Agilent Purification System, LAB EXERCISE

LAB TITLE

Getting familiar with the Agilent G9340A fraction collectors.

Lab Objectives

The purpose of this LAB is to familiarize yourself with the Agilent G9340A fraction collectors repair procedures and diagnostics. These fraction collectors are also known as 440LC fraction collectors.

The LAB is divided into two parts:

1) Module Repair Procedures for the G9340A fraction collectors
2) G9340A fraction collector diagnostics

Created by Petro Van Poppel, 16 April 2013

1)Modular repair procedures for G9340 FC's

***IMPORTANT:* Use the Service Manual and any other instructions in this LAB**

a) Store the calibration Coefficients to a file onto the desktop.
(*use the Service How To*)

b) Un-plumb and un-stack your fraction collector. **Beware of leaking solvents!!!**

c) Using proper anti-static precautions (in your tool box), remove the following assemblies:
   i) Back panel, Z-cover and Theta-cover
   ii) CPU board
   iii) Power supply
   iv) x-axis encoder PCB (**be very careful not to break the opto!**)
   v) x-axis stepper motor

d) Find all mounting screws for the theta-axis PCB. Draw a picture and mark the locations in the picture:

e) Reinstall all assemblies into the unit and check the encoder wheel alignment.

f) Describe how the X- and Z-belts are tensioned:
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g) Configure the fraction collector correctly.

h) Make the fraction collector operational and flush with water through.
(*plumbing, wiring, communicate with OpenLAB*)

2)G9340A diagnostics

a) Run a calibration test and if need be, run a calibration.

b) If re-calibrated, store the new calibration coefficients file.

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