**Recording 1:**

The following tasks were performed for the following times.

Units are microVolts

1. Use First Data
   1. 1A
      1. Dominating frequencies for each behavior

Rest is dominated by all frequencies from 0 – 10Hz.

Clenching teeth is dominated by frequencies near zero. <1Hz and around 3Hz.

Tensing neck muscles is dominated by lower frequencies.

* + 1. Dominating Channel for each behavior
  1. Remove 60Hz noise without damaging the signal. Using superposition
  2. s
     1. How did removing 60Hz noise effect the signals?
     2. How long does it take the recorded signals to stabilized? Is this related to the filter/superposition?
  3. Use superposition on C3: C3.-[Cz, C4, Pz, Fz]
     1. Which artifacts get smaller vs larger?
     2. Explanation

1. Use second data
   1. Didn’t do this
   2. Record data
   3. Every 4 seconds Decide if Eyes are open or closed
   4. Power of spectrums.
   5. Statistics
   6. Conclusions
   7. Implement power-by-band in Simulink
      1. Instantaneous
      2. Compute band-power value with settable threshold?
         1. Display something when above threshold