6.10.2015 C:\FieldFox\201510062309428059\_mosh\_3000\_2 - High pass 10 Hz





6.10.2015 C:\FieldFox\201510062309428059\_mosh\_3000\_2 - High pass 80 Hz



10.6.2015 C:\FieldFox\201510062149290850\_mosh\_3000



5.10.2015

Seem that there are 3 factors for stabilization and measure heat beats:

1) Resonant frequency. (The highest SNR)

2) Impedance matching. (noise return from DUT to NA)

3) High frequency.

Seem that if rising up the IF BW to 1000Hz still can keep stabilization of 0.01dB and get sampling rate ~200Hz.

Programming plan:   
1) Add option to use frequency center and span.

2) Before the measure will start get few important parameters and send them to PC. One of them has to be the sweep time.

3) Need to send a pop question that asks “Are you sure that the current sweep time is correct?”

4) On Matlab side need to write function that read folder and use new data file, calculate the time and the amp/phs from each file combine them together and return the same object as before.

Ideas for the future:

If the theory from today will find correct, may need automatic process that run the following steps:

1. Connect a subject to coil.
2. With 201(?) points run for high frequency to low and get the best frequency to measure.

4.10.2015

Worked all day to measure the heart beats but didn’t succeed to extract significant results

But at the end of the day found that I can measure 1 frequency very fast ~100 samples per sec.

The idea is to measure start=4700.001 stop=4700.002

Need to write new matlab function that can read s2p file.

Example we can find at C:\FieldFox\201510041618086540\_mosh\_4700









3.10.2015

Amplitude and phase of connected cable.





2.10.2015

Trying a manipulation to reduce the noise.

Measure at 1868-9 MHz 10 freqs. Divide each with the first(?) cell. Then average them together. Then compute 8th degree polynomial eqation to flat the function.

The result should be the noise



2.10.2015





1.10.2015

Need to understand the measurements variance.

BNC cable to BNC connectors



This is for example freq #56

Very weird – seem the same wit/without normalization.

STD is about 0.01 dB!



Need to measure again with stop at 6000 MHz instead od 600Mhz