

RESTEK

The Advantage

Innovators of
High Resolution
Chromatography

Rtx-5MS

The True LOW BLEED LEADER !

Every column manufacturer claims to have the lowest bleed capillary column for use with GC/MS. Restek decided to conduct a side-by-side test of several commercially available "MS" columns for bleed, response and performance. Our testing indicates that the Rtx@-5MS is the ideal column for GC/MS applications requiring high sensitivity.

Bleed

The Rtx@-5MS was compared to two other "MS" columns in an HP 5890 Series II GC with an HP 597 1 Mass Selective Detector. Each column was tested under identical conditions with respect to both GC and MSD param-

eters (e.g. linear velocity, temperatures, tuning, etc.). Figure 1 shows the plot of mass 207, the most characteristic bleed ion of a polysiloxane stationary phase. The Rtx@-5MS column exhibits lower bleed at both 325°C

and 360°C compared to the other two "MS" columns.

How important is having a column with low bleed?

Column bleed can ultimately effect sensitivity, spectral quality, and source contamination. When a column exhibits high bleed, the signal-to-noise (s/n) ratio is reduced. A low s/n ratio results in poor sensitivity and can decrease the quality of analyte spectra. A decrease in spectral quality complicates the interpretation of mass spectra that makes accurate compound identification difficult or impossible. Reduced column bleed is critical for ion trap mass

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FIGURE 1: Rtx@-5MS exhibits lower bleed than other "MS" columns!

