The GC-FID is a great instrument to determine the concentration of volitle compounds like FAMEs. Developing a protocol to properly equilibrate the column after use is a best practice. In addition to a best practice, it is necessary in properly distinguishing peaks and data validation. The following is intended to determine the cause and remedy to run carry over.

* To answer the question about the source of the carryover, the column will be rinsed with acetone before and after 1 sample run. The sequence template is listed below.
  1. Acetone instrument blank
  2. Acetone instrument blank
  3. Acetone instrument blank
  4. Acetone instrument blank
  5. FAME sample
  6. Acetone instrument blank
  7. Acetone instrument blank
  8. Acetone instrument blank
  9. Acetone instrument blank
  10. FAME Sample
  11. Acetone instrument blank
  12. FAME sample
  13. FAME sample
  14. FAME sample
  15. FAME sample
  16. Acetone instrument blank
  17. Acetone instrument blank
  18. Acetone instrument blank
  19. Acetone instrument blank
* If this does not correct the carry over issue then the samples that undergo the methanolysis procedure will need to increase. This should increase the amount of FAME on column and should increase the amount of sample detected. Increasing the separation between the samples and the carry over.