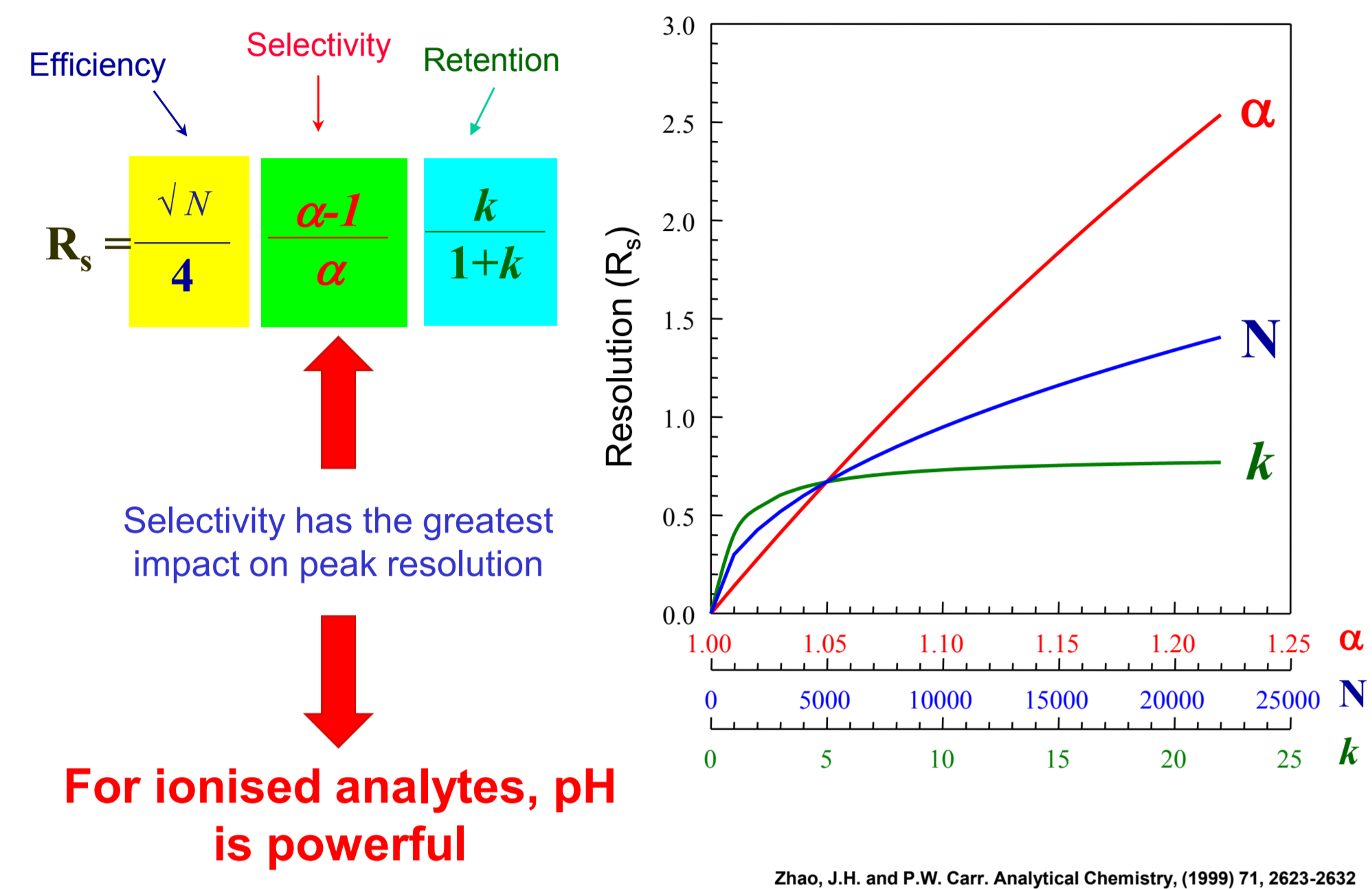


# Exploring HPLC / UHPLC Chromatographic Selectivity With Low And High pH Eluents On A New Extended pH Range Stable Silica-Based Stationary Phase

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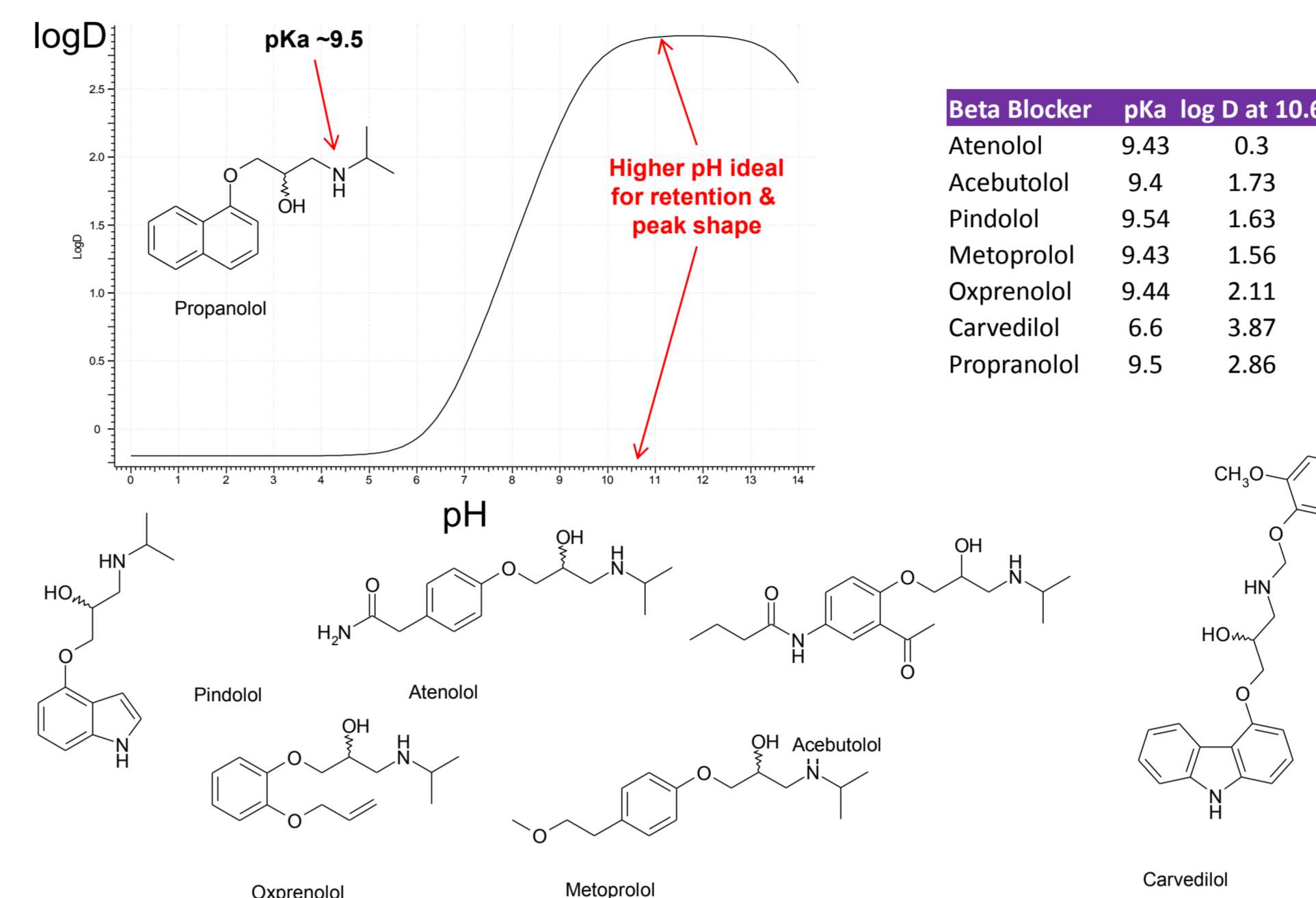
## 1. RESOLUTION: SELECTIVITY, EFFICIENCY & RETENTION



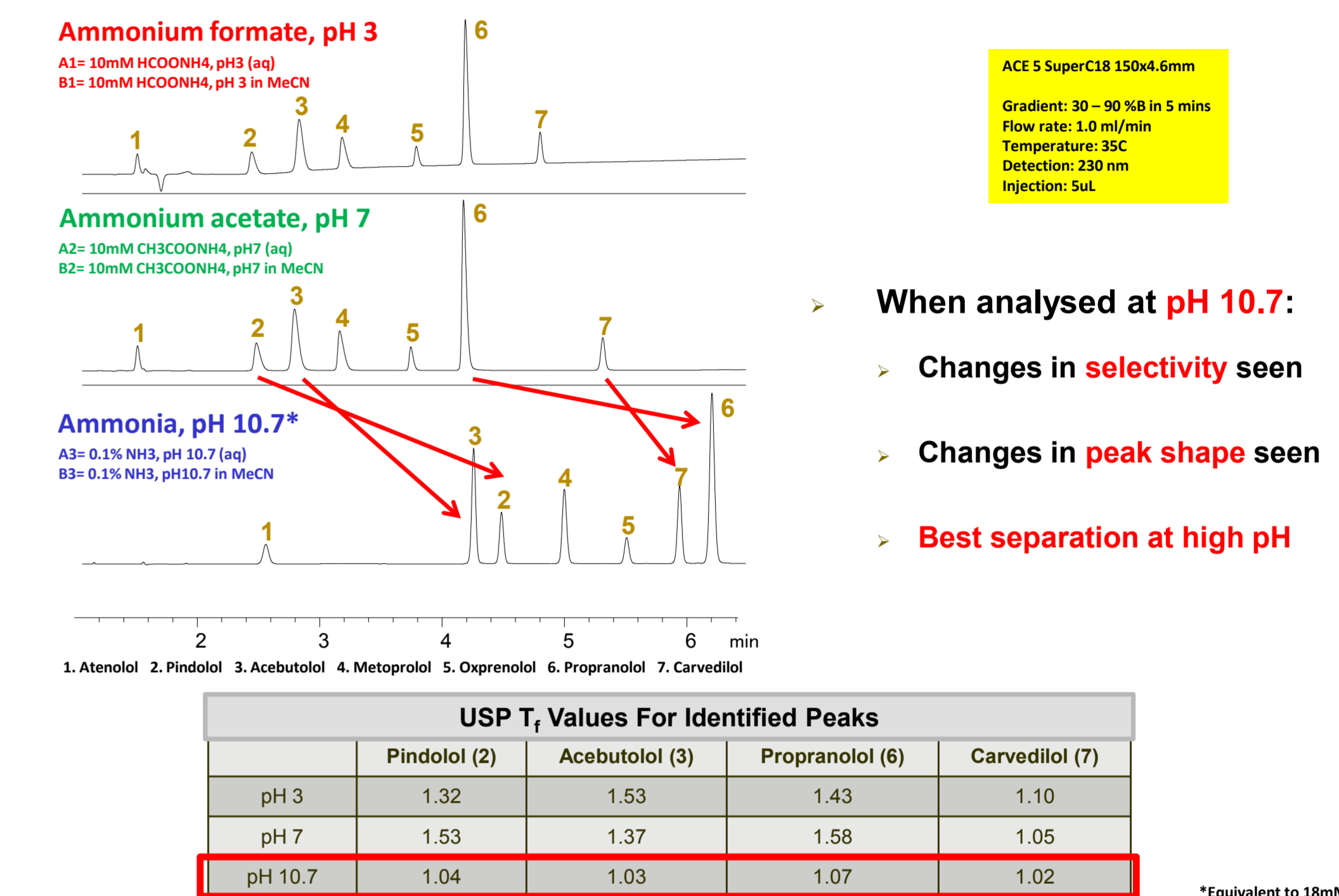
## 2. ACE® SuperC18™: A NEW OPTION FOR CHROMATOGRAPHERS

- Ultra-inert HPLC / UHPLC columns: extended pH stability (pH 1.5 – 11.5).
- Specially designed for high and low pH mobile phases with LC-MS buffers.
- Ultra-low phase bleed for improved LC-MS compatibility.
- Ideal for high pH prep apps eg isolations / purifications.
- Stable at low, medium and high pH eluents for >20,000 column volumes.

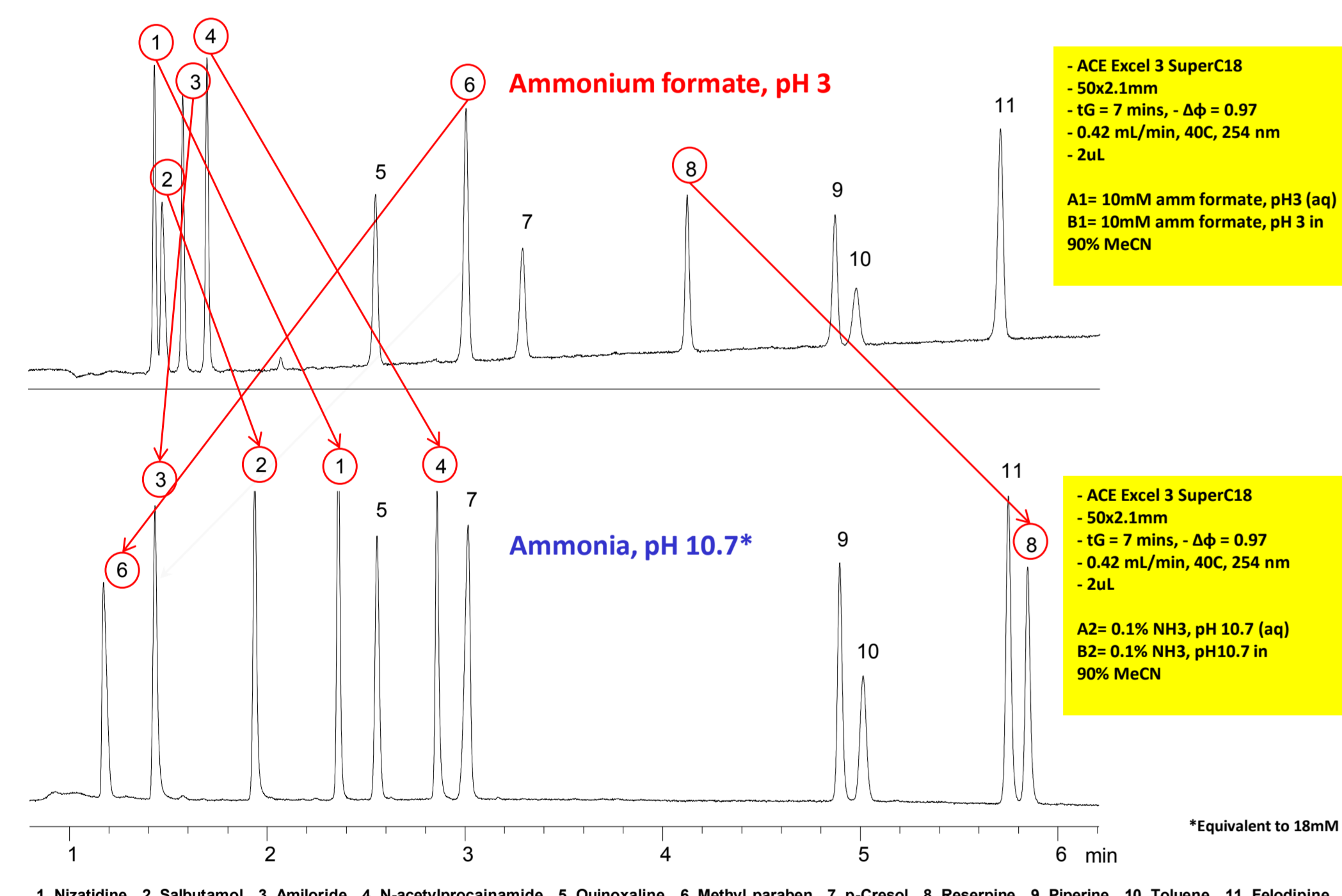
## 3. ANALYSIS OF 7 $\beta$ -BLOCKERS ACROSS THE PH RANGE



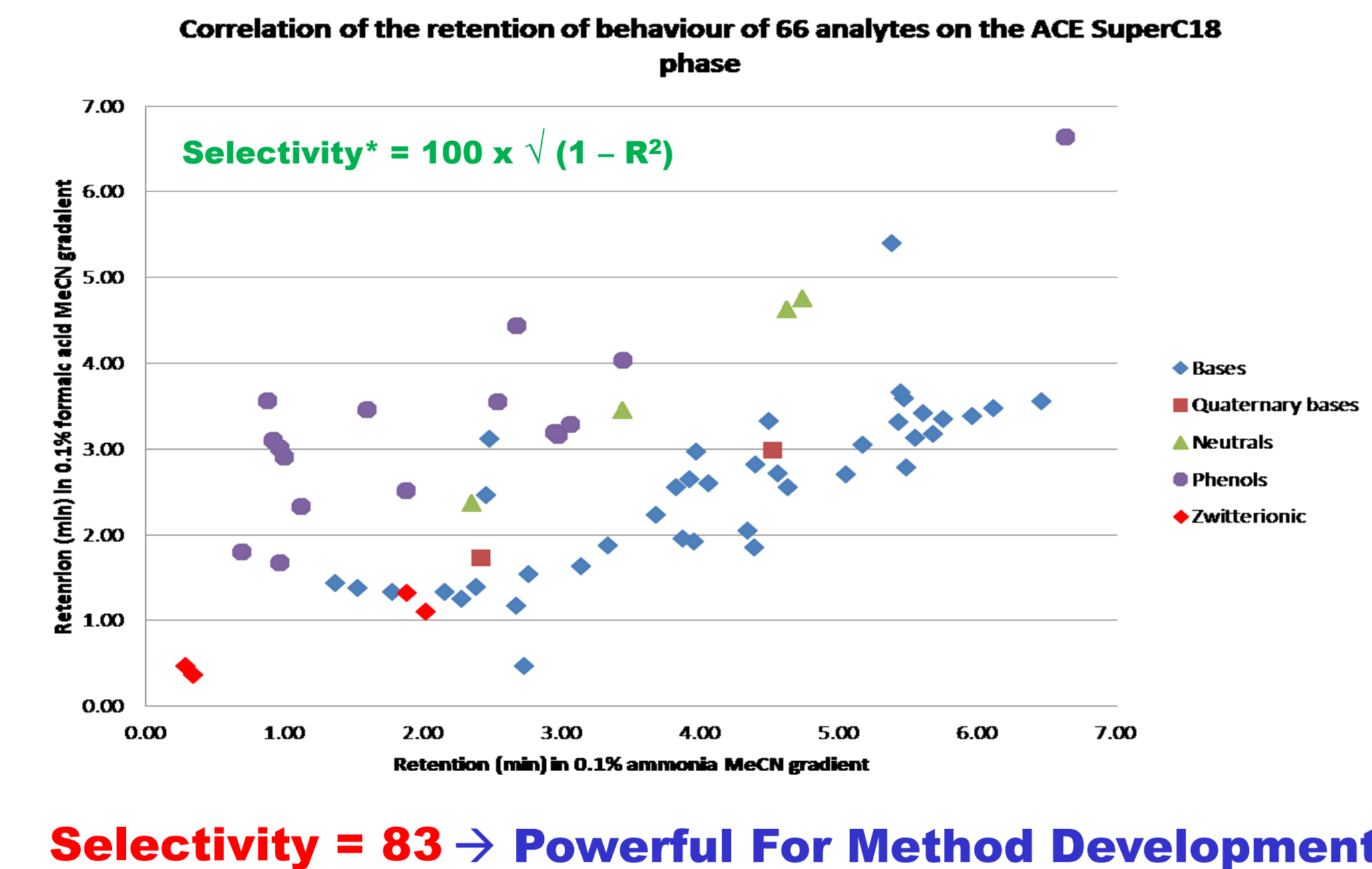
## 4. ANALYSIS OF 7 $\beta$ -BLOCKERS ACROSS THE PH RANGE (2)



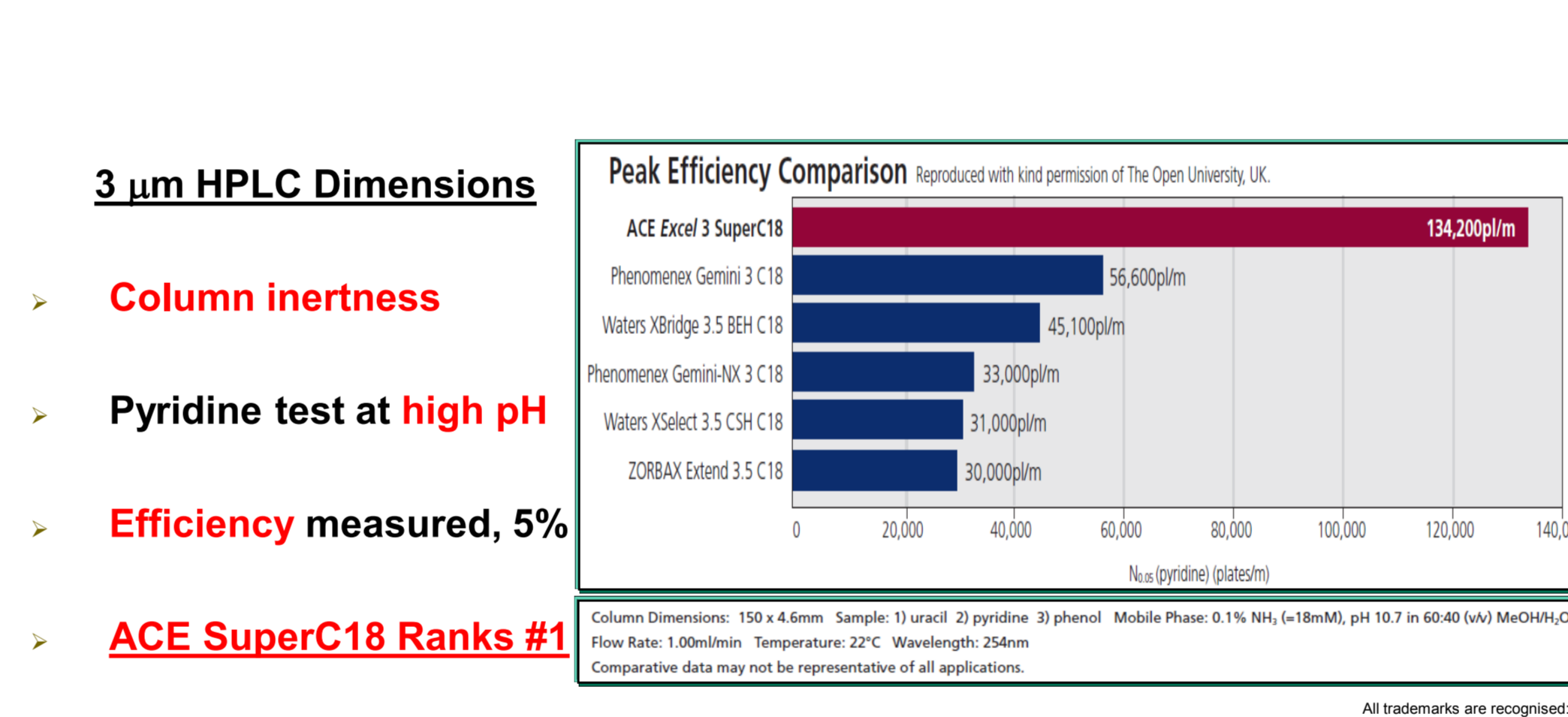
## 5. METHOD DEVELOPMENT: LOW / HIGH PH ELUENTS



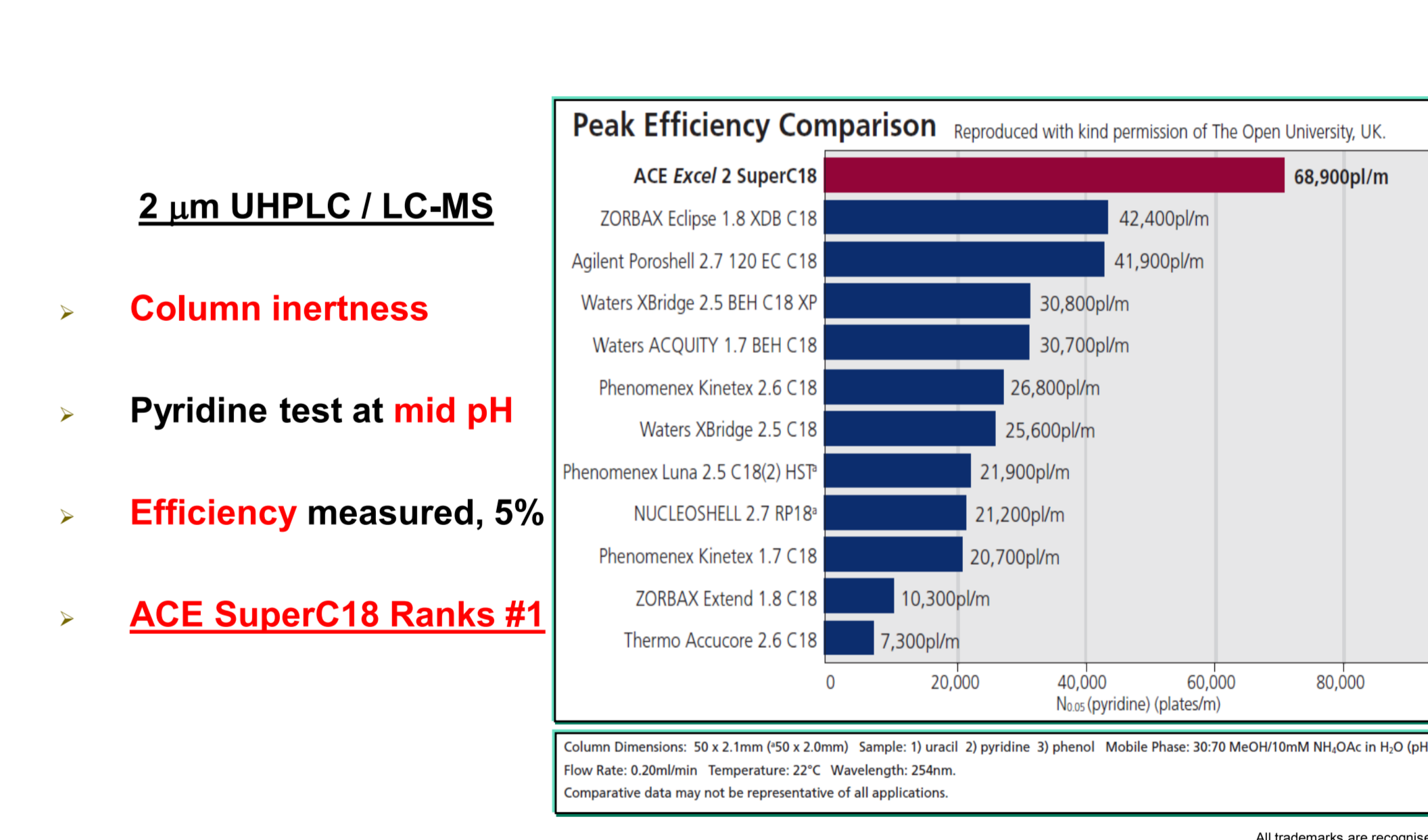
## 6. EXPLORING SELECTIVITY WITH LOW / HIGH PH ELUENTS



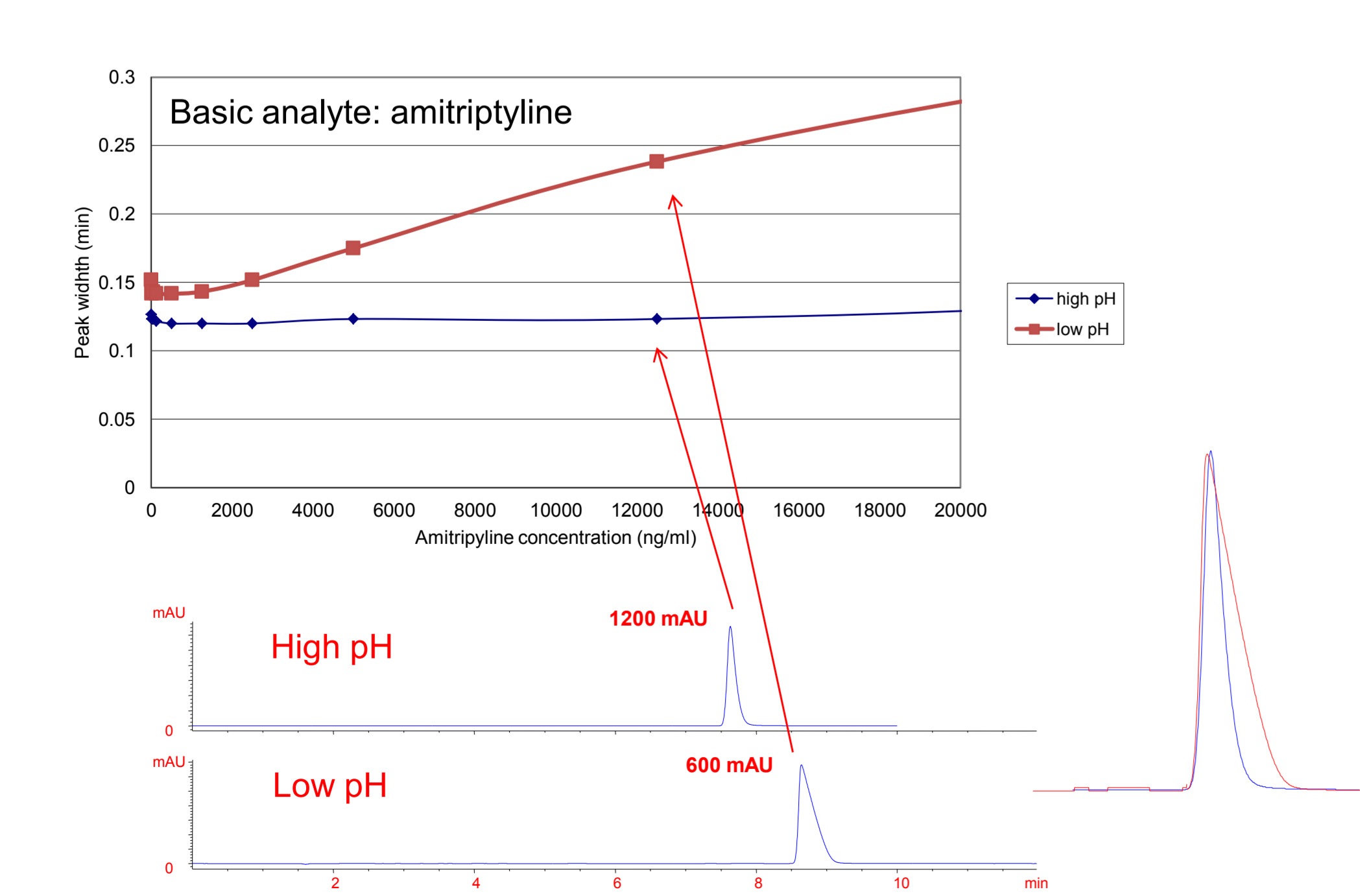
## 7. PHASE INERTNESS & PERFORMANCE: HPLC AT HIGH PH



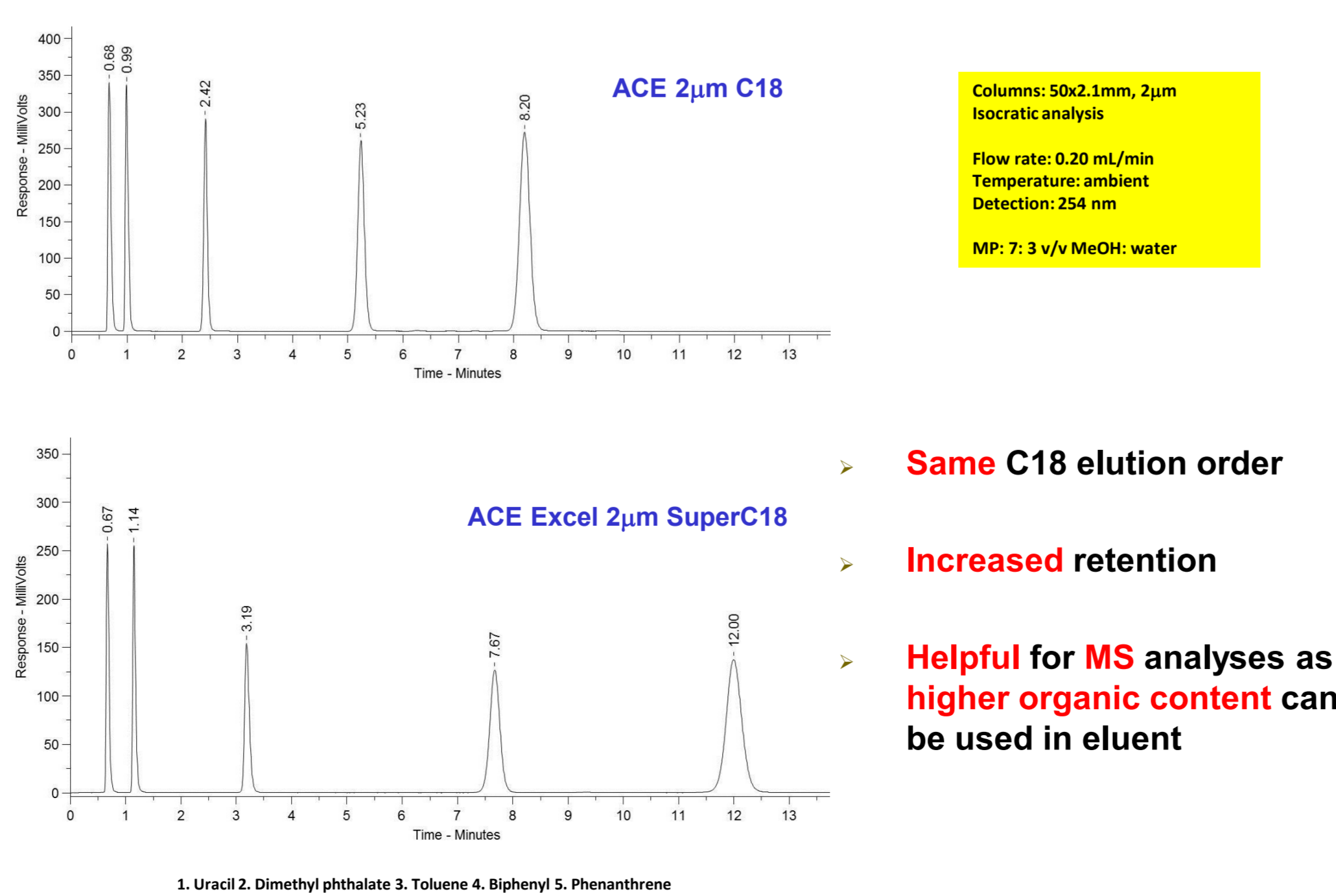
## 8. PHASE INERTNESS & PERFORMANCE: UHPLC AT MID PH



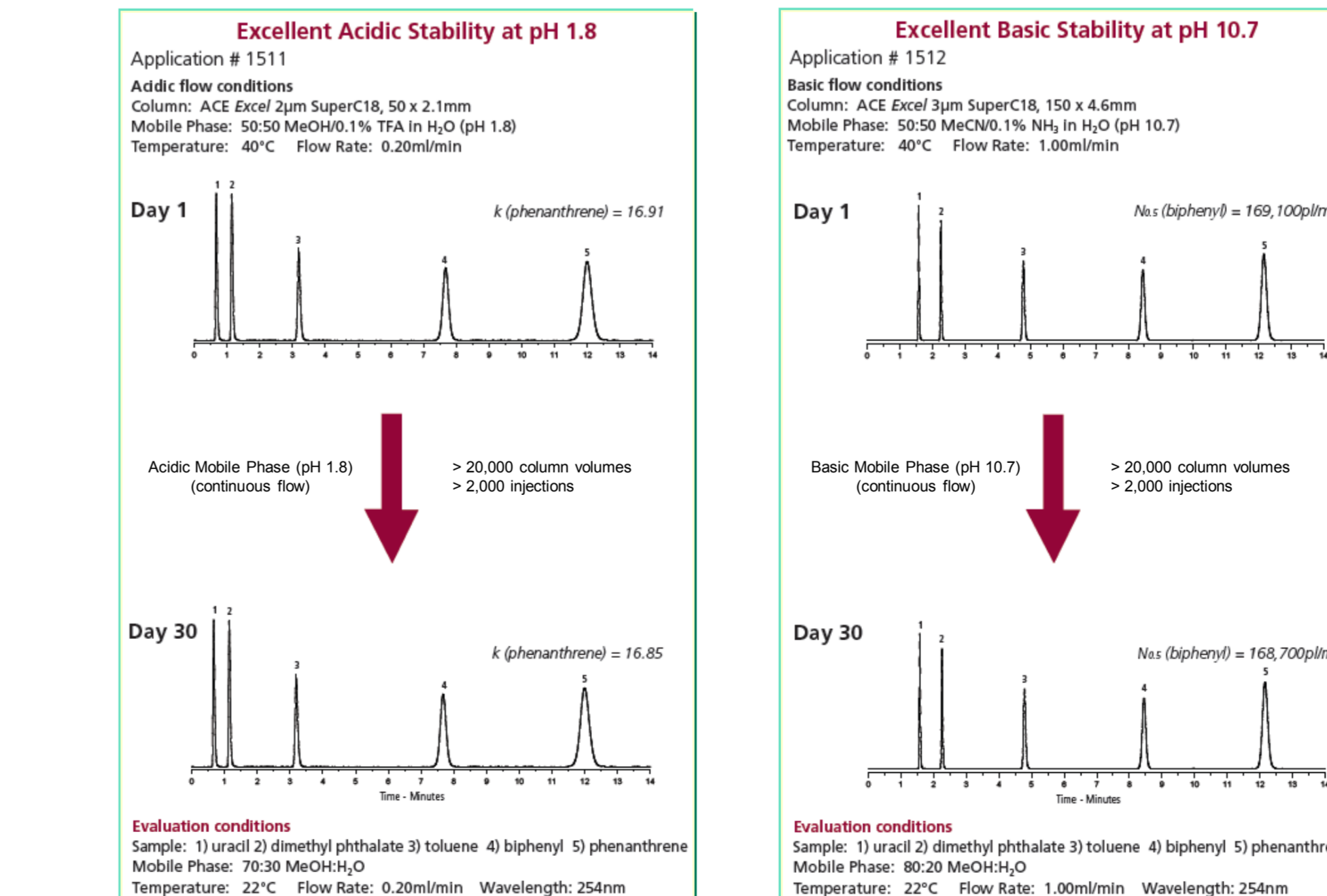
## 9. IDEAL FOR SCALING UP AND PREPARATIVE APPLICATIONS



## 10. ACE® SuperC18™ SHOWS INCREASED RETENTIVITY



## 11. PHASE STABILITY WITH LOW AND HIGH PH ELUENTS



## 12. SUMMARY AND CONCLUSIONS

- Eluent pH is a powerful approach for exploring chromatographic selectivity in method development, isolations.
- The ACE® SuperC18™ is a NEW silica-based extended pH range stable (pH 1.5-11.5) HPLC / UHPLC column.
- This NEW phase was ranked #1 in a comparative test against leading competitors for inertness / performance using pyridine.
- The ACE® SuperC18™ provides chromatographers and method developers with an NEW selectivity option with an extended pH range.
- Stable at low, medium and high pH eluents for >20,000 column volumes.

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