

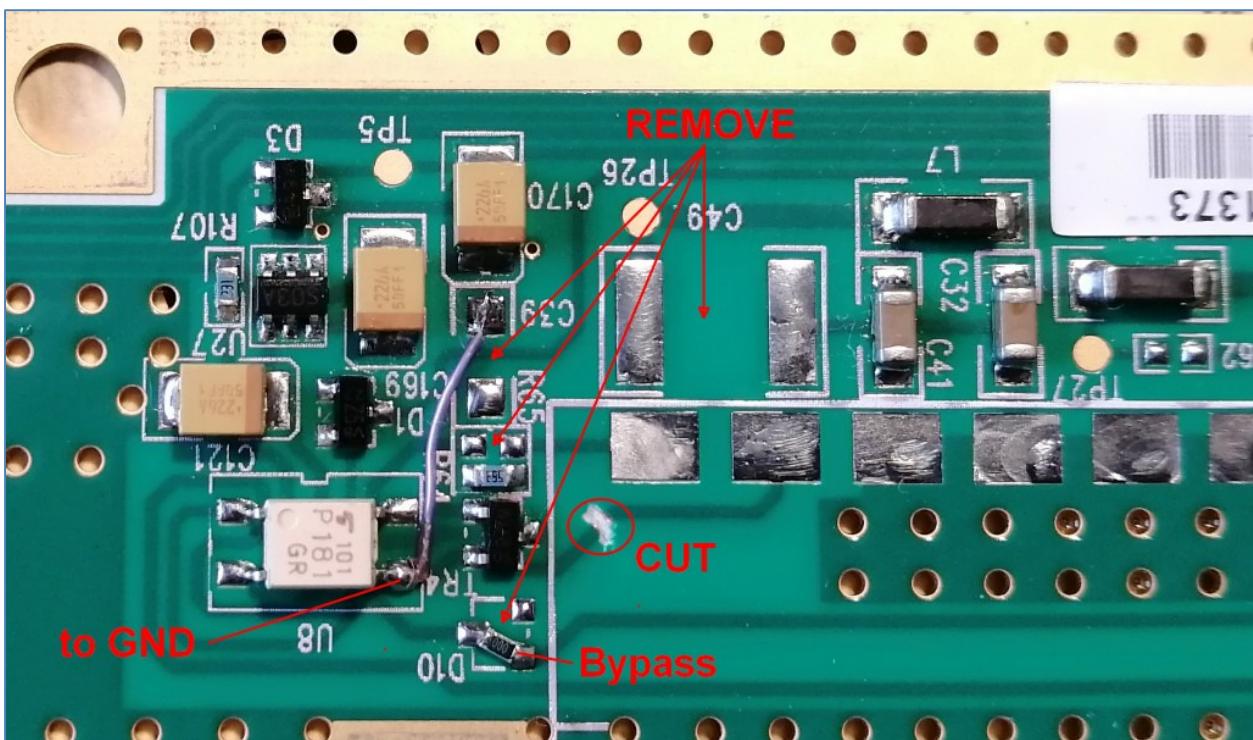
10GHz CBNL VS2 TRX BOARD MODIFICATION

YO4HFU - 01.04.2023, rev.1

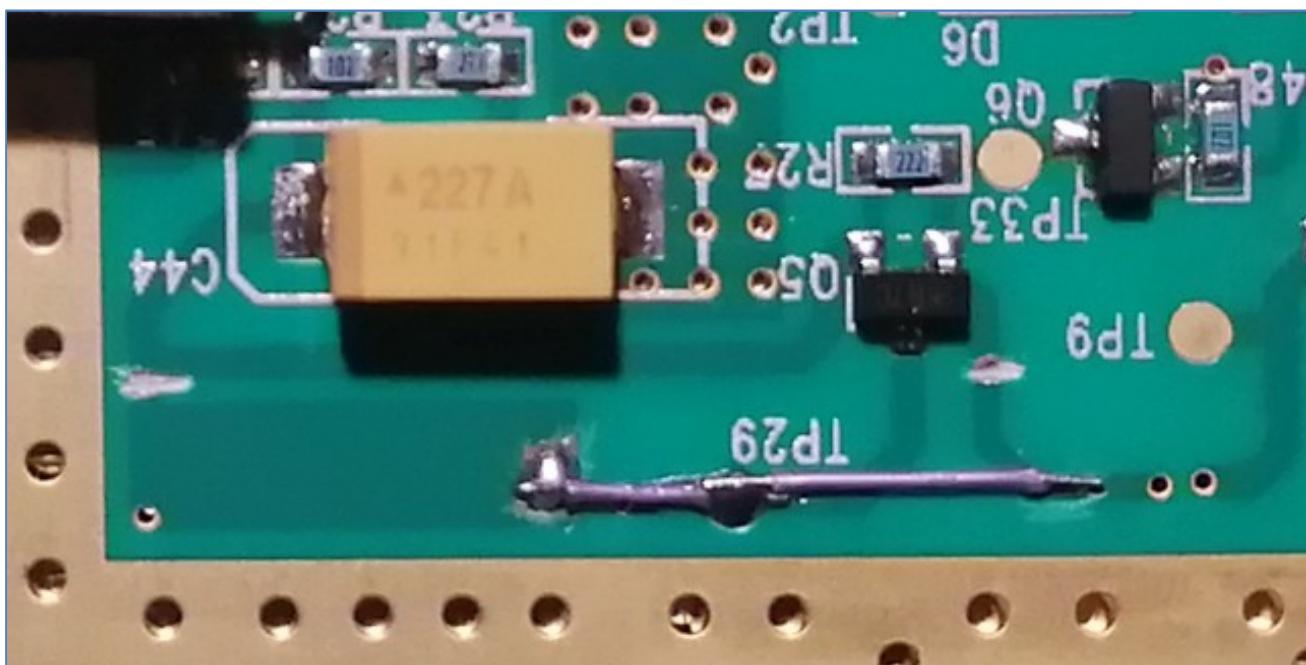
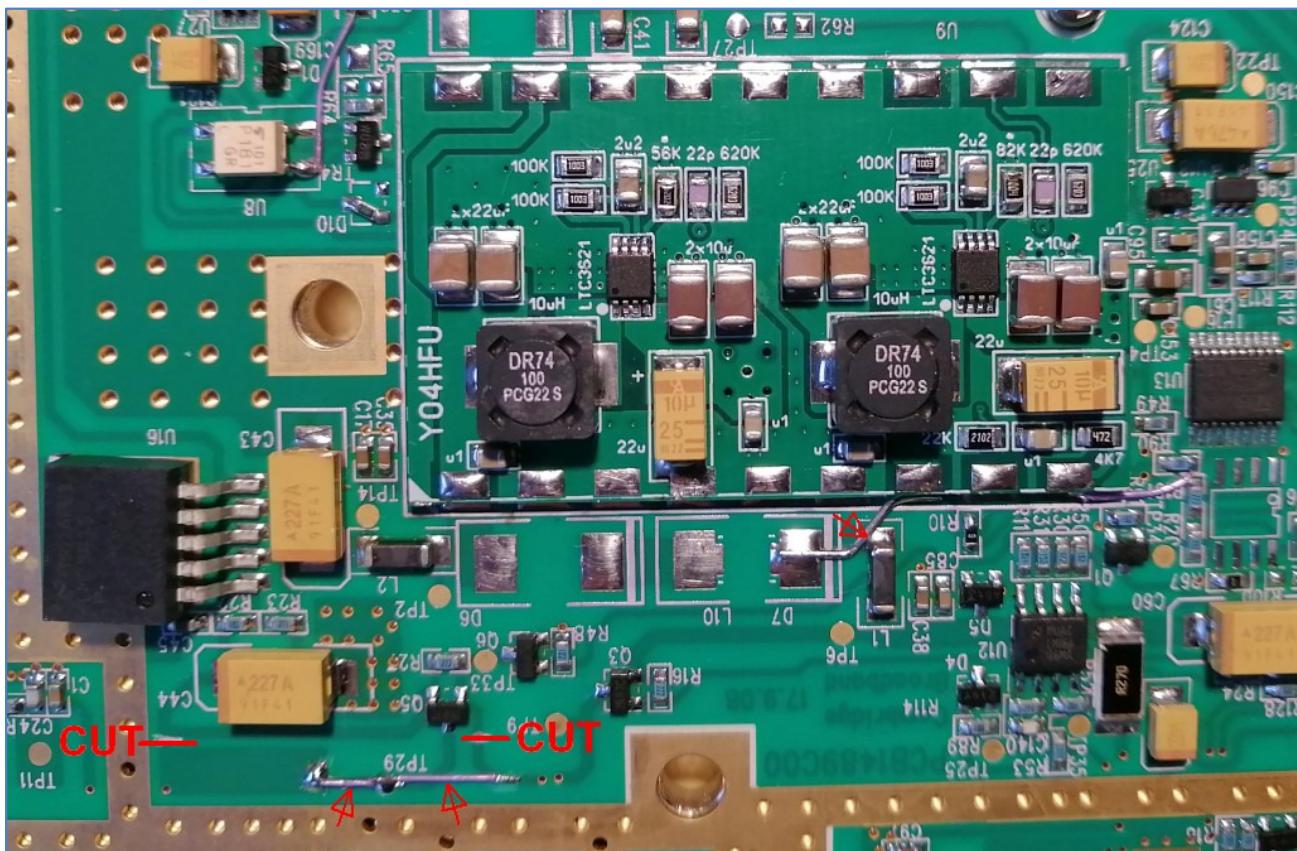
Carefully remove TRX PCB. Use a hotplate on bottom side and hot air gun to remove U9 Ericsson PSU. Do not damage PCB pads.

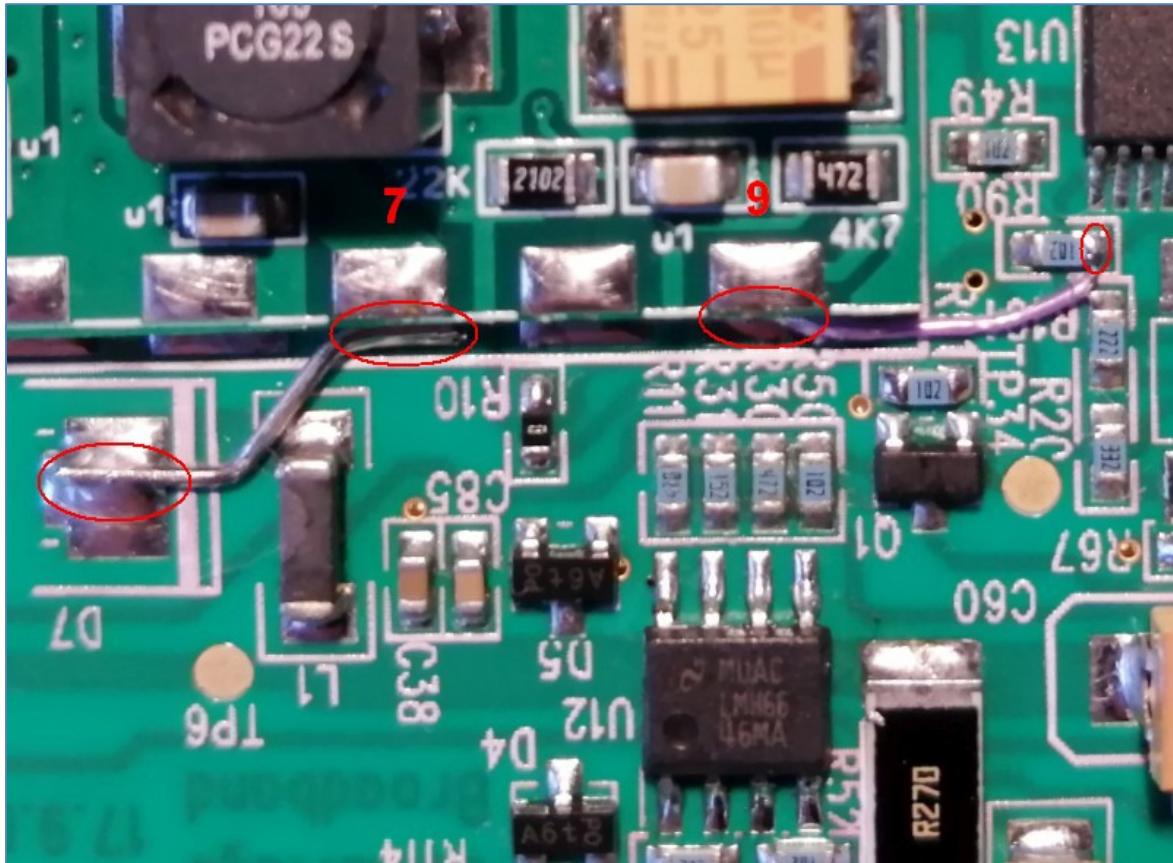
- Remove C39, C49, D10, R65
- Bypass D10, connect U8 pin 3 (emitter) to GND.
- Cut the trace between TR4 emitter and pin 17 U9 PSU.

D1, U8 and TR4 are used as -5V interlock. TX PSU will be inhibited in case of -5V malfunction.

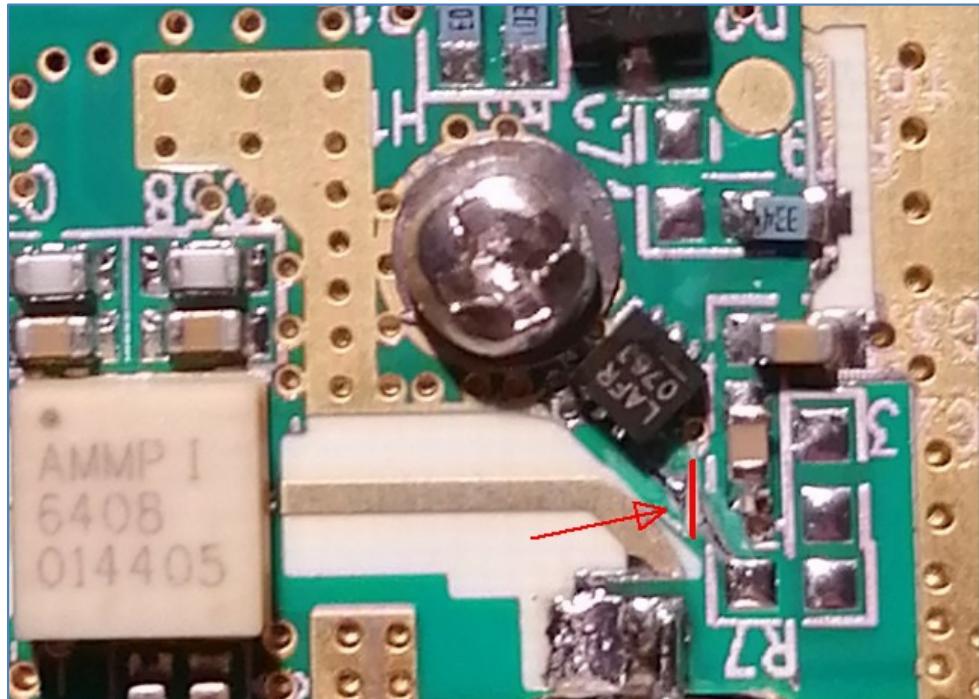


- Install new PSU PCB
- Remove D7 and D9. To reduce voltage drop/dissipation, PA stage will be supplied directly by stable +5V TX.
- Cut next traces according bellow image. Solder jumpers between TP29 and already cut traces. Modification is required to supply U7 & U21 MMIC only during TX.
- Solder jumper between PSU pin 7 (TX +5Vout) and D7 or L1.
- Solder jumper between R90 (1K) terminal and PSU pin 9. Signal used as TX control of PSU.





- Half cut of RF pickup line, pin 6 LTC5532. Modification required to avoiding RF detector saturation (max. 4.4V out)



Before and after CBNL TRX modification:

