Noise Comparison between PMSDR 2.1 and PMSDR 2.2 on the 6m-Band

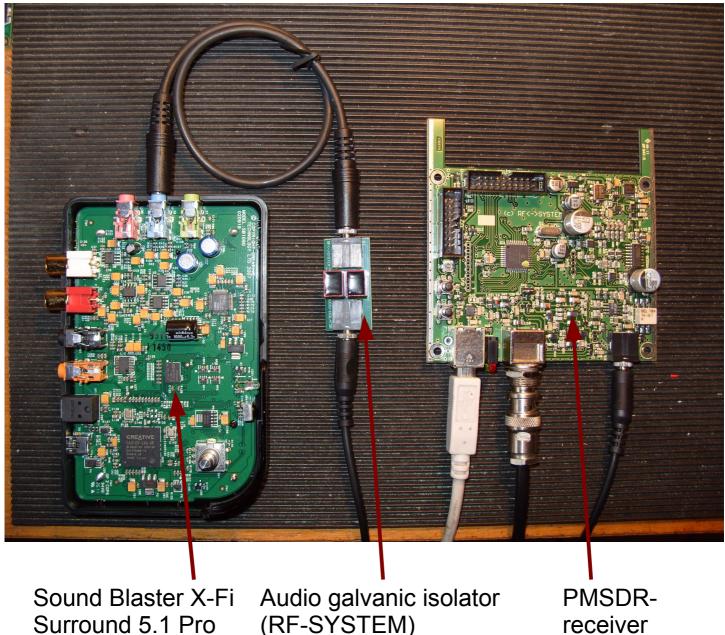
Martin Pernter, IW3AUT 3/4/2012

Test setup and conditions

- Signal generator: HP8640B, out: 54,169 MHz, level=-120dBm
- PC: HP XW4400 Workstation, WinXP SP3

- Software: HDSDR V2.13, left input mode, RBW=11,7Hz vertical scale: 5dB/div from -135dB to 0dB

- Sound card: Sound Blaster X-Fi Surround 5.1 Pro, sampling rate 96kHz / 24bit, Line input volume is set to maximum



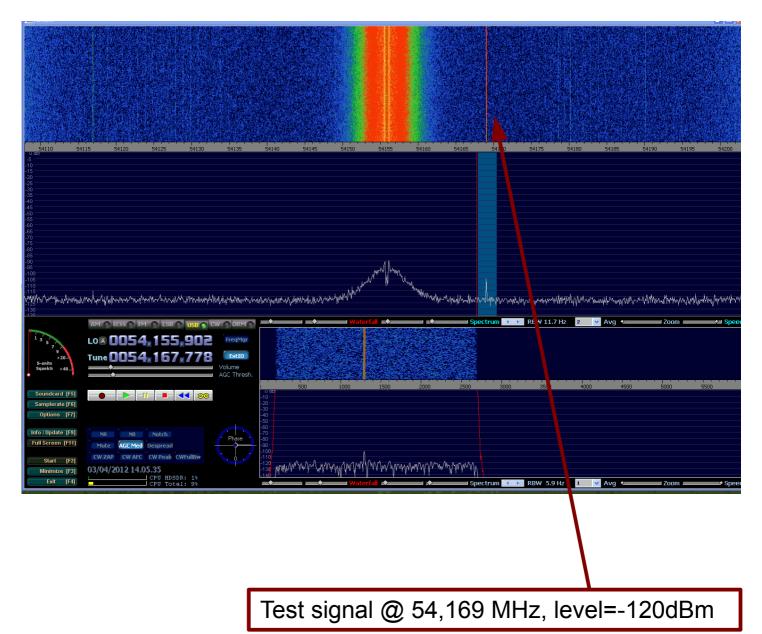
Test setup overview



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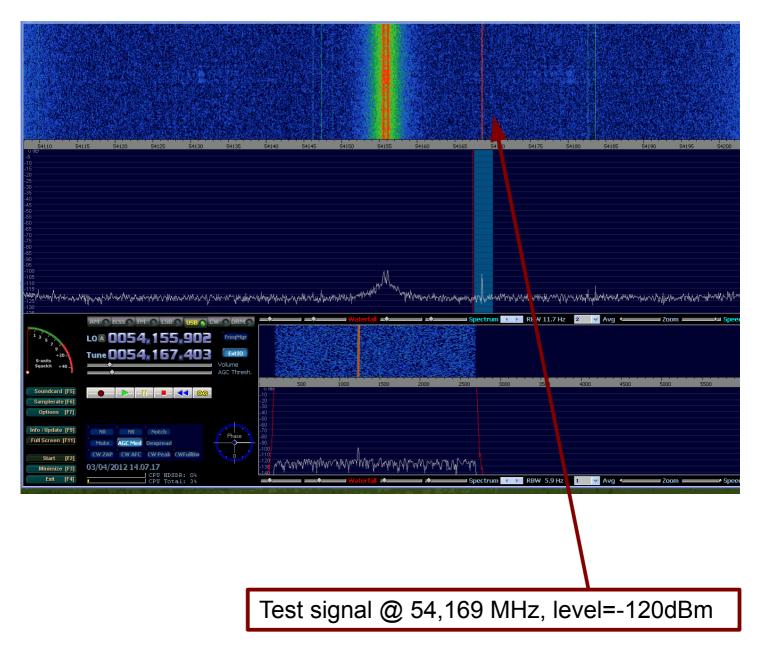
Test results

Test 1: PMSDR 2.1 (with modification)



Test results

Test 2: PMSDR 2.2



The PMSDR 2.2 have a lower noise around the center frequency. The difference between the PMSDR 2.2 and PMSDR 2.1 board are especially noticable at higher bands.