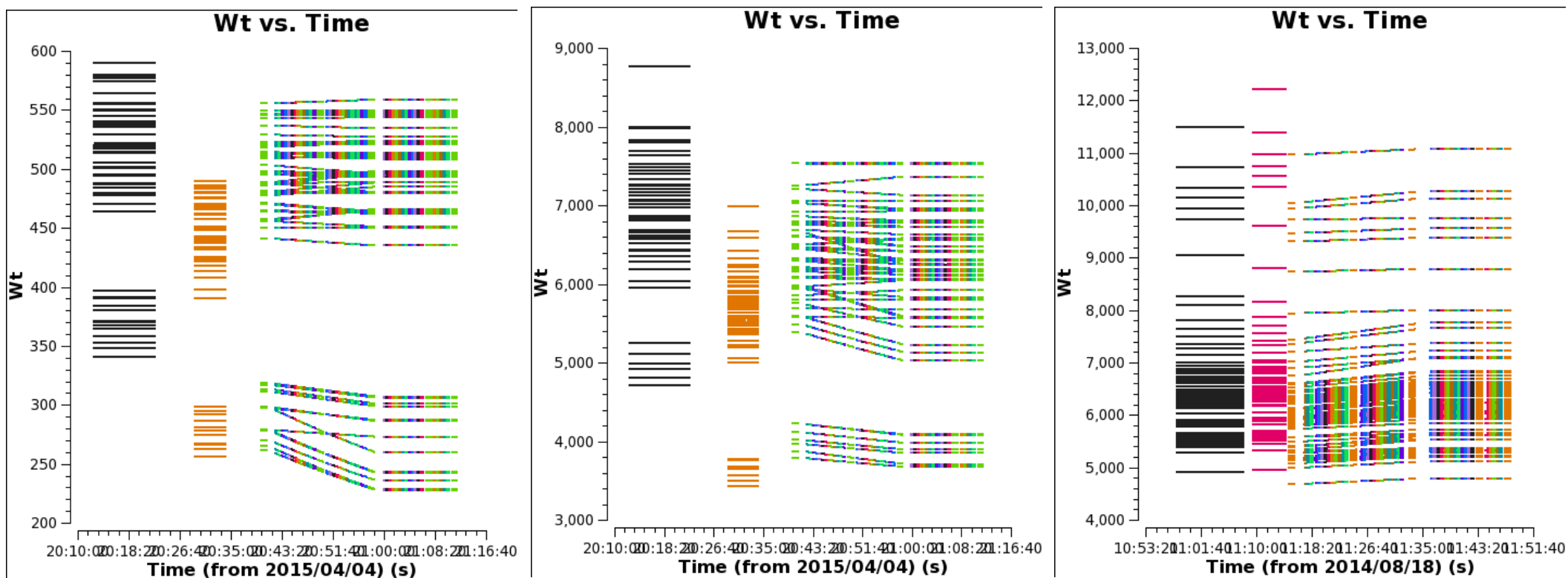


Weight plots

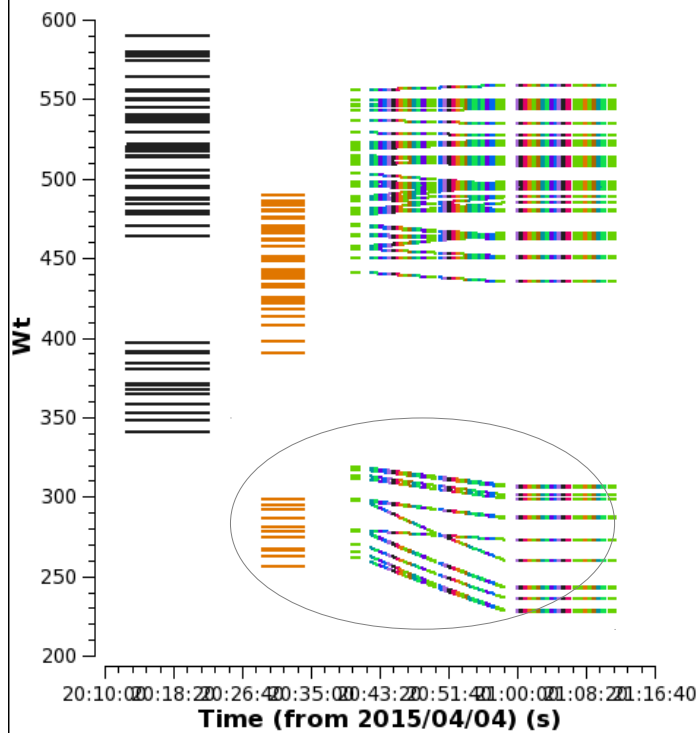
From my notes in the QA2 training:
"All fields should have similar weights, and flat through the observation. Check for outliers."

There are some "allowed" differences:

- between sources due to different elevation
- between FDM and TDM spws (for larger channel widths, the statistics to compute weights are better and then weights larger)

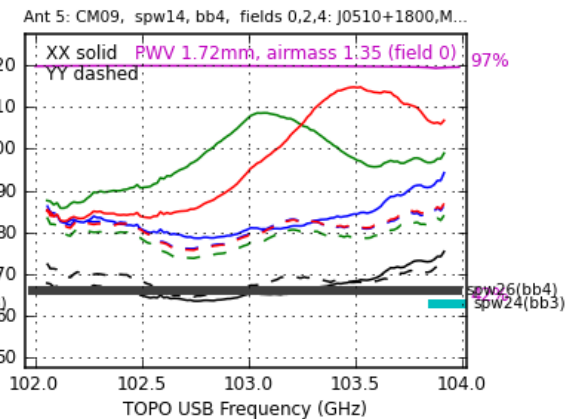
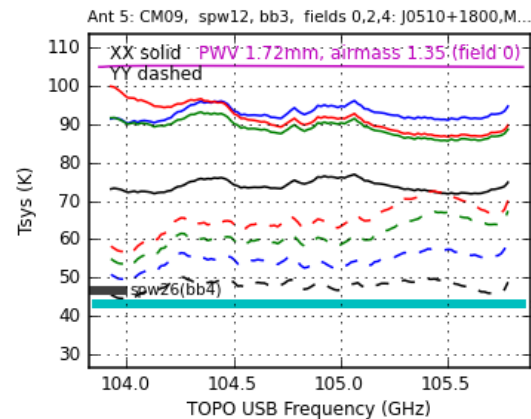
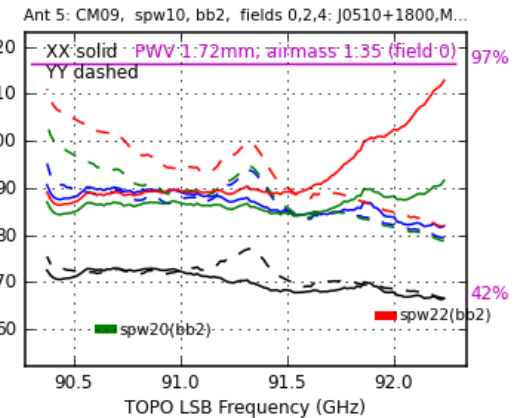
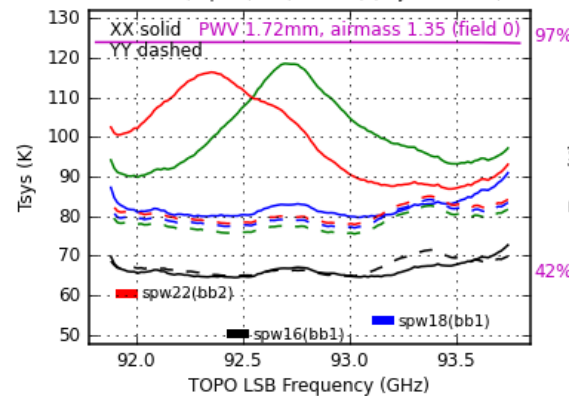


Wt vs. Time



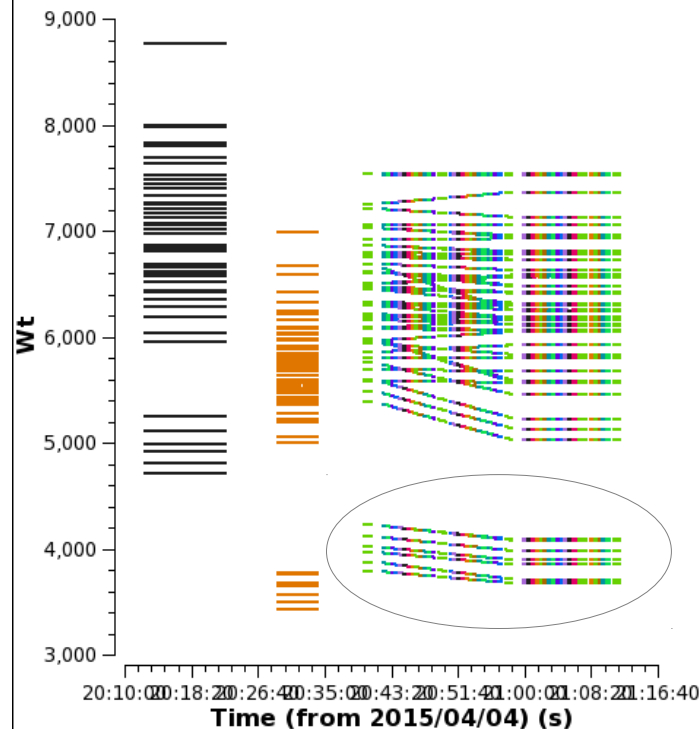
→ From one antenna, showing higher tsys than the others (~50K)

uid_A002_X9d4710_X16ba.ms.tsys
UT 20:11:36 20:27:48 20:40:58 20:58:35
Ant 5: CM09, spw 8, bb1, fields 0,2,4: J0510+1800,M...

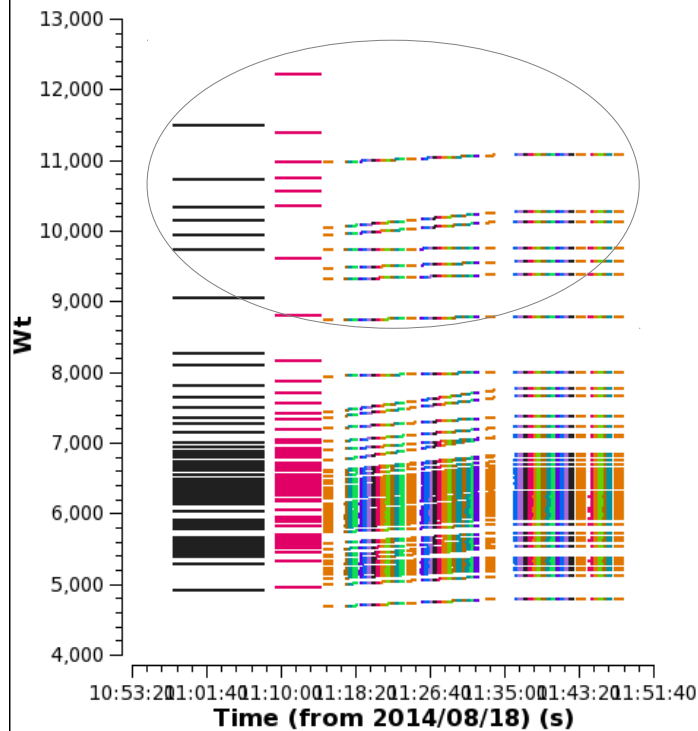


uid_A002_X9d4710_X16ba.ms ObsDate=2015-04-04 plotbandpass3 v1.153 = 2015/04/13 14:29:00

Wt vs. Time



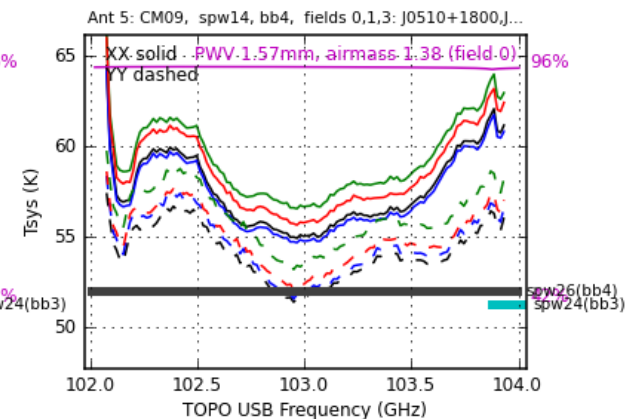
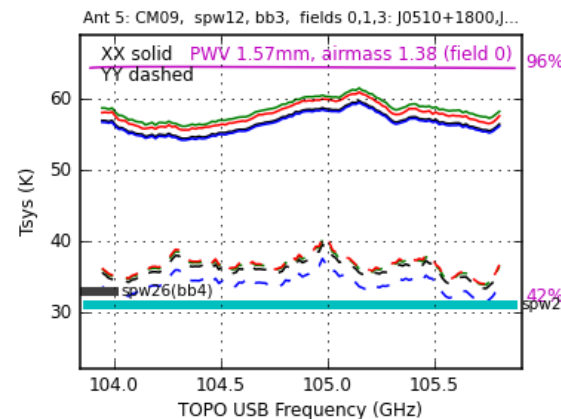
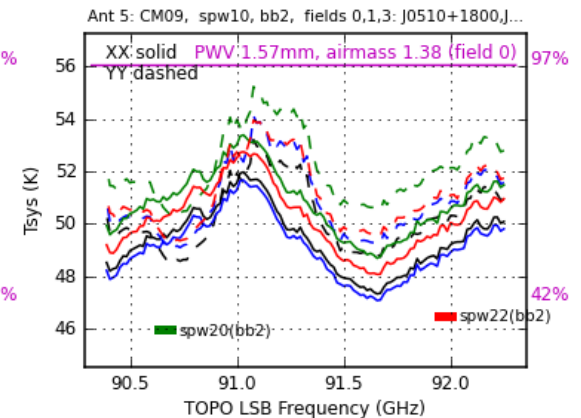
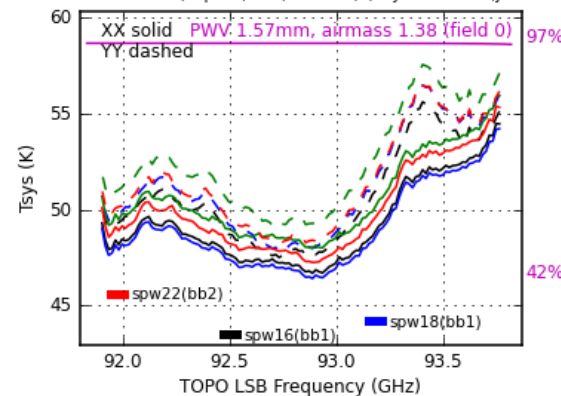
Wt vs. Time



➔ From one antenna and only one polarization, showing lower tsys than the other polarization

uid__A002_X899169_X28f9.ms.tsys

UT 10:57:06 11:08:09 11:15:55 11:35:04
Ant 5: CM09, spw 8, bb1, fields 0,1,3: J0510+1800,J...



uid__A002_X899169_X28f9.ms ObsDate=2014-08-18 plotbandpass3 v1.153 = 2015/04/13 14:29:00

Probably, all this is fine, since the weights should correct for the difference in tsys between antennas etc.

→ then no flagging needed only based on the weights...

However, in the latter example I flagged the antenna because there was an issue in the calibrated data (seen in the flux calibrator):

