
```
f = filesep;
```

```
%USER modify everything below here
```

Specific to the computer being used

```
%DMD
```

```
%server_rootpath = 'Z:\';
```

```
%Dual scope
```

```
%server_rootpath = '\\engnas.bu.edu\research\eng_research_handata\';
```

```
% Maingear office computer
```

```
server_rootpath = '/home/pierfier/handata_server/';
```

```
% Folder location of all the saved and aligned data
```

```
data_path = [server_rootpath 'EricLowet' f 'DBS' f 'PV' f];
```

```
frame_exp = 1.2;
```

```
frame_freq = 1/(1.2*10^-3);
```

```
%USER END modification
```

```
% Scripts folder for performing data alignment and saving relevant  
data to mat files
```

```
addpath([server_rootpath 'Pierre Fabris' f 'Imaging Scripts'  
f 'sharedLabCode' f 'LFP_Trace_Alignment' ]);
```

```
addpath(genpath([server_rootpath 'EricLowet' f 'Scripts']));
```

```
matfile_names = dir([data_path '*.mat']);
```

```
matfile_names = {matfile_names.name};
```

```
% Loop through each FOV matfile
```

```
for i=1:length(matfile_names)  
    load([data_path matfile_names{i}]);
```

```
    figure('Position', [0, 0, 1000, 5000]);
```

```
    tiledlayout(length(unique(result.trial_vec)),
```

```
    1, 'TileSpacing', 'compact', 'Padding', 'compact');
```

```
    % Loop through each trial
```

```
    for ne=unique(result.trial_vec)
```

```
        %DEBUG
```

```
        traces_size = size(result.traces);
```

```
        v= result.traces(result.trial_vec==ne); %eb edited 20211111
```

```
        % v= result.traces(result.trial_vec==ne,3);%./
```

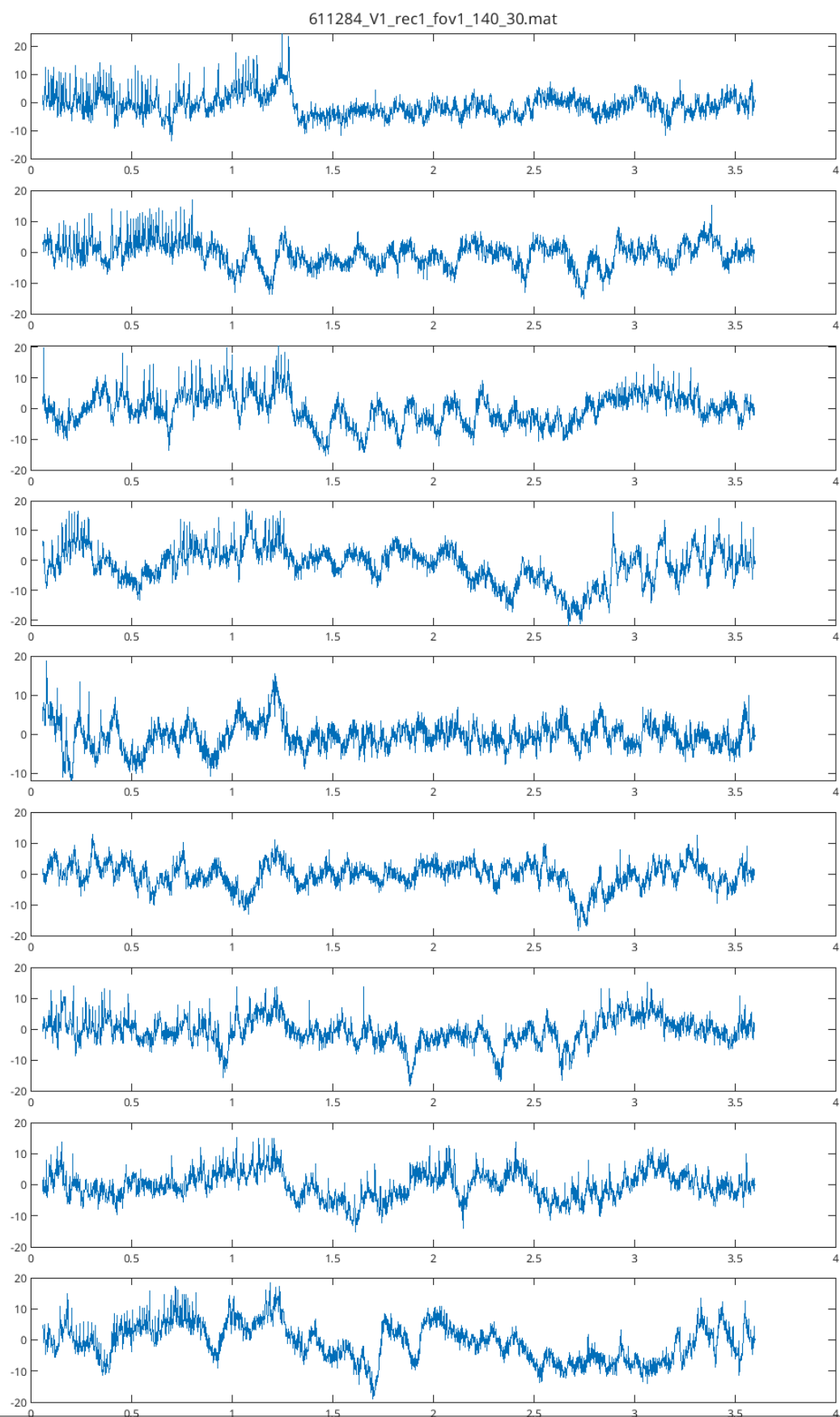
```
result.tracesB(result.trial_vec==ne)    ;
```

```
        v=v-fastsmooth(v,1400,1,1);
```

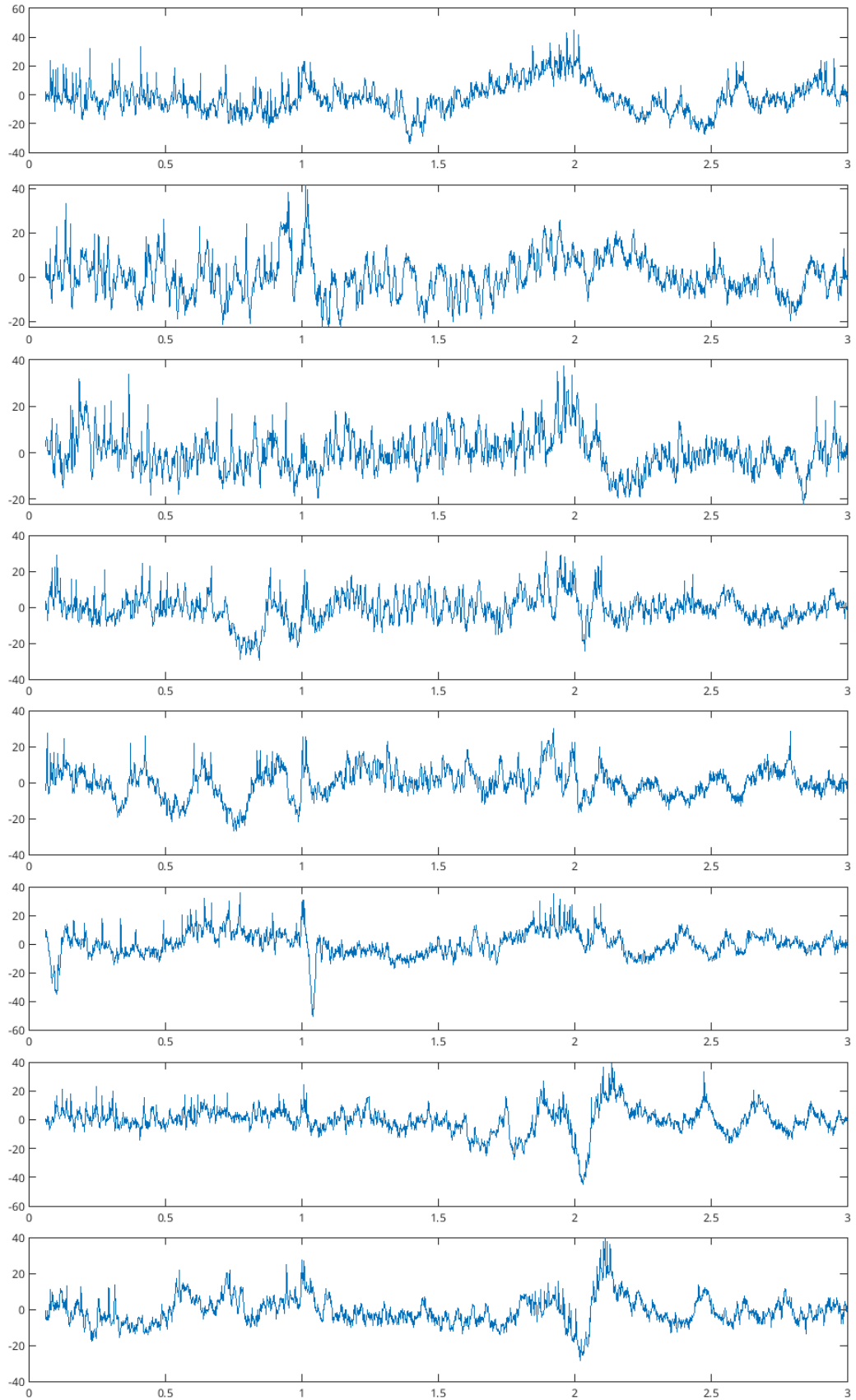
```
        %Dropping the first 50 frames, there appears to be artefacts
```

```
        v(1:50) = NaN;
```

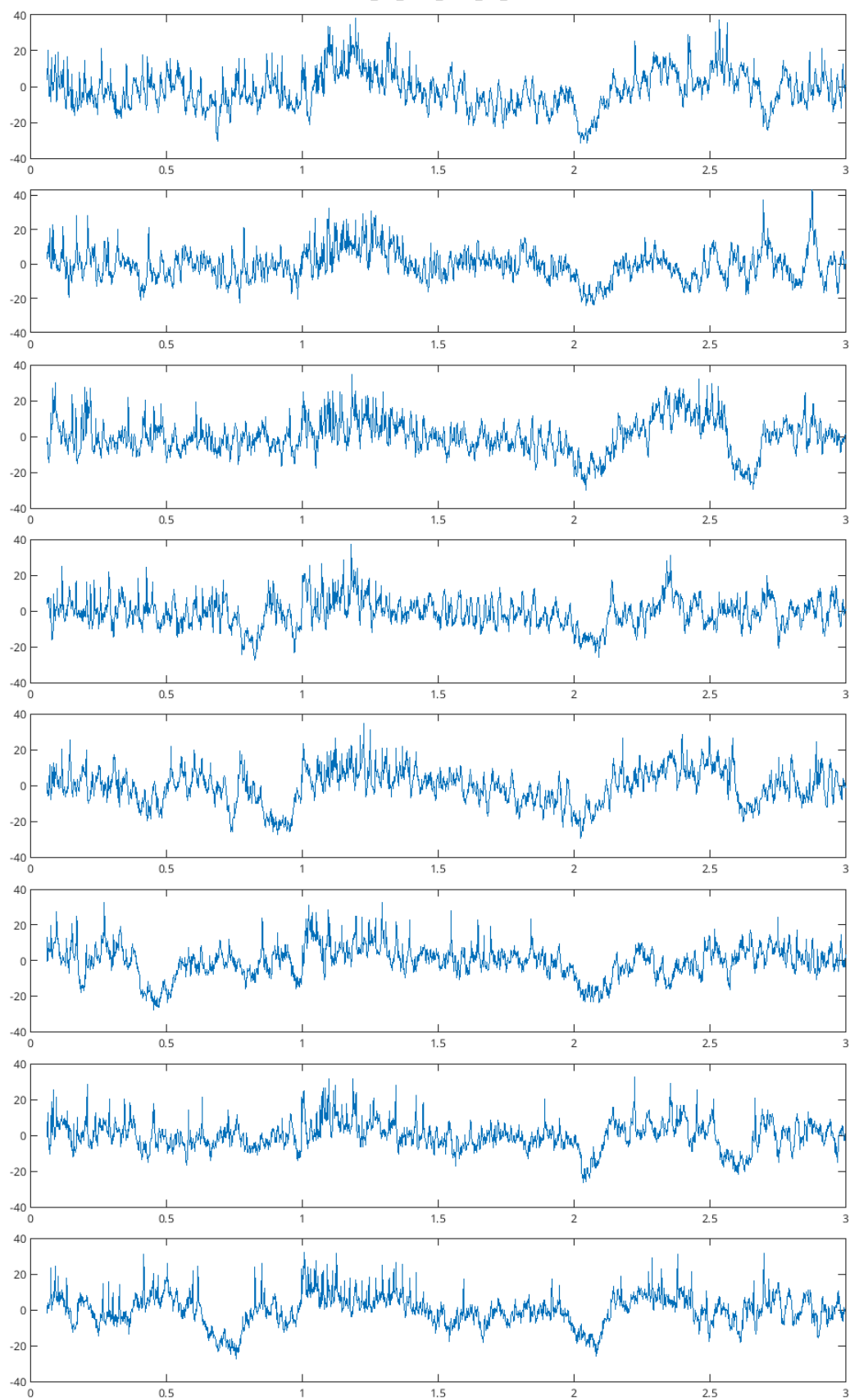
```
        nexttile;  
        plot([1:length(v)]/frame_freq, v);  
    end  
  
    % Set the title of the Figure  
    sgtitle(matfile_names{i}, 'Interpreter', 'none');  
end
```



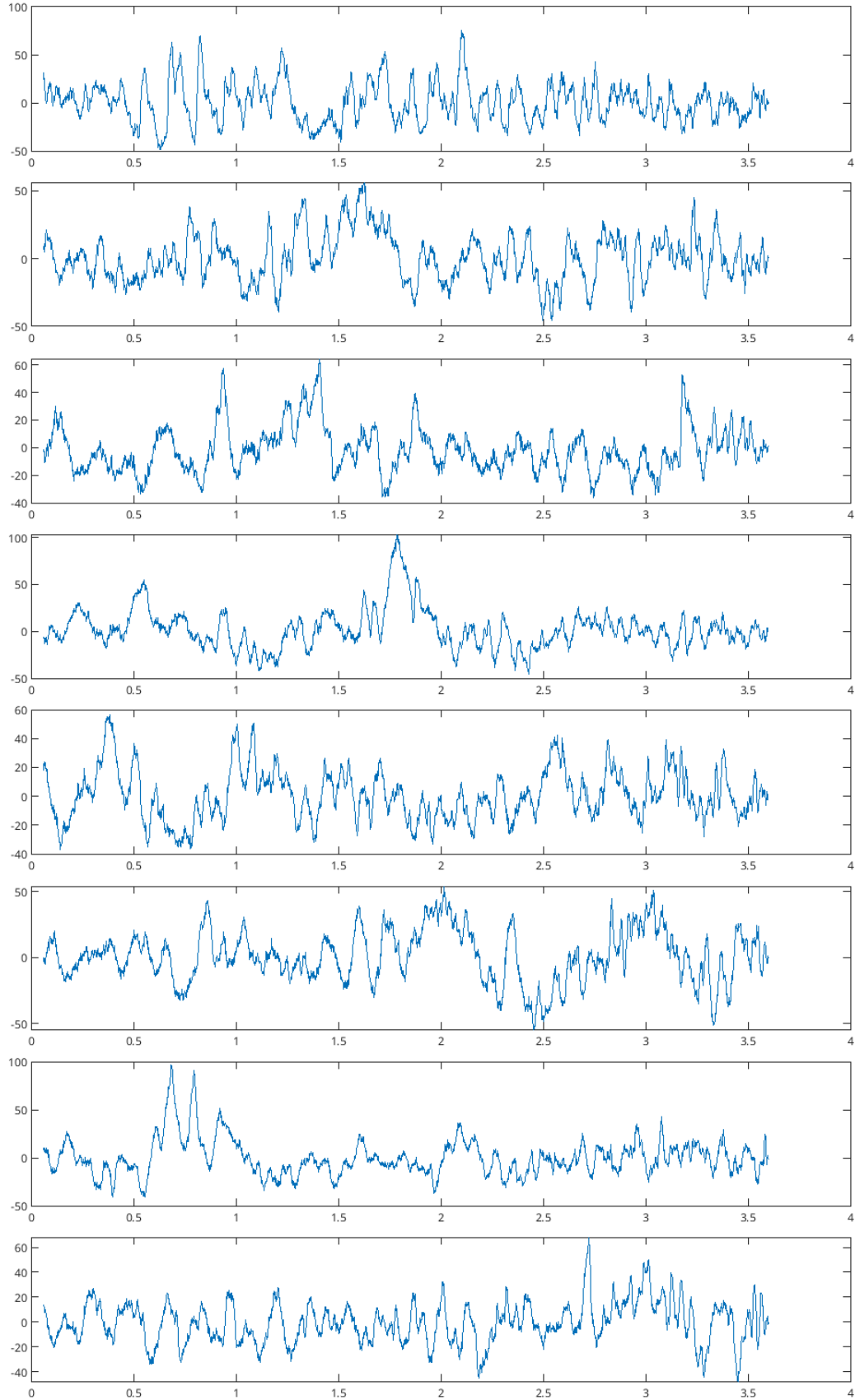
611284_V1_rec1_fov1_140_40.mat



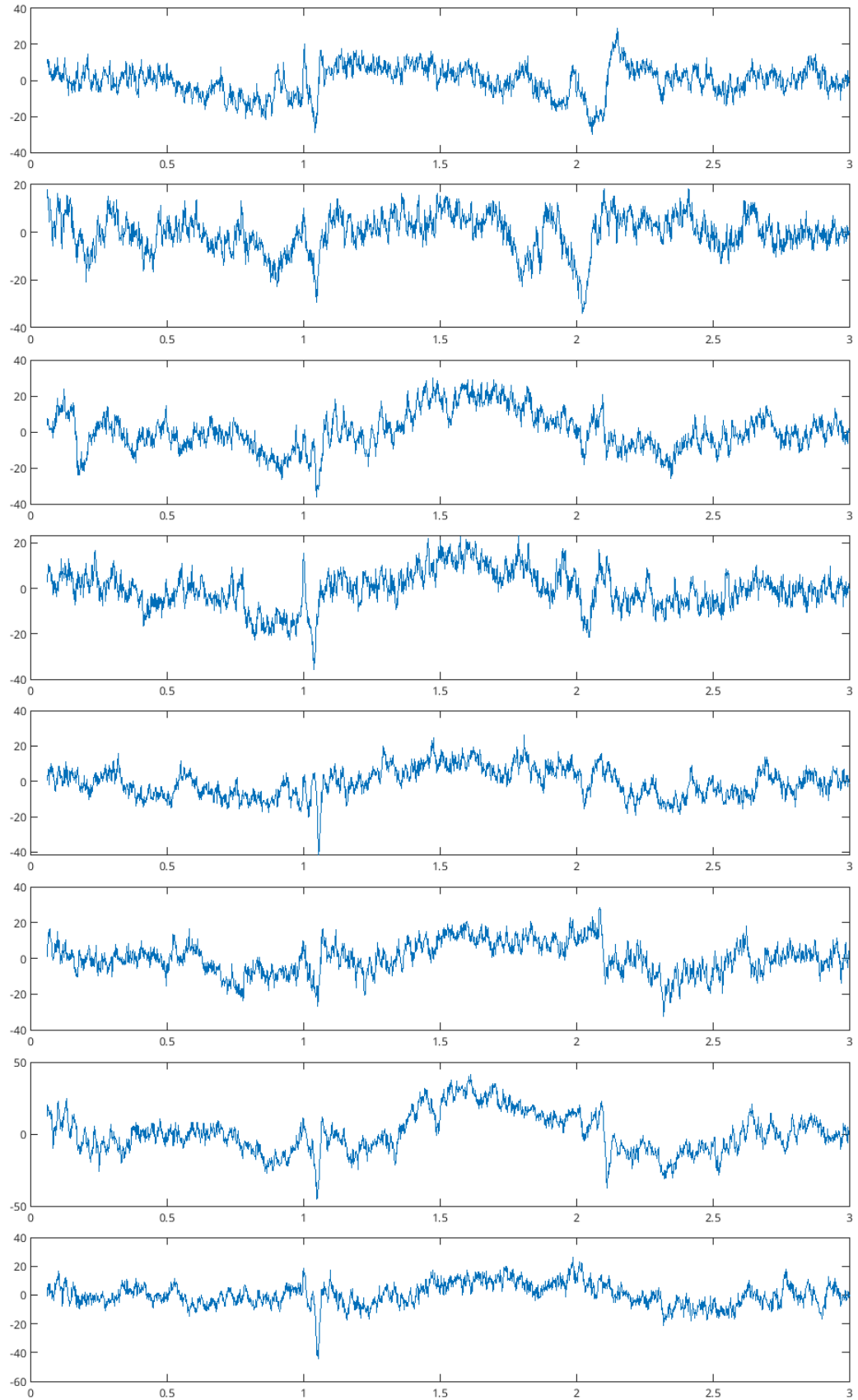
611284_V1_rec1_fov1_40_40.mat



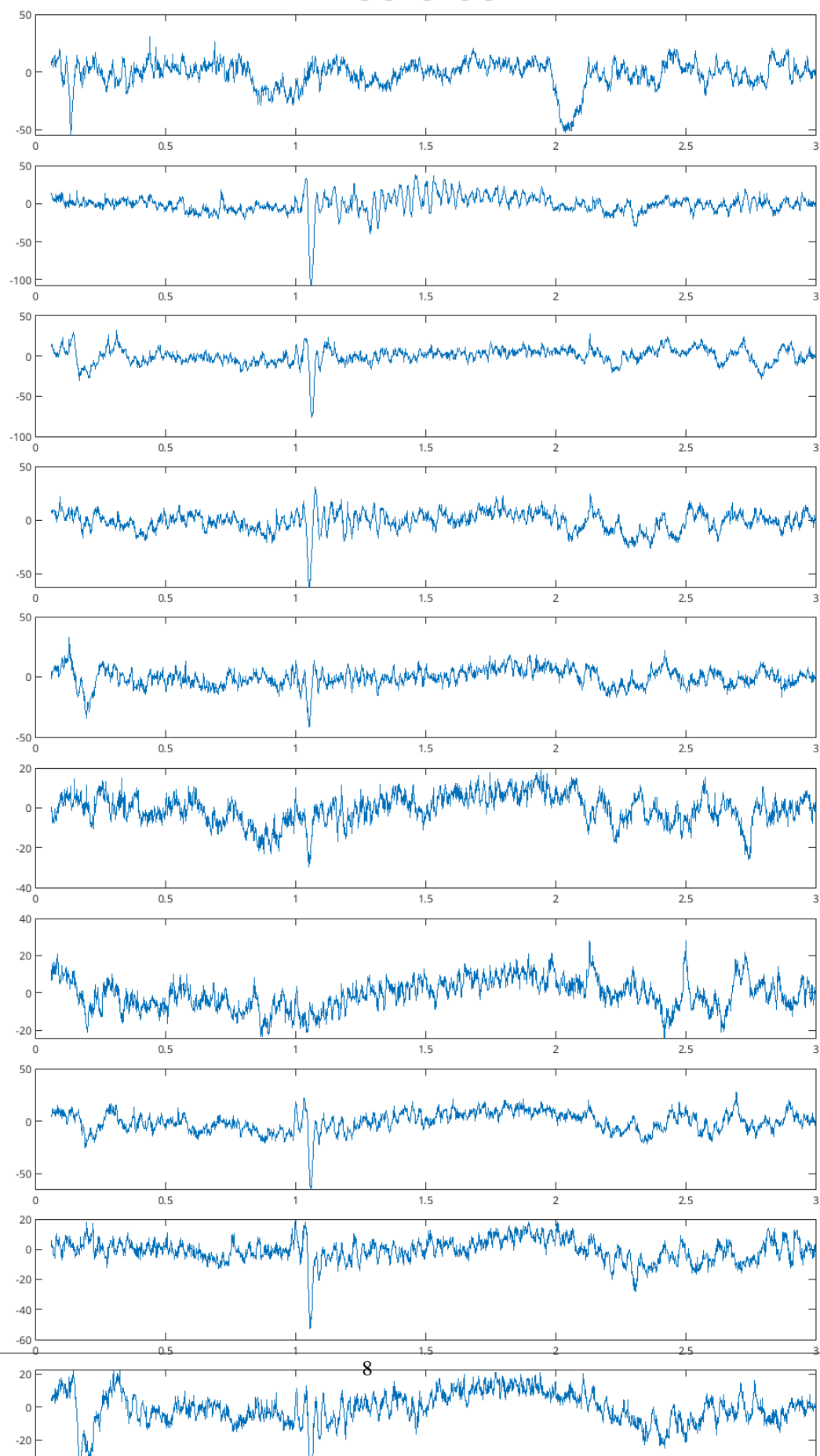
611284_V1_rec1_fov2_140_30.mat

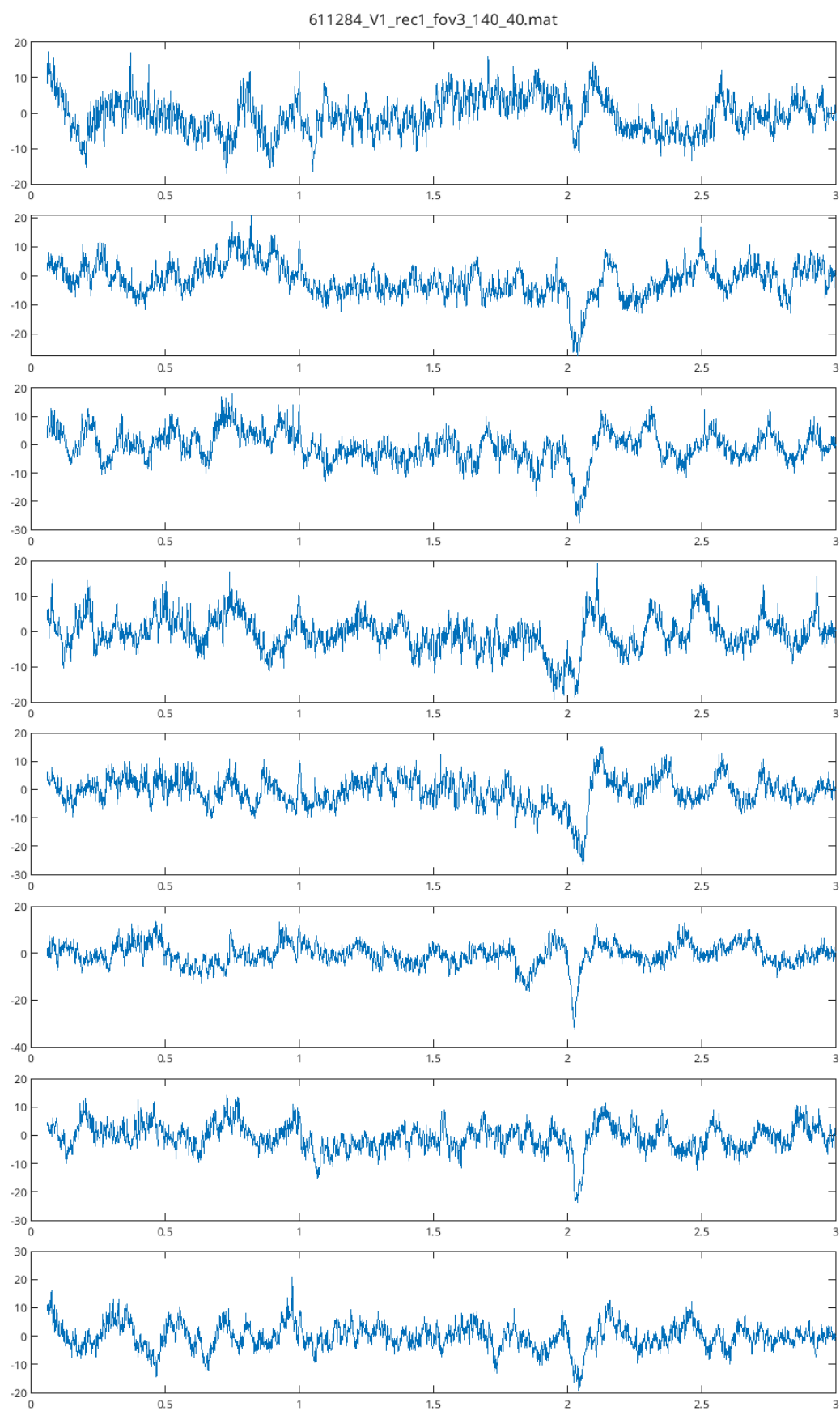


611284_V1_rec1_fov2_140_40.mat

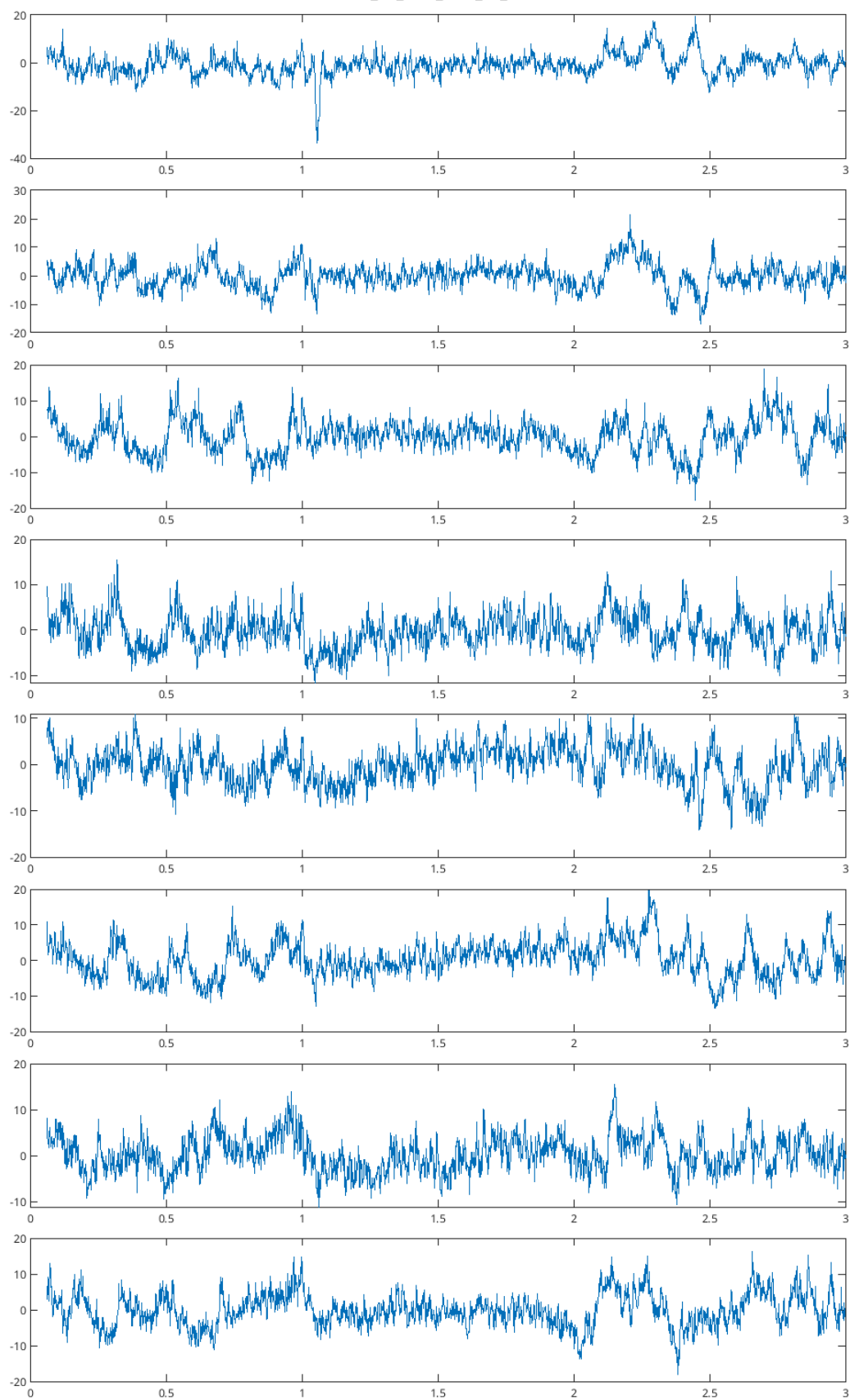


611284_V1_rec1_fov2_40_40.mat

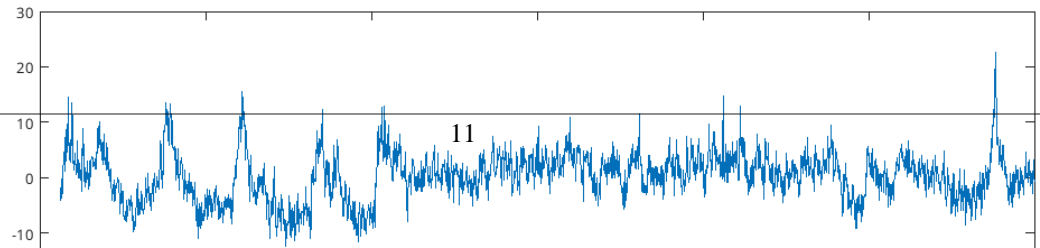
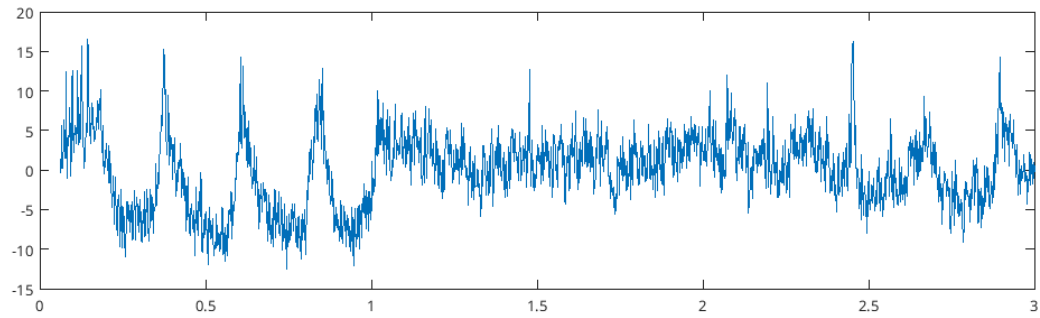
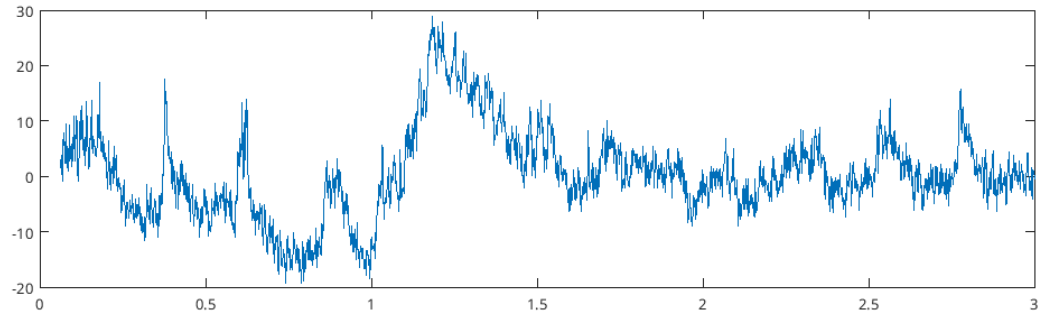
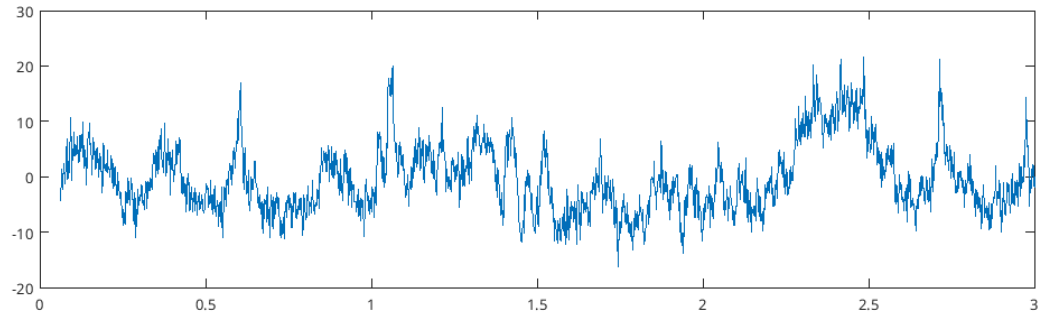
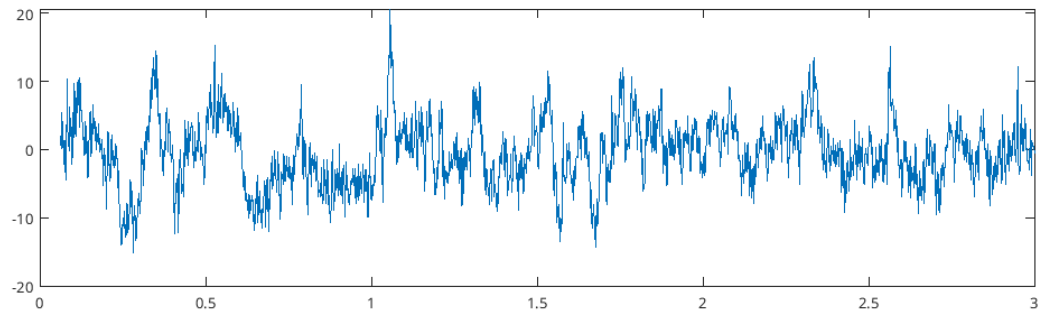
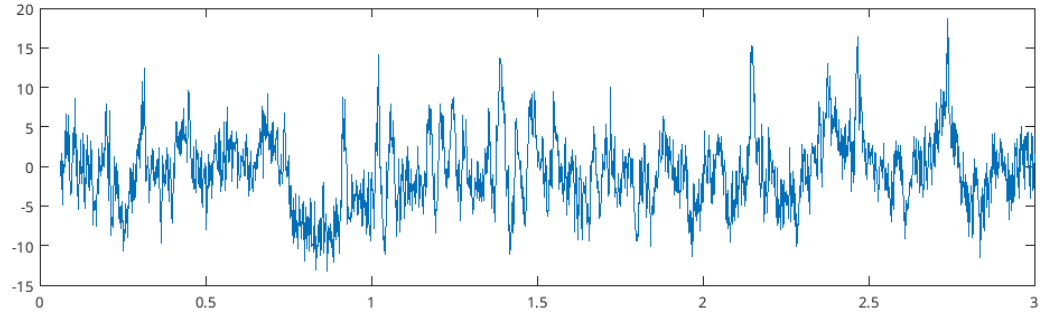




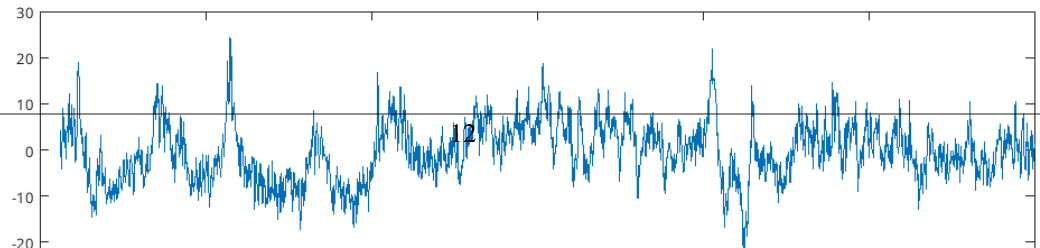
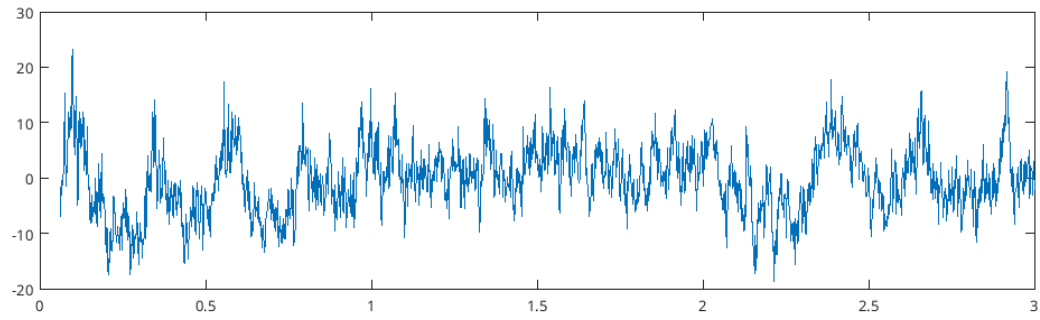
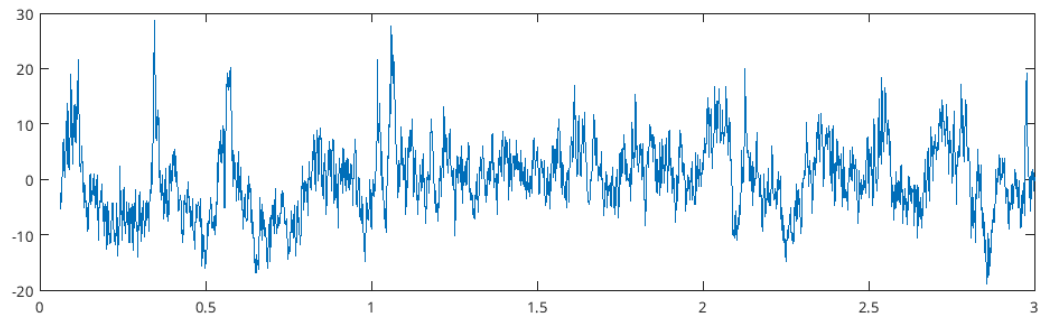
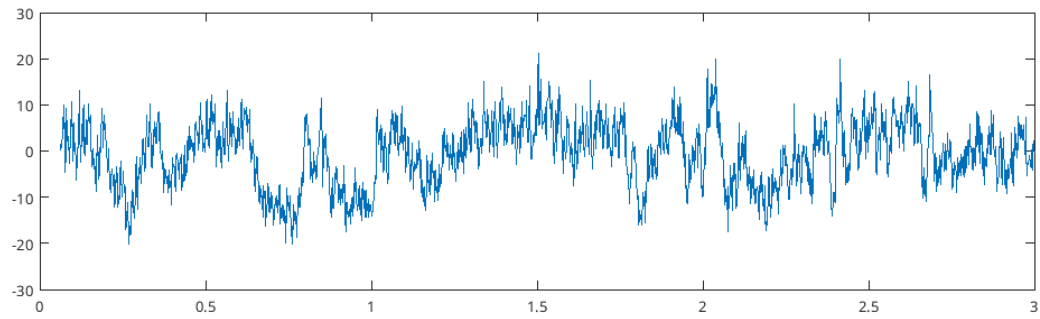
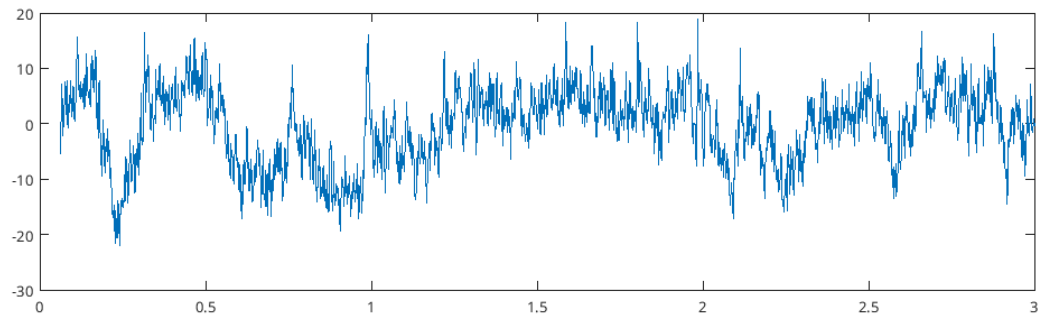
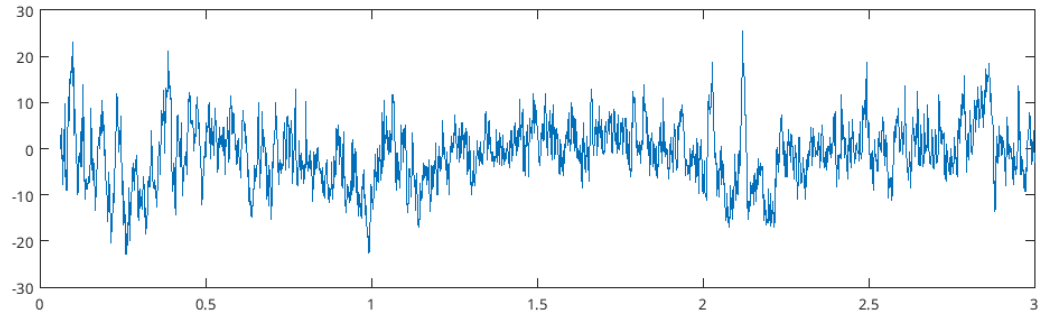
611284_V1_rec1_fov3_40_40.mat



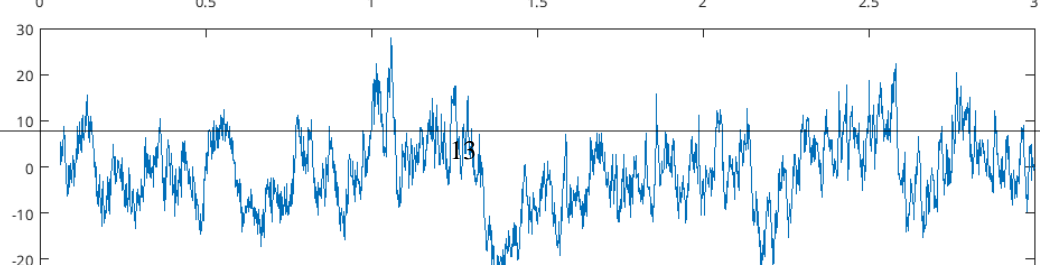
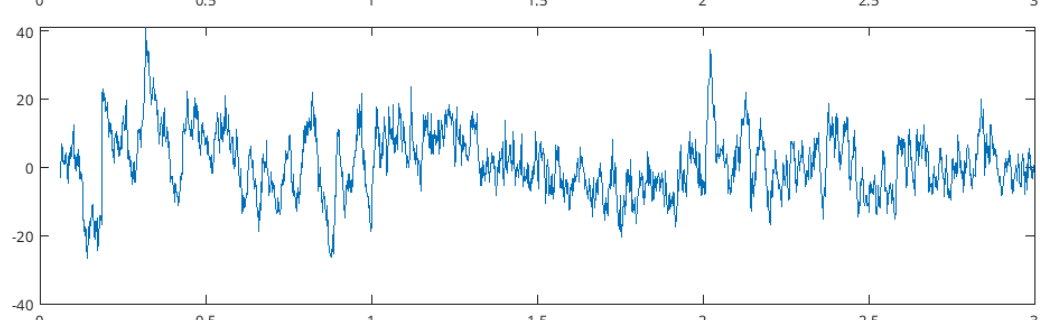
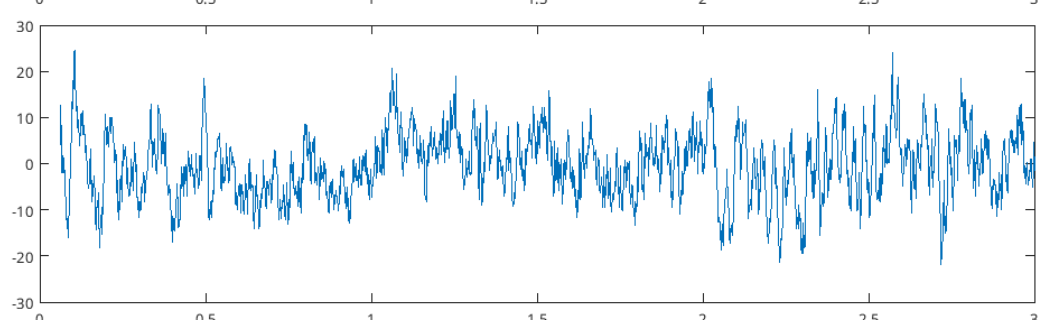
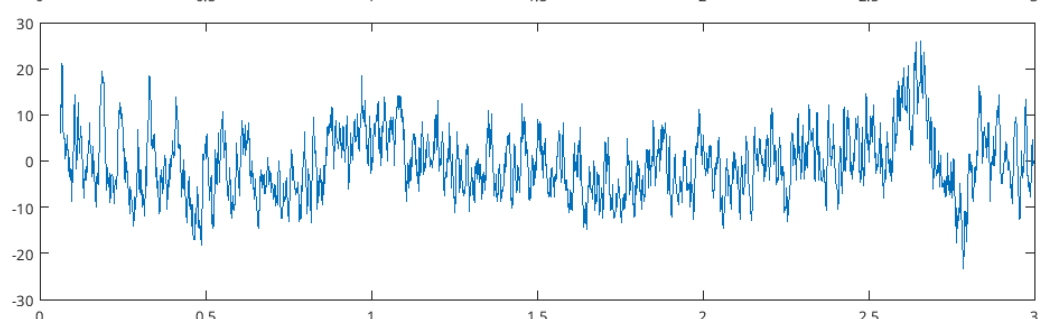
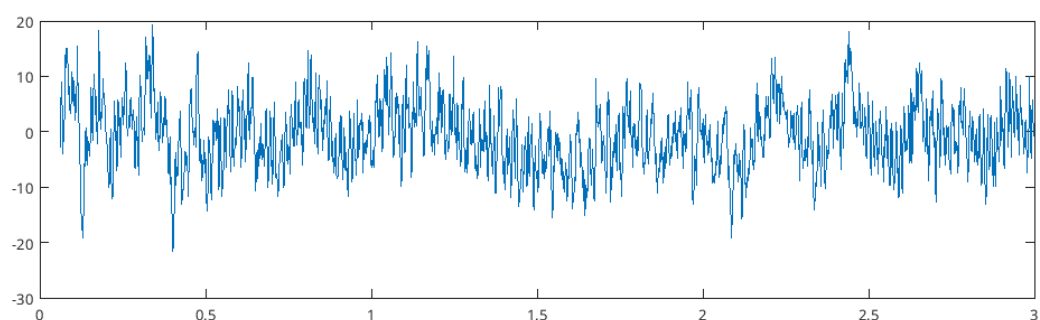
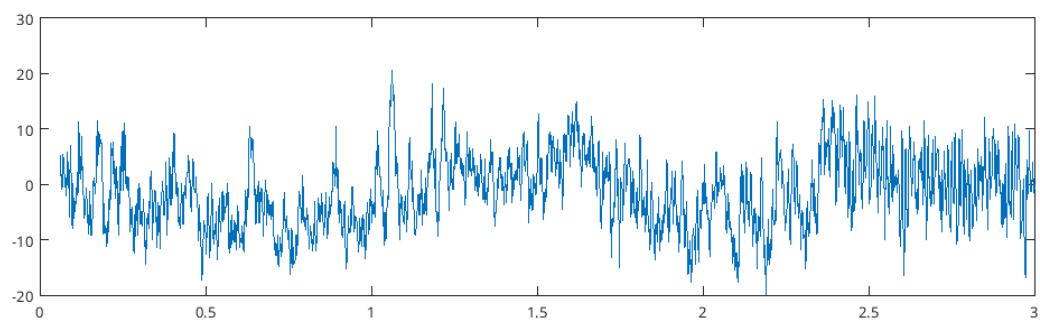
611284_V1_rec3_fov1_140_60.mat

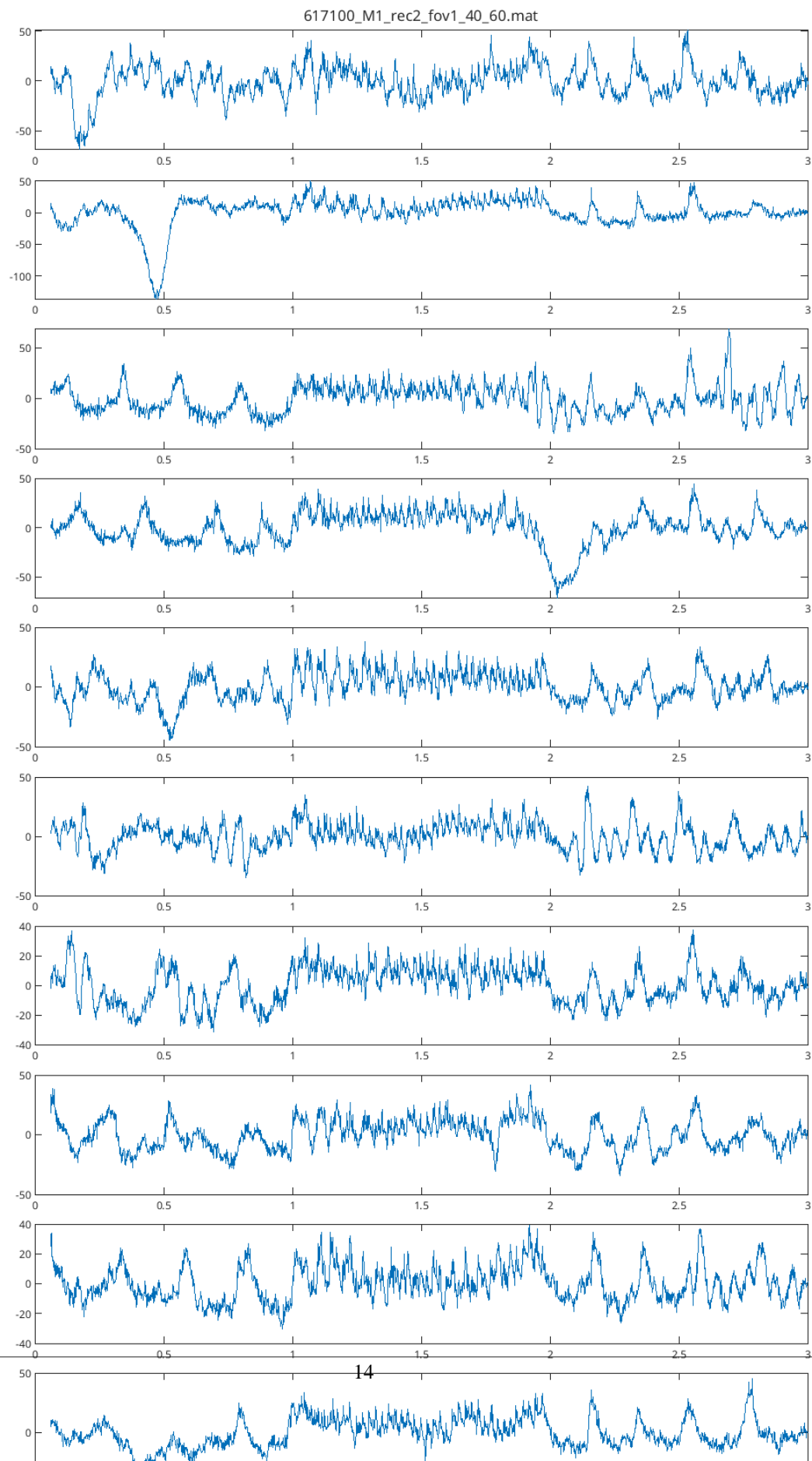


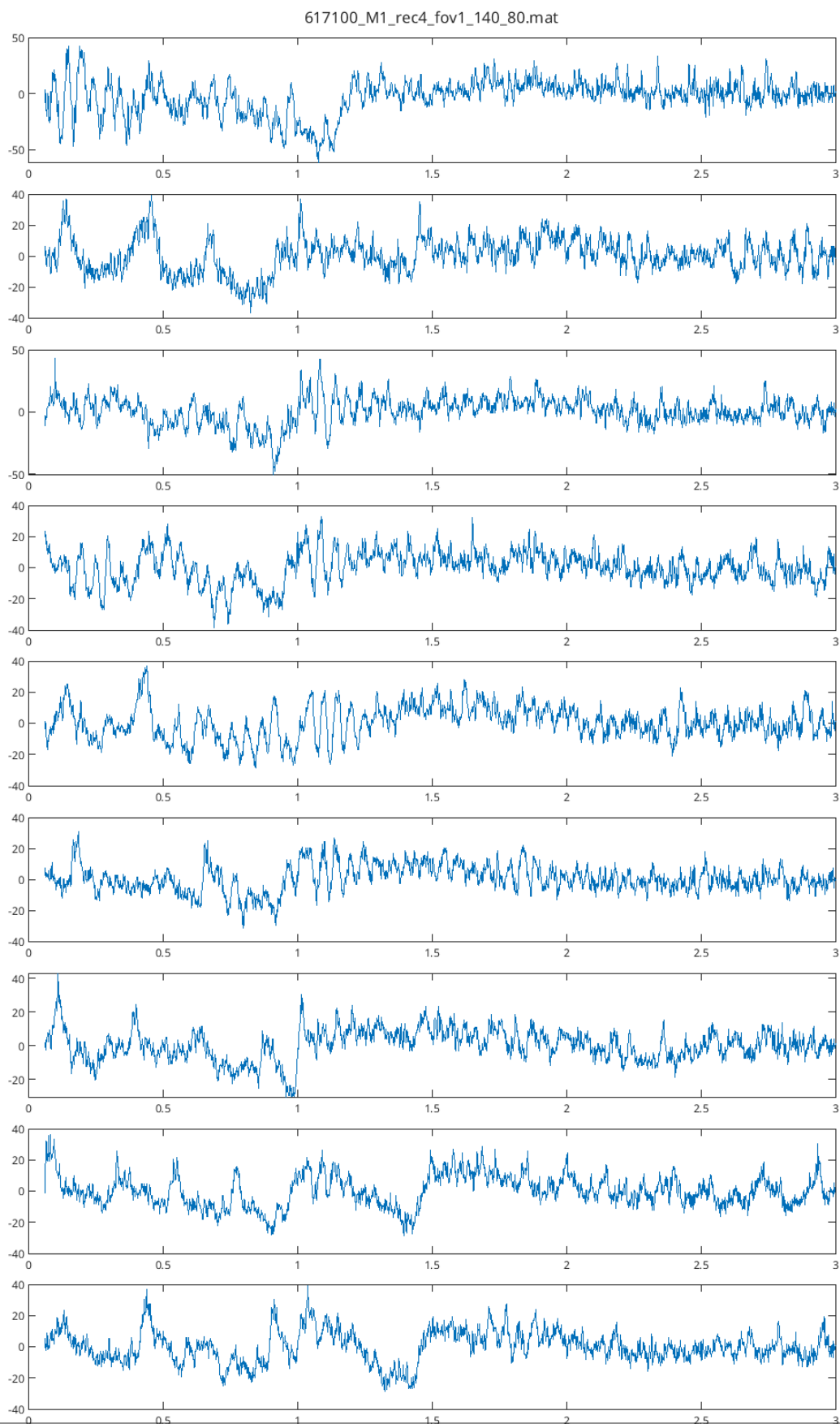
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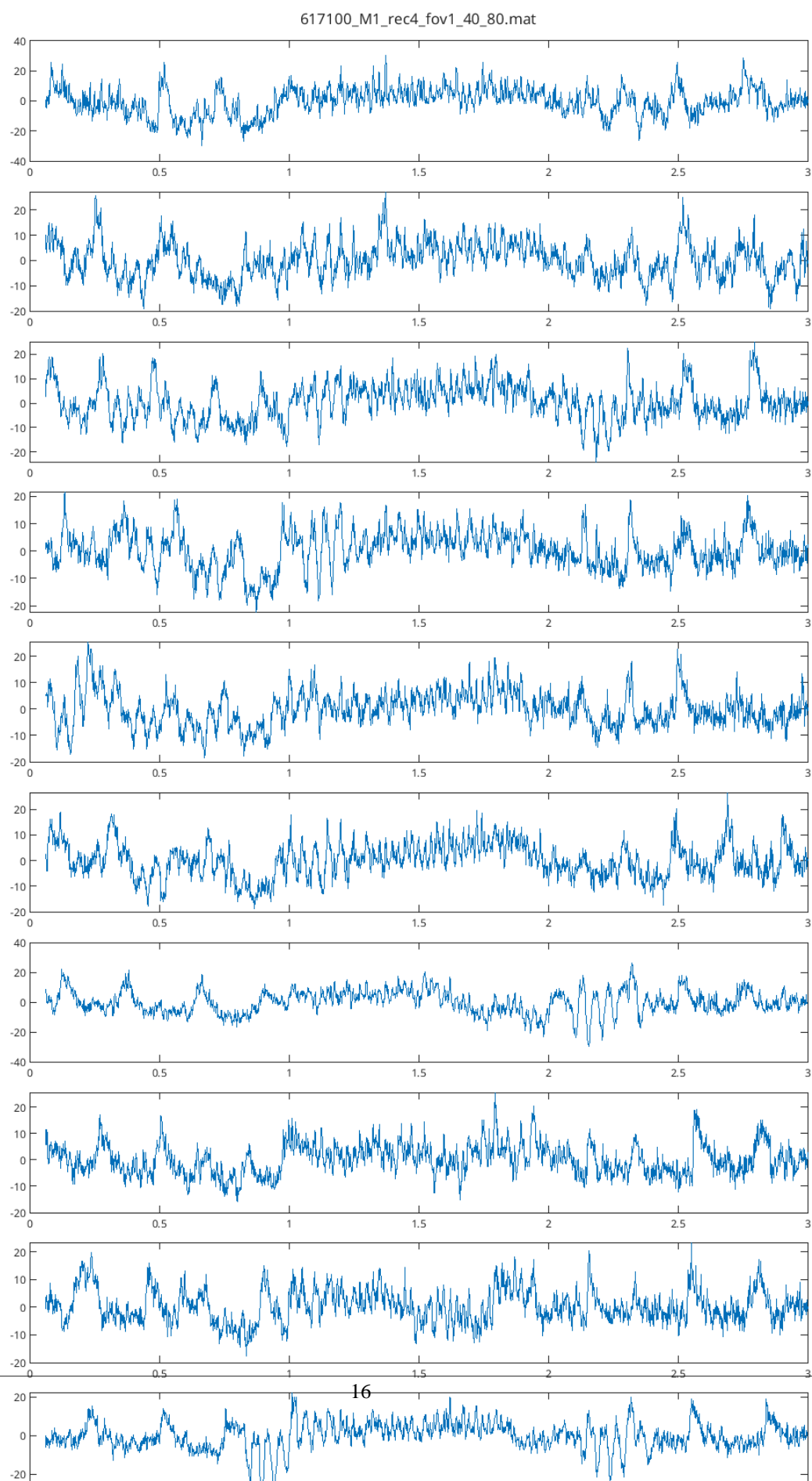


611284_V1_rec3_fov2_40_60.mat

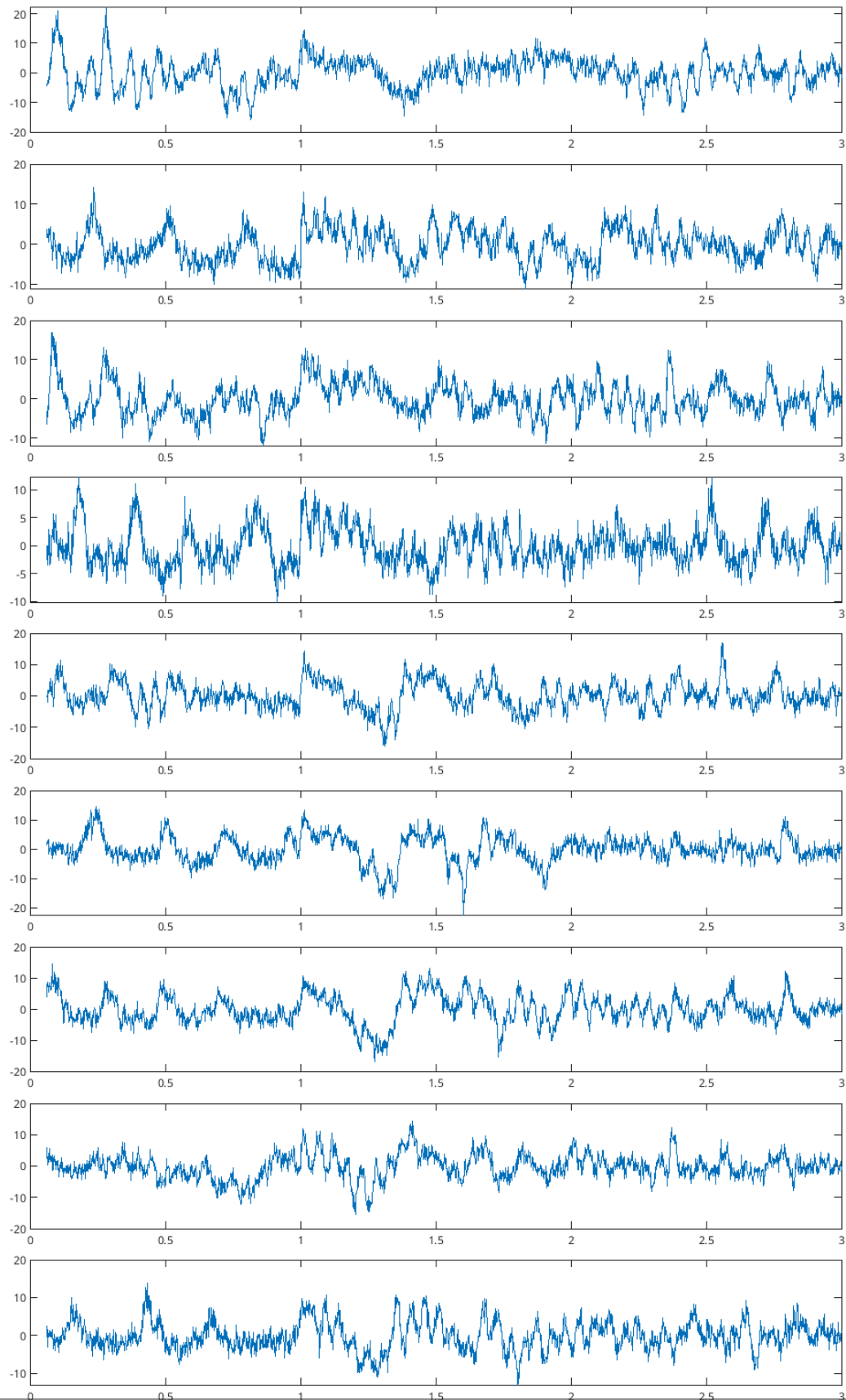




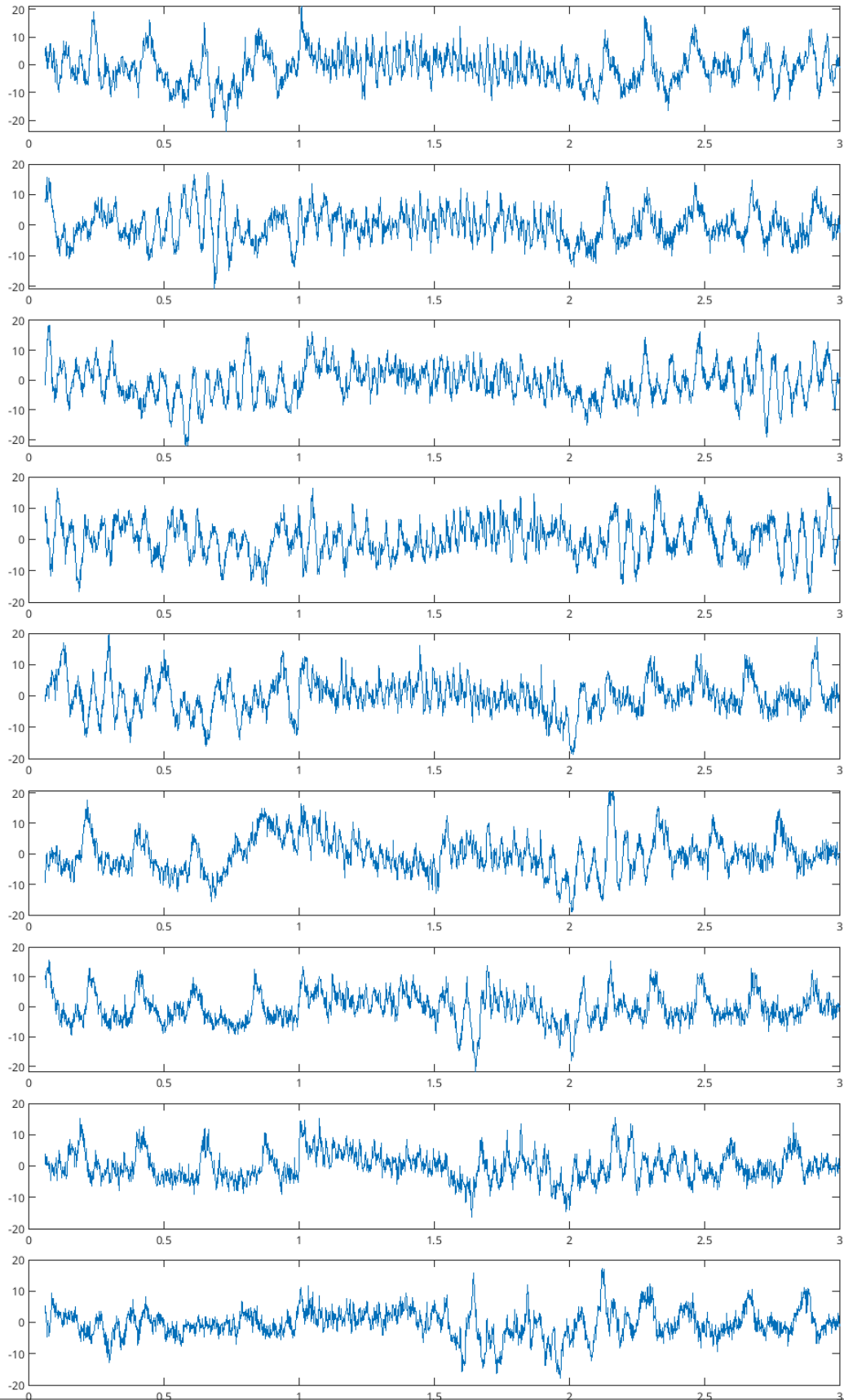


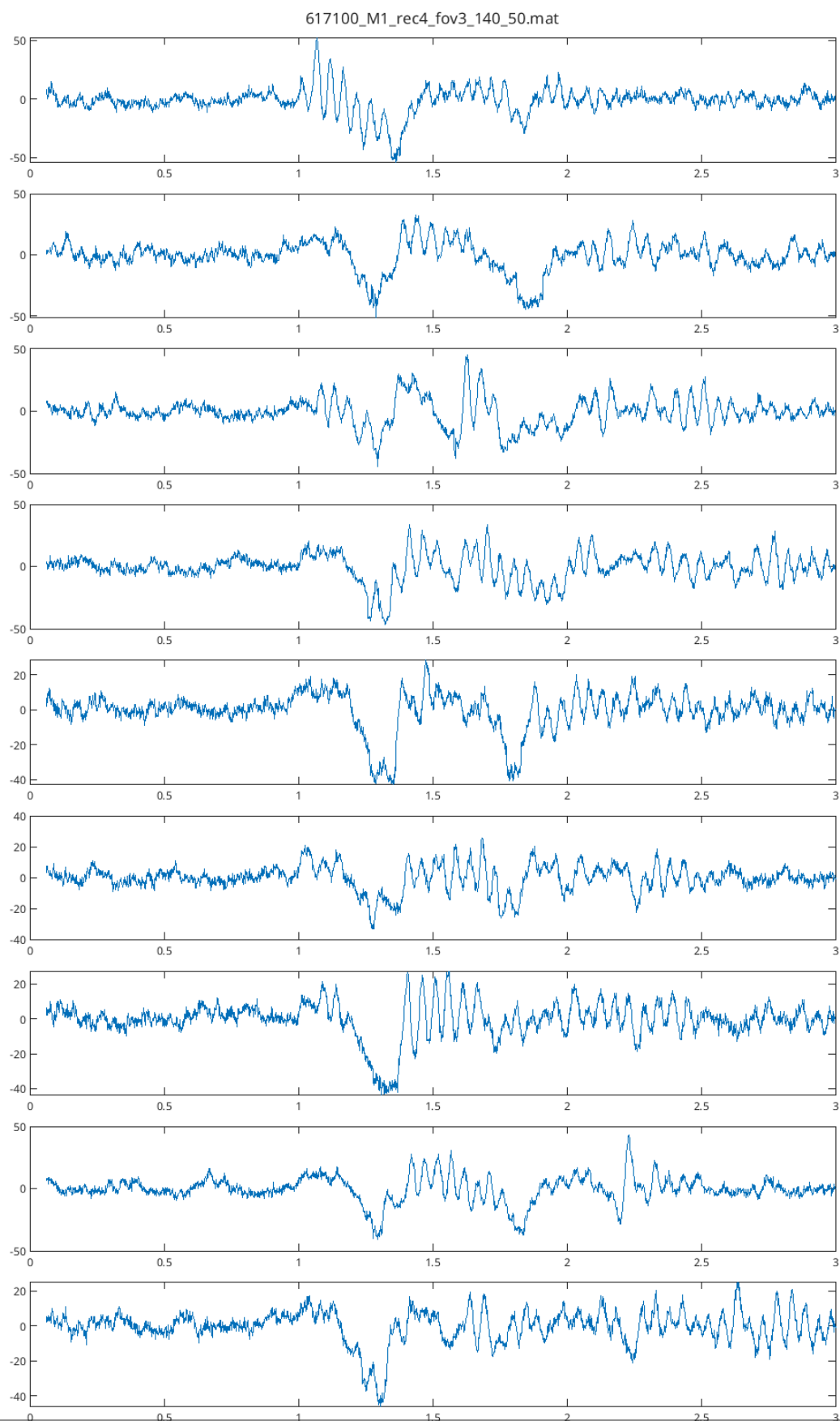


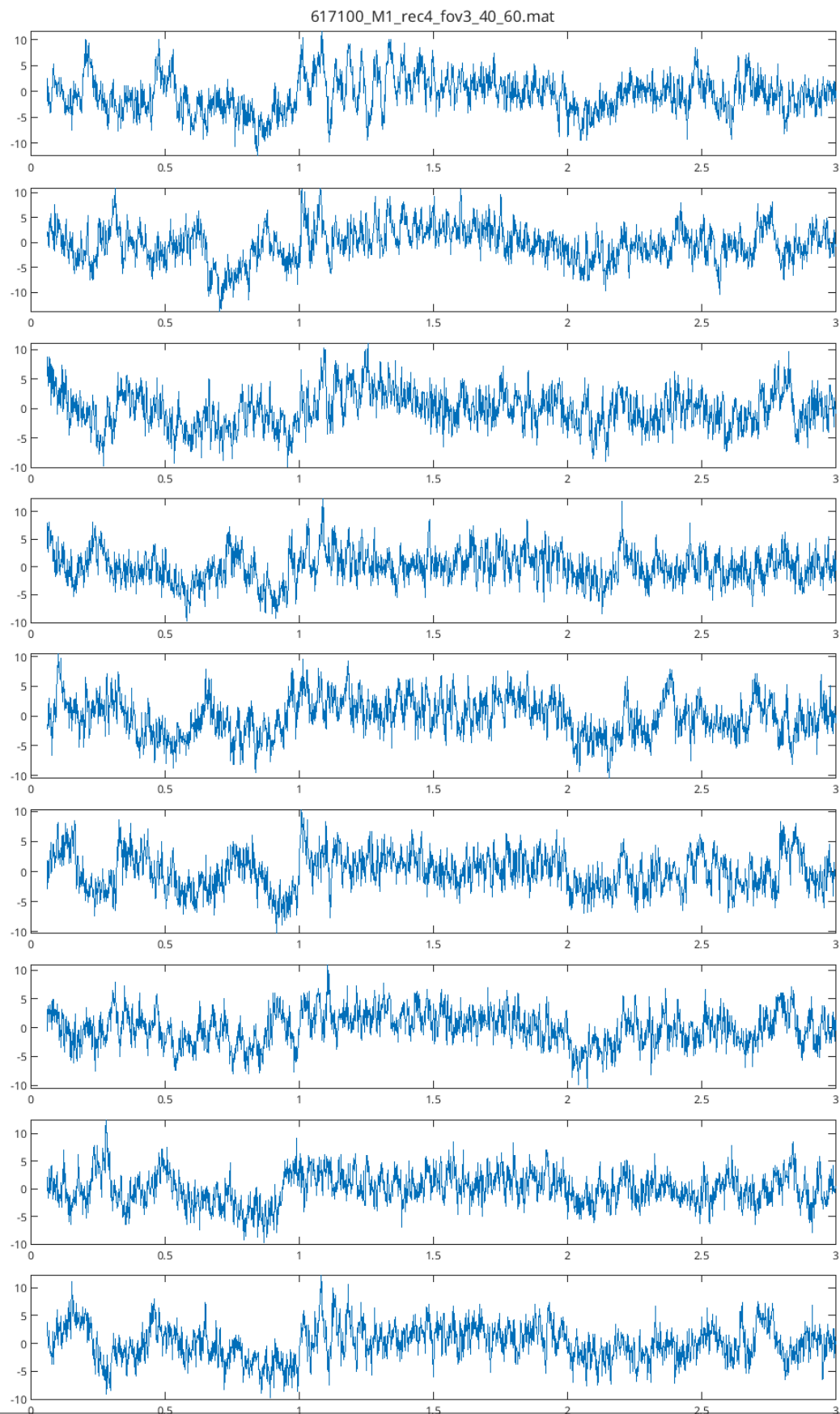
617100_M1_rec4_fov2_140_80.mat

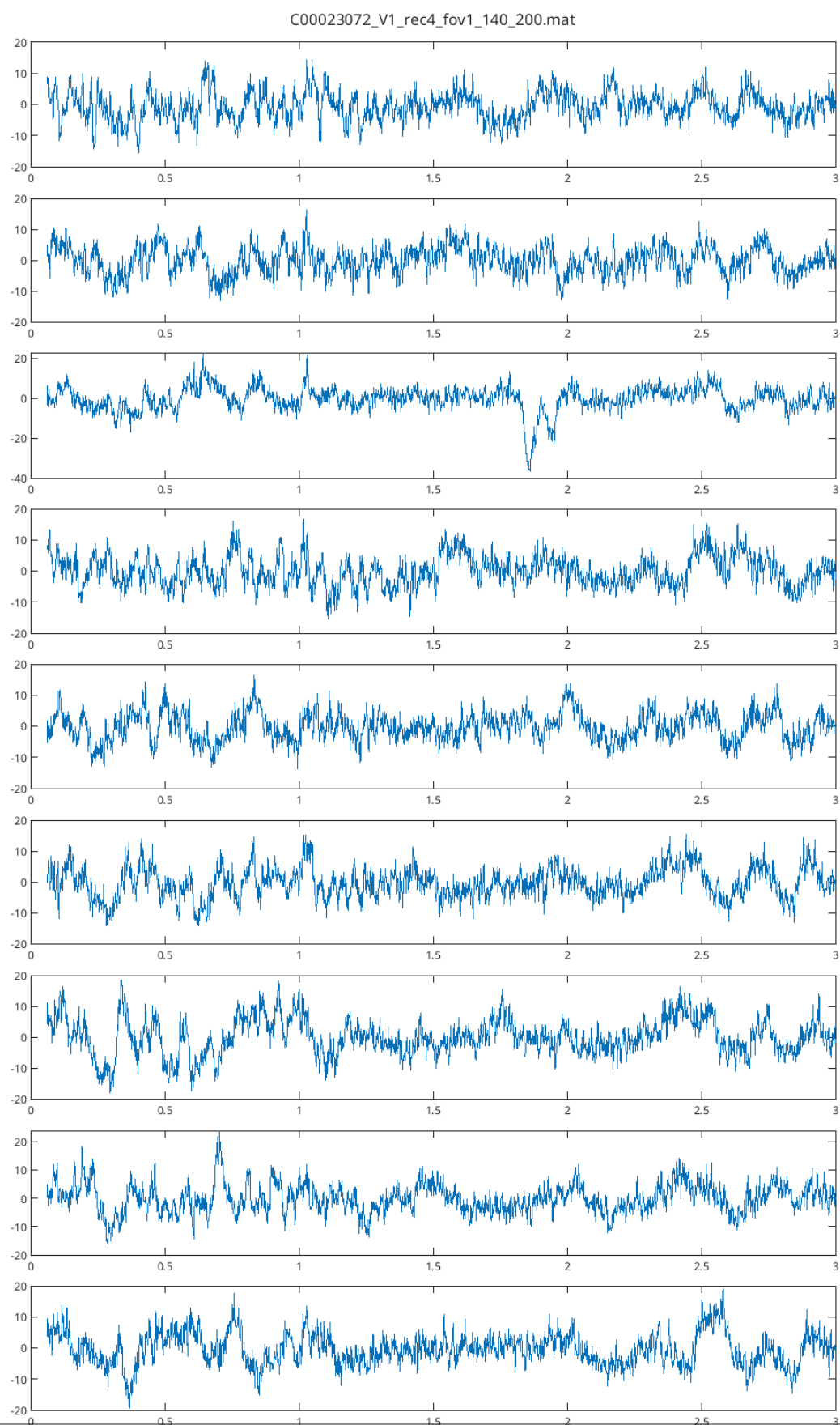


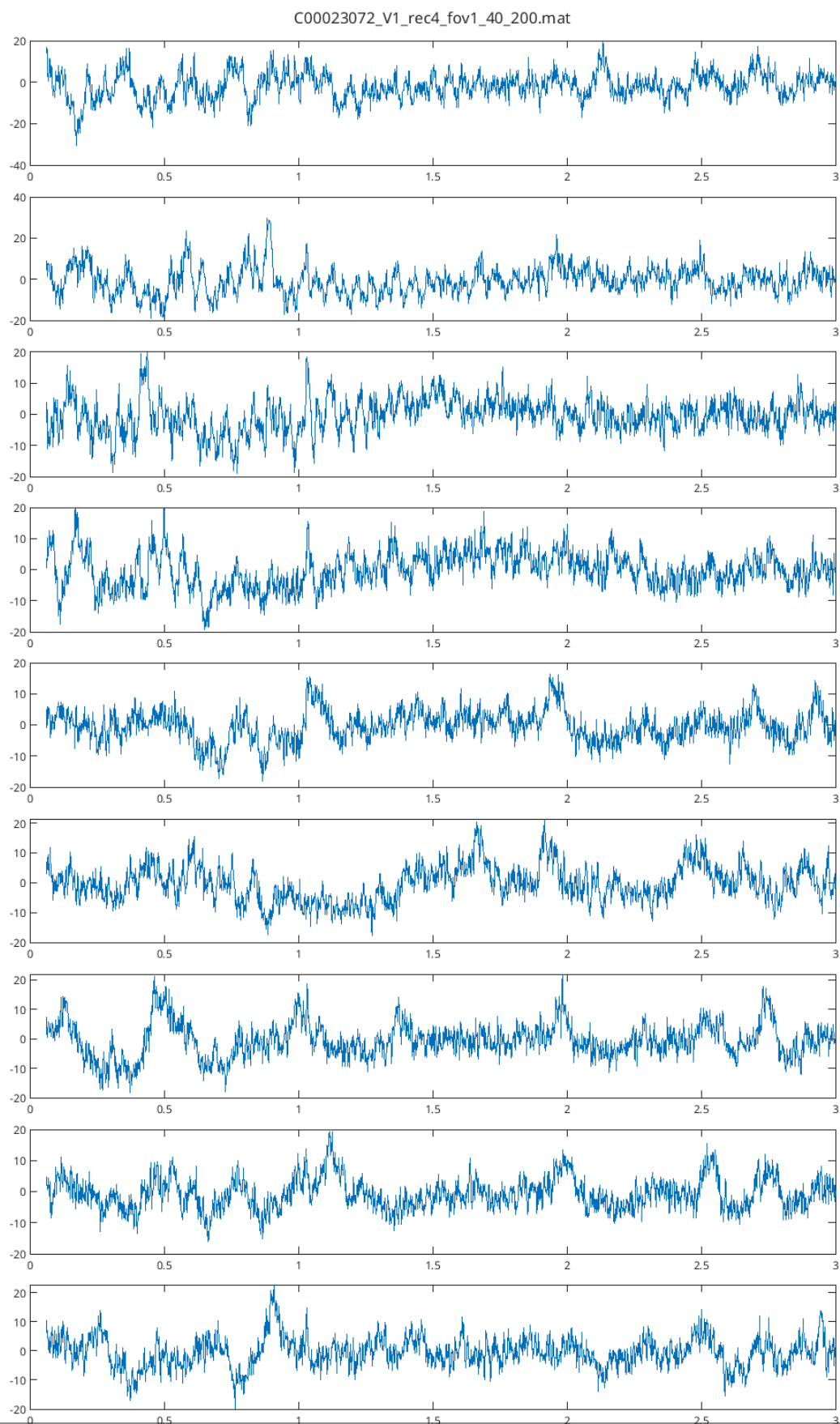
617100_M1_rec4_fov2_40_80.mat



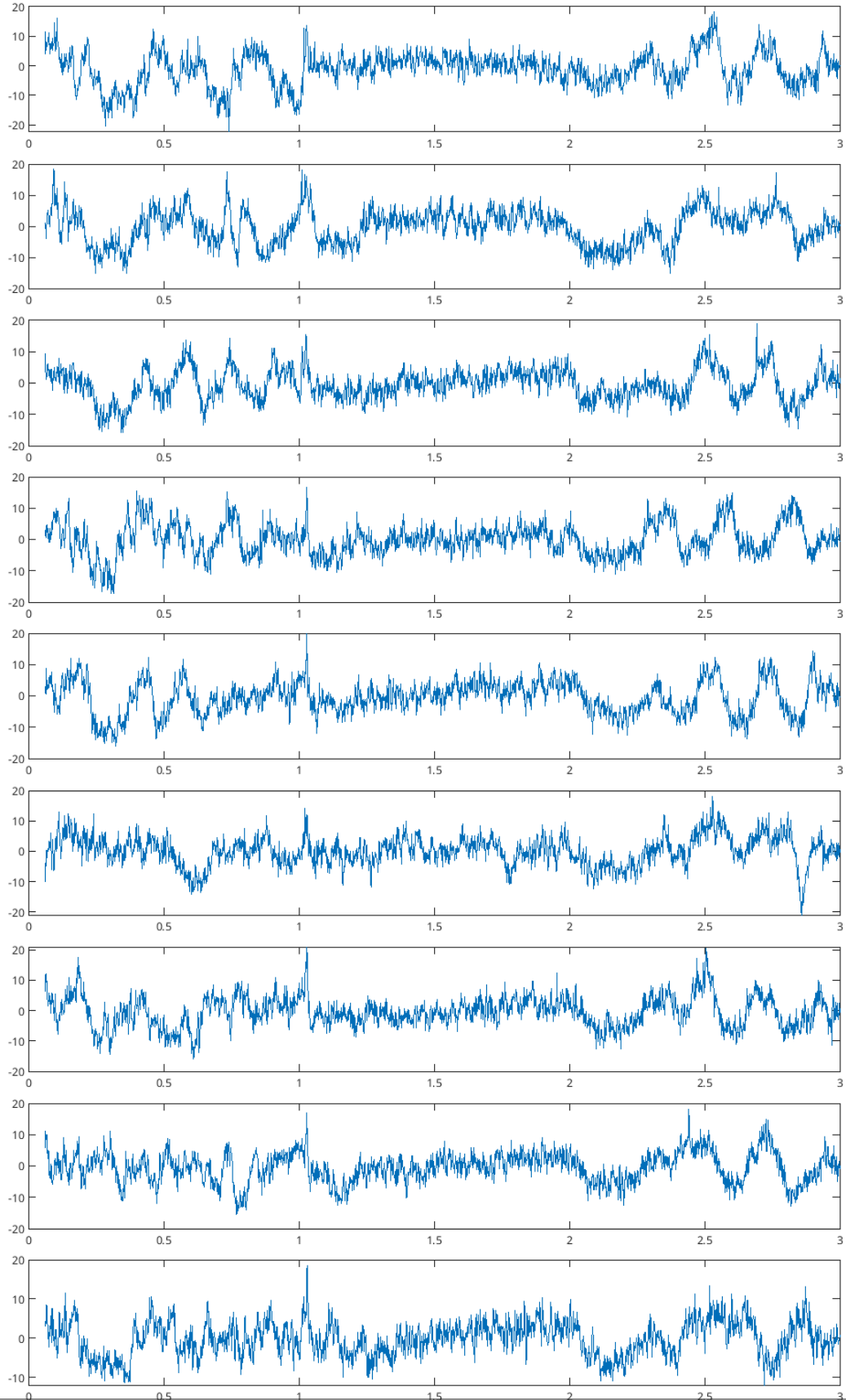


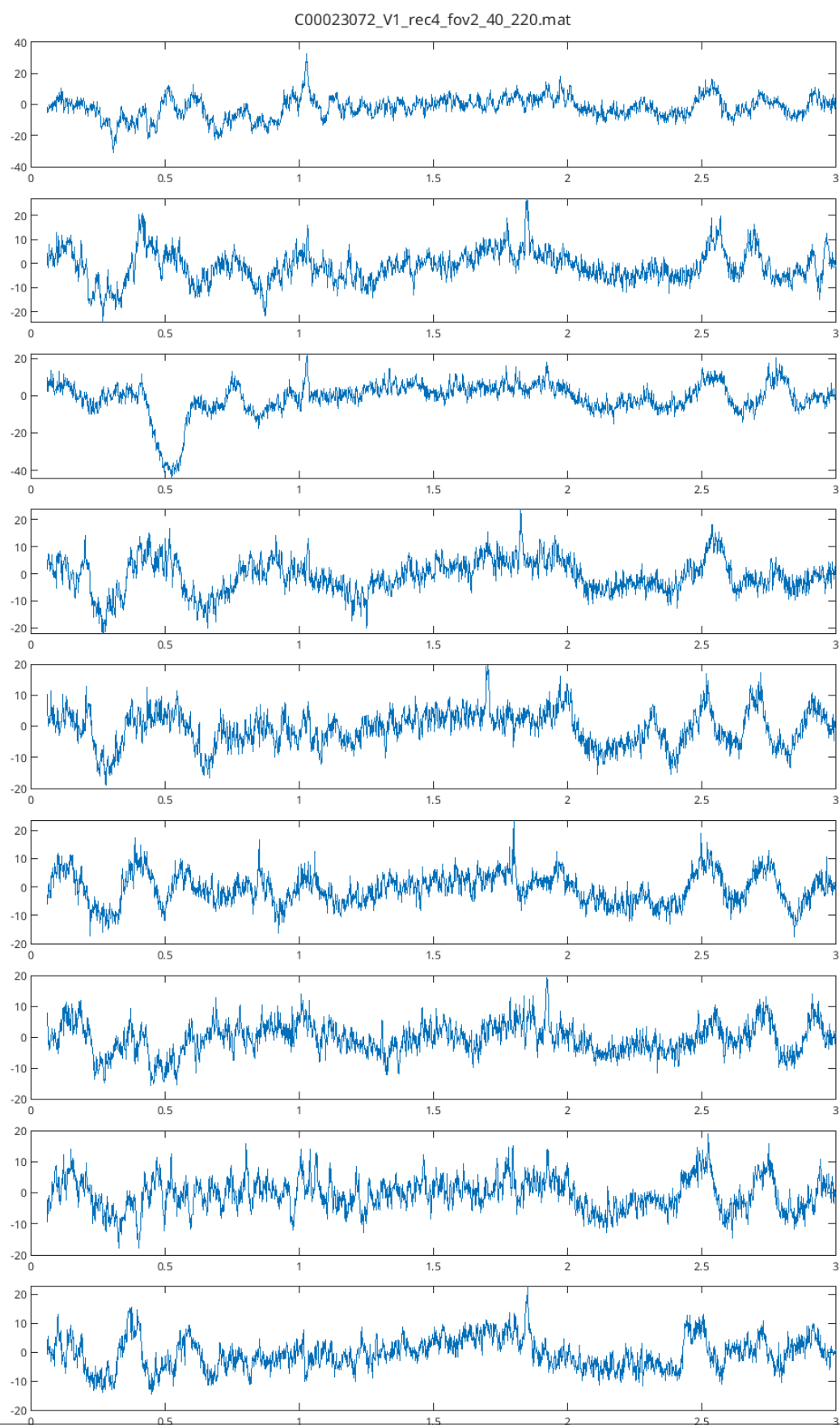




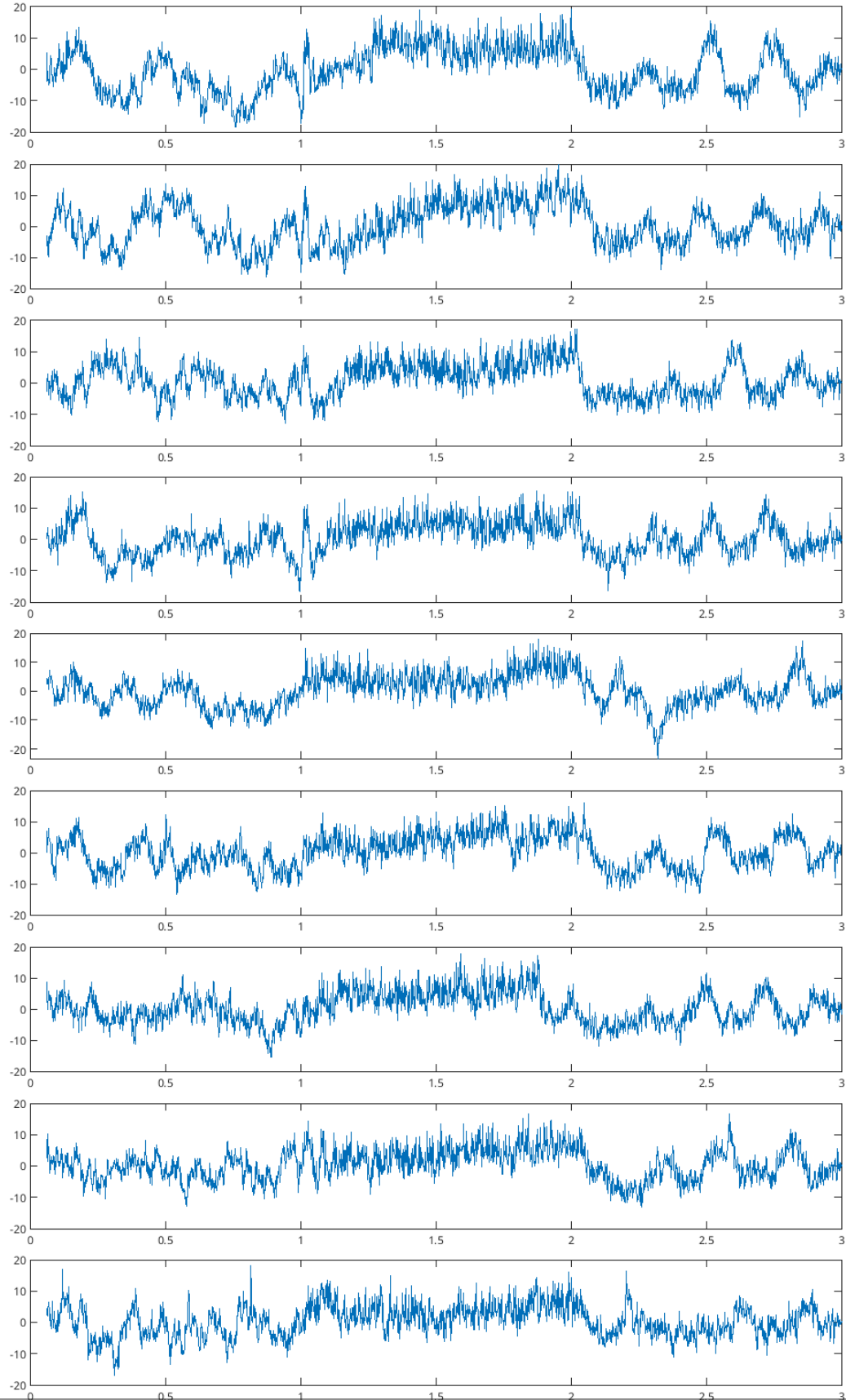


C00023072_V1_rec4_fov2_140_220.mat

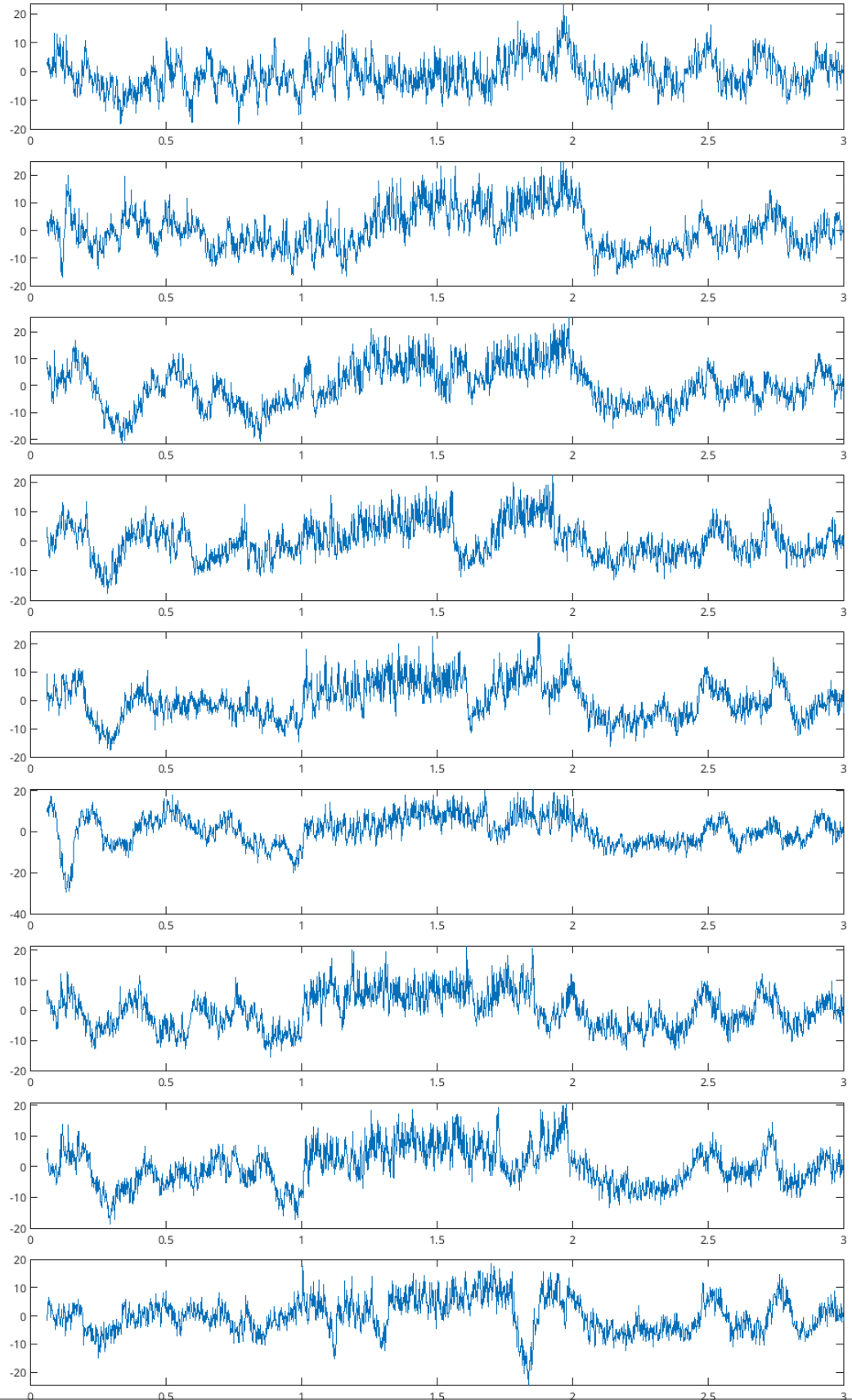




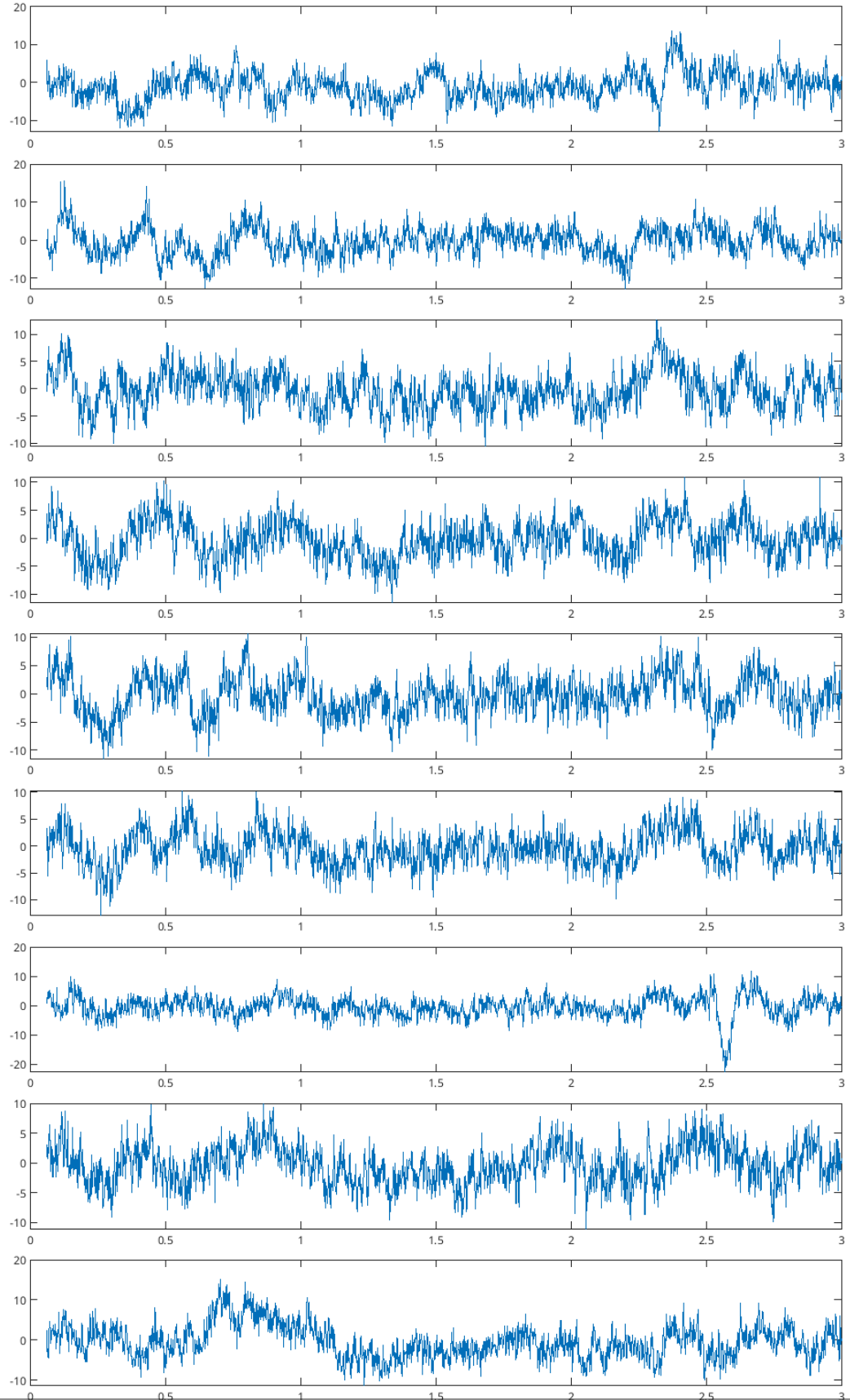
C00023072_V1_rec4_fov3_140_220.mat



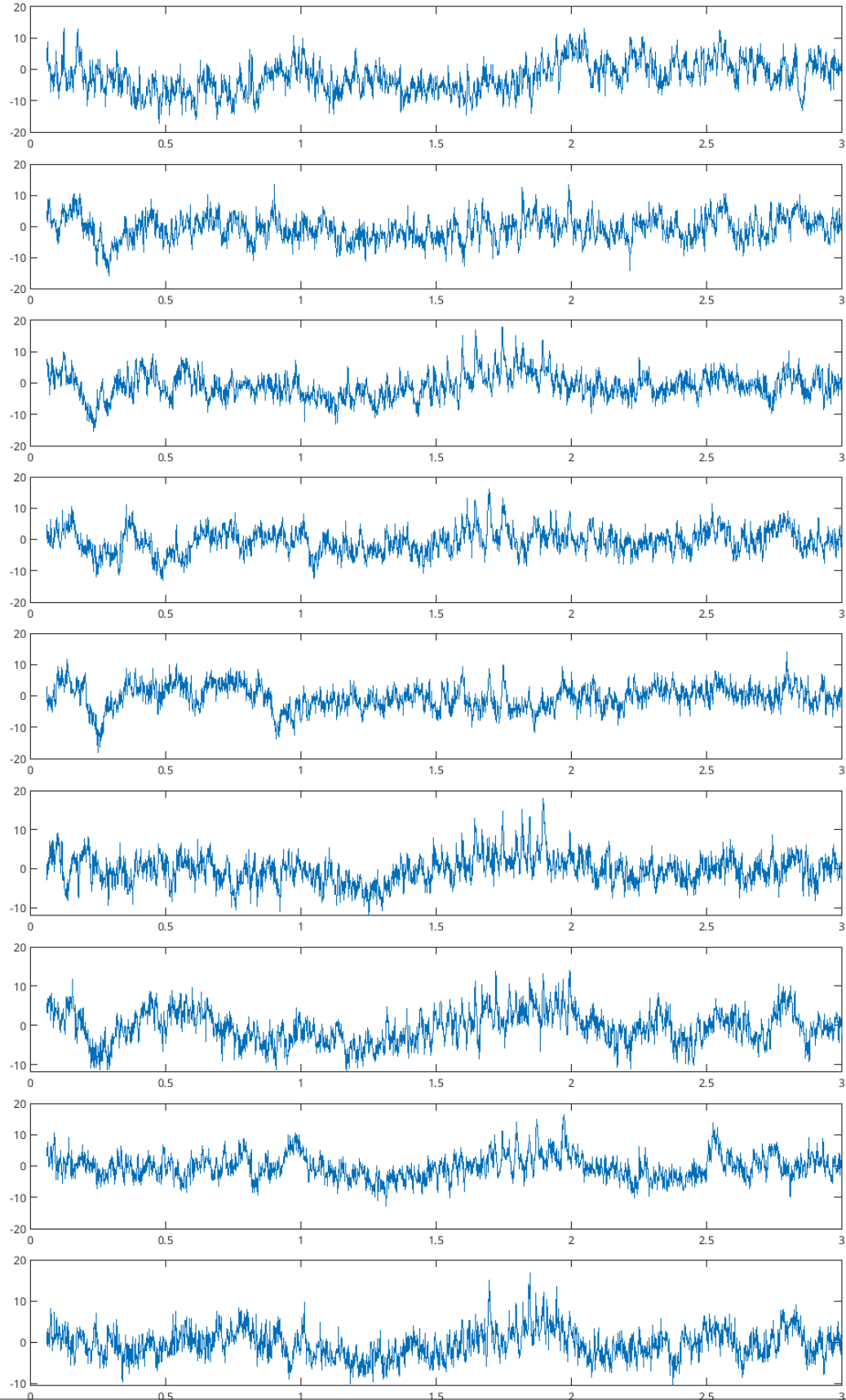
C00023072_V1_rec4_fov3_40_220.mat



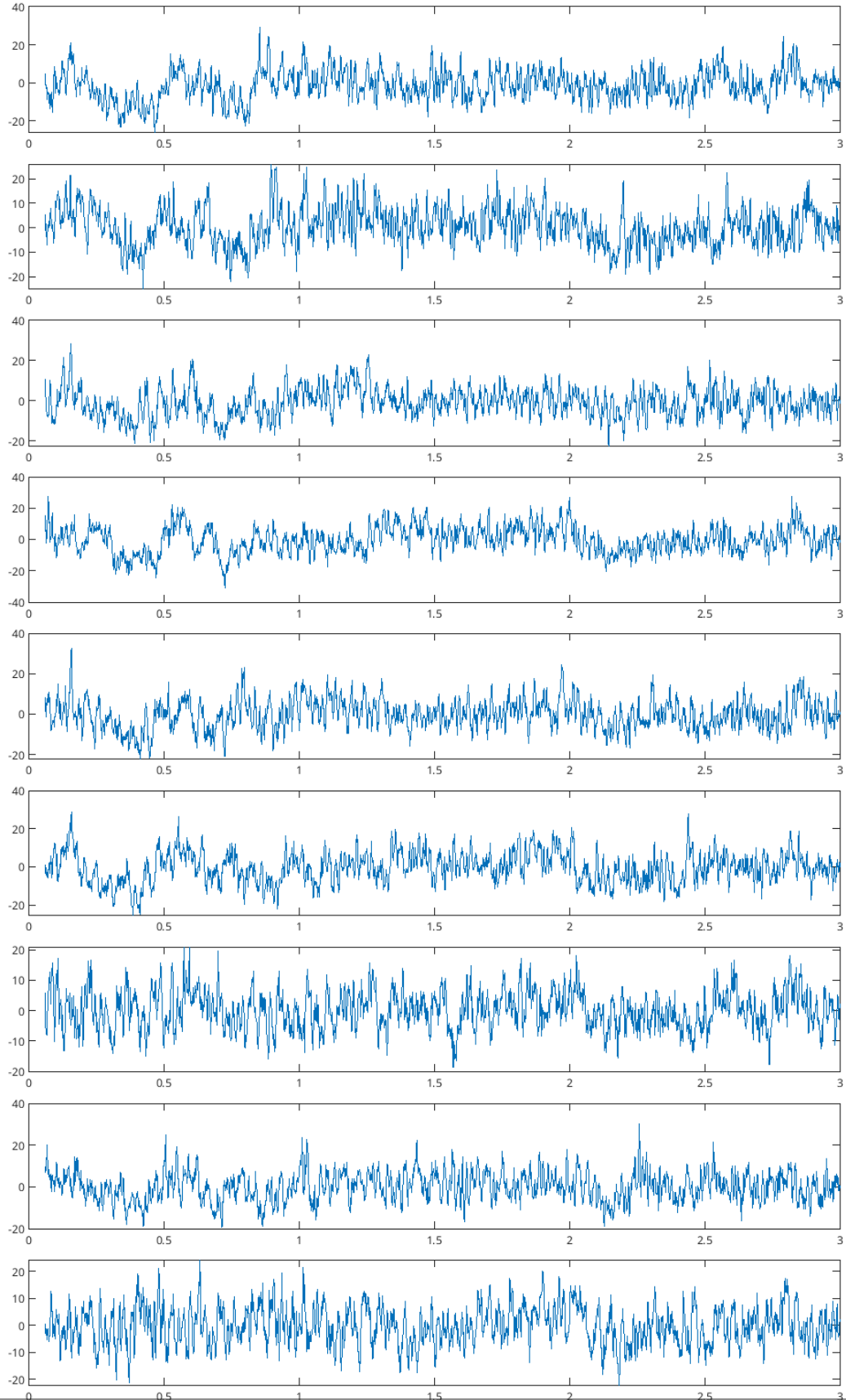
C00023072_V1_rec4_fov4_140_220.mat



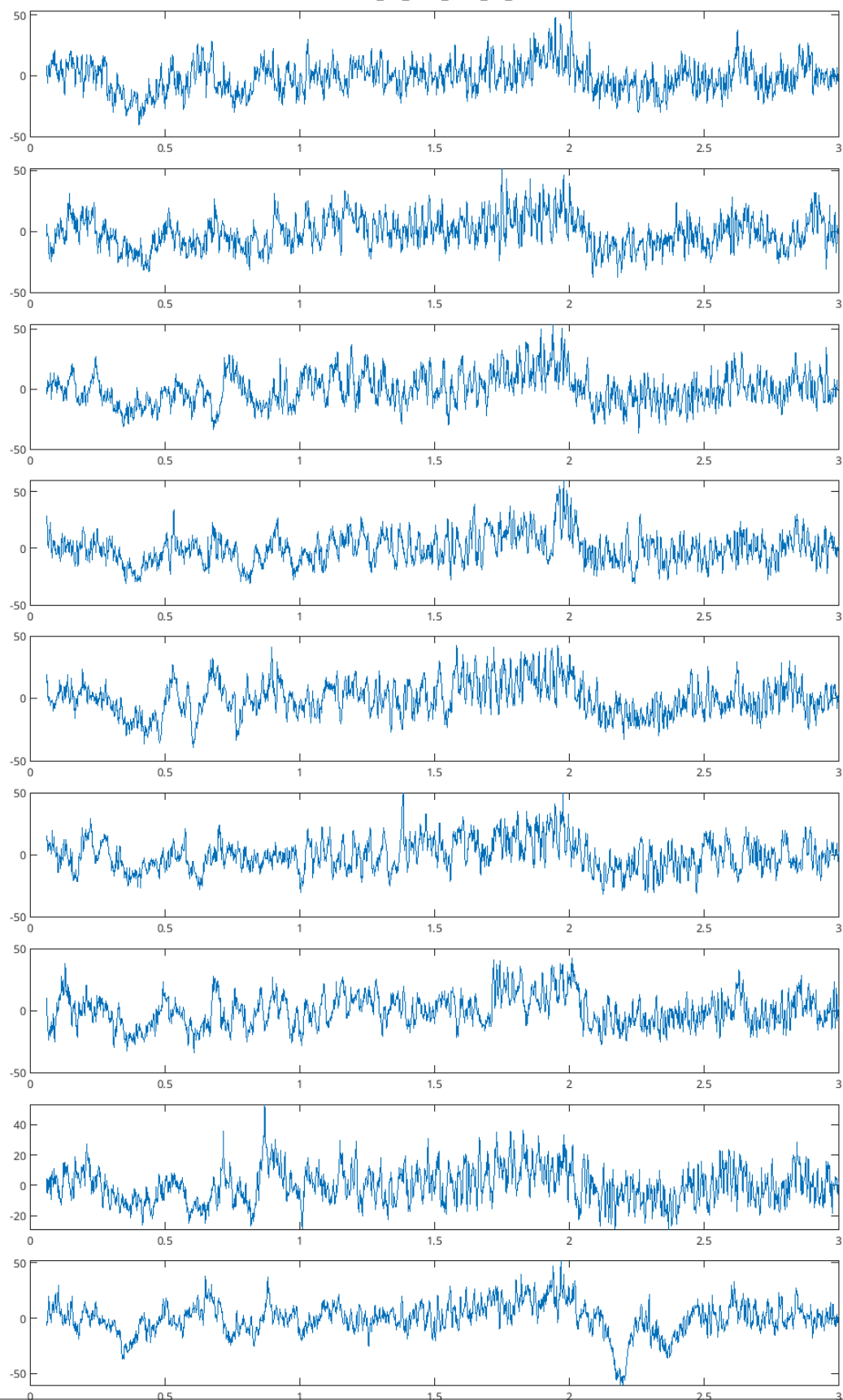
C00023072_V1_rec4_fov4_40_220.mat

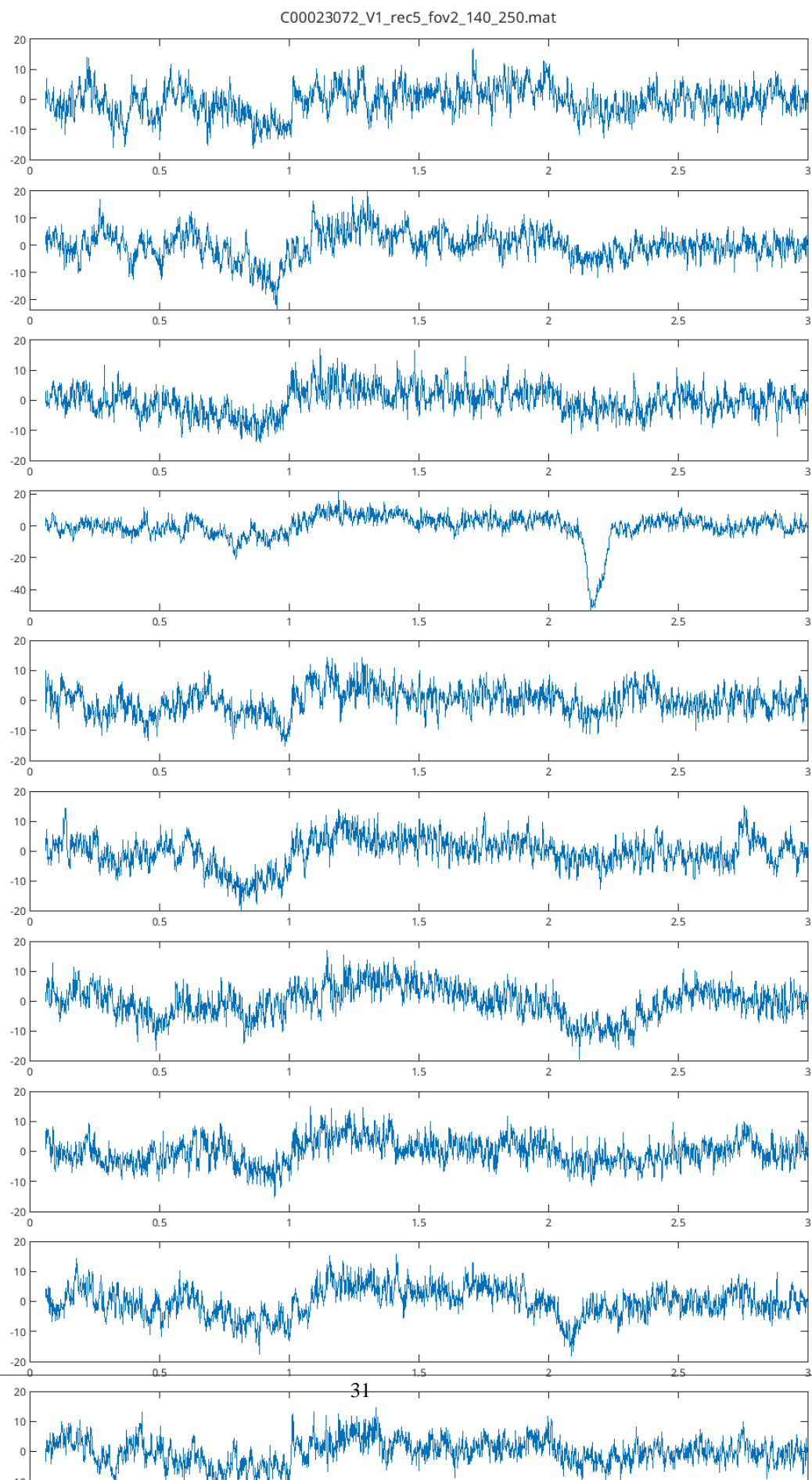


C00023072_V1_rec5_fov1_140_220.mat

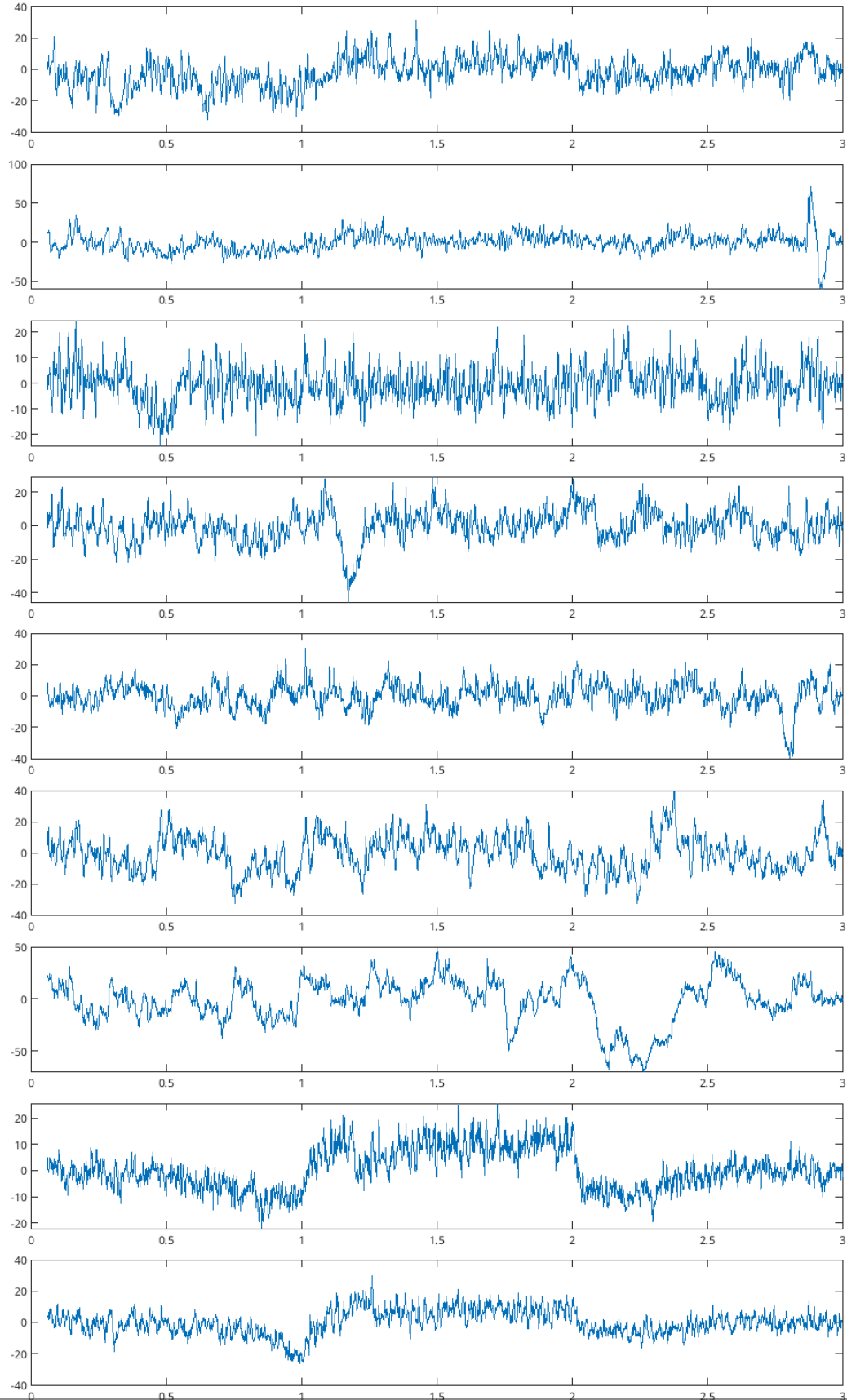


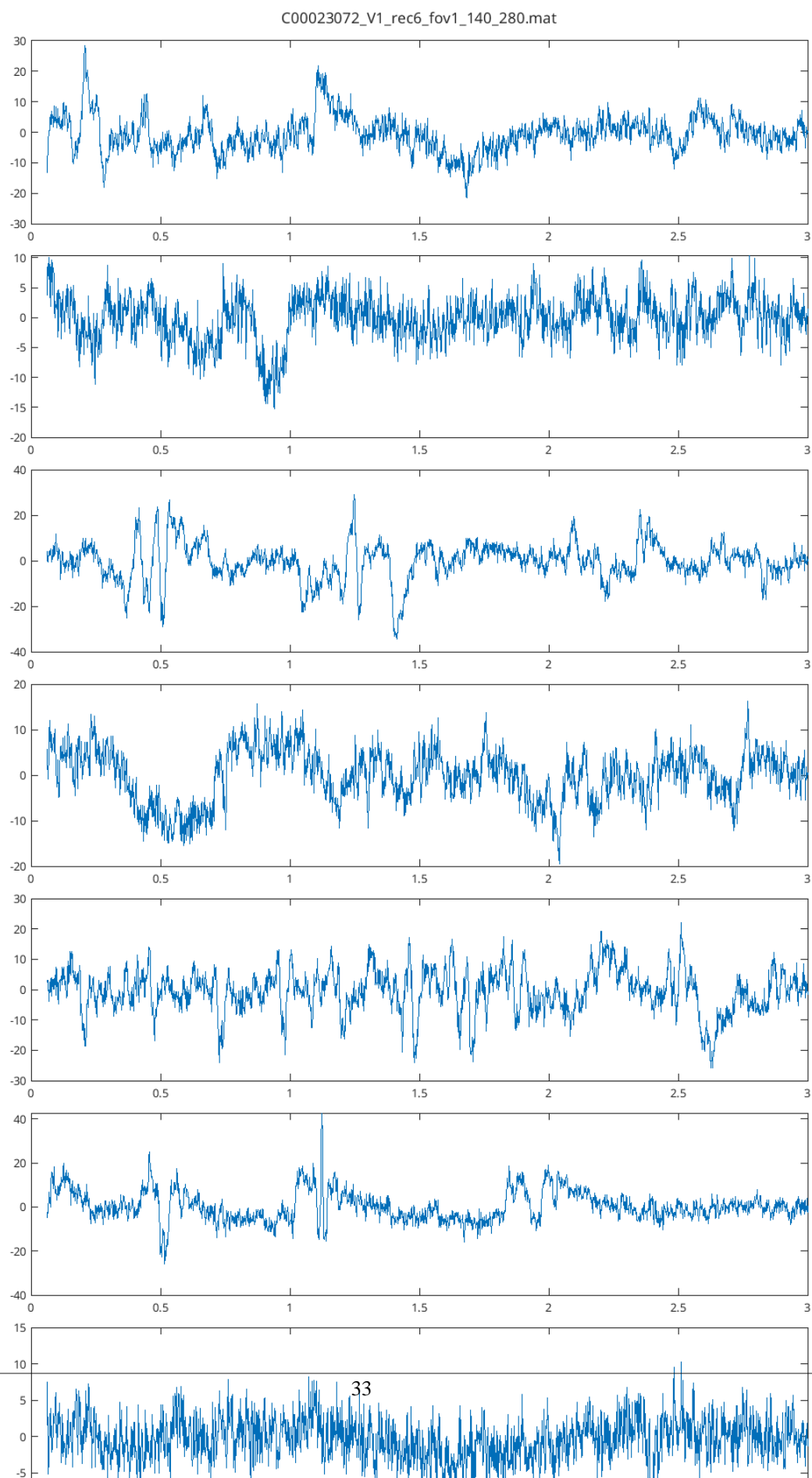
C00023072_V1_rec5_fov1_40_220.mat



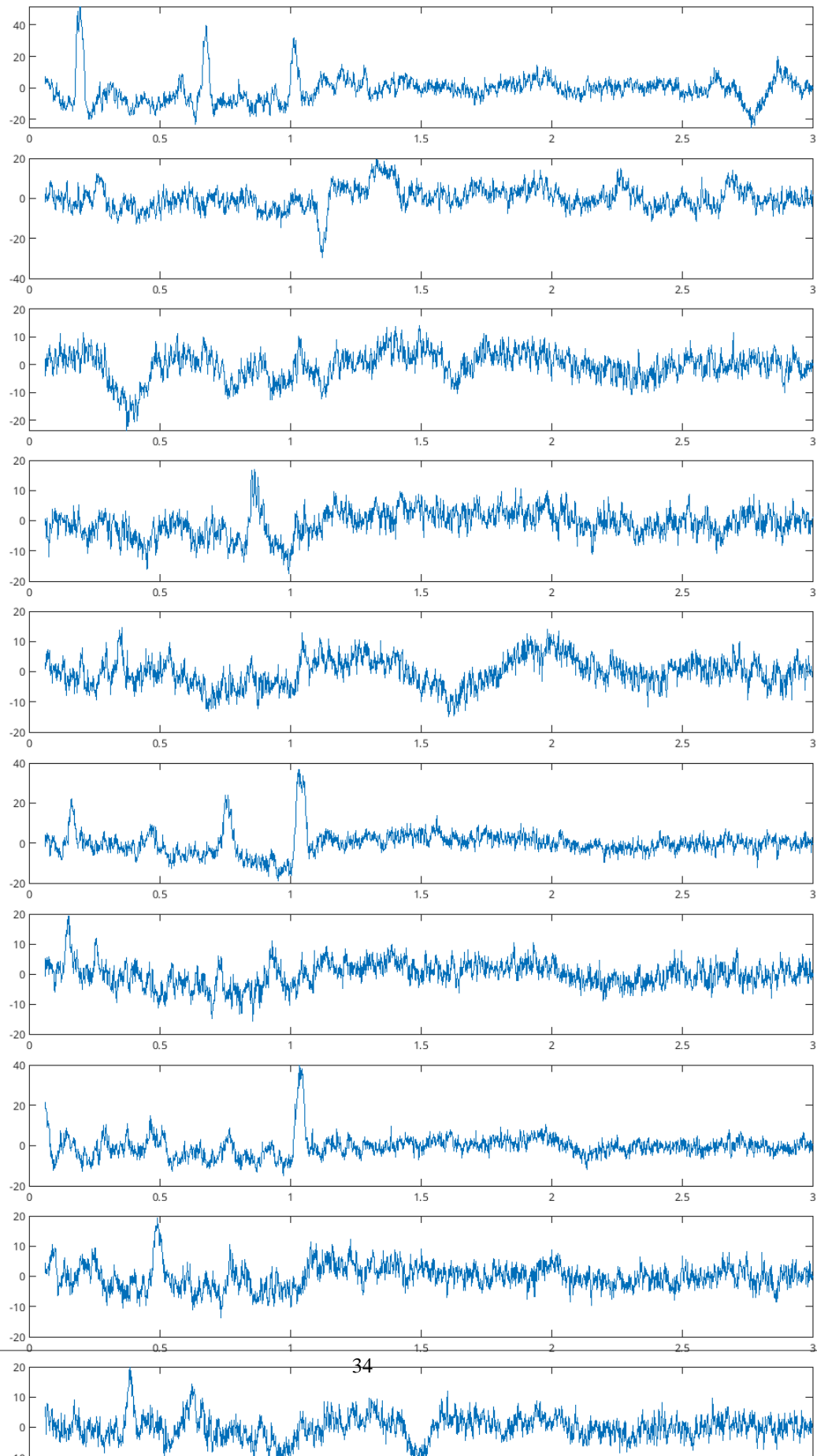


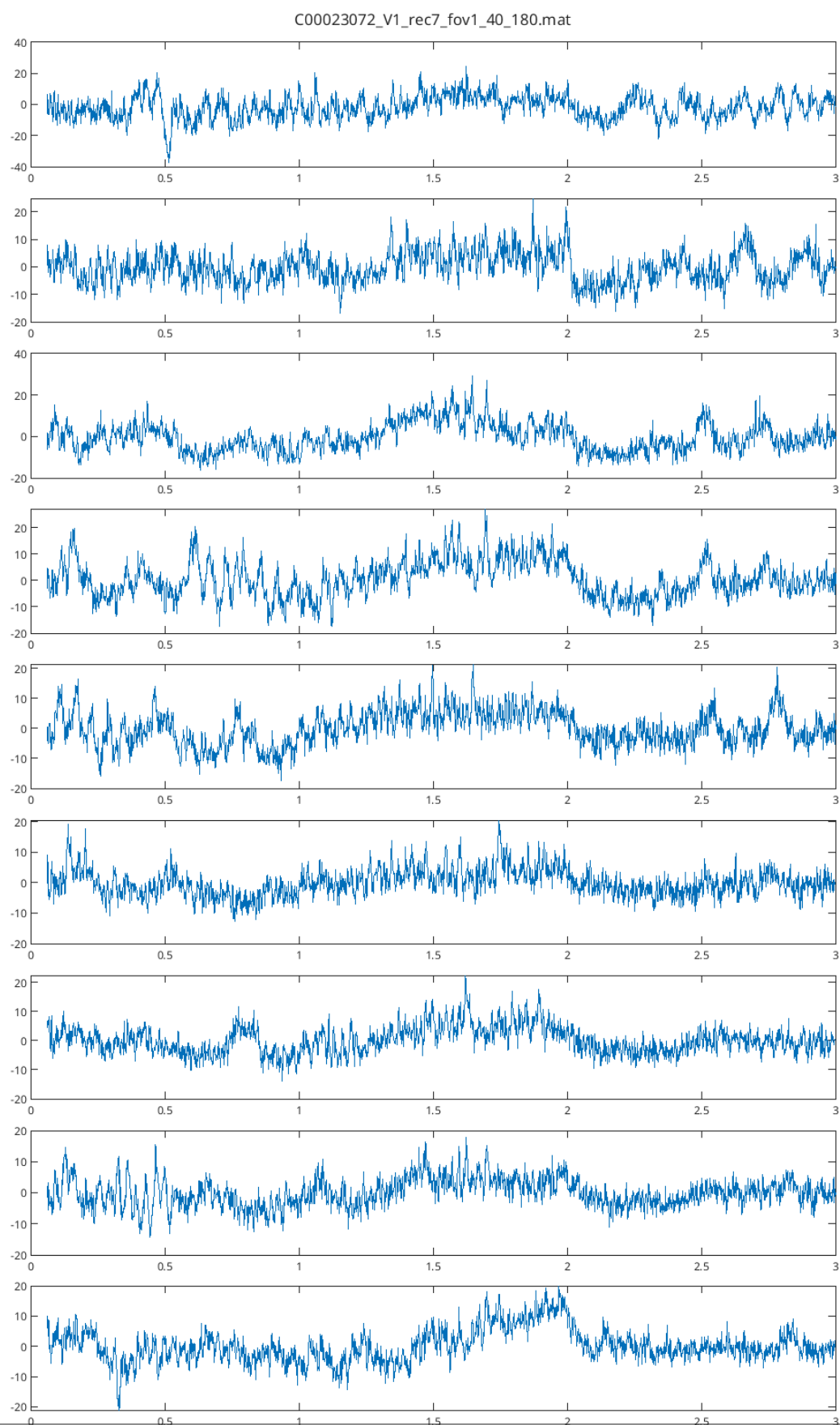
C00023072_V1_rec5_fov2_40_250.mat

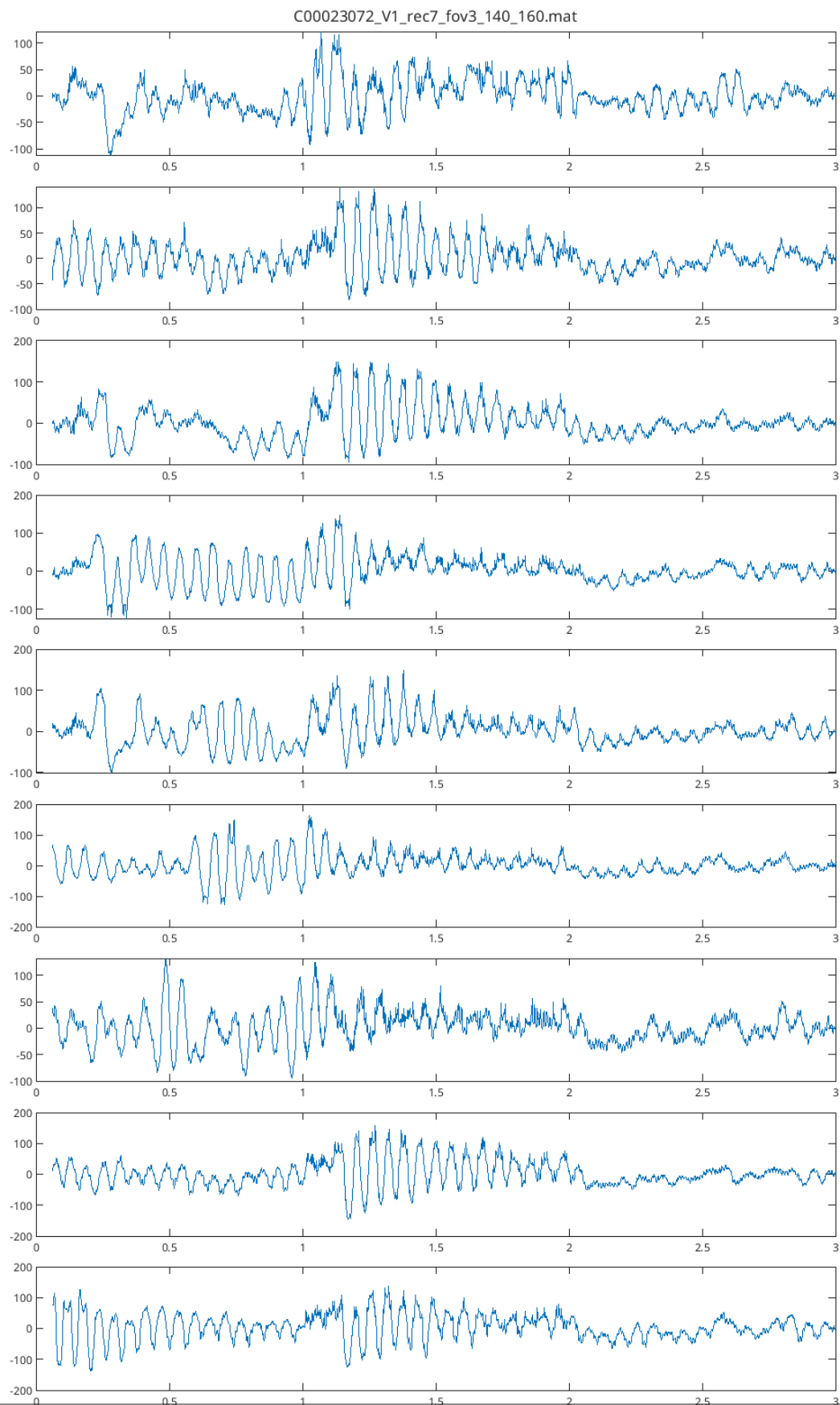


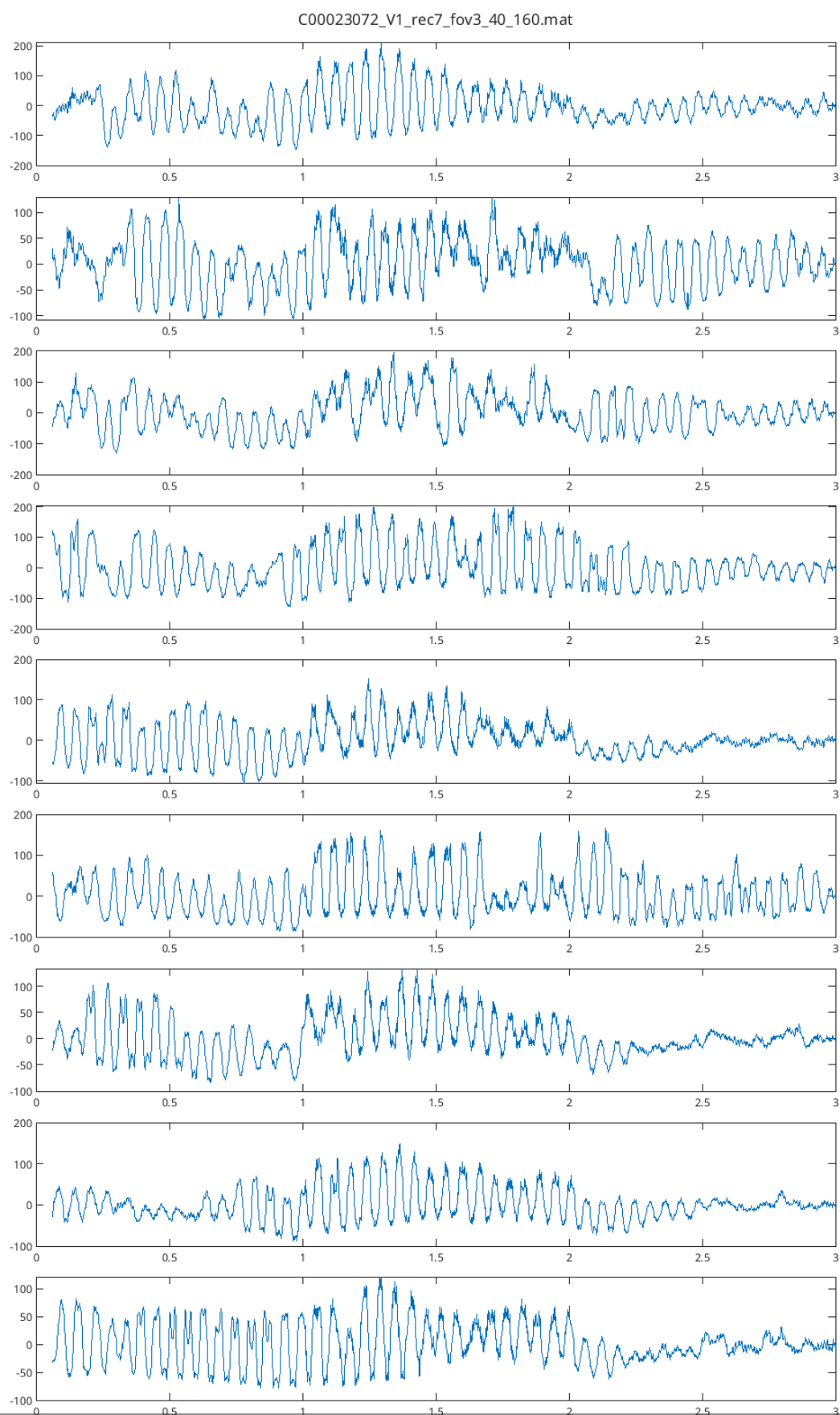


C00023072_V1_rec6_fov1_40_290.mat









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