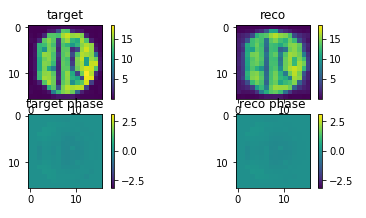
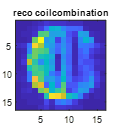
**MRI zero**

1. **Task:** unspoiled GRE **– Target:** spoiled GRE
2. **Task:** spoiled GRE with SAR cost - **Target:** spoiled GRE
3. **Task:** RARE without spoilers **- Target:** RARE with spoilers
4. **Task:** spoiled RARE with SAR cost - **Target:** spoiled RARE

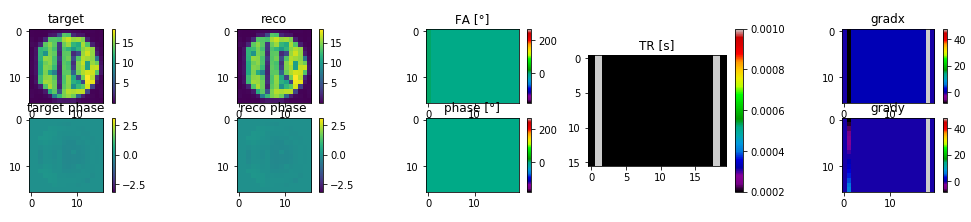
**27.03.2019**



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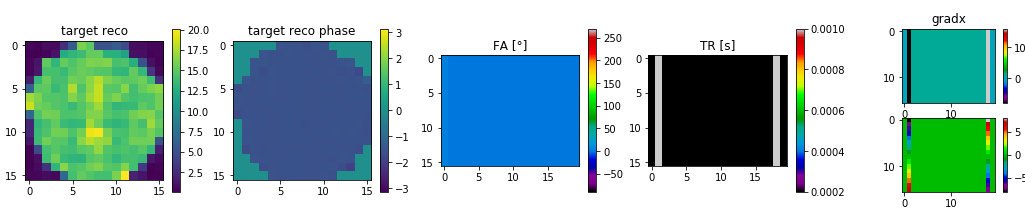
**Left GRE, right lowSAR GRE**

**Numerical phantom added from measured 2D phantom.**

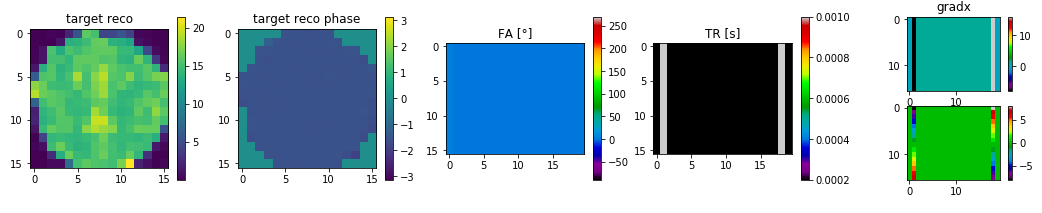


**check for spoiling here: Nspins min 25^2**

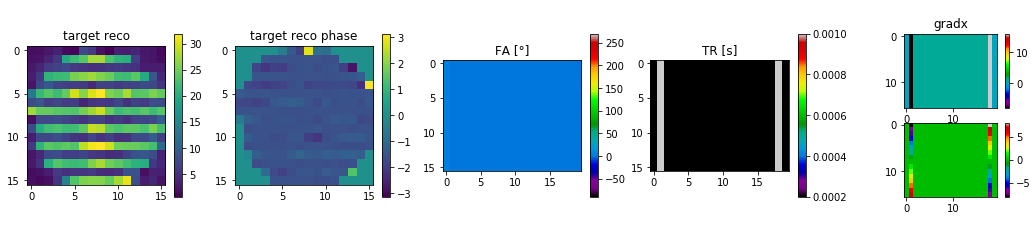
**Div by sz-1**



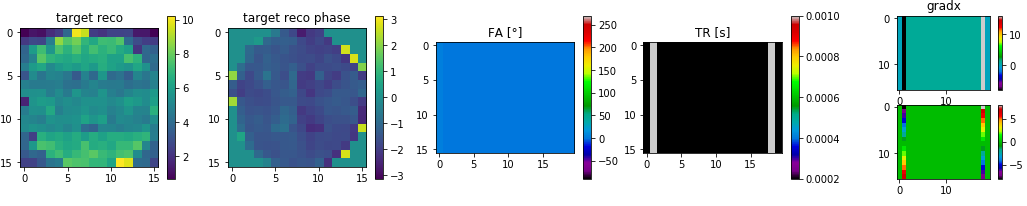
**Div by sz**



**12^2 spins**

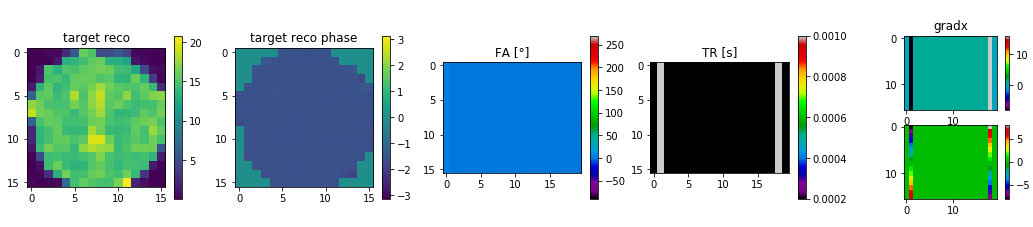


**Spin distribution within voxel, off=0**

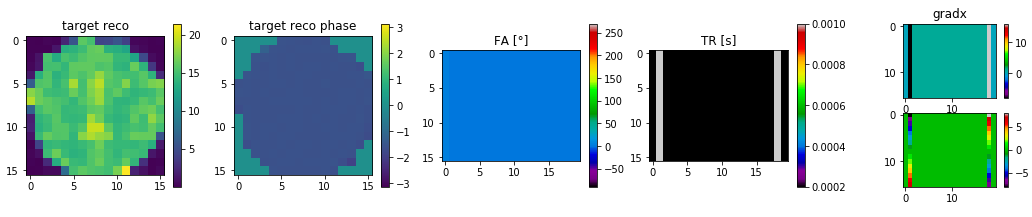


**Spin distribution within voxel, off=1/dim**

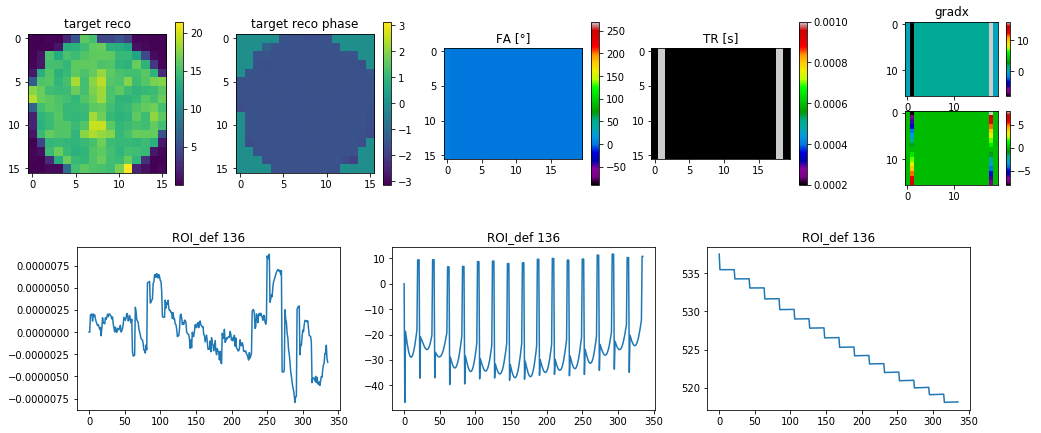
**26^2 spins**



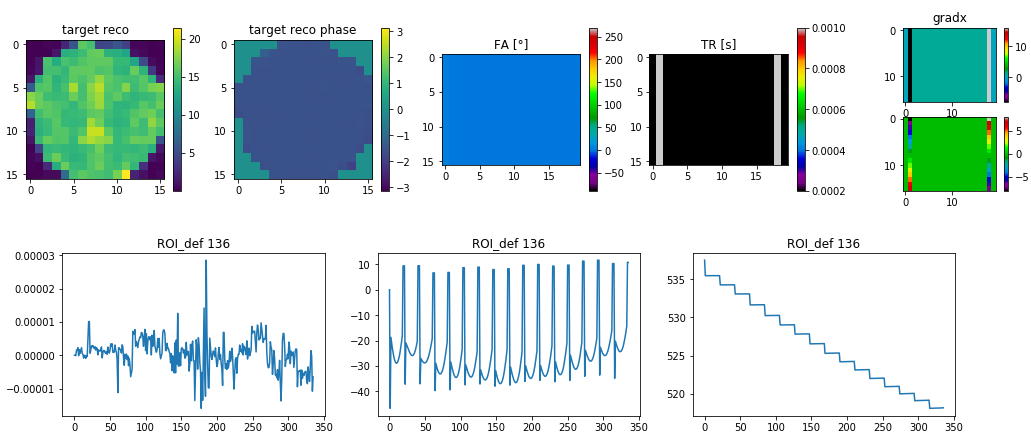
**Spin distribution within voxel, off=0**



**Spin distribution within voxel, off=1/dim**



**Spoiled GRE: With pervec**

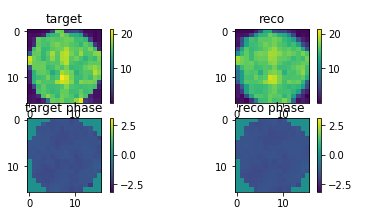


**Spoiled GRE: Without pervec**

**27.03.2019**

**Low SAR GRE optimized**

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**Hooray!**

**26.03.2019**

**Try the following experiments:**

1. spoiled GRE (RF and gradient) x2negy****
2. **spoiled GRE (RF spoiled x2y2**

****

1. unspoiled GRE (Rf spoiled, no gradient)

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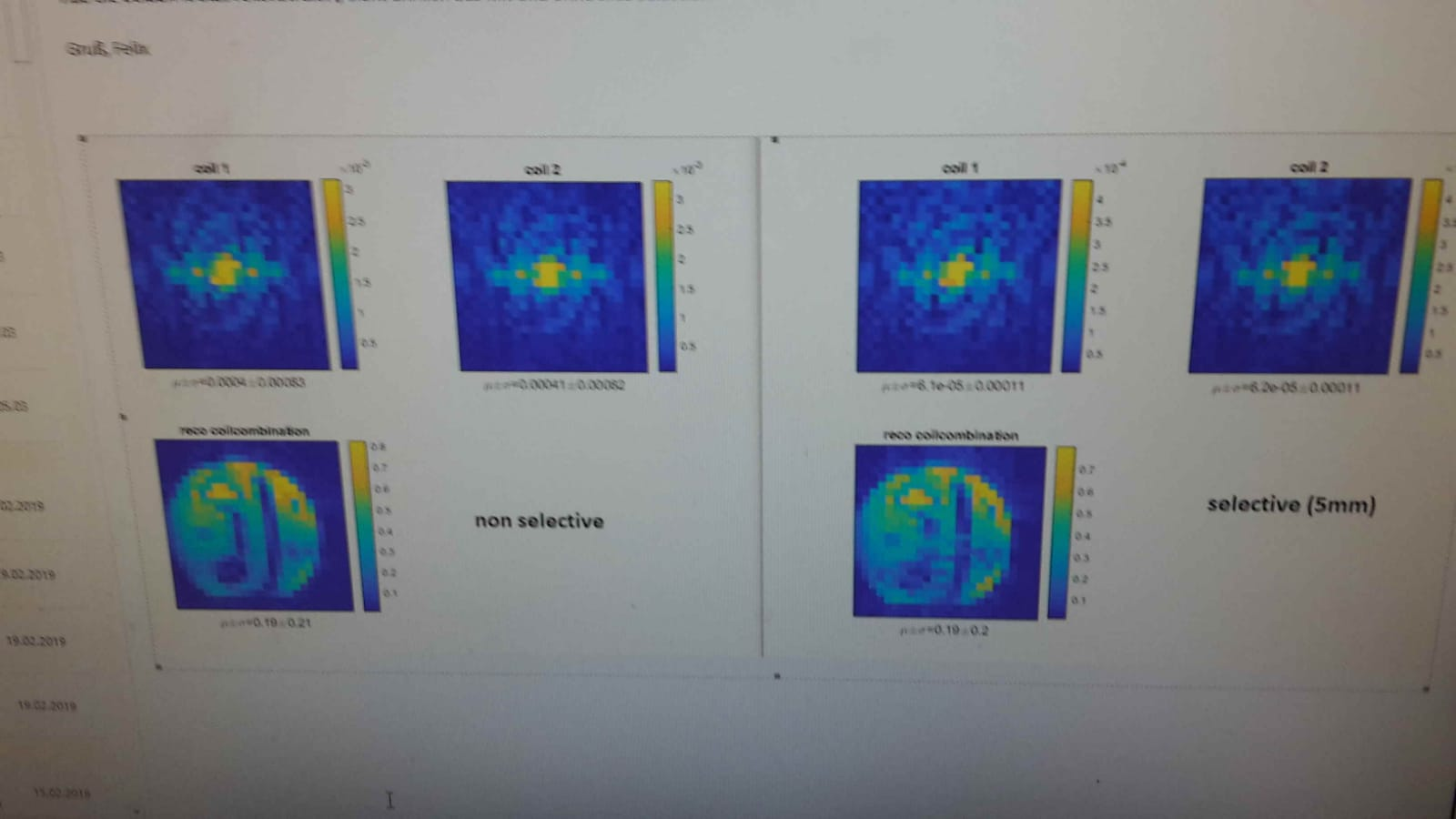
1. **unspoiled (no grad, no RF)**



**25.03.2019**

found problem deep in sumulation: we modeled until now deltafunction, now change to continuum

**11.03.2019 – RARE 2D with spoilers added**



**11.03.2019 – first RARE 2D results – no spoilers**

