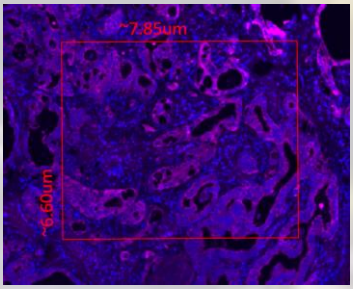
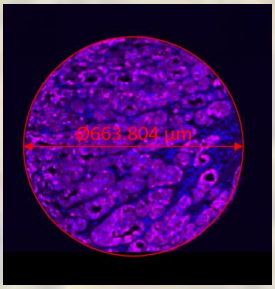
DSP Slide Quick Guide

- Each **core** or geometric shape is **considered an ROI**
- If you are segmenting an ROI into AOIs (ex. CD45 region vs. pan-CK region), you would have:

  #AOI = #ROI x #segments
- Panel kit limitations:
  - **nCounter Protein: 12 slides or 576 AOIs** (whichever comes first, can purchase extra AOI capacity)
  - **nCounter RNA: 12 slides** (Hyb Codes purchased in increments of 96 AOIs)
  - **NGS Automated: 12 slides** (Seq Codes purchased in increments of 95 AOIs [1 ROI/plate is reserved for a non-targeting control])
- Each **ROI can be a MAX 6.60um x 7.85um**. (just a little bit larger than a 0.6mm TMA core)





- **Each** AOI **must independently** reach **20-30 cells minimum for protein assays** and **at least 100 cell minimum for RNA (200 to be conservative)**
- All assays requires **blocks** to be no more than **10 years old**
- At MAPcore, **submission of tissue blocks** is preferred over cut slides. Cut slides must be sectioned no more than 2 weeks before assay onto APEX Bond slides.
- Tissue(s)/TMAs must fit and be mounted with the below size restrictions (Fig.1).

Size Restrictions:

0.6mm cores:
- Spacing = 1.00 (mm)
- Narrow side= 13 cores
- Long side= 35 cores
- TMA size = 455 cores

1.0mm cores:
- Spacing = 1.75 (mm)
- narrow side= 7 cores
- long side= 19 cores
- TMA size = 133 cores

2.0mm cores:
- Spacing = 2.75 (mm)
- Narrow side= 4 cores
- Long side= 12 cores
- TMA size = 48 cores (including landmark spaces)

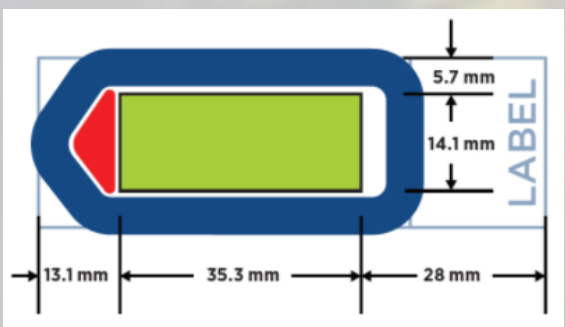


Fig. 1