Lab 11B: Electrophoretic Separation of Biological Compounds: DNA Agarose Gel Electrophoresis Analysis and Write-Up

I have copied in the images of the agarose gel electrophoresis of your bacterial genomic DNA and your PCR products below. Please identify which gel includes your samples and complete the assignment as described below.

Figure A. Agarose gel #01.

Figure B. Agarose gel #02.
Summary of Assignment to be Turned In

1. Descriptive title for assignment.
2. Brief Introduction describing the purpose of this lab activity and its objectives.
3. A Results and Discussion section that includes the following components. **Be sure to follow the rules for presenting figures and tables!**
a. Copy of the agarose gel (call this Figure 1) with your bacterial genomic DNA and PCR products. Be sure to identify which lanes contain your DNA samples. Also be sure to identify which lanes contains the DNA ladder.
b. Create a table (Table I) that presents the DNA concentrations of both your genomic DNA sample and your PCR product.
c. Provide a written analysis of your bacterial DNA electrophoresis results. What were the approximate molecular weights of the genomic DNA and the PCR product? Were the results consistent with what we expected? If not, hypothesize why not.

4. A Conclusion paragraph summarizing what was learned and could be concluded from the data.

Assignment must be typed. Written text must utilize correct spelling, complete sentences, and correct grammar.