

Measurements

March 10, 2022

1 PARAMETERS

Sample name: ES.PVDF.002

Duration of measurements: 4.29 [s]

Load resistance: 2.00×10^4 [Ohms]

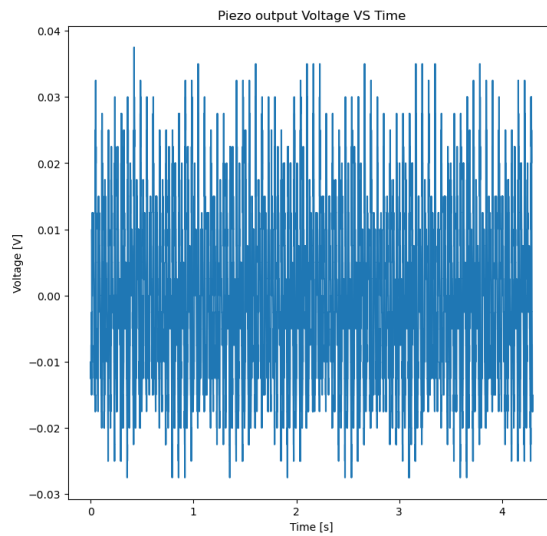
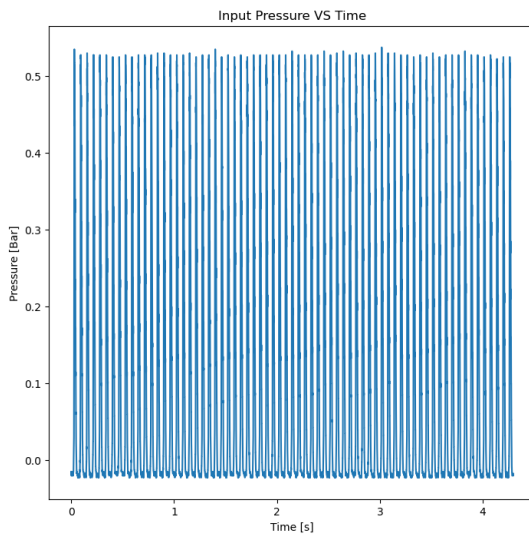
Circuit resistance: 2.00×10^{-1} [Ohms]

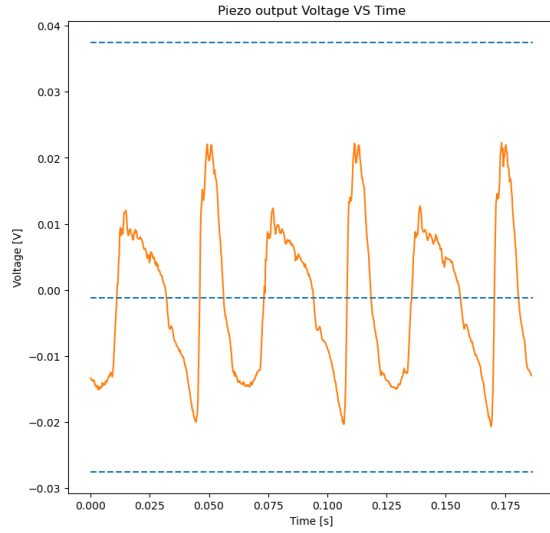
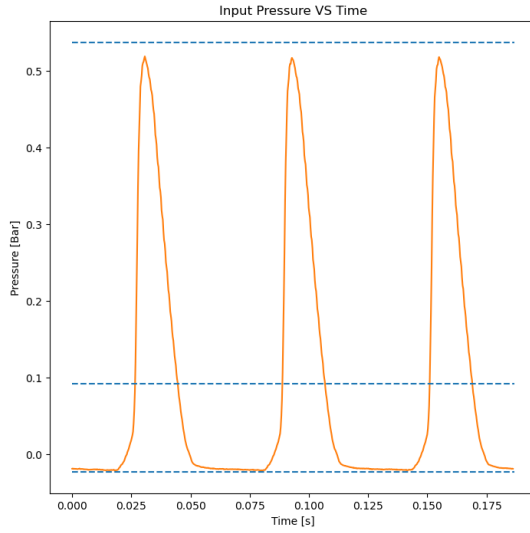
Number of periods displayed: 3

Maximum frequency for analysis: 200

2 PRESSURE AND VOLTAGE MEASUREMENTS

The input frequency is: 16.07 Hz

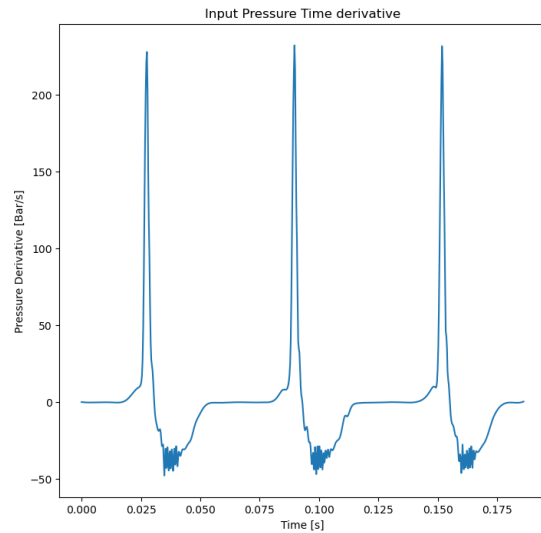
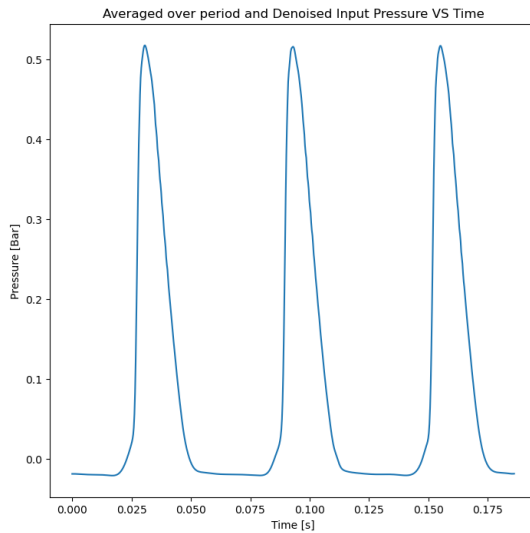




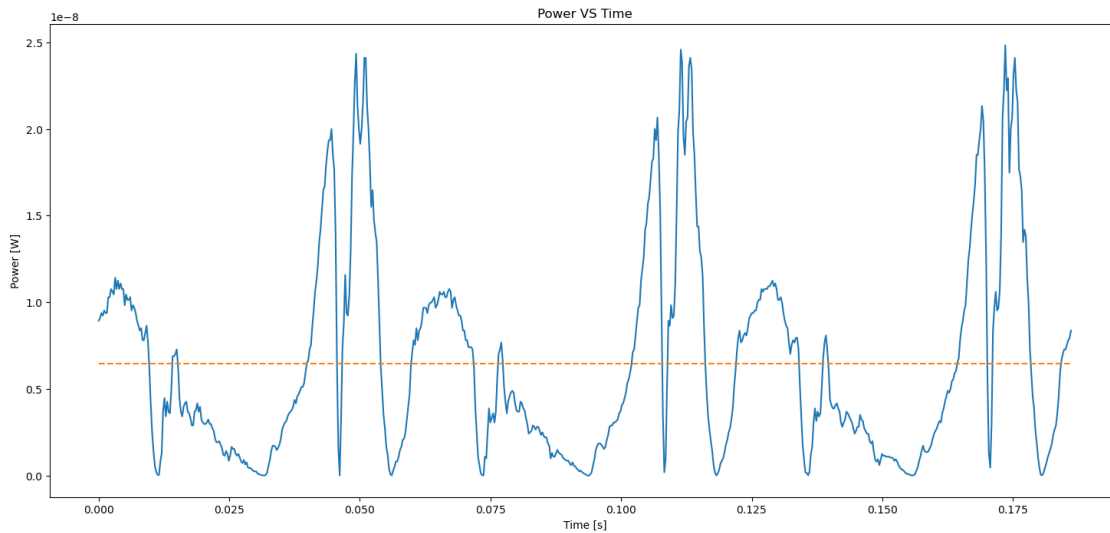
Max pressure: 0.54 [Bar]
 Min pressure: -0.02 [Bar]
 Peak to peak pressure: 0.56 [Bar]
 Mean pressure: 0.09 [Bar]

Max voltage: 0.04 [V]
 Min voltage: -0.03 [V]
 Peak to peak voltage: 0.07 [V]
 Mean voltage: -0.00 [V]

3 PRESSURE DERIVATIVE



4 POWER

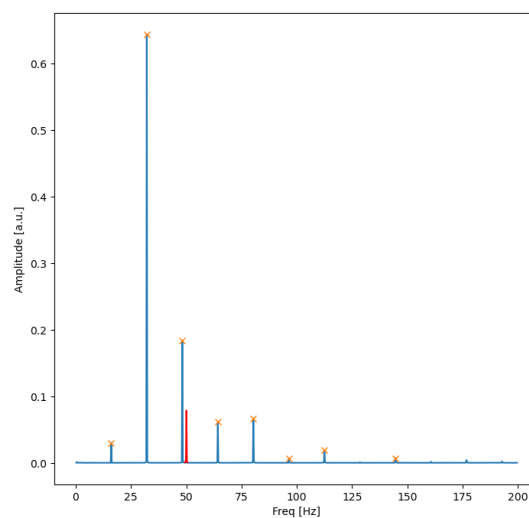
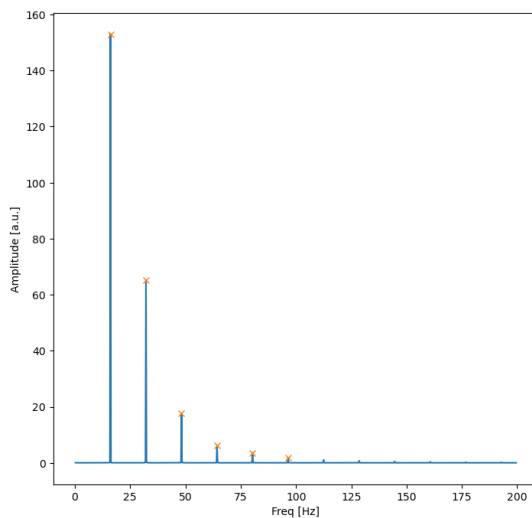


Mean power: 6.45×10^{-9} [W]

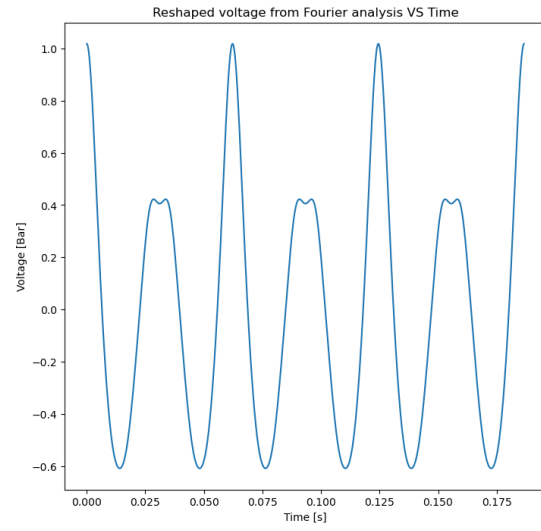
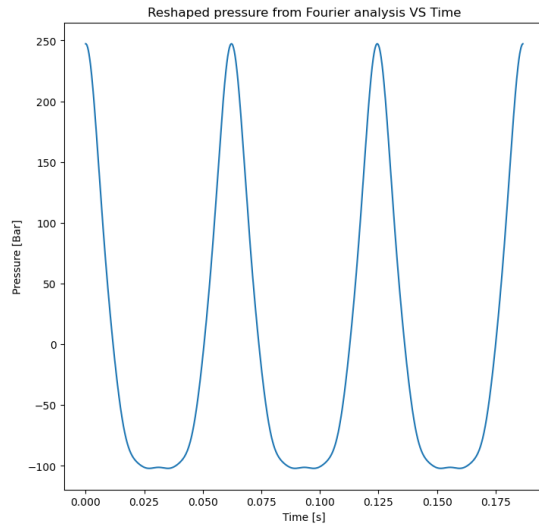
5 FREQUENCY ANALYSIS

5.1 Perform Fourier transform

```
/Users/eliottsarrey/opt/anaconda3/lib/python3.8/site-  
packages/numpy/core/_asarray.py:102: ComplexWarning: Casting complex values to  
real discards the imaginary part  
return array(a, dtype, copy=False, order=order)
```



5.2 Recreate signals



6 MODEL CHECK UP