

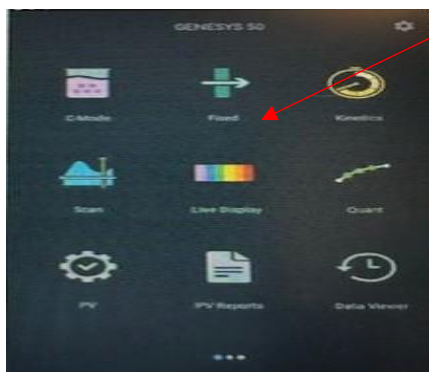
Lab Technique 21b: Using a UV-Vis Spectrophotometer - Genesys 50

(CHM1045C Expt. #10)

The Fixed application measures absorbance (A) and percentage transmission (%T) on samples by determining the amount of light passing through a sample relative to a reference (which can be air).

Please follow the procedure outlined below:

1. From the Application Home, select “Fixed Application”. The available methods will be displayed.



2. Select “CHM1045C Expt. #10” method. The measurement parameters will be displayed.
(NOTE: Measurement parameters do not require any changes unless otherwise instructed by the professor.)
3. Tap “Continue” to proceed with the next step.
4. Insert the blank solution into the cell holder and tap “Blank”. This reference measurement will be used for all subsequent samples until repeated.
5. Insert the first standard solution into the cell holder and tap “Measure”. The result at the selected wavelength will be displayed on the screen. Follow the prompts to complete measurement.
6. Repeat step 5 for each standard solution.
7. Repeat step 4.
8. Repeat step 5 for each test solution.
9. Once you have completed all sample measurements, tap “X” to close the method. A new screen will then be displayed. Tap “End Experiment” to finalize the procedure.