

Approved by Director: Dr. Guy Vallaro

Agilent Monthly Maintenance

- Clean Pin Set:** While the Agilent is turned off, open the lid, unlatch the silver handle, and slide out the pin set tray. Turn the black handle counter clockwise to free the pins from the tray. Separate the plastic portion from the black portion. Locate the designated toothbrush and wet the bristles with ddH₂O. Use the wet toothbrush to gently clean the pins. Dry the pins with a clean Kim wipe. Reassemble the parts and return the pin set to the Agilent.
- Seal Test:** Place an empty chip into the Chip Priming Station and close it shut (you will hear it click). Press down on the plunger and hold for 5 seconds. Release the plunger. The plunger should come back up easily. If the plunger does not come back up easily, then the syringe needs to be changed (see instructions for changing the syringe below).
- Short Circuit Test:** This is to be performed after the seal test. Turn on the Agilent and select the specific instrument to be tested. Click on the diagnostics tab and check off the "Short Circuit Test" box. Hit start. You will be prompted to load an empty chip (*use the one you just used for the seal test). Place the empty chip onto instrument, close the lid, and hit "OK". The status of the instrument will then change to "Executing" and the test will begin. When the test has completed the instrument will change to "HW Diagnosis ended". Click "OK" and note if the test has "Passed" or "Failed". If the test has "Passed" you can end out the program. If the test has "Failed", please see why, make the appropriate changes, and run the test again.

Agilent Quarterly Maintenance

- Clean Lens:** Using a clean Kim wipe and alcohol, gently wipe the lens of the instrument.
- Change Syringe:** Unscrew the current syringe from the Chip Priming Station and replace with a new one. Perform a seal test to ensure proper functioning of syringe (see instructions for performing a seal test above).
- Record all activities on the appropriate QRM sheets (QRM-11, QRM-47).