Correlated Noise Simulation

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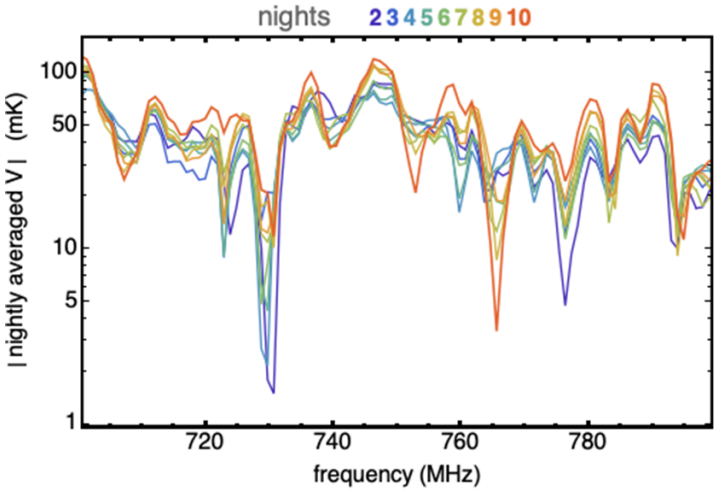
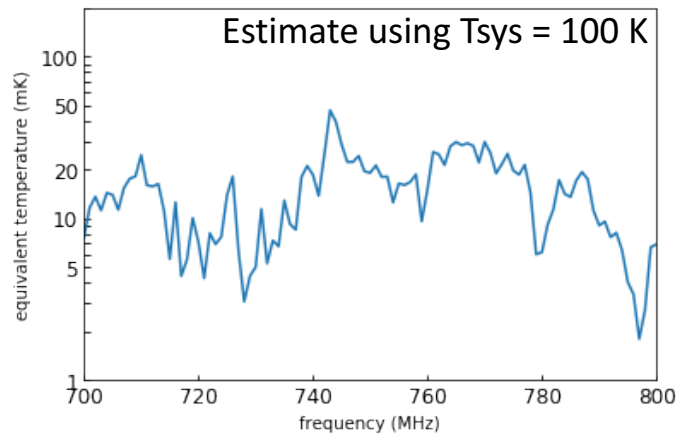
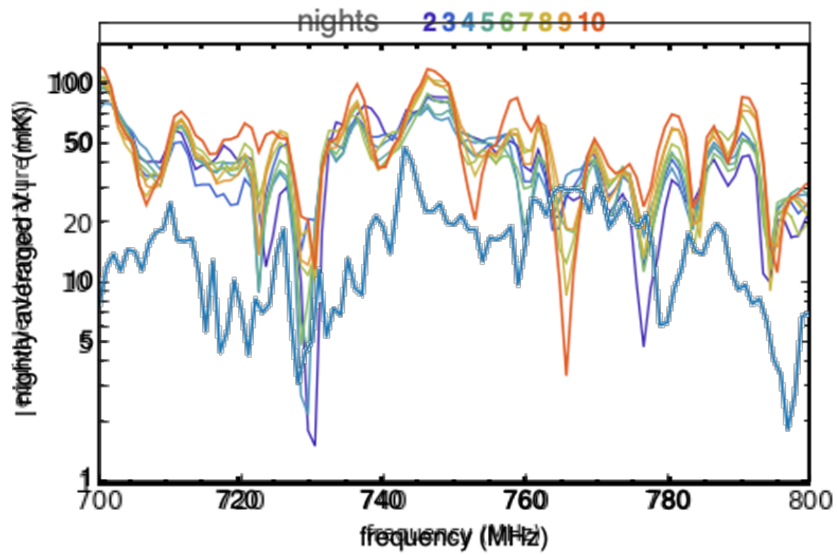
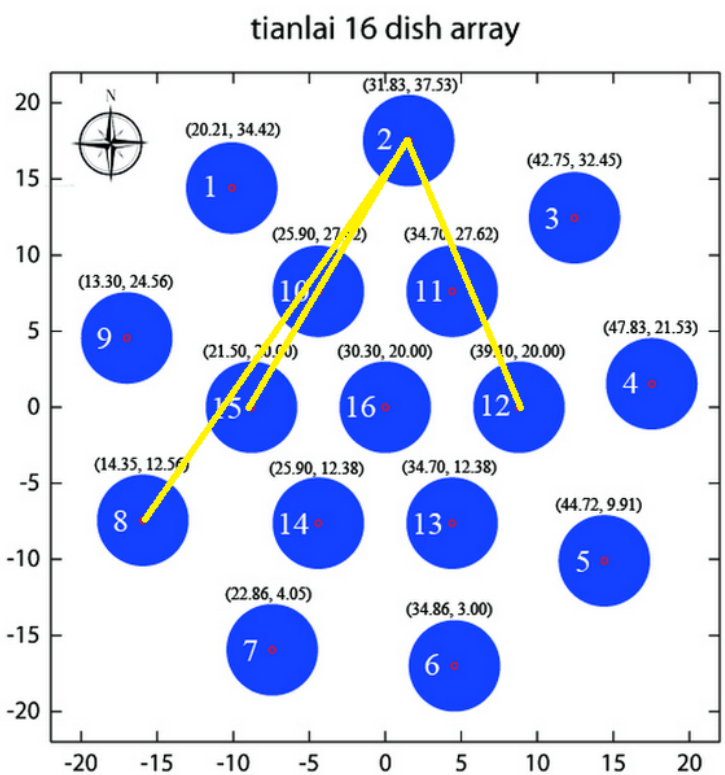
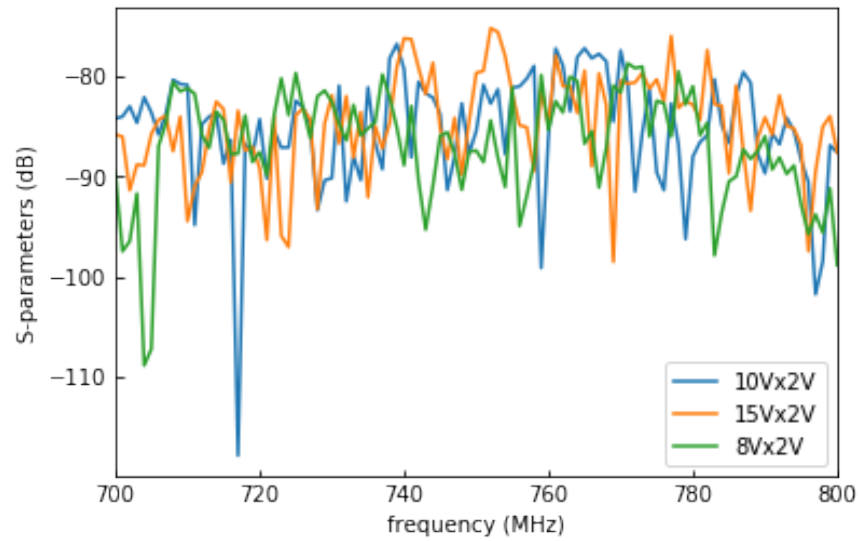
Simulated 2Vx10V + 10Vx2V in Tequiv











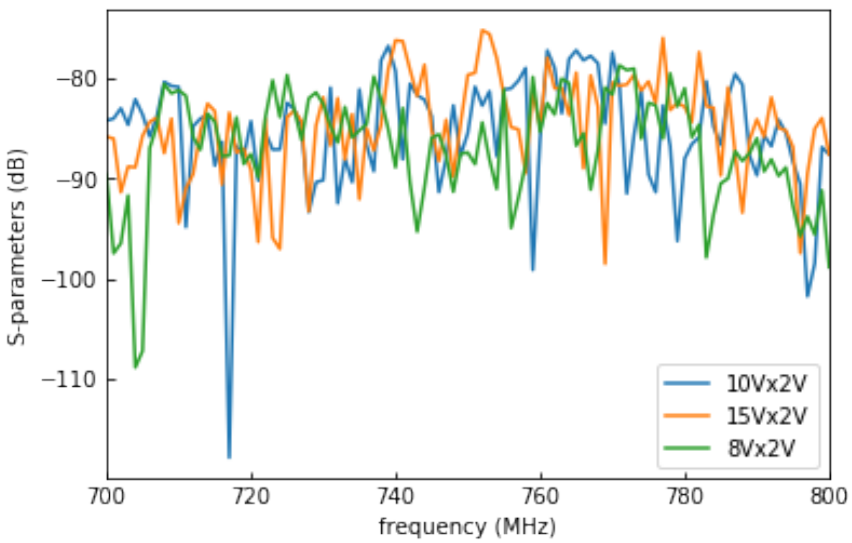
Separations of the Dishes:

2V-10V: ~ 11.6 m

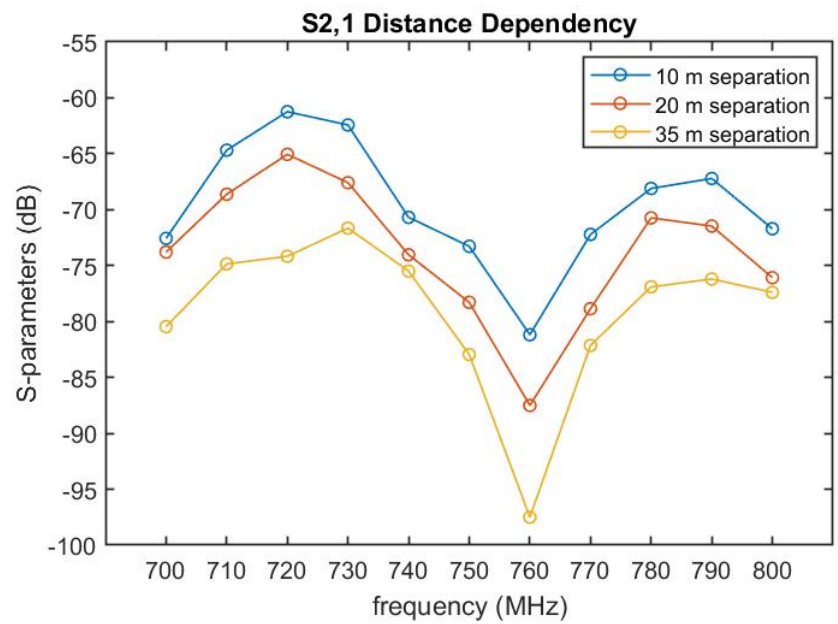
2V-15V: ~ 19 m

2V-8V: ~ 30.5 m

Dishes pointing at NCP, full array



Dishes pointing up, only in pairs



Next steps for cross-coupling simulation

From October 2020:

- Use more accurate values for Tsys for each receiver, including frequency dependence. Still an estimate.
- Repeat calculation for more baselines. Done!
- Does magnitude of the simulated and measured 'nightly mean' decrease with baseline length? Not in general.

We are working with Center for High Throughput Computing @ UW Madison to perform such simulations with higher precision.

Discussion

Presentation in the first result paper:

Superposing nightly mean visibilities and simulated crosstalk?

Which section should this belong to?

For more details (CST simulations, delay spectrum analysis, etc.):

https://www.overleaf.com/read/vwmrscszccmg