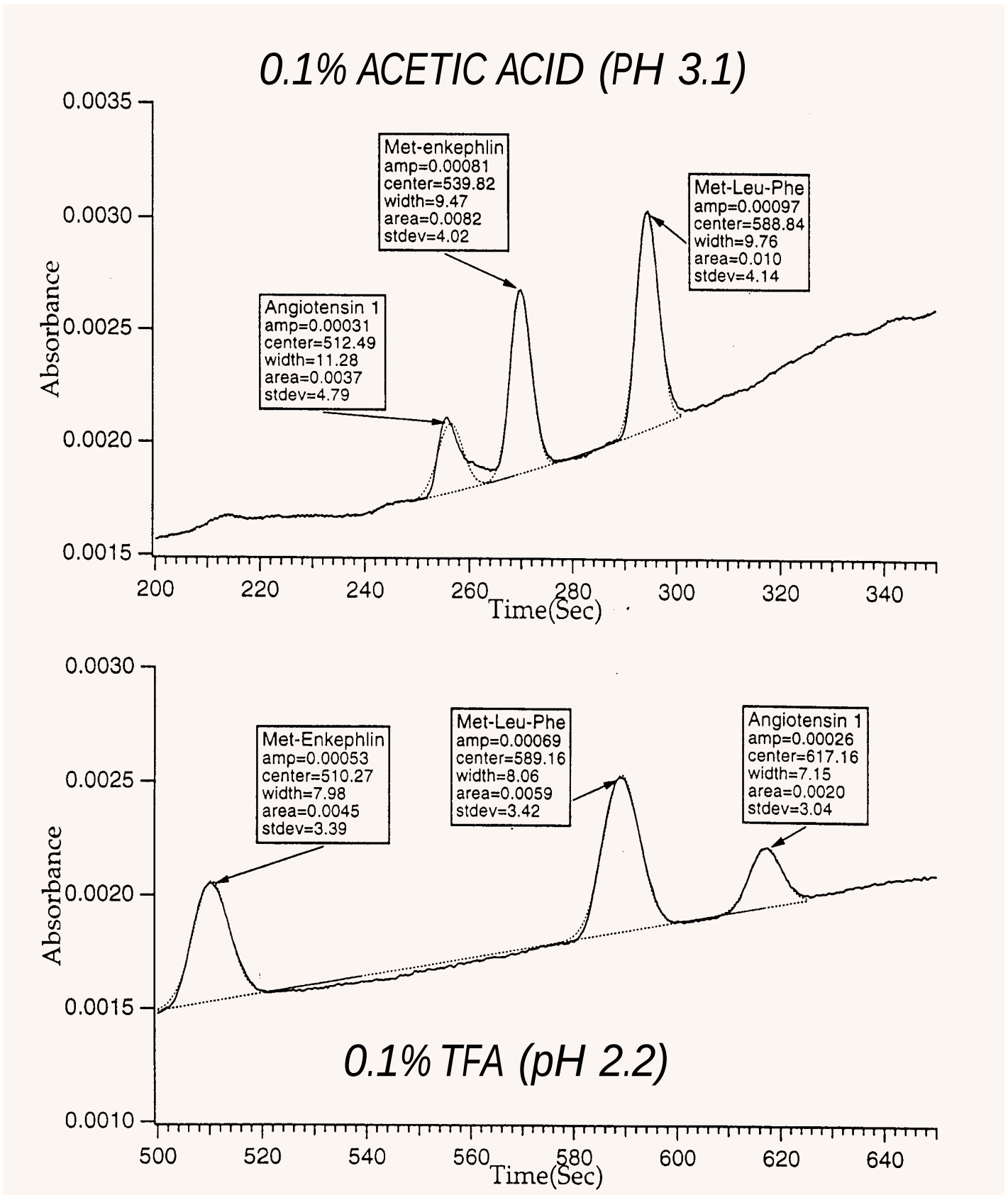
Basic Peptides WITHOUT TFA!

TARGA C18

- ✓ *Acetic acid buffer -- No TFA!*
- ✓ *Ideal for LC-MS - 3 to 5 fold increase in sensitivity*
- ✓ *Unique selectivity for probleatic separations.*
- ✓ *No tailing of Basic and Acidic analytes*
- ✓ *High sensitivity*
- ✓ *High stability*
- ✓ *Long Column Life*
- ✓ *Offered in wide range of formats and sizes*

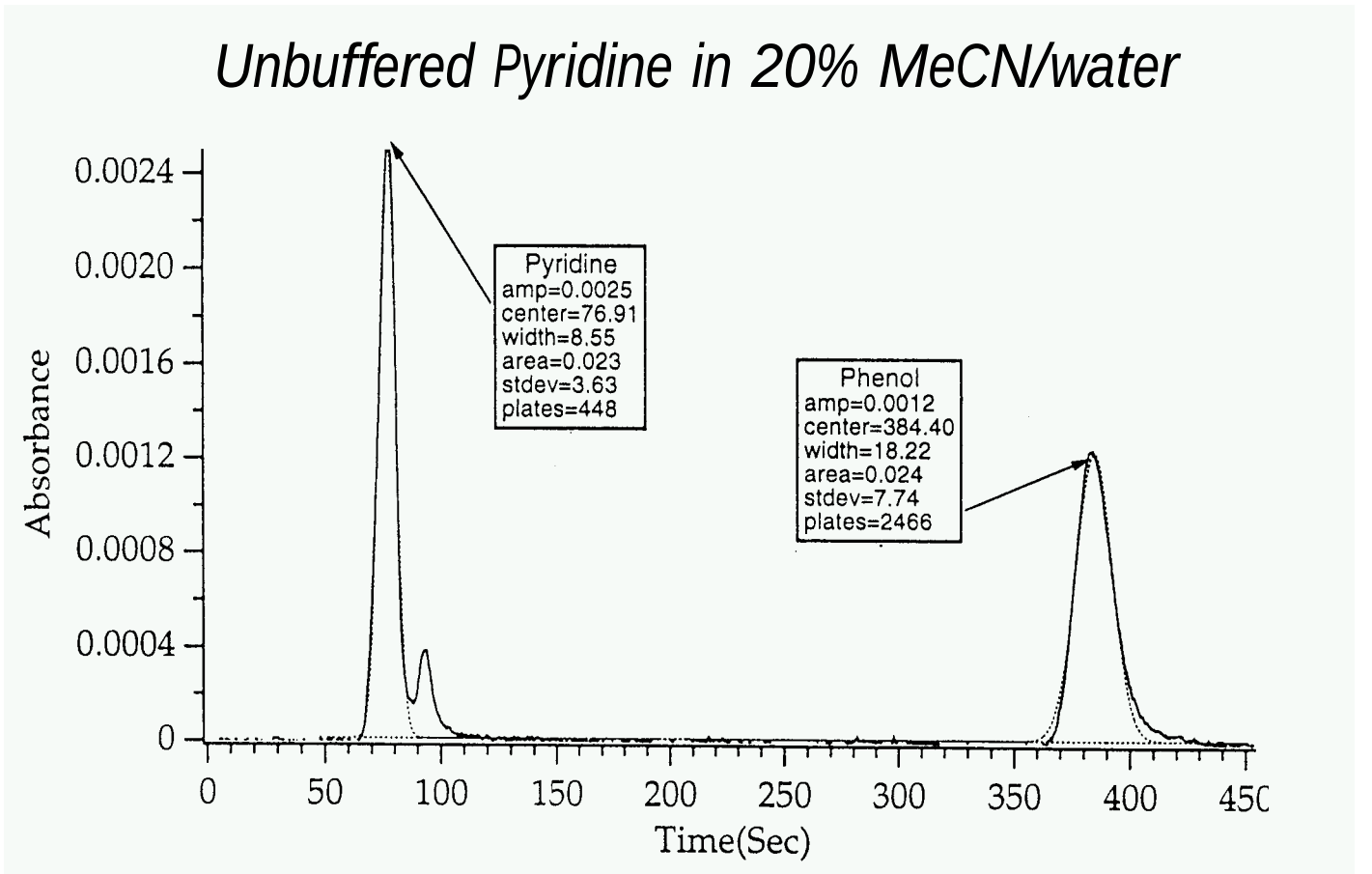


50 x 1.0mm TARGA C18 5μm column - 1%/min MeCN/water gradient, 50μL/min

LC/MS without TFA

Researchers have shown that Higgins Analytical's TARGA C8 and C18 phases have an extremely well protected silanol surface. An acetonitrile/water 1%/min gradients with as little as 0.05% acetic acid gives a very satisfactory peptide map on a short 5cm x 1mm TARGA C18 column. The ability to buffer with acetic or formic acid rather than TFA greatly enhances signals for LC/MS techniques.

While TARGA columns give exceptional performance without TFA buffer, it does not mean that you are precluded from using it. In fact, the changes in selectivity that comes with changing buffer acids can be a powerful tool for separation optimization. Notice how the peptide elution orders change between the acetic acid and TFA buffered chromatograms above.



50 x 1.0mm TARGA C18 5μm column - Isocratic 20% MeCN/water, 50μL/min

Higgins Analytical is grateful to Kamlesh Patel, University of North Carolina, Charlottesville,VA for permission to share these data.