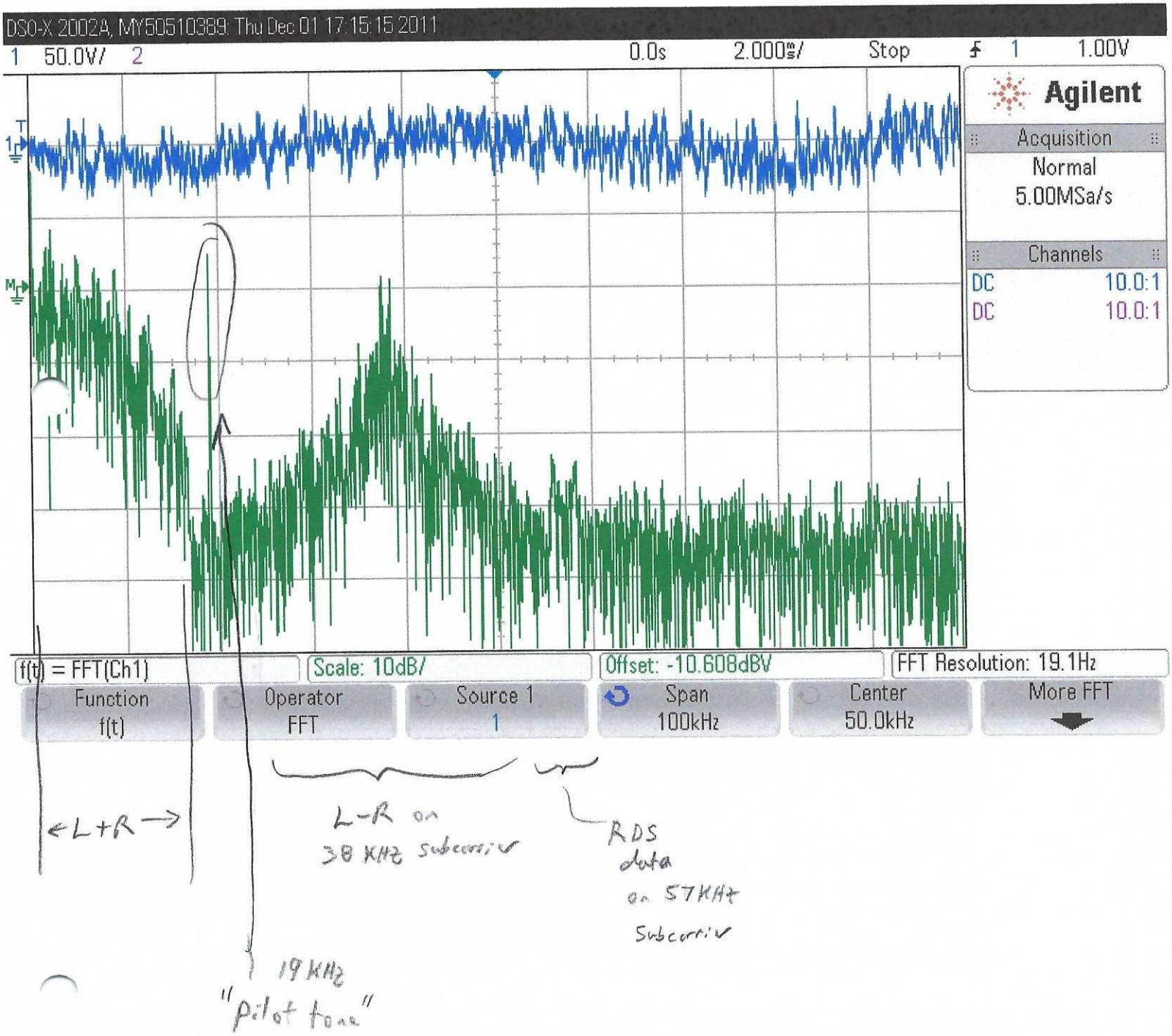
ECE 662 Demod output with de-emphasis cap removed.

Top trace is normal time domain waveform
Bottom trace is FFT spectrum from 0 to 100 KHz



geraki

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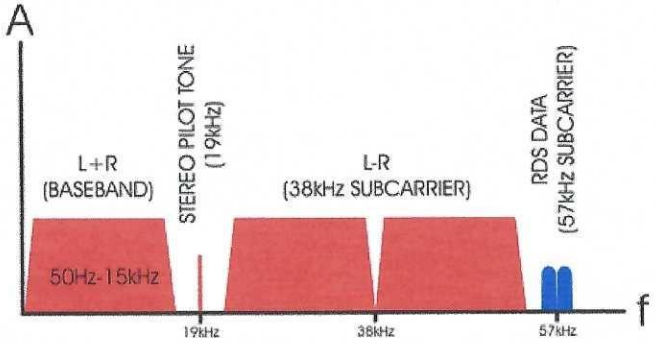
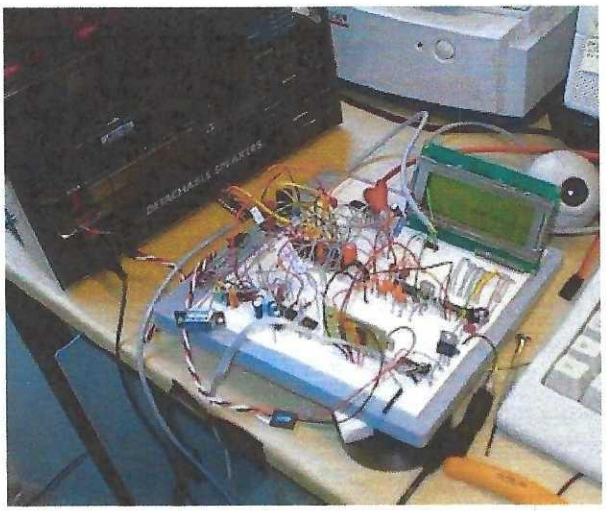
RDS decoder

The RDS function used mostly in car stereos has been around for years to convey information digitally alongside with the broadcast. Information such as the name of the broadcasting station, the program, or current song, are only a few things that can be broadcast with RDS.



The RDS project described below, explains how I built a "homemade" RDS decoder in two different flavours: pc-based and microcontroller based. Credit goes naturally to Andreas Nilsson for writing the the microcontroller code. And on the pc based section (Approach 1), I should thank www.esslinger.de for having their software freely available on their website.

Hope you get inspired and give it a try too! Some experience in electronics is not or recommended, but necessary if you don't want to blow up your stereo...
Below you can see the RDS decoder under its development stage on a "project boar Actually only the right side of the board (including the LCD) belongs to the decoder, t messy stuff with all the cables belongs to another project. =) Note also the stereo on t left used to extract the RDS stream from.



1. FM Mono (cheap, one speaker receiver, can NOT be used here)
2. FM Stereo (This is the most common, and its the one used)