

20180206

DB-WAX Column Rinsing for FAME analysis

The GC-FID is a great instrument to determine the concentration of volatile 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.