

A

B

C

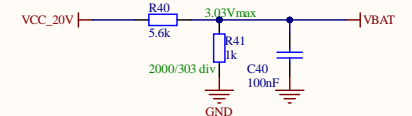
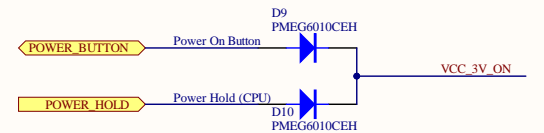
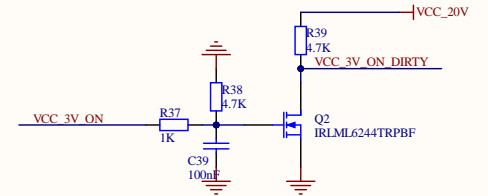
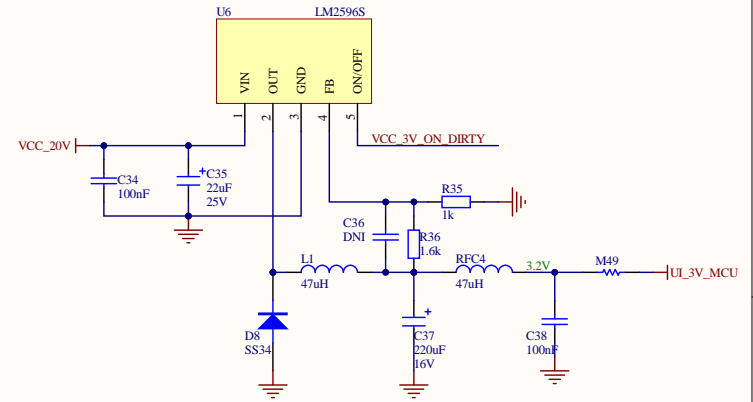
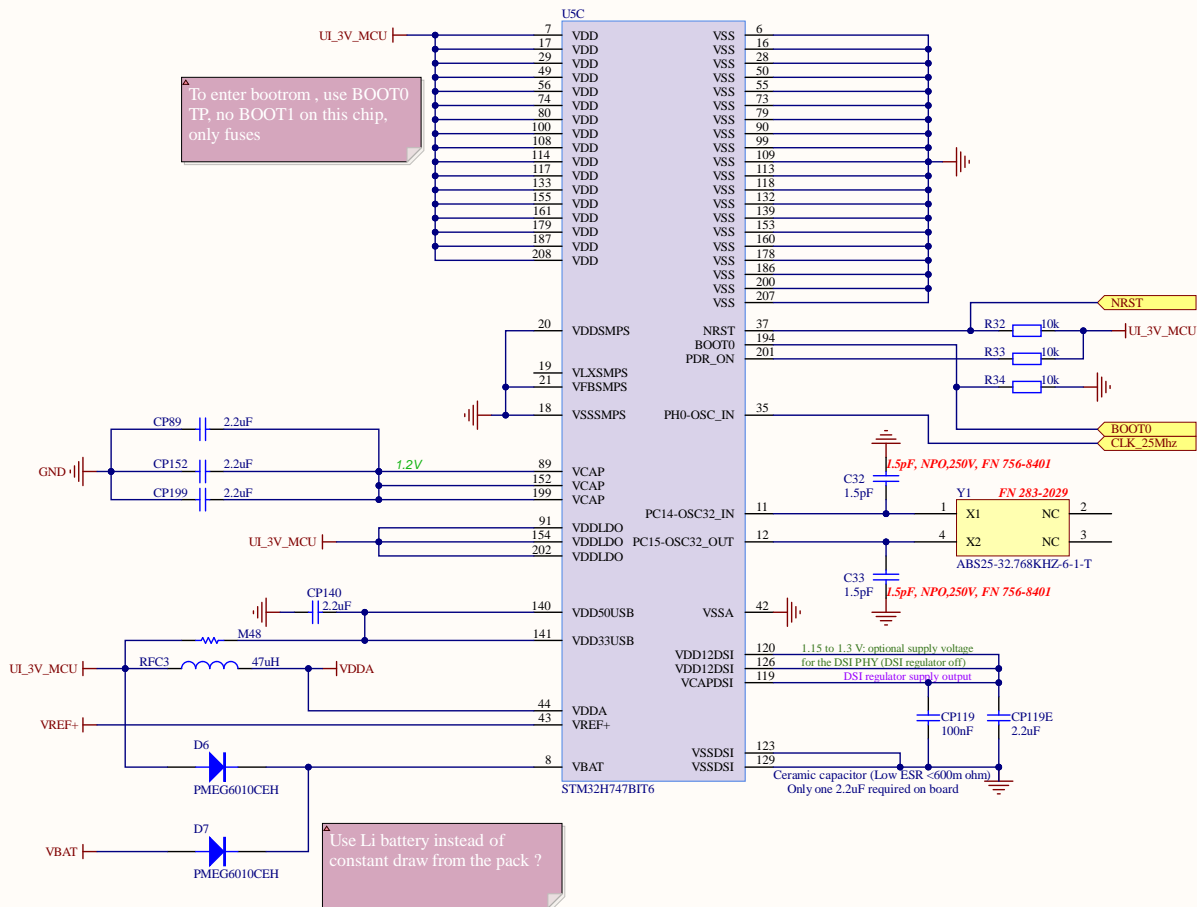
D

A

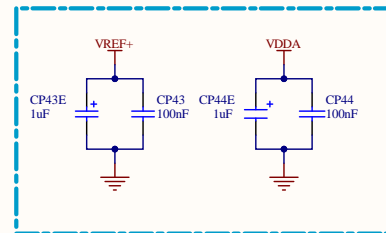
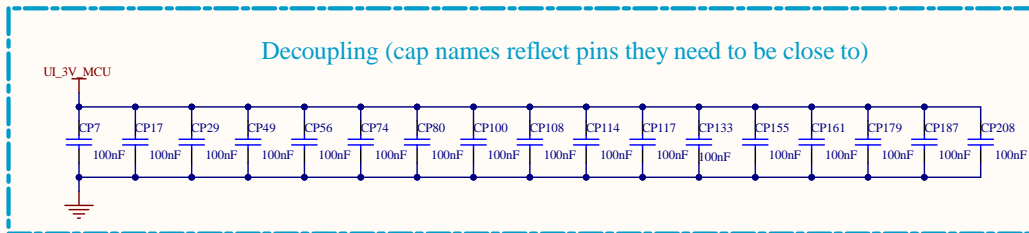
B

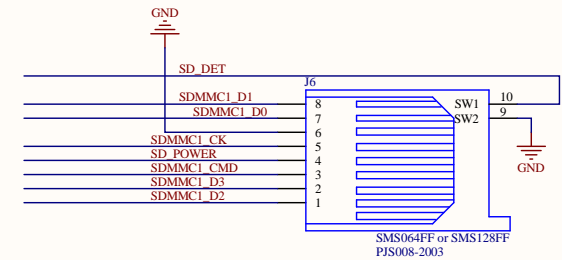
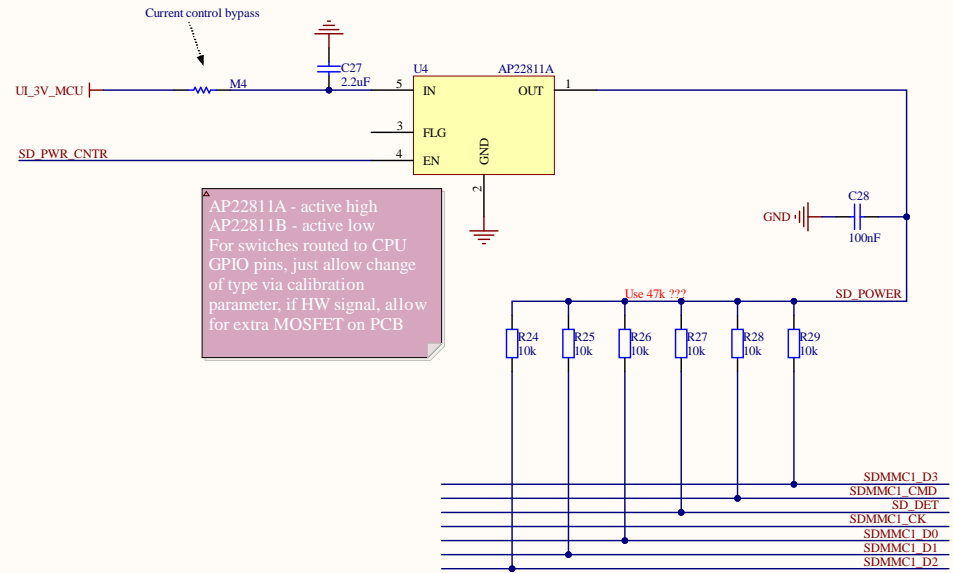
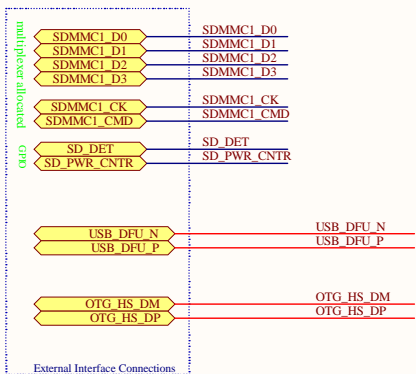
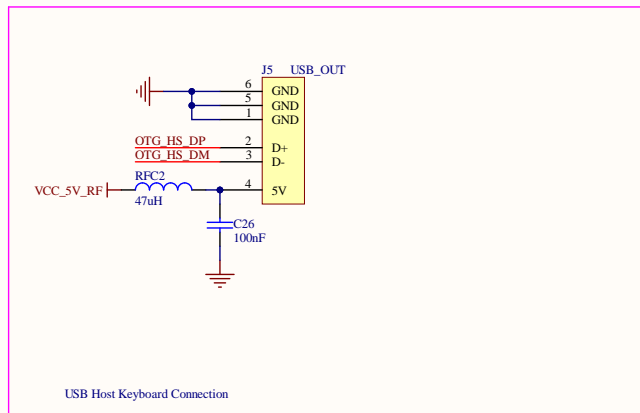
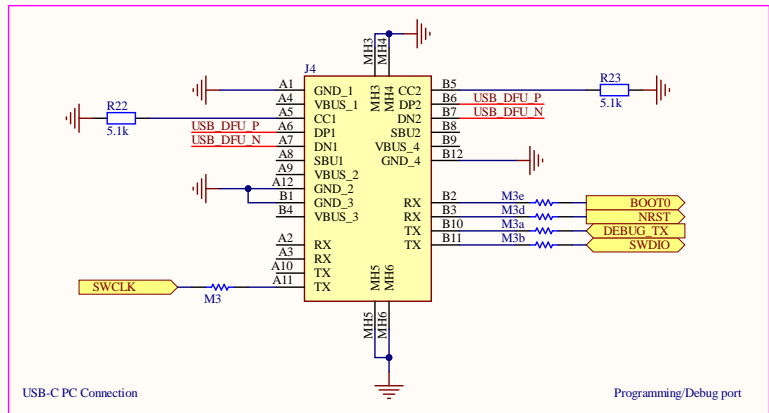
C

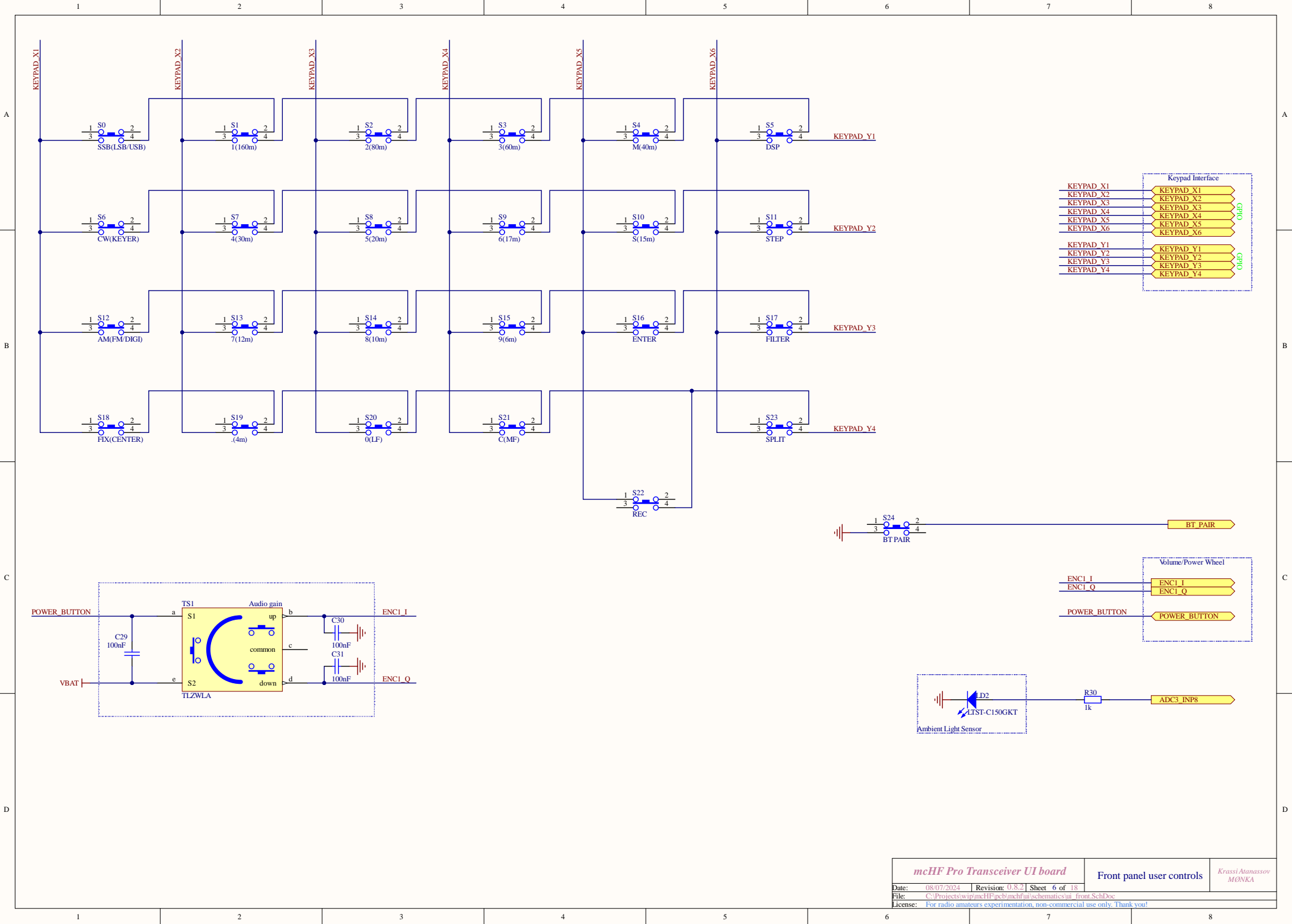
D



ToDo: Use bigger ratio to reduce current draw









A

B

C

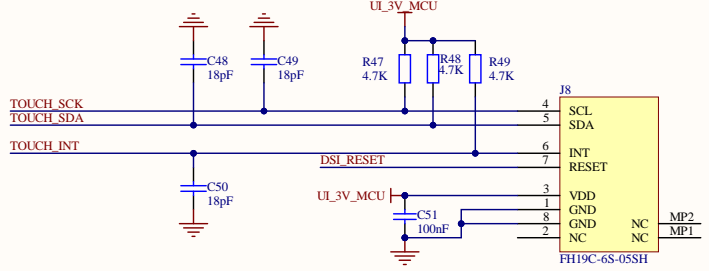
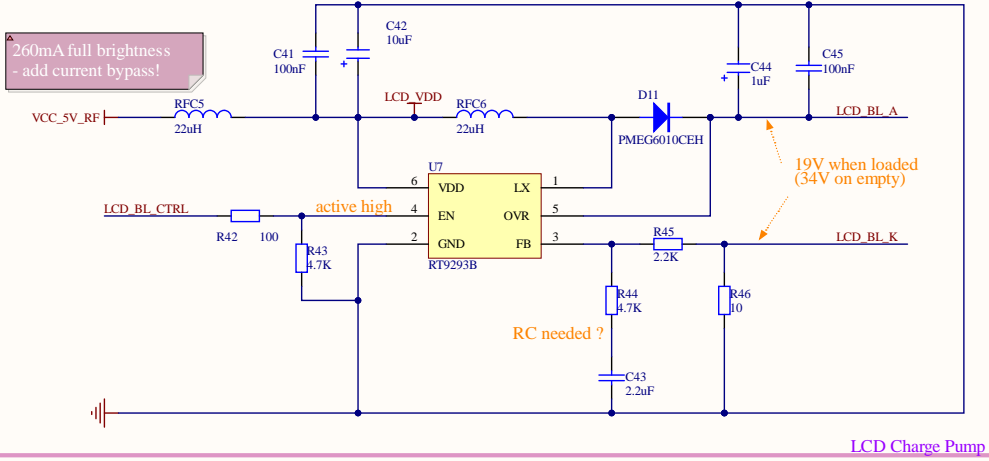
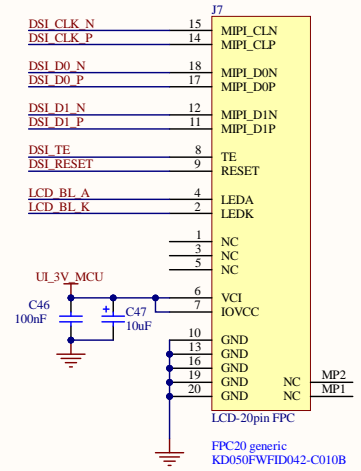
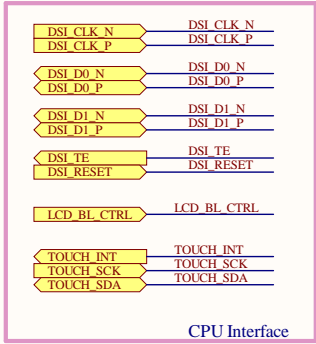
D

A

B

C

D



A

B

C

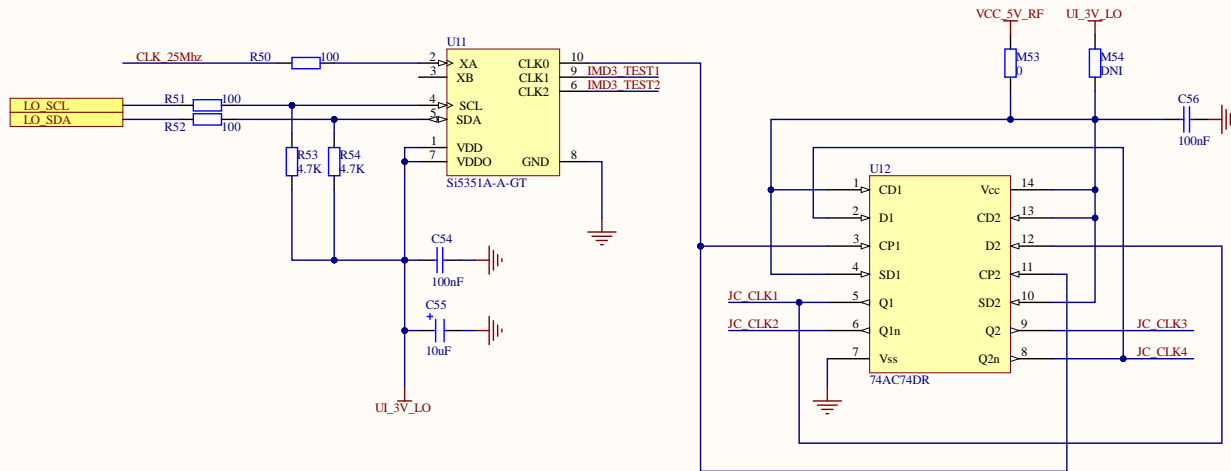
D

A

B

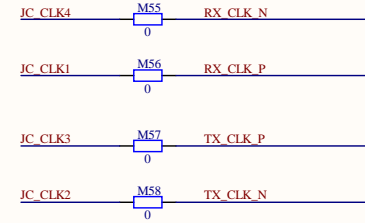
C

D



Q1	Q1N	Q2	Q2N
1	0	0	1
1	0	1	0
0	1	1	0
0	1	0	1

Johnson counter states

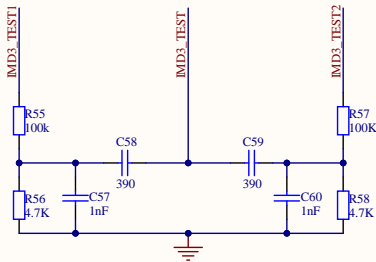


S1	S0
1	1
0	0
1	0
0	1
0	0
0	1

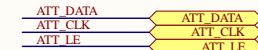
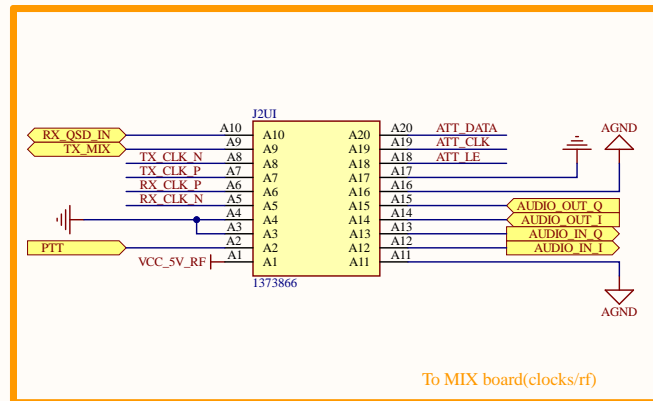
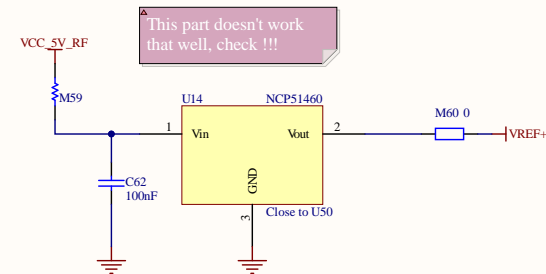
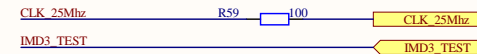
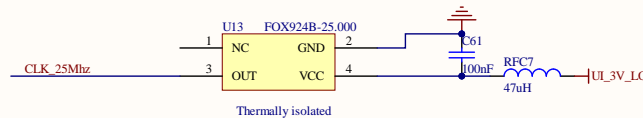
RX clock

S1	S0
1	1
0	0
0	1
1	1
1	0
1	0

TX clock



1. Do we need proper balanced mixer ?
2. Calculate ratios and caps!



ToDo: Connect to CPU!

A

B

C

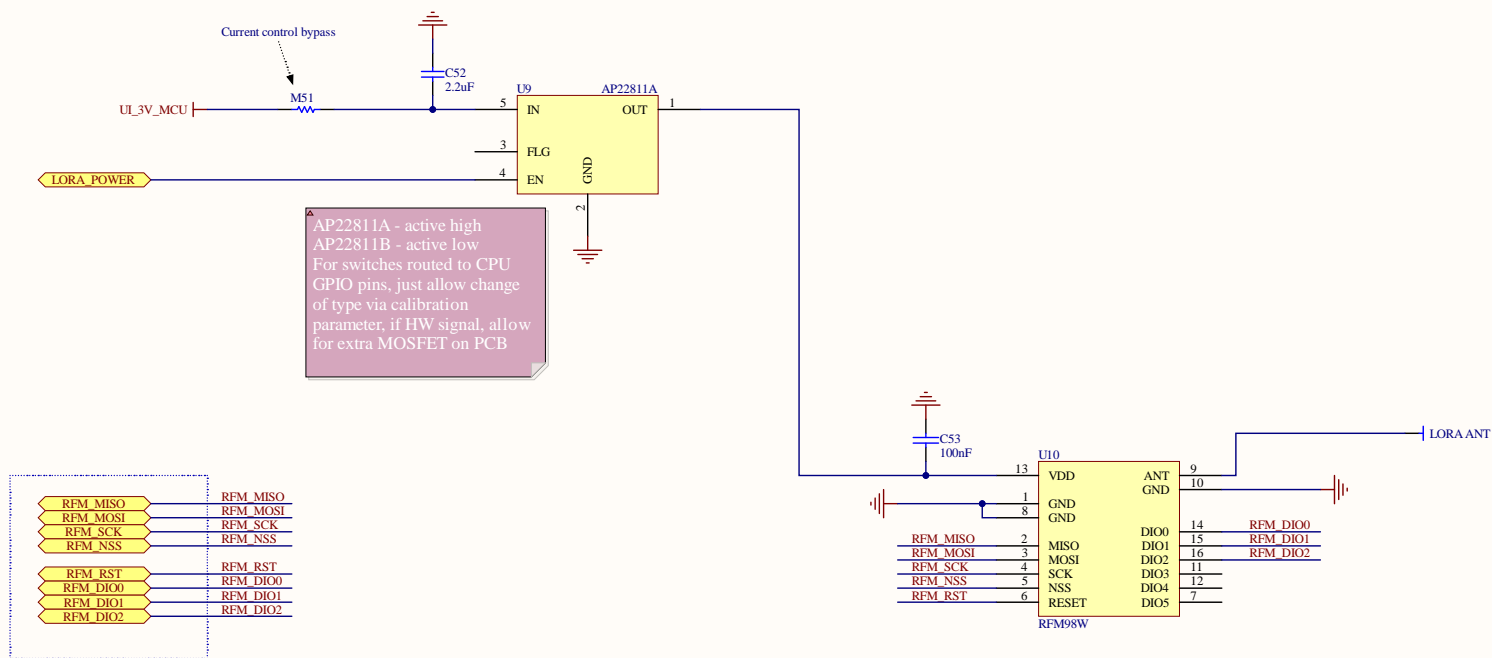
D

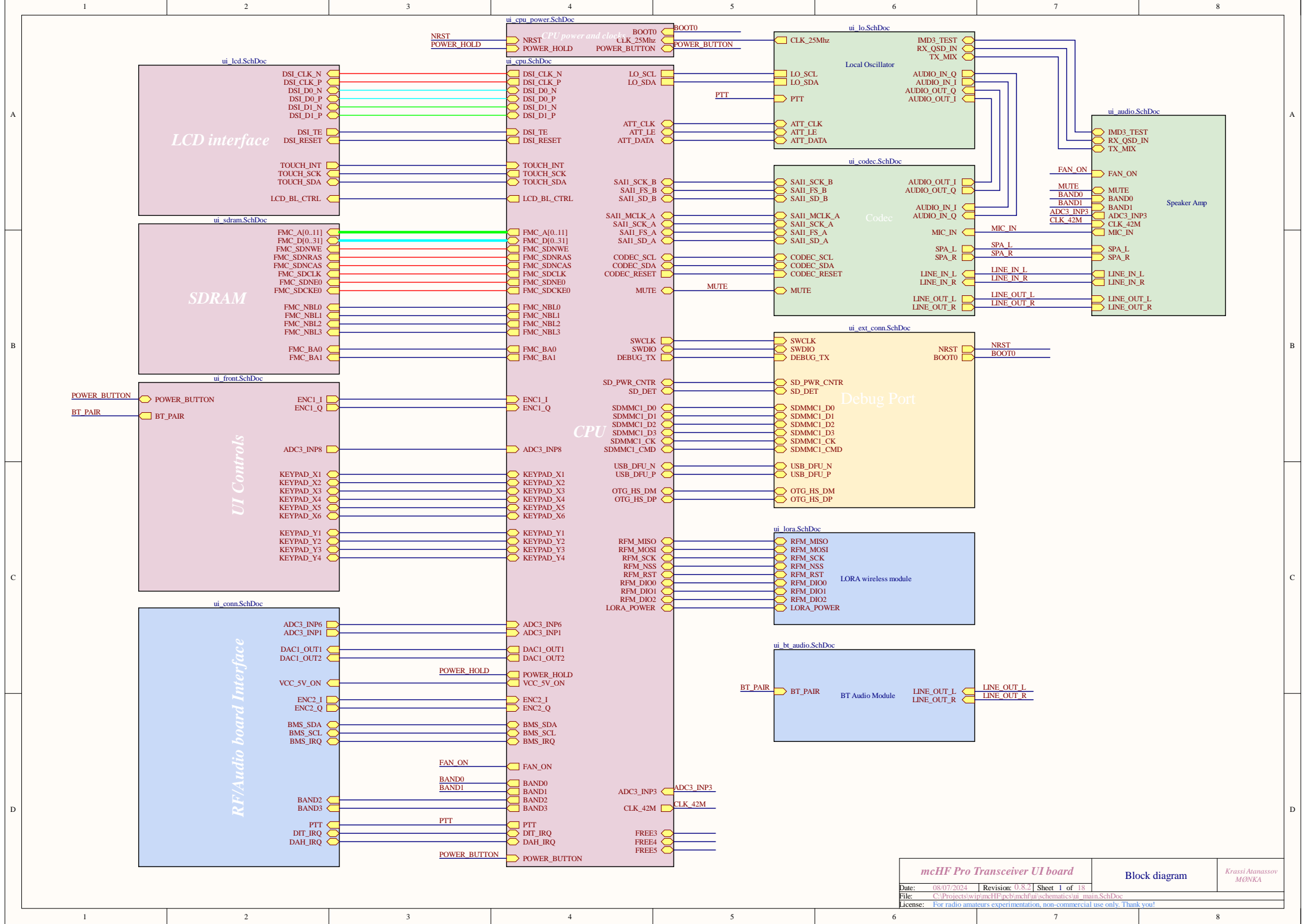
A

B

C

D





Note: SDRAM runs on 100Mhz max clock, limited by FMC controller

