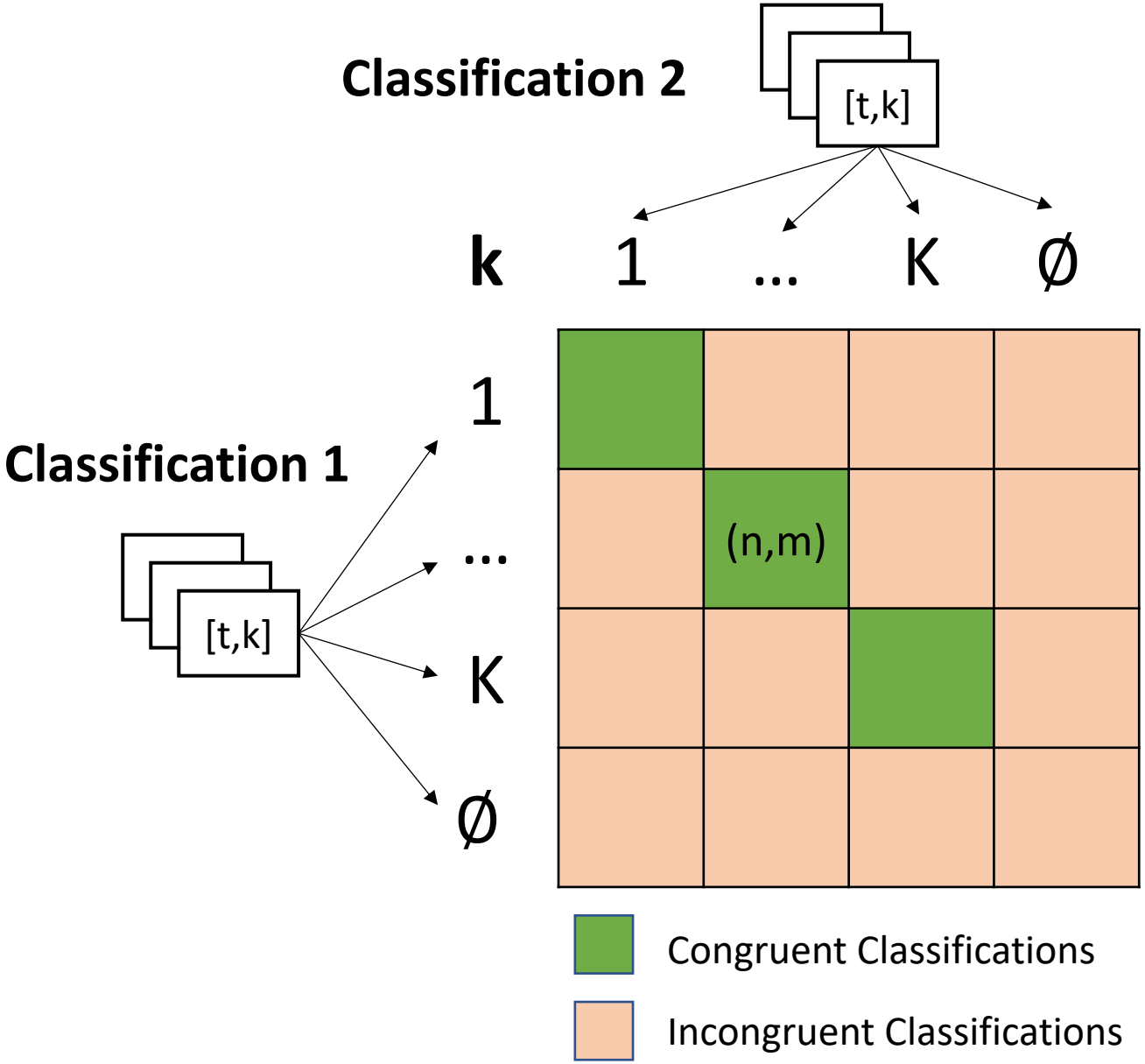
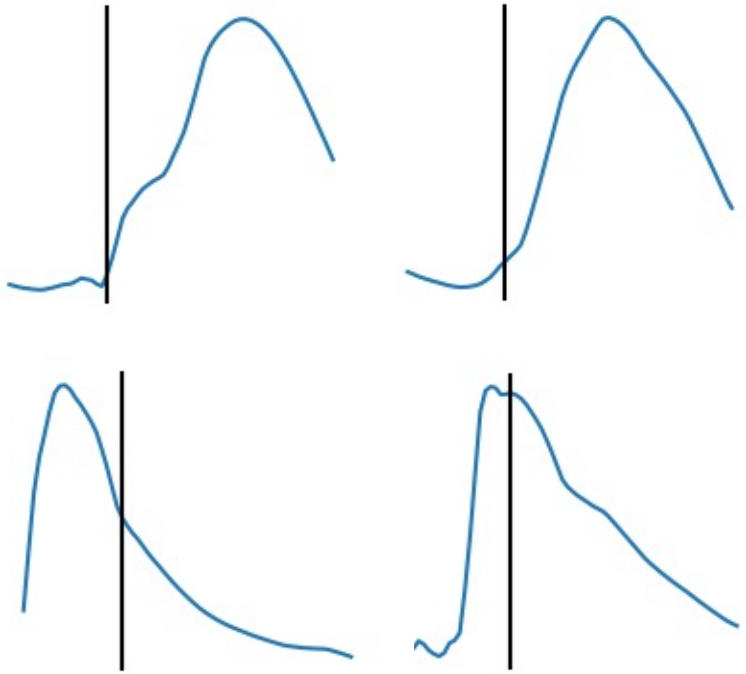
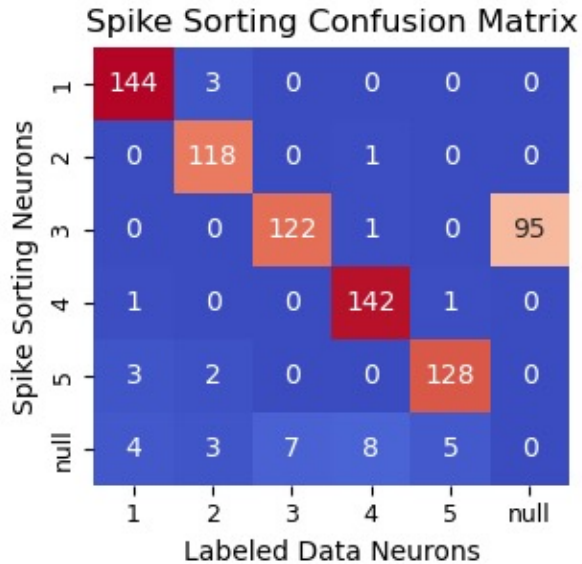
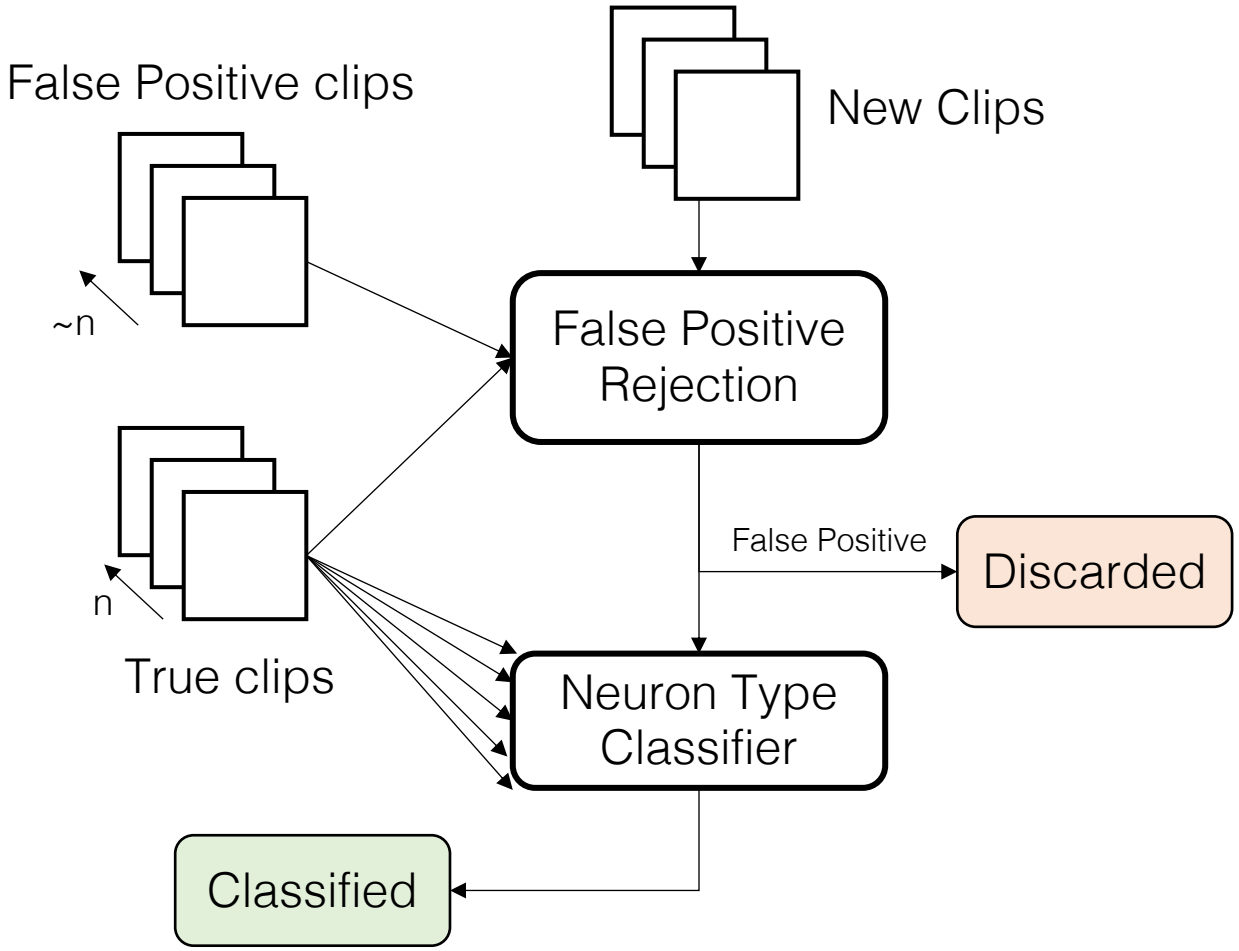
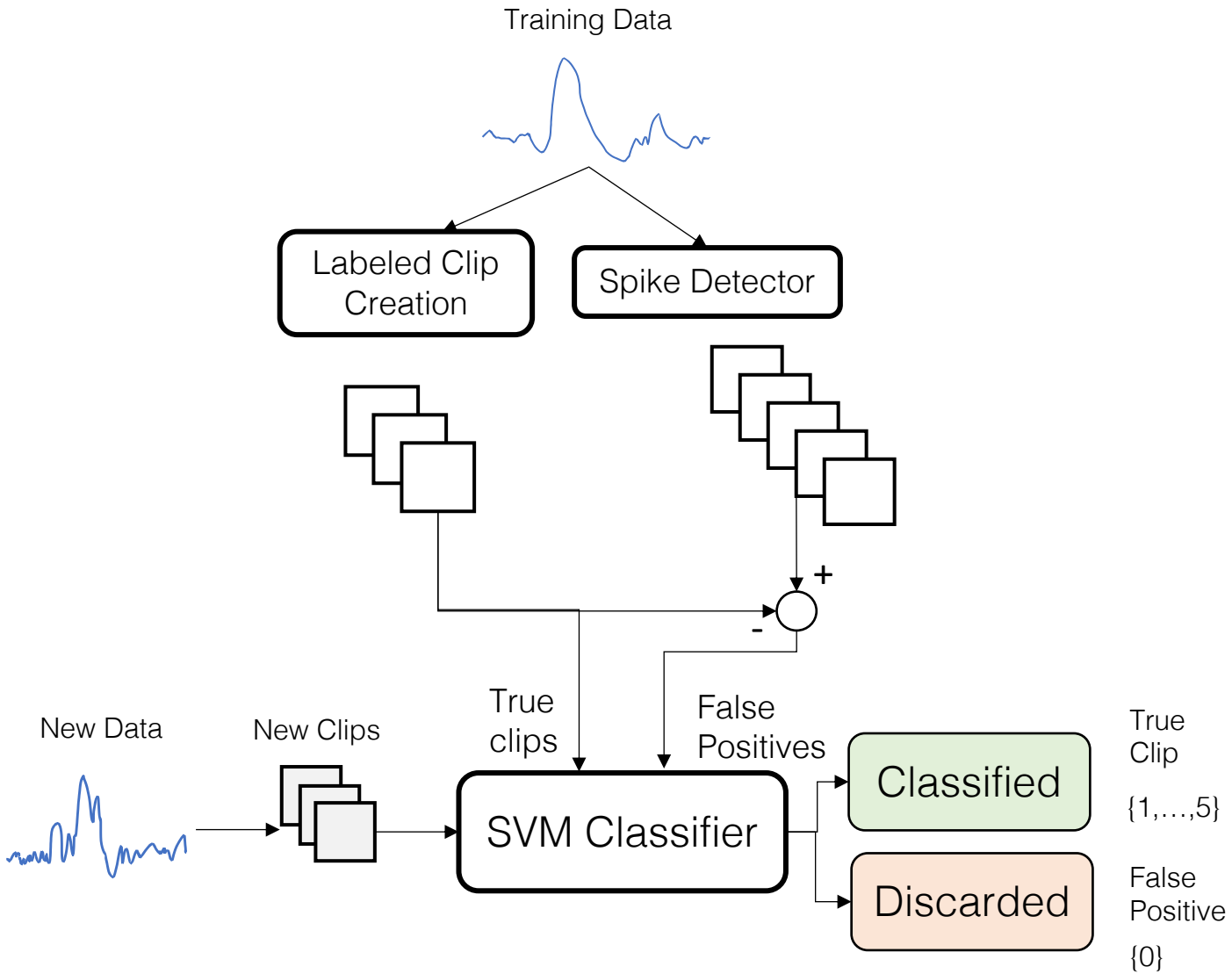

Classification 2
[t,k]
k
1
...
K
Ø
Classification 1
[t,k]
1
...
K
Ø
(n,m)
Congruent Classifications
Incongruent Classifications

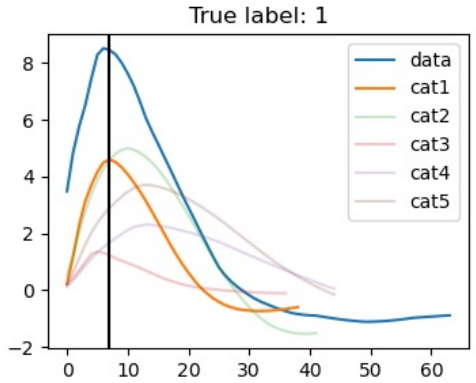
Examples of “Peakless” Spikes and their Spike Times

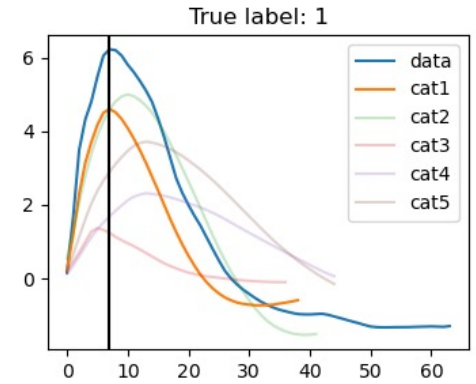


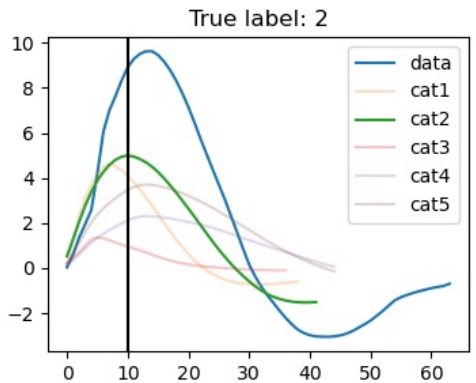

Spike Sorting Confusion Matrix
Spike Sorting Neurons
1
2
3
4
5
null
144 3 0 0 0 0
0 118 0 1 0 0
0 0 122 1 0 95
1 0 0 142 1 0
3 2 0 0 128 0
4 3 7 8 5 0
1 2 3 4 5 null
Labeled Data Neurons


False Positive clips
New Clips
~n
False Positive Rejection
n
True clips
False Positive
Discarded
Neuron Type Classifier
Classified

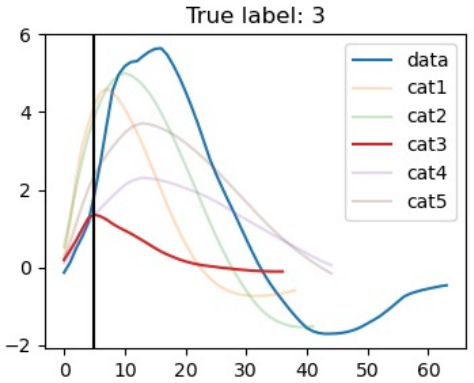

Training Data
Labeled Clip Creation
Spike Detector
+
-
New Data
New Clips
True clips
False Positives
SVM Classifier
Classified
Discarded
True Clip
{1,…,5}
False Positive
{0}

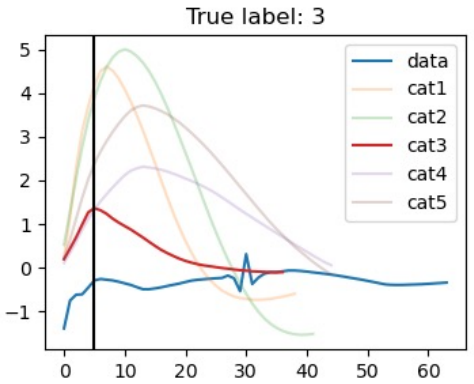


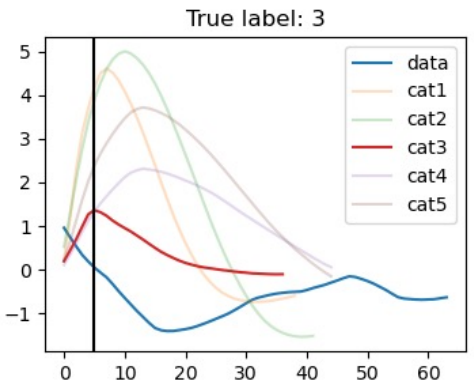




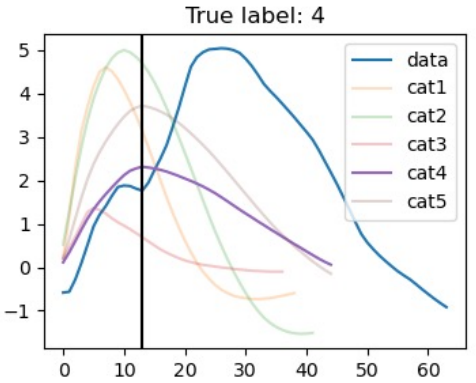
Superposed
n=9/27

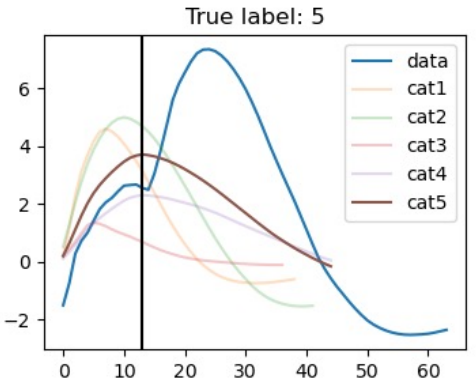


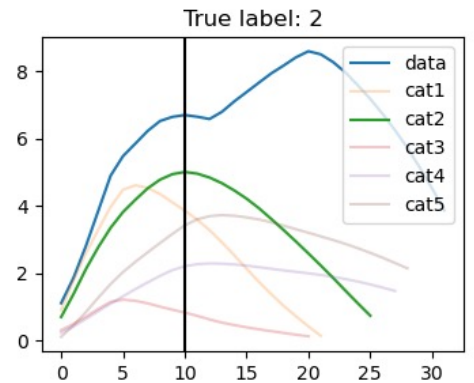




Silent
n=10/27

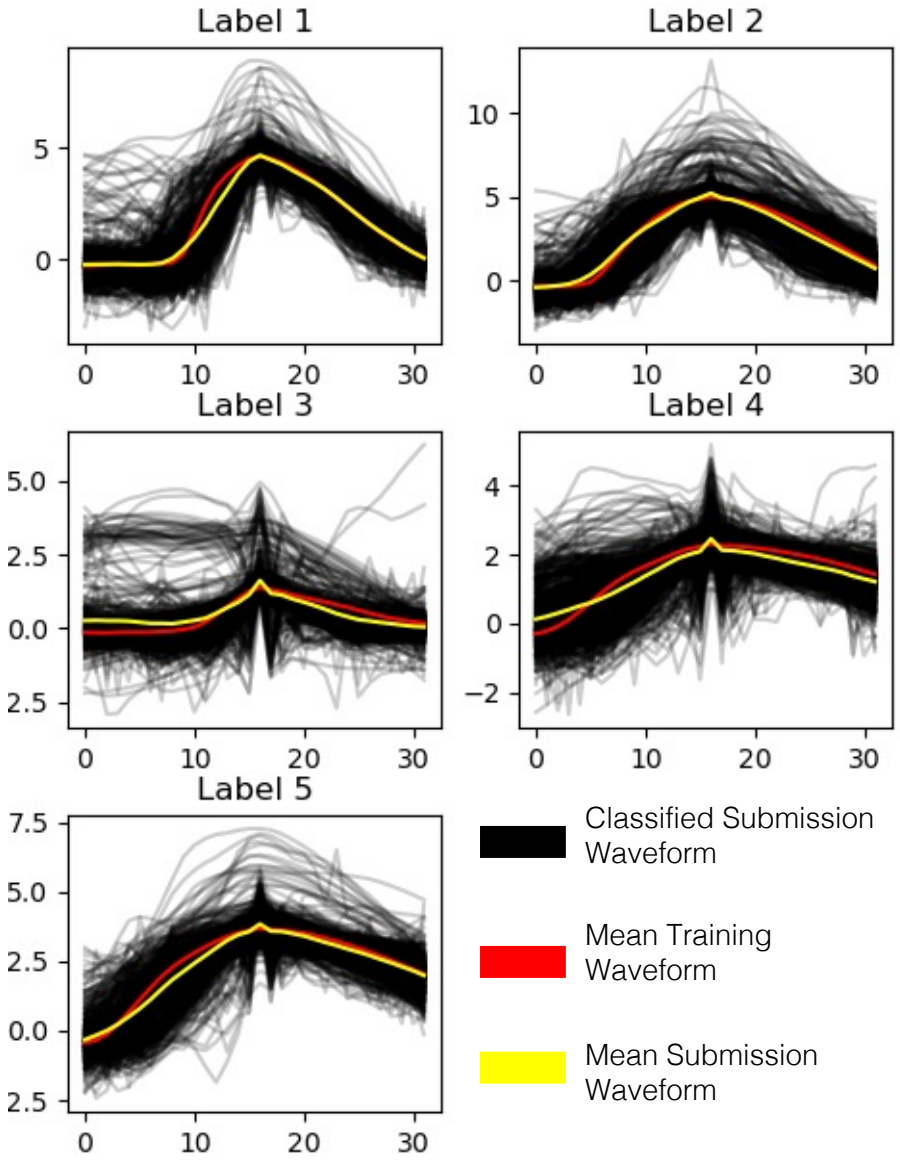
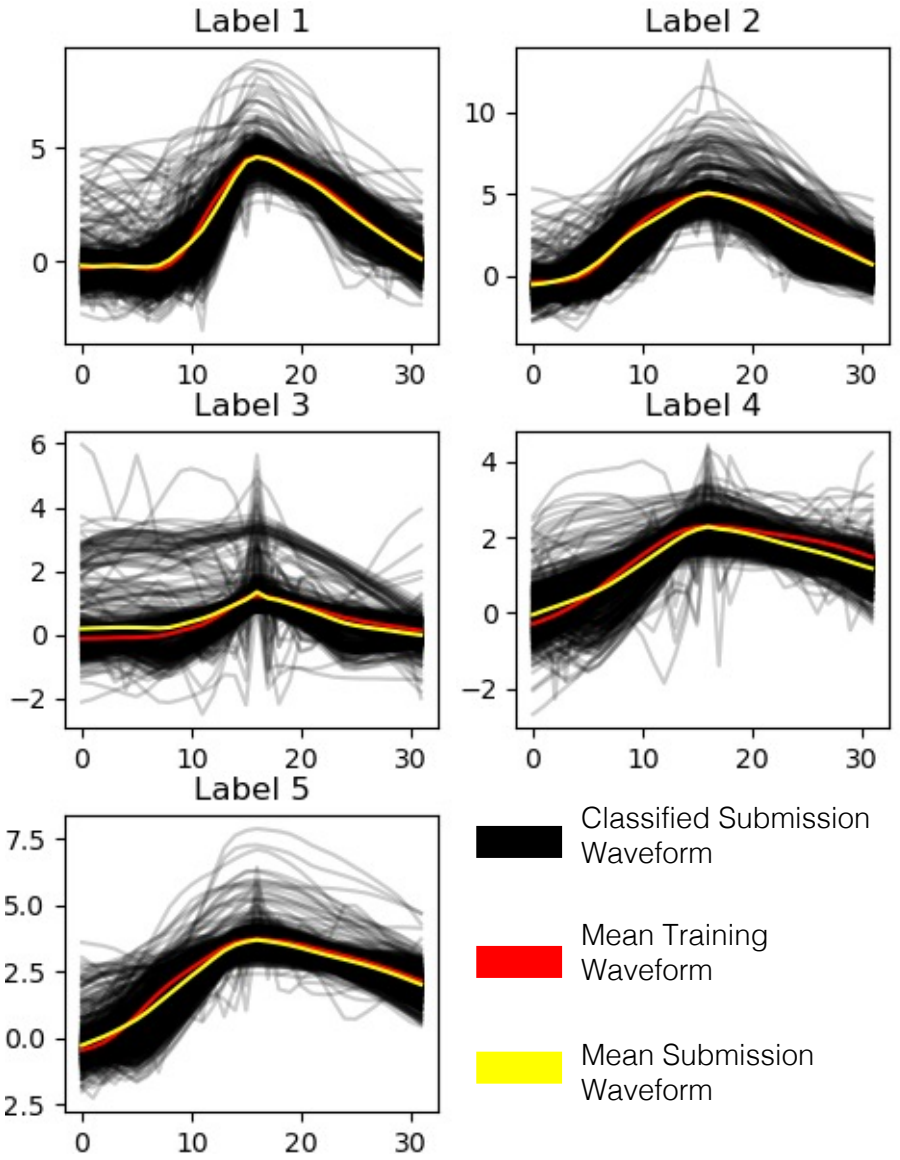






Missed Peak
n=8/27

Classified Submission Waveforms With Level 1 Wavelet Denoising



Classified Submission Waveforms With Level 4 Wavelet Denoising