

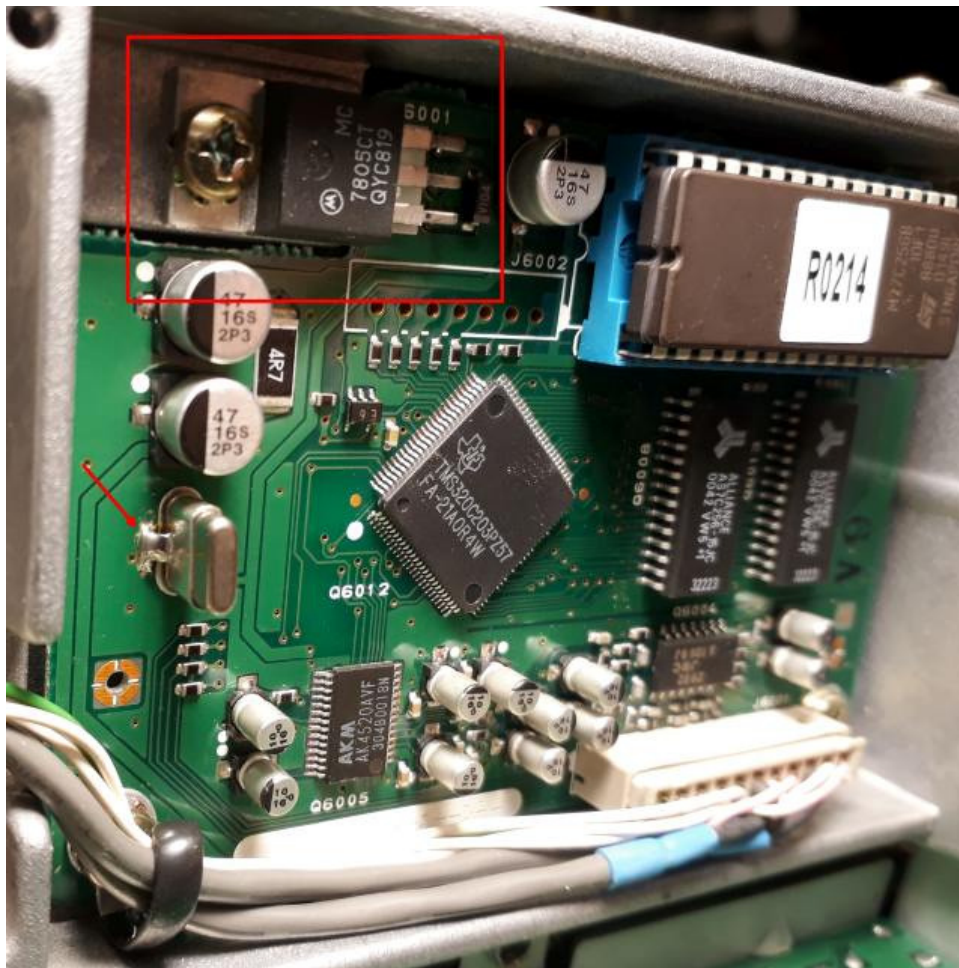
## FT847 IMPROVEMENT OF DSP SPURIOUS EMISSION

yo4hfu – 2018

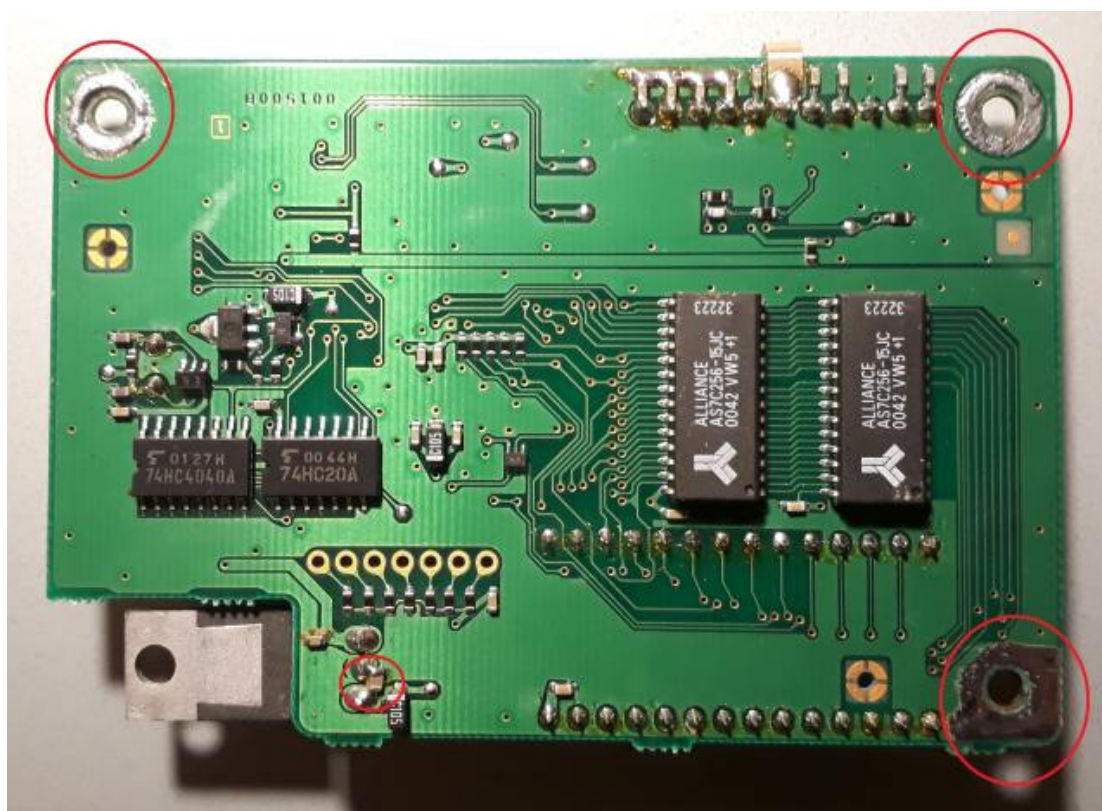
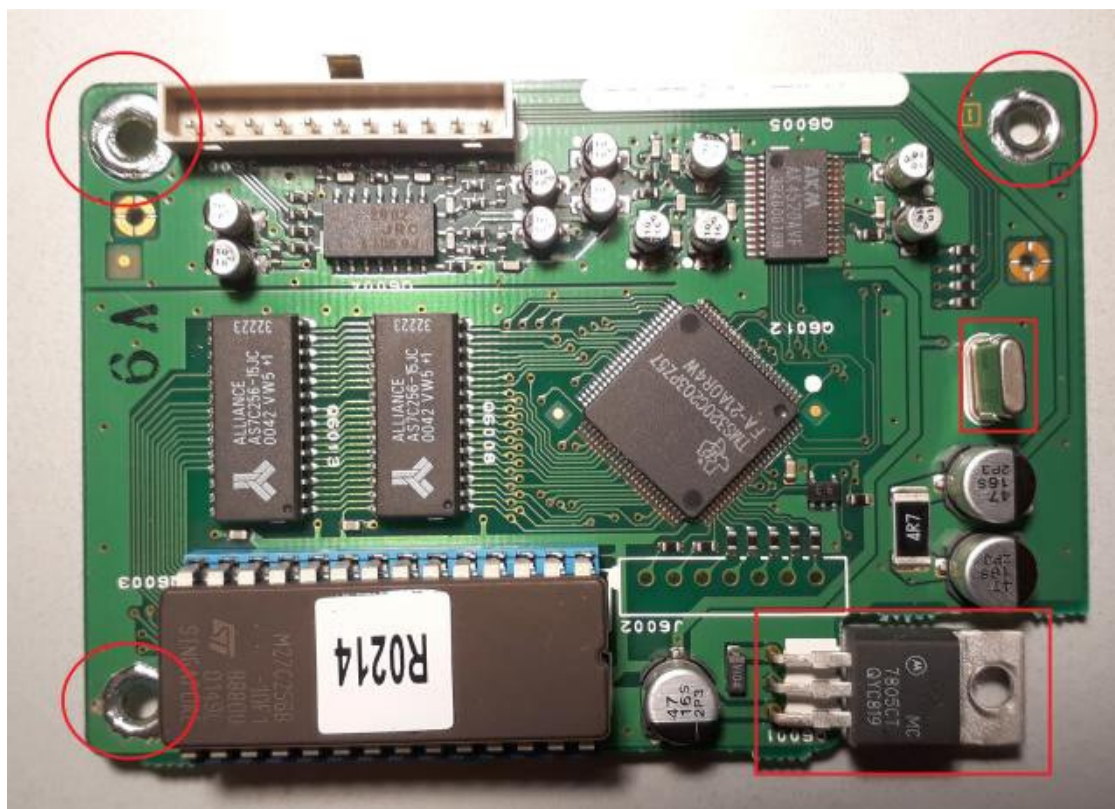
DSP 7805 voltage regulator replaced with metal tab TO-220 package for better GND connection



DSP Quartz body connected to GND by special clamp

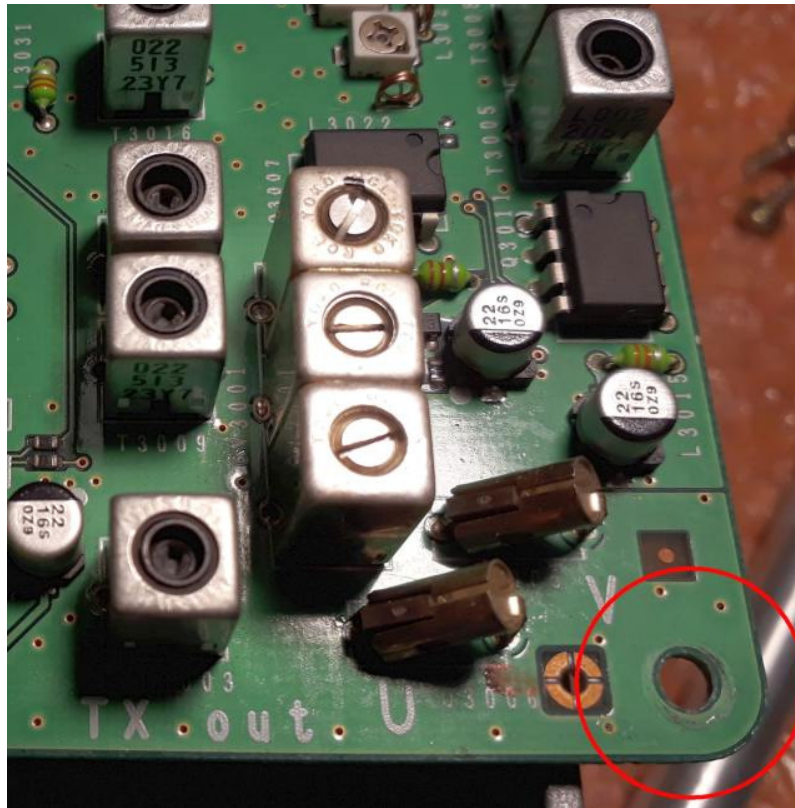


DSP ground plane of holes was tinned  
7805 bypass 100nF capacitor added

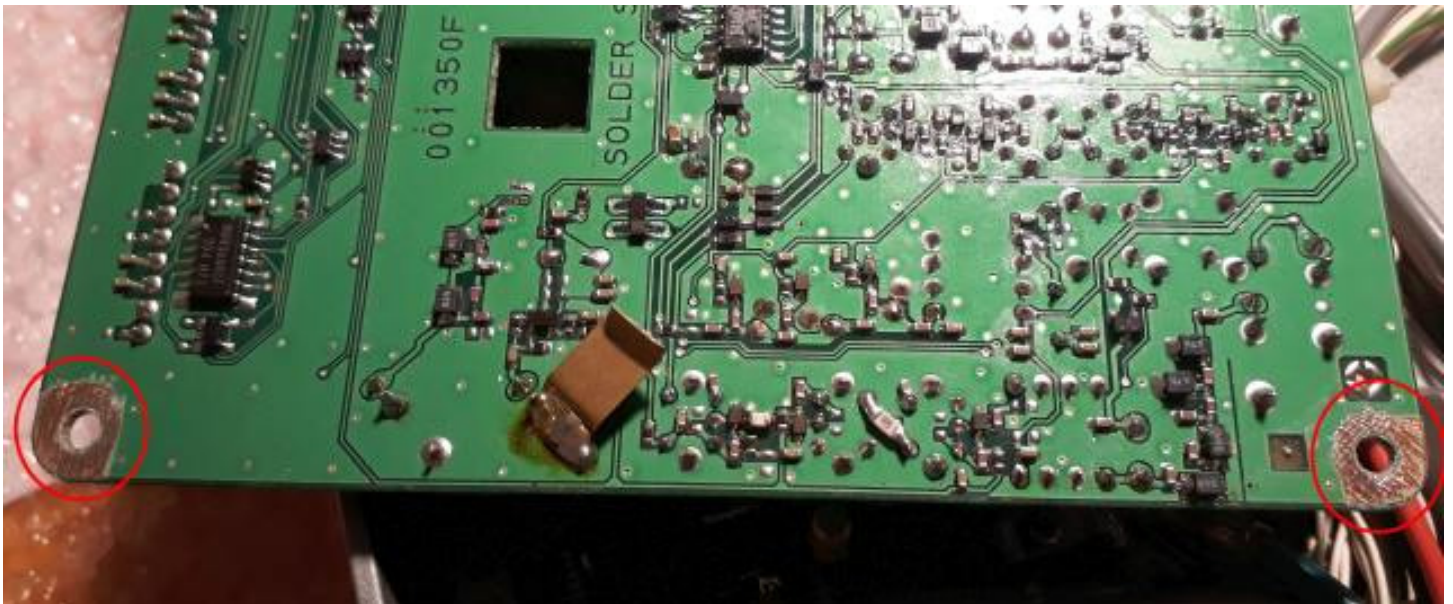




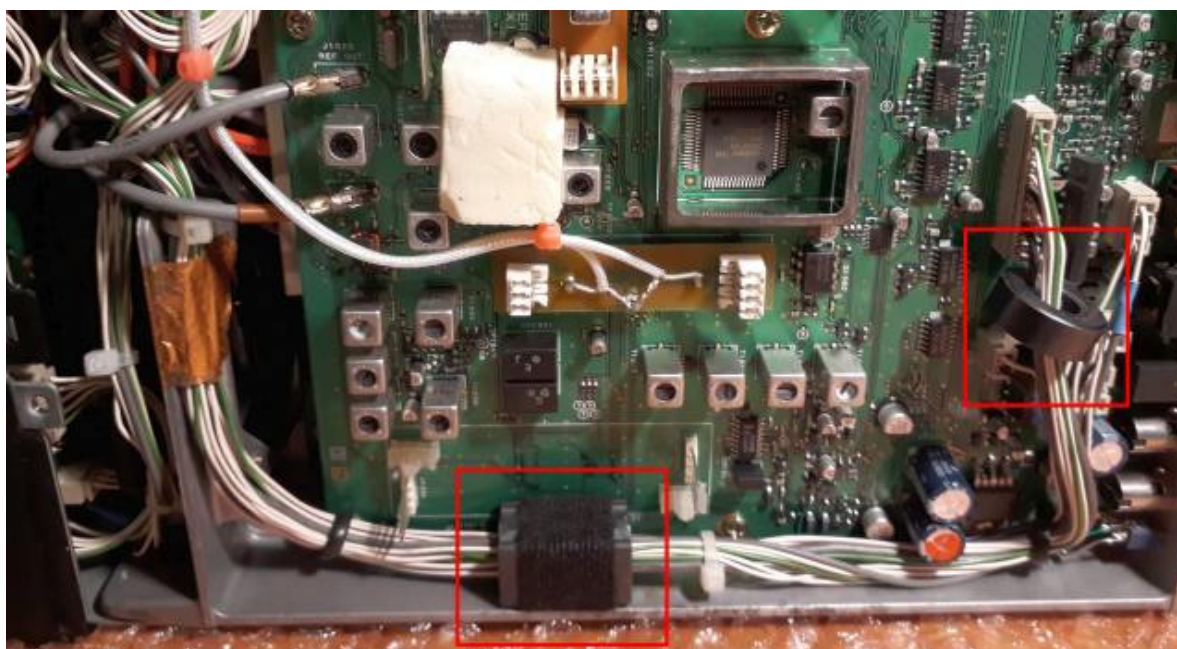
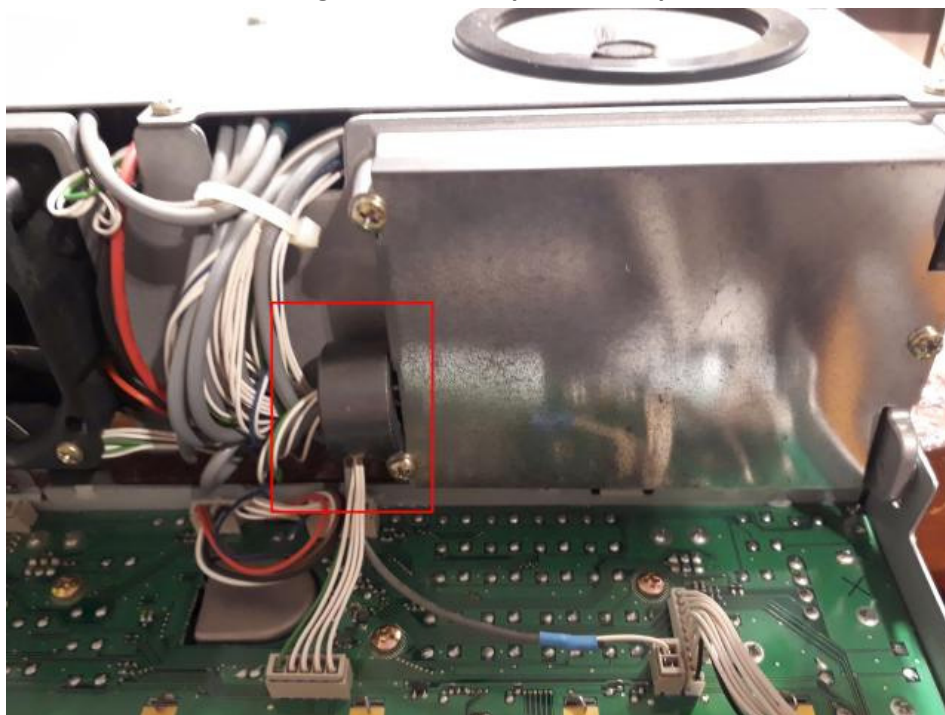
Same GND improvements for RF board, all holes are necessary to be tinned on both sides



RF board bottom layer view



Common mode chokes added on DSP in/out wires  
Ferrite ring or ferrite clamp for EMI suppression



No more 144MHz RX noise due to DSP board.

Best regards, Robert

73!