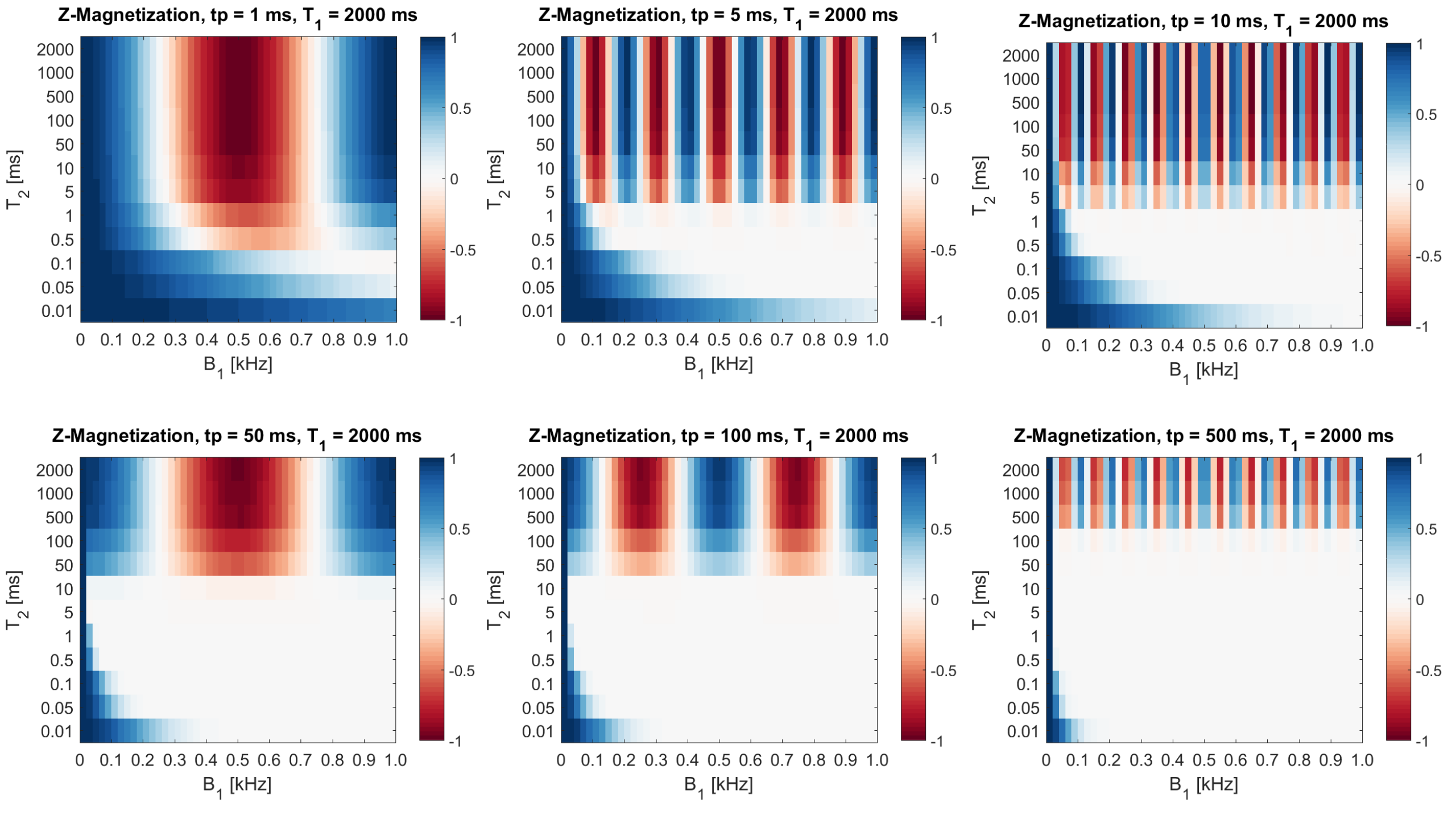
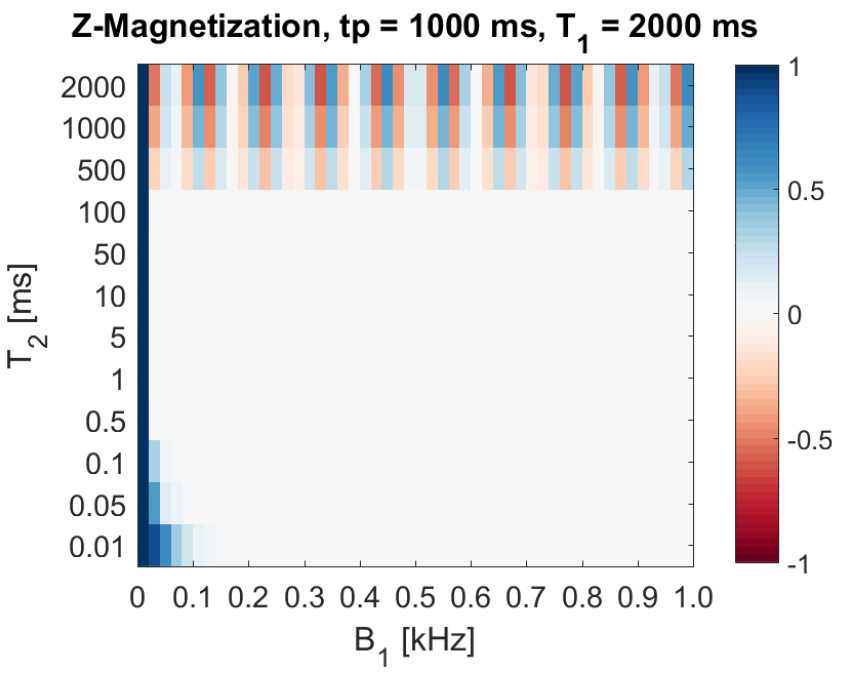
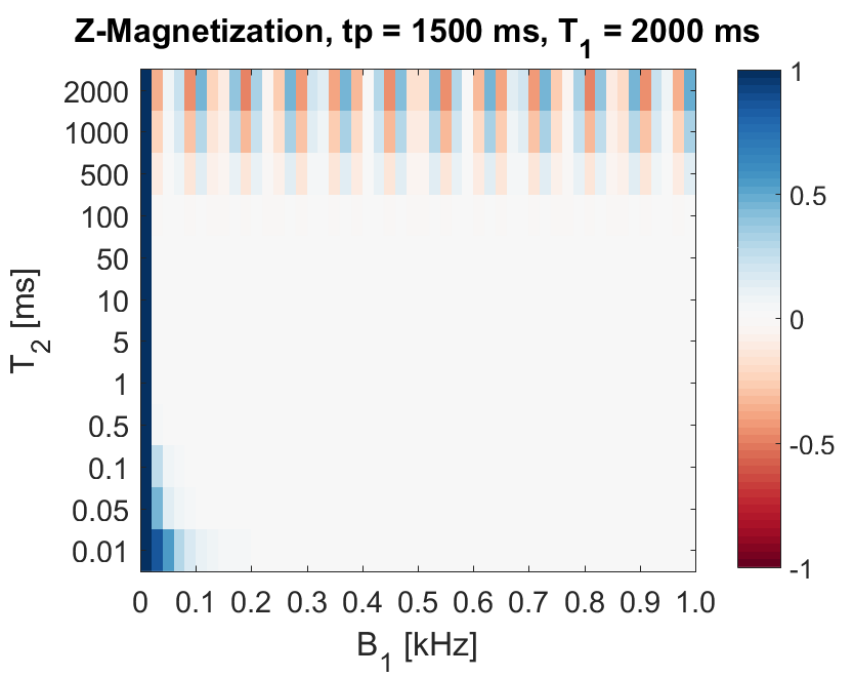
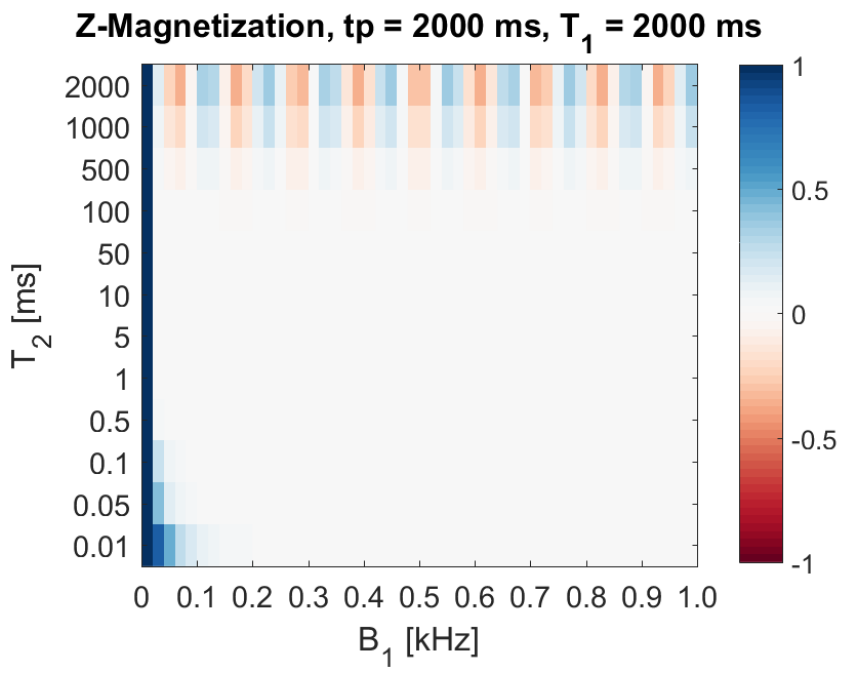
Plot of Z-Magnetization in dependence of T2 and B1

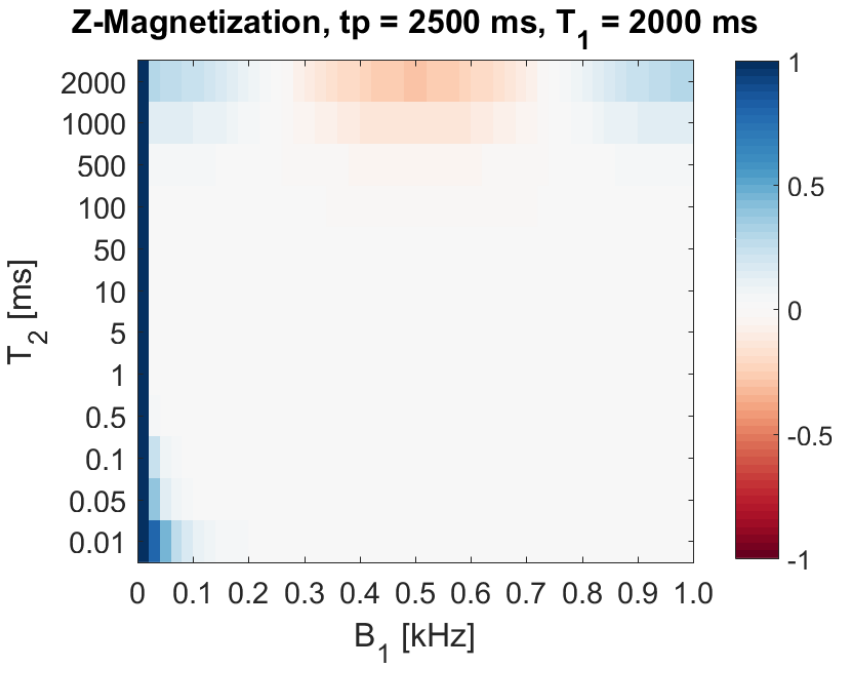
T1 = 2000 ms

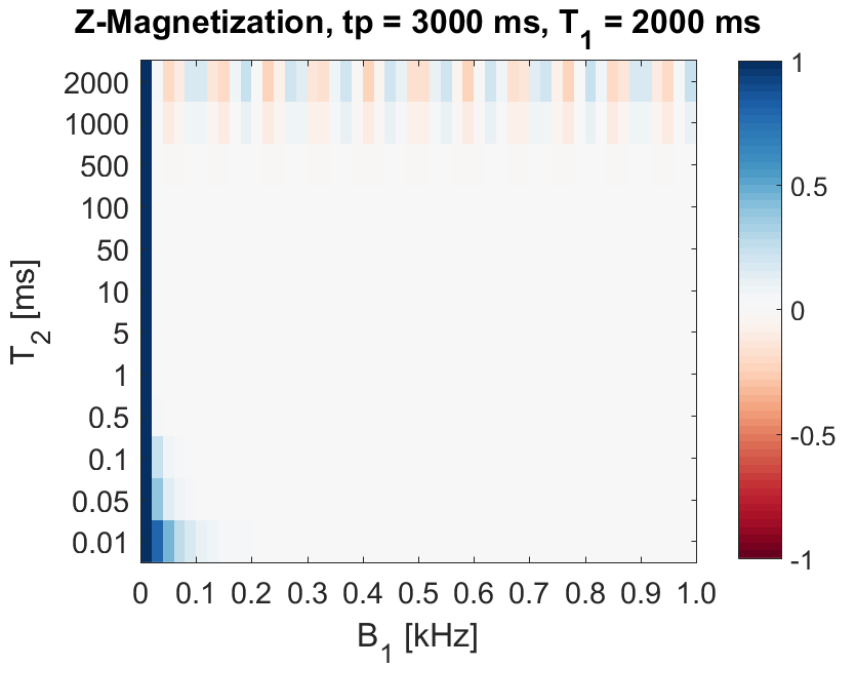

Z-Magnetization, tp = 1 ms, T1 = 2000 ms
Z-Magnetization, tp = 5 ms, T1 = 2000 ms
Z-Magnetization, tp = 10 ms, T1 = 2000 ms
Z-Magnetization, tp = 50 ms, T1 = 2000 ms
Z-Magnetization, tp = 100 ms, T1 = 2000 ms
Z-Magnetization, tp = 500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
B1 [kHz]
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
1
0.5
0
-0.5
-1

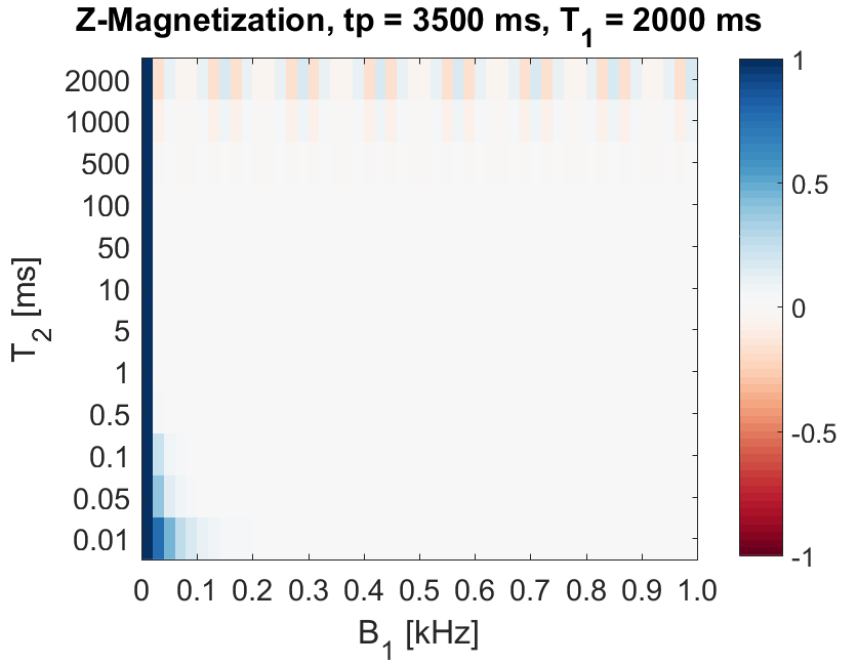

Z-Magnetization, tp = 1000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

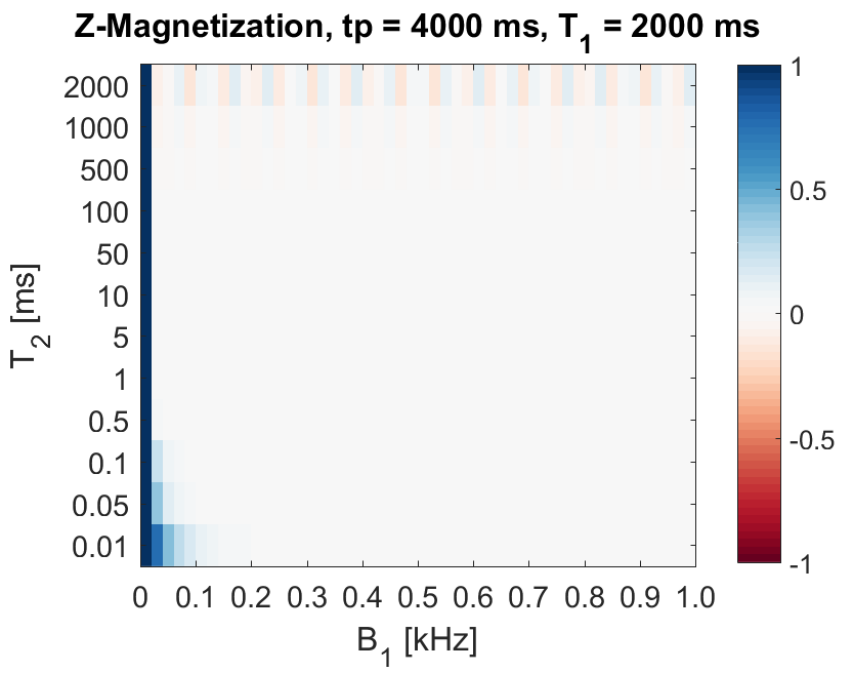

Z-Magnetization, tp = 1500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

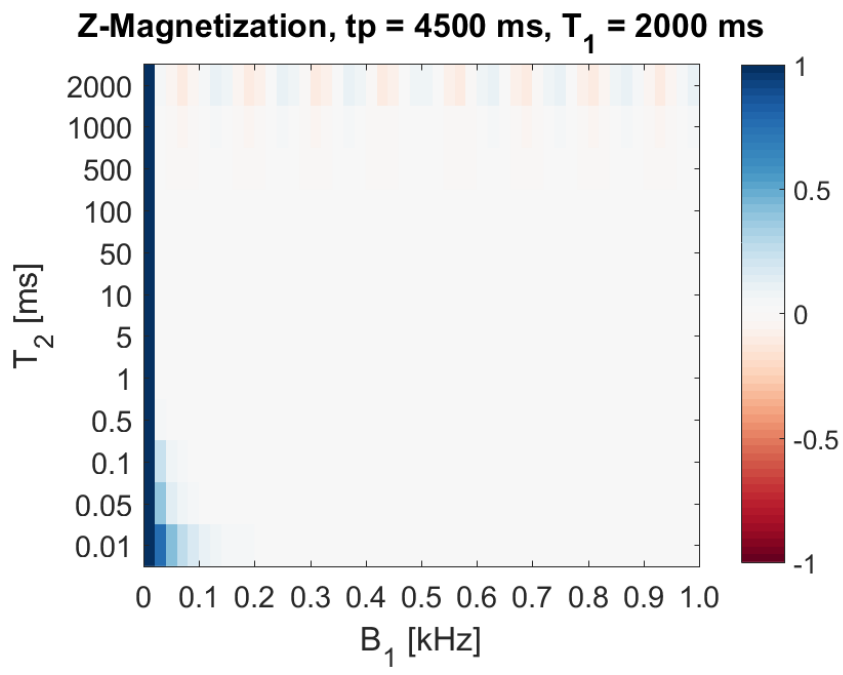

Z-Magnetization, tp = 2000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

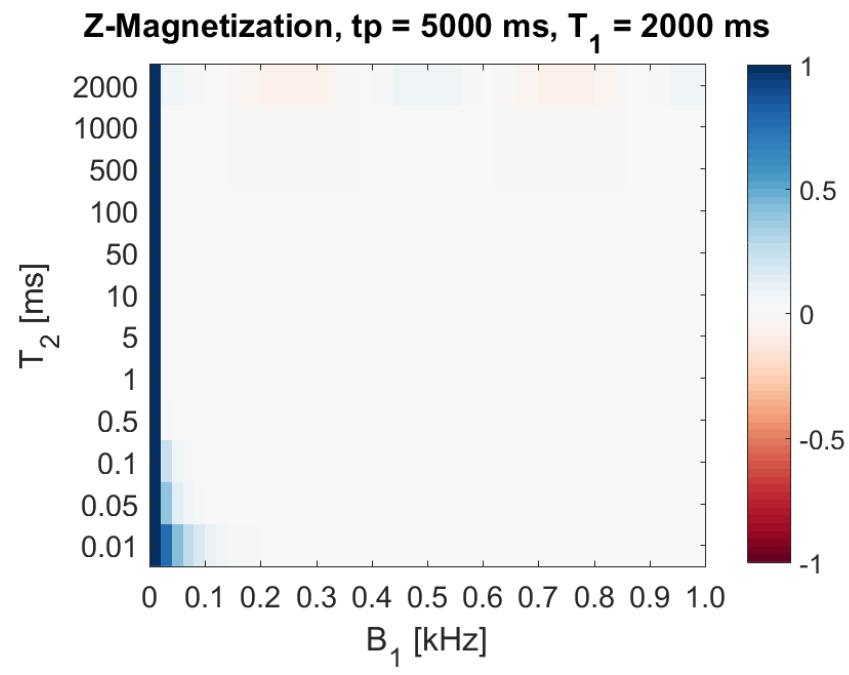

Z-Magnetization, tp = 2500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

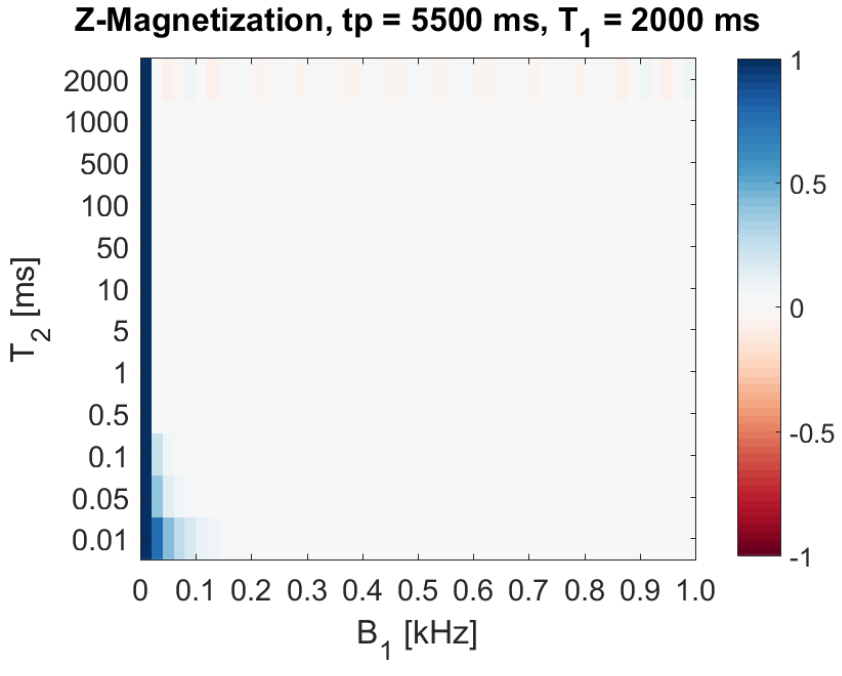

Z-Magnetization, tp = 3000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

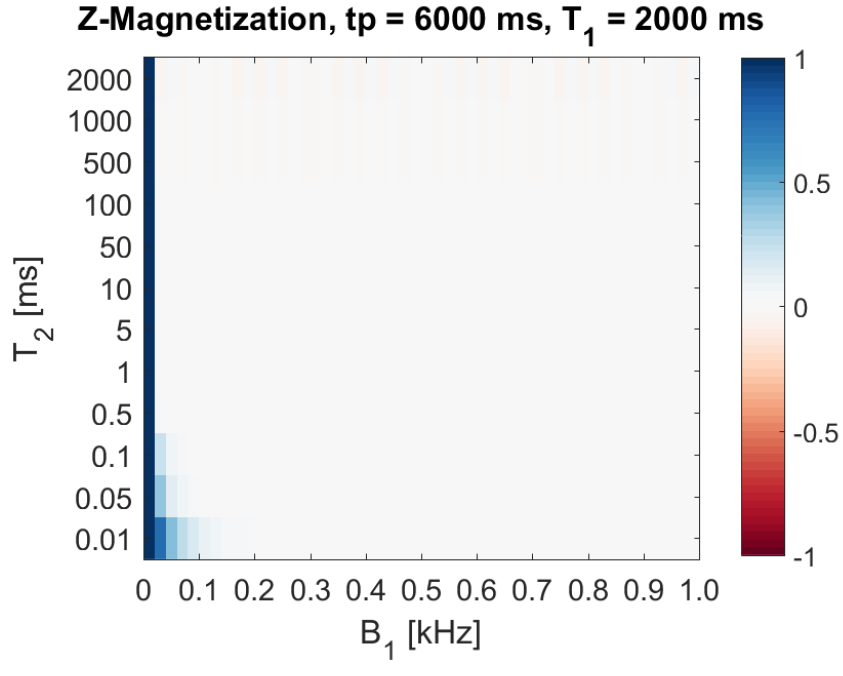

Z-Magnetization, tp = 3500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

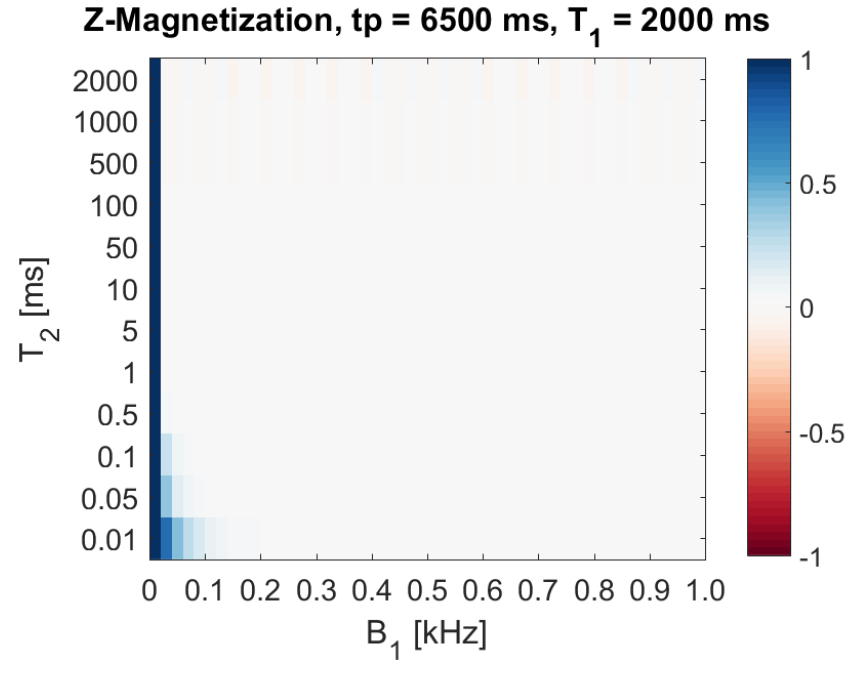

Z-Magnetization, tp = 4000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 4500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 5000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 5500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

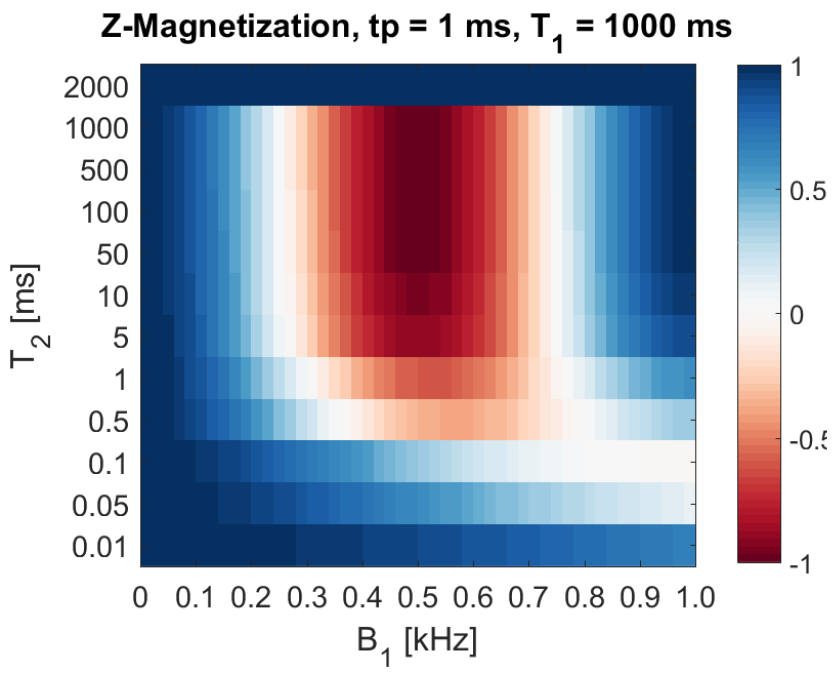

Z-Magnetization, tp = 6000 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

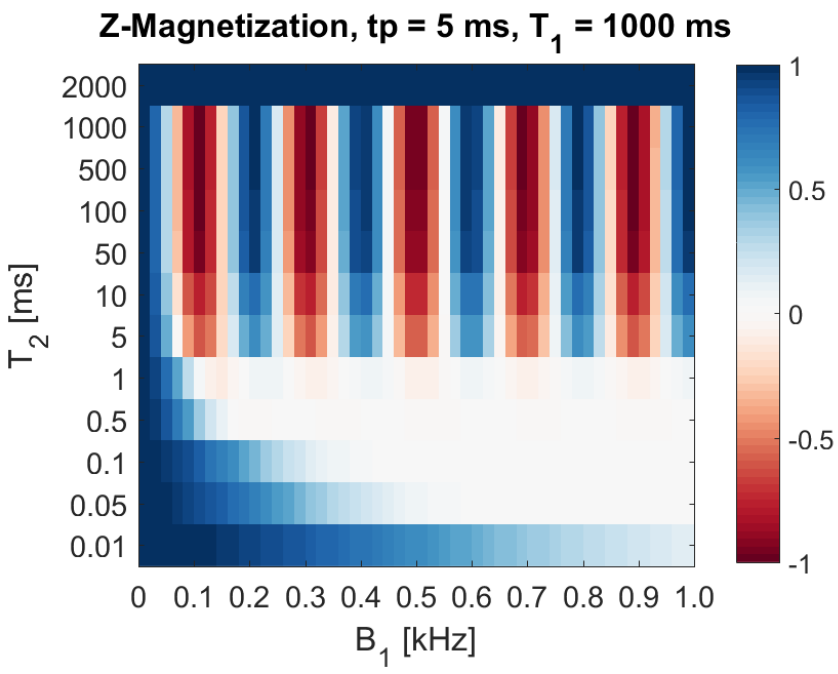

Z-Magnetization, tp = 6500 ms, T1 = 2000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

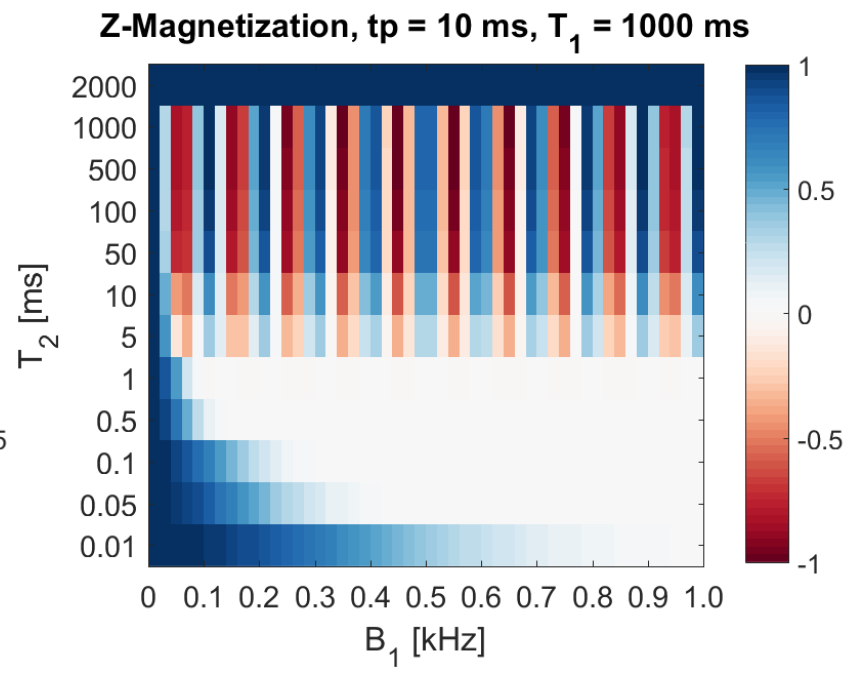
Plot of Z-Magnetization in dependence of T2 and B1

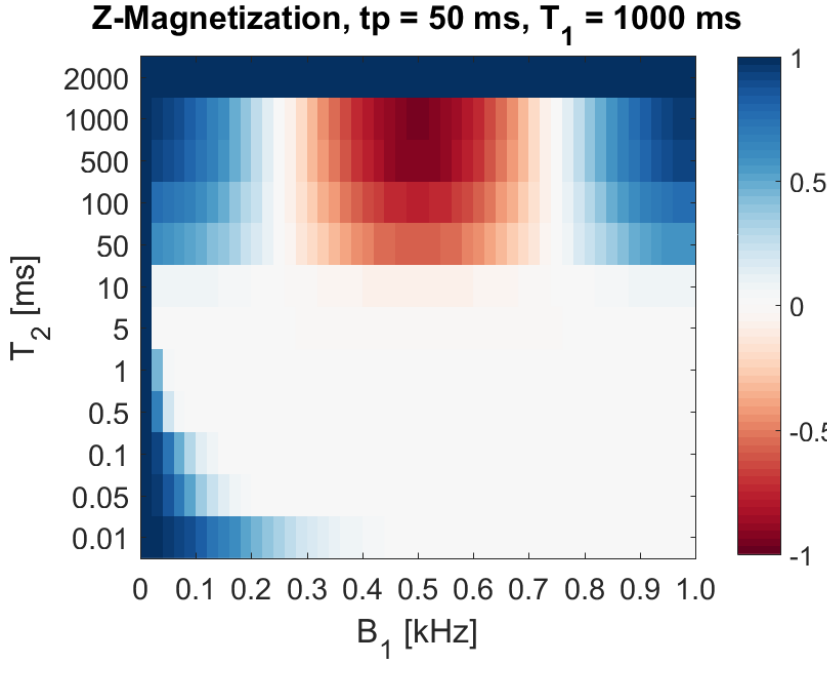
T1 = 1000 ms

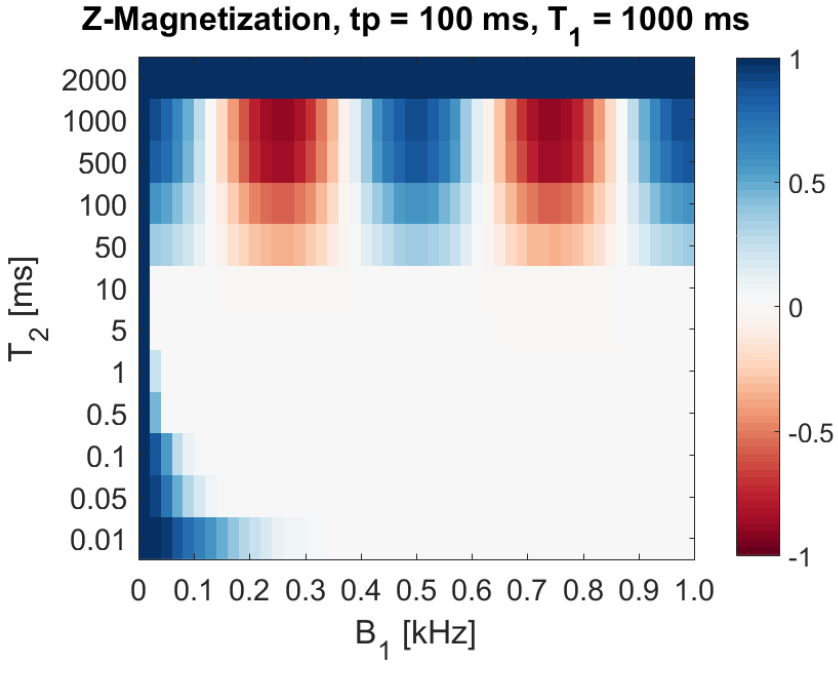
areas of the figure with T2 > T1 are blended out (blue)

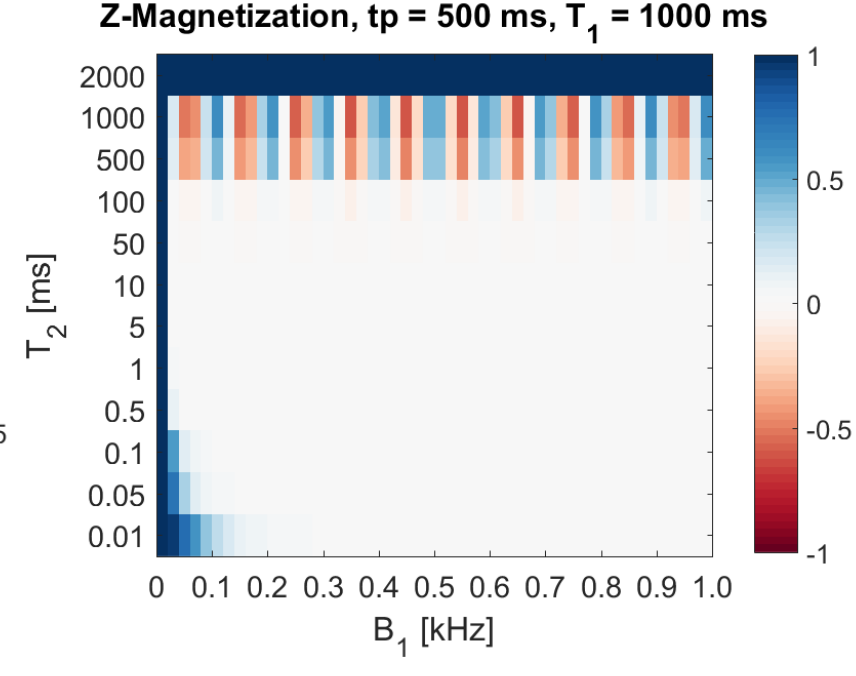

Z-Magnetization, tp = 1 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

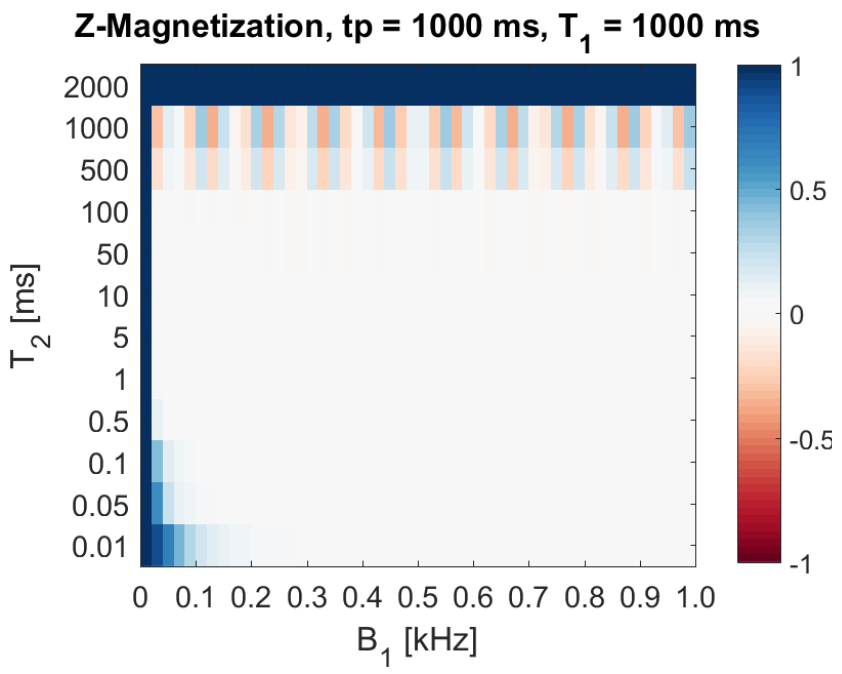

Z-Magnetization, tp = 5 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

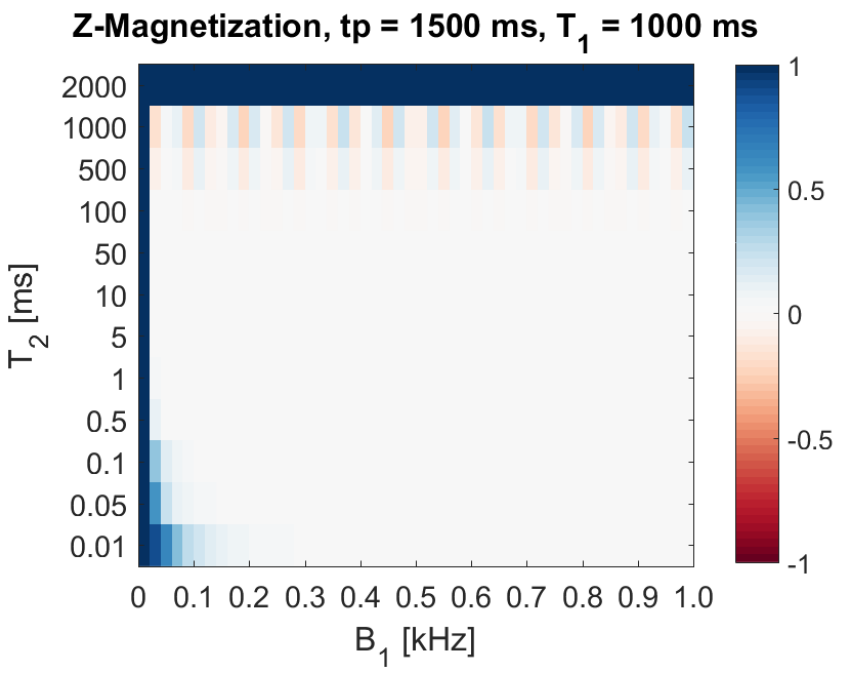

Z-Magnetization, tp = 10 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

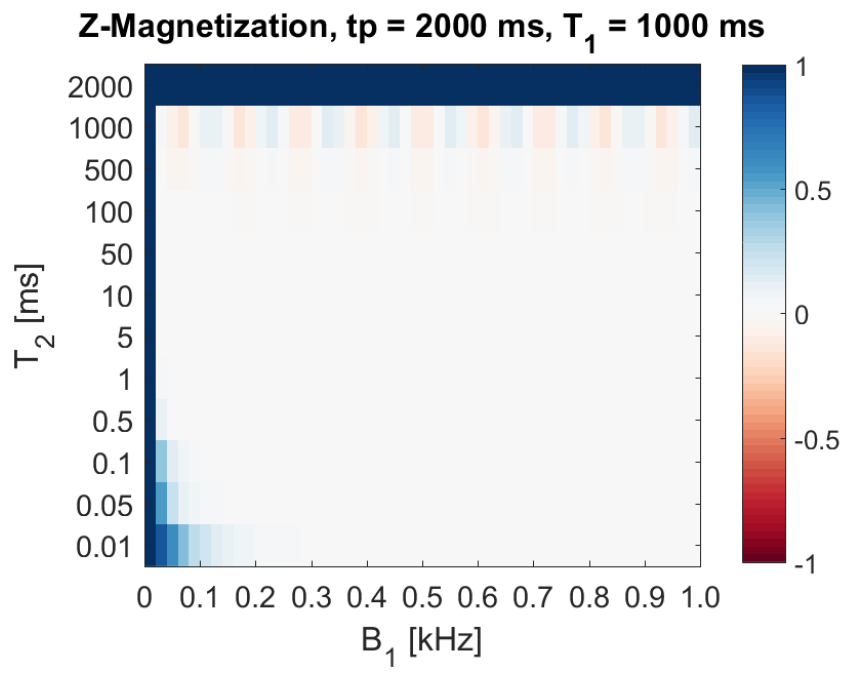

Z-Magnetization, tp = 50 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

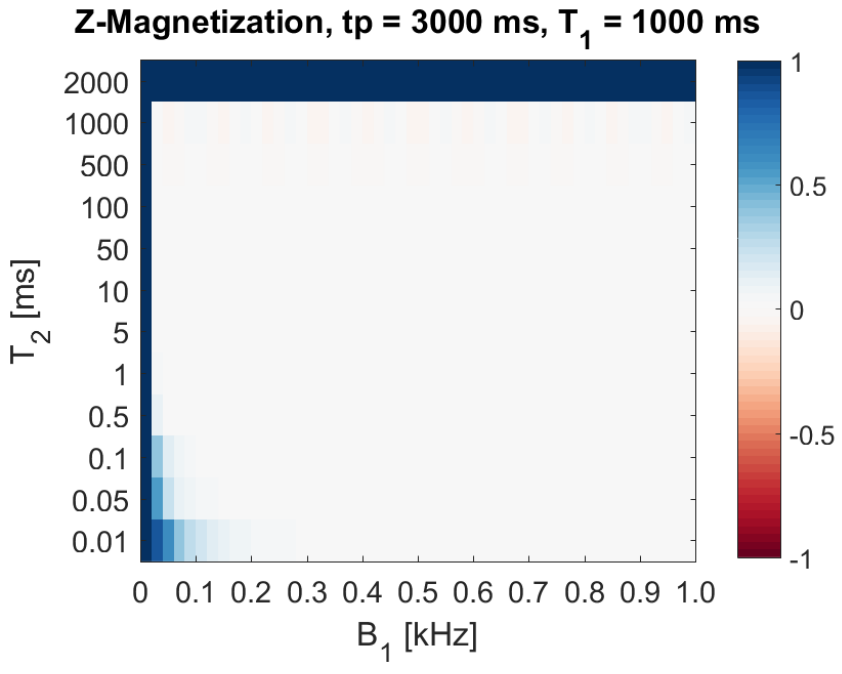

Z-Magnetization, tp = 100 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

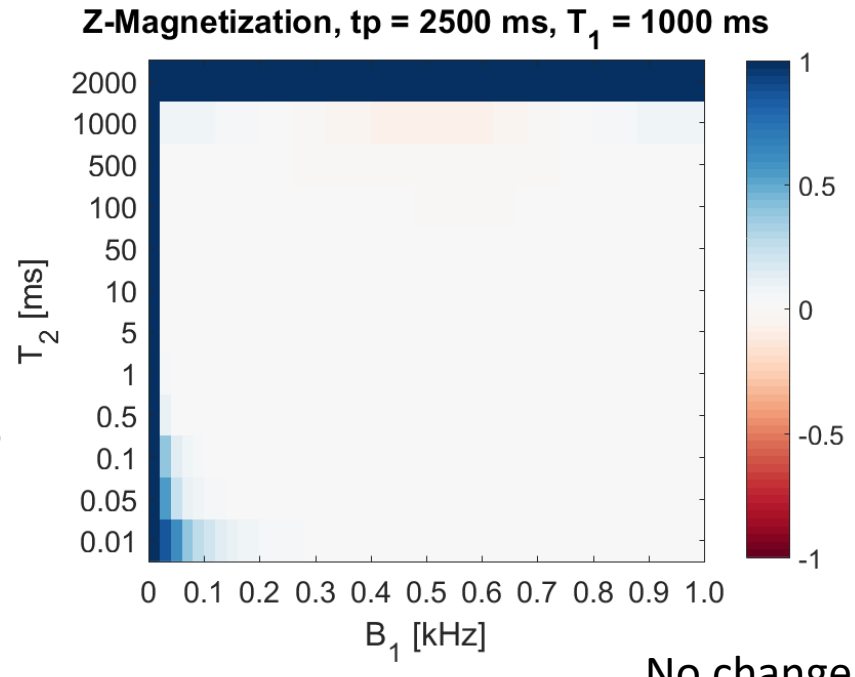

Z-Magnetization, tp = 500 ms, T1 = 1000 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

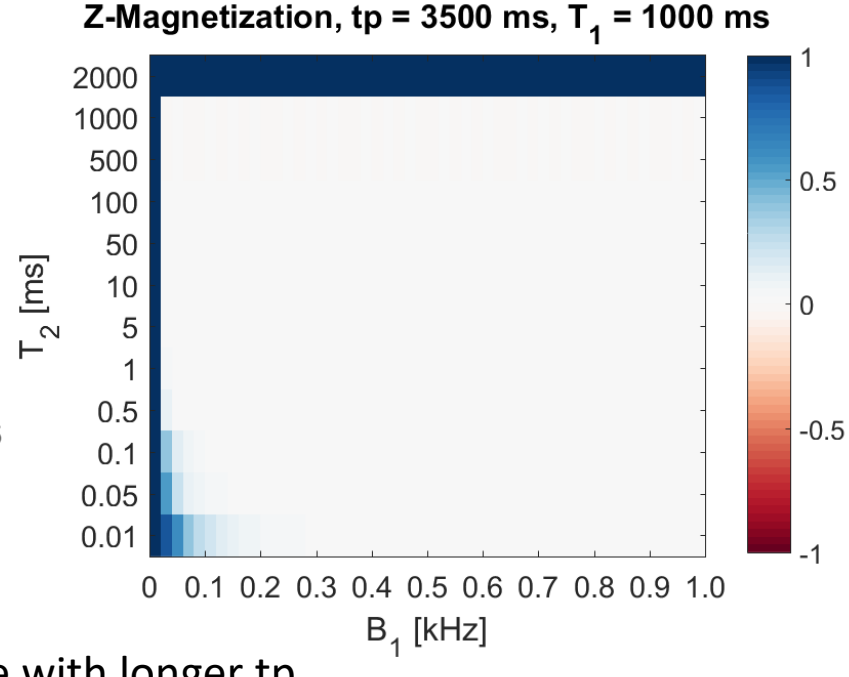










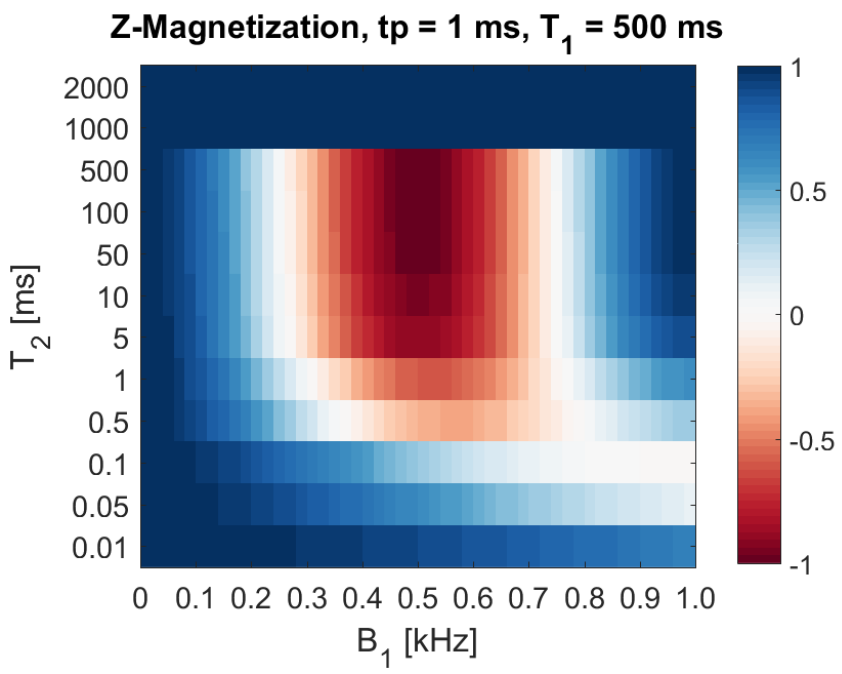


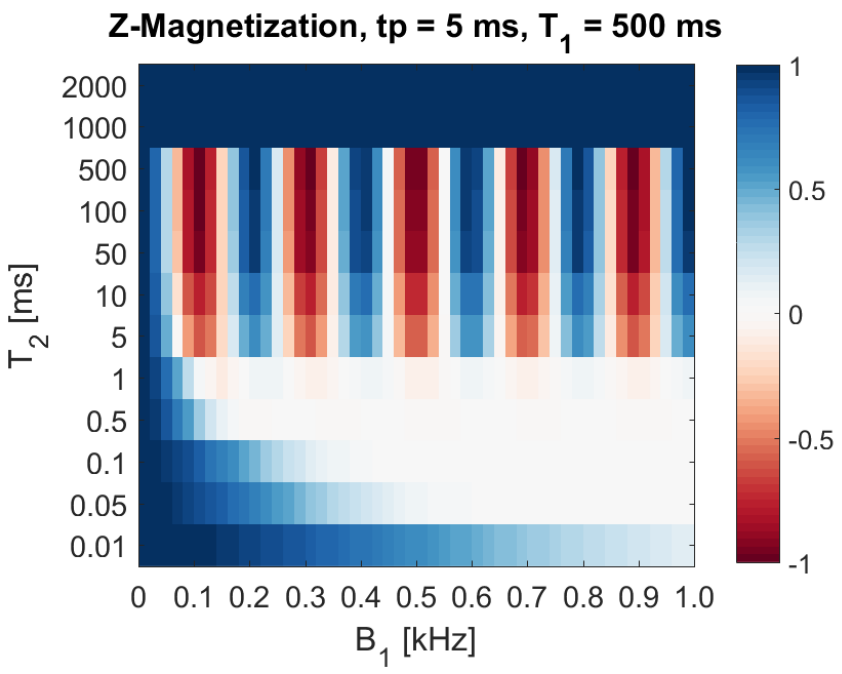
No change with longer tp

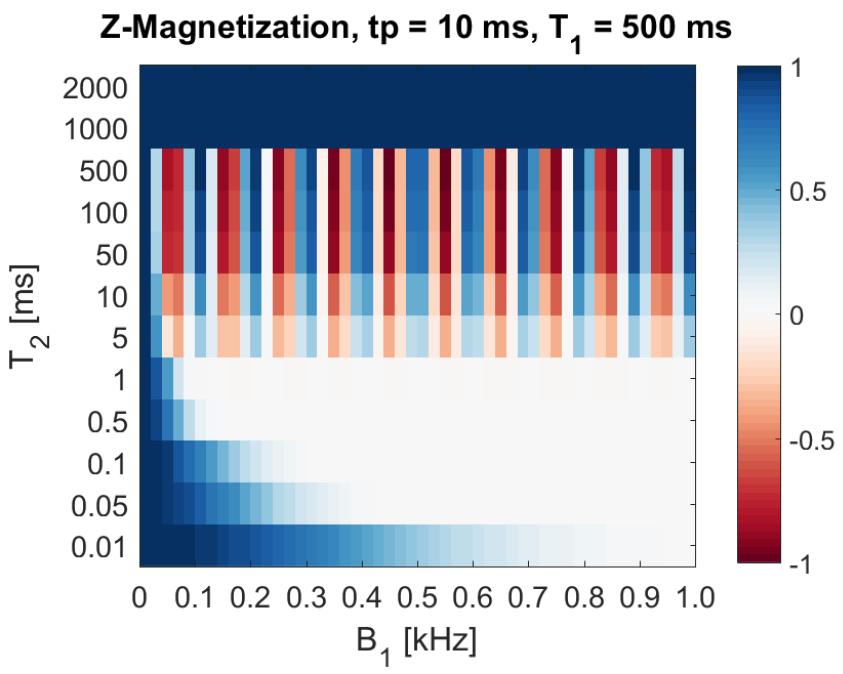
Plot of Z-Magnetization in dependence of T2 and B1

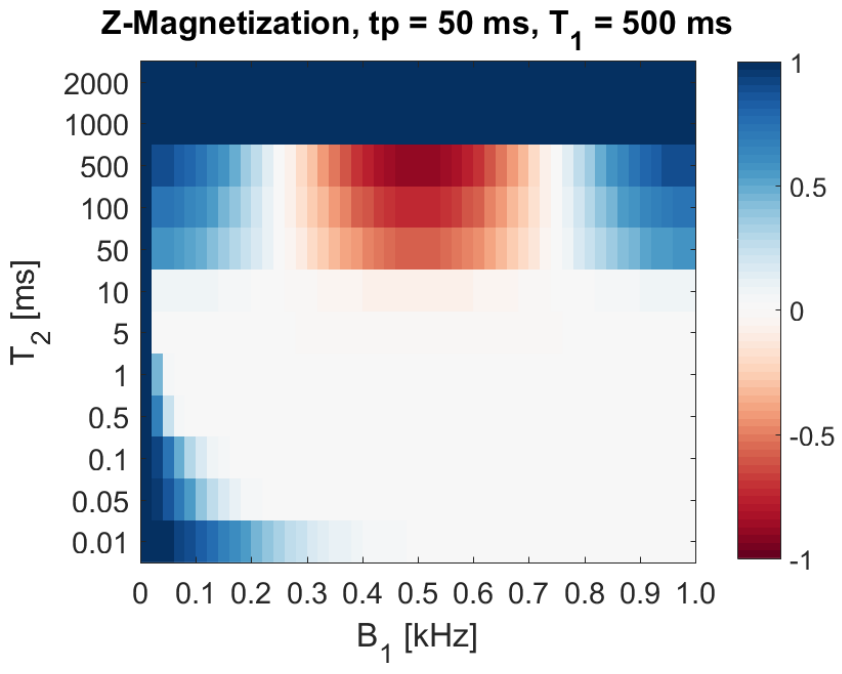
T1 = 500 ms

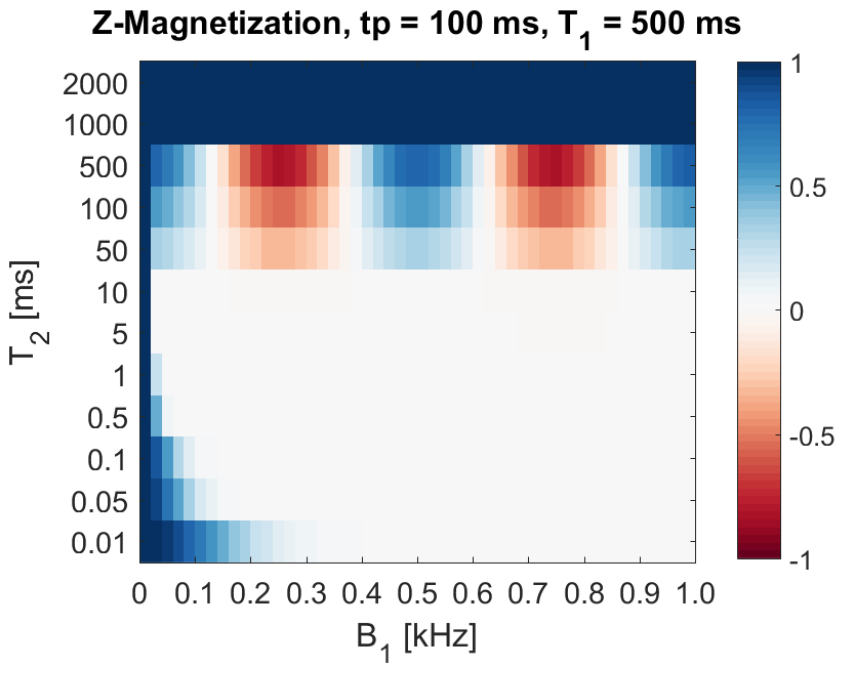
areas of the figure with T2 > T1 are blended out (blue)

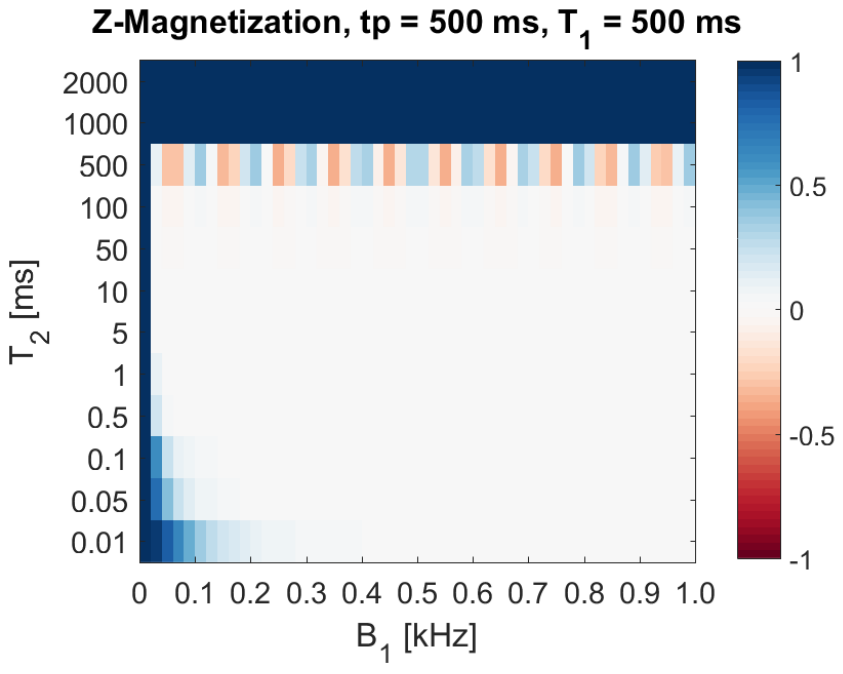

Z-Magnetization, tp = 1 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

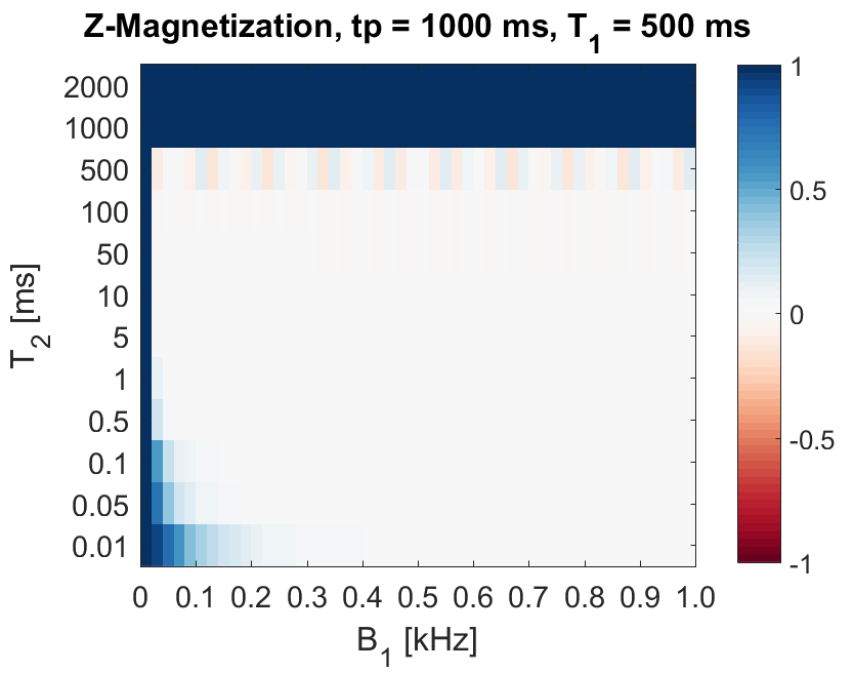

Z-Magnetization, tp = 5 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1

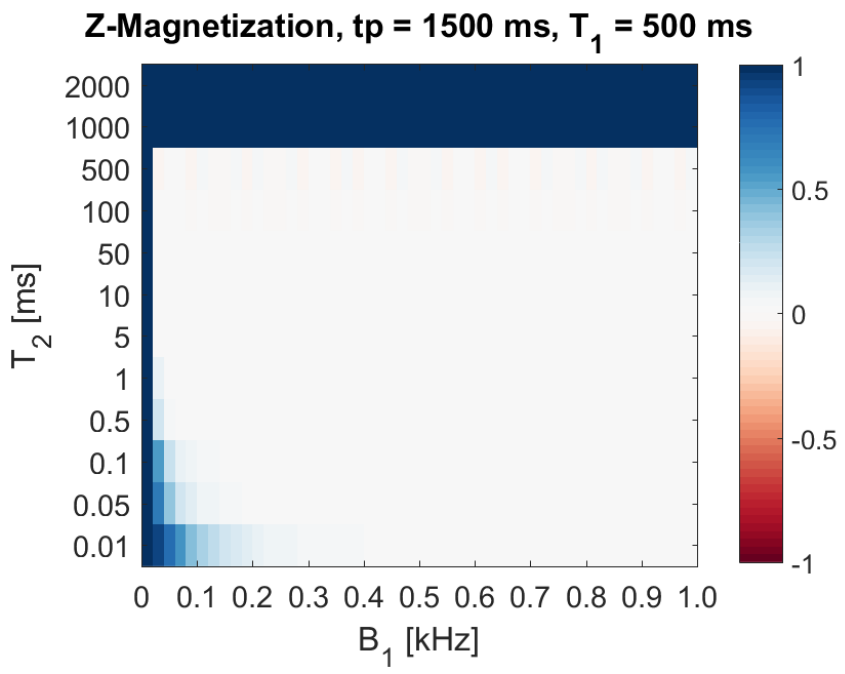

Z-Magnetization, tp = 10 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 50 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 100 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1


Z-Magnetization, tp = 500 ms, T1 = 500 ms
T2 [ms]
2000
1000
500
100
50
10
5
1
0.5
0.1
0.05
0.01
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0
B1 [kHz]
1
0.5
0
-0.5
-1



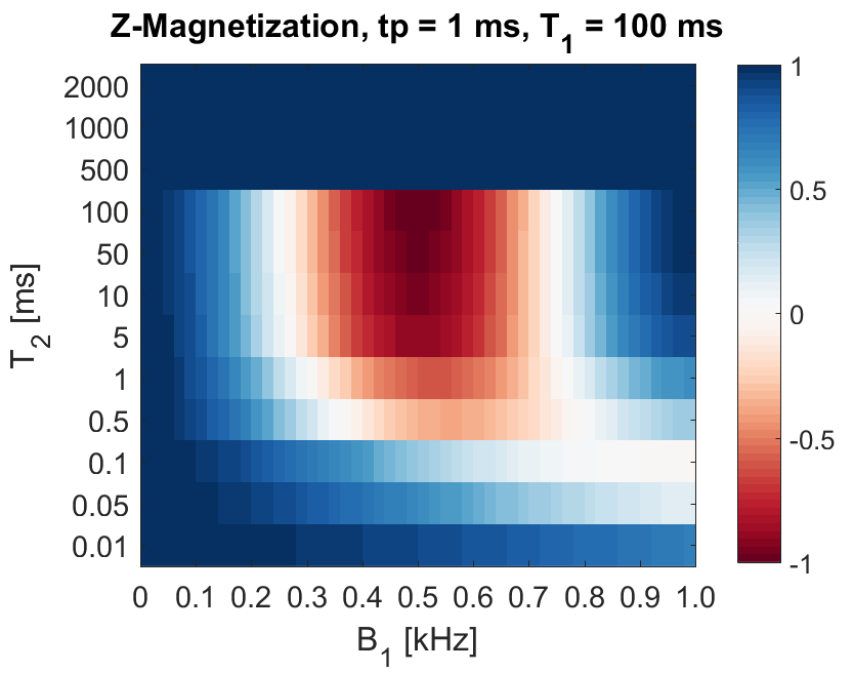


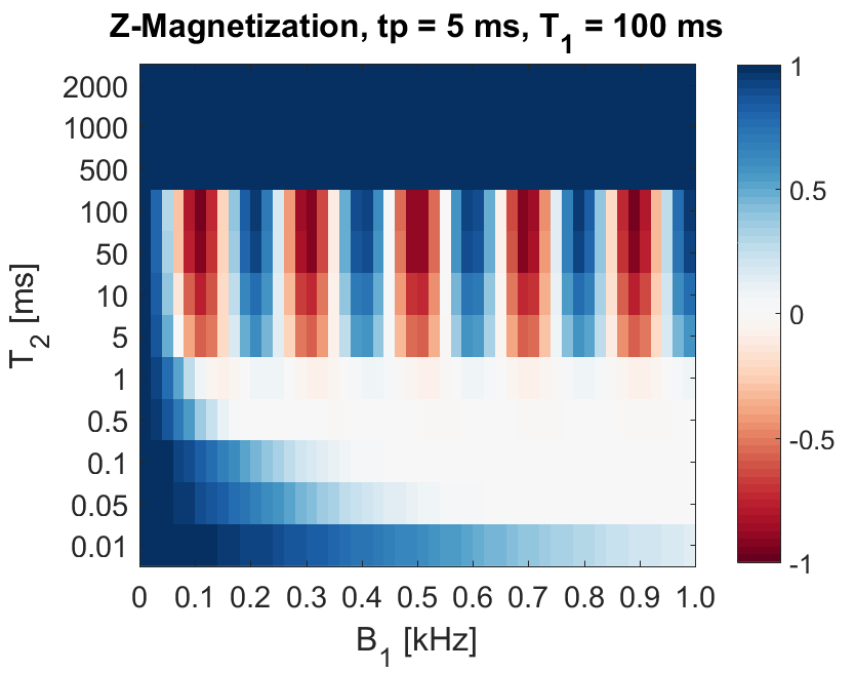
No change with longer tp

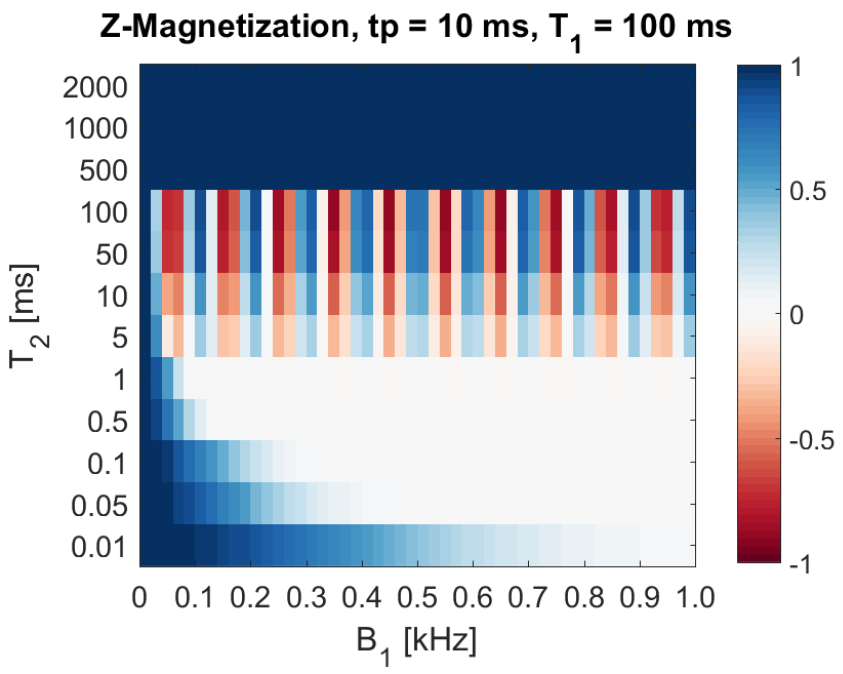
Plot of Z-Magnetization in dependence of T2 and B1

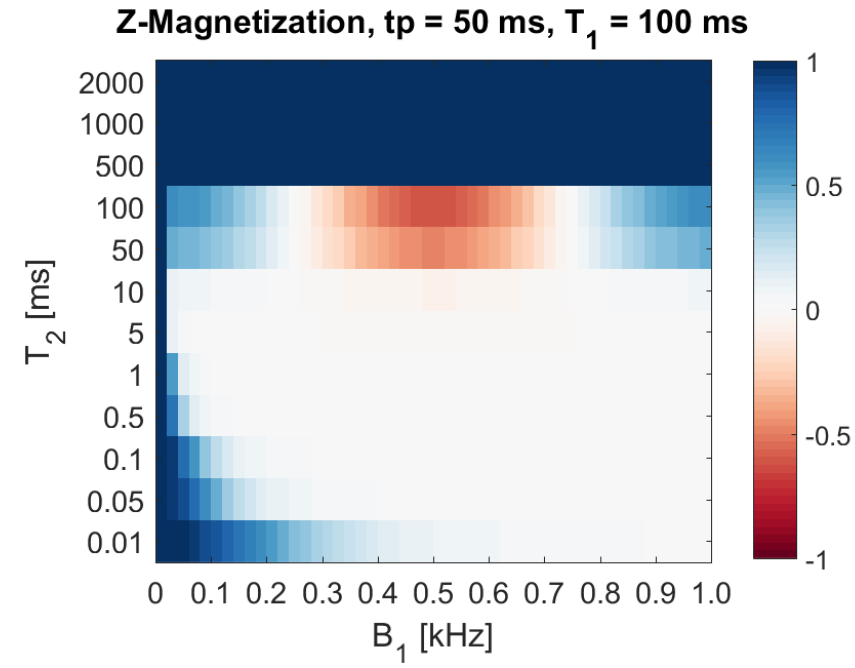
T1 = 100 ms

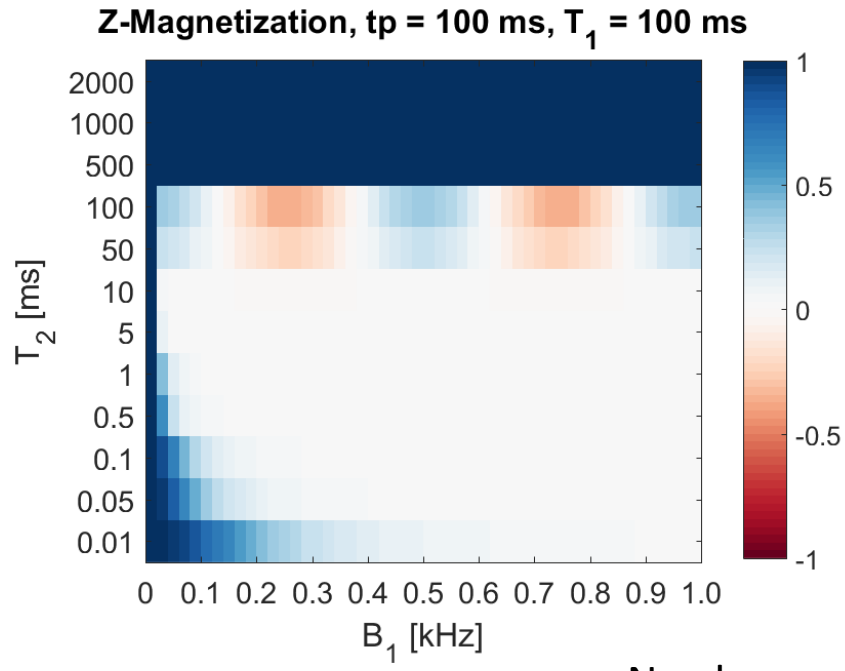
areas of the figure with T2 > T1 are blended out (blue)

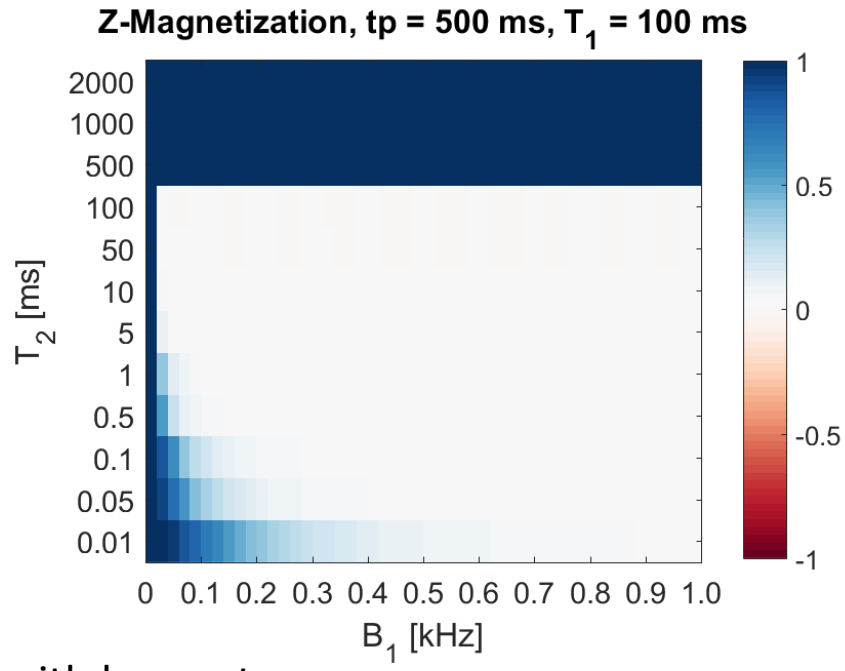










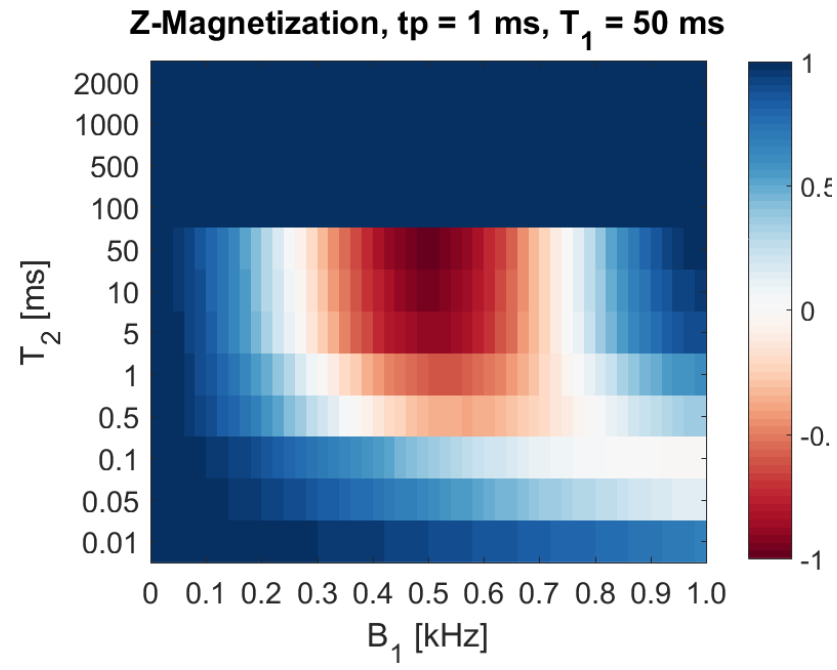


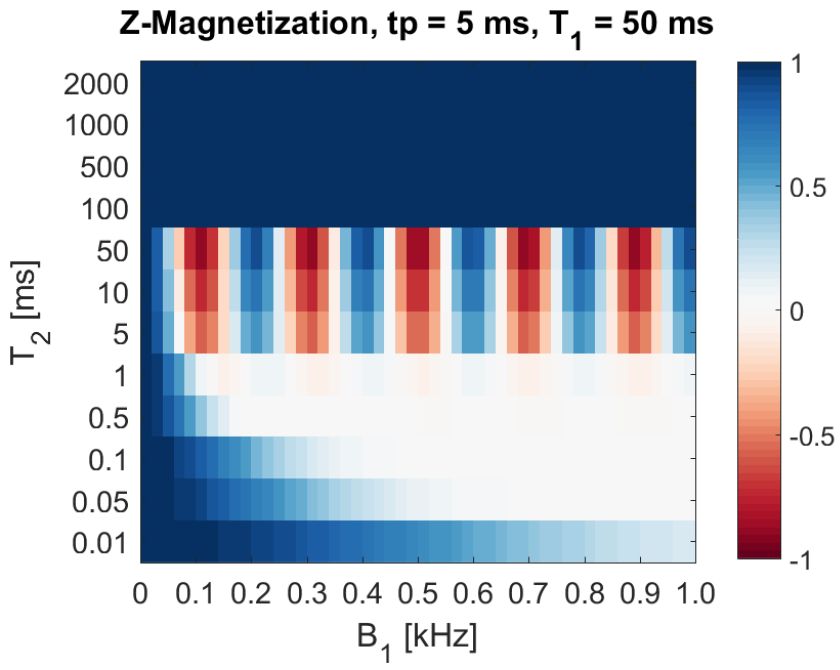
No change with longer tp

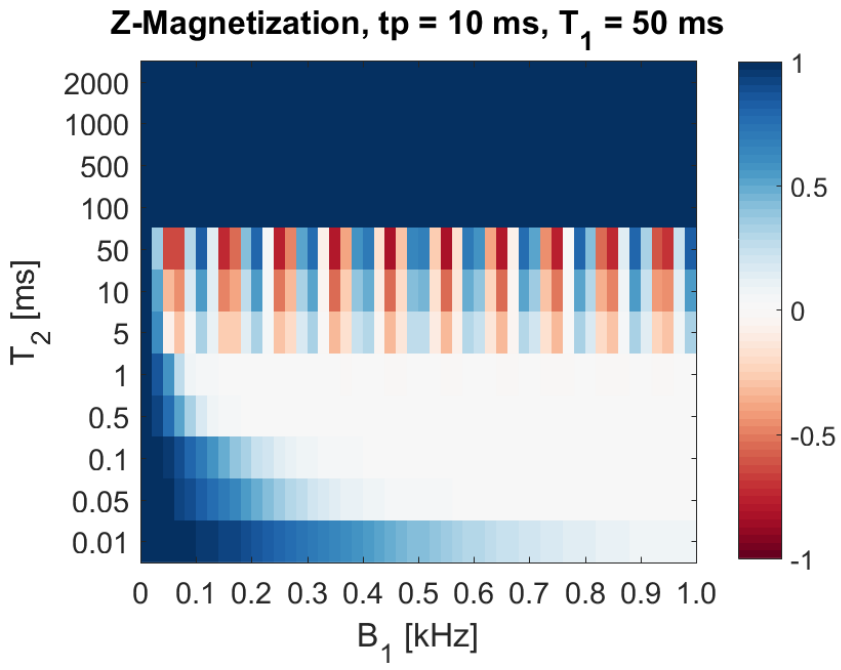
Plot of Z-Magnetization in dependence of T2 and B1

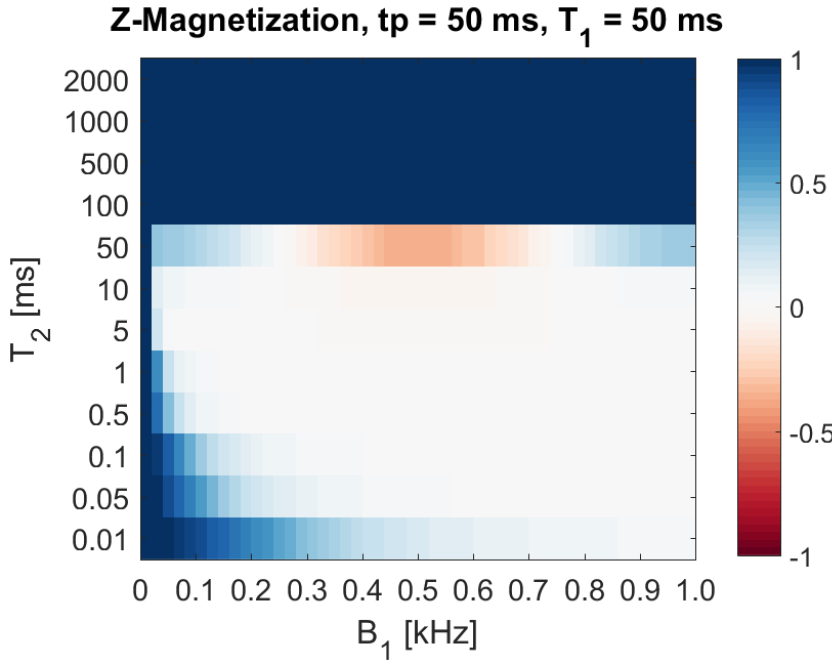
T1 = 50 ms

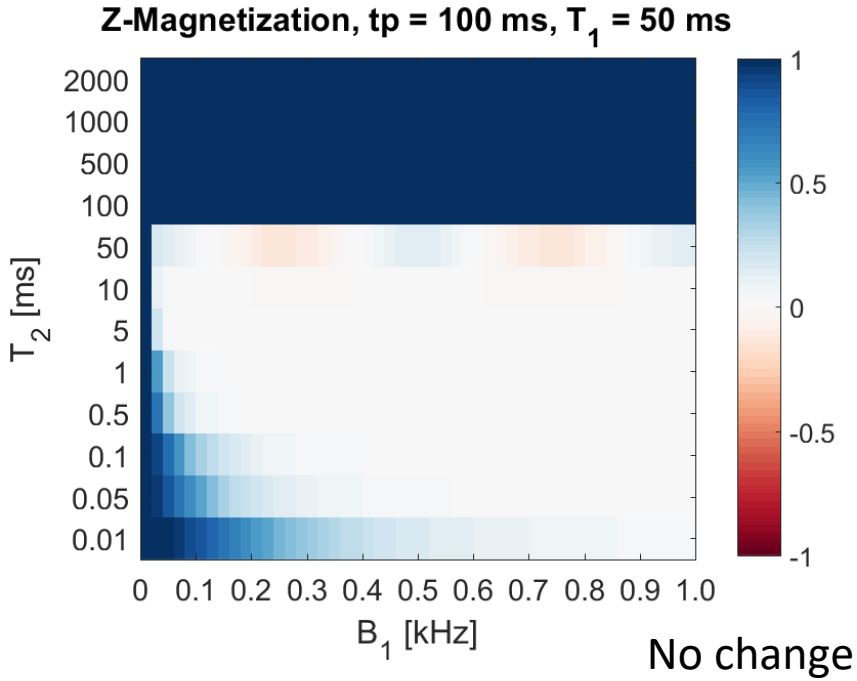
areas of the figure with T2 > T1 are blended out (blue)

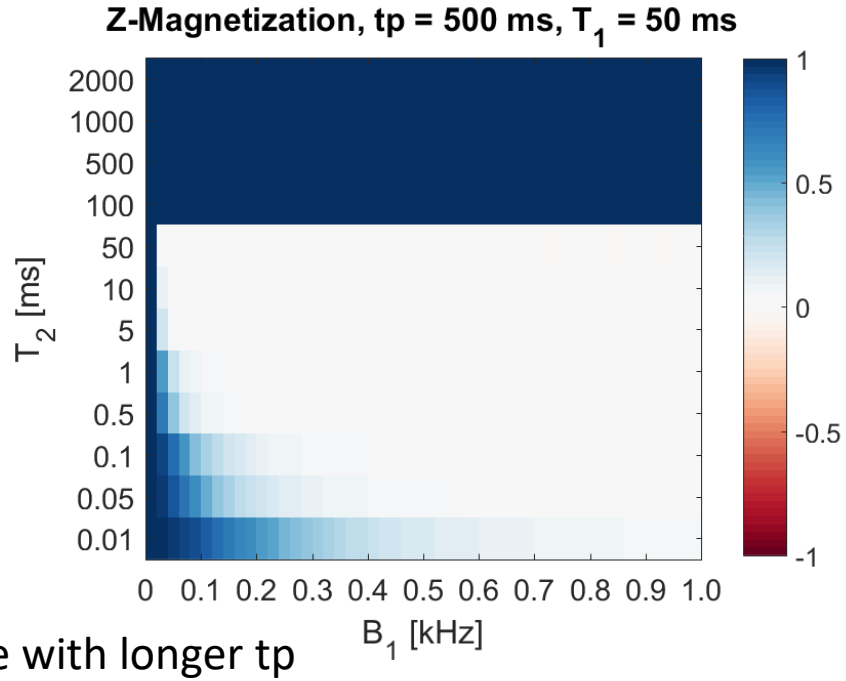










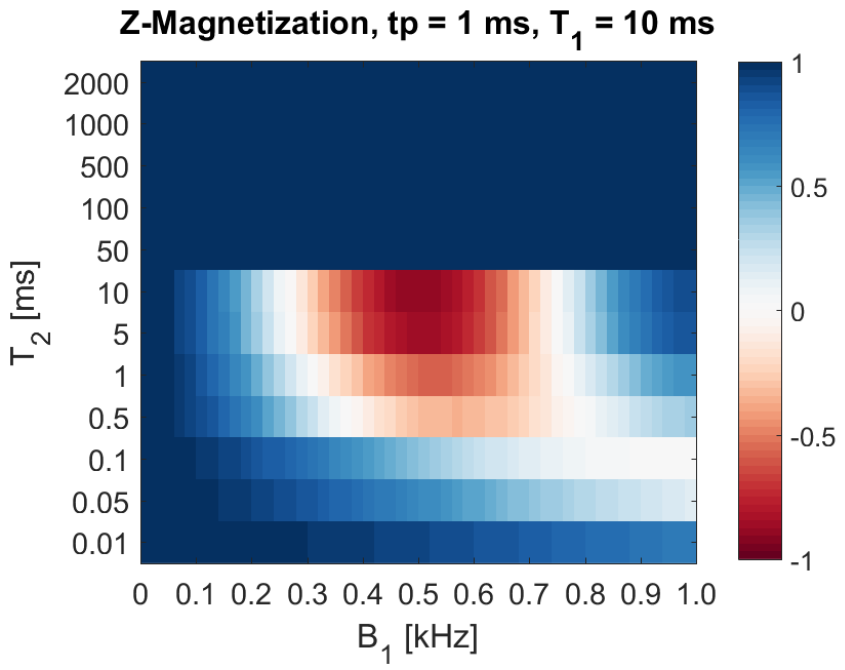


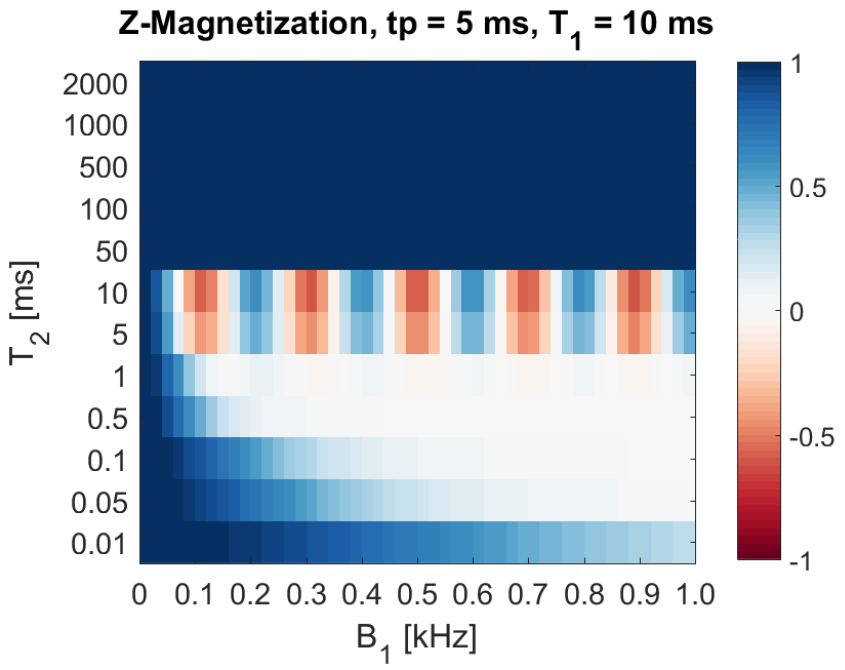
No change with longer tp

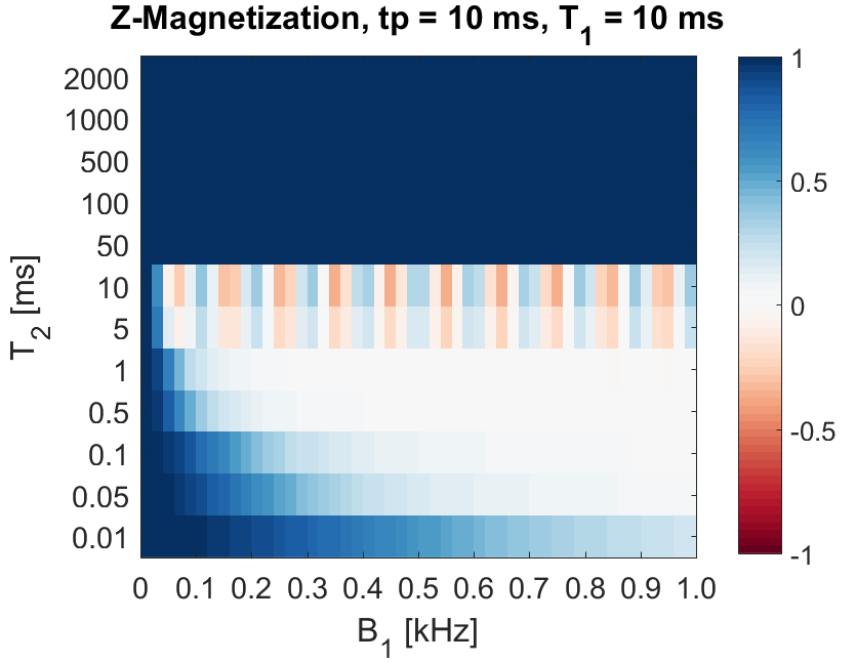
Plot of Z-Magnetization in dependence of T2 and B1

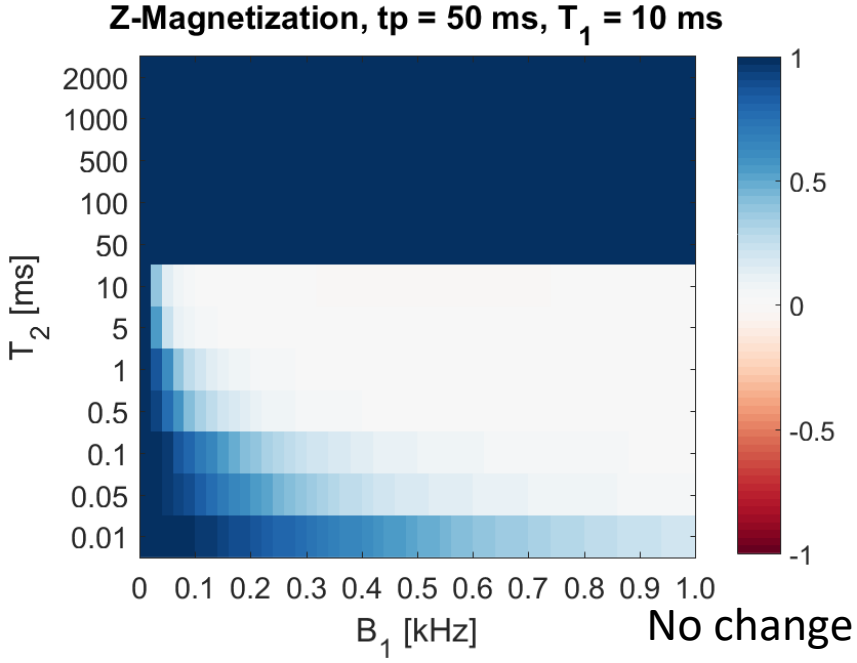
T1 = 10 ms

areas of the figure with T2 > T1 are blended out (blue)







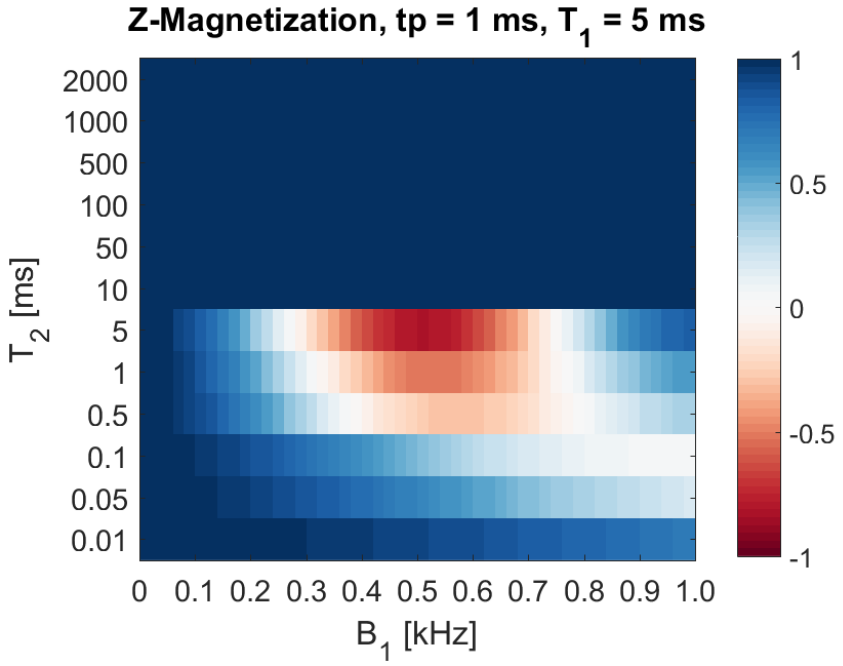


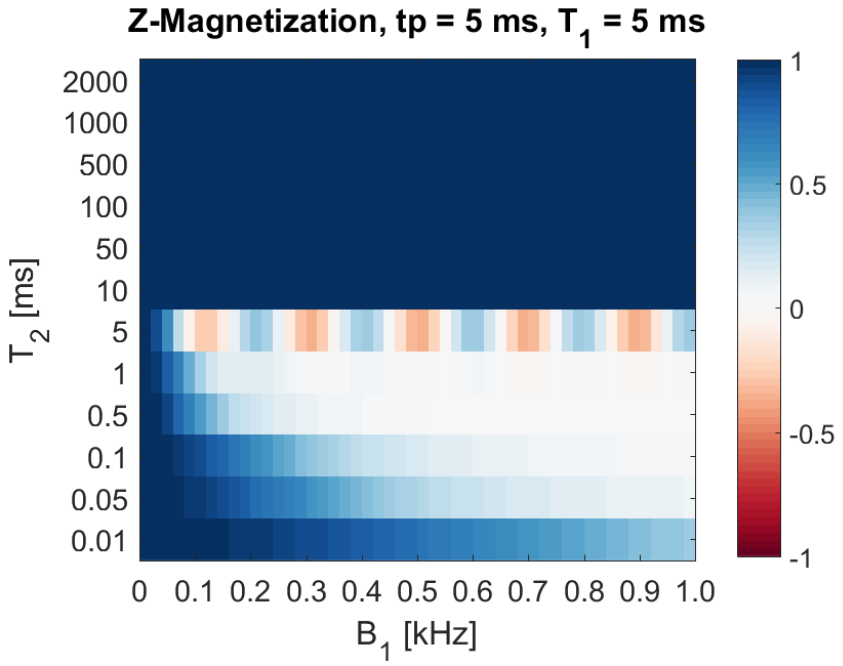
No change with longer tp

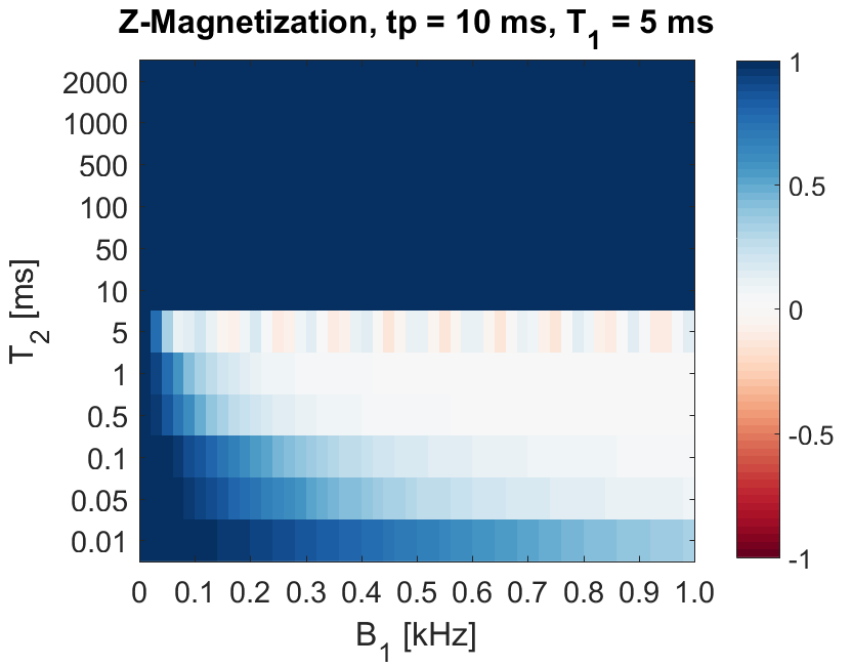
Plot of Z-Magnetization in dependence of T2 and B1

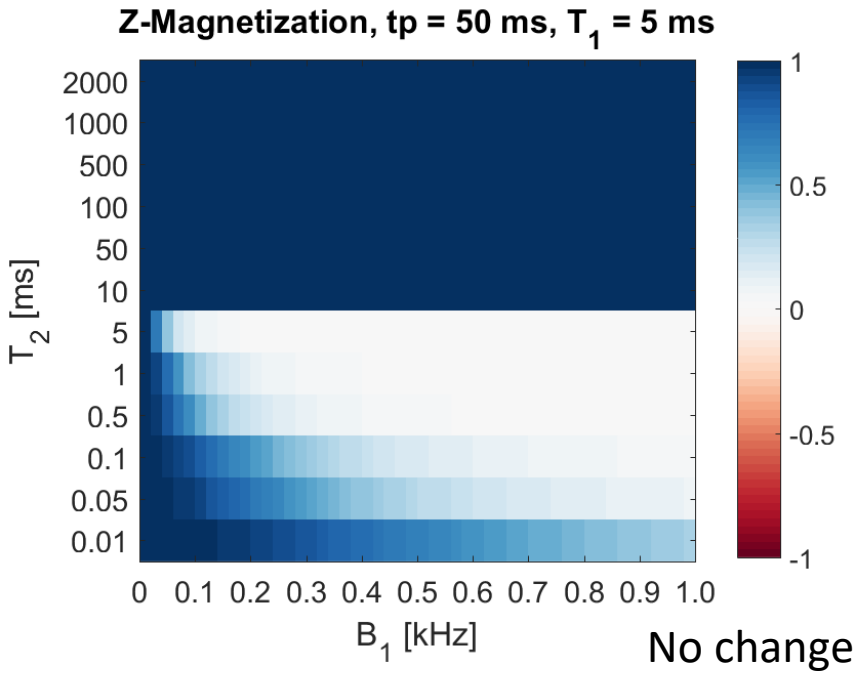
T1 = 5 ms

areas of the figure with T2 > T1 are blended out (blue)









No change with longer tp