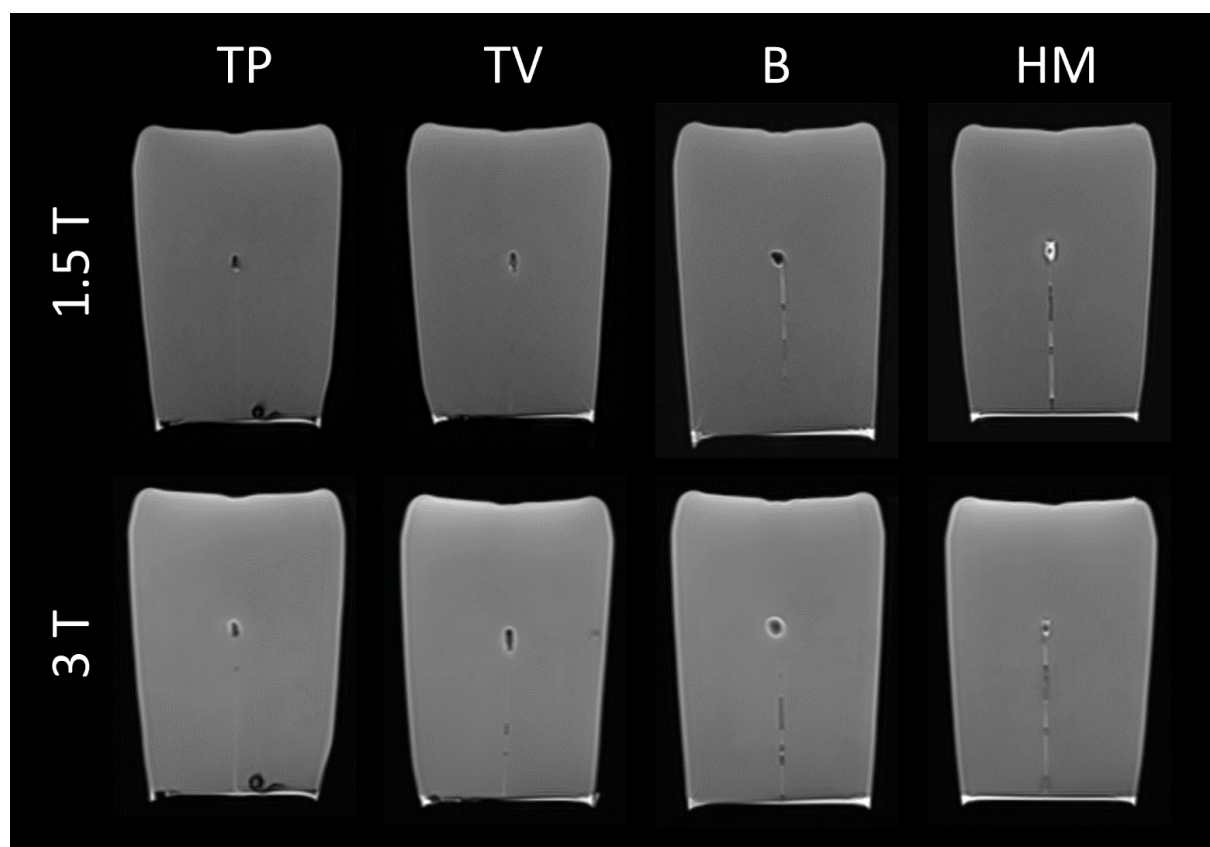


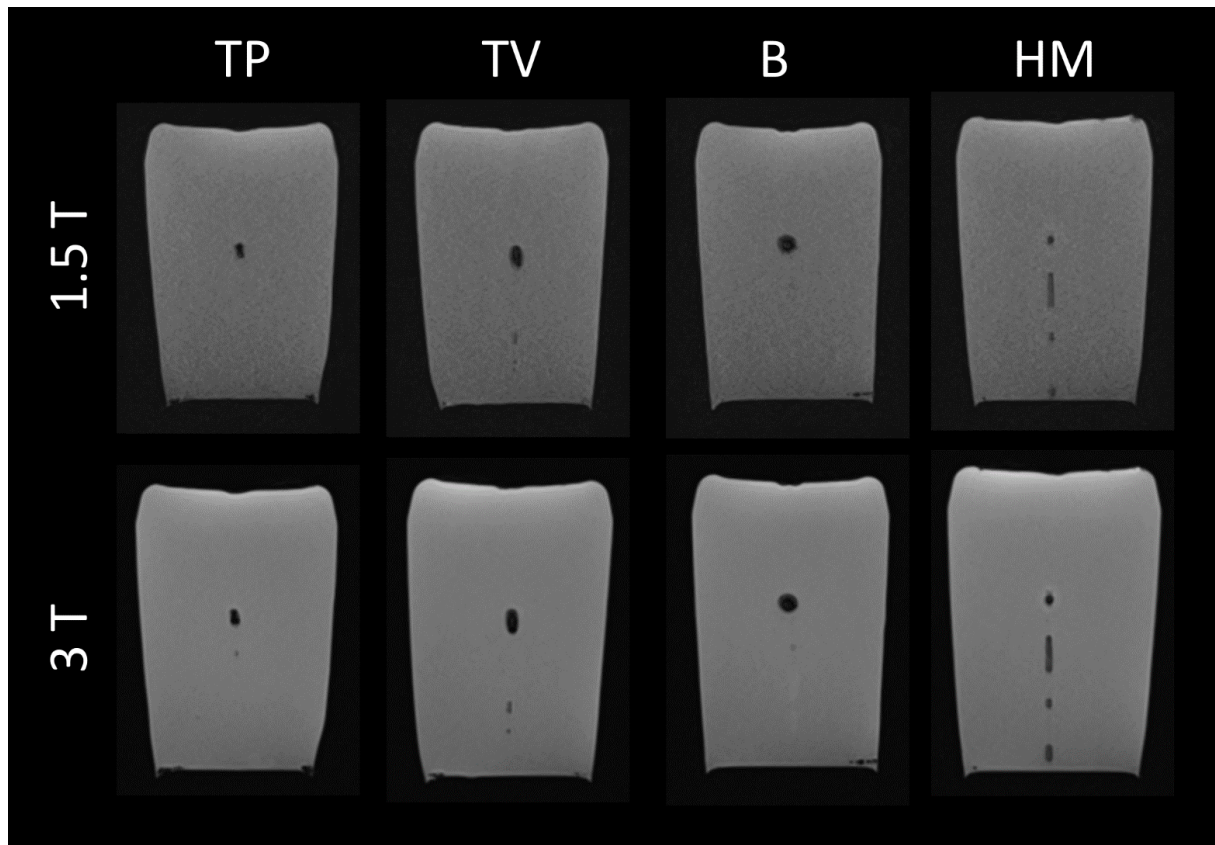
Quantification of breast biopsy clip marker artifact on routine breast MRI sequences: a phantom study

ELECTRONIC SUPPLEMENTARY MATERIAL



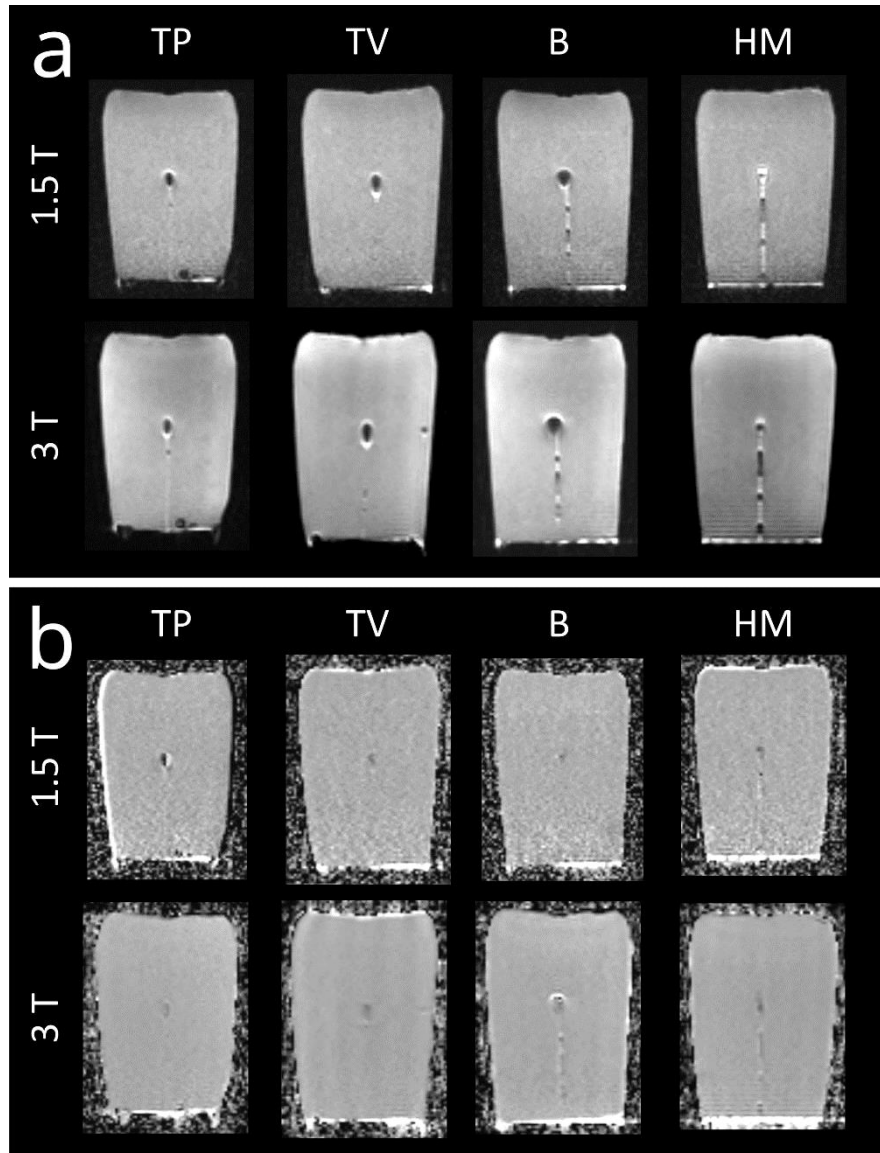
Supplementary figure S1:

Typical images for t2-tirm showing the slice with the largest appearance of the artifact for all markers at 1.5T and 3T. Artifacts presented as a signal void and a bright rim for all clips except for HM, which showed a marked signal increase and a dark rim.



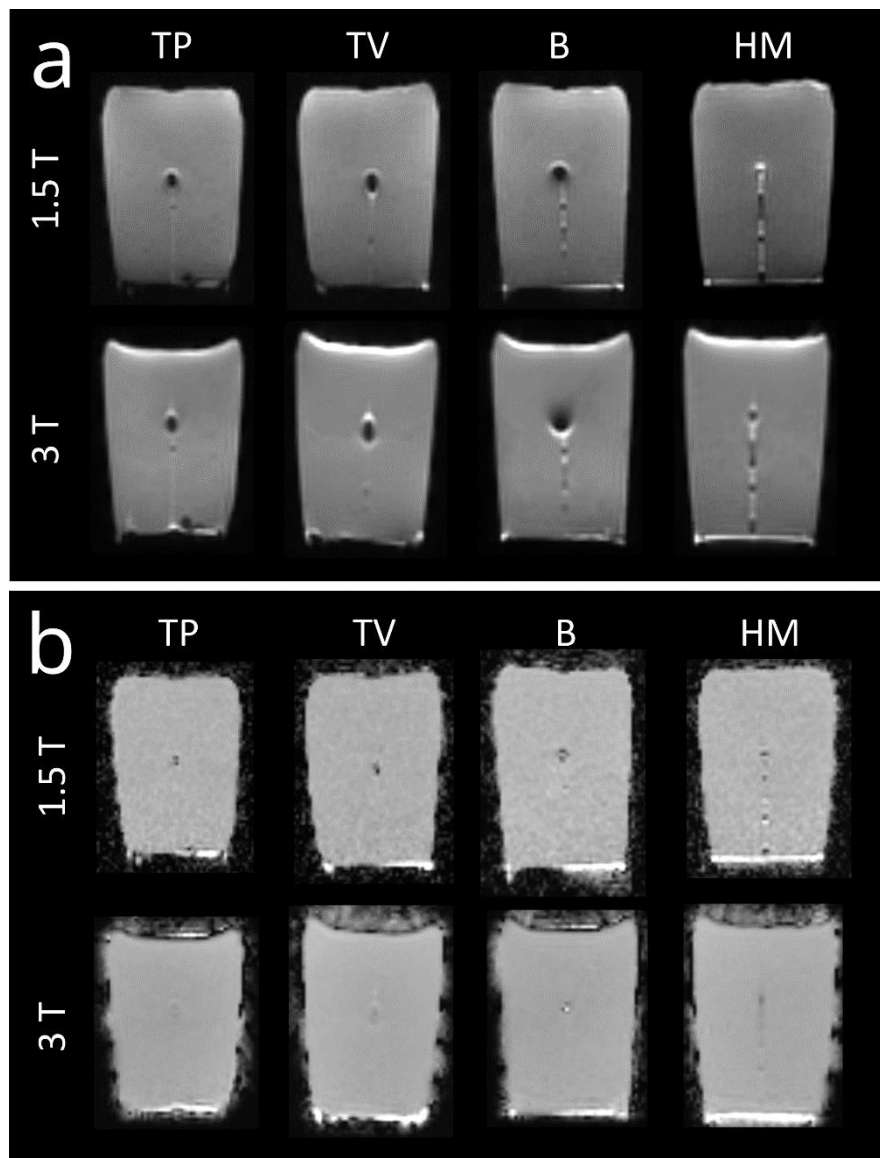
Supplementary figure S2:

Typical images for t1_fl3d showing the slice with the largest appearance of the artifact for all markers at 1.5T and 3T. For the t1_fl3d sequence, a signal void was observed for all markers.



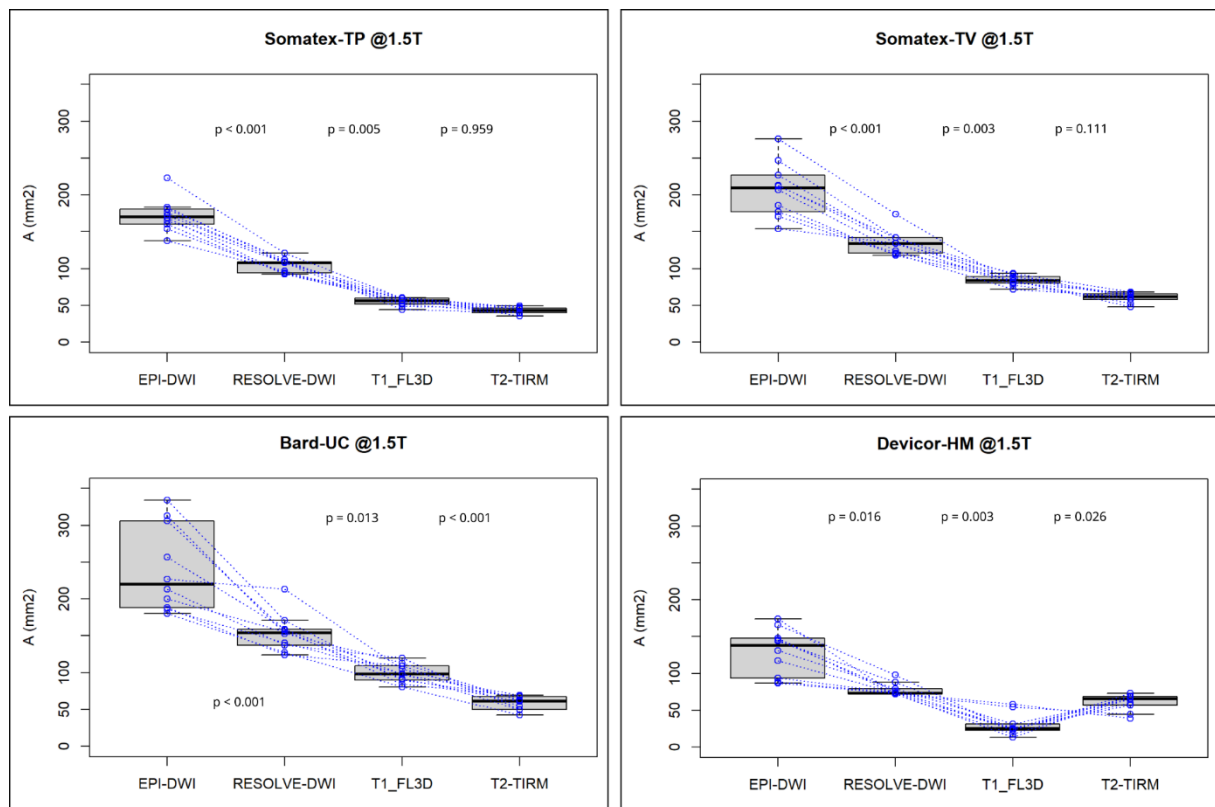
Supplementary figure S3:

Typical images for Resolve-DWI (a) and Resolve-ADC (b) showing the slice with the largest appearance of the artifact for all markers at 1.5T and 3T. On Resolve-DWI images artifacts presented as a signal void and a bright rim for all. A significant decrease of artifact area for all clips from DWI to ADC images was found.



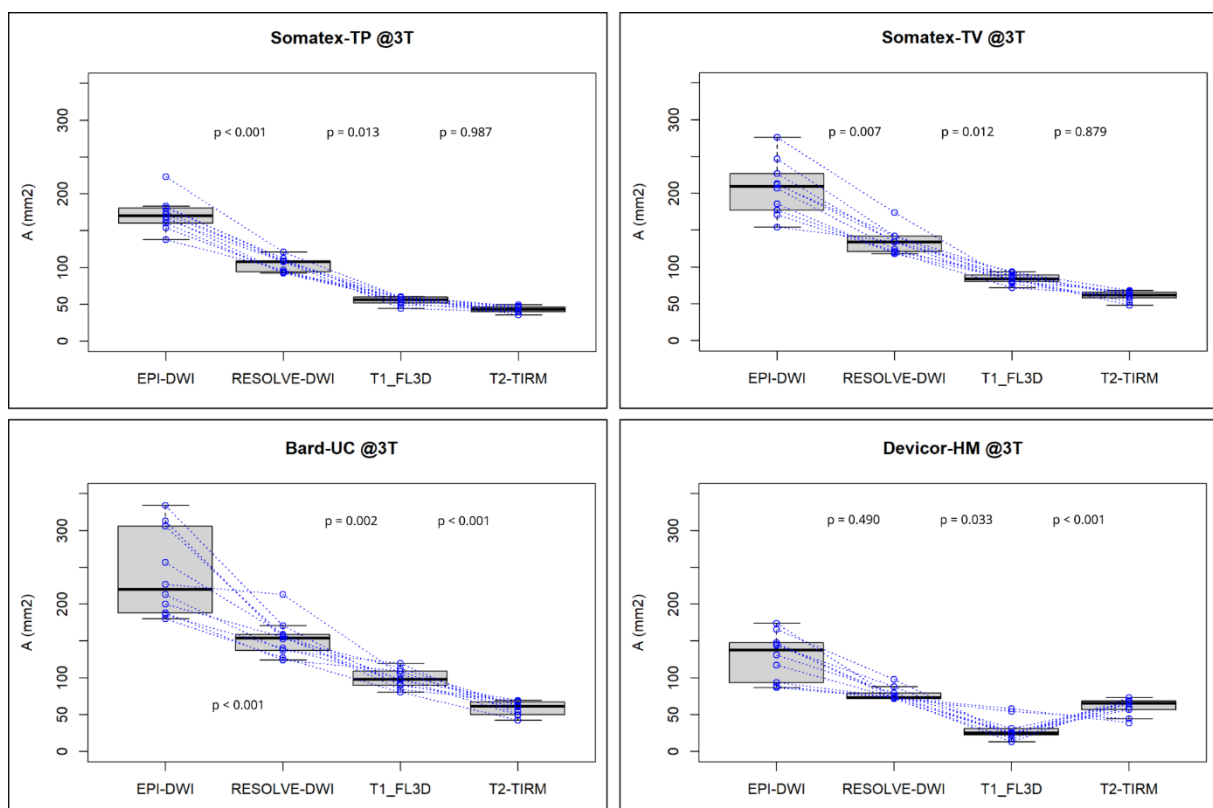
Supplementary figure S4:

Typical images for EPI-DWI (a) and EPI-ADC (b) showing the slice with the largest appearance of the artifact for all markers at 1.5T and 3T. On EPI-DWI images artifacts presented as a signal void and a bright rim for all. A significant decrease of artifact area for all clips from DWI to ADC images was found.



Supplementary figure S5:

Comparison of artifact area between the investigated sequences for the different clips at 1.5 T



Supplementary figure S6:

Comparison of artifact area between the investigated sequences for the different clips at 3 T