Quality Control Protocol for GC/MS pipeline

**Check Prep file for**

* **Internal Control signal**: to check injection
  + STIG > 1E4; 190 > 5E4. My QC filter is set to 1E4 by default. If less than that, related data for the whole sample is trashed
  + If very low, usually caused by insufficient injection, which might be a result of evaporation and the syringe failed to extract enough volume
* **Ion Contamination:** 
  + E.g. 16:1 usually contamination peaks at the end of the distribution. Make sure you
  + **Delete from the MID RAW file, and convert it to prep file again!**
  + Check new prep file again to make sure!

**Filters:**

* **Internal control < 1E4 will be trashed**
* **p and s < 0.02 will be trashed (modeling doesn’t handle s or p < 2% well)**

**After Modeling:**

* Check if p and s is real.
* If p isn’t real, then s isn’t real. P.real>1 is definitely not real. If still within range, than you should check the original data with the modeled distribution