README- App 1 – Plotting MRM Log Files

This folder contains MATLAB scripts/functions for reading, parsing, and plotting scan and detection list data from an MRM-RET logfile. The two essential MATLAB files are:

readMrmRetLog.m :   contains a function that reads and parses the file into data structures.

plotMrmRetLog.m: shows how to used readMrmRetLog.m. This script prompts the user for a logfile name and plots a "waterfall" of the motion filtered scans with overplays of detections. It also plots detection amplitudes vs actual motion filtered amplitudes (detections saturate at 65535.

MRM_002.csv is provided as an example.

TLDR:
- Open MATLAB and cd to this directory
- Execute "plotMrmRetLog" in the MATLAB command window.
- Select "MRM_002.csv" when prompted.
- View waterfall and magnitude plots.
- Use RET-MRM to create your own logfile. Make sure to save motion filtered scans and detection lists.
- Repeat with your logfile