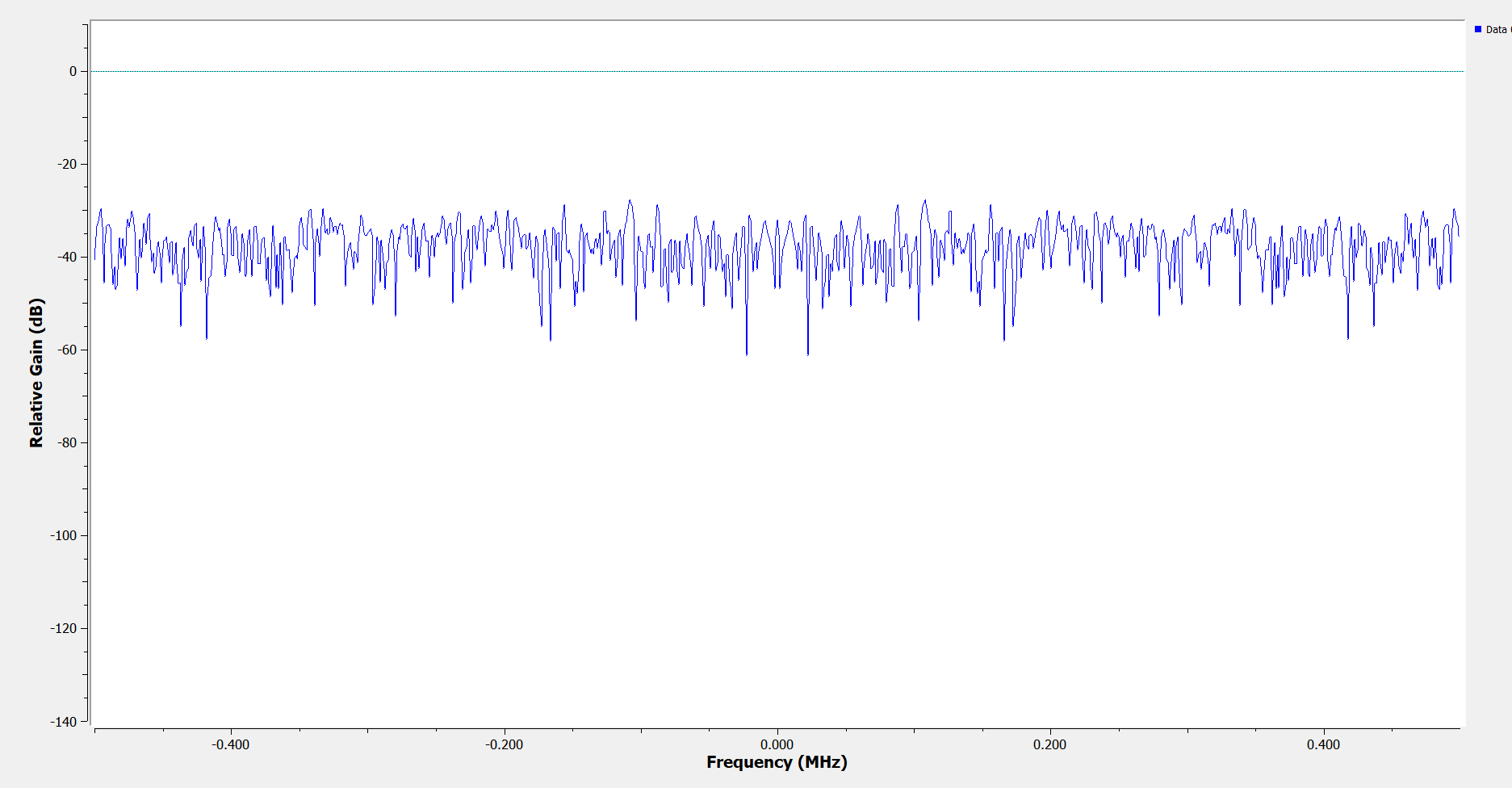
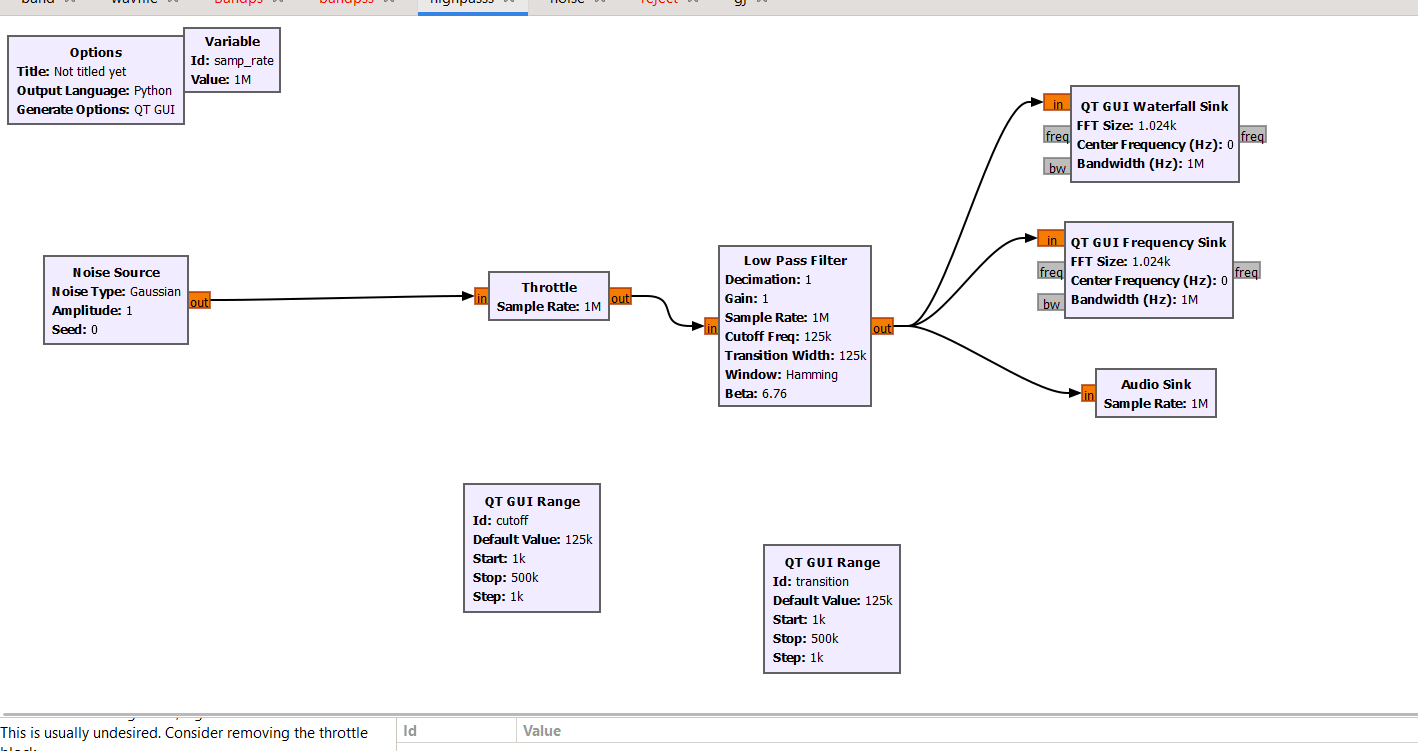
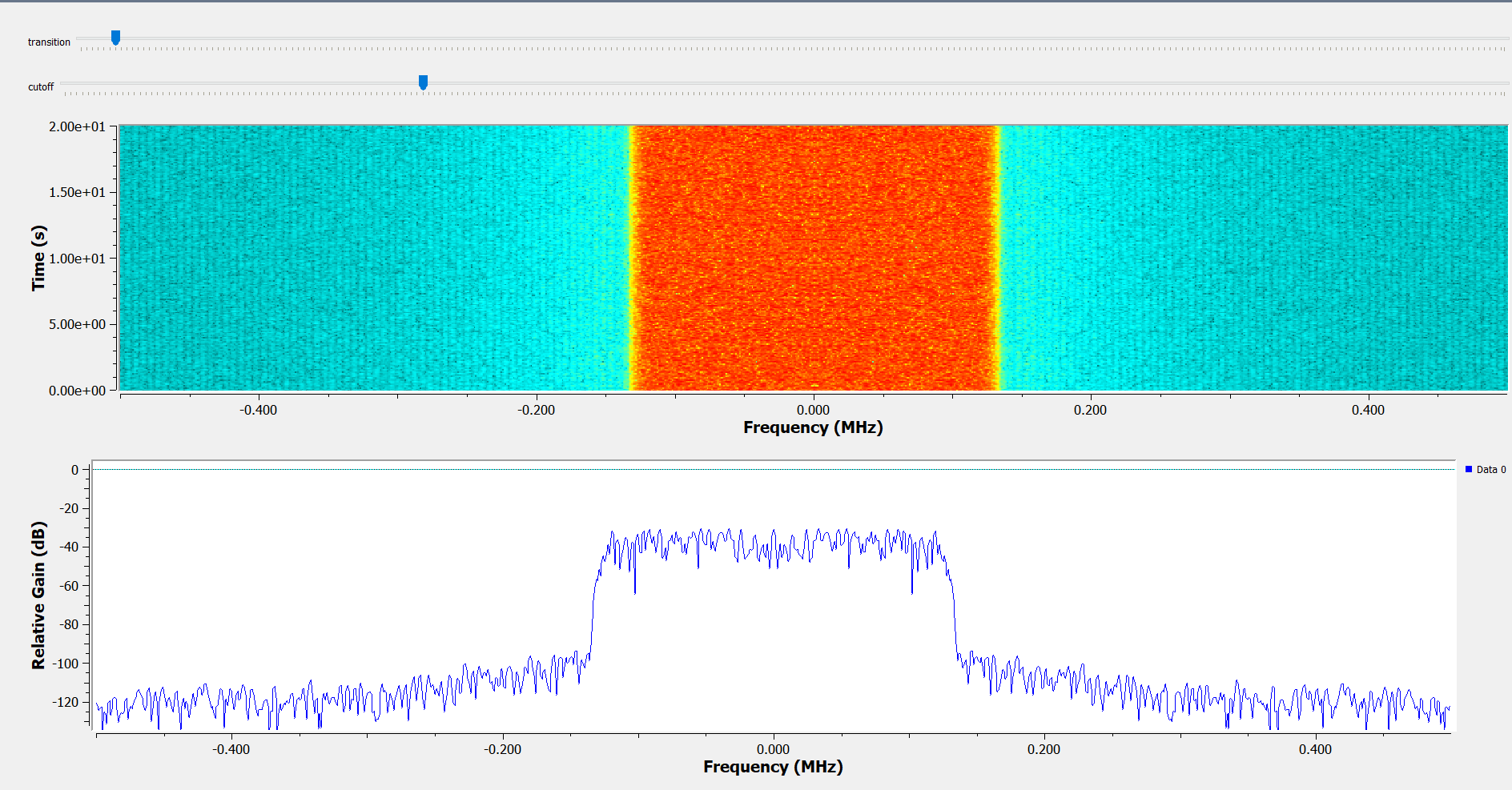
**Aim: Implement different filters in MATLAB and GNU radio:**

**NOISE SOURCE:**

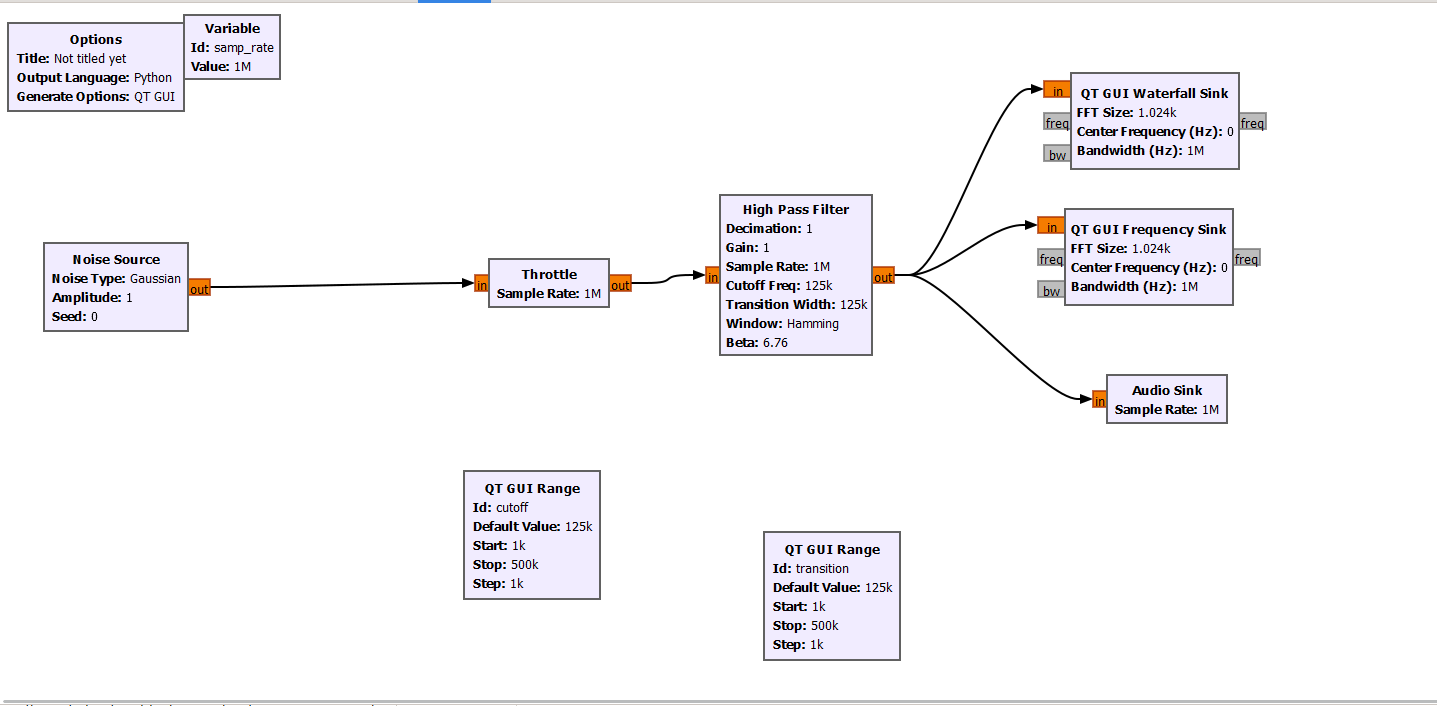


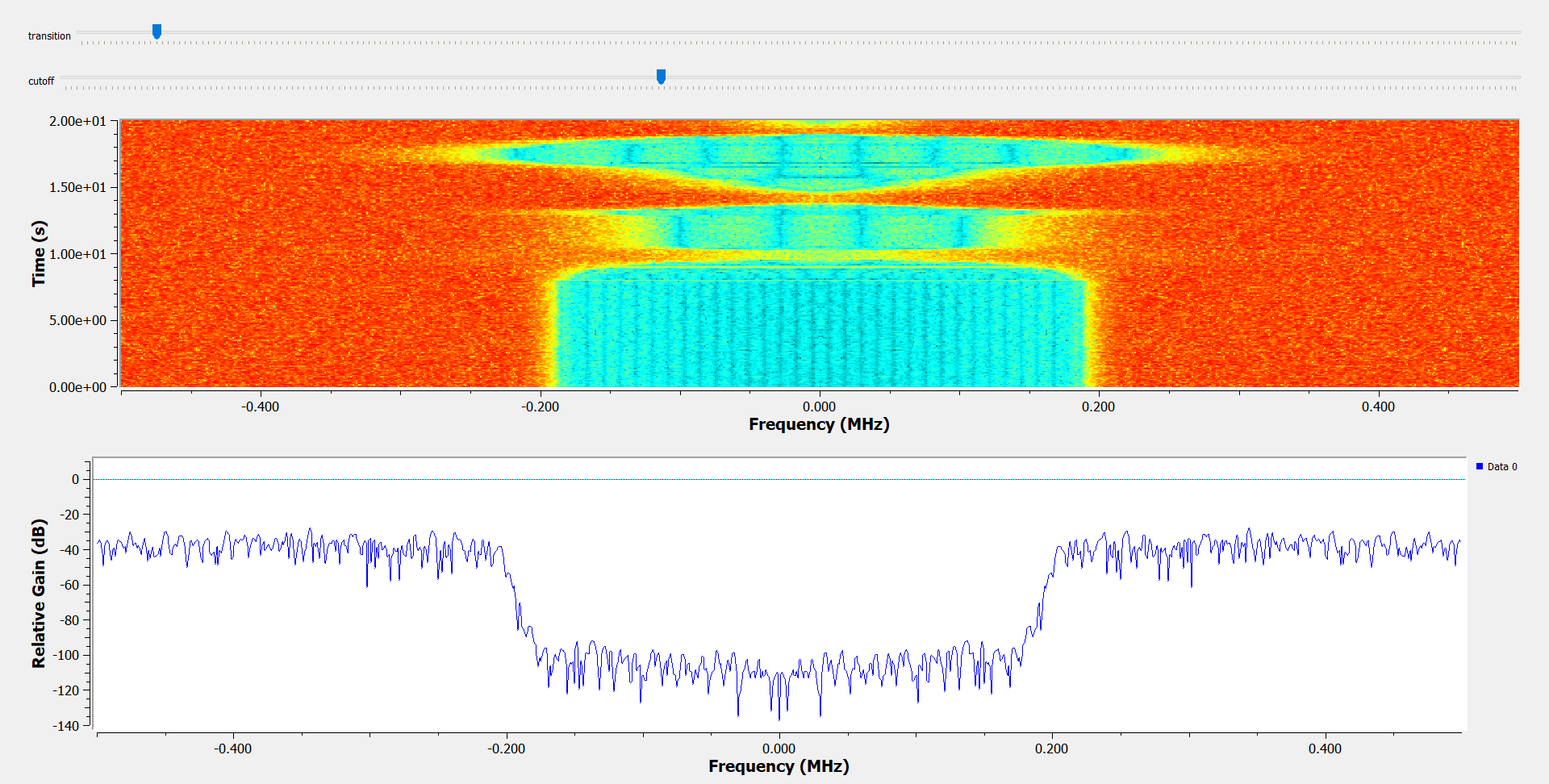
**LOW PASS FILTER:**



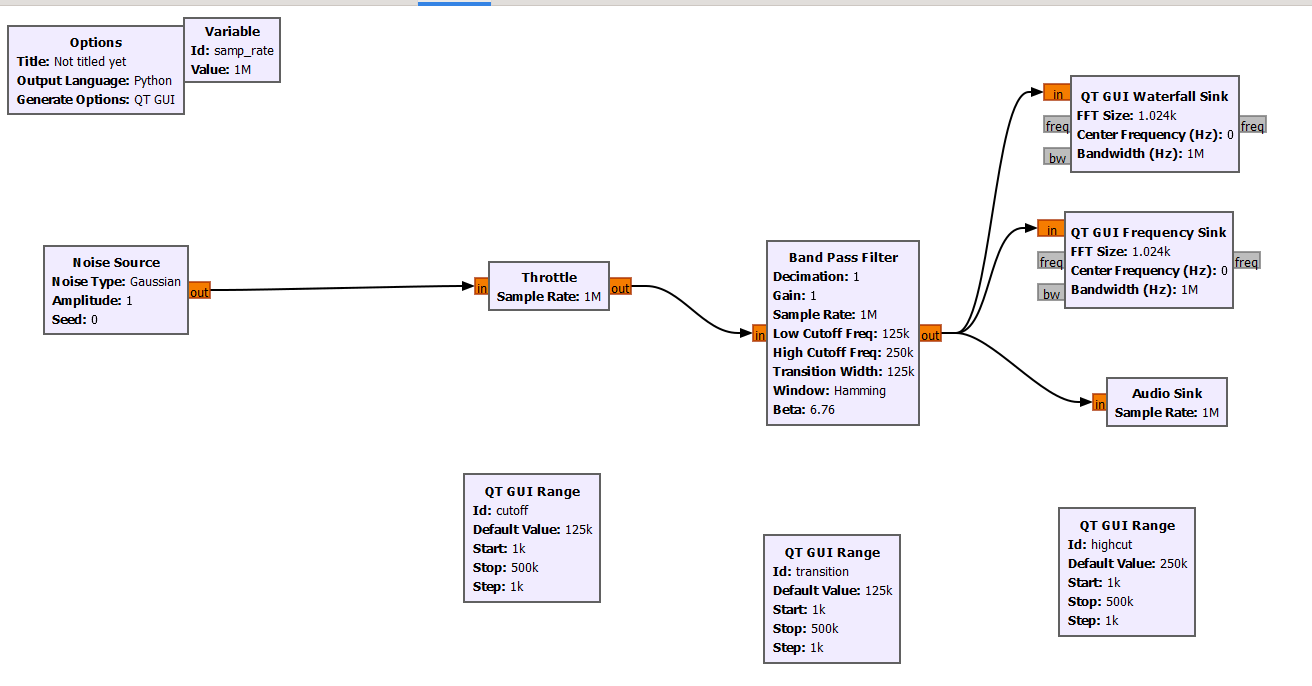


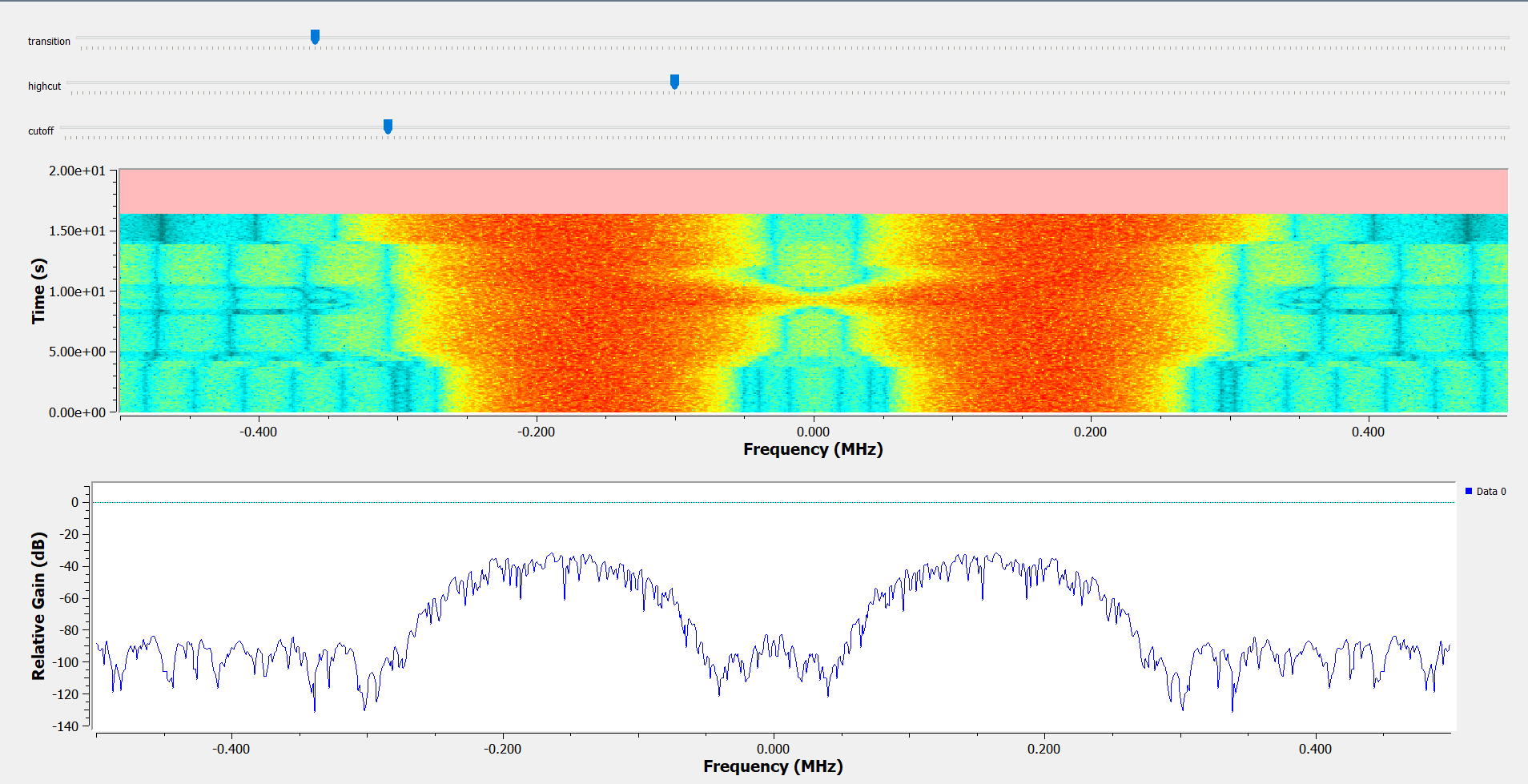
**HIGH PASS FILTER:**



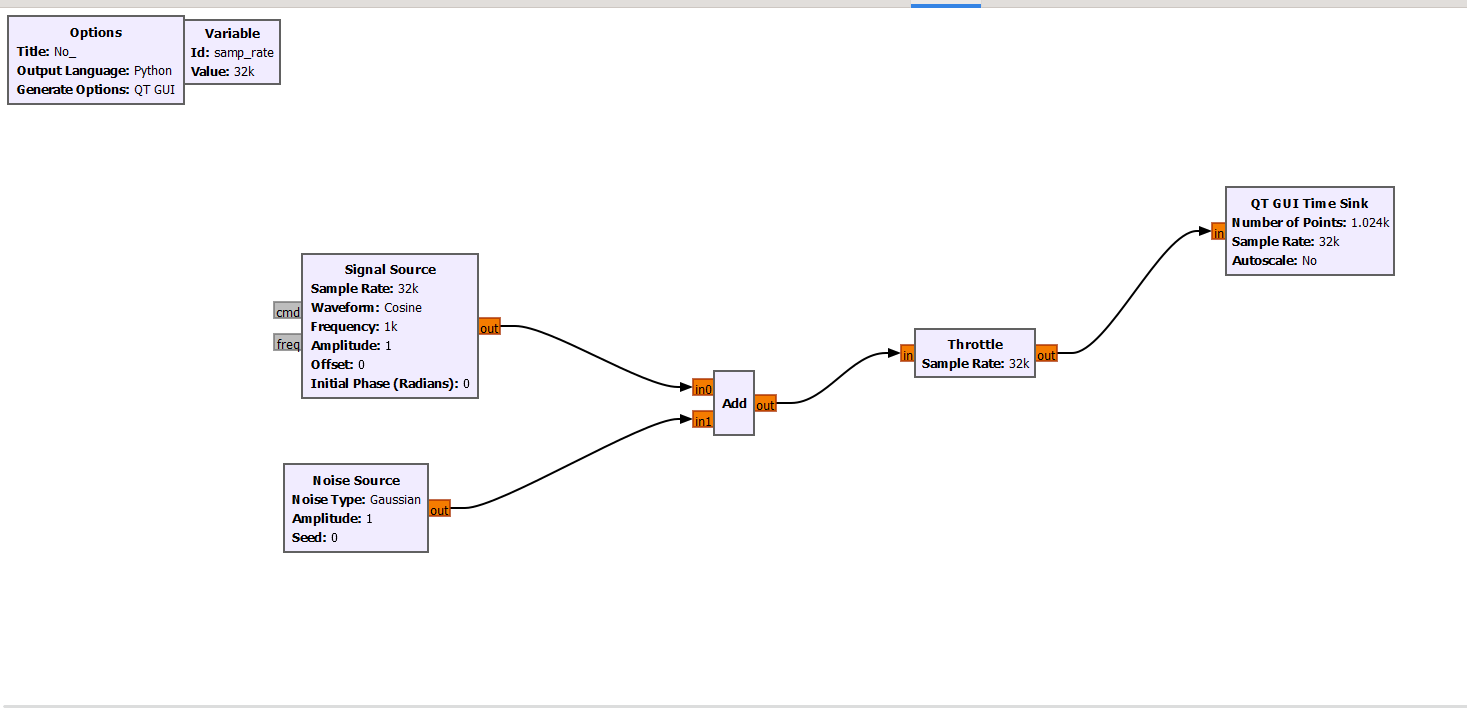


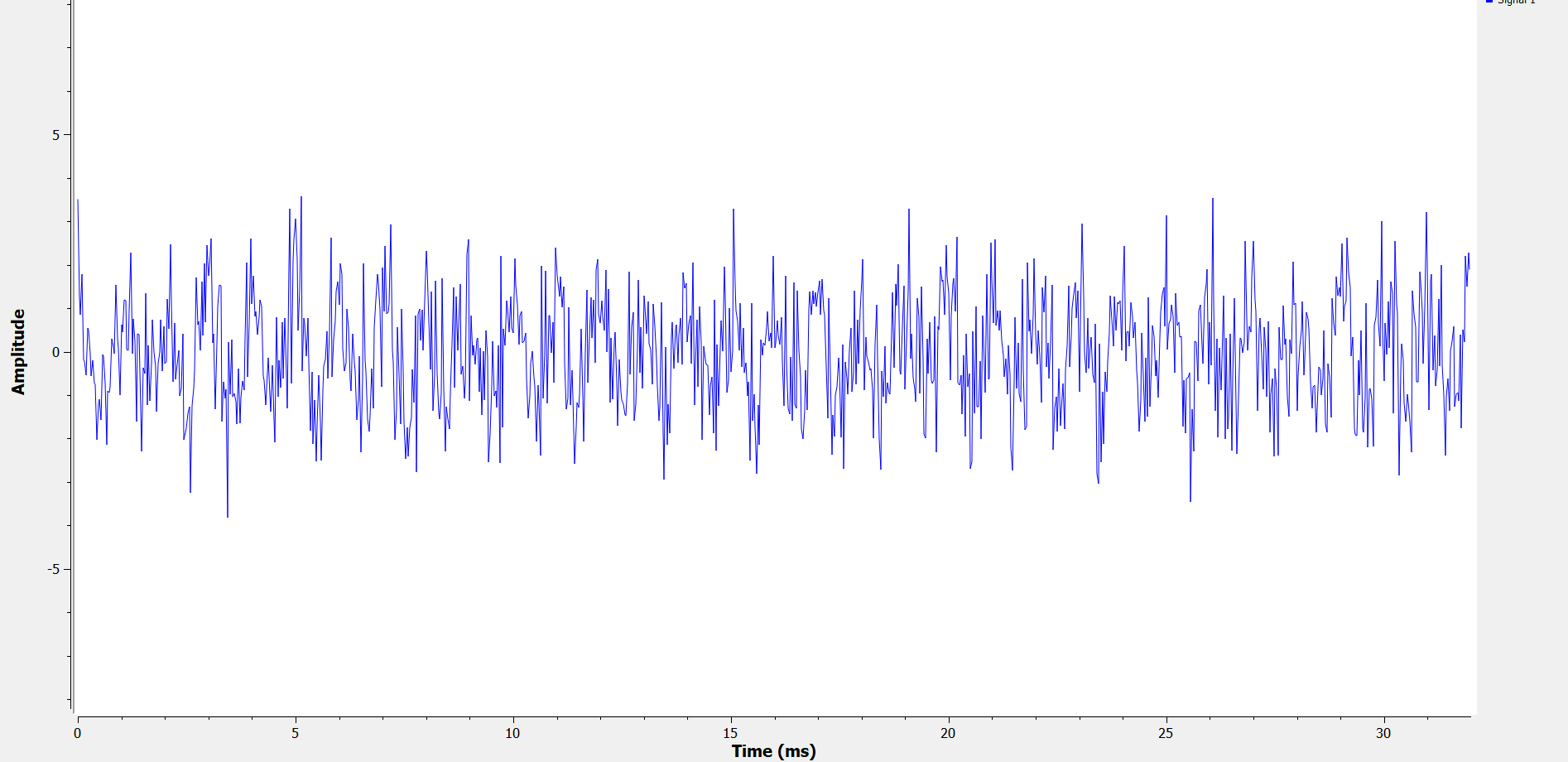
**BAND PASS FILTER:**



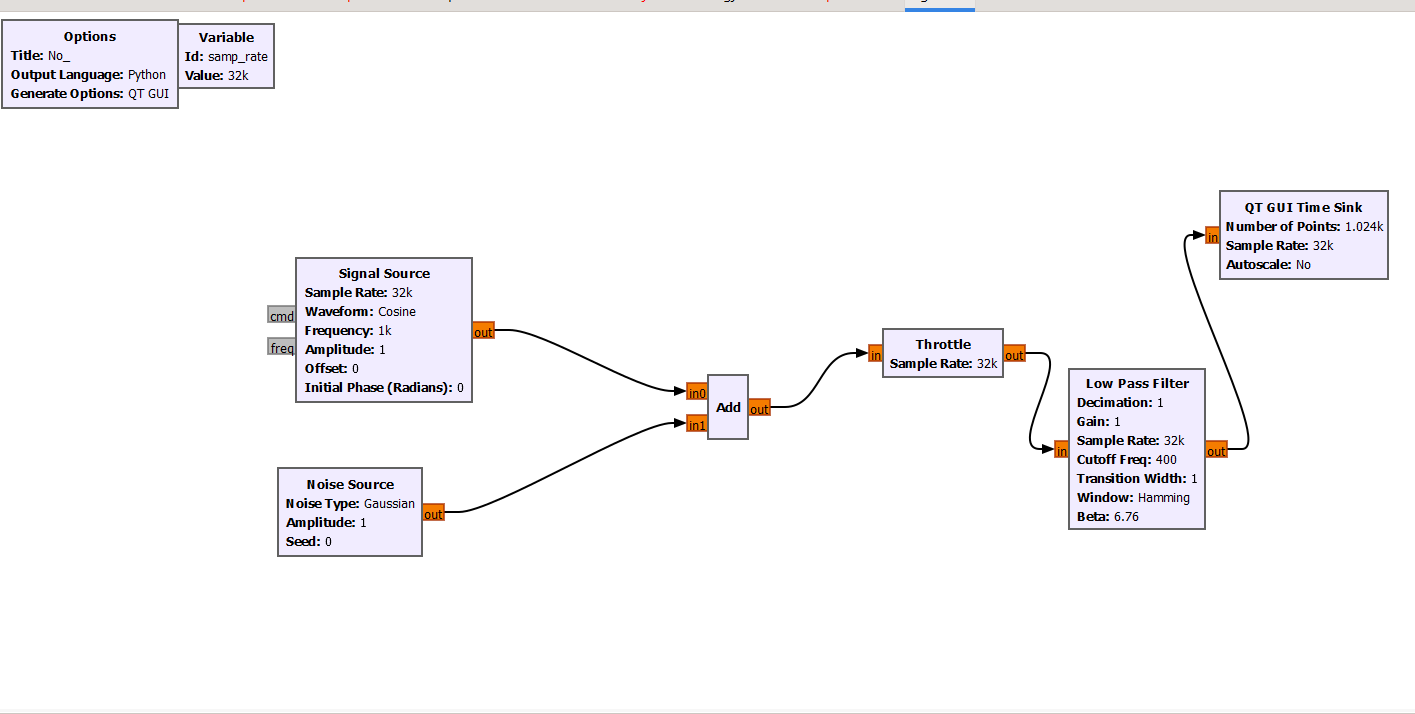


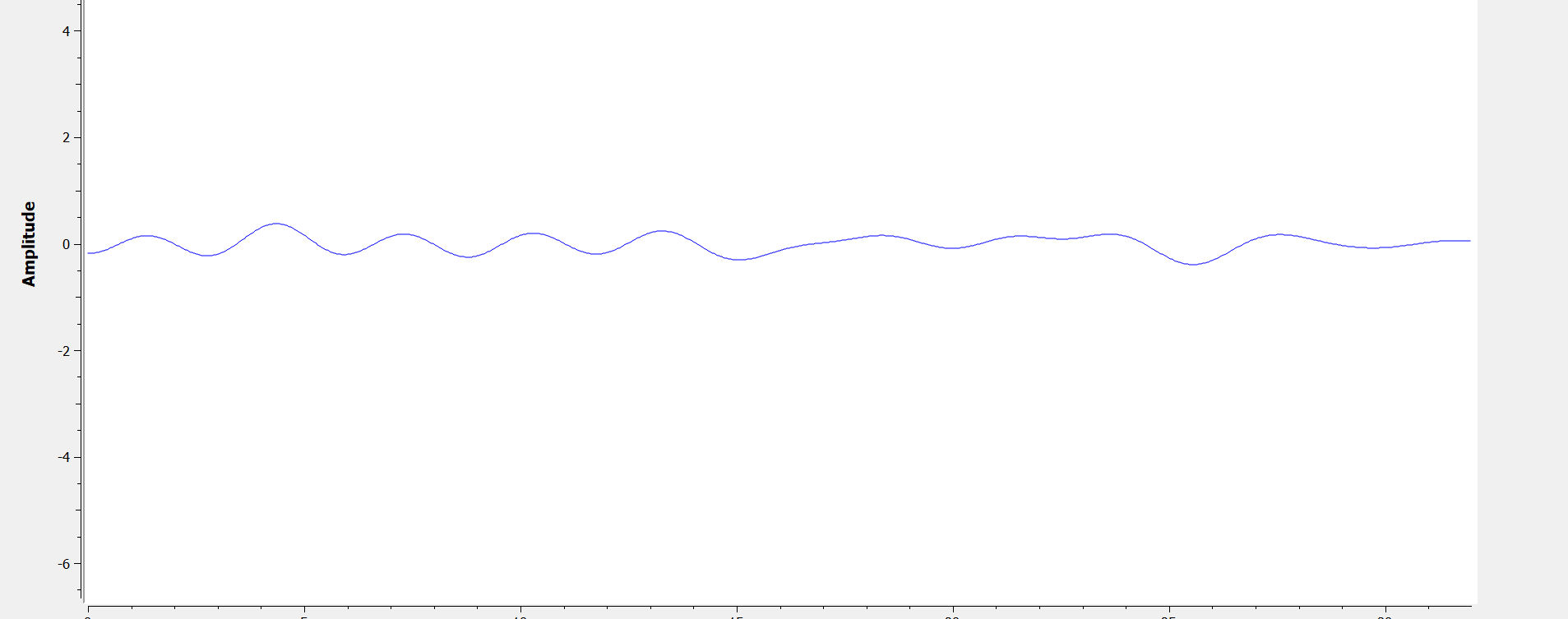
**NOISE REMOVAL USING LOW PASS FILTER:**

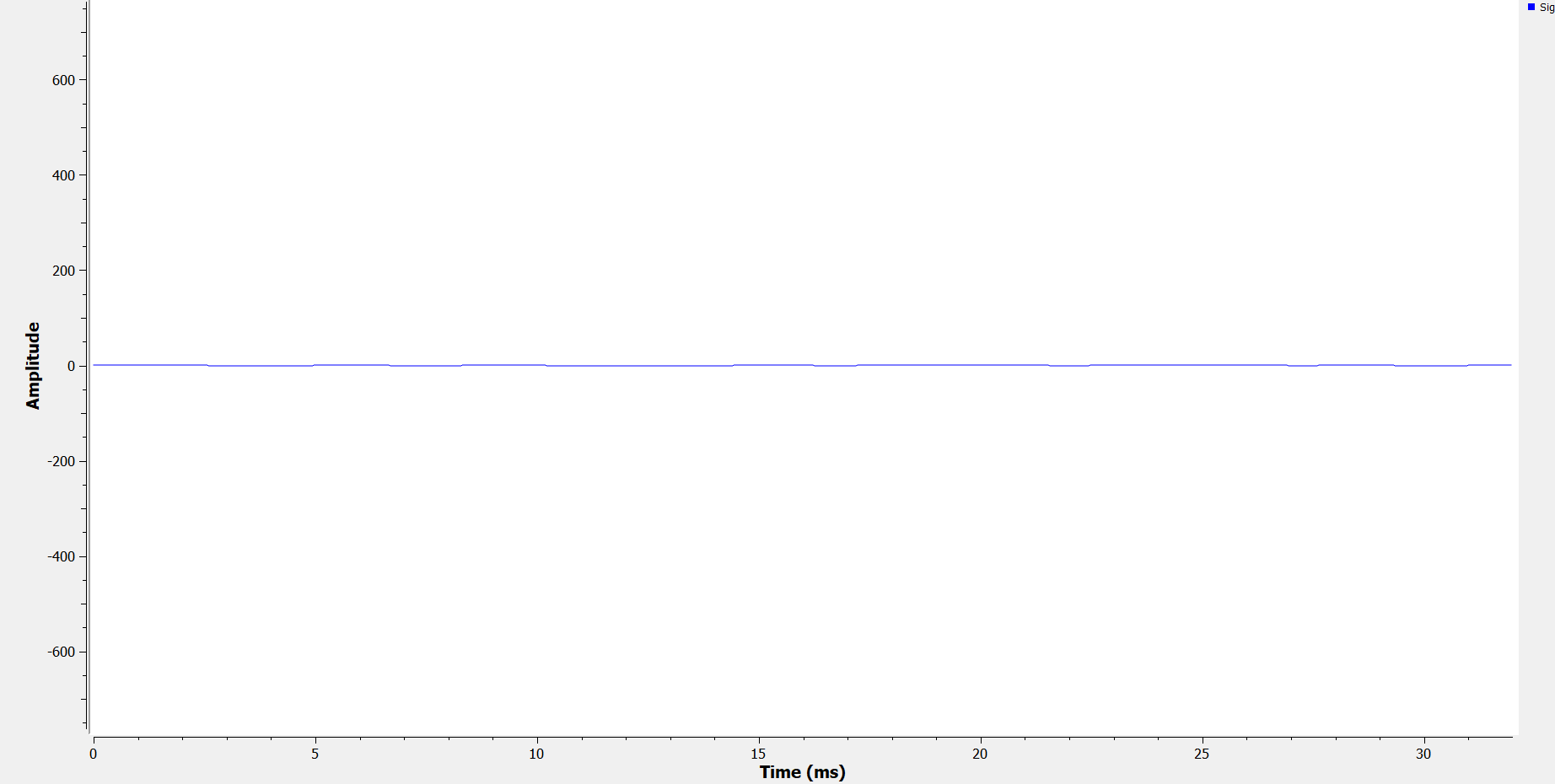




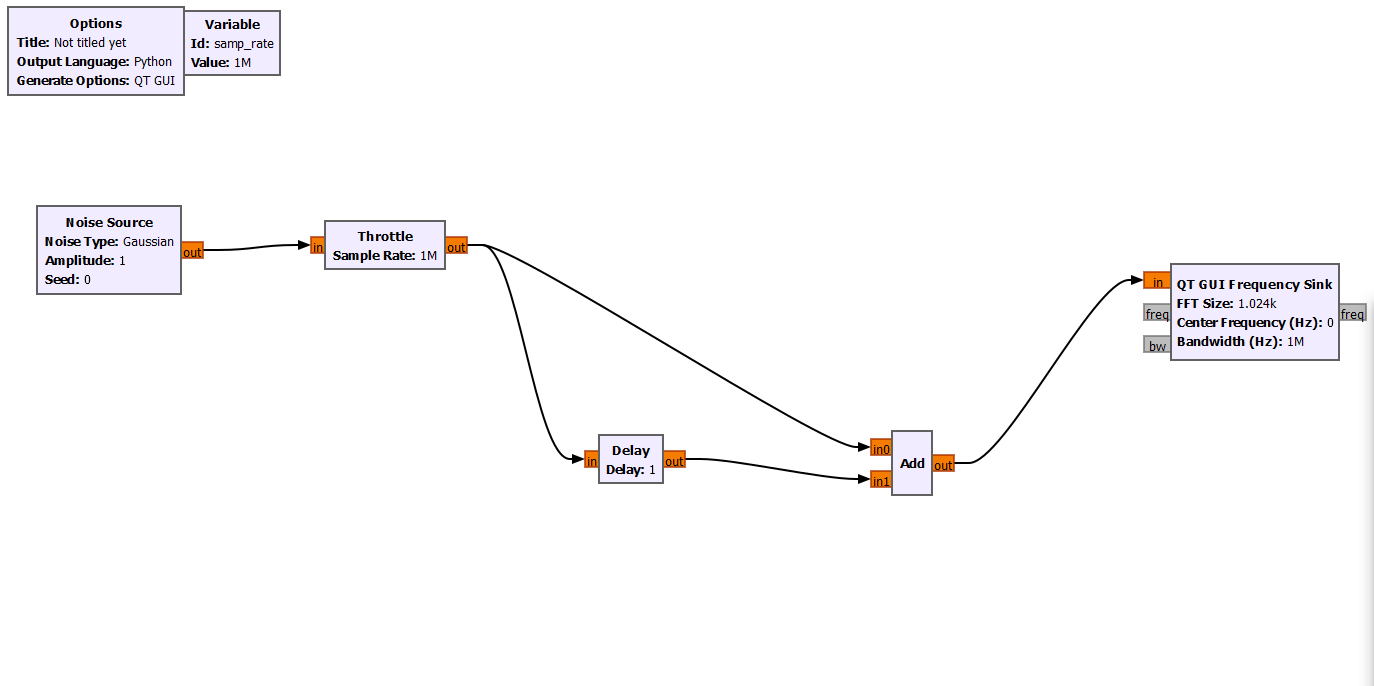
**After introducing low pass filter:**

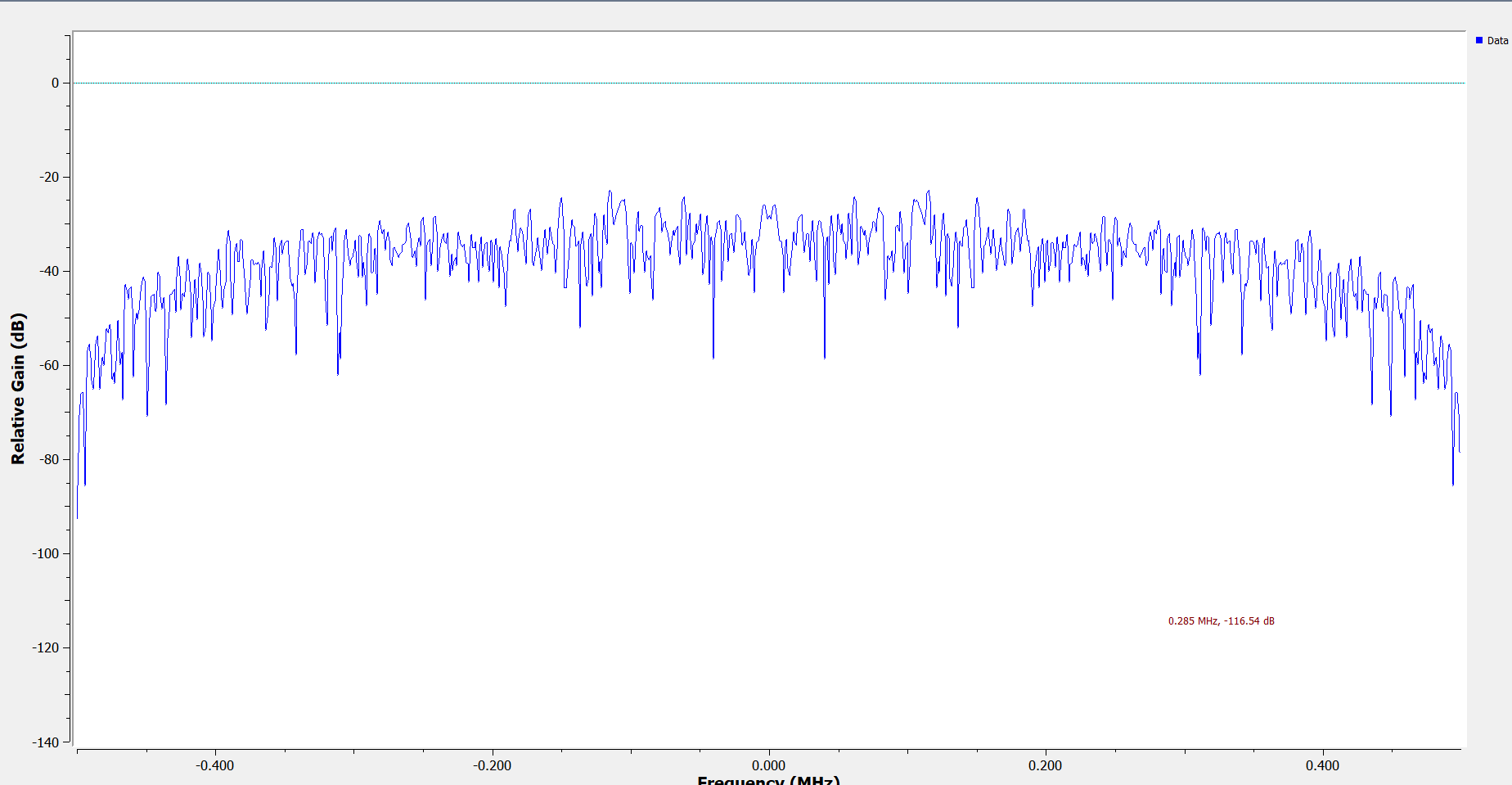


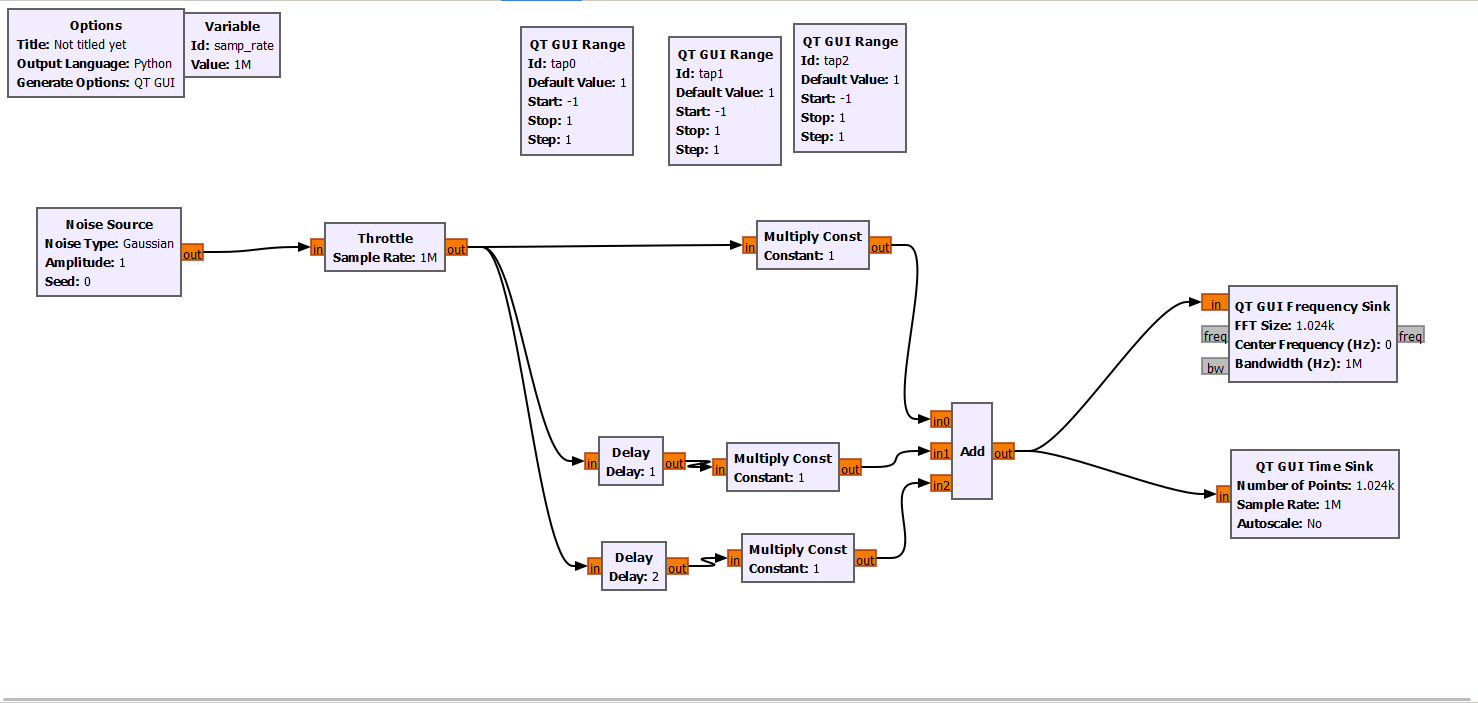


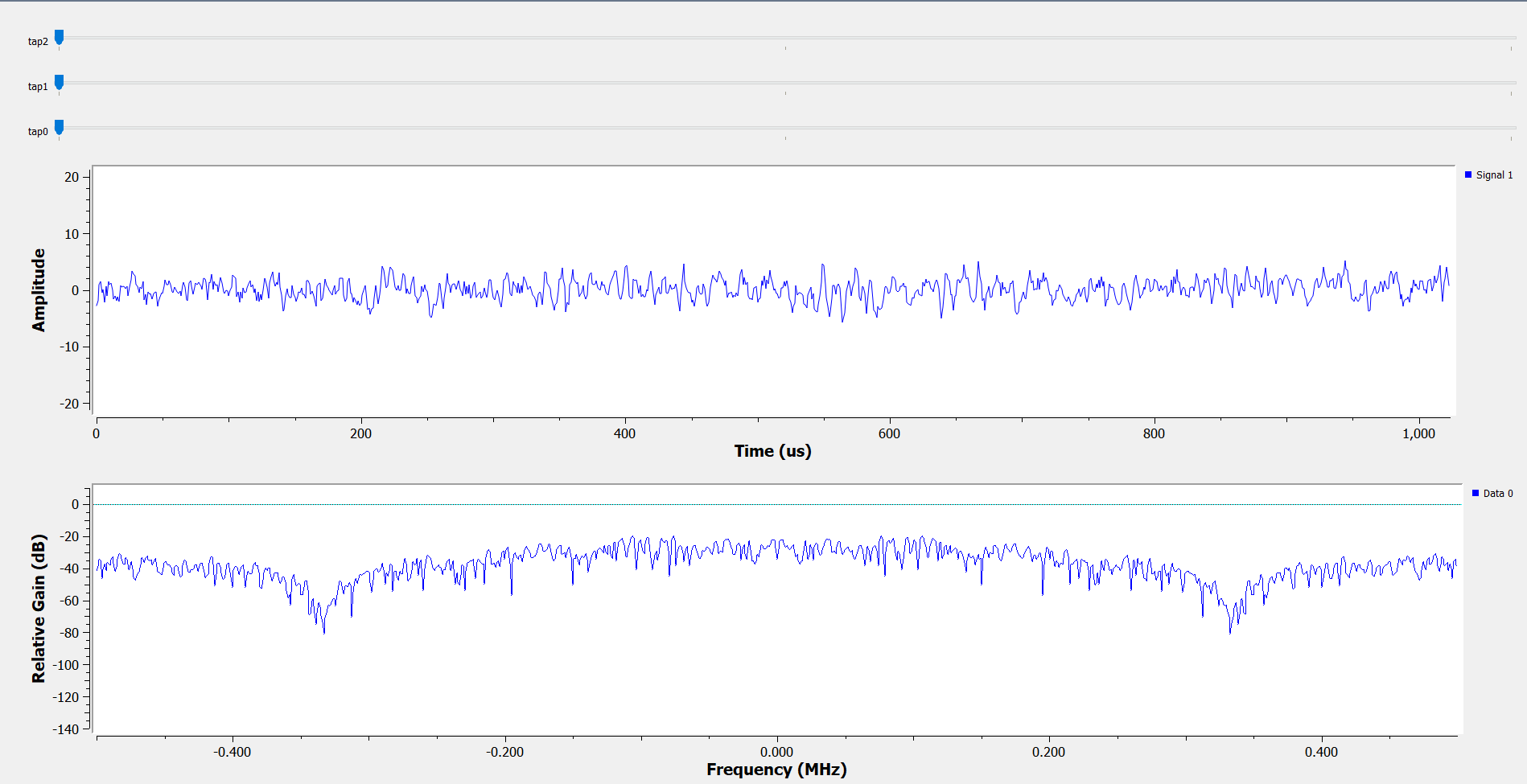


**IMPLEMATION OF FILTERS WITHOUT USING FILTER BLOCKS:**









And by changing the slider values we can design low ,high ,band pass filters

