



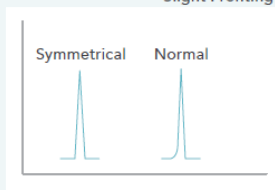
عیب یابی در GC

مشکل شماره ۵: جلودار شدن پیکها (Peak fronting)

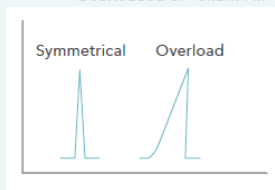
Fronting Moderate to severe asymmetry towards the front or left side of the peak.

Symptom

Slight Fronting



Overloaded or "Shark Fin"



Possible Cause

Improper column installation.

Sample is condensing in the injector or column.

Column is overloaded as a result of injection volume and split ratio.

Polarity mismatch.

Suggested Remedy

Reinstall the column.

Check injector and oven temperature with an accurate thermometer. If accurate, increase temperature as necessary, but do not exceed the maximum temperature limit of the column.

Reduce the injection volume; add or increase split flow.

Use a column with greater capacity. Columns with larger diameter or thicker stationary phase coatings generally have larger sample capacities; however, resolution may be reduced.

Polar compounds will have lower concentration capacity on a non-polar phase and vice-versa. Choose a phase with the appropriate polarity and selectivity for your sample.