



Name _____

ACTIVITY: LOCAL BROADCASTING RADIO FREQUENCY

Instructions: Use the RTL-SDR dongle provided in the classroom along with the SDR software and complete the following parts of the activity.

Part I: Identify with your group the local broadcasting radio stations and their frequency in the radio spectrum. Provide the information in the table below.

Frequency	AM-FM	Broadcaster

Part II: Use the frequencies obtained on Part I and obtain the corresponding wavelengths. Remember to use the relation $\lambda = \frac{c}{f}$, where $c = 3.00 \times 10^8 \frac{m}{s}$.

Frequency	Wavelength

Part III: Conclusions

Use the knowledge you gained from this activity to answer the following questions.

1. Which were the three (3) most prominent stations in your area?

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2. Many devices cause low-frequency radio waves that create noise in the RF readings. Working with your group make a list of at least three devices that cause these waves.

3. Identify at least two devices in the classroom that emit these waves.

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