

by Alex Artieda, ZS6EME

Agenda

- Introduction
- Faraday Rotation
- Traditional errors when compare SW and HW
- Multi polarization reception
- Usual wrong statements
- Is WSJT better than MAP65?
- Questions

Faraday Rotation

- Still a problem in lower bands
- Adaptive polarization, a mature configuration
- Improper configurations produce mix results

input rubbish = output rubbish

To compare SW and HW a properly platform is required

Traditional errors when compare SW and HW



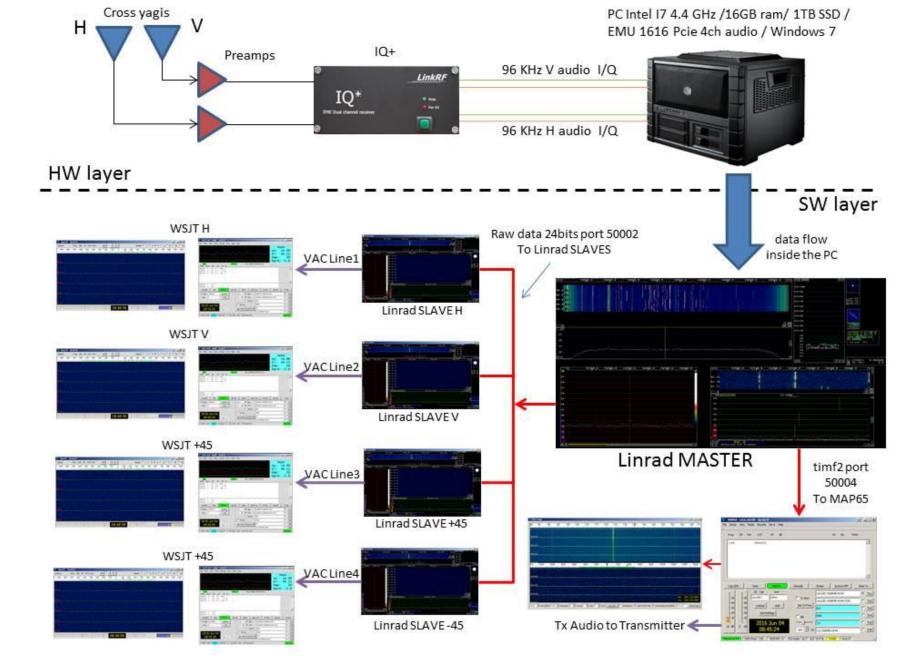
The infamous BNC-T

Please!!! Don't use to tap your IF

Avoid errors when compare SW and HW

- Preserve amplitud and phase in both channels
- Avoid the BNC-T due signal distortions
- Calibrate both channels to preserve the nature of the signals even if all cables are the same,

...most of the time are not the same!!!



Usual wrong statements

.....I always run both programs in parallel and WSJT Decode down to -30dB when MAP65 stop most of the time In -26dB....

...after doing a properly research for several months, I found WSJT decodes much better than MAP65.....

...I install MAP65 to run in parallel with WSJT and I confirm many times WSJT decodes when MAP65 not, definitve Joe need to do something...... Is WSJT decode better than MAP65?

I don't think so!!!

JUST 1% WSJT (in S/N from -27dB to -30dB)
GIVE A DECODE WHEN MAP65 NOT

Is WSJT decode better than MAP65?

What we don't know is how many non-decodes in MAP65 happens due improperly calibration on the Adaptive polarization system

Dphi calibration on MAP65 will affect the performance, a parameter almost ignored by many operators.

Conclusions

- Simple observations are not enough to demostrate the performance of any particular HW or SW
- Is a must to keep the integrity of the data to avoid alterations and produce wrong conclusions
- The demand of a stable and well configure test platform is one of the main conditions.
- To do properly comparisons each piece of SW need to be adecuate calibrated (ie. Dphi in MAP65)
- A more refine analisys is requeried to produce confident results

Questions?