432MHz driver P.A.

Hereby the description from my new driving P.A. which is responsible to increase the transmitting signal from the transverter to the right level for driving the final amplifier to get the maximum power output.

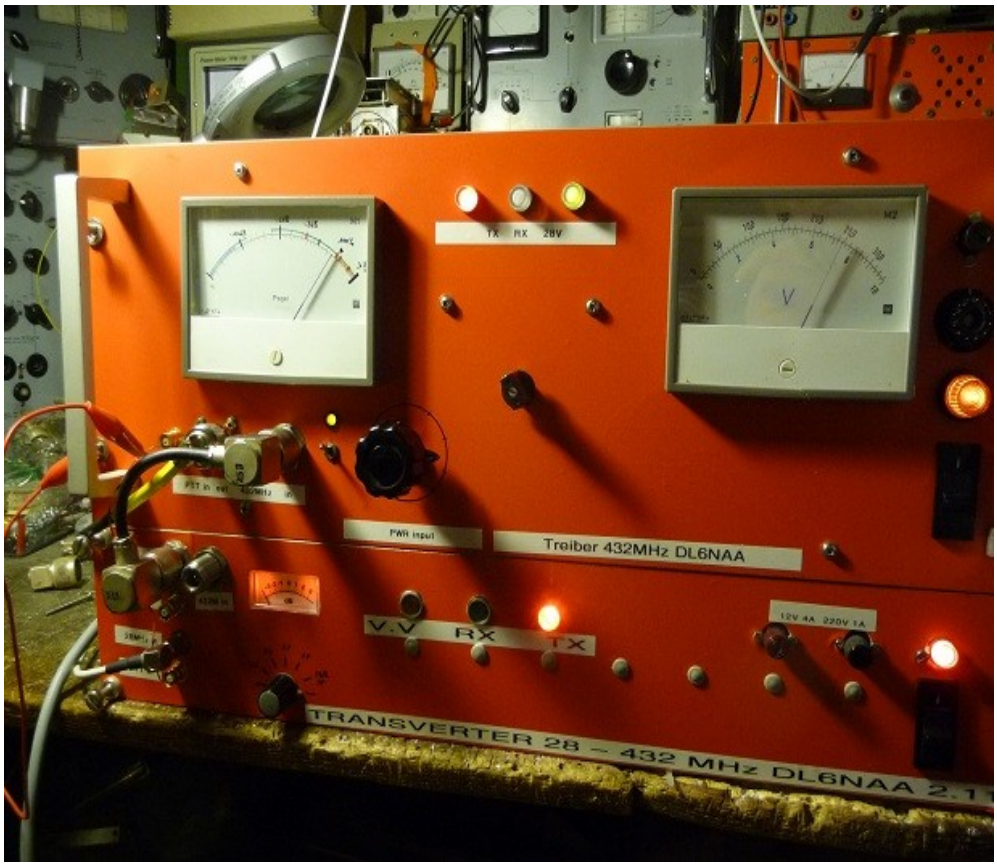
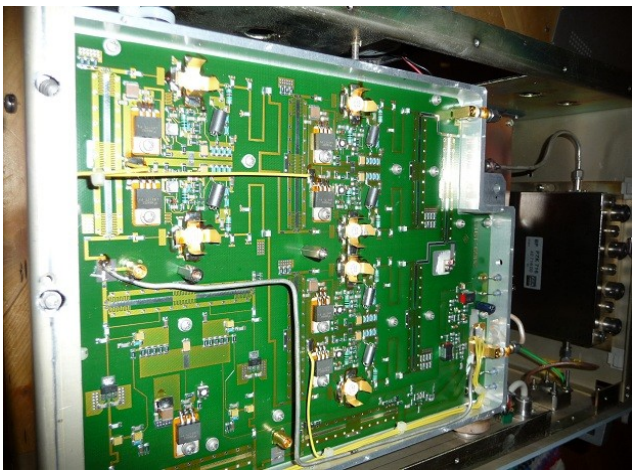
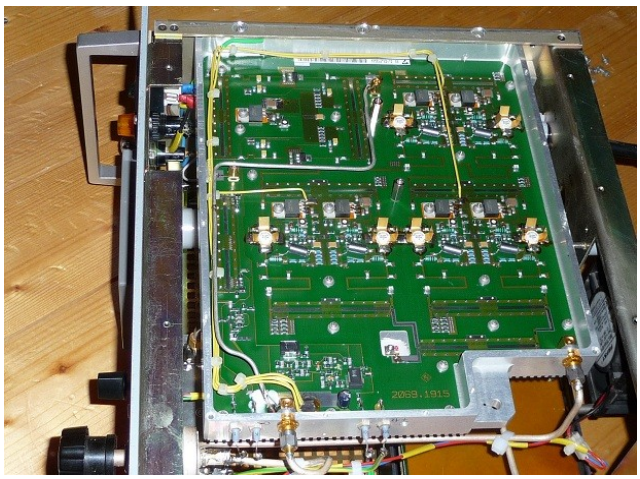


Abbildung 1: transverter and driving P.A. during test 2hours maximum power output

The complete unit consists of a power supply and a surplus amplifier from Rhode und Schwartz which I could dismantle from an old TV- transmitter. After some modifications this amplifier is able to deliver more than 30W output. Only 4 to 5 watts are required to drive my high power SSPA . All stages running class A.





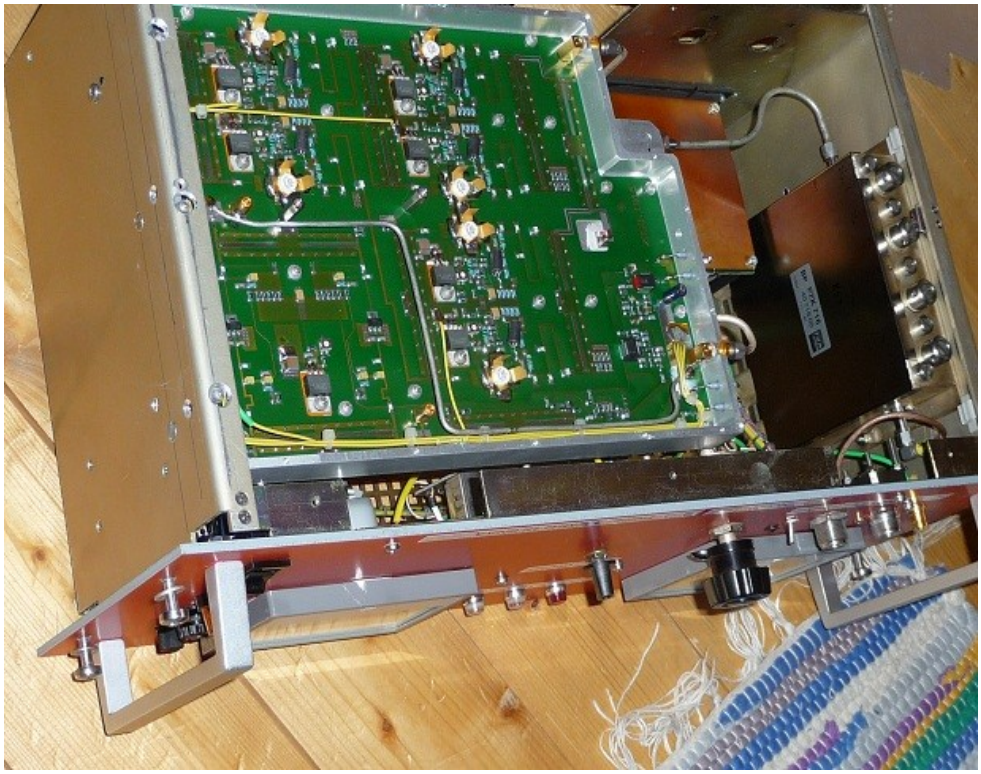
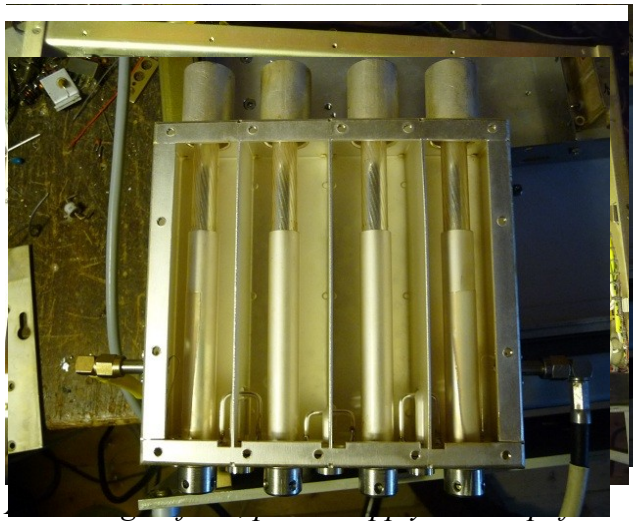
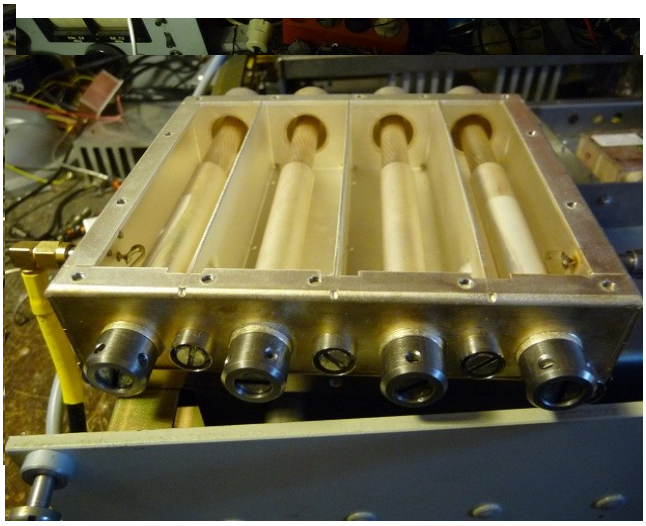


Abbildung 2: amplifier and filter





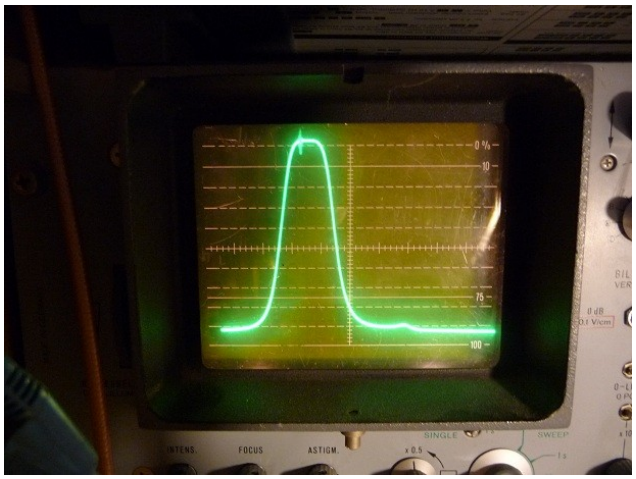


Abbildung 6: a commercial band pass filter suppresses harmonics

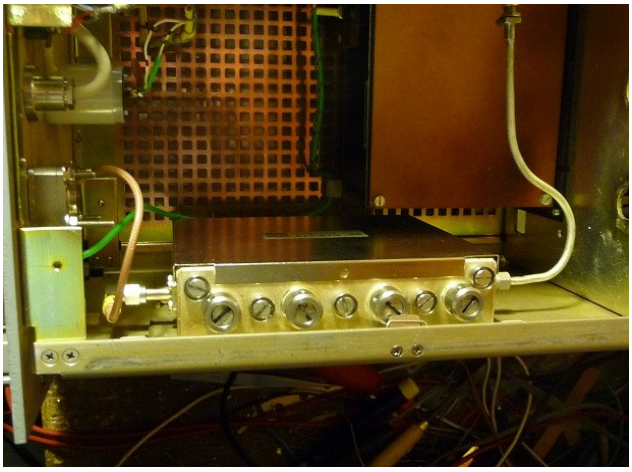


Abbildung 5: filter

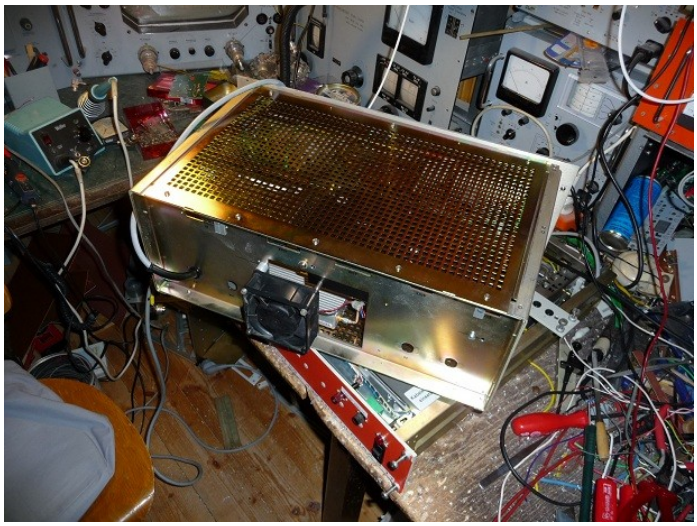


Abbildung 7: if necessary a small blower keeps all components cool

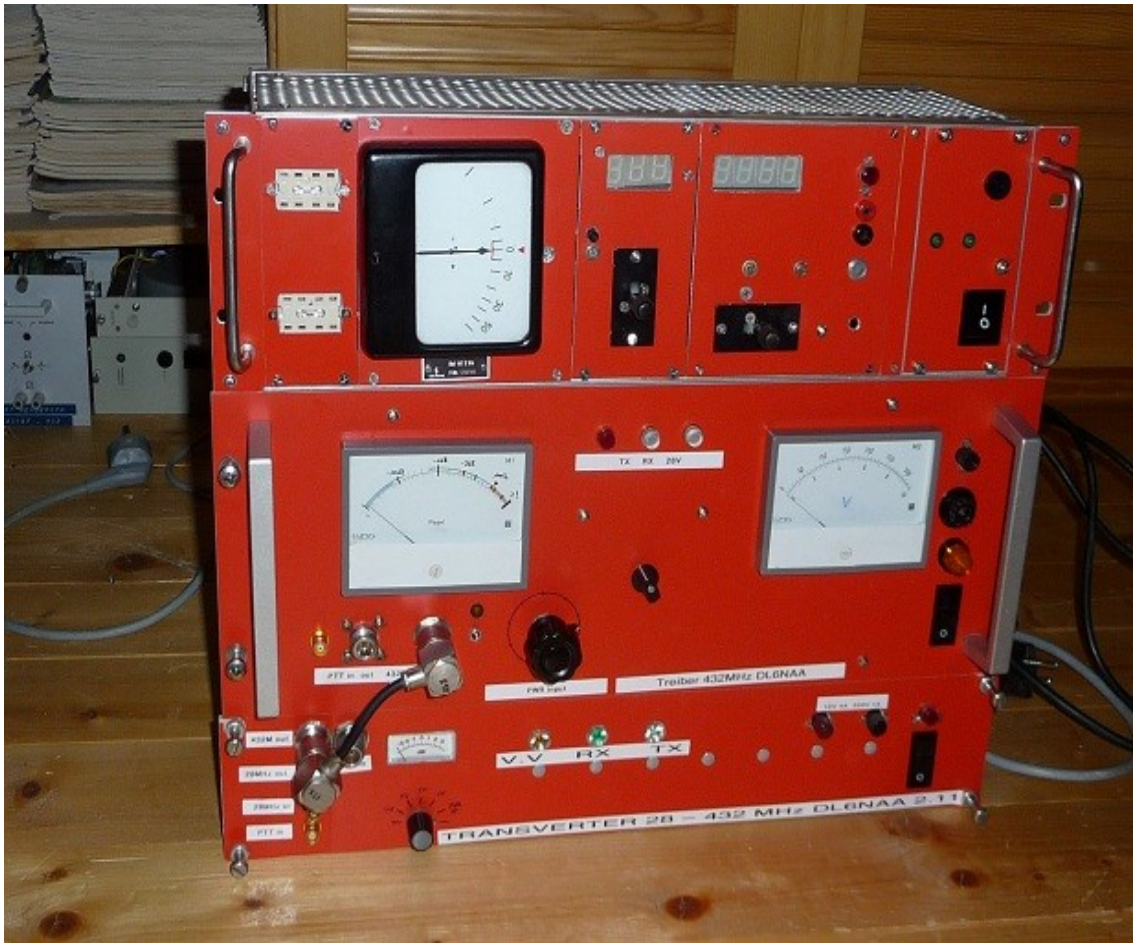


Abbildung 8: the complete "Line" with my new rotator controller for the 10GHz band

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