

Measurements

March 11, 2022

1 PARAMETERS

Sample name: ES.PVDF.001

Duration of measurements: 8.59 [s]

Load resistance: 2.00×10^4 [Ohms]

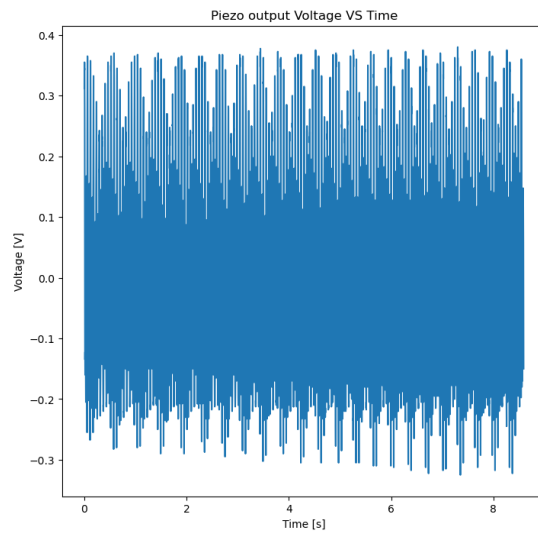
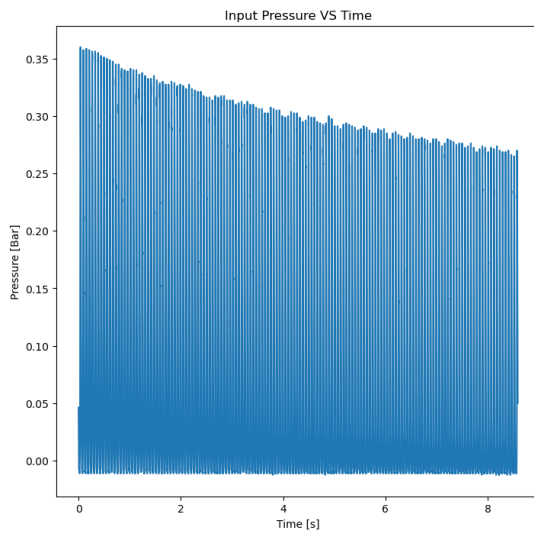
Circuit resistance: 2.00×10^{-1} [Ohms]

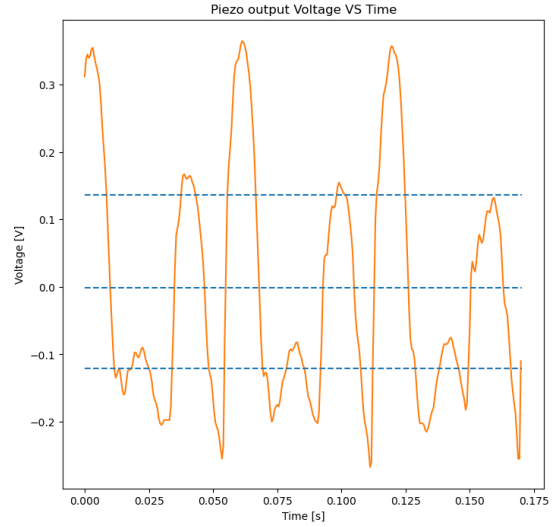
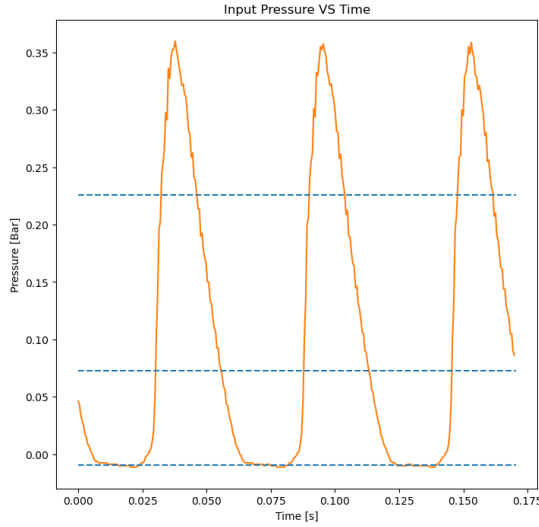
Number of periods displayed: 3

Maximum frequency for analysis: 200

2 PRESSURE AND VOLTAGE MEASUREMENTS

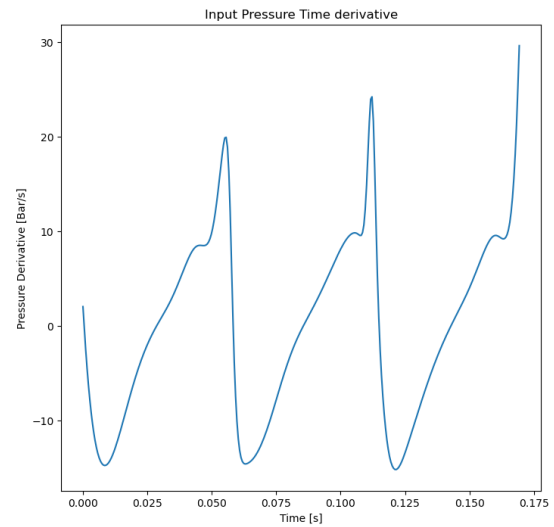
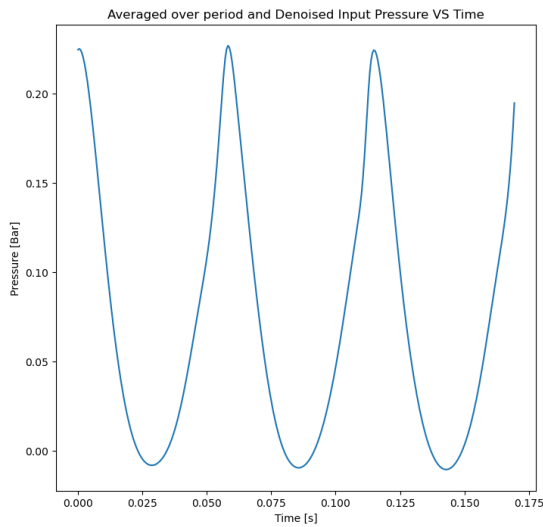
The input frequency is: 17.58 Hz



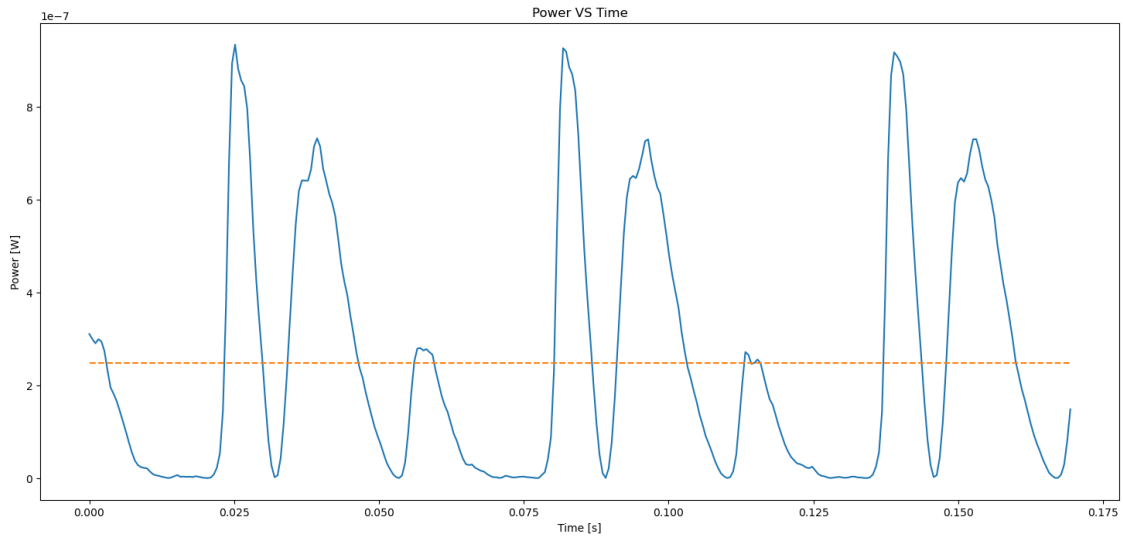


Max pressure: 0.36 [Bar]
 Min pressure: -0.01 [Bar]
 Peak to peak pressure: 0.37 [Bar]
 Mean pressure: 0.07 [Bar]
 Max voltage: 0.38 [V]
 Min voltage: -0.33 [V]
 Peak to peak voltage: 0.71 [V]
 Mean voltage: -0.00 [V]

3 PRESSURE DERIVATIVE



4 POWER



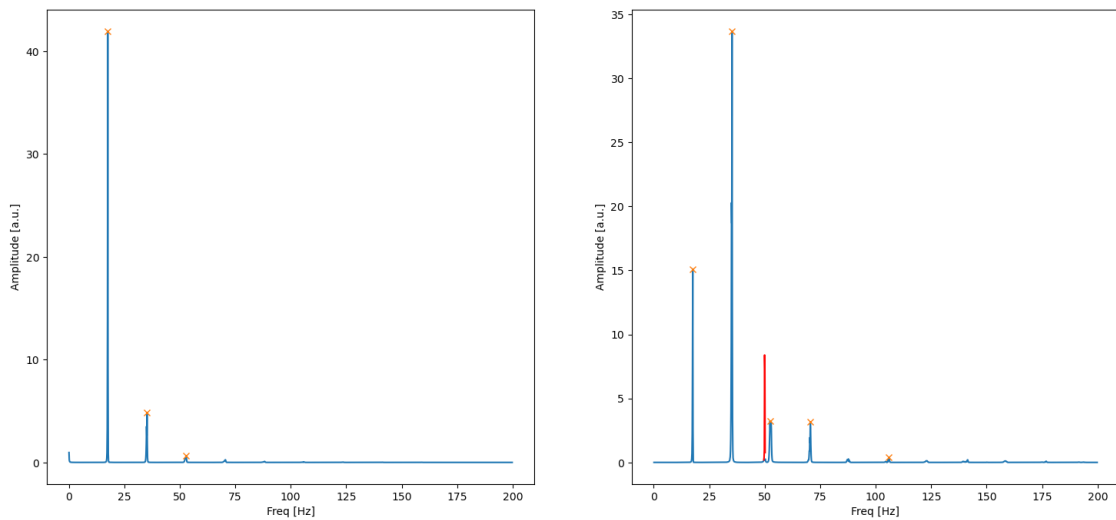
Mean power: $2.48e-07$ [W]

5 FREQUENCY ANALYSIS

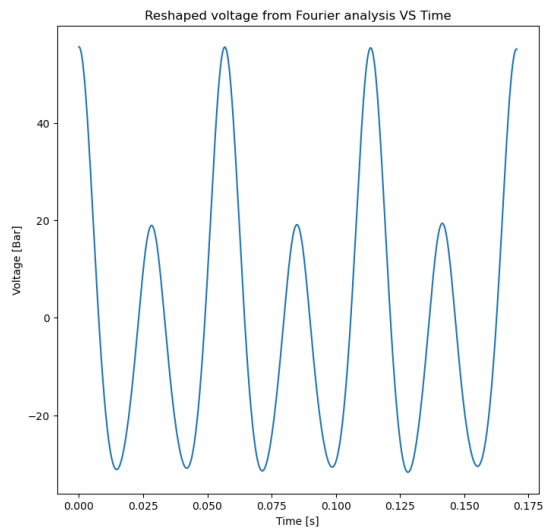
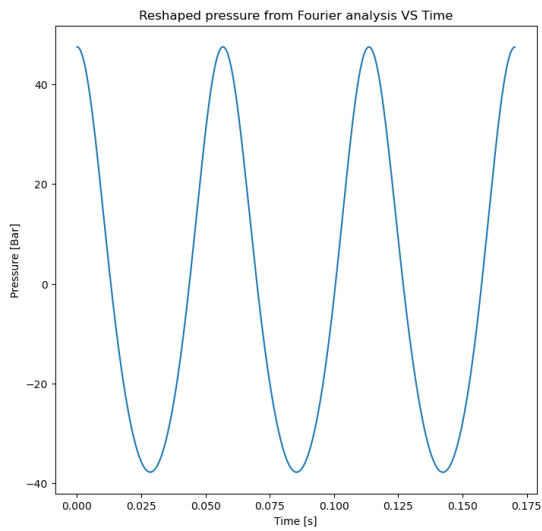
5.1 Perform Fourier transform

/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

