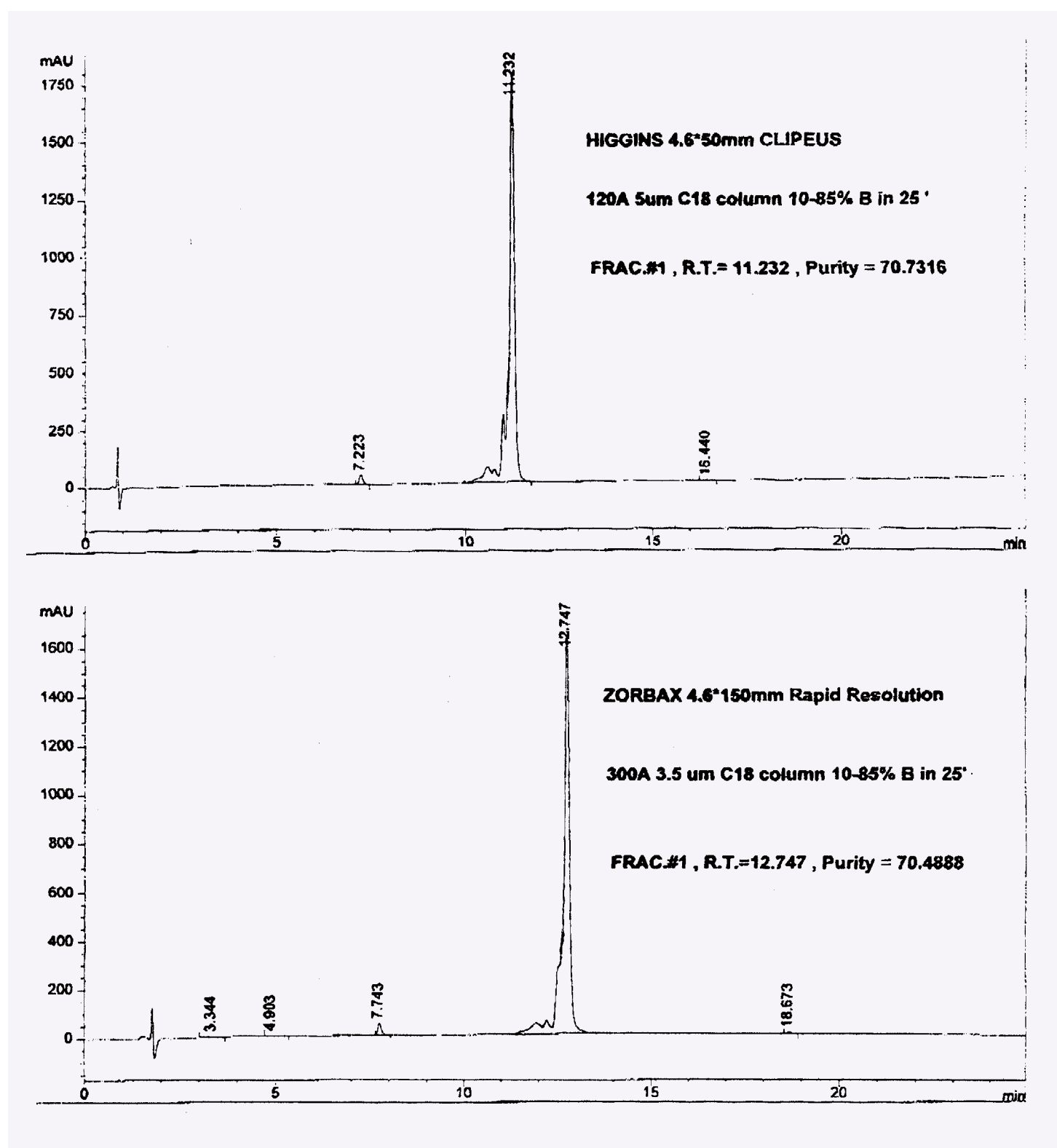


High Speed Analysis of Crude Synthetic Peptides



CLYPEUS C18

- ✓ Shorter Column
- ✓ Higher Resolution
- ✓ Faster Separation
- ✓ Larger Particle Size
- ✓ Lower Pressure
- ✓ Faster Equilibration
- ✓ Lower Cost



CLYPEUS selectivity wins another horsepower race:

Particle size, pore size, column length, or selectivity - which is the most important parameter to consider when optimizing a chromatographic separation?

Unfortunately, the sequence listed above is what many analysts follow when developing new, or optimizing old, HPLC methods. Realizing that selectivity is the most powerful factor, an experienced chromatographer approaches the challenge by considering these four factors in the reverse order.

Preparative chromatography fractions of a crude synthetic peptide were analyzed on a Zorbax 150x4.6mm 3.5 μ m 300 \AA Rapid Resolution C18 column and a CLYPEUS 50x4.6mm 5 μ m 120 \AA C18 column. The results in the chromatograms remind us that column length plays a minor role in gradient separations and illustrates that the selectivity and increased surface area of the CLYPEUS column out-performs a column three times longer and packed with particles 2/3 the diameter. Lower cost, lower operating pressure, and lower risk of clogging are additional advantages the shorter, larger particle size CLYPEUS column offers.

In addition to the C18 phase used in this example, the CLYPEUS columns family includes C8, Cyano, and Phenyl phases. These columns and the derivation of the CLYPEUS name are described in our [Product Catalog](#) available from your local distributor.