Some info about the data:

The data consists of 4 columns, first one is flow (positive is inspiratorion by the subject), and then 3 columns of surface EMG (rectus abdominis, external oblique, and sternocledo) in uV. The subject (me) is a ‘fit’ (or so he thinks) man of 27 years, non smoking, no respiratory diseases. During these measurements I was breathing through an inspiratory threshold loading device set at 70% of my maximal Pdi. If I remember correctly, I did not develop fatigue during these measurements when we checked it with magnetic twitches.

The SCM shows most clear inspiratory activity, but the activity it is of lower magnitude meaning the EKG is a disturbance that requires filtering. Im afraid that I did not collect a separate EKG recording for easy filtering. The expiratory muscles show a much more complicated recruitment pattern (end-expiratory activity lasting till early inspiratory) but they require less EKG filtering.

Also important: sampling frequency was 2000 hz

The amplifiers that I use to record data contain hardware filters that remove the 50-60 Hz frequencies (electricity net). The amplifiers also include a 5000 Hz low pass filter if I recall correctly, but that it likely not very relevant. Other than that, it is raw data!