

FAME Analysis for Coastal Zones Research Institute performed by SRI Instruments using an SRI 8610C Gas Chromatograph October 12, 2007

The FAME sample was submitted by Claude Pelletier. An example chromatogram using a different brand of GC. was provided for reference. The reference chromatogram was run on a 30 meter Zebron ZB-WAX .32mm id .25mm film thickness column.

The SRI chromatograms were run on a 30 meter Restek MXT-WAX .28mm id 1.0 micron film thickness column. (this is what we had in stock at the time) The thicker film thickness and smaller column id account for the longer retention times and broader peak widths on the SRI chromatograms. Despite these differences, the SRI chromatograms are comparable to the reference chromatograms.

The SRI 8610C GC was equipped with a heated Split/Splitless injector and FID detector. 1ul of the customer FAME sample was injected with the injector temp at 200C.

The column was temperature programmed from 190C to 232C at 3 degrees per minute followed by a hold at 232C for the first two chromatograms.

The Splitless injection (#3) was programmed from 50C to 190 at 30C per minute then 3 degrees/min to 232 and hold.

All chromatogram are shown at the same scale.

