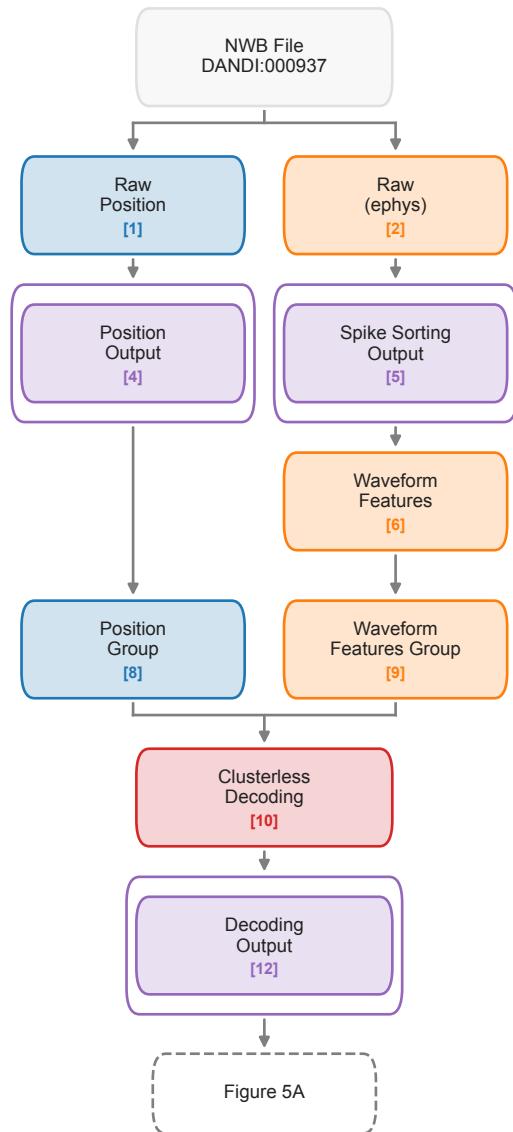
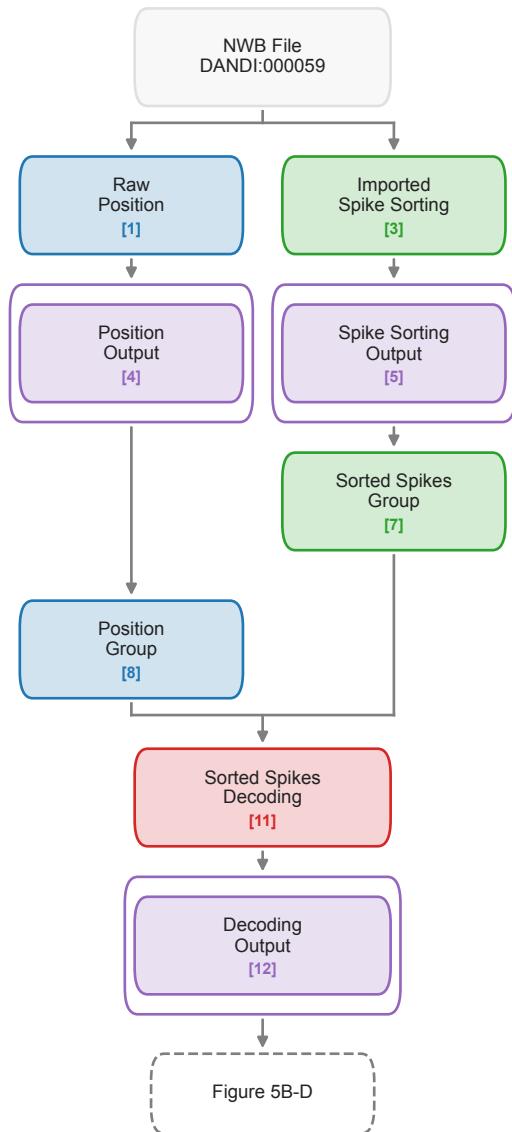


**A****UCSF Dataset**

(Clusterless Decoding)

**B****NYU Dataset**

(Sorted Spikes Decoding)



█ Position processing   █ Neural (clusterless)   █ Neural (sorted)   █ Decoding   █ Merge table

**Table Reference****Sources**

- [1] TrodesPosV1 – Position processing
- [2] SpikeSortingRecording – Spike detection & sorting
- [3] ImportedSpikeSorting – Pre-sorted units from NWB

**Aggregation (Merge Tables)**

- [4] PositionOutput – Aggregates position sources
- [5] SpikeSortingOutput – Aggregates spike sorting sources
- [12] DecodingOutput – Aggregates decoding results

**Feature Extraction & Grouping**

- [6] UnitWaveformFeatures – Waveform amplitudes
- [7] SortedSpikesGroup – Group sorted units
- [8] PositionGroup – Group position data
- [9] UnitWaveformFeaturesGroup – Group waveform features

**Analysis**

- [10] ClusterlessDecodingV1 – Decode from waveform features
- [11] SortedSpikesDecodingV1 – Decode from sorted spikes